

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

| F.A.P. RTE. | SECTION | COUNTY    | TOTAL SHEETS       | SHEET NO. |
|-------------|---------|-----------|--------------------|-----------|
| 75          | 2B-1    | CHRISTIAN | 42                 | 1         |
|             |         | ILLINOIS  | CONTRACT NO. 72994 |           |

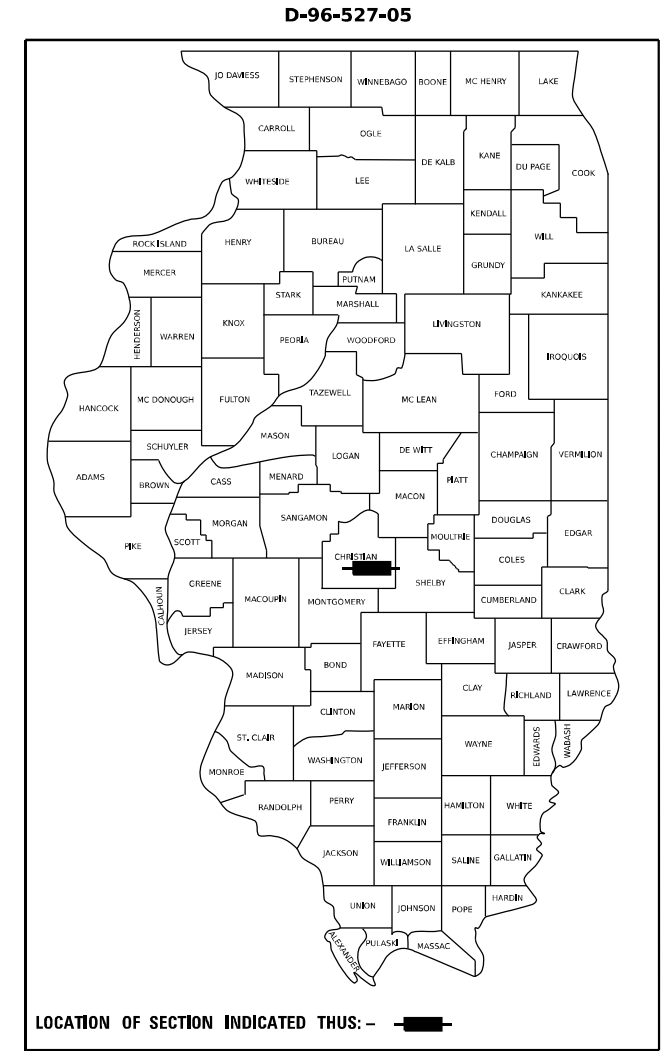
FOR INDEX OF SHEETS, SEE SHEET NO. 2

FOR LIST OF HIGHWAY STANDARDS, SEE SHEET NO. 2

# PROPOSED HIGHWAY PLANS

FAP ROUTE 75 (IL 29)  
SECTION 2B-1  
PROJECT NHPP-EECC(722)  
BRIDGE REPLACEMENT  
CHRISTIAN COUNTY

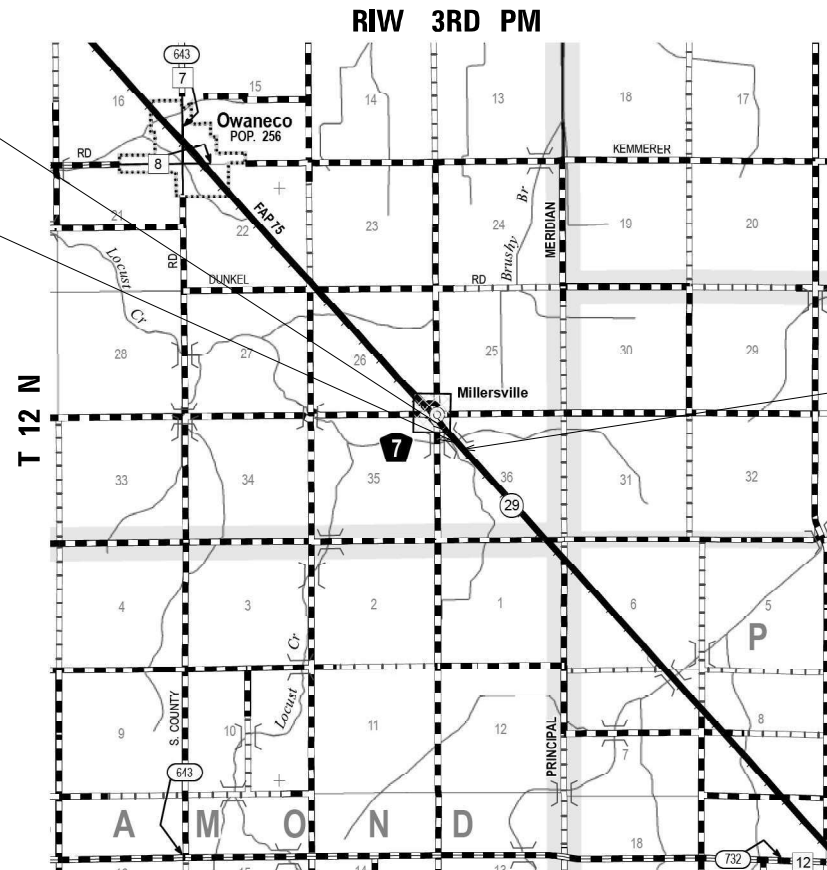
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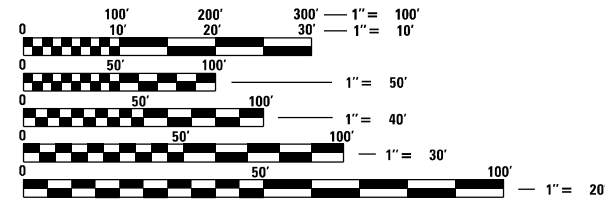
BEGIN IMPROVEMENT  
STA. 530 + 00

STA. 533 + 97.00  
EXIST. SN 011-0012  
2-SPAN CONC. SLAB  
43'-0" BK-BK ABUTS  
OVER LOCUST CREEK  
TRIBUTARY

STA. 533 + 87  
PROP. SN 011-2112  
DOUBLE 12' X 8'  
BOX CULVERT



END IMPROVEMENT  
STA. 538 + 00

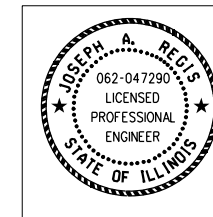


FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES, REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

J.U.L.I.E.  
JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION  
1-800-892-0123  
OR 811

PROJECT ENGINEER      JON KELLEY- (217) 785-2739  
PROJECT MANAGER      CHRIS SIEFERT- (217) 524-7940

GROSS LENGTH = 800.00 FT. = 0.152 MILE  
NET LENGTH = 800.00 FT. = 0.152 MILE



Signed: *Joseph A. Regis*  
Date: 7/1/2024  
Expires: 11/30/2025

**AMES Engineering, Inc.**  
CONSULTING ENGINEERS  
6330 Belmont Road, Suite 4B  
Downers Grove, IL 60516

CONTRACT NO. 72994

FUNCTIONAL CLASSIFICATION  
OTHER PRINCIPAL ARTERIAL  
ADT: 4344 (2023)  
ADT: 4800 (2043)  
PV: 88.8% SU: 4.8% MU: 6.4%

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SUBMITTED July 3, 2024

*Joseph P. Meyer*  
REGIONAL ENGINEER

August 16, 2024  
*Scott A. Etkin*  
ENGINEER OF DESIGN AND ENVIRONMENT

August 16, 2024  
*James J. Guerin*  
DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

**PRINTED BY THE AUTHORITY  
OF THE STATE OF ILLINOIS**

**GENERAL NOTES**

- THE FOLLOWING RATES OF APPLICATION HAVE BEEN USED TO CALCULATE PLAN QUANTITIES
 

|                                   |                                |
|-----------------------------------|--------------------------------|
| HOT-MIX ASPHALT SURFACE/BINDER    | 0.056 TON / (SQ YD - INCH)     |
| BITUMINOUS MATERIALS (TACK COAT)  | 0.05 LB / SQ FT (ON PAVEMENT)  |
| BITUMINOUS MATERIALS (PRIME COAT) | 0.25 LB / SQ FT (ON AGGREGATE) |
| BITUMINOUS MATERIALS (TACK COAT)  | 0.025 LB / SQ FT (FOG)         |
| AGGREGATE MATERIAL                | 1.60 TON / CU YD               |
| SHORT TERM PAVEMENT MARKING       | 4 FT / 100 FT OF APPLICATION   |
| FERTILIZER NUTRIENTS              | 90 LBS / ACRE                  |
| AGRICULTURAL GROUND LIMESTONE     | 2 TON / ACRE                   |
| TEMPORARY EROSION CONTROL         | 100 LBS / ACRE                 |
- THE CONTRACTOR SHALL SUBMIT A SEQUENCE OF CONSTRUCTION FOR APPROVAL TO THE RESIDENT ENGINEER BEFORE THIS PROJECT IS STARTED.
- IDOT DISTRICT 6 OPERATIONS TRAFFIC SIGNAL SECTION SHALL BE CONTACTED AT (217) 524-9161 FOR CONTROLLER PROGRAMMING AND TIMING APPROVAL PRIOR TO ACTIVATING THE TEMPORARY BRIDGE TRAFFIC SIGNALS.

THE FOLLOWING MIXTURE REQUIREMENTS ARE APPLICABLE FOR THIS PROJECT:

| MIXTURE USE(S):                             | HMA SURFACE COURSE | HMA SHOULDERS |
|---|--------------------|---------------|
| PG GRADE:                                   | PG 64-22           | PG 64-22      |
| DESIGN AIR VOIDS:                           | 4.0% @ N50         | 4.0% @ N50    |
| MIXTURE COMPOSITION:<br>(GRADATION MIXTURE) | IL-9.5             | IL-9.5        |
| FRICTION AGGREGATE:                         | MIX "C"            | MIX "C"       |
| QUALITY MANAGEMENT:                         | QC/QA              | QC/QA         |
| SUBLOT SIZE:                                | N/A                | N/A           |
| MATERIAL TRANSFER<br>DEVICE REQUIRED:       | NO                 | NO            |

**INDEX OF SHEETS**

|          |   |
|----------|---|
| 1        | COVER SHEET   |
| 2        | INDEX OF SHEETS, HIGHWAY STANDARDS, GENERAL NOTES AND COMMITMENTS |
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| 7        | TYPICAL SECTIONS - ROADWAY & BIKE PATH                            |
| 8 TO 9   | SCHEDULE OF QUANTITIES  |
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| 13 TO 14 | PLAN AND PROFILE - BIKE PATH                                      |
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| 33 TO 42 | CROSS SECTIONS  |


**HIGHWAY STANDARDS**

|             |   |
|-------------|---|
| 001006      | DECIMAL OF AN INCH AND OF A FOOT  |
| 000001-08   | STANDARD SYMBOLS, ABBREVIATIONS, AND PATTERNS   |
| 001001-02   | AREAS OF REINFORCEMENT BARS   |
| 280001-07   | TEMPORARY EROSION CONTROL SYSTEMS   |
| 482001-02   | HMA SHOULDER ADJACENT TO FLEXIBLE PAVEMENT  |
| 482011-03   | HMA SHOULDER STRIPS/SHOULDERS WITH RESURFACING OR WIDENING AND RESURFACING PROJECTS     |
| 515001-04   | NAME PLATE FOR BRIDGES  |
| 542301-03   | PRECAST REINFORCED CONCRETE FLARED END SECTION  |
| 602301-04   | INLET, TYPE A   |
| 602401-07   | PRECAST MANHOLE TYPE A 4' DIAMETER  |
| 604036-03   | GRATE TYPE B  |
| 642006-01   | SHOULDER RUMBLE STRIPS, 8 IN.   |
| 666001-01   | RIGHT-OF-WAY MARKERS  |
| 701001-02   | OFF-ROAD OPERATIONS, 2L, 2W, MORE THAN 15' (4.5 M) AWAY                                 |
| 701006-05   | OFF-ROAD OPERATIONS, 2L, 2W, 15' (4.5 M) TO 24" (600 MM) FROM PAVEMENT EDGE             |
| 701201-05   | LANE CLOSURE, 2L, 2W, DAY ONLY, FOR SPEEDS > 45 MPH                                     |
| 701301-04   | LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS   |
| 701306-04   | LANE CLOSURE, 2L, 2W, SLOW MOVING OPERATIONS DAY ONLY, FOR SPEEDS > 45 MPH              |
| 701311-03   | LANE CLOSURE, 2L, 2W, MOVING OPERATIONS - DAY ONLY                                      |
| 701321-18   | LANE CLOSURE, 2L, 2W, BRIDGE REPAIR WITH BARRIER  |
| 701901-09   | TRAFFIC CONTROL DEVICES   |
| 704001-08   | TEMPORARY CONCRETE BARRIER  |
| 781001-04   | TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS                                 |
| 782006-01   | GUARDRAIL AND BARRIER WALL REFLECTOR MOUNTING DETAILS                                   |
| 780001-05   | TYPICAL PAVEMENT MARKINGS   |
| B.L.R. 21-9 | TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES FOR CONSTRUCTION ON RURAL LOCAL HIGHWAYS |
| 420001-10   | PAVEMENT JOINTS   |
| 602701-02   | MANHOLE STEPS   |

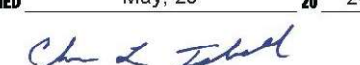
REV - MS

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS  
DISTRICT 6**

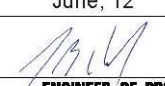
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EXAMINED May, 13 2024  
  
**ENGINEER OF OPERATIONS**

---

EXAMINED May, 29 2024  
  
**ENGINEER OF PROJECT IMPLEMENTATION**

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EXAMINED June, 12 2024  
  
**ENGINEER OF PROGRAM DEVELOPMENT**

MODEL #MODELNAME  
FILE NAME: D02294-201index.dgn



6-60401-0000  
 NHPP-EECC(722)  
 80% FED  
 20% STATE  
 BOX CULVERT  
 0010  
 S.N. 011-2112  
 RURAL

| CODE NO. | ITEM                              | UNIT  | TOTAL QUANTITY |      |
|----------|-----------------------------------|-------|----------------|------|
| 20100500 | TREE REMOVAL, ACRES               | ACRE  | 0.3            | 0.3  |
| 20200100 | EARTH EXCAVATION                  | CU YD | 562            | 562  |
| 20400800 | FURNISHED EXCAVATION              | CU YD | 880            | 880  |
| 21101615 | TOPSOIL FURNISH AND PLACE, 4"     | SQ YD | 3706           | 3706 |
| 25000210 | SEEDING, CLASS 2A                 | ACRE  | 0.8            | 0.8  |
| 25000400 | NITROGEN FERTILIZER NUTRIENT      | POUND | 69             | 69   |
| 25000500 | PHOSPHORUS FERTILIZER NUTRIENT    | POUND | 69             | 69   |
| 25000600 | POTASSIUM FERTILIZER NUTRIENT     | POUND | 69             | 69   |
| 25000700 | AGRICULTURAL GROUND LIMESTONE     | TON   | 2              | 2    |
| 25100630 | EROSION CONTROL BLANKET           | SQ YD | 3706           | 3706 |
| 28000250 | TEMPORARY EROSION CONTROL SEEDING | POUND | 77             | 77   |
| 28000305 | TEMPORARY DITCH CHECKS            | FOOT  | 90             | 90   |
| 28000400 | PERIMETER EROSION BARRIER         | FOOT  | 910            | 910  |
| 28000500 | INLET AND PIPE PROTECTION         | EACH  | 3              | 3    |

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|----------|--|-------|----------------|------|
| 28100205 | STONE RIPRAP, CLASS A3                               | TON   | 157            | 157  |
| 28200200 | FILTER FABRIC  | SQ YD | 135            | 135  |
| 30300112 | AGGREGATE SUBGRADE IMPROVEMENT, 12"                  | SQ YD | 392            | 392  |
| 35101600 | AGGREGATE BASE COURSE, TYPE B 4"                     | SQ YD | 453            | 453  |
| 35300300 | PORTLAND CEMENT CONCRETE BASE COURSE 8"              | SQ YD | 392            | 392  |
| 40600290 | BITUMINOUS MATERIALS (TACK COAT)                     | POUND | 2443           | 2443 |
| 40600982 | HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT         | SQ YD | 136            | 136  |
| 40600990 | TEMPORARY RAMP                                       | SQ YD | 92             | 92   |
| 40604050 | HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "C", N50 | TON   | 230            | 230  |
| 42400200 | PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH             | SQ FT | 4086           | 4086 |
| 44000100 | PAVEMENT REMOVAL                                     | SQ YD | 392            | 392  |
| 44004250 | PAVED SHOULDER REMOVAL                               | SQ YD | 178            | 178  |
| 48101200 | AGGREGATE SHOULDERS, TYPE B                          | TON   | 62             | 62   |
| 48203100 | HOT-MIX ASPHALT SHOULDERS                            | TON   | 61             | 61   |

MODEL: I:\MODEL\AMES  
 FILE NAME: D:\2294-500\_01.dwg



|                        |                   |           |
|------------------------|-------------------|-----------|
| USER NAME = msomer     | DESIGNED - MS     | REVISED - |
| PLOT SCALE = \$SCALE\$ | DRAWN - SR, MA    | REVISED - |
| PLOT DATE = 07/08/2024 | CHECKED - JAR     | REVISED - |
|                        | DATE - 06-21-2024 | REVISED - |

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**SUMMARY OF QUANTITIES  
 IL - 29 OVER LOCUST CREEK TRIBUTARY**

SCALE: SHEET OF SHEETS STA. TO STA.

|                           |              |                  |                    |             |
|---------------------------|--------------|------------------|--------------------|-------------|
| F.A.P. RTE. 75            | SECTION 2B-1 | COUNTY CHRISTIAN | TOTAL SHEETS 42    | SHEET NO. 3 |
| ILLINOIS FED. AID PROJECT |              |                  | CONTRACT NO. 72994 |             |

6-60401-0000  
 NHPP-EECC(722)  
 80% FED  
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 S.N. 011-2112  
 RURAL

| CODE NO. | ITEM  | UNIT  | TOTAL QUANTITY |       |
|----------|---|-------|----------------|-------|
| 50100100 | REMOVAL OF EXISTING STRUCTURES                      | EACH  | 1              | 1     |
| 50105220 | PIPE CULVERT REMOVAL                                | FOOT  | 129            | 129   |
| 51500100 | NAME PLATES   | EACH  | 1              | 1     |
| 52200010 | TEMPORARY SHEET PILING                              | SQ FT | 736            | 736   |
| 54001001 | BOX CULVERT END SECTIONS, CULVERT NO. 1             | EACH  | 2              | 2     |
| 54011208 | PRECAST CONCRETE BOX CULVERTS 12' X 8'              | FOOT  | 190.2          | 190.2 |
| 542A1060 | PIPE CULVERTS, CLASS A, TYPE 2 15"                  | FOOT  | 388            | 388   |
| 54213660 | PRECAST REINFORCED CONCRETE FLARED END SECTIONS 15" | EACH  | 2              | 2     |
| 59100100 | GEOCOMPOSITE WALL DRAIN                             | SQ YD | 420            | 420   |
| 60219000 | MANHOLES, TYPE A, 4' - DIAMETER, TYPE 8 GRATE       | EACH  | 1              | 1     |
| 60236200 | INLETS, TYPE A, TYPE 8 GRATE                        | EACH  | 2              | 2     |
| 63200310 | GUARDRAIL REMOVAL                                   | FOOT  | 793            | 793   |
| 64200108 | SHOULDER RUMBLE STRIPS, 8 INCH                      | FOOT  | 160            | 160   |
| 66600105 | FURNISHING AND ERECTING RIGHT OF WAY MARKERS        | EACH  | 8              | 8     |

6-60401-0000  
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 S.N. 011-2112  
 RURAL

| CODE NO.   | ITEM   | UNIT   | TOTAL QUANTITY |      |
|------------|--|--------|----------------|------|
| 67000400   | ENGINEER'S FIELD OFFICE, TYPE A  | CAL MO | 12             | 12   |
| 67100100   | MOBILIZATION   | L SUM  | 1              | 1    |
| 70100405   | TRAFFIC CONTROL AND PROTECTION, STANDARD 701321                        | EACH   | 1              | 1    |
| 70100450   | TRAFFIC CONTROL AND PROTECTION, STANDARD 701201                        | L SUM  | 1              | 1    |
| 70100460   | TRAFFIC CONTROL AND PROTECTION, STANDARD 701306                        | L SUM  | 1              | 1    |
| 70106500   | TEMPORARY BRIDGE TRAFFIC SIGNALS                                       | EACH   | 1              | 1    |
| 70107025   | CHANGEABLE MESSAGE SIGN  | CAL DA | 270            | 270  |
| 70300100   | SHORT TERM PAVEMENT MARKING  | FOOT   | 160            | 160  |
| 70300150   | SHORT TERM PAVEMENT MARKING REMOVAL                                    | SQ FT  | 53             | 53   |
| 70400100   | TEMPORARY CONCRETE BARRIER   | FOOT   | 300            | 300  |
| 70400200   | RELOCATE TEMPORARY CONCRETE BARRIER                                    | FOOT   | 300            | 300  |
| 70600251   | IMPACT ATTENUATORS, TEMPORARY (NON- REDIRECTIVE, NARROW), TEST LEVEL 3 | EACH   | 2              | 2    |
| 70600352   | IMPACT ATTENUATORS, RELOCATE (NON- REDIRECTIVE,NARROW), TEST LEVEL 3   | EACH   | 2              | 2    |
| * 78001120 | PAINT PAVEMENT MARKING - LINE 5"                                       | FOOT   | 1800           | 1800 |

\* SPECIALTY ITEM

REV - MS

MODEL: MODELNAME  
 FILE NAME: 072224-10-500 02.dgn



|                        |                   |           |
|------------------------|-------------------|-----------|
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| PLOT SCALE = \$SCALE\$ | DRAWN - SR, MA    | REVISED - |
| PLOT DATE = 07/03/2024 | CHECKED - JAR     | REVISED - |
|                        | DATE - 06-21-2024 | REVISED - |

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES  
 IL - 29 OVER LOCUST CREEK TRIBUTARY

SCALE: SHEET OF SHEETS STA. TO STA.

| F.A.P. RTE.               | SECTION | COUNTY    | TOTAL SHEETS | SHEET NO. |
|---------------------------|---------|-----------|--------------|-----------|
| 75                        | 2B-1    | CHRISTIAN | 42           | 4         |
| CONTRACT NO. 72994        |         |           |              |           |
| ILLINOIS FED. AID PROJECT |         |           |              |           |

6-60401-0000  
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| CODE NO.   | ITEM  | UNIT  | TOTAL QUANTITY |      |
|------------|---|-------|----------------|------|
| * 78100100 | RAISED REFLECTIVE PAVEMENT MARKER                   | EACH  | 10             | 10   |
| 78300200   | RAISED REFLECTIVE PAVEMENT MARKER REMOVAL           | EACH  | 10             | 10   |
| 78300201   | PAVEMENT MARKING REMOVAL - GRINDING                 | SQ FT | 1067           | 1067 |
| X0327036   | BIKE PATH REMOVAL                                   | SQ YD | 454            | 454  |
| X5810103   | MEMBRANE WATERPROOFING SYSTEM FOR BURIED STRUCTURES | SQ YD | 420            | 420  |
| X7011800   | TRAFFIC CONTROL AND PROTECTION, STANDARD BLR 21     | L SUM | 1              | 1    |
| X7200201   | WIDTH RESTRICTION SIGNING                           | L SUM | 1              | 1    |
| Z0013798   | CONSTRUCTION LAYOUT                                 | L SUM | 1              | 1    |
| Z0016702   | DETOUR SIGNING                                      | L SUM | 1              | 1    |
| Z0023602   | GRANULAR CULVERT BACKFILL                           | CU YD | 210            | 210  |
| Z0073500   | TEMPORARY SUPPORT SYSTEM                            | L SUM | 1              | 1    |
| ∅ Z0076600 | TRAINEES  | HOUR  | 1500           | 1500 |
| ∅ Z0076604 | TRAINEES TRAINING PROGRAM GRADUATE                  | HOUR  | 1500           | 1500 |

\* SPECIALTY ITEM ∅ 0042

REV - MS

MODEL: MODELNAME  
FILE NAME: 072294-111500 03.dgn

**AMES Engineering, Inc.**  
 CONSULTING ENGINEERS  
 6330 Belmont Road, Suite 4B  
 Downers Grove, IL 60516

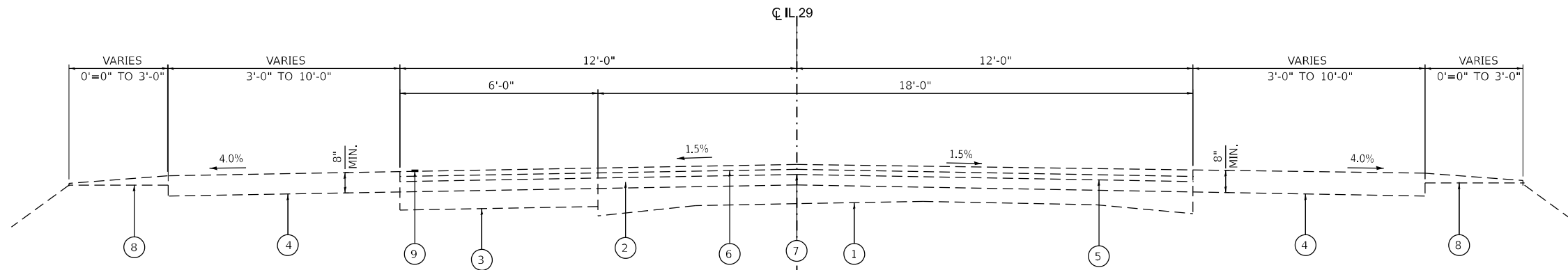
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|------------------------|-------------------|-----------|
| USER NAME = msomer     | DESIGNED - MS     | REVISED - |
| PLOT SCALE = \$SCALE\$ | DRAWN - SR, MA    | REVISED - |
| PLOT DATE = 07/03/2024 | CHECKED - JAR     | REVISED - |
|                        | DATE - 06-21-2024 | REVISED - |

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**SUMMARY OF QUANTITIES  
 IL - 29 OVER LOCUST CREEK TRIBUTARY**

SCALE: SHEET OF SHEETS STA. TO STA.

| F.A.P. RTE.               | SECTION | COUNTY    | TOTAL SHEETS       | SHEET NO. |
|---------------------------|---------|-----------|--------------------|-----------|
| 75                        | 2B - 1  | CHRISTIAN | 42                 | 5         |
| ILLINOIS FED. AID PROJECT |         |           | CONTRACT NO. 72994 |           |

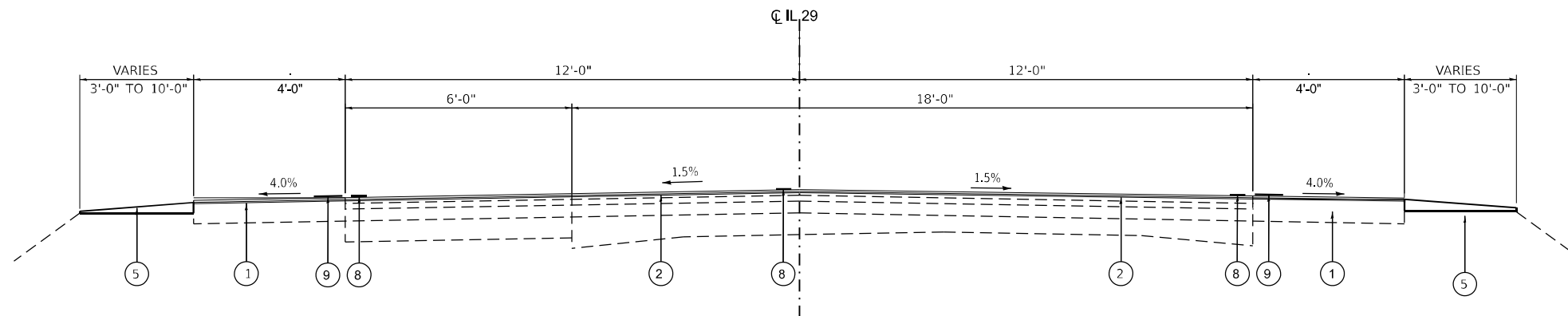


**EXISTING TYPICAL SECTION**

STA 530+00 TO STA 538+00

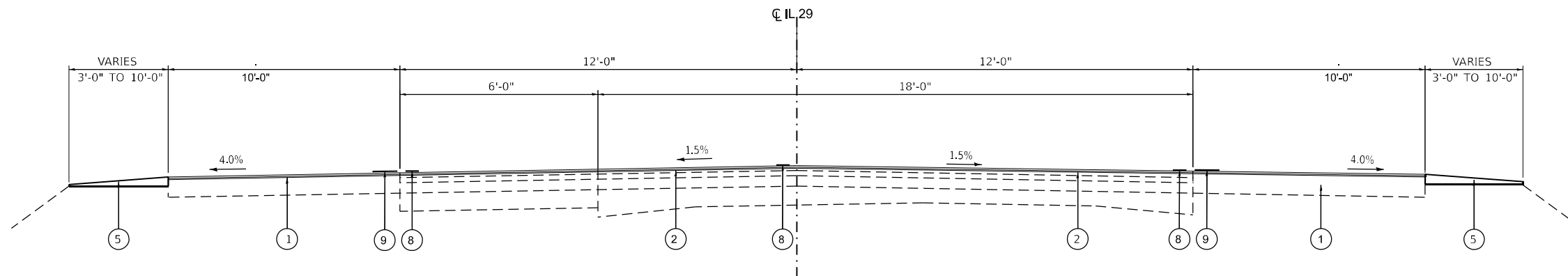
**BRIDGE OMISSION**

STA 533+81 TO STA 534+13



**PROPOSED TYPICAL SECTION**

STA 530+00 TO STA 532+25  
 STA 535+60 RT TO STA 538+00  
 STA 535+68 LT TO STA 538+00



**PROPOSED TYPICAL SECTION**

STA 532+25 TO STA 533+50  
 STA 534+20 TO STA 535+60 RT  
 STA 534+20 TO STA 535+68 LT

**EXISTING LEGEND**

- ① EXISTING P.C.C. PAVEMENT 9"-6"-9"
- ② EXISTING BITUMINOUS OVERLAY
- ③ EXISTING P.C.C. BASE COURSE OR BASE COURSE WIDENING 8"
- ④ EXISTING BITUMINOUS SHOULDER, 8"
- ⑤ EXISTING BITUMINOUS CONCRETE MIXTURES SUPERPAVE, CLASS 1, TYPE 2, MIX C, LEVEL BINDER 3/4"
- ⑥ EXISTING BITUMINOUS CONCRETE MIXTURES SUPERPAVE, LASS 1, TYPE 2, MIXTURE D, SURFACE 1 1/2"
- ⑦ EXISTING STRIP REFLECTIVE CRACK CONTROL TREATMENT
- ⑧ EXISTING AGGREGATE SHOULDERS, TYPE B
- ⑨ EXISTING MODIFIED URETHANE PAVEMENT MARKING LINE 5"

**PROPOSED LEGEND**

- ① PROPOSED HOT-MIX ASPHALT SHOULDERS (TON)
- ② PROPOSED HOT-MIX ASPHALT SURFACE COURSE, IL 9.5, MIX "C", N50 (1 1/2")
- ③ PROPOSED PCC BASE COURSE 8"
- ④ PROPOSED AGGREGATE SUBGRADE IMPROVEMENT, 12"
- ⑤ PROPOSED AGG SHOULDER TYPE B
- ⑥ PROPOSED PAVEMENT REMOVAL
- ⑦ PROPOSED PAVED SHOULDER REMOVAL
- ⑧ PROPOSED PAINT PAVEMENT MARKING - LINE 5"
- ⑨ PROPOSED SHOULDER RUMBLE STRIPS, 8 INCH

MODEL: 1400BELMAME  
 FILE NAME: D012924-Sub-Typical-Roadway.dgn

**AMES Engineering, Inc.**  
 CONSULTING ENGINEERS  
 6330 Belmont Road, Suite 4B  
 Downers Grove, IL 60516

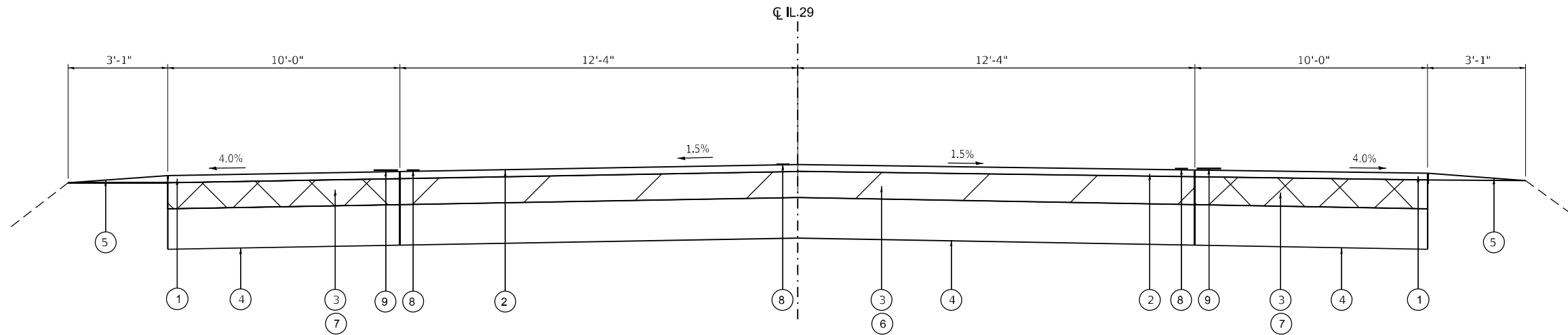
|                        |                   |           |
|------------------------|-------------------|-----------|
| USER NAME = msomer     | DESIGNED - MS     | REVISED - |
|                        | DRAWN - SR, MA    | REVISED - |
| PLOT SCALE = \$SCALE\$ | CHECKED - JAR     | REVISED - |
| PLOT DATE = 07/03/2024 | DATE - 06-21-2024 | REVISED - |

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

|  |       |           |              |
|--|-------|-----------|--------------|
| <b>TYPICAL SECTIONS - ROADWAY</b>          |       |           |              |
| <b>IL - 29 OVER LOCUST CREEK TRIBUTARY</b> |       |           |              |
| SCALE:                                     | SHEET | OF SHEETS | STA. TO STA. |

| F.A.P. RTE.               | SECTION | COUNTY    | TOTAL SHEETS | SHEET NO. |
|---------------------------|---------|-----------|--------------|-----------|
| 75                        | 2B-1    | CHRISTIAN | 42           | 6         |
| CONTRACT NO. 72994        |         |           |              |           |
| ILLINOIS FED. AID PROJECT |         |           |              |           |



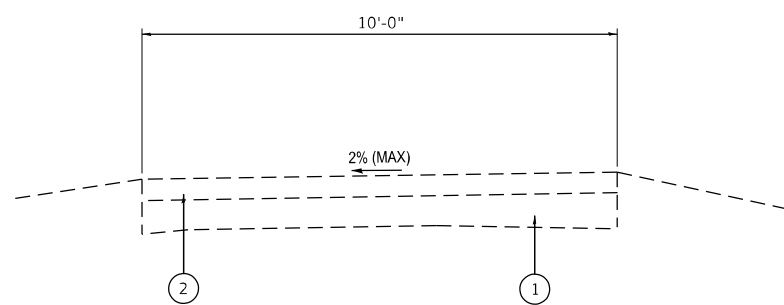
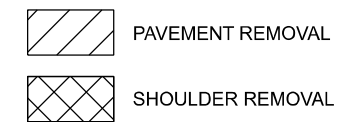


**PROPOSED ROADWAY TYPICAL SECTION**

STA 533+50 TO STA 534+20

**PROPOSED ROADWAY LEGEND**

- ① PROPOSED HOT-MIX ASPHALT SHOULDERS (TON)
- ② PROPOSED HOT-MIX ASPHALT SURFACE COURSE, IL 9.5, MIX "C", N50 (1½")
- ③ PROPOSED PCC BASE COURSE 8"
- ④ PROPOSED AGGREGATE SUBGRADE IMPROVEMENT, 12"
- ⑤ PROPOSED AGG SHOULDER TYPE B
- ⑥ PROPOSED PAVEMENT REMOVAL
- ⑦ PROPOSED PAVED SHOULDER REMOVAL
- ⑧ PROPOSED PAINT PAVEMENT MARKING - LINE 5"
- ⑨ PROPOSED SHOULDER RUMBLE STRIPS, 8 INCH

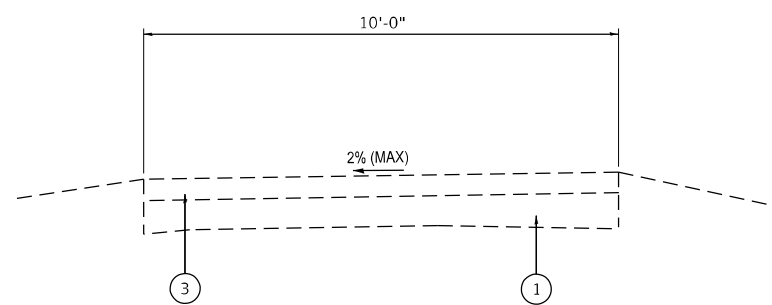


**EXISTING BIKE PATH TYPICAL SECTION**

STA 13+20 TO STA 16+67

**EXISTING BIKE PATH LEGEND**

- ① AGGREGATE BASE COURSE
- ② P.C.C. PAVEMENT

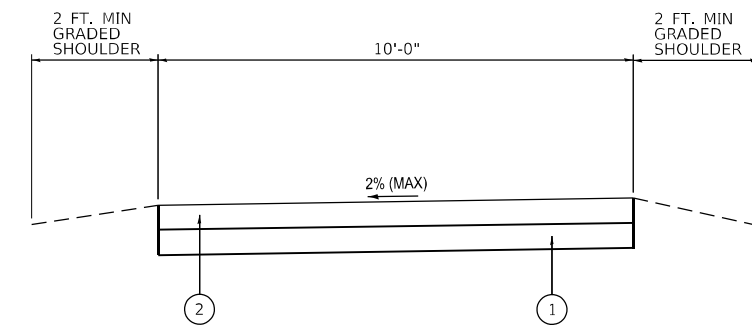


**EXISTING BIKE PATH TYPICAL SECTION**

STA 16+67 TO STA 17+28

**EXISTING BIKE PATH LEGEND**

- ① AGGREGATE BASE COURSE
- ③ HMA PAVEMENT



**PROPOSED BIKE PATH TYPICAL SECTION**

STA 13+20 TO STA 17+28

**PROPOSED BIKE PATH LEGEND**

- ① AGGREGATE BASE COURSE 4"
- ② P.C.C. SIDEWALK 5"

MODEL NAME: D:\22994-Sub-Typical Bike Path.dgn

**AMES Engineering, Inc.**  
CONSULTING ENGINEERS  
6330 Belmont Road, Suite 4B  
Downers Grove, IL 60516

|                        |                   |           |
|------------------------|-------------------|-----------|
| USER NAME = msomer     | DESIGNED - MS     | REVISED - |
| PLOT SCALE = \$SCALE\$ | DRAWN - SR, MA    | REVISED - |
| PLOT DATE = 07/02/2024 | CHECKED - JAR     | REVISED - |
|                        | DATE - 06-21-2024 | REVISED - |

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**TYPICAL SECTIONS - ROADWAY AND BIKE PATH  
IL - 29 OVER LOCUST CREEK TRIBUTARY**

SCALE: SHEET OF SHEETS STA. TO STA.

| F.A.P. RTE.               | SECTION | COUNTY    | TOTAL SHEETS | SHEET NO. |
|---------------------------|---------|-----------|--------------|-----------|
| 75                        | 2B-1    | CHRISTIAN | 42           | 7         |
| CONTRACT NO. 72994        |         |           |              |           |
| ILLINOIS FED. AID PROJECT |         |           |              |           |

| SEEDING SCHEDULE   |                   |                              |                                |                               |                               |
|--------------------|-------------------|------------------------------|--------------------------------|-------------------------------|-------------------------------|
| LOCATION           | 25000210          | 25000400                     | 25000500                       | 25000600                      | 25000700                      |
| STATION TO STATION | SEEDING, CLASS 2A | NITROGEN FERTILIZER NUTRIENT | PHOSPHORUS FERTILIZER NUTRIENT | POTASSIUM FERTILIZER NUTRIENT | AGRICULTURAL GROUND LIMESTONE |
|                    | ACRE              | POUND                        | POUND                          | POUND                         | TON                           |
| 531+90 - 536+00    | 0.8               | 69                           | 69                             | 69                            | 2                             |
| TOTALS             | 0.8               | 69                           | 69                             | 69                            | 2                             |

| EROSION CONTROL SCHEDULE |                         |                                   |                        |                           |                           |
|--------------------------|-------------------------|-----------------------------------|------------------------|---------------------------|---------------------------|
| LOCATION                 | 25100630                | 28000250                          | 28000305               | 28000400                  | 28000500                  |
| STATION TO STATION       | EROSION CONTROL BLANKET | TEMPORARY EROSION CONTROL SEEDING | TEMPORARY DITCH CHECKS | PERIMETER EROSION BARRIER | INLET AND PIPE PROTECTION |
|                          | SQ. YARD                | POUND                             | FOOT                   | FOOT                      | EACH                      |
| 532+00 - 533+00          |                         |                                   | 15                     |                           |                           |
| 533+00 - 534+80          |                         |                                   | 15                     |                           |                           |
| 534+80 - 535+80          |                         |                                   | 30                     |                           |                           |
| 535+80 - 536+00          |                         |                                   | 30                     |                           |                           |
| 533+00 - 535+00          |                         |                                   |                        |                           | 2                         |
| 535+00 - 536+00          |                         |                                   |                        |                           | 1                         |
| 531+90 - 536+00          | 3706                    | 77                                |                        | 910                       |                           |
| TOTALS                   | 3706                    | 77                                | 90                     | 910                       | 3                         |

| PAVEMENT SCHEDULE  |                                     |   |                                  |  |                  |
|--------------------|-------------------------------------|---|----------------------------------|--|------------------|
| LOCATION           | 30300112                            | 35300300                                | 40600290                         | 40604050   | 44000100         |
| STATION TO STATION | AGGREGATE SUBGRADE IMPROVEMENT, 12" | PORTLAND CEMENT CONCRETE BASE COURSE 8" | BITUMINOUS MATERIALS (TACK COAT) | HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "C", N50 | PAVEMENT REMOVAL |
|                    | SQ. YARD                            | SQ. YARD                                | POUND                            | TON  | SQ. YARD         |
| 533+55 - 534+35    | 392                                 | 392                                     |                                  |  |                  |
| 530+00 - 538+00    |                                     |   | 1920                             | 230  | 392              |
| TOTALS             | 392                                 | 392                                     | 1920                             | 230  | 392              |

| DRAINAGE STRUCTURE SCHEDULE |                      |                                    |   |   |                              |
|-----------------------------|----------------------|------------------------------------|---|---|------------------------------|
| LOCATION                    | 50105220             | 542A1060                           | 54213660  | 60219000                                    | 60236200                     |
| STATION TO STATION          | PIPE CULVERT REMOVAL | PIPE CULVERTS, CLASS A, TYPE 2 15" | PRECAST REINFORCED CONCRETE FLARED END SECTIONS 15" | MANHOLES, TYPE A, 4'-DIAMETER, TYPE 8 GRATE | INLETS, TYPE A, TYPE 8 GRATE |
|                             | FOOT                 | FOOT                               | EACH  | EACH  | EACH                         |
| 532+13 - 533+00             |                      | 103                                |   |   |                              |
| 533+00 - 533+43             |                      | 70                                 |   |   |                              |
| 533+86 - 535+00             |                      | 215                                |   |   |                              |
| 530+00 - 538+00             | 129                  |                                    | 2   | 1   | 2                            |
| TOTALS                      | 129                  | 388                                | 2   | 1   | 2                            |

| SHOULDER SCHEDULE  |                           |                                |                        |                             |                                  |
|--------------------|---------------------------|--------------------------------|------------------------|-----------------------------|----------------------------------|
| LOCATION           | 48203100                  | 64200108                       | 44004250               | 48101200                    | 40600290                         |
| STATION TO STATION | HOT-MIX ASPHALT SHOULDERS | SHOULDER RUMBLE STRIPS, 8 INCH | PAVED SHOULDER REMOVAL | AGGREGATE SHOULDERS, TYPE B | BITUMINOUS MATERIALS (TACK COAT) |
|                    | TON                       | FOOT                           | SQ YD                  | TON                         | POUND                            |
| 530+00 - 532+25 RT | 5                         |                                |                        | 9                           | 45                               |
| 532+25 - 533+50 RT | 8                         |                                |                        |                             |                                  |
| 533+50 - 534+20 RT | 4                         |                                |                        |                             |                                  |
| 534+20 - 535+60 RT | 8                         |                                |                        |                             |                                  |
| 532+25 - 535+60 RT |                           |                                |                        | 13                          | 168                              |
| 533+55 - 534+35 RT |                           | 80                             | 89                     |                             |                                  |
| 535+60 - 538+00 RT | 6                         |                                |                        | 9                           | 48                               |
| 530+00 - 532+25 LT | 5                         |                                |                        | 9                           | 45                               |
| 532+25 - 533+50 LT | 8                         |                                |                        |                             |                                  |
| 533+50 - 534+20 LT | 2                         |                                |                        |                             |                                  |
| 534+20 - 535+68 LT | 9                         |                                |                        |                             |                                  |
| 532+25 - 535+68 LT |                           |                                |                        | 13                          | 172                              |
| 533+55 - 534+35 LT |                           | 80                             | 89                     |                             |                                  |
| 535+68 - 538+00 LT | 6                         |                                |                        | 9                           | 46                               |
| TOTALS             | 61                        | 160                            | 178                    | 62                          | 524                              |

| RIGHT OF WAY MARKER SCHEDULE |  |
|------------------------------|--|
| LOCATION                     | 66600105                                     |
| STATION - OFFSET             | FURNISHING AND ERECTING RIGHT OF WAY MARKERS |
|                              | EACH   |
| 533+25- 60' LT               | 1  |
| 533+75- 80' LT               | 1  |
| 534+50- 80' LT               | 1  |
| 535+00- 60' LT               | 1  |
| 532+75- 32.5' RT             | 1  |
| 532+75- 90' RT               | 1  |
| 534+75- 32.5' RT             | 1  |
| 534+75- 90' RT               | 1  |
| TOTALS                       | 8  |

| GUARDRAIL REMOVAL SCHEDULE |                   |
|----------------------------|-------------------|
| LOCATION                   | 63200310          |
| STATION TO STATION         | GUARDRAIL REMOVAL |
|                            | FOOT              |
| 531+45 - 536+50            | 793               |
| TOTALS                     | 793               |

| PAVEMENT MARKING SCHEDULE |                             |                                     |                                  |
|---------------------------|-----------------------------|-------------------------------------|----------------------------------|
| LOCATION                  | 70300100                    | 70300150                            | 78001120                         |
| STATION TO STATION        | SHORT TERM PAVEMENT MARKING | SHORT TERM PAVEMENT MARKING REMOVAL | PAINT PAVEMENT MARKING - LINE 5" |
|                           | FOOT                        | SQ FT                               | FOOT                             |
| 530+00 - 538+00           | 160                         | 53                                  | 1800                             |
| TOTALS                    | 160                         | 53                                  | 1800                             |

| RIPRAP SCHEDULE    |                        |               |
|--------------------|------------------------|---------------|
| LOCATION           | 28100205               | 28200200      |
| STATION TO STATION | STONE RIPRAP, CLASS A3 | FILTER FABRIC |
|                    | TON                    | SQ. YARD      |
| BOX CULVERT ENDS   | 157                    | 135           |
| TOTALS             | 157                    | 135           |

REV - MS

MODEL - MODEL NAME  
FILE NAME - 0672994-01-Schedule of Quantities.dgn



|                        |                   |           |
|------------------------|-------------------|-----------|
| USER NAME = msomer     | DESIGNED - MS     | REVISED - |
| PLOT SCALE = \$SCALE\$ | DRAWN - SR, MA    | REVISED - |
| PLOT DATE = 07/11/2024 | CHECKED - JAR     | REVISED - |
|                        | DATE - 06-21-2024 | REVISED - |

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

| SCHEDULE OF QUANTITIES              |       |           |              |
|-------------------------------------|-------|-----------|--------------|
| IL - 29 OVER LOCUST CREEK TRIBUTARY |       |           |              |
| SCALE:                              | SHEET | OF SHEETS | STA. TO STA. |
|                                     |       |           |              |

| F.A.P. RTE.               | SECTION | COUNTY    | TOTAL SHEETS       | SHEET NO. |
|---------------------------|---------|-----------|--------------------|-----------|
| 75                        | 2B - 1  | CHRISTIAN | 42                 | 8         |
|                           |         |           | CONTRACT NO. 72994 |           |
| ILLINOIS FED. AID PROJECT |         |           |                    |           |

| EARTHWORK SCHEDULE    |                  |  |            |                      |                               |
|-----------------------|------------------|--|------------|----------------------|-------------------------------|
| LOCATION              | 20200100         |  |            | 20400800             | 21101615                      |
| STATION               | EARTH EXCAVATION | EXCAVATION TO BE USED IN EMBANKMENT ADJUSTED FOR SHRINKAGE (25%) | EMBANKMENT | FURNISHED EXCAVATION | TOPSOIL FURNISH AND PLACE, 4" |
|                       | CU. YARD         | CU. YARD   | CU. YARD   | CU. YARD             | SQ YD                         |
| 530+00.00             | 0                | 0  | 0          | 0                    |                               |
| 530+50.00             | 13.9             | 10.425   | 0          | 10.425               |                               |
| 531+00.00             | 6.9              | 5.175  | 0          | 5.175                |                               |
| 531+50.00             | 10.9             | 8.175  | 0          | 8.175                |                               |
| 532+00.00             | 28.9             | 21.675   | 0.9        | 20.775               |                               |
| 532+50.00             | 31.1             | 23.325   | 8.5        | 14.825               |                               |
| 533+00.00             | 19.1             | 14.325   | 47.8       | -33.475              |                               |
| 533+50.00             | 83.3             | 62.475   | 151.2      | -88.725              |                               |
| 534+00.00             | 151.3            | 113.475  | 321.3      | -207.825             |                               |
| 534+50.00             | 84.3             | 63.225   | 346.3      | -283.075             |                               |
| 535+00.00             | 13.4             | 10.05  | 250.8      | -240.75              |                               |
| 535+50.00             | 31.5             | 23.625   | 139.1      | -115.475             |                               |
| 536+00.00             | 46.4             | 34.8   | 29.2       | 5.6                  |                               |
| 536+50.00             | 22.5             | 16.875   | 5.3        | 11.575               |                               |
| 537+00.00             | 4.1              | 3.075  | 0.4        | 2.675                |                               |
| 537+50.00             | 4.9              | 3.675  | 0          | 3.675                |                               |
| 538+00.00             | 9                | 6.75   | 0          | 6.75                 |                               |
| 530+00.00 - 538+00.00 | 562              | 421  | 1301       | -880                 | 3706                          |
| TOTALS                | 562              | 421  | 1301       | -880                 | 3706                          |

| BIKE PATH SCHEDULE |                                   |  |                   |
|--------------------|-----------------------------------|--|-------------------|
| LOCATION           | 35101600                          | 42400200                                 | X0327036          |
| STATION TO STATION | AGGREGATE BASE COURSE, TYPE B, 4" | PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH | BIKE PATH REMOVAL |
|                    | SQ YD                             | SQ FT                                    | SQ YD             |
| 530+00 - 538+00    | 453                               | 4086                                     | 454               |
| TOTALS             | 453                               | 4086                                     | 454               |

Model: Default  
 File Name: P:\Projects\1070-Vandue II D6\W06\Phase II\Design\Sheet\0672994-41-Earthwork Schedule.dgn


**AMES Engineering, Inc.**  
 CONSULTING ENGINEERS  
 6330 Belmont Road, Suite 4B  
 Downers Grove, IL 60516

|            |                 |
|------------|-----------------|
| USER NAME  | = msomer        |
| PLOT SCALE | = 2,000 ' / in. |
| PLOT DATE  | = 07/08/2024    |

|          |              |
|----------|--------------|
| DESIGNED | - MS         |
| DRAWN    | - SR, MA     |
| CHECKED  | - JAR        |
| DATE     | - 06-21-2024 |

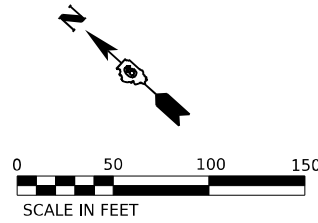
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| REVISED | - |

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

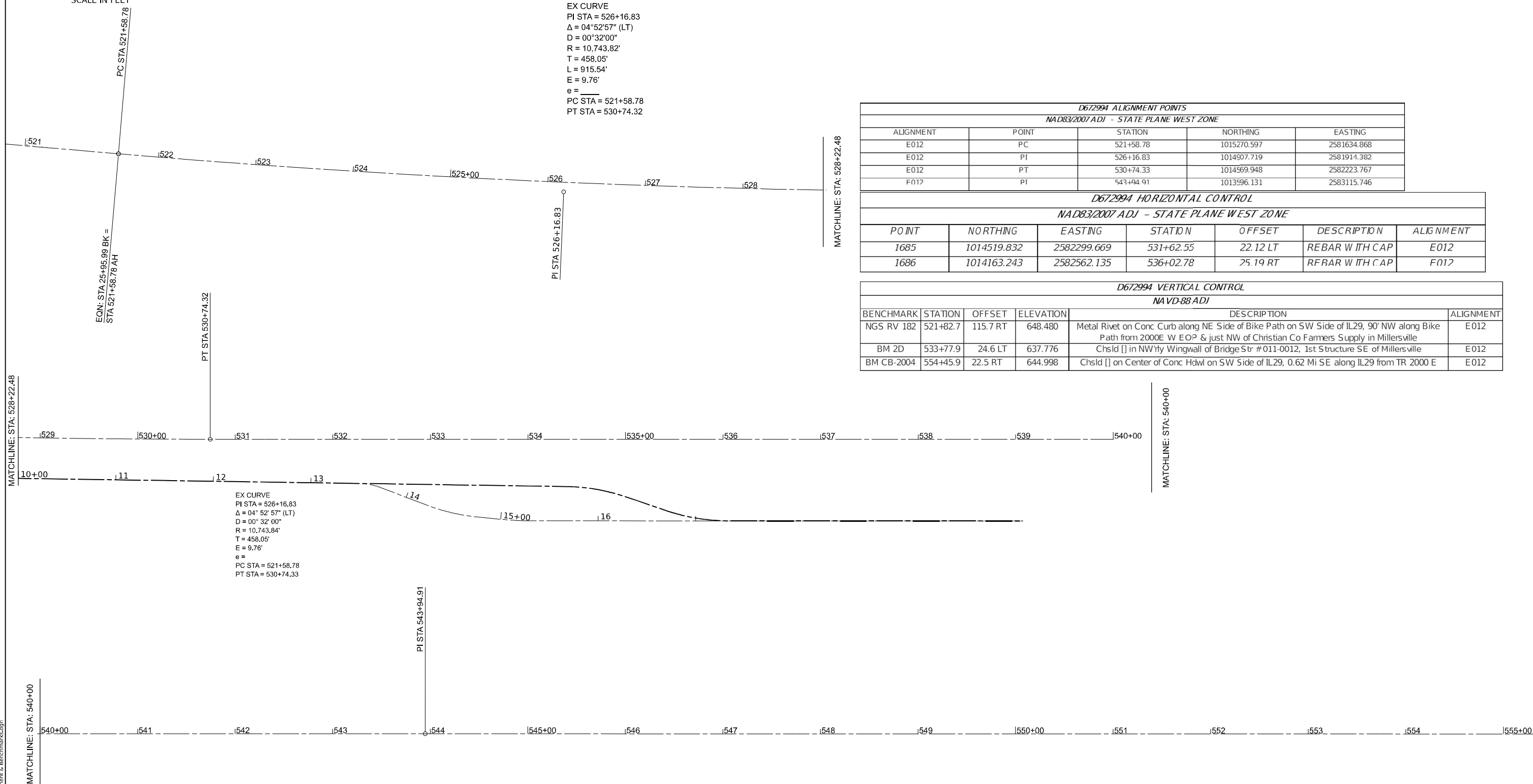
| SCHEDULE OF QUANTITIES              |       |           |              |
|-------------------------------------|-------|-----------|--------------|
| IL - 29 OVER LOCUST CREEK TRIBUTARY |       |           |              |
| SCALE:                              | SHEET | OF SHEETS | STA. TO STA. |
|                                     |       |           |              |

| F.A.P. RTE.        | SECTION | COUNTY    | TOTAL SHEETS     | SHEET NO. |
|--------------------|---------|-----------|------------------|-----------|
| 75                 | 2B-1    | CHRISTIAN | 42               | 9         |
| CONTRACT NO. 72994 |         |           |                  |           |
| ILLINOIS           |         |           | FED. AID PROJECT |           |

REV - MS



EX CURVE  
 PI STA = 526+16.83  
 $\Delta = 04^{\circ}52'57''$  (LT)  
 $D = 00^{\circ}32'00''$   
 $R = 10,743.82'$   
 $T = 458.05'$   
 $L = 915.54'$   
 $E = 9.76'$   
 $e =$   
 PC STA = 521+58.78  
 PT STA = 530+74.32



| D672994 ALIGNMENT POINTS               |       |           |             |             |
|--|-------|-----------|-------------|-------------|
| NAD83/2007 ADJ - STATE PLANE WEST ZONE |       |           |             |             |
| ALIGNMENT                              | POINT | STATION   | NORTHING    | EASTING     |
| E012                                   | PC    | 521+58.78 | 1015270.597 | 2581634.868 |
| E012                                   | PI    | 526+16.83 | 1014907.719 | 2581914.382 |
| E012                                   | PT    | 530+74.33 | 1014569.948 | 2582223.767 |
| F012                                   | PI    | 543+94.91 | 1013596.131 | 2583115.746 |

| D672994 HORIZONTAL CONTROL             |             |             |           |          |                |           |
|--|-------------|-------------|-----------|----------|----------------|-----------|
| NAD83/2007 ADJ - STATE PLANE WEST ZONE |             |             |           |          |                |           |
| POINT                                  | NORTHING    | EASTING     | STATION   | OFFSET   | DESCRIPTION    | ALIGNMENT |
| 1685                                   | 1014519.832 | 2582299.669 | 531+62.55 | 22.12 LT | REBAR WITH CAP | E012      |
| 1686                                   | 1014163.243 | 2582562.135 | 536+02.78 | 25.19 RT | REBAR WITH CAP | F012      |

| D672994 VERTICAL CONTROL |          |          |           |  |  |           |
|--------------------------|----------|----------|-----------|--|--|-----------|
| NAVD-88 ADJ              |          |          |           |  |  |           |
| BENCHMARK                | STATION  | OFFSET   | ELEVATION | DESCRIPTION  |  | ALIGNMENT |
| NGS RV 182               | 521+82.7 | 115.7 RT | 648.480   | Metal Rivet on Conc Curb along NE Side of Bike Path on SW Side of IL29, 90' NW along Bike Path from 2000E W EOP & just NW of Christian Co Farmers Supply in Millersville |  | E012      |
| BM 2D                    | 533+77.9 | 24.6 LT  | 637.776   | Chsld [] in NW'ly Wingwall of Bridge Str #011-0012, 1st Structure SE of Millersville   |  | E012      |
| BM CB-2004               | 554+45.9 | 22.5 RT  | 644.998   | Chsld [] on Center of Conc Hdwl on SW Side of IL29, 0.62 Mi SE along IL29 from TR 2000 E   |  | E012      |

EX CURVE  
 PI STA = 526+16.83  
 $\Delta = 04^{\circ}52'57''$  (LT)  
 $D = 00^{\circ}32'00''$   
 $R = 10,743.84'$   
 $T = 458.05'$   
 $E = 9.76'$   
 $e =$   
 PC STA = 521+58.78  
 PT STA = 530+74.33

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**ALIGNMENT AND BENCHMARKS  
 IL - 29 OVER LOCUST CREEK TRIBUTARY**

SCALE: SHEET OF SHEETS STA. TO STA.

| F.A.P. RTE.               | SECTION | COUNTY    | TOTAL SHEETS | SHEET NO. |
|---------------------------|---------|-----------|--------------|-----------|
| 75                        | 2B - 1  | CHRISTIAN | 42           | 10        |
| CONTRACT NO. 72994        |         |           |              |           |
| ILLINOIS FED. AID PROJECT |         |           |              |           |

MODEL: 1400BELMAME  
 FILE NAME: D672994-2B-Alignment & Benchmarks.dgn

**AMES Engineering, Inc.**  
 CONSULTING ENGINEERS  
 6330 Belmont Road, Suite 4B  
 Downers Grove, IL 60516

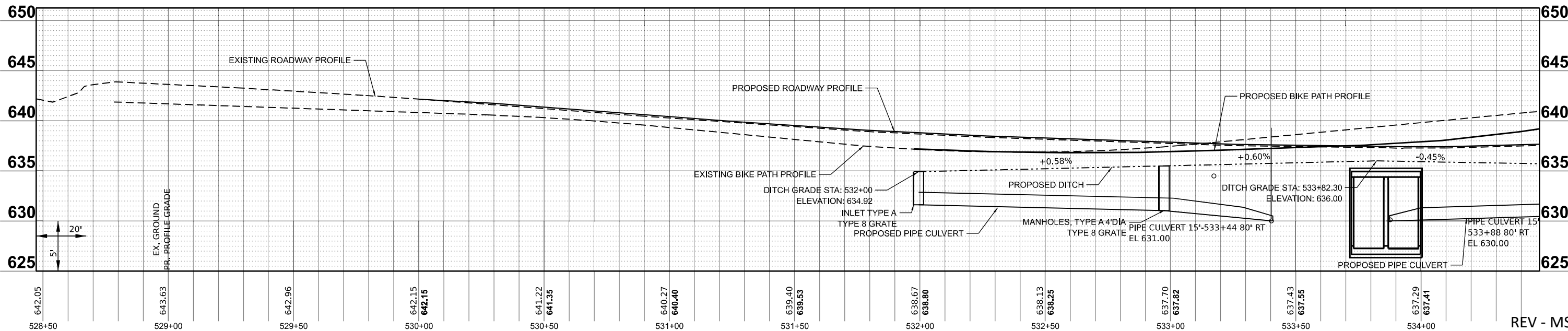
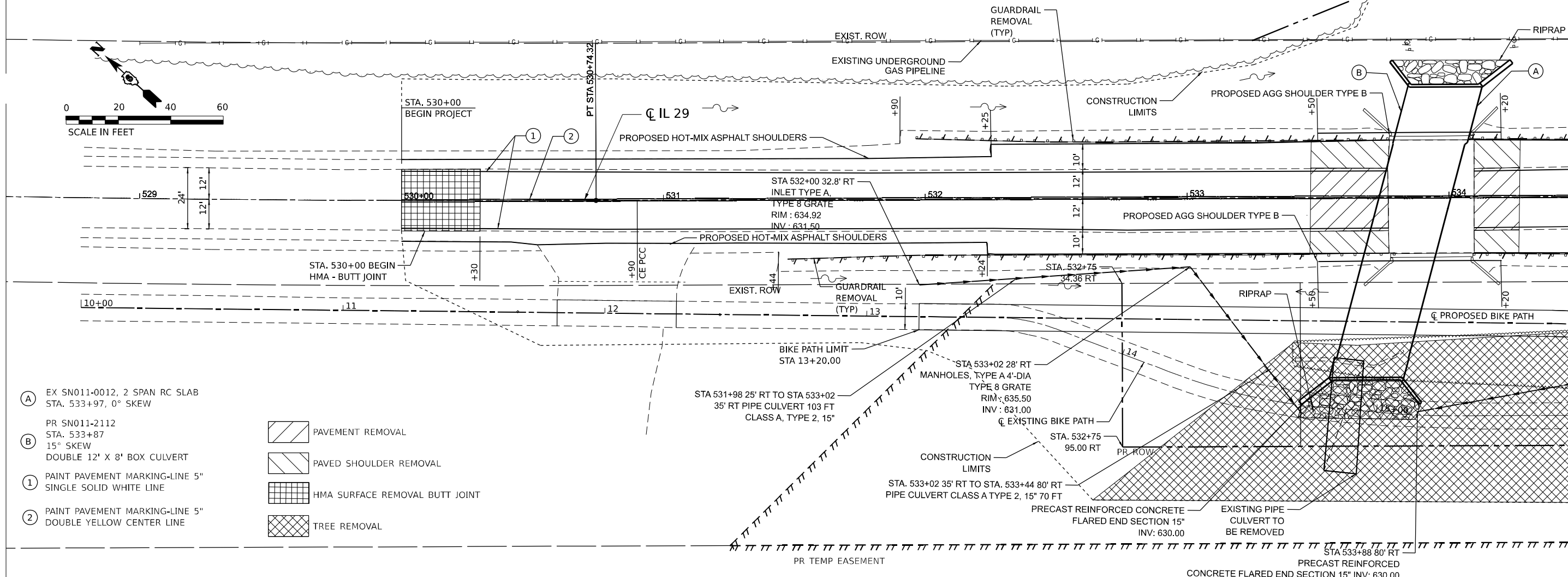
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|------------------------|-------------------|-----------|
| USER NAME = msomer     | DESIGNED - MS     | REVISED - |
| PLOT SCALE = \$SCALE\$ | DRAWN - SR, MA    | REVISED - |
| PLOT DATE = 07/02/2024 | CHECKED - JAR     | REVISED - |
|                        | DATE - 06-21-2024 | REVISED - |





- (A) EX SN011-0012, 2 SPAN RC SLAB  
STA. 533+97, 0° SKEW
- PR SN011-2112  
STA. 533+87  
15° SKEW  
DOUBLE 12' X 8' BOX CULVERT
- (1) PAINT PAVEMENT MARKING-LINE 5"  
SINGLE SOLID WHITE LINE
- (2) PAINT PAVEMENT MARKING-LINE 5"  
DOUBLE YELLOW CENTER LINE

- PAVEMENT REMOVAL
- PAVED SHOULDER REMOVAL
- HMA SURFACE REMOVAL BUTT JOINT
- TREE REMOVAL



**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

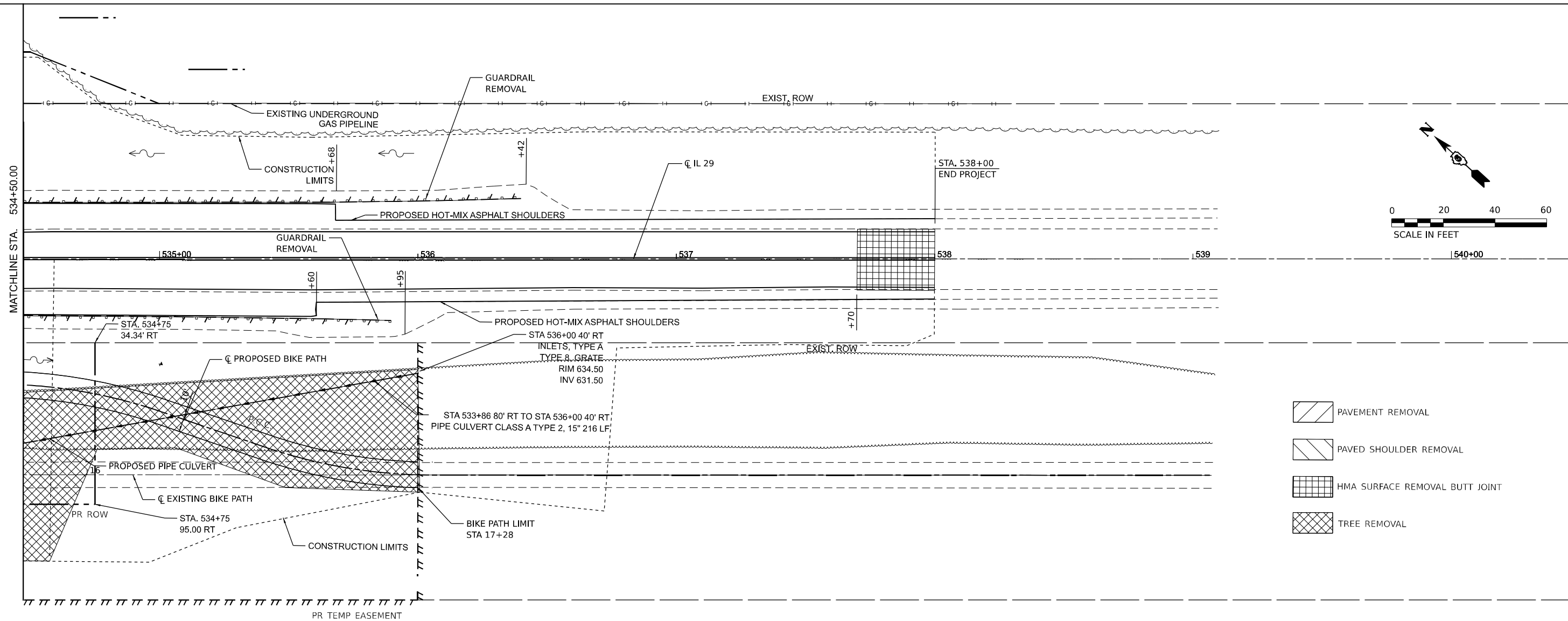
**PLAN AND PROFILE - ROADWAY  
IL 29 OVER LOCUST CREEK TRIBUTARY**





|                        |            |           |
|------------------------|------------|-----------|
| USER NAME = msomer     | DESIGNED - | REVISED - |
|                        | DRAWN -    | REVISED - |
| PLOT SCALE = \$SCALE\$ | CHECKED -  | REVISED - |
| PLOT DATE = 07/03/2024 | DATE -     | REVISED - |

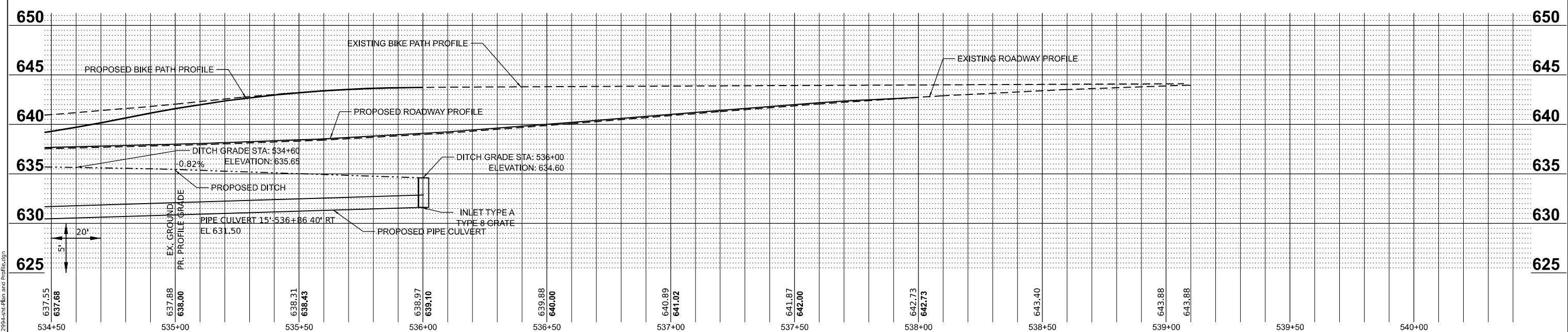
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|---------------|---------------------|--------------|--------------|--------------|------------------|--------------------|--------------|
| SCALE: 1"=20' | SHEET 1 OF 2 SHEETS | STA. TO STA. | F.A. RTE. 75 | SECTION 2B-1 | COUNTY CHRISTIAN | TOTAL SHEETS 42    | SHEET NO. 11 |
|               |                     |              |              |              |                  | CONTRACT NO. 72994 | REV - MS     |

MODEL: \$MODELNAME\$  
FILE NAME: D:\22945-Sub-Road and Profile.dgn

Long Section Number



-  PAVEMENT REMOVAL
-  PAVED SHOULDER REMOVAL
-  HMA SURFACE REMOVAL BUTT JOINT
-  TREE REMOVAL



MODEL: 1408061.MXD  
 FILE NAME: D:\2294\2b-1\2b-1.dwg and Profile.dwg

**AMES Engineering, Inc.**  
 CONSULTING ENGINEERS  
 6330 Belmont Road, Suite 4B  
 Downers Grove, IL 60516

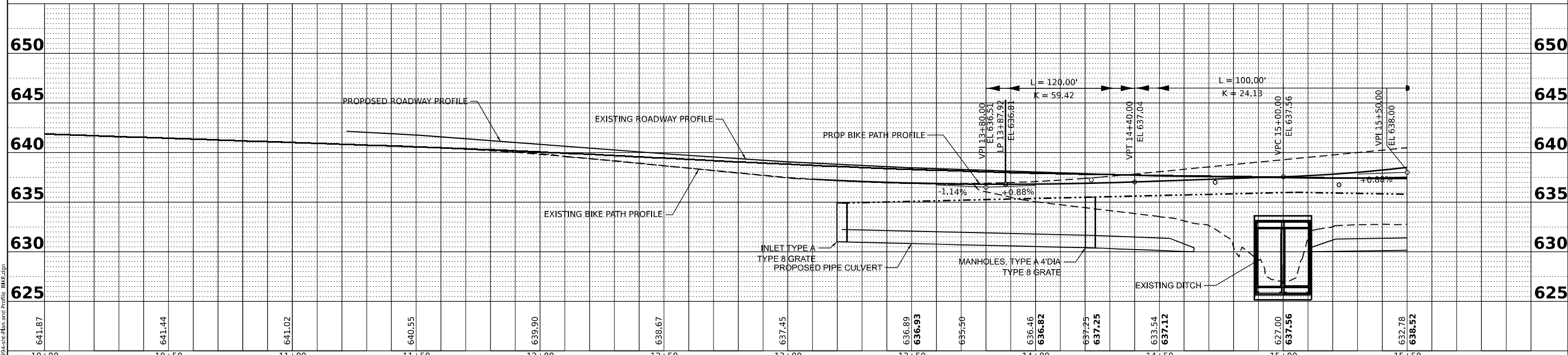
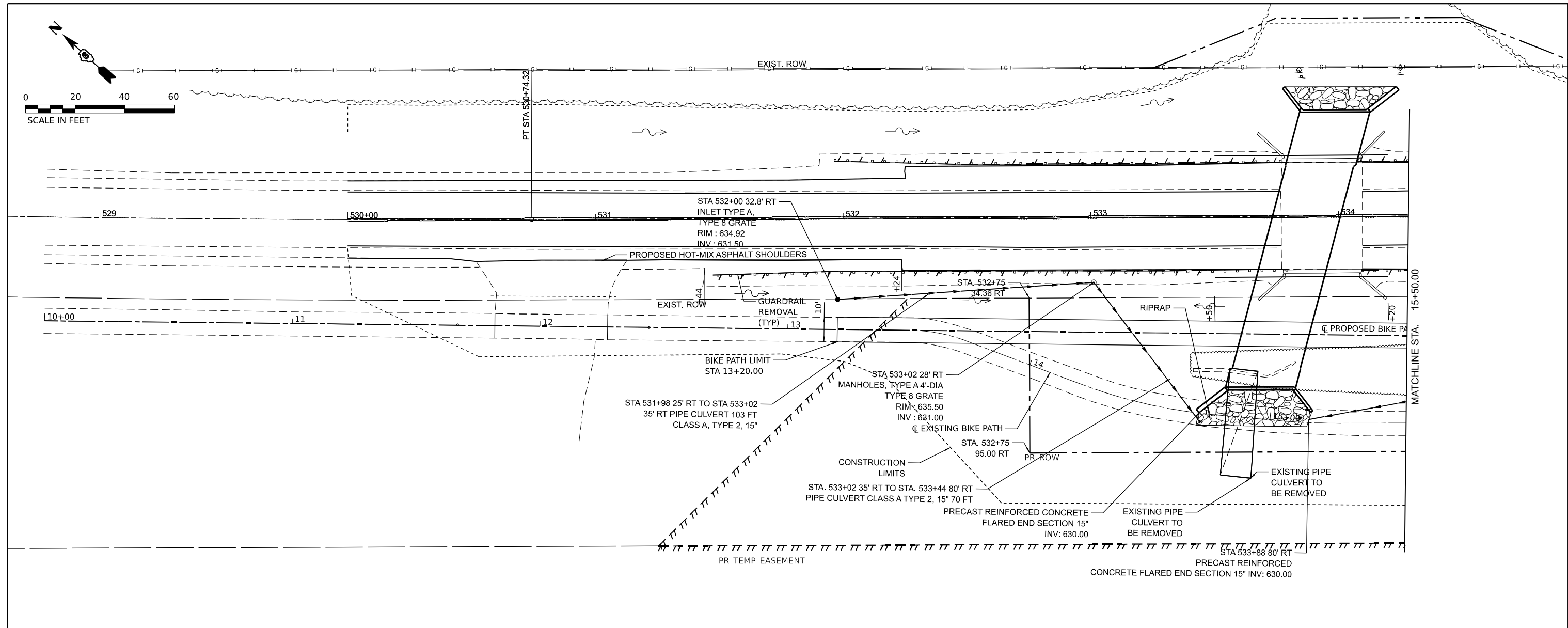
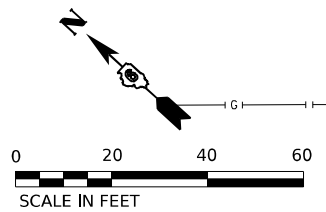
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| PLOT DATE = 07/03/2024 | CHECKED - JAR     | REVISED - |
|                        | DATE - 06-21-2024 | REVISED - |

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**PLAN AND PROFILE - ROADWAY**  
**IL 29 OVER LOCUST CREEK TRIBUTARY**

SCALE: 1"=20'      SHEET 2 OF 2 SHEETS      STA.      TO STA.

|                    |              |                  |                           |              |
|--------------------|--------------|------------------|---------------------------|--------------|
| F.A.P. RTE. 75     | SECTION 2B-1 | COUNTY CHRISTIAN | TOTAL SHEETS 42           | SHEET NO. 12 |
| CONTRACT NO. 72994 |              |                  | ILLINOIS FED. AID PROJECT |              |



MODEL: I:\MODEL\AMES CONSULTING ENGINEERS\DOT29\29-Sub-Rhs and Profile\_Bike.dgn

**AMES Engineering, Inc.**  
CONSULTING ENGINEERS  
6330 Belmont Road, Suite 4B  
Downers Grove, IL 60516

USER NAME = msomer  
PLOT SCALE = \$SCALE\$  
PLOT DATE = 07/03/2024

DESIGNED - MLS  
DRAWN - MS  
CHECKED - JAR  
DATE -

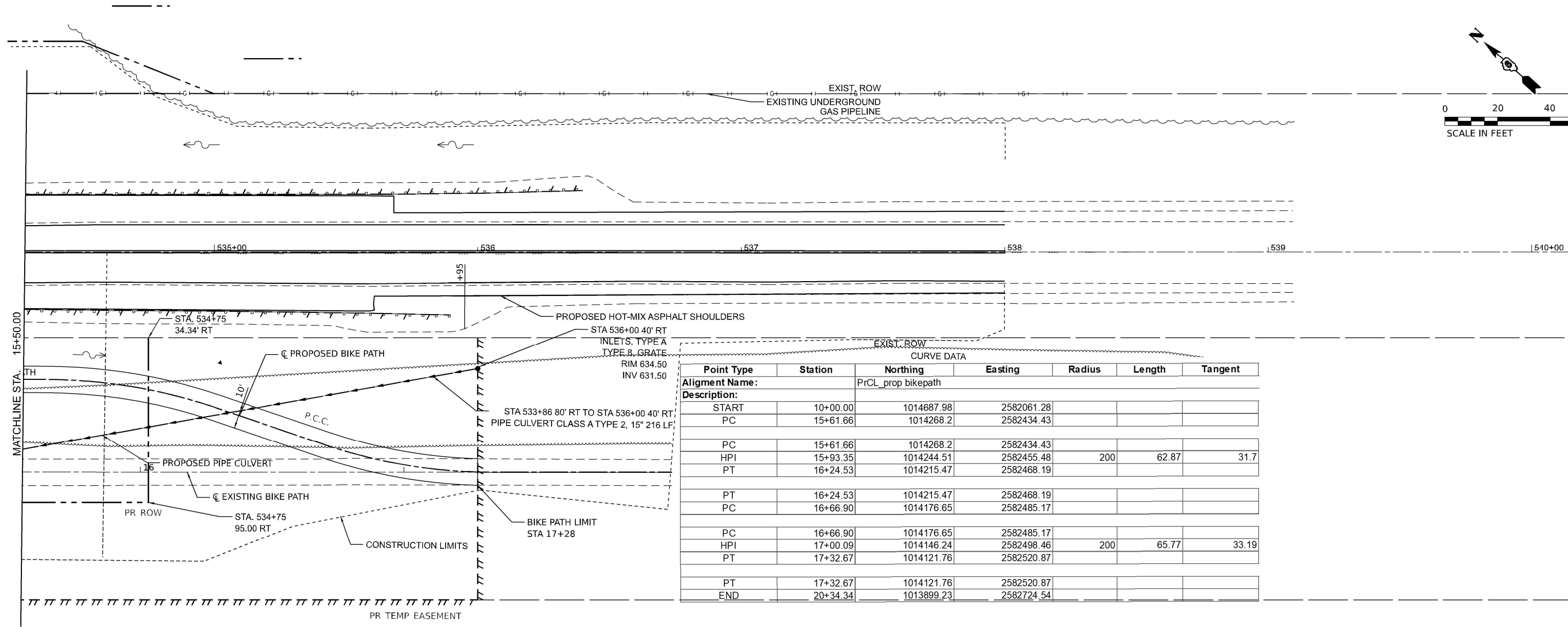
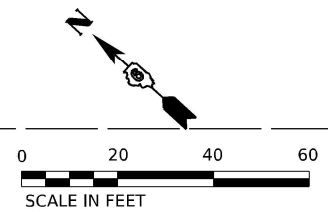
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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

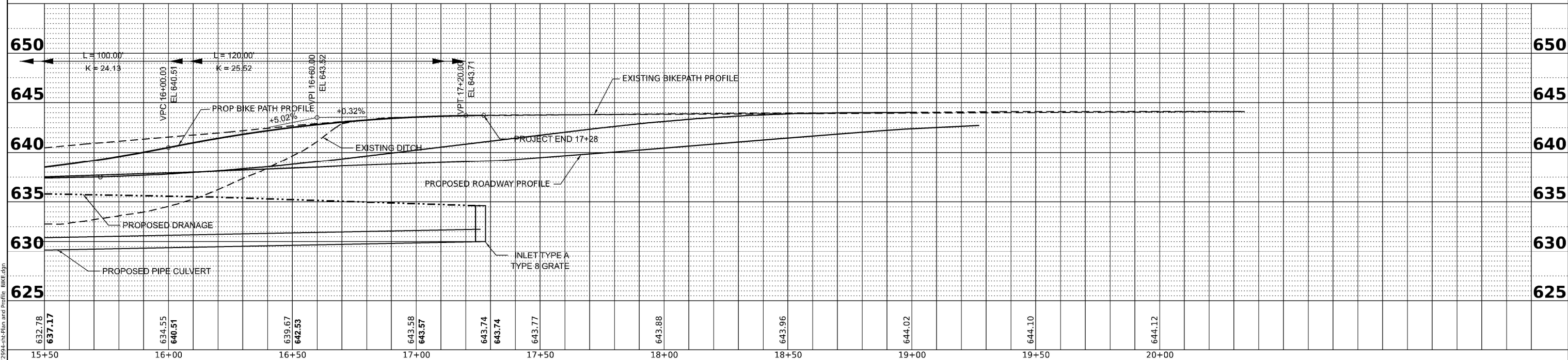
**PLAN AND PROFILE - BIKE PATH  
IL 29 OVER LOCUST CREEK TRIBUTARY**

SCALE: SHEET OF SHEETS STA. TO STA.

|                           |              |                  |                 |              |
|---------------------------|--------------|------------------|-----------------|--------------|
| F.A.P. RTE. 75            | SECTION 28-1 | COUNTY CHRISTIAN | TOTAL SHEETS 42 | SHEET NO. 13 |
| CONTRACT NO. 72994        |              |                  |                 |              |
| ILLINOIS FED. AID PROJECT |              |                  |                 |              |



| Point Type                                | Station  | Northing   | Easting    | Radius | Length | Tangent |
|---|----------|------------|------------|--------|--------|---------|
| <b>Alignment Name:</b> PrCL_prop bikepath |          |            |            |        |        |         |
| <b>Description:</b>                       |          |            |            |        |        |         |
| START                                     | 10+00.00 | 1014687.98 | 2582061.28 |        |        |         |
| PC  | 15+61.66 | 1014268.2  | 2582434.43 |        |        |         |
| PC  | 15+61.66 | 1014268.2  | 2582434.43 |        |        |         |
| HPI                                       | 15+93.35 | 1014244.51 | 2582455.48 | 200    | 62.87  | 31.7    |
| PT  | 16+24.53 | 1014215.47 | 2582468.19 |        |        |         |
| PT  | 16+24.53 | 1014215.47 | 2582468.19 |        |        |         |
| PC  | 16+66.90 | 1014176.65 | 2582485.17 |        |        |         |
| PC  | 16+66.90 | 1014176.65 | 2582485.17 |        |        |         |
| HPI                                       | 17+00.09 | 1014146.24 | 2582498.46 | 200    | 65.77  | 33.19   |
| PT  | 17+32.67 | 1014121.76 | 2582520.87 |        |        |         |
| PT  | 17+32.67 | 1014121.76 | 2582520.87 |        |        |         |
| END                                       | 20+34.34 | 1013899.23 | 2582724.54 |        |        |         |



MODEL: \\MODEL\B1\AME\B1\AME.dwg  
 FILE NAME: D:\2024\11-28-24\Bike Path and Profile - BIKE.dwg

**AMES Engineering, Inc.**  
 CONSULTING ENGINEERS  
 6330 Belmont Road, Suite 4B  
 Downers Grove, IL 60516

USER NAME = msomer  
 PLOT SCALE = \$SCALE\$  
 PLOT DATE = 07/03/2024

DESIGNED - MLS  
 DRAWN - MS  
 CHECKED - JAR  
 DATE -

REVISED -  
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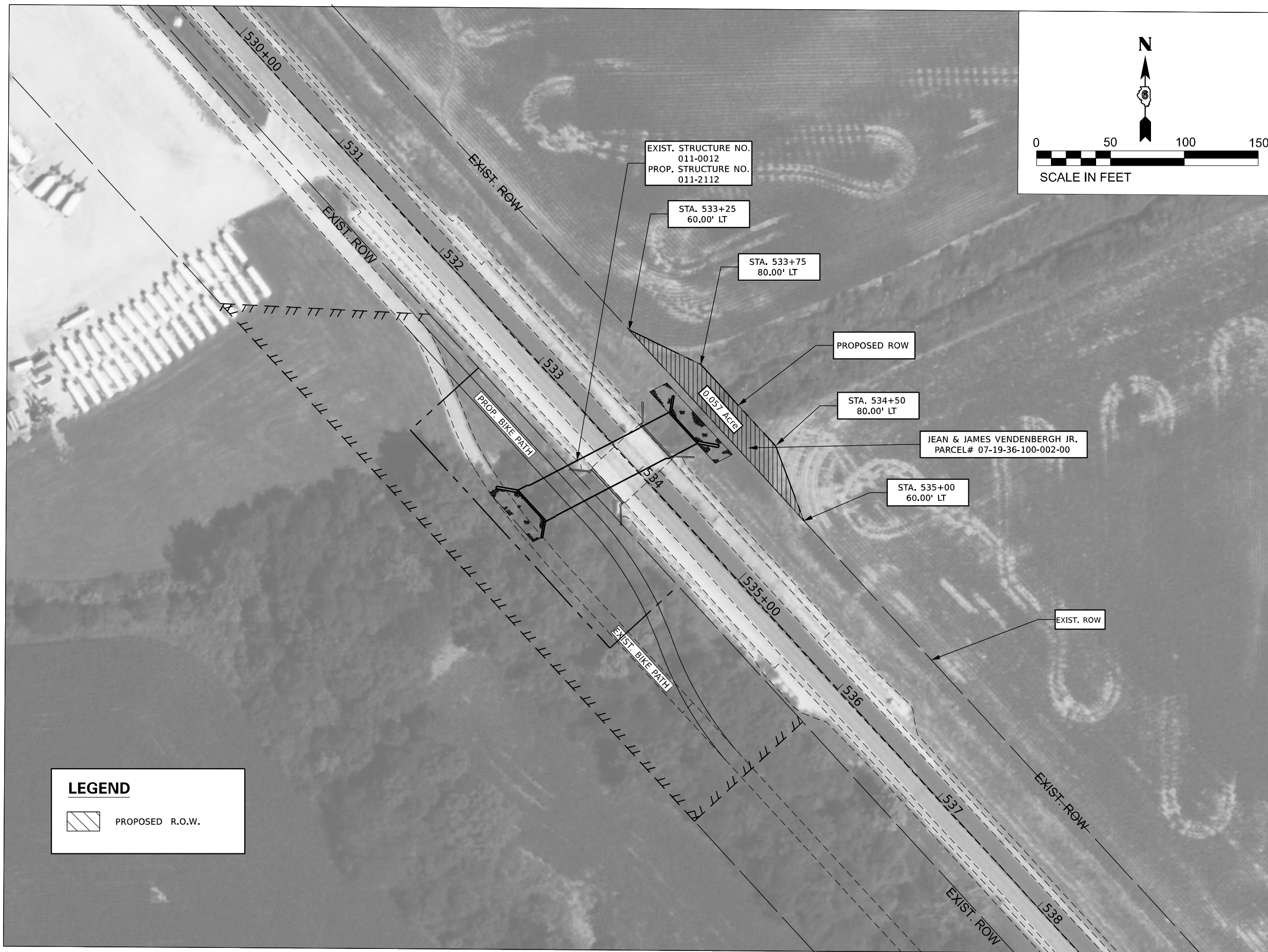
**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**PLAN AND PROFILE - BIKE PATH**  
**IL 29 OVER LOCUST CREEK TRIBUTARY**


SCALE: SHEET OF SHEETS STA. TO STA.

|                           |         |           |              |           |
|---------------------------|---------|-----------|--------------|-----------|
| F.A.P. RTE.               | SECTION | COUNTY    | TOTAL SHEETS | SHEET NO. |
| 75                        | 28-1    | CHRISTIAN | 42           | 14        |
| CONTRACT NO. 72994        |         |           |              |           |
| ILLINOIS FED. AID PROJECT |         |           |              |           |





**LEGEND**

 PROPOSED R.O.W.

MODEL: 140081\AMES  
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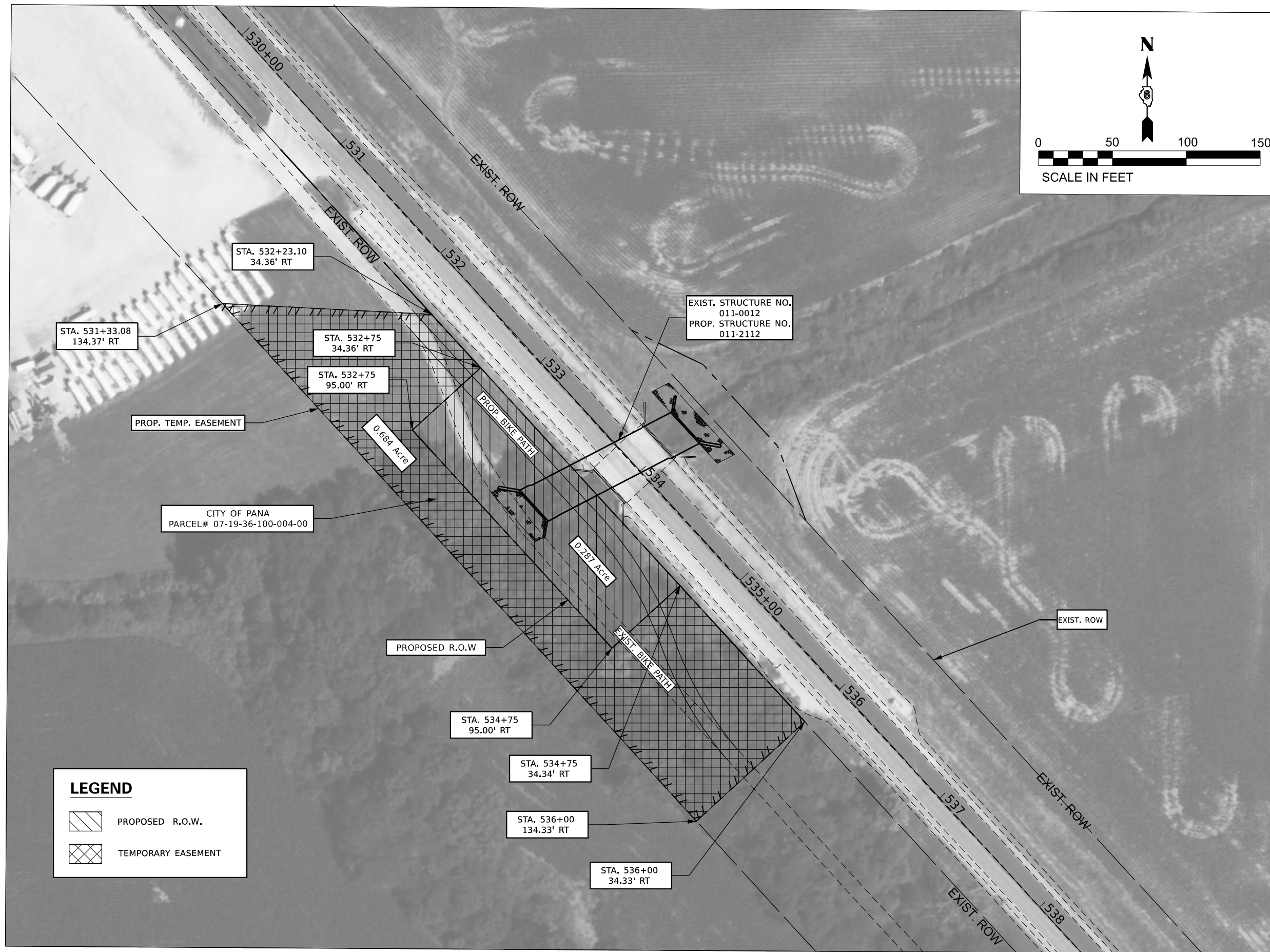
**AMES Engineering, Inc.**  
CONSULTING ENGINEERS  
6330 Belmont Road, Suite 4B  
Downers Grove, IL 60516

|                        |                   |           |
|------------------------|-------------------|-----------|
| USER NAME = msomer     | DESIGNED - MS     | REVISED - |
|                        | DRAWN - SR, MA    | REVISED - |
| PLOT SCALE = \$SCALE\$ | CHECKED - JAR     | REVISED - |
| PLOT DATE = 07/02/2024 | DATE - 06-21-2024 | REVISED - |

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

|  |       |           |              |
|--|-------|-----------|--------------|
| <b>ROW EXHIBIT - 1</b>                     |       |           |              |
| <b>IL - 29 OVER LOCUST CREEK TRIBUTARY</b> |       |           |              |
| SCALE:                                     | SHEET | OF SHEETS | STA. TO STA. |

|                           |              |                  |                 |              |
|---------------------------|--------------|------------------|-----------------|--------------|
| F.A.P. RTE. 75            | SECTION 2B-1 | COUNTY CHRISTIAN | TOTAL SHEETS 42 | SHEET NO. 15 |
| CONTRACT NO. 72994        |              |                  |                 |              |
| ILLINOIS FED. AID PROJECT |              |                  |                 |              |



**LEGEND**

|  |                    |
|--|--------------------|
|  | PROPOSED R.O.W.    |
|  | TEMPORARY EASEMENT |

MODEL: \\MODEL\AMES  
 FILE NAME: D:\72994-ROW Exhibit-2.dgn

**AMES Engineering, Inc.**  
 CONSULTING ENGINEERS  
 6330 Belmont Road, Suite 4B  
 Downers Grove, IL 60516

|                        |                   |           |
|------------------------|-------------------|-----------|
| USER NAME = msomer     | DESIGNED - MS     | REVISED - |
| PLOT SCALE = \$SCALE\$ | DRAWN - SR, MA    | REVISED - |
| PLOT DATE = 07/02/2024 | CHECKED - JAR     | REVISED - |
|                        | DATE - 06-21-2024 | REVISED - |

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

|  |       |           |              |
|--|-------|-----------|--------------|
| <b>ROW EXHIBIT - 2</b>                     |       |           |              |
| <b>IL - 29 OVER LOCUST CREEK TRIBUTARY</b> |       |           |              |
| SCALE:                                     | SHEET | OF SHEETS | STA. TO STA. |

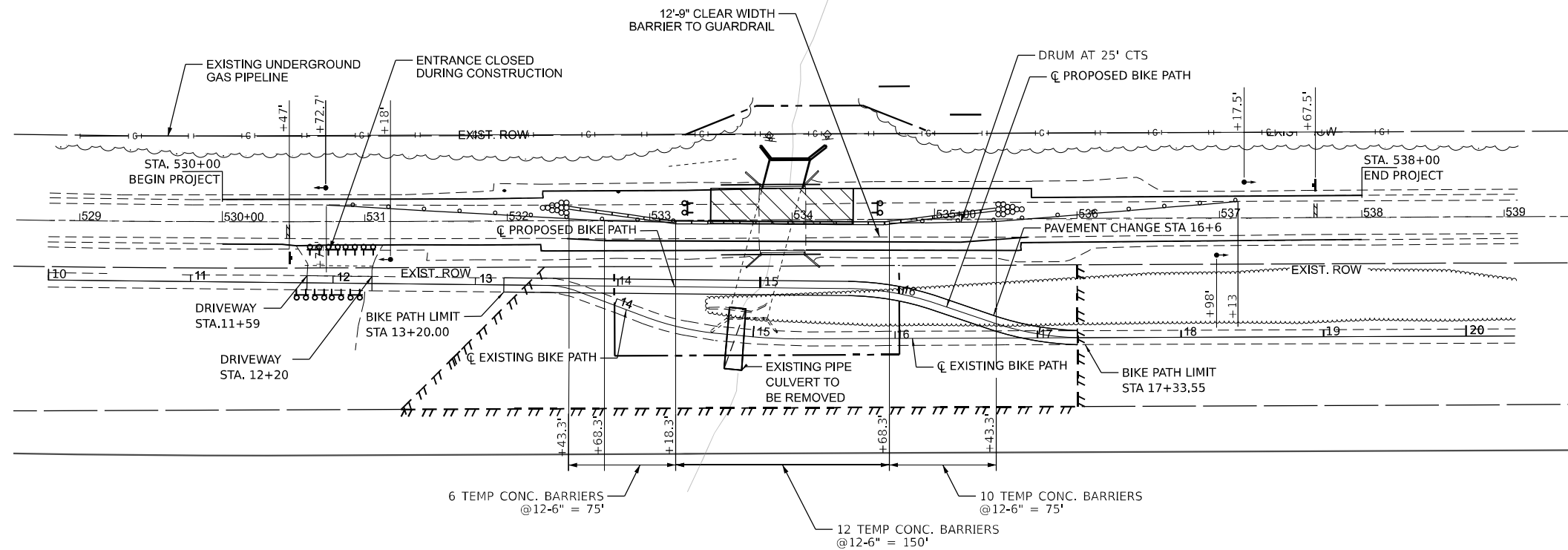
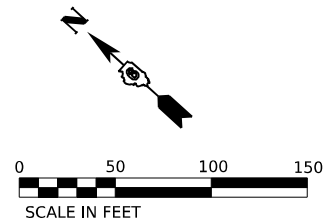
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| F.A.P. RTE. 75            | SECTION 2B-1 | COUNTY CHRISTIAN | TOTAL SHEETS 42 | SHEET NO. 16 |
| CONTRACT NO. 72994        |              |                  |                 |              |
| ILLINOIS FED. AID PROJECT |              |                  |                 |              |











**STAGE - 2**

**NOTE:**

SEE STANDARD 701321 FOR ADDITIONAL DETAILS.

**SYMBOLS**

- WORK AREA
- SIGN
- TYPE III BARRICADE WITH FLASHING LIGHTS
- TRAFFIC SIGNAL
- IMPACT ATTENUATOR
- DRUM WITH STEADY BURNING BI DIRECTIONAL LIGHT
- TEMPORARY CONCRETE BARRIER
- TEMPORARY RUMBLE STRIP ( WHEN SPECIFIED)
- CRYSTAL BIDIRECTIONAL GUADRIL WALL REFLECTOR

MODEL: 140821.MXD  
 FILE NAME: D072924-28-MOT-2.dgn

**AMES Engineering, Inc.**  
 CONSULTING ENGINEERS  
 6330 Belmont Road, Suite 4B  
 Downers Grove, IL 60516

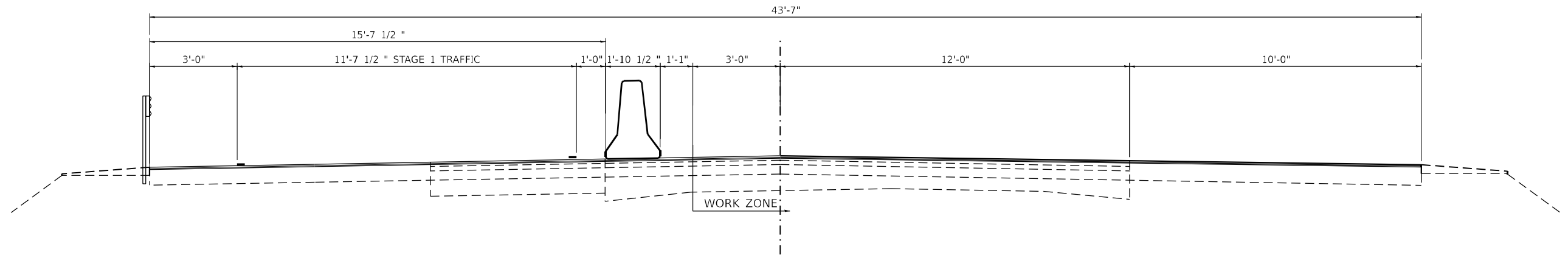
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| PLOT DATE = 07/03/2024 | CHECKED - JAR     | REVISED - |
|                        | DATE - 06-21-2024 | REVISED - |

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

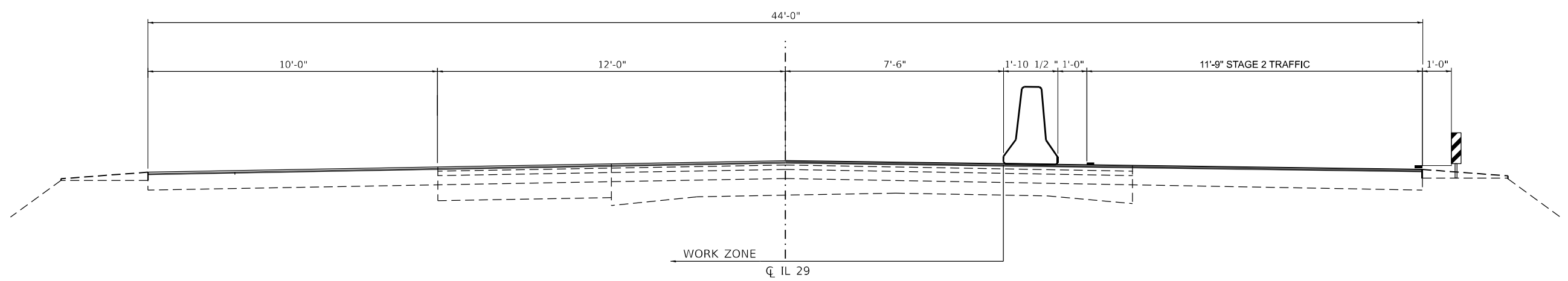
**MAINTENANCE OF TRAFFIC STAGING PLAN STAGE - 2**  
**IL - 29 OVER LOCUST CREEK TRIBUTARY**

SCALE: 1" = 50' SHEET 1 OF 2 SHEETS STA. TO STA.

| F.A.P. RTE.               | SECTION | COUNTY    | TOTAL SHEETS | SHEET NO. |
|---------------------------|---------|-----------|--------------|-----------|
| 75                        | 2B - 1  | CHRISTIAN | 42           | 20        |
| CONTRACT NO. 72994        |         |           |              |           |
| ILLINOIS FED. AID PROJECT |         |           |              |           |



**STAGE 1 TYPICAL**



**STAGE 2 TYPICAL**

MODEL: 414081E1.MXD  
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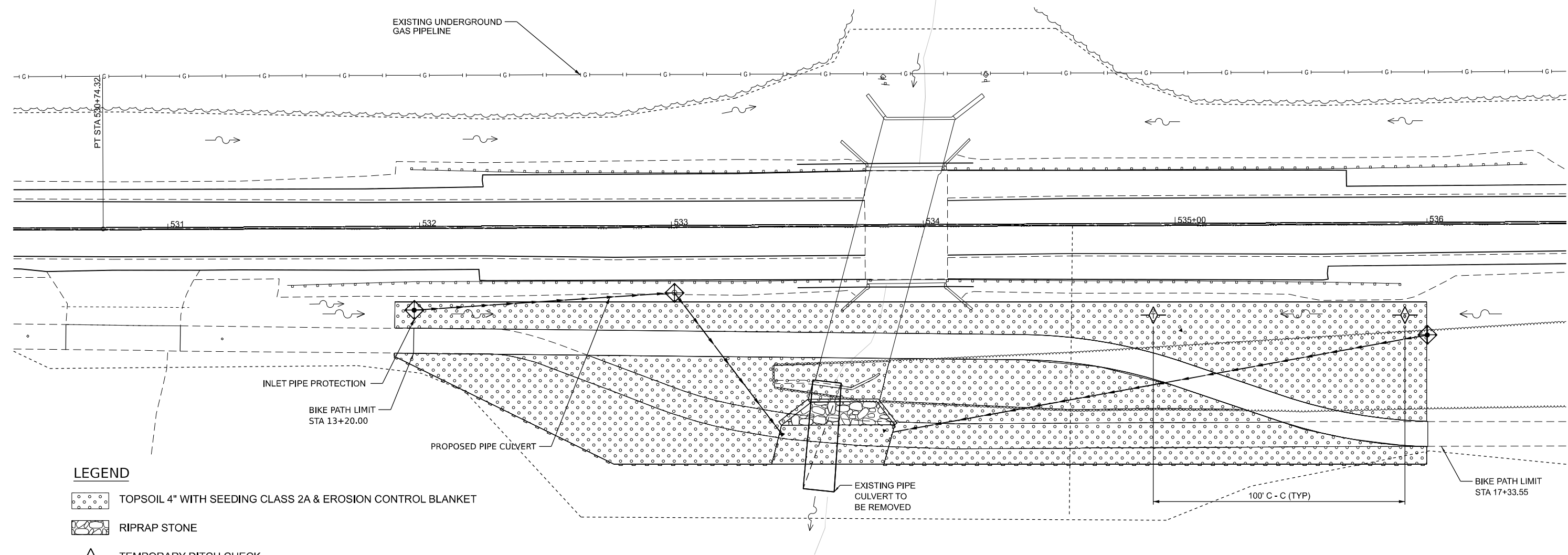
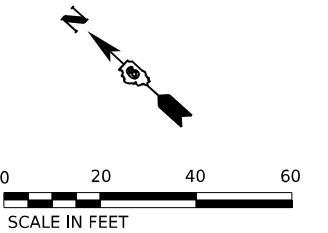
**AMES Engineering, Inc.**  
 CONSULTING ENGINEERS  
 6330 Belmont Road, Suite 4B  
 Downers Grove, IL 60516

|                        |                   |           |
|------------------------|-------------------|-----------|
| USER NAME = msomer     | DESIGNED - MS     | REVISED - |
| PLOT SCALE = \$SCALE\$ | DRAWN - SR, MA    | REVISED - |
| PLOT DATE = 07/02/2024 | CHECKED - JAR     | REVISED - |
|                        | DATE - 06-21-2024 | REVISED - |






**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

|  |       |           |              |
|--|-------|-----------|--------------|
| <b>MAINTENANCE OF TRAFFIC STAGING TYPICALS</b><br><b>IL - 29 OVER LOCUST CREEK TRIBUTARY</b> |       |           |              |
| SCALE:   | SHEET | OF SHEETS | STA. TO STA. |

| F.A.P. RTE.               | SECTION | COUNTY    | TOTAL SHEETS | SHEET NO. |
|---------------------------|---------|-----------|--------------|-----------|
| 75                        | 2B-1    | CHRISTIAN | 42           | 21        |
| CONTRACT NO. 72994        |         |           |              |           |
| ILLINOIS FED. AID PROJECT |         |           |              |           |



**LEGEND**

-  TOPSOIL 4" WITH SEEDING CLASS 2A & EROSION CONTROL BLANKET
-  RIPRAP STONE
-  TEMPORARY DITCH CHECK
-  INLET AND PIPE PROTECTION
-  PERIMETER EROSION BARRIER

**STAGE - 1**

MODEL: 1409BELMAME  
FILE NAME: D072924-01-ESC.dgn

**AMES Engineering, Inc.**  
CONSULTING ENGINEERS  
6330 Belmont Road, Suite 4B  
Downers Grove, IL 60516

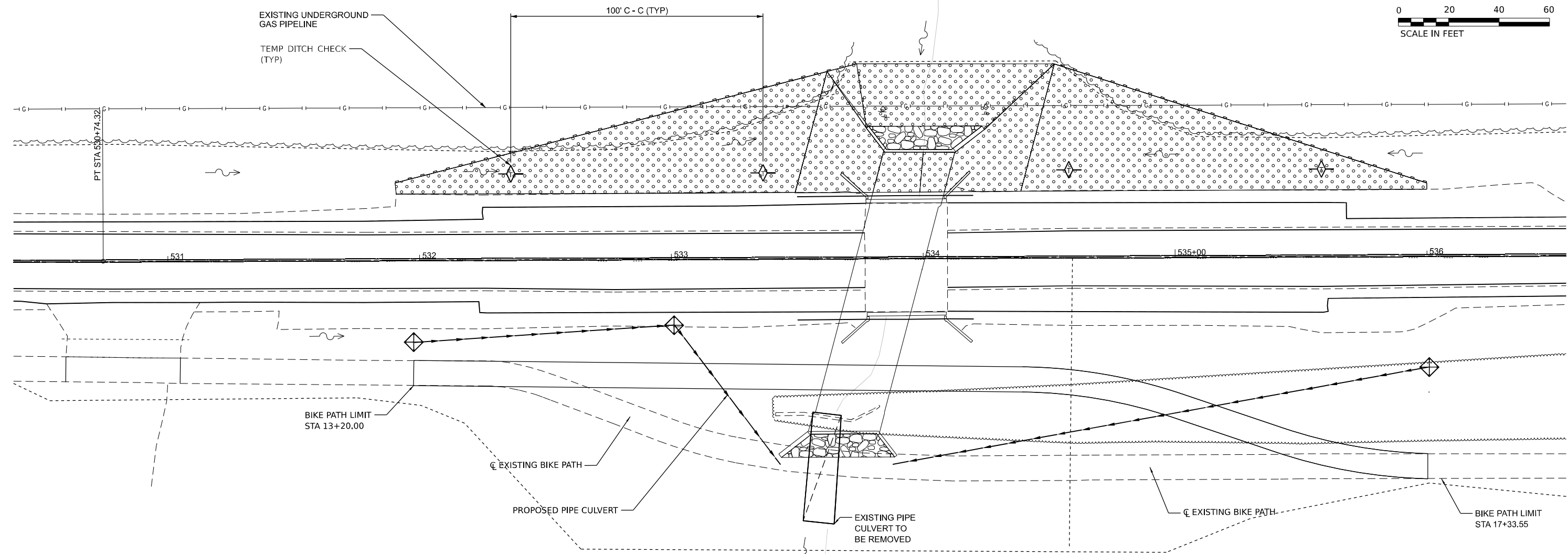
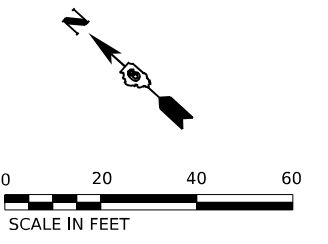
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| PLOT DATE = 07/02/2024 | DATE - 06-21-2024 | REVISED - |

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**EROSION CONTROL PLAN  
IL - 29 OVER LOCUST CREEK TRIBUTARY**

SCALE: 1"=20'    SHEET 1 OF 2 SHEETS    STA.    TO STA.

|                           |              |                  |                 |              |
|---------------------------|--------------|------------------|-----------------|--------------|
| F.A.P. RTE. 75            | SECTION 2B-1 | COUNTY CHRISTIAN | TOTAL SHEETS 42 | SHEET NO. 22 |
| CONTRACT NO. 72994        |              |                  |                 |              |
| ILLINOIS FED. AID PROJECT |              |                  |                 |              |



- LEGEND**
- TOPSOIL 4" WITH SEEDING CLASS 2A & EROSION CONT
  - RIPRAP STONE
  - TEMPORARY DITCH CHECK
  - INLET AND PIPE PROTECTION
  - PERIMETER EROSION BARRIER

**STAGE - 2**

MODEL: 1409BELMAME  
FILE NAME: D072994-ESC.dgn

**AMES Engineering, Inc.**  
CONSULTING ENGINEERS  
6330 Belmont Road, Suite 4B  
Downers Grove, IL 60516

|                        |                   |           |
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| USER NAME = msomer     | DESIGNED - MS     | REVISED - |
|                        | DRAWN - SR, MA    | REVISED - |
| PLOT SCALE = \$SCALE\$ | CHECKED - JAR     | REVISED - |
| PLOT DATE = 07/02/2024 | DATE - 06-21-2024 | REVISED - |

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**EROSION CONTROL PLAN  
IL - 29 OVER LOCUST CREEK TRIBUTARY**

SCALE: 1"=20'    SHEET 2 OF 2 SHEETS    STA.    TO STA.

| F.A.P. RTE.               | SECTION | COUNTY    | TOTAL SHEETS | SHEET NO. |
|---------------------------|---------|-----------|--------------|-----------|
| 75                        | 2B-1    | CHRISTIAN | 42           | 23        |
| CONTRACT NO. 72994        |         |           |              |           |
| ILLINOIS FED. AID PROJECT |         |           |              |           |

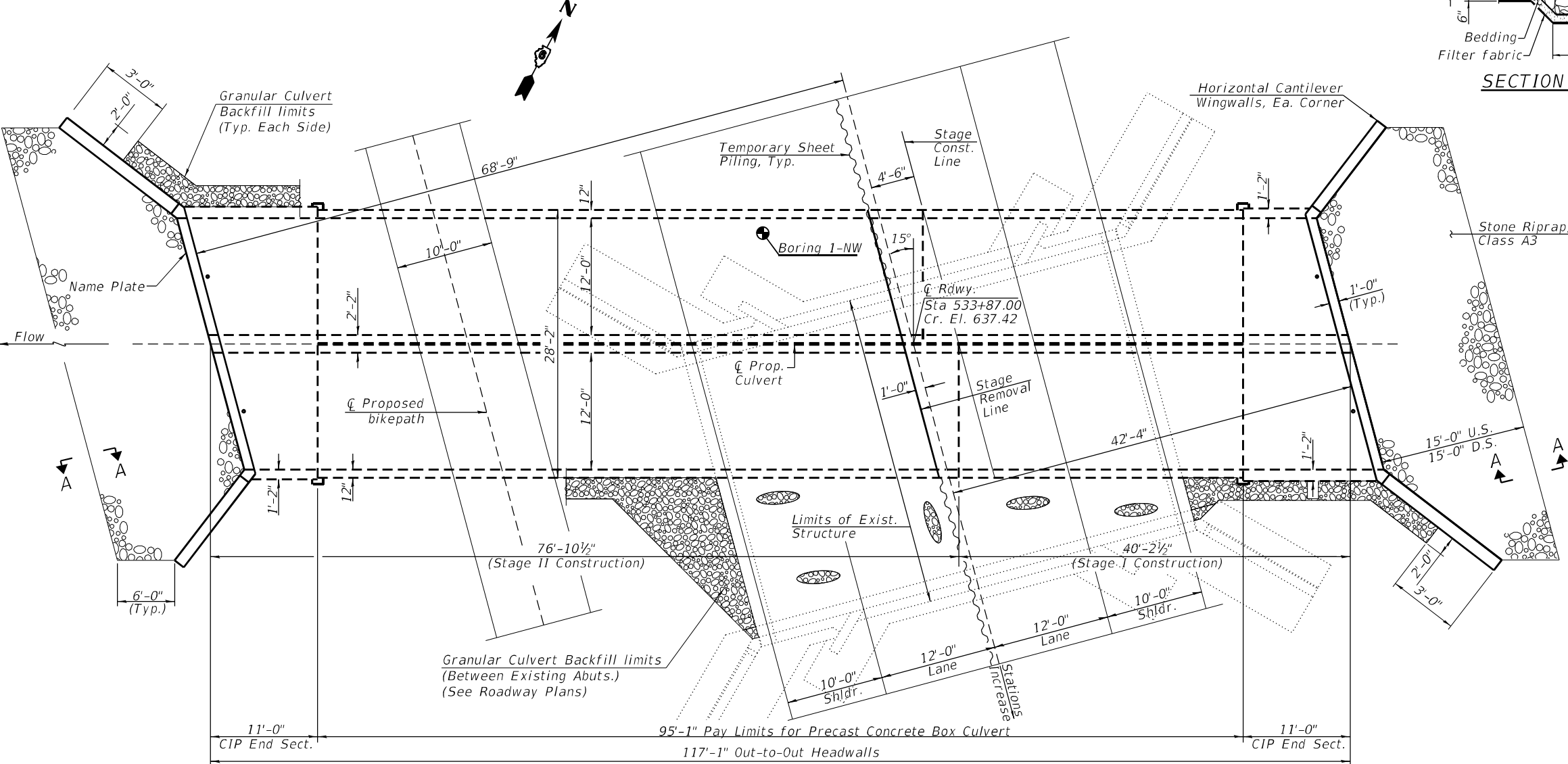
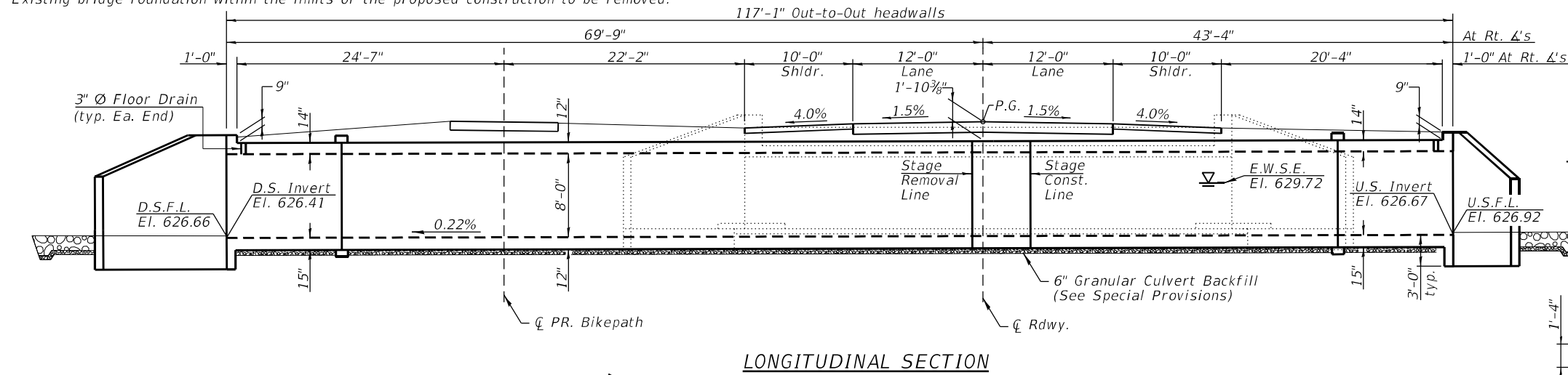
B.M. 1001 Chiseled "□" on top of Northeast headwall of SN 011-0012 along IL Route 29. Elev. 637.28

Existing Structure: S.N. 011-0012 originally built under SBI Route 24 under Section 2,3 in 1924. The substructure and superstructure was widened in 1958 as SBI Route 24, Section 2,3W. The structure is a single span concrete slab structure with a length of 32'-0" measured from back to back abutments with an out-to-out width of 46'-3" at 0° skew.

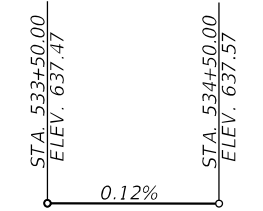
Traffic to be maintained utilizing Stage Construction.  $\bar{C}$  Structure Sta. 533+87.

No Salvage.

Existing bridge foundation within the limits of the proposed construction to be removed.



- INDEX OF SHEETS**
1. General Plan and Elevation
  2. General Data
  3. Stage Construction Details I
  4. Stage Construction Details II
  5. Temporary Barrier for Stage Const.
  6. Culvert Details I
  7. Culvert Details II
  8. Soil Borings
  9. Existing Structure Plans



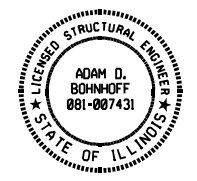
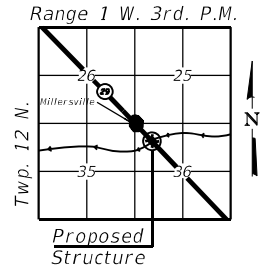
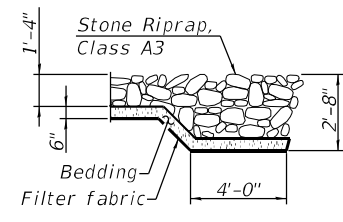
**LOADING HL-93**  
Allow 50#/sq. ft. for future wearing surface

**DESIGN SPECIFICATIONS**  
2020 AASHTO LRFD Bridge Design Specifications, 9th Edition

**DESIGN STRESSES**

**FIELD UNITS**  
f'c = 3,500 psi  
fy = 60,000 psi (Reinforcement)

**PRECAST UNITS**  
f'c = 5,000 psi  
fy = 65,000 psi (Welded Wire Fabric)



Adam Bohnhoff July 1, 2024  
Date  
Adam D. Bohnhoff  
Licensed Structural Engineer  
State of Illinois No. 081-007431  
Expires 11-30-2024

**GENERAL PLAN & ELEVATION**  
**IL RTE 29 OVER TRIB.**  
**TO LOCUST CREEK**  
**F.A.P. RTE 75 - SECTION 2B-1**  
**CHRISTIAN COUNTY**  
**STATION 533+87.00**  
**STRUCTURE NO. 011-2112**

MODEL: Defaul... FILE NAME: 2024050515002511X15008 - IDOT\_PTB\_199-30\_06\_Kuhn & Trethow\0624\Structures\CADD\87299\40112112\_01-CGF.dwg



|                              |                         |           |
|------------------------------|-------------------------|-----------|
| USER NAME = abohnhoff        | DESIGNED - J. GENTILINI | REVISED - |
| PLOT SCALE = 20,0000 * / in. | DRAWN - J. GENTILINI    | REVISED - |
| PLOT DATE = 6/24/2024        | CHECKED - A. BOHNHOFF   | REVISED - |
|                              | DATE - 6/21/24          | REVISED - |

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**GENERAL PLAN & ELEVATION**  
**STRUCTURE NO. 011-2112**

SCALE: SHEET 1 OF 9 SHEETS STA. TO STA.

| F.A.P. RTE.               | SECTION | COUNTY    | TOTAL SHEETS       | SHEET NO. |
|---------------------------|---------|-----------|--------------------|-----------|
| 75                        | 2B-1    | CHRISTIAN | 42                 | 24        |
| ILLINOIS FED. AID PROJECT |         |           | CONTRACT NO. 72994 |           |

**TOTAL BILL OF MATERIAL**

| ITEM  | UNIT    | TOTAL  |
|---|---------|--------|
| Granular Culvert Backfill                           | Cu. Yd. | 210    |
| Stone Riprap, Class A3                              | Ton     | 157    |
| Filter Fabric                                       | Sq. Yd. | 135    |
| Removal of Existing Structures                      | Each    | 1      |
| * Reinforcement Bars, Epoxy Coated                  | Pound   | 18,350 |
| Name Plates   | Each    | 1      |
| Temporary Sheet Piling                              | Sq. Ft. | 736    |
| * Concrete Box Culverts                             | Cu. Yd. | 123.7  |
| Geocomposite Wall Drain                             | Sq. Yd. | 420    |
| Precast Concrete Box Culverts 12' x 8'              | Feet    | 190.2  |
| Membrane Waterproofing System for Buried Structures | Sq. Yd. | 420    |
| Temporary Support System                            | L. Sum  | 1      |
| Box Culvert End Sections, Culvert No. 1             | Each    | 2      |

\* Quantities for Information Only. Quantities are included with Box Culvert End Sections, Culvert No. 1.

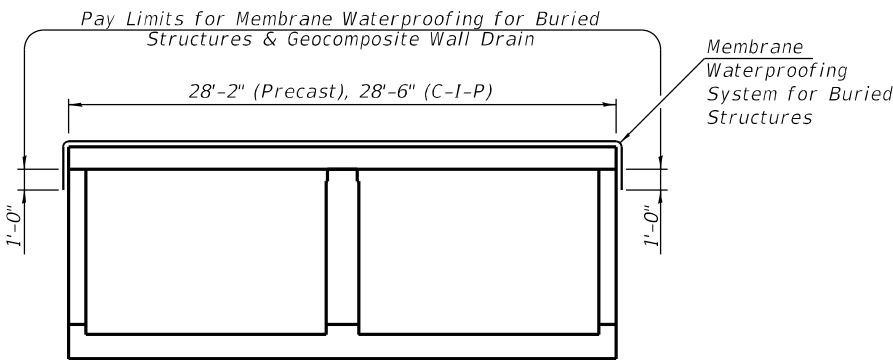
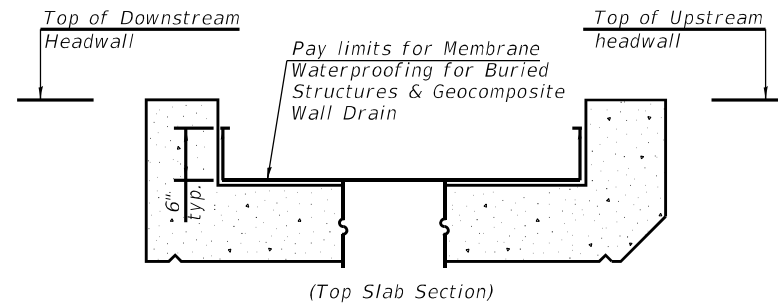
**Notes:**

See roadway plans for quantities of Temporary Concrete Barrier, Earth Excavation, and Pavement Removal.

Excavation for construction of the box culvert, including the excavation necessary to construct the granular backfill is included in the Earth Excavation quantity, see roadway plans.

STATION 533+87.00  
BUILT 20\_\_ BY  
STATE OF ILLINOIS  
F.A.P. RTE. 75 - SEC. 2B-1  
LOADING HL-93  
STR. NO. 011-2112

**NAME PLATE**  
(Std. 515001)



**MEMBRANE WATERPROOFING FOR BURIED STRUCTURES**

Note: Membrane waterproofing & Geocomposite wall drain for Culvert shall cover top of the top slab, top one foot of side walls (below top slab joint), and 6 inches up inside face of headwalls.

**GENERAL NOTES**

The design fill height for this box is 1.87 ft. The precast box culvert sections shall conform to the requirements of ASTM C1577.

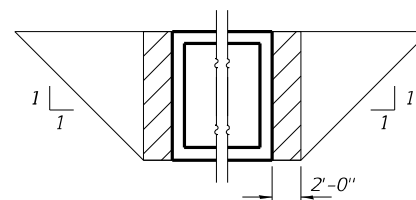
Drain holes shall be provided on exterior culvert walls for each precast box segment with a clear rise greater than 3 ft. The drain hole shall be located within 1/3 of the clear rise of the box culvert, shall not intercept the haunch, and shall conform to the requirements of Article 503.11 of the Standard Specifications.

Precast concrete box culverts and box culvert end sections shall be backfilled with Granular Culvert Backfill in the required excavation areas on the sides of the box culvert from the top of the box culvert to the bottom of the box culvert. This area of Granular Culvert Backfill is included in the Granular Culvert Backfill pay item. The 6-inch thick layer of granular material required under the precast concrete box culvert, according to Section 540.06 of the standard specifications, shall also apply to the end sections. Cost of this granular backfill material will not be paid for separately but shall be included in the unit price of the work for which it is required.

Layout of the slope protection system may be varied to suit ground conditions in the field as directed by the Engineer.

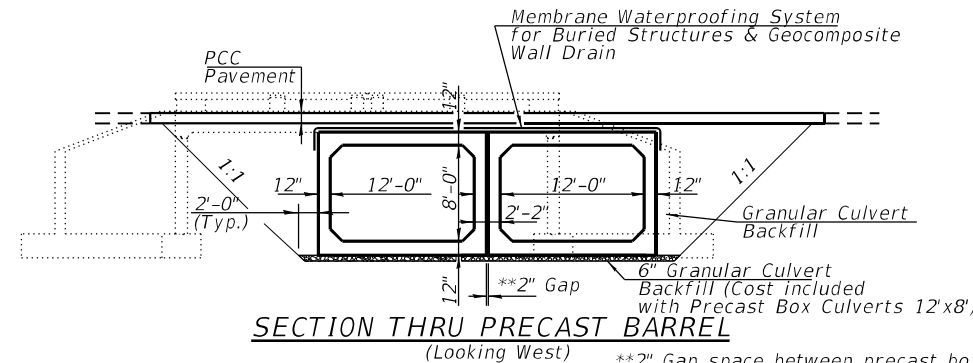
Reinforcement bars designated (E) shall be epoxy coated.

Excavation behind existing abutment walls shall be performed to balance front and back soil pressure before removing the existing superstructure. The Contractor shall sawcut the upper portion of the existing abutment at the stage removal line before Stage I removal to ensure the remaining portion will not be prematurely damaged.

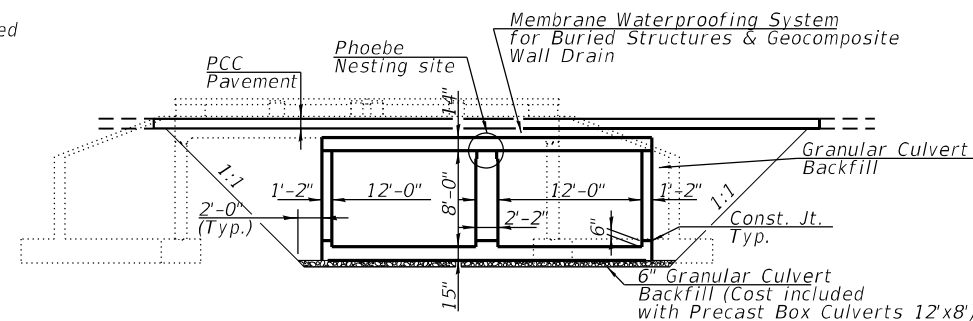


**PAY LIMITS FOR GRANULAR CULVERT BACKFILL**

(Hatched area)



\*\*2" Gap space between precast box culverts to be filled with non-shrink grout. Cost to be included with Precast Concrete Box Culverts 12'x8'



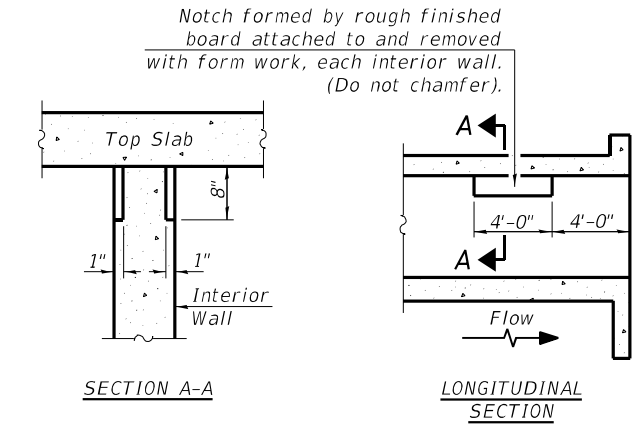
**SECTION THRU CAST-IN-PLACE BARREL**

(Looking West)

**WATERWAY INFORMATION**

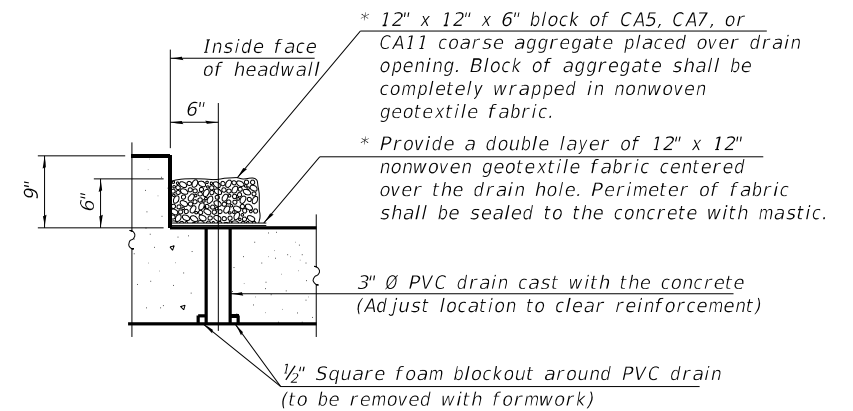
| Flood          | Freq. Yr. | Q C.F.S. | Opening Sq. Ft. Exist. | Prop. | Nat. H.W.E. | Head - Ft. |       | Headwater El. |       |
|----------------|-----------|----------|------------------------|-------|-------------|------------|-------|---------------|-------|
|                |           |          |                        |       |             | Exist.     | Prop. | Exist.        | Prop. |
|                |           |          |                        |       |             | 0.5        | 0.0   | 634.2         | 633.7 |
| Design         | 50        | 710      | 180                    | 186   | 633.7       | 1.1        | 0.1   | 635.9         | 634.9 |
| Base           | 100       | 831      | 182                    | 186   | 635.2       | 1.6        | 0.3   | 636.8         | 635.5 |
| Overtop Exist. | 110       | 851      | 182                    | 186   | 635.3       | 1.7        | 0.3   | 637.0         | 635.6 |
| Scour Check    | 200       | 953      | 182                    | 186   | 635.6       | 2.1        | 0.5   | 637.7         | 636.0 |
| Max. Calc.     | 500       | 1,120    | 182                    | 186   | 636.0       | 2.3        | 0.8   | 638.3         | 636.8 |

10 Yr. Outlet Velocity through Exist. Structure = 2.8 ft/s  
10 Yr. Outlet Velocity through Prop. Structure = 2.5 ft/s



**PHOEBE NESTING SITE DETAILS**  
(Downstream End Only)

\* Nonwoven geotextile fabric shall conform to the requirements of Article 1080.01 of the Standard Specifications. The minimum weight of the fabric shall be 6 ounces per square yard.



(All costs associated with furnishing and constructing the above drain detail will not be measured for payment but shall be included in the contract unit price for the associated work.)

MODEL Path: \\... FILE NAME: 2025030509251XX15008 - IDOT P... 1990.30 DB Kuhn & Trethow\0624\Structures\CADD\872994\0112\12\_02-General Data.dgn



|                             |                         |           |
|-----------------------------|-------------------------|-----------|
| USER NAME = abohnhoff       | DESIGNED - J. GENTILINI | REVISED - |
|                             | DRAWN - J. GENTILINI    | REVISED - |
| PLOT SCALE = 20,0000 */ in. | CHECKED - A. BOHNHOFF   | REVISED - |
| PLOT DATE = 6/24/2024       | DATE - 06/21/2024       | REVISED - |

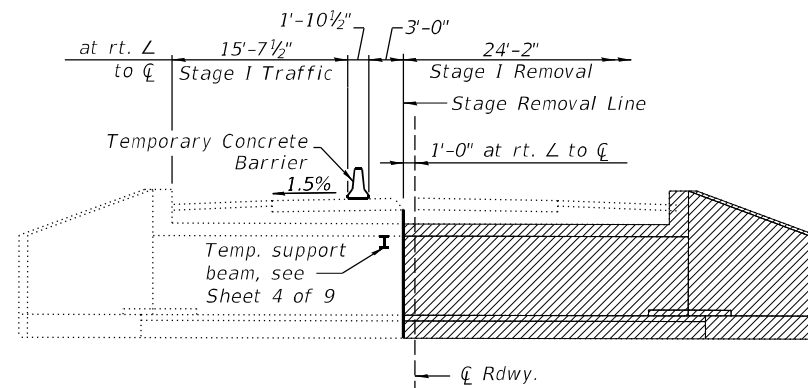
**STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION**

|                               |                                  |
|-------------------------------|----------------------------------|
| <b>GENERAL DATA</b>           |                                  |
| <b>STRUCTURE NO. 011-2112</b> |                                  |
| SCALE:                        | SHEET 2 OF 9 SHEETS STA. TO STA. |

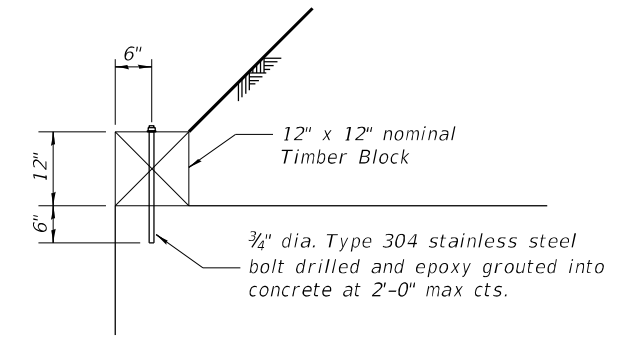
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|---------------------------|--------------|------------------|-----------------|--------------|
| F.A.P. RTE. 75            | SECTION 2B-1 | COUNTY CHRISTIAN | TOTAL SHEETS 42 | SHEET NO. 25 |
| CONTRACT NO. 72994        |              |                  |                 |              |
| ILLINOIS FED. AID PROJECT |              |                  |                 |              |

**STAGE CONSTRUCTION NOTES:**

1. All staging sections, looking North
2. Hatched areas indicate removal
3. Dimensions are measured along culvert  $\bar{C}$  unless stated otherwise at rt.  $\angle$ s
4. See Roadway Plans for quantity of Temporary Concrete Barrier

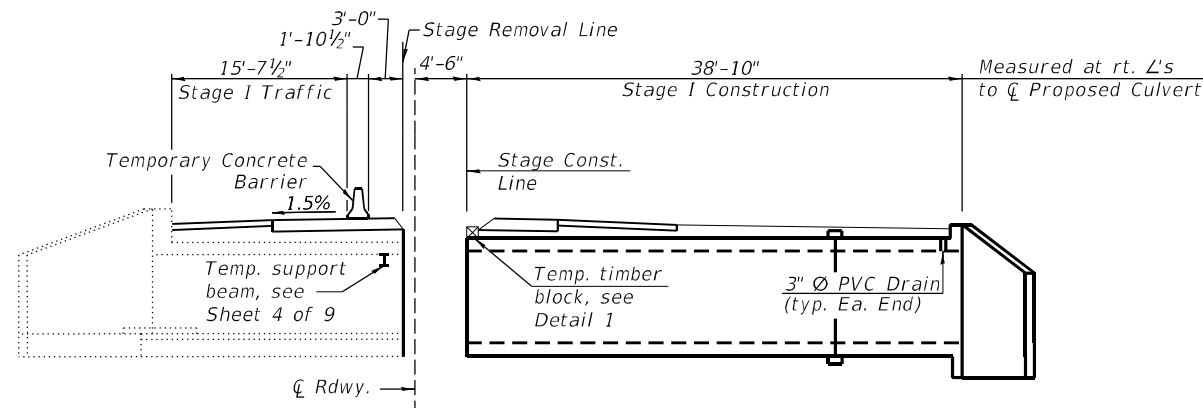


**STAGE I REMOVAL**

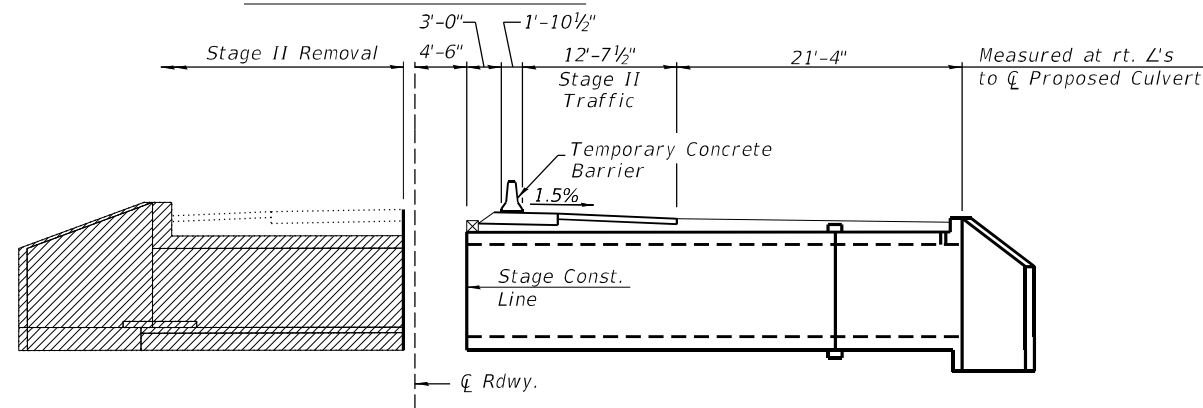


**DETAIL 1**

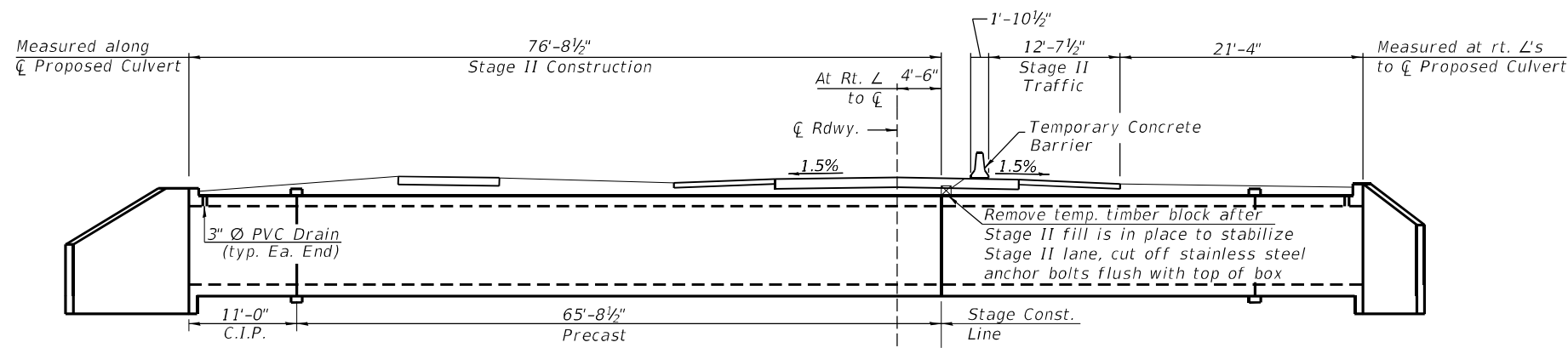
\*Cost of installation and removal included with Precast Concrete Box Culverts 12' x 8'



**STAGE I CONSTRUCTION**



**STAGE II REMOVAL**



**STAGE II CONSTRUCTION**

MODEL: D:\cfd\... FILE NAME: 202405150051\X1515008 - IDOT P18 - 199-30 DB Kuhn & Treloar\0624\Structures\CAD\B79914-011212\_03-Stage\_Constr\_Details.dgn



|            |                   |
|------------|-------------------|
| USER NAME  | = abohnhoff       |
| PLOT SCALE | = 20,0000 * / in. |
| PLOT DATE  | = 6/24/2024       |

|          |                |
|----------|----------------|
| DESIGNED | - J. GENTILINI |
| DRAWN    | - J. GENTILINI |
| CHECKED  | - A. BOHNHOFF  |
| DATE     | - 06/21/2024   |

|         |   |
|---------|---|
| REVISED | - |
| REVISED | - |
| REVISED | - |
| REVISED | - |

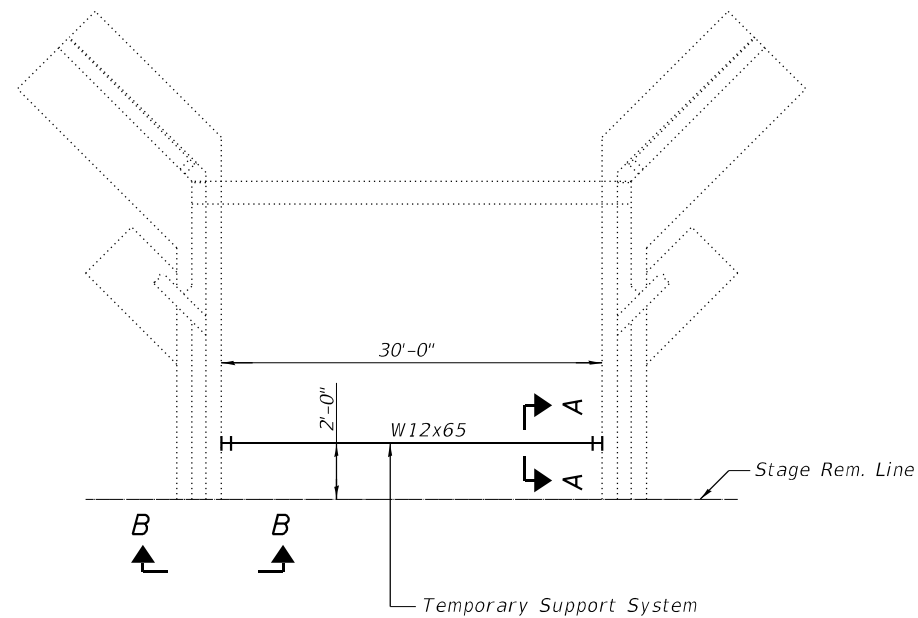
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**STAGE CONSTRUCTION DETAILS I  
STRUCTURE NO. 011-2112**

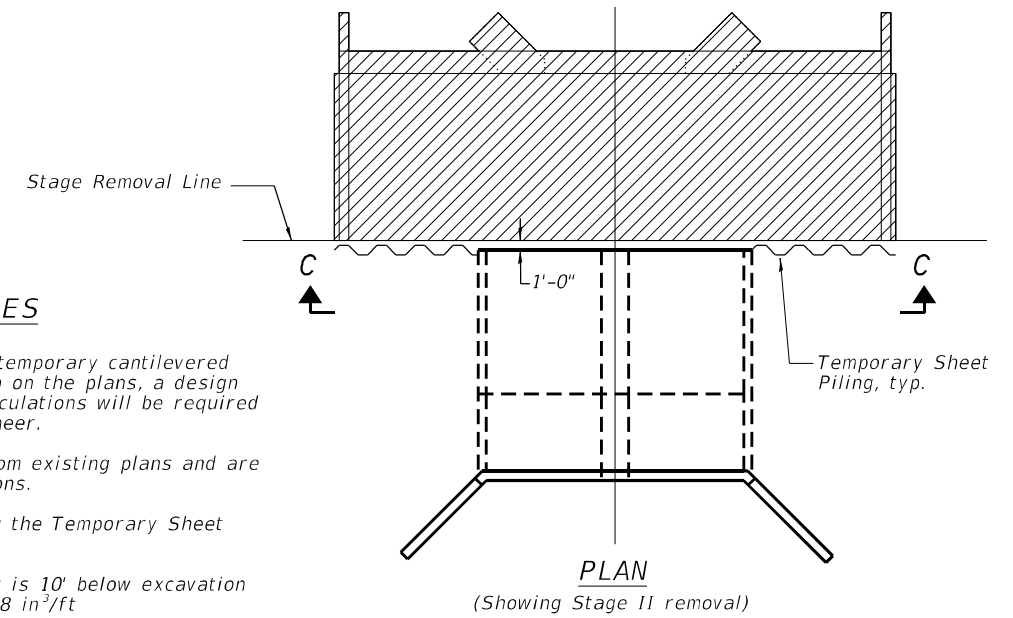
SCALE: SHEET 3 OF 9 SHEETS STA. TO STA.

|                           |         |           |              |           |
|---------------------------|---------|-----------|--------------|-----------|
| F.A.P. RTE.               | SECTION | COUNTY    | TOTAL SHEETS | SHEET NO. |
| 75                        | 2B-1    | CHRISTIAN | 42           | 26        |
| CONTRACT NO. 72994        |         |           |              |           |
| ILLINOIS FED. AID PROJECT |         |           |              |           |

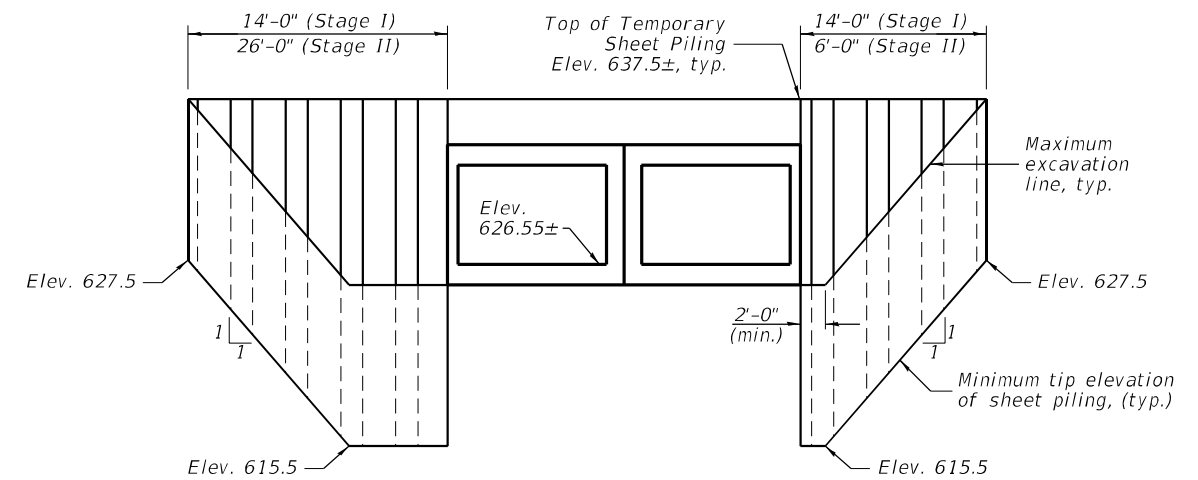




TEMP. SUPPORT SYSTEM PLAN



PLAN  
(Showing Stage II removal)

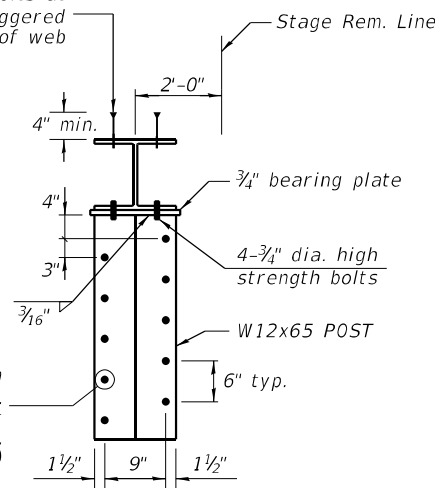


VIEW C-C  
(Showing Temporary Sheet Piling for Stage II construction)

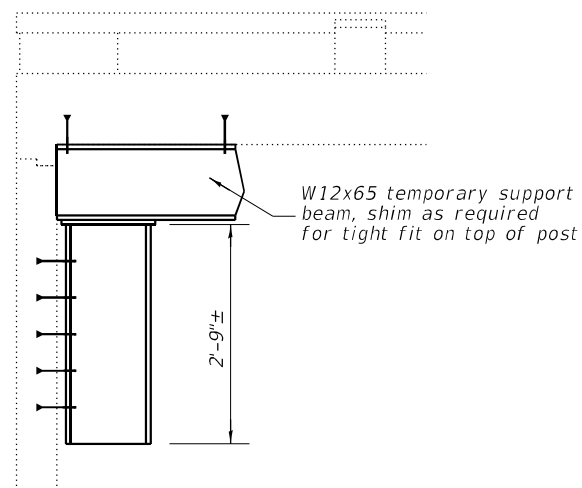
**TEMPORARY SHEET PILING NOTES**

1. If the Contractor chooses to alter the temporary cantilevered sheet piling design requirements shown on the plans, a design submittal including plan details and calculations will be required for review and acceptance by the Engineer.
2. Existing structure details are taken from existing plans and are subject to nominal construction variations.
3. Dimensions and slopes are shown along the Temporary Sheet Piling unless noted otherwise.
4. Minimum depth of sheet pile embedment is 10' below excavation line with minimum section modulus of 18 in<sup>3</sup>/ft

3/4" dia, expansion bolts at 3'-0" max. centers, staggered at 18" cts. ea. side of web



SECTION A-A



SECTION B-B

**TEMPORARY SUPPORT SYSTEM NOTES**

1. Holes for 3/4" dia. high strength (H.S) bolts shall be 1 3/16" dia. unless otherwise noted.
2. Holes for 3/4" dia. expansion anchors shall be as required by the expansion anchor manufacturer for the diameter of anchor specified.
3. Reinforcement bars in the existing concrete structure may conflict with specific expansion anchor locations. Reinforcement bars in conflict with anchors may be drilled through to facilitate installation of the expansion anchors at plan locations.
4. Plan dimensions and details relative to existing plans are subject to nominal construction variations. The Contractor shall field verify existing dimensions and details affecting the Temporary Support System and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in scope of work, but shall be included with Temporary Support System.

5. If the Contractor chooses to alter the Temporary Support System shown on the plans, a design submittal including plan details and calculations will be required for review and acceptance by the Engineer.
6. Steel shim plates shall be provided at each temporary support post as required for tight fit of beam against existing concrete deck. Plan dimensions of shim plates shall match bearing plans. Number and thickness of shim plates shall be determined by the Contractor in the field.
7. Member sizes shown are the minimum required. A larger section may be substituted to facilitate material acquisition or use of salvaged material at no additional cost to the department.
8. The Temporary Support System shall be in place prior to allowing traffic on the Stage I portion of the existing deck.
9. Temporary support of both existing spans is included with Temporary Support System.

MODEL Path: \\...  
FILE NAME: 2025031509251XX15008 - IDOT\_PTB\_199-30\_D6\_Kuhn & Treloar\0624\Structures\CADD\B7999\40112112\_04-Stage\_Constr\_Details\_II.dgn



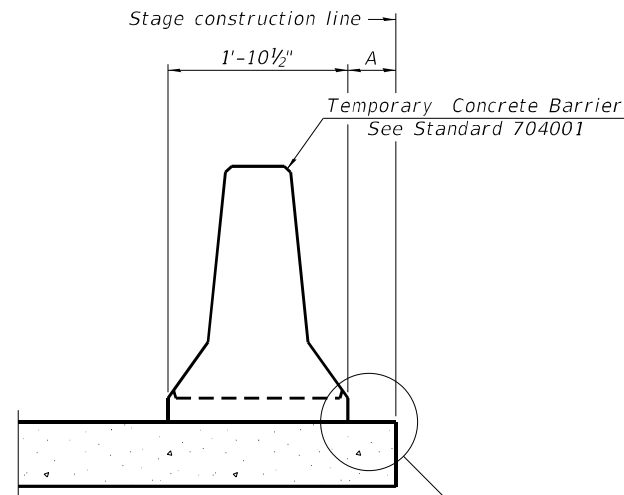
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| USER NAME = abohnhoff        | DESIGNED - J. GENTILINI | REVISED - |
| PLOT SCALE = 20,0000 * / in. | DRAWN - J. GENTILINI    | REVISED - |
| PLOT DATE = 6/24/2024        | CHECKED - A. BOHNHOFF   | REVISED - |
|                              | DATE - 06/21/2024       | REVISED - |

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

STAGE CONSTRUCTION DETAILS II  
STRUCTURE NO. 011-2112

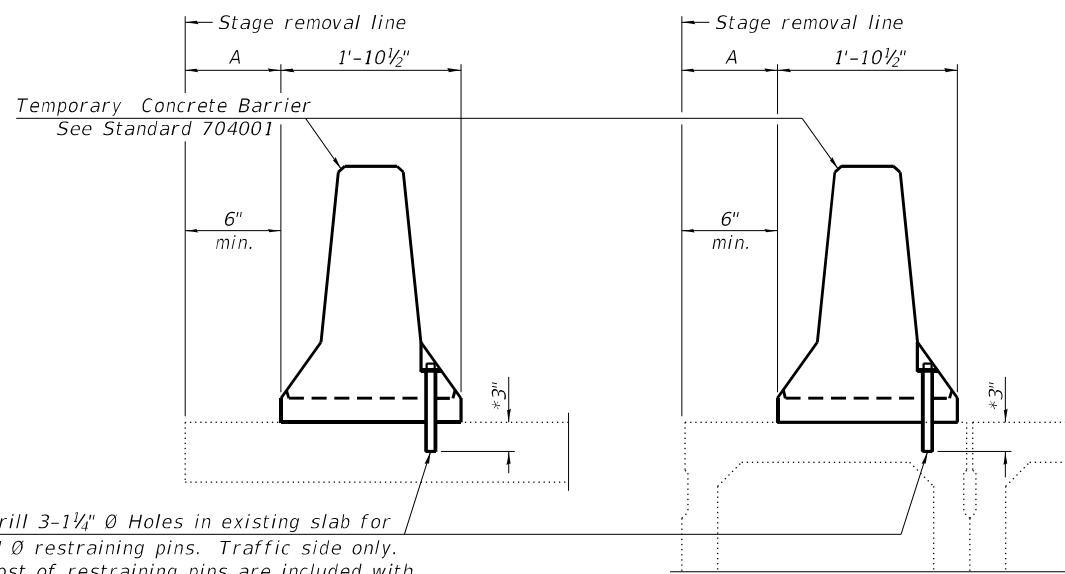
SCALE: SHEET 4 OF 9 SHEETS STA. TO STA.

|                           |         |           |              |           |
|---------------------------|---------|-----------|--------------|-----------|
| F.A.P. RTE.               | SECTION | COUNTY    | TOTAL SHEETS | SHEET NO. |
| 75                        | 2B-1    | CHRISTIAN | 42           | 27        |
| CONTRACT NO. 72994        |         |           |              |           |
| ILLINOIS FED. AID PROJECT |         |           |              |           |



When "A" is 3'-1" or less, the temporary concrete barrier shall be restrained to the new slab according to Detail I, II or III. No restraint is required when "A" is greater than 3'-1".

NEW SLAB OR NEW DECK BEAM

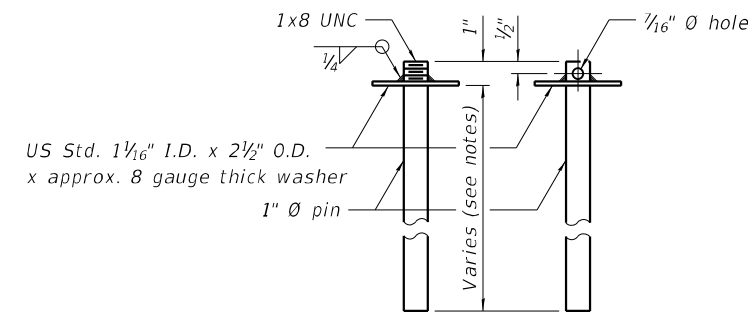


Drill 3-1 1/4" Ø Holes in existing slab for 1" Ø restraining pins. Traffic side only. Cost of restraining pins are included with Temporary Concrete Barrier. No restraint is required when "A" is greater than 3'-1".

EXISTING SLAB

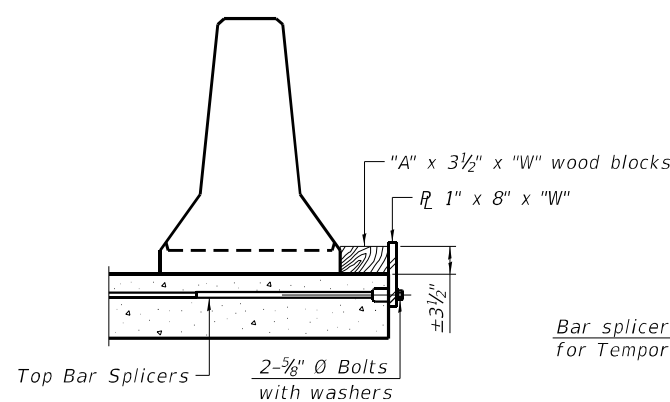
EXISTING DECK BEAM

SECTIONS THRU SLAB OR DECK BEAM

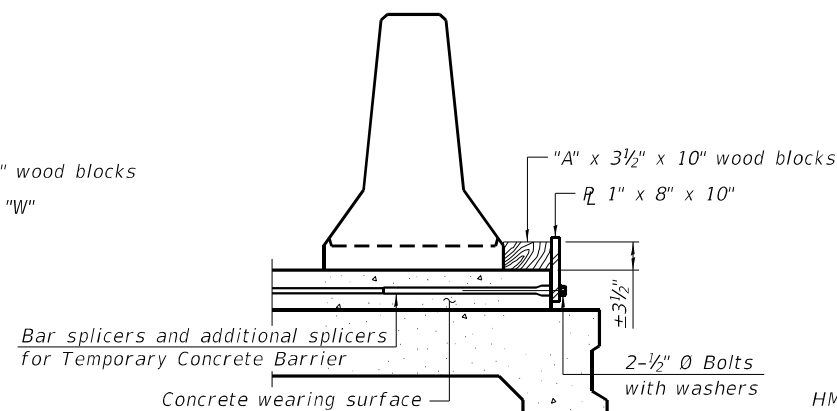


RESTRAINING PIN

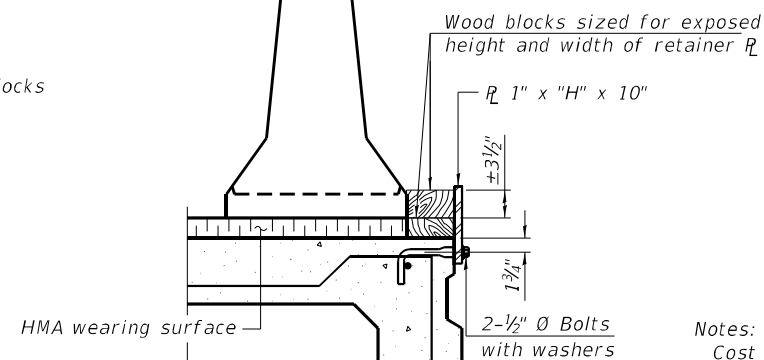
\* When hot-mix asphalt wearing surface is present, embedment shall be 3" plus the wearing surface depth.



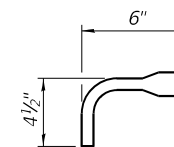
DETAIL I



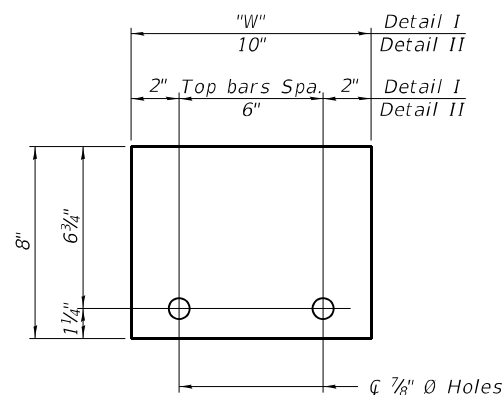
DETAIL II



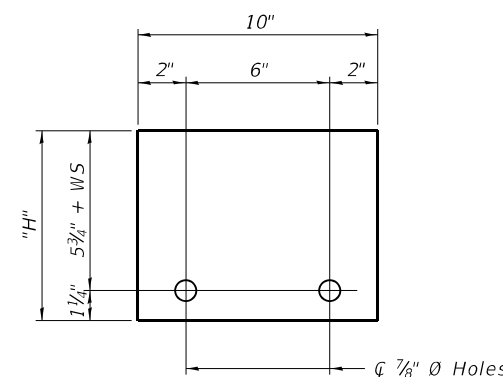
DETAIL III



BAR SPLICER FOR #4 BAR - DETAIL III



STEEL RETAINER 1" x 8" x "W" (Detail I and II)



STEEL RETAINER 1" x "H" x 10" (Detail III)

Notes:  
 Cost of retainer assembly is included with Temporary Concrete Barrier.  
 A retainer assembly shall be located at the approximate  $\frac{1}{2}$  of each temporary concrete barrier.  
 The retainer plate shall not be removed until the concrete on the adjacent stage is ready to be poured. For Detail III applications the retainer plate shall not be removed until just prior to placing the adjacent beam.  
 When the 'A' dimension is less than 1 1/2', the wood block shall be omitted and the barrier shall be placed in direct contact with the steel retainer plate. For deck beam applications the minimum required 'A' distance is 6" to accommodate the shear key clamping device.

Detail I - Installation for a new bridge deck or bridge slab.  
 Detail II - Installation for a new deck beam with an initial concrete wearing surface. Additional bar splicers shall be provided at 6'-0" centers and paired with the bar splicers of the concrete wearing surface reinforcement to accommodate the installation of the retainer assemblies. The cost of the additional bar splicers is included with the concrete wearing surface.  
 Detail III - Installation for a new deck beam with no initial wearing surface or with an initial hot-mix asphalt (HMA) wearing surface present. The deck beam directly beneath the temporary concrete barrier shall be fabricated with bar splicer inserts in the side of the beam, as detailed, to accommodate the installation of the retainer assemblies. A pair of bar splicers, 6" apart, shall be placed at 6'-0" centers along the length of the beam. The cost of the bar splicers is included with the deck beam.

RAILING CRITERIA

|                      |     |
|----------------------|-----|
| NCHRP 350 Test Level | 3   |
| Railing Weight (plf) | 440 |

R-27 10-12-2021

MODEL Path: \\... FILE NAME: 20230505051508 - R001 P10 - 199-30 DB Kuhn & Treloar\0624\Structures\CAD\B7994\0112\_05-Temps\_barrier for Stage Const.dgn



|                              |                         |           |
|------------------------------|-------------------------|-----------|
| USER NAME = abohnhoff        | DESIGNED - J. GENTILINI | REVISED - |
| PLOT SCALE = 20,0000 * / in. | DRAWN - J. GENTILINI    | REVISED - |
| PLOT DATE = 6/24/2024        | CHECKED - A. BOHNHOFF   | REVISED - |
|                              | DATE - 06/21/2024       | REVISED - |

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

TEMPORARY BARRIER FOR STAGE CONSTRUCTION  
STRUCTURE NO. 011-2112

SCALE: SHEET 5 OF 9 SHEETS STA. TO STA.

|                           |         |           |              |           |
|---------------------------|---------|-----------|--------------|-----------|
| F.A.P. RTE.               | SECTION | COUNTY    | TOTAL SHEETS | SHEET NO. |
| 75                        | 2B-1    | CHRISTIAN | 42           | 28        |
| CONTRACT NO. 72994        |         |           |              |           |
| ILLINOIS FED. AID PROJECT |         |           |              |           |

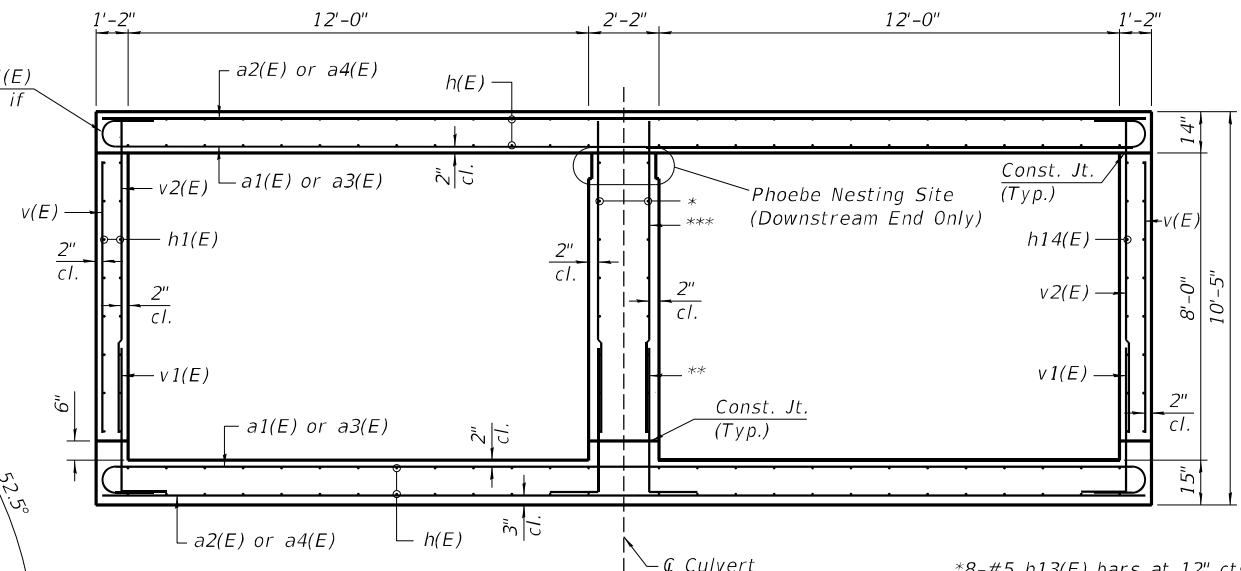
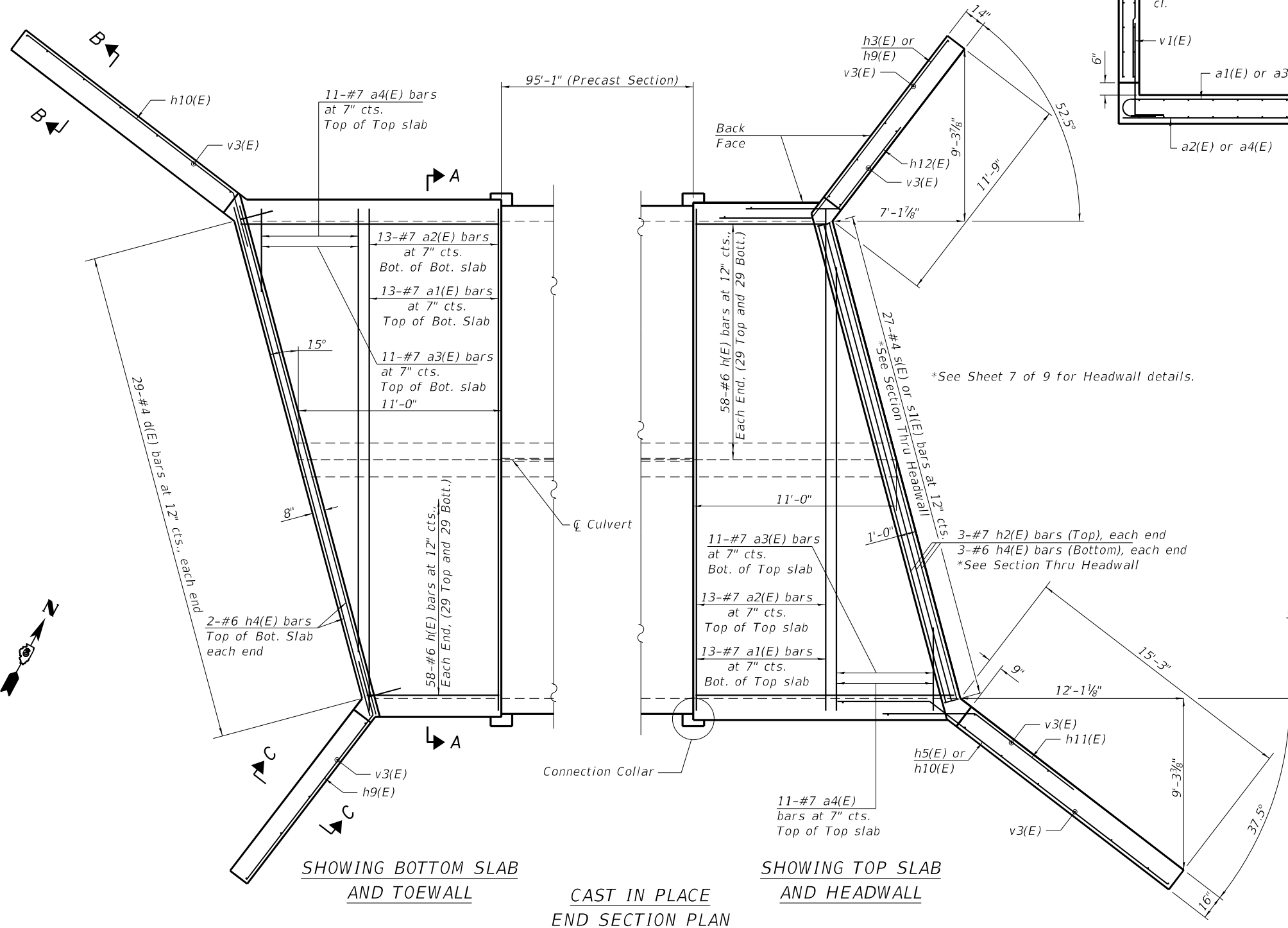
**Notes:**

See Sheet 7 of 9 for Longitudinal section and wing wall details.

A distance of half the length of the wingwall but not less than six feet of the barrel shall be poured monolithically with the horizontal cantilever wingwalls.

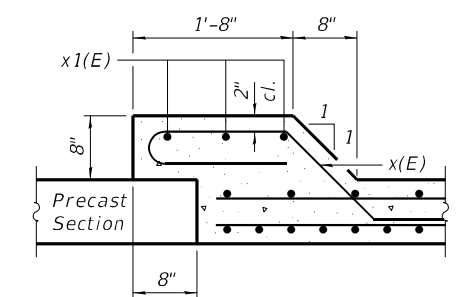
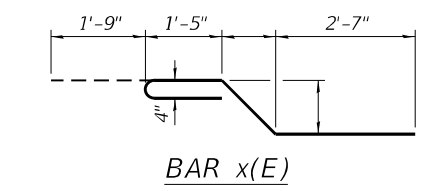
At the Contractor's option, a longer v1(E) bar may be ordered to replace the v2(E) bar. No reduction in quantities shall be made for this substitution.

Bars in skew portion of slab shall be ordered full length & cut to fit. Balance of bar to be used in opposite end of culvert.

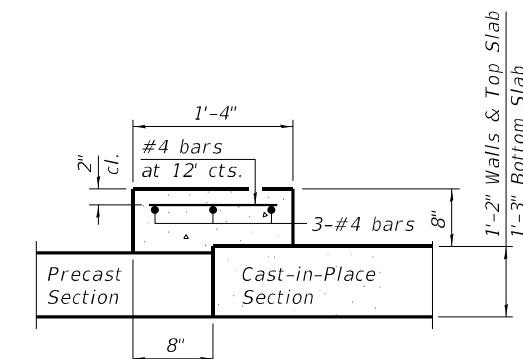


SECTION THROUGH BARREL A-A

- \*8-#5 h13(E) bars at 12" cts. each face, each end
- \*\*21-#5 v1(E) bars at 6" cts. each face, each end
- \*\*\*21-#5 v2(E) bars at 6" cts. each face, each end



SECTION THRU CONNECTION COLLAR



ALTERNATE SECTION THRU CONNECTION COLLAR

\*See Sheet 7 of 9 for Headwall details.

3-#7 h2(E) bars (Top), each end  
3-#6 h4(E) bars (Bottom), each end  
\*See Section Thru Headwall

MODEL: P:\cfd\11...  
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 DATE: 6/24/2024



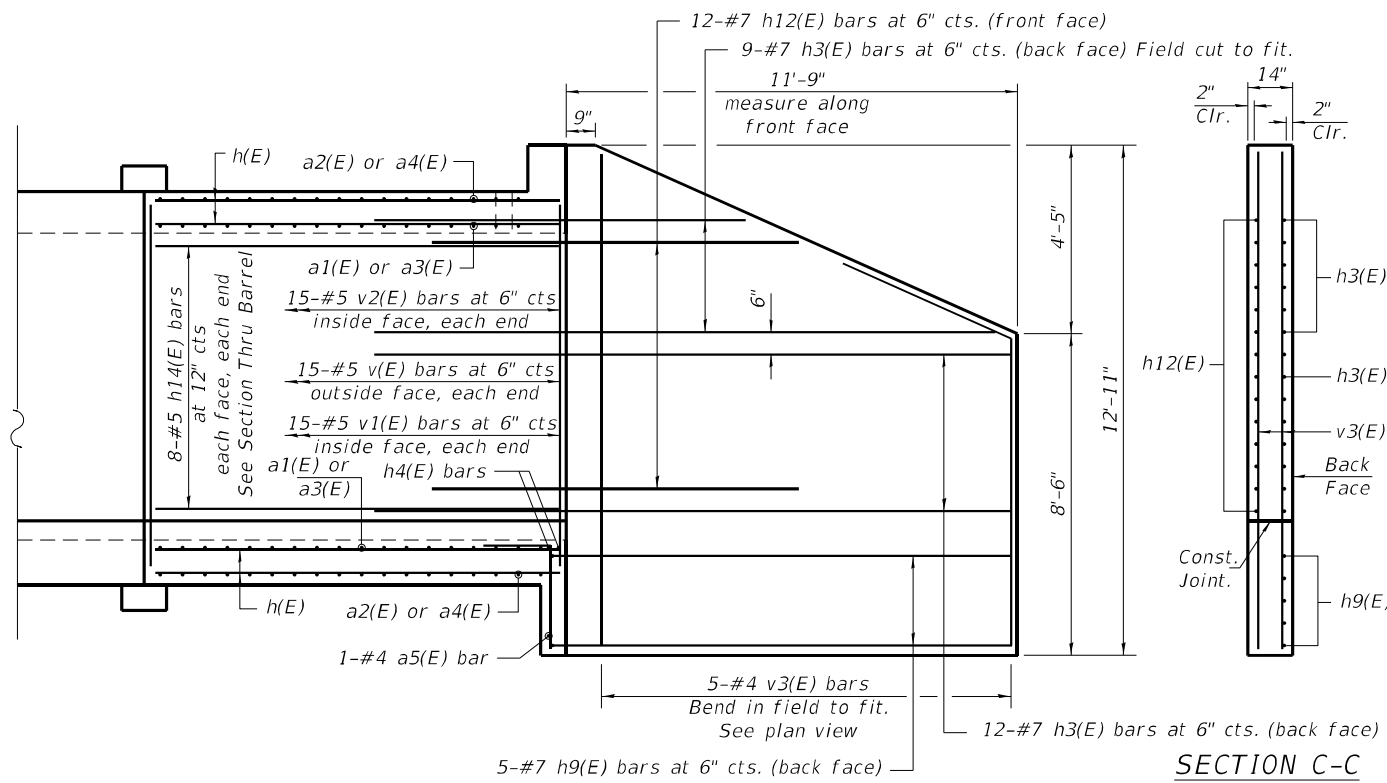
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| USER NAME = abohnhoff | DESIGNED - J. GENTILINI | REVISED - |
|                       | DRAWN - J. GENTILINI    | REVISED - |
| PLOT SCALE = 20:0 "/> |                         |           |

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

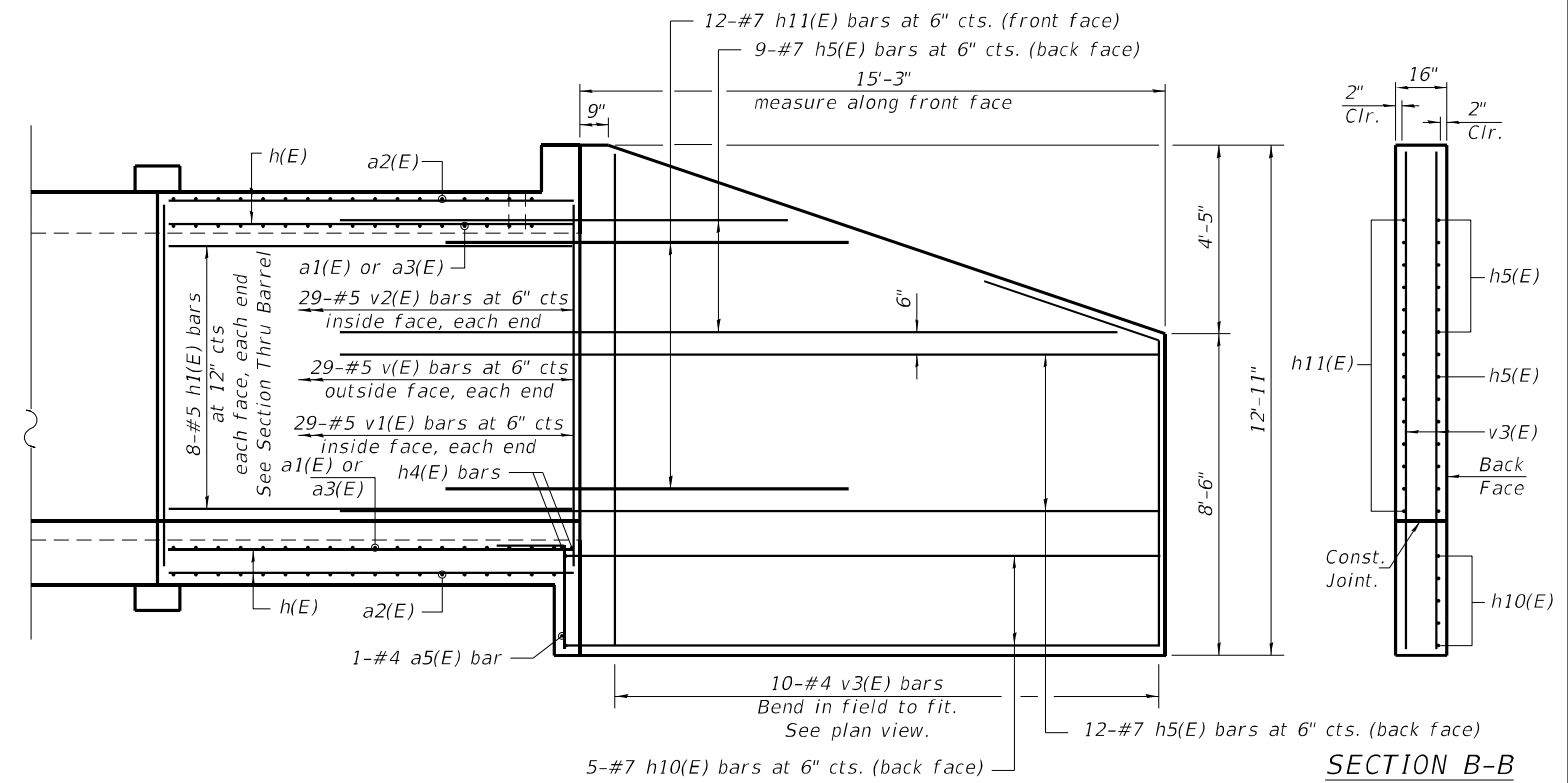
**CULVERT DETAILS I  
STRUCTURE NO. 011-2112**

SCALE: SHEET 6 OF 9 SHEETS STA. TO STA.

|                           |              |                  |                 |              |
|---------------------------|--------------|------------------|-----------------|--------------|
| F.A.P. RTE. 75            | SECTION 2B-1 | COUNTY CHRISTIAN | TOTAL SHEETS 42 | SHEET NO. 29 |
| CONTRACT NO. 72994        |              |                  |                 |              |
| ILLINOIS FED. AID PROJECT |              |                  |                 |              |



SECTION C-C



SECTION B-B

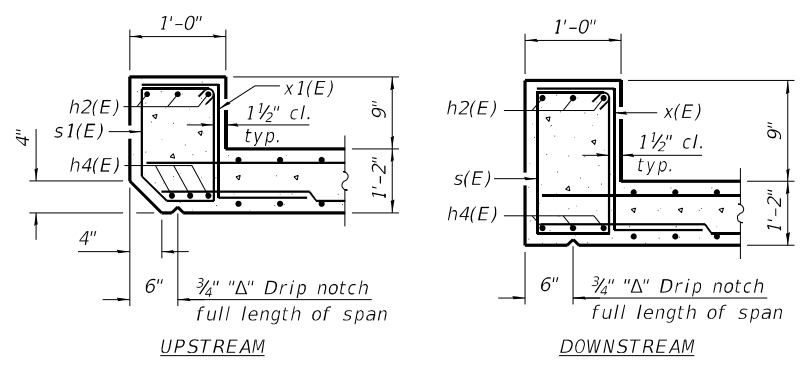
SHORT WALL LONGITUDINAL SECTION

LONG WALL LONGITUDINAL SECTION

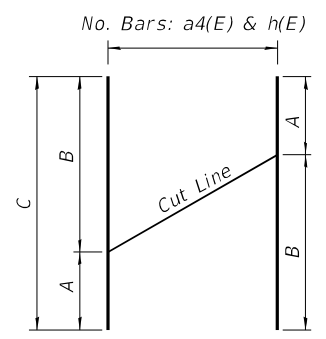
BILL OF MATERIAL

(For Information Only - 2 Total)

| Bar                              | No. | Size | Length  | Shape   |        |
|----------------------------------|-----|------|---------|---------|--------|
| a1(E)                            | 26  | #7   | 29'-10" | U       |        |
| a2(E)                            | 26  | #7   | 28'-2"  | U       |        |
| a3(E)                            | 11  | #7   | 29'-10" | U       |        |
| a4(E)                            | 11  | #7   | 28'-2"  | U       |        |
| a5(E)                            | 2   | #4   | 29'-1"  | U       |        |
| d(E)                             | 58  | #4   | 4'-4"   | L       |        |
| h(E)                             | 116 | #6   | 21'-4"  | U       |        |
| h1(E)                            | 32  | #5   | 14'-5"  | U       |        |
| h2(E)                            | 6   | #7   | 29'-1"  | U       |        |
| h3(E)                            | 42  | #7   | 14'-1"  | U       |        |
| h4(E)                            | 10  | #6   | 29'-1"  | U       |        |
| h5(E)                            | 42  | #7   | 18'-0"  | U       |        |
| h9(E)                            | 10  | #7   | 13'-7"  | U       |        |
| h10(E)                           | 10  | #7   | 17'-6"  | U       |        |
| h11(E)                           | 24  | #7   | 18'-2"  | U       |        |
| h12(E)                           | 24  | #7   | 14'-7"  | U       |        |
| h13(E)                           | 32  | #5   | 10'-5"  | U       |        |
| h14(E)                           | 32  | #5   | 6'-11"  | U       |        |
| s(E)                             | 27  | #4   | 5'-5"   | U       |        |
| s1(E)                            | 27  | #4   | 5'-3"   | U       |        |
| v(E)                             | 88  | #5   | 7'-1"   | U       |        |
| v1(E)                            | 130 | #5   | 4'-11"  | U       |        |
| v2(E)                            | 130 | #5   | 8'-3"   | U       |        |
| v3(E)                            | 36  | #4   | 12'-7"  | U       |        |
| x(E)                             | 27  | #4   | 4'-5"   | U       |        |
| x1(E)                            | 27  | #4   | 3'-11"  | U       |        |
| Concrete Box Culverts            |     |      |         | Cu. Yd. | 123.7  |
| Reinforcement Bars, Epoxy Coated |     |      |         | Pound   | 18,350 |

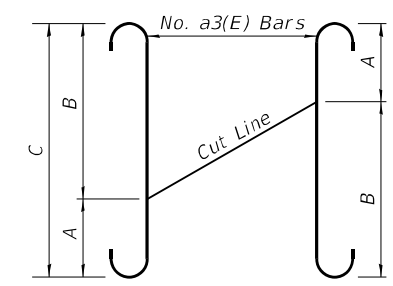


SECTION THRU HEADWALL

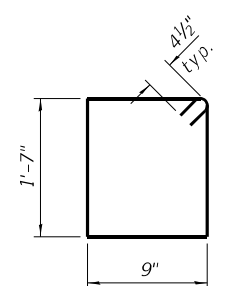


CUTTING DIAGRAM  
Order bars full length, cut as shown and use remainder of bars in opposite end.

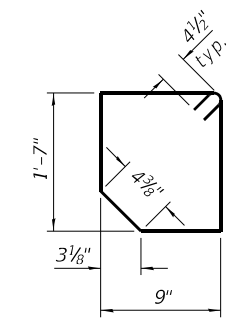
| Bar   | No. | A      | B      | C      | Shape |
|-------|-----|--------|--------|--------|-------|
| a3(E) | 11  | 3'-8"  | 25'-6" | 28'-2" | U     |
| a4(E) | 11  | 3'-8"  | 25'-6" | 28'-2" | U     |
| h(E)  | 29  | 6'-11" | 14'-5" | 21'-4" | U     |



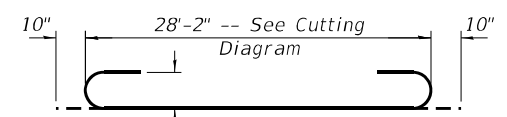
CUTTING DIAGRAM  
Order bars full length, cut as shown and use remainder of bars in opposite end.



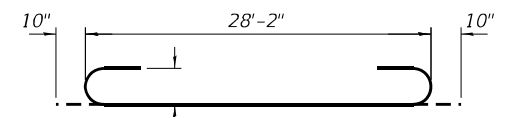
BAR s(E)



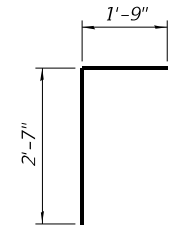
BAR s1(E)



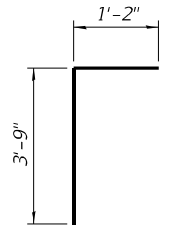
BAR a3(E)



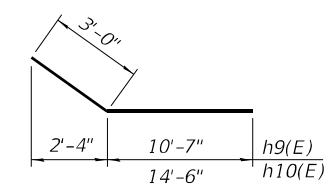
BAR a1(E)



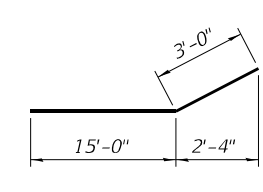
BAR d(E)



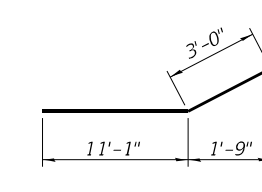
BAR v1(E)



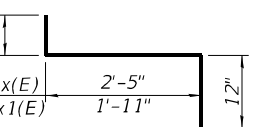
BARS h9(E) & h10(E)



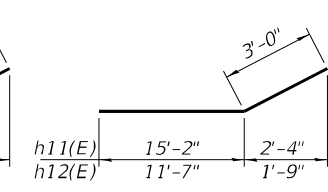
BAR h5(E)



BAR h3(E)



BAR x(E) or x1(E)



BARS h11(E) & h12(E)

MODEL: P:\cfd\h... FILE NAME: 2025031509551XX15008... I:\DOT\_PTB\_1999.30.D6\Kuhn & Trethow\06245-Structures\CADD\B7999\4011212\_07-Culvert Details II.dgn



|                         |                         |           |
|-------------------------|-------------------------|-----------|
| USER NAME = abohnhoff   | DESIGNED - J. GENTILINI | REVISED - |
| DRAWN - J. GENTILINI    | REVISED -               |           |
| PLOT SCALE = 20:0 "/in. | CHECKED - A. BOHNHOFF   | REVISED - |
| PLOT DATE = 6/24/2024   | DATE - 06/21/2024       | REVISED - |

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

CULVERT DETAILS II  
STRUCTURE NO. 011-2112

SCALE: SHEET 7 OF 9 SHEETS STA. TO STA.

|                           |         |           |              |           |
|---------------------------|---------|-----------|--------------|-----------|
| F.A.P. RTE.               | SECTION | COUNTY    | TOTAL SHEETS | SHEET NO. |
| 75                        | 2B-1    | CHRISTIAN | 42           | 30        |
| CONTRACT NO. 72994        |         |           |              |           |
| ILLINOIS FED. AID PROJECT |         |           |              |           |



**Illinois Department of Transportation**  
Division of Highways  
District 6

# SOIL BORING LOG

Page 1 of 1

Date 8/10/22

ROUTE IL 29 DESCRIPTION Prop Box Culvert over Locust Creek, SE of Millersville LOGGED BY S. Burke

SECTION \_\_\_\_\_ LOCATION NW 1/4, SEC. 36, TWP. 12 N, RNG. 1 W, 3 PM

COUNTY Christian DRILLING METHOD HSA HAMMER TYPE 140# Auto

STRUCT. NO. 011-0012Ex  
Station \_\_\_\_\_

BORING NO. 1-NW  
Station 553+72  
Offset 12' RT  
Ground Surface Elev. ft 637.24 ft

| DEPTH<br>T H S<br>(ft) | B L O W S<br>/6" | U C S<br>(tsf) | M O I S T<br>(%) | Soil Description  |                        |                  |                |
|------------------------|------------------|----------------|------------------|---|------------------------|------------------|----------------|
|                        |                  |                |                  | Soil Description  | DEPTH<br>T H S<br>(ft) | B L O W S<br>/6" | U C S<br>(tsf) |
|                        |                  |                |                  | Surface Water Elev. <u>628.42</u> ft  |                        |                  |                |
|                        |                  |                |                  | Stream Bed Elev. _____ ft   |                        |                  |                |
|                        |                  |                |                  | Groundwater Elev.: _____ ft   |                        |                  |                |
|                        |                  |                |                  | ▽ First Encounter <u>625.7</u> ft   |                        |                  |                |
|                        |                  |                |                  | ▽ Upon Completion <u>plugged</u> ft   |                        |                  |                |
|                        |                  |                |                  | ▽ Afterplugged Hrs. _____ ft  |                        |                  |                |
|                        |                  |                |                  | Gray and Brown SILTY CLAY LOAM<br>0-9" cored thru HMA                             |                        |                  |                |
|                        | 0                |                |                  | Dk Gray and Brown Moist SILTY CLAY LOAM TILL<br>w/ iron oxide nodules (continued) |                        | 1                |                |
|                        | 1                | 1.0            | 25               |   |                        | 8                | 4.5            |
|                        | 1                | P              |                  |   |                        | 9                | S              |
|                        |                  |                |                  |   |                        |                  |                |
|                        | 0                |                |                  |   |                        | 2                |                |
|                        | 1                | 1.0            | 18               |   |                        | 10               | 4.7            |
|                        | 2                | B              |                  |   | 612.24                 | 10               | S-10           |
|                        | -5               |                |                  |   |                        |                  |                |
|                        |                  |                |                  | Dk Gray and Brown Moist SILTY CLAY LOAM TILL<br>w/ iron oxide nodules             |                        |                  |                |
|                        | 0                |                |                  |   |                        |                  |                |
|                        | 1                | 1.4            | 22               |   |                        |                  |                |
|                        | 2                | B              |                  |   |                        |                  |                |
|                        |                  |                |                  |   |                        |                  |                |
|                        | 1                |                |                  | Brown Moist SILTY CLAY LOAM TILL<br>w/ 3" Sand Seam at 9ft                        |                        |                  |                |
|                        | 2                | 0.6            | 15               |   |                        |                  |                |
|                        | 2                | B              |                  |   |                        |                  |                |
|                        |                  |                |                  |   |                        |                  |                |
|                        | 1                |                |                  | Brown Med grained Sand and Gravel @11.5 - 11.75ft<br>FREE WATER                   |                        |                  |                |
|                        | 9                | 4+             | 9                |   |                        |                  |                |
|                        | 11               | P              |                  |   |                        |                  |                |
|                        |                  |                |                  |   |                        |                  |                |
|                        | 2                |                |                  | Lt Gray SILTY CLAY LOAM TILL<br>w/ 1/2" rocks                                     |                        |                  |                |
|                        | 10               | 2.7            | 8                |   |                        |                  |                |
|                        | 13               | S              |                  |   |                        |                  |                |
|                        |                  |                |                  |   |                        |                  |                |
|                        | 2                |                |                  |   |                        |                  |                |
|                        | 10               | 2.2            | 9                |   |                        |                  |                |
|                        | 13               | S              |                  |   |                        |                  |                |
|                        |                  |                |                  |   |                        |                  |                |
|                        | 2                |                |                  | Lt Gray SILTY CLAY LOAM TILL  |                        |                  |                |
|                        | 10               | 4.0            | 7                |   |                        |                  |                |
|                        | 13               | S-12           |                  |   |                        |                  |                |
|                        |                  |                |                  |   |                        |                  |                |
|                        | -20              |                |                  |   |                        |                  |                |

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer, E-Estimated) Abbreviations W.O.H - Sampler Advanced By Weight of Hammer, W.O.P - Advanced by Weight of Pipe, B.S. - Before Seating The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206) BBS, from 137 (Rev. 8-99)

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|                            |            |           |
|----------------------------|------------|-----------|
| USER NAME = abohnhoff      | DESIGNED - | REVISED - |
|                            | DRAWN -    | REVISED - |
| PLOT SCALE = 2,0000' / in. | CHECKED -  | REVISED - |
| PLOT DATE = 6/24/2024      | DATE -     | REVISED - |

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**BORING LOGS  
STRUCTURE NO. 011-2112**

SCALE: SHEET 8 OF 9 SHEETS STA. TO STA.

| F.A.P. RTE.               | SECTION | COUNTY    | TOTAL SHEETS       | SHEET NO. |
|---------------------------|---------|-----------|--------------------|-----------|
| 75                        | 2B-1    | CHRISTIAN | 42                 | 31        |
|                           |         |           | CONTRACT NO. 72994 |           |
| ILLINOIS FED. AID PROJECT |         |           |                    |           |

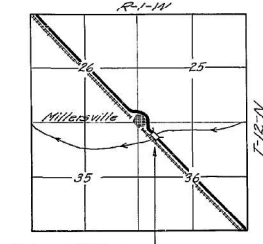
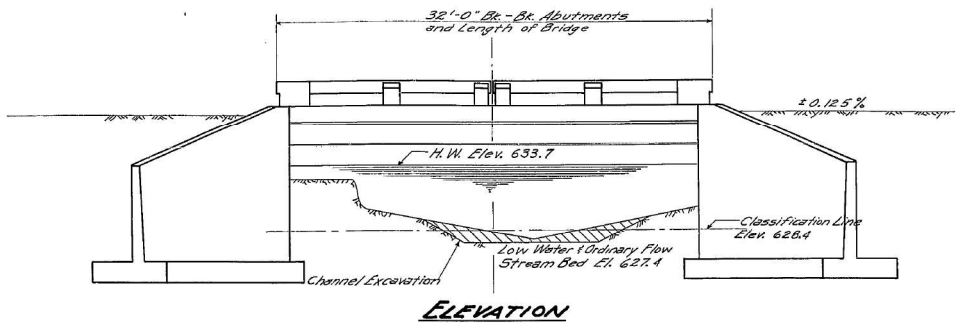
B.M. Cross Cut on S.W. Wingwall of Bridge 17.8 Ft.  
 R.F. Sta. 533+01 Elevation 637.28  
 Existing Structure 130' Span Reinforced Conc. Slab Bridge  
 ±33' Abut. on R.C. Abutments To be widened.  
 Old R.C. Slab Bridge 20' Span 12' Remy. ±35' Left of  
 Sta. 534+10 to be removed by Bridge Contractor.  
 No Salvage.

STATE OF ILLINOIS  
 DEPARTMENT OF PUBLIC WORKS & BUILDINGS  
 DIVISION OF HIGHWAYS

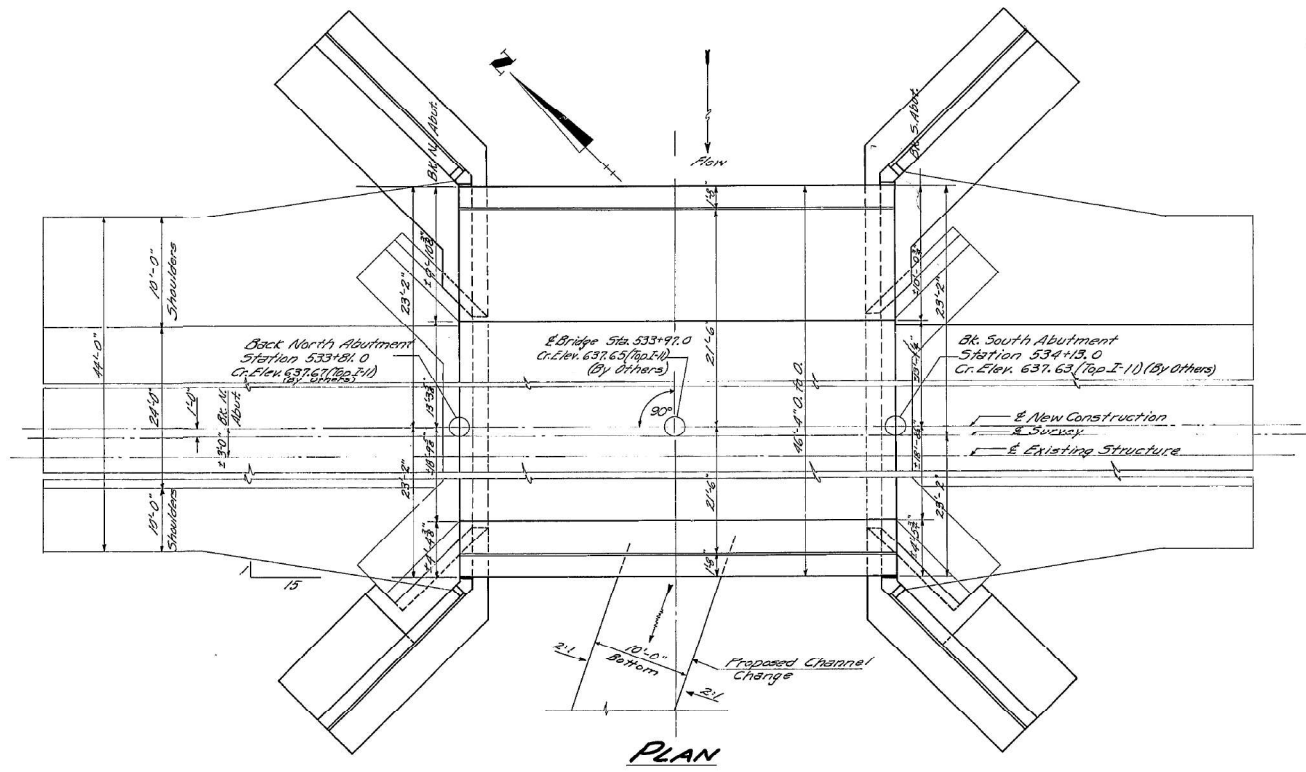
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|-----------------------|---------|-----------|------------------|-----------|
| ROUTE NO.             | SECTION | COUNTY    | TOTAL SHEETS     | SHEET NO. |
| 1-24                  | (2,3)W  | Christian | 113              | 20        |
| FED. ROAD DIST. NO. 7 |         | ILLINOIS  | FED. AID PROJECT |           |

**GENERAL NOTES**

Class X Concrete shall be used throughout except as noted.  
 Handrail Concrete shall be used for rails and posts.  
 The Handrail/Handrail Posts shall be poured in two separate operations.  
 The floor slab, except those cross-hatched portions shown in the typical cross section on Sheet 2, shall be poured in one continuous operation and monolithically with the curb.  
 The floor slab shall be finished in accordance with the applicable portions of Article 51.18(b) of the Standard Specifications.  
 The back of proposed abutments and wingwalls from top of ground to top of footing shall be waterproofed. See Article 51.20 of the Standard Specifications.  
 Backfilling behind abutments shall be in accordance with Article 50.10 of the Standard Specifications.



**LOCATION SKETCH**



**PLAN**

STATION 533+97  
 BUILT 195 BY  
 STATE OF ILLINOIS  
 S.B.I. Rt. 24 Sec.(2,3)W  
 PROJECT F-44(3)  
 LOADING H15-512-44

**NAME PLATE**  
 (See Standard 2113)

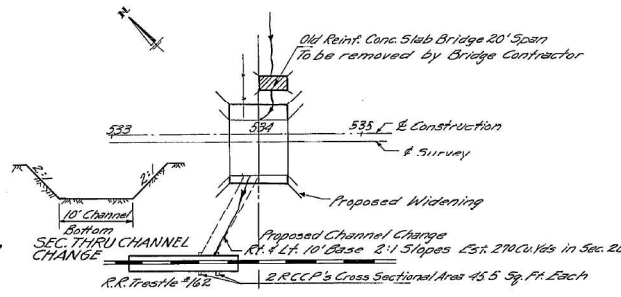
**WATERWAY INFORMATION**

Drainage Area 1638 Acres  
 Character Rolling  
 Reg'd Opening 105 Sq. Ft.  
 Proposed Opening 105 Sq. Ft.

**DESIGN STRESSES**

16' 1400# Super  
 800' Sub  
 15' 20000' Reinf.  
 10

**SITE SKETCH**



**TOTAL BILL OF MATERIAL**

| ITEM                                   | SUPER         | SUB  | TOTAL |
|--|---------------|------|-------|
| Class X Concrete                       | Cu. Yds. 30.3 | 65.8 | 96.1  |
| Handrail Concrete                      | Cu. Yds. 1.7  |      | 1.7   |
| Reinforcement Bars                     | Lbs. 6870     | 3090 | 9960  |
| Class A Excavation for Struck Cu. Yds. |               | 70   | 70    |
| Class B Excavation for Struck Cu. Yds. |               | 110  | 110   |
| Masonry Removal                        | Cu. Yds. 6.0  | 1.0  | 7.0   |
| Expansion Bolts                        | Each 42       | 26   | 68    |
| Channel Excavation                     | Cu. Yds.      |      | 270   |
| Removal of Exist. Struck               | Sq.           |      | 1     |
| Name Plate                             | Each          |      | 1     |

**GENERAL PLAN & ELEVATION  
 BRIDGE OVER BRANCH OF LOCUST CREEK**

S.B.I. Rt. 24 Sec. 2B-Y  
 CHRISTIAN COUNTY  
 STA. 533+97  
 [Built as Sec.(2,3)W]

Loading H15-512-44

DESIGNED T. Aphonso  
 CHECKED Abraham W. Wood  
 DRAWN T. Aphonso  
 CHECKED Abraham W. Wood  
 EXAMINED W. R. Brantlinger  
 PAISED  
 APPROVED W. R. Brantlinger  
 JUN 4 1957

|                           |            |           |
|---------------------------|------------|-----------|
| USER NAME = abohnhoff     | DESIGNED - | REVISED - |
| PLOT SCALE = 2,000' / in. | DRAWN -    | REVISED - |
| PLOT DATE = 6/24/2024     | CHECKED -  | REVISED - |
|                           | DATE -     | REVISED - |

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

EXISTING STRUCTURE PLANS  
 STRUCTURE NO. 011-2112

SCALE: \_\_\_\_\_ SHEET 9 OF 9 SHEETS STA. \_\_\_\_\_ TO STA. \_\_\_\_\_

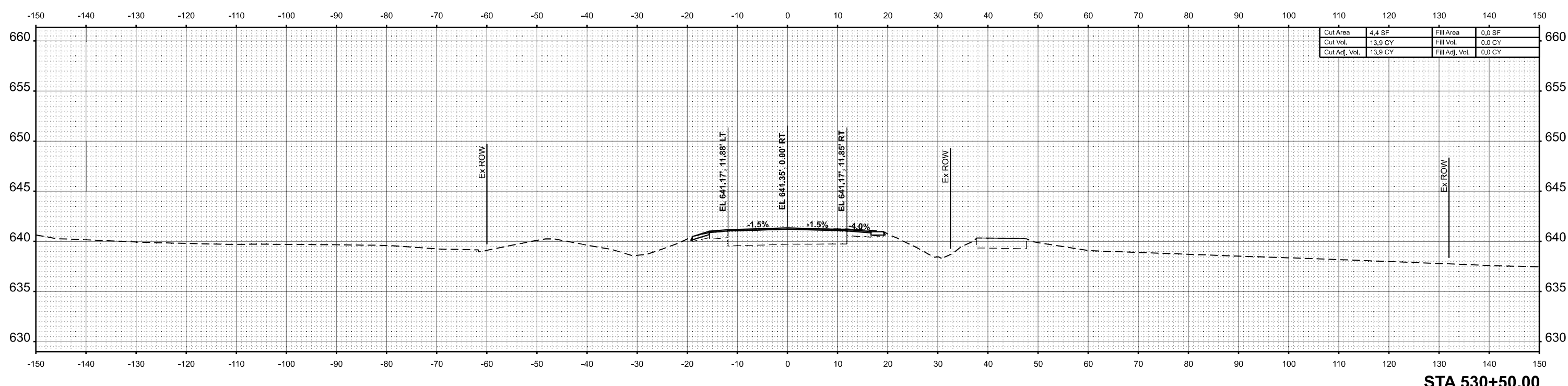
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| F.A.P. RTE.               | SECTION | COUNTY    | TOTAL SHEETS       | SHEET NO. |
| 75                        | 2B-1    | CHRISTIAN | 42                 | 32        |
|                           |         |           | CONTRACT NO. 72994 |           |
| ILLINOIS FED. AID PROJECT |         |           |                    |           |

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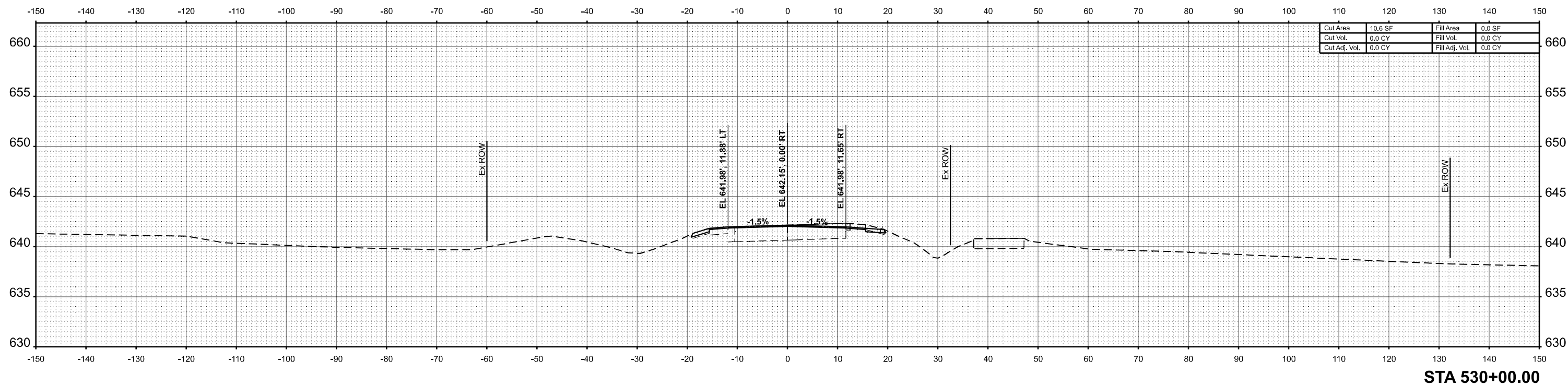


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| BY            |  |
| SURVEYED      |  |
| PLOTTED       |  |
| TEMPLATE      |  |
| NOTE BOOK     |  |
| AREAS CHECKED |  |
| NO.           |  |

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|---------------|--|
| DATE          |  |
| BY            |  |
| SURVEYED      |  |
| PLOTTED       |  |
| TEMPLATE      |  |
| NOTE BOOK     |  |
| AREAS CHECKED |  |
| NO.           |  |



|               |         |                |        |
|---------------|---------|----------------|--------|
| Cut Area      | 4.4 SF  | Fill Area      | 0.0 SF |
| Cut Vol.      | 13.9 CY | Fill Vol.      | 0.0 CY |
| Cut Adj. Vol. | 13.9 CY | Fill Adj. Vol. | 0.0 CY |



|               |         |                |        |
|---------------|---------|----------------|--------|
| Cut Area      | 10.6 SF | Fill Area      | 0.0 SF |
| Cut Vol.      | 0.0 CY  | Fill Vol.      | 0.0 CY |
| Cut Adj. Vol. | 0.0 CY  | Fill Adj. Vol. | 0.0 CY |

MODEL: \$MODELNAME\$  
FILE NAME: I:\ROADS\SHEETS\301p

**AMES Engineering, Inc.**  
CONSULTING ENGINEERS  
6330 Belmont Road, Suite 4B  
Downers Grove, IL 60516

USER NAME = msomer  
DESIGNED - MS  
DRAWN - SR, MA  
CHECKED - JAR  
DATE - 07/03/2024

REVISIED -  
REVISIED -  
REVISIED -  
REVISIED -

PLOT SCALE = \$SCALE\$  
PLOT DATE = 07/03/2024

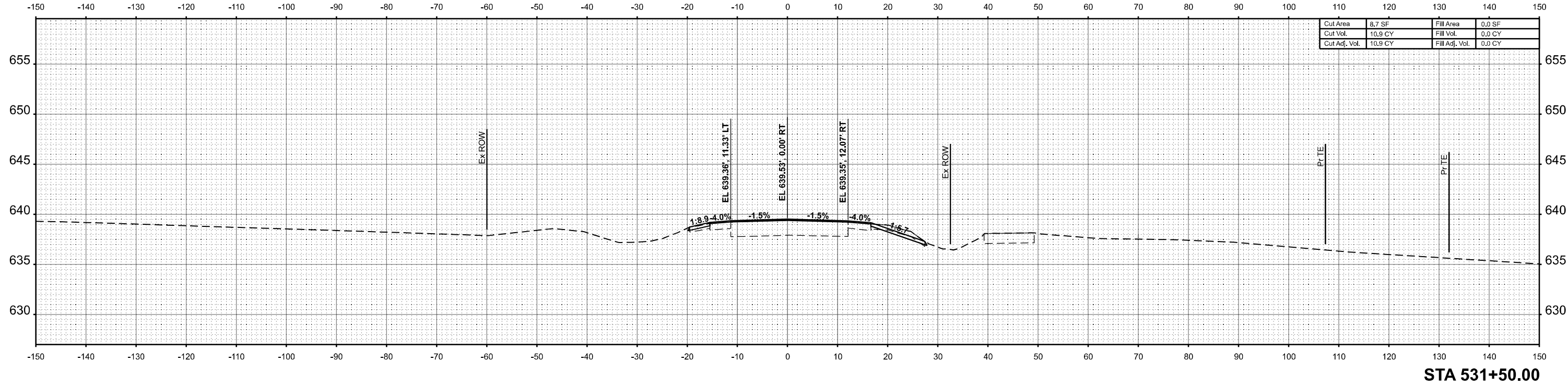
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS**  
**IL - 29 OVER LOCUST CREEK TRIBUTARY**

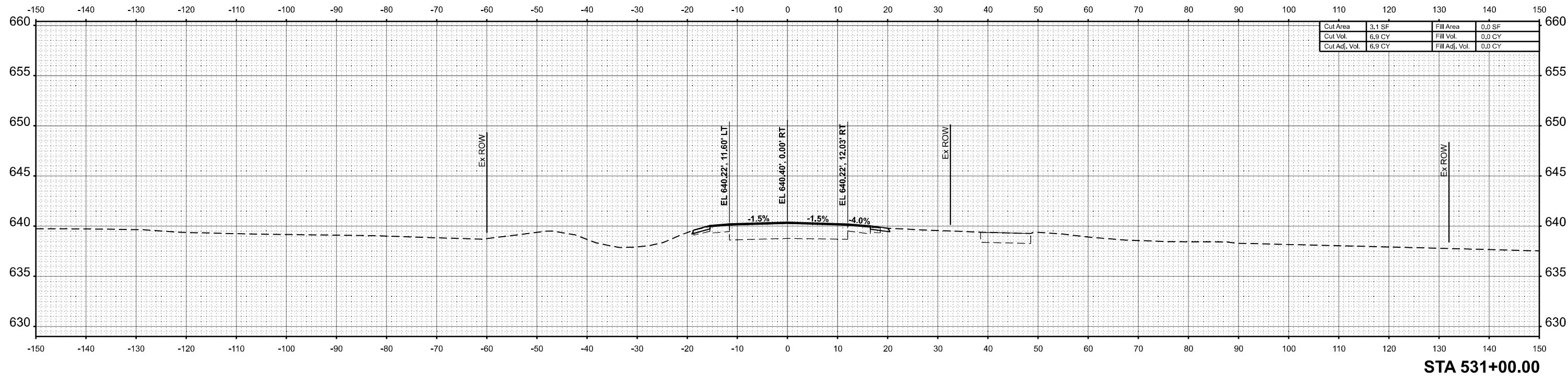
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| F.A.P. RTE.               | SECTION | COUNTY    | TOTAL SHEETS | SHEET NO. |
| 75                        | 2B-1    | CHRISTIAN | 42           | 33        |
| CONTRACT NO. 72994        |         |           |              |           |
| ILLINOIS FED. AID PROJECT |         |           |              |           |

SCALE: SHEET OF SHEETS STA. TO STA.

|                 |  |
|-----------------|--|
| DATE            |  |
| BY              |  |
| FINISHED SURVEY |  |
| PLOTTED         |  |
| NOTE BOOK       |  |
| AREAS CHECKED   |  |
| NO.             |  |



|                 |  |
|-----------------|--|
| DATE            |  |
| BY              |  |
| ORIGINAL SURVEY |  |
| PLOTTED         |  |
| NOTE BOOK       |  |
| AREAS CHECKED   |  |
| NO.             |  |



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**AMES Engineering, Inc.**  
CONSULTING ENGINEERS  
6330 Belmont Road, Suite 4B  
Downers Grove, IL 60516

USER NAME = msomer  
DESIGNED - MS  
DRAWN - SR, MA  
CHECKED - JAR  
DATE - 07/03/2024

REVISER -  
REVISER -  
REVISER -  
REVISER -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

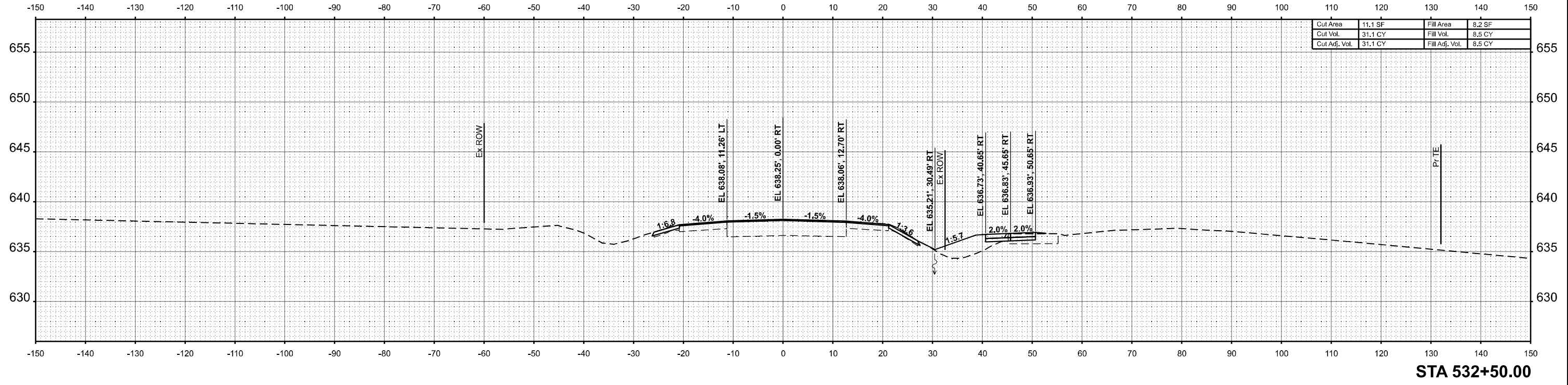
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IL - 29 OVER LOCUST CREEK TRIBUTARY**

SCALE: SHEET OF SHEETS STA. TO STA.

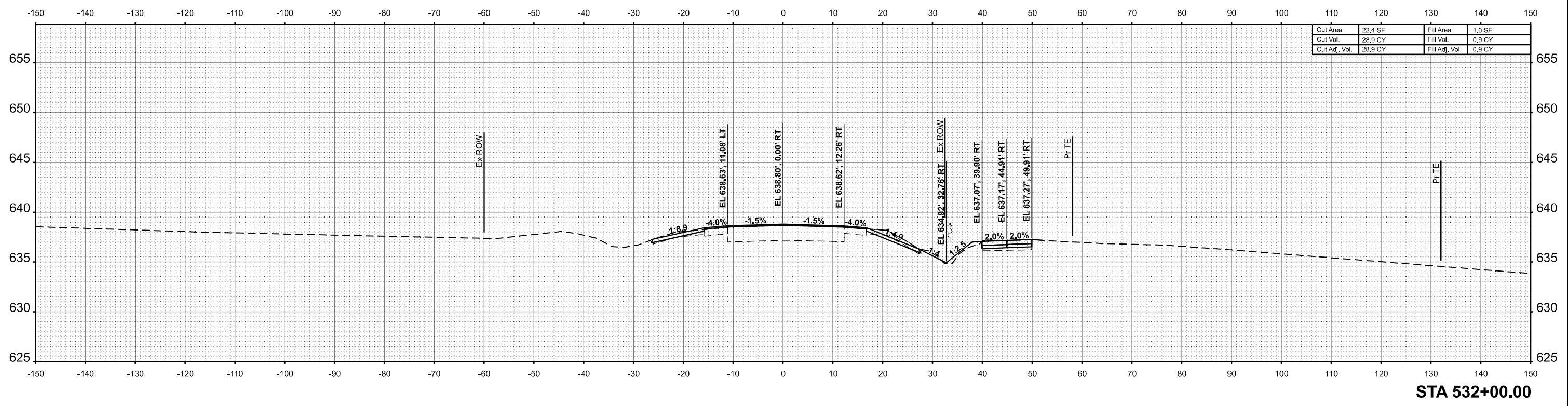
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| F.A.P. RTE.               | SECTION | COUNTY    | TOTAL SHEETS | SHEET NO. |
| 75                        | 2B-1    | CHRISTIAN | 42           | 34        |
| CONTRACT NO. 72994        |         |           |              |           |
| ILLINOIS FED. AID PROJECT |         |           |              |           |



|              |               |
|--------------|---------------|
| DATE         |               |
| BY           |               |
| FINAL SURVEY | SURVEYED      |
| NOTE BOOK    | PLOTTED       |
| NO.          | AREAS CHECKED |



|                 |               |
|-----------------|---------------|
| DATE            |               |
| BY              |               |
| ORIGINAL SURVEY | SURVEYED      |
| NOTE BOOK       | PLOTTED       |
| NO.             | AREAS CHECKED |



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**AMES Engineering, Inc.**  
CONSULTING ENGINEERS  
6330 Belmont Road, Suite 4B  
Downers Grove, IL 60516

|            |              |          |              |         |   |
|------------|--------------|----------|--------------|---------|---|
| USER NAME  | = msomer     | DESIGNED | - MS         | REVISED | - |
|            |              | DRAWN    | - SR, MA     | REVISED | - |
| PLOT SCALE | = SSCALE\$   | CHECKED  | - JAR        | REVISED | - |
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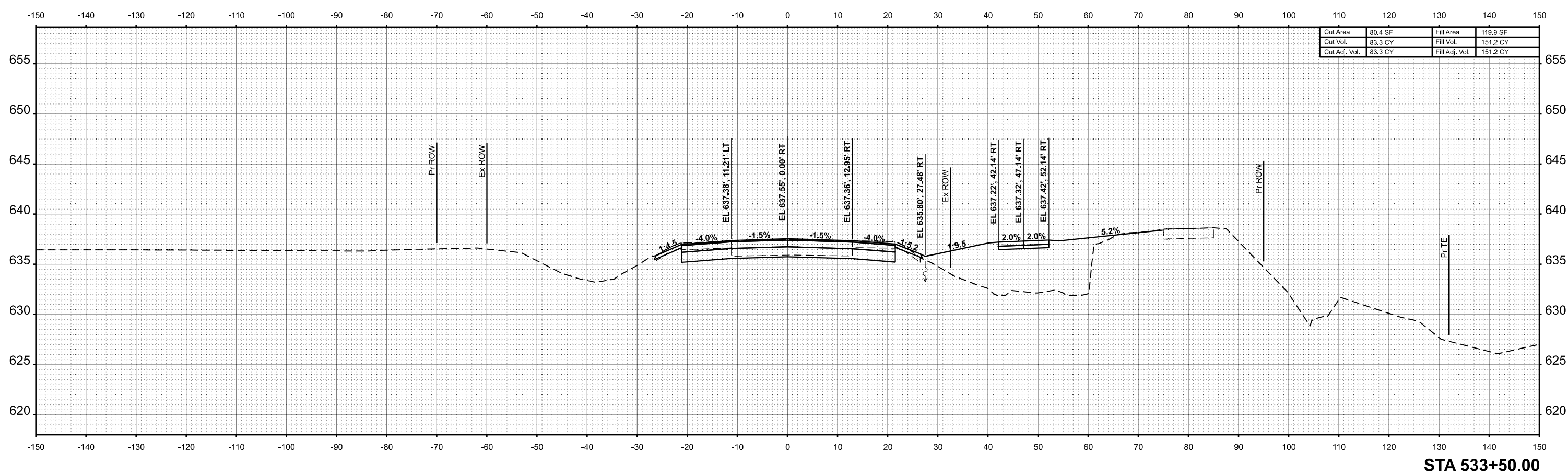
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

|  |       |           |              |
|--|-------|-----------|--------------|
| <b>CROSS SECTIONS</b>                      |       |           |              |
| <b>IL - 29 OVER LOCUST CREEK TRIBUTARY</b> |       |           |              |
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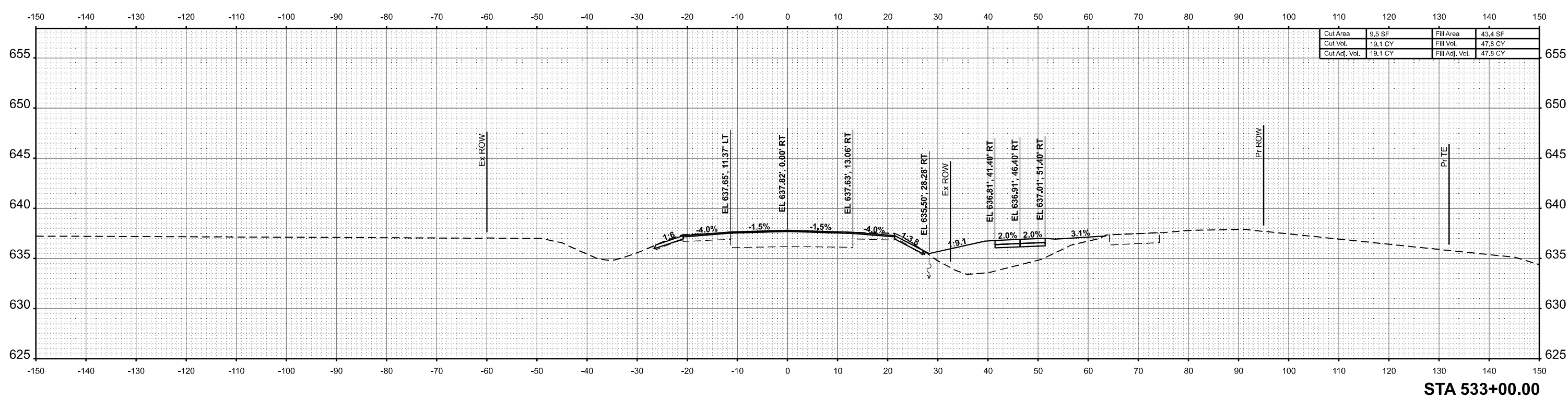
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|---------------------------|---------|-----------|--------------|-----------|
| F.A.P. RTE.               | SECTION | COUNTY    | TOTAL SHEETS | SHEET NO. |
| 75                        | 2B-1    | CHRISTIAN | 42           | 35        |
| CONTRACT NO. 72994        |         |           |              |           |
| ILLINOIS FED. AID PROJECT |         |           |              |           |

|          |  |
|----------|--|
| DATE     |  |
| BY       |  |
| SURVEYED |  |
| PLOTTED  |  |
| TEMPLATE |  |
| AREAS    |  |
| CHECKED  |  |
| NO.      |  |

|          |  |
|----------|--|
| DATE     |  |
| BY       |  |
| SURVEYED |  |
| PLOTTED  |  |
| TEMPLATE |  |
| AREAS    |  |
| CHECKED  |  |
| NO.      |  |



|               |         |                |          |
|---------------|---------|----------------|----------|
| Cut Area      | 80.4 SF | Fill Area      | 119.9 SF |
| Cut Vol.      | 83.3 CY | Fill Vol.      | 151.2 CY |
| Cut Adj. Vol. | 83.3 CY | Fill Adj. Vol. | 151.2 CY |



|               |         |                |         |
|---------------|---------|----------------|---------|
| Cut Area      | 9.5 SF  | Fill Area      | 43.4 SF |
| Cut Vol.      | 19.1 CY | Fill Vol.      | 47.8 CY |
| Cut Adj. Vol. | 19.1 CY | Fill Adj. Vol. | 47.8 CY |

MODEL: \$MODELNAME\$  
FILE NAME: I-29-AS-SHEETS.dgn

**AMES Engineering, Inc.**  
CONSULTING ENGINEERS  
6330 Belmont Road, Suite 4B  
Downers Grove, IL 60516

|            |              |          |              |         |   |
|------------|--------------|----------|--------------|---------|---|
| USER NAME  | = msomer     | DESIGNED | - MS         | REVISED | - |
|            |              | DRAWN    | - SR, MA     | REVISED | - |
| PLOT SCALE | = \$SCALE\$  | CHECKED  | - JAR        | REVISED | - |
| PLOT DATE  | = 07/03/2024 | DATE     | - 07/03/2024 | REVISED | - |

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

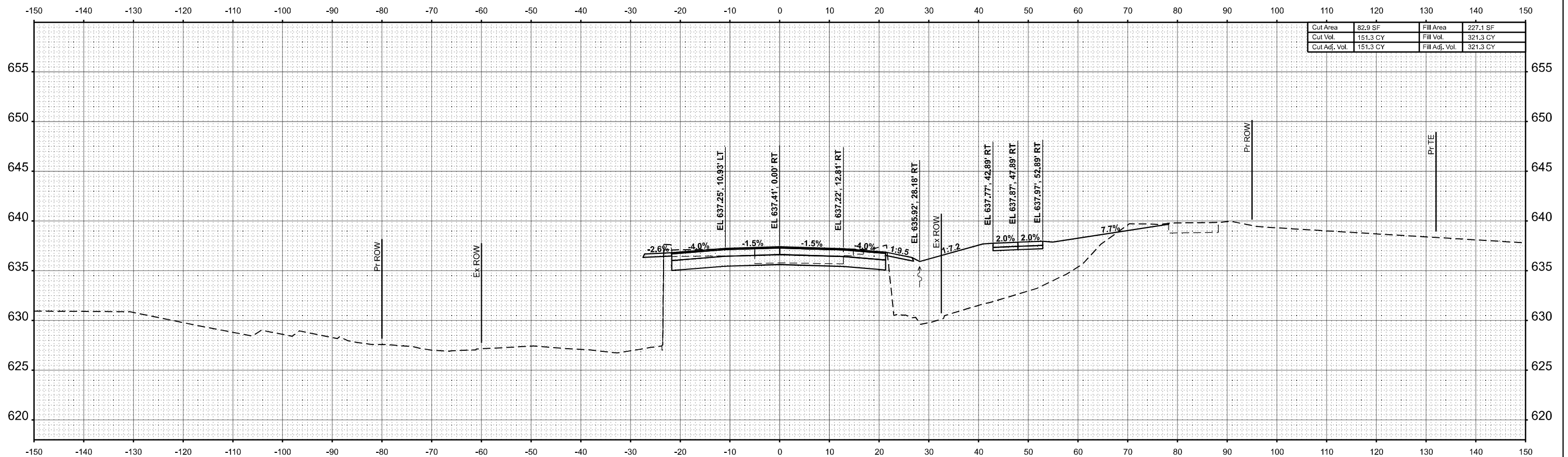
**CROSS SECTIONS**  
**IL - 29 OVER LOCUST CREEK TRIBUTARY**

|                           |         |           |              |           |
|---------------------------|---------|-----------|--------------|-----------|
| F.A.P. RTE.               | SECTION | COUNTY    | TOTAL SHEETS | SHEET NO. |
| 75                        | 2B-1    | CHRISTIAN | 42           | 36        |
| CONTRACT NO. 72994        |         |           |              |           |
| ILLINOIS FED. AID PROJECT |         |           |              |           |

SCALE: SHEET OF SHEETS STA. TO STA.

|              |               |      |
|--------------|---------------|------|
| FINAL SURVEY | SURVEYED      | DATE |
| NOTE BOOK    | PLOTTED       | BY   |
| NO.          | TEMPLATE      |      |
|              | AREAS CHECKED |      |

|                 |               |      |
|-----------------|---------------|------|
| ORIGINAL SURVEY | SURVEYED      | DATE |
| NOTE BOOK       | PLOTTED       | BY   |
| NO.             | TEMPLATE      |      |
|                 | AREAS CHECKED |      |



|               |          |                |          |
|---------------|----------|----------------|----------|
| Cut Area      | 82.9 SF  | Fill Area      | 227.1 SF |
| Cut Vol.      | 151.3 CY | Fill Vol.      | 321.3 CY |
| Cut Adj. Vol. | 151.3 CY | Fill Adj. Vol. | 321.3 CY |

STA 534+00.00

MODEL: \$MODELNAME\$  
FILE NAME: I:\ROADS\SHEETS\303p

**AMES Engineering, Inc.**  
CONSULTING ENGINEERS  
6330 Belmont Road, Suite 4B  
Downers Grove, IL 60516

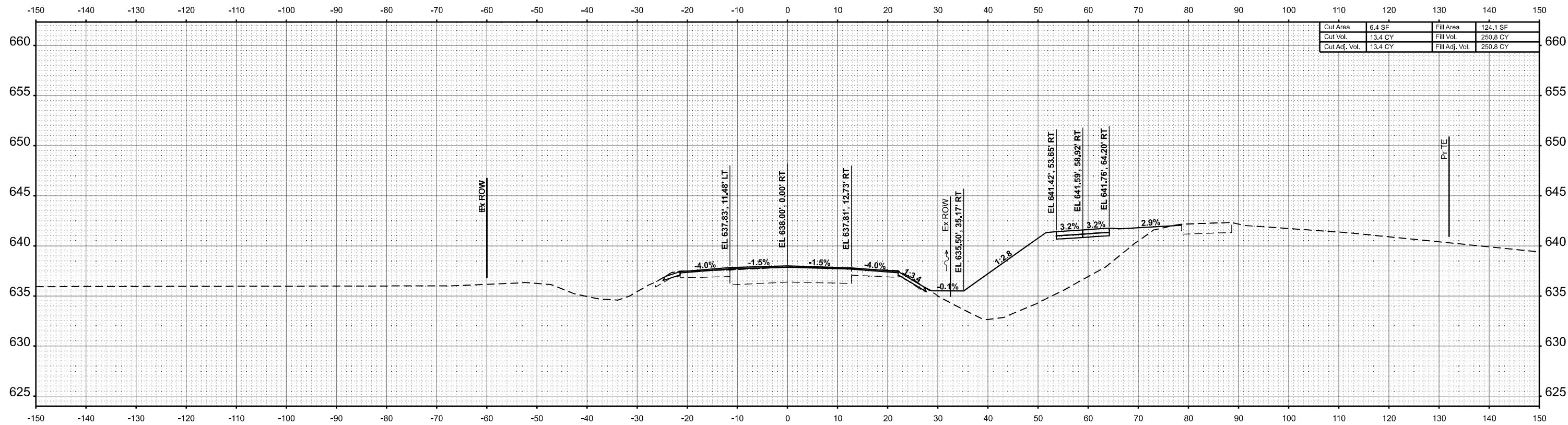
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|--------------|-------------|------------|------------|-----------|--|
| USER NAME =  | msonier     | DESIGNED - | MS         | REVISED - |  |
|              |             | DRAWN -    | SR, MA     | REVISED - |  |
| PLOT SCALE = | \$\$SCALE\$ | CHECKED -  | JAR        | REVISED - |  |
| PLOT DATE =  | 07/03/2024  | DATE -     | 07/03/2024 | REVISED - |  |

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

|  |                              |
|--|------------------------------|
| <b>CROSS SECTIONS</b>                      |                              |
| <b>IL - 29 OVER LOCUST CREEK TRIBUTARY</b> |                              |
| SCALE:                                     | SHEET OF SHEETS STA. TO STA. |

|                           |         |           |              |           |
|---------------------------|---------|-----------|--------------|-----------|
| F.A.P. RTE.               | SECTION | COUNTY    | TOTAL SHEETS | SHEET NO. |
| 75                        | 2B-1    | CHRISTIAN | 42           | 37        |
| CONTRACT NO. 72994        |         |           |              |           |
| ILLINOIS FED. AID PROJECT |         |           |              |           |

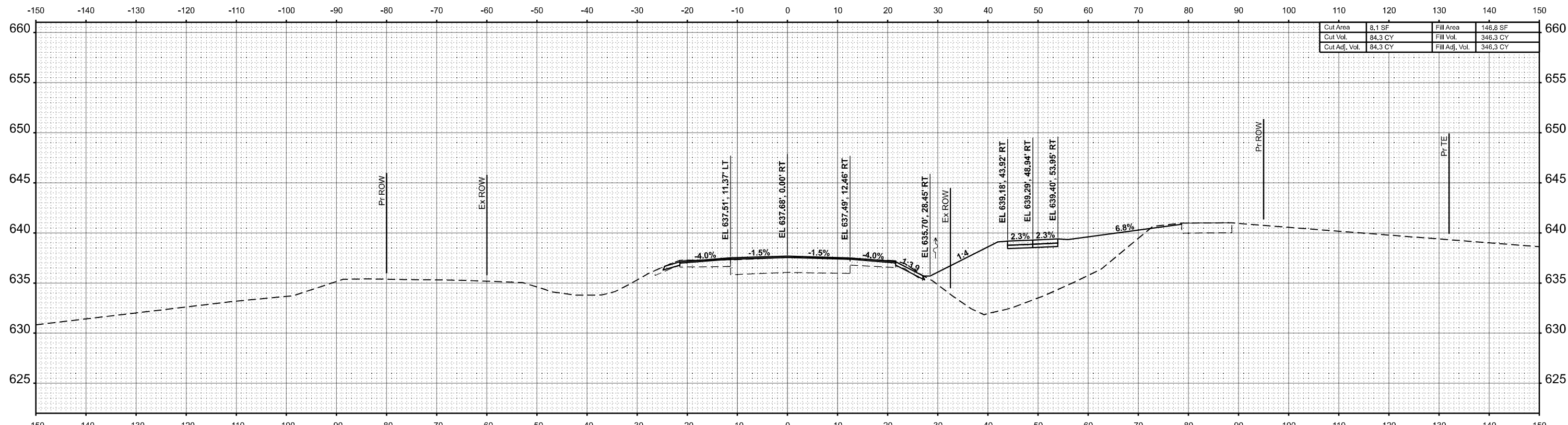
|                  |               |    |      |
|------------------|---------------|----|------|
| FINAL SURVEY NO. | SURVEYED      | BY | DATE |
|                  | PLOTTED       |    |      |
| NO.              | TEMPLATE      |    |      |
|                  | AREAS CHECKED |    |      |



|               |         |                |          |
|---------------|---------|----------------|----------|
| Cut Area      | 6.4 SF  | Fill Area      | 124.1 SF |
| Cut Vol.      | 13.4 CY | Fill Vol.      | 250.8 CY |
| Cut Adj. Vol. | 13.4 CY | Fill Adj. Vol. | 250.8 CY |

STA 535+00.00

|                     |               |    |      |
|---------------------|---------------|----|------|
| ORIGINAL SURVEY NO. | SURVEYED      | BY | DATE |
|                     | PLOTTED       |    |      |
| NO.                 | TEMPLATE      |    |      |
|                     | AREAS CHECKED |    |      |



|               |         |                |          |
|---------------|---------|----------------|----------|
| Cut Area      | 8.1 SF  | Fill Area      | 146.8 SF |
| Cut Vol.      | 84.3 CY | Fill Vol.      | 346.3 CY |
| Cut Adj. Vol. | 84.3 CY | Fill Adj. Vol. | 346.3 CY |

STA 534+50.00

MODEL: \$MODELNAME\$ FILE NAME: I-29-S-SHEETS.dgn



|                        |                   |           |
|------------------------|-------------------|-----------|
| USER NAME = msomer     | DESIGNED - MS     | REVISED - |
|                        | DRAWN - SR, MA    | REVISED - |
| PLOT SCALE = \$SCALE\$ | CHECKED - JAR     | REVISED - |
| PLOT DATE = 07/03/2024 | DATE - 07/03/2024 | REVISED - |

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

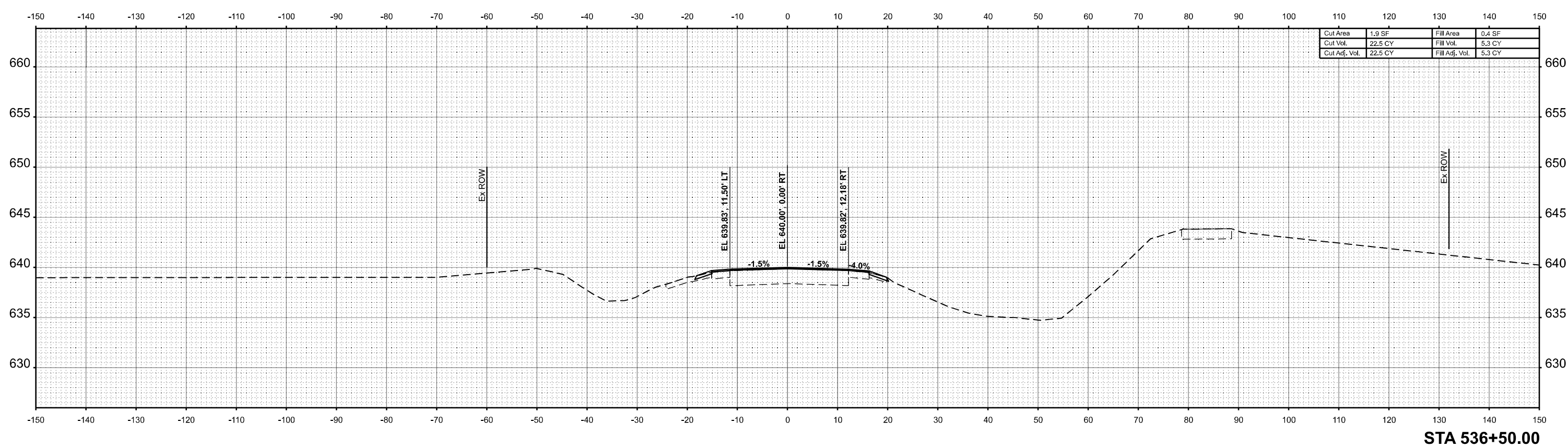
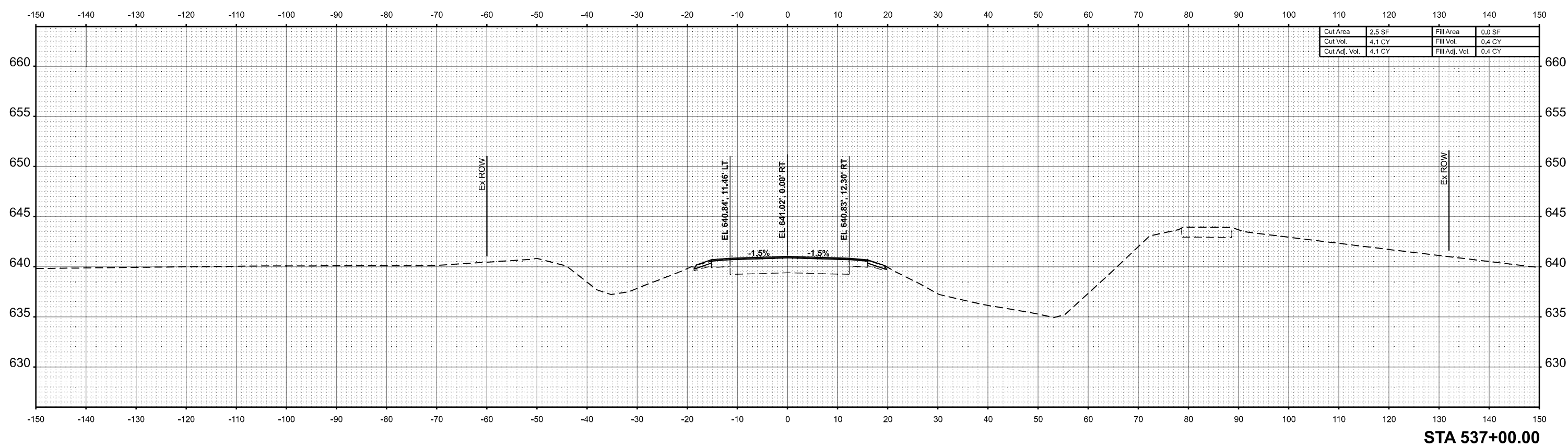
|  |       |           |              |
|--|-------|-----------|--------------|
| <b>CROSS SECTIONS</b>                      |       |           |              |
| <b>IL - 29 OVER LOCUST CREEK TRIBUTARY</b> |       |           |              |
| SCALE:                                     | SHEET | OF SHEETS | STA. TO STA. |

|                           |                |                    |                   |                |
|---------------------------|----------------|--------------------|-------------------|----------------|
| F.A.P. RTE. = 75          | SECTION = 2B-1 | COUNTY = CHRISTIAN | TOTAL SHEETS = 42 | SHEET NO. = 38 |
| CONTRACT NO. 72994        |                |                    |                   |                |
| ILLINOIS FED. AID PROJECT |                |                    |                   |                |



|               |  |
|---------------|--|
| DATE          |  |
| BY            |  |
| SURVEYED      |  |
| PLOTTED       |  |
| TEMPLATE      |  |
| NOTE BOOK     |  |
| AREAS CHECKED |  |
| NO.           |  |

|               |  |
|---------------|--|
| DATE          |  |
| BY            |  |
| SURVEYED      |  |
| PLOTTED       |  |
| TEMPLATE      |  |
| NOTE BOOK     |  |
| AREAS CHECKED |  |
| NO.           |  |



MODEL: \$MODELNAME\$  
FILE NAME: I:\ROADS\SHEETS\301p

**AMES Engineering, Inc.**  
CONSULTING ENGINEERS  
6330 Belmont Road, Suite 4B  
Downers Grove, IL 60516

|                        |                   |           |
|------------------------|-------------------|-----------|
| USER NAME = msomer     | DESIGNED - MS     | REVISED - |
|                        | DRAWN - SR, MA    | REVISED - |
| PLOT SCALE = \$SCALE\$ | CHECKED - JAR     | REVISED - |
| PLOT DATE = 07/03/2024 | DATE - 07/03/2024 | REVISED - |

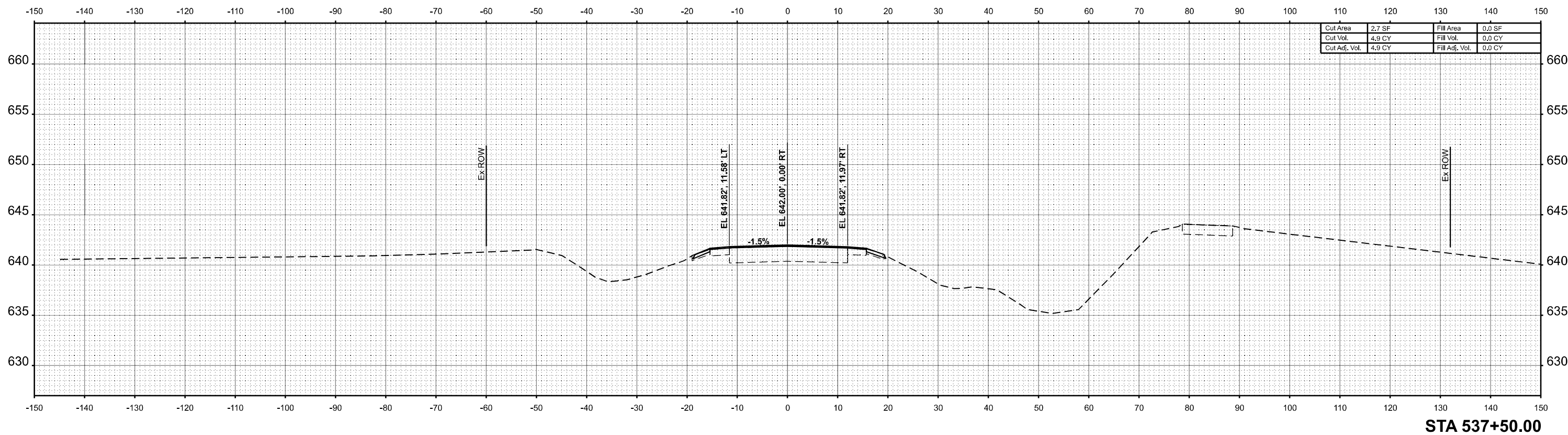
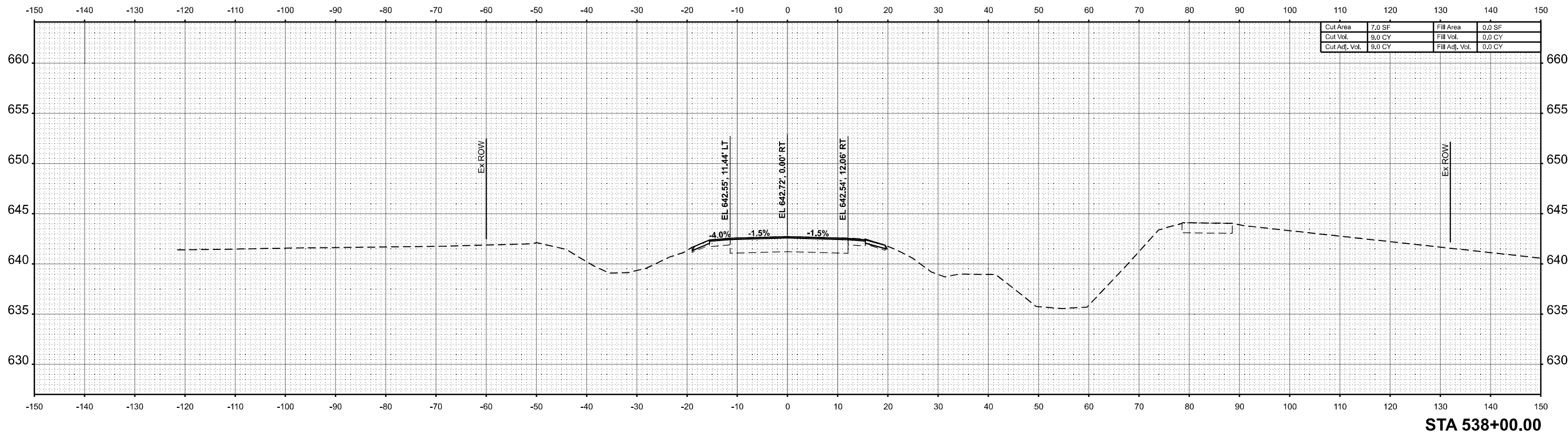
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

|  |       |           |              |
|--|-------|-----------|--------------|
| <b>CROSS SECTIONS</b>                      |       |           |              |
| <b>IL - 29 OVER LOCUST CREEK TRIBUTARY</b> |       |           |              |
| SCALE:                                     | SHEET | OF SHEETS | STA. TO STA. |

|                           |         |           |              |           |
|---------------------------|---------|-----------|--------------|-----------|
| F.A.P. RTE.               | SECTION | COUNTY    | TOTAL SHEETS | SHEET NO. |
| 75                        | 2B-1    | CHRISTIAN | 42           | 40        |
| CONTRACT NO. 72994        |         |           |              |           |
| ILLINOIS FED. AID PROJECT |         |           |              |           |

|               |  |
|---------------|--|
| DATE          |  |
| BY            |  |
| SURVEYED      |  |
| PLOTTED       |  |
| TEMPLATE      |  |
| NOTE BOOK     |  |
| AREAS CHECKED |  |
| NO.           |  |

|               |  |
|---------------|--|
| DATE          |  |
| BY            |  |
| SURVEYED      |  |
| PLOTTED       |  |
| TEMPLATE      |  |
| NOTE BOOK     |  |
| AREAS CHECKED |  |
| NO.           |  |



MODEL: \$MODELNAME\$  
FILE NAME: I-29-AS-SHEETS.dgn

**AMES Engineering, Inc.**  
CONSULTING ENGINEERS  
6330 Belmont Road, Suite 4B  
Downers Grove, IL 60516

|                        |                   |           |
|------------------------|-------------------|-----------|
| USER NAME = msomer     | DESIGNED - MS     | REVISED - |
|                        | DRAWN - SR, MA    | REVISED - |
| PLOT SCALE = \$SCALE\$ | CHECKED - JAR     | REVISED - |
| PLOT DATE = 07/03/2024 | DATE - 07/03/2024 | REVISED - |

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

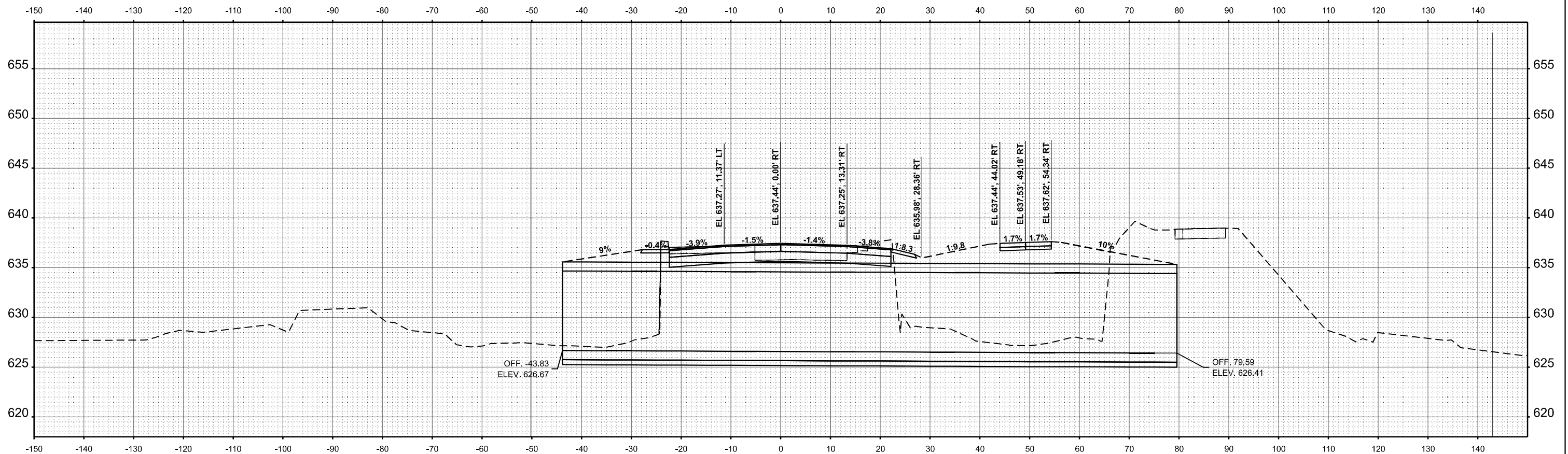
**CROSS SECTIONS**  
**IL - 29 OVER LOCUST CREEK TRIBUTARY**

SCALE: SHEET OF SHEETS STA. TO STA.

|                           |         |           |              |           |
|---------------------------|---------|-----------|--------------|-----------|
| F.A.P. RTE.               | SECTION | COUNTY    | TOTAL SHEETS | SHEET NO. |
| 75                        | 2B-1    | CHRISTIAN | 42           | 41        |
| CONTRACT NO. 72994        |         |           |              |           |
| ILLINOIS FED. AID PROJECT |         |           |              |           |

|                  |               |    |      |
|------------------|---------------|----|------|
| FINAL SURVEY NO. | SURVEYED      | BY | DATE |
| NOTE BOOK        | PLOTTED       |    |      |
| AREAS CHECKED    | TEMPLATE      |    |      |
|                  | AREAS CHECKED |    |      |

|                     |               |    |      |
|---------------------|---------------|----|------|
| ORIGINAL SURVEY NO. | SURVEYED      | BY | DATE |
| NOTE BOOK           | PLOTTED       |    |      |
| AREAS CHECKED       | TEMPLATE      |    |      |
|                     | AREAS CHECKED |    |      |



STA 533+87.00

MODEL: \$MODELNAME\$  
FILE NAME: IL-29-2B-1-SHEETS.dwg

**AMES Engineering, Inc.**  
CONSULTING ENGINEERS  
6330 Belmont Road, Suite 4B  
Downers Grove, IL 60516

|                        |                   |           |
|------------------------|-------------------|-----------|
| USER NAME = msomer     | DESIGNED - MS     | REVISED - |
| PLOT SCALE = \$SCALE\$ | DRAWN - SR, MA    | REVISED - |
| PLOT DATE = 07/03/2024 | CHECKED - JAR     | REVISED - |
|                        | DATE - 07/03/2024 | REVISED - |

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

|  |       |           |              |
|--|-------|-----------|--------------|
| <b>CROSS SECTIONS</b>                      |       |           |              |
| <b>IL - 29 OVER LOCUST CREEK TRIBUTARY</b> |       |           |              |
| SCALE:                                     | SHEET | OF SHEETS | STA. TO STA. |

|                    |         |                  |              |           |
|--------------------|---------|------------------|--------------|-----------|
| F.A.P. RTE.        | SECTION | COUNTY           | TOTAL SHEETS | SHEET NO. |
| 75                 | 2B-1    | CHRISTIAN        | 42           | 42        |
| CONTRACT NO. 72994 |         |                  |              |           |
| ILLINOIS           |         | FED. AID PROJECT |              |           |