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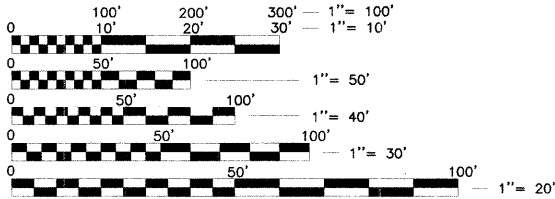
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IDOT HIGHWAY STANDARDS

|           |           |           |
|-----------|-----------|-----------|
| 000001-05 | 701001-01 | 720001    |
| 001006    | 701006-02 | 720006-01 |
| 280001-04 | 701011-01 | 720011    |
| 482001-02 | 701201-02 | 728001    |
| 542301-01 | 701301-02 | 780001-01 |
| 542311    | 701306-01 | 781001-02 |
| 542401    | 701311-02 | BLR 21-7  |
| 630301-04 | 701326-02 | BLR 22-5  |
| 635001    | 701901    | BLR 26    |
| 635006-02 |           | BLR 27    |
| 635011-01 |           |           |
| 642001    |           |           |

UTILITIES (POTENTIALLY IN PROJECT LIMITS)

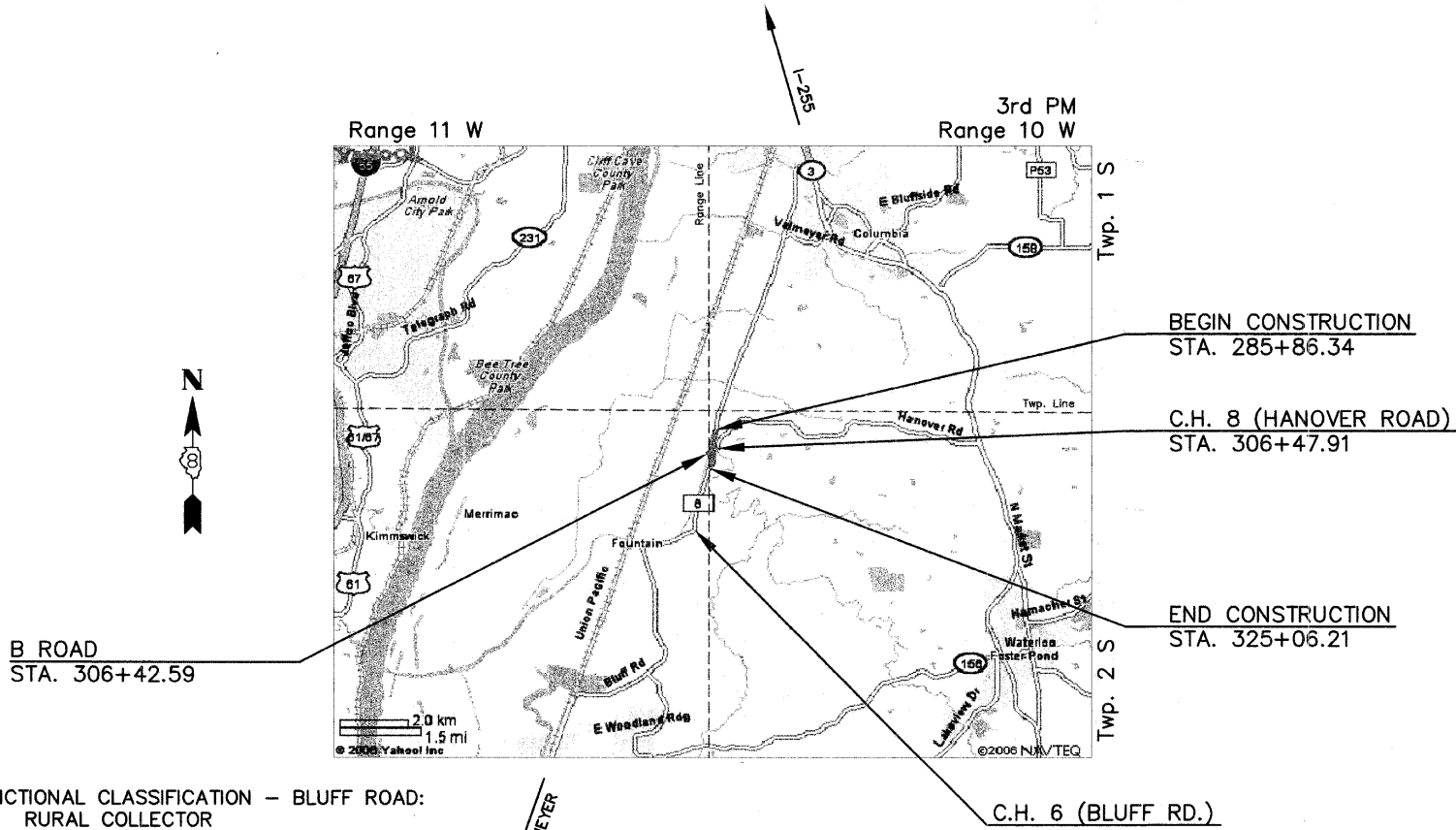
- AMEREN IP (ELECTRIC)
- CHARTER (CABLE TV)
- FOUNTAIN CREEK WATER DISTRICT (WATER)
- HARRISONVILLE TELEPHONE COMPANY (TELEPHONE)
- MONROE COUNTY ELECTRIC CO-OP (ELECTRIC)



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

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS  
PLANS FOR PROPOSED  
FEDERAL AID HIGHWAY IMPROVEMENT  
F.A.S. ROUTE 1857  
BLUFF ROAD (C.H. 6)  
SECTION 04-00071-00-BR  
PROJECT NO. BR-RS-1857(121)  
MONROE COUNTY  
STRUCTURE REPLACEMENT  
C-98-338-07



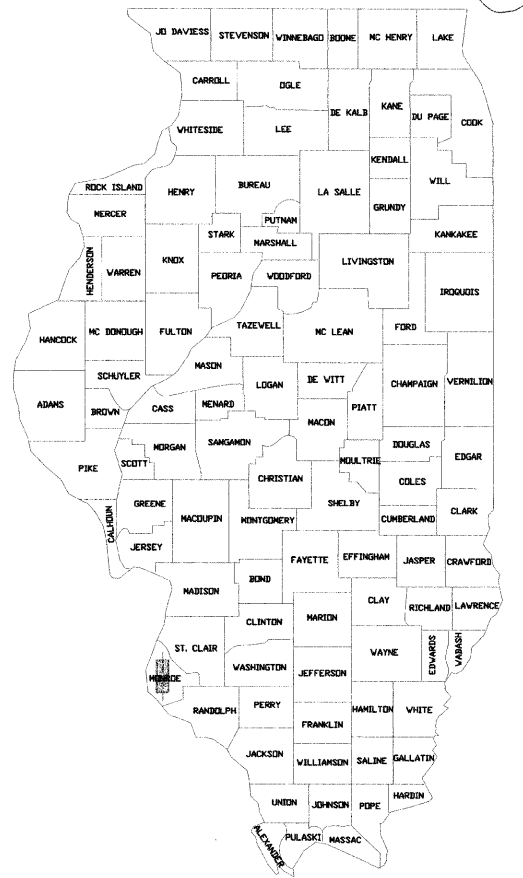
FUNCTIONAL CLASSIFICATION - BLUFF ROAD:  
RURAL COLLECTOR  
ADT: 2,900 (2007) 3,700 (2028)  
SPEED: 60 M.P.H. (DESIGN) 55 M.P.H. (POSTED)

FUNCTIONAL CLASSIFICATION - HANOVER ROAD:  
RURAL COLLECTOR  
ADT: 600 (2007) 850 (2028)

FUNCTIONAL CLASSIFICATION - B ROAD:  
LOCAL ROAD  
ADT: 50 (2007) 75 (2028)

LOCATION MAP  
N.T.S.  
LENGTH OF PROJECT  
GROSS LENGTH = 3,925.19' (0.743 MILES)  
NET LENGTH = 3,919.87' (0.742 MILES)

| FIS ROUTE                    | IDOT SECTION   | COUNTY | TOTAL SHEETS | SHEET NO. |
|------------------------------|----------------|--------|--------------|-----------|
| 1857                         | 04-00071-00-BR | MONROE | 67           | 1         |
| FEDERAL AID PROJECT          |                |        | ILLINOIS     |           |
| IDOT JOB NO. BR-RS-1857(121) |                |        |              |           |
| IDOT CONTRACT NO. 97323      |                |        |              |           |



LOCATION OF SECTION INDICATED THUS: [Symbol]

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS

APPROVED Nov 8 2007  
[Signature]  
MONROE COUNTY ENGINEER  
MONROE COUNTY HIGHWAY DEPARTMENT

PASSED Nov 13 2007  
[Signature]  
DISTRICT 8 ENGINEER  
LOCAL ROADS & STREETS

RELEASED FOR  
BID BASED ON  
LIMITED REVIEW Nov 13 2007  
[Signature]  
DEPUTY DIRECTOR OF HIGHWAYS  
REGION FIVE ENGINEER



Brian J. Gettinger 11/8/07  
BRIAN J. GETTINGER, P.E.  
LICENSE NO. 062-057506  
EXPIRATION DATE 11-30-2009

PREPARED BY:  
TWM  
THOUVENOT, WADE & MOERCHEN, INC.  
TWM JOB NO. T16-040125

P:\040125\Roadway Plans\DWG\CD\VER, NOTES, SCHEDULES, TYPICALS, & DETAILS.dwg 11/8/2007 9:44:18 AM CST

GENERAL NOTES

ANY REFERENCE TO A STANDARD IN THESE PLANS SHALL BE INTERPRETED TO MEAN THE EDITION, AS INDICATED BY THE SUB-NUMBER LISTED IN THE INDEX OF SHEETS, OR THE COPY OF THE STANDARD INCLUDED IN THESE PLANS. FOR CODED PAY ITEM DESCRIPTIONS, INCIDENTAL ITEMS, AND ALL MATERIAL SPECIFICATIONS, PLEASE REFER TO THE LATEST EDITION OF THE IDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.

ANY FACILITIES OR APPURTENANCES, WHICH ARE THE PROPERTY OF ANY PUBLIC UTILITY LOCATED WITHIN THE LIMITS OF CONSTRUCTION, SHALL BE RELOCATED OR ADJUSTED BY THEIR RESPECTIVE OWNERS. THE CONTRACTOR SHALL NOTIFY AND COOPERATE WITH THE OWNERS OF ANY SUCH FACILITY IN THEIR REMOVAL AND ADJUST HIS OPERATIONS, IN ORDER THAT, THE UTILITY'S OPERATIONS AND THE CONSTRUCTION OF THIS PROJECT MAY PROGRESS IN A REASONABLE MANNER.

THE TYPE, SIZE, AND LOCATION OF UTILITIES, AS DELINEATED IN THESE TOPOGRAPHIC LAND SURVEY DOCUMENTS AND/OR CIVIL ENGINEERING DESIGN DOCUMENTS, HAVE BEEN DETERMINED BY REVIEW OF AVAILABLE EXISTING "AS-BUILT" OR RECORD DRAWINGS, FIELD SURVEY OF J.U.L.I.E. MARKED UTILITIES, OR FIELD SURVEY OF ABOVE GROUND SURFACE UTILITY FEATURES. THE OWNER AND ENGINEER HAVE NOT UNDERTAKEN SUBSURFACE EXPLORATORY INVESTIGATIONS TO CONFIRM OR VERIFY THE UTILITIES SHOWN ON THESE DOCUMENTS; THEREFORE THEIR EXACT LOCATION, SIZE, AND FUNCTION MUST BE CONSIDERED APPROXIMATE AND MUST BE FIELD CONFIRMED BY THE CONTRACTOR.

THE ENGINEER AND OWNER FURTHER DO NOT WARRANT THAT ALL UTILITIES HAVE BEEN ILLUSTRATED ON THESE DOCUMENTS. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR CONTACTING J.U.L.I.E. FOR FIELD VERIFICATION OF ALL UTILITIES ON THE SITE PRIOR TO COMMENCEMENT OF CONSTRUCTION. IF THE CONTRACTOR DETERMINES THAT SUBSTANTIAL DISCREPANCY EXISTS BETWEEN FIELD VERIFIED UTILITIES AND THESE PLANS (WHICH WOULD SIGNIFICANTLY AFFECT THE FUNCTION, COST, OR PERFORMANCE OF THE PROJECT), THE CONTRACTOR SHALL IMMEDIATELY CONTACT THE ENGINEER FOR CLARIFICATION AND PROJECT DIRECTION.

ALL EXISTING ROADWAY FEATURES (SUCH AS CULVERT HEADWALLS, RIP RAP, CURB, PAVEMENT, ETC.) LOCATED WITHIN THE CONSTRUCTION LIMITS ARE TO BE REMOVED UNLESS NOTED OTHERWISE ON THE PLANS. ALL REMOVAL OF EXISTING ROADWAY FEATURES SHALL BE INCLUDED IN THE PAVEMENT REMOVAL QUANTITY.

EVERY TREE SHALL BE SAVED, IF POSSIBLE. SHOULD THE ENGINEER'S DECISION INCREASE OR DECREASE THE QUANTITIES OF WORK TO BE PERFORMED FROM THE PLANS, THE CONTRACTOR SHALL ACCEPT PAYMENT AS STATED IN ARTICLE 109.04 OF THE STANDARD SPECIFICATIONS. TREES OUTSIDE THE LIMITS OF CONSTRUCTION SHALL NOT BE DISTURBED UNLESS DESIGNATED BY THE ENGINEER.

THE SAW CUTTING OF EXISTING PAVEMENT, NECESSARY FOR ITS REMOVAL, SHALL BE UNCLUDED IN THE COST OF THE ITEM FOR WHICH THE SAW CUT IS BEING MADE. THE REMOVAL OF ALL EXISTING AGGREGATE AND/OR OIL & CHIP ENTRANCE PAVEMENT SHALL BE INCLUDED IN THE EARTH EXCAVATION QUANTITY AND SHALL NOT BE MEASURED, NOR PAID FOR, AS A SEPARATE REMOVAL ITEM. ALL EXISTING ROADWAY PAVEMENT THAT CONFLICTS WITH THE CONSTRUCTION OF THIS PROJECT (AS INDICATED BY CROSS-HATCHING ON THE CROSS SECTIONS) SHALL BE REMOVED AND DISPOSED OF OR PLACED AS EMBANKMENT IN ACCORDANCE WITH SECTIONS 202.03 AND 205 OF THE LATEST EDITION OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.

STAGE CONSTRUCTION OF THIS PROJECT WARRANTS THE USE OF 4-FOOT WIDE TEMPORARY SHOULDERS AND TEMPORARY RAMPS DURING CONSTRUCTION. ALL TEMPORARY RAMPS ARE INCLUDED IN THE LEVELING BINDER (MACHINE METHOD), N70 QUANTITY.

ALL TEMPORARY AND PERMANENT EROSION CONTROL DEVICES SHALL BE LOCATED AS SHOWN ON THE EROSION CONTROL PLAN. IT IS THE CONTRACTOR'S RESPONSIBILITY TO INSURE THAT ALL EROSION AND DISPLACED SEDIMENT DOES NOT MIGRATE OFF SITE. IF UNEXPECTED EROSION OR SEDIMENTATION OCCURS (OR IF THE EROSION PLAN STRUCTURES BECOME DAMAGED), THE CONTRACTOR SHALL PROVIDE SUFFICIENT MEASURES TO REPAIR, REPLACE, OR INSTALL EROSION CONTROL STRUCTURES TO INSURE OFF-SITE DAMAGE DOES NOT OCCUR. ANY SEDIMENT OR EROSION DAMAGE WHICH OCCURS OFF-SITE SHALL BE REPAIRED BY THE CONTRACTOR AT HIS/HER EXPENSE.

ALL EARTH SURFACES DISTURBED BY CONSTRUCTION, OR AS DIRECTED BY THE ENGINEER, SHALL BE SEEDED AND MULCHED ACCORDING TO SECTIONS 250 AND 251 OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION. ALL TEMPORARY EROSION CONTROL SEEDING SHALL BE IMPLEMENTED ACCORDING TO SECTION 280 OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.

THE CONTRACTOR MAY SUBSTITUTE A 9" THICK LAYER OF CA-4 AGGREGATE IN LIEU OF THE 12" THICK LIME MODIFIED SOIL IN AREAS THAT ARE LESS THAN 6 FEET IN WIDTH:

STA. 285+86.34 LT. TO STA. 288+67.00 LT. (APPROX.)  
STA. 285+86.34 RT. TO STA. 289+05.08 RT. (APPROX.)  
STA. 324+25.00 LT. TO STA. 325+06.21 LT. (APPROX.)  
STA. 323+64.45 RT. TO STA. 325+06.21 RT. (APPROX.)

ANY UNSUITABLE SUB-GRADE MATERIAL UNDERNEATH THE PROPOSED BASE COURSE WIDENING ON COUNTY HWY. 6 SHALL BE REMEDIATED ACCORDING TO ARTICLE 109.04 OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION. NO ADDITIONAL COMPENSATION WILL BE PROVIDED FOR THIS SUBSTITUTION.

IT IS INTENDED THAT ANY CULVERTS DAMAGED BY OR REMOVED BY THE CONTRACTOR (OTHER THAN THOSE NOTED ON THE PLANS TO BE REMOVED) WILL HAVE TO BE REMOVED AND/OR REPLACED AT THE CONTRACTOR'S SOLE EXPENSE. ALL CULVERT PIPE TO BE REMOVED (WHICH THE ENGINEER DEEMS FIT FOR RE-USE) SHALL BE SALVAGED ACCORDING TO ARTICLES 501.02 OF THE IDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION. ALL OTHER STORM SEWER AND CULVERT PIPE SHALL BE DISPOSED OF ACCORDING TO ARTICLE 202.03 OF THE STANDARD SPECIFICATIONS.

ALL TRAFFIC CONTROL (INCLUDING, BUT NOT LIMITED TO WORK ZONE, TEMPORARY, AND PERMANENT) SHALL BE FURNISHED, INSTALLED, MAINTAINED, RELOCATED, AND/OR REMOVED ACCORDING TO SECTION 701 OF THE LATEST EDITION OF THE IDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND THE LATEST EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.

ALL EXCAVATION ADJACENT TO THE EDGE OF PAVEMENT SHALL BE PROTECTED WITH EXTENDED LEG BARRICADES WITH APPROPRIATE LIGHTING.

NO OVERNIGHT LANE CLOSURES SHALL BE ALLOWED ON COUNTY HIGHWAY 6. LANE CLOSURES SHALL BE RESTRICTED TO MONDAY THROUGH SATURDAY.

TRAFFIC CONTROL SIGNS SHALL BE 48" FLUORESCENT ORANGE.

THE CONTRACTOR IS RESPONSIBLE FOR CONTACTING THE MONROE COUNTY HIGHWAY DEPARTMENT AT LEAST FORTY-EIGHT (48) HOURS IN ADVANCE PRIOR TO COMMENCEMENT OF ANY CONSTRUCTION ACTIVITIES OR WORK REQUIRING INSPECTION OR APPROVAL BY THE AFFECTED UNITS OF GOVERNMENT.

IT IS NOT WARRANTED THAT THIS DOCUMENT CONTAINS COMPLETE INFORMATION REGARDING EASEMENTS, RESERVATIONS, RESTRICTIONS, RIGHTS-OF-WAY, BUILDING LINE SETBACKS, AND OTHER ENCUMBRANCES. FOR COMPLETE INFORMATION, A TITLE OPINION OR COMMITMENT FOR TITLE INSURANCE SHOULD BE OBTAINED AND THOROUGHLY REVIEWED.

| FAS ROUTE                    | IDOT SECTION   | COUNTY   |
|------------------------------|----------------|----------|
| 1857                         | 04-00071-00-BR | MONROE   |
| FEDERAL AID PROJECT          |                | ILLINOIS |
| IDOT JOB NO. BR-RS-1857(121) |                |          |
| IDOT CONTRACT NO. 97323      |                |          |

SUMMARY OF QUANTITIES

| CODE NUMBER | ITEM                                                | UNIT   | TOTAL QUANTITY | ROADWAY QUANTITY | BRIDGE QUANTITY |
|-------------|-----------------------------------------------------|--------|----------------|------------------|-----------------|
| 20200100    | EARTH EXCAVATION                                    | CU YD  | 12,653         | 12,653           | -               |
| 20300100    | CHANNEL EXCAVATION                                  | CU YD  | 720            | -                | 720             |
| 20400800    | FURNISHED EXCAVATION                                | CU YD  | 46,481         | 46,315           | 166             |
| 25000200    | SEEDING, CLASS 2                                    | ACRE   | 9.3            | 9.3              | -               |
| 25000400    | NITROGEN FERTILIZER NUTRIENT                        | POUND  | 837            | 837              | -               |
| 25000500    | PHOSPHORUS FERTILIZER NUTRIENT                      | POUND  | 837            | 837              | -               |
| 25000600    | POTASSIUM FERTILIZER NUTRIENT                       | POUND  | 837            | 837              | -               |
| 25100115    | MULCH, METHOD 2                                     | ACRE   | 9.3            | 9.3              | -               |
| 28000250    | TEMPORARY EROSION CONTROL SEEDING                   | POUND  | 1,200          | 1,200            | -               |
| 28000300    | TEMPORARY DITCH CHECKS                              | EACH   | 100            | 100              | -               |
| 28000400    | PERIMETER EROSION BARRIER                           | FOOT   | 2,146          | 2,146            | -               |
| 28000500    | INLET AND PIPE PROTECTION                           | EACH   | 14             | 14               | -               |
| 28100708    | STONE DUMPED RIPRAP, CLASS A4 (SPECIAL)             | SQ YD  | 1,825          | 225              | 1,600           |
| 30200650    | PROCESSING MODIFIED SOIL 12"                        | SQ YD  | 9,094          | 9,094            | -               |
| 30201500    | LIME                                                | TON    | 215            | 215              | -               |
| 31101000    | SUB-BASE GRANULAR MATERIAL, TYPE B                  | TON    | 3,596          | 3,596            | -               |
| 35100700    | AGGREGATE BASE COURSE, TYPE A 8"                    | SQ YD  | 9,094          | 9,094            | -               |
| 40201000    | AGGREGATE FOR TEMPORARY ACCESS                      | TON    | 100            | 100              | -               |
| 40600100    | BITUMINOUS MATERIALS (PRIME COAT)                   | GALLON | 3,764          | 3,764            | -               |
| 40600300    | AGGREGATE (PRIME COAT)                              | TON    | 4.8            | 4.8              | -               |
| 40600635    | LEVELING BINDER (MACHINE METHOD), N70               | TON    | 369            | 369              | -               |
| 40600982    | HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT        | SQ YD  | 390            | 390              | -               |
| 40600990    | TEMPORARY RAMP                                      | SQ YD  | 58             | 58               | -               |
| 40603085    | HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70         | TON    | 1,877          | 1,877            | -               |
| 40603340    | HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70        | TON    | 1,322          | 1,247            | 75              |
| 44000100    | PAVEMENT REMOVAL                                    | SQ YD  | 8,064          | 8,064            | -               |
| 44000198    | HOT-MIX ASPHALT SURFACE REMOVAL, VARIABLE DEPTH     | SQ YD  | 91             | -                | -               |
| 44004400    | PAVEMENT REMOVAL (SPECIAL)                          | SQ YD  | 562            | 562              | -               |
| 48101200    | AGGREGATE SHOULDERS, TYPE B                         | TON    | 2,756          | 2,756            | -               |
| 48203100    | HOT-MIX ASPHALT SHOULDERS                           | TON    | 197            | 197              | -               |
| 50100200    | REMOVAL OF EXISTING STRUCTURES                      | L SUM  | 1              | -                | 1               |
| 50105220    | PIPE CULVERT REMOVAL                                | FOOT   | 213            | 213              | -               |
| 50300225    | CONCRETE STRUCTURES                                 | CU YD  | 52.0           | -                | 52.0            |
| 50300280    | CONCRETE ENCASEMENT                                 | CU YD  | 51.8           | -                | 51.8            |
| 50400505    | PRECAST PRESTRESSED CONCRETE DECK BEAMS (27" DEPTH) | SQ FT  | 4,620          | -                | 4,620           |
| 50500505    | STUD SHEAR CONNECTORS                               | EACH   | 88             | -                | 88              |
| 50800105    | REINFORCEMENT BARS                                  | POUND  | 5,700          | -                | 5,700           |
| 50901050    | STEEL <del>RAILING</del> TYPE SM                    | FOOT   | 280            | -                | 280             |
| 51201400    | FURNISHING STEEL PILES HP10X42                      | FOOT   | 785            | -                | 785             |
| 51201600    | FURNISHING STEEL PILES HP12X53                      | FOOT   | 1,260          | -                | 1,260           |
| 51202305    | DRIVING PILES                                       | FOOT   | 2,045          | -                | 2,045           |
| 51203400    | TEST PILE STEEL HP10X42                             | EACH   | 2              | -                | 2               |
| 51203600    | TEST PILE STEEL HP12X53                             | EACH   | 2              | -                | 2               |
| 51500100    | NAME PLATES                                         | EACH   | 1              | -                | 1               |
| 542A1069    | PIPE CULVERTS, CLASS A, TYPE 2 24"                  | FOOT   | 70             | 70               | -               |
| 542A1093    | PIPE CULVERTS, CLASS A, TYPE 2 48"                  | FOOT   | 104            | 104              | -               |
| 54200643    | PIPE CULVERTS, TYPE 1,                              | FOOT   | 115            | 115              | -               |
|             | CORRUGATED STEEL OR ALUMINUM CULVERT PIPE 18"       |        |                |                  |                 |
| 5421D015    | PIPE CULVERTS, CLASS D, TYPE 1 15" (TEMPORARY)      | FOOT   | 63             | 63               | -               |
| 54213669    | PRECAST REINFORCED CONCRETE FLARED END SECTIONS 24" | EACH   | 2              | 2                | -               |
| 54213693    | PRECAST REINFORCED CONCRETE FLARED END SECTIONS 48" | EACH   | 2              | 2                | -               |
| 54215553    | METAL END SECTIONS 18"                              | EACH   | 6              | 6                | -               |
| 54247130    | GRATING FOR CONCRETE FLARED END SECTION 24"         | EACH   | 2              | 2                | -               |
| 58100200    | WATERPROOFING MEMBRANE SYSTEM                       | SQ YD  | 513.4          | -                | 513.4           |
| 58300100    | PORTLAND CEMENT MORTAR FAIRING COURSE               | FOOT   | 1,400          | -                | 1,400           |
| * 63000130  | STEEL PLATE BEAM GUARD RAIL, TYPE A (SPECIAL)       | FOOT   | 687.5          | 687.5            | -               |
| * 63100075  | TRAFFIC BARRIER TERMINAL, TYPE 5A                   | EACH   | 4              | 4                | -               |
| * 63100167  | TRAFFIC BARRIER TERMINAL TYPE 1, SPECIAL (TANGENT)  | EACH   | 6              | 6                | -               |
| 63200310    | GUARDRAIL REMOVAL                                   | FOOT   | 140            | 140              | -               |
| 67100100    | MOBILIZATION                                        | L SUM  | 1              | 1                | -               |
| 70101700    | TRAFFIC CONTROL AND PROTECTION                      | L SUM  | 1              | 1                | -               |
| 70101800    | TRAFFIC CONTROL AND PROTECTION (SPECIAL)            | L SUM  | 1              | 1                | -               |
| 70300100    | SHORT-TERM PAVEMENT MARKING                         | FOOT   | 1,000          | 1,000            | -               |
| 70300220    | TEMPORARY PAVEMENT MARKING LINE 4"                  | FOOT   | 16,625         | 16,625           | -               |
| 70301000    | WORK ZONE PAVEMENT MARKING REMOVAL                  | SQ FT  | 167.0          | 167.0            | -               |
| * 78001110  | PAINT PAVEMENT MARKING - LINE 4"                    | FOOT   | 16,625         | 16,625           | -               |
| * 78100100  | RAISED REFLECTIVE PAVEMENT MARKER                   | EACH   | 52             | 52               | -               |
| * 78200410  | GUARDRAIL MARKERS, TYPE A                           | EACH   | 12             | 12               | -               |
| * 78200510  | BARRIER WALL MARKERS, TYPE A                        | EACH   | 6              | 6                | -               |
| * 78201000  | TERMINAL MARKER - DIRECT APPLIED                    | EACH   | 6              | 6                | -               |
| 70055400    | RUMBLE STRIP                                        | FOOT   | 1,024          | 1,024            | -               |

NOTES:

- SPECIALTY ITEMS INDICATED BY \* (THIS SHEET ONLY).
- QUANTITY COMPUTATION FACTORS (BELOW - AS PER PAY ITEM ABOVE):

|                                             |                     |                                              |                     |
|---------------------------------------------|---------------------|----------------------------------------------|---------------------|
| NITROGEN FERTILIZER NUTRIENT                | 90 LB./ACRE         | HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70 | 0.056 TON/SQ. YD./" |
| PHOSPHORUS FERTILIZER NUTRIENT              | 90 LB./ACRE         | AGGREGATE SHOULDERS, TYPE B                  | 2.1 TON/CU. YD.     |
| POTASSIUM FERTILIZER NUTRIENT               | 90 LB./ACRE         | HOT-MIX ASPHALT SHOULDERS                    | 0.056 TON/SQ. YD./" |
| TEMPORARY EROSION CONTROL SEEDING           | 129 LB./ACRE        | REINFORCEMENT BARS                           | N/A                 |
| LIME                                        | 0.02364 TON/SQ. YD. |                                              |                     |
| SUB-BASE GRANULAR MATERIAL, TYPE B          | 2.1 TON/CU. YD.     |                                              |                     |
| AGGREGATE FOR TEMPORARY ACCESS              | N/A                 |                                              |                     |
| BITUMINOUS MATERIALS (PRIME COAT)           | 0.375 GAL./SQ. YD.  |                                              |                     |
| AGGREGATE (PRIME COAT)                      | 0.0025 TON/SQ. YD.  |                                              |                     |
| LEVELING BINDER (MACHINE METHOD), N70       | 0.056 TON/SQ. YD./" |                                              |                     |
| HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70 | 0.056 TON/SQ. YD./" |                                              |                     |

THOUVENOT,  
WADE &  
MOERCHEN, INC.  
ENGINEERS ♦ SURVEYORS ♦ PLANNERS



☒ **CORPORATE OFFICE**  
4940 OLD COLLINSVILLE RD.  
SWANSEA, ILLINOIS 62226  
TEL (618) 624-4488  
FAX (618) 624-6688  
corp@twm-inc.com

☐ **EDWARDSVILLE OFFICE**  
1015B CENTURY DRIVE  
EDWARDSVILLE, ILLINOIS 62025  
TEL (618) 656-4040  
FAX (618) 656-4343  
edwardsville@twm-inc.com

☐ **ST. LOUIS OFFICE**  
1001 CRAIG ROAD, SUITE 260  
ST. LOUIS, MISSOURI 63146  
TEL (314) 236-5052  
FAX (314) 872-2194  
stlouis@twm-inc.com

☐ **WATERLOO OFFICE**  
113 SOUTH MAIN STREET  
WATERLOO, ILLINOIS 62298  
TEL (618) 939-5050  
FAX (618) 939-3938  
waterloo@twm-inc.com

| PROFESSIONAL REGISTRATIONS          | LICENSE NO. |
|-------------------------------------|-------------|
| ILLINOIS PROFESSIONAL DESIGN FIRM   | 184-001220  |
| PROFESSIONAL ENGINEERING CORP.      | 62-035370   |
| PROFESSIONAL STRUCTURAL ENGR. CORP. | 61-005202   |
| ILLINOIS PROF. LAND SURVEYING CORP. | 048-000029  |
| MISSOURI PROFESSIONAL ENGR. CORP.   | NC 001528   |
| MISSOURI LAND SURVEYING CORP.       | NC 000346   |

SEAL

FINAL

Signature: \_\_\_\_\_  
Signature Date: \_\_\_\_\_  
Expiration Date: \_\_\_\_\_

**STATEMENT OF RESPONSIBILITY**  
I hereby confirm that the document herein to be authenticated by my seal is restricted to this sheet, and I hereby disclaim any responsibility for all other drawings, specifications, estimates, reports or other documents or instruments relating to or intended to be utilized for any other part of the architectural, engineering or survey project.

| TITLE | GENERAL NOTES<br>AND SUMMARY OF QUANTITIES |                                                                                            |
|-------|--------------------------------------------|--------------------------------------------------------------------------------------------|
|       | PROJECT:                                   | BLUFF ROAD (CTY. HWY. 6)<br>BRIDGE REPLACEMENT<br>OVER FOUNTAIN CREEK<br>MONROE COUNTY, IL |

| REV. | DATE | DESCRIPTION |
|------|------|-------------|
| △    |      |             |
| △    |      |             |
| △    |      |             |

|                                                        |                                             |
|--------------------------------------------------------|---------------------------------------------|
| DRAWN BY: KBF/JWS                                      | SHEET                                       |
| DESIGNED BY: BJG                                       | 2                                           |
| CHECKED BY: SJK                                        | OF 67 SHEETS                                |
| APPROVED BY: SJK                                       | PROJECT DESCRIPTION                         |
| PROJECT NUMBER: T16-040125                             | BLUFF RD. BRIDGE<br>OVER FOUNTAIN CRK.      |
| <input type="checkbox"/> ISSUED FOR REVIEW             | <input type="checkbox"/> ISSUED FOR BIDDING |
| <input checked="" type="checkbox"/> ISSUED FOR CONSTR. | <input type="checkbox"/> RECORD DRAWING     |



| FIS ROUTE                   | DOT SECTION    | COUNTY   |
|-----------------------------|----------------|----------|
| 1857                        | 04-00071-00-BR | MONROE   |
| FEDERAL AID PROJECT         |                | ILLINOIS |
| DOT JOB NO. BR-RS-1857(121) |                |          |
| DOT CONTRACT NO. 97323      |                |          |

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WADE &  
MOERCHEN, INC.  
ENGINEERS ♦ SURVEYORS ♦ PLANNERS



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| PROFESSIONAL REGISTRATIONS          | LICENSE NO. |
|-------------------------------------|-------------|
| ILLINOIS PROFESSIONAL DESIGN FIRM   | 184-001220  |
| PROFESSIONAL ENGINEERING CORP.      | 62-035370   |
| PROFESSIONAL STRUCTURAL ENGR. CORP. | 81-005202   |
| ILLINOIS PROF. LAND SURVEYING CORP. | 048-000029  |
| MISSOURI PROFESSIONAL ENGR. CORP.   | NC 001528   |
| MISSOURI LAND SURVEYING CORP.       | NC 000346   |

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Signature Date: \_\_\_\_\_  
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engineering or survey project.

EXISTING TYPICAL CROSS SECTIONS

BLUFF ROAD (CTY. HWY. 6)

PROJECT:

BLUFF ROAD (CTY. HWY. 6)  
BRIDGE REPLACEMENT  
OVER FOUNTAIN CREEK  
MONROE COUNTY, IL

| REV. | DATE | DESCRIPTION |
|------|------|-------------|
| △    |      |             |
| △    |      |             |
| △    |      |             |

DRAWN BY: KBF/JWS  
DESIGNED BY: BJG  
CHECKED BY: SJK  
APPROVED BY: SJK

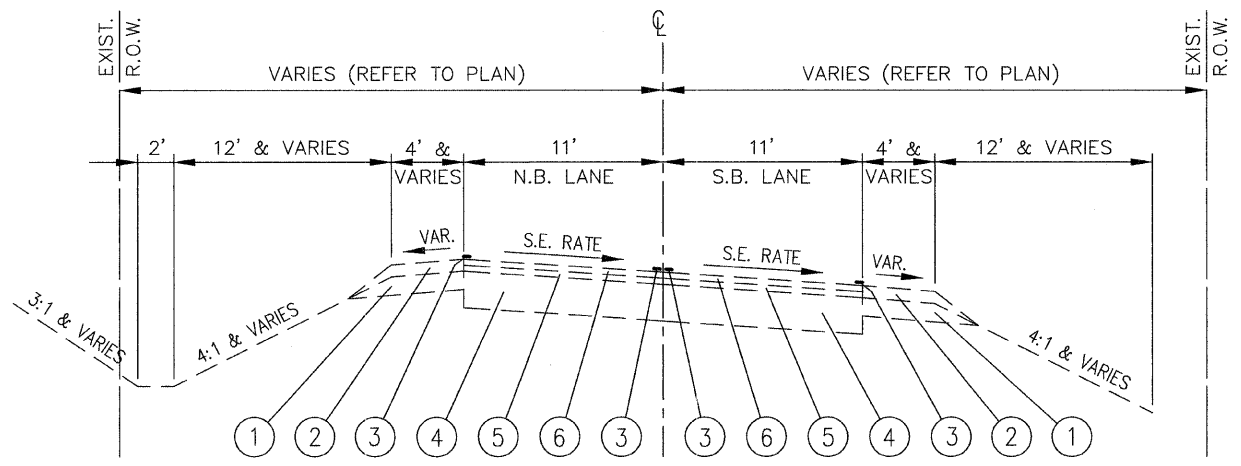
SHEET  
**3**  
OF 67 SHEETS

PROJECT DESCRIPTION  
BLUFF RD. BRIDGE  
OVER FOUNTAIN CRK.  
PROJECT NUMBER: 116-040125

☐ ISSUED FOR REVIEW  
☒ ISSUED FOR CONSTR.  
☐ ISSUED FOR BIDDING  
☐ RECORD DRAWING

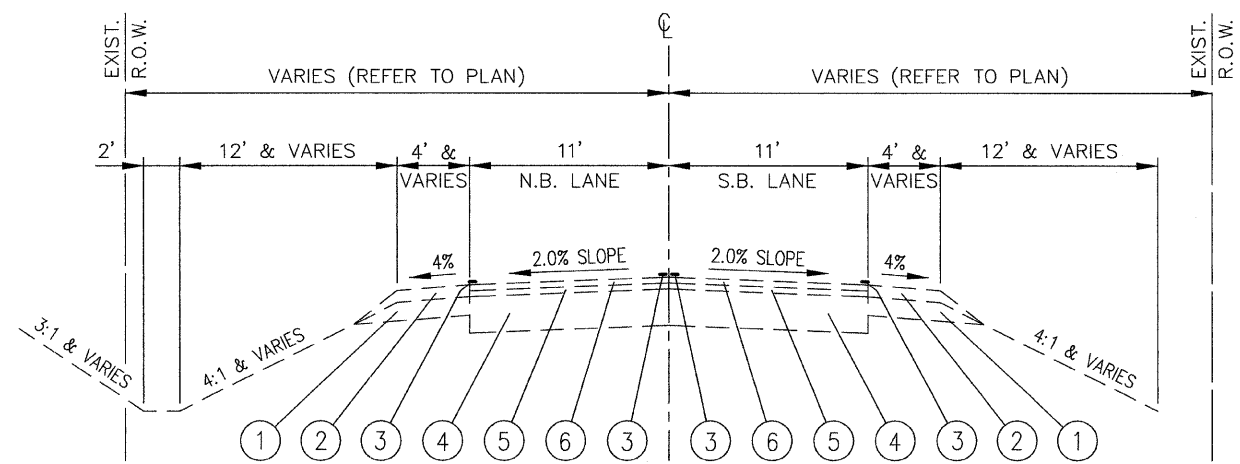
# LEGEND

- ① EXISTING AGGREGATE SHOULDER, TYPE B, 6"
- ② EXISTING AGGREGATE SHOULDER, TYPE B, 4"
- ③ EXISTING PAVEMENT MARKING
- ④ EXISTING AGGREGATE BASE COURSE, TYPE A, 12"  
W/ EXISTING BITUMINOUS SURFACE TREATMENT, CLASS A3
- ⑤ EXISTING LEVELING BINDER (MACHINE METHOD),  
N70, 2"
- ⑥ EXISTING HOT-MIX ASPHALT SURFACE COURSE,  
MIX D, N70, 2"
- ⑦ EXISTING AGGREGATE BASE COURSE, TYPE A, 8"  
W/ EXISTING BITUMINOUS SURFACE TREATMENT, CLASS A3



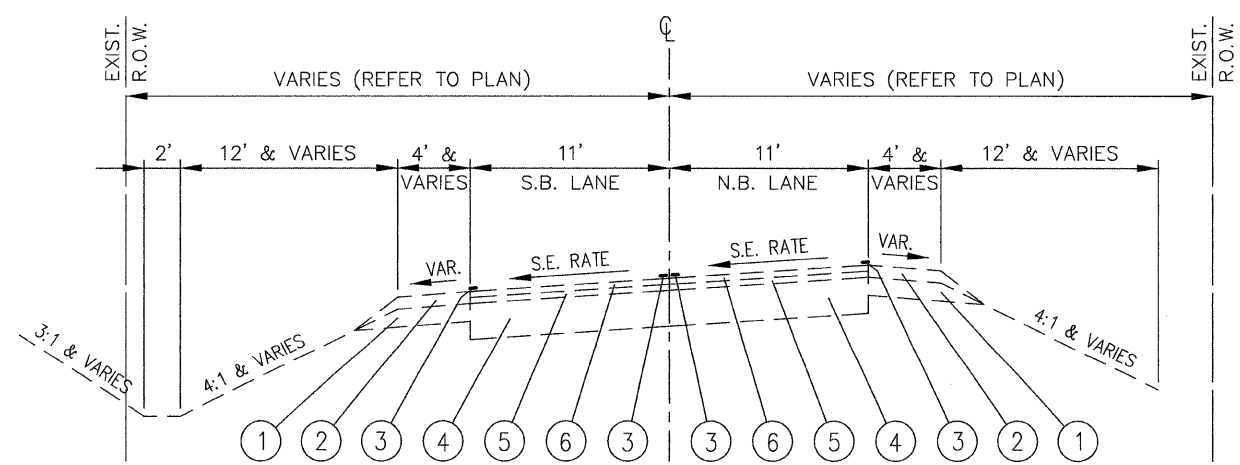
## COUNTY HIGHWAY 6 (BLUFF ROAD) EXISTING TYPICAL SECTION

STA. 296+77.36 TO STA. 301+08.70  
STA. 307+75.00 TO STA. 314+47.40  
STA. 314+50.00 TO STA. 320+91.84



## COUNTY HIGHWAY 6 (BLUFF ROAD) EXISTING TYPICAL SECTION

STA. 285+86.34 TO STA. 296+77.36  
STA. 306+38.22 TO STA. 307+75.00  
STA. 314+47.40 TO STA. 314+50.00  
STA. 320+91.84 TO STA. 320+93.68  
STA. 324+93.35 TO STA. 325+04.68



## COUNTY HIGHWAY 6 (BLUFF ROAD) EXISTING TYPICAL SECTION

STA. 301+08.70 TO STA. 306+38.22  
STA. 320+93.68 TO STA. 324+93.35

| FAS ROUTE           | IDOT SECTION    | COUNTY |
|---------------------|-----------------|--------|
| 1857                | 04-00071-00-BR  | MONROE |
| FEDERAL AID PROJECT | ILLINOIS        |        |
| IDOT JOB NO.        | BR-RS-1857(121) |        |
| IDOT CONTRACT NO.   | 97323           |        |

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| PROFESSIONAL REGISTRATIONS          | LICENSE NO. |
|-------------------------------------|-------------|
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| PROFESSIONAL STRUCTURAL ENGR. CORP. | 81-005202   |
| ILLINOIS PROF. LAND SURVEYING CORP. | 048-000029  |
| MISSOURI PROFESSIONAL ENGR. CORP.   | NC 001528   |
| MISSOURI LAND SURVEYING CORP.       | NC 000346   |

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Expiration Date: \_\_\_\_\_

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TITLE

EXISTING TYPICAL  
CROSS SECTIONS  
HANOVER ROAD AND 'B' ROAD

PROJECT

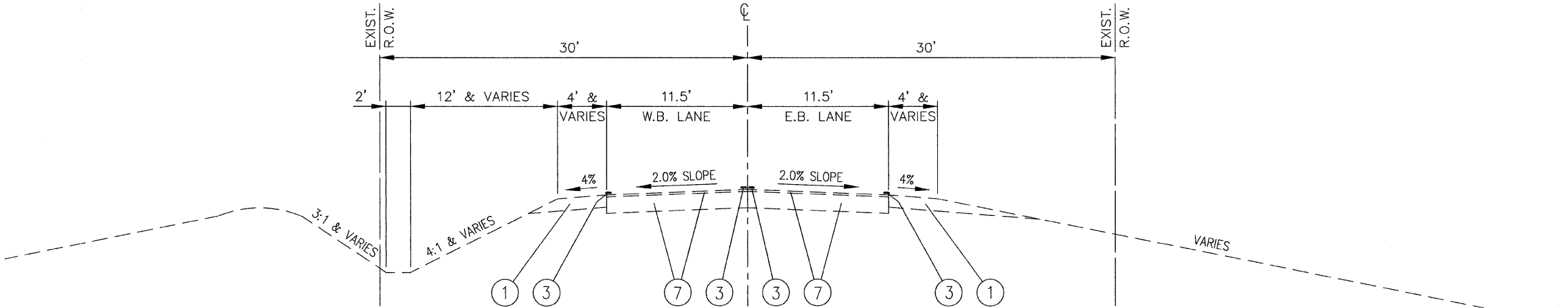
BLUFF ROAD (CTY. HWY. 6)  
BRIDGE REPLACEMENT  
OVER FOUNTAIN CREEK  
MONROE COUNTY, IL

| REV. | DATE | DESCRIPTION |
|------|------|-------------|
| △    |      |             |
| △    |      |             |
| △    |      |             |

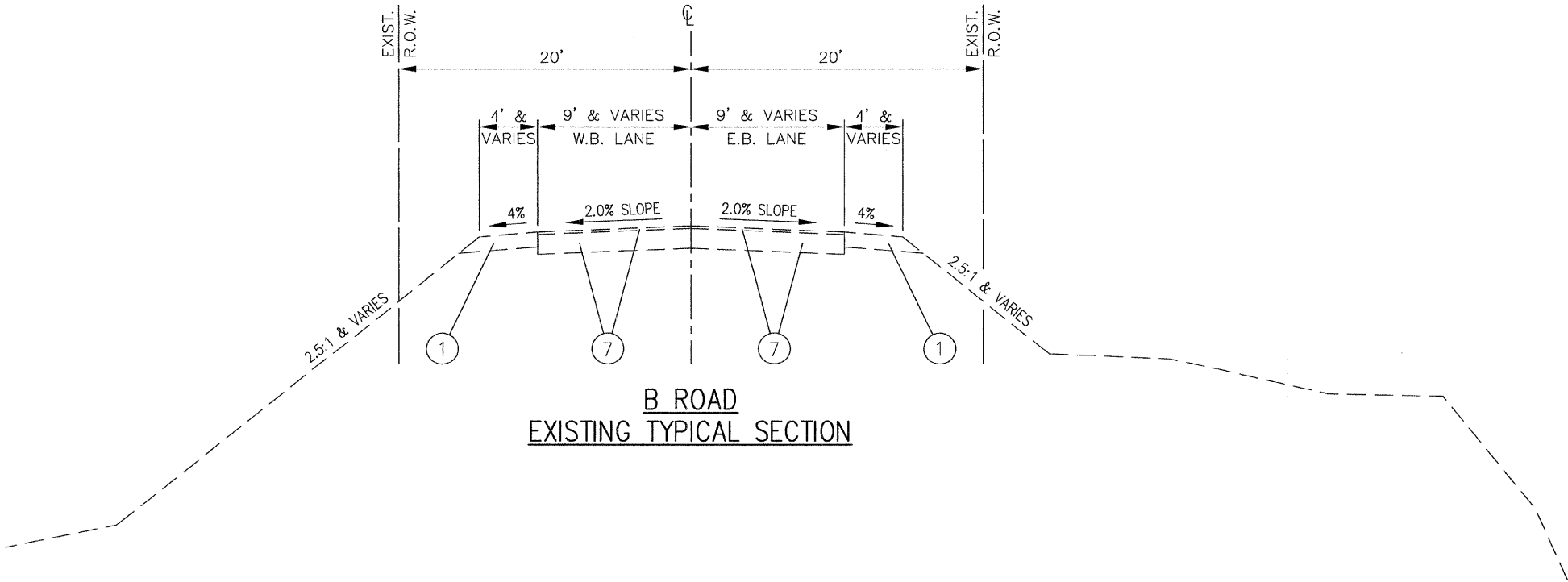
|                                                        |            |                                             |                                        |
|--------------------------------------------------------|------------|---------------------------------------------|----------------------------------------|
| DRAWN BY:                                              | KBF/JWS    | SHEET                                       | 4                                      |
| DESIGNED BY:                                           | BJG        | OF 67 SHEETS                                |                                        |
| CHECKED BY:                                            | SJK        |                                             |                                        |
| APPROVED BY:                                           | SJK        | PROJECT DESCRIPTION                         | BLUFF RD. BRIDGE<br>OVER FOUNTAIN CRK. |
| PROJECT NUMBER                                         | 116-040125 |                                             |                                        |
| <input type="checkbox"/> ISSUED FOR REVIEW             |            | <input type="checkbox"/> ISSUED FOR BIDDING |                                        |
| <input checked="" type="checkbox"/> ISSUED FOR CONSTR. |            | <input type="checkbox"/> RECORD DRAWING     |                                        |

### LEGEND

- |                                                                                                     |                                                                                                    |
|-----------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|
| ① EXISTING AGGREGATE SHOULDER, TYPE B, 6"                                                           | ⑥ EXISTING HOT-MIX ASPHALT SURFACE COURSE,<br>MIX D, N70, 2"                                       |
| ② EXISTING AGGREGATE SHOULDER, TYPE B, 4"                                                           | ⑦ EXISTING AGGREGATE BASE COURSE, TYPE A, 8"<br>W/ EXISTING BITUMINOUS SURFACE TREATMENT, CLASS A3 |
| ③ EXISTING PAVEMENT MARKING                                                                         |                                                                                                    |
| ④ EXISTING AGGREGATE BASE COURSE, TYPE A, 12"<br>W/ EXISTING BITUMINOUS SURFACE TREATMENT, CLASS A3 |                                                                                                    |
| ⑤ EXISTING LEVELING BINDER (MACHINE METHOD),<br>N70, 2"                                             |                                                                                                    |



HANOVER ROAD  
EXISTING TYPICAL SECTION



B ROAD  
EXISTING TYPICAL SECTION

|                     |                 |          |
|---------------------|-----------------|----------|
| FIS ROUTE           | IDOT SECTION    | COUNTY   |
| 1857                | 04-00071-00-BR  | MONROE   |
| FEDERAL AID PROJECT |                 | ILLINOIS |
| IDOT JOB NO.        | BR-RS-1857(121) |          |
| IDOT CONTRACT NO.   | 97323           |          |

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| ILLINOIS PROFESSIONAL DESIGN FIRM   | 184-001220  |
| PROFESSIONAL ENGINEERING CORP.      | 62-035370   |
| PROFESSIONAL STRUCTURAL ENGR. CORP. | 81-005202   |
| ILLINOIS PROF. LAND SURVEYING CORP. | 048-000029  |
| MISSOURI PROFESSIONAL ENGR. CORP.   | NC 001528   |
| MISSOURI LAND SURVEYING CORP.       | NC 000346   |

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Expiration Date: \_\_\_\_\_

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**PROPOSED TYPICAL CROSS SECTIONS**  
**BLUFF ROAD (CTY. HWY. 6)**  
**BRIDGE REPLACEMENT OVER FOUNTAIN CREEK**  
**MONROE COUNTY, IL**

TITLE PROJECT

| REV | DATE | DESCRIPTION |
|-----|------|-------------|
| △   |      |             |
| △   |      |             |
| △   |      |             |

DRAWN BY: KBF/JWS  
DESIGNED BY: BJG  
CHECKED BY: SJK  
APPROVED BY: SJK

SHEET **5** OF 67 SHEETS

PROJECT DESCRIPTION: BLUFF RD. BRIDGE OVER FOUNTAIN CRK.  
PROJECT NUMBER: 16-040125

☐ ISSUED FOR REVIEW ☐ ISSUED FOR BIDDING  
☒ ISSUED FOR CONSTR. ☐ RECORD DRAWING

## LEGEND

- EXISTING AGGREGATE SHOULDER, TYPE B, 6"
- EXISTING AGGREGATE SHOULDER, TYPE B, 4"
- EXISTING PAVEMENT MARKING
- EXISTING AGGREGATE BASE COURSE, TYPE A, 12" W/ EXISTING BITUMINOUS SURFACE TREATMENT, CLASS A3
- EXISTING LEVELING BINDER (MACHINE METHOD), N70, 2"
- EXISTING HOT-MIX ASPHALT SURFACE COURSE, MIX D, N70, 2"
- EXISTING AGGREGATE BASE COURSE, TYPE A, 8" W/ EXISTING BITUMINOUS SURFACE TREATMENT, CLASS A3
- PROPOSED AGGREGATE SHOULDER, TYPE B, 6"
- PROPOSED PAVEMENT MARKING
- PROPOSED LIME MODIFIED SOIL, 12"
- PROPOSED SUB-BASE GRANULAR MATERIAL, TYPE B, CA-4, 5"
- PROPOSED AGGREGATE BASE COURSE, TYPE A, CA-6, 8"
- PROPOSED HOT-MIX ASPHALT BINDER COURSE, IL 19.0, N70, 3"
- PROPOSED HOT-MIX ASPHALT SURFACE COURSE, MIX D, N70, 2"
- PROPOSED LEVELING BINDER (MACHINE METHOD), N70, VARIABLE DEPTH
- PROPOSED GUARDRAIL, TYPE A (REFER TO INTERSECTION DETAILS)
- PROPOSED SUB-BASE GRANULAR MATERIAL, TYPE B, VARIABLE DEPTH
- PROPOSED MILLING OF EXISTING SURFACE (REFER TO PLAN FOR AREA, LOCATION AND DEPTH INFORMATION)

**STRUCTURAL DESIGN TRAFFIC:** YEAR 2017  
PV= 3,117 SU= 98 MU= 66

**ROAD/STREET CLASSIFICATION:** CLASS II

**PERCENT OF STRUCTURAL DESIGN TRAFFIC IN DESIGN LANE:**  
P= 50% S= 50% M= 50%

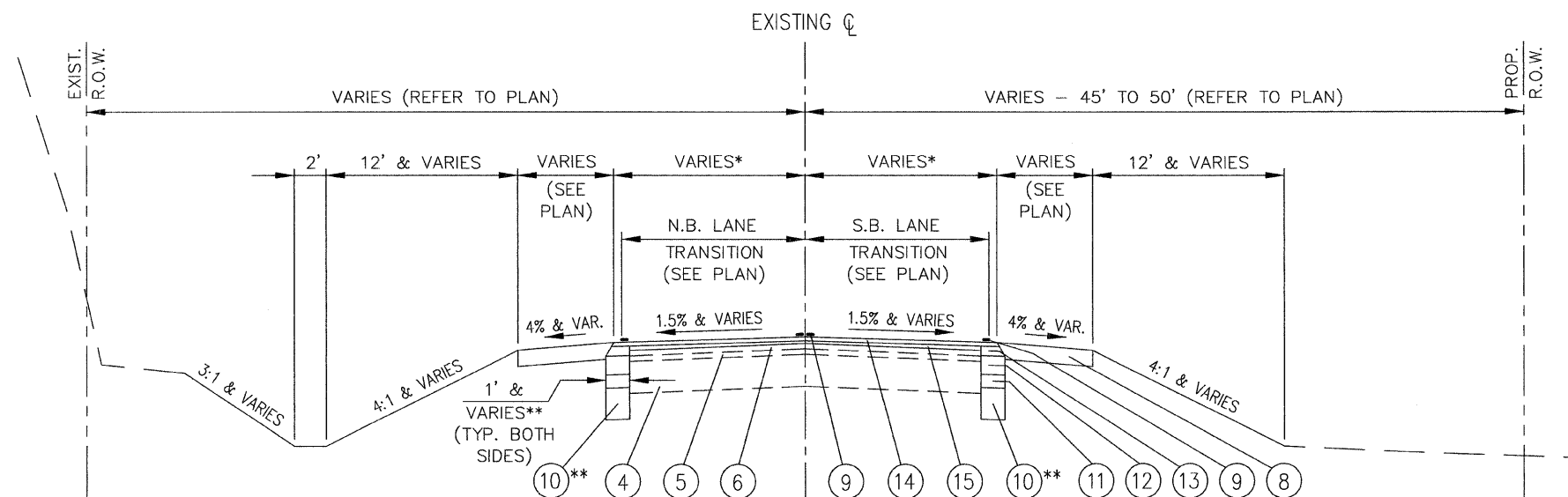
**TRAFFIC FACTOR:** Actual TF= 0.37 AC Type= 20  
Minimum TF= NO MINIMUM

**PG GRADE:** Binder= PG64-22 Surface= PG64-22

**SUBGRADE SUPPORT RATING:**  
SSR= POOR (Sta. 285+86.34 to 325+06.21)

## HOT-MIX ASPHALT MIXTURE REQUIREMENTS

| MIXTURE USE                         | SURFACE        | LEVELING BINDER | BINDER         | SHOULDERS      |
|-------------------------------------|----------------|-----------------|----------------|----------------|
| AC/PG                               | PG 64-22       | PG 64-22        | PG 64-22       | PG 58-22       |
| RAP % (MAX.)                        | 10%            | 15%             | 15%            | 30%            |
| DESIGN AIR Voids                    | 4.0% @ Ndes=70 | 4.0% @ Ndes=70  | 4.0% @ Ndes=70 | 2.0% @ Ndes=30 |
| MIX COMPOSITION (GRADATION MIXTURE) |                |                 | IL 19.0        |                |
| FRICTION AGG.                       | MIXTURE D      | MIXTURE C       | MIXTURE B      | BIT. AGG. MIX. |

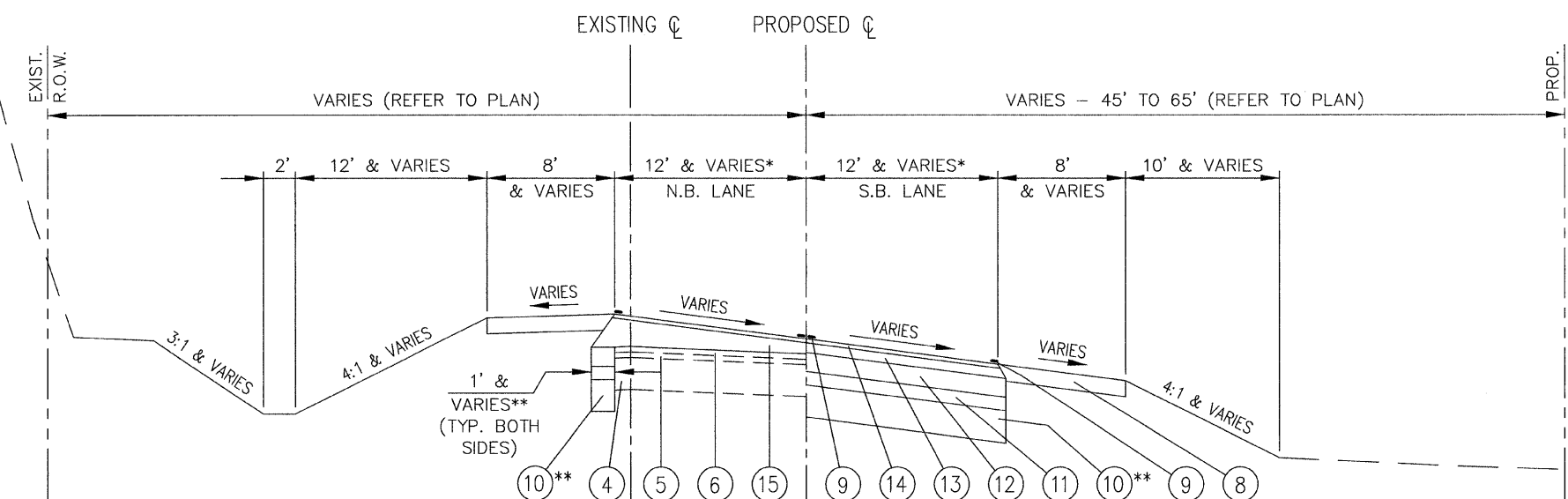


**\*WIDTH SUMMARY:**  
11' (STA. 285+86.34)  
12' (STA. 287+36.24 TO STA. 324+50.01)  
11' (STA. 325+06.21)

## COUNTY HIGHWAY 6 (BLUFF ROAD) PROPOSED TYPICAL SECTION

STA. 285+86.34 TO STA. 286+19.26  
STA. 324+09.76 TO STA. 325+06.21

**\*\* REFER TO GENERAL NOTES FOR INFORMATION REGARDING AGGREGATE SUBSTITUTION FOR WIDENING WIDTHS < 6 FEET (WIDTH OF WIDENING DEPICTED ON CROSS SECTIONS).**



**\*WIDTH SUMMARY:**  
11' (STA. 285+86.34)  
12' (STA. 287+36.24 TO STA. 324+50.01)  
11' (STA. 325+06.21)

## COUNTY HIGHWAY 6 (BLUFF ROAD) PROPOSED TYPICAL SECTION - CURVE #1

STA. 286+19.26 TO STA. 294+38.15

**\*\* REFER TO GENERAL NOTES FOR INFORMATION REGARDING AGGREGATE SUBSTITUTION FOR WIDENING WIDTHS < 6 FEET (WIDTH OF WIDENING DEPICTED ON CROSS SECTIONS).**

| SUPERELEVATION ATTAINMENT - PROPOSED BLUFF ROAD CURVE #1 |                                                 |                                      |                                                   |                                                       |
|----------------------------------------------------------|-------------------------------------------------|--------------------------------------|---------------------------------------------------|-------------------------------------------------------|
| LEFT SIDE                                                |                                                 | PROPOSED STATION (LOOKING UPSTATION) | RIGHT SIDE                                        |                                                       |
| LEFT SHOULDER CROSS SLOPE (% FROM C.L. TO THE LEFT)      | LEFT LANE CROSS SLOPE (% FROM C.L. TO THE LEFT) |                                      | RIGHT LANE CROSS SLOPE (% FROM C.L. TO THE RIGHT) | RIGHT SHOULDER CROSS SLOPE (% FROM C.L. TO THE RIGHT) |
| -4.00%                                                   | 0.00%                                           | 294+38.15                            | 0.00%                                             | -4.00%                                                |
| -1.50%                                                   | 6.50%                                           | 288+32.38 TO 291+44.68               | -6.50%                                            | -6.50%                                                |
| -4.00%                                                   | -1.50%                                          | 286+19.26 TO 286+99.18               | -1.50%                                            | -4.00%                                                |

| FIS ROUTE                    | IDOT SECTION   | COUNTY |
|------------------------------|----------------|--------|
| 1857                         | 04-00071-00-BR | MONROE |
| FEDERAL AID PROJECT          |                |        |
| IDOT JOB NO. BR-RS-1857(121) |                |        |
| IDOT CONTRACT NO. 97323      |                |        |

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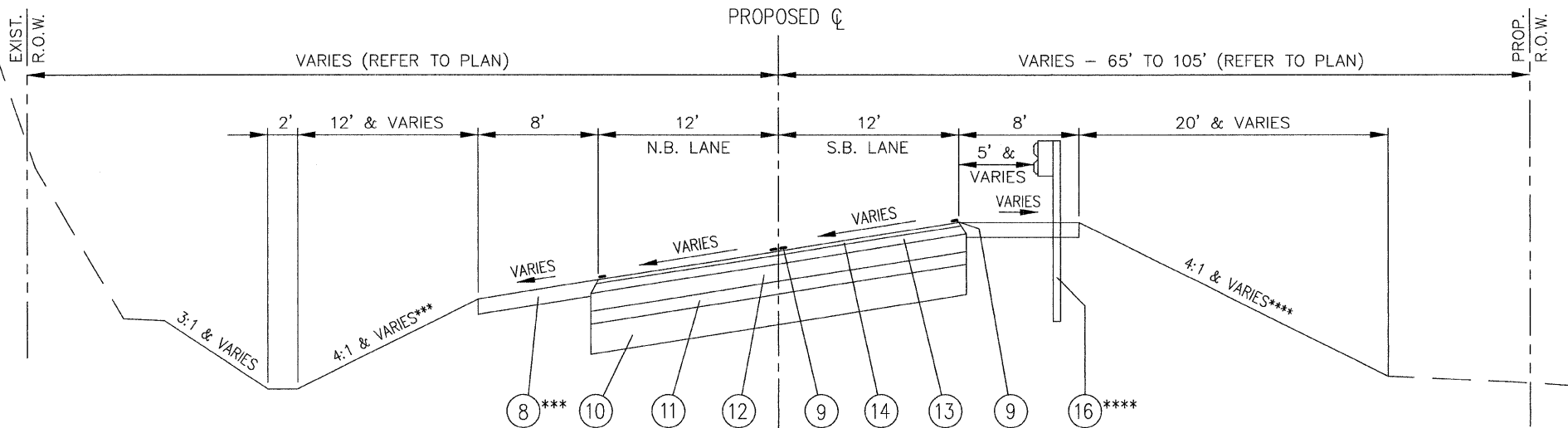
**PROPOSED TYPICAL CROSS SECTIONS**  
**BLUFF ROAD (CTY. HWY. 6)**  
**BRIDGE REPLACEMENT**  
**OVER FOUNTAIN CREEK**  
**MONROE COUNTY, IL**

| REV. | DATE | DESCRIPTION |
|------|------|-------------|
| △    |      |             |
| △    |      |             |
| △    |      |             |

|                                                        |                                             |
|--------------------------------------------------------|---------------------------------------------|
| DRAWN BY: KBF/JWS                                      | SHEET                                       |
| DESIGNED BY: BJC                                       | <b>6</b>                                    |
| CHECKED BY: SJK                                        | OF 67 SHEETS                                |
| APPROVED BY: SJK                                       | PROJECT DESCRIPTION                         |
| PROJECT NUMBER: 116-040125                             | BLUFF RD. BRIDGE OVER FOUNTAIN CRK.         |
| <input type="checkbox"/> ISSUED FOR REVIEW             | <input type="checkbox"/> ISSUED FOR BIDDING |
| <input checked="" type="checkbox"/> ISSUED FOR CONSTR. | <input type="checkbox"/> RECORD DRAWING     |

## LEGEND

- EXISTING AGGREGATE SHOULDER, TYPE B, 6"
- EXISTING AGGREGATE SHOULDER, TYPE B, 4"
- EXISTING PAVEMENT MARKING
- EXISTING AGGREGATE BASE COURSE, TYPE A, 12"  
W/ EXISTING BITUMINOUS SURFACE TREATMENT, CLASS A3
- EXISTING LEVELING BINDER (MACHINE METHOD), N70, 2"
- EXISTING HOT-MIX ASPHALT SURFACE COURSE, MIX D, N70, 2"
- EXISTING AGGREGATE BASE COURSE, TYPE A, 8"  
W/ EXISTING BITUMINOUS SURFACE TREATMENT, CLASS A3
- PROPOSED AGGREGATE SHOULDER, TYPE B, 6"
- PROPOSED PAVEMENT MARKING
- PROPOSED LIME MODIFIED SOIL, 12"
- PROPOSED SUB-BASE GRANULAR MATERIAL, TYPE B, CA-4, 5"
- PROPOSED AGGREGATE BASE COURSE, TYPE A, CA-6, 8"
- PROPOSED HOT-MIX ASPHALT BINDER COURSE, IL 19.0, N70, 3"
- PROPOSED HOT-MIX ASPHALT SURFACE COURSE, MIX D, N70, 2"
- PROPOSED LEVELING BINDER (MACHINE METHOD), N70, VARIABLE DEPTH
- PROPOSED GUARDRAIL, TYPE A  
(REFER TO INTERSECTION DETAILS)
- PROPOSED SUB-BASE GRANULAR MATERIAL, TYPE B, VARIABLE DEPTH
- PROPOSED MILLING OF EXISTING SURFACE  
(REFER TO PLAN FOR AREA, LOCATION AND DEPTH INFORMATION)

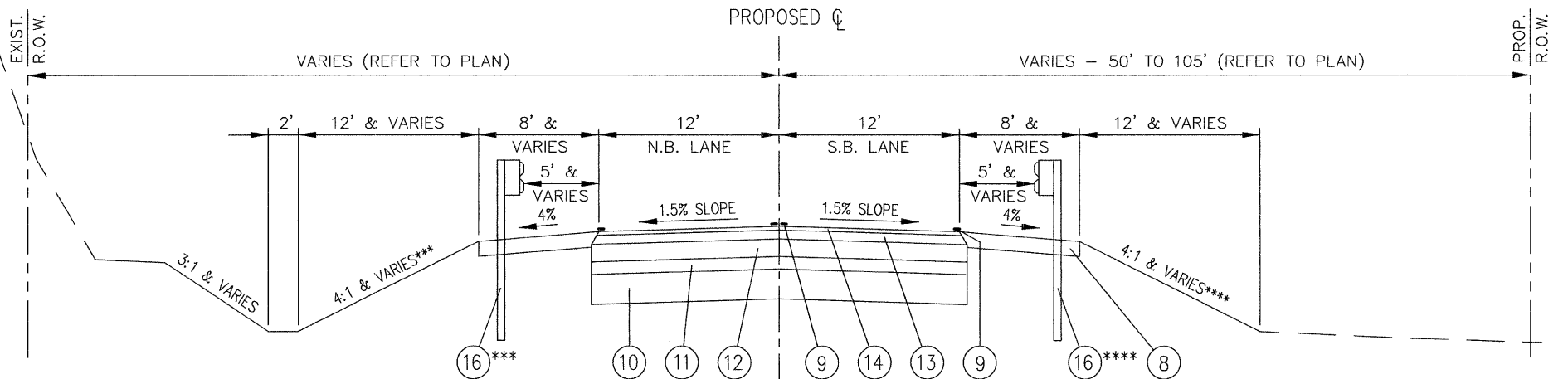


\*\*\* FORESLOPE SUMMARY (THIS SECTION - LEFT SIDE):  
4:1 (ENTIRE LENGTH OF THIS SECTION)  
(REFER TO PLANS FOR LOCATION  
OF 5' PAVED SHOULDER)

## COUNTY HIGHWAY 6 (BLUFF ROAD) PROPOSED TYPICAL SECTION - CURVE #2 STA. 294+38.15 TO STA. 306+77.93

\*\*\*\* FORESLOPE SUMMARY (THIS SECTION - RIGHT SIDE):  
4:1 (STA. 303+60.24)  
2:1 (STA. 304+09.42 TO STA. 305+45.72)  
4:1 (STA. 305+95.56)  
(REFER TO PLANS FOR GUARDRAIL &  
5' PAVED SHOULDER LOCATIONS)

| SUPERELEVATION ATTAINMENT - PROPOSED BLUFF ROAD CURVE #2  |                                                       |                                         |                                                         |                                                             |
|-----------------------------------------------------------|-------------------------------------------------------|-----------------------------------------|---------------------------------------------------------|-------------------------------------------------------------|
| LEFT SIDE                                                 |                                                       | PROPOSED STATION<br>(LOOKING UPSTATION) | RIGHT SIDE                                              |                                                             |
| LEFT SHOULDER<br>CROSS SLOPE<br>(% FROM C.L. TO THE LEFT) | LEFT LANE<br>CROSS SLOPE<br>(% FROM C.L. TO THE LEFT) |                                         | RIGHT LANE<br>CROSS SLOPE<br>(% FROM C.L. TO THE RIGHT) | RIGHT SHOULDER<br>CROSS SLOPE<br>(% FROM C.L. TO THE RIGHT) |
| -4.00%                                                    | -1.50%                                                | 305+98.01   306+77.93                   | -1.50%                                                  | -4.00%                                                      |
| -8.00%                                                    | -8.00%                                                | 297+11.87 TO 304+24.85                  | 8.00%                                                   | 0.00%                                                       |
| -4.00%                                                    | 0.00%                                                 | 294+38.15                               | 0.00%                                                   | -4.00%                                                      |



\*\*\* FORESLOPE SUMMARY (THIS SECTION - LEFT SIDE):  
2:1 (STA. 308+37.33 TO STA. 308+42.05)  
(REFER TO PLANS FOR GUARDRAIL &  
5' PAVED SHOULDER LOCATIONS)

## COUNTY HIGHWAY 6 (BLUFF ROAD) PROPOSED TYPICAL SECTION STA. 306+77.93 TO STA. 306+95.44 BRIDGE (STA. 306+95.44 TO STA. 308+37.33) STA. 308+37.33 TO STA. 308+42.05 STA. 320+50.25 TO STA. 322+22.36

\*\*\*\* FORESLOPE SUMMARY (THIS SECTION - RIGHT SIDE):  
4:1 (STA. 303+60.24)  
2:1 (STA. 304+09.42 TO STA. 305+45.72)  
4:1 (STA. 305+95.56)  
(REFER TO PLANS FOR GUARDRAIL &  
5' PAVED SHOULDER LOCATIONS)



| FAS ROUTE                    | IDOT SECTION   | COUNTY |
|------------------------------|----------------|--------|
| 1857                         | 04-00071-00-BR | MONROE |
| FEDERAL AID PROJECT          |                |        |
| ILLINOIS                     |                |        |
| IDOT JOB NO. BR-RS-1857(121) |                |        |
| IDOT CONTRACT NO. 97323      |                |        |

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MOERCHEN, INC.  
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waterloo@twm-inc.com

| PROFESSIONAL REGISTRATIONS          | LICENSE NO. |
|-------------------------------------|-------------|
| ILLINOIS PROFESSIONAL DESIGN FIRM   | 184-001220  |
| PROFESSIONAL ENGINEERING CORP.      | 62-035370   |
| PROFESSIONAL STRUCTURAL ENGR. CORP. | 81-005202   |
| ILLINOIS PROF. LAND SURVEYING CORP. | 048-000029  |
| MISSOURI PROFESSIONAL ENGR. CORP.   | NC 001528   |
| MISSOURI LAND SURVEYING CORP.       | NC 000346   |

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Date: \_\_\_\_\_  
Expiration Date: \_\_\_\_\_

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**PROPOSED TYPICAL CROSS SECTIONS**  
**BLUFF ROAD (CTY. HWY. 6)**

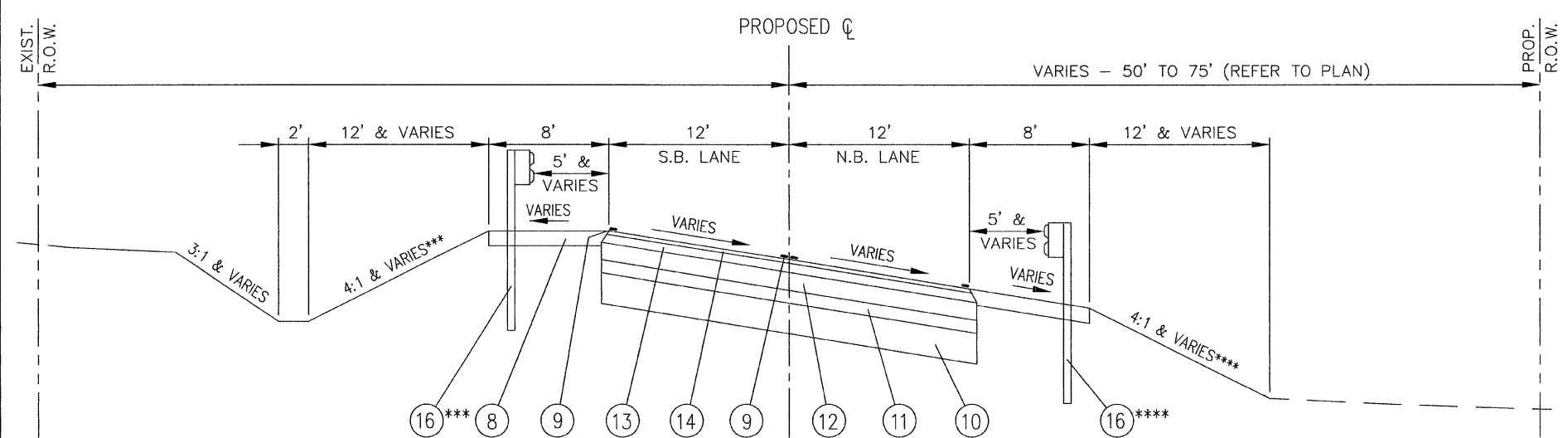
**BLUFF ROAD (CTY. HWY. 6)**  
**BRIDGE REPLACEMENT**  
**OVER FOUNTAIN CREEK**  
**MONROE COUNTY, IL**

| REV. | DATE | DESCRIPTION |
|------|------|-------------|
| △    |      |             |
| △    |      |             |
| △    |      |             |

|                                                        |                                                          |
|--------------------------------------------------------|----------------------------------------------------------|
| DRAWN BY: KBF/JWS                                      | SHEET 7                                                  |
| DESIGNED BY: BJG                                       | OF 67 SHEETS                                             |
| CHECKED BY: SJK                                        |                                                          |
| APPROVED BY: SJK                                       |                                                          |
| PROJECT NUMBER: 116-040125                             | PROJECT DESCRIPTION: BLUFF RD. BRIDGE OVER FOUNTAIN CRK. |
| <input type="checkbox"/> ISSUED FOR REVIEW             | <input type="checkbox"/> ISSUED FOR BIDDING              |
| <input checked="" type="checkbox"/> ISSUED FOR CONSTR. | <input type="checkbox"/> RECORD DRAWING                  |

## LEGEND

- EXISTING AGGREGATE SHOULDER, TYPE B, 6"
- EXISTING AGGREGATE SHOULDER, TYPE B, 4"
- EXISTING PAVEMENT MARKING
- EXISTING AGGREGATE BASE COURSE, TYPE A, 12" W/ EXISTING BITUMINOUS SURFACE TREATMENT, CLASS A3
- EXISTING LEVELING BINDER (MACHINE METHOD), N70, 2"
- EXISTING HOT-MIX ASPHALT SURFACE COURSE, MIX D, N70, 2"
- EXISTING AGGREGATE BASE COURSE, TYPE A, 8" W/ EXISTING BITUMINOUS SURFACE TREATMENT, CLASS A3
- PROPOSED AGGREGATE SHOULDER, TYPE B, 6"
- PROPOSED PAVEMENT MARKING
- PROPOSED LIME MODIFIED SOIL, 12"
- PROPOSED SUB-BASE GRANULAR MATERIAL, TYPE B, CA-4, 5"
- PROPOSED AGGREGATE BASE COURSE, TYPE A, CA-6, 8"
- PROPOSED HOT-MIX ASPHALT BINDER COURSE, IL 19.0, N70, 3"
- PROPOSED HOT-MIX ASPHALT SURFACE COURSE, MIX D, N70, 2"
- PROPOSED LEVELING BINDER (MACHINE METHOD), N70, VARIABLE DEPTH
- PROPOSED GUARDRAIL, TYPE A (REFER TO INTERSECTION DETAILS)
- PROPOSED SUB-BASE GRANULAR MATERIAL, TYPE B, VARIABLE DEPTH
- PROPOSED MILLING OF EXISTING SURFACE (REFER TO PLAN FOR AREA, LOCATION AND DEPTH INFORMATION)

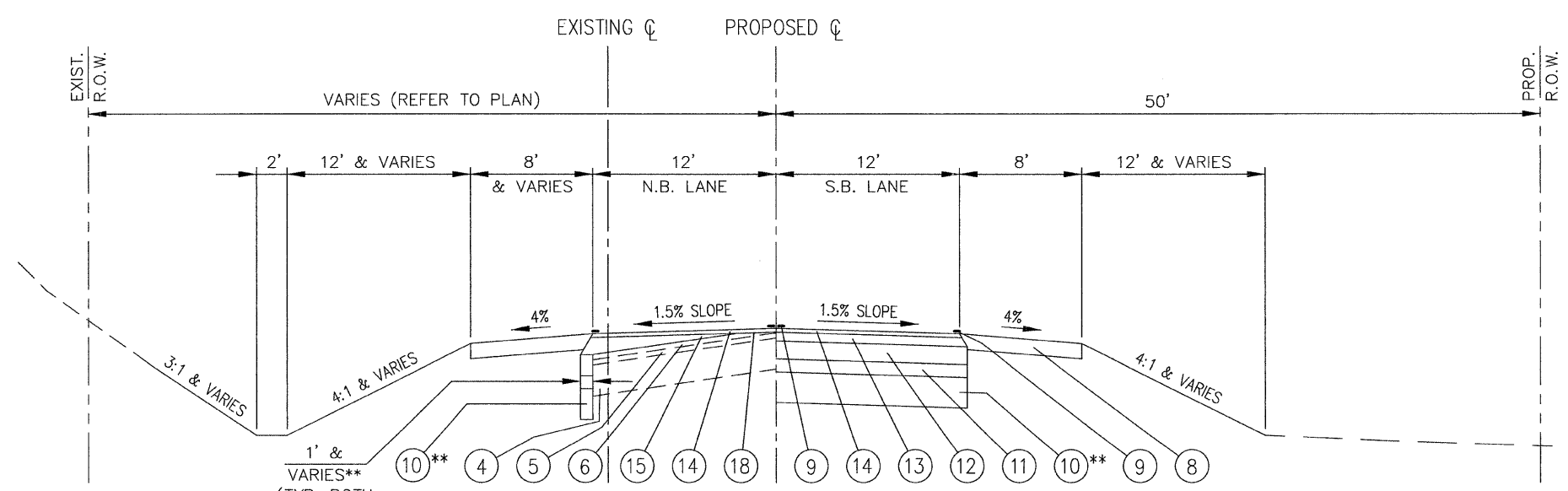


\*\*\* FORESLOPE SUMMARY (THIS SECTION - LEFT SIDE):  
2:1 (STA. 308+42.05 TO STA. 310+52.18)  
4:1 (STA. 311+01.59)  
(REFER TO PLANS FOR GUARDRAIL & 5' PAVED SHOULDER LOCATIONS)

### COUNTY HIGHWAY 6 (BLUFF ROAD) PROPOSED TYPICAL SECTION - CURVE #3 STA. 308+42.05 TO STA. 320+50.25

\*\*\*\* FORESLOPE SUMMARY (THIS SECTION - RIGHT SIDE):  
2:1 (STA. 308+42.05 TO STA. 310+97.68)  
4:1 (STA. 311+48.26)  
(REFER TO PLANS FOR GUARDRAIL & 5' PAVED SHOULDER LOCATIONS)

| SUPERELEVATION ATTAINMENT - PROPOSED BLUFF ROAD CURVE #3 |                                                 |                                      |                                                   |                                                       |
|----------------------------------------------------------|-------------------------------------------------|--------------------------------------|---------------------------------------------------|-------------------------------------------------------|
| LEFT SIDE                                                |                                                 | PROPOSED STATION (LOOKING UPSTATION) | RIGHT SIDE                                        |                                                       |
| LEFT SHOULDER CROSS SLOPE (% FROM C.L. TO THE LEFT)      | LEFT LANE CROSS SLOPE (% FROM C.L. TO THE LEFT) |                                      | RIGHT LANE CROSS SLOPE (% FROM C.L. TO THE RIGHT) | RIGHT SHOULDER CROSS SLOPE (% FROM C.L. TO THE RIGHT) |
| -4.00%                                                   | -1.50%                                          | 320+50.25                            | -1.50%                                            | -4.00%                                                |
| 0.00%                                                    | 8.00%                                           | 310+95.13 TO 317+97.17               | -8.00%                                            | -8.00%                                                |
| -4.00%                                                   | -1.50%                                          | 308+42.05                            | -1.50%                                            | -4.00%                                                |



### COUNTY HIGHWAY 6 (BLUFF ROAD) PROPOSED TYPICAL SECTION STA. 322+22.36 TO STA. 324+09.76

\*\* REFER TO GENERAL NOTES FOR INFORMATION REGARDING AGGREGATE SUBSTITUTION FOR WIDENING WIDTHS < 6 FEET (WIDTH OF WIDENING DEPICTED ON CROSS SECTIONS).

P:\040125\Roadway Plans\DWG\COVER, NOTES, SCHEDULES, TYPICALS, & DETAILS.dwg 10/30/2007 1:42:30 PM CDT

|                     |                 |        |
|---------------------|-----------------|--------|
| FAS ROUTE           | IDOT SECTION    | COUNTY |
| 1857                | 04-00071-00-BR  | MONROE |
| FEDERAL AID PROJECT | ILLINOIS        |        |
| IDOT JOB NO.        | BR-RS-1857(121) |        |
| IDOT CONTRACT NO.   | 97323           |        |

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| PROFESSIONAL STRUCTURAL ENGR. CORP. | 81-005202   |
| ILLINOIS PROF. LAND SURVEYING CORP. | 048-000023  |
| MISSOURI PROFESSIONAL ENGR. CORP.   | NC 001528   |
| MISSOURI LAND SURVEYING CORP.       | NC 000346   |

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**TITLE:**  
PROPOSED TYPICAL CROSS SECTIONS  
HANOVER ROAD AND 'B' ROAD

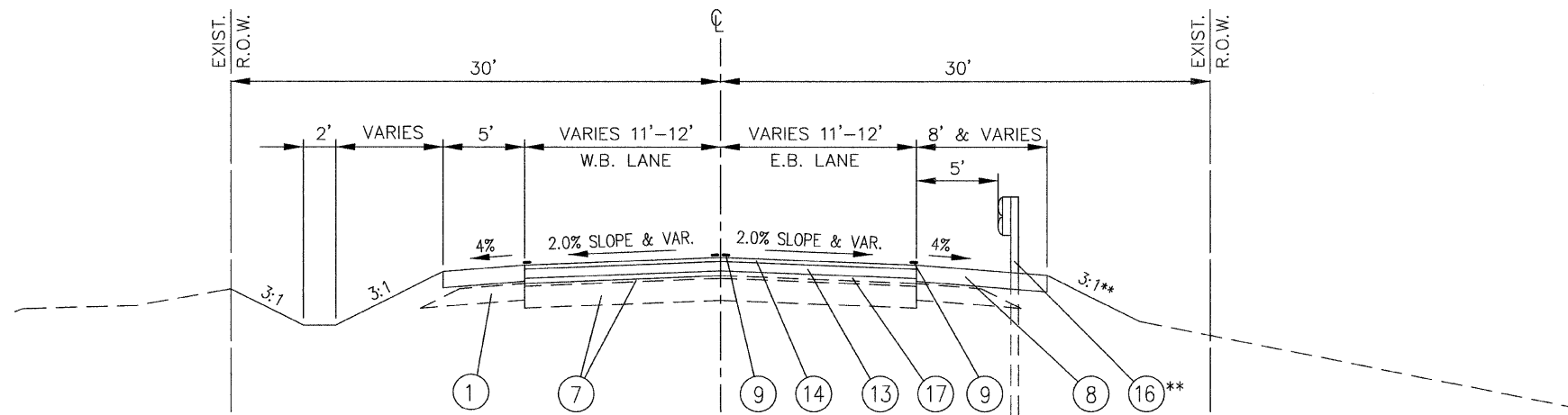
**PROJECT:**  
BLUFF ROAD (CTY. HWY. 6)  
BRIDGE REPLACEMENT  
OVER FOUNTAIN CREEK  
MONROE COUNTY, IL

| REV | DATE | DESCRIPTION |
|-----|------|-------------|
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| △   |      |             |
| △   |      |             |

|                                                        |                                             |
|--------------------------------------------------------|---------------------------------------------|
| DRAWN BY: KBF/JWS                                      | SHEET                                       |
| DESIGNED BY: BJG                                       | <b>8</b>                                    |
| CHECKED BY: SJK                                        | OF 67 SHEETS                                |
| APPROVED BY: SJK                                       | PROJECT DESCRIPTION                         |
| PROJECT NUMBER: T16-040125                             | BLUFF RD. BRIDGE OVER FOUNTAIN CRK.         |
| <input type="checkbox"/> ISSUED FOR REVIEW             | <input type="checkbox"/> ISSUED FOR BIDDING |
| <input checked="" type="checkbox"/> ISSUED FOR CONSTR. | <input type="checkbox"/> RECORD DRAWING     |

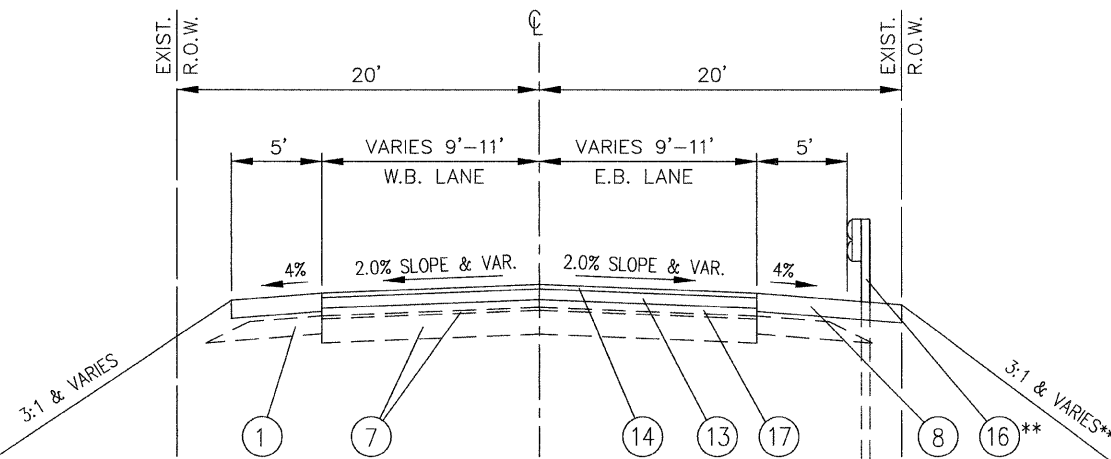
**LEGEND**

- ① EXISTING AGGREGATE SHOULDER, TYPE B, 6"
- ② EXISTING AGGREGATE SHOULDER, TYPE B, 4"
- ③ EXISTING PAVEMENT MARKING
- ④ EXISTING AGGREGATE BASE COURSE, TYPE A, 12"  
W/ EXISTING BITUMINOUS SURFACE TREATMENT, CLASS A3
- ⑤ EXISTING LEVELING BINDER (MACHINE METHOD), N70, 2"
- ⑥ EXISTING HOT-MIX ASPHALT SURFACE COURSE, MIX D, N70, 2"
- ⑦ EXISTING AGGREGATE BASE COURSE, TYPE A, 8"  
W/ EXISTING BITUMINOUS SURFACE TREATMENT, CLASS A3
- ⑧ PROPOSED AGGREGATE SHOULDER, TYPE B, 6"
- ⑨ PROPOSED PAVEMENT MARKING
- ⑩ PROPOSED LIME MODIFIED SOIL, 12"
- ⑪ PROPOSED SUB-BASE GRANULAR MATERIAL, TYPE B, CA-4, 5"
- ⑫ PROPOSED AGGREGATE BASE COURSE, TYPE A, CA-6, 8"
- ⑬ PROPOSED HOT-MIX ASPHALT BINDER COURSE, IL 19.0, N70, 3"
- ⑭ PROPOSED HOT-MIX ASPHALT SURFACE COURSE, MIX D, N70, 2"
- ⑮ PROPOSED LEVELING BINDER (MACHINE METHOD), N70, VARIABLE DEPTH
- ⑯ PROPOSED GUARDRAIL, TYPE A  
(REFER TO INTERSECTION DETAILS)
- ⑰ PROPOSED SUB-BASE GRANULAR MATERIAL, TYPE B, VARIABLE DEPTH
- ⑱ PROPOSED MILLING OF EXISTING SURFACE  
(REFER TO PLAN FOR AREA, LOCATION AND DEPTH INFORMATION)



**HANOVER ROAD**  
**PROPOSED TYPICAL SECTION**

\*\* FORESLOPE SUMMARY (THIS SECTION - RIGHT SIDE):  
2:1 (STA. 9+60.85 TO STA. 10+34.98)  
4:1 (STA. 10+84.60)  
(REFER TO PLANS FOR GUARDRAIL LOCATIONS)



**B ROAD**  
**PROPOSED TYPICAL SECTION**

\*\* FORESLOPE SUMMARY (THIS SECTION - RIGHT SIDE):  
4:1 (STA. 8+37.07)  
2:1 (STA. 8+91.33 TO STA. 9+17.05)  
(REFER TO PLANS FOR GUARDRAIL LOCATIONS)

|                     |                 |          |
|---------------------|-----------------|----------|
| FAS ROUTE           | IDOT SECTION    | COUNTY   |
| 1857                | 04-00071-00-BR  | MONROE   |
| FEDERAL AID PROJECT |                 | ILLINOIS |
| IDOT JOB NO.        | BR-RS-1857(121) |          |
| IDOT CONTRACT NO.   | 97323           |          |

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**EARTHWORK, ENTRANCE,  
RIPRAP, AND DRAINAGE  
SCHEDULES**  
**BLUFF ROAD (CTY. HWY. 6)  
BRIDGE REPLACEMENT  
OVER FOUNTAIN CREEK  
MONROE COUNTY, IL**

TITLE: \_\_\_\_\_  
PROJECT: \_\_\_\_\_

| REV. | DATE | DESCRIPTION |
|------|------|-------------|
| △    |      |             |
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|                                                        |                                             |
|--------------------------------------------------------|---------------------------------------------|
| DRAWN BY: KBF/JWS                                      | SHEET                                       |
| DESIGNED BY: BJG                                       | 9                                           |
| CHECKED BY: SJK                                        | OF 62 SHEETS                                |
| APPROVED BY: SJK                                       | PROJECT DESCRIPTION                         |
| PROJECT NUMBER: 116-040125                             | BLUFF RD. BRIDGE<br>OVER FOUNTAIN CRK.      |
| <input type="checkbox"/> ISSUED FOR REVIEW             | <input type="checkbox"/> ISSUED FOR BIDDING |
| <input checked="" type="checkbox"/> ISSUED FOR CONSTR. | <input type="checkbox"/> RECORD DRAWING     |

| EARTHWORK SCHEDULE                                                                                                                                                                                                  |    |           |                                |                                                             |                       |                                                                                           |                                    |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|-----------|--------------------------------|-------------------------------------------------------------|-----------------------|-------------------------------------------------------------------------------------------|------------------------------------|
| LOCATION<br>(STATION TO STATION)                                                                                                                                                                                    |    |           | EARTH<br>EXCAVATION<br>(CU YD) | EARTH<br>EXCAVATION<br>ADJUSTED FOR<br>SHRINKAGE<br>(CU YD) | EMBANKMENT<br>(CU YD) | NOTES                                                                                     | FURNISHED<br>EXCAVATION<br>(CU YD) |
| BLUFF ROAD (STAGES 1-2)                                                                                                                                                                                             |    |           |                                |                                                             |                       |                                                                                           |                                    |
| 292+00                                                                                                                                                                                                              | TO | 321+00    | 384                            | 288                                                         | 44,905                | --> TEMPORARY DRAINAGE DITCH EXCAVATION TO BE USED ON BLUFF ROAD EMBANKMENT IN THIS STAGE | -44,617                            |
| BLUFF ROAD (STAGE 3)                                                                                                                                                                                                |    |           |                                |                                                             |                       |                                                                                           |                                    |
| 285+86.34                                                                                                                                                                                                           | TO | 292+00    | 697                            | 523                                                         | 784                   | -                                                                                         | -261                               |
| 321+00                                                                                                                                                                                                              | TO | 325+06.21 | 642                            | 482                                                         | 749                   | -                                                                                         | -268                               |
| BLUFF ROAD (STAGES 4-5)                                                                                                                                                                                             |    |           |                                |                                                             |                       |                                                                                           |                                    |
| --> TEMPORARY DRAINAGE DITCH TO BE BACKFILLED IN THIS STAGE                                                                                                                                                         |    |           |                                |                                                             |                       |                                                                                           |                                    |
| --> EXISTING HOT-MIX-ASPHALT PAVEMENT & AGGREGATE BASE MAY BE PLACED IN DESIGNATED STORAGE AREAS IN THIS STAGE (2,484 CU. YD. OF STORAGE AVAILABLE FOR 925 CU. YD. OF HMA & 2,011 CU. YD. OF AGGREGATE BASE COURSE) |    |           |                                |                                                             |                       |                                                                                           |                                    |
| 285+86.34                                                                                                                                                                                                           | TO | 325+06.21 | 10,722                         | 8,042                                                       | 10,851                |                                                                                           | -608*                              |
| HANOVER ROAD (STAGE 4)                                                                                                                                                                                              |    |           |                                |                                                             |                       |                                                                                           |                                    |
| 9+54.79                                                                                                                                                                                                             | TO | 12+02.04  | 198                            | 149                                                         | 155                   |                                                                                           | -7                                 |
| "B" ROAD (STAGE 2)                                                                                                                                                                                                  |    |           |                                |                                                             |                       |                                                                                           |                                    |
| 8+50.08                                                                                                                                                                                                             | TO | 9+54.79   | 10                             | 8                                                           | 563                   | -                                                                                         | -556                               |
| TOTAL                                                                                                                                                                                                               |    |           | 12,653                         | 9,490                                                       | 58,007                |                                                                                           | -46,315**                          |

NOTES: \* QUANTITY REPRESENTS UTILIZING ALL EXISTING PAVEMENT AND SHOULDERS AS EMBANKMENT MATERIAL (AS OUTLINED ABOVE & REPRESENTED BY THE FOLLOWING COMPUTATION):

ADJ. EARTH EXCAVATION (8,042 CU. YD.) - EMBANKMENT (10,851 CU. YD.) + ADJ. HMA REMOVAL (0.75%)(925 CU. YD.) + ADJ. AGG. BASE REMOVAL (0.75%)(2,011 CU. YD.) = STAGE IV & V FURNISHED EXCAVATION (-608 CU. YD).

THE RESIDENT ENGINEER HAS THE OPTION OF ADJUSTING THE FINAL GRADING JUST EAST OF THE LEFT SIDE DITCH ALONG THE PROPOSED ALIGNMENT BETWEEN STA. 308+37.33 AND 310+50 TO ENABLE STORM WATER RUNOFF TO ENTER THE PROPOSED DITCH (AND BALANCE THE EARTHWORK IN THE FINAL STAGES OF CONSTRUCTION).

\*\* REFER TO BRIDGE STRUCTURAL PLANS FOR REMAINING QUANTITY.

| ENTRANCE SCHEDULE                   |                  |                     |                             |                                 |                          |
|-------------------------------------|------------------|---------------------|-----------------------------|---------------------------------|--------------------------|
| LOCATION<br>(STATION,<br>DIRECTION) | ENTRANCE<br>TYPE | EXISTING<br>SURFACE | PROPOSED<br>WIDTH<br>(FEET) | IMPROVEMENT<br>LENGTH<br>(FEET) | PROPOSED<br>GRADE<br>(%) |
| BLUFF ROAD (CTY. HWY. #6)           |                  |                     |                             |                                 |                          |
| 287+50.00 RT.                       | F.E.             | AGGREGATE           | 24                          | 23.2                            | -6.00                    |
| 316+75.00 LT.                       | F.E.             | AGGREGATE           | 24                          | 54.8                            | -6.00                    |
| 316+75.00 RT.                       | F.E.             | AGGREGATE           | 24                          | 40.9                            | -6.00                    |
| 321+19.10 LT.                       | F.E.             | AGGREGATE           | 20                          | 50.8                            | 4.90                     |

| PROPOSED RIPRAP SCHEDULE  |                                                   |
|---------------------------|---------------------------------------------------|
| LOCATION                  | STONE DUMPED RIPRAP,<br>CL. A4 (SPEC.)<br>(SQ YD) |
| BLUFF ROAD (CTY. HWY. #6) |                                                   |
| 289+61.68 RT.             | 8.0                                               |
| 294+00.00 RT.             | 11.0                                              |
| 301+00.00 LT.             | 93.4                                              |
| 301+00.00 RT.             | 112.5                                             |
| TOTAL                     | 225**                                             |

\*\* REFER TO BRIDGE STRUCTURAL PLANS  
FOR REMAINING JOB QUANTITY.

| DRAINAGE PIPE & CULVERT SCHEDULE |         |     |    |           |                    |                    |                         |                    |                                     |                                                  |                                                  |                                                                 |
|----------------------------------|---------|-----|----|-----------|--------------------|--------------------|-------------------------|--------------------|-------------------------------------|--------------------------------------------------|--------------------------------------------------|-----------------------------------------------------------------|
| LOCATION<br>(STATION TO STATION) |         |     |    | TYPE      | 15" PIPE<br>(FEET) | 18" PIPE<br>(FEET) | 24" PIPE<br>(FEET)      | 48" PIPE<br>(FEET) | 18" METAL<br>END SECTIONS<br>(EACH) | 24" CONCRETE<br>FLARED END<br>SECTIONS<br>(EACH) | 48" CONCRETE<br>FLARED END<br>SECTIONS<br>(EACH) | GRATING FOR<br>24" CONCRETE<br>FLARED END<br>SECTIONS<br>(EACH) |
| BLUFF ROAD (CTY. HWY. #6)        |         |     |    |           |                    |                    |                         |                    |                                     |                                                  |                                                  |                                                                 |
| 289+61.68                        | 16.19'  | RT. | TO | 289+61.68 | 38.19'             | RT.                | TYPE 1, CORR.STL./ALUM. |                    | 1                                   |                                                  |                                                  |                                                                 |
| 289+61.68                        | 31.57'  | LT. | TO |           |                    |                    |                         | 16                 | 1                                   |                                                  |                                                  | 4                                                               |
| 294+00.00                        | 36.86'  | LT. | TO | 294+00.00 | 43.28'             | RT.                | CLASS A, TYPE 2         |                    |                                     | 2                                                |                                                  | 45                                                              |
| 301+00.00                        | 57.07'  | LT. | TO | 301+00.00 | 65.22'             | RT.                | CLASS A, TYPE 2         |                    |                                     |                                                  | 2                                                |                                                                 |
| 302+09.61                        | 150.98' | LT. | TO | 301+96.88 | 82.25'             | LT.                |                         | 104                |                                     |                                                  |                                                  | 70                                                              |
| 306+71.79                        | 65.40'  | LT. | TO | 306+82.25 | 64.34'             | LT.                |                         |                    |                                     |                                                  |                                                  | 11                                                              |
| 306+71.72                        | 20.33'  | LT. | TO | 306+80.62 | 19.83'             | LT.                |                         |                    |                                     |                                                  |                                                  | 9                                                               |
| 308+03.70                        | 2.61'   | RT. | TO | 308+23.71 | 2.44'              | LT.                |                         |                    |                                     |                                                  |                                                  | 21                                                              |
| 316+00.00                        |         | LT. | TO | 316+00.00 |                    | LT.                | CLASS D, TYPE 1 (TEMP.) | 63                 |                                     |                                                  |                                                  |                                                                 |
| 316+47.40                        | 41.62'  | LT. | TO | 317+02.61 | 40.96'             | LT.                | TYPE 1, CORR.STL./ALUM. |                    | 2                                   |                                                  |                                                  |                                                                 |
| 320+94.30                        | 33.68'  | LT. | TO | 321+43.90 | 33.07'             | LT.                | TYPE 1, CORR.STL./ALUM. | 52                 | 2                                   |                                                  |                                                  |                                                                 |
| 316+74.93                        | 117.30' | LT. | TO | 317+02.81 | 118.75'            | LT.                |                         | 47                 |                                     |                                                  |                                                  | 30                                                              |
| 321+06.57                        | 69.57'  | LT. | TO | 321+29.89 | 63.51'             | LT.                |                         |                    |                                     |                                                  |                                                  | 24                                                              |
| TOTAL                            |         |     |    |           |                    |                    |                         | 63                 | 115                                 | 70                                               | 104                                              | 213                                                             |

|                     |                 |          |
|---------------------|-----------------|----------|
| FAS ROUTE           | IDOT SECTION    | COUNTY   |
| 1857                | 04-00071-00-BR  | MONROE   |
| FEDERAL AID PROJECT |                 | ILLINOIS |
| IDOT JOB NO.        | BR-RS-1857(121) |          |
| IDOT CONTRACT NO.   | 97323           |          |

THOUVENOT,  
WADE &  
MOERCHEN, INC.  
ENGINEERS ♦ SURVEYORS ♦ PLANNERS



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SWANSEA, ILLINOIS 62226  
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EDWARDSVILLE, ILLINOIS 62025  
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FAX (618) 939-3938  
waterloo@twm-inc.com
- |                                     |             |
|-------------------------------------|-------------|
| PROFESSIONAL REGISTRATIONS          | LICENSE NO. |
| ILLINOIS PROFESSIONAL DESIGN FIRM   | 184-001220  |
| PROFESSIONAL ENGINEERING CORP.      | 62-035370   |
| PROFESSIONAL STRUCTURAL ENGR. CORP. | 81-005202   |
| ILLINOIS PROF. LAND SURVEYING CORP. | 048-000029  |
| MISSOURI PROFESSIONAL ENGR. CORP.   | NC 001528   |
| MISSOURI LAND SURVEYING CORP.       | NC 000346   |

SEAL

**FINAL**

Signature: \_\_\_\_\_  
Signature Date: \_\_\_\_\_  
Expiration Date: \_\_\_\_\_

**STATEMENT OF RESPONSIBILITY**  
I hereby confirm that the document herein to be  
authentic and that the document is restricted to this sheet,  
and I hereby disclaim any responsibility for all other  
drawings, specifications, estimates, reports or other  
documents or instruments relating to or intended to  
be utilized for any other part of the architectural,  
engineering or survey project.

TITLE

**PAVING  
SCHEDULE**

PROJECT:

**BLUFF ROAD (CTY. HWY. 6)  
BRIDGE REPLACEMENT  
OVER FOUNTAIN CREEK  
MONROE COUNTY, IL**

| REV. | DATE | DESCRIPTION |
|------|------|-------------|
| △    |      |             |
| △    |      |             |
| △    |      |             |

|                                                        |                                             |
|--------------------------------------------------------|---------------------------------------------|
| DRAWN BY: KBF/JWS                                      | SHEET                                       |
| DESIGNED BY: BJK                                       | <b>10</b>                                   |
| CHECKED BY: SJK                                        | OF 62 SHEETS                                |
| APPROVED BY: SJK                                       | PROJECT DESCRIPTION                         |
| PROJECT NUMBER: 16-040125                              | BLUFF RD. BRIDGE OVER FOUNTAIN CRK.         |
| <input type="checkbox"/> ISSUED FOR REVIEW             | <input type="checkbox"/> ISSUED FOR BIDDING |
| <input checked="" type="checkbox"/> ISSUED FOR CONSTR. | <input type="checkbox"/> RECORD DRAWING     |

PAVING SCHEDULE

| LOCATION<br>(STATION TO STATION) | RUMBLE<br>STRIPS<br>(FOOT) | SUB-BASE<br>GRAN. MATL.<br>T-B<br>(TON) | AGGREGATE<br>BASE CSE.<br>T-A, 8"<br>(SQ YD) | PAVEMENT<br>REMOVAL<br>(SQ YD) | PAVEMENT<br>REMOVAL<br>(SPECIAL)<br>(SQ YD) | HOT-MIX<br>ASPHALT<br>BINDER<br>COURSE<br>IL-19.0, N 70<br>(TON) | HOT-MIX<br>ASPHALT<br>SURFACE<br>COURSE,<br>MIX "D", N70<br>(TON) | LEVELING<br>BINDER(MM),<br>N70<br>(TON) | AGGREGATE<br>PRIME COAT<br>(TON) | BITUMINOUS<br>MATERIALS<br>PRIME COAT<br>(GAL) | PROCESS<br>MODIFIED<br>SOIL 12"<br>(SQ. YD.) | LIME<br>(TON) | AGGREGATE<br>SHOULDER,<br>TYPE B<br>(TON) | HOT-MIX<br>ASPHALT<br>SHOULDERS<br>(TON) | HOT-MIX<br>ASPHALT<br>SURFACE<br>REMOVAL<br>(VARIABLE DEPTH)<br>(SQ YD) | TEMP.<br>RAMP<br>(SQ. YD.) | HOT-MIX<br>ASPHALT<br>SURFACE<br>REMOVAL<br>BUTT JOINT<br>(SQ. YD.) |
|----------------------------------|----------------------------|-----------------------------------------|----------------------------------------------|--------------------------------|---------------------------------------------|------------------------------------------------------------------|-------------------------------------------------------------------|-----------------------------------------|----------------------------------|------------------------------------------------|----------------------------------------------|---------------|-------------------------------------------|------------------------------------------|-------------------------------------------------------------------------|----------------------------|---------------------------------------------------------------------|
| BLUFF ROAD (CTY. HWY. #6)        |                            |                                         |                                              |                                |                                             |                                                                  |                                                                   |                                         |                                  |                                                |                                              |               |                                           |                                          |                                                                         |                            |                                                                     |
| 285+86.34 RT. TO 286+57.35 RT.   |                            | 3.5                                     | 11.8                                         |                                |                                             | 1.3                                                              |                                                                   |                                         |                                  | 3.0                                            | 11.8                                         | 0.3           |                                           |                                          |                                                                         |                            |                                                                     |
| 285+86.34 LT. TO 286+57.35 LT.   |                            | 3.5                                     | 11.8                                         |                                |                                             | 1.3                                                              |                                                                   |                                         |                                  | 3.0                                            | 11.8                                         | 0.3           |                                           |                                          |                                                                         |                            |                                                                     |
| 285+86.34 RT. TO 305+95.56 RT.   |                            |                                         |                                              |                                |                                             |                                                                  |                                                                   |                                         |                                  |                                                |                                              |               | 676.5                                     |                                          |                                                                         |                            |                                                                     |
| 285+86.34 LT. TO 286+36.34 RT.   |                            |                                         |                                              |                                |                                             |                                                                  | 8.4                                                               |                                         |                                  |                                                |                                              |               |                                           |                                          |                                                                         |                            |                                                                     |
| 285+86.34 LT. TO 287+36.34 LT.   |                            |                                         |                                              |                                |                                             |                                                                  | 7.5                                                               |                                         |                                  |                                                |                                              |               |                                           |                                          |                                                                         |                            |                                                                     |
| 285+86.34 LT. TO 305+74.56 LT.   |                            |                                         |                                              |                                |                                             |                                                                  |                                                                   |                                         |                                  |                                                |                                              |               | 651.1                                     |                                          |                                                                         |                            |                                                                     |
| 285+86.34 TO 290+69.82           |                            |                                         |                                              |                                |                                             |                                                                  |                                                                   | 291.2                                   | 1.5                              | 0.3                                            |                                              |               |                                           |                                          |                                                                         |                            |                                                                     |
| 285+86.34 TO 286+16.34           |                            |                                         |                                              |                                |                                             |                                                                  |                                                                   |                                         |                                  |                                                |                                              |               |                                           |                                          |                                                                         | 12.2                       | 195.0                                                               |
| 286+36.34 RT. TO 286+57.35 RT.   |                            |                                         |                                              |                                |                                             |                                                                  | 3.1                                                               |                                         |                                  |                                                |                                              |               |                                           |                                          |                                                                         |                            |                                                                     |
| 286+36.34 LT. TO 286+57.35 LT.   |                            |                                         |                                              |                                |                                             |                                                                  | 3.1                                                               |                                         |                                  |                                                |                                              |               |                                           |                                          |                                                                         |                            |                                                                     |
| 286+57.35 RT. TO 287+61.34 RT.   |                            | 5.1                                     | 17.3                                         |                                |                                             | 1.9                                                              | 15.5                                                              |                                         |                                  | 4.3                                            | 17.3                                         | 0.4           |                                           |                                          |                                                                         |                            |                                                                     |
| 286+57.35 LT. TO 287+61.34 LT.   |                            | 5.1                                     | 17.3                                         |                                |                                             | 1.9                                                              | 15.5                                                              |                                         |                                  | 4.3                                            | 17.3                                         | 0.4           |                                           |                                          |                                                                         |                            |                                                                     |
| 287+61.34 RT. TO 289+80.12 RT.   |                            | 50.0                                    | 170.2                                        |                                |                                             | 26.6                                                             | 32.7                                                              |                                         |                                  | 59.3                                           | 170.2                                        | 4.0           |                                           |                                          |                                                                         |                            |                                                                     |
| 287+61.34 LT. TO 288+17.76 LT.   |                            | 1.4                                     | 4.7                                          |                                |                                             | 0.5                                                              |                                                                   |                                         |                                  | 1.2                                            | 4.7                                          | 0.1           |                                           |                                          |                                                                         |                            |                                                                     |
| 287+61.34 LT. TO 289+80.12 LT.   |                            |                                         |                                              |                                |                                             |                                                                  | 32.7                                                              |                                         |                                  |                                                |                                              |               |                                           |                                          |                                                                         |                            |                                                                     |
| 288+17.76 LT. TO 306+24.00 LT.   |                            |                                         |                                              | 4,083.8                        |                                             |                                                                  |                                                                   |                                         |                                  |                                                |                                              |               |                                           |                                          |                                                                         |                            |                                                                     |
| *288+18.06 TO *289+82.76         |                            |                                         |                                              |                                |                                             |                                                                  |                                                                   |                                         |                                  |                                                |                                              |               |                                           |                                          |                                                                         |                            |                                                                     |
| *289+82.76 TO *290+70.39         |                            |                                         |                                              |                                | 100.7                                       | 95.7                                                             |                                                                   |                                         |                                  |                                                |                                              |               |                                           |                                          |                                                                         |                            |                                                                     |
| *290+70.39 TO *290+80.39         |                            |                                         |                                              |                                | 160.7                                       | 88.5                                                             |                                                                   |                                         |                                  |                                                |                                              |               |                                           |                                          |                                                                         |                            |                                                                     |
|                                  |                            |                                         |                                              |                                | 73.3                                        | 17.0                                                             |                                                                   |                                         |                                  |                                                |                                              |               |                                           |                                          |                                                                         |                            |                                                                     |
| 289+80.12 RT. TO 293+01.95 RT.   |                            | 131.4                                   | 447.0                                        |                                |                                             | 72.1                                                             | 48.1                                                              |                                         |                                  | 160.9                                          | 447.0                                        | 10.6          |                                           |                                          |                                                                         |                            |                                                                     |
| 289+80.12 LT. TO 290+69.82 LT.   |                            | 18.3                                    | 62.3                                         |                                |                                             | 10.9                                                             |                                                                   |                                         |                                  | 24.3                                           | 62.3                                         | 1.5           |                                           |                                          |                                                                         |                            |                                                                     |
| 289+80.12 LT. TO 293+01.95 LT.   |                            |                                         |                                              |                                |                                             |                                                                  | 48.1                                                              |                                         |                                  |                                                |                                              |               |                                           |                                          |                                                                         |                            |                                                                     |
| 289+87.99 LT. TO 290+78.51 LT.   |                            |                                         |                                              |                                |                                             |                                                                  |                                                                   |                                         |                                  |                                                |                                              |               |                                           |                                          |                                                                         |                            |                                                                     |
| 290+69.82 LT. TO 293+01.95 LT.   |                            | 95.0                                    | 322.4                                        |                                |                                             | 52.0                                                             |                                                                   |                                         |                                  | 116.1                                          | 322.4                                        | 7.9           |                                           |                                          |                                                                         |                            |                                                                     |
| 293+01.95 RT. TO 295+12.22 RT.   |                            | 85.9                                    | 292.0                                        |                                |                                             | 47.1                                                             | 31.4                                                              |                                         |                                  | 105.1                                          | 292.0                                        | 6.9           |                                           |                                          |                                                                         |                            |                                                                     |
| 293+01.95 LT. TO 295+12.22 LT.   |                            | 85.9                                    | 292.0                                        |                                |                                             | 47.1                                                             | 31.4                                                              |                                         |                                  | 105.1                                          | 292.0                                        | 6.9           |                                           |                                          |                                                                         |                            |                                                                     |
| 295+12.22 RT. TO 306+82.36 RT.   |                            | 477.8                                   | 1,625.2                                      |                                |                                             | 262.1                                                            | 174.7                                                             |                                         |                                  | 585.1                                          | 1,625.2                                      | 38.4          |                                           |                                          |                                                                         |                            |                                                                     |
| 295+12.22 LT. TO 306+82.36 LT.   |                            | 477.8                                   | 1,625.2                                      |                                |                                             | 262.1                                                            | 174.7                                                             |                                         |                                  | 585.1                                          | 1,625.2                                      | 38.4          |                                           |                                          |                                                                         |                            |                                                                     |
| 303+60.24 RT. TO 305+95.56 RT.   | 235.3                      |                                         |                                              |                                |                                             |                                                                  |                                                                   |                                         |                                  |                                                |                                              |               |                                           |                                          |                                                                         |                            |                                                                     |
| 303+60.24 LT. TO 305+74.56 LT.   | 214.3                      |                                         |                                              |                                |                                             |                                                                  |                                                                   |                                         |                                  |                                                |                                              |               |                                           |                                          |                                                                         |                            |                                                                     |
| 303+60.24 LT. TO 305+96.35 LT.   |                            |                                         |                                              |                                |                                             |                                                                  |                                                                   |                                         |                                  |                                                |                                              |               |                                           |                                          |                                                                         |                            |                                                                     |
| 303+60.24 RT. TO 306+20.56 RT.   |                            |                                         |                                              |                                |                                             |                                                                  |                                                                   |                                         |                                  |                                                |                                              |               |                                           | 42.5                                     |                                                                         |                            |                                                                     |
| 306+48.11 LT. TO 306+80.36 LT.   |                            |                                         |                                              | 141.6                          |                                             |                                                                  |                                                                   |                                         |                                  |                                                |                                              |               |                                           | 47.4                                     |                                                                         |                            |                                                                     |
| 306+77.36 TO 306+82.36           |                            |                                         |                                              |                                |                                             |                                                                  |                                                                   |                                         |                                  |                                                |                                              |               |                                           |                                          |                                                                         | 16.7                       |                                                                     |
| 307+98.18 LT. TO 324+48.49 LT.   |                            |                                         |                                              | 3,839.0                        |                                             |                                                                  |                                                                   |                                         |                                  |                                                |                                              |               |                                           |                                          |                                                                         | 16.7                       |                                                                     |
| 308+23.36 TO 308+28.36           |                            |                                         |                                              |                                |                                             |                                                                  |                                                                   |                                         |                                  |                                                |                                              |               |                                           |                                          |                                                                         |                            |                                                                     |
| 308+23.36 RT. TO 319+91.46 RT.   |                            | 477.0                                   | 1,622.4                                      |                                |                                             | 261.7                                                            | 174.4                                                             |                                         |                                  | 584.1                                          | 1,622.4                                      | 38.4          |                                           |                                          |                                                                         |                            |                                                                     |
| 308+23.36 LT. TO 319+91.46 LT.   |                            | 477.0                                   | 1,622.4                                      |                                |                                             | 261.7                                                            | 174.4                                                             |                                         |                                  | 584.1                                          | 1,622.4                                      | 38.4          |                                           |                                          |                                                                         |                            |                                                                     |
| 308+27.74 LT. TO 311+01.59 LT.   |                            |                                         |                                              |                                |                                             |                                                                  |                                                                   |                                         |                                  |                                                |                                              |               |                                           |                                          | 51.0                                                                    |                            |                                                                     |
| 308+30.40 LT. TO 325+06.21 LT.   |                            |                                         |                                              |                                |                                             |                                                                  |                                                                   |                                         |                                  |                                                |                                              |               |                                           |                                          |                                                                         |                            |                                                                     |
| 308+30.69 LT. TO 311+01.59 LT.   | 270.9                      |                                         |                                              |                                |                                             |                                                                  |                                                                   |                                         |                                  |                                                |                                              |               |                                           |                                          |                                                                         |                            |                                                                     |
| 308+44.74 RT. TO 311+48.26 RT.   | 303.5                      |                                         |                                              |                                |                                             |                                                                  |                                                                   |                                         |                                  |                                                |                                              |               |                                           |                                          |                                                                         |                            |                                                                     |
| 308+46.92 RT. TO 311+48.26 RT.   |                            |                                         |                                              |                                |                                             |                                                                  |                                                                   |                                         |                                  |                                                |                                              |               |                                           |                                          |                                                                         |                            |                                                                     |
| 319+91.46 RT. TO 322+97.66 RT.   |                            | 125.0                                   | 425.3                                        |                                |                                             | 68.6                                                             | 45.7                                                              |                                         |                                  | 153.1                                          | 425.3                                        | 10.1          |                                           |                                          |                                                                         |                            |                                                                     |
| 319+91.46 LT. TO 322+20.84 LT.   |                            | 93.5                                    | 317.9                                        |                                |                                             | 51.3                                                             | 34.3                                                              |                                         |                                  | 114.4                                          | 317.9                                        | 7.5           |                                           |                                          |                                                                         |                            |                                                                     |
| *321+88.29 TO 322+44.92          |                            |                                         |                                              |                                | 55.8                                        | 4.7                                                              |                                                                   |                                         |                                  |                                                |                                              |               |                                           |                                          |                                                                         |                            |                                                                     |
| 321+93.09 TO 323+64.28           |                            |                                         |                                              |                                |                                             |                                                                  |                                                                   |                                         |                                  |                                                |                                              |               |                                           |                                          |                                                                         |                            |                                                                     |
| *322+44.92 TO *322+76.92         |                            |                                         |                                              |                                |                                             | 45.4                                                             | 3.1                                                               |                                         |                                  |                                                |                                              |               |                                           |                                          |                                                                         |                            |                                                                     |
| *322+76.92 TO *322+97.25         |                            |                                         |                                              |                                |                                             | 28.9                                                             | 6.6                                                               |                                         |                                  |                                                |                                              |               |                                           |                                          |                                                                         |                            |                                                                     |
| *322+97.25 TO *324+56.39         |                            |                                         |                                              |                                |                                             | 97.3                                                             | 33.8                                                              |                                         |                                  |                                                |                                              |               |                                           |                                          |                                                                         |                            |                                                                     |
| 322+97.66 RT. TO 324+54.68 RT.   |                            |                                         |                                              |                                |                                             |                                                                  |                                                                   |                                         |                                  |                                                |                                              |               |                                           |                                          |                                                                         |                            |                                                                     |
| 322+97.66 LT. TO 324+54.68 LT.   |                            |                                         |                                              |                                |                                             |                                                                  |                                                                   |                                         |                                  |                                                |                                              |               |                                           |                                          |                                                                         |                            |                                                                     |
| 322+97.66 RT. TO 324+74.68 RT.   |                            | 40.5                                    | 137.7                                        |                                |                                             | 21.5                                                             |                                                                   |                                         |                                  | 47.9                                           | 137.7                                        | 3.3           |                                           |                                          |                                                                         |                            |                                                                     |
| 322+20.84 LT. TO 322+97.66 LT.   |                            | 17.6                                    | 59.8                                         |                                |                                             | 9.3                                                              | 11.5                                                              |                                         |                                  | 20.8                                           | 59.8                                         | 1.4           |                                           |                                          |                                                                         |                            |                                                                     |
| 322+20.84 TO 325+04.68           |                            |                                         |                                              |                                |                                             |                                                                  |                                                                   | 77.6                                    | 0.8                              | 113.3                                          |                                              |               |                                           |                                          |                                                                         |                            |                                                                     |
| 324+54.68 RT. TO 325+04.68 RT.   |                            |                                         |                                              |                                |                                             |                                                                  | 8.4                                                               |                                         |                                  |                                                |                                              |               |                                           |                                          |                                                                         |                            |                                                                     |
| 324+54.68 LT. TO 325+04.68 LT.   |                            |                                         |                                              |                                |                                             |                                                                  | 8.4                                                               |                                         |                                  |                                                |                                              |               |                                           |                                          |                                                                         |                            |                                                                     |
| 324+74.68 TO 325+04.68           |                            |                                         |                                              |                                |                                             |                                                                  |                                                                   |                                         |                                  |                                                |                                              |               |                                           |                                          |                                                                         |                            |                                                                     |
| 324+74.68 RT. TO 325+04.68 RT.   |                            | 1.5                                     | 5.0                                          |                                |                                             | 0.6                                                              |                                                                   |                                         |                                  | 0.0                                            | 5.0                                          | 0.1           |                                           |                                          |                                                                         | 12.2                       | 195.0                                                               |
| 324+48.49 LT. TO 325+04.68 LT.   |                            | 1.4                                     | 4.7                                          |                                |                                             | 0.5                                                              |                                                                   |                                         |                                  | 0.0                                            | 4.7                                          | 0.1           |                                           |                                          |                                                                         |                            |                                                                     |
| SUB-TOTAL                        | 1,024.0                    | 2,674.0                                 | 9,094.4                                      | 8,064.4                        | 562.1                                       | 1,711.4                                                          | 1,131.0                                                           | 368.8                                   | 2.2                              | 3,374.7                                        | 9,094.3                                      | 215.2         | 2,483.5                                   | 196.9                                    | 91.3                                                                    | 57.8                       | 390.0                                                               |
| HANOVER ROAD                     |                            |                                         |                                              |                                |                                             |                                                                  |                                                                   |                                         |                                  |                                                |                                              |               |                                           |                                          |                                                                         |                            |                                                                     |
| 9+66.79 TO 10+40.35              |                            | 494.1                                   |                                              |                                |                                             |                                                                  |                                                                   |                                         |                                  |                                                |                                              |               |                                           |                                          |                                                                         |                            |                                                                     |
| 10+40.35 TO 11+77.72             |                            | 242.3                                   |                                              |                                |                                             |                                                                  |                                                                   |                                         |                                  |                                                |                                              |               |                                           |                                          |                                                                         |                            |                                                                     |
| 9+66.79 TO 12+02.04              |                            |                                         |                                              |                                |                                             |                                                                  | 81.2                                                              |                                         | 1.8                              | 271.9                                          |                                              |               |                                           |                                          |                                                                         |                            |                                                                     |
| 305+74.56 LT. TO 10+21.21 LT.    |                            |                                         |                                              |                                |                                             |                                                                  |                                                                   |                                         |                                  |                                                |                                              |               |                                           |                                          |                                                                         |                            |                                                                     |
| 10+21.21 LT. TO 12+02.04 LT.     |                            |                                         |                                              |                                |                                             |                                                                  |                                                                   |                                         |                                  |                                                |                                              |               |                                           |                                          | 22.8                                                                    |                            |                                                                     |
| 306+88.51 LT. TO 10+40.35 RT.    |                            |                                         |                                              |                                |                                             |                                                                  |                                                                   |                                         |                                  |                                                |                                              |               |                                           |                                          | 39.1                                                                    |                            |                                                                     |
| 10+40.35 RT. TO 12+02.04 RT.     |                            |                                         |                                              |                                |                                             |                                                                  |                                                                   |                                         |                                  |                                                |                                              |               |                                           |                                          | 35.5                                                                    |                            |                                                                     |
| 9+66.79 TO 11+89.33              |                            |                                         |                                              |                                |                                             | 116.7                                                            |                                                                   |                                         |                                  |                                                |                                              |               |                                           |                                          | 87.3                                                                    |                            |                                                                     |
| SUB-TOTAL                        | 0.0                        | 736.4                                   | 0.0                                          | 0.0                            | 0.0                                         | 116.7                                                            | 81.2                                                              | 0.0                                     | 1.8                              | 271.9                                          | 0.0                                          | 0.0           | 184.8                                     | 0.0                                      | 0.0                                                                     | 0.0                        | 0.0                                                                 |
| "B" ROAD                         |                            |                                         |                                              |                                |                                             |                                                                  |                                                                   |                                         |                                  |                                                |                                              |               |                                           |                                          |                                                                         |                            |                                                                     |
| 8+50.08 TO 9+42.79               |                            |                                         |                                              |                                |                                             | 49.4                                                             | 35                                                                |                                         |                                  |                                                |                                              |               |                                           |                                          |                                                                         |                            |                                                                     |
| 8+70.01 TO 9+42.79               |                            | 185.2                                   |                                              |                                |                                             |                                                                  |                                                                   |                                         | 0.8                              | 117.2                                          |                                              |               |                                           |                                          |                                                                         |                            |                                                                     |
| 305+95.56 RT. TO 9+06.38 LT.     |                            |                                         |                                              |                                |                                             |                                                                  |                                                                   |                                         |                                  |                                                |                                              |               |                                           |                                          | 24.2                                                                    |                            |                                                                     |
| 9+06.38 LT. TO 8+50.08 LT.       |                            |                                         |                                              |                                |                                             |                                                                  |                                                                   |                                         |                                  |                                                |                                              |               |                                           |                                          | 12.1                                                                    |                            |                                                                     |
| 307+02.66 RT. TO 8+91.37 RT.     |                            |                                         |                                              |                                |                                             |                                                                  |                                                                   |                                         |                                  |                                                |                                              |               |                                           |                                          | 17.1                                                                    |                            |                                                                     |
| 8+91.37 RT. TO 7+96.97 RT.       |                            |                                         |                                              |                                |                                             |                                                                  |                                                                   |                                         |                                  |                                                |                                              |               |                                           |                                          | 33.6                                                                    |                            |                                                                     |
| SUB-TOTAL                        | 0.0                        | 185.2                                   | 0.0                                          | 0.0                            | 0.0                                         | 49.4                                                             | 35.0                                                              | 0.0                                     | 0.8                              | 117.2                                          | 0.0                                          | 0.0           | 87.1                                      | 0.0                                      | 0.0                                                                     | 0.0                        | 0.0                                                                 |
| TOTAL                            | 1,024                      | 3,596                                   | 9,094                                        | 8,064                          | 562                                         | 1,877                                                            | 1,247**                                                           | 369                                     | 4.8                              | 3,764                                          | 9,094                                        | 215           | 2,756                                     | 197                                      | 91                                                                      | 58                         | 390                                                                 |

\* EXISTING CENTER LINE STATIONING

\*\* REFER TO BRIDGE STRUCTURAL PLANS FOR REMAINING JOB QUANTITY.

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|                              |                |          |
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| 1857                         | 04-00071-00-BR | MONROE   |
| FEDERAL AID PROJECT          |                | ILLINOIS |
| IDOT JOB NO. BR-RS-1857(121) |                |          |
| IDOT CONTRACT NO. 97323      |                |          |

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| PROFESSIONAL REGISTRATIONS          | LICENSE NO. |
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| PROFESSIONAL ENGINEERING CORP.      | 62-035370   |
| PROFESSIONAL STRUCTURAL ENGR. CORP. | 81-000202   |
| ILLINOIS PROF. LAND SURVEYING CORP. | 048-000029  |
| MISSOURI PROFESSIONAL ENGR. CORP.   | NC 001528   |
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| GUARDRAIL SCHEDULE               |     |    |           |                                       |                                                              |                                        |                                |                                           |                                           |                                          |
|----------------------------------|-----|----|-----------|---------------------------------------|--------------------------------------------------------------|----------------------------------------|--------------------------------|-------------------------------------------|-------------------------------------------|------------------------------------------|
| LOCATION<br>(STATION TO STATION) |     |    |           | SPBGR<br>TYPE A,<br>SPECIAL<br>(FOOT) | TRAF. BARRIER TERM.,<br>T-1 (SPECIAL)<br>(TANGENT)<br>(EACH) | TRAF. BARRIER<br>TERM., T-5A<br>(EACH) | GUARDRAIL<br>REMOVAL<br>(FOOT) | BARRIER WALL<br>MARKERS, TYPE A<br>(EACH) | GUARDRAIL<br>MARKERS,<br>TYPE A<br>(EACH) | TERM. MARKER<br>DIRECT APPLIED<br>(EACH) |
| BLUFF ROAD (CTY. HWY. #6)        |     |    |           |                                       |                                                              |                                        |                                |                                           |                                           |                                          |
| 303+60.24                        | RT. | TO | 304+09.42 | RT.                                   |                                                              | 1                                      |                                |                                           |                                           | 1                                        |
| 304+54.00                        | RT. | TO | 8+51.25   | LT.                                   |                                                              |                                        |                                |                                           | 1                                         |                                          |
| 304+09.42                        | RT. | TO | 305+45.72 | RT.                                   | 137.5                                                        |                                        |                                |                                           |                                           |                                          |
| 305+11.43                        | LT. | TO | 10+55.51  | LT.                                   |                                                              |                                        |                                |                                           |                                           |                                          |
| 305+45.72                        | RT. | TO | 305+95.56 | RT.                                   |                                                              | 1                                      |                                |                                           |                                           | 1                                        |
| 306+74.15                        | LT. | TO | 308+14.24 |                                       |                                                              |                                        |                                | 3                                         |                                           |                                          |
| 308+40.15                        | LT. | TO | 310+52.18 | LT.                                   | 212.5                                                        |                                        |                                |                                           | 3                                         |                                          |
| 306+79.98                        | LT. | TO | 10+32.61  | RT.                                   |                                                              |                                        | 25.5                           |                                           |                                           |                                          |
| 306+80.73                        | RT. | TO | 9+42.79   | RT.                                   |                                                              |                                        | 38.0                           |                                           |                                           |                                          |
| 306+91.47                        | RT. | TO | 308+31.56 | RT.                                   |                                                              |                                        |                                | 3                                         |                                           |                                          |
| 307+97.88                        | LT. | TO | 308+35.88 | LT.                                   |                                                              |                                        | 38.4                           |                                           |                                           |                                          |
| 307+98.52                        | RT. | TO | 308+36.68 | RT.                                   |                                                              |                                        | 38.5                           |                                           |                                           |                                          |
| 308+26.90                        | LT. | TO | 308+40.15 | LT.                                   |                                                              | 1                                      |                                |                                           |                                           |                                          |
| 308+45.96                        | RT. | TO | 308+59.20 | RT.                                   |                                                              | 1                                      |                                |                                           |                                           |                                          |
| 308+59.20                        | RT. | TO | 310+97.68 | RT.                                   | 237.5                                                        |                                        |                                |                                           | 6                                         |                                          |
| 310+97.68                        | RT. | TO | 311+48.26 | RT.                                   |                                                              | 1                                      |                                |                                           |                                           | 1                                        |
| 310+52.18                        | LT. | TO | 311+01.59 | LT.                                   |                                                              | 1                                      |                                |                                           |                                           | 1                                        |
| SUB-TOTAL                        |     |    |           |                                       | 587.5                                                        | 4                                      | 2                              | 140.4                                     | 6                                         | 10                                       |
| HANOVER ROAD                     |     |    |           |                                       |                                                              |                                        |                                |                                           |                                           |                                          |
| 9+70.04                          | RT. | TO | 10+34.98  | RT.                                   | 62.5                                                         |                                        |                                |                                           | 1                                         |                                          |
| 10+34.98                         | RT. | TO | 10+84.60  | RT.                                   |                                                              | 1                                      |                                |                                           |                                           | 1                                        |
| 9+17.05                          | RT. | TO | 9+70.04   | RT.                                   |                                                              |                                        | 1                              |                                           |                                           |                                          |
| SUB-TOTAL                        |     |    |           |                                       | 62.5                                                         | 1                                      | 1                              | 0.0                                       | 0                                         | 1                                        |
| "B" ROAD                         |     |    |           |                                       |                                                              |                                        |                                |                                           |                                           |                                          |
| 8+37.87                          | RT. | TO | 8+88.20   | RT.                                   |                                                              | 1                                      |                                |                                           |                                           | 1                                        |
| 8+88.20                          | RT. | TO | 9+18.00   | RT.                                   | 37.5                                                         |                                        |                                |                                           | 1                                         |                                          |
| 9+17.05                          | RT. | TO | 9+18.00   | RT.                                   |                                                              |                                        | 1                              |                                           |                                           |                                          |
| SUB-TOTAL                        |     |    |           |                                       | 37.5                                                         | 1                                      | 1                              | 0.0                                       | 0                                         | 1                                        |
| TOTAL                            |     |    |           |                                       | 687.5                                                        | 6                                      | 4                              | 140                                       | 6                                         | 12                                       |

\* EXISTING CENTERLINE STATIONING

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|------------------------------|----------------|----------|
| 1857                         | 04-00071-00-BR | MONROE   |
| FEDERAL AID PROJECT          |                | ILLINOIS |
| IDOT JOB NO. BR-RS-1857(121) |                |          |
| IDOT CONTRACT NO. 97323      |                |          |

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| PROFESSIONAL REGISTRATIONS          | LICENSE NO. |
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| PROFESSIONAL STRUCTURAL ENGR. CORP. | 81-005022   |
| ILLINOIS PROF. LAND SURVEYING CORP. | 048-000029  |
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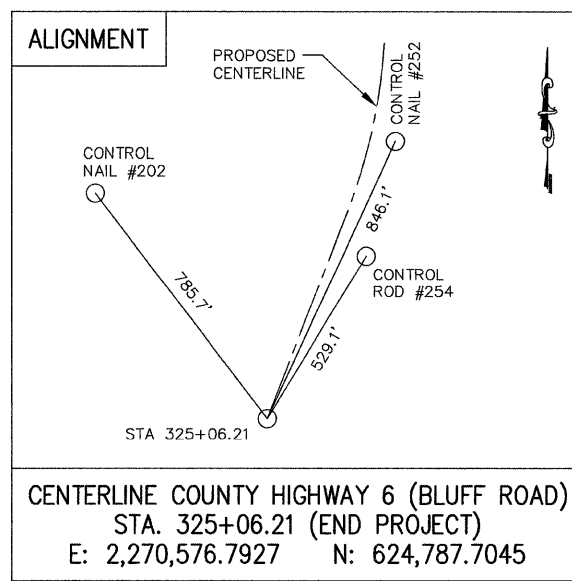
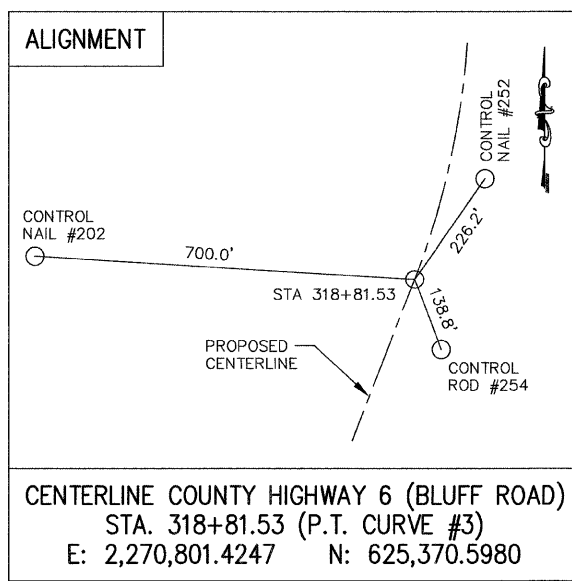
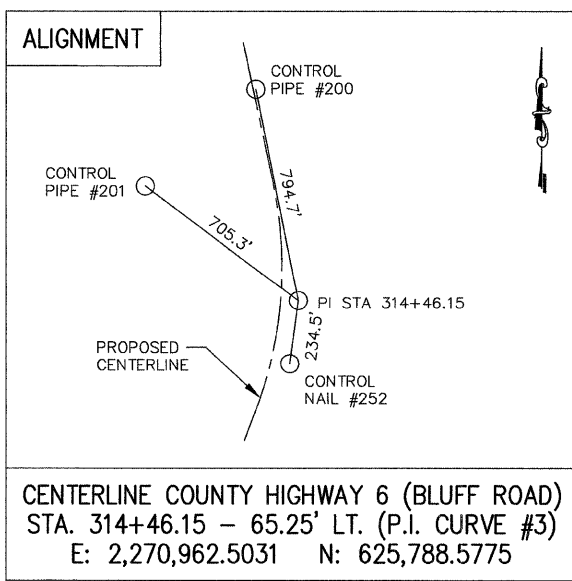
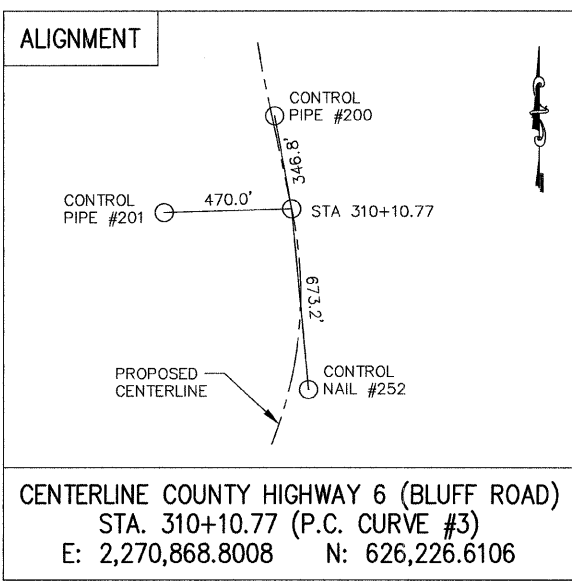
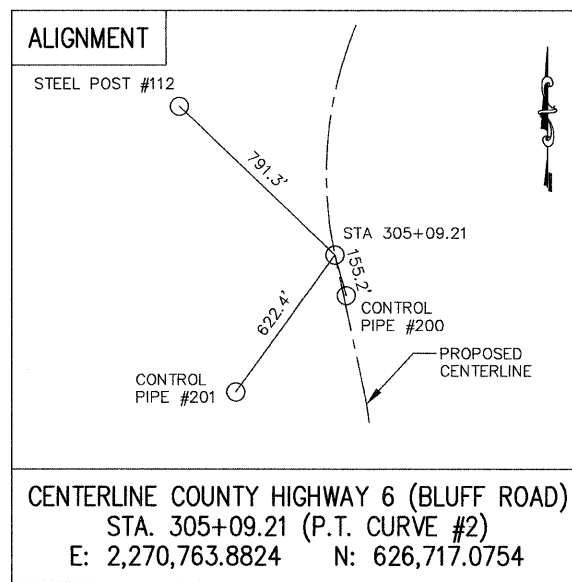
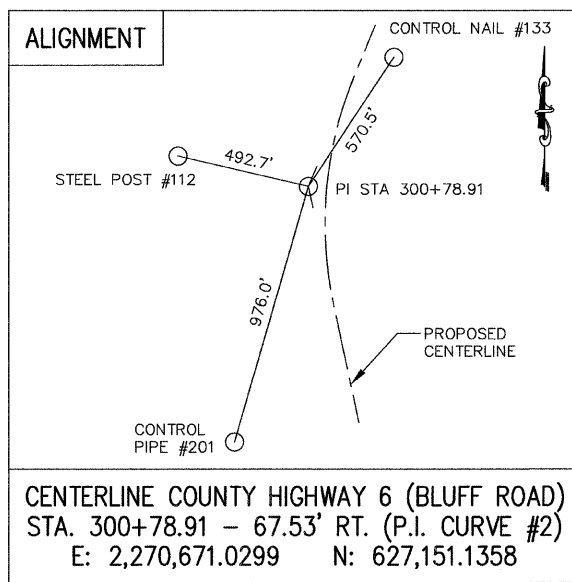
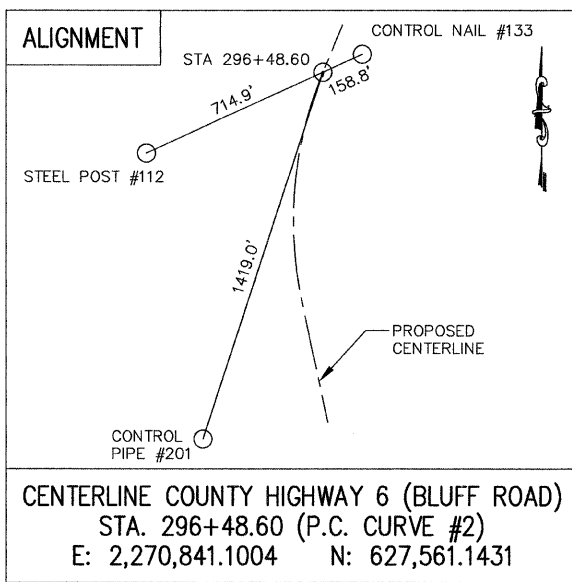
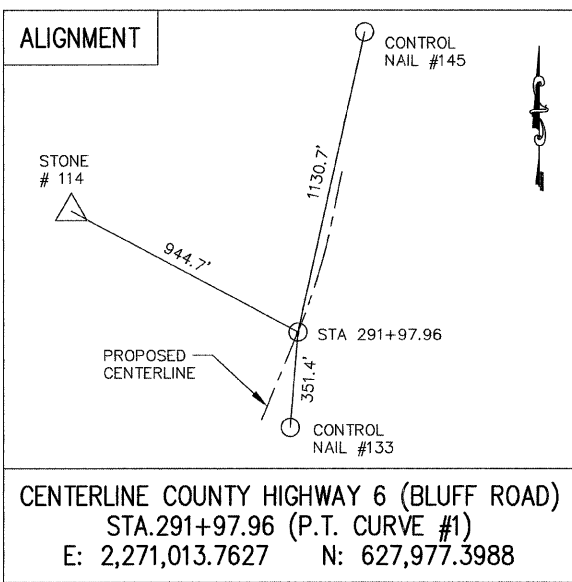
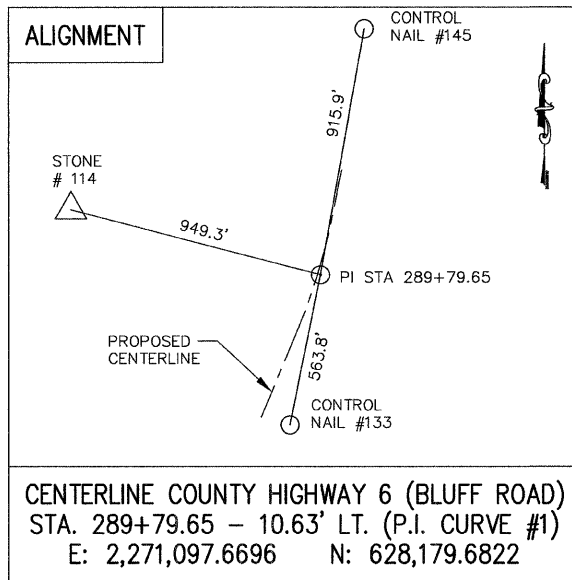
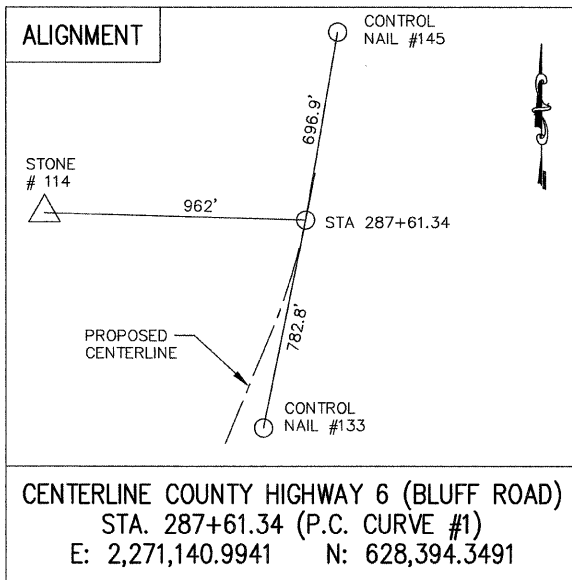
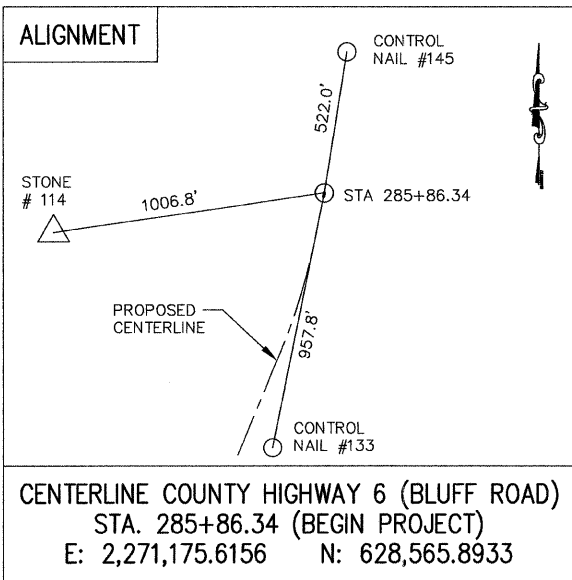
**REFERENCE TIES AND BENCHMARKS**

**BLUFF ROAD (CTY. HWY. 6)  
BRIDGE REPLACEMENT  
OVER FOUNTAIN CREEK  
MONROE COUNTY, IL**

TITLE: \_\_\_\_\_  
PROJECT: \_\_\_\_\_

| REV. | DATE | DESCRIPTION |
|------|------|-------------|
| △    |      |             |
| △    |      |             |
| △    |      |             |

|                                                        |                                             |
|--------------------------------------------------------|---------------------------------------------|
| DRAWN BY: KBF/JWS                                      | SHEET                                       |
| DESIGNED BY: BJK                                       | 12                                          |
| CHECKED BY: SJK                                        | OF 87 SHEETS                                |
| APPROVED BY: SJK                                       | PROJECT DESCRIPTION                         |
| PROJECT NUMBER: 116-040125                             | BLUFF RD. BRIDGE OVER FOUNTAIN CRK.         |
| <input type="checkbox"/> ISSUED FOR REVIEW             | <input type="checkbox"/> ISSUED FOR BIDDING |
| <input checked="" type="checkbox"/> ISSUED FOR CONSTR. | <input type="checkbox"/> RECORD DRAWING     |



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|------------------------------|----------------|----------|
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| FEDERAL AID PROJECT          |                | ILLINOIS |
| IDOT JOB NO. BR-RS-1857(121) |                |          |
| IDOT CONTRACT NO. 97323      |                |          |

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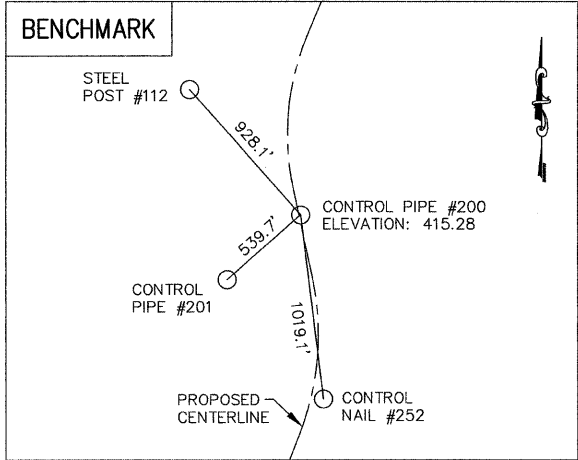
BLUFF ROAD (CTY. HWY. 6)  
BRIDGE REPLACEMENT  
OVER FOUNTAIN CREEK  
MONROE COUNTY, IL

TITLE

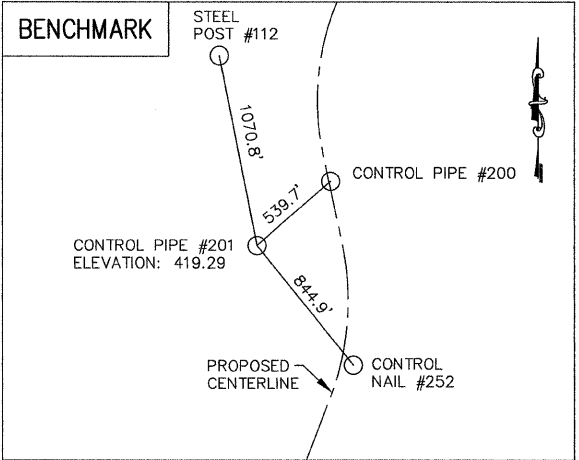
PROJECT

| REV | DATE | DESCRIPTION |
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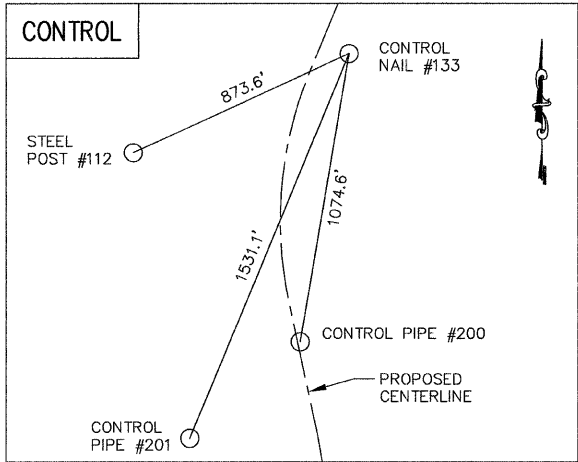
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| DESIGNED BY: BJG                                       | 13                                          |
| CHECKED BY: SJK                                        | OF 67 SHEETS                                |
| APPROVED BY: SJK                                       | PROJECT DESCRIPTION                         |
| PROJECT NUMBER: 116-040125                             | BLUFF RD. BRIDGE<br>OVER FOUNTAIN CRK.      |
| <input type="checkbox"/> ISSUED FOR REVIEW             | <input type="checkbox"/> ISSUED FOR BIDDING |
| <input checked="" type="checkbox"/> ISSUED FOR CONSTR. | <input type="checkbox"/> RECORD DRAWING     |



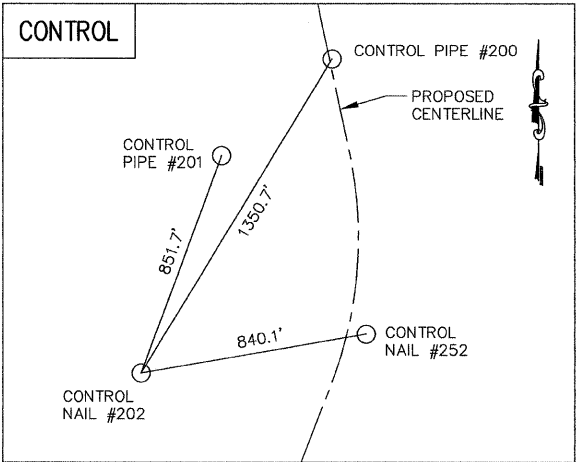
COUNTY HIGHWAY 6 (BLUFF ROAD)  
STA. 306+64.10 - 9.60' LT.  
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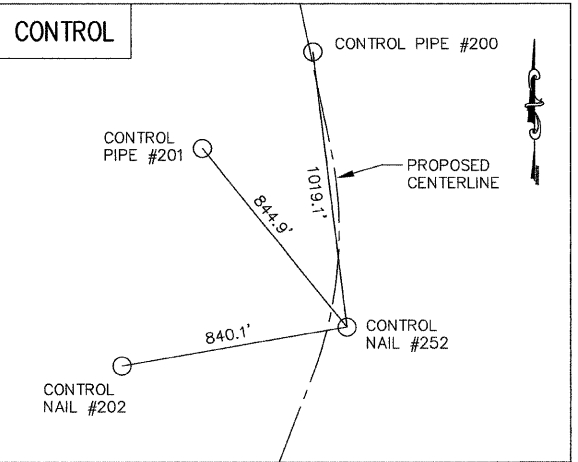
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STA. 309+26.00 - 462.28' RT.  
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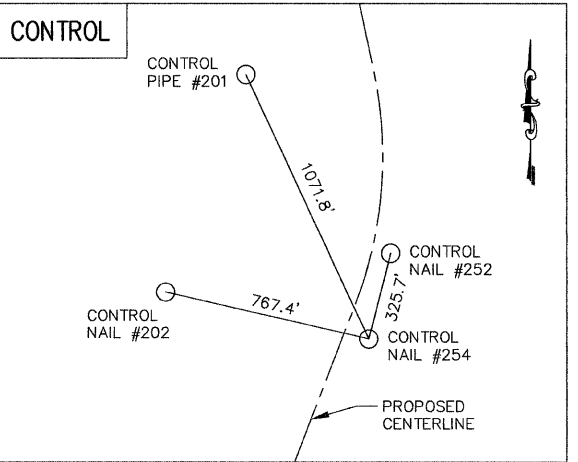
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STA. 295+32.33 - 108.14' LT.  
E: 2270985.5393 N: 627627.1035



COUNTY HIGHWAY 6 (BLUFF ROAD)  
STA. 320+92.03 - 667.64' RT.  
E: 2270102.7481 N: 625414.2559



COUNTY HIGHWAY 6 (BLUFF ROAD)  
STA. 316+70.79 - 69.34' LT.  
E: 2270930.7558 N: 625556.2319



COUNTY HIGHWAY 6 (BLUFF ROAD)  
STA. 319+85.21 - 92.29' LT.  
E: 2270850.2630 N: 625240.6672

|                     |                 |          |
|---------------------|-----------------|----------|
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| IDOT JOB NO.        | BR-RS-1857(121) |          |
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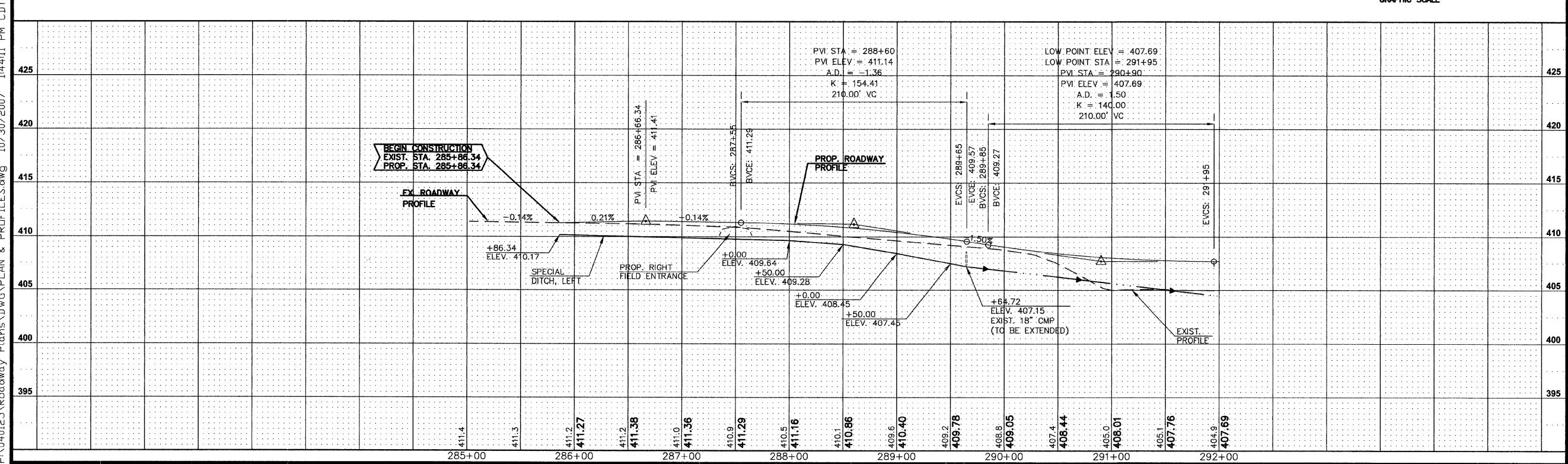
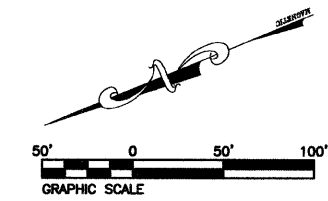
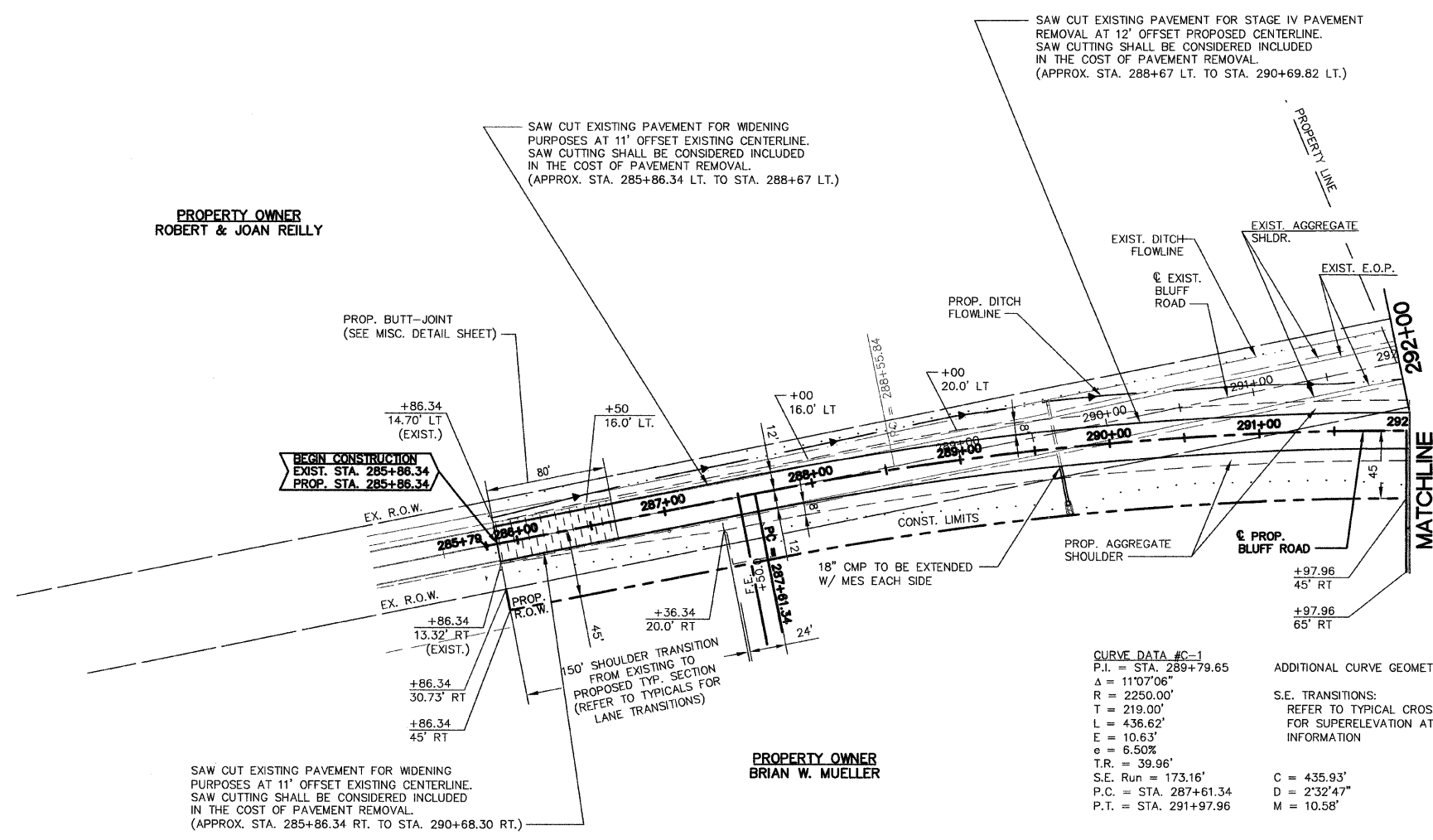
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WATERLOO, ILLINOIS 62298  
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FAX (618) 939-3938  
waterloo@twm-inc.com

| PROFESSIONAL REGISTRATIONS          | LICENSE NO. |
|-------------------------------------|-------------|
| ILLINOIS PROFESSIONAL DESIGN FIRM   | 184-001220  |
| PROFESSIONAL ENGINEERING CORP.      | 62-035370   |
| PROFESSIONAL STRUCTURAL ENGR. CORP. | 81-005202   |
| ILLINOIS PROF. LAND SURVEYING CORP. | 048-000029  |
| MISSOURI PROFESSIONAL ENGR. CORP.   | NC 001528   |
| MISSOURI LAND SURVEYING CORP.       | NC 000346   |

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**FINAL**

Signature: \_\_\_\_\_  
Date: \_\_\_\_\_  
Expiration Date: \_\_\_\_\_  
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**PLAN AND PROFILE**  
**STA. 285+86.34 TO STA. 292+00**  
**BLUFF ROAD (CTY. HWY. 6)**  
**BLUFF ROAD (CTY. HWY. 6)**  
**BRIDGE REPLACEMENT**  
**OVER FOUNTAIN CREEK**  
**MONROE COUNTY, IL**

| REV. | DATE | DESCRIPTION |
|------|------|-------------|
|      |      |             |
|      |      |             |
|      |      |             |

|                                                        |                                             |
|--------------------------------------------------------|---------------------------------------------|
| DRAWN BY: KBF/JWS                                      | SHEET 14                                    |
| DESIGNED BY: BJC                                       | OF 67 SHEETS                                |
| CHECKED BY: SJK                                        |                                             |
| APPROVED BY: SJK                                       |                                             |
| PROJECT DESCRIPTION: BLUFF RD. BRIDGE                  |                                             |
| PROJECT NUMBER: T16-040125                             |                                             |
| <input checked="" type="checkbox"/> ISSUED FOR REVIEW  | <input type="checkbox"/> ISSUED FOR BIDDING |
| <input checked="" type="checkbox"/> ISSUED FOR CONSTR. | <input type="checkbox"/> RECORD DRAWING     |

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| FIS ROUTE                    | IDOT SECTION   | COUNTY   |
|------------------------------|----------------|----------|
| 1857                         | 04-00071-00-BR | MONROE   |
| FEDERAL AID PROJECT          |                | ILLINOIS |
| IDOT JOB NO. BR-RS-1857(121) |                |          |
| IDOT CONTRACT NO. 97323      |                |          |

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| PROFESSIONAL REGISTRATIONS          | LICENSE NO. |
|-------------------------------------|-------------|
| ILLINOIS PROFESSIONAL DESIGN FIRM   | 184-00120   |
| PROFESSIONAL ENGINEERING CORP.      | 62-035370   |
| PROFESSIONAL STRUCTURAL ENGR. CORP. | 81-005202   |
| ILLINOIS PROF. LAND SURVEYING CORP. | 048-000029  |
| MISSOURI PROFESSIONAL ENGR. CORP.   | NC 001528   |
| MISSOURI LAND SURVEYING CORP.       | NC 000346   |

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 Signature Date: \_\_\_\_\_  
 Expiration Date: \_\_\_\_\_

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 engineering or survey project.

**TITLE**  
 PLAN AND PROFILE  
 STA. 292+00 TO STA. 300+00  
 BLUFF ROAD (CTY. HWY. 6)

**PROJECT**  
 BLUFF ROAD (CTY. HWY. 6)  
 BRIDGE REPLACEMENT  
 OVER FOUNTAIN CREEK  
 MONROE COUNTY, IL

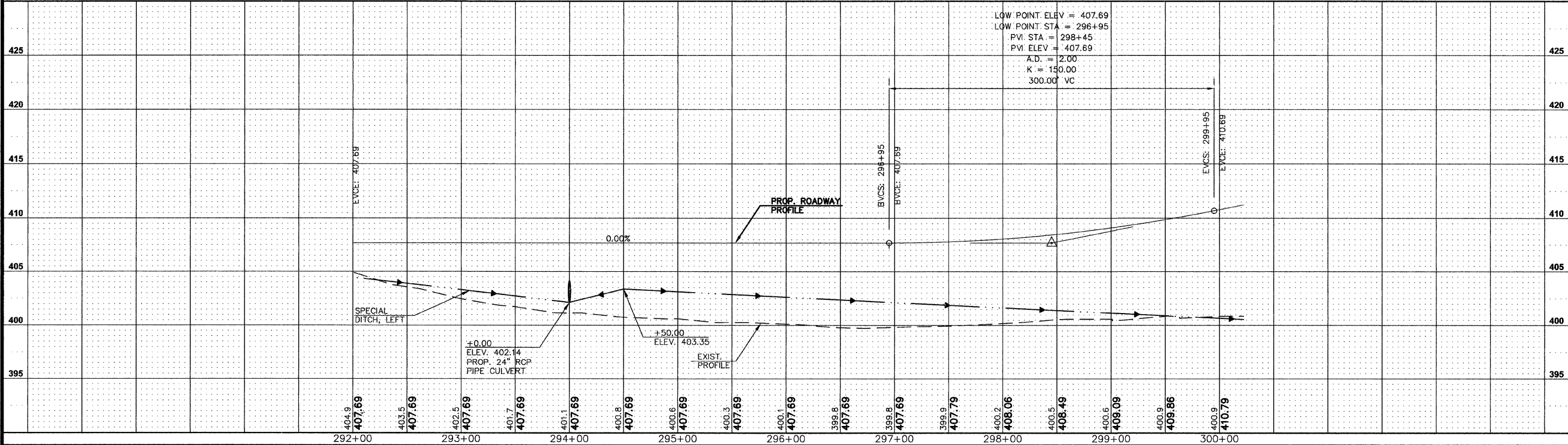
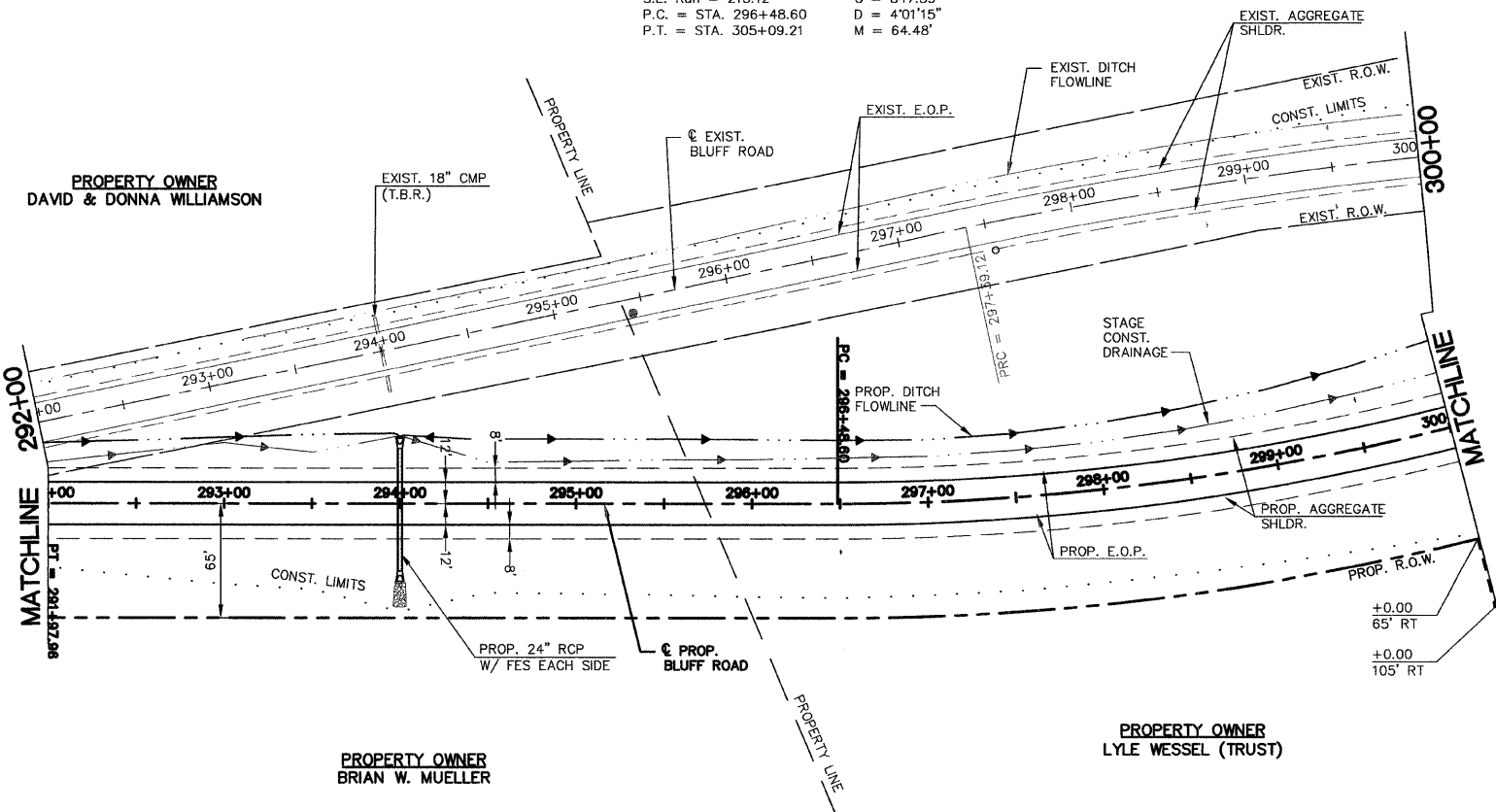
| REV. | DATE | DESCRIPTION |
|------|------|-------------|
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|      |      |             |

|                                                        |                                             |
|--------------------------------------------------------|---------------------------------------------|
| DRAWN BY: KBF/JWS                                      | SHEET 15                                    |
| DESIGNED BY: BJB                                       | OF 67 SHEETS                                |
| CHECKED BY: SJK                                        |                                             |
| APPROVED BY: SJK                                       | PROJECT DESCRIPTION                         |
| PROJECT NUMBER: 116-040125                             | BLUFF RD. BRIDGE OVER FOUNTAIN CRK.         |
| <input type="checkbox"/> ISSUED FOR REVIEW             | <input type="checkbox"/> ISSUED FOR BIDDING |
| <input checked="" type="checkbox"/> ISSUED FOR CONSTR. | <input type="checkbox"/> RECORD DRAWING     |

**CURVE DATA #C-2**  
 P.I. = STA. 300+78.90  
 $\Delta = 34^{\circ}36'11''$   
 $R = 1425.00'$   
 $T = 443.88'$   
 $L = 860.61'$   
 $E = 67.53'$   
 $e = 8.00\%$   
 $T.R. = 39.96'$   
 $S.E. Run = 213.12'$   
 $P.C. = STA. 296+48.60$   
 $P.T. = STA. 305+09.21$

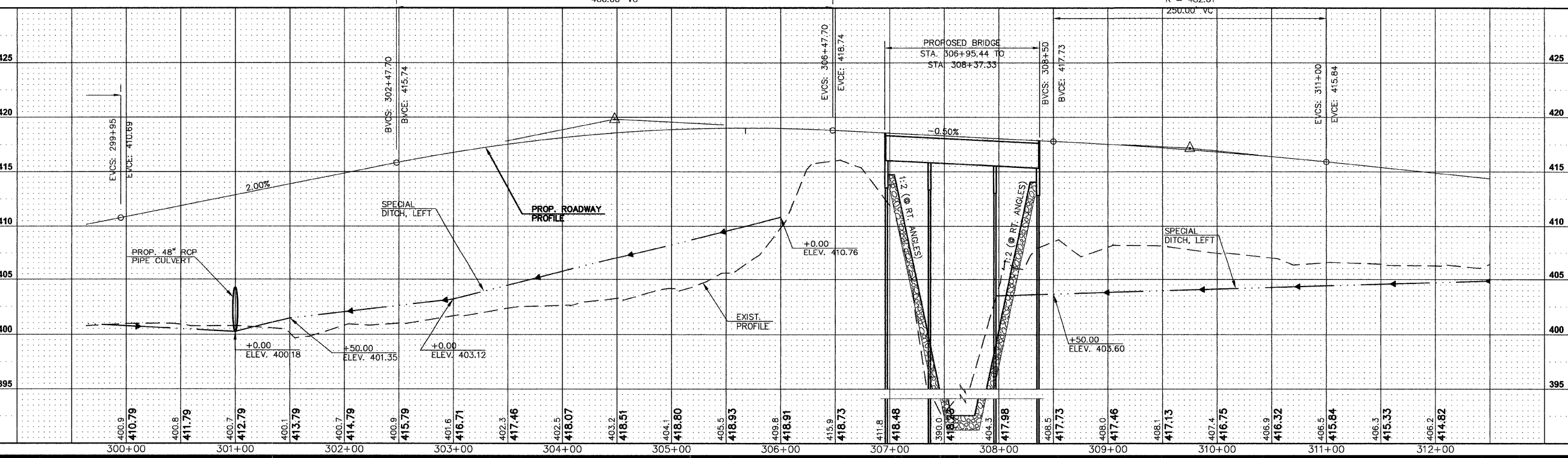
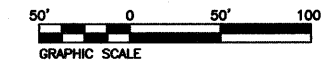
**ADDITIONAL CURVE GEOMETRICS:**  
  
**S.E. TRANSITIONS:**  
 REFER TO TYPICAL CROSS SECTIONS  
 FOR SUPERELEVATION ATTAINMENT  
 INFORMATION

**PROPERTY OWNER**  
 PHYLLIS E. THOMAS



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| FIS ROUTE           | IDOT SECTION    | COUNTY   |
|---------------------|-----------------|----------|
| 1857                | 04-00071-00-BR  | MONROE   |
| FEDERAL AID PROJECT |                 | ILLINOIS |
| IDOT JOB NO.        | BR-RS-1857(121) |          |
| IDOT CONTRACT NO.   | 97323           |          |

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edwardsville@twm-inc.com
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WATERLOO, ILLINOIS 62298  
TEL (618) 939-5050  
FAX (618) 939-3938  
waterloo@twm-inc.com
- PROFESSIONAL REGISTRATIONS  
ILLINOIS PROFESSIONAL DESIGN FIRM 184-001220  
PROFESSIONAL ENGINEERING CORP. 62-035370  
PROFESSIONAL STRUCTURAL ENGR. CORP. 81-005202  
ILLINOIS PROF. LAND SURVEYING CORP. 048-000029  
MISSOURI PROFESSIONAL ENGR. CORP. NC 001528  
MISSOURI LAND SURVEYING CORP. NC 000346

**FINAL**

Signature: \_\_\_\_\_  
Signature Date: \_\_\_\_\_  
Expiration Date: \_\_\_\_\_

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**PLAN AND PROFILE**  
STA. 300+00 TO STA. 312+00  
BLUFF ROAD (CTY. HWY. 6)

**PROJECT**  
BLUFF ROAD (CTY. HWY. 6)  
BRIDGE REPLACEMENT  
OVER FOUNTAIN CREEK  
MONROE COUNTY, IL

| REV | DATE | DESCRIPTION |
|-----|------|-------------|
|     |      |             |
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|     |      |             |

|                                       |                                       |
|---------------------------------------|---------------------------------------|
| DRAWN BY: KBF/JWS                     | SHEET 16                              |
| DESIGNED BY: BJB                      | OF 67 SHEETS                          |
| CHECKED BY: SJK                       | PROJECT DESCRIPTION: BLUFF RD. BRIDGE |
| APPROVED BY: SJK                      | PROJECT NUMBER: 116-040125            |
| PROJECT DESCRIPTION: BLUFF RD. BRIDGE |                                       |
| PROJECT NUMBER: 116-040125            |                                       |
| ISSUED FOR REVIEW                     |                                       |
| ISSUED FOR BIDDING                    |                                       |
| ISSUED FOR CONSTR.                    |                                       |
| RECORD DRAWING                        |                                       |

| FIS ROUTE                    | IDOT SECTION   | COUNTY |
|------------------------------|----------------|--------|
| 1857                         | 04-00071-00-BR | MONROE |
| FEDERAL AID PROJECT          |                |        |
| ILLINOIS                     |                |        |
| IDOT JOB NO. BR-RS-1857(121) |                |        |
| IDOT CONTRACT NO. 97323      |                |        |

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FAX (618) 939-3938  
waterloo@twm-inc.com

| PROFESSIONAL REGISTRATIONS          | LICENSE NO. |
|-------------------------------------|-------------|
| ILLINOIS PROFESSIONAL DESIGN FIRM   | 184-001220  |
| PROFESSIONAL ENGINEERING CORP.      | 62-035370   |
| PROFESSIONAL STRUCTURAL ENGR. CORP. | 81-005202   |
| ILLINOIS PROF. LAND SURVEYING CORP. | 048-000229  |
| MISSOURI PROFESSIONAL ENGR. CORP.   | NC 001528   |
| MISSOURI LAND SURVEYING CORP.       | NC 000346   |

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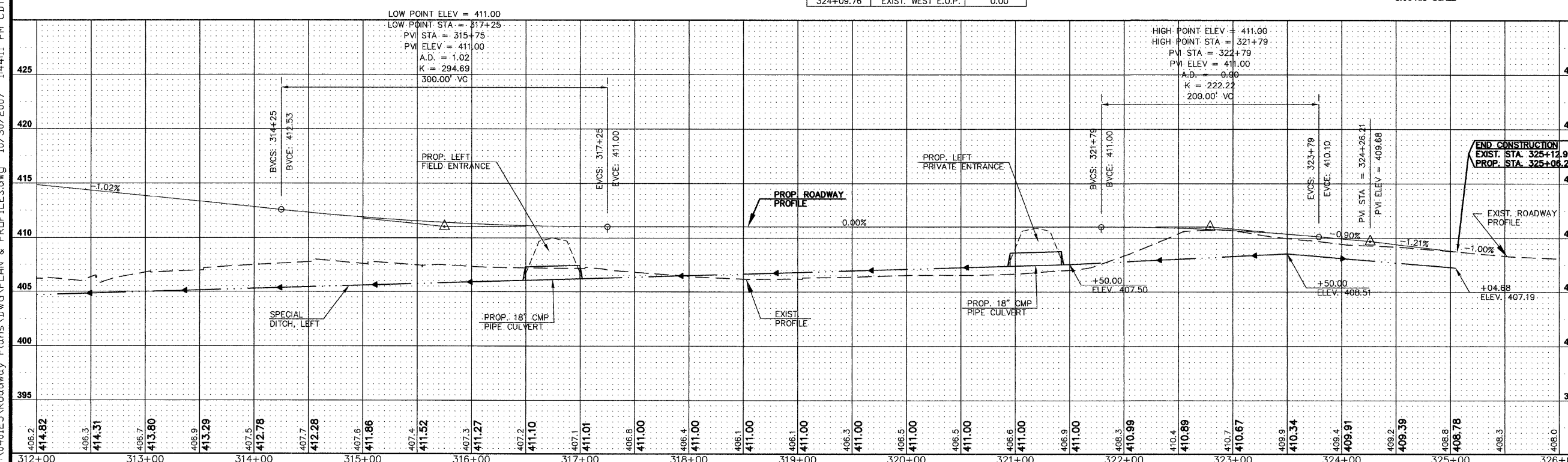
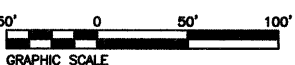
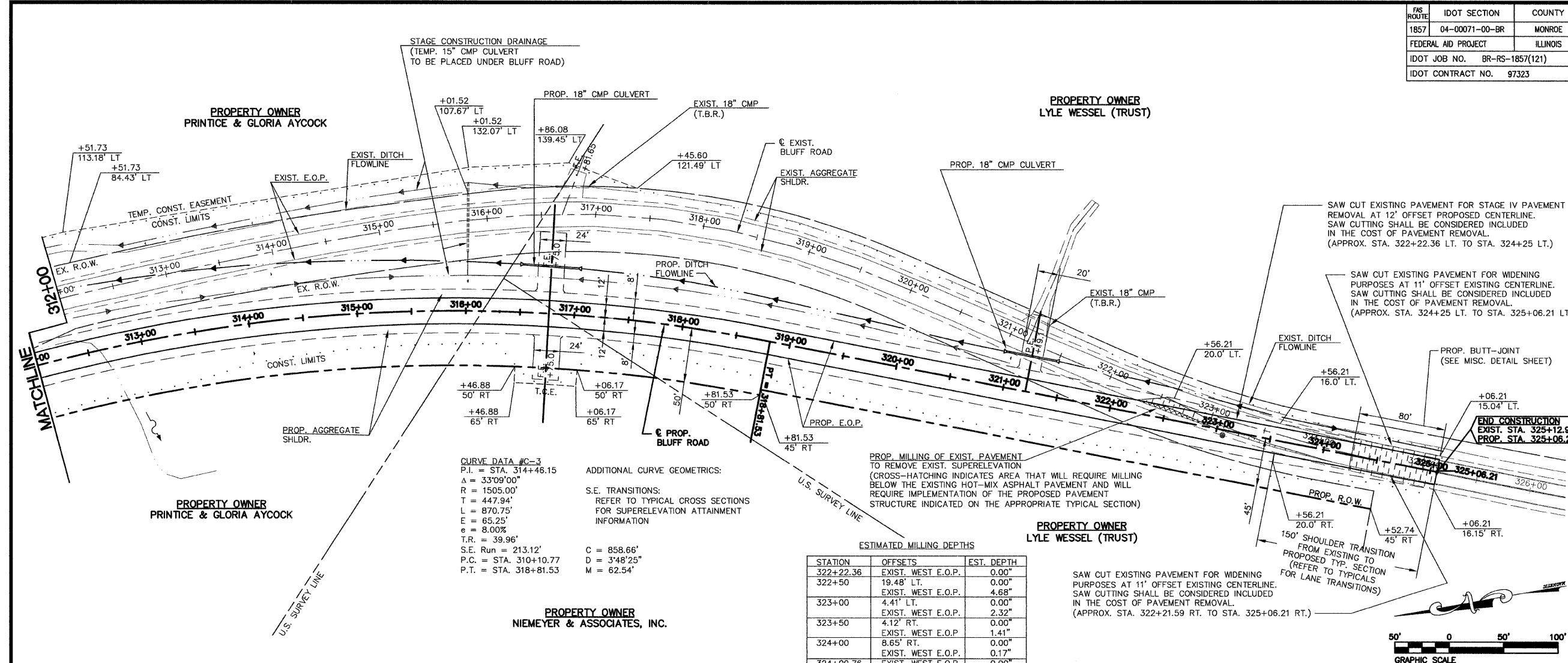
Signature: \_\_\_\_\_  
Expiration Date: \_\_\_\_\_

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**PLAN AND PROFILE**  
STA. 312+00 TO STA. 325+06.21  
BLUFF ROAD (CTY. HWY. 6)  
PROJECT: BLUFF ROAD (CTY. HWY. 6)  
BRIDGE REPLACEMENT  
OVER FOUNTAIN CREEK  
MONROE COUNTY, IL

| REV | DATE | DESCRIPTION |
|-----|------|-------------|
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|                                                        |                                             |
|--------------------------------------------------------|---------------------------------------------|
| DRAWN BY: KBF/JWS                                      | SHEET 17                                    |
| DESIGNED BY: BJK                                       | OF 67 SHEETS                                |
| CHECKED BY: SJK                                        | PROJECT DESCRIPTION                         |
| APPROVED BY: SJK                                       | BLUFF RD. BRIDGE                            |
| PROJECT NUMBER: 16-040125                              | OVER FOUNTAIN CRK.                          |
| <input type="checkbox"/> ISSUED FOR REVIEW             | <input type="checkbox"/> ISSUED FOR BIDDING |
| <input checked="" type="checkbox"/> ISSUED FOR CONSTR. | <input type="checkbox"/> RECORD DRAWING     |



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|                     |                 |          |
|---------------------|-----------------|----------|
| FAS ROUTE           | IDOT SECTION    | COUNTY   |
| 1857                | 04-00071-00-BR  | MONROE   |
| FEDERAL AID PROJECT |                 | ILLINOIS |
| IDOT JOB NO.        | BR-RS-1857(121) |          |
| IDOT CONTRACT NO.   | 97323           |          |

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FAX (618) 939-3938  
waterloo@twm-inc.com

| PROFESSIONAL REGISTRATIONS          | LICENSE NO. |
|-------------------------------------|-------------|
| ILLINOIS PROFESSIONAL DESIGN FIRM   | 184-001220  |
| PROFESSIONAL ENGINEERING CORP.      | 62-035370   |
| PROFESSIONAL STRUCTURAL ENGR. CORP. | 81-005202   |
| ILLINOIS PROF. LAND SURVEYING CORP. | 048-000029  |
| MISSOURI PROFESSIONAL ENGR. CORP.   | NC 001528   |
| MISSOURI LAND SURVEYING CORP.       | NC 000346   |

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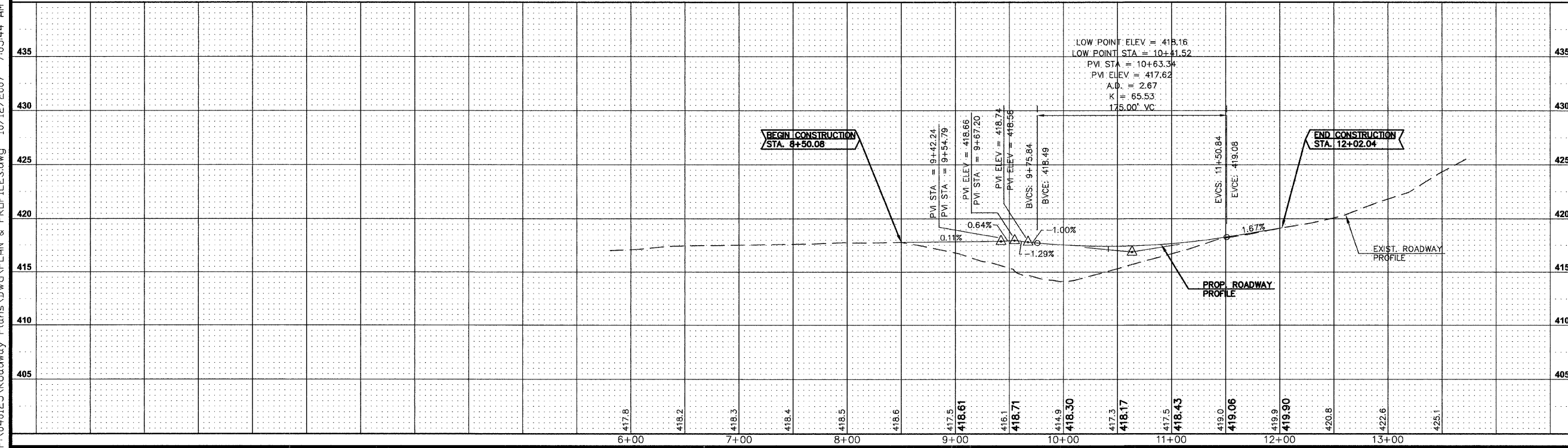
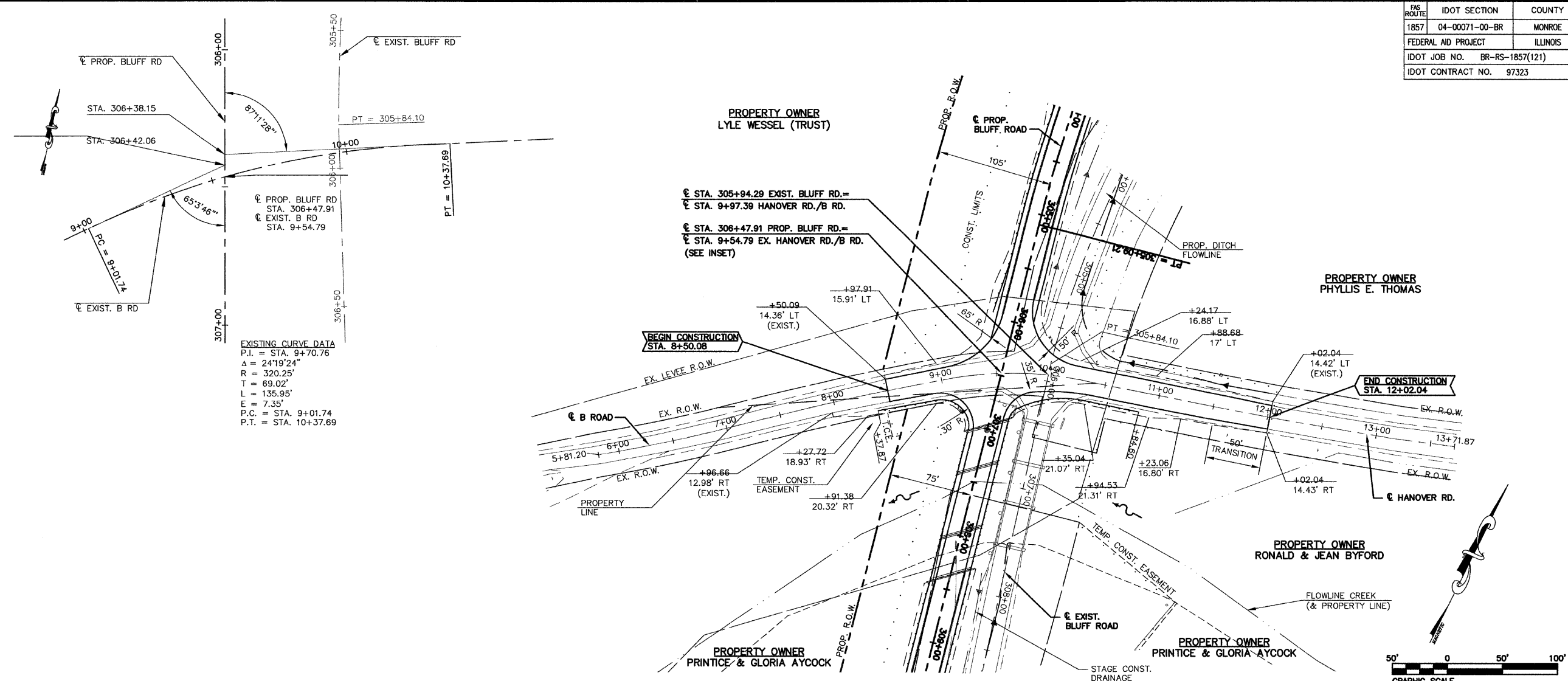
Signature: \_\_\_\_\_  
Signature Date: \_\_\_\_\_  
Expiration Date: \_\_\_\_\_

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TITLE  
**PLAN AND PROFILE**  
**STA. 8+50.08 TO STA. 12+02.04**  
**HANOVER ROAD AND 'B' ROAD**  
  
PROJECT  
**BLUFF ROAD (CTY. HWY. 6)**  
**BRIDGE REPLACEMENT**  
**OVER FOUNTAIN CREEK**  
**MONROE COUNTY, IL**

| REV. | DATE | DESCRIPTION |
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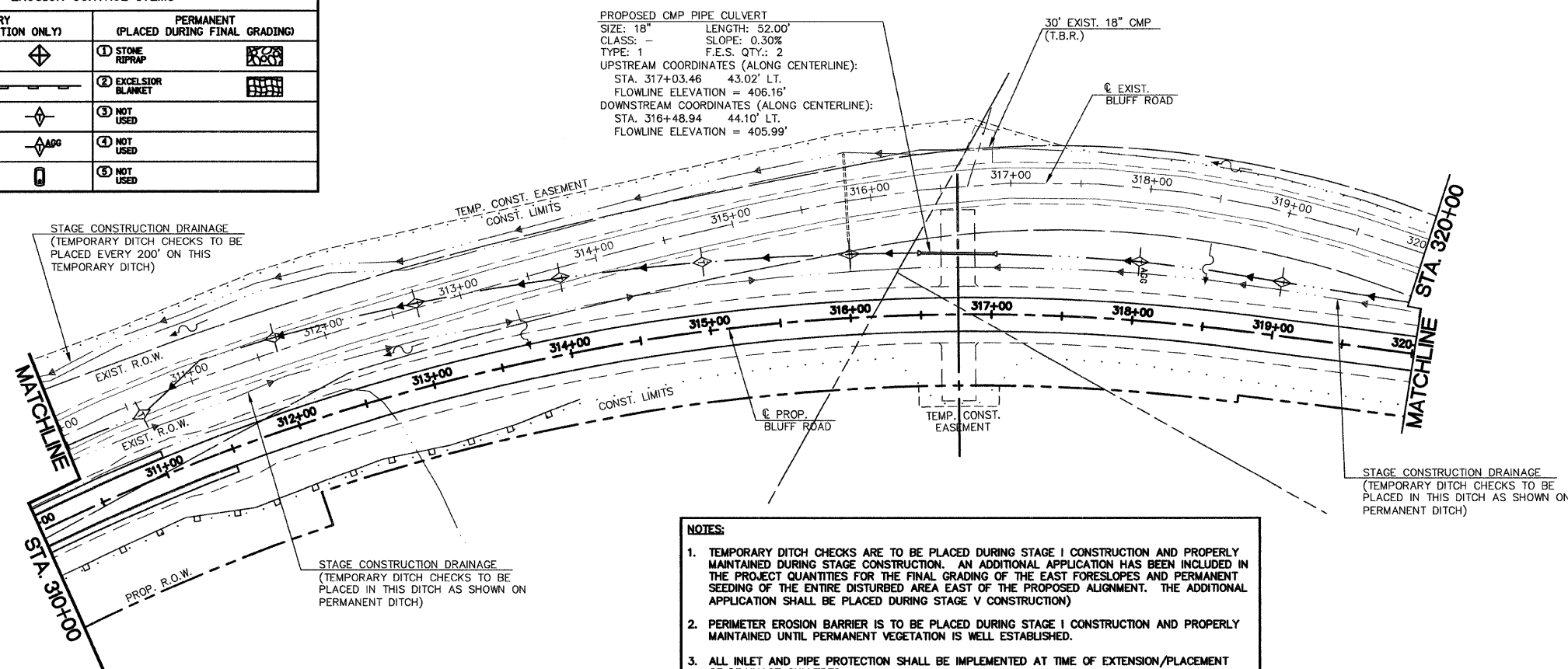
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|--------------------------------------------------------|---------------------------------------------|
| DRAWN BY: KBF/JWS                                      | SHEET 18                                    |
| DESIGNED BY: BJG                                       | OF 67 SHEETS                                |
| CHECKED BY: SJK                                        |                                             |
| APPROVED BY: SJK                                       | PROJECT DESCRIPTION                         |
| PROJECT NUMBER: 16-040125                              | BLUFF RD. BRIDGE OVER FOUNTAIN CRK.         |
| <input type="checkbox"/> ISSUED FOR REVIEW             | <input type="checkbox"/> ISSUED FOR BIDDING |
| <input checked="" type="checkbox"/> ISSUED FOR CONSTR. | <input type="checkbox"/> RECORD DRAWING     |







| EROSION CONTROL ITEMS                   |                                                                                       |                                                                                                           |
|-----------------------------------------|---------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------|
| TEMPORARY<br>(DURING CONSTRUCTION ONLY) |                                                                                       | PERMANENT<br>(PLACED DURING FINAL GRADING)                                                                |
| ① INLET & PIPE PROTECTION               |      | ① STONE RIPRAP<br>       |
| ② PERIMETER EROSION BARRIER             |      | ② EXCEL SIOR BLANKET<br> |
| ③ DITCH CHECK                           |      | ③ NOT USED                                                                                                |
| ④ DITCH CHECK (AGGREGATE)               |  AGG | ④ NOT USED                                                                                                |
| ⑤ SEDIMENT BASIN                        |      | ⑤ NOT USED                                                                                                |



|                              |                |          |
|------------------------------|----------------|----------|
| FAS<br>ROUTE                 | IDOT SECTION   | COUNTY   |
| 1857                         | 04-00071-00-BR | MONROE   |
| FEDERAL AID PROJECT          |                | ILLINOIS |
| IDOT JOB NO. BR-RS-1857(121) |                |          |
| IDOT CONTRACT NO. 97323      |                |          |

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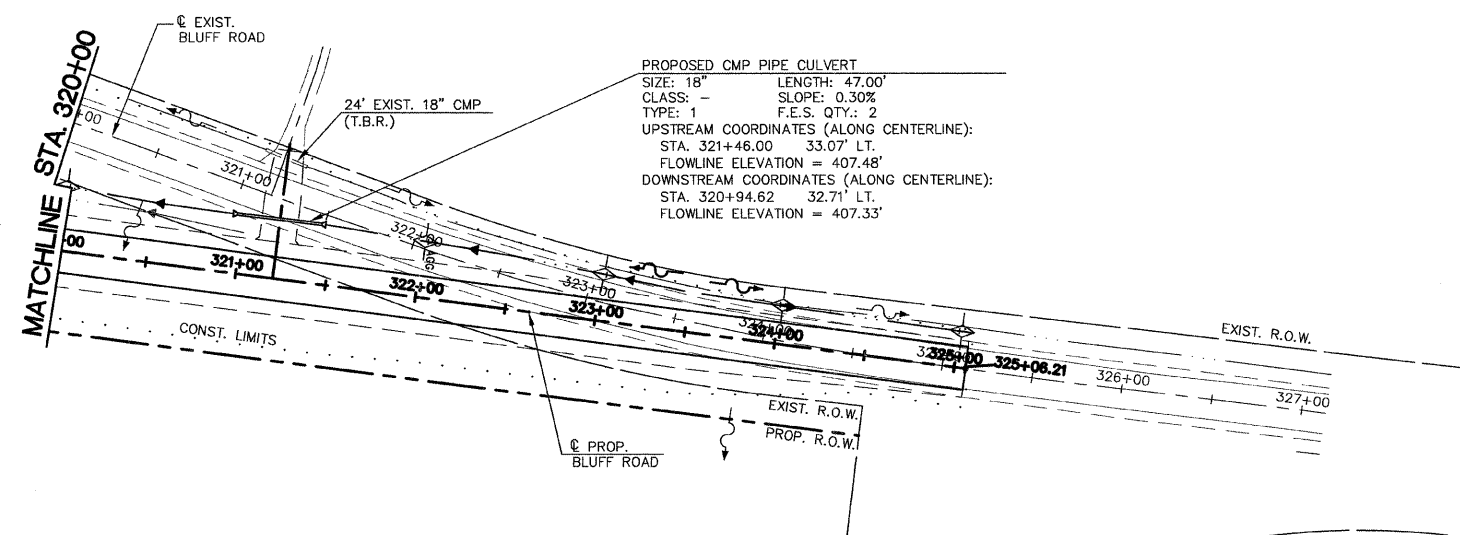
| <u>PROFESSIONAL REGISTRATIONS</u>   | <u>LICENSE NO.</u> |
|-------------------------------------|--------------------|
| ILLINOIS PROFESSIONAL DESIGN FIRM   | 184-001220         |
| PROFESSIONAL ENGINEERING CORP.      | 62-035570          |
| PROFESSIONAL STRUCTURAL ENGR. CORP. | 81-005022          |
| ILLINOIS PROF. LAND SURVEYING CORP. | 048-000029         |
| MISSOURI PROFESSIONAL ENGR. CORP.   | NC 001528          |
| MISSOURI LAND SURVEYING CORP.       | NC 000346          |

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Signature: \_\_\_\_\_  
Signature Date: \_\_\_\_\_  
Expiration Date: \_\_\_\_\_

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**TITLE:** PROPOSED DRAINAGE  
AND EROSION CONTROL PLAN  
BLUFF ROAD (CTY. HWY. 6)

**PROJECT:** BLUFF ROAD (CTY. HWY. 6)  
BRIDGE REPLACEMENT  
OVER FOUNTAIN CREEK  
MONROE COUNTY, IL

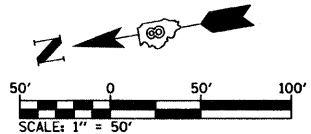
| REV. | DATE | DESCRIPTION |
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|------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------|
| DRAWN BY: KBF/JWS                                                                              | SHEET<br><div style="font-size: 48pt; text-align: center;">20</div> OF 67 SHEETS |
| DESIGNED BY: BJG                                                                               |                                                                                  |
| CHECKED BY: SJK                                                                                |                                                                                  |
| APPROVED BY: SJK                                                                               |                                                                                  |
| PROJECT NUMBER: T16-040125                                                                     |                                                                                  |
| PROJECT DESCRIPTION<br>BLUFF RD. BRIDGE<br>OVER FOUNTAIN CRK                                   |                                                                                  |
| <input type="checkbox"/> ISSUED FOR REVIEW <input type="checkbox"/> ISSUED FOR BIDDING         |                                                                                  |
| <input checked="" type="checkbox"/> ISSUED FOR CONSTR. <input type="checkbox"/> RECORD DRAWING |                                                                                  |

COORDINATES AND BEARINGS SHOWN HEREON ARE BASED ON  
NAD 83 DATUM, GRID NORTH, ILLINOIS STATE PLANE WEST.

PART OF THE W. 1/2 OF SECTION 6, T2S, R10W, OF THE 3RD PM, MONROE COUNTY, ILLINOIS

| FAS ROUTE                    | IDOT SECTION   | COUNTY   |
|------------------------------|----------------|----------|
| 1857                         | 04-00071-00-BR | MONROE   |
| FEDERAL AID PROJECT          |                | ILLINOIS |
| IDOT JOB NO. BR-RS-1857(121) |                |          |
| IDOT CONTRACT NO. 97323      |                |          |



THOUVENOT,  
WADE &  
MOERCHEN, INC.  
ENGINEERS ♦ SURVEYORS ♦ PLANNERS



- ☒ **CORPORATE OFFICE**  
4940 OLD COLLINSVILLE RD.  
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TEL (618) 624-4488  
FAX (618) 624-6688  
corp@twm-inc.com
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10158 CENTURY DRIVE  
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WATERLOO, ILLINOIS 62298  
TEL (618) 939-5050  
FAX (618) 939-3938  
waterloo@twm-inc.com

| PROFESSIONAL REGISTRATIONS          | LICENSE NO. |
|-------------------------------------|-------------|
| ILLINOIS PROFESSIONAL DESIGN FIRM   | 184-09120   |
| PROFESSIONAL ENGINEERING CORP.      | 62-03370    |
| PROFESSIONAL STRUCTURAL ENGR. CORP. | 81-00502    |
| ILLINOIS PROF. LAND SURVEYING CORP. | 048-00029   |
| MISSOURI PROFESSIONAL ENGR. CORP.   | NC 001528   |
| MISSOURI LAND SURVEYING CORP.       | NC 000346   |

SEAL

FINAL

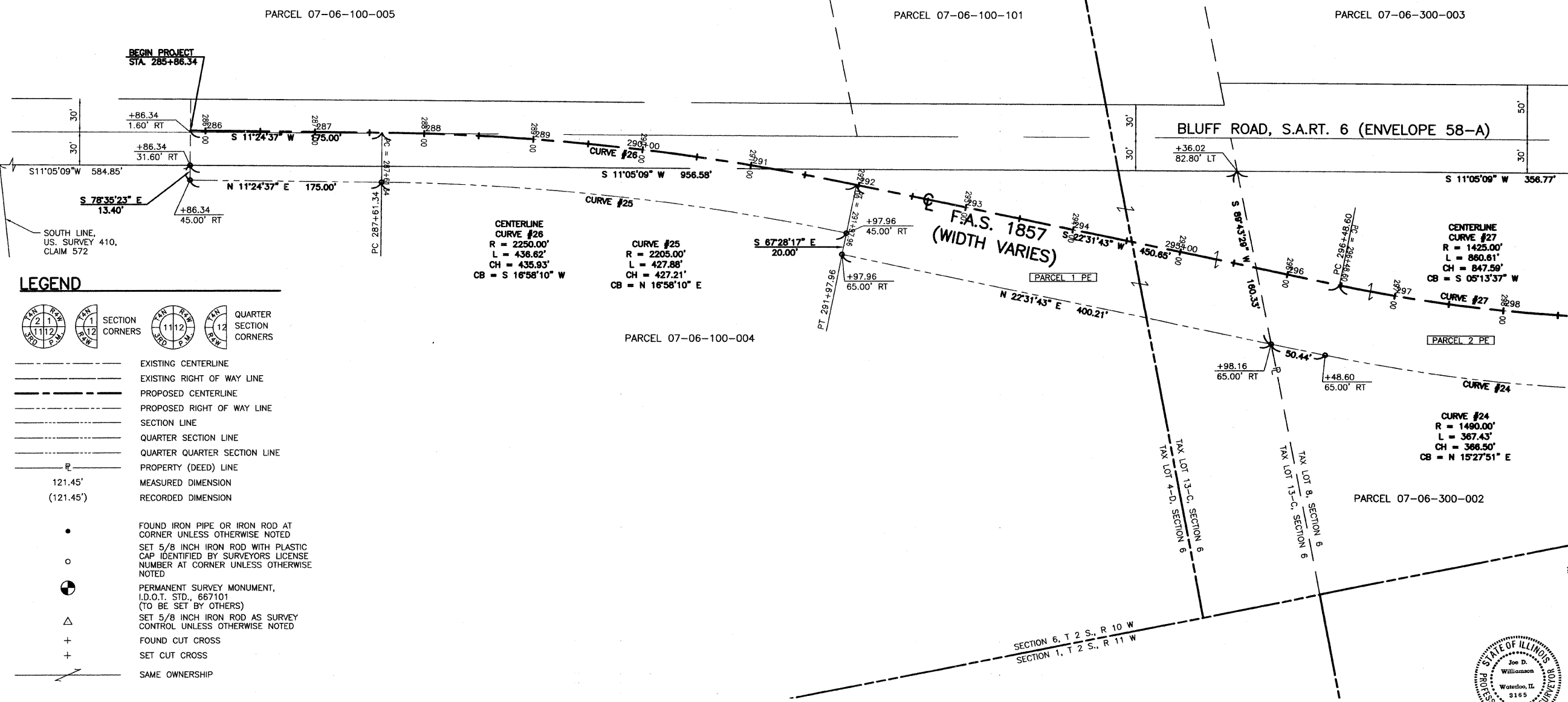
Signature: \_\_\_\_\_  
Signature Date: \_\_\_\_\_  
Expiration Date: \_\_\_\_\_  
**STATEMENT OF RESPONSIBILITY**  
I hereby confirm that the document herein to be  
authenticated by my seal is restricted to this sheet,  
and I hereby disclaim any responsibility for all other  
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documents or instruments relating to or intended to  
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engineering or survey project.

**RIGHT OF WAY PLAN/PLAT**  
**BLUFF ROAD (CTY. HWY. 6)**  
**F.A.S. 1857**

**BLUFF ROAD (CTY. HWY. 6)**  
**BRIDGE REPLACEMENT**  
**OVER FOUNTAIN CREEK**  
**MONROE COUNTY, IL**

| REV. | DATE | DESCRIPTION |
|------|------|-------------|
|      |      |             |
|      |      |             |
|      |      |             |

|                                                        |                                             |
|--------------------------------------------------------|---------------------------------------------|
| DRAWN BY: KBF/JWS                                      | SHEET 21                                    |
| DESIGNED BY: BJG                                       | OF 67 SHEETS                                |
| CHECKED BY: SJK                                        | PROJECT DESCRIPTION                         |
| APPROVED BY: SJK                                       | BLUFF RD. BRIDGE                            |
| PROJECT NUMBER: T16-040125                             | OVER FOUNTAIN CRK.                          |
| <input type="checkbox"/> ISSUED FOR REVIEW             | <input type="checkbox"/> ISSUED FOR BIDDING |
| <input checked="" type="checkbox"/> ISSUED FOR CONSTR. | <input type="checkbox"/> RECORD DRAWING     |



LEGEND



- EXISTING CENTERLINE
- EXISTING RIGHT OF WAY LINE
- PROPOSED CENTERLINE
- PROPOSED RIGHT OF WAY LINE
- SECTION LINE
- QUARTER SECTION LINE
- QUARTER QUARTER SECTION LINE
- PROPERTY (DEED) LINE
- MEASURED DIMENSION
- RECORDED DIMENSION

- FOUND IRON PIPE OR IRON ROD AT CORNER UNLESS OTHERWISE NOTED
- SET 5/8 INCH IRON ROD WITH PLASTIC CAP IDENTIFIED BY SURVEYORS LICENSE NUMBER AT CORNER UNLESS OTHERWISE NOTED
- PERMANENT SURVEY MONUMENT, I.D.O.T. STD., 667101 (TO BE SET BY OTHERS)
- SET 5/8 INCH IRON ROD AS SURVEY CONTROL UNLESS OTHERWISE NOTED
- FOUND CUT CROSS
- SET CUT CROSS
- SAME OWNERSHIP

| PARCEL NO. | OWNER                                    | TOTAL HOLDING | FEE SIMPLE ACQUISITION |                              |           |             | REMAINDER | EASEMENTS            |         | PERMANENT TAX NUMBER | PROPERTY ACQUIRED BY |
|------------|------------------------------------------|---------------|------------------------|------------------------------|-----------|-------------|-----------|----------------------|---------|----------------------|----------------------|
|            |                                          |               | GROSS ACRES            | PREVIOUSLY DEDICATED SQ. FT. | NET ACRES | NET SQ. FT. |           | PE = PERMANENT ACRES | SQ. FT. |                      |                      |
| 1 PE       | BRIAN W. MUELLER<br>DEED BK. 144, PG. 83 |               |                        |                              |           |             |           | 1.337                | 58,231  | 07-06-100-004        |                      |

STATE OF ILLINOIS )  
COUNTY OF MONROE ) SS  
I, JOE D. WILLIAMSON, AN ILLINOIS PROFESSIONAL LAND SURVEYOR, CERTIFY THAT I HAVE SURVEYED THE RIGHT OF WAY PLANS SHOWN HEREON AND THAT THIS PROFESSIONAL SERVICE CONFORMS TO THE CURRENT ILLINOIS MINIMUM STANDARDS FOR A BOUNDARY SURVEY FOR THE PROPOSED PARCEL(S).

DATED October 15, 2007  
  
JOE D. WILLIAMSON, PLS #035-003165

PART OF THE W.1/2 OF SECTION 6, T2S, R10W, OF THE 3RD PM, MONROE COUNTY, ILLINOIS

COORDINATES AND BEARINGS SHOWN HEREON ARE BASED ON  
NAD 83 DATUM, GRID NORTH, ILLINOIS STATE PLANE WEST.

PART OF THE SW 1/4 OF SECTION 6, T2S, R10W, OF THE 3RD PM, MONROE COUNTY, ILLINOIS

FIS  
ROUTE  
1857  
IDOT SECTION  
04-00071-00-BR  
COUNTY  
MONROE  
FEDERAL AID PROJECT  
ILLINOIS  
IDOT JOB NO.  
BR-RS-1857(121)  
IDOT CONTRACT NO.  
97323

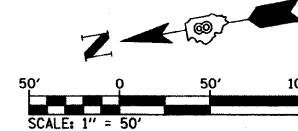
# LEGEND



○ SET 5/8 INCH IRON ROD WITH PLASTIC  
CAP IDENTIFIED BY SURVEYORS LICENSE  
NUMBER AT CORNER UNLESS OTHERWISE  
NOTED  
● PERMANENT SURVEY MONUMENT,  
I.D.O.T. STD., 667101  
(TO BE SET BY OTHERS)  
△ SET 5/8 INCH IRON ROD AS SURVEY  
CONTROL UNLESS OTHERWISE NOTED  
+ FOUND CUT CROSS  
+ SET CUT CROSS  
— SAME OWNERSHIP  
--- TEMPORARY CONSTRUCTION EASEMENT

121.45' MEASURED DIMENSION  
(121.45') RECORDED DIMENSION

• FOUND IRON PIPE OR IRON ROD AT  
CORNER UNLESS OTHERWISE NOTED



THOUVENOT,  
WADE &  
MOERCHEN, INC.  
ENGINEERS • SURVEYORS • PLANNERS



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## PROFESSIONAL REGISTRATIONS

| ILLINOIS PROFESSIONAL DESIGN FIRM   | LICENSE NO. |
|-------------------------------------|-------------|
| ILLINOIS PROFESSIONAL DESIGN FIRM   | 184-001220  |
| PROFESSIONAL ENGINEERING CORP.      | 62-035370   |
| PROFESSIONAL STRUCTURAL ENGR. CORP. | 81-005202   |
| ILLINOIS PROF. LAND SURVEYING CORP. | 048-000029  |
| MISSOURI PROFESSIONAL ENGR. CORP.   | NC 001528   |
| MISSOURI LAND SURVEYING CORP.       | NC 000346   |

SEAL

FINAL

Signature:  
Expiration Date:

## STATEMENT OF RESPONSIBILITY

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and I hereby disclaim any responsibility for all other  
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engineering or survey project.

RIGHT OF WAY PLAN/PLAT  
BLUFF ROAD (CTY. HWY. 6)  
F.A.S. 1857

BLUFF ROAD (CTY. HWY. 6)  
BRIDGE REPLACEMENT  
OVER FOUNTAIN CREEK  
MONROE COUNTY, IL

TITLE:

PROJECT:

| REV. | DATE | DESCRIPTION |
|------|------|-------------|
|      |      |             |
|      |      |             |
|      |      |             |

DRAWN BY: KBF/JWS  
DESIGNED BY: BJK  
CHECKED BY: SJK  
APPROVED BY: SJK  
PROJECT NUMBER: T16-040125  
PROJECT DESCRIPTION: BLUFF RD. BRIDGE  
OVER FOUNTAIN CRK.

ISSUED FOR REVIEW  
ISSUED FOR BIDDING  
ISSUED FOR CONSTR.  
RECORD DRAWING

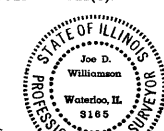
Exp. 11-30-2008

STATE OF ILLINOIS )  
COUNTY OF MONROE ) SS

I, JOE D. WILLIAMSON, AN ILLINOIS PROFESSIONAL LAND SURVEYOR, CERTIFY  
THAT I HAVE SURVEYED THE RIGHT OF WAY PLANS SHOWN HEREON AND THAT  
THIS PROFESSIONAL SERVICE CONFORMS TO THE CURRENT ILLINOIS MINIMUM  
STANDARDS FOR A BOUNDARY SURVEY FOR THE PROPOSED PARCEL(S).

DATED October 15, 2007

JOE D. WILLIAMSON, PLS #035-003165



PART OF THE SW 1/4 OF SECTION 6, T2S, R10W, OF THE 3RD PM, MONROE COUNTY, ILLINOIS

| PARCEL NO. | OWNER                                                                   | TOTAL HOLDING ACRES | FEE SIMPLE ACQUISITION |                            |           |         | REMAINDER ACRES | EASEMENTS            |                      |          |         | EASEMENT PURPOSE | PERMANENT TAX NUMBER | PROPERTY ACQUIRED BY |
|------------|-------------------------------------------------------------------------|---------------------|------------------------|----------------------------|-----------|---------|-----------------|----------------------|----------------------|----------|---------|------------------|----------------------|----------------------|
|            |                                                                         |                     | GROSS ACRES            | PREVIOUSLY DEDICATED ACRES | NET ACRES | SQ. FT. |                 | PE = PERMANENT ACRES | TE = TEMPORARY ACRES | SQ. FT.  | SQ. FT. |                  |                      |                      |
| 2 PE       | LYLE WESSEL TRUST (1/2)<br>LUANN ROY<br>LEONARD & LUANN ROY TRUST (1/2) |                     |                        |                            |           |         |                 | 4.658*               |                      | 202,904* |         |                  | 07-06-300-002        |                      |
| 2 TE       | LYLE WESSEL TRUST (1/2)<br>LUANN ROY<br>LEONARD & LUANN ROY TRUST (1/2) |                     |                        |                            |           |         |                 |                      | 0.006                | 254      |         |                  | 07-06-300-002        |                      |

\* THIS INCLUDES 0.145 ACRE OR 6,317 SQ. FT. WITHIN EXISTING B ROAD RIGHT OF WAY

## B ROAD TR 33 CURVE DATA

CURVE #6  
R = 122.11'  
L = 47.78'  
CH = 47.47'  
CB = S63°06'10"W

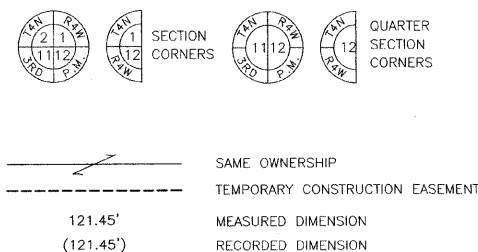
CURVE #7  
R = 142.10'  
L = 55.60'  
CH = 55.25'  
CB = S63°06'10"W

CURVE #8  
R = 162.10'  
L = 63.42'  
CH = 63.02'  
CB = N63°06'10"E

P:\040125\Roadway Plans\DWG\RIGHT\_OF-WAY PLANS.dwg 10/12/2007 7:08:57 AM CDT

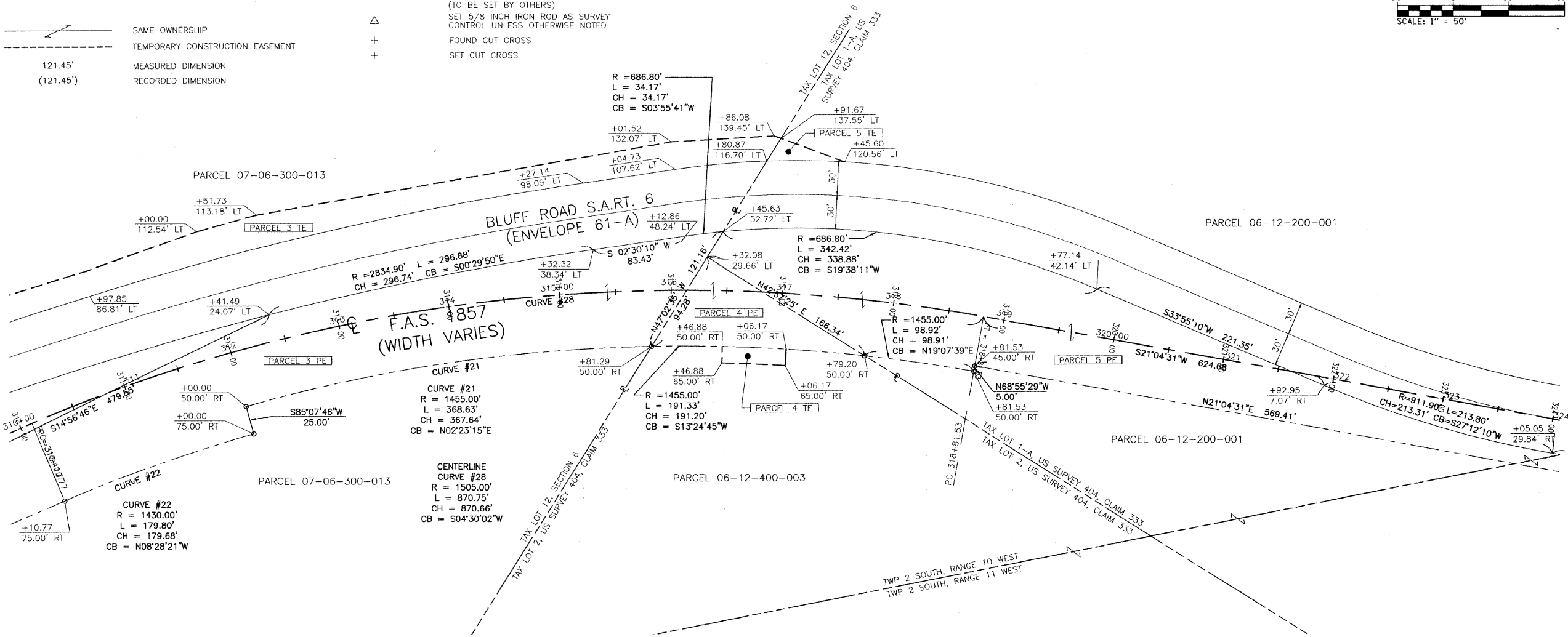
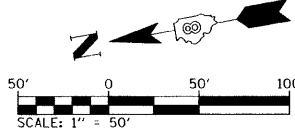
PART OF THE SW 1/4 OF SECTION 6, T2S, R10W, & PART OF US SURVEY 404, CLAIM 333, T2S, R10 & 11W OF THE 3RD PM, MONROE COUNTY, ILLINOIS

# LEGEND

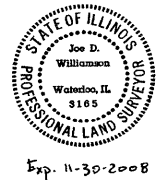


- FOUND IRON PIPE OR IRON ROD AT CORNER UNLESS OTHERWISE NOTED
- SET 5/8 INCH IRON ROD WITH PLASTIC CAP IDENTIFIED BY SURVEYORS LICENSE NUMBER AT CORNER UNLESS OTHERWISE NOTED
- PERMANENT SURVEY MONUMENT, I.D.O.T. STD., 667101 (TO BE SET BY OTHERS)
- SET 5/8 INCH IRON ROD AS SURVEY CONTROL UNLESS OTHERWISE NOTED
- FOUND CUT CROSS
- SET CUT CROSS

|                     |                 |        |
|---------------------|-----------------|--------|
| FAS ROUTE           | IDOT SECTION    | COUNTY |
| 1857                | 04-00071-00-BR  | MONROE |
| FEDERAL AID PROJECT | ILLINOIS        |        |
| IDOT JOB NO.        | BR-RS-1857(121) |        |
| IDOT CONTRACT NO.   | 97323           |        |



| PARCEL NO. | OWNER                                                      | TOTAL HOLDING ACRES | FEE SIMPLE ACQUISITION |         |                            |         |           |         | REMAINDER ACRES | EASEMENTS            |         |                      |         | EASEMENT PURPOSE | PERMANENT TAX NUMBER | PROPERTY ACQUIRED BY |
|------------|------------------------------------------------------------|---------------------|------------------------|---------|----------------------------|---------|-----------|---------|-----------------|----------------------|---------|----------------------|---------|------------------|----------------------|----------------------|
|            |                                                            |                     | GROSS ACRES            | SQ. FT. | PREVIOUSLY DEDICATED ACRES | SQ. FT. | NET ACRES | SQ. FT. |                 | PE = PERMANENT ACRES | SQ. FT. | TE = TEMPORARY ACRES | SQ. FT. |                  |                      |                      |
| 3 PE       | PRINTICE D. (BILL) AYCOCK TRUST<br>GLORIA LAYCOCK TRUST    |                     |                        |         |                            |         |           |         | 1.446           | 62,074               |         |                      |         |                  | 07-06-300-013        |                      |
| 3 TE       | PRINTICE D. (BILL) AYCOCK TRUST<br>GLORIA LAYCOCK TRUST    |                     |                        |         |                            |         |           |         |                 |                      |         | 0.738                | 32,156  |                  | 07-06-300-013        |                      |
| 4 PE       | NIEMEYER & ASSOCIATES, INC.                                |                     |                        |         |                            |         |           |         | 0.171           | 7,440                |         |                      |         |                  | 06-12-400-003        |                      |
| 4 TE       | NIEMEYER & ASSOCIATES, INC.                                |                     |                        |         |                            |         |           |         |                 |                      |         | 0.020                | 855     |                  | 06-12-400-003        |                      |
| 5 PE       | LYLE WESSEL TRUST (1/2)<br>WOODROW WESSEL, JR<br>JUDY WARD |                     |                        |         |                            |         |           |         | 1.139           | 49,605               |         |                      |         |                  | 06-12-200-001        |                      |
| 5 TE       | LYLE WESSEL TRUST (1/2)<br>WOODROW WESSEL, JR<br>JUDY WARD |                     |                        |         |                            |         |           |         |                 |                      |         | 0.015                | 675     |                  | 06-12-200-001        |                      |



STATE OF ILLINOIS )  
COUNTY OF MONROE ) SS  
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DATED October 15, 2007  
Joe Williamson, PLS #035-003165

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ENGINEERS • SURVEYORS • PLANNERS



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| PROFESSIONAL REGISTRATIONS          | LICENSE NO. |
|-------------------------------------|-------------|
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| PROFESSIONAL ENGINEERING CORP.      | 62-035370   |
| PROFESSIONAL STRUCTURAL ENGR. CORP. | 81-005202   |
| ILLINOIS PROF. LAND SURVEYING CORP. | 048-000029  |
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| MISSOURI LAND SURVEYING CORP.       | NC 000346   |

SEAL  
FINAL  
Signature: \_\_\_\_\_  
Signature Date: \_\_\_\_\_  
Expiration Date: \_\_\_\_\_  
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TITLE:  
RIGHT OF WAY PLAN/PLAT  
BLUFF ROAD (CTY. HWY. 6)  
F.A.S. 1857  
PROJECT:  
BLUFF ROAD (CTY. HWY. 6)  
BRIDGE REPLACEMENT  
OVER FOUNTAIN CREEK  
MONROE COUNTY, IL

| REV | DATE | DESCRIPTION |
|-----|------|-------------|
| △   |      |             |
| △   |      |             |
| △   |      |             |

|                                                        |                                                          |
|--------------------------------------------------------|----------------------------------------------------------|
| DRAWN BY: KBF/JWS                                      | SHEET 23                                                 |
| DESIGNED BY: BJC                                       | OF 67 SHEETS                                             |
| CHECKED BY: SJK                                        | PROJECT DESCRIPTION: BLUFF RD. BRIDGE OVER FOUNTAIN CRK. |
| APPROVED BY: SJK                                       | PROJECT NUMBER: 16-040125                                |
| <input type="checkbox"/> ISSUED FOR REVIEW             | <input type="checkbox"/> ISSUED FOR BIDDING              |
| <input checked="" type="checkbox"/> ISSUED FOR CONSTR. | <input type="checkbox"/> RECORD DRAWING                  |

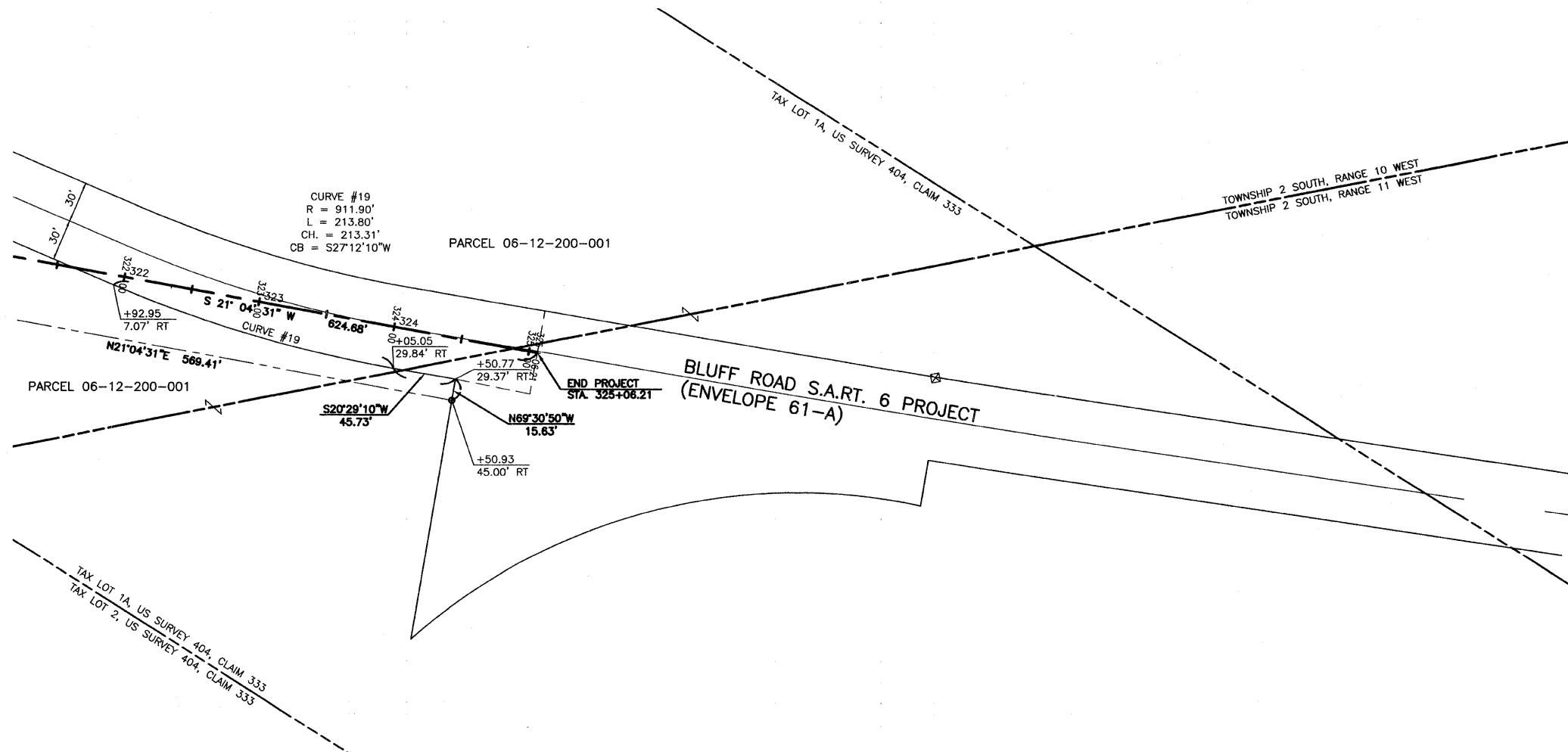
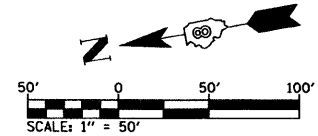
PART OF THE SW 1/4 OF SECTION 6, T2S, R10W, & PART OF US SURVEY 404, CLAIM 333, T2S, R10 & 11W OF THE 3RD PM, MONROE COUNTY, ILLINOIS



COORDINATES AND BEARINGS SHOWN HEREON ARE BASED ON  
NAD 83 DATUM, GRID NORTH, ILLINOIS STATE PLANE WEST.

PART U.S. SURVEY 404, CLAIM 333, T2S, R10 & 11 , OF THE 3RD PM, MONROE COUNTY, ILLINOIS

| FAS ROUTE           | IDOT SECTION   | COUNTY          |
|---------------------|----------------|-----------------|
| 1857                | 04-00071-00-BR | MONROE          |
| FEDERAL AID PROJECT |                | ILLINOIS        |
| IDOT JOB NO.        |                | BR-RS-1857(121) |
| IDOT CONTRACT NO.   |                | 97323           |



#### LEGEND



121.45' MEASURED DIMENSION  
(121.45') RECORDED DIMENSION

- FOUND IRON PIPE OR IRON ROD AT CORNER UNLESS OTHERWISE NOTED
- SET 5/8 INCH IRON ROD WITH PLASTIC CAP IDENTIFIED BY SURVEYORS LICENSE NUMBER AT CORNER UNLESS OTHERWISE NOTED
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- △ SET 5/8 INCH IRON ROD AS SURVEY CONTROL UNLESS OTHERWISE NOTED
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- ⊕ SET CUT CROSS

— SAME OWNERSHIP



STATE OF ILLINOIS )  
COUNTY OF MONROE ) SS

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DATED October 15, 2007

*Joe D. Williamson*  
JOE D. WILLIAMSON, PLS #035-003165

**THOUVENOT,  
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| PROFESSIONAL REGISTRATIONS                      | LICENSE NO. |
|-------------------------------------------------|-------------|
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| ILLINOIS PROFESSIONAL LAND SURVEYING CORP.      | 048-000029  |
| MISSOURI PROFESSIONAL ENGINEER CORP.            | NC 001528   |
| MISSOURI LAND SURVEYING CORP.                   | NC 000346   |

SEAL

**FINAL**

Signature: \_\_\_\_\_  
Signature Date: \_\_\_\_\_  
Expiration Date: \_\_\_\_\_  
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**RIGHT OF WAY PLAN/PLAT**  
**BLUFF ROAD (CTY. HWY. 6)**  
**F.A.S. 1857**  
**BLUFF ROAD (CTY. HWY. 6)**  
**BRIDGE REPLACEMENT**  
**OVER FOUNTAIN CREEK**  
**MONROE COUNTY, IL**

| REV. | DATE | DESCRIPTION |
|------|------|-------------|
| △    |      |             |
| △    |      |             |
| △    |      |             |

|                                                        |                                             |
|--------------------------------------------------------|---------------------------------------------|
| DRAWN BY: KBF/JWS                                      | SHEET                                       |
| DESIGNED BY: BJC                                       | 24                                          |
| CHECKED BY: SJK                                        | OF 67 SHEETS                                |
| APPROVED BY: SJK                                       | PROJECT DESCRIPTION                         |
| PROJECT NUMBER: T116-040125                            | BLUFF RD. BRIDGE OVER FOUNTAIN CRK.         |
| <input type="checkbox"/> ISSUED FOR REVIEW             | <input type="checkbox"/> ISSUED FOR BIDDING |
| <input checked="" type="checkbox"/> ISSUED FOR CONSTR. | <input type="checkbox"/> RECORD DRAWING     |

| FIS ROUTE           | IDOT SECTION    | COUNTY            |
|---------------------|-----------------|-------------------|
| 1857                | 04-00071-00-BR  | MONROE            |
| FEDERAL AID PROJECT | IDOT JOB NO.    | IDOT CONTRACT NO. |
|                     | BR-RS-1857(121) | 97323             |

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FAX (618) 939-3938  
waterloo@twm-inc.com

| PROFESSIONAL REGISTRATIONS          | LICENSE NO. |
|-------------------------------------|-------------|
| ILLINOIS PROFESSIONAL DESIGN FIRM   | 184-001220  |
| PROFESSIONAL ENGINEERING CORP.      | 62-035370   |
| PROFESSIONAL STRUCTURAL ENGR. CORP. | 81-005202   |
| ILLINOIS PROF. LAND SURVEYING CORP. | 048-000329  |
| MISSOURI PROFESSIONAL ENGR. CORP.   | NC 001528   |
| MISSOURI LAND SURVEYING CORP.       | NC 000346   |

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Signature Date: \_\_\_\_\_  
Expiration Date: \_\_\_\_\_  
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engineering or survey project.

TITLE  
**INTERSECTION DETAILS  
EDGE-OF-PAVEMENT WARPING PLAN  
BLUFF ROAD (CTY. HWY. 6)**

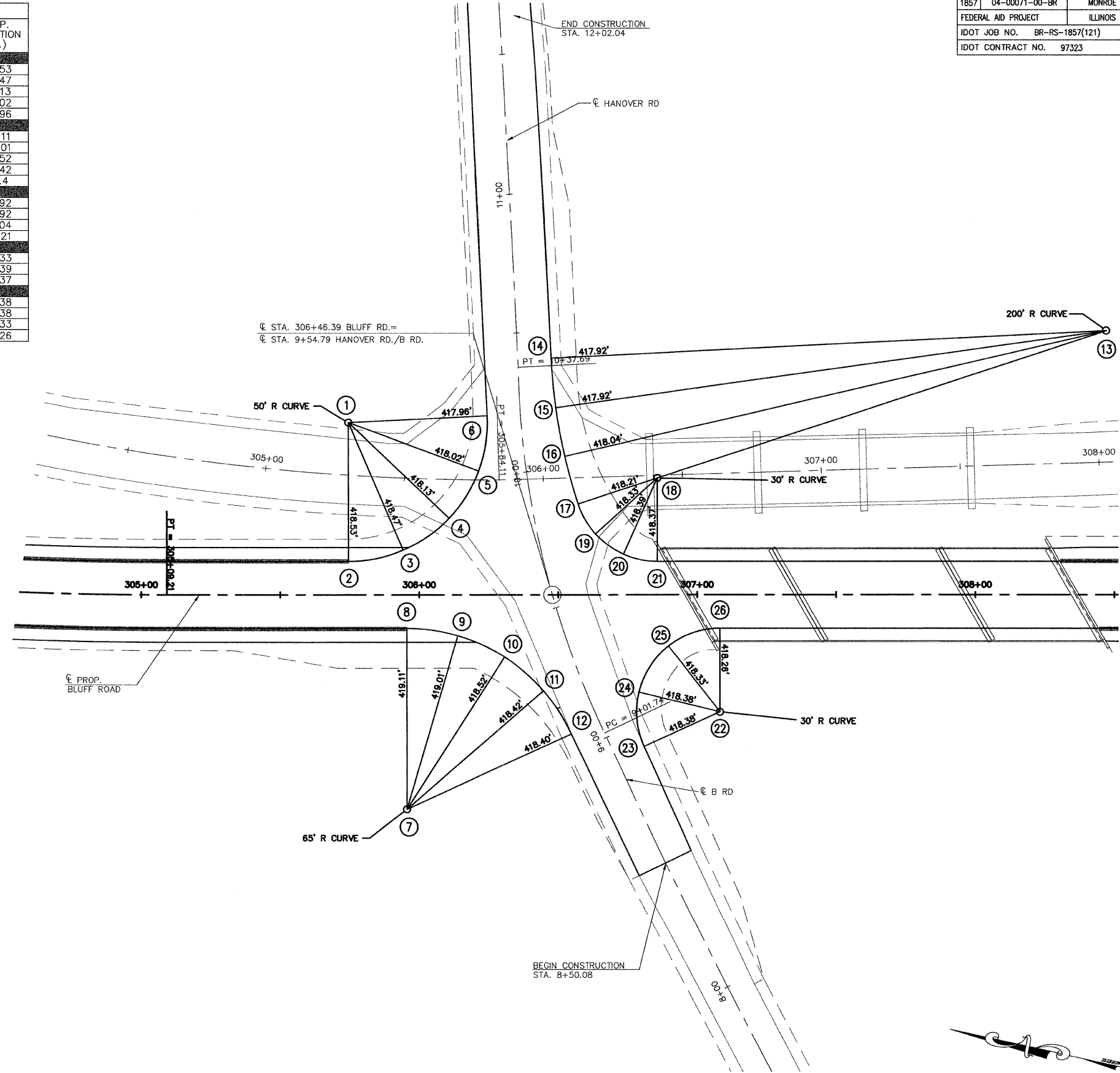
PROJECT  
**BLUFF ROAD (CTY. HWY. 6)  
BRIDGE REPLACEMENT  
OVER FOUNTAIN CREEK  
MONROE COUNTY, IL**

| REV. | DATE | DESCRIPTION |
|------|------|-------------|
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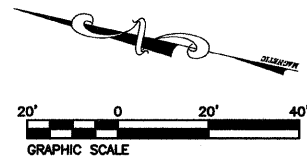
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|--------------------------------------------------------|---------------------------------------------|
| DRAWN BY: KBF/JWS                                      | SHEET                                       |
| DESIGNED BY: BJK                                       | <b>25</b>                                   |
| CHECKED BY: SJK                                        | OF 67 SHEETS                                |
| APPROVED BY: SJK                                       | PROJECT DESCRIPTION                         |
| PROJECT NUMBER: 116-040125                             | BLUFF RD. BRIDGE<br>OVER FOUNTAIN CRK.      |
| <input type="checkbox"/> ISSUED FOR REVIEW             | <input type="checkbox"/> ISSUED FOR BIDDING |
| <input checked="" type="checkbox"/> ISSUED FOR CONSTR. | <input type="checkbox"/> RECORD DRAWING     |

| BLUFF ROAD INTERSECTION STAKEOUT |               |              |                          |                           |                        |
|----------------------------------|---------------|--------------|--------------------------|---------------------------|------------------------|
| POINT #                          | STATION (FT.) | OFFSET (FT.) | EASTING COORDINATE (FT.) | NORTHING COORDINATE (FT.) | E.O.P. ELEVATION (FT.) |
| 1 (R.P.)                         | 305+74.56     | 62.00' LT.   | 2,270,838.1802           | 626,666.1437              |                        |
| 2                                | 305+74.56     | 12.00' LT.   | 2,270,789.2864           | 626,655.6845              | 418.53                 |
| 3                                | 305+94.26     | 16.04' LT.   | 2,270,797.3616           | 626,637.2674              | 418.47                 |
| 4                                | 306+10.77     | 27.52' LT.   | 2,270,812.0397           | 626,623.5213              | 418.13                 |
| 5                                | 306+21.43     | 44.58' LT.   | 2,270,830.9462           | 626,616.6698              | 418.02                 |
| 6                                | 306+24.50     | 64.45' LT.   | 2,270,851.0229           | 626,617.8212              | 417.96                 |
| 7 (R.P.)                         | 305+95.56     | 77.00' RT.   | 2,270,706.6491           | 626,616.5279              |                        |
| 8                                | 305+95.56     | 12.00' RT.   | 2,270,770.2111           | 626,630.1248              | 419.11                 |
| 9                                | 306+13.86     | 14.63' RT.   | 2,270,771.4682           | 626,611.6813              | 419.01                 |
| 10                               | 306+30.68     | 22.30' RT.   | 2,270,767.4824           | 626,593.6299              | 418.52                 |
| 11                               | 306+44.66     | 34.40' RT.   | 2,270,758.5760           | 626,577.4306              | 418.42                 |
| 12                               | 306+54.66     | 49.94' RT.   | 2,270,745.4695           | 626,564.3936              | 418.4                  |
| 13 (R.P.)                        | 308+47.28     | 94.81' LT.   | 2,270,927.3089           | 626,406.3197              |                        |
| 14                               | 306+47.52     | 85.00' LT.   | 2,270,875.9379           | 626,599.6097              | 417.92                 |
| 15                               | 306+49.18     | 67.30' LT.   | 2,270,858.9722           | 626,594.2828              | 417.92                 |
| 16                               | 306+52.41     | 49.81' LT.   | 2,270,842.5468           | 626,587.4699              | 418.04                 |
| 17                               | 306+57.17     | 32.68' LT.   | 2,270,826.7915           | 626,579.2250              | 418.21                 |
| 18 (R.P.)                        | 306+85.69     | 42.00' LT.   | 2,270,841.8691           | 626,553.2893              |                        |
| 19                               | 306+63.42     | 21.90' LT.   | 2,270,817.5559           | 626,570.8639              | 418.33                 |
| 20                               | 306+73.50     | 14.59' LT.   | 2,270,812.5131           | 626,559.4719              | 418.39                 |
| 21                               | 306+85.69     | 12.00' LT.   | 2,270,812.5329           | 626,547.0137              | 418.37                 |
| 22 (R.P.)                        | 307+08.17     | 42.00' RT.   | 2,270,764.4294           | 626,513.7379              |                        |
| 23                               | 306+80.85     | 54.40' RT.   | 2,270,746.5862           | 626,537.8547              | 418.38                 |
| 24                               | 306+79.02     | 34.89' RT.   | 2,270,765.2901           | 626,543.7255              | 418.38                 |
| 25                               | 306+89.64     | 18.41' RT.   | 2,270,783.6265           | 626,536.7915              | 418.33                 |
| 26                               | 307+08.17     | 12.00' RT.   | 2,270,793.7657           | 626,520.0135              | 418.26                 |

NOTES:  
1. RADIUS POINTS INDICATED BY ABBREVIATION (R.P.) IN TABLE ABOVE.  
2. POINTS INDICATED BY SYMBOL (#) IN PLAN VIEW.



NOTES:  
1. ALL ELEVATIONS PROVIDED ARE  
EDGE-OF-PAVEMENT ELEVATIONS.  
2. ALL EDGE-OF-PAVEMENT CURVE  
RADIUS INFORMATION IS IN  
REFERENCE TO THE PROPOSED  
BLUFF ROAD HORIZONTAL ALIGNMENT.



|                     |                 |          |
|---------------------|-----------------|----------|
| FIS ROUTE           | IDOT SECTION    | COUNTY   |
| 1857                | 04-00071-00-BR  | MONROE   |
| FEDERAL AID PROJECT |                 | ILLINOIS |
| IDOT JOB NO.        | BR-RS-1857(121) |          |
| IDOT CONTRACT NO.   | 97323           |          |

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|-------------------------------------|-------------|
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| PROFESSIONAL ENGINEERING CORP.      | 62-035370   |
| PROFESSIONAL STRUCTURAL ENGR. CORP. | 81-005002   |
| ILLINOIS PROF. LAND SURVEYING CORP. | 048-000029  |
| MISSOURI PROFESSIONAL ENGR. CORP.   | NC 001528   |
| MISSOURI LAND SURVEYING CORP.       | NC 000346   |

**FINAL**

- NOTES:**
1. ALL PROPOSED GUARDRAIL SHALL HAVE TYPE A GUARDRAIL MARKERS.
  2. STATIONING ALONG BLUFF ROAD UNLESS MARKED WITH \*.
  3. ALL OFFSETS TO FACE OF GUARDRAIL.

Signature: \_\_\_\_\_  
Signature Date: \_\_\_\_\_  
Expiration Date: \_\_\_\_\_

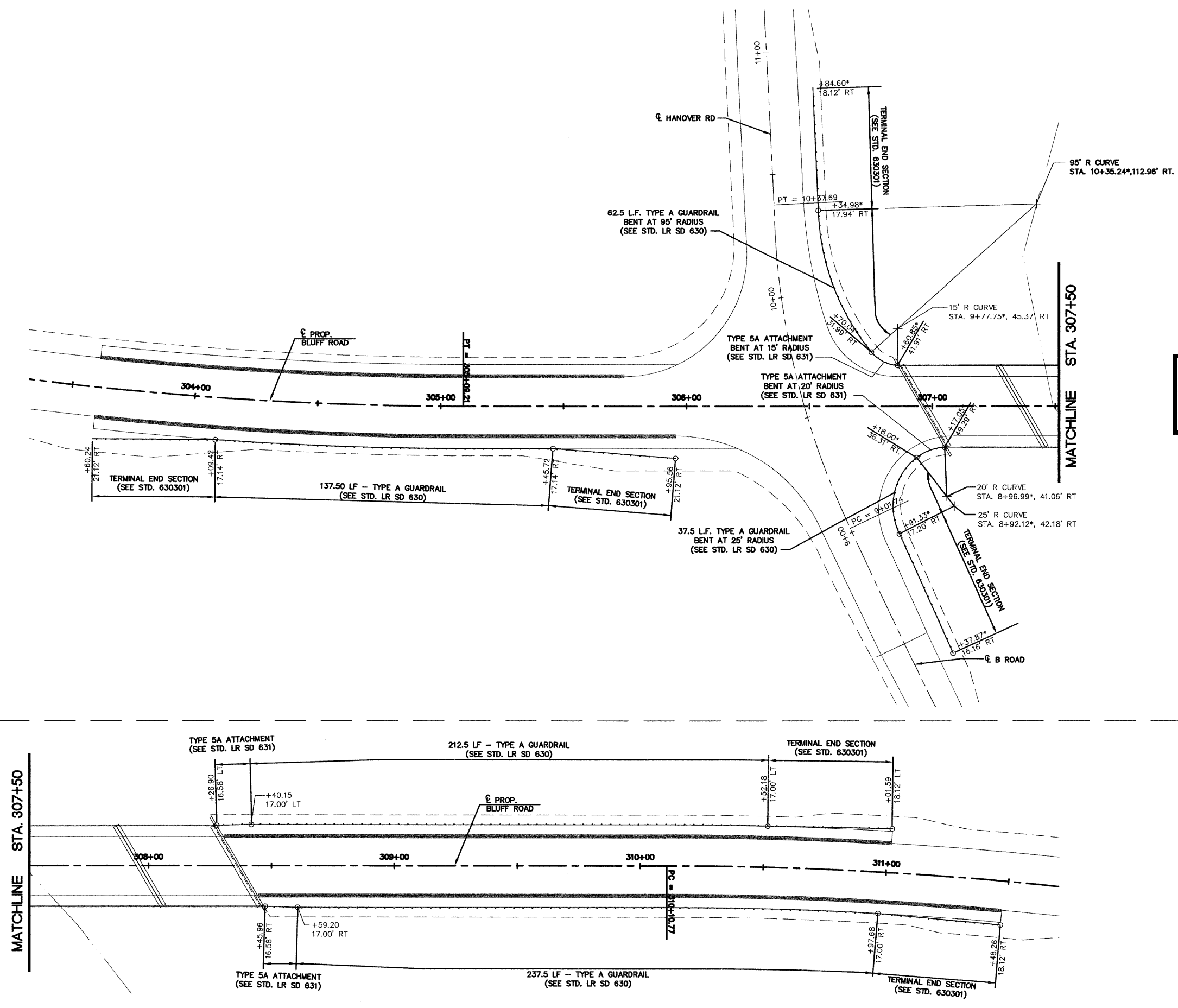
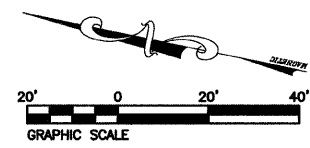
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**TITLE**  
GUARDRAIL PLAN AND LAYOUT  
BLUFF ROAD (CTY. HWY. 6)

**PROJECT**  
BLUFF ROAD (CTY. HWY. 6)  
BRIDGE REPLACEMENT  
OVER FOUNTAIN CREEK  
MONROE COUNTY, IL

| REV. | DATE | DESCRIPTION |
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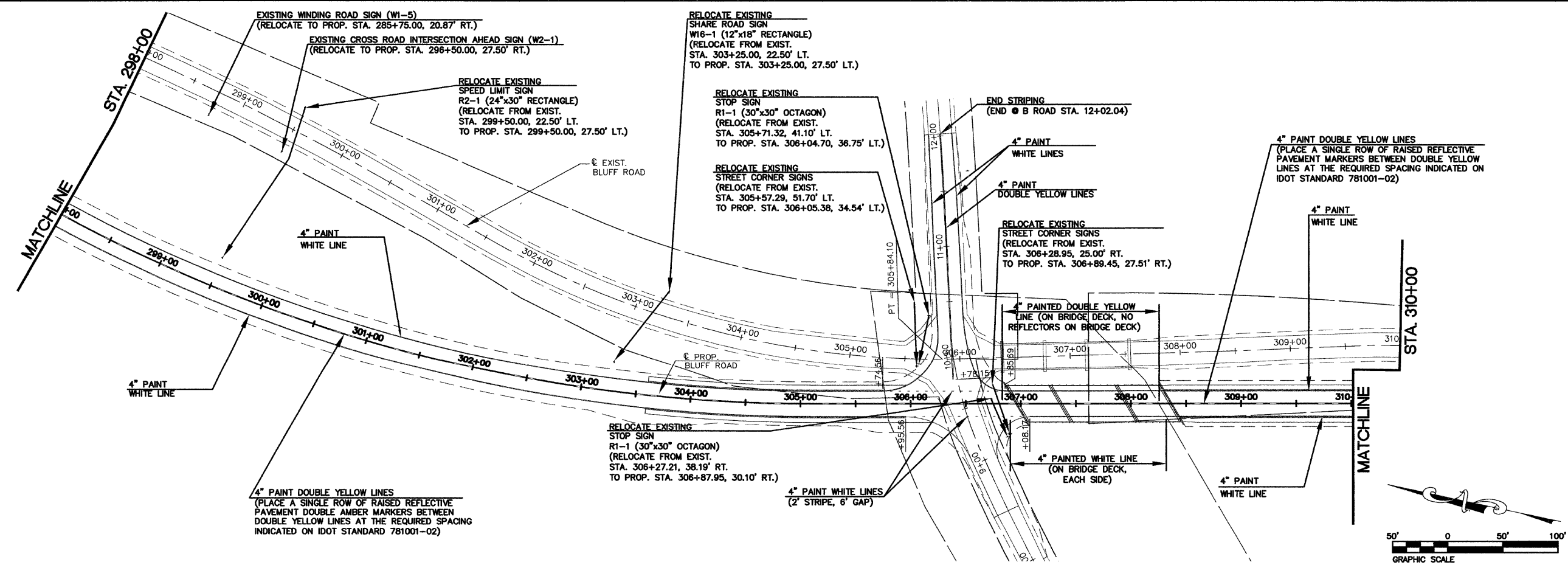
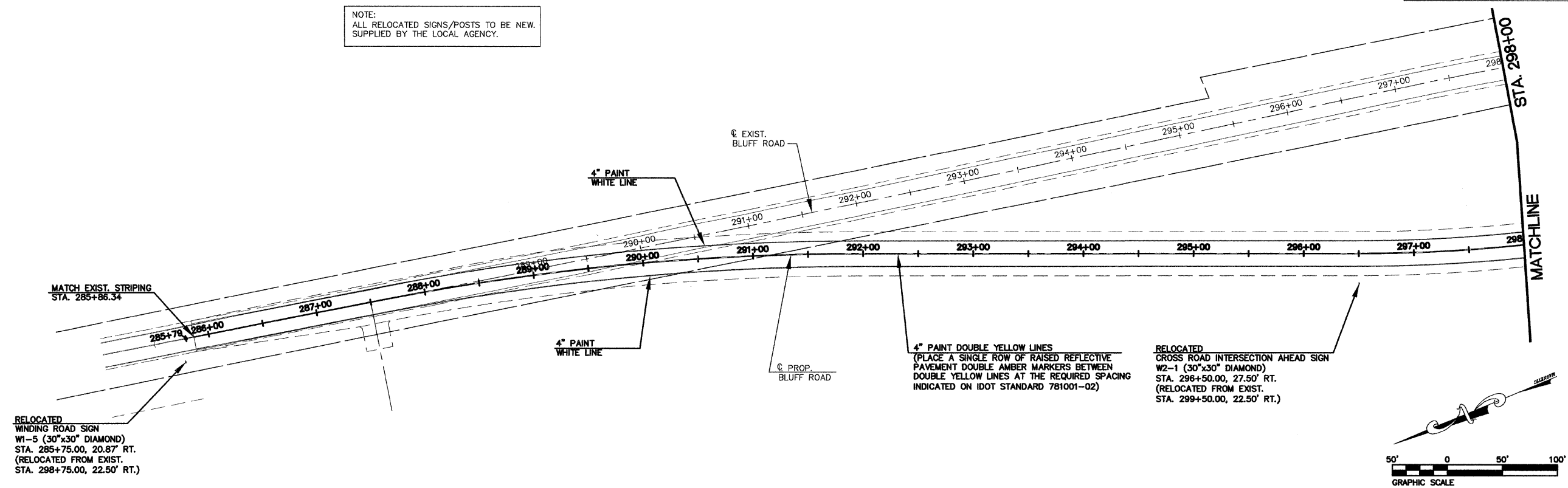
|                                                        |                                                          |
|--------------------------------------------------------|----------------------------------------------------------|
| DRAWN BY: KBF/JWS                                      | SHEET 26                                                 |
| DESIGNED BY: BJG                                       | OF 67 SHEETS                                             |
| CHECKED BY: SJG                                        |                                                          |
| APPROVED BY: SJG                                       |                                                          |
| PROJECT NUMBER: 116-040125                             | PROJECT DESCRIPTION: BLUFF RD. BRIDGE OVER FOUNTAIN CRK. |
| <input type="checkbox"/> ISSUED FOR REVIEW             | <input type="checkbox"/> ISSUED FOR BIDDING              |
| <input checked="" type="checkbox"/> ISSUED FOR CONSTR. | <input type="checkbox"/> RECORD DRAWING                  |



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|                     |                 |        |
|---------------------|-----------------|--------|
| FIS ROUTE           | IDOT SECTION    | COUNTY |
| 1857                | 04-00071-00-BR  | MONROE |
| FEDERAL AID PROJECT | ILLINOIS        |        |
| IDOT JOB NO.        | BR-RS-1857(121) |        |
| IDOT CONTRACT NO.   | 97323           |        |

NOTE:  
ALL RELOCATED SIGNS/POSTS TO BE NEW.  
SUPPLIED BY THE LOCAL AGENCY.



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| PROFESSIONAL STRUCTURAL ENGR. CORP. | 61-005202   |
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**TITLE**  
PAVEMENT MARKING AND SIGNAGE PLAN  
BLUFF ROAD (CTY. HWY. 6)

**PROJECT**  
BLUFF ROAD (CTY. HWY. 6)  
BRIDGE REPLACEMENT  
OVER FOUNTAIN CREEK  
MONROE COUNTY, IL

| REV. | DATE | DESCRIPTION |
|------|------|-------------|
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|                                                        |                                                          |
|--------------------------------------------------------|----------------------------------------------------------|
| DRAWN BY: KBF/JWS                                      | SHEET 27                                                 |
| DESIGNED BY: BJG                                       | OF 67 SHEETS                                             |
| CHECKED BY: SJK                                        |                                                          |
| APPROVED BY: SJK                                       |                                                          |
| PROJECT NUMBER: 16-040125                              | PROJECT DESCRIPTION: BLUFF RD. BRIDGE OVER FOUNTAIN CRK. |
| <input type="checkbox"/> ISSUED FOR REVIEW             | <input type="checkbox"/> ISSUED FOR BIDDING              |
| <input checked="" type="checkbox"/> ISSUED FOR CONSTR. | <input type="checkbox"/> RECORD DRAWING                  |

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| FIS ROUTE                    | IDOT SECTION   | COUNTY |
|------------------------------|----------------|--------|
| 1857                         | 04-00071-00-BR | MONROE |
| FEDERAL AID PROJECT          |                |        |
| IDOT JOB NO. BR-RS-1857(121) |                |        |
| IDOT CONTRACT NO. 97323      |                |        |

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TITLE:

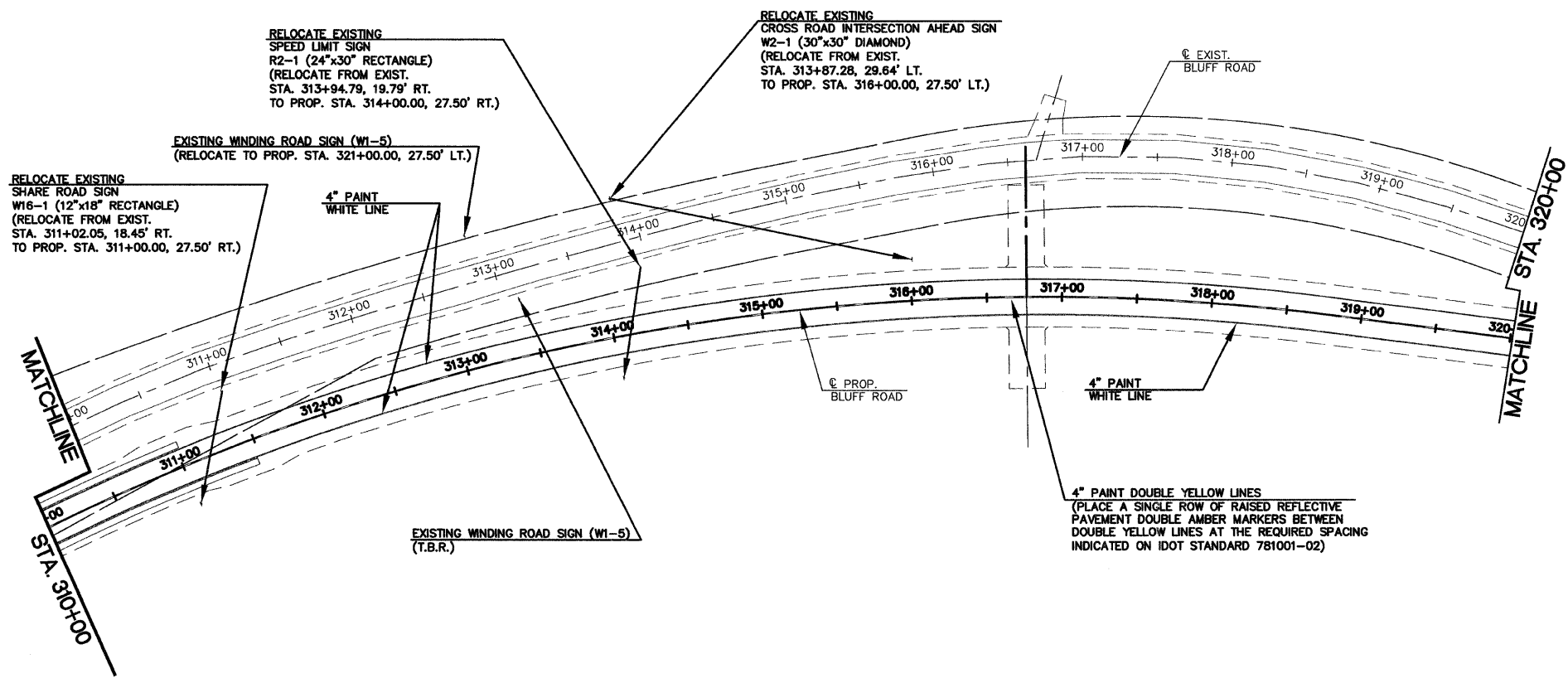
PAVEMENT MARKING  
AND SIGNAGE PLAN  
BLUFF ROAD (CTY. HWY. 6)

PROJECT:

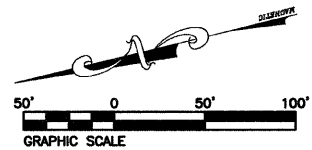
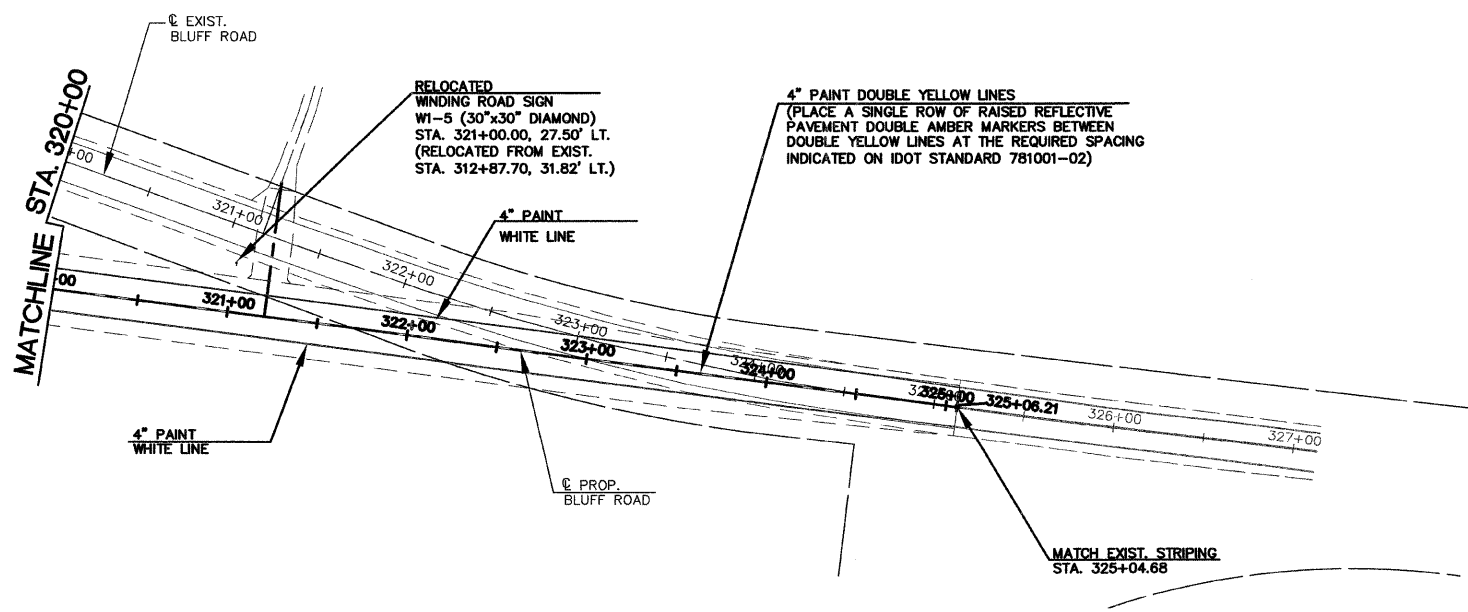
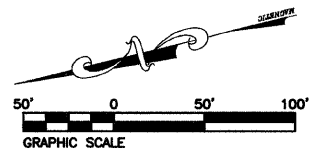
BLUFF ROAD (CTY. HWY. 6)  
BRIDGE REPLACEMENT  
OVER FOUNTAIN CREEK  
MONROE COUNTY, IL

| REV. | DATE | DESCRIPTION |
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|                                                        |                                             |
|--------------------------------------------------------|---------------------------------------------|
| DRAWN BY: KBF/JWS                                      | SHEET 28                                    |
| DESIGNED BY: BJC                                       | OF 67 SHEETS                                |
| CHECKED BY: SJK                                        | PROJECT DESCRIPTION                         |
| APPROVED BY: SJK                                       | BLUFF RD. BRIDGE OVER FOUNTAIN CRK.         |
| PROJECT NUMBER: 16-040125                              |                                             |
| <input type="checkbox"/> ISSUED FOR REVIEW             | <input type="checkbox"/> ISSUED FOR BIDDING |
| <input checked="" type="checkbox"/> ISSUED FOR CONSTR. | <input type="checkbox"/> RECORD DRAWING     |



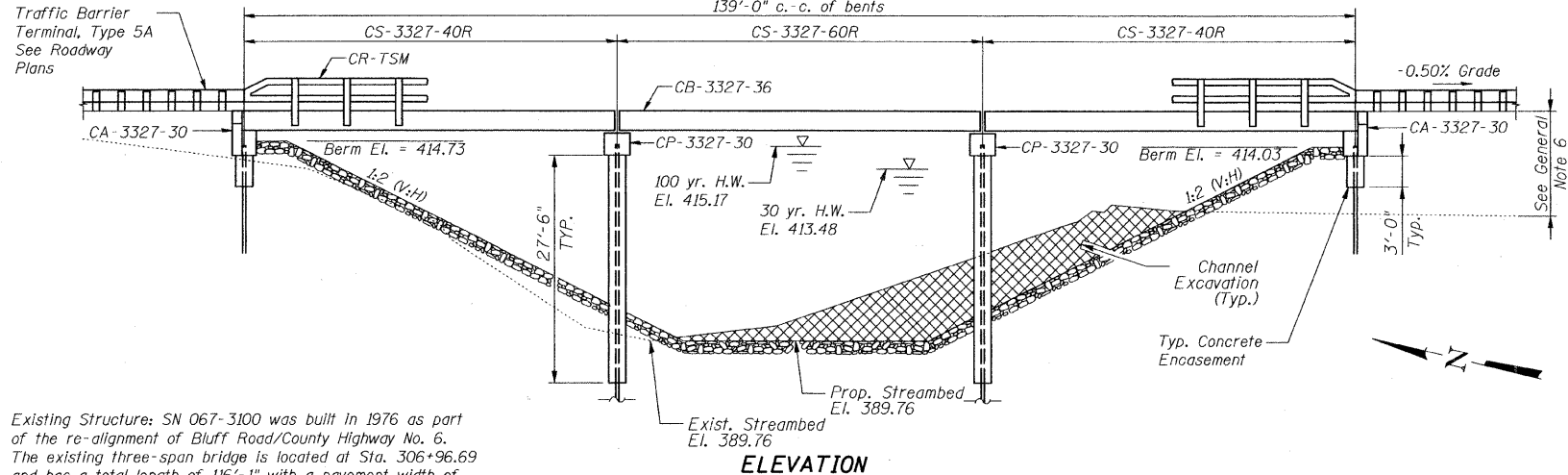
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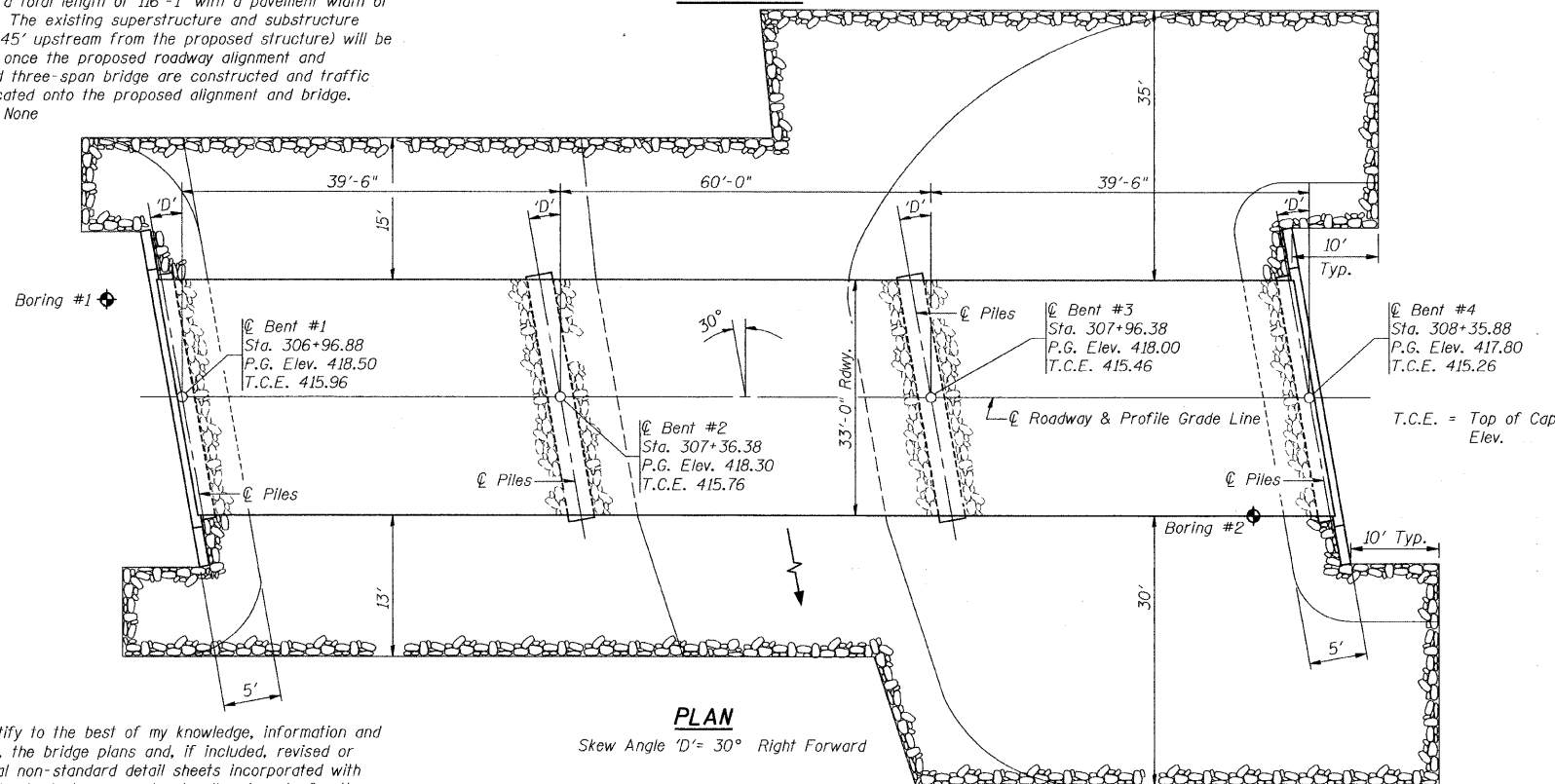
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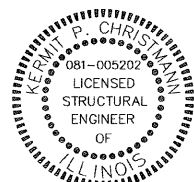
B.M. #1 - Iron Rod in Shoulder of Bluff Rd./B Rd. Intersection - El. 415.28  
Exist. Sta. 306+18.47 / Offset 32.74 Rt.  
Prop. Sta. 306+64.10 / Offset 9.60 Lt.  
B.M. #2 - Iron rod in Shoulder of Levee Rd. - El. 419.29  
Exist. Sta. 308+59.89 / Offset 512.17 Rt.  
Prop. Sta. 309+26.00 / Offset 462.28 Rt.



Existing Structure: SN 067-3100 was built in 1976 as part of the re-alignment of Bluff Road/County Highway No. 6. The existing three-span bridge is located at Sta. 306+96.69 and has a total length of 116'-1" with a pavement width of 24'-3". The existing superstructure and substructure (located 45' upstream from the proposed structure) will be removed once the proposed roadway alignment and proposed three-span bridge are constructed and traffic is re-located onto the proposed alignment and bridge. Salvage: None

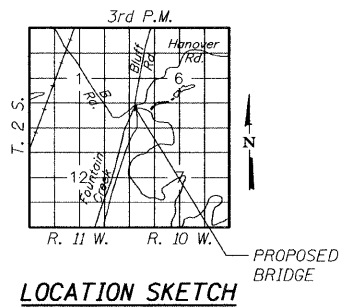
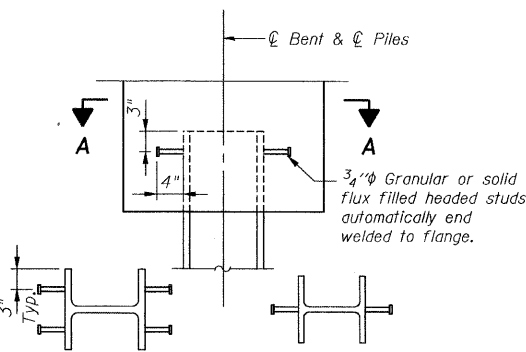


I certify to the best of my knowledge, information and belief, the bridge plans and, if included, revised or special non-standard detail sheets incorporated with the standard plans are structurally adequate for the seismic design loadings shown on the plans and specified by the current "AASHTO Standard Specifications for Highway Bridges."



Kermitt P. Christman, P.E., S.E.  
LICENSE NO. 081-005202  
DATE 10/30/07  
EXPIRES 11-30-2008

PREPARED BY:  
THOUVENOT, WADE & MOERCHEN, INC.



### GENERAL NOTES

- The Contractor shall drive test piles to 110% of the nominal required bearing specified in production locations at the substructures specified or approved by the Engineer before ordering the piles.
- See Special Provisions for boring logs.
- A Corrosion inhibitor shall be used in the concrete for the precast, prestressed concrete deck beams, according to Article 1020.05(b) of the Standard Specifications. Reinforcement bars shall conform to the requirements of ASTM A706 Grade 60 (LL Modified). See special provisions. This note supersedes notes on Abutment and Pier Sheets.
- Layout of the slope protection system may be varied to suit ground conditions in the field as directed by the Engineer.
- South abutment may not be poured until fill at south abutment has been in place for a minimum of 60 days to allow for settlement. If all south abutment piles are driven to refusal in rock, the 60 day waiting period would not be necessary.
- The pre-existing and existing north bridge abutments shall remain in place after construction. The removal of all other pre-existing and existing bridge elements shall be included in the REMOVAL OF EXISTING STRUCTURES pay item.

### TOTAL BILL OF MATERIAL

| Item                                                | Unit    | Super | Sub.  |        | Total |
|-----------------------------------------------------|---------|-------|-------|--------|-------|
|                                                     |         |       | Piers | Abuts. |       |
| Removal of Existing Structures                      | Each    | —     | —     | —      | 1     |
| Channel Excavation                                  | Cu. Yd. | —     | —     | —      | 720   |
| Furnished Excavation                                | Cu. Yd. | —     | —     | —      | 166   |
| Stone Dumped Riprap, Class A4                       | Sq. Yd. | —     | —     | —      | 1600  |
| Hot Mix Asphalt Surface Course, Mix D, N70          | Ton     | 74.3  | —     | —      | 74.3  |
| Waterproofing Membrane System                       | Sq. Yd. | 513.4 | —     | —      | 513.4 |
| Concrete Structures                                 | Cu. Yd. | —     | 23.8  | 28.2   | 52.0  |
| Precast Prestressed Concrete Deck Beams (27" Depth) | Sq. Ft. | 4620  | —     | —      | 4620  |
| Steel Railing, Type SM                              | Foot    | 280   | —     | —      | 280   |
| Reinforcement Bars                                  | Pound   | —     | 2340  | 3360   | 5700  |
| Furnishing Steel Piles HPI0X42                      | Foot    | —     | —     | 785    | 785   |
| Furnishing Steel Piles HPI2X53                      | Foot    | —     | 1260  | —      | 1260  |
| Driving Piles                                       | Foot    | —     | 1260  | 785    | 2045  |
| Test Pile Steel HPI0X42                             | Each    | —     | 2     | 2      | 2     |
| Test Pile Steel HPI2X53                             | Each    | —     | —     | —      | —     |
| Name Plates                                         | Each    | —     | —     | —      | 1     |
| Concrete Encasement                                 | Cu. Yd. | —     | 48.7  | 3.1    | 51.8  |
| Portland Cement Mortar Fairing Course               | Foot    | 1400  | —     | —      | 1400  |
| Stud Shear Connectors                               | Each    | —     | 64    | 24     | 88    |

### DESIGN SPECIFICATIONS

2002 AASHTO Standard Specifications - 17th ed.

### LOADING HS20-44

Allow 25#/sq. ft. for future wearing surface.

### SEISMIC DATA

Seismic Performance Category (SPC) = B  
Bedrock Acceleration Coefficient (A) = 0.11g  
Site Coefficient (S) = 1.5

### PILE DATA (2-PIERS)

Pile Type & Size: Steel HPI2X53  
Nominal Required Bearing: 264 kips  
Allowable Resistance Available: 88 kips  
Estimated Pile Length: 90 ft.  
Number of Production Piles: 7 - Bent #2, 7 - Bent #3  
Number of Test Piles: 1 - Bent #2, 1 - Bent #3

### PILE DATA (2-ABUTS.)

Pile Type & Size: Steel HPI0X42  
Nominal Required Bearing: 334 kips - Bent #1, 192 kips - Bent #4  
Allowable Resistance Available: 111 kips - Bent #1, 64 kips - Bent #4  
Estimated Pile Length: 67 ft - Bent #1, 90 ft - Bent #4  
Number of Production Piles: 5 - Bent #1, 5 - Bent #4  
Number of Test Piles: 1 - Bent #1, 1 - Bent #4

### WATERWAY INFORMATION

|                               |       |                                           |                 |                     |               |
|-------------------------------|-------|-------------------------------------------|-----------------|---------------------|---------------|
| Drainage Area = 57.38 Sq. Mi. |       | Low Grade Elev. = 410.89 @ Sta. 313+13.50 |                 |                     |               |
| Flood                         | Freq. | Q                                         | Opening Sq. Ft. | Nat.                | Head - Ft.    |
|                               | Yr.   | C.F.S.                                    | Exist. Prop.    | H.W.E. Exist. Prop. | Headwater El. |
| Design                        | 30    | 10856                                     | 1222 1211       | 413.48 0.30 0.49    | 413.78 413.97 |
| Base                          | 100   | 14390                                     |                 | 415.17 0.21 0.53    | 415.38 415.70 |
| Overtopping                   |       |                                           |                 |                     |               |
| Max. Calc.                    | 500   | 19034                                     |                 | 415.69 0.31 0.91    | 416.00 416.60 |

THOUVENOT, WADE & MOERCHEN, INC.  
ENGINEERS • SURVEYORS • PLANNERS



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PROFESSIONAL ENGINEERING CORP. 62-033370  
PROFESSIONAL STRUCTURAL ENGR. CORP. 81-005202  
ILLINOIS PROF. LAND SURVEYING CORP. 048-000029  
MISSOURI PROFESSIONAL ENGR. CORP. NC 001528  
MISSOURI LAND SURVEYING CORP. NC 000346

SEAL

FINAL

Signature:  
Signature Date:  
Expiration Date:  
STATEMENT OF RESPONSIBILITY  
I hereby confirm that the document herein to be authorized by my seal is restricted to this sheet, and I hereby disclaim any responsibility for all other drawings, specifications, estimates, reports or other documents or instruments relating to or intended to be utilized for any other part of the architectural, engineering or survey project.

TITLE: GENERAL PLAN AND ELEVATION  
F.A.S. 1857 (BLUFF RD./CTY. HWY. #6)  
OVER FOUNTAIN CRK. (STA. 307+66.38)  
PROJECT: BLUFF ROAD (CTY. HWY. #6)  
BRIDGE REPLACEMENT  
OVER FOUNTAIN CREEK  
MONROE COUNTY, IL

| REV. | DATE | DESCRIPTION |
|------|------|-------------|
| △    |      |             |
| △    |      |             |
| △    |      |             |
| △    |      |             |

DRAWN BY: KBF  
DESIGNED BY: ALN  
CHECKED BY: KPC  
APPROVED BY: KPC  
PROJECT NUMBER: T16-040125  
PROJECT DESCRIPTION: BLUFF RD. BRIDGE OVER FOUNTAIN CRK.  
☐ ISSUED FOR REVIEW ☐ ISSUED FOR BIDDING  
☒ ISSUED FOR CONSTR. ☐ RECORD DRAWING

SHEET  
29  
OF 67 SHEETS





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BLUFF ROAD (CTY. HWY. 6)  
BRIDGE REPLACEMENT  
OVER FOUNTAIN CREEK  
MONROE COUNTY, IL

| REV. | DATE | DESCRIPTION |
|------|------|-------------|
| △    |      |             |
| △    |      |             |
| △    |      |             |

|                                                        |                                             |
|--------------------------------------------------------|---------------------------------------------|
| DRAWN BY: KBF                                          | SHEET                                       |
| DESIGNED BY: ALN                                       | 30                                          |
| CHECKED BY: KPC                                        | OF 67 SHEETS                                |
| APPROVED BY: KPC                                       | PROJECT DESCRIPTION                         |
| PROJECT NUMBER T16-040125                              | BLUFF RD. BRIDGE OVER FOUNTAIN CRK.         |
| <input type="checkbox"/> ISSUED FOR REVIEW             | <input type="checkbox"/> ISSUED FOR BIDDING |
| <input checked="" type="checkbox"/> ISSUED FOR CONSTR. | <input type="checkbox"/> RECORD DRAWING     |



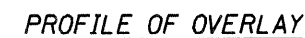
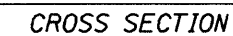
*This detail modifies Standard CR-TSM.  
Also see Hwy. Std. BLR 27 for additional information.*



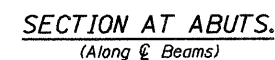
(*'D'* = Designated Skew Angle)

NOTES

1. After beams have been erected, holes shall be drilled into substructure and anchor dowels placed. Dowel holes shall be filled with non-shrink grout to top of beam and allowed to cure min. 24 hrs. prior to grouting the shear keys.
2. Nominal 1" joint at C Pier shall be filled with non-shrink grout.
3. Longitudinal keys shall be grouted.



| 'D' | 5°                | 10°               | 15°               | 20°               | 25°               | 30°               |
|-----|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| A   | 1 $\frac{1}{2}$ " | 1 $\frac{5}{8}$ " | 1 $\frac{3}{4}$ " | 1 $\frac{7}{8}$ " | 2 $\frac{1}{4}$ " | 2 $\frac{5}{8}$ " |
| B   | 7 $\frac{1}{2}$ " | 7 $\frac{3}{4}$ " | 7 $\frac{3}{4}$ " | 8"                | 8 $\frac{1}{2}$ " | 8 $\frac{5}{8}$ " |



QUANTITIES FOR ONE SPAN

|                                          |               |
|------------------------------------------|---------------|
| P.P. Conc. Dk. Bm. 27" Dp.               | 1320 Sq. Ft.  |
| Steel Railing                            | 80 Ft.        |
| Waterproofing Membrane System            | 146.7 Sq. Yds |
| Portland Cement Mortar<br>Fairing Course | 400 Ft.       |

Note: Quantity of overlay for one span = 23.1 Tons

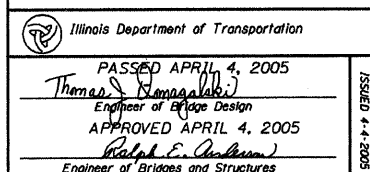
**P.P.C. DECK BEAM  
SUPERSTRUCTURE**

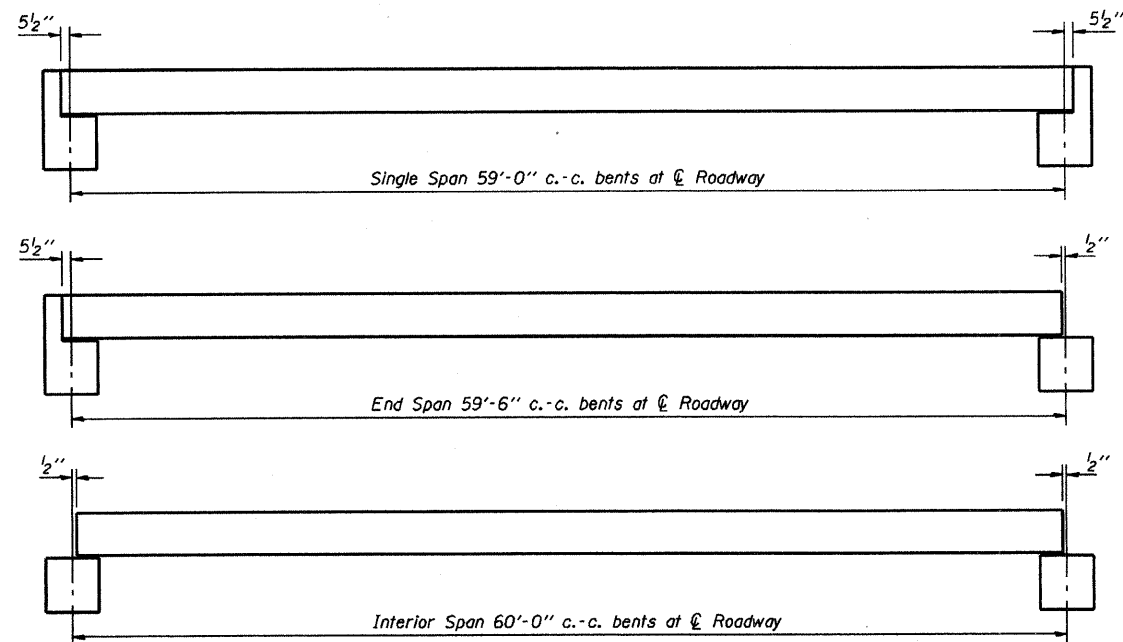
|           |          |          |       |
|-----------|----------|----------|-------|
| 33' RDWY. | 27" BMS. | 40' SPAN | RIGHT |
|-----------|----------|----------|-------|

STANDARD CS-3327-40R

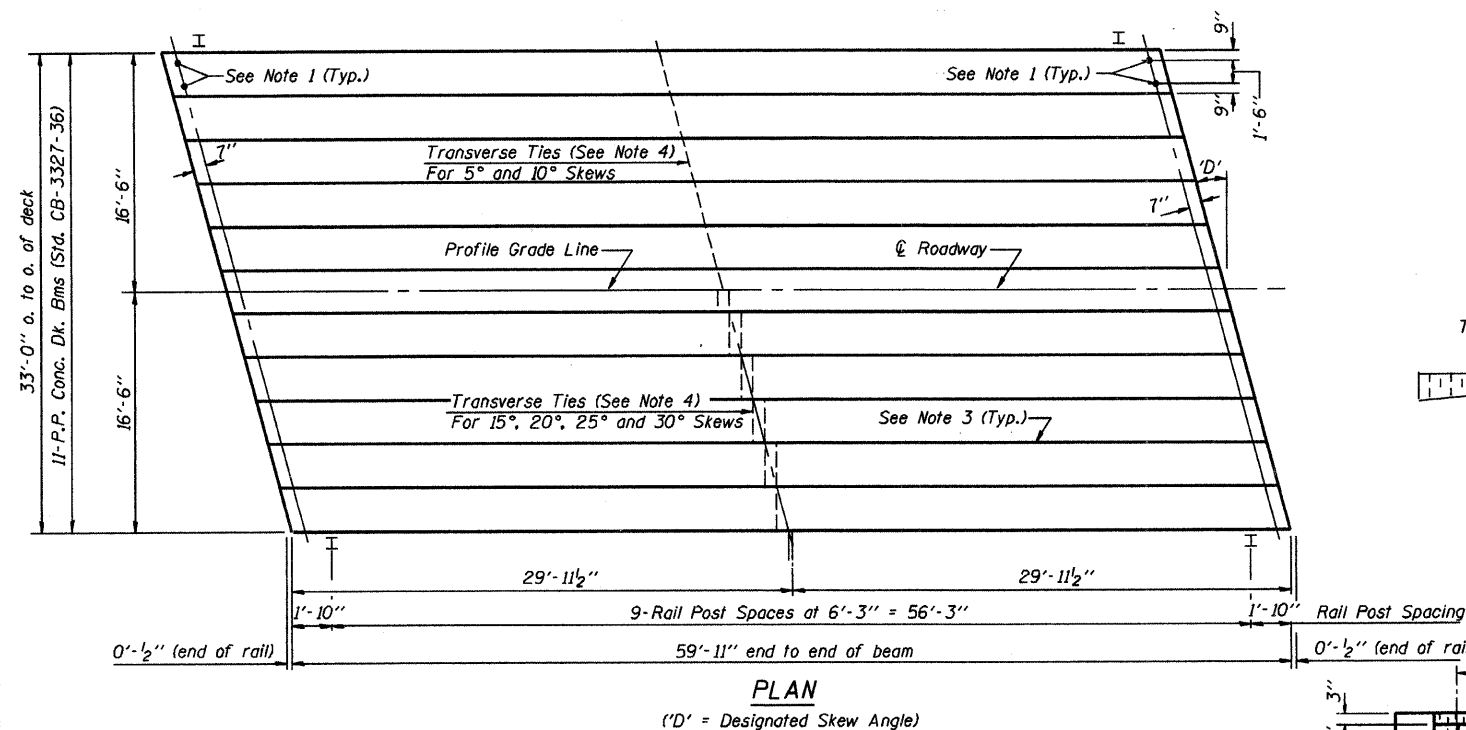
**SHEET #30A (OF 67)**

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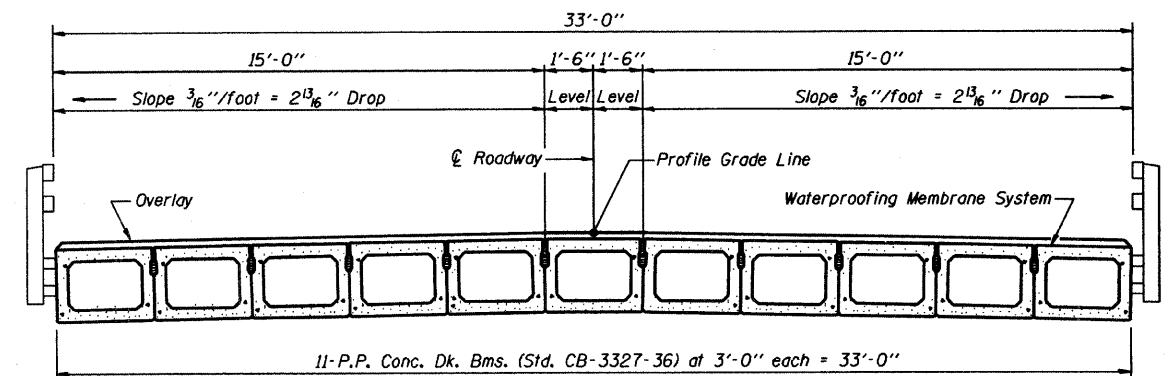
TYPICAL ELEVATIONS



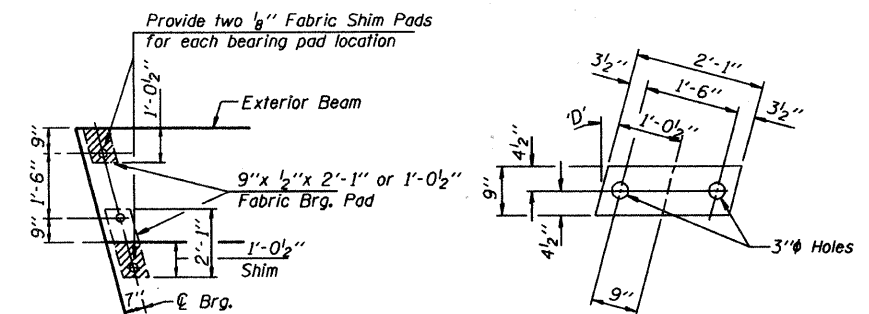
PLAN  
('D' = Designated Skew Angle)

NOTES

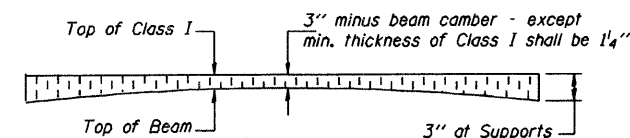
- After beams have been erected, holes shall be drilled into substructure and anchor dowels placed. Dowel holes shall be filled with non-shrink grout to top of beam and allowed to cure min. 24 hrs. prior to grouting the shear keys.
- Nominal 1" joint at  $\phi$  Pier shall be filled with non-shrink grout.
- Longitudinal keys shall be grouted.
- The 1"  $\phi$  rods in the transverse tie assembly shall be tightened to a snug fit and the threads set. Pockets that receive transverse tie bar outside shall be filled with grout after transverse tie assembly is in place.



CROSS SECTION



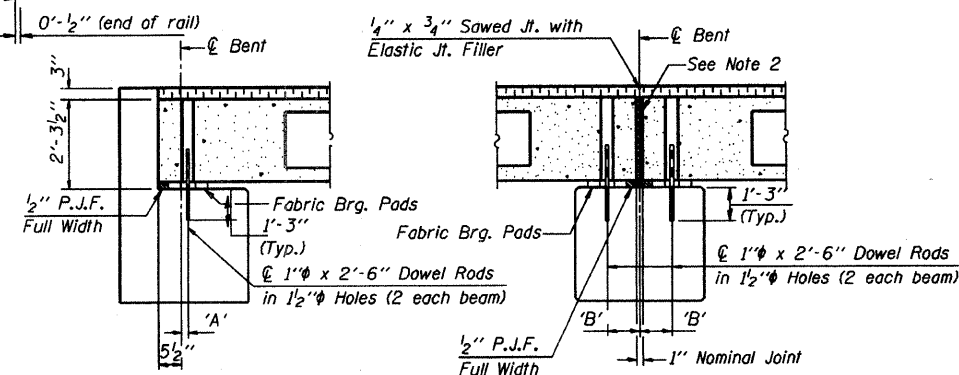
1/2" FABRIC BRG. PAD DETAILS



PROFILE OF OVERLAY

DIMENSIONS 'A' AND 'B'

| 'D' | 5°     | 10°    | 15°    | 20°    | 25°    | 30°    |
|-----|--------|--------|--------|--------|--------|--------|
| A   | 1 1/2" | 1 5/8" | 1 3/4" | 1 7/8" | 2 1/8" | 2 5/8" |
| B   | 7 1/2" | 7 5/8" | 7 3/4" | 8"     | 8 1/4" | 8 5/8" |



SECTION AT ABUTS.  
(Along  $\phi$  Beams)

SECTION AT PIERS  
(Along  $\phi$  Beams)

QUANTITIES FOR ONE SPAN

|                               |                |
|-------------------------------|----------------|
| P.P. Conc. Dk. Bm. 27" Dp.    | 1980 Sq. Ft.   |
| Steel Railing                 | 120 Ft.        |
| Waterproofing Membrane System | 220.0 Sq. Yds. |
| Portland Cement Mortar        | 600 Ft.        |
| Fairing Course                |                |

Note: Quantity of overlay for one span = 28.1 Tons

P.P.C. DECK BEAM  
SUPERSTRUCTURE

|           |          |          |       |
|-----------|----------|----------|-------|
| 33' RDWY. | 27" BMS. | 60' SPAN | RIGHT |
|-----------|----------|----------|-------|

STANDARD CS-3327-60R

SHEET #30B (OF 67)

11-192

Illinois Department of Transportation

PASSED APRIL 4, 2005

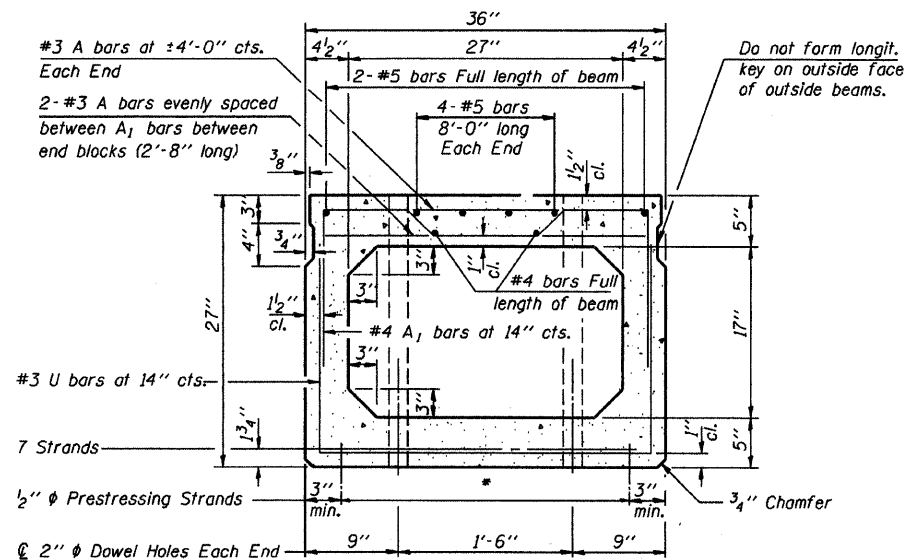
Theresa S. Hemminger

Engineer of Bridge Design

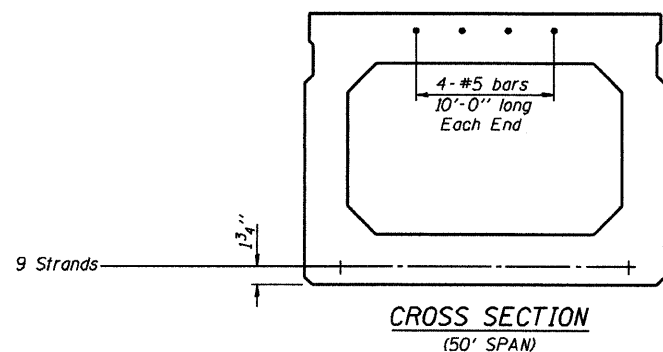
APPROVED APRIL 4, 2005

Ralph E. Anderson

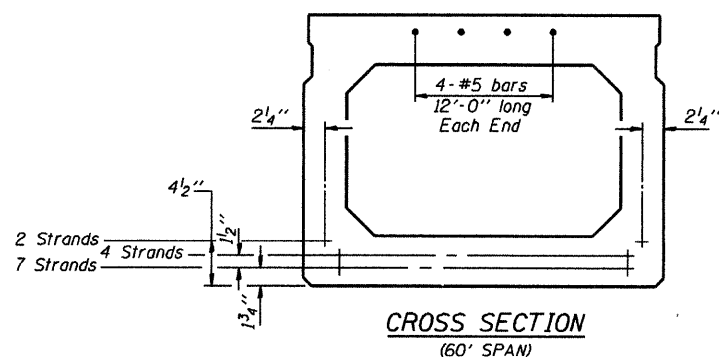
Engineer of Bridges and Structures



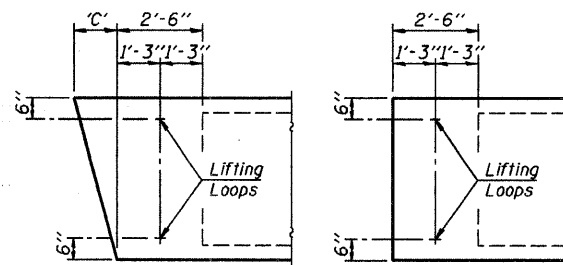
**CROSS SECTION**  
(40' SPAN)



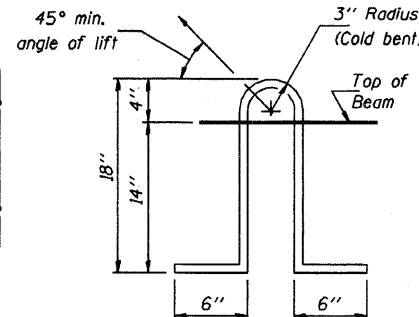
**CROSS SECTION**  
(50' SPAN)



**CROSS SECTION**  
(60' SPAN)



**END BLOCK DETAILS**



**LIFTING LOOP DETAIL**

Lifting loops shall be 2-1/2"  $\phi$  270 ksi strands, as shown. Alternate approved lifting devices are also acceptable.

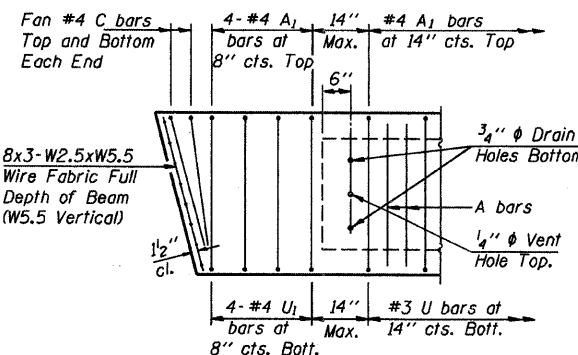
**DIMENSION 'C'**

| Skew Angle 'D'         | 0° | 5°  | 10°   | 15°   | 20°    | 25°    | 30°    |
|------------------------|----|-----|-------|-------|--------|--------|--------|
| Dimension 'C' (Inches) | 0  | 3/8 | 6 3/8 | 9 5/8 | 13 3/8 | 16 3/4 | 20 3/4 |

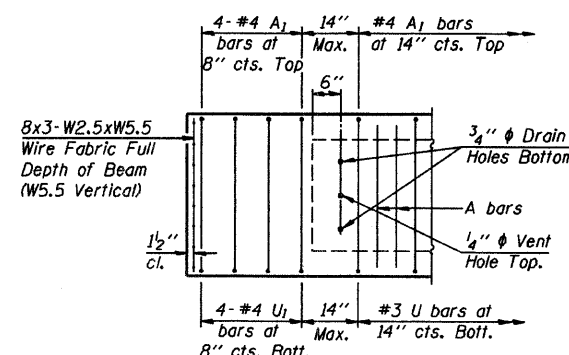
**\* TRANSVERSE STRAND PLACEMENT GUIDELINES**

- Place strands symmetrically about centerline of beam.
- The minimum distance from center to center of strands in all directions shall be 2".
- The minimum clearance from strand to dowel hole shall be 1/2".
- The minimum clearance from strand to void shall be 1 1/2".

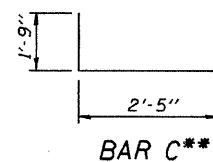
Vertical placement of strands shall not be adjusted to satisfy the above guidelines.



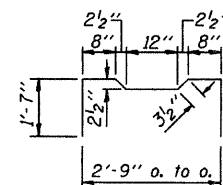
**END REINFORCEMENT**  
(SKEWED)



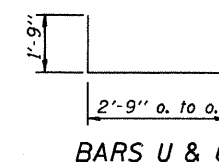
**END REINFORCEMENT**  
(RIGHT ANGLE)



**BAR C\*\***



**BAR A<sub>1</sub>**



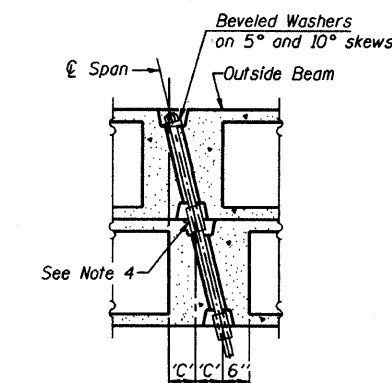
**BARS U & U<sub>1</sub>**

**DESIGN STRESSES**

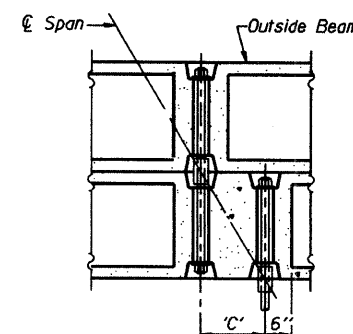
$f'_c = 5,000$  p.s.i.  
 $f'_t = 4,000$  p.s.i.  
 $f_s = 270,000$  p.s.i. (1/2"  $\phi$  Strand)  
 $f_{sl} = 201,960$  p.s.i. (1/2"  $\phi$  Strand)  
 $f_y = 60,000$  p.s.i.

**MIN. BAR LAP**

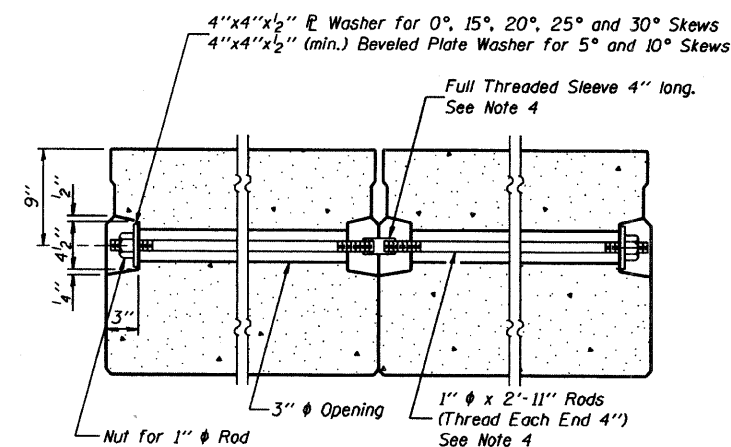
#4 bars = 1'-4"  
#5 bars = 1'-8"



**PARTIAL PLAN TRANSVERSE TIE ASSEMBLY**  
(D=0°, 5° and 10°)



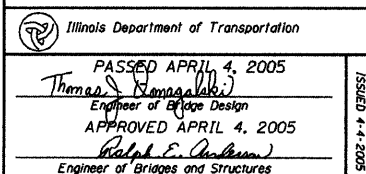
**PARTIAL PLAN TRANSVERSE TIE ASSEMBLY**  
(D=15°, 20°, 25° and 30°)



**SECTION ALONG TRANSVERSE TIE ASSEMBLY**  
(REQUIRED FOR 50' & 60' SPANS ONLY)

**NOTES**

- Prestressing steel shall be uncoated high strength, low relaxation 7-wire strand, Grade 270.
- The nominal diameter shall be 1/2" and the nominal cross-sectional area shall be 0.153 square inches.
- Reinforcement bars shall conform to the requirements of AASHTO M-31 or M-322, Grade 60.
- On 0°, 5° and 10° skews, alternate approved transverse tie rods of increased segmental length are acceptable.
- Rail Post anchor devices shall be cast into outside beam as elsewhere specified.
- When a Waterproofing Membrane System is specified, the top surface of the beams shall be screeded with a straightedge and finished with a hand float. The finished surface shall be free of depressions or high spots with sharp corners and the top edge of keys shall be rounded or chamfered a minimum of 1/4".
- Keyway surfaces shall be cleaned to remove form oil or other bond breaking material prior to shipment of the beams. Cleaning shall be done by sandblasting the keyway areas between the top of the beam and the bottom edge of the key.



**NOTE:**  
The std. reinf. and dimensions shown on the 40' span cross section is typical for all spans, except as shown.

**\*\*NOTE:**  
The following number of C bars shall be used:  
Skew No.  
5° and 10° — 1  
15° and 20° — 2  
25° and 30° — 3

**P.P.C. DECK BEAM DETAILS**

33' ROADWAY 27" x 36" BEAMS

STANDARD CB-3327-36



## NOTES

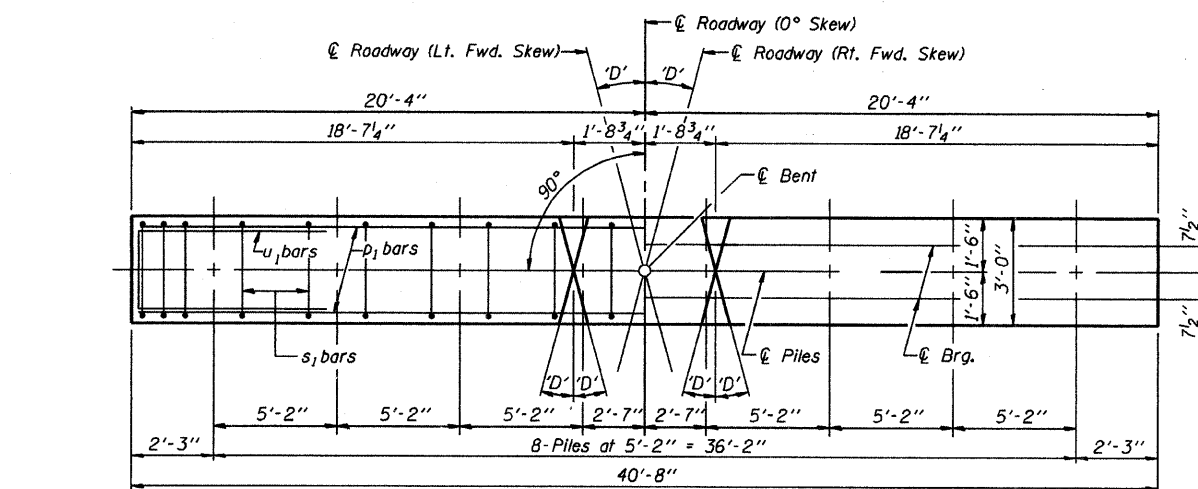
1. The Backwall and the portion of the Wingwalls above the bonded construction joint shall be cast against the in-place beam.
2. Reinforcement bars shall conform to the requirements of A.A.S.H.T.O. M-31 or M-322, Grade 60.
3. Space reinforcement in cap to miss anchor bolts.

| SPAN | TONS |
|------|------|
| 40'  | 28   |
| 50'  | 32   |
| 60'  | 36   |

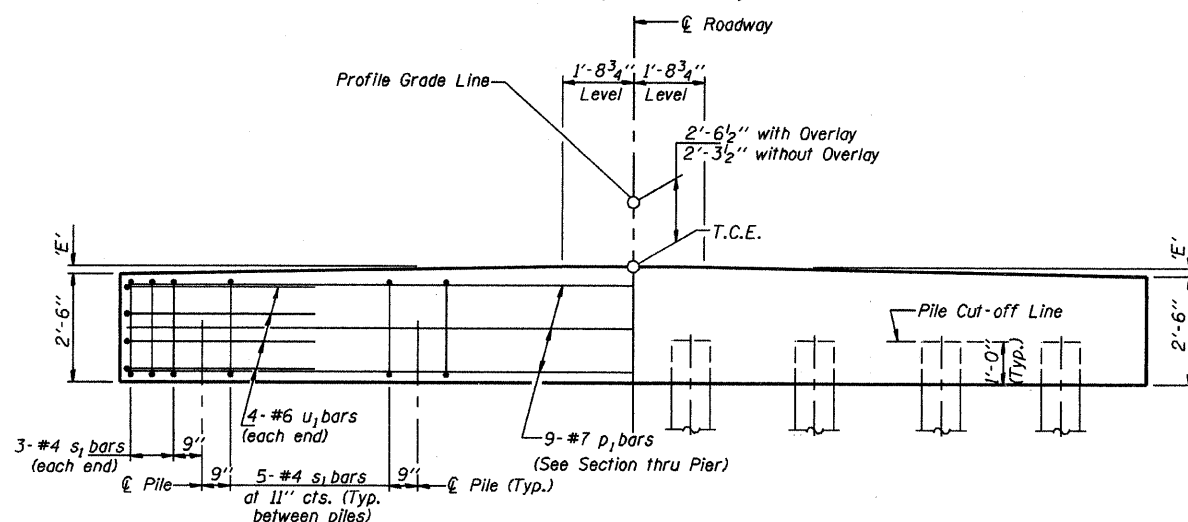
$$f'_c = 3,500 \text{ psi}$$
$$f_y = 60,000 \text{ psi}$$


| Bar                        | No. | Size | Length               | Shape |
|----------------------------|-----|------|----------------------|-------|
| h                          | 16  | #4   | 5'-0"                | —     |
| h1                         | 4   | #4   | 5'-3"                | —     |
| h2                         | 6   | #4   | 39'-9"               | —     |
|                            |     |      |                      |       |
| p                          | 10  | #7   | 39'-9"               | —     |
|                            |     |      |                      |       |
|                            |     |      |                      |       |
| s                          | 41  | #4   | 9'-5"                | □     |
|                            |     |      |                      |       |
| u                          | 8   | #6   | 11'-1"               | □     |
|                            |     |      |                      |       |
| v                          | 8   | #4   | 3'-2"                | —     |
| v1                         | 8   | #4   | 4'-2"                | —     |
| v2                         | 80  | #4   | 3'-11"               | —     |
|                            |     |      |                      |       |
| <b>Concrete Structures</b> |     |      | <b>14.1 Cu. Yds.</b> |       |
| <b>Reinforcement Bars</b>  |     |      | <b>1680 Lb.</b>      |       |

STANDARD CA-3327-30



**PLAN**  
( $D'$  = Designated Skew Angle)



**ELEVATION**

**DIMENSION 'E'**

| GRADE         | $D'=25^\circ$  |                  | $D'=30^\circ$  |                  |
|---------------|----------------|------------------|----------------|------------------|
|               | UPGRADE<br>END | DOWNGRADE<br>END | UPGRADE<br>END | DOWNGRADE<br>END |
| 0%            | 3 1/8"         | 3 1/8"           | 3"             | 3"               |
| Over 0% to 1% | 2 5/8"         | 3 1/2"           | 2 3/8"         | 3 1/2"           |
| Over 1% to 2% | 1 3/4"         | 4 1/2"           | 1 3/8"         | 4 5/8"           |
| Over 2% to 3% | 3/4"           | 5 3/8"           | 1/4"           | 5 3/8"           |
| Over 3% to 4% | 0"             | 6 1/4"           | —              | —                |

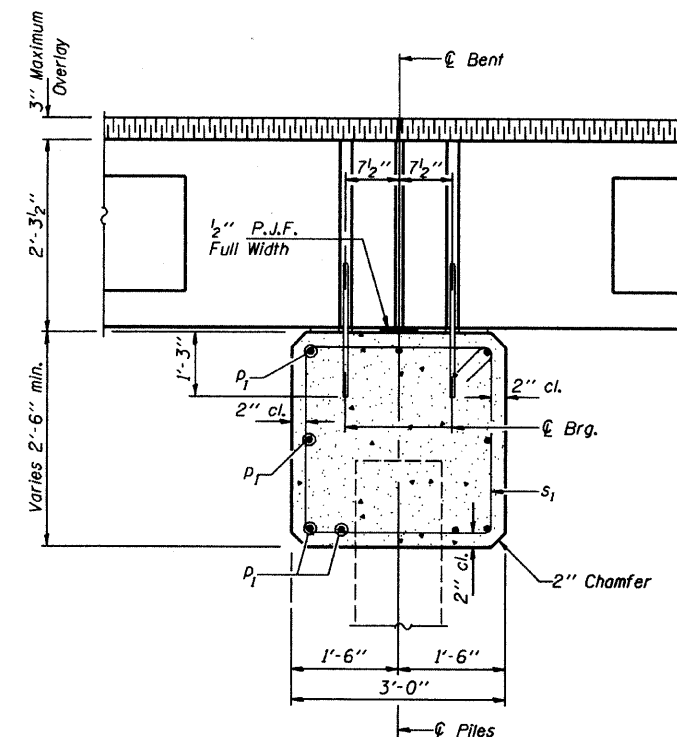
**MAXIMUM PILE LOADS**

| SPAN | TONS |
|------|------|
| 40'  | 31   |
| 50'  | 36   |
| 60'  | 42   |

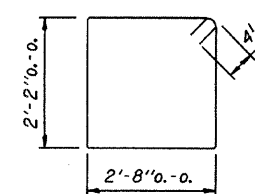
Longer of Either Span  
Supported by Pier.

**DESIGN STRESSES**

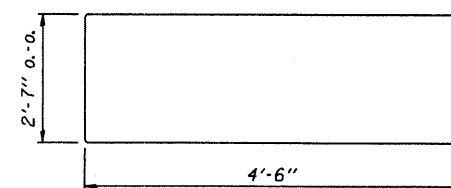
$f'_c = 3,500$  psi  
 $f_y = 60,000$  psi



**SECTION THRU PIER**  
(At Right Angles)



**BAR  $s_1$**



**BAR  $u_1$**

**BILL OF MATERIAL  
FOR ONE PIER**

| Bar                 | No. | Size | Length | Shape    |
|---------------------|-----|------|--------|----------|
| $p_1$               | 9   | #7   | 40'-4" | —        |
| $s_1$               | 41  | #4   | 10'-5" | □        |
| $u_1$               | 8   | #6   | 11'-7" | ▢        |
| Concrete Structures |     |      | 11.9   | Cu. Yds. |
| Reinforcement Bars  |     |      | 1170   | Lb.      |

**NOTE**

Reinforcement bars shall conform to  
the requirements of A.A.S.H.T.O. M-31  
or M-322, Grade 60.

**P.P.C. DECK BEAMS  
PILE BENT PIER**

33' RDWY. 27" BMS.  $D'=25^\circ$  OR  $30^\circ$

STANDARD CP-3327-30

SHEET #30E (OF 67)

V-54

Illinois Department of Transportation

PASSED APRIL 4, 2005

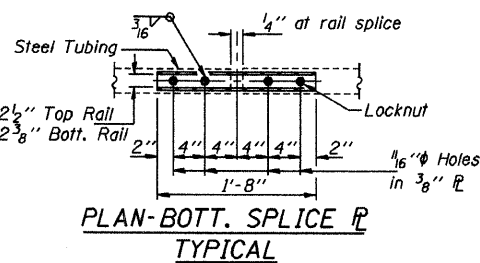
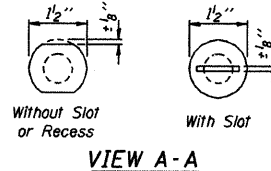
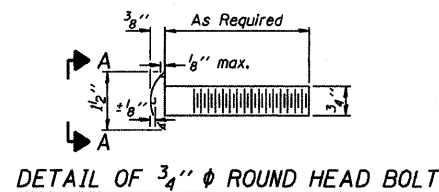
Thomas J. Romagnolo  
Engineer of Bridge Design

APPROVED APRIL 4, 2005

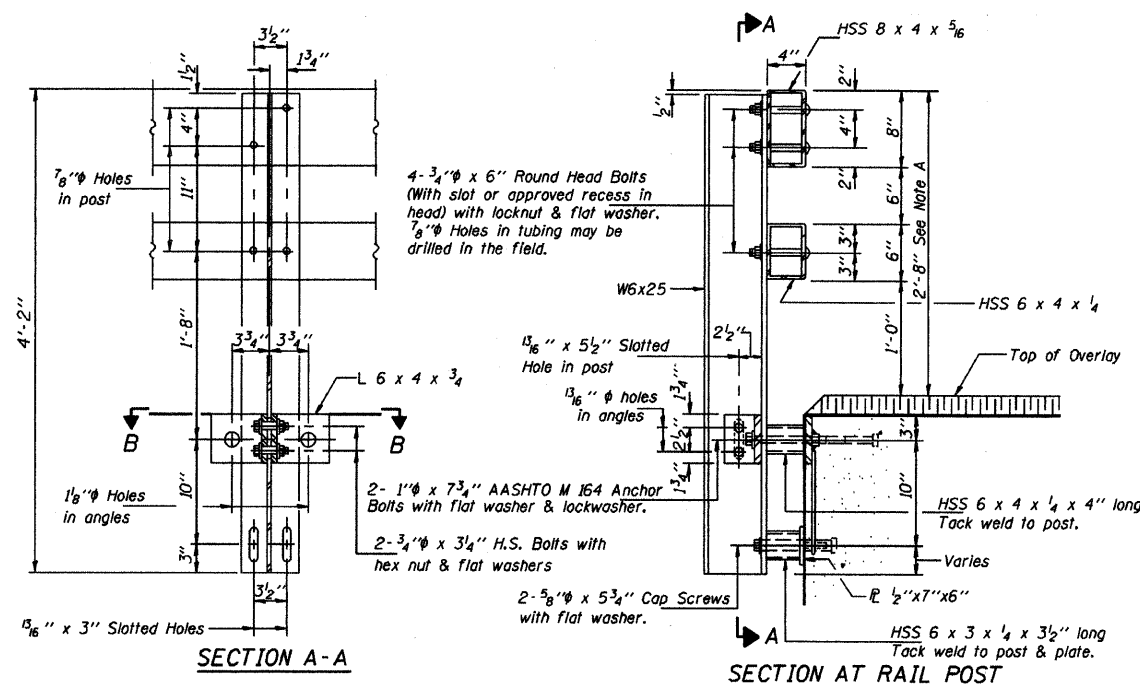
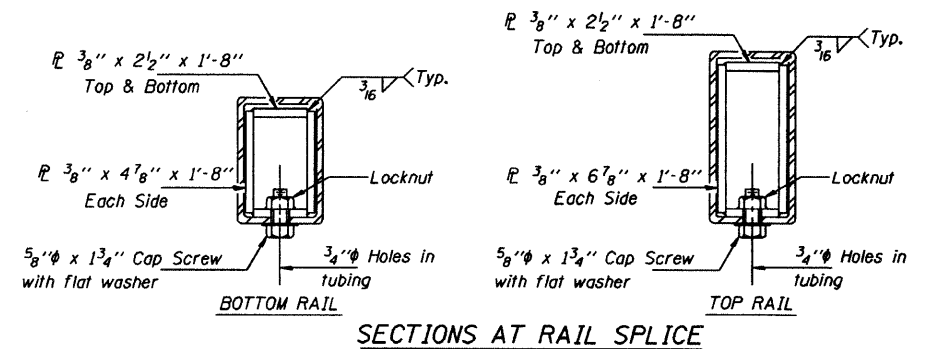
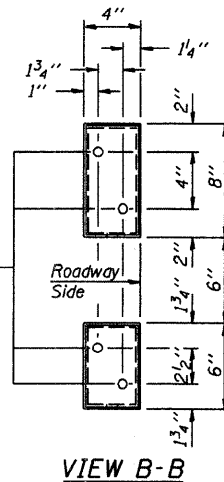
Ralph E. Robinson  
Engineer of Bridges and Structures

ISSUED 4-4-2005

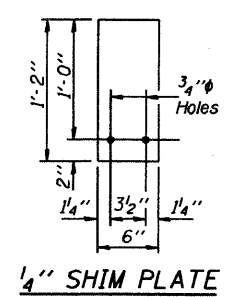
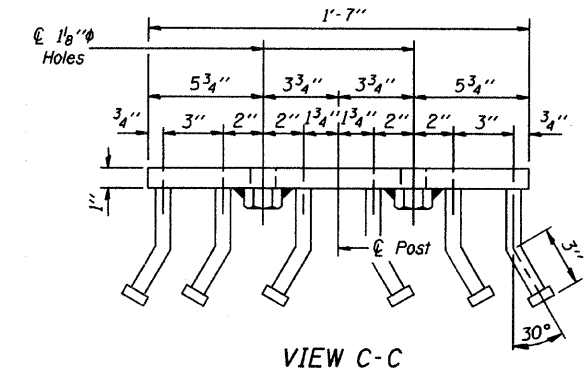
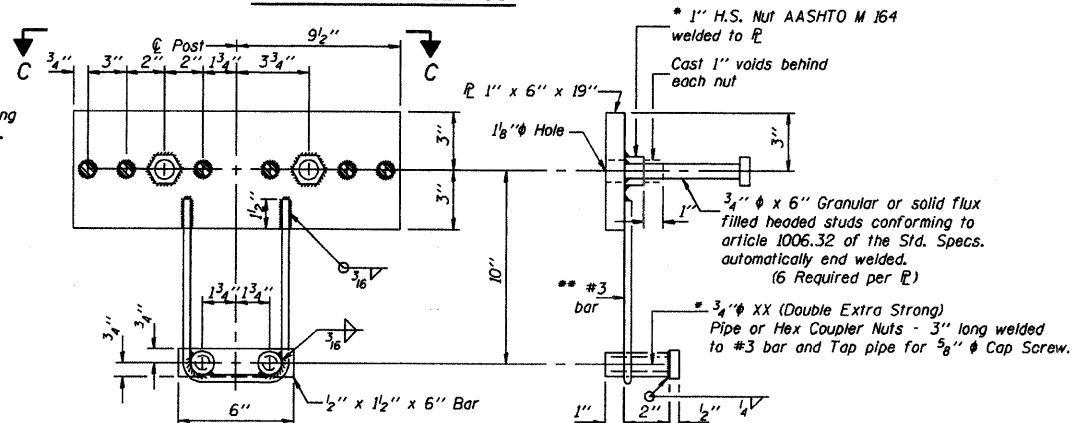
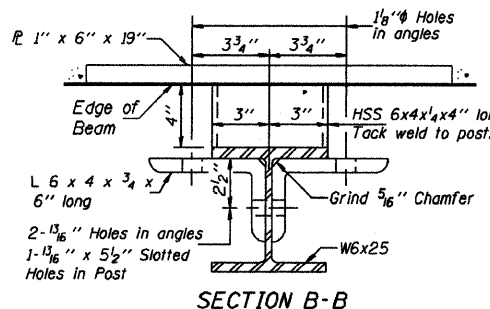
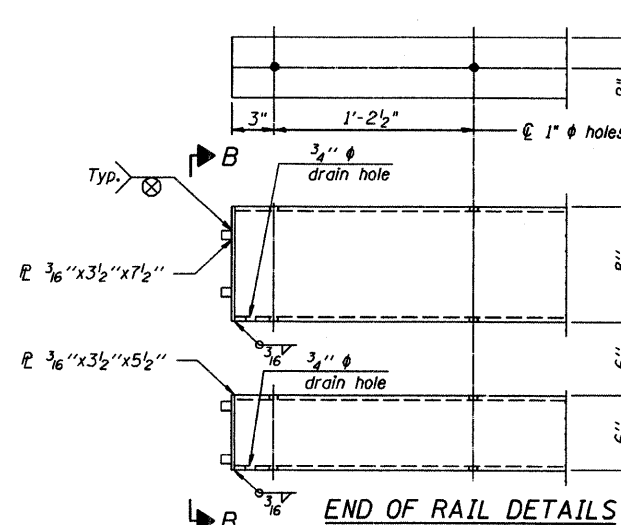




④ - 5/8\"/>



Note A:  
Where no overlay is to be provided, adjust top of rail to lay parallel to grade 2'-10\"/>



**NOTES**

Hollow structural steel tubing shall conform to the requirements of ASTM designation A 500 Grade B Structural Steel Tubing and shall meet the longitudinal CVN requirements of 15 ft-lbs at 0° F.

All other steel shapes and plates shall conform to the requirements of AASHTO M 270 Grade 36 except posts and angles shall conform to AASHTO M 270, Grade 50.

Bolts, cap screws, and nuts shall conform to the requirements of ASTM designation A 307 except for high strength bolts, nuts and washers noted which shall conform to AASHTO M 164.

All bolts, nuts, cap screws, washers and lock washers shall be galvanized according to AASHTO M 232.

All posts, railing, rail splices, anchor devices and angles shall be galvanized after shop fabrication according to AASHTO M 111 and ASTM A 385. Galvanized rail shall not be painted.

Railing shall be according to Section 509 of the Standard Specifications, except as noted, and will be paid for at the contract unit price per foot for STEEL RAILING, TYPE SM.

All field drilled holes shall be coated with an approved zinc rich paint before erection.

For multi-span bridges, sufficient 1/4\"/>

The 1/2\"/>

The 3/4\"/>

The Maximum allowable rail post spacing shall be 6'-3\"/>

Illinois Department of Transportation

PASSED APRIL 4, 2005

Theresa S. Romo

Engineer of Bridge Design

APPROVED APRIL 4, 2005

Ralph E. Anderson

Engineer of Bridges and Structures

ISSUED 7-1-B-5

**ANCHOR DEVICE**

\* Threaded areas shall be plugged or blocked off during casting of beam. Galvanized after fabrication.

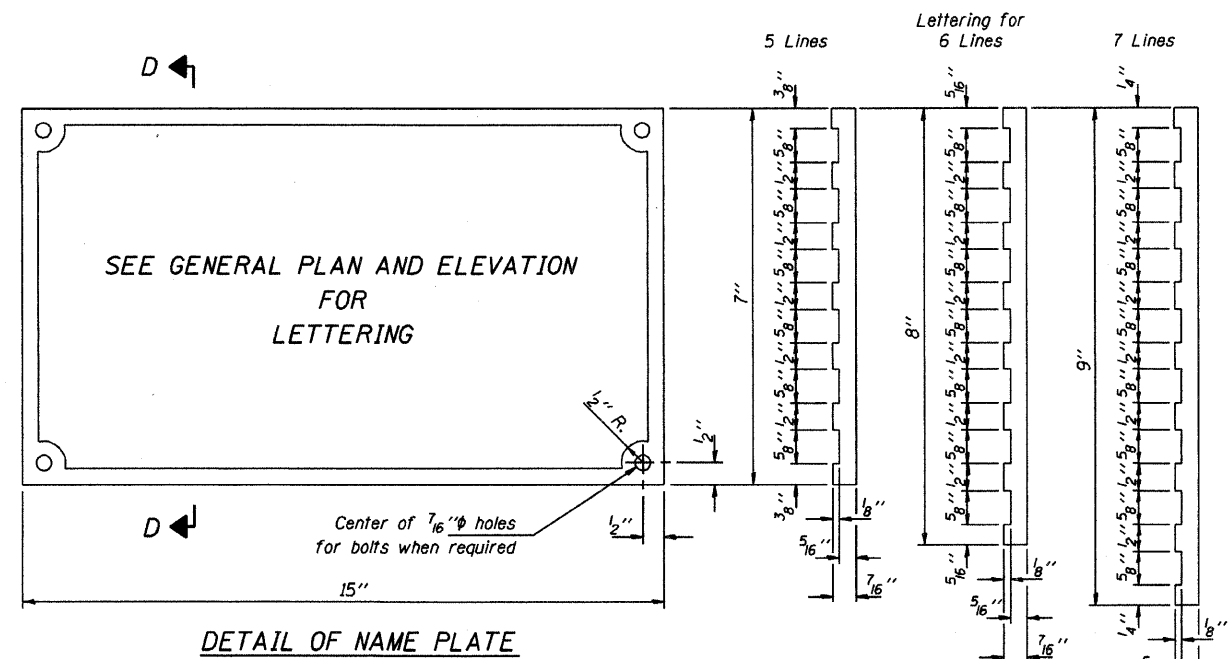
\*\* Whenever the lower insert assemblies interfere with strand locations, the #3 bars shall be cut and adjusted in order to allow raising or lowering of the lower inserts. Maximum adjustment not to exceed 1/2\"/>

STEEL BRIDGE RAIL, TYPE SM

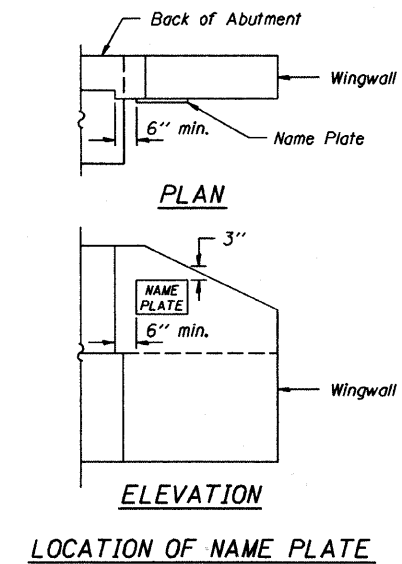
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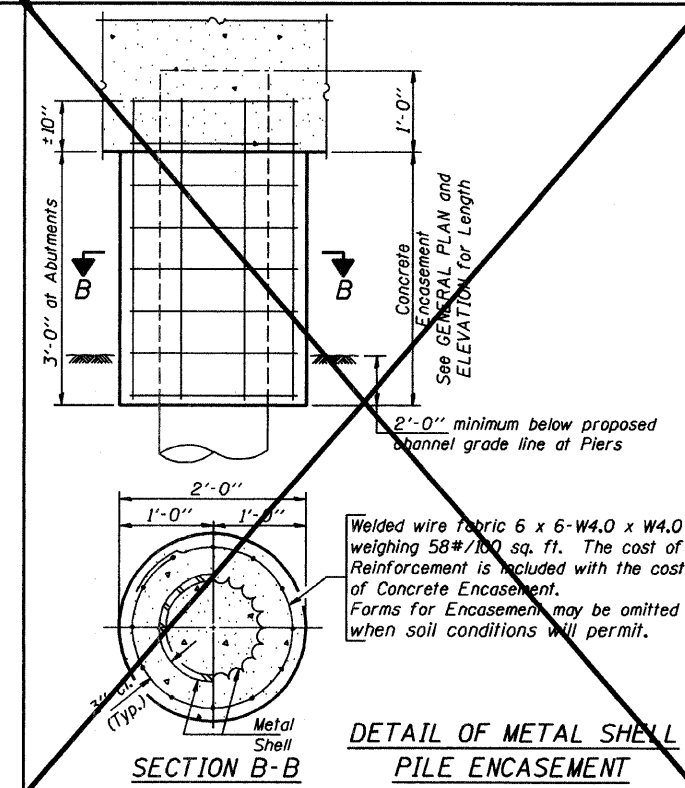
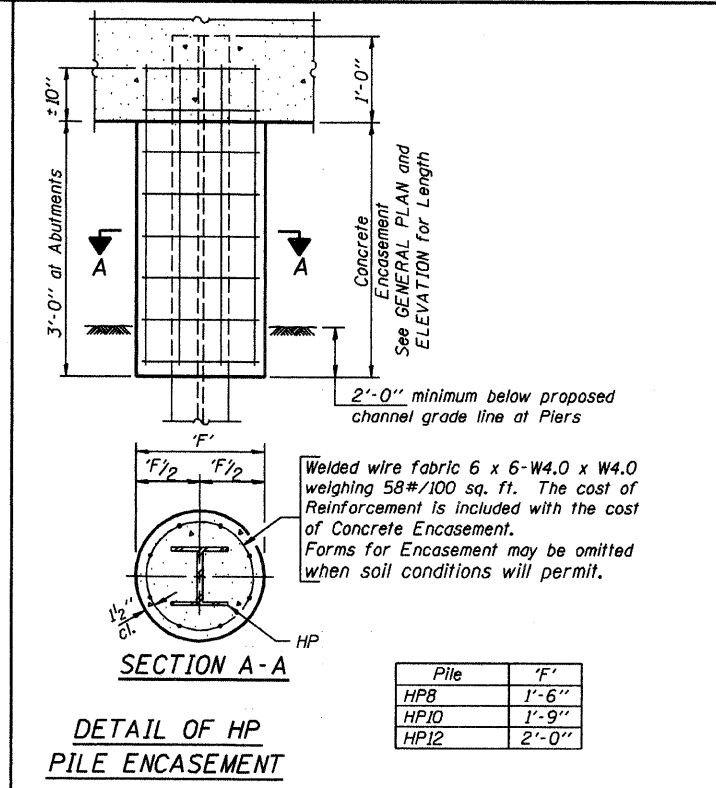
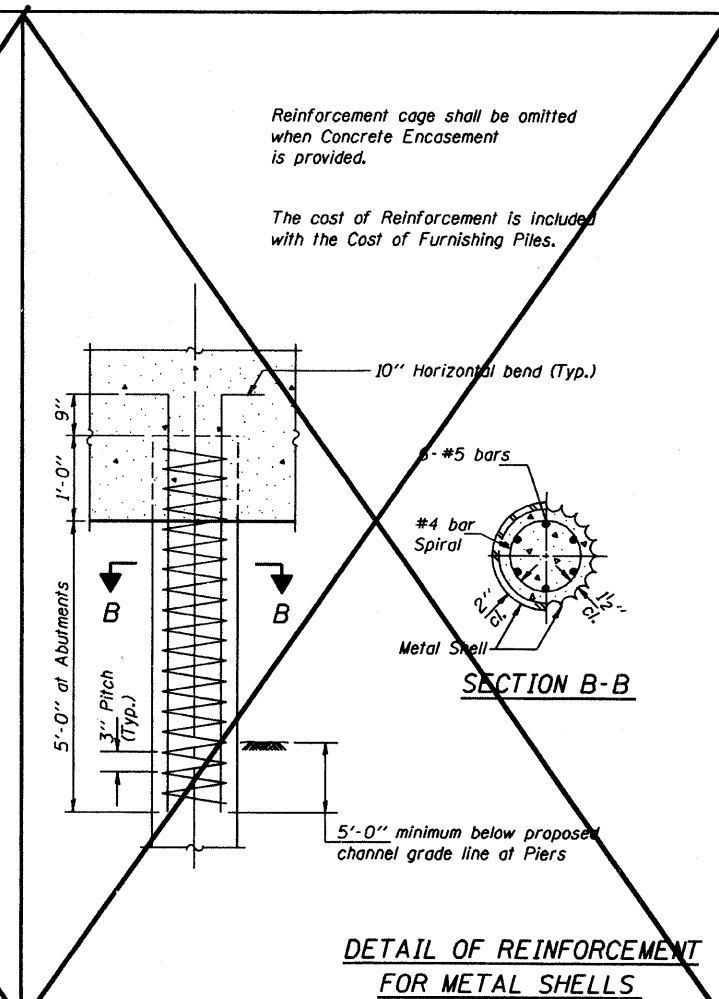
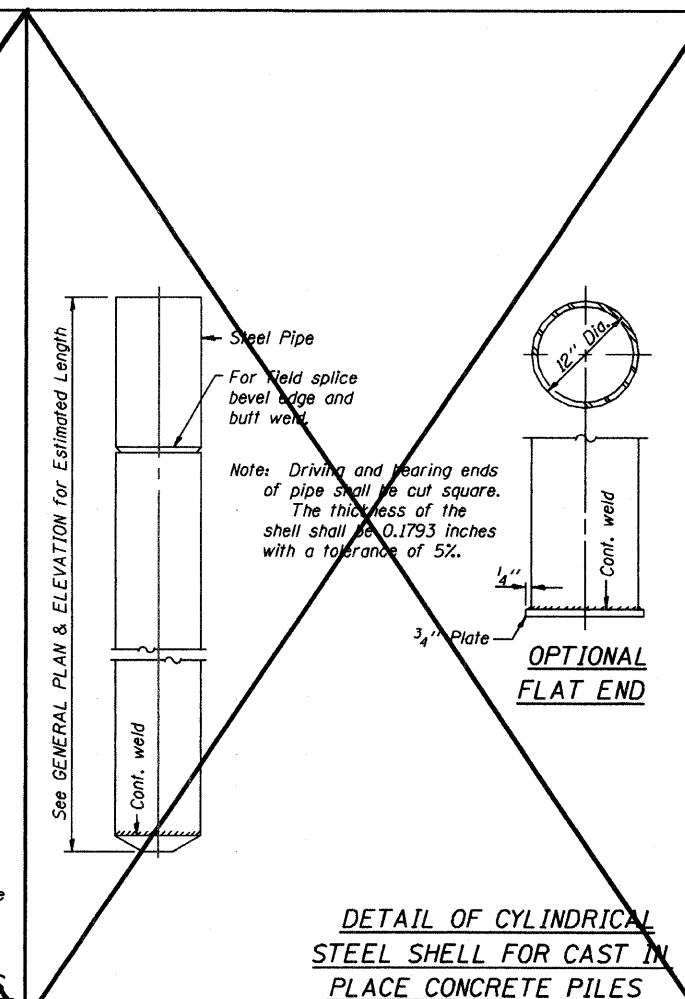
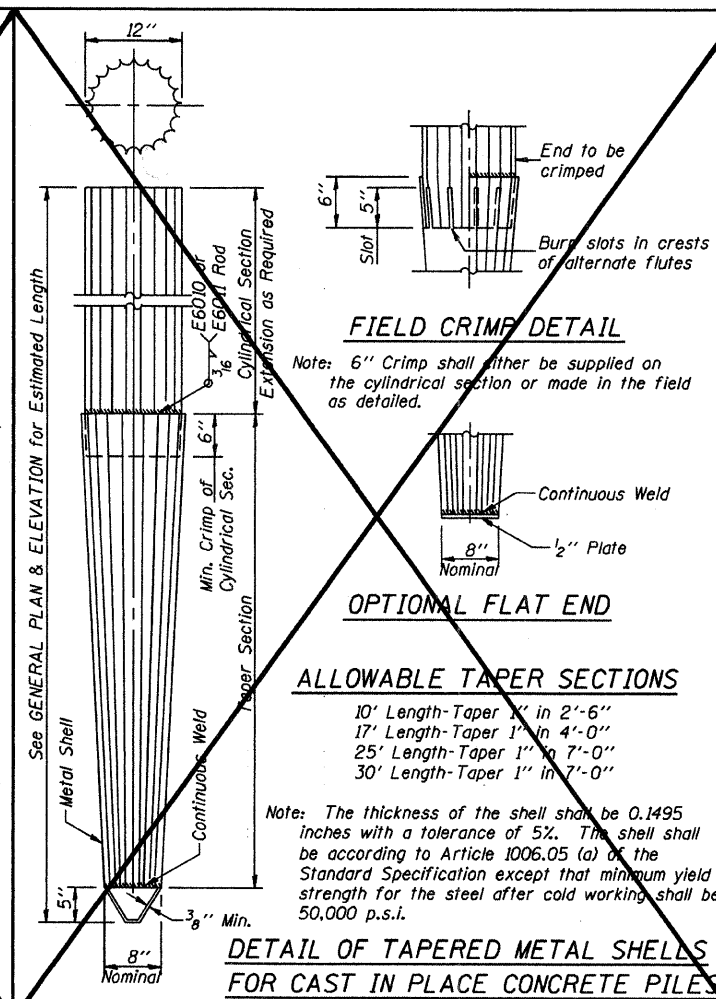
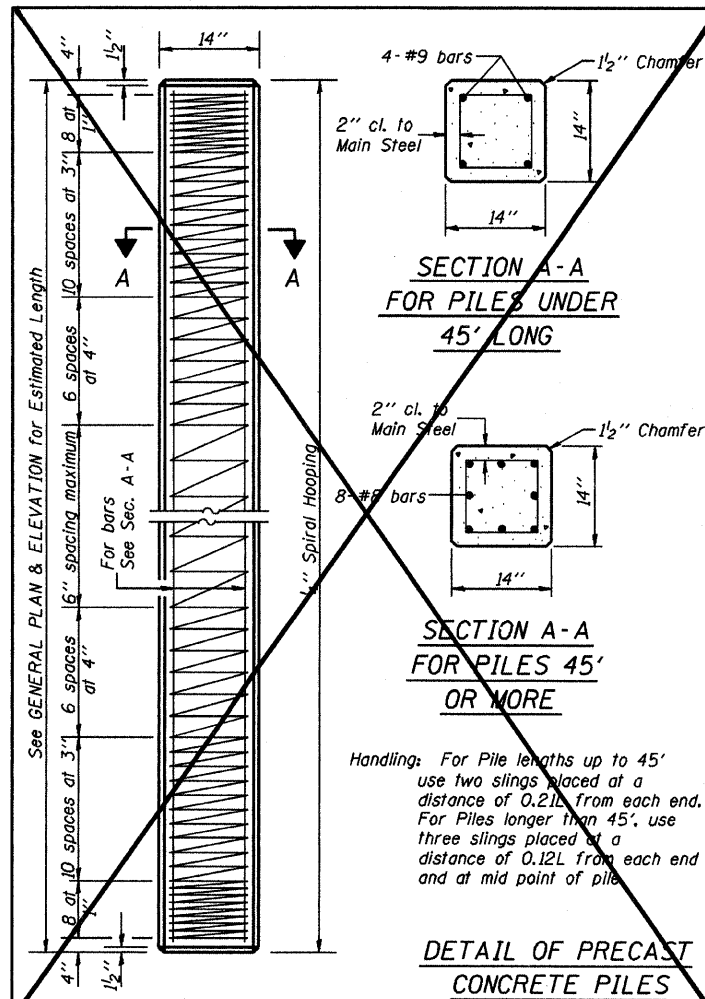
SHEET #30F (OF 67)

VI-2



Material: Best quality brass or bronze.  
Border & Lettering: Raised  $\frac{1}{8}$  inch. Square cut and not tapered. Top surface polished.  
Fastenings: Four lugs at least three inches long, cast on back of plate.





**QUANTITIES/FT. OF ENCASEMENT (STEEL PILES)**

| Pile Size | Item                | Quantity   |
|-----------|---------------------|------------|
| HP8       | Concrete Encasement | 0.063 C.Y. |
| HP10      | Concrete Encasement | 0.086 C.Y. |
| HP12      | Concrete Encasement | 0.112 C.Y. |

**(METAL SHELL PILES)**

| Pile Size | Item                | Quantity   |
|-----------|---------------------|------------|
| 12" Dia.  | Concrete Encasement | 0.087 C.Y. |

**PILE DETAILS**

**STANDARD CX-1**

| FIS ROUTE           | IDOT SECTION    | COUNTY |
|---------------------|-----------------|--------|
| 1857                | 04-00071-00-BR  | MONROE |
| FEDERAL AID PROJECT | ILLINOIS        |        |
| IDOT JOB NO.        | BR-RS-1857(121) |        |
| IDOT CONTRACT NO.   | 97323           |        |

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| PROFESSIONAL STRUCTURAL ENGR. CORP. | 81-005202   |
| ILLINOIS PROF. LAND SURVEYING CORP. | 048-000029  |
| MISSOURI PROFESSIONAL ENGR. CORP.   | NC 001528   |
| MISSOURI LAND SURVEYING CORP.       | NC 000346   |

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Expiration Date: \_\_\_\_\_  
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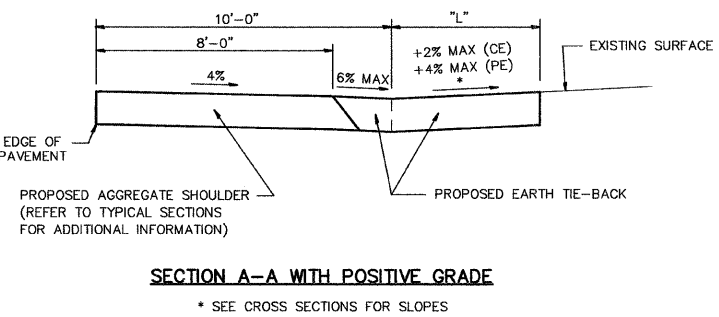
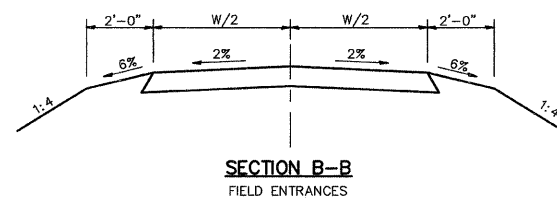
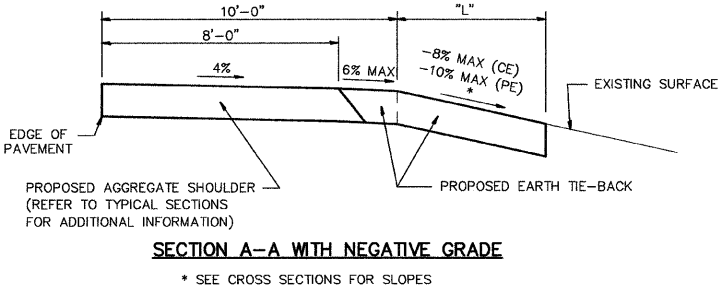
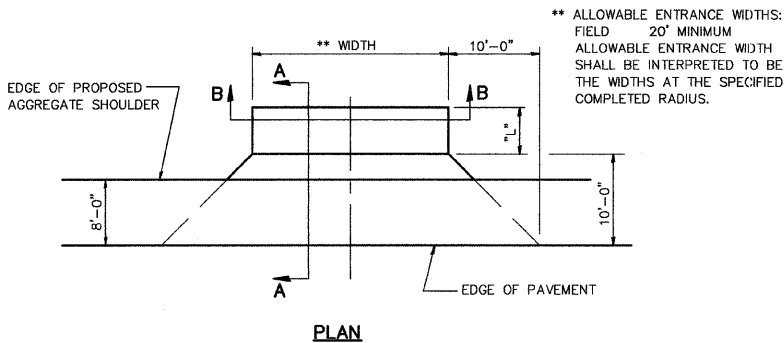
**ENTRANCE, BUTT-JOINT,  
AND RUMBLE STRIP  
DETAILS**

**BLUFF ROAD (CTY. HWY. 6)  
BRIDGE REPLACEMENT  
OVER FOUNTAIN CREEK  
MONROE COUNTY, IL**

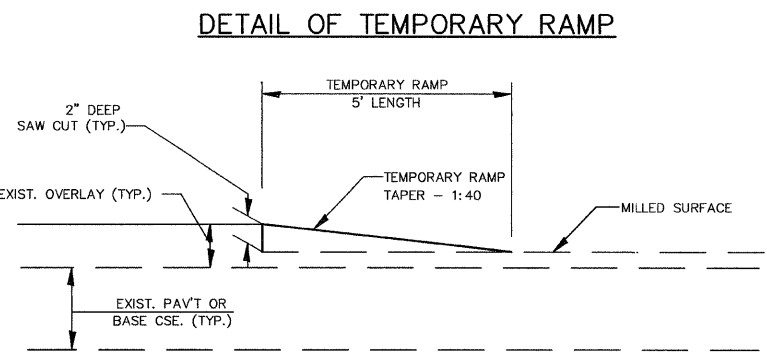
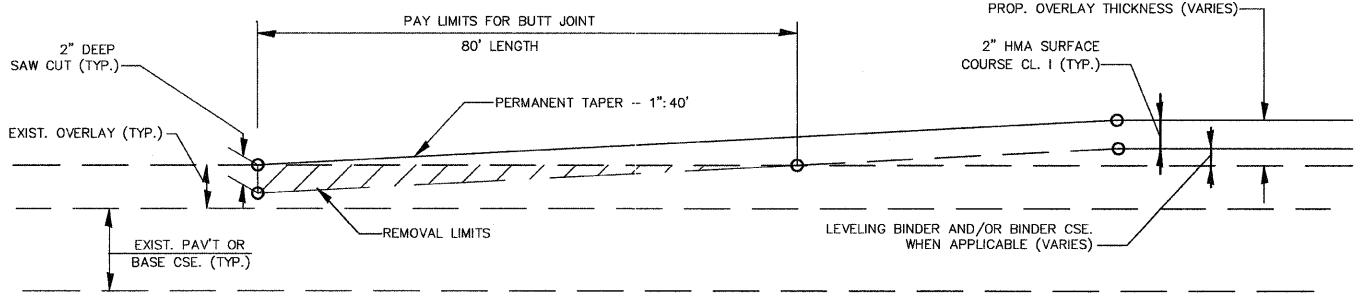
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|------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|
| DRAWN BY: KBF/JWS<br>DESIGNED BY: BJK<br>CHECKED BY: SJK<br>APPROVED BY: SJK                         | SHEET<br><b>31</b><br>OF 67 SHEETS<br>PROJECT DESCRIPTION<br>BLUFF RD. BRIDGE<br>OVER FOUNTAIN CRK.<br>PROJECT NUMBER 116-040125 |
| <input type="checkbox"/> ISSUED FOR REVIEW<br><input checked="" type="checkbox"/> ISSUED FOR CONSTR. | <input type="checkbox"/> ISSUED FOR BIDDING<br><input type="checkbox"/> RECORD DRAWING                                           |

# DETAIL OF FIELD ENTRANCES (10' AGGREGATE APRON) W/ BITUMINOUS SHOULDERS

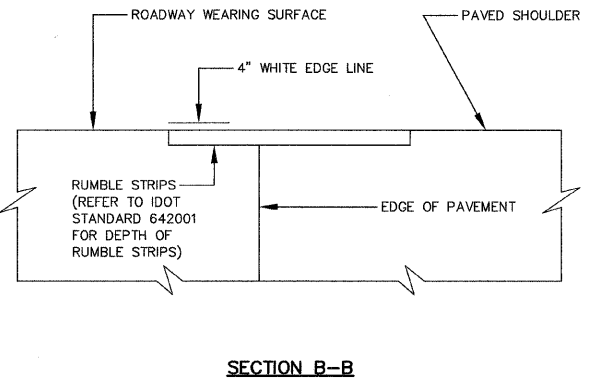
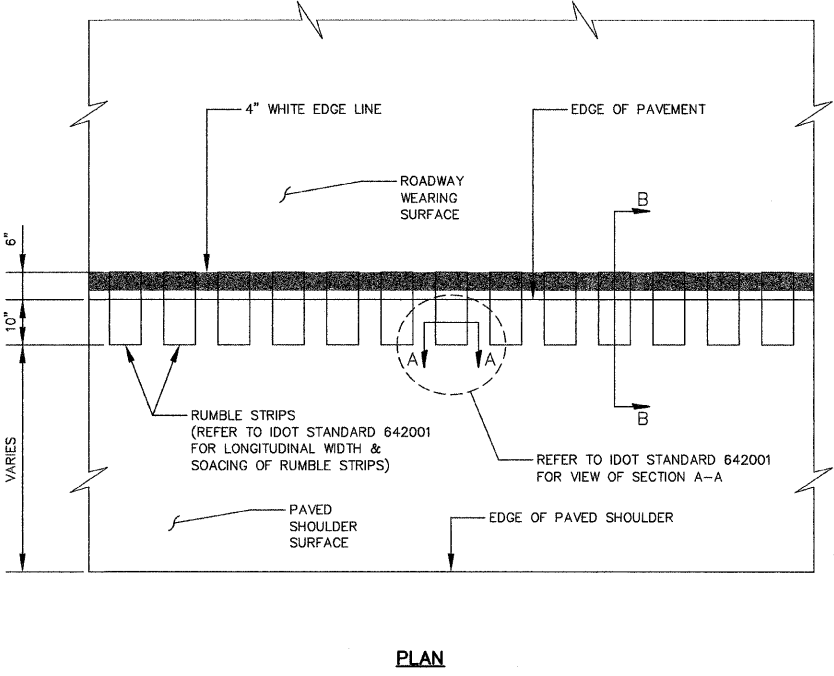


## DETAIL OF BUTT-JOINTS/FEATHERED EDGES

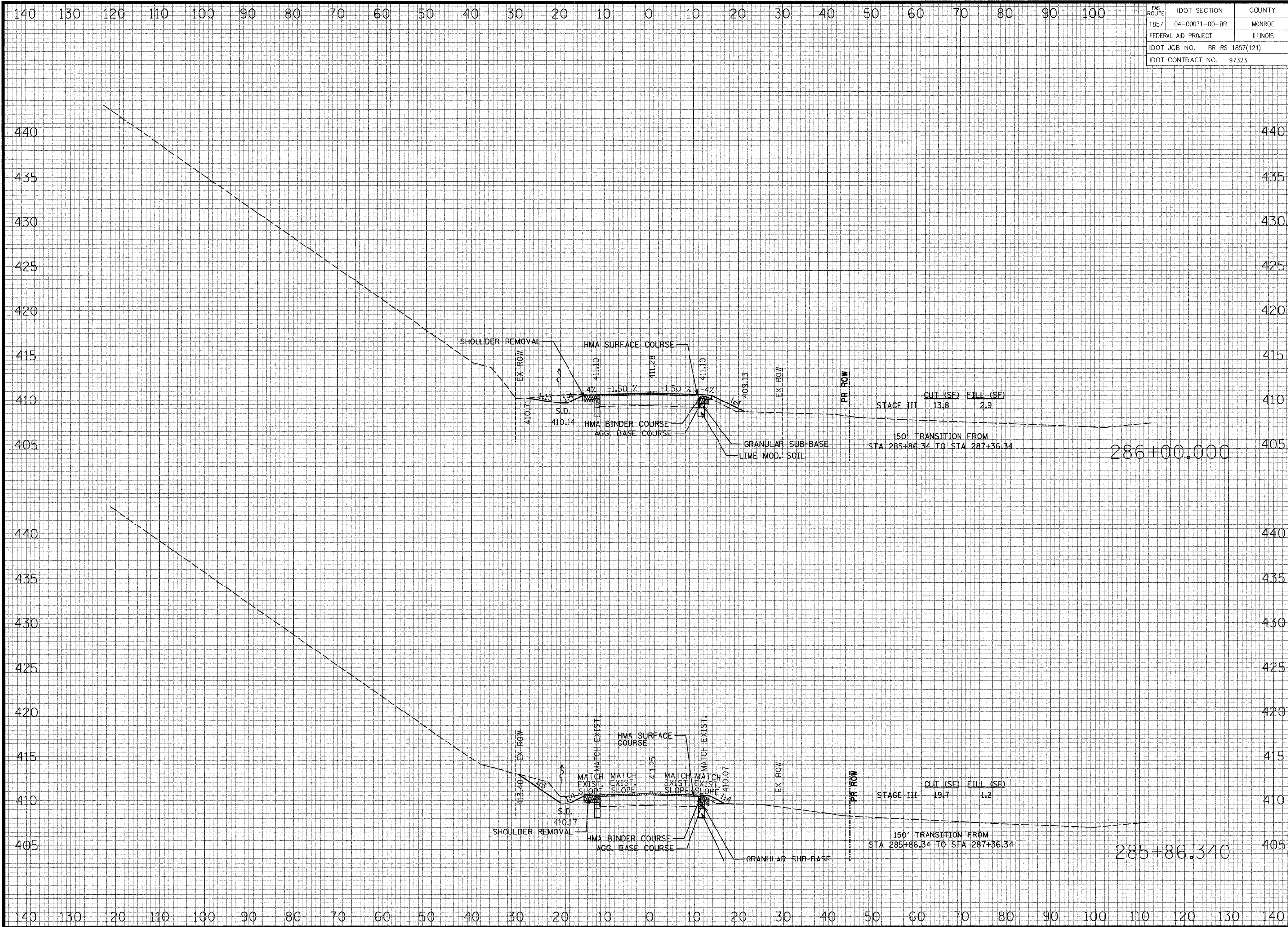


- GENERAL NOTES**
- THE WORK SHALL BE DONE ACCORDING TO ARTICLE 406.08 OF THE LATEST EDITION OF THE STANDARD SPECIFICATIONS FOR ROAD & BRIDGE CONSTRUCTION.
  - THE PAVEMENT SURFACE TO BE REMOVED MAY BE EITHER HOT ASPHALT MIX OR P.C. CONCRETE. THE WORK SHALL BE PERFORMED ACCORDING TO ARTICLE 440.03 AND THE SPECIAL PROVISIONS FOR BUTT JOINTS.
  - THE SAW CUT JOINT SHALL BE PRIMED JUST PRIOR TO THE PLACING OF HOT ASPHALT MIX. THE WORK SHALL BE ACCORDING TO THE APPLICABLE PORTIONS OF ARTICLE 406.06.
  - COST OF SAW CUTS SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE OF HOT ASPHALT MIX SURFACE REMOVAL - BUTT JOINT.

## DETAIL OF RUMBLE STRIPS (LOCATION MODIFIED FROM IDOT STANDARD 642001)







| FS ROUTE                     | IDOT SECTION   | COUNTY   |
|------------------------------|----------------|----------|
| 1857                         | 04-00071-00-BR | MONROE   |
| FEDERAL AID PROJECT          |                | ILLINOIS |
| IDOT JOB NO. BR-RS-1857(121) |                |          |
| IDOT CONTRACT NO. 97323      |                |          |

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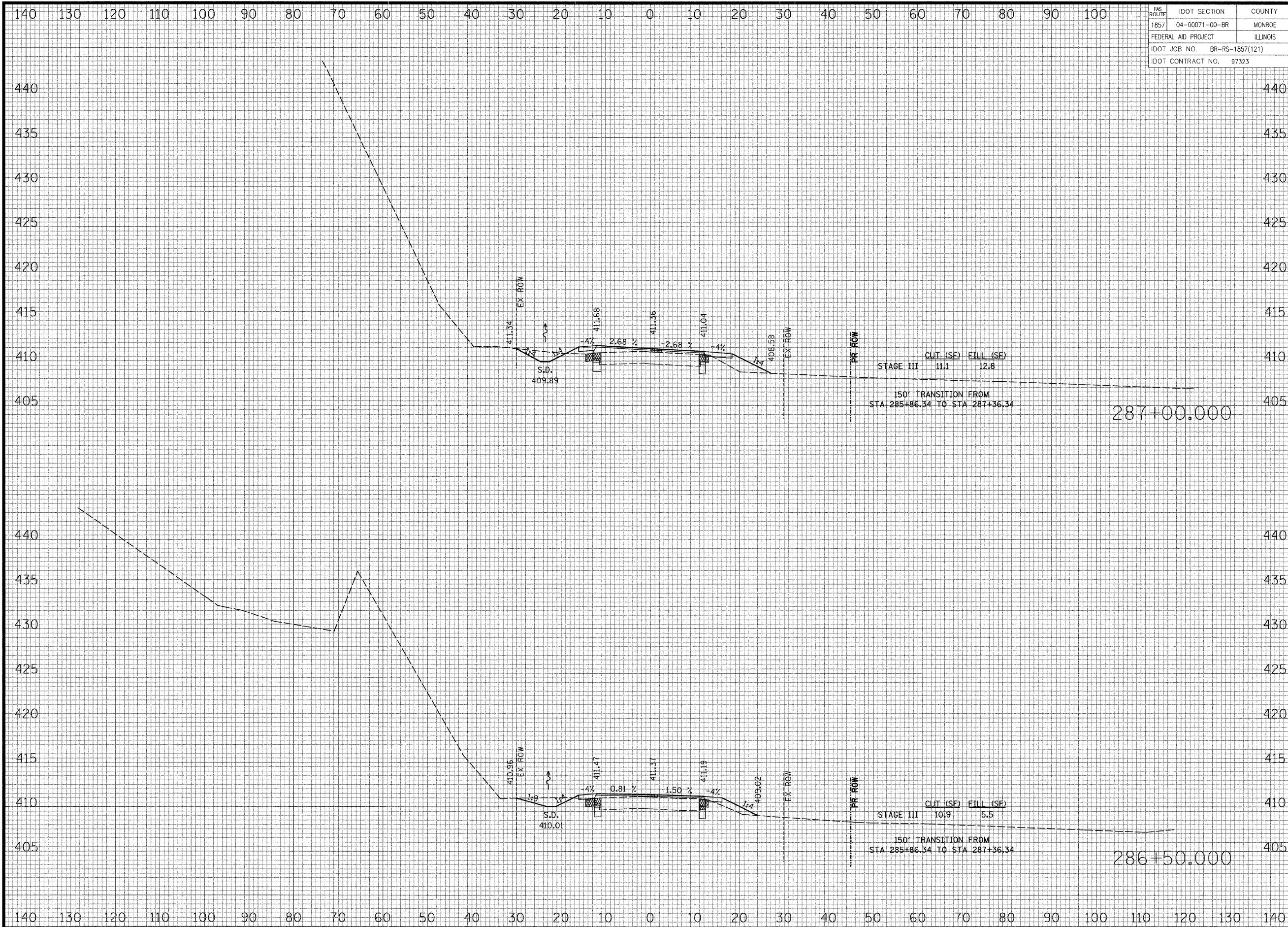
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CROSS SECTIONS  
BLUFF ROAD  
BLUFF ROAD (CTY. HWY. 6)  
BRIDGE REPLACEMENT  
OVER FOUNTAIN CREEK  
MONROE COUNTY, IL

| REV. | DATE | DESCRIPTION |
|------|------|-------------|
| △    |      |             |
| △    |      |             |
| △    |      |             |

|                                                        |                                             |
|--------------------------------------------------------|---------------------------------------------|
| DRAWN BY: KBF/JWS                                      | SHEET 32                                    |
| DESIGNED BY: BJC                                       | OF 67 SHEETS                                |
| CHECKED BY: SJK                                        | PROJECT DESCRIPTION                         |
| APPROVED BY: SJK                                       | BLUFF RD. BRIDGE                            |
| PROJECT NUMBER: 16-040125                              | OVER FOUNTAIN CRK.                          |
| <input type="checkbox"/> ISSUED FOR REVIEW             | <input type="checkbox"/> ISSUED FOR BIDDING |
| <input checked="" type="checkbox"/> ISSUED FOR CONSTR. | <input type="checkbox"/> RECORD DRAWING     |





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|------------------------------|----------------|----------|
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| FEDERAL AID PROJECT          |                | ILLINOIS |
| IDOT JOB NO. BR-RS-1857(121) |                |          |
| IDOT CONTRACT NO. 97323      |                |          |

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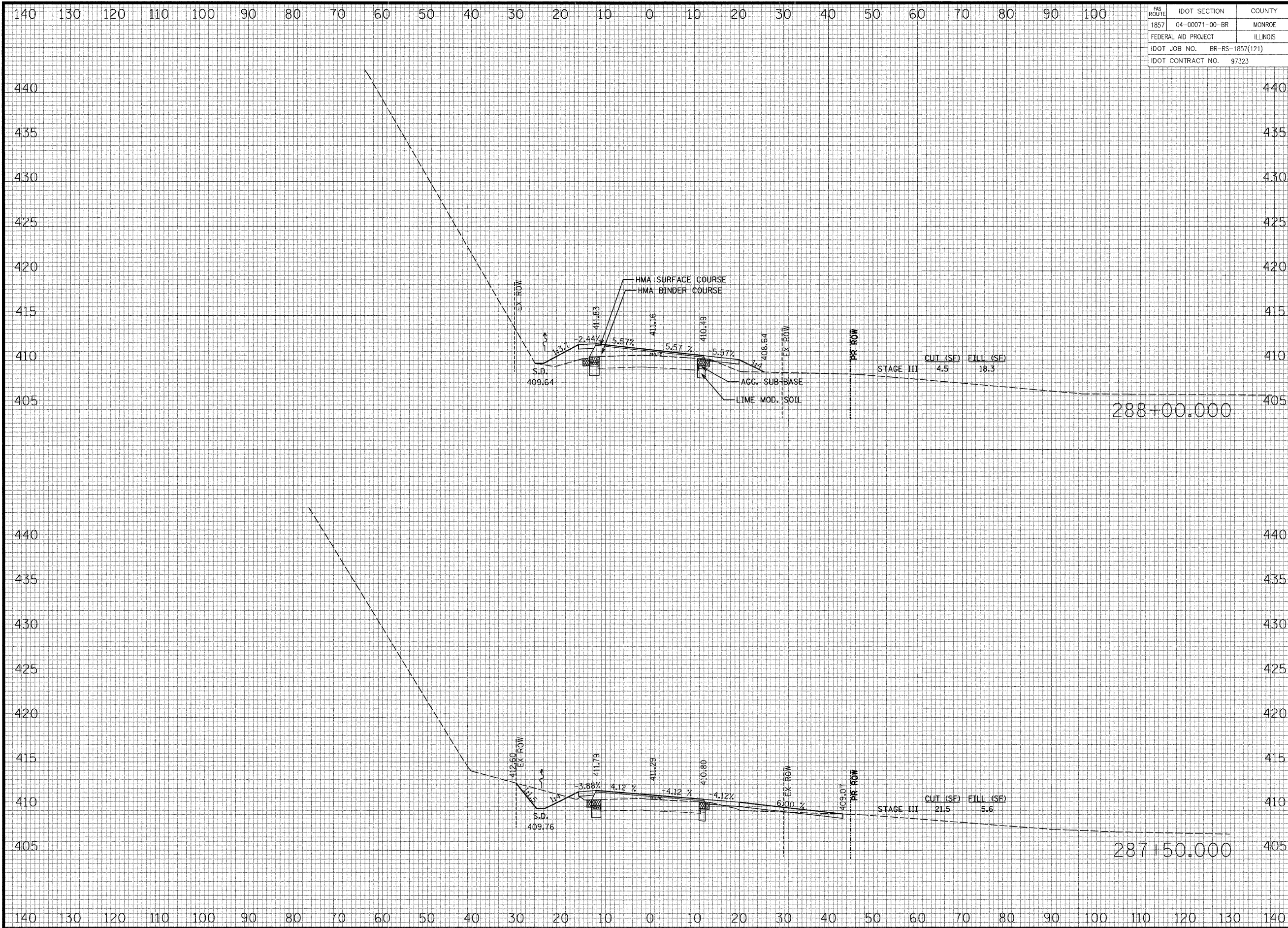
**CROSS SECTIONS**  
**BLUFF ROAD**

**PROJECT:**  
**BLUFF ROAD (CTY. HWY. 6)**  
**BRIDGE REPLACEMENT**  
**OVER FOUNTAIN CREEK**  
**MONROE COUNTY, IL**

| REV. | DATE | DESCRIPTION |
|------|------|-------------|
| △    |      |             |
| △    |      |             |
| △    |      |             |

|                                                        |                                                          |
|--------------------------------------------------------|----------------------------------------------------------|
| DRAWN BY: KBF/JWS                                      | SHEET 33                                                 |
| DESIGNED BY: BJC                                       | OF 67 SHEETS                                             |
| CHECKED BY: SJK                                        |                                                          |
| APPROVED BY: SJK                                       |                                                          |
| PROJECT NUMBER: 16-040125                              | PROJECT DESCRIPTION: BLUFF RD. BRIDGE OVER FOUNTAIN CRK. |
| <input type="checkbox"/> ISSUED FOR REVIEW             | <input type="checkbox"/> ISSUED FOR BIDDING              |
| <input checked="" type="checkbox"/> ISSUED FOR CONSTR. | <input type="checkbox"/> RECORD DRAWING                  |





| AS ROUTE                     | IDOT SECTION   | COUNTY   |
|------------------------------|----------------|----------|
| 1857                         | 04-00071-00-BR | MONROE   |
| FEDERAL AID PROJECT          |                | ILLINOIS |
| IDOT JOB NO. BR-RS-1857(121) |                |          |
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BLUFF ROAD  
BLUFF ROAD (CTY. HWY. 6)  
BRIDGE REPLACEMENT  
OVER FOUNTAIN CREEK  
MONROE COUNTY, IL

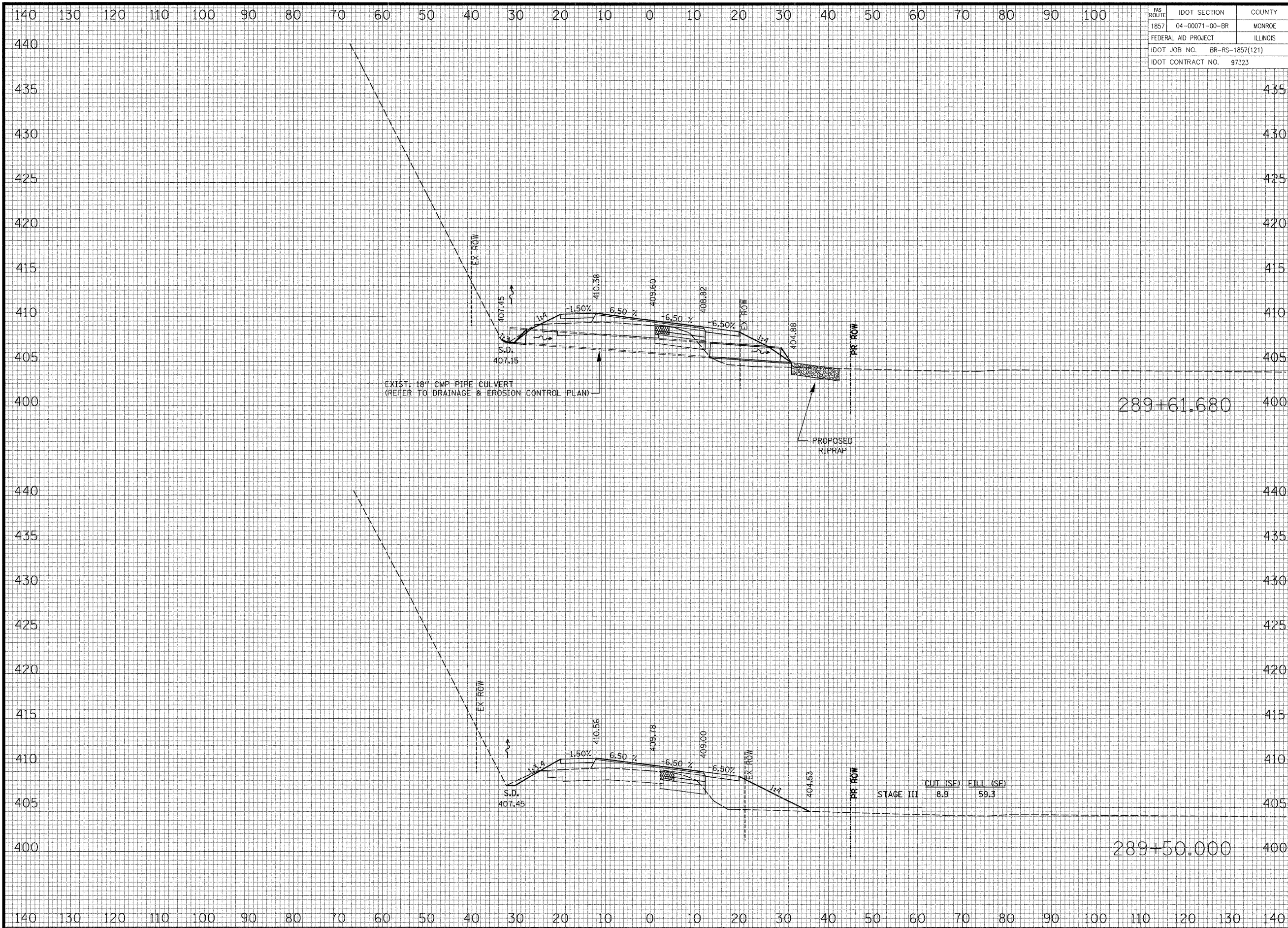
| REV. | DATE | DESCRIPTION |
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|--------------------------------------------------------|---------------------------------------------|
| DRAWN BY: KBF/JWS                                      | SHEET 34                                    |
| DESIGNED BY: BJC                                       | OF 67 SHEETS                                |
| CHECKED BY: SJK                                        |                                             |
| APPROVED BY: SJK                                       | PROJECT DESCRIPTION                         |
| PROJECT NUMBER: 16-040125                              | BLUFF RD. BRIDGE OVER FOUNTAIN CRK.         |
| <input type="checkbox"/> ISSUED FOR REVIEW             | <input type="checkbox"/> ISSUED FOR BIDDING |
| <input checked="" type="checkbox"/> ISSUED FOR CONSTR. | <input type="checkbox"/> RECORD DRAWING     |









|                              |                |        |
|------------------------------|----------------|--------|
| FAS ROUTE                    | IDOT SECTION   | COUNTY |
| 1857                         | 04-00071-00-BR | MONROE |
| FEDERAL AID PROJECT          |                |        |
| ILLINOIS                     |                |        |
| IDOT JOB NO. BR-RS-1857(121) |                |        |
| IDOT CONTRACT NO. 97323      |                |        |

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| PROFESSIONAL REGISTRATIONS          | LICENSE NO. |
|-------------------------------------|-------------|
| ILLINOIS PROFESSIONAL DESIGN FIRM   | 184-001220  |
| PROFESSIONAL ENGINEERING CORP.      | 62-035370   |
| PROFESSIONAL STRUCTURAL ENGR. CORP. | 81-005202   |
| ILLINOIS PROF. LAND SURVEYING CORP. | 048-000029  |
| MISSOURI PROFESSIONAL ENGR. CORP.   | NC 001528   |
| MISSOURI LAND SURVEYING CORP.       | NC 000346   |

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Signature Date: \_\_\_\_\_  
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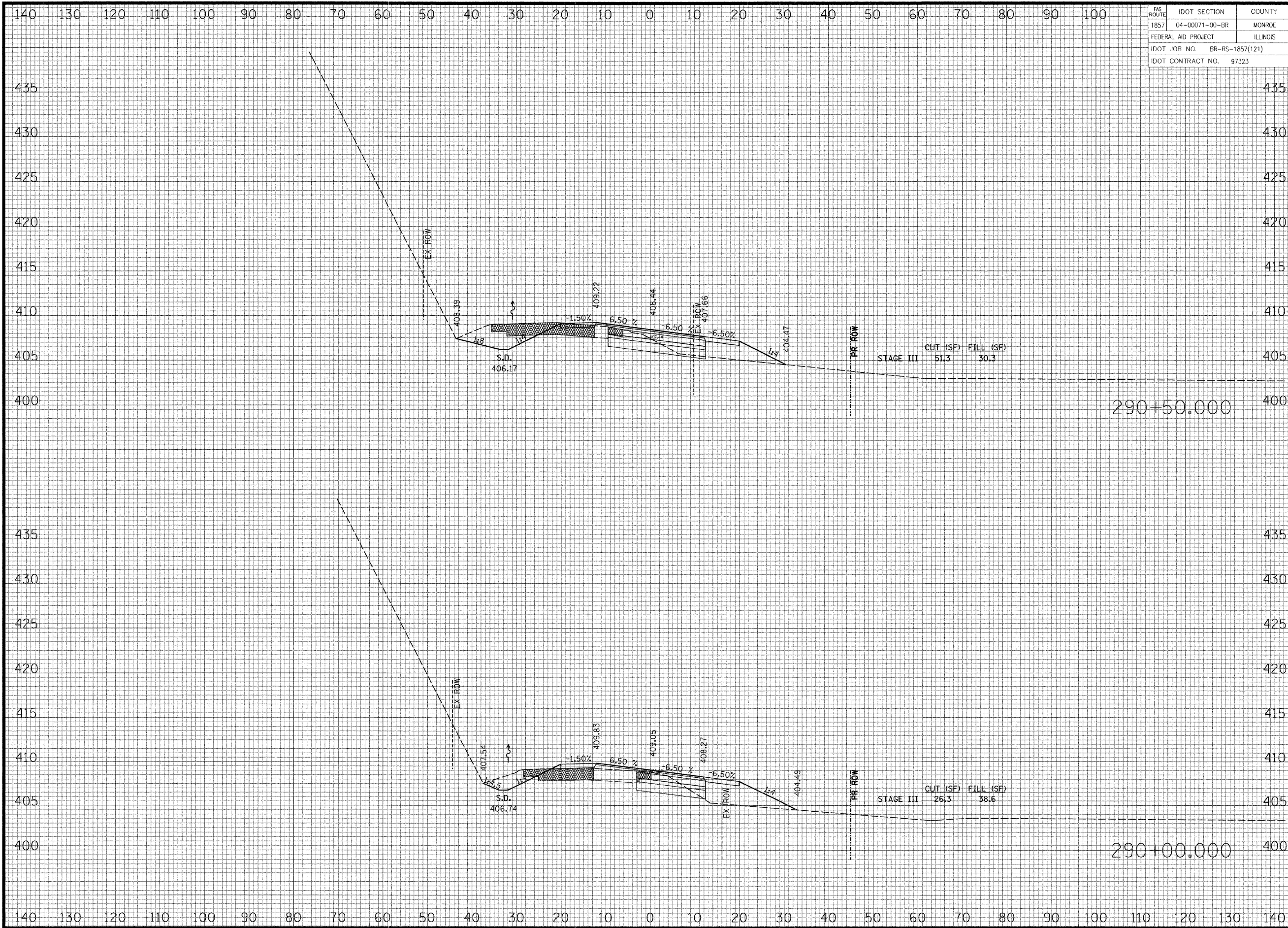
**CROSS SECTIONS**  
**BLUFF ROAD**

**PROJECT:**  
**BLUFF ROAD (CTY. HWY. 6)**  
**BRIDGE REPLACEMENT**  
**OVER FOUNTAIN CREEK**  
**MONROE COUNTY, IL**

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|--------------------------------------------------------|---------------------------------------------|
| CRAWN BY: KBF/JWS                                      | SHEET                                       |
| DESIGNED BY: BJC                                       | <b>36</b>                                   |
| CHECKED BY: SJK                                        | OF 67 SHEETS                                |
| APPROVED BY: SJK                                       | PROJECT DESCRIPTION                         |
| PROJECT NUMBER: 116-040125                             | BLUFF RD. BRIDGE OVER FOUNTAIN CRK.         |
| <input type="checkbox"/> ISSUED FOR REVIEW             | <input type="checkbox"/> ISSUED FOR BIDDING |
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|------------------------------|----------------|--------|
| FAS ROUTE                    | IDOT SECTION   | COUNTY |
| 1857                         | 04-00071-00-BR | MONROE |
| FEDERAL AID PROJECT          |                |        |
| ILLINOIS                     |                |        |
| IDOT JOB NO. BR-RS-1857(121) |                |        |
| IDOT CONTRACT NO. 97323      |                |        |

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| PROFESSIONAL ENGINEERING CORP.      | 62-035370   |
| PROFESSIONAL STRUCTURAL ENGR. CORP. | 81-005202   |
| ILLINOIS PROF. LAND SURVEYING CORP. | 048-000029  |
| MISSOURI PROFESSIONAL ENGR. CORP.   | NC 001528   |
| MISSOURI LAND SURVEYING CORP.       | NC 000346   |

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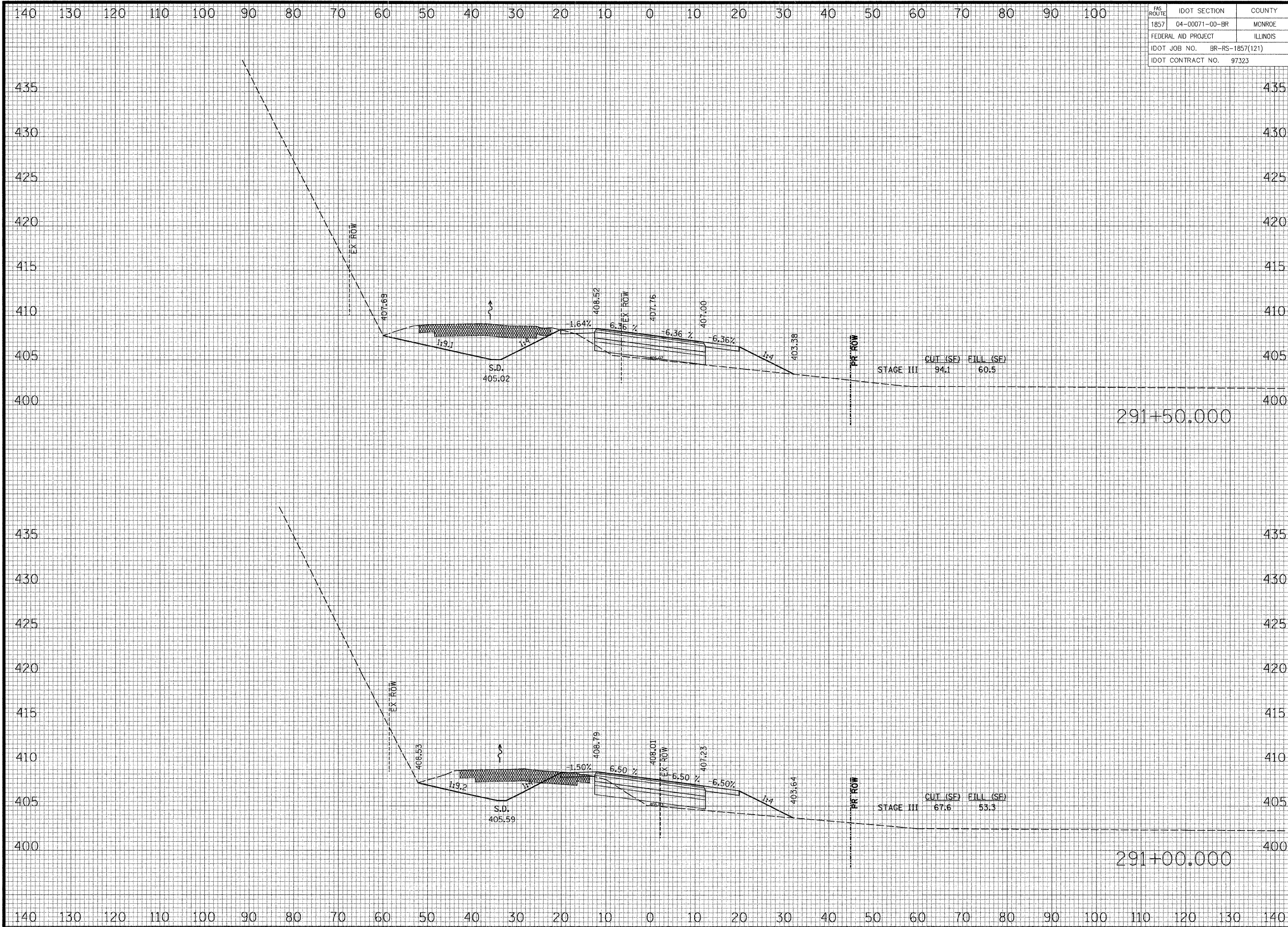
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**BLUFF ROAD**  
**BLUFF ROAD (CTY. HWY. 6)**  
**BRIDGE REPLACEMENT**  
**OVER FOUNTAIN CREEK**  
**MONROE COUNTY, IL**

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| DRAWN BY: KBF/JWS                                      | SHEET                                       |
| DESIGNED BY: BJC                                       | <b>37</b>                                   |
| CHECKED BY: SJK                                        | OF 67 SHEETS                                |
| APPROVED BY: SJK                                       | PROJECT DESCRIPTION                         |
| PROJECT NUMBER: 116-040125                             | BLUFF RD. BRIDGE OVER FOUNTAIN CRK.         |
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| FAS ROUTE                    | IDOT SECTION   | COUNTY   |
|------------------------------|----------------|----------|
| 1857                         | 04-00071-00-BR | MONROE   |
| FEDERAL AID PROJECT          |                | ILLINOIS |
| IDOT JOB NO. BR-RS-1857(121) |                |          |
| IDOT CONTRACT NO. 97323      |                |          |

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| MISSOURI LAND SURVEYING CORP.       | NC 000346   |

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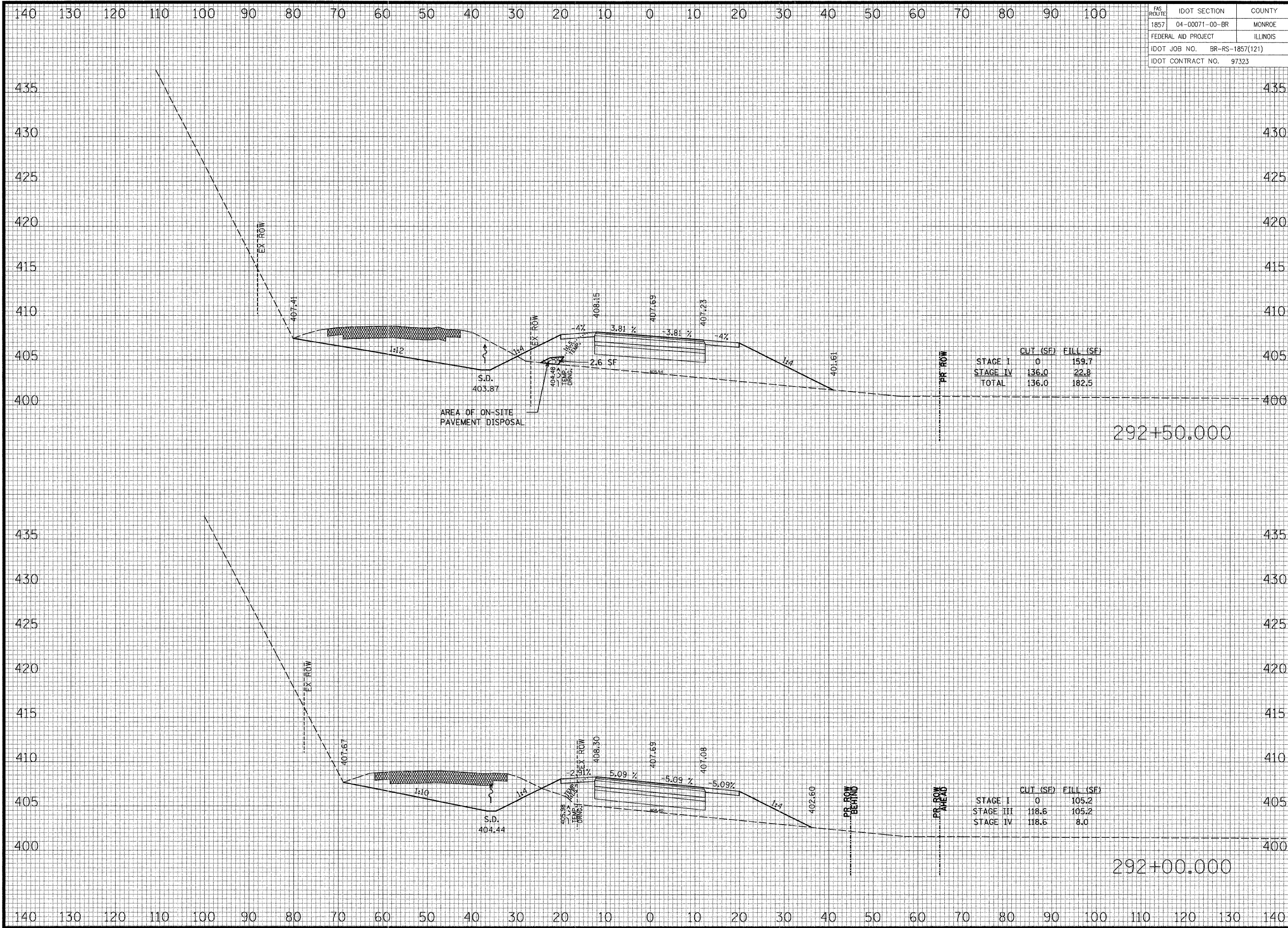
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**BRIDGE REPLACEMENT**  
**OVER FOUNTAIN CREEK**  
**MONROE COUNTY, IL**

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| DRAWN BY: KBF/JWS                                      | SHEET                                       |
| DESIGNED BY: BJC                                       | 38                                          |
| CHECKED BY: SJK                                        | OF 67 SHEETS                                |
| APPROVED BY: SJK                                       | PROJECT DESCRIPTION                         |
| PROJECT NUMBER: 116-040125                             | BLUFF RD. BRIDGE OVER FOUNTAIN CRK.         |
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| FAS ROUTE                    | IDOT SECTION   | COUNTY |
| 1857                         | 04-00071-00-BR | MONROE |
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| ILLINOIS                     |                |        |
| IDOT JOB NO. BR-RS-1857(121) |                |        |
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| MISSOURI LAND SURVEYING CORP.       | NC 000346   |

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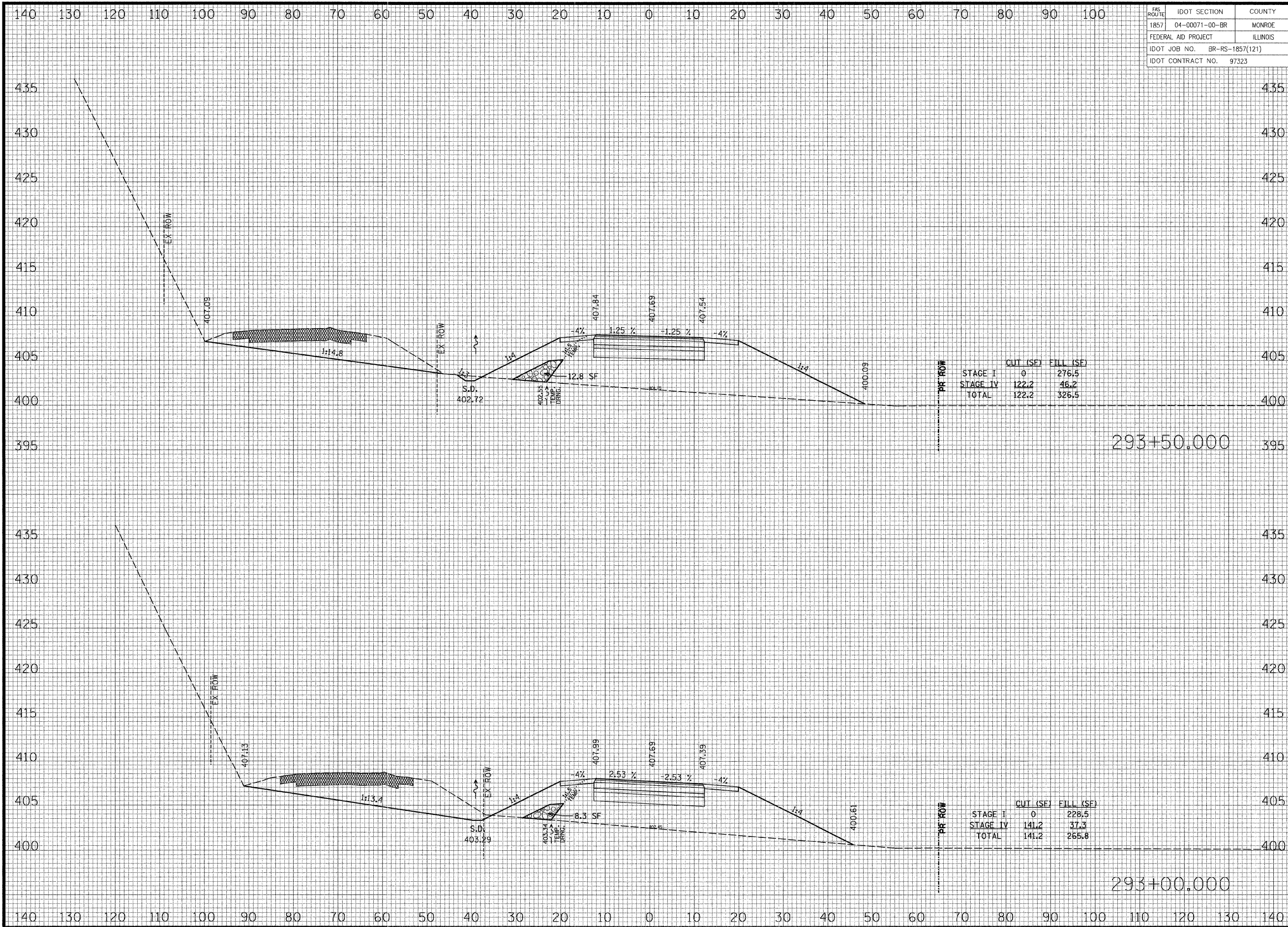
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BLUFF ROAD (CTY. HWY. 6)  
BRIDGE REPLACEMENT  
OVER FOUNTAIN CREEK  
MONROE COUNTY, IL

| REV. | DATE | DESCRIPTION |
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DRAWN BY: KBF/JWS  
DESIGNED BY: BJK  
CHECKED BY: SJK  
APPROVED BY: SJK  
PROJECT NUMBER: 16-040125  
PROJECT DESCRIPTION: BLUFF RD. BRIDGE OVER FOUNTAIN CRK.  
SHEET 39 OF 67 SHEETS  
ISSUED FOR REVIEW  
ISSUED FOR BIDDING  
ISSUED FOR CONSTR.  
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| FAS ROUTE                    | IDOT SECTION   | COUNTY |
|------------------------------|----------------|--------|
| 1857                         | 04-00071-00-BR | MONROE |
| FEDERAL AID PROJECT          |                |        |
| ILLINOIS                     |                |        |
| IDOT JOB NO. BR-RS-1857(121) |                |        |
| IDOT CONTRACT NO. 97323      |                |        |

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| PROFESSIONAL REGISTRATIONS          | LICENSE NO. |
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| MISSOURI LAND SURVEYING CORP.       | NC 000346   |

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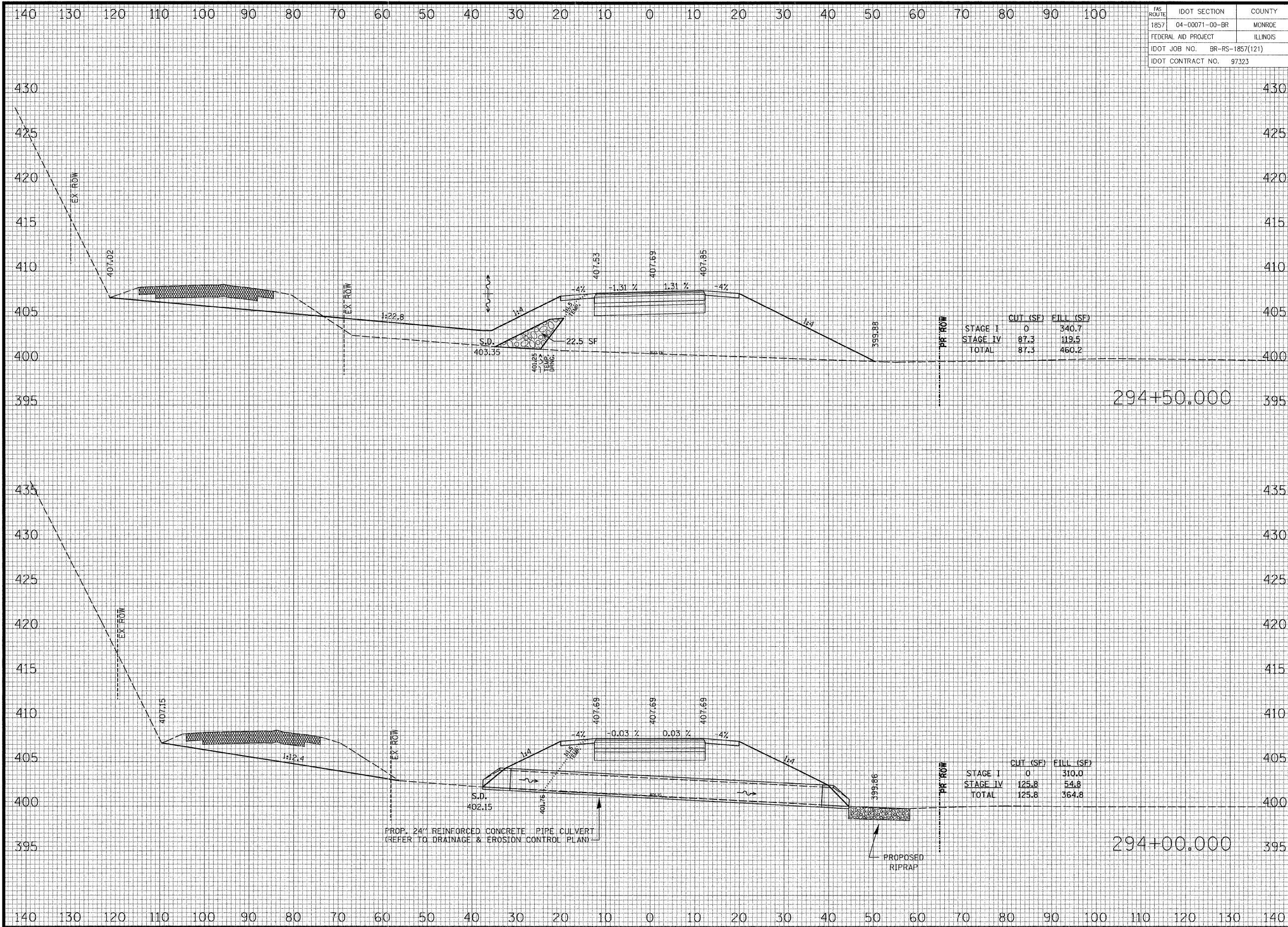
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**BLUFF ROAD**  
**BLUFF ROAD (CTY. HWY. 6)**  
**BRIDGE REPLACEMENT**  
**OVER FOUNTAIN CREEK**  
**MONROE COUNTY, IL**

| REV. | DATE | DESCRIPTION |
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| DRAWN BY: KBF/JWS          | SHEET                               |
| DESIGNED BY: BJB           | 40                                  |
| CHECKED BY: SJK            | OF 67 SHEETS                        |
| APPROVED BY: SJK           | PROJECT DESCRIPTION                 |
| PROJECT NUMBER: T16-040125 | BLUFF RD. BRIDGE OVER FOUNTAIN CRK. |
| ☐ ISSUED FOR REVIEW        | ☐ ISSUED FOR BIDDING                |
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| FAS ROUTE                    | IDOT SECTION   | COUNTY |
| 1857                         | 04-00071-00-BR | MONROE |
| FEDERAL AID PROJECT          |                |        |
| ILLINOIS                     |                |        |
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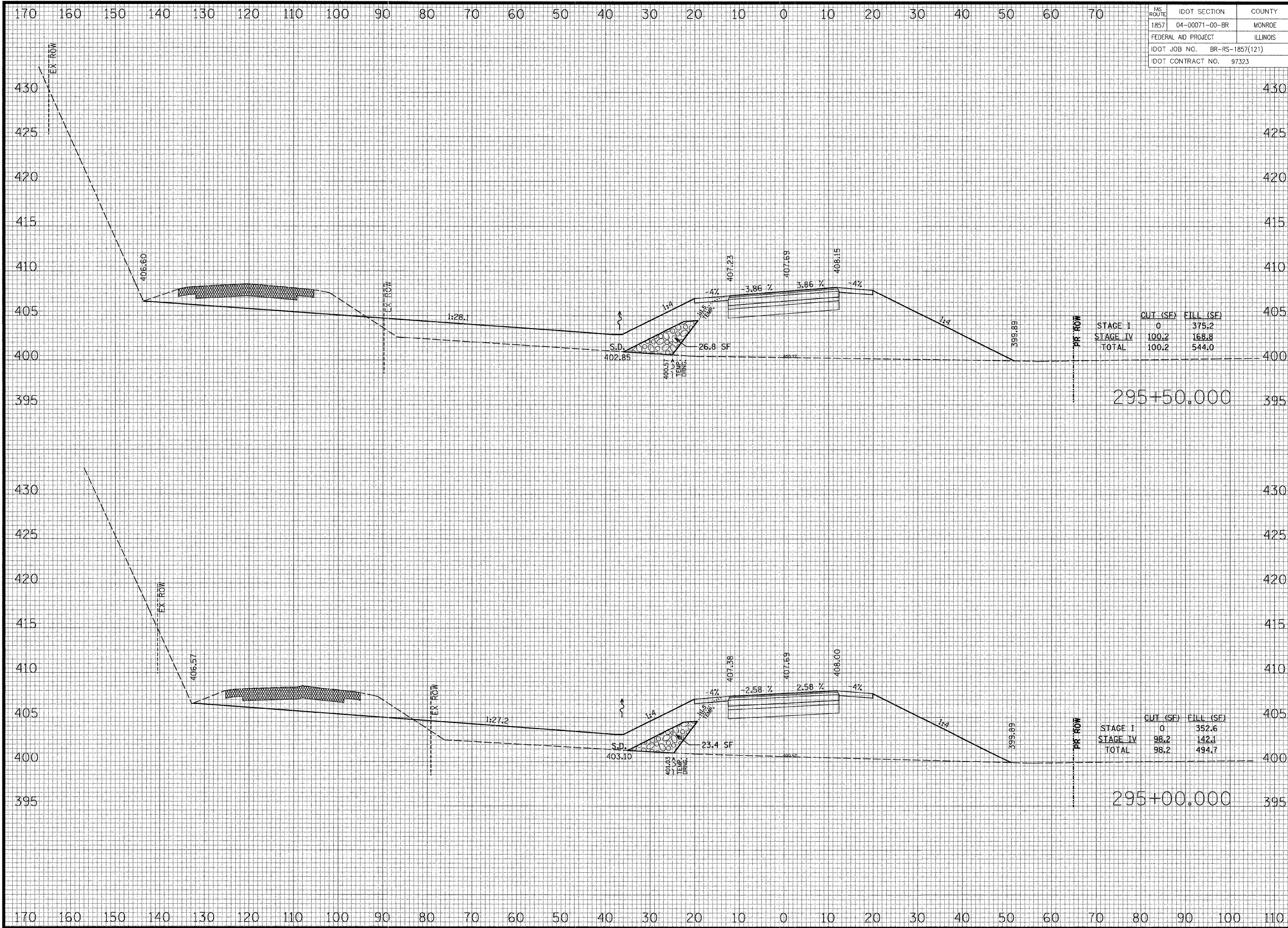
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| DRAWN BY: KBF/JWS                                      | SHEET                                       |
| DESIGNED BY: BJK                                       | 41                                          |
| CHECKED BY: SJK                                        | OF 67 SHEETS                                |
| APPROVED BY: SJK                                       | PROJECT DESCRIPTION                         |
| PROJECT NUMBER: 16-040125                              | BLUFF RD. BRIDGE OVER FOUNTAIN CRK.         |
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| FS ROUTE                     | IDOT SECTION   | COUNTY |
|------------------------------|----------------|--------|
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| FEDERAL AID PROJECT          |                |        |
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| MISSOURI LAND SURVEYING CORP.       | NC 000346   |

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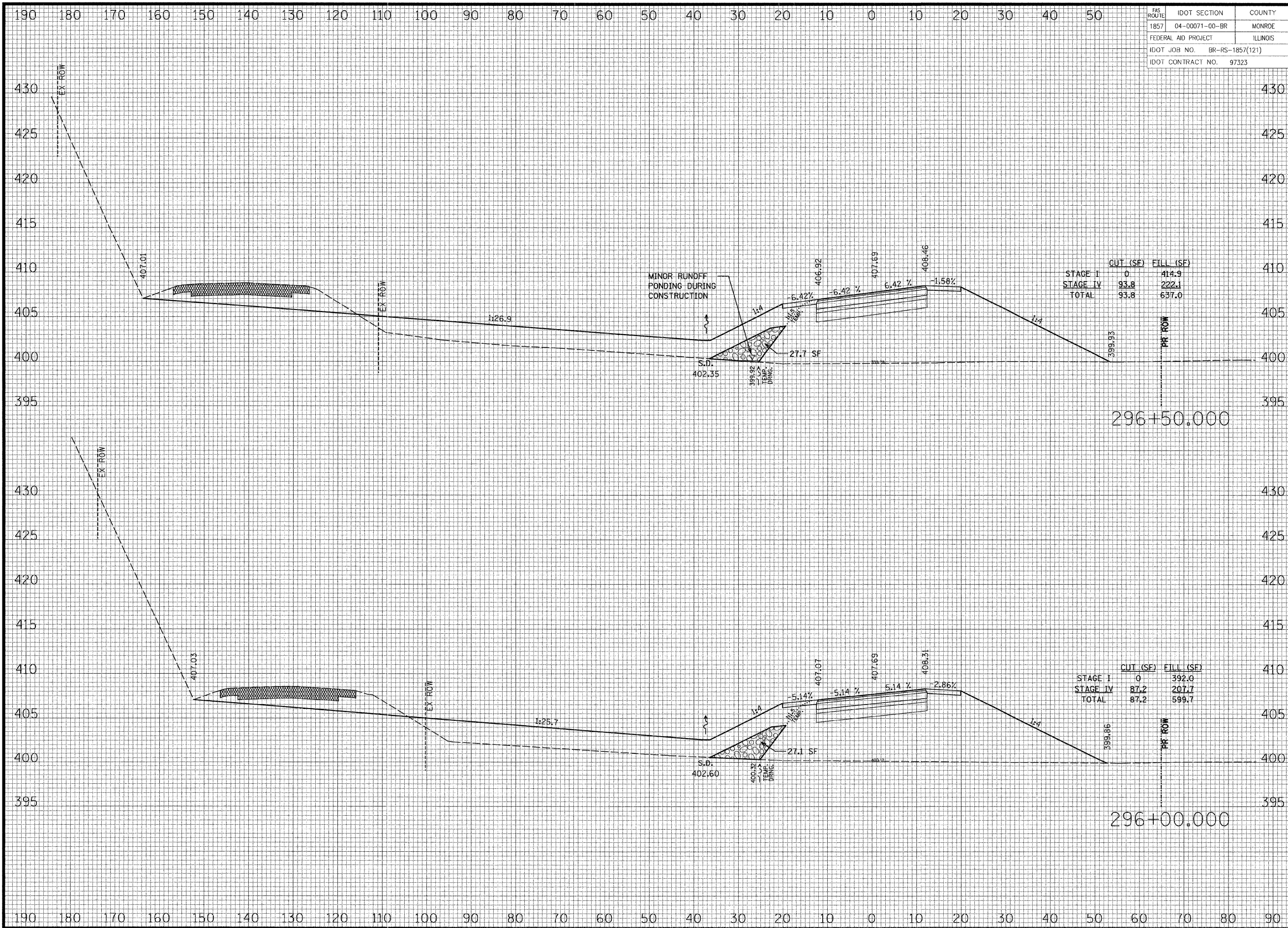
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| TITLE                        | PROJECT                                                                                    |
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| CROSS SECTIONS<br>BLUFF ROAD | BLUFF ROAD (CTY. HWY. 6)<br>BRIDGE REPLACEMENT<br>OVER FOUNTAIN CREEK<br>MONROE COUNTY, IL |

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|                                                                                                                                                                                          |                                        |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|
| DRAWN BY: KBF/JWS                                                                                                                                                                        | SHEET                                  |
| DESIGNED BY: BJG                                                                                                                                                                         | 42                                     |
| CHECKED BY: SJK                                                                                                                                                                          | OF 67 SHEETS                           |
| APPROVED BY: SJK                                                                                                                                                                         | PROJECT DESCRIPTION                    |
| PROJECT NUMBER: 16-040125                                                                                                                                                                | BLUFF RD. BRIDGE<br>OVER FOUNTAIN CRK. |
| <input type="checkbox"/> ISSUED FOR REVIEW <input type="checkbox"/> ISSUED FOR BIDDING<br><input checked="" type="checkbox"/> ISSUED FOR CONSTR. <input type="checkbox"/> RECORD DRAWING |                                        |





| FAS ROUTE                    | IDOT SECTION   | COUNTY   |
|------------------------------|----------------|----------|
| 1857                         | 04-00071-00-BR | MONROE   |
| FEDERAL AID PROJECT          |                | ILLINOIS |
| IDOT JOB NO. BR-RS-1857(121) |                |          |
| IDOT CONTRACT NO. 97323      |                |          |

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| PROFESSIONAL REGISTRATIONS          | LICENSE NO. |
|-------------------------------------|-------------|
| ILLINOIS PROFESSIONAL DESIGN FIRM   | 184-00120   |
| PROFESSIONAL ENGINEERING CORP.      | 62-035370   |
| PROFESSIONAL STRUCTURAL ENGR. CORP. | 81-005202   |
| ILLINOIS PROF. LAND SURVEYING CORP. | 048-000029  |
| MISSOURI PROFESSIONAL ENGR. CORP.   | NC 001528   |
| MISSOURI LAND SURVEYING CORP.       | NC 000346   |

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Signature: \_\_\_\_\_  
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**CROSS SECTIONS**  
**BLUFF ROAD**

**PROJECT:** BLUFF ROAD (CTY. HWY. 6)  
BRIDGE REPLACEMENT  
OVER FOUNTAIN CREEK  
MONROE COUNTY, IL

| REV. | DATE | DESCRIPTION |
|------|------|-------------|
| △    |      |             |
| △    |      |             |
| △    |      |             |

|                            |                                        |
|----------------------------|----------------------------------------|
| DRAWN BY: KBF/JWS          | SHEET                                  |
| DESIGNED BY: BJG           | <b>43</b>                              |
| CHECKED BY: SJK            | OF 67 SHEETS                           |
| APPROVED BY: SJK           | PROJECT DESCRIPTION                    |
| PROJECT NUMBER: 116-040125 | BLUFF RD. BRIDGE<br>OVER FOUNTAIN CRK. |
| ☐ ISSUED FOR REVIEW        | ☐ ISSUED FOR BIDDING                   |
| ☒ ISSUED FOR CONSTR.       | ☐ RECORD DRAWING                       |



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| PROFESSIONAL STRUCTURAL ENGR. CORP. | 81-005202   |
| ILLINOIS PROF. LAND SURVEYING CORP. | 048-000029  |
| MISSOURI PROFESSIONAL ENGR. CORP.   | NC 001528   |
| MISSOURI LAND SURVEYING CORP.       | NC 000346   |

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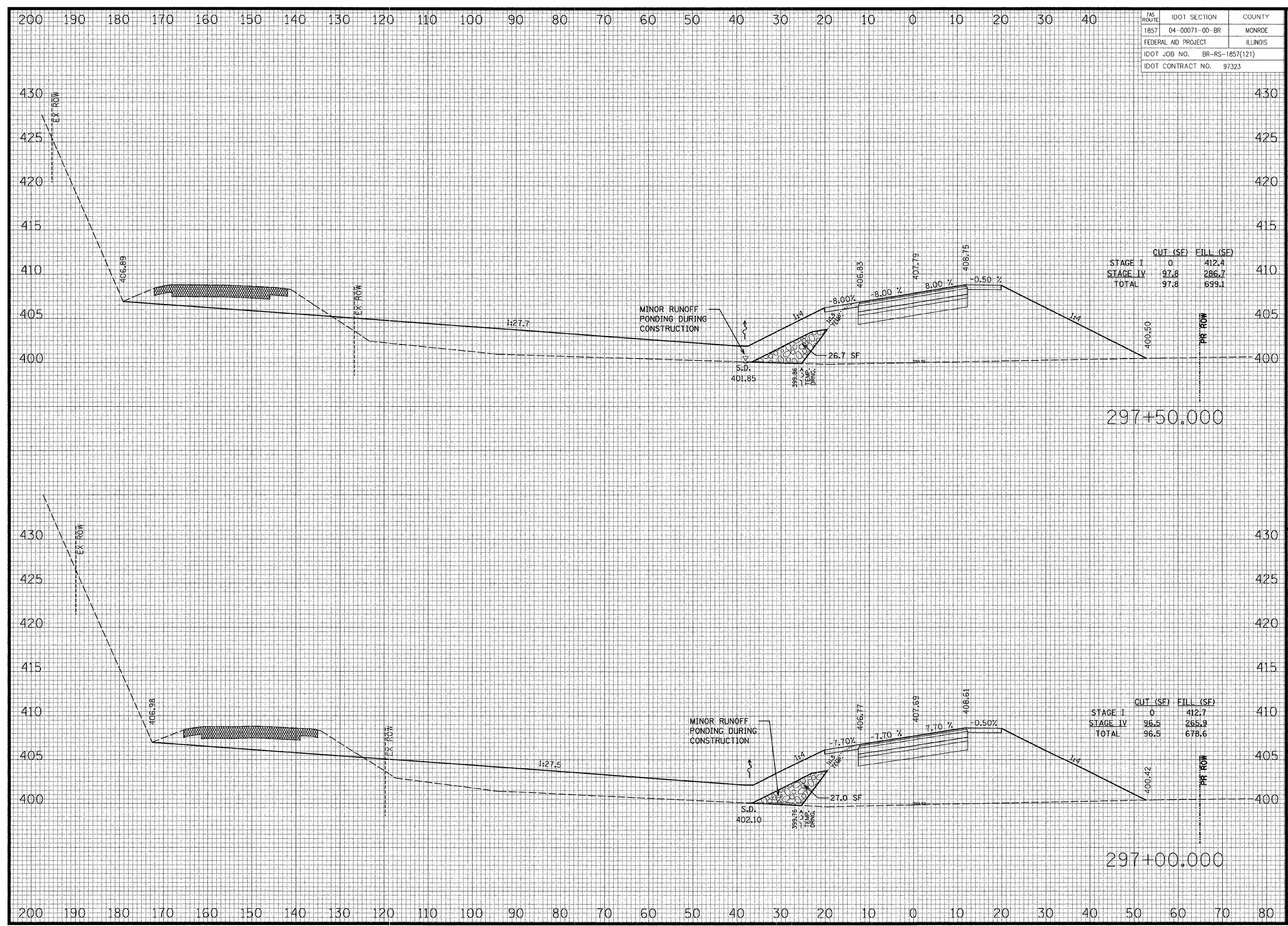
CROSS SECTIONS  
BLUFF ROAD

PROJECT:  
BLUFF ROAD (CTY. HWY. 6)  
BRIDGE REPLACEMENT  
OVER FOUNTAIN CREEK  
MONROE COUNTY, IL

TITLE

| REV. | DATE | DESCRIPTION |
|------|------|-------------|
| △    |      |             |
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| △    |      |             |

|                                                        |                                             |
|--------------------------------------------------------|---------------------------------------------|
| DRAWN BY: KBF/JWS                                      | SHEET 44                                    |
| DESIGNED BY: BJJ                                       | OF 67 SHEETS                                |
| CHECKED BY: SJK                                        | PROJECT DESCRIPTION                         |
| APPROVED BY: SJK                                       | BLUFF RD. BRIDGE OVER FOUNTAIN CRK.         |
| PROJECT NUMBER: 16-040125                              |                                             |
| <input type="checkbox"/> ISSUED FOR REVIEW             | <input type="checkbox"/> ISSUED FOR BIDDING |
| <input checked="" type="checkbox"/> ISSUED FOR CONSTR. | <input type="checkbox"/> RECORD DRAWING     |





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| PROFESSIONAL REGISTRATIONS          | LICENSE NO. |
|-------------------------------------|-------------|
| ILLINOIS PROFESSIONAL DESIGN FIRM   | 184-001220  |
| PROFESSIONAL ENGINEERING CORP.      | 62-035370   |
| PROFESSIONAL STRUCTURAL ENGR. CORP. | 81-005202   |
| ILLINOIS PROF. LAND SURVEYING CORP. | 048-000029  |
| MISSOURI PROFESSIONAL ENGR. CORP.   | NC 001528   |
| MISSOURI LAND SURVEYING CORP.       | NC 000346   |

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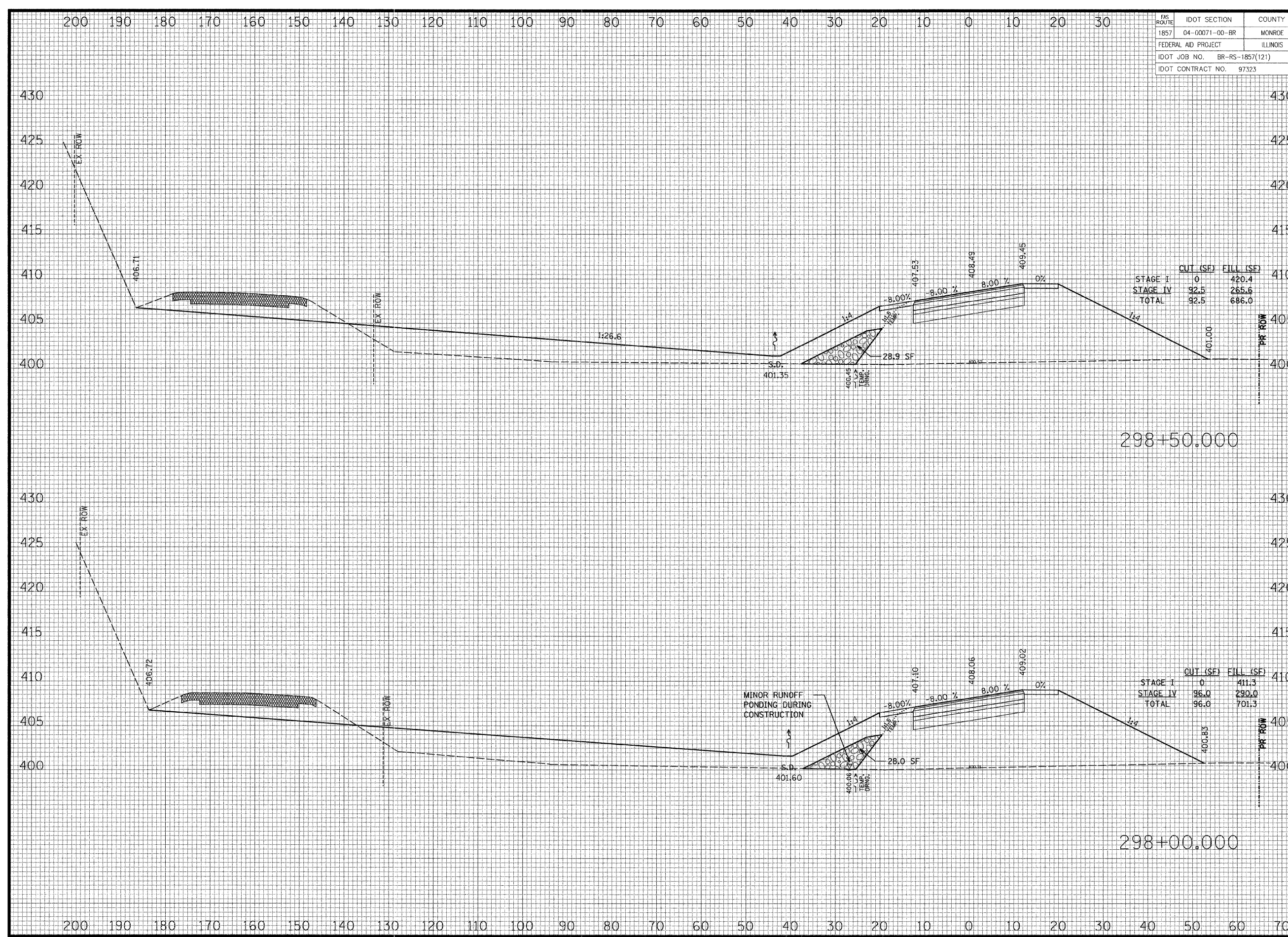
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CROSS SECTIONS  
BLUFF ROAD  
BLUFF ROAD (CTY. HWY. 6)  
BRIDGE REPLACEMENT  
OVER FOUNTAIN CREEK  
MONROE COUNTY, IL

| REV. | DATE | DESCRIPTION |
|------|------|-------------|
| △    |      |             |
| △    |      |             |
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DRAWN BY: KBF/JWS  
DESIGNED BY: BJC  
CHECKED BY: SJK  
APPROVED BY: SJK  
PROJECT NUMBER: 116-040125  
PROJECT DESCRIPTION: BLUFF RD. BRIDGE OVER FOUNTAIN CRK.  
SHEET 45 OF 67 SHEETS

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✕ ISSUED FOR CONSTR. □ RECORD DRAWING





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| PROFESSIONAL REGISTRATIONS          | LICENSE NO. |
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| PROFESSIONAL ENGINEERING CORP.      | 62-035370   |
| PROFESSIONAL STRUCTURAL ENGR. CORP. | 81-005202   |
| ILLINOIS PROF. LAND SURVEYING CORP. | 048-000029  |
| MISSOURI PROFESSIONAL ENGR. CORP.   | NC 001528   |
| MISSOURI LAND SURVEYING CORP.       | NC 000346   |

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**CROSS SECTIONS  
BLUFF ROAD**

**PROJECT:**  
BLUFF ROAD (CTY. HWY. 6)  
BRIDGE REPLACEMENT  
OVER FOUNTAIN CREEK  
MONROE COUNTY, IL

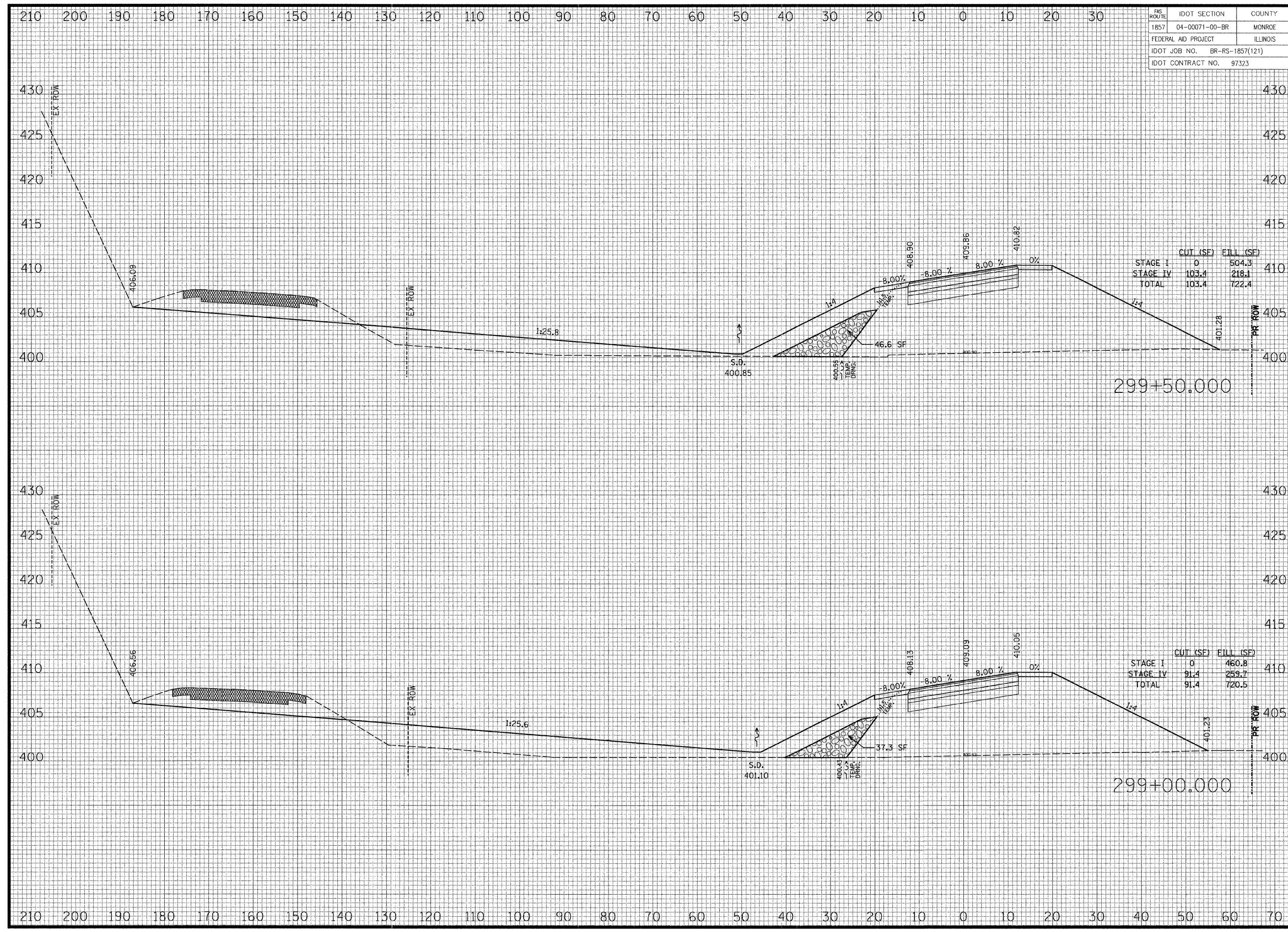
| REV. | DATE | DESCRIPTION |
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DRAWN BY: KBF/JWS  
DESIGNED BY: BJG  
CHECKED BY: SJK  
APPROVED BY: SJK

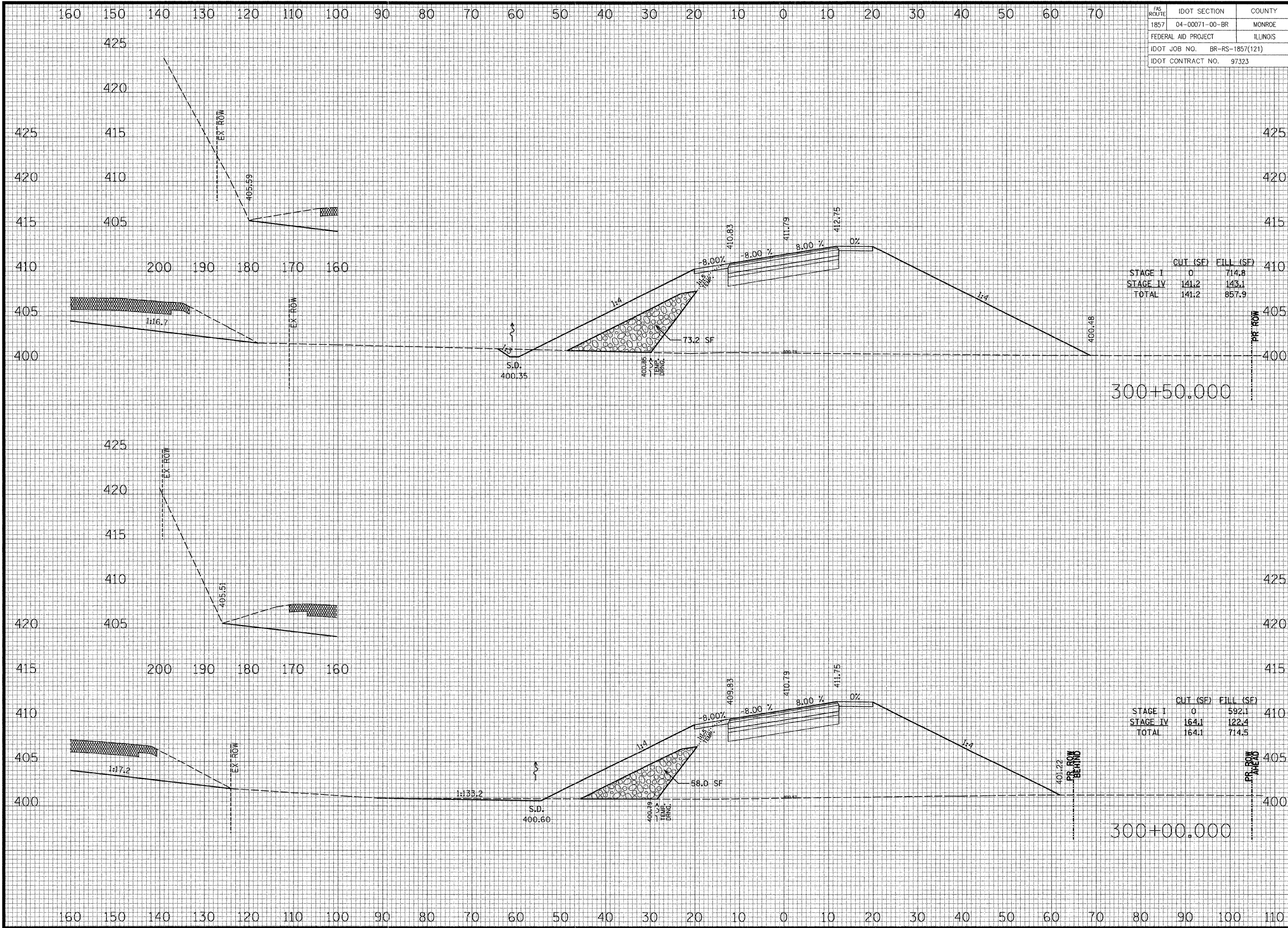
SHEET  
**46**  
OF 67 SHEETS

PROJECT DESCRIPTION  
BLUFF RD. BRIDGE  
OVER FOUNTAIN CRK.

□ ISSUED FOR REVIEW □ ISSUED FOR BIDDING  
✑ ISSUED FOR CONSTR. □ RECORD DRAWING







| FS ROUTE                     | IDOT SECTION   | COUNTY   |
|------------------------------|----------------|----------|
| 1857                         | 04-00071-00-BR | MONROE   |
| FEDERAL AID PROJECT          |                | ILLINOIS |
| IDOT JOB NO. BR-RS-1857(121) |                |          |
| IDOT CONTRACT NO. 97323      |                |          |

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| PROFESSIONAL REGISTRATIONS          | LICENSE NO. |
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| ILLINOIS PROFESSIONAL DESIGN FIRM   | 184-001220  |
| PROFESSIONAL ENGINEERING CORP.      | 62-035370   |
| PROFESSIONAL STRUCTURAL ENGR. CORP. | 81-005202   |
| ILLINOIS PROF. LAND SURVEYING CORP. | 048-000029  |
| MISSOURI PROFESSIONAL ENGR. CORP.   | NC 001528   |
| MISSOURI LAND SURVEYING CORP.       | NC 000346   |

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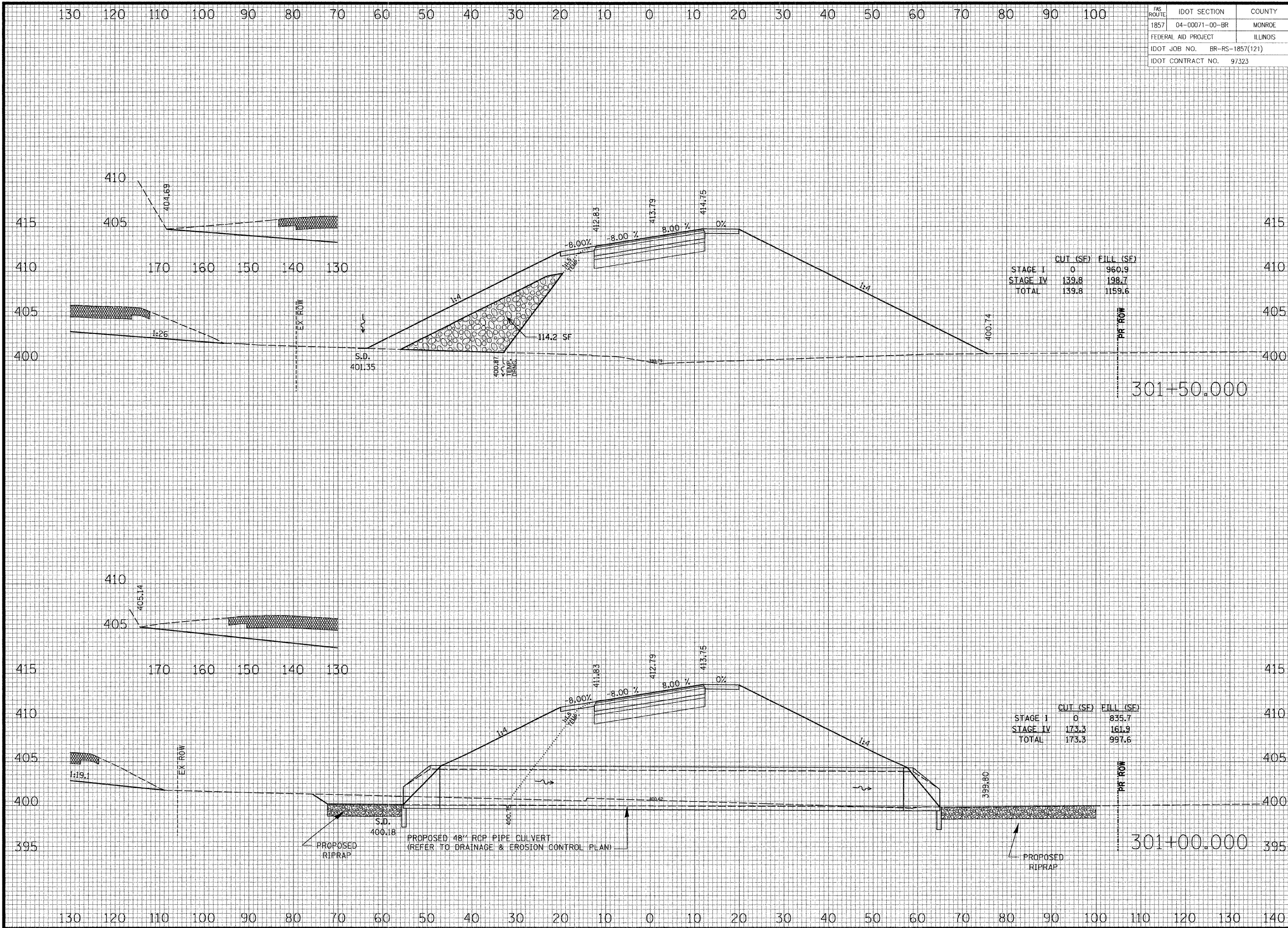
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CROSS SECTIONS  
BLUFF ROAD  
BLUFF ROAD (CTY. HWY. 6)  
BRIDGE REPLACEMENT  
OVER FOUNTAIN CREEK  
MONROE COUNTY, IL

| REV. | DATE | DESCRIPTION |
|------|------|-------------|
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| △    |      |             |
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|                                                        |                                             |
|--------------------------------------------------------|---------------------------------------------|
| DRAWN BY: KBF/JWS                                      | SHEET 47                                    |
| DESIGNED BY: BJC                                       | OF 62 SHEETS                                |
| CHECKED BY: SJK                                        |                                             |
| APPROVED BY: SJK                                       | PROJECT DESCRIPTION                         |
| PROJECT NUMBER: 16-040125                              | BLUFF RD. BRIDGE<br>OVER FOUNTAIN CRK.      |
| <input type="checkbox"/> ISSUED FOR REVIEW             | <input type="checkbox"/> ISSUED FOR BIDDING |
| <input checked="" type="checkbox"/> ISSUED FOR CONSTR. | <input type="checkbox"/> RECORD DRAWING     |





|                              |                |        |
|------------------------------|----------------|--------|
| FAS ROUTE                    | IDOT SECTION   | COUNTY |
| 1857                         | 04-00071-00-BR | MONROE |
| FEDERAL AID PROJECT          |                |        |
| ILLINOIS                     |                |        |
| IDOT JOB NO. BR-RS-1857(121) |                |        |
| IDOT CONTRACT NO. 97323      |                |        |

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| ILLINOIS PROFESSIONAL DESIGN FIRM   | 184-09120   |
| PROFESSIONAL ENGINEERING CORP.      | 62-03570    |
| PROFESSIONAL STRUCTURAL ENGR. CORP. | 01-005202   |
| ILLINOIS PROF. LAND SURVEYING CORP. | 048-000029  |
| MISSOURI PROFESSIONAL ENGR. CORP.   | NC 001528   |
| MISSOURI LAND SURVEYING CORP.       | NC 000346   |

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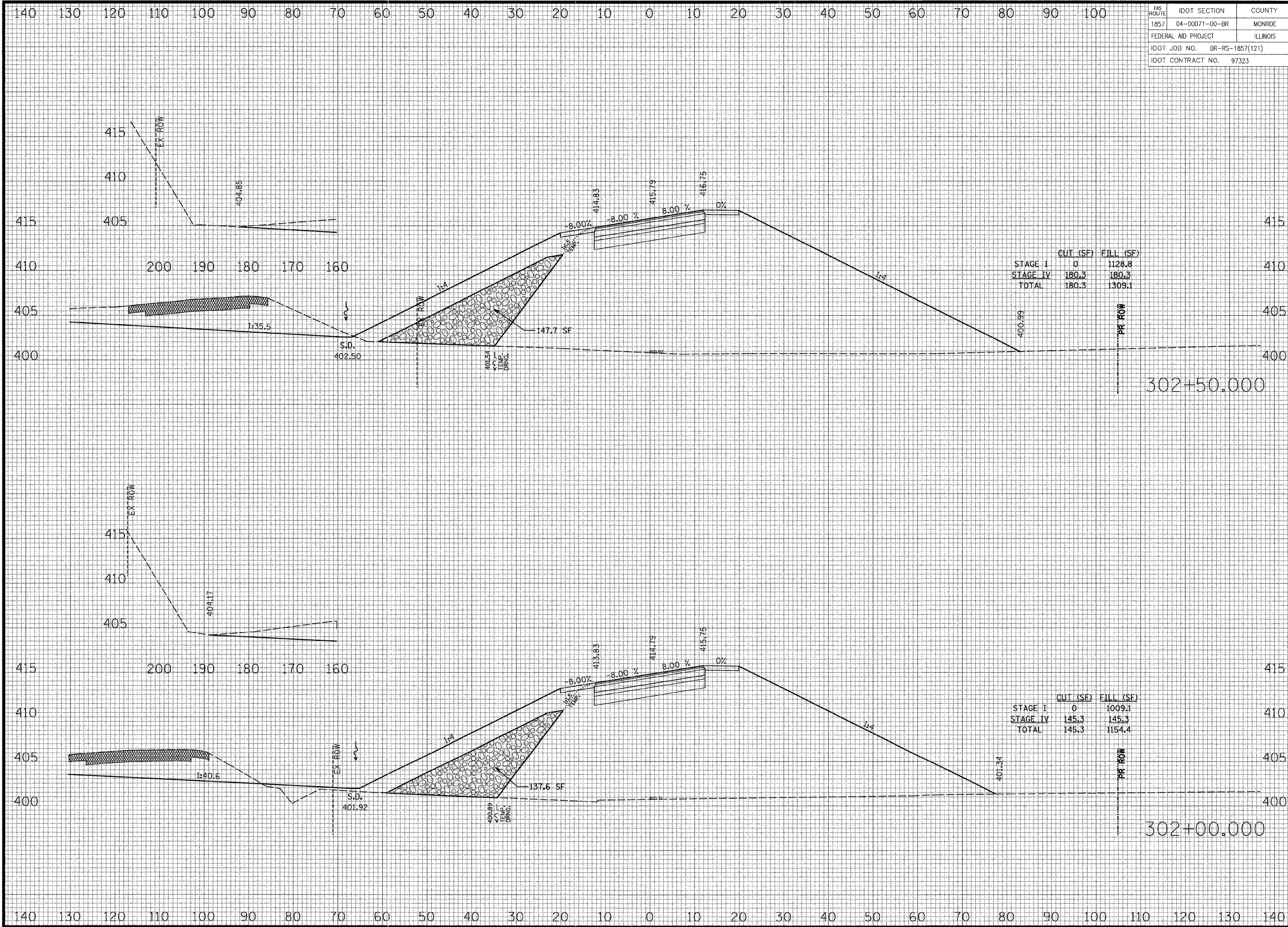
CROSS SECTIONS  
BLUFF ROAD  
PROJECT: BLUFF ROAD (CTY. HWY. 6)  
BRIDGE REPLACEMENT  
OVER FOUNTAIN CREEK  
MONROE COUNTY, IL

| REV. | DATE | DESCRIPTION |
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|                            |                     |
|----------------------------|---------------------|
| DRAWN BY: KBF/JWS          | SHEET 48            |
| DESIGNED BY: BJC           | OF 67 SHEETS        |
| CHECKED BY: SJK            | PROJECT DESCRIPTION |
| APPROVED BY: SJK           | BLUFF RD. BRIDGE    |
| PROJECT NUMBER: 116-040125 | OVER FOUNTAIN CRK.  |

□ ISSUED FOR REVIEW □ ISSUED FOR BIDDING  
✕ ISSUED FOR CONSTR. □ RECORD DRAWING





| FAS ROUTE                    | IDOT SECTION   | COUNTY |
|------------------------------|----------------|--------|
| 1857                         | 04-00071-00-BR | MONROE |
| FEDERAL AID PROJECT          |                |        |
| ILLINOIS                     |                |        |
| IDOT JOB NO. BR-RS-1857(121) |                |        |
| IDOT CONTRACT NO. 97323      |                |        |

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|-------------------------------------|-------------|
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| PROFESSIONAL STRUCTURAL ENGR. CORP. | 81-005202   |
| ILLINOIS PROF. LAND SURVEYING CORP. | 048-000029  |
| MISSOURI PROFESSIONAL ENGR. CORP.   | NC 001528   |
| MISSOURI LAND SURVEYING CORP.       | NC 000346   |

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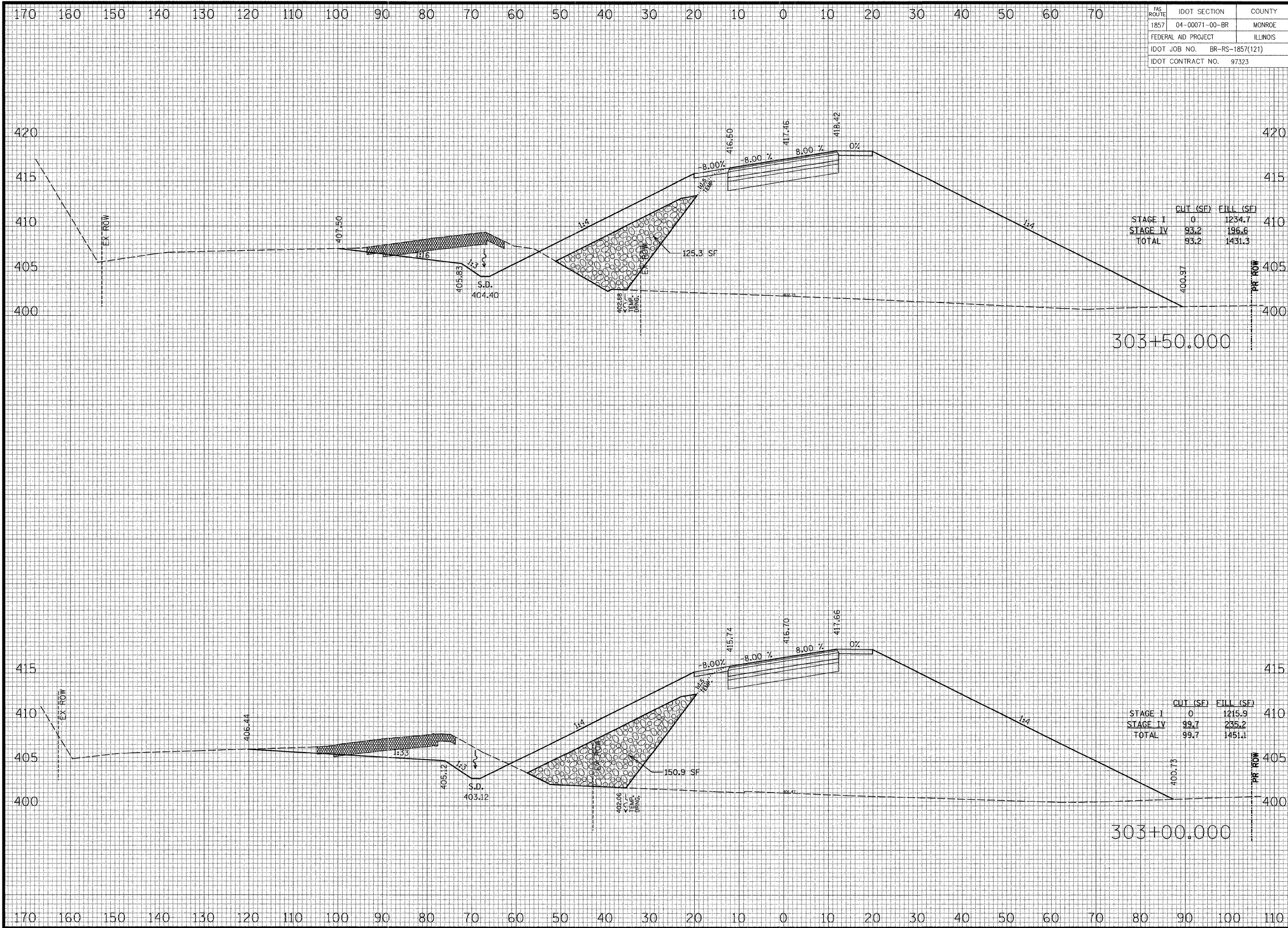
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Signature Date:  
Expiration Date:  
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| TITLE                        | PROJECT                                                                                    |
|------------------------------|--------------------------------------------------------------------------------------------|
| CROSS SECTIONS<br>BLUFF ROAD | BLUFF ROAD (CTY. HWY. 6)<br>BRIDGE REPLACEMENT<br>OVER FOUNTAIN CREEK<br>MONROE COUNTY, IL |

| REV. | DATE | DESCRIPTION |
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| △    |      |             |
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| △    |      |             |

| DRAWN BY:                                | DESIGNED BY: | CHECKED BY: | APPROVED BY: | PROJECT DESCRIPTION                    |
|------------------------------------------|--------------|-------------|--------------|----------------------------------------|
| KBF/JWS                                  | BJC          | SJK         | SJK          | BLUFF RD. BRIDGE<br>OVER FOUNTAIN CRK. |
| PROJECT NUMBER: 16-040125                |              |             |              |                                        |
| SHEET 49 OF 67 SHEETS                    |              |             |              |                                        |
| □ ISSUED FOR REVIEW □ ISSUED FOR BIDDING |              |             |              |                                        |
| ✑ ISSUED FOR CONSTR. □ RECORD DRAWING    |              |             |              |                                        |





| ROUTE                        | IDOT SECTION   | COUNTY   |
|------------------------------|----------------|----------|
| 1857                         | 04-00071-00-BR | MONROE   |
| FEDERAL AID PROJECT          |                | ILLINOIS |
| IDOT JOB NO. BR-RS-1857(121) |                |          |
| IDOT CONTRACT NO. 97323      |                |          |

|          | CUT (SF) | FILL (SF) |
|----------|----------|-----------|
| STAGE I  | 0        | 1234.7    |
| STAGE IV | 93.2     | 196.6     |
| TOTAL    | 93.2     | 1431.3    |

|          | CUT (SF) | FILL (SF) |
|----------|----------|-----------|
| STAGE I  | 0        | 1215.9    |
| STAGE IV | 99.7     | 235.2     |
| TOTAL    | 99.7     | 1451.1    |

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| PROFESSIONAL REGISTRATIONS          | LICENSE NO. |
|-------------------------------------|-------------|
| ILLINOIS PROFESSIONAL DESIGN FIRM   | 184-001220  |
| PROFESSIONAL ENGINEERING CORP.      | 62-035370   |
| PROFESSIONAL STRUCTURAL ENGR. CORP. | 81-095203   |
| ILLINOIS PROF. LAND SURVEYING CORP. | 048-000029  |
| MISSOURI PROFESSIONAL ENGR. CORP.   | NC 001528   |
| MISSOURI LAND SURVEYING CORP.       | NC 000346   |

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CROSS SECTIONS  
BLUFF ROAD

PROJECT:  
BLUFF ROAD (CTY. HWY. 6)  
BRIDGE REPLACEMENT  
OVER FOUNTAIN CREEK  
MONROE COUNTY, IL

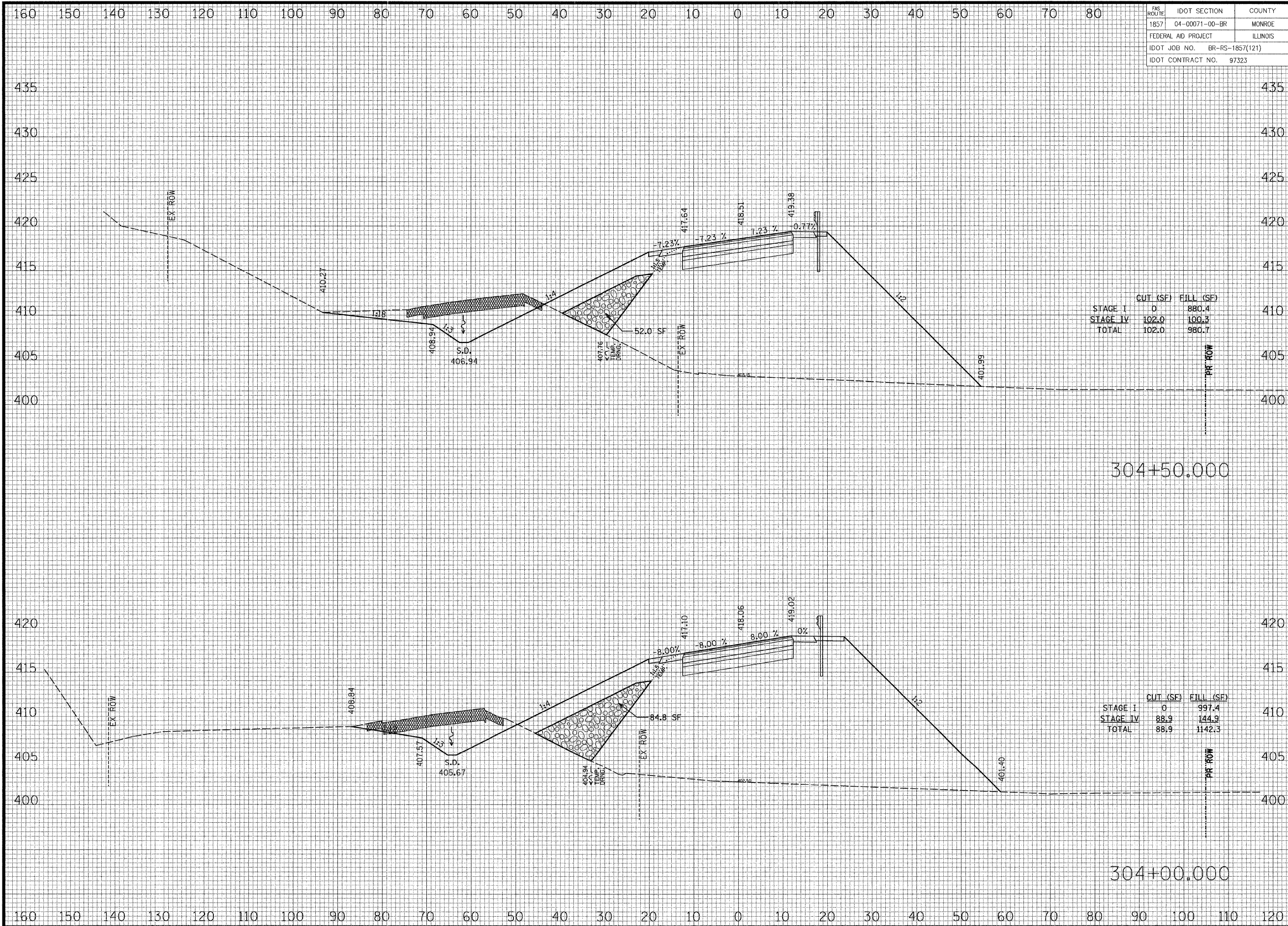
| TITLE                        | PROJECT                                                                                    |
|------------------------------|--------------------------------------------------------------------------------------------|
| CROSS SECTIONS<br>BLUFF ROAD | BLUFF ROAD (CTY. HWY. 6)<br>BRIDGE REPLACEMENT<br>OVER FOUNTAIN CREEK<br>MONROE COUNTY, IL |

| REV. | DATE | DESCRIPTION |
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|                           |                                        |
|---------------------------|----------------------------------------|
| DRAWN BY: KBF/JWS         | SHEET 50                               |
| DESIGNED BY: BJG          | OF 67 SHEETS                           |
| CHECKED BY: SJK           |                                        |
| APPROVED BY: SJK          | PROJECT DESCRIPTION                    |
| PROJECT NUMBER: 16-040125 | BLUFF RD. BRIDGE<br>OVER FOUNTAIN CRK. |

|                                                        |                                             |
|--------------------------------------------------------|---------------------------------------------|
| <input type="checkbox"/> ISSUED FOR REVIEW             | <input type="checkbox"/> ISSUED FOR BIDDING |
| <input checked="" type="checkbox"/> ISSUED FOR CONSTR. | <input type="checkbox"/> RECORD DRAWING     |





| FAS ROUTE                    | IDOT SECTION   | COUNTY   |
|------------------------------|----------------|----------|
| 1857                         | 04-00071-00-BR | MONROE   |
| FEDERAL AID PROJECT          |                | ILLINOIS |
| IDOT JOB NO. BR-RS-1857(121) |                |          |
| IDOT CONTRACT NO. 97323      |                |          |

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| PROFESSIONAL REGISTRATIONS          | LICENSE NO. |
|-------------------------------------|-------------|
| ILLINOIS PROFESSIONAL DESIGN FIRM   | 184-001220  |
| PROFESSIONAL ENGINEERING CORP.      | 62-035370   |
| PROFESSIONAL STRUCTURAL ENGR. CORP. | 81-005020   |
| ILLINOIS PROF. LAND SURVEYING CORP. | 018-000029  |
| MISSOURI PROFESSIONAL ENGR. CORP.   | NC 001528   |
| MISSOURI LAND SURVEYING CORP.       | NC 000346   |

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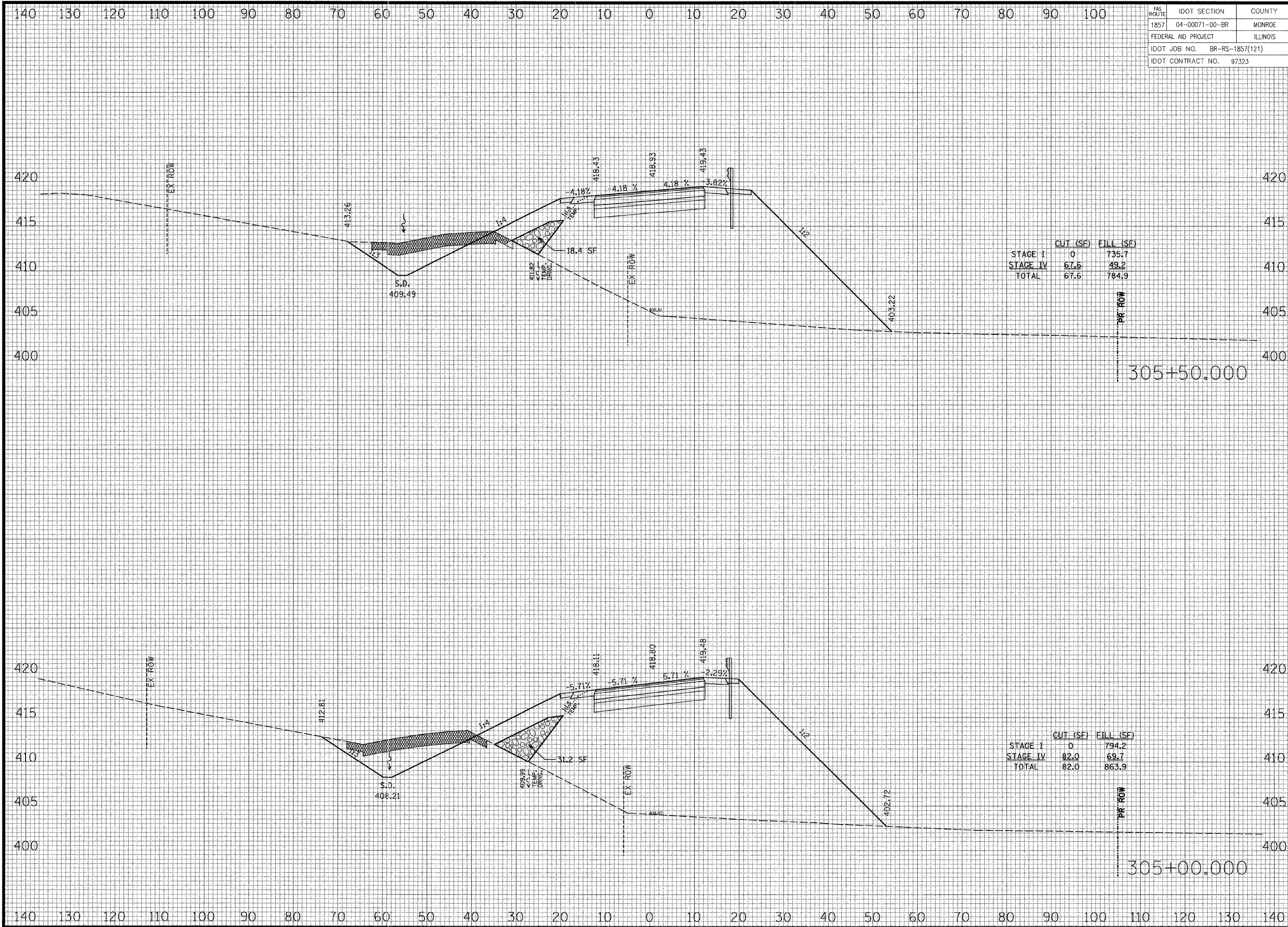
CROSS SECTIONS  
BLUFF ROAD

PROJECT:  
BLUFF ROAD (CTY. HWY. 6)  
BRIDGE REPLACEMENT  
OVER FOUNTAIN CREEK  
MONROE COUNTY, IL

| REV. | DATE | DESCRIPTION |
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|---------------------------|----------------------|
| DRAWN BY: KBF/JWS         | SHEET 51             |
| DESIGNED BY: BJC          | OF 67 SHEETS         |
| CHECKED BY: SJK           | PROJECT DESCRIPTION  |
| APPROVED BY: SJK          | BLUFF RD. BRIDGE     |
| PROJECT NUMBER: 16-040125 | OVER FOUNTAIN CRK.   |
| ☐ ISSUED FOR REVIEW       | ☐ ISSUED FOR BIDDING |
| ☒ ISSUED FOR CONSTR.      | ☐ RECORD DRAWING     |





|                              |                |          |
|------------------------------|----------------|----------|
| FS ROUTE                     | IDOT SECTION   | COUNTY   |
| 1857                         | 04-00071-00-BR | MONROE   |
| FEDERAL AID PROJECT          |                | ILLINOIS |
| IDOT JOB NO. BR-RS-1857(121) |                |          |
| IDOT CONTRACT NO. 97323      |                |          |

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|                                              |            |
|----------------------------------------------|------------|
| ILLINOIS PROFESSIONAL DESIGN FIRM            | 184-001220 |
| ILLINOIS PROFESSIONAL ENGINEERING CORP.      | 62-035370  |
| ILLINOIS PROFESSIONAL STRUCTURAL ENGR. CORP. | 61-005202  |
| ILLINOIS PROF. LAND SURVEYING CORP.          | 048-000029 |
| MISSOURI PROFESSIONAL ENGR. CORP.            | NC 001528  |
| MISSOURI LAND SURVEYING CORP.                | NC 000346  |

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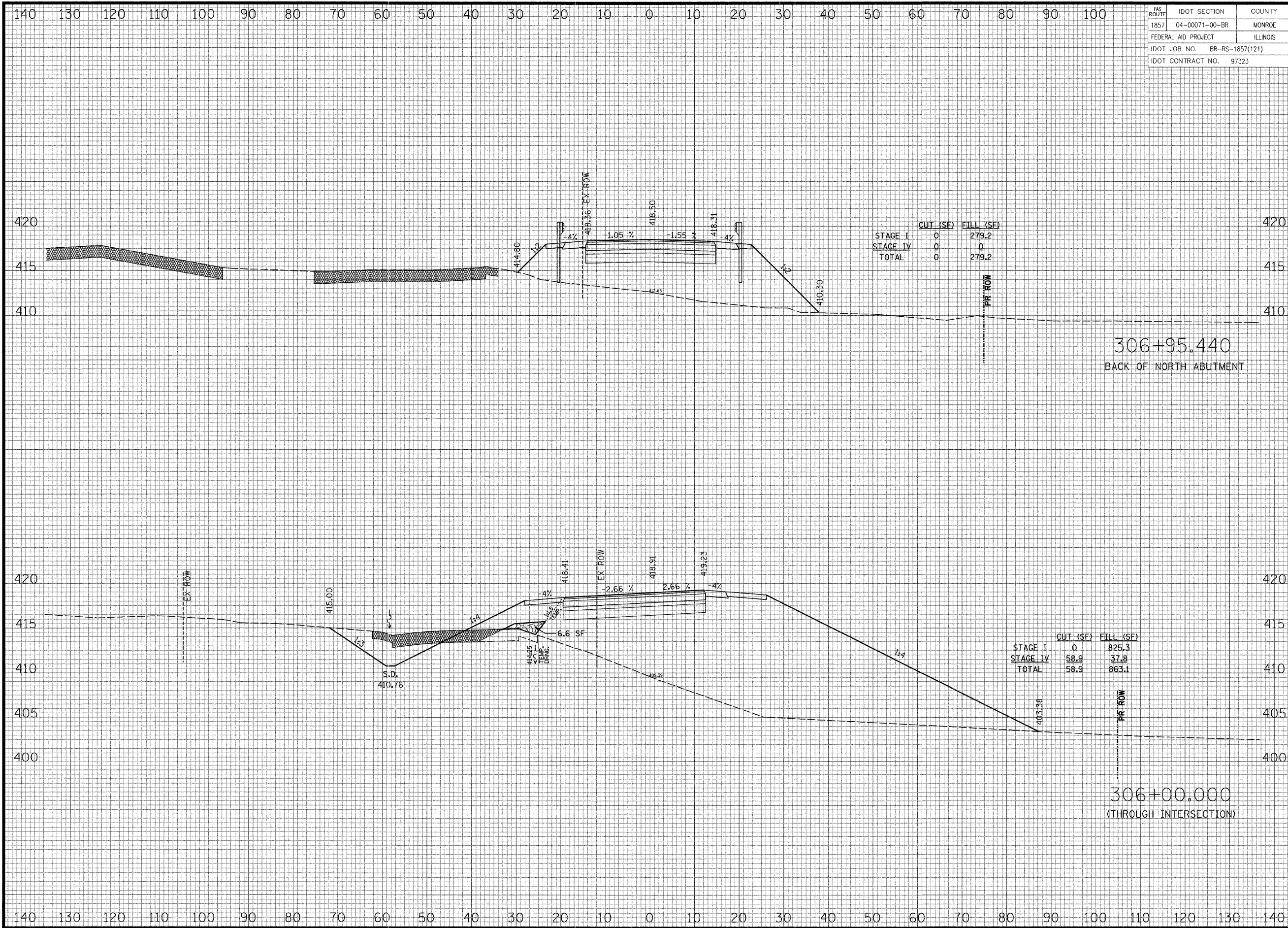
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CROSS SECTIONS  
BLUFF ROAD  
BLUFF ROAD (CTY. HWY. 6)  
BRIDGE REPLACEMENT  
OVER FOUNTAIN CREEK  
MONROE COUNTY, IL

| REV. | DATE | DESCRIPTION |
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|---------------------------|----------------------|
| DRAWN BY: KBF/JWS         | SHEET 52             |
| DESIGNED BY: BJC          | OF 67 SHEETS         |
| CHECKED BY: SJK           | PROJECT DESCRIPTION  |
| APPROVED BY: SJK          | BLUFF RD. BRIDGE     |
| PROJECT NUMBER: 16-040125 | OVER FOUNTAIN CRK.   |
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| ROUTE                        | IDOT SECTION   | COUNTY   |
|------------------------------|----------------|----------|
| 1857                         | 04-00071-00-BR | MONROE   |
| FEDERAL AID PROJECT          |                | ILLINOIS |
| IDOT JOB NO. BR-RS-1857(121) |                |          |
| IDOT CONTRACT NO. 97323      |                |          |

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| PROFESSIONAL REGISTRATIONS          | LICENSE NO. |
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| ILLINOIS PROFESSIONAL DESIGN FIRM   | 184-001220  |
| PROFESSIONAL ENGINEERING CORP.      | 62-035370   |
| PROFESSIONAL STRUCTURAL ENGR. CORP. | 81-005202   |
| ILLINOIS PROF. LAND SURVEYING CORP. | 048-000029  |
| MISSOURI PROFESSIONAL ENGR. CORP.   | NC 001528   |
| MISSOURI LAND SURVEYING CORP.       | NC 000346   |

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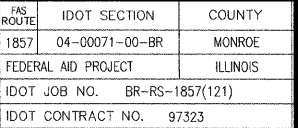
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**CROSS SECTIONS**  
**BLUFF ROAD**  
**BLUFF ROAD (CTY. HWY. 6)**  
**BRIDGE REPLACEMENT**  
**OVER FOUNTAIN CREEK**  
**MONROE COUNTY, IL**

| REV. | DATE | DESCRIPTION |
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| DRAWN BY: KBF/JWS                                      | SHEET 53                                    |
| DESIGNED BY: BJG                                       | OF 67 SHEETS                                |
| CHECKED BY: SJK                                        |                                             |
| APPROVED BY: SJK                                       | PROJECT DESCRIPTION                         |
| PROJECT NUMBER: 16-040125                              | BLUFF RD. BRIDGE OVER FOUNTAIN CRK.         |
| <input type="checkbox"/> ISSUED FOR REVIEW             | <input type="checkbox"/> ISSUED FOR BIDDING |
| <input checked="" type="checkbox"/> ISSUED FOR CONSTR. | <input type="checkbox"/> RECORD DRAWING     |





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| PROFESSIONAL REGISTRATIONS          | LICENSE NO. |
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| ILLINOIS PROFESSIONAL DESIGN FIRM   | 184-00122   |
| PROFESSIONAL ENGINEERING CORP.      | 62-035378   |
| PROFESSIONAL STRUCTURAL ENGR. CORP. | 81-005202   |
| ILLINOIS PROF. LAND SURVEYING CORP. | 048-00002   |
| MISSOURI PROFESSIONAL ENGR. CORP.   | NC 001528   |
| MISSOURI LAND SURVEYING CORP.       | NC 000346   |

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**CROSS SECTIONS  
BLUFF ROAD**

BLUFF ROAD (CTY. HWY. 6)  
BRIDGE REPLACEMENT  
OVER FOUNTAIN CREEK  
MONROE COUNTY, IL

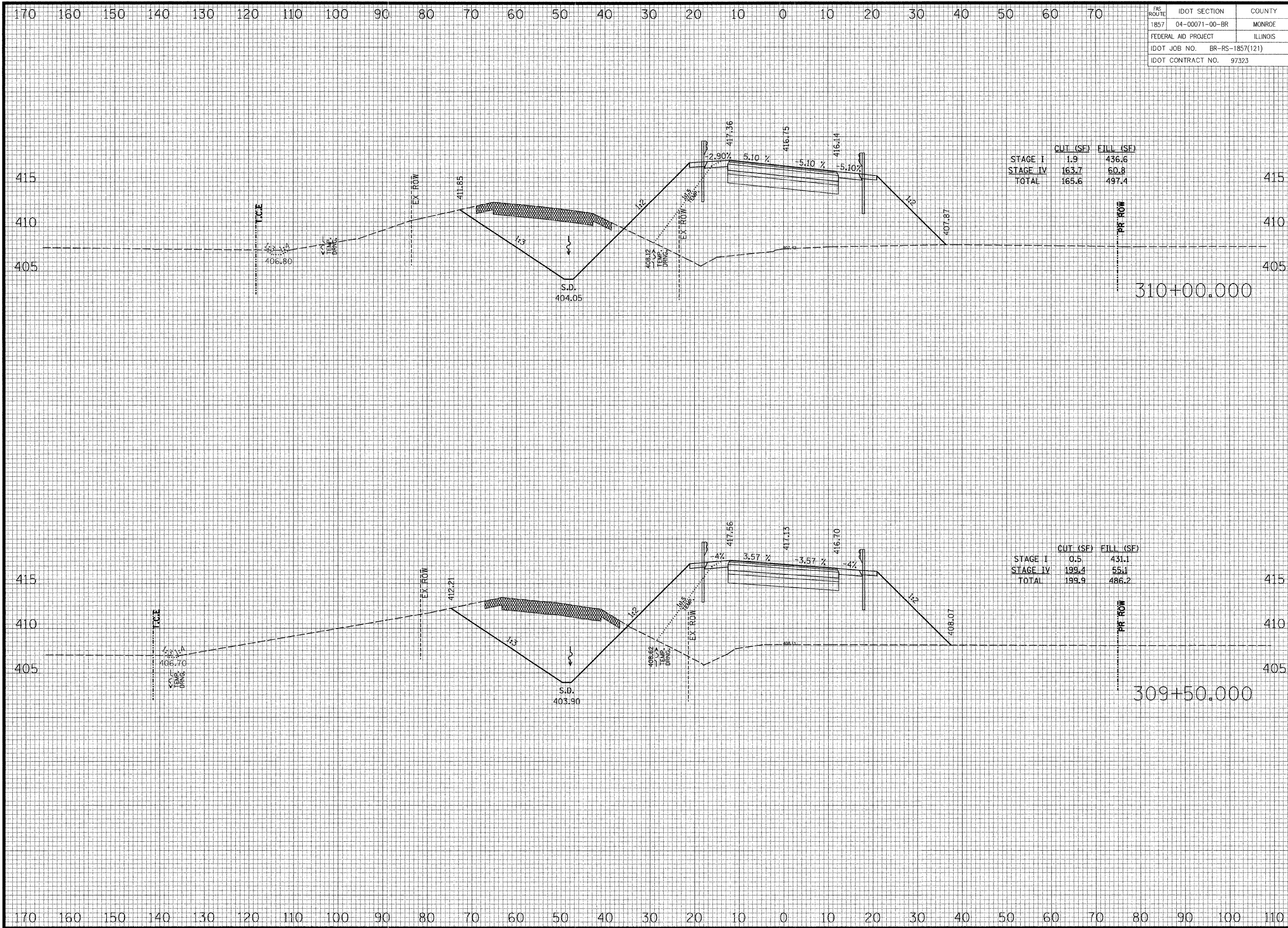
| REV. | DATE | DESCRIPTION |
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|------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|
| DRAWN BY: KBF/JWS                                                                                    | SHEET<br><div style="font-size: 2em; font-weight: bold;">54</div> OF <u>67</u> SHEETS  |
| DESIGNED BY: B/JG                                                                                    |                                                                                        |
| CHECKED BY: S/JK                                                                                     |                                                                                        |
| APPROVED BY: S/JK                                                                                    |                                                                                        |
| PROJECT NUMBER: T16-040125                                                                           | PROJECT DESCRIPTION:<br>BLUFF RD. BRIDGE<br>OVER FOUNTAIN C.                           |
| <input type="checkbox"/> ISSUED FOR REVIEW<br><input checked="" type="checkbox"/> ISSUED FOR CONSTR. | <input type="checkbox"/> ISSUED FOR BIDDING<br><input type="checkbox"/> RECORD DRAWING |









|                              |                |          |
|------------------------------|----------------|----------|
| F&S ROUTE                    | IDOT SECTION   | COUNTY   |
| 1857                         | 04-00071-00-BR | MONROE   |
| FEDERAL AID PROJECT          |                | ILLINOIS |
| IDOT JOB NO. BR-RS-1857(121) |                |          |
| IDOT CONTRACT NO. 97323      |                |          |

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| ILLINOIS PROFESSIONAL DESIGN FIRM   | 184-00120   |
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| PROFESSIONAL STRUCTURAL ENGR. CORP. | 81-005202   |
| ILLINOIS PROF. LAND SURVEYING CORP. | 048-000029  |
| MISSOURI PROFESSIONAL ENGR. CORP.   | NC 001528   |
| MISSOURI LAND SURVEYING CORP.       | NC 000346   |

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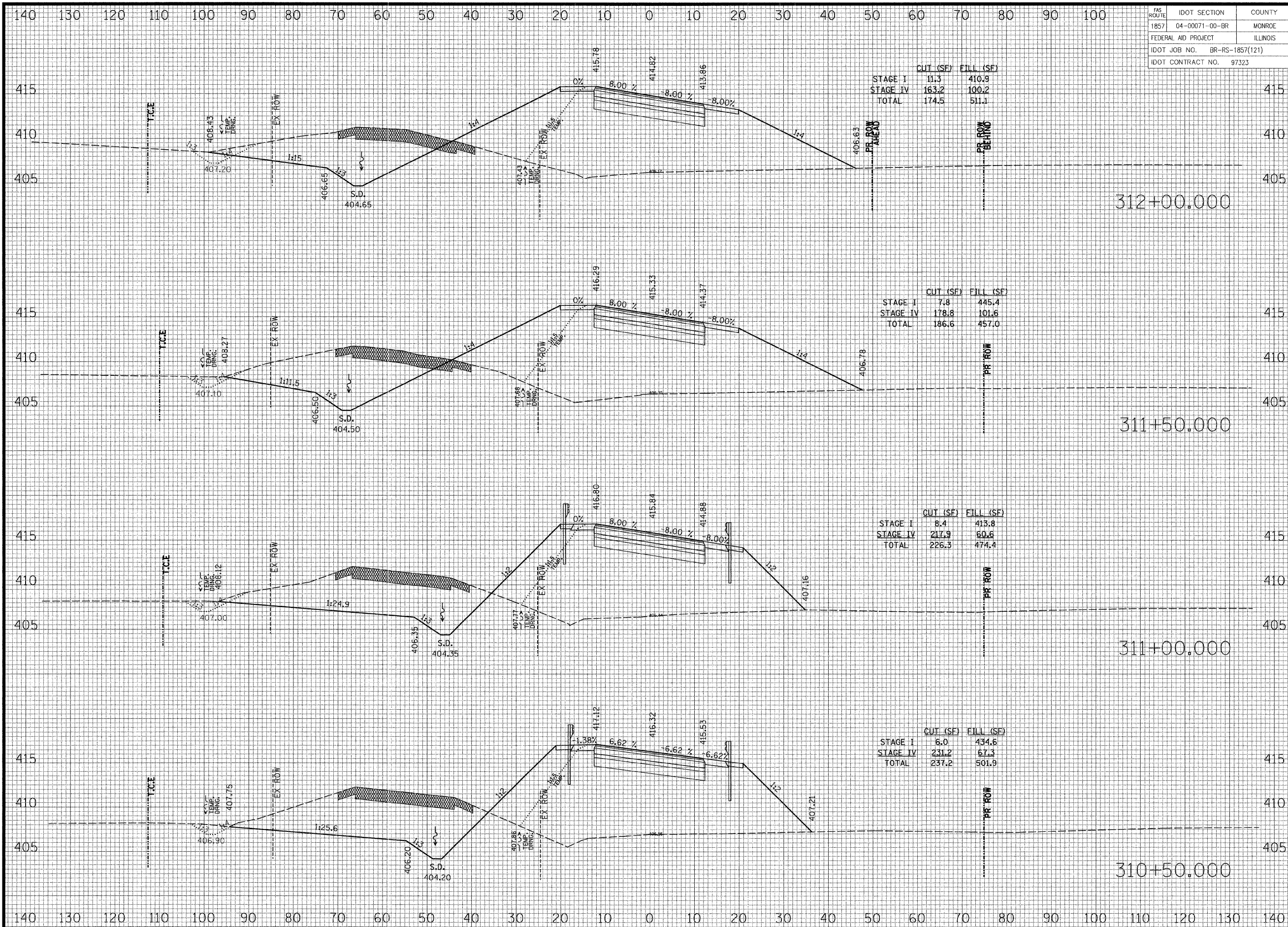
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**CROSS SECTIONS**  
**BLUFF ROAD**  
**BRIDGE REPLACEMENT**  
**OVER FOUNTAIN CREEK**  
**MONROE COUNTY, IL**

| REV. | DATE | DESCRIPTION |
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| DRAWN BY: KBF/JWS          | SHEET 56             |
| DESIGNED BY: BJG           | OF 67 SHEETS         |
| CHECKED BY: SJK            | PROJECT DESCRIPTION  |
| APPROVED BY: SJK           | BLUFF RD. BRIDGE     |
| PROJECT NUMBER: T16-040125 | OVER FOUNTAIN CRK.   |
| ☐ ISSUED FOR REVIEW        | ☐ ISSUED FOR BIDDING |
| ☒ ISSUED FOR CONSTR.       | ☐ RECORD DRAWING     |





|                              |                |        |
|------------------------------|----------------|--------|
| FAS ROUTE                    | IDOT SECTION   | COUNTY |
| 1857                         | 04-00071-00-BR | MONROE |
| FEDERAL AID PROJECT          |                |        |
| ILLINOIS                     |                |        |
| IDOT JOB NO. BR-RS-1857(121) |                |        |
| IDOT CONTRACT NO. 97323      |                |        |

|          | CUT (SF) | FILL (SF) |
|----------|----------|-----------|
| STAGE I  | 11.3     | 410.9     |
| STAGE IV | 163.2    | 100.2     |
| TOTAL    | 174.5    | 511.1     |

|          | CUT (SF) | FILL (SF) |
|----------|----------|-----------|
| STAGE I  | 7.8      | 445.4     |
| STAGE IV | 178.8    | 101.6     |
| TOTAL    | 186.6    | 457.0     |

|          | CUT (SF) | FILL (SF) |
|----------|----------|-----------|
| STAGE I  | 8.4      | 413.8     |
| STAGE IV | 217.9    | 60.6      |
| TOTAL    | 226.3    | 474.4     |

|          | CUT (SF) | FILL (SF) |
|----------|----------|-----------|
| STAGE I  | 6.0      | 434.6     |
| STAGE IV | 231.2    | 67.3      |
| TOTAL    | 237.2    | 501.9     |

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| PROFESSIONAL REGISTRATIONS          | LICENSE NO. |
|-------------------------------------|-------------|
| ILLINOIS PROFESSIONAL DESIGN FIRM   | 184-00120   |
| PROFESSIONAL ENGINEERING CORP.      | 62-035370   |
| PROFESSIONAL STRUCTURAL ENGR. CORP. | 81-005002   |
| ILLINOIS PROF. LAND SURVEYING CORP. | 048-000029  |
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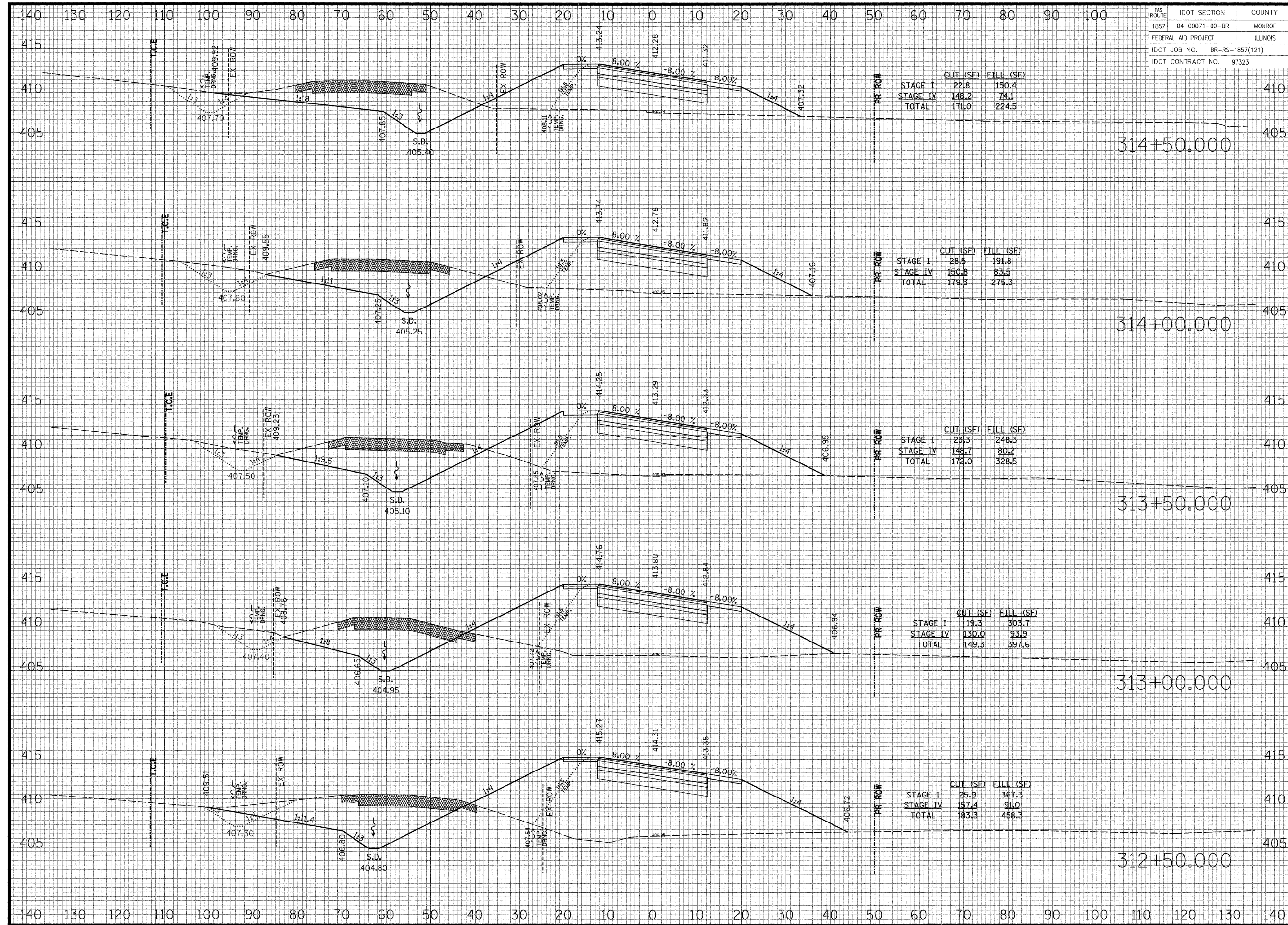
CROSS SECTIONS  
BLUFF ROAD

PROJECT: BLUFF ROAD (CTY. HWY. 6)  
BRIDGE REPLACEMENT  
OVER FOUNTAIN CREEK  
MONROE COUNTY, IL

| REV. | DATE | DESCRIPTION |
|------|------|-------------|
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| DRAWN BY: KBF/JWS                                                                              | SHEET 57            |
| DESIGNED BY: B/JG                                                                              | OF 67 SHEETS        |
| CHECKED BY: SJK                                                                                | PROJECT DESCRIPTION |
| APPROVED BY: SJK                                                                               | BLUFF RD. BRIDGE    |
| PROJECT NUMBER: 116-040125                                                                     | OVER FOUNTAIN CRK.  |
| <input type="checkbox"/> ISSUED FOR REVIEW <input type="checkbox"/> ISSUED FOR BIDDING         |                     |
| <input checked="" type="checkbox"/> ISSUED FOR CONSTR. <input type="checkbox"/> RECORD DRAWING |                     |





| FAS ROUTE                    | IDOT SECTION   | COUNTY |
|------------------------------|----------------|--------|
| 1857                         | 04-00071-00-BR | MONROE |
| FEDERAL AID PROJECT          |                |        |
| ILLINOIS                     |                |        |
| IDOT JOB NO. BR-RS-1857(121) |                |        |
| DOT CONTRACT NO. 97323       |                |        |

|          | CUT (SF) | FILL (SF) |
|----------|----------|-----------|
| STAGE I  | 22.8     | 150.4     |
| STAGE IV | 148.2    | 74.1      |
| TOTAL    | 171.0    | 224.5     |

|          | CUT (SF) | FILL (SF) |
|----------|----------|-----------|
| STAGE I  | 28.5     | 191.8     |
| STAGE IV | 150.8    | 83.5      |
| TOTAL    | 179.3    | 275.3     |

|          | CUT (SF) | FILL (SF) |
|----------|----------|-----------|
| STAGE I  | 23.3     | 248.3     |
| STAGE IV | 148.7    | 80.2      |
| TOTAL    | 172.0    | 328.5     |

|          | CUT (SF) | FILL (SF) |
|----------|----------|-----------|
| STAGE I  | 19.3     | 303.7     |
| STAGE IV | 130.0    | 93.9      |
| TOTAL    | 149.3    | 397.6     |

|          | CUT (SF) | FILL (SF) |
|----------|----------|-----------|
| STAGE I  | 25.9     | 367.3     |
| STAGE IV | 157.4    | 91.0      |
| TOTAL    | 183.3    | 458.3     |

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| PROFESSIONAL REGISTRATIONS          | LICENSE NO. |
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| PROFESSIONAL ENGINEERING CORP.      | 62-035370   |
| PROFESSIONAL STRUCTURAL ENGR. CORP. | 81-005202   |
| ILLINOIS PROF. LAND SURVEYING CORP. | 048-000029  |
| MISSOURI PROFESSIONAL ENGR. CORP.   | NC 001528   |
| MISSOURI LAND SURVEYING CORP.       | NC 000346   |

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CROSS SECTIONS  
BLUFF ROAD

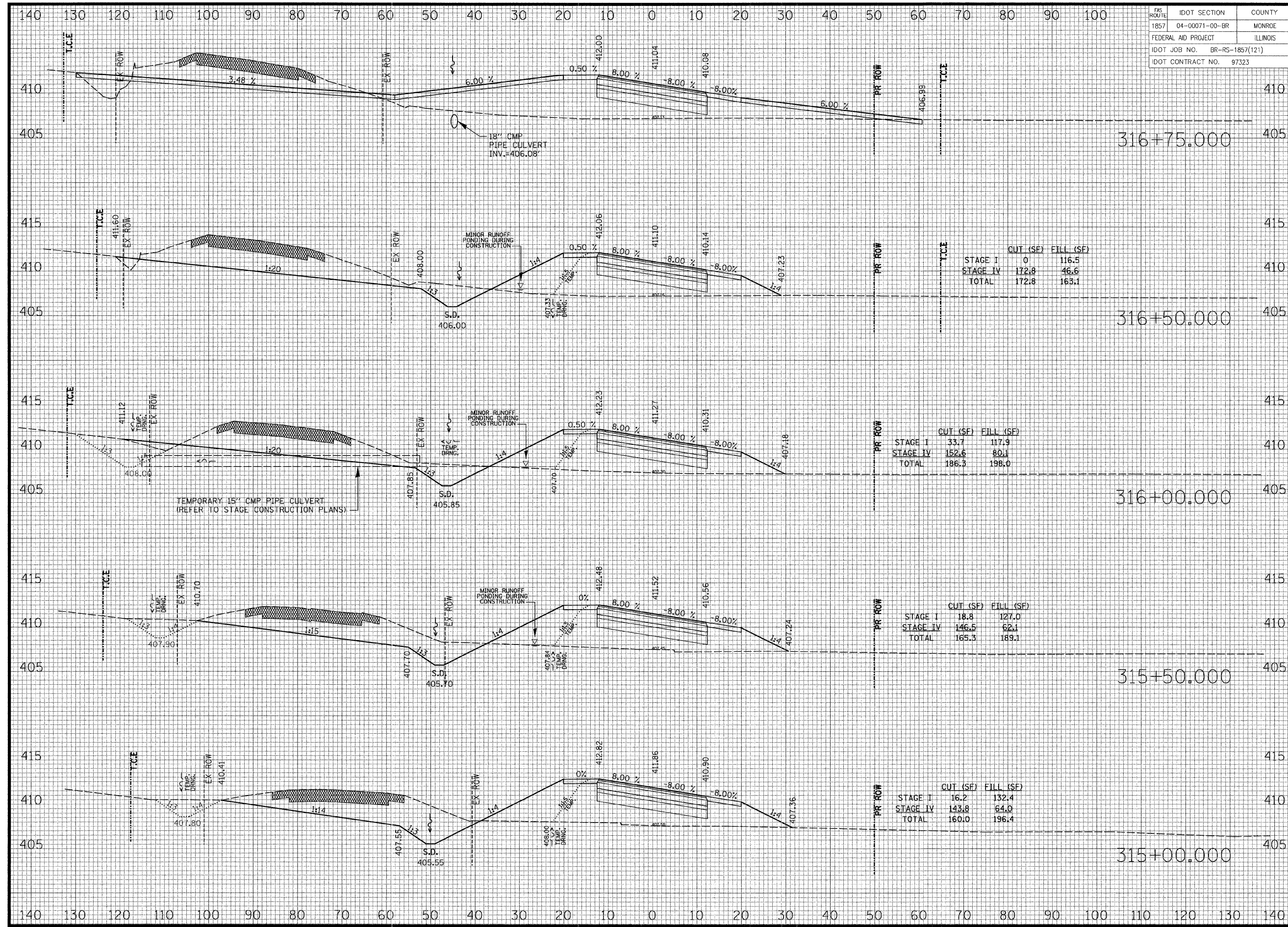
PROJECT:  
BLUFF ROAD (CTY. HWY. 6)  
BRIDGE REPLACEMENT  
OVER FOUNTAIN CREEK  
MONROE COUNTY, IL

| REV. | DATE | DESCRIPTION |
|------|------|-------------|
| △    |      |             |
| △    |      |             |
| △    |      |             |

DRAWN BY: KBF/JWS  
DESIGNED BY: BJC  
CHECKED BY: SJK  
APPROVED BY: SJK  
PROJECT DESCRIPTION: BLUFF RD. BRIDGE  
PROJECT NUMBER: T16-040125 OVER FOUNTAIN CRK.  
□ ISSUED FOR REVIEW □ ISSUED FOR BIDDING  
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SHEET  
58  
OF 67 SHEETS





|                     |                 |        |
|---------------------|-----------------|--------|
| FAS ROUTE           | IDOT SECTION    | COUNTY |
| 1857                | 04-00071-00-BR  | MONROE |
| FEDERAL AID PROJECT |                 |        |
| ILLINOIS            |                 |        |
| IDOT JOB NO.        | BR-RS-1857(121) |        |
| DOT CONTRACT NO.    | 97323           |        |

|          | CUT (SF) | FILL (SF) |
|----------|----------|-----------|
| STAGE I  | 0        | 116.5     |
| STAGE IV | 172.8    | 46.6      |
| TOTAL    | 172.8    | 165.1     |

|          | CUT (SF) | FILL (SF) |
|----------|----------|-----------|
| STAGE I  | 33.7     | 117.9     |
| STAGE IV | 152.6    | 80.1      |
| TOTAL    | 186.3    | 198.0     |

|          | CUT (SF) | FILL (SF) |
|----------|----------|-----------|
| STAGE I  | 18.8     | 127.0     |
| STAGE IV | 146.5    | 62.1      |
| TOTAL    | 165.3    | 189.1     |

|          | CUT (SF) | FILL (SF) |
|----------|----------|-----------|
| STAGE I  | 16.2     | 132.4     |
| STAGE IV | 143.8    | 64.0      |
| TOTAL    | 160.0    | 196.4     |

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| PROFESSIONAL STRUCTURAL ENGR. CORP. | 81-005002   |
| ILLINOIS PROF. LAND SURVEYING CORP. | 048-000029  |
| MISSOURI PROFESSIONAL ENGR. CORP.   | NC 001528   |
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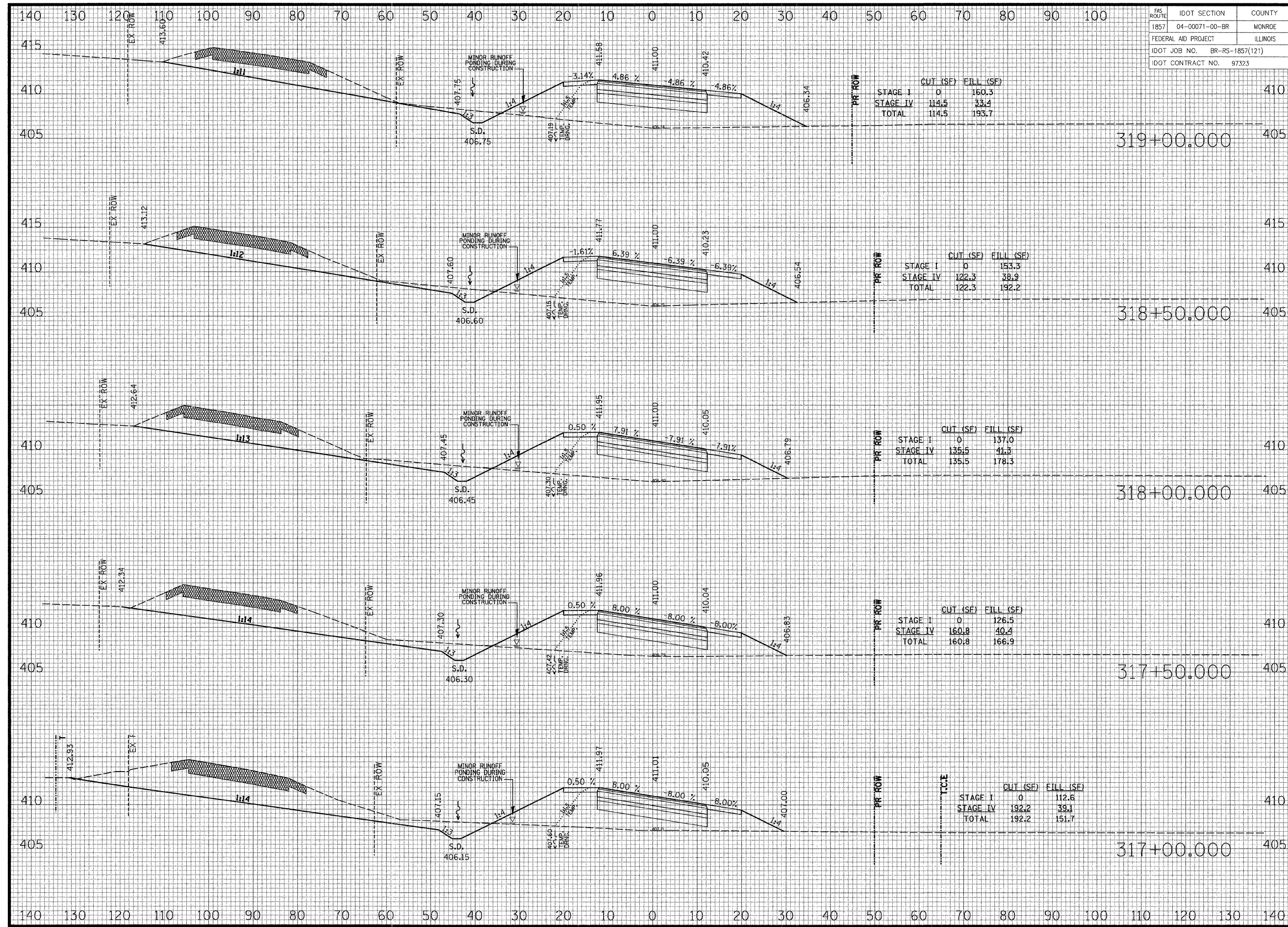
**BLUFF ROAD (CTY. HWY. 6)  
BRIDGE REPLACEMENT  
OVER FOUNTAIN CREEK  
MONROE COUNTY, IL**

TITLE

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|                                                        |                                             |
|--------------------------------------------------------|---------------------------------------------|
| DRAWN BY: KBF/JWS                                      | SHEET                                       |
| DESIGNED BY: BJG                                       | <b>59</b>                                   |
| CHECKED BY: SJK                                        | OF 67 SHEETS                                |
| APPROVED BY: SJK                                       | PROJECT DESCRIPTION                         |
| PROJECT NUMBER: 116-040125                             | BLUFF RD. BRIDGE OVER FOUNTAIN CRK.         |
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| FAS ROUTE                    | IDOT SECTION   | COUNTY |
|------------------------------|----------------|--------|
| 1857                         | 04-00071-00-BR | MONROE |
| FEDERAL AID PROJECT          |                |        |
| ILLINOIS                     |                |        |
| IDOT JOB NO. BR-RS-1857(121) |                |        |
| DOT CONTRACT NO. 97323       |                |        |

|          | CUT (SF) | FILL (SF) |
|----------|----------|-----------|
| STAGE I  | 0        | 160.3     |
| STAGE IV | 114.5    | 33.4      |
| TOTAL    | 114.5    | 193.7     |

|          | CUT (SF) | FILL (SF) |
|----------|----------|-----------|
| STAGE I  | 0        | 153.3     |
| STAGE IV | 122.3    | 38.9      |
| TOTAL    | 122.3    | 192.2     |

|          | CUT (SF) | FILL (SF) |
|----------|----------|-----------|
| STAGE I  | 0        | 137.0     |
| STAGE IV | 135.5    | 41.3      |
| TOTAL    | 135.5    | 178.3     |

|          | CUT (SF) | FILL (SF) |
|----------|----------|-----------|
| STAGE I  | 0        | 126.5     |
| STAGE IV | 160.8    | 40.4      |
| TOTAL    | 160.8    | 166.9     |

|          | CUT (SF) | FILL (SF) |
|----------|----------|-----------|
| STAGE I  | 0        | 112.6     |
| STAGE IV | 192.2    | 39.1      |
| TOTAL    | 192.2    | 151.7     |

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| PROFESSIONAL STRUCTURAL ENGR. CORP. | 81-005202   |
| ILLINOIS PROF. LAND SURVEYING CORP. | 048-000029  |
| MISSOURI PROFESSIONAL ENGR. CORP.   | NC 001528   |
| MISSOURI LAND SURVEYING CORP.       | NC 000346   |

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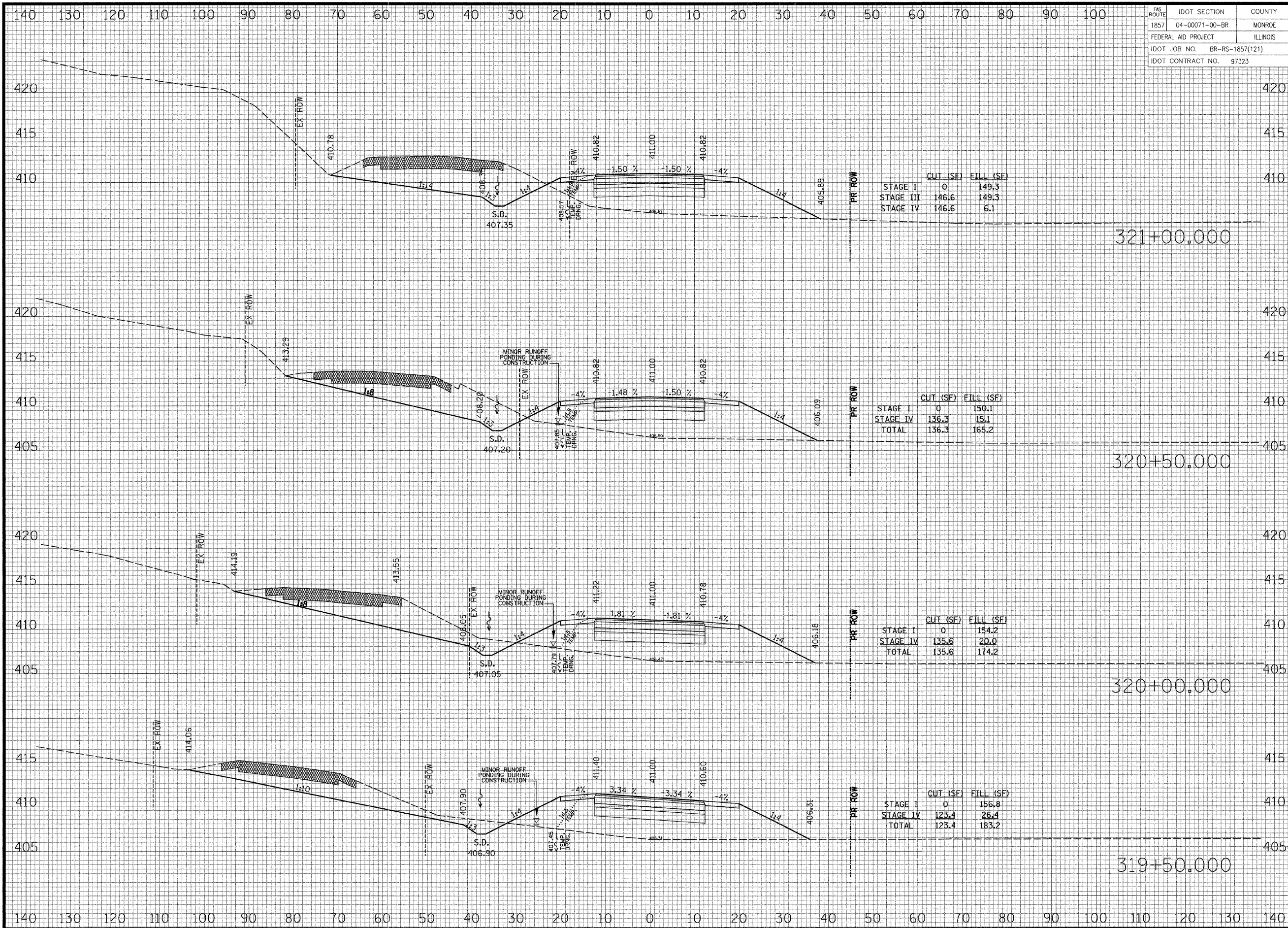
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BLUFF ROAD  
BLUFF ROAD (CTY. HWY. 6)  
BRIDGE REPLACEMENT  
OVER FOUNTAIN CREEK  
MONROE COUNTY, IL

| REV. | DATE | DESCRIPTION |
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|----------------------------|----------------------------------------|
| DRAWN BY: KBF/JWS          | SHEET 60                               |
| DESIGNED BY: B/JG          | OF 67 SHEETS                           |
| CHECKED BY: SJK            |                                        |
| APPROVED BY: SJK           | PROJECT DESCRIPTION                    |
| PROJECT NUMBER: 116-040125 | BLUFF RD. BRIDGE<br>OVER FOUNTAIN CRK. |
| □ ISSUED FOR REVIEW        | □ ISSUED FOR BIDDING                   |
| ✕ ISSUED FOR CONSTR.       | □ RECORD DRAWING                       |





| FAS ROUTE                    | IDOT SECTION   | COUNTY   |
|------------------------------|----------------|----------|
| 1857                         | 04-00071-00-BR | MONROE   |
| FEDERAL AID PROJECT          |                | ILLINOIS |
| IDOT JOB NO. BR-RS-1857(121) |                |          |
| IDOT CONTRACT NO. 97323      |                |          |

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BLUFF ROAD

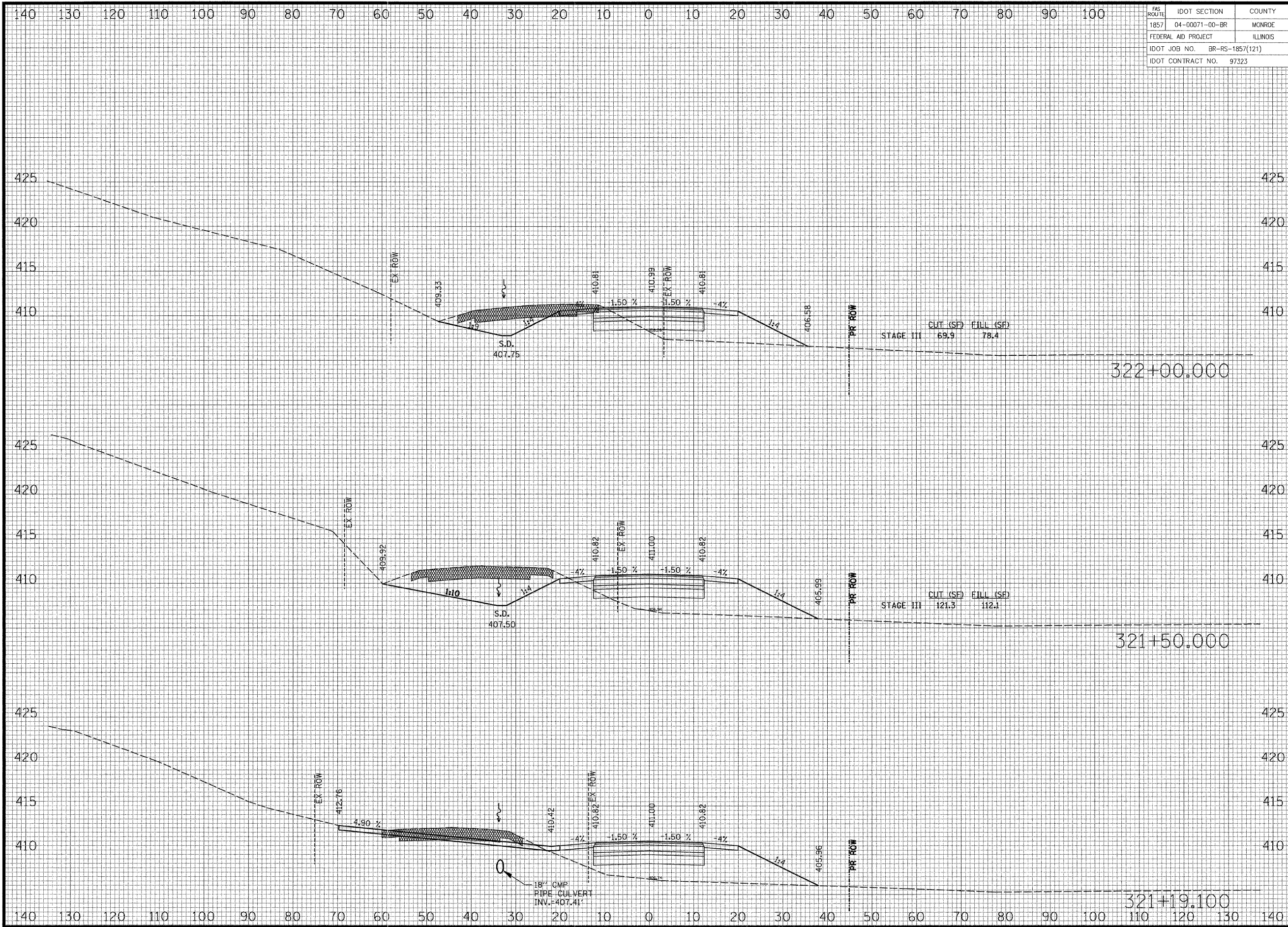
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BRIDGE REPLACEMENT  
OVER FOUNTAIN CREEK  
MONROE COUNTY, IL

TITLE

| REV. | DATE | DESCRIPTION |
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|                            |                      |
|----------------------------|----------------------|
| DRAWN BY: KBF/JWS          | SHEET 61             |
| DESIGNED BY: BJG           | OF 67 SHEETS         |
| CHECKED BY: SJK            | PROJECT DESCRIPTION  |
| APPROVED BY: SJK           | BLUFF RD. BRIDGE     |
| PROJECT NUMBER: 116-040125 | OVER FOUNTAIN CRK.   |
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|------------------------------|----------------|--------|
| FAS ROUTE                    | IDOT SECTION   | COUNTY |
| 1857                         | 04-00071-00-BR | MONROE |
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| ILLINOIS                     |                |        |
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| IDOT CONTRACT NO. 97323      |                |        |

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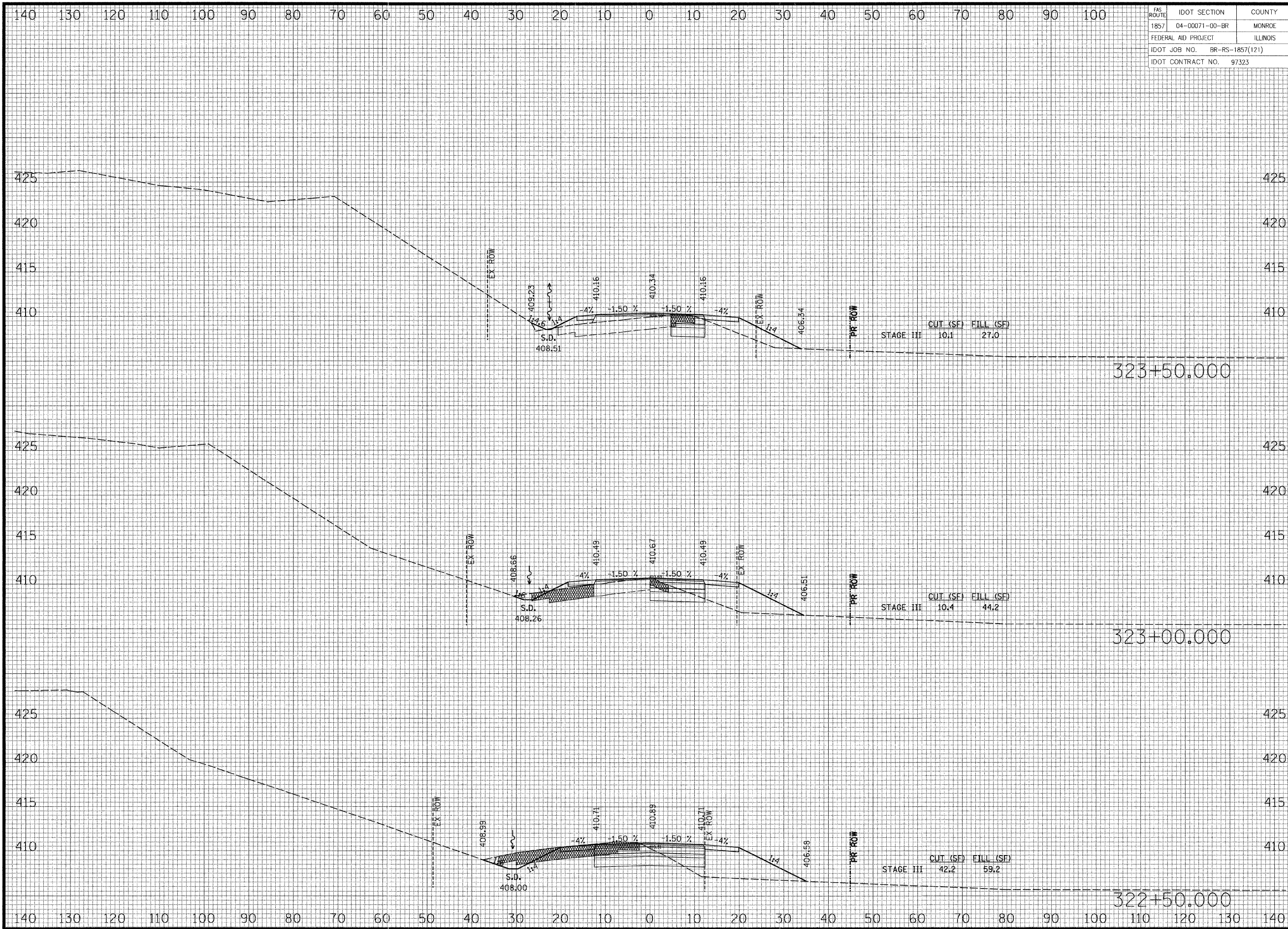
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**MONROE COUNTY, IL**

| REV. | DATE | DESCRIPTION |
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| DRAWN BY: KBF/JWS                                      | SHEET                                       |
| DESIGNED BY: BJC                                       | 62                                          |
| CHECKED BY: SJK                                        | OF 67 SHEETS                                |
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| PROJECT NUMBER 116-040125                              | BLUFF RD. BRIDGE OVER FOUNTAIN CRK.         |
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| FAS ROUTE                    | IDOT SECTION   | COUNTY |
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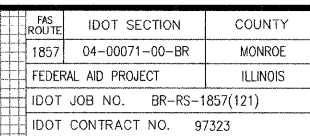
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**BLUFF ROAD**  
**BLUFF ROAD (CTY. HWY. 6)**  
**BRIDGE REPLACEMENT**  
**OVER FOUNTAIN CREEK**  
**MONROE COUNTY, IL**

| REV. | DATE | DESCRIPTION |
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|                                                        |                                             |
|--------------------------------------------------------|---------------------------------------------|
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| DESIGNED BY: BJC                                       | <b>63</b>                                   |
| CHECKED BY: SJK                                        | OF 67 SHEETS                                |
| APPROVED BY: SJK                                       | PROJECT DESCRIPTION                         |
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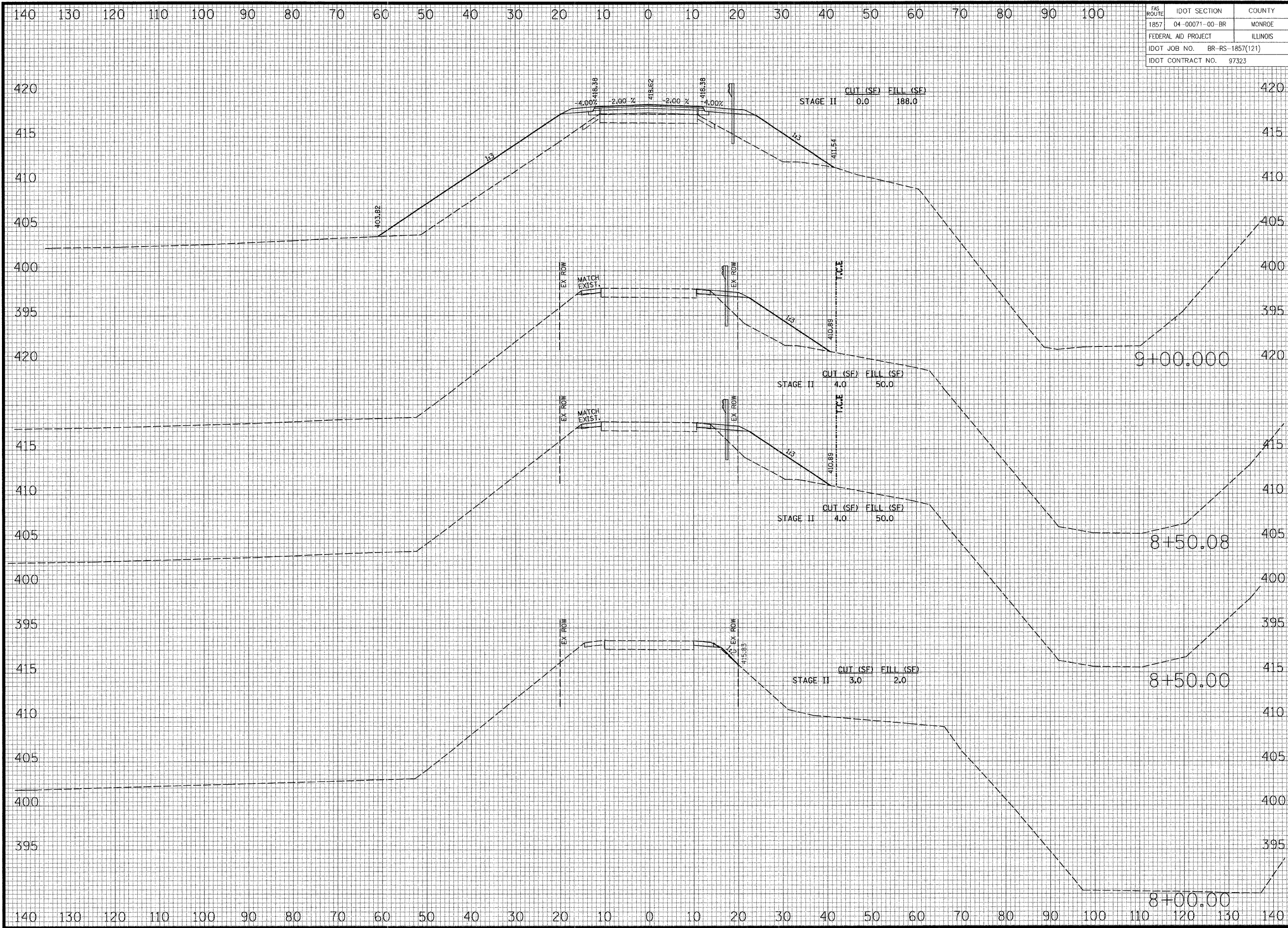
CROSS SECTIONS  
RILEE ROAD

BLUFF ROAD (CTY. HWY. 6)  
BRIDGE REPLACEMENT  
OVER FOUNTAIN CREEK  
MONROE COUNTY, LA

| REV. | DATE | DESCRIPTION |
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|--------------------------------------------------------|---------------------------------------------------------------|
| DRAWN BY: KBF/JWS                                      | SHEET                                                         |
| DESIGNED BY: BJG                                       | 64                                                            |
| CHECKED BY: SJK                                        |                                                               |
| APPROVED BY: SJK                                       | OF 67 SHEETS                                                  |
| PROJECT NUMBER: T16-040125                             | PROJECT DESCRIPTION<br>BLUFF RD. BRIDGE<br>OVER FOUNTAIN CRK. |
| <input type="checkbox"/> ISSUED FOR REVIEW             | <input type="checkbox"/> ISSUED FOR BIDDING                   |
| <input checked="" type="checkbox"/> ISSUED FOR CONSTR. | <input type="checkbox"/> RECORD DRAWING                       |





|                              |                |          |
|------------------------------|----------------|----------|
| FAS ROUTE                    | IDOT SECTION   | COUNTY   |
| 1857                         | 04-00071-00-BR | MONROE   |
| FEDERAL AID PROJECT          |                | ILLINOIS |
| IDOT JOB NO. BR-RS-1857(121) |                |          |
| IDOT CONTRACT NO. 97323      |                |          |

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WATERLOO, ILLINOIS 62298  
TEL (618) 939-5050  
FAX (618) 939-3938  
waterloo@twn-inc.com

| PROFESSIONAL REGISTRATIONS          | LICENSE NO. |
|-------------------------------------|-------------|
| ILLINOIS PROFESSIONAL DESIGN FIRM   | 184-001220  |
| PROFESSIONAL ENGINEERING CORP.      | 62-035370   |
| PROFESSIONAL STRUCTURAL ENGR. CORP. | 81-005202   |
| ILLINOIS PROF. LAND SURVEYING CORP. | 048-000029  |
| MISSOURI PROFESSIONAL ENGR. CORP.   | NC 001528   |
| MISSOURI LAND SURVEYING CORP.       | NC 000346   |

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CROSS SECTIONS  
"B" ROAD  
BLUFF ROAD (CTY. HWY. 6)  
BRIDGE REPLACEMENT  
OVER FOUNTAIN CREEK  
MONROE COUNTY, IL

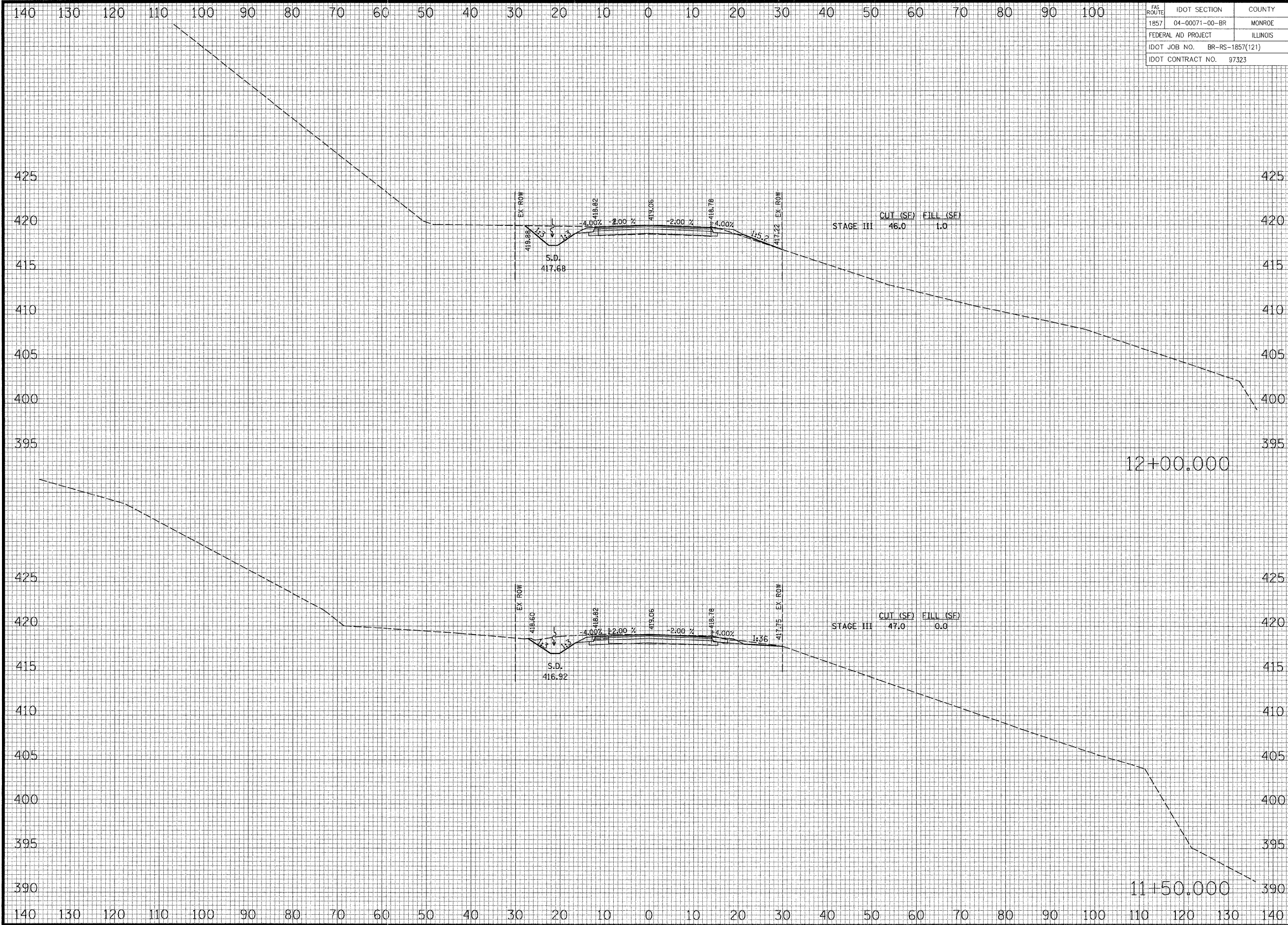
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| DESIGNED BY: BJG                                       | 65                                          |
| CHECKED BY: SJK                                        | OF 67 SHEETS                                |
| APPROVED BY: SJK                                       | PROJECT DESCRIPTION                         |
| PROJECT NUMBER: 16-040125                              | BLUFF RD. BRIDGE<br>OVER FOUNTAIN CRK.      |
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| FAS ROUTE                    | IDOT SECTION   | COUNTY   |
|------------------------------|----------------|----------|
| 1857                         | 04-00071-00-BR | MONROE   |
| FEDERAL AID PROJECT          |                | ILLINOIS |
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| PROFESSIONAL STRUCTURAL ENGR. CORP. | 81-005202   |
| ILLINOIS PROF. LAND SURVEYING CORP. | 048-000029  |
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CROSS SECTIONS  
HANOVER ROAD

PROJECT:  
BLUFF ROAD (CTY. HWY. 6)  
BRIDGE REPLACEMENT  
OVER FOUNTAIN CREEK  
MONROE COUNTY, IL

TITLE

| REV. | DATE | DESCRIPTION |
|------|------|-------------|
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| △    |      |             |
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| DESIGNED BY: BJG                                       | 67                                          |
| CHECKED BY: SJK                                        | OF 67 SHEETS                                |
| APPROVED BY: SJK                                       | PROJECT DESCRIPTION                         |
| PROJECT NUMBER: 16-040125                              | BLUFF RD. BRIDGE<br>OVER FOUNTAIN CRK.      |
| <input type="checkbox"/> ISSUED FOR REVIEW             | <input type="checkbox"/> ISSUED FOR BIDDING |
| <input checked="" type="checkbox"/> ISSUED FOR CONSTR. | <input type="checkbox"/> RECORD DRAWING     |