

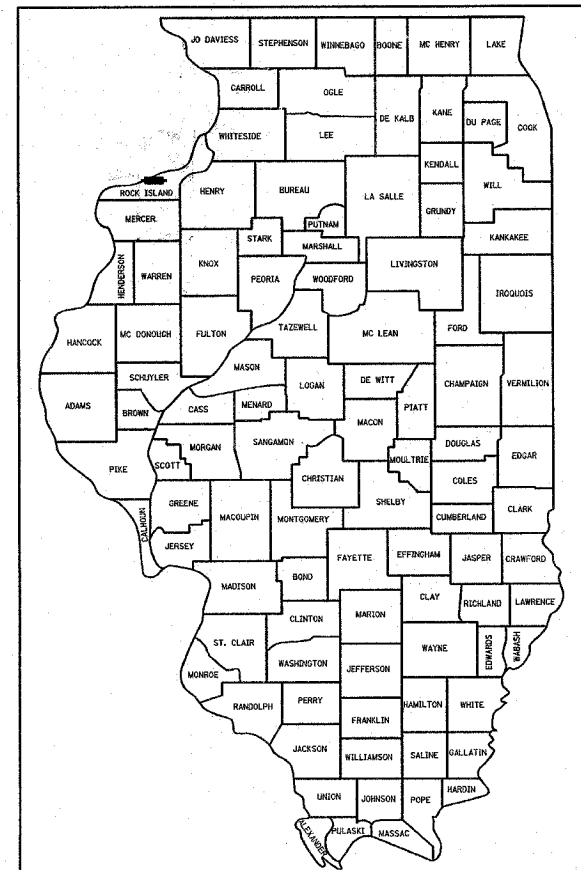
| F.A.P. RTE. | SECTION        | COUNTY      | TOTAL SHEETS | SHEET NO. |
|-------------|----------------|-------------|--------------|-----------|
|             | 05-00174-00-BT | ROCK ISLAND | 112          | 1         |

112+2 = 114

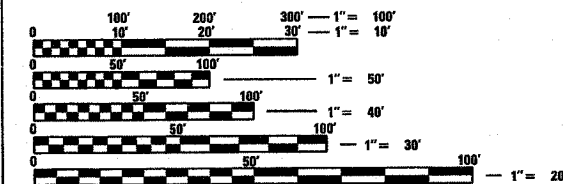
| INDEX OF SHEETS |                                 |
|-----------------|---------------------------------|
| SHT NO          | TITLE                           |
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| 81-93           | CITY OF ROCK ISLAND STANDARDS   |
| 94-112          | CROSS SECTIONS                  |

# PROPOSED HIGHWAY PLANS CITY OF ROCK ISLAND

(MS 1270 A) 11TH AVENUE  
ROCK ISLAND COUNTY  
SECTION 05-00174-00-BT  
PROJECT NO. HPP-4113-(001)  
JOB NO. C-92-050-06  
CONTRACT #85427



LOCATION OF SECTION INDICATED THUS: - [black rectangle] -



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

### LOCATION MAP

NET LENGTH OF PROJECT = 506.77 FEET = 0.096 MILES

| AGENCY RESPONSIBLE FOR LETTING                  |   |
|---|---|
| APPROVED  | <i>March 19 2008</i><br>CITY ENGINEER, CITY OF ROCK ISLAND              |
| PASSED  | <i>April 15 20 08</i><br>DISTRICT 2 ENGINEER LOCAL ROADS AND STREETS    |
| RELEASING FOR BID<br>BASED ON LIMITED<br>REVIEW | <i>April 15 20 08</i><br>DEPUTY DIRECTOR OF HIGHWAYS, REGION 2 ENGINEER |

### ENGINEER'S CERTIFICATE

I HEREBY CERTIFY THAT THIS ENGINEERING DOCUMENT WAS PREPARED BY ME OR UNDER MY DIRECT PERSONAL SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF ILLINOIS.

*Dwight T. Schwertley*  
DWIGHT T. SCHWERTLEY  
IL REGISTRATION NO. 062-033622  
DATE *3/19/08*



PAGES OR SHEETS COVERED BY THIS SEAL: 1-53, 73-112

CONSULTANT : DWIGHT T. SCHWERTLEY  
MISSMAN, STANLEY & ASSOCIATES  
309-283-1596















|                     |                |             |                  |           |
|---------------------|----------------|-------------|------------------|-----------|
| F.A.P. RTE.         | SECTION        | COUNTY      | TOTAL SHEETS     | SHEET NO. |
|                     | 05-00174-00-B1 | ROCK ISLAND | 112              | 8         |
| STA.                |                | TO STA.     |                  |           |
| FED. ROAD DIST. NO. |                | ILLINOIS    | FED. AID PROJECT |           |

# SUMMARY OF QUANTITIES

| CODE NUMBER      | PAY ITEMS  | UNIT  | TOTAL QUANTITY | 80% FED       | 80% FED   | 80% FED    | 80% FED       | 80% FED       | 80% FED       | 80% FED       | 80% FED |
|------------------|--|-------|----------------|---------------|-----------|------------|---------------|---------------|---------------|---------------|---------|
|                  |  |       |                | 20% CITY      | 20% OTHER | 20% OTHER  | 20% CITY      | 20% OTHER     | 20% CITY      | 20% OTHER     |         |
|                  |  |       |                | J000          | Y046      | SFTY-2A    | Y007          | Y007          | Y030-1E       | Y030-1E       |         |
|                  |  |       |                | P.C. CONCRETE | P.C. PATH | STRUCTURES | MINOR STRUCT. | MINOR STRUCT. | HWY. LIGHTING | HWY. LIGHTING |         |
| • XX003796       | TAP & CORP. 1"                                       | EACH  | 3              |               | 3         |            |               |               |               |               |         |
| • XX003799       | COPPER SERVICE, TYPE K 1"                            | FOOT  | 96             |               | 96        |            |               |               |               |               |         |
| XX004951         | CONCRETE STAIRS                                      | L.SUM | 1              |               |           | 1          |               |               |               |               |         |
| XX005355         | STEEP SLOPE VEGETATION, SPECIAL                      | S.Y.  | 2,200          |               |           | 2,200      |               |               |               |               |         |
| XX005425         | LANDSCAPE BOLLARDS                                   | EACH  | 14             |               |           |            |               |               |               | 14            |         |
| XX005763         | CATCH BASINS, DOUBLE                                 | EACH  | 4              |               | 4         |            |               |               |               |               |         |
| XX005764         | CATCH BASINS, SINGLE                                 | EACH  | 1              |               | 1         |            |               |               |               |               |         |
| * XX005782       | DUCTILE IRON WATER MAIN FITTINGS REDUCER 12"x8"      | EACH  | 1              |               | 1         |            |               |               |               |               |         |
| • XX005784       | DUCTILE IRON WATER MAIN FITTINGS TEE 12" X 4"        | EACH  | 1              |               | 1         |            |               |               |               |               |         |
| * XX005788       | DUCTILE IRON WATER MAIN FITTINGS TEE 8"x8"           | EACH  | 2              |               | 2         |            |               |               |               |               |         |
| • XX006179       | SANITARY MANHOLE REMOVAL & REPLACEMENT               | EACH  | 2              |               | 2         |            |               |               |               |               |         |
| * XX006875       | TAP & CORPORATION VALVE 1 1/2"                       | EACH  | 1              |               | 1         |            |               |               |               |               |         |
| XX006884         | CRUSHED STONE TRENCH FOUNDATION                      | C.Y.  | 20             |               | 20        |            |               |               |               |               |         |
| • XX006995       | LUMINAIRE, METAL HALIDE, 100 WATT, TYPE III, SPECIAL | EACH  | 11             |               |           |            |               |               |               |               | 11      |
| • X0300558       | SANITARY SEWER REMOVAL AND REPLACEMENT 8"            | FOOT  | 374            |               | 374       |            |               |               |               |               |         |
| • X0321473       | PIPE ELBOW, 15"                                      | EACH  | 1              |               |           | 1          |               |               |               |               |         |
| X0322033         | STORM SEWER (WATER MAIN REQUIREMENTS) 12 INCH        | FOOT  | 129            |               | 129       |            |               |               |               |               |         |
| X0322034         | STORM SEWER (WATER MAIN REQUIREMENTS) 15 INCH        | FOOT  | 115            |               | 115       |            |               |               |               |               |         |
| • X0322508       | PEDESTRIAN TRUSS SUPERSTRUCTURE                      | S.F.  | 3,502          |               |           | 3,502      |               |               |               |               |         |
| X0322672         | SPLIT RAIL FENCE TO BE REMOVED AND RE-ERECTED        | FOOT  | 185            |               | 185       |            |               |               |               |               |         |
| X0322923         | SEGMENTAL CONCRETE BLOCK WALL                        | S.F.  | 490            |               |           |            |               | 490           |               |               |         |
| • X0323190       | DUCTILE IRON WATER MAIN TEE, 12"x12"                 | EACH  | 1              |               | 1         |            |               |               |               |               |         |
| *SPECIALTY ITEMS |  |       |                |               |           |            |               |               |               |               |         |

PLOT DATE \* DATE \*  
 PLOT SCALE \* SCALE \*  
 USER NAME \* USER \*

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ILLINOIS DEPARTMENT OF TRANSPORTATION

## SUMMARY OF QUANTITIES

SCALE: VERT.      DRAWN BY  
 HORIZ.              CHECKED BY  
 DATE



| F.A.P. RTE.         | SECTION        | COUNTY           | TOTAL SHEETS | SHEET NO. |
|---------------------|----------------|------------------|--------------|-----------|
|                     | 05-00174-00-BT | ROCK ISLAND      | 112          | 10        |
| STA.                |                | TO STA.          |              |           |
| FED. ROAD DIST. NO. | ILLINOIS       | FED. AID PROJECT |              |           |

# GENERAL NOTES

## GENERAL NOTES

- See cross sections for special ditches and backslopes.
- The removal and disposal of Bituminous Surfacing not on a rigid type base removed in conjunction with the base shall be removed as EARTH EXCAVATION. The removal of Bituminous Surfacing on a rigid type base removed in conjunction with the base shall be included in the contract unit price for PAVEMENT REMOVAL of the type specified.
- The final top six inches of soil in any right-of-way area disturbed by the Contractor must be capable of supporting vegetation. The soil must be from the A horizon (zero to 2' deep) of soil profiles of local soils.
- The Contractor shall seed all disturbed areas not scheduled for sodding within the right of way or easements. Seeding Class 1 (modified) shall be used on 3:1 or flatter slopes. Seeding, Class 3 shall be used on all slopes steeper than 3:1.
- When mulch with emulsified asphalt is applied, it will be the contractor's responsibility to cover or protect all traffic signs, guardrail and curbs. Any signs, guardrail or curbs which become covered with asphalt material shall be cleaned by the Contractor at his own expense.
- Mulch on temporary seeding shall be MULCH METHOD 2.
- All embankment constructed of cohesive soil shall be constructed with not more than 110% of optimum moisture content, determined by the standard proctor test. Cohesive soil shall be defined as any soil which contains greater than 10% particles by weight passing the #200 sieve.
- The following Mixture Requirements are applicable for this project.

|   |                    |
|---|--------------------|
| Mixture Uses(s):                        | HMA Surf. Course   |
| PG:                                     | PG 70-22           |
| Design Air Voids                        | 4% @ N design = 50 |
| Mixture Composition (Gradation Mixture) | IL 9.5 or 12.5     |
| Friction Aggregate                      | Mixture C          |
| 20 Year ESAL                            | ---                |

- Lateral distances from the centerline on all inlets are to the back of curb at the inlet.
- The new manhole lids on this project shall have the word 1STORMA on the lid. No additional compensation will be allowed for this work.
- The cost of making sewer connections to existing drainage structures shall be included in the various contract prices for the STORM SEWER unless otherwise noted.
- Right-of-Way and easements have been surveyed and pins set. Any pins damaged or obliterated by contractor's operations shall be replaced by a Professional Illinois Land Surveyor. This work will be included in the cost of the EARTH EXCAVATION.
- The Contractor shall be responsible for protecting utility property during construction operations as outlined in article 107.26 of the Standard Specifications. The JULIE number is 800-892-0123. These utilities located within the project limits or immediately adjacent to the project construction limits are members of JULIE.

|                          |                           |                            |                           |
|--------------------------|---------------------------|----------------------------|---------------------------|
| AT&T                     | Mid American Energy       | MEDIAQOM                   | Rock Island Sewer & Water |
| 635 18 <sup>th</sup> St. | 2811 5 <sup>th</sup> Ave. | 3900 26 <sup>th</sup> Ave. | 1309 Mill Street          |
| Rock Island, IL 61201    | Rock Island, IL 61201     | Moline, IL 61265           | Rock Island, IL 61201     |
| (309)793-4464            | (309)793-3652             | (309)743-4757              | (309)732-2200             |

These are the known utilities located within the project limits or immediately adjacent to the project construction limits which are not members of JULIE and should be notified individually by the Contractor.

- Tie bars shall be installed to tie PCC appurtenances to adjacent existing concrete pavement. Tie the following to the existing concrete pavement.

|                         | Std.   | Length, size and spacing of Tie Bars |
|-------------------------|--------|--------------------------------------|
| Gutter or Curb & Gutter | 606001 | 24A long No. 6 @ 24A centers         |
| PCC Pavement            | 420101 | 24A long No. 6 @ 30A centers         |

Tie bars to be installed in accordance with the applicable portions of Article 420.05 (b) of the Standard Specifications. See Highway Standard 420001 for detail on longitudinal construction joint grouted-in-place tie bar. The cost of the tie bars to be included in the cost of the PCC appurtenance adjacent to the exiting pavement.

- CADD data will be available to Contractors and Consultants working on this project. This information will be provided upon request as Microstation CADD files ONLY. If data is required in other formats it will be your responsibility to make these conversions. If any discrepancy or inconsistency arises between the electronic data and the information on the hard copy, the information on the hard copy should be used. Contact the City of Rock Island to request these files.

- The following rates of application have been used in calculating plan quantities.

|                                    |      |                   |
|------------------------------------|------|-------------------|
| Granular Materials                 | 2.05 | Tons/C.Y.         |
| Riprap                             | 5    | Tons/C.Y.         |
| Bituminous Material Prime Coat     | 0.35 | Gal/S.Y.          |
| Bituminous Concrete Surface Course | 112  | Lbs/S.Y./Inch     |
| Temporary Ditch Checks             | 9    | Bales or          |
|                                    | 5    | Tons Aggregate or |
|                                    | 35   | Feet Fence        |

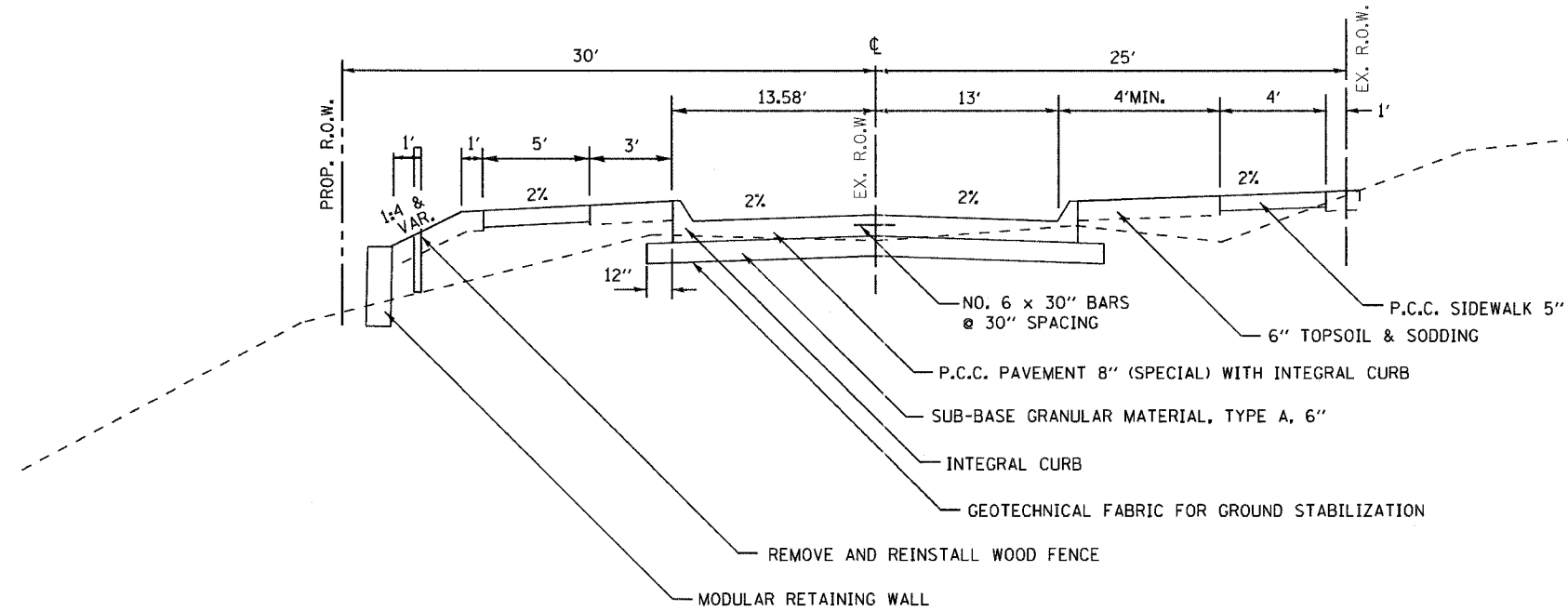
- Where artificial lighting is utilized in night operations, the Contractor shall exercise the utmost precautions in preventing adverse visibility to the motoring public and adjoining residential areas.
- For stabilization, all Type III barricades shall require a minimum of four sandbags per barricade.
- Storm sewer, water main is to be used at locations where lateral separation between the sewer and water main is less than 10 Ft. and the water main invert is less than 1.5 Ft. above the storm sewer crown and at all locations where the water main crosses below the sewer, regardless of vertical separation. Cost included in the various Storm Sewer pay items.
- Existing structures (including foundations, walls, cisterns, broken concrete, wells or other underground structures) within the right-of-way shall be removed in accordance with Article 501.02 and 501.03 of the Standard Specifications, without additional compensation, unless otherwise noted in the plans or special provisions.
- No Overhaul has been computed and none shall be paid for from any source.
- It is estimated that 95 cubic yards of earth will be hauled from 11<sup>th</sup> Avenue to the Nature Trail. Additional excavation, estimated at 851 cubic yards will be wasted outside the project limits. A shrinkage factor of 25% has been used.
- Only those trees designated by the Engineer or listed in the tree removal schedule shall be removed. The Contractor shall protect all remaining trees from damage due to his operations.
- All elevations are referring to U.S.G.S. mean sea level datum.
- Abandoned underground utilities that conflict with construction shall be disposed of outside the limits of the right-of-way according to Article 202.03 of the Standard Specifications and as directed by the Engineer. This work will not be paid for separately but shall be included in the cost of Earth Excavation.
- Any reference to a standard in these plans shall be interpreted to mean the edition as indicated by the subnumber listed on the index of sheets or the copy of the standard included in these plans.
- All roadway Radii shown on the plans are to the back of curb, unless otherwise indicated on the plans.
- Existing road signs that interfere with construction shall be relocated as directed by the Engineer. After the construction is complete, the Contractor shall replace the signs as directed by the Engineer. This work will not be paid separately but shall be considered incidental to the contract and no compensation will be allowed.
- All proposed manholes on this project shall be cast in place or precast. This work will be paid for at the contract unit price each for MANHOLE of the type and size specified.
- Valve Boxes shall be adjusted to the final grade as shown on the plans. The cost of adjusting Valve Boxes shall not be paid for separately but shall be included in the contract unit price for the various items of work.
- In areas of Seeding, Class 1 (Modified), Mulch Method 2 shall utilize Procedure 3.
- Before ordering storm sewers, catch basins, pipe culverts, pipe drains, and manholes, the contractor shall contact the engineer as to the exact length and quantity required.
- Any signing shall be installed by the Contractor prior to completion of the path.

| REVISIONS |      | ILLINOIS DEPARTMENT OF TRANSPORTATION  |
|-----------|------|--|
| NAME      | DATE |  |
|           |      | <h2>GENERAL NOTES</h2> <p>SCALE: VERT.      DRAWN BY<br/>                     HORIZ.              CHECKED BY<br/>                     DATE</p> |
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| F.A. RTE.           | SECTION                   | COUNTY      | TOTAL SHEETS | SHEET NO. |
|                     | 05-00174-00-BT            | ROCK ISLAND | 112          | 11        |
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| FED. ROAD DIST. NO. | ILLINOIS FED. AID PROJECT |             |              |           |

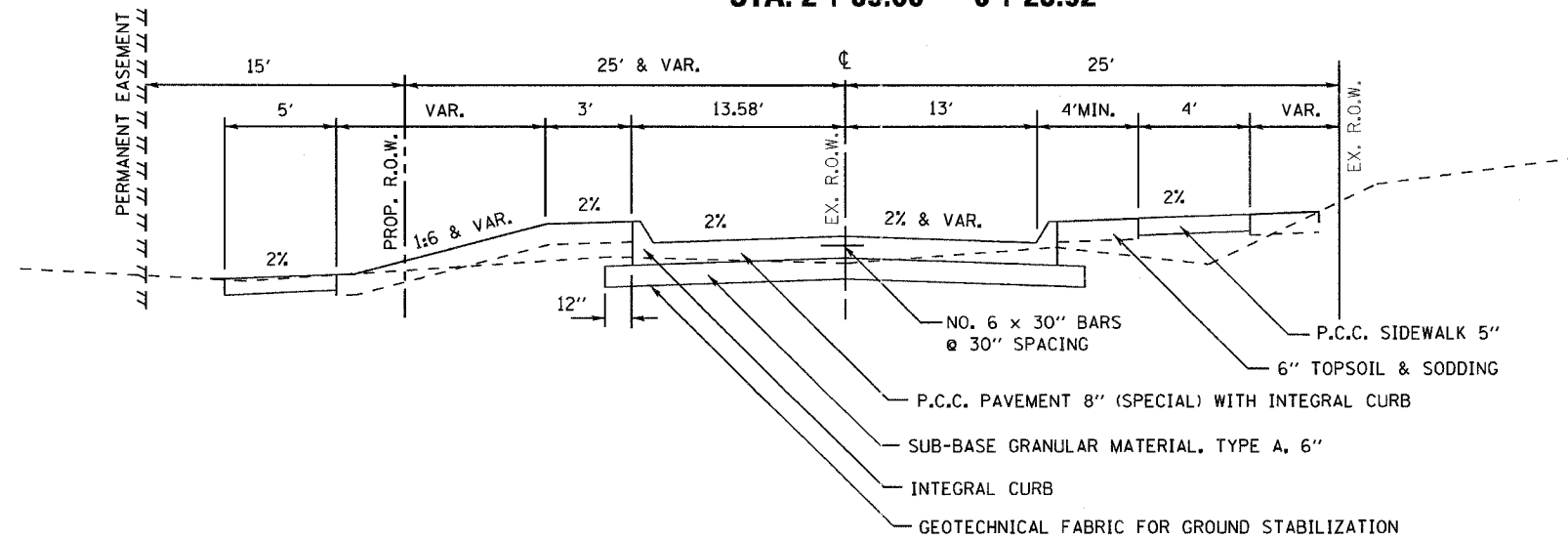
# PROPOSED TYPICAL SECTIONS

## 11TH AVENUE STA. 1+07.60 - 2+85.00



NOTE: PIPE UNDERDRAIN, 4" SHALL BE INSTALLED FOR 10' EACH SIDE OF AND CONNECT INTO DOUBLE CATCH BASINS

## 11TH AVENUE STA. 2+85.00 - 6+23.92



### STRUCTURAL DESIGN INFORMATION (RIGID PAVEMENT)

DESIGN PERIOD: 20 YEARS  
 STRUCTURAL DESIGN TRAFFIC: YEAR 2018  
 PV = 480 SU = 18 MU = 2  
 ROAD/STREET CLASSIFICATION: CLASS VI  
 PERCENT OF STRUCTURAL DESIGN TRAFFIC IN DESIGN LANE:  
 PV = 50% SU = 50% MU = 50%  
 TRAFFIC FACTOR: TF = NA  
 MINIMUM SUBGRADE SUPPORT RATING: POOR

PAVEMENT STRUCTURE:  
 SURFACE : P.C.C. PAVEMENT, 8" (ROCK ISLAND MIN.)  
 BASE : SUB BASE GRANULAR MATERIAL, TYPE A, 6"  
 TRANS. JOINT SPACING : 15' MAX.

PLOT DATE : \*DATES\*  
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 PLOT SCALE : \*SCALE\*  
 USER NAME : \*USERS\*

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ILLINOIS DEPARTMENT OF TRANSPORTATION

### PROPOSED TYPICAL SECTIONS

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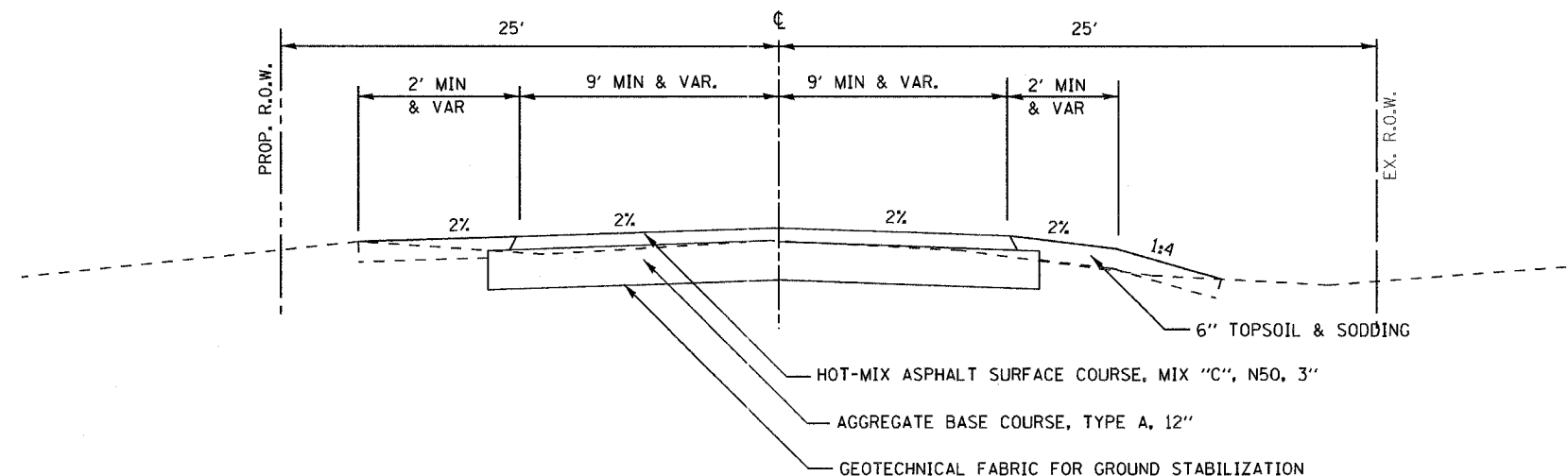
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| F.A. RTE.           | SECTION        | COUNTY                    | TOTAL SHEETS | SHEET NO. |
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| STA.                |                | TO STA.                   |              |           |
| FED. ROAD DIST. NO. |                | ILLINOIS FED. AID PROJECT |              |           |

# PROPOSED TYPICAL SECTIONS

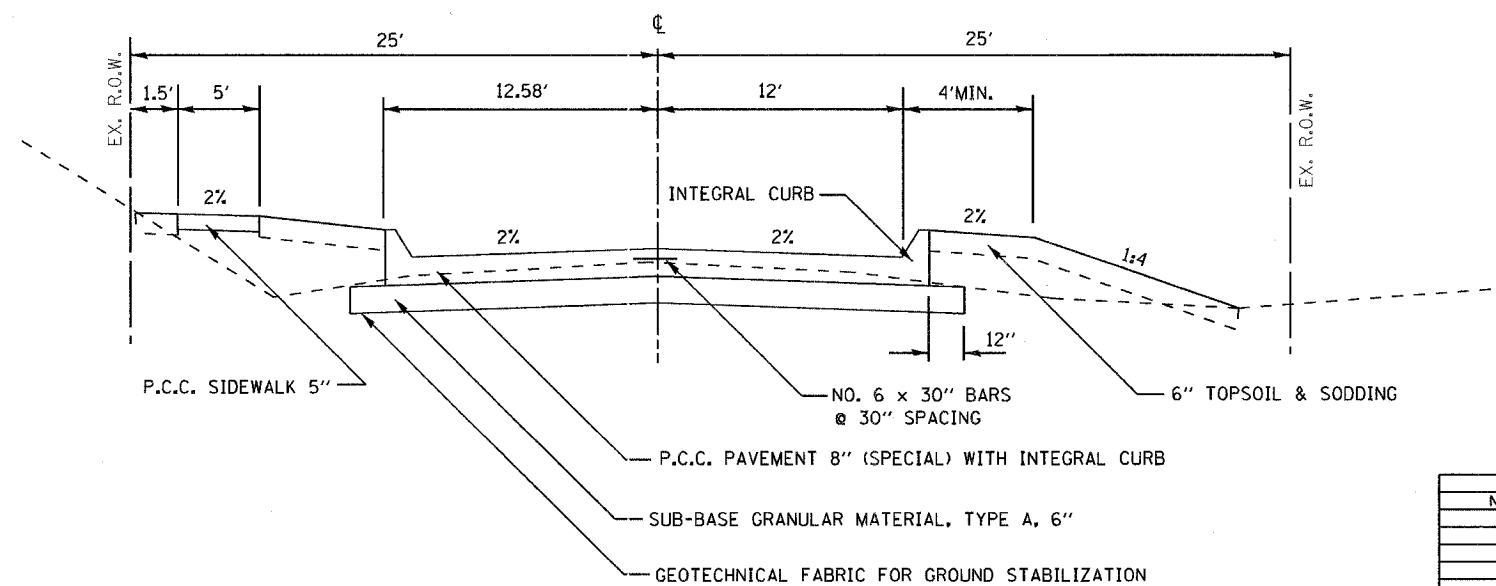
**11TH AVENUE**  
**STA. 0+57.42 - 1+07.60**



| MIXTURE USE(S):                         | SURFACE        |
|---|----------------|
| PG:                                     | PG 64-22       |
| DESIGN AIR Voids                        | 4.0 @ N50      |
| MIXTURE COMPOSITION (GRADATION MIXTURE) | IL 9.5 OR 12.5 |
| FRICTION AGGREGATE                      | C              |
| 20 YEAR ESAL                            | 0.0            |
| MIX UNIT WEIGHT                         | 112 LBS/SY/IN  |

**37TH STREET**  
**STA. 9+91.60 - 11+00.04**

NOTE: PIPE UNDERDRAIN, 4" SHALL BE INSTALLED FOR 10' EACH SIDE OF AND CONNECT INTO DOUBLE CATCH BASINS



| REVISIONS |      | ILLINOIS DEPARTMENT OF TRANSPORTATION |
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| NAME      | DATE |                                       |
|           |      | <b>PROPOSED TYPICAL SECTIONS</b>      |
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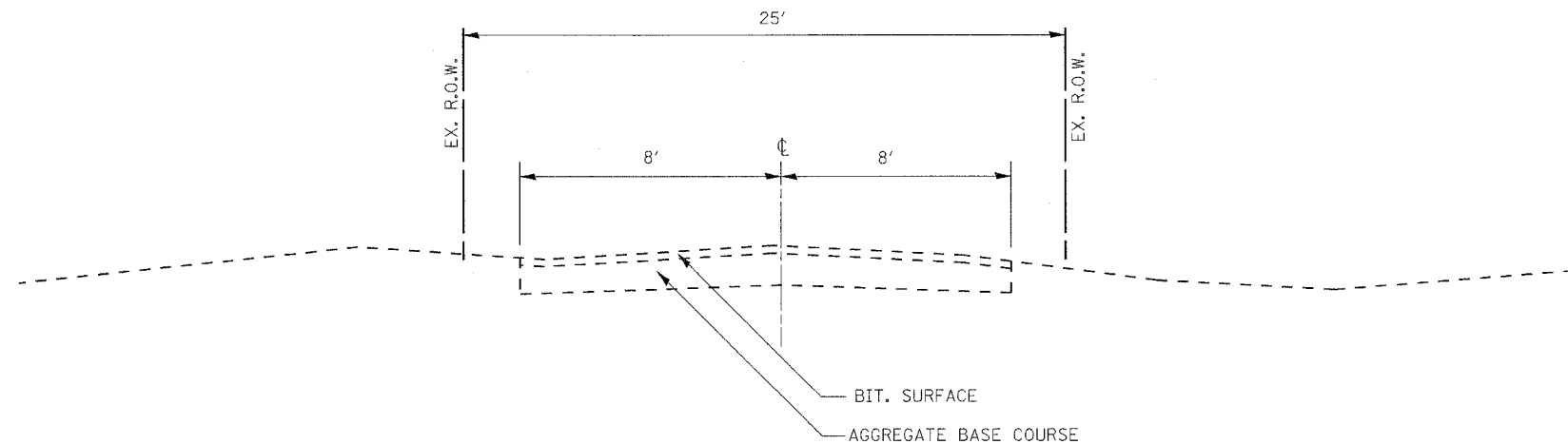
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| F.A. RTE.           | SECTION        | COUNTY                    | TOTAL SHEETS | SHEET NO. |
|                     | 05-00174-00-BT | ROCK ISLAND               | 112          | 13        |
| STA.                |                | TO STA.                   |              |           |
| FED. ROAD DIST. NO. |                | ILLINOIS FED. AID PROJECT |              |           |

# EXISTING TYPICAL SECTIONS

**11TH AVENUE**  
**STA. 0+57.42 - 6+23.92**  
**37TH STREET**  
**STA. 9+91.60 - 11+00.04**



| REVISIONS |      | ILLINOIS DEPARTMENT OF TRANSPORTATION |
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| NAME      | DATE |                                       |
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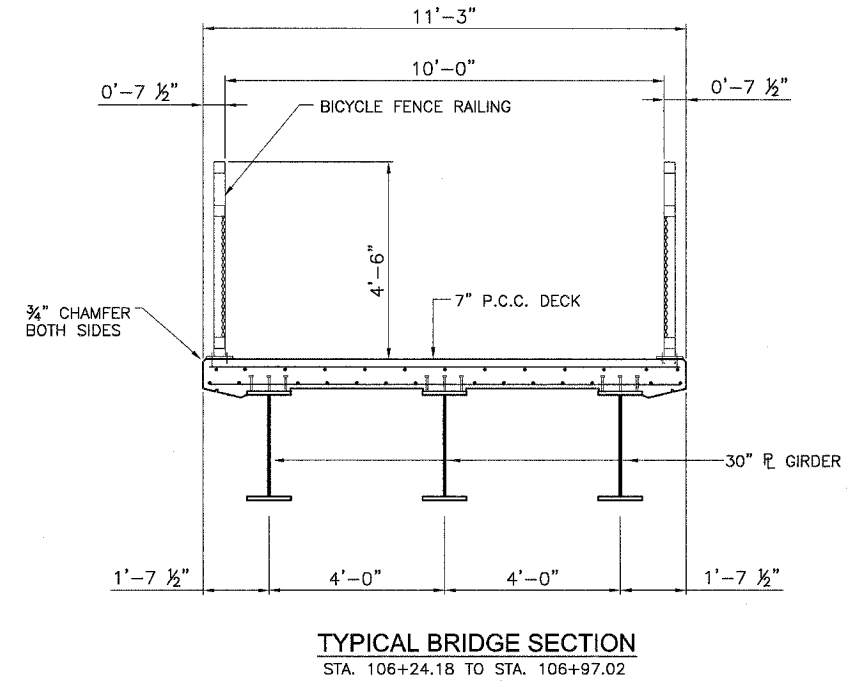
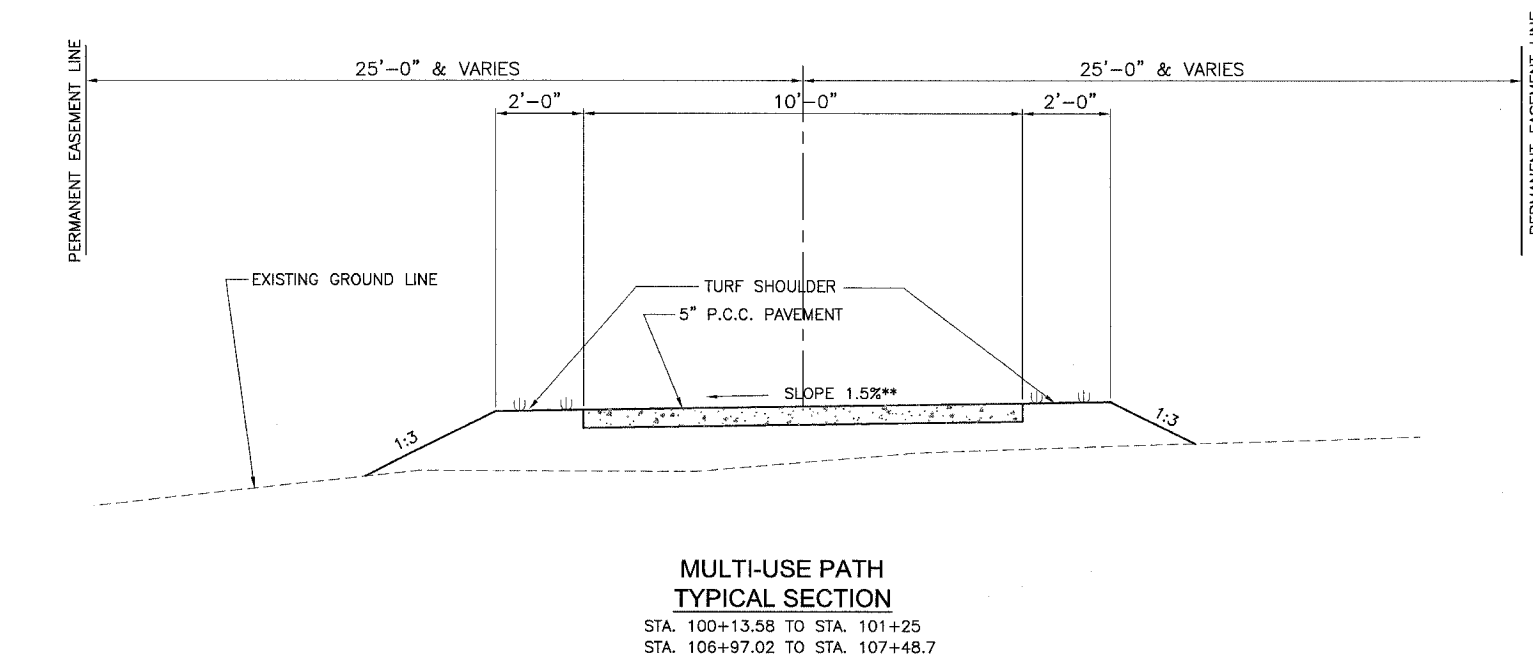
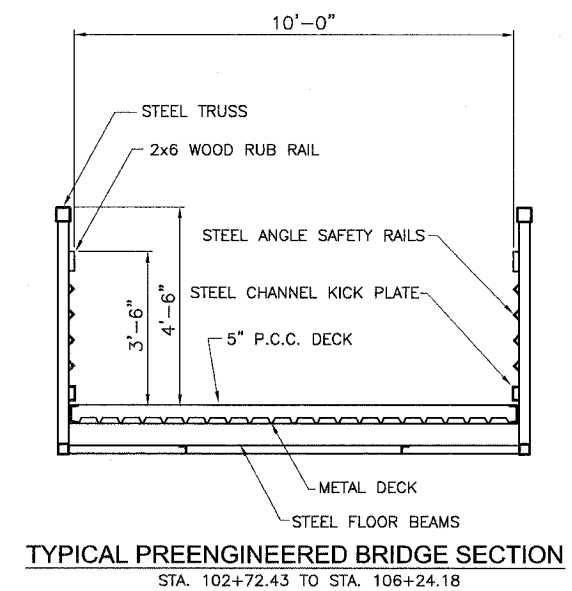
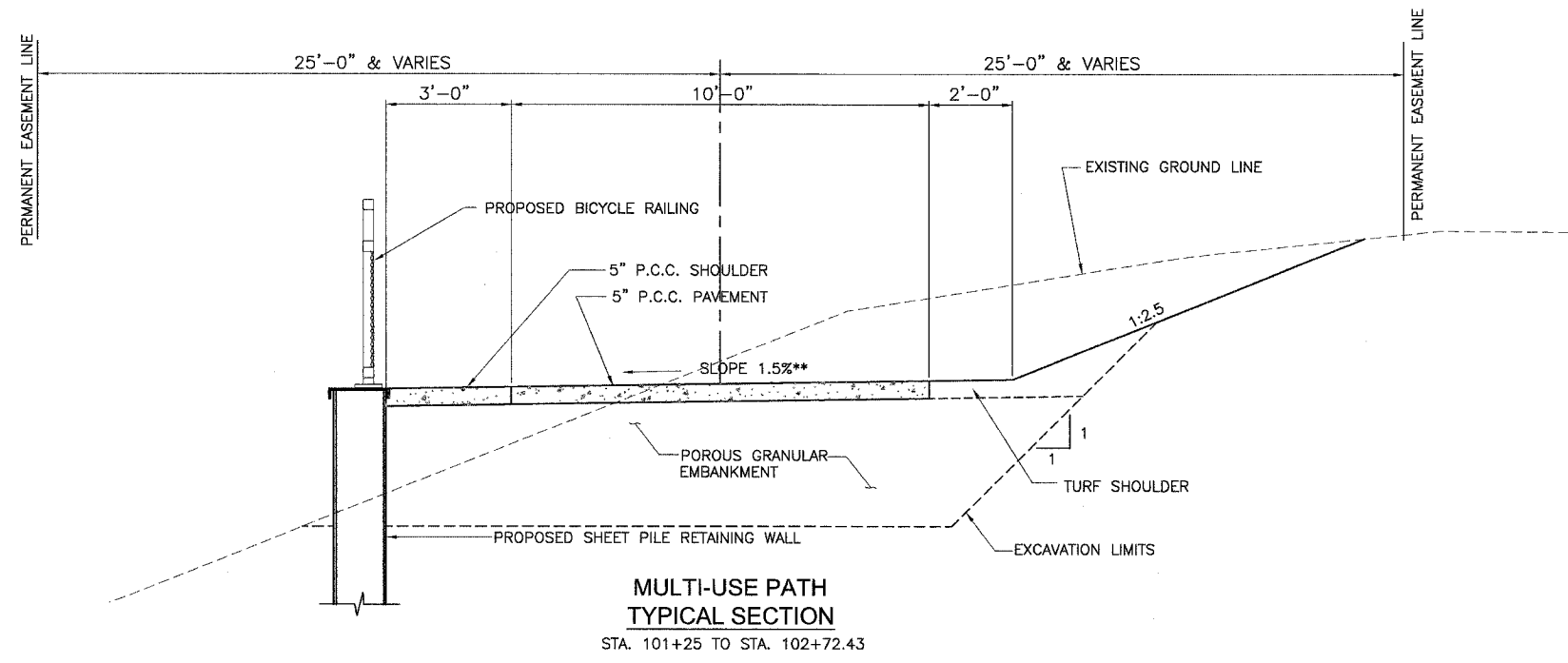
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 USER NAME \* \$USER\$

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

| ROUTE NO. | SECTION | COUNTY      | TOTAL SHEETS | SHEET NO. |
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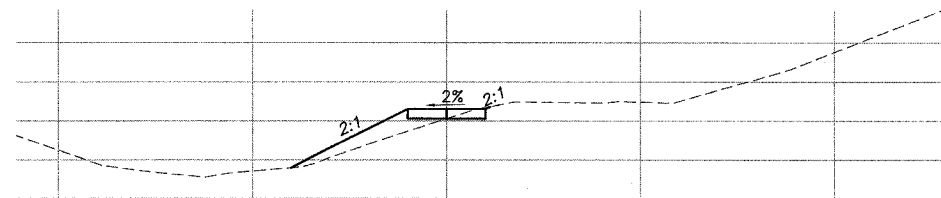
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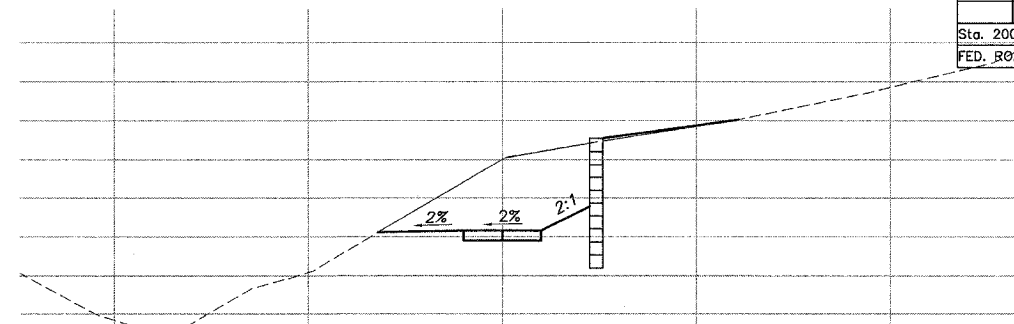
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| CHECKED  | JBF |
| DRAWN    | RAP |
| CHECKED  | JBF |

\*\*NOTE:  
CROSS SLOPE SHALL TRANSITION FROM 1.5% TO 0.0% BETWEEN  
STA. 102+62.43 TO 102+72.43 AND STA. 106+97.02 TO 107+07.02

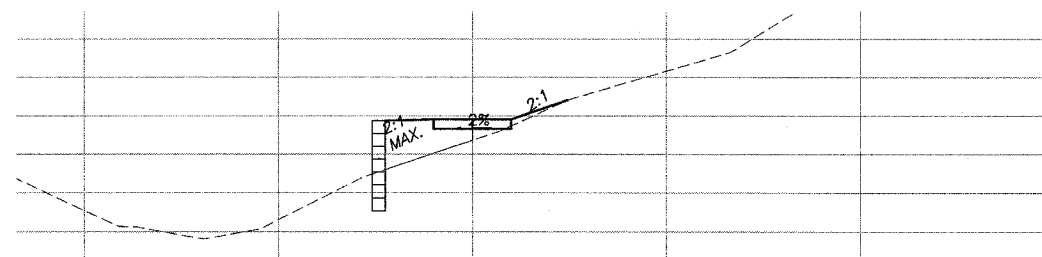
| Route No.             | SECTION | COUNTY         | TOTAL SHEETS | SHEET NO. |
|-----------------------|---------|----------------|--------------|-----------|
|                       |         | Rock Island    | 112          | 15        |
| Sta. 200+00           |         | To Sta. 205+00 |              |           |
| FED. ROAD DIST. NO. 7 |         | ILLINOIS       |              |           |



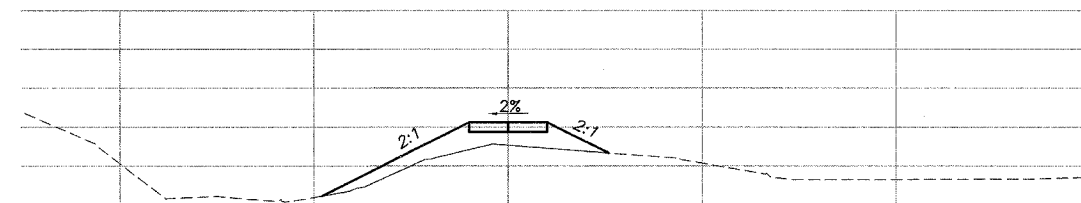
STA. 200+00 TO STA. 200+40



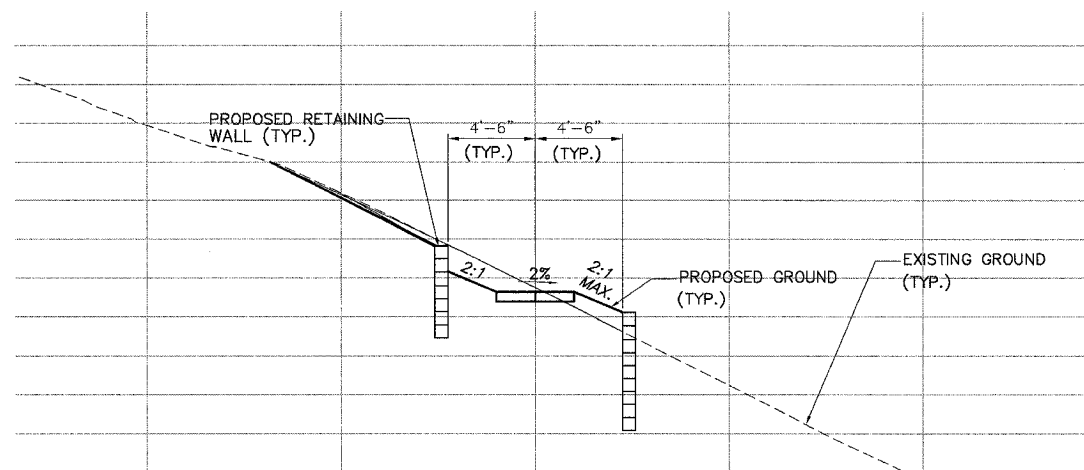
STA. 201+90 TO STA. 202+07



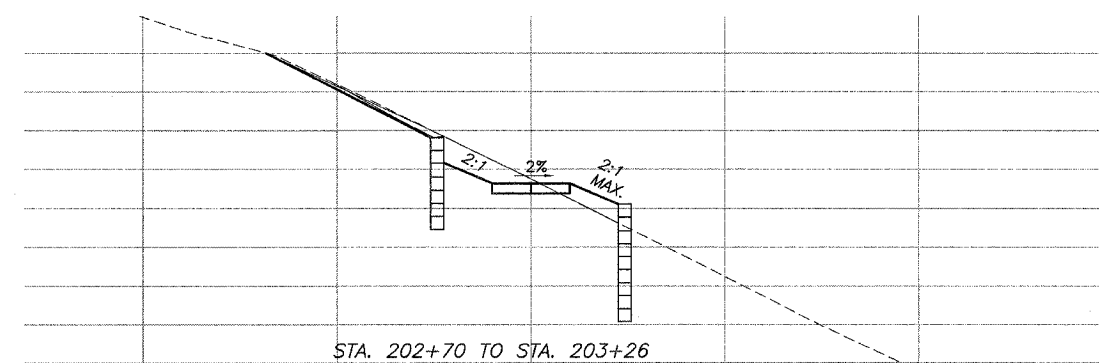
STA. 200+40 TO STA. 200+72



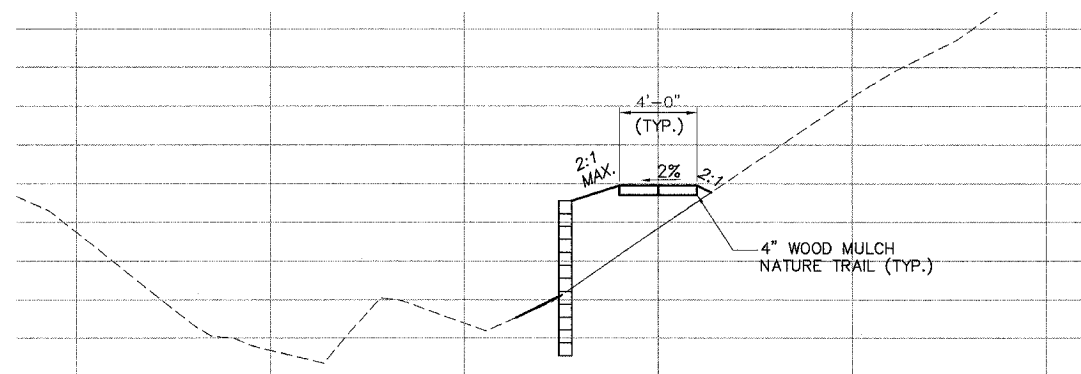
STA. 202+07 TO STA. 202+70



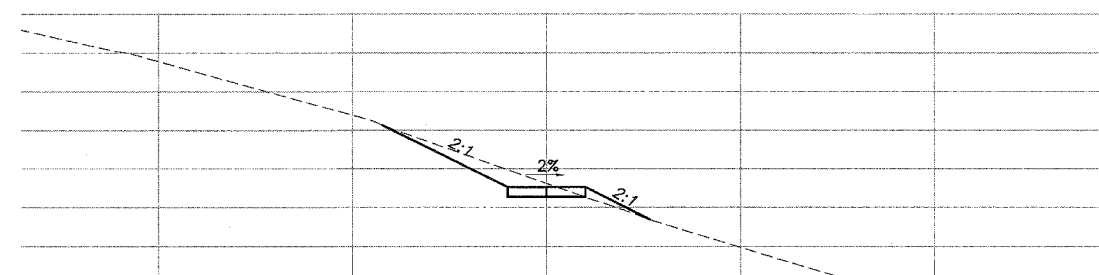
STA. 200+72 TO STA. 201+20



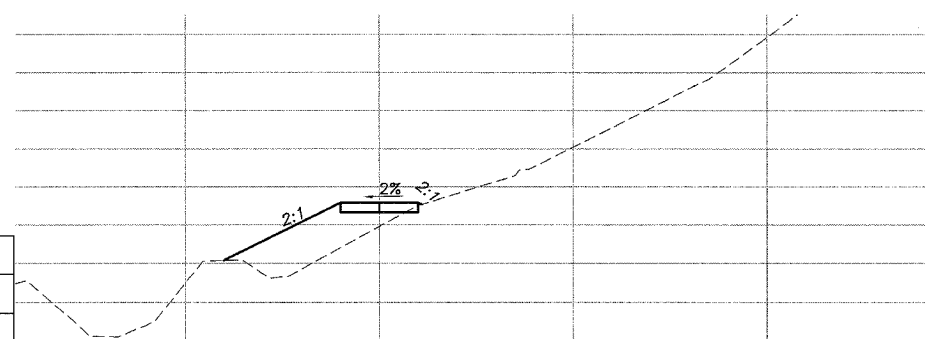
STA. 202+70 TO STA. 203+26



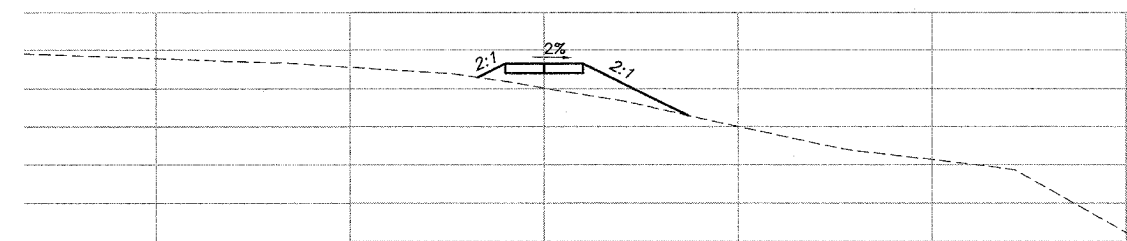
STA. 201+20 TO STA. 201+44



STA. 203+26 TO STA. 203+60



STA. 201+44 TO STA. 201+90

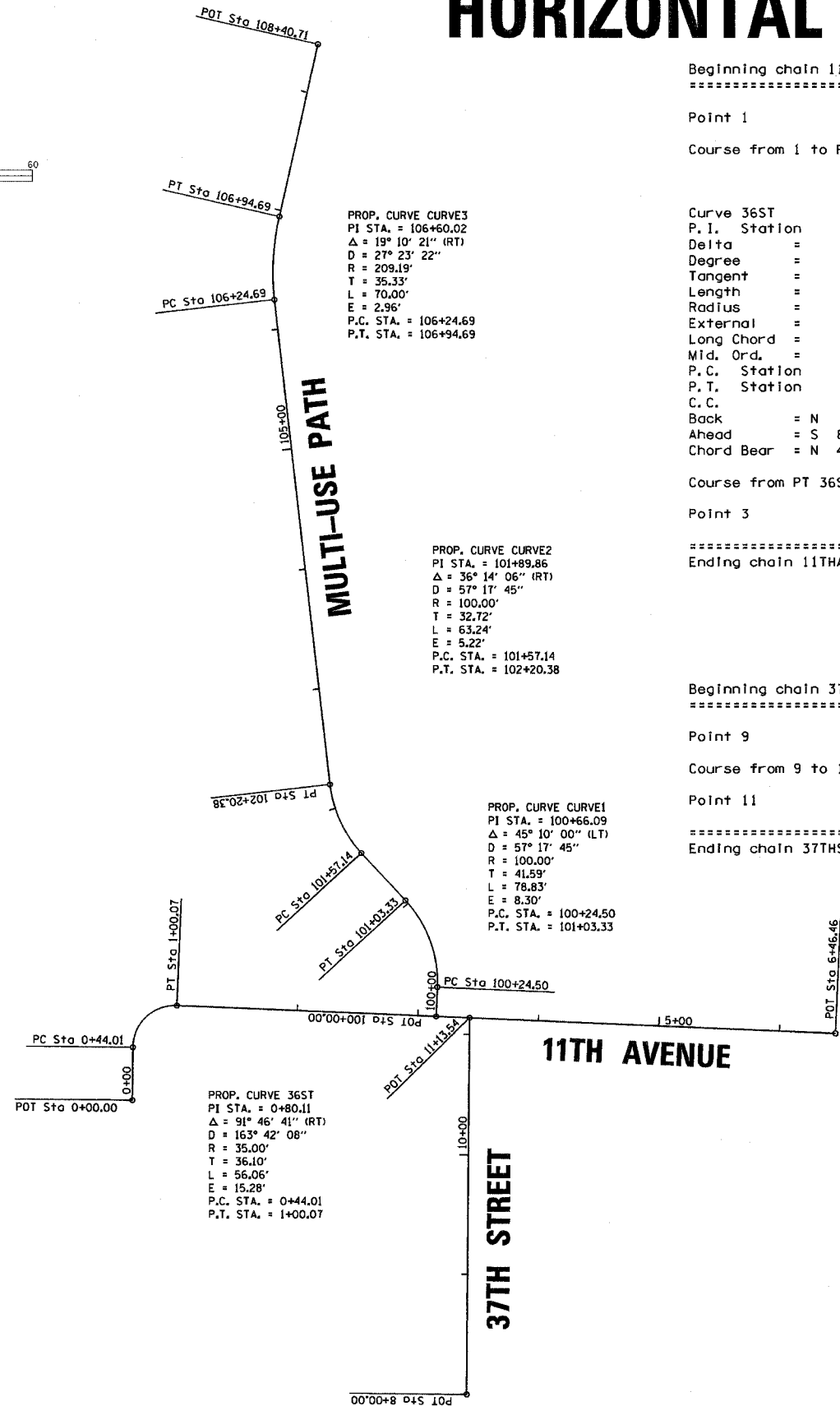
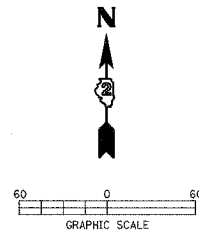


STA. 203+60 TO STA. 205+00

|          |     |
|----------|-----|
| DESIGNED | MHM |
| CHECKED  | JBF |
| DRAWN    | RAP |
| CHECKED  | JBF |

| F.A. RTE.           | SECTION     | COUNTY                    | TOTAL SHEETS | SHEET NO. |
|---------------------|-------------|---------------------------|--------------|-----------|
| 05-00174-00-BT      | ROCK ISLAND | 112                       | 16           |           |
| STA. TO STA.        |             |                           |              |           |
| FED. ROAD DIST. NO. |             | ILLINOIS FED. AID PROJECT |              |           |

# HORIZONTAL AND VERTICAL CONTROL



Beginning chain 11THAVE description

Point 1 N 1,760,642.25 E 2,191,650.79 Sta 0+00.00

Course from 1 to PC 36ST N 0° 38' 32.29" E Dist 44.01

Curve Data

Curve 36ST  
 P.I. Station 0+80.11 N 1,760,722.36 E 2,191,651.69  
 Delta = 91° 46' 41.45" (RT)  
 Degree = 163° 42' 08.02"  
 Tangent = 36.10  
 Length = 56.06  
 Radius = 35.00  
 External = 15.28  
 Long Chord = 50.26  
 Mid. Ord. = 10.64  
 P.C. Station 0+44.01 N 1,760,686.26 E 2,191,651.28  
 P.T. Station 1+00.07 N 1,760,720.83 E 2,191,687.76  
 C.C. N 1,760,685.86 E 2,191,686.28  
 Back = N 0° 38' 32.29" E  
 Ahead = S 87° 34' 46.26" E  
 Chord Bear = N 46° 31' 53.01" E

Course from PT 36ST to 3 S 87° 34' 46.26" E Dist 546.39

Point 3 N 1,760,697.76 E 2,192,233.66 Sta 6+46.46

Ending chain 11THAVE description

Beginning chain 37THST description

Point 9 N 1,760,397.05 E 2,191,927.63 Sta 8+00.00

Course from 9 to 11 N 0° 29' 32.16" E Dist 313.54

Point 11 N 1,760,710.58 E 2,191,930.32 Sta 11+13.54

Ending chain 37THST description

Beginning profile P11THAVE1 description

|            | STATION | ELEV   | GRADE | TOTAL L  | BACK L      | AHEAD L |
|------------|---------|--------|-------|----------|-------------|---------|
| VPI 1      | 0+57.42 | 698.27 |       |          |             |         |
| VPC        | 0+80.00 | 698.60 | 1.47  | K = 5.4  | SSD = 190.9 |         |
| High Point | 0+88.02 | 698.66 |       |          |             |         |
| VPI 2      | 0+90.00 | 698.75 |       | 20.00    | 10.00       | 10.00   |
| VPT        | 1+00.00 | 698.53 | -2.20 |          |             |         |
| VPC        | 1+20.00 | 698.09 | -2.20 | K = 18.2 | SSD = 231.4 |         |
| VPI 3      | 1+50.00 | 697.43 |       | 60.00    | 30.00       | 30.00   |
| VPT        | 1+80.00 | 695.78 | -5.50 |          |             |         |
| VPC        | 1+80.00 | 695.78 | -5.50 | K = 19.0 |             |         |
| VPI 4      | 2+80.00 | 690.28 |       | 200.00   | 100.00      | 100.00  |
| Low Point  | 2+84.76 | 692.90 |       |          |             |         |
| VPT        | 3+80.00 | 695.28 | 5.00  |          |             |         |
| VPC        | 3+80.00 | 695.28 | 5.00  | K = 25.5 | SSD = 190.8 |         |
| VPI 5      | 4+50.00 | 698.78 |       | 140.00   | 70.00       | 70.00   |
| High Point | 5+07.27 | 698.46 |       |          |             |         |
| VPT        | 5+20.00 | 698.43 | -0.50 |          |             |         |
| VPC        | 5+50.00 | 698.28 | -0.50 | K = 13.0 | SSD = 197.3 |         |
| VPI 6      | 5+75.00 | 698.15 |       | 50.00    | 25.00       | 25.00   |
| VPT        | 6+00.00 | 697.07 | -4.36 |          |             |         |
| VPC        | 6+00.00 | 697.07 | -4.36 | K = 3.7  |             |         |
| VPI 7      | 6+10.00 | 696.63 |       | 20.00    | 10.00       | 10.00   |
| Low Point  | 6+16.24 | 696.71 |       |          |             |         |
| VPT        | 6+20.00 | 696.73 | 1.01  |          |             |         |
| VPI 8      | 6+23.87 | 696.77 | 1.01  |          |             |         |
| VPI 9      | 6+33.50 | 696.89 | 1.25  |          |             |         |

Ending profile P11THAVE1 description

Beginning profile P37THST description

|           | STATION  | ELEV   | GRADE | TOTAL L | BACK L | AHEAD L |
|-----------|----------|--------|-------|---------|--------|---------|
| VPI 1     | 9+86.68  | 693.27 |       |         |        |         |
| VPI 2     | 9+99.50  | 692.53 | -5.78 |         |        |         |
| VPC       | 10+00.00 | 692.50 | -5.78 | K = 5.6 |        |         |
| VPI 3     | 10+25.00 | 691.06 |       | 50.00   | 25.00  | 25.00   |
| Low Point | 10+32.21 | 691.57 |       |         |        |         |
| VPT       | 10+50.00 | 691.85 | 3.19  |         |        |         |
| VPI 4     | 11+01.55 | 693.50 | 3.19  |         |        |         |

Ending profile P37THST description

PLOT DATE = #DATE#  
 FILE NAME = #FILE#  
 PLOT SCALE = #SCALE#  
 USER NAME = #USER#

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ILLINOIS DEPARTMENT OF TRANSPORTATION

## HORIZONTAL AND VERTICAL CONTROL

SCALE: VERT. \_\_\_\_\_  
 HORIZ. \_\_\_\_\_

DATE \_\_\_\_\_ DRAWN BY \_\_\_\_\_  
 CHECKED BY \_\_\_\_\_

|                     |                |                           |              |           |
|---------------------|----------------|---------------------------|--------------|-----------|
| F.A. DIST.          | SECTION        | COUNTY                    | TOTAL SHEETS | SHEET NO. |
|                     | 05-00174-00-B1 | ROCK ISLAND               | 112          | 17        |
| STA.                |                | TO STA.                   |              |           |
| FED. ROAD DIST. NO. |                | ILLINOIS FED. AID PROJECT |              |           |

# HORIZONTAL AND VERTICAL CONTROL

Beginning chain BIKEPATH description

Point 151 N 1,760,711.69 E 2,191,902.67 Sta 100+00.00

Course from 151 to 152 N 2° 25' 13.67" E Dist 24.50

Point 152 N 1,760,736.17 E 2,191,903.71 Sta 100+24.50

Curve Data

Curve CURVE1

P.I. Station 100+66.09 N 1,760,777.72 E 2,191,905.46  
 Delta = 45° 09' 59.91" (LT)  
 Degree = 57° 17' 44.81"  
 Tangent = 41.59  
 Length = 78.83  
 Radius = 100.00  
 External = 8.30  
 Long Chord = 76.81  
 Mid. Ord. = 7.67  
 P.C. Station 100+24.50 N 1,760,736.17 E 2,191,903.71  
 P.T. Station 101+03.33 N 1,760,808.27 E 2,191,877.23  
 C.C. N 1,760,740.39 E 2,191,803.80  
 Back = N 2° 25' 13.67" E  
 Ahead = N 42° 44' 46.24" W  
 Chord Bear = N 20° 09' 46.28" W

Point 153 N 1,760,808.27 E 2,191,877.23 Sta 101+03.33

Course from 153 to 154 N 42° 44' 46.24" W Dist 53.81

Point 154 N 1,760,847.78 E 2,191,840.71 Sta 101+57.14

Curve Data

Curve CURVE2

P.I. Station 101+89.86 N 1,760,871.81 E 2,191,818.50  
 Delta = 36° 14' 05.68" (RT)  
 Degree = 57° 17' 44.81"  
 Tangent = 32.72  
 Length = 63.24  
 Radius = 100.00  
 External = 5.22  
 Long Chord = 62.19  
 Mid. Ord. = 4.96  
 P.C. Station 101+57.14 N 1,760,847.78 E 2,191,840.71  
 P.T. Station 102+20.38 N 1,760,904.32 E 2,191,814.79  
 C.C. N 1,760,915.66 E 2,191,914.15  
 Back = N 42° 44' 46.24" W  
 Ahead = N 6° 30' 40.56" W  
 Chord Bear = N 24° 37' 43.40" W

Point 155 N 1,760,904.32 E 2,191,814.79 Sta 102+20.38

Beginning chain BIKEPATH description (CONTINUED)

Course from 155 to 156 N 6° 30' 40.55" W Dist 404.31

Point 156 N 1,761,306.02 E 2,191,768.94 Sta 106+24.69

Curve Data

Curve CURVE3

P.I. Station 106+60.02 N 1,761,341.14 E 2,191,765.14  
 Delta = 19° 10' 21.17" (RT)  
 Degree = 27° 23' 21.66"  
 Tangent = 35.33  
 Length = 70.00  
 Radius = 209.19  
 External = 2.96  
 Long Chord = 69.67  
 Mid. Ord. = 2.92  
 P.C. Station 106+24.69 N 1,761,306.02 E 2,191,768.94  
 P.T. Station 106+94.69 N 1,761,375.57 E 2,191,773.08  
 C.C. N 1,761,328.55 E 2,191,976.92  
 Back = N 6° 10' 53.99" W  
 Ahead = N 12° 59' 27.18" E  
 Chord Bear = N 3° 24' 16.60" E

Point 157 N 1,761,375.57 E 2,191,773.08 Sta 106+94.69

Course from 157 to 158 N 12° 38' 33.43" E Dist 146.01

Point 158 N 1,761,518.05 E 2,191,805.04 Sta 108+40.71

Ending chain BIKEPATH description

## BENCHMARKS

| BENCHMARK    | DESCRIPTION  | ELEVATION |
|--------------|--|-----------|
| BM 38 - 11   | NORTH BOLT ON FIRE HYDRANT AT SOUTHWEST CORNER OF 38th STREET & 11th AVENUE  | 700.11    |
| BM 38 - TC   | NORTH BOLT ON HYDRANT EAST SIDE OF 38th STREET NEXT TO LINCOLN PARK TENNIS COURTS  | 695.32    |
| BM 38 - ANDR | NORTH BOLT ON HYDRANT WEST SIDE OF 38th STREET NORTH OF ANDREEN RESIDENCE HALL ENTRANCE  | 685.03    |
| TBM - 1      | P.K. NAIL IN POWER POLE LOCATED AT THE NORTHWEST CORNER OF 38th STREET & 11th AVENUE   | 699.00    |
| TBM - 2      | P.K. NAIL IN POWER POLE WITH LIGHT LOCATED 1 POLE WEST OF TBM - 2  | 699.00    |
| TBM - 3      | CHISELED SQUARE ON BACK OF CURB LOCATED AT THE FAR WEST CORNER OF THE PARKING LOT JUST NORTH OF THE WEST END OF SWANSON HALL           | 691.41    |
| TBM - 4      | P.K. NAIL IN SOUTH SIDE OF 40" DIAMETER TREE 60± NORTH OF SAND VOLLEYBALL COURT NORTH OF AUGUSTANA UPPER TENNIS COURTS                 | 700.37    |
| TBM - 5      | CHISELED SQUARE ON SOUTH SIDE OF CONCRETE BASE OF LIGHT POLE ON NORTH SIDE OF SIDEWALK AT NORTHWEST CORNER OF WESTERLIN RESIDENCE HALL | 702.78    |
| TBM - 7      | CHISELED SQUARE ON TOP OF CURB 50± SOUTHEAST OF HORIZONTAL CONTROL POINT #3 LOCATED JUST SOUTHWEST OF RYDEN HOUSE                      | 693.40    |
| TBM - 6      | CHISELED SQUARE ON TOP OF CURB 20± NORTHWEST OF HORIZONTAL CONTROL POINT #3 LOCATED JUST SOUTHWEST OF RYDEN HOUSE                      | 694.38    |

| REVISIONS |      |
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| NAME      | DATE |
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ILLINOIS DEPARTMENT OF TRANSPORTATION

### HORIZONTAL AND VERTICAL CONTROL

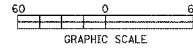
SCALE: VERT. \_\_\_\_\_  
 HORIZ. \_\_\_\_\_

DATE \_\_\_\_\_ DRAWN BY \_\_\_\_\_  
 CHECKED BY \_\_\_\_\_

PLOT DATE = #DATE#  
 FILE NAME = #FILE#  
 PLOT SCALE = #SCALE#  
 USER NAME = #USER#

| F.A. RTE.           | SECTION     | COUNTY                    | TOTAL SHEETS | SHEET NO. |
|---------------------|-------------|---------------------------|--------------|-----------|
| 05-00174-00-BT      | ROCK ISLAND | 112                       | 18           |           |
| STA. TO STA.        |             |                           |              |           |
| FED. ROAD DIST. NO. |             | ILLINOIS FED. AID PROJECT |              |           |

# HORIZONTAL AND VERTICAL CONTROL



Beginning chain TRAIL description  
 Point 160 N 1,760,727.76 E 2,190,960.49 Sta 200+00.00  
 Course from 160 to 161 N 64° 00' 54.93" W Dist 38.73  
 Point 161 N 1,760,744.73 E 2,190,925.68 Sta 200+38.73

chain TRAIL description (CONTINUED)  
 Point 166 N 1,760,874.58 E 2,190,735.65 Sta 202+85.33  
 Course from 166 to 167 N 60° 19' 01.02" W Dist 37.45  
 Point 167 N 1,760,893.13 E 2,190,703.11 Sta 203+22.78

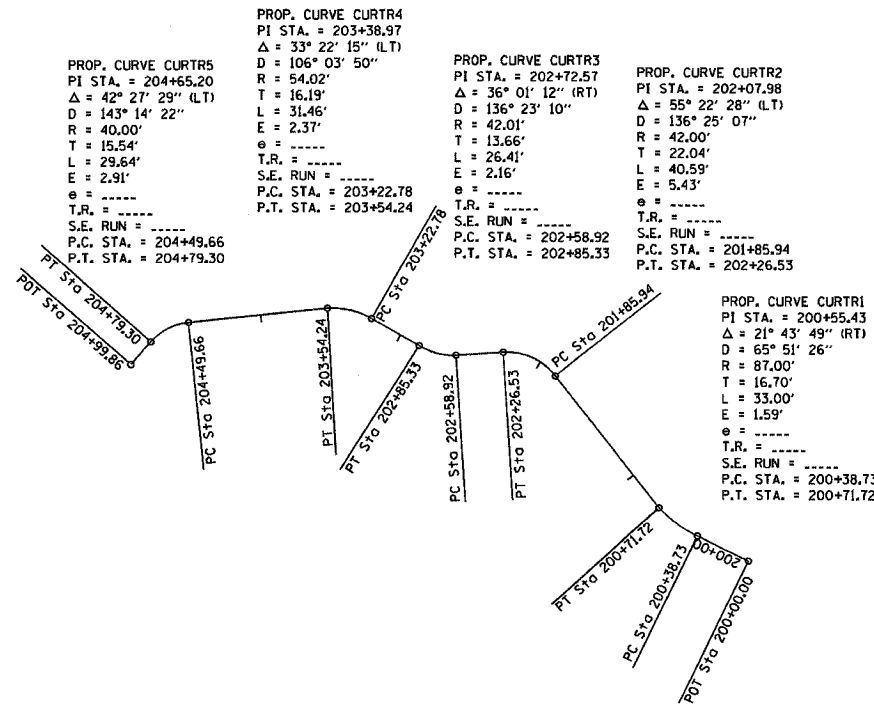
Curve Data

Curve CURTR1  
 P.I. Station 200+55.43 N 1,760,752.04 E 2,190,910.67  
 Delta = 21° 43' 48.91" (RT)  
 Degree = 65° 51' 25.98"  
 Tangent = 16.70  
 Length = 33.00  
 Radius = 87.00  
 External = 1.59  
 Long Chord = 32.80  
 Mid. Ord. = 1.56  
 P.C. Station 200+38.73 N 1,760,744.73 E 2,190,925.68  
 P.T. Station 200+71.72 N 1,760,764.40 E 2,190,899.44  
 C.C. N 1,760,822.93 E 2,190,963.80  
 Back = N 64° 00' 55.89" W  
 Ahead = N 42° 17' 06.98" W  
 Chord Bear = N 53° 09' 01.43" W

Curve Data

Curve CURTR4  
 P.I. Station 203+38.97 N 1,760,901.24 E 2,190,689.10  
 Delta = 33° 22' 14.53" (LT)  
 Degree = 106° 03' 50.44"  
 Tangent = 16.19  
 Length = 31.46  
 Radius = 54.02  
 External = 2.37  
 Long Chord = 31.02  
 Mid. Ord. = 2.27  
 P.C. Station 203+22.78 N 1,760,893.13 E 2,190,703.11  
 P.T. Station 203+54.24 N 1,760,900.30 E 2,190,672.93  
 C.C. N 1,760,846.37 E 2,190,676.05  
 Back = N 59° 56' 12.17" W  
 Ahead = S 86° 41' 33.29" W  
 Chord Bear = N 76° 37' 19.44" W

## NATURE TRAIL



Point 162 N 1,760,764.40 E 2,190,899.44 Sta 200+71.72  
 Course from 162 to 163 N 38° 14' 45.91" W Dist 114.21  
 Point 163 N 1,760,854.09 E 2,190,828.73 Sta 201+85.94

Curve Data

Curve CURTR2  
 P.I. Station 202+07.98 N 1,760,871.40 E 2,190,815.09  
 Delta = 55° 22' 27.53" (LT)  
 Degree = 136° 25' 06.68"  
 Tangent = 22.04  
 Length = 40.59  
 Radius = 42.00  
 External = 5.43  
 Long Chord = 39.03  
 Mid. Ord. = 4.81  
 P.C. Station 201+85.94 N 1,760,854.09 E 2,190,828.73  
 P.T. Station 202+26.53 N 1,760,870.01 E 2,190,793.10  
 C.C. N 1,760,828.09 E 2,190,795.75  
 Back = N 38° 14' 45.91" W  
 Ahead = S 86° 22' 46.56" W  
 Chord Bear = N 65° 55' 59.67" W

Curve Data

Curve CURTR5  
 P.I. Station 204+65.20 N 1,760,888.84 E 2,190,562.57  
 Delta = 42° 27' 29.27" (LT)  
 Degree = 143° 14' 22.02"  
 Tangent = 15.54  
 Length = 29.64  
 Radius = 40.00  
 External = 2.91  
 Long Chord = 28.97  
 Mid. Ord. = 2.71  
 P.C. Station 204+49.66 N 1,760,890.45 E 2,190,578.03  
 P.T. Station 204+79.30 N 1,760,877.23 E 2,190,552.26  
 C.C. N 1,760,850.66 E 2,190,582.16  
 Back = S 84° 04' 19.47" W  
 Ahead = S 41° 36' 50.20" W  
 Chord Bear = S 62° 50' 34.84" W

Point 164 N 1,760,870.01 E 2,190,793.10 Sta 202+26.53  
 Course from 164 to 165 S 86° 22' 46.56" W Dist 32.39  
 Point 165 N 1,760,867.97 E 2,190,760.77 Sta 202+58.92

Curve Data

Curve CURTR3  
 P.I. Station 202+72.57 N 1,760,867.19 E 2,190,747.14  
 Delta = 36° 01' 11.68" (RT)  
 Degree = 136° 23' 09.78"  
 Tangent = 13.66  
 Length = 26.41  
 Radius = 42.01  
 External = 2.16  
 Long Chord = 25.98  
 Mid. Ord. = 2.06  
 P.C. Station 202+58.92 N 1,760,867.97 E 2,190,760.77  
 P.T. Station 202+85.33 N 1,760,874.58 E 2,190,735.65  
 C.C. N 1,760,909.91 E 2,190,758.38  
 Back = S 86° 44' 12.93" W  
 Ahead = N 57° 14' 35.39" W  
 Chord Bear = N 75° 15' 11.23" W

Point 170 N 1,760,877.23 E 2,190,552.26 Sta 204+79.30  
 Course from 170 to 171 S 41° 07' 58.04" W Dist 20.56  
 Point 171 N 1,760,861.74 E 2,190,538.73 Sta 204+99.86

Ending chain TRAIL description

DATE: 11/11/11  
 FILE: 111111.DWG  
 PLOT SCALE: 1"=100'  
 USER: JSM

| REVISIONS |      | ILLINOIS DEPARTMENT OF TRANSPORTATION  |
|-----------|------|--|
| NAME      | DATE |  |
|           |      | <b>HORIZONTAL AND VERTICAL CONTROL</b> |
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SCALE: VERT. 1"=100'  
 HORIZ. 1"=100'  
 DRAWN BY: \_\_\_\_\_  
 CHECKED BY: \_\_\_\_\_





| F.A. RTE.    | SECTION        | COUNTY  | TOTAL SHEETS | SHEET NO. |
|--------------|----------------|---|--------------|-----------|
|              | 05-00174-00-BT | ROCK ISLAND                                   | 112          | 20        |
| STA. TO STA. |                | FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT |              |           |

# SCHEDULE OF QUANTITIES

|  |       |   |       |   |       |
|--|-------|---|-------|---|-------|
| 25200100 SODDING                           | S. Y. | 28000500 INLET AND PIPE PROTECTION                          | EACH  | 42400200 PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH | S. F. |
| 11TH AVENUE                                |       | 11TH AVENUE   |       | 11TH AVENUE                                       |       |
| RT. STA. 0+55-3+20                         | 151.8 | LT. & RT. STA. 2.87   | 2     | LT. STA. 1+01.55 TO 3+10.18                       | 821   |
| LT. STA. 0+55-3+10                         | 160.8 | RT. STA. 3.87   | 1     | LT. STA. 3+10.18 TO 3+20.18                       | 183   |
| RT. STA. 3+67-6+19                         | 101.7 |   |       | LT. STA. 3+20.18 TO 5+87.33                       | 1,015 |
| LT. STA. 3+20-6+04                         | 423.7 | 37TH STREET   |       | LT. STA. 5+21                                     | 28    |
|  |       | RT. STA. 9+94   | 1     | LT. STA. 5+55.5                                   | 32    |
| 37TH STREET                                |       | LT. & RT. STA. 10+32  | 2     | LT. STA. 5+97.98 TO 6+20.28                       | 205   |
| RT. STA. 9+89-10+92                        | 62.2  |   |       | RT. STA. 1+25.25 TO 3+24.52                       | 754   |
| LT. STA. 9+89-10+90                        | 53.3  | NATURE TRAIL  |       | RT. STA. 3+67.58 TO 6+23.13                       | 753   |
|  |       | RT. STA. 200+10   | 1     |   |       |
| MULTI-USE PATH                             |       | LT. STA. 202+30   | 1     | MULTI-USE PATH                                    |       |
| RT. STA. 100+25-103+00                     | 303.0 |   |       | STA. 100+30.06 TO 102+72.43                       | 2,424 |
| LT. STA. 100+25-103+00                     | 77.5  | 31100100 SUB-BASE GRANULAR MATERIAL, TYPE A                 | TON   | STA. 106+97.02 TO 107+48.34                       | 513   |
| RT. STA. 106+75-107+71                     | 60.0  |   |       | STA. 107+48.34 TO 107+98                          | 1,004 |
| LT. STA. 106+75-107+90                     | 74.0  | 11TH AVENUE   |       | 104' RT. STA. 107+54 TO 169' RT. STA. 107+33      | 397   |
|  |       | STA. 1+07.60 TO 6+23.92                                     | 587   | 162' RT. STA. 107+63 TO 246' RT. STA. 107+52      | 1,071 |
| TOTAL 1,468.0                              |       | 37TH STREET   |       |   | 1,004 |
|  |       | STA. 9+91.60 TO 11+00.04                                    | 130   | DORMITORY STAIRS                                  |       |
| 25200200 SUPPLEMENTAL WATERING             | UNIT  |   |       | STA. 0+11.42 TO 0+22+11                           | 79    |
| 11TH AVENUE                                |       | 35100100 AGGREGATE BASE COURSE, TYPE A                      | TON   | STA. 0+31.31 TO 0+53.93                           | 144   |
| LT. & RT. STA. 0+55-6+19                   | 17.6  |   |       | 37TH STREET                                       |       |
|  |       | 11TH AVENUE   |       | LT. STA. 9+63.07 TO 10+34.64                      | 358   |
| 37TH STREET                                |       | STA. 0+57.42 TO 1+07.60                                     | 79    | LT. STA. 10+61.33 TO 10+90.40                     | 146   |
| LT. & RT. STA. 9+89-10+92                  | 2.4   |   |       | TOTAL 10,931                                      |       |
|  |       | 40200800 AGGREGATE SURFACE COURSE, TYPE B                   | TON   |   |       |
| MULTI-USE PATH                             |       | FOR TEMPORARY ACCESS AS NEEDED                              | 50    | 42400800 DETECTABLE WARNINGS                      | S. F. |
| LT. & RT. STA. 100+25-107+90               | 10.8  |   |       | 11TH AVENUE                                       |       |
|  |       |   |       | LT. STA. 3+15.18                                  | 20    |
| TOTAL 30.8                                 |       | 40600100 BITUMINOUS MATERIALS (PRIME COAT)                  | GAL   | RT. STA. 3+18 (2 CURB RAMPS)                      | 16    |
|  |       |   |       | RT. STA. 3+74                                     | 8     |
| 28000250 TEMPORARY EROSION CONTROL SEEDING | POUND | 11TH AVENUE   |       | LT. STA. 6+10                                     | 16    |
| 11TH AVENUE                                |       | STA. 0+57.42 TO 1+07.60                                     | 79    | RT. STA. 6+10                                     | 16    |
| LT. & RT. STA. 0+55-6+19                   | 76    |   |       | TOTAL 60  |       |
|  |       | 40603310 HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50       | TON   |   |       |
| 37TH STREET                                |       |   |       | 44000100 PAVEMENT REMOVAL                         | S. Y. |
| LT. & RT. STA. 9+89-10+92                  | 8     | 11TH AVENUE   |       | 11TH AVENUE                                       |       |
|  |       | STA. 0+57.42 TO 1+07.60                                     | 39.4  | STA. 6+02 TO 6+24                                 | 49    |
| MULTI-USE PATH                             |       |   |       | 37TH STREET                                       |       |
| LT. & RT. STA. 100+25-103+00               | 32    | 42300300 PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 7 INCH | S. Y. | STA. 9+87 TO 9+99                                 | 20    |
| LT. & RT. STA. 106+75-107+90               | 16    |   |       | TOTAL 69  |       |
| LT. & RT. STA. 103+0-106+75                | 184   | 11TH AVENUE   |       | 44000200 DRIVEWAY PAVEMENT REMOVAL                | S. Y. |
|  |       | STA. 0+57.42 TO 1+07.60                                     | 17.6  | 37TH STREET                                       |       |
| TOTAL 316                                  |       |   |       | RT. STA. 10+31                                    | 22    |
|  |       | 40603310 HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50       | TON   | TOTAL 22  |       |
| 28000300 TEMPORARY DITCH CHECKS            | EACH  |   |       | 44000500 COMBINATION CURB AND GUTTER REMOVAL      | FT.   |
| NATURE TRAIL                               |       | 11TH AVENUE   |       | 11TH AVENUE                                       |       |
| LT. STA. 200+50                            | 1     | LT. STA. 0+95.94  | 49    | LT. STA. 6+02 TO 6+24                             | 61    |
| LT. STA. 201+00                            | 1     | RT. STA. 1+12.99  | 35    | RT. STA. 6+02 TO 6+24                             | 39    |
| LT. STA. 201+50                            | 1     | RT. STA. 1+95.24  | 44    |   |       |
| LT. STA. 202+00                            | 1     | RT. STA. 4+93.32  | 21    | 37TH STREET                                       |       |
|  |       | RT. STA. 5+19.94  | 30    | LT. STA. 9+91.6 TO 10+03.6                        | 12    |
| TOTAL 4                                    |       | RT. STA. 5+75.65  | 44    | RT. STA. 9+91.84 TO 9+99.4                        | 8     |
|  |       | 37TH STREET   |       | TOTAL 120   |       |
| 28000400 PERIMETER EROSION BARRIER         | FT.   |   |       |   |       |
| 11TH AVENUE                                |       | 11TH AVENUE   |       |   |       |
| LT. STA. 1+00-3+00                         | 200   | LT. STA. 1+12.99  | 49    |   |       |
| LT. STA. 3+25-5+30                         | 205   | RT. STA. 1+95.24  | 35    |   |       |
|  |       | RT. STA. 4+93.32  | 44    |   |       |
| MULTI-USE PATH                             |       | RT. STA. 5+19.94  | 21    |   |       |
| LT. STA. 100+25-103+00                     | 275   | RT. STA. 5+75.65  | 30    |   |       |
| RT. STA. 100+25-101+50                     | 125   |   |       |   |       |
| RT. STA. 102+65-103+00                     | 45    | 37TH STREET   |       |   |       |
| LT. STA. 105+00-107+90                     | 350   | RT. STA. 10+31.00   | 56    |   |       |
| RT. STA. 106+80-106+92                     | 12    | LT. STA. 10+48.08   | 42    |   |       |
|  |       |   |       |   |       |
| NATURE TRAIL                               |       |   |       |   |       |
| LT. STA. 200+00-200+72                     | 72    |   |       |   |       |
| RT. STA. 200+72-201+44                     | 72    |   |       |   |       |
| LT. STA. 201+20-202+70                     | 150   |   |       |   |       |
| RT. STA. 202+07-205+00                     | 293   |   |       |   |       |
| LT. STA. 203+60-205+00                     | 140   |   |       |   |       |
| TOTAL 1,939                                |       |   |       |   |       |

PLT DATE: 04/20/05  
 FILE NAME: 050174-00-BT  
 PLOT SCALE: 1/8"=1'-0"  
 USER NAME: RUSSEN

| REVISIONS |      | ILLINOIS DEPARTMENT OF TRANSPORTATION |
|-----------|------|---------------------------------------|
| NAME      | DATE |                                       |
|           |      | SCHEDULE OF QUANTITIES                |
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 CHECKED BY \_\_\_\_\_

| F.A. RTE.           | SECTION        | COUNTY                    | TOTAL SHEETS | SHEET NO. |
|---------------------|----------------|---------------------------|--------------|-----------|
|                     | 05-00174-00-BT | ROCK ISLAND               | 112          | 21        |
| STA.                |                | TO STA.                   |              |           |
| FED. ROAD DIST. NO. |                | ILLINOIS FED. AID PROJECT |              |           |

# SCHEDULE OF QUANTITIES

|  |       |  |       |  |        |
|--|-------|--|-------|--|--------|
| 44000600 SIDEWALK REMOVAL  | S.F.  | 55100700 STORM SEWER REMOVAL 15"                             | FT.   | 60218400 MANHOLES, TYPE A 4'-DIAMETER, TYPE 1 FRAME, CLOSED LID  | EACH   |
| 11TH STREET  |       | 37TH STREET  |       | MULTI-USE PATH   |        |
| RT. STA. 1+74  | 22    | 21' RT. STA. 9+93 TO 12' RT. STA. 10+54                      | 68    | 19' LT. STA. 107+10  | 1      |
| RT. STA. 4+09  | 19    |  | TOTAL |  | TOTAL  |
| LT./RT. STA. 5+21  | 115   |  | 68    |  | 1      |
| LT./RT. STA. 5+55  | 126   | 55101100 STORM SEWER REMOVAL 21"                             | FT.   | 60223800 MANHOLES, TYPE A, 6'-DIAMETER, TYPE 1 FRAME, CLOSED LID | EACH   |
| LT. STA. 6+00 TO 6+20  | 342   | 12' RT. STA. 10+54 (37TH ST) TO 37' LT. STA. 2+75 (11TH AVE) | 118   | 11TH AVENUE  |        |
| RT. STA. 6+21  | 60    |  | TOTAL | 22.7' LT. STA. 2+93  | 1      |
| MULTI-USE PATH   |       |  | 118   |  | TOTAL  |
| LT./RT. STA. 105+25 TO 107+98.17   | 1,868 | 56100500 WATER MAIN 4"                                       | FT.   | 60240301 INLET TYPE B, TYPE B GRATE                              | EACH   |
| 104' RT. STA. 107+54 TO 169' RT. STA. 107+33                                   | 397   | 11TH AVENUE  |       | MULTI-USE PATH   |        |
| 162' RT. STA. 107+63 TO 246' RT. STA. 107+52                                   | 1,071 | RT. STA. 5+42.5  | 6     | 18' RT. STA. 107+25  | 1      |
| TOTAL  | 4,020 |  | TOTAL |  | TOTAL  |
|  |       |  | 6     |  | 1      |
| 44213200 SAW CUTS  | FT.   | 56100600 WATER MAIN 6"                                       | FT.   | 60500060 REMOVING INLETS   | EACH   |
| 11TH AVENUE  |       | 11TH AVENUE  |       | 37TH STREET  |        |
| LT./RT. STA. 6+23.92   | 63    | RT. STA. 6+08 TO 6+18  | 10    | 12' LT. STA. 10+54   | 1      |
| 37TH STREET  |       | RT. STA. 5+40  | 6     |  | TOTAL  |
| LT./RT. STA. 9+87 TO 9+91.8  | 35    | 37TH STREET  | 6     |  | 1      |
|  |       | LT./RT. STA. 9+98  | 6     |  |        |
| TOTAL  | 98    |  | TOTAL |  |        |
|  |       |  | 22    | 60600105 CONCRETE CURB   | FOOT   |
| 50901760 PIPE HANDRAIL   | FOOT  | 56100700 WATER MAIN 8"                                       | FT.   | DORMITORY STAIRS   |        |
| DORMITORY STAIRS   |       | 11TH AVENUE  |       | LT. STA. 0+31.31 TO 0+43.08                                      | 14.1   |
| LT. STA. 0+22.11 TO 0+31.31  | 11.4  | STA. 0+86 TO 4+92  | 413   | RT. STA. 0+31.31 TO 0+43.08                                      | 9.5    |
| RT. STA. 0+22.11 TO 0+31.31  | 11.4  | LT./RT. STA. 1+91  | 57    |  | TOTAL  |
| TOTAL  | 22.8  | LT./RT. STA. 4+92  | 29    |  | 23.6   |
|  |       | 37TH STREET  |       | 60900515 CONCRETE THRUST BLOCKS                                  | EACH   |
| 54200640 PIPE CULVERTS, TYPE 1, CORRUGATED STEEL OR ALUMINUM CULVERT PIPE, 15" | FOOT  | STA. 9+89 TO 11+13.5   | 145   | 11TH AVENUE  |        |
| NATURE TRAIL   |       |  | TOTAL | 82' LT. STA. 2+24 (24" PIPE DRAIN)                               | 1      |
| LT. & RT. STA. 200+10  | 10    |  | 644   | NATURE TRAIL   |        |
| LT. & RT. STA. 202+32  | 23    | 56400500 FIRE HYDRANTS TO BE REMOVED                         | EACH  | 10.5' LT. STA. 262+31.35 (15" PIPE DRAIN)                        | 1      |
| LT. STA. 202+32-202+77   | 45    | 11TH AVENUE  |       |  | TOTAL  |
| TOTAL  | 78    | 27' RT. STA. 6+18  | 1     |  | 2      |
|  |       |  | TOTAL | 61000215 PORTLAND CEMENT CONCRETE SHOULDERS                      | S. Y.  |
| 54213459 END SECTIONS 24"  | EACH  |  | 1     | MULTI-USE PATH   |        |
| 11TH AVENUE  |       | 56400510 FIRE HYDRANTS TO BE REMOVED AND REPLACED            | EACH  | LT. STA. 101+25 TO 102+74.18                                     | 49.7   |
| 90' LT. STA. 2+14.5  | 1     | 37TH STREET  |       |  | TOTAL  |
| TOTAL  | 1     | 16.7' LT. STA. 9+98  | 1     |  | 49.7   |
|  |       |  | TOTAL | 67100100 MOBILIZATION  | L. SUM |
| 54213657 PRECAST REINFORCED CONCRETE FLARED END SECTIONS 12"                   | EACH  | 56400600 FIRE HYDRANTS                                       | EACH  | ENTIRE PROJECT   | 1      |
| MULTI-USE PATH   |       | 11TH AVENUE  |       |  | TOTAL  |
| 19' LT. STA. 106+91  | 1     | 28' RT. STA. 6+08  | 1     | 70103700 TRAFFIC CONTROL COMPLETE                                | L. SUM |
| TOTAL  | 1     |  | TOTAL | ENTIRE PROJECT   | 1      |
|  |       |  | 1     |  | TOTAL  |
| 54215550 METAL END SECTIONS, 15"   | EACH  | 60100985 PIPE DRAINS 24"                                     | FT.   |  | 1      |
| NATURE TRAIL   |       | 11TH AVENUE  |       |  |        |
| LT. & RT. STA. 200+10  | 2     | 22.7' LT. STA. 2+93  | 106   |  |        |
| LT. & RT. STA. 202+32  | 2     |  | TOTAL |  |        |
| LT. STA. 202+30  | 1     |  | 106   |  |        |
| TOTAL  | 5     | 60107600 PIPE UNDERDRAINS 4"                                 | FOOT  |  |        |
|  |       | 11TH AVENUE  |       |  |        |
| 550A0070 STORM SEWERS, CLASS A, TYPE 1 15"                                     | FT.   | LT. STA. 2+72-2+82   | 10    |  |        |
| 37TH STREET  |       | RT. STA. 2+72-2+82   | 10    |  |        |
| RT. STA. 9+93 TO 10+32   | 38    | LT. STA. 2+88-2+98   | 10    |  |        |
| TOTAL  | 38    | RT. STA. 2+88-2+98   | 10    |  |        |
|  |       | 37TH STREET  |       |  |        |
| 550A0340 STORM SEWERS, CLASS A, TYPE 2, 12"                                    | FT.   | LT. STA. 10+19-10+29   | 10    |  |        |
| 11TH AVENUE  |       | RT. STA. 10+19-10+29   | 10    |  |        |
| LT./RT. STA. 2+85  | 24    | LT. STA. 10+35-10+45   | 10    |  |        |
| MULTI-USE PATH   |       | RT. STA. 10+35-10+45   | 10    |  |        |
| LT. & RT. 107+17   | 38    |  | TOTAL |  |        |
| LT. 107-09 TO 106+97   | 16    |  | 80    |  |        |
| TOTAL  | 78    |  |       |  |        |

PLOT DATE: 11/15/05  
 FILE NAME: 111111.DWG  
 PLOT SCALE: 1/8"=1'-0"  
 USER NAME: RUSSEN

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ILLINOIS DEPARTMENT OF TRANSPORTATION

## SCHEDULE OF QUANTITIES

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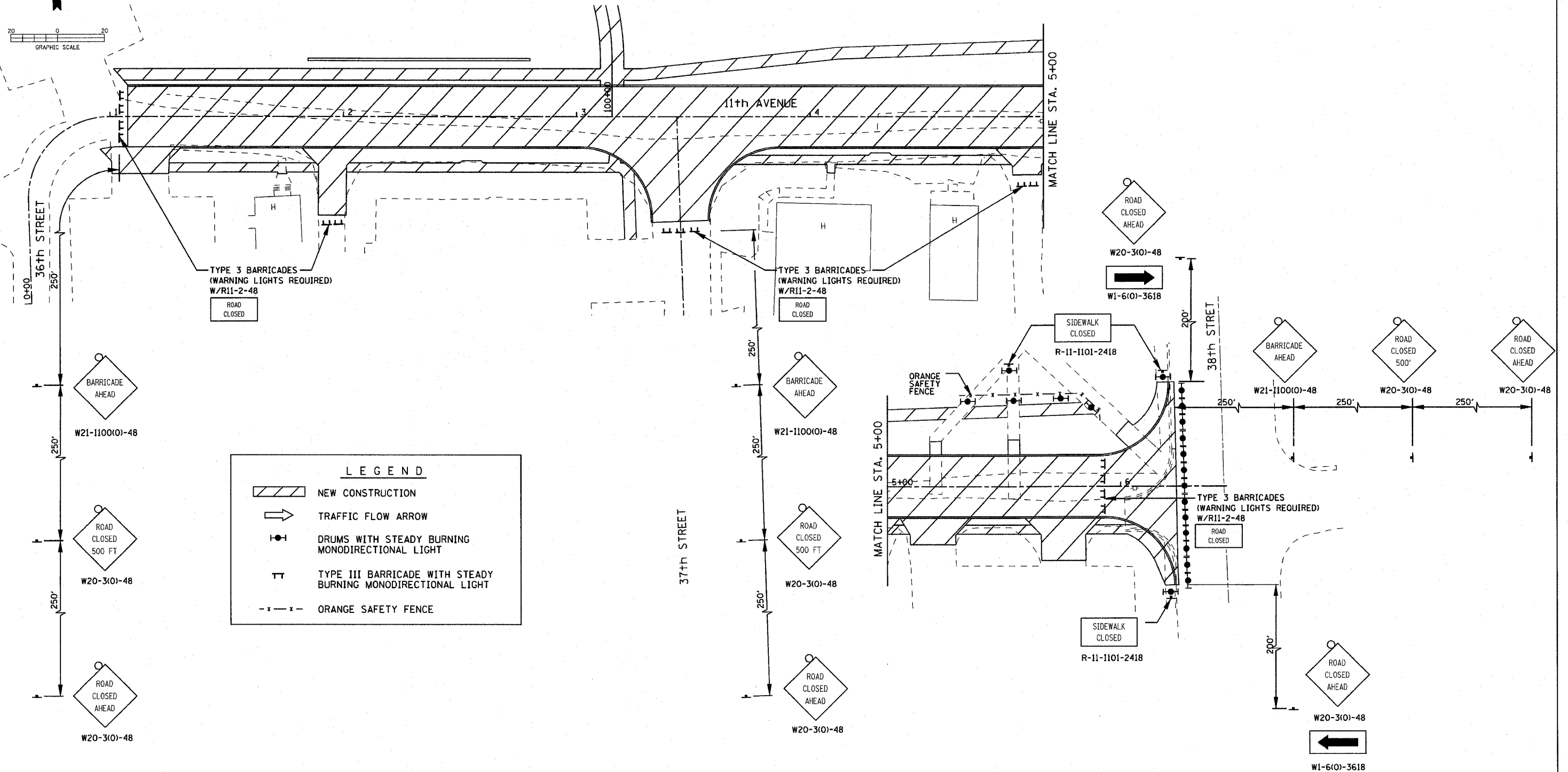
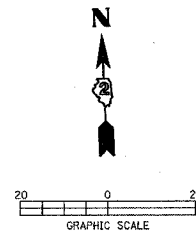
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| F.A. RTE.           | SECTION                   | COUNTY   | TOTAL SHEETS | SHEET NO. |
| 05-00174-00-B1      | ROCK ISLAND               | ILLINOIS | 112          | 24        |
| STA.                | TO STA.                   |          |              |           |
| FED. ROAD DIST. NO. | ILLINOIS FED. AID PROJECT |          |              |           |

# STAGING PLAN



| LEGEND |  |
|--------|--|
|        | NEW CONSTRUCTION   |
|        | TRAFFIC FLOW ARROW   |
|        | DRUMS WITH STEADY BURNING MONODIRECTIONAL LIGHT              |
|        | TYPE III BARRICADE WITH STEADY BURNING MONODIRECTIONAL LIGHT |
|        | ORANGE SAFETY FENCE  |

- NOTES:
1. WATERMAIN CONSTRUCTION WILL BE COMPLETED UNDER STAGE 1 TRAFFIC CONTROL. ONCE THE WATERMAIN ALONG 37TH STREET IS COMPLETED, TEMPORARY ROCK WILL BE PLACED AS DIRECTED BY THE ENGINEER TO MAINTAIN ACCESS ON 37TH STREET.
  2. STAGE 1: CONSTRUCT 11TH AVENUE, THE MULTI-USE PATH, AND THE NATURE TRAIL.

PLOT DATE \* DATES \*  
 FILE NAME \* FILES \*  
 PLOT SCALE \* SCALES \*  
 USER NAME \* USERS \*

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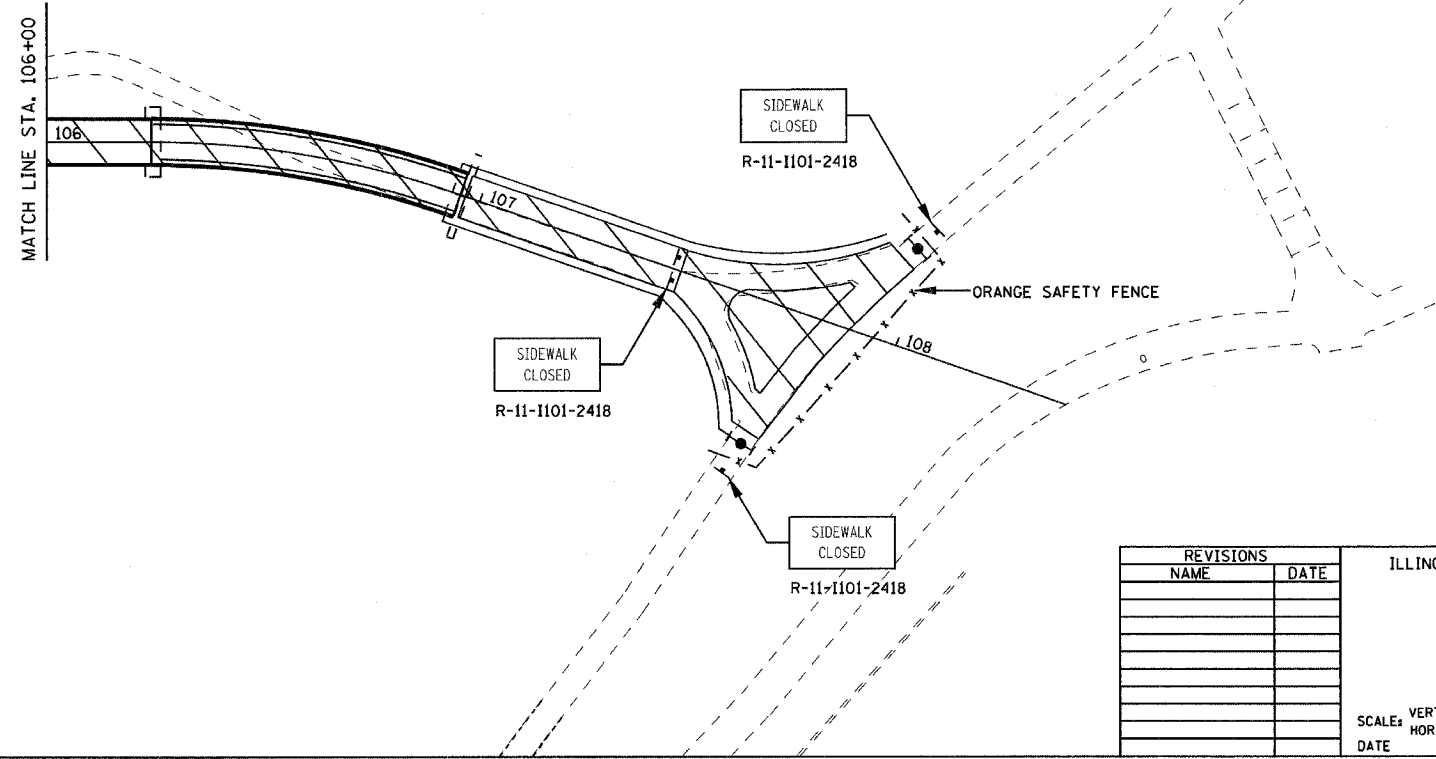
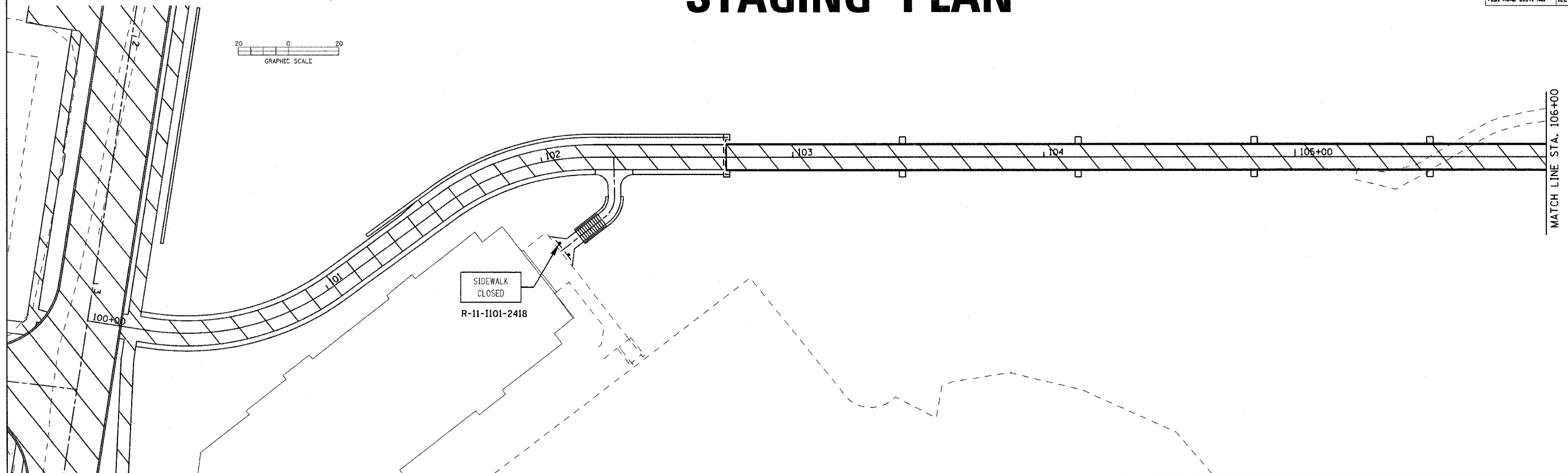
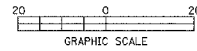
ILLINOIS DEPARTMENT OF TRANSPORTATION

## STAGING PLAN STAGE 1

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| F.A. RTE.           | SECTION        | COUNTY                    | TOTAL SHEETS | SHEET NO. |
|                     | 05-00174-00-BT | ROCK ISLAND               | 112          | 25        |
| STA.                |                | TO STA.                   |              |           |
| FED. ROAD DIST. NO. |                | ILLINOIS FED. AID PROJECT |              |           |

# STAGING PLAN



| LEGEND |  |
|--------|--|
|        | NEW CONSTRUCTION   |
|        | TRAFFIC FLOW ARROW   |
|        | DRUMS WITH STEADY BURNING MONODIRECTIONAL LIGHT              |
|        | TYPE III BARRICADE WITH STEADY BURNING MONODIRECTIONAL LIGHT |
|        | ORANGE SAFETY FENCE  |

| REVISIONS |      |
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ILLINOIS DEPARTMENT OF TRANSPORTATION

## STAGING PLAN STAGE 1

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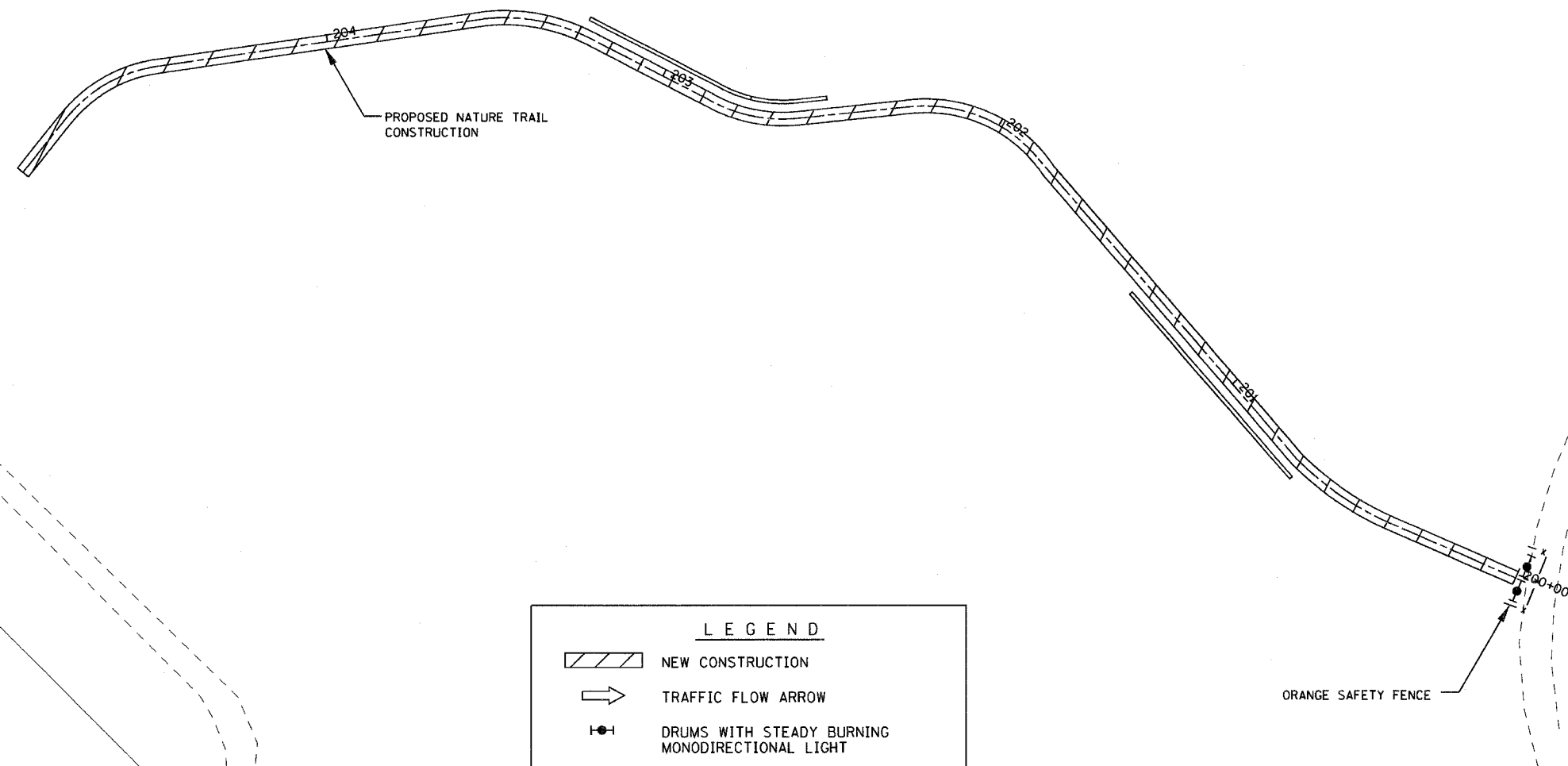
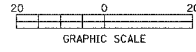
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USER NAME \* \* USER \*



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| F.A. RTE.           | SECTION        | COUNTY                    | TOTAL SHEETS | SHEET NO. |
|                     | 05-00174-00-BT | ROCK ISLAND               | 112          | 26        |
| STA.                |                | TO STA.                   |              |           |
| FED. ROAD DIST. NO. |                | ILLINOIS FED. AID PROJECT |              |           |

# STAGING PLAN



| LEGEND |  |
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|        | NEW CONSTRUCTION   |
|        | TRAFFIC FLOW ARROW   |
|        | DRUMS WITH STEADY BURNING MONODIRECTIONAL LIGHT              |
|        | TYPE III BARRICADE WITH STEADY BURNING MONODIRECTIONAL LIGHT |
|        | ORANGE SAFETY FENCE  |

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ILLINOIS DEPARTMENT OF TRANSPORTATION

## STAGING PLAN STAGE 1

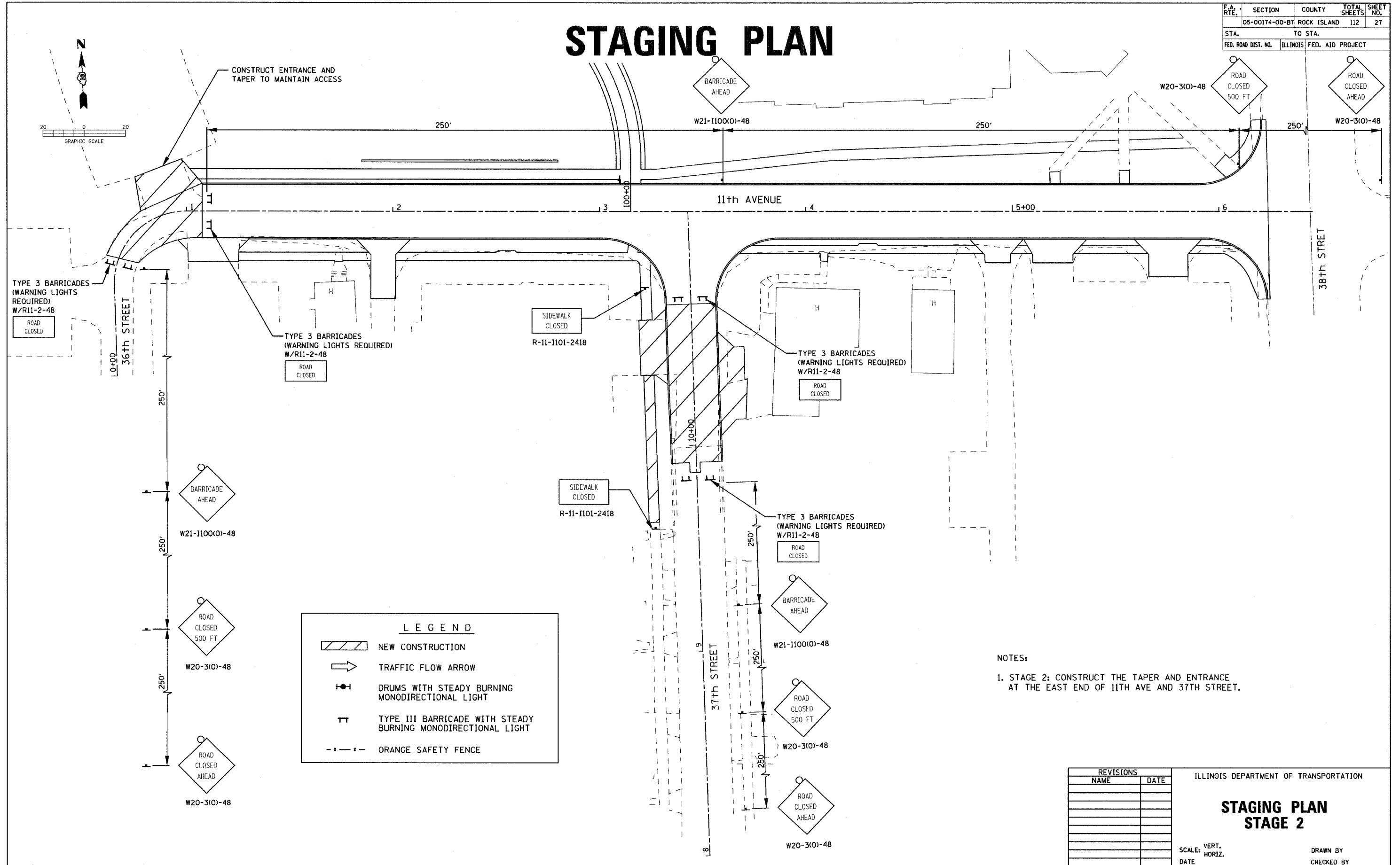
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| F.A. RY.            | SECTION        | COUNTY           | TOTAL SHEETS | SHEET NO. |
|                     | 05-00174-00-BT | ROCK ISLAND      | 112          | 27        |
| STA.                | TO STA.        |                  |              |           |
| FED. ROAD DIST. NO. | ILLINOIS       | FED. AID PROJECT |              |           |

# STAGING PLAN



| LEGEND |  |
|--------|--|
|        | NEW CONSTRUCTION   |
|        | TRAFFIC FLOW ARROW   |
|        | DRUMS WITH STEADY BURNING MONODIRECTIONAL LIGHT              |
|        | TYPE III BARRICADE WITH STEADY BURNING MONODIRECTIONAL LIGHT |
|        | ORANGE SAFETY FENCE  |

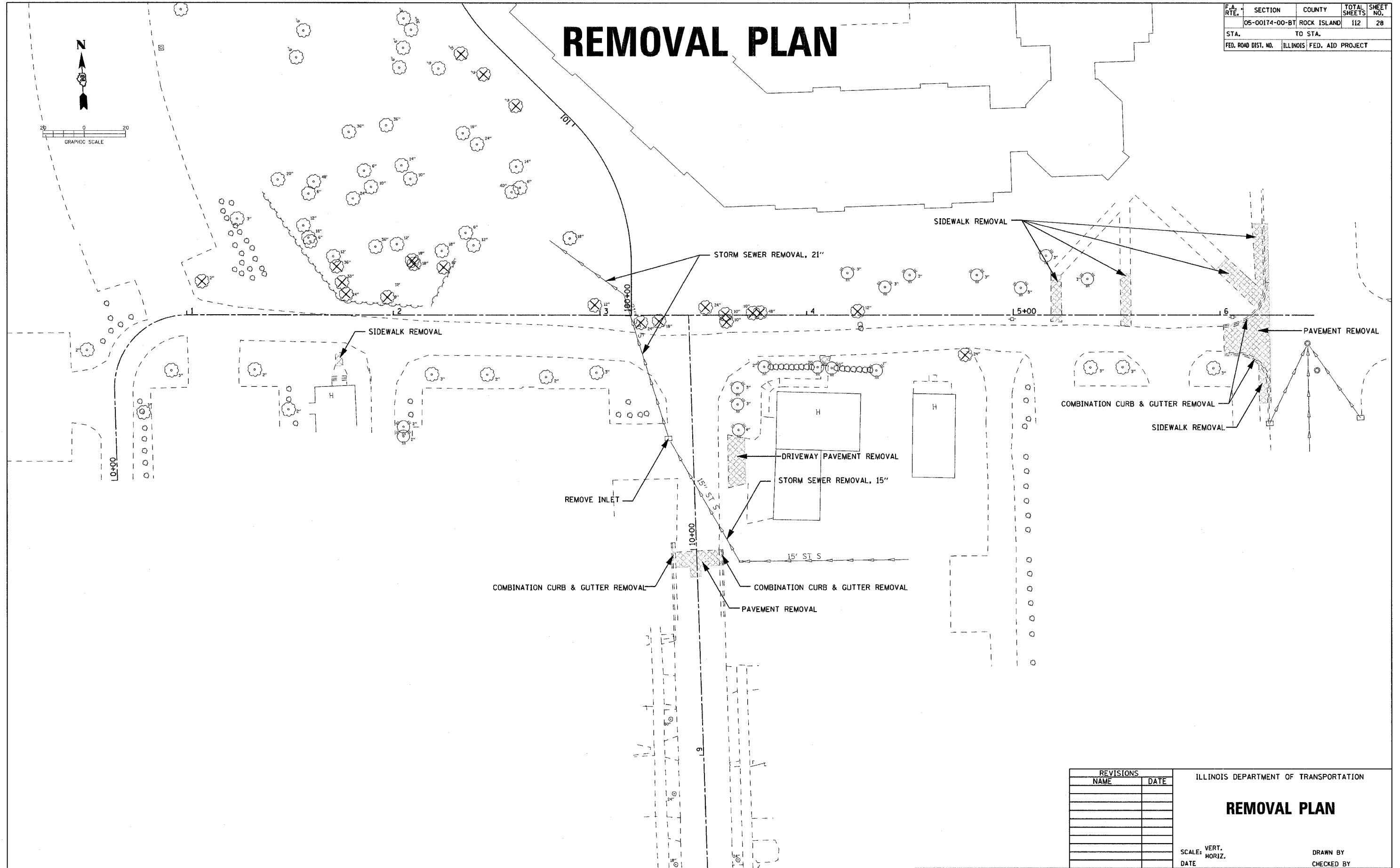
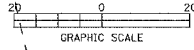
NOTES:  
 1. STAGE 2: CONSTRUCT THE TAPER AND ENTRANCE AT THE EAST END OF 11TH AVE AND 37TH STREET.

| REVISIONS |      | ILLINOIS DEPARTMENT OF TRANSPORTATION   |
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| NAME      | DATE |   |
|           |      | <p align="center"><b>STAGING PLAN</b><br/><b>STAGE 2</b></p> <p>SCALE: VERT. _____<br/>                 HORIZ. _____</p> <p>DATE _____ DRAWN BY _____<br/>                 CHECKED BY _____</p> |
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PLOT DATE \* \* \* \* \*  
 FILE NAME \* \* \* \* \*  
 PLOT SCALE \* \* \* \* \*  
 USER NAME \* \* \* \* \*

|                     |                           |             |              |           |
|---------------------|---------------------------|-------------|--------------|-----------|
| F.A. RTE.           | SECTION                   | COUNTY      | TOTAL SHEETS | SHEET NO. |
|                     | 05-00174-00-BT            | ROCK ISLAND | 112          | 28        |
| STA.                | TO STA.                   |             |              |           |
| FED. ROAD DIST. NO. | ILLINOIS FED. AID PROJECT |             |              |           |

# REMOVAL PLAN



PLOT DATE \* \* \* \* \*  
 FILE NAME \* \* \* \* \*  
 PLOT SCALE \* \* \* \* \*  
 USER NAME \* \* \* \* \*

| REVISIONS |      |
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| NAME      | DATE |
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ILLINOIS DEPARTMENT OF TRANSPORTATION

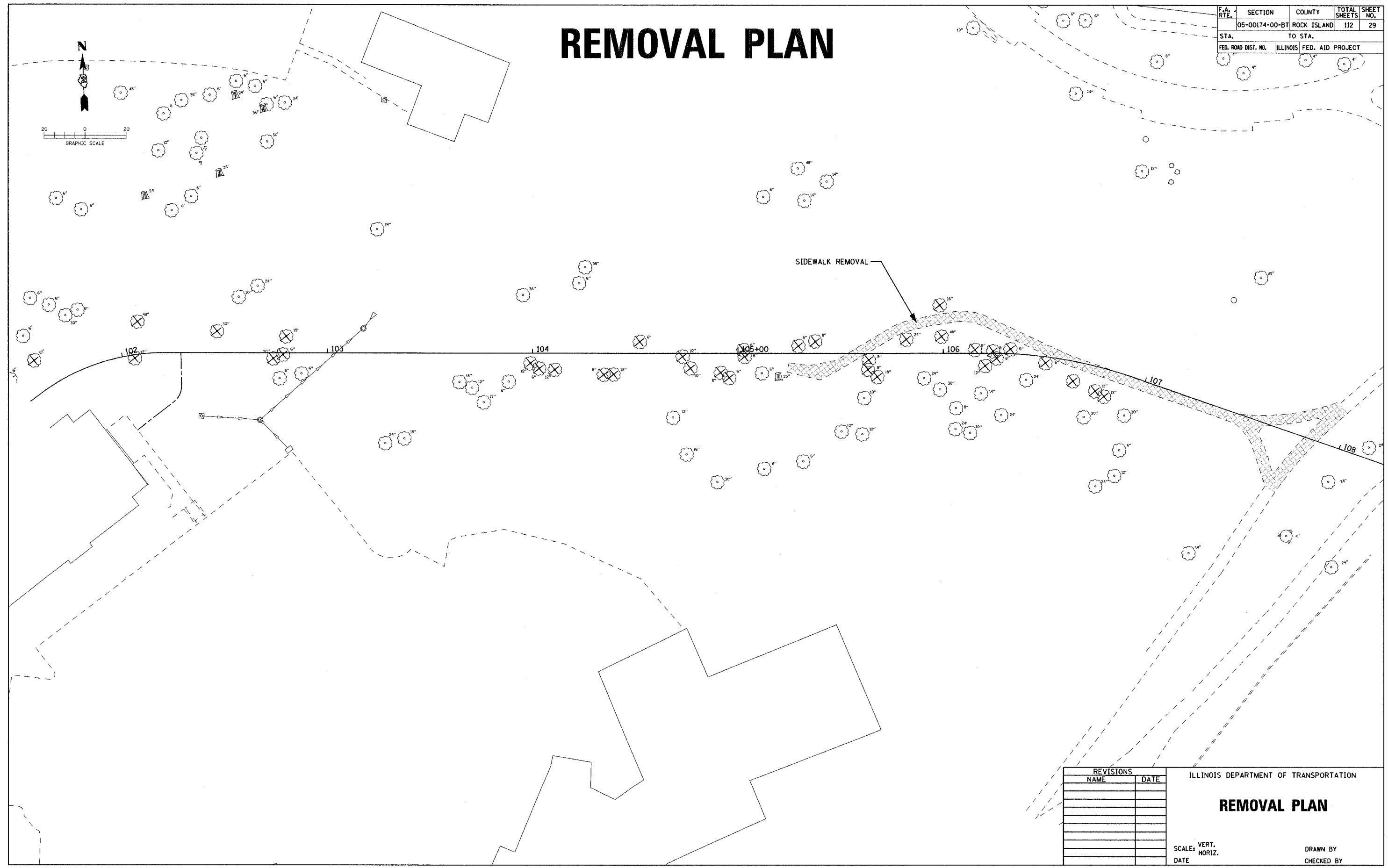
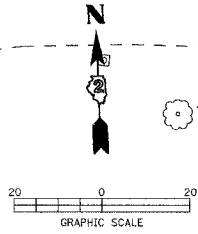
## REMOVAL PLAN

SCALE: VERT. \_\_\_\_\_  
 HORIZ. \_\_\_\_\_  
 DATE \_\_\_\_\_

DRAWN BY \_\_\_\_\_  
 CHECKED BY \_\_\_\_\_

# REMOVAL PLAN

|                     |                |                  |              |           |
|---------------------|----------------|------------------|--------------|-----------|
| F.A. RTE.           | SECTION        | COUNTY           | TOTAL SHEETS | SHEET NO. |
|                     | 05-00174-00-BT | ROCK ISLAND      | 112          | 29        |
| STA.                | TO STA.        |                  |              |           |
| FED. ROAD DIST. NO. | ILLINOIS       | FED. AID PROJECT |              |           |



PLOT DATE \* DATES  
 FILE NAME \* FILES  
 PLOT SCALE \* SCALES  
 USER NAME \* USERS

| REVISIONS |      |
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| NAME      | DATE |
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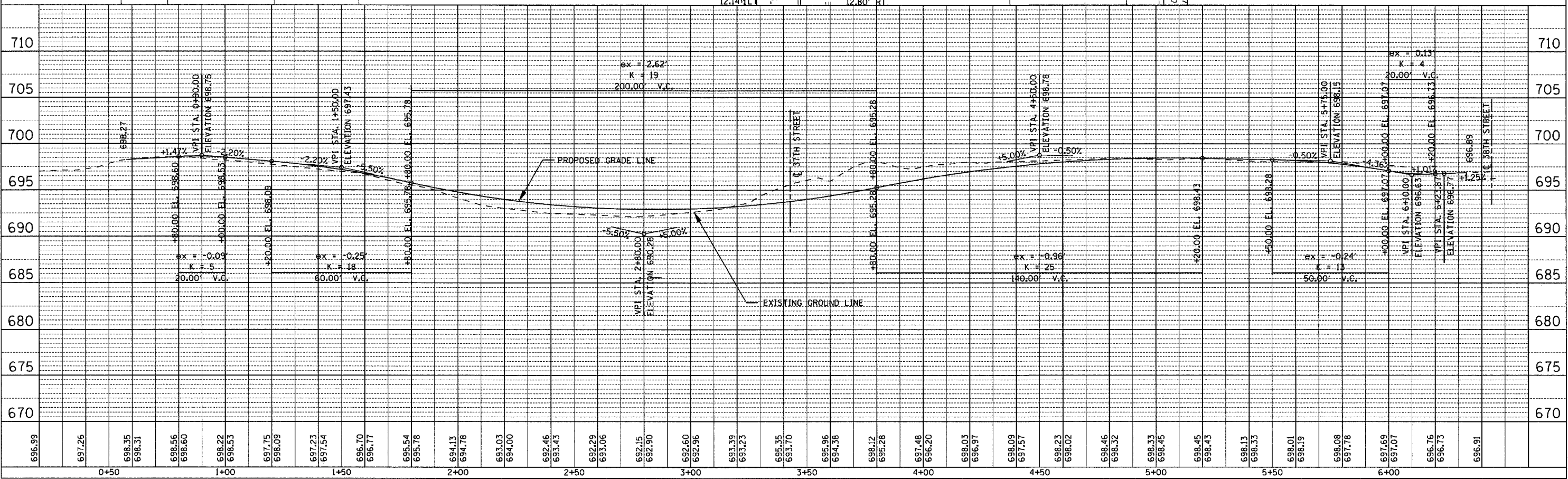
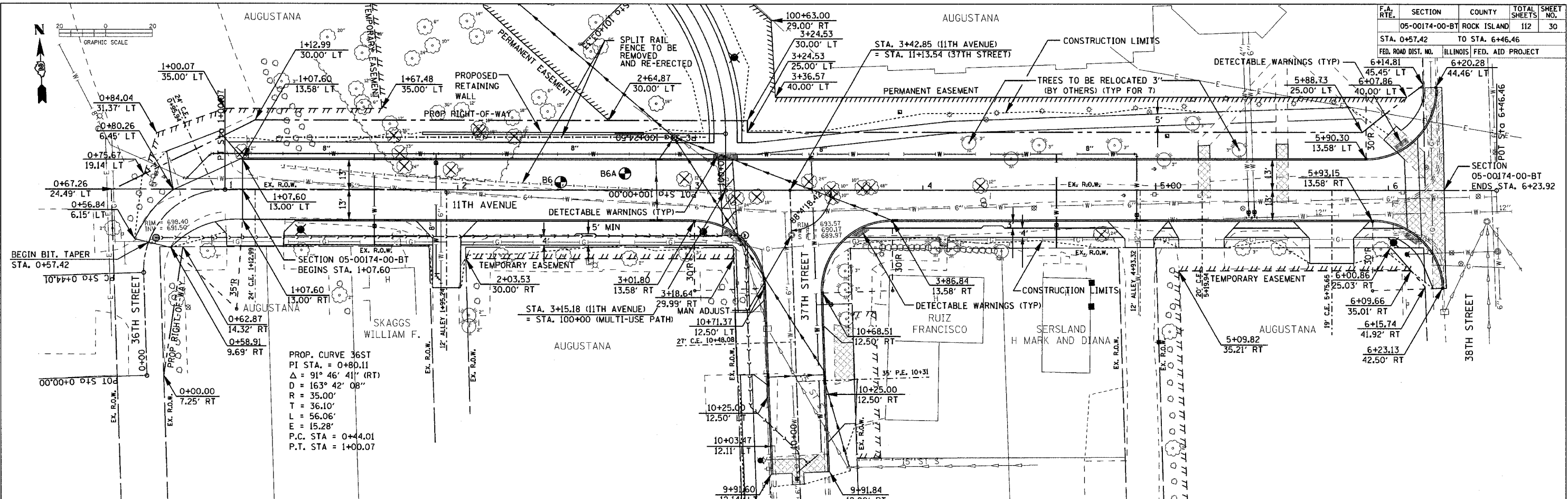
ILLINOIS DEPARTMENT OF TRANSPORTATION

## REMOVAL PLAN

SCALE: VERT. \_\_\_\_\_  
 HORIZ. \_\_\_\_\_  
 DATE \_\_\_\_\_

DRAWN BY \_\_\_\_\_  
 CHECKED BY \_\_\_\_\_

| F.A. RTE.                    | SECTION     | COUNTY                    | TOTAL SHEETS | SHEET NO. |
|------------------------------|-------------|---------------------------|--------------|-----------|
| 05-00174-00-BT               | ROCK ISLAND | 112                       | 30           |           |
| STA. 0+57.42 TO STA. 6+46.46 |             |                           |              |           |
| FED. ROAD DIST. NO.          |             | ILLINOIS FED. AID PROJECT |              |           |



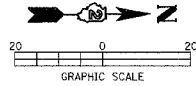
11TH AVENUE STA 0+57.42 TO 6+46.46

DATE: \_\_\_\_\_  
 BY: \_\_\_\_\_  
 SURVEYED: \_\_\_\_\_  
 PLAN: \_\_\_\_\_  
 CHECKED: \_\_\_\_\_  
 ALIGNED: \_\_\_\_\_  
 GRADES: \_\_\_\_\_  
 NOTE BOOK: \_\_\_\_\_  
 NO. \_\_\_\_\_

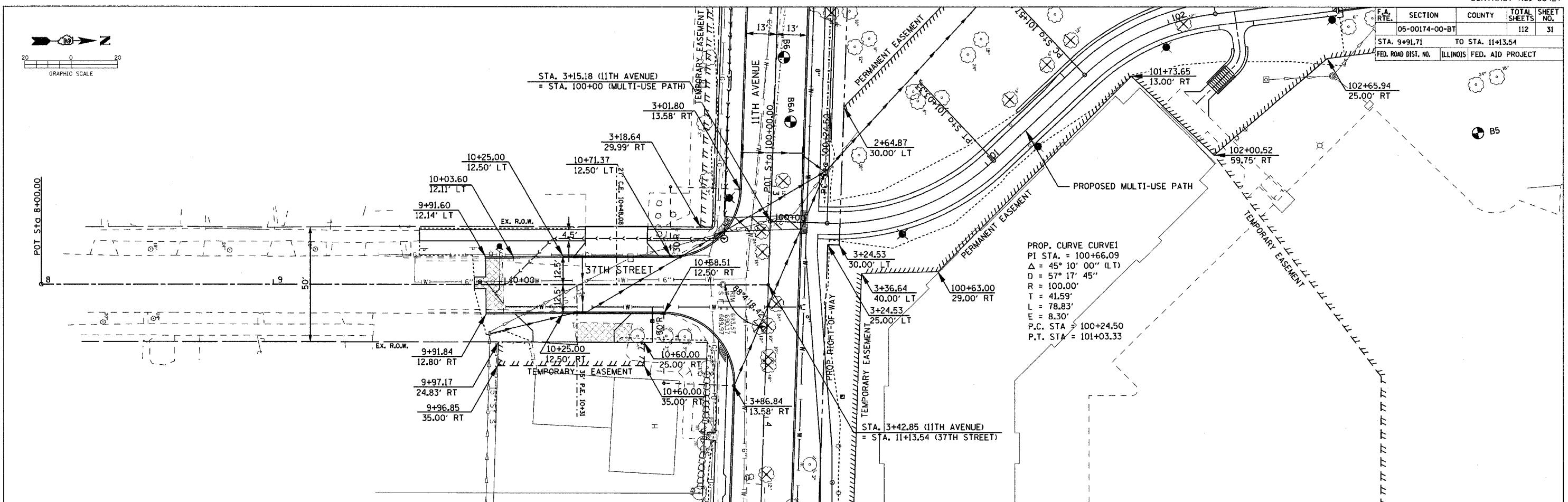
DATE: \_\_\_\_\_  
 BY: \_\_\_\_\_  
 SURVEYED: \_\_\_\_\_  
 PROFILE: \_\_\_\_\_  
 CHECKED: \_\_\_\_\_  
 GRADES: \_\_\_\_\_  
 NOTE BOOK: \_\_\_\_\_  
 NO. \_\_\_\_\_

DATE: \_\_\_\_\_  
 FILE NAME: \_\_\_\_\_  
 PLOT SCALE: \_\_\_\_\_  
 USER NAME: \_\_\_\_\_

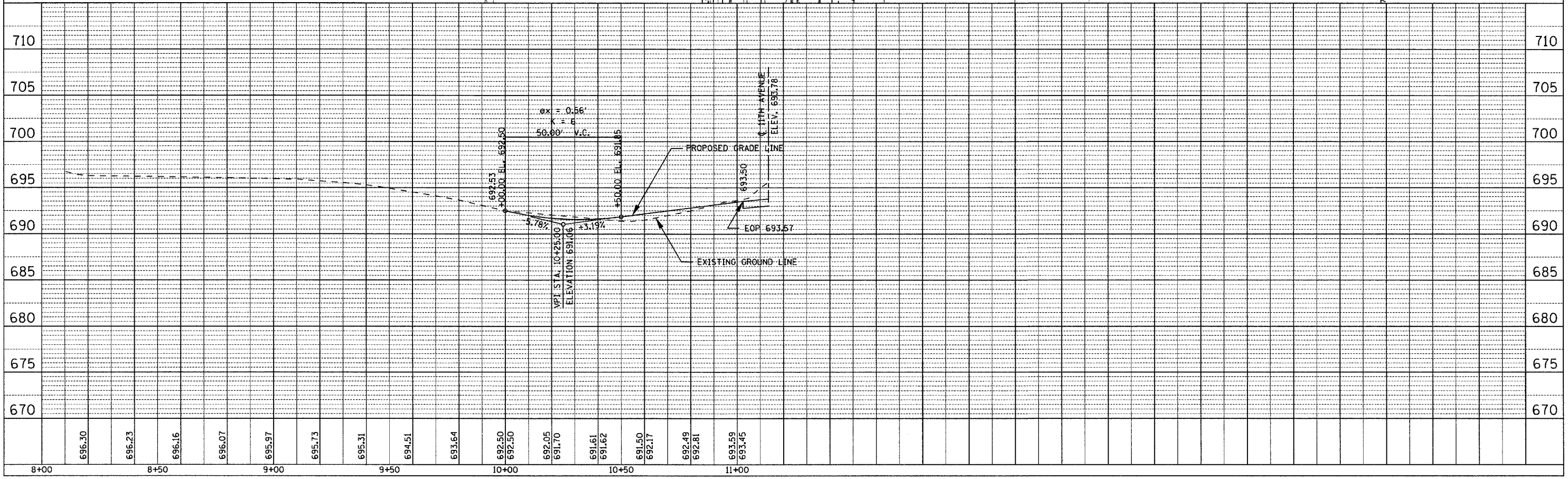
|                     |                |                           |              |           |
|---------------------|----------------|---------------------------|--------------|-----------|
| F.A. RTL.           | SECTION        | COUNTY                    | TOTAL SHEETS | SHEET NO. |
|                     | 05-00174-00-BT |                           | 112          | 31        |
| STA. 9+91.71        |                | TO STA. 11+13.54          |              |           |
| FED. ROAD DIST. NO. |                | ILLINOIS FED. AID PROJECT |              |           |



|      |          |      |
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| PLAN | SURVEYED | DATE |
|      | BY       |      |
|      | NOTED    |      |
|      | CHECKED  |      |
|      | DATE     |      |



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| PROFILE | SURVEYED | DATE |
|         | BY       |      |
|         | NOTED    |      |
|         | CHECKED  |      |
|         | DATE     |      |



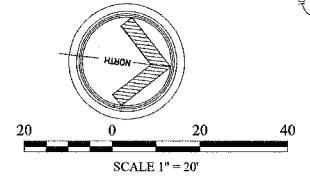
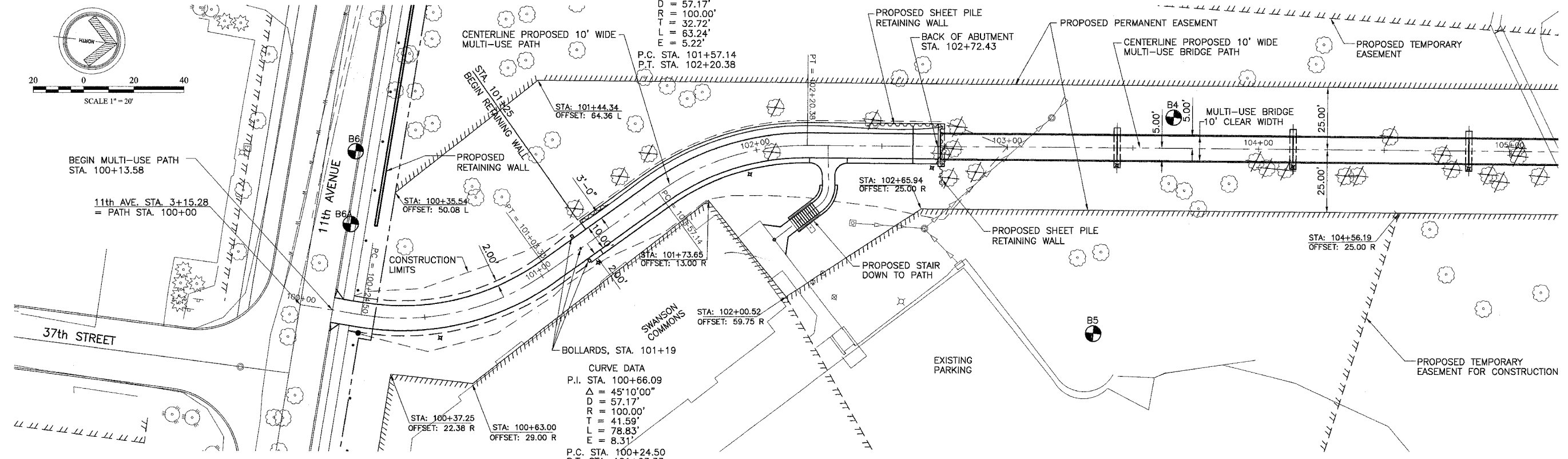
PLOT DATE \* STATES  
 FILE NAME \* \$FILE\$  
 PLOT SCALE \* \$SCALE\$  
 USER NAME



| F.A. RTE.                    | SECTION | COUNTY            | TOTAL SHEETS | SHEET NO. |
|------------------------------|---------|-------------------|--------------|-----------|
| *                            |         | ROCK ISLAND       | 112          | 32        |
| STA. 100+13.58               |         | TO STA. 107+48.68 |              |           |
| FED. ROAD DIST. NO. ILLINOIS |         | FED. AID PROJECT  |              |           |
| *05-00174-00-BT              |         |                   |              |           |

CURVE DATA  
 P.I. STA. 101+89.86  
 $\Delta = 36^{\circ}14'06''$   
 $D = 57.17'$   
 $R = 100.00'$   
 $T = 32.72'$   
 $L = 63.24'$   
 $E = 5.22'$   
 P.C. STA. 101+57.14  
 P.T. STA. 102+20.38

CURVE DATA  
 P.I. STA. 100+66.09  
 $\Delta = 45^{\circ}10'00''$   
 $D = 57.17'$   
 $R = 100.00'$   
 $T = 41.59'$   
 $L = 78.83'$   
 $E = 8.31'$   
 P.C. STA. 100+24.50  
 P.T. STA. 101+03.33



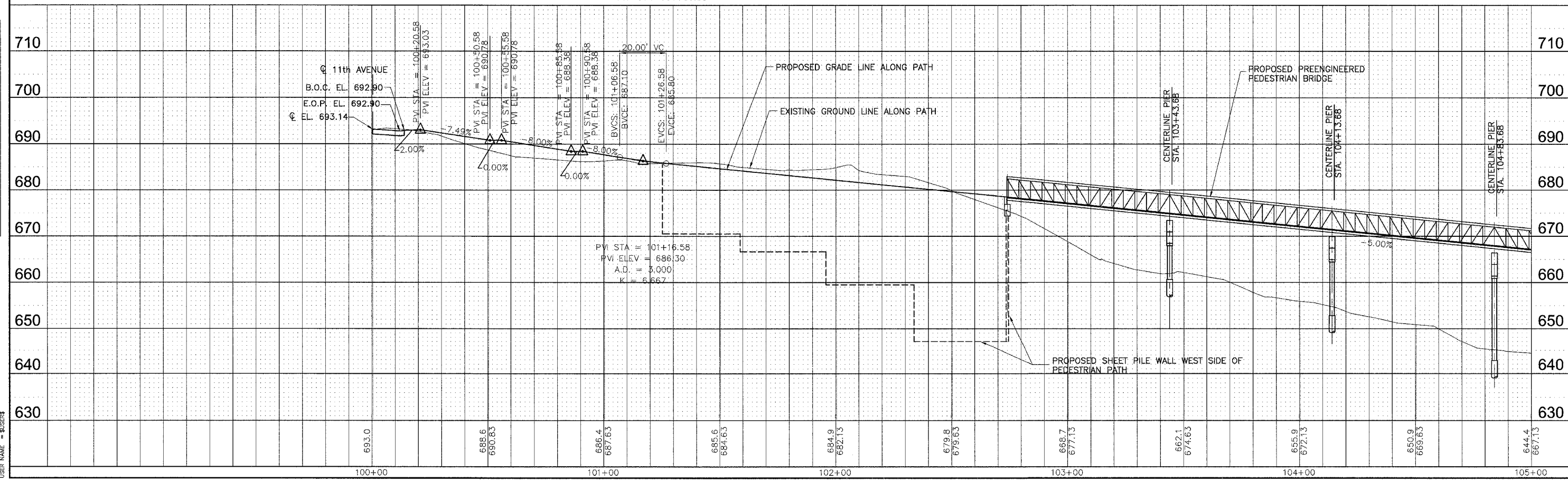
| DATE | BY |
|------|----|
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SUPERVISOR \_\_\_\_\_  
 CHECKED \_\_\_\_\_  
 NOTE BOOK NO. \_\_\_\_\_  
 PLAN NO. \_\_\_\_\_  
 FILE NAME \_\_\_\_\_  
 USER NAME \_\_\_\_\_

| DATE | BY |
|------|----|
|      |    |
|      |    |

SUPERVISOR \_\_\_\_\_  
 CHECKED \_\_\_\_\_  
 NOTE BOOK NO. \_\_\_\_\_  
 PROFILE NO. \_\_\_\_\_  
 FILE NAME \_\_\_\_\_  
 USER NAME \_\_\_\_\_

PLOT DATE = \$DATE\$  
 FILE NAME = \$FILE\$  
 USER NAME = \$USER\$

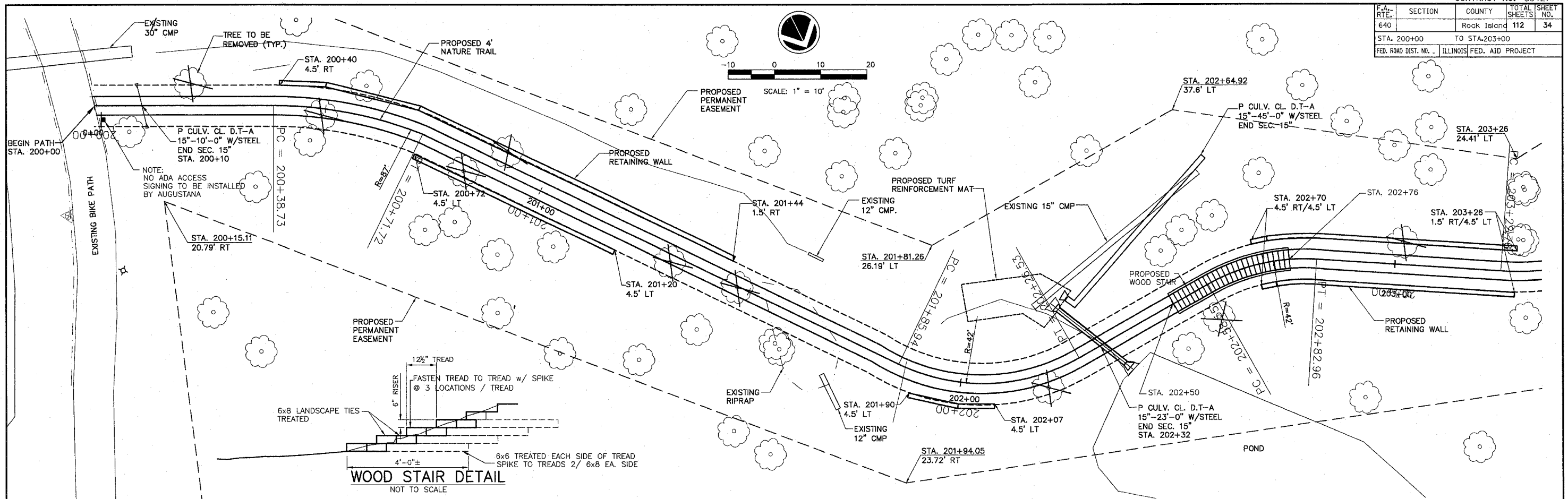


MULTI-USE PATH STA. 100+00 - 105+00



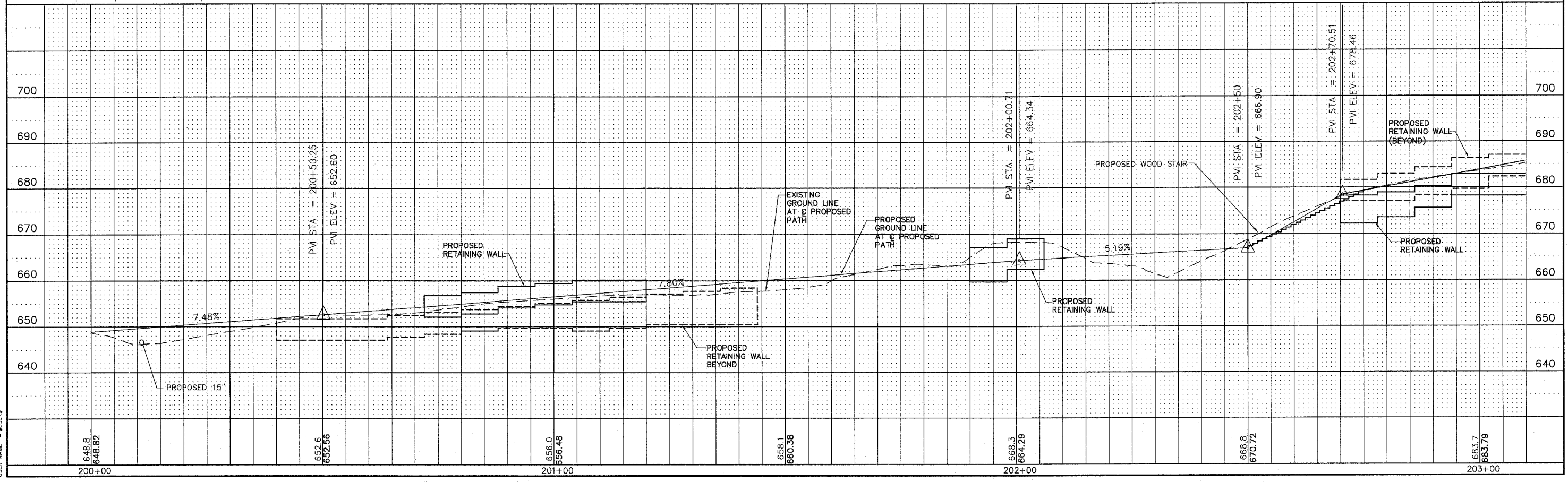


| F.A. RT#                                      | SECTION | COUNTY         | TOTAL SHEETS | SHEET NO. |
|---|---------|----------------|--------------|-----------|
| 640   |         | Rock Island    | 112          | 34        |
| STA. 200+00                                   |         | TO STA. 203+00 |              |           |
| FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT |         |                |              |           |



| DATE | BY |
|------|----|
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| DATE | BY |
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PLOT DATE = \$DATE\$  
 PLOT SCALE = \$SCALE\$  
 USER NAME = \$USER\$

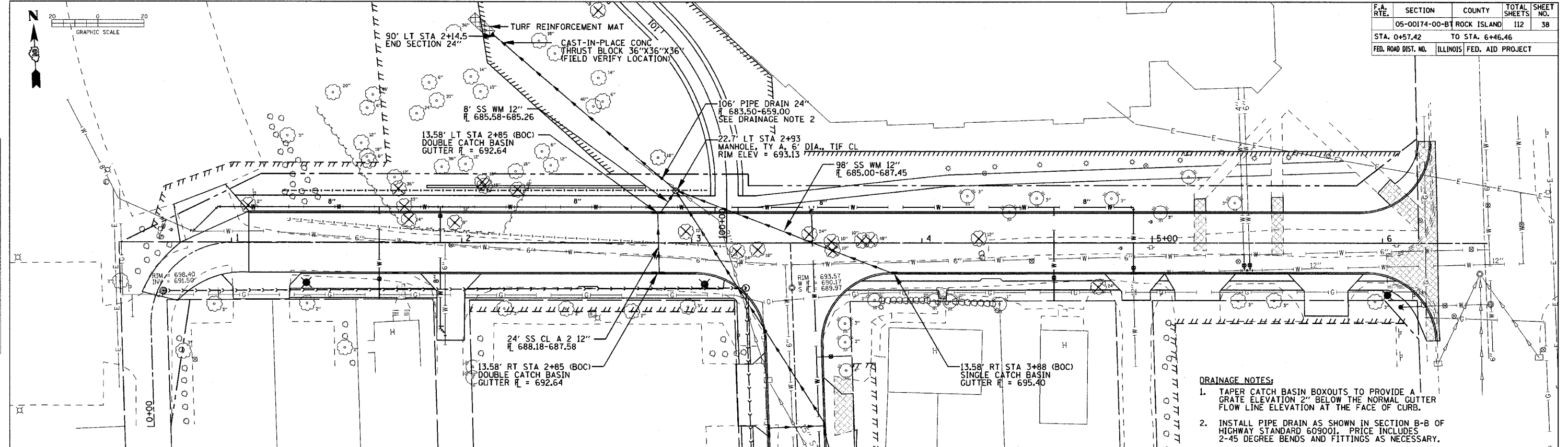




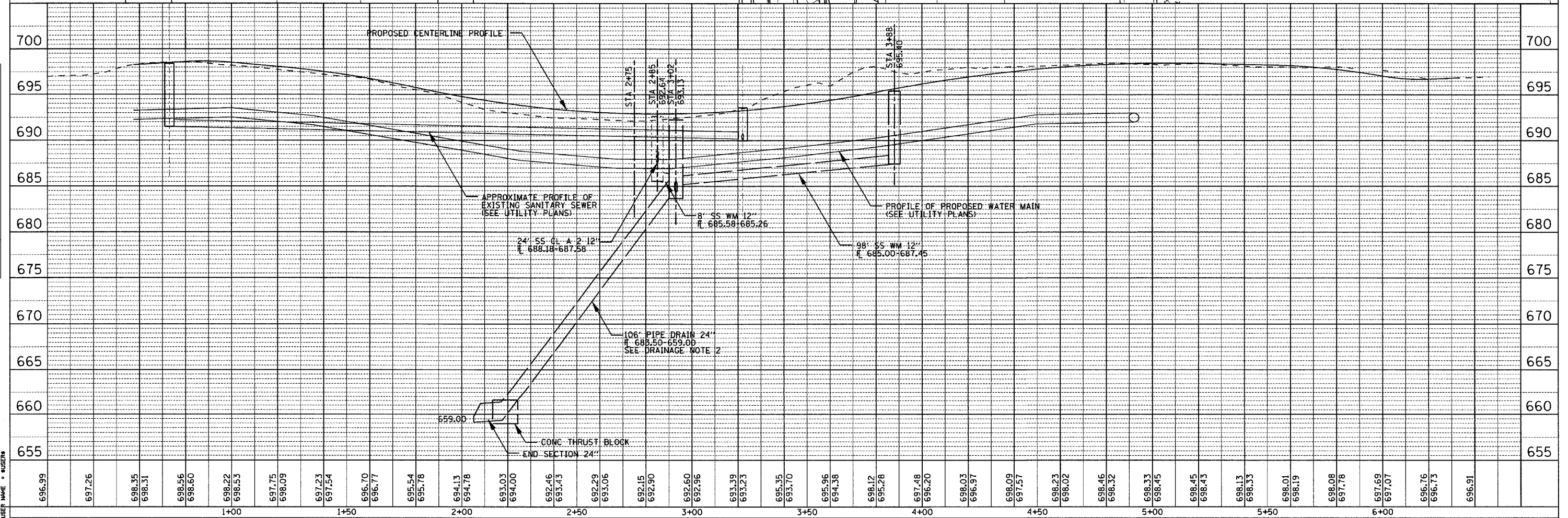




| F.A. RTE.           | SECTION                    | COUNTY          | TOTAL SHEETS | SHEET NO.        |
|---------------------|----------------------------|-----------------|--------------|------------------|
|                     | 05-00174-00-BT ROCK ISLAND | ILL             | 112          | 38               |
| STA. 0+57.42        |                            | TO STA. 6+46.46 |              |                  |
| FED. ROAD DIST. NO. |                            | ILLINOIS        |              | FED. AID PROJECT |



- DRAINAGE NOTES:**
1. TAPER CATCH BASIN BOXOUTS TO PROVIDE A GRATE ELEVATION 2" BELOW THE NORMAL GUTTER FLOW LINE ELEVATION AT THE FACE OF CURB.
  2. INSTALL PIPE DRAIN AS SHOWN IN SECTION B-B OF HIGHWAY STANDARD 609001. PRICE INCLUDES 2-45 DEGREE BENDS AND FITTINGS AS NECESSARY.



DATE: \_\_\_\_\_ BY: \_\_\_\_\_

PLAN

SURVEYED \_\_\_\_\_ CHECKED \_\_\_\_\_

ALIGNED \_\_\_\_\_ CHECKED \_\_\_\_\_

NOTE BOOK \_\_\_\_\_

FILE NAME \_\_\_\_\_

NO. \_\_\_\_\_

DATE: \_\_\_\_\_ BY: \_\_\_\_\_

PROFILE

SURVEYED \_\_\_\_\_ CHECKED \_\_\_\_\_

GRADES \_\_\_\_\_ CHECKED \_\_\_\_\_

PLAN NOTED \_\_\_\_\_

NOTE BOOK \_\_\_\_\_

FILE NAME \_\_\_\_\_

NO. \_\_\_\_\_

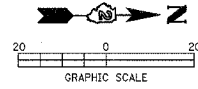
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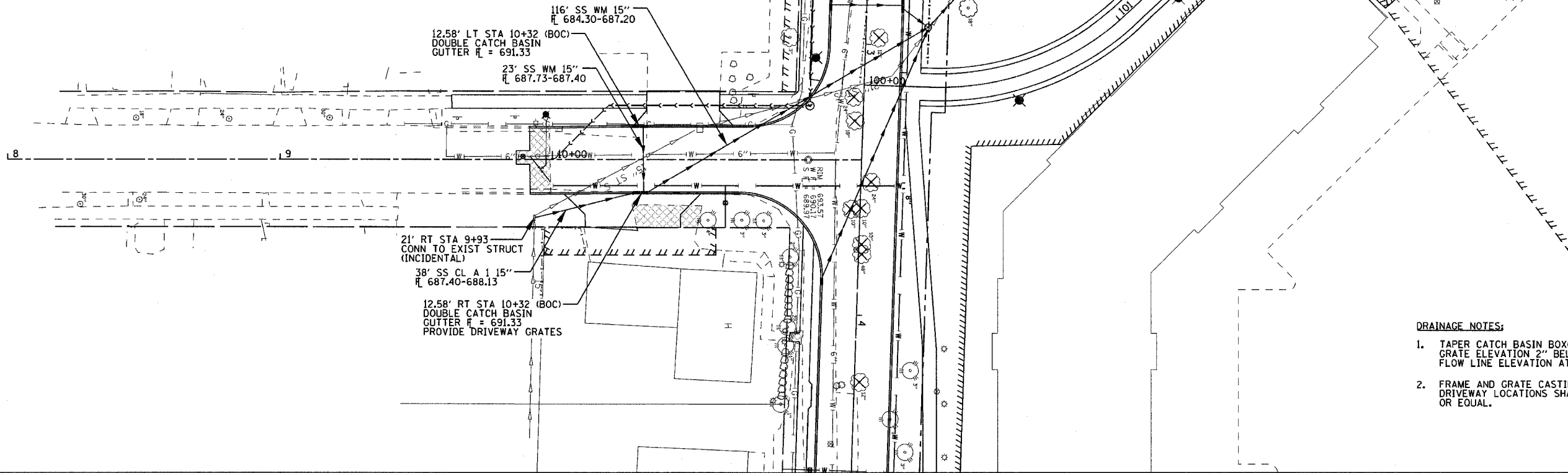
LOT SCALE = #SCALES

USER NAME = #USERS

| F.A. RTE.           | SECTION        | COUNTY                    | TOTAL SHEETS | SHEET NO. |
|---------------------|----------------|---------------------------|--------------|-----------|
|                     | 05-00174-00-BT | ROCK ISLAND               | 112          | 39        |
| STA. 9+91.71        |                | TO STA. 11+13.54          |              |           |
| FED. ROAD DIST. NO. |                | ILLINOIS FED. AID PROJECT |              |           |



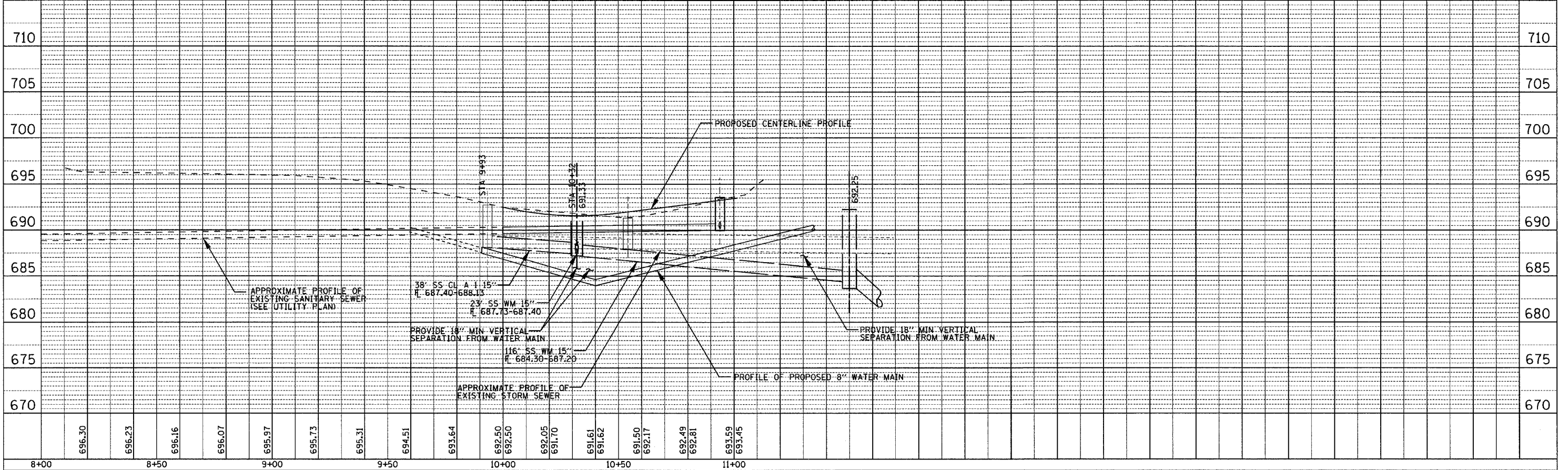
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| BY            |      |
| NOTE BOOK NO. |      |
| DATE          |      |



**DRAINAGE NOTES:**

1. TAPER CATCH BASIN BOXOUTS TO PROVIDE A GRATE ELEVATION 2" BELOW THE NORMAL GUTTER FLOW LINE ELEVATION AT THE FACE OF CURB.
2. FRAME AND GRATE CASTINGS FOR CATCH BASINS AT DRIVEWAY LOCATIONS SHALL BE NEENAH R-3290-A OR EQUAL.

| PROFILE       | DATE |
|---------------|------|
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| PLOTTED       |      |
| CHECKED       |      |
| BY            |      |
| NOTE BOOK NO. |      |
| DATE          |      |



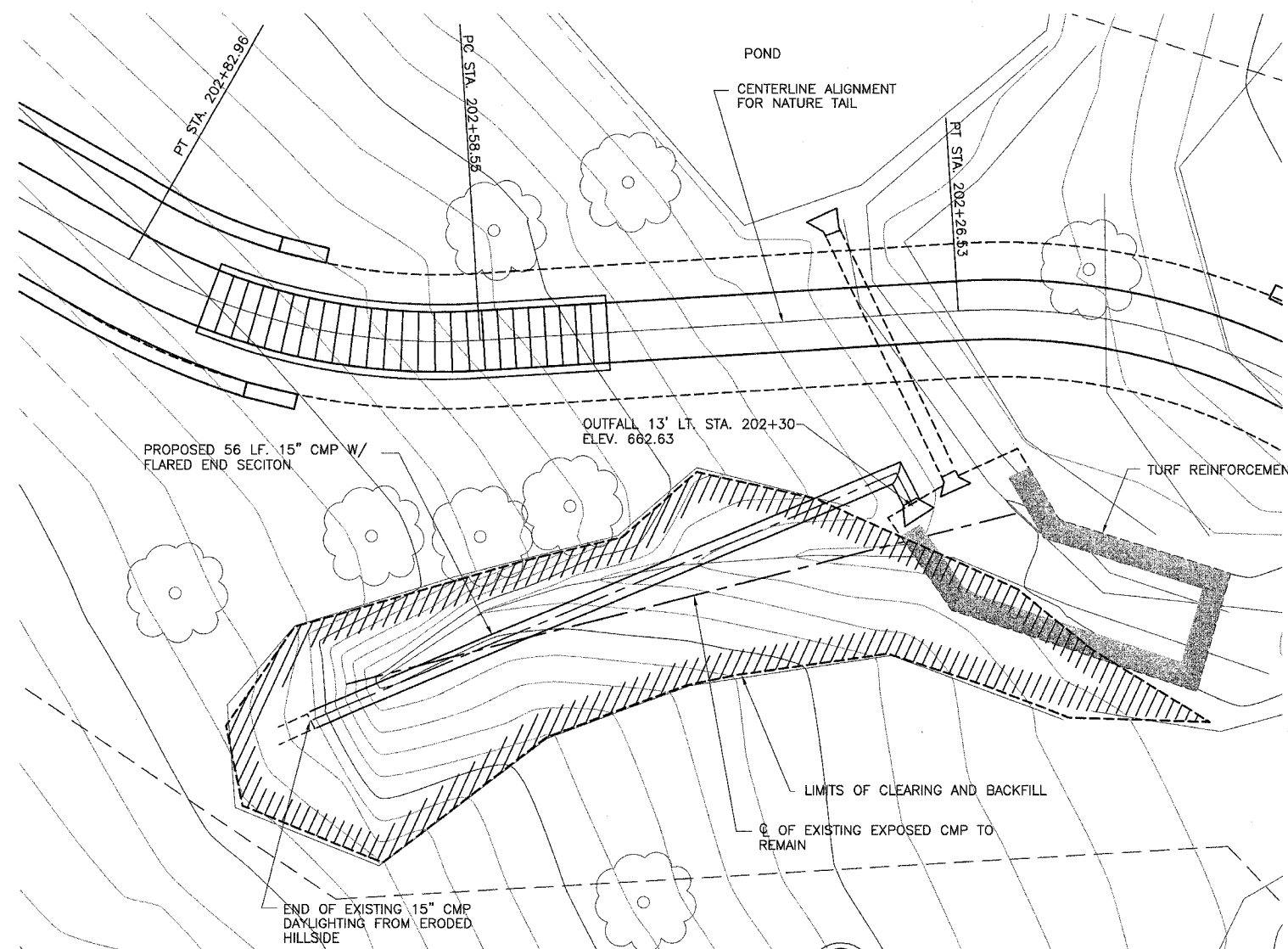
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 FILE NAME = 85427.DWG  
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 USER NAME = JWB

**37TH STREET DRAINAGE PLANS STA 9+91.71 TO 11+13.54**

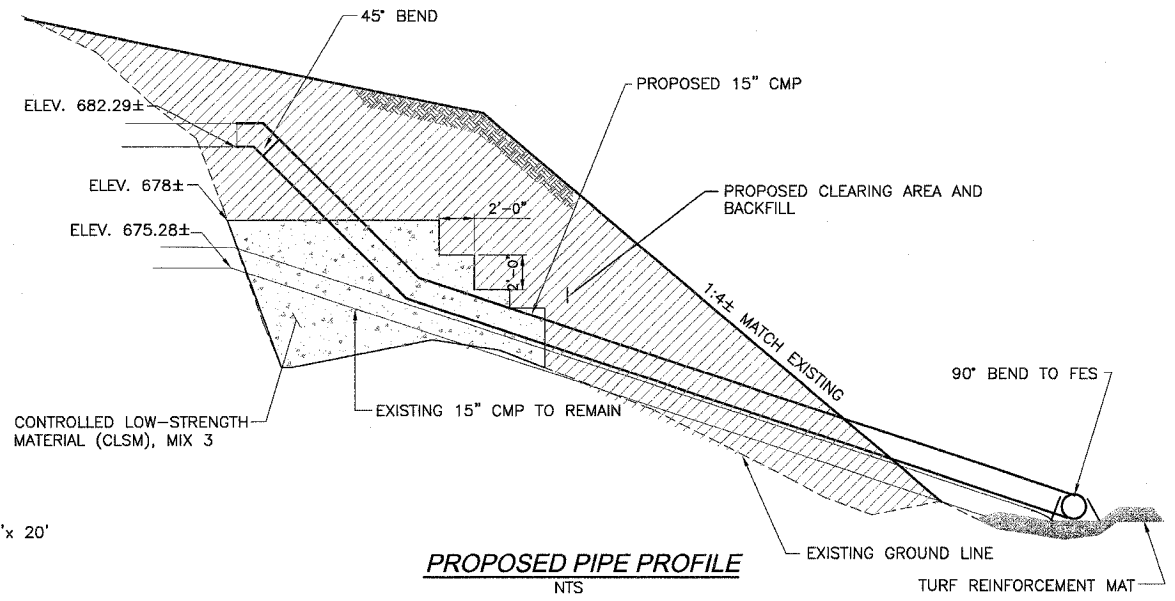
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

| ROUTE NO.             | SECTION | COUNTY      | TOTAL SHEETS      | SHEET NO. |
|-----------------------|---------|-------------|-------------------|-----------|
|                       | *       | ROCK ISLAND | 112               | 40        |
| FED. ROAD DIST. NO. 7 |         | ILLINOIS    | FED. AID PROJECT- |           |

\* 05-00174-00-BT



PLAN  
NTS



PROPOSED PIPE PROFILE  
NTS

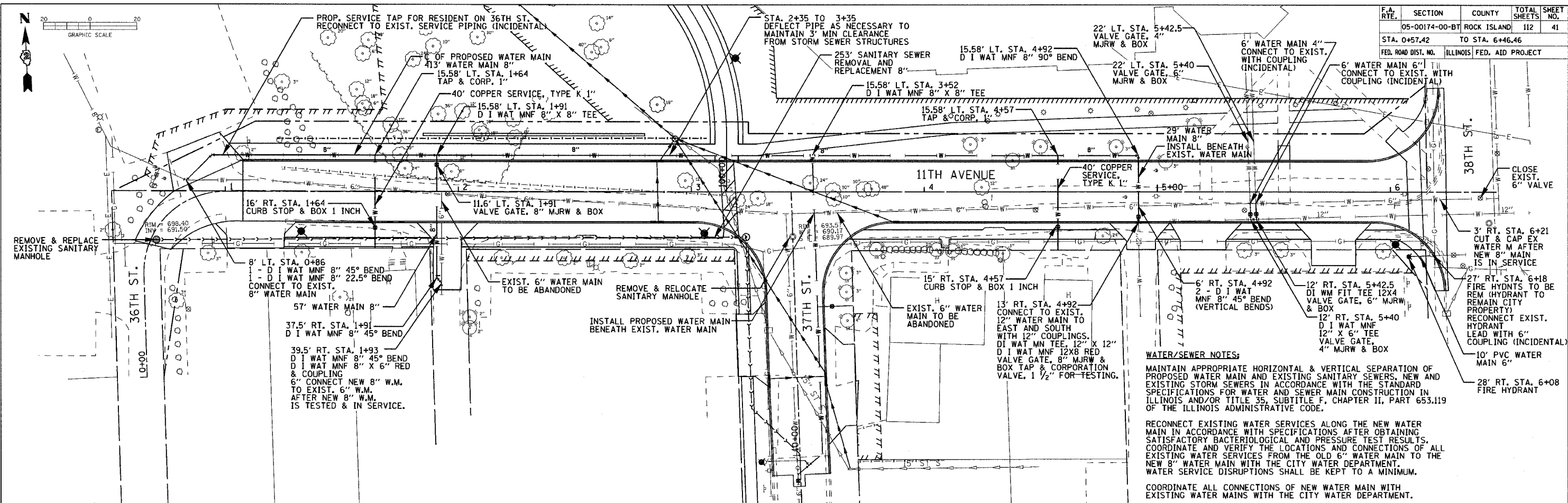
GENERAL NOTES:

- REMOVE WOODY / ORGANIC DEBRIS FROM ERODED TRENCH UNDER EXISTING CMP
- CONNECT 15" CMP ELBOW TO EXISTING DAYLIGHTED CMP AND INSTALL NEW 15" CMP AS SHOWN IN PROFILE
- STABILIZE PIPE INSTALLATION AND BACKFILL WITH CONTROLLED LOW-STRENGTH MATERIAL (CLSM) MIX 3, PER SECTION 1019 IN THE STANDARD SPEC. IL.D.O.T, TO APPROXIMATE ELEVATION SHOWN
- BACKFILL WITH SOIL MATERIAL COMPACTED TO 90% STD PROCTOR TO APPROXIMATE PROFILE

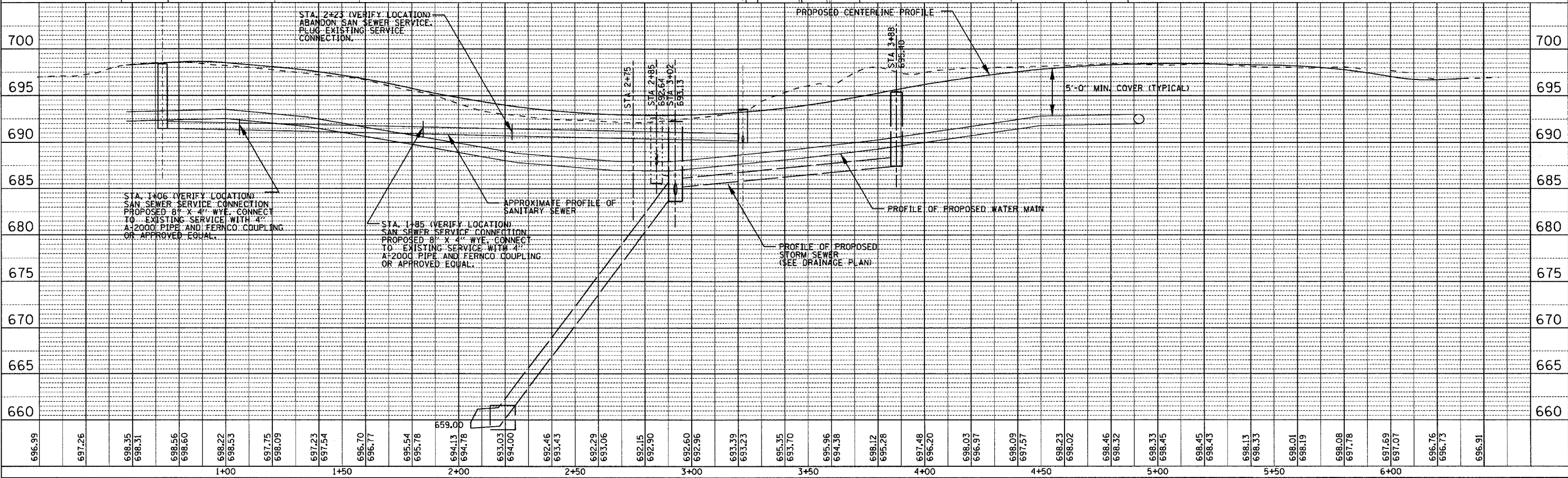
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| DESIGNED | MHM |
| CHECKED  | JBF |
| DRAWN    | RAP |
| CHECKED  | JBF |



| F.A. RTE.           | SECTION         | COUNTY           | TOTAL SHEETS | SHEET NO. |
|---------------------|-----------------|------------------|--------------|-----------|
| 05-00174-00-BT      | ROCK ISLAND     | 112              | 41           |           |
| STA. 0+57.42        | TO STA. 6+46.46 |                  |              |           |
| FED. ROAD DIST. NO. | ILLINOIS        | FED. AID PROJECT |              |           |



**WATER/SEWER NOTES:**  
 MAINTAIN APPROPRIATE HORIZONTAL & VERTICAL SEPARATION OF PROPOSED WATER MAIN AND EXISTING SANITARY SEWERS, NEW AND EXISTING STORM SEWERS IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS AND/OR TITLE 35, SUBTITLE F, CHAPTER II, PART 653.119 OF THE ILLINOIS ADMINISTRATIVE CODE.  
 RECONNECT EXISTING WATER SERVICES ALONG THE NEW WATER MAIN IN ACCORDANCE WITH SPECIFICATIONS AFTER OBTAINING SATISFACTORY BACTERIOLOGICAL AND PRESSURE TEST RESULTS. COORDINATE AND VERIFY THE LOCATIONS AND CONNECTIONS OF ALL EXISTING WATER SERVICES FROM THE OLD 6" WATER MAIN TO THE NEW 8" WATER MAIN WITH THE CITY WATER DEPARTMENT. WATER SERVICE DISRUPTIONS SHALL BE KEPT TO A MINIMUM.  
 COORDINATE ALL CONNECTIONS OF NEW WATER MAIN WITH EXISTING WATER MAINS WITH THE CITY WATER DEPARTMENT.



**11TH AVENUE UTILITY PLANS STA 0+57.42 TO 6+46.46**

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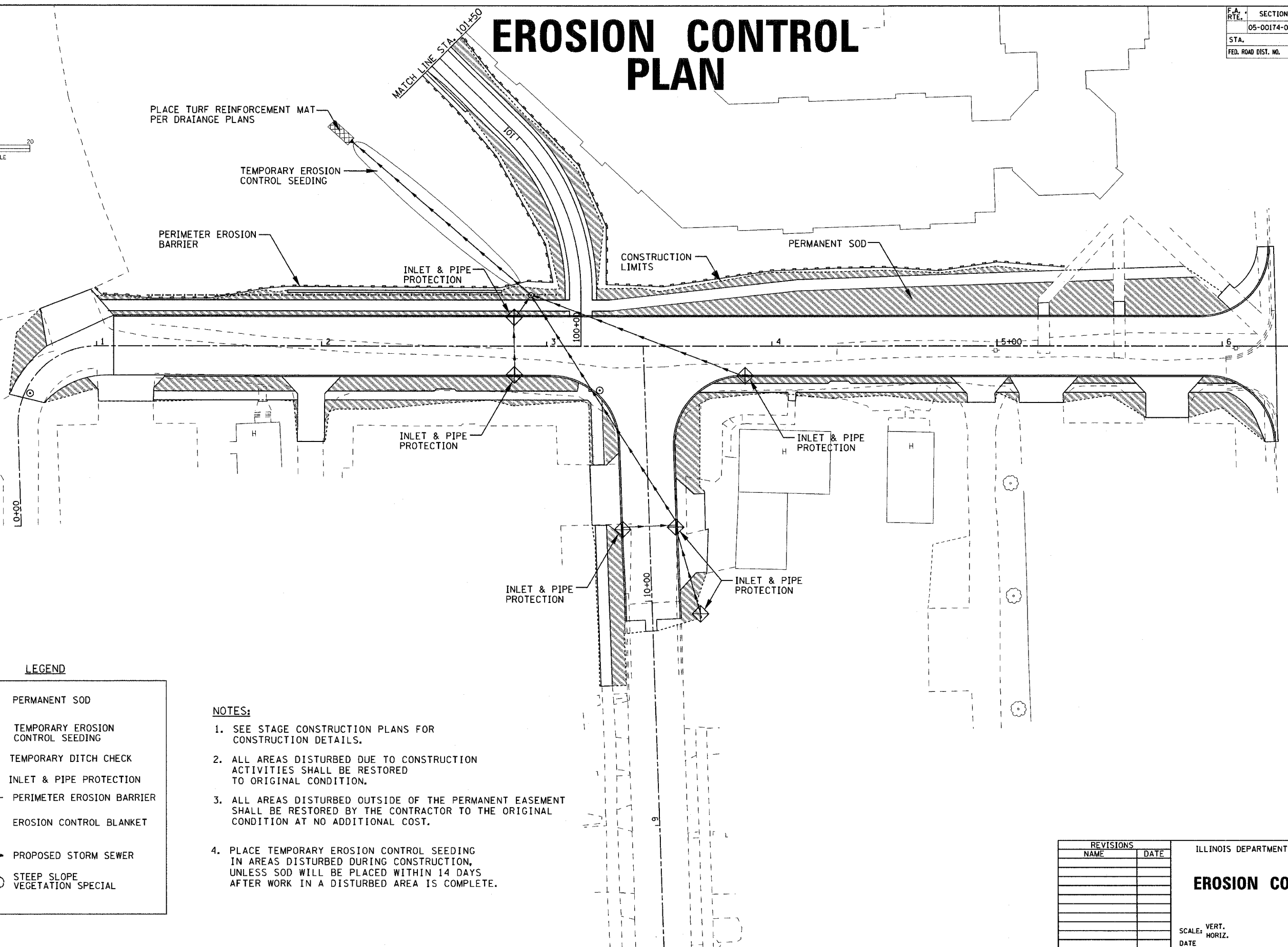
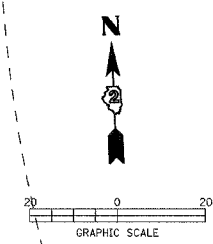
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PLOT DATE = #DATE#  
 FILE NAME = #FILE#  
 PLOT SCALE = #SCALE#  
 USER NAME = #USER#



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| F.A. RTE.           | SECTION                   | COUNTY      | TOTAL SHEETS | SHEET NO. |
|                     | 05-00174-00-BT            | ROCK ISLAND | 112          | 43        |
| STA.                | TO STA.                   |             |              |           |
| FED. ROAD DIST. NO. | ILLINOIS FED. AID PROJECT |             |              |           |

# EROSION CONTROL PLAN



**LEGEND**

|  |                                   |
|--|-----------------------------------|
|  | PERMANENT SOD                     |
|  | TEMPORARY EROSION CONTROL SEEDING |
|  | TEMPORARY DITCH CHECK             |
|  | INLET & PIPE PROTECTION           |
|  | PERIMETER EROSION BARRIER         |
|  | EROSION CONTROL BLANKET           |
|  | PROPOSED STORM SEWER              |
|  | STEEP SLOPE VEGETATION SPECIAL    |

**NOTES:**

1. SEE STAGE CONSTRUCTION PLANS FOR CONSTRUCTION DETAILS.
2. ALL AREAS DISTURBED DUE TO CONSTRUCTION ACTIVITIES SHALL BE RESTORED TO ORIGINAL CONDITION.
3. ALL AREAS DISTURBED OUTSIDE OF THE PERMANENT EASEMENT SHALL BE RESTORED BY THE CONTRACTOR TO THE ORIGINAL CONDITION AT NO ADDITIONAL COST.
4. PLACE TEMPORARY EROSION CONTROL SEEDING IN AREAS DISTURBED DURING CONSTRUCTION, UNLESS SOD WILL BE PLACED WITHIN 14 DAYS AFTER WORK IN A DISTURBED AREA IS COMPLETE.

| REVISIONS |      |
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| NAME      | DATE |
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ILLINOIS DEPARTMENT OF TRANSPORTATION

## EROSION CONTROL PLAN

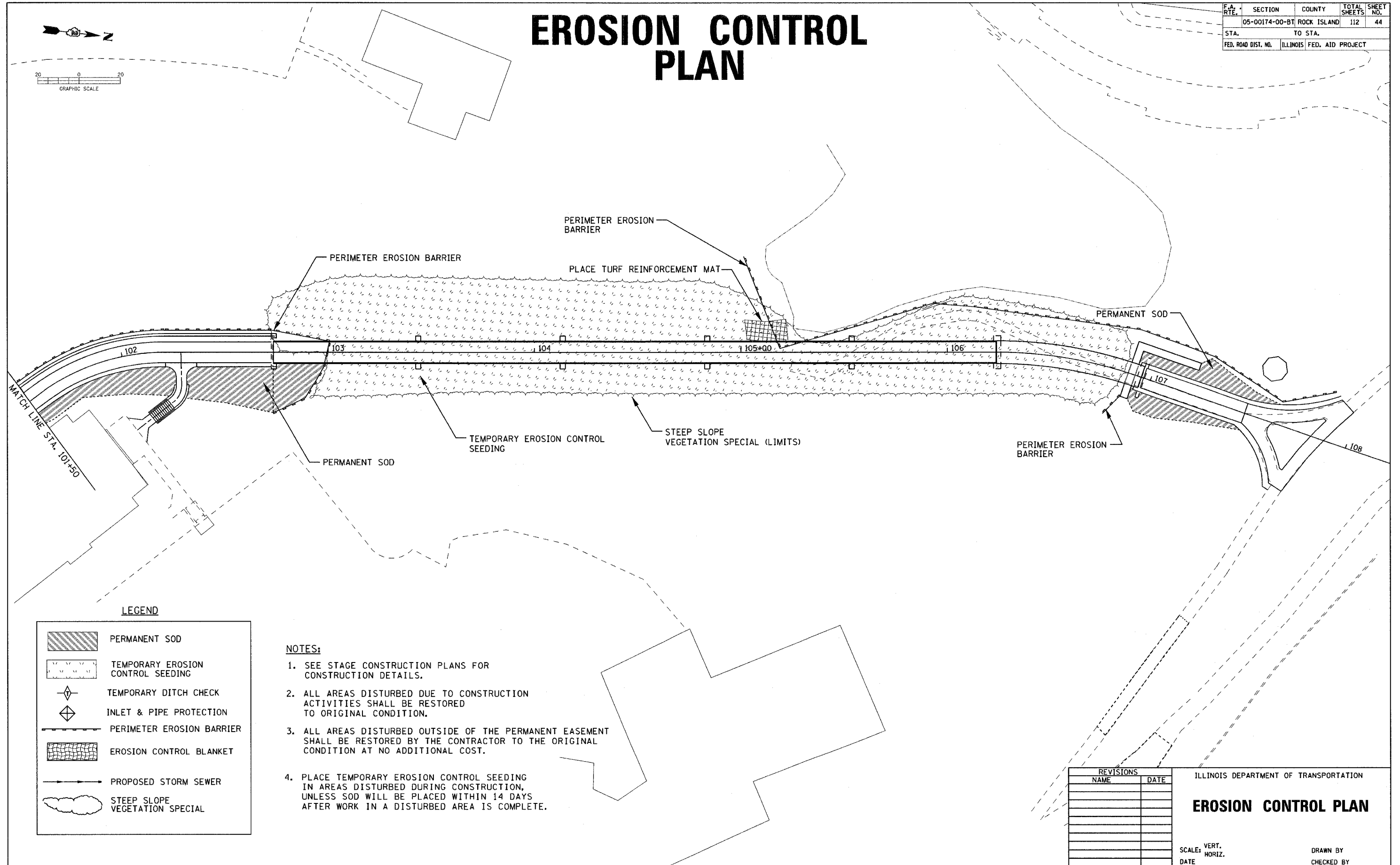
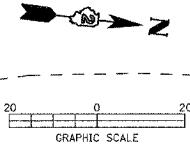
SCALE: VERT.  
DATE:                      HORIZ.

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PLOT SCALE \* SCALE \*  
USER NAME \* USER#

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| F.A. RTE.           | SECTION                   | COUNTY      | TOTAL SHEETS | SHEET NO. |
|                     | 05-00174-00-BT            | ROCK ISLAND | 112          | 44        |
| STA.                | TO STA.                   |             |              |           |
| FED. ROAD DIST. NO. | ILLINOIS FED. AID PROJECT |             |              |           |

# EROSION CONTROL PLAN



**LEGEND**

|  |                                   |
|--|-----------------------------------|
|  | PERMANENT SOD                     |
|  | TEMPORARY EROSION CONTROL SEEDING |
|  | TEMPORARY DITCH CHECK             |
|  | INLET & PIPE PROTECTION           |
|  | PERIMETER EROSION BARRIER         |
|  | EROSION CONTROL BLANKET           |
|  | PROPOSED STORM SEWER              |
|  | STEEP SLOPE VEGETATION SPECIAL    |

**NOTES:**

1. SEE STAGE CONSTRUCTION PLANS FOR CONSTRUCTION DETAILS.
2. ALL AREAS DISTURBED DUE TO CONSTRUCTION ACTIVITIES SHALL BE RESTORED TO ORIGINAL CONDITION.
3. ALL AREAS DISTURBED OUTSIDE OF THE PERMANENT EASEMENT SHALL BE RESTORED BY THE CONTRACTOR TO THE ORIGINAL CONDITION AT NO ADDITIONAL COST.
4. PLACE TEMPORARY EROSION CONTROL SEEDING IN AREAS DISTURBED DURING CONSTRUCTION, UNLESS SOD WILL BE PLACED WITHIN 14 DAYS AFTER WORK IN A DISTURBED AREA IS COMPLETE.

| REVISIONS |      |
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| NAME      | DATE |
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ILLINOIS DEPARTMENT OF TRANSPORTATION

**EROSION CONTROL PLAN**

SCALE: VERT.  
HORIZ.  
DATE

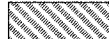
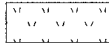





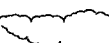
DRAWN BY  
CHECKED BY

PLOT DATE \*  
FILE NAME \*  
PLOT SCALE \*  
USER NAME \*

|                     |                |                  |              |           |
|---------------------|----------------|------------------|--------------|-----------|
| F.A. RTE.           | SECTION        | COUNTY           | TOTAL SHEETS | SHEET NO. |
|                     | 05-00174-00-BT | ROCK ISLAND      | 112          | 45        |
| STA.                | TO STA.        |                  |              |           |
| FED. ROAD DIST. NO. | ILLINOIS       | FED. AID PROJECT |              |           |

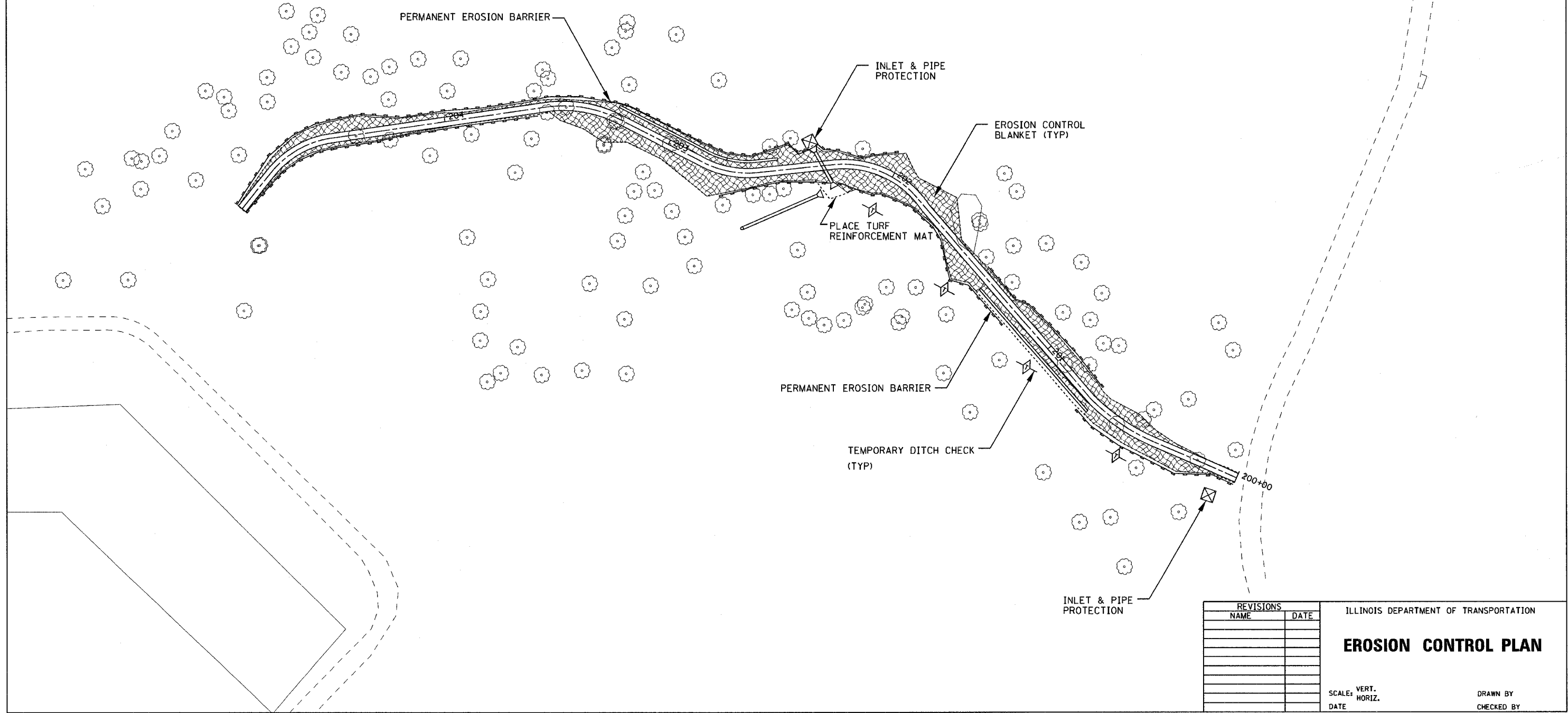
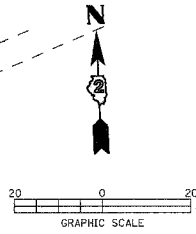
# EROSION CONTROL PLAN

## LEGEND

|   |                                   |
|---|-----------------------------------|
|  | PERMANENT SOD                     |
|  | TEMPORARY EROSION CONTROL SEEDING |
|  | TEMPORARY DITCH CHECK             |
|  | INLET & PIPE PROTECTION           |
|  | PERIMETER EROSION BARRIER         |
|  | EROSION CONTROL BLANKET           |
|  | PROPOSED STORM SEWER              |
|  | STEEP SLOPE VEGETATION SPECIAL    |

## NOTES:

1. SEE STAGE CONSTRUCTION PLANS FOR CONSTRUCTION DETAILS.
2. ALL AREAS DISTURBED DUE TO CONSTRUCTION ACTIVITIES SHALL BE RESTORED TO ORIGINAL CONDITION.
3. ALL AREAS DISTURBED OUTSIDE OF THE PERMANENT EASEMENT SHALL BE RESTORED BY THE CONTRACTOR TO THE ORIGINAL CONDITION AT NO ADDITIONAL COST.
4. PLACE TEMPORARY EROSION CONTROL SEEDING IN AREAS DISTURBED DURING CONSTRUCTION, UNLESS SOD WILL BE PLACED WITHIN 14 DAYS AFTER WORK IN A DISTURBED AREA IS COMPLETE.



PLOT DATE \* \* \* DATE \*  
 FILE NAME \* \* \* FILE \*  
 PLOT SCALE \* \* \* SCALE \*  
 USER NAME \* \* \* USER \*

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ILLINOIS DEPARTMENT OF TRANSPORTATION

## EROSION CONTROL PLAN

SCALE: VERT. \_\_\_\_\_  
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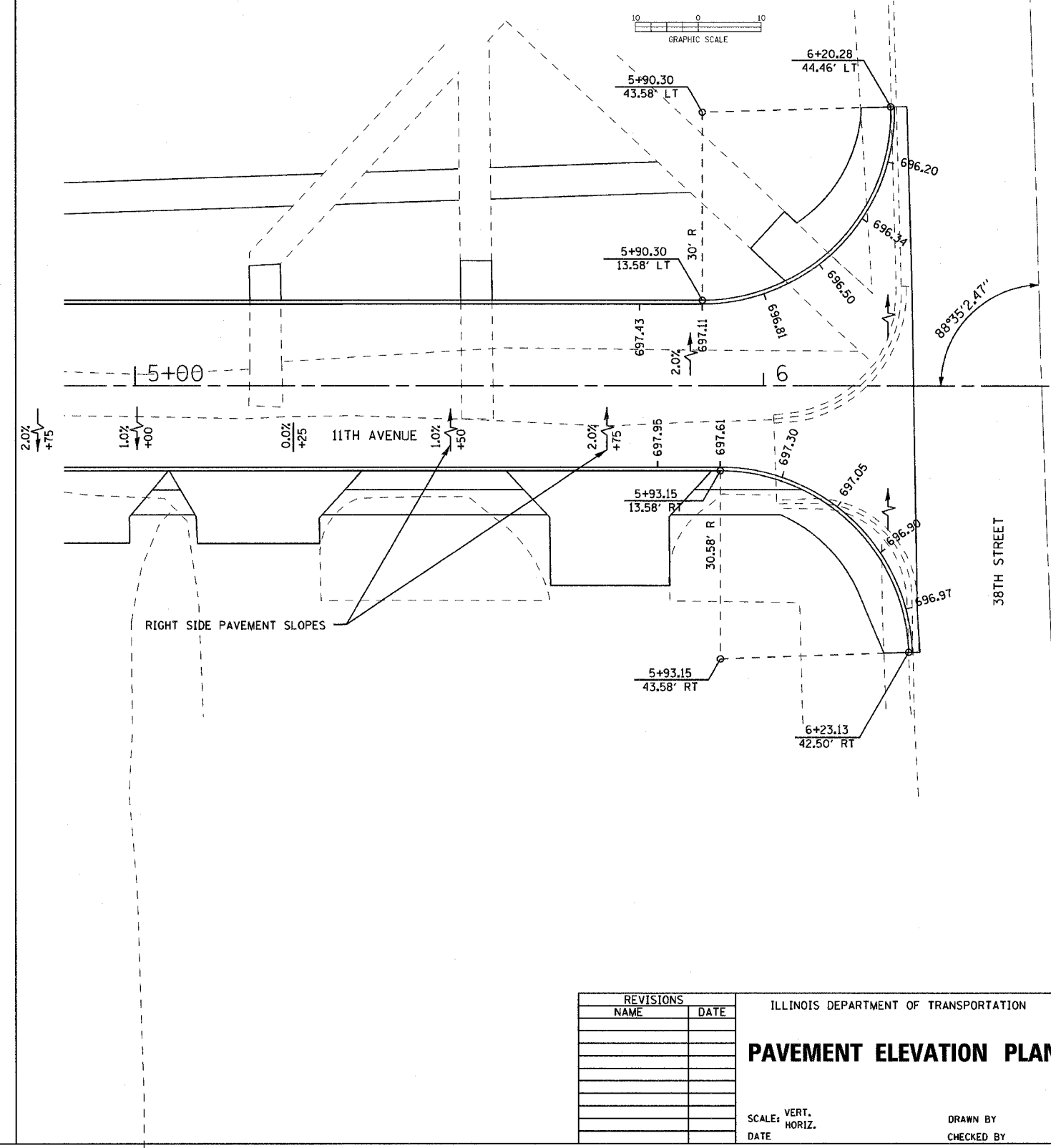
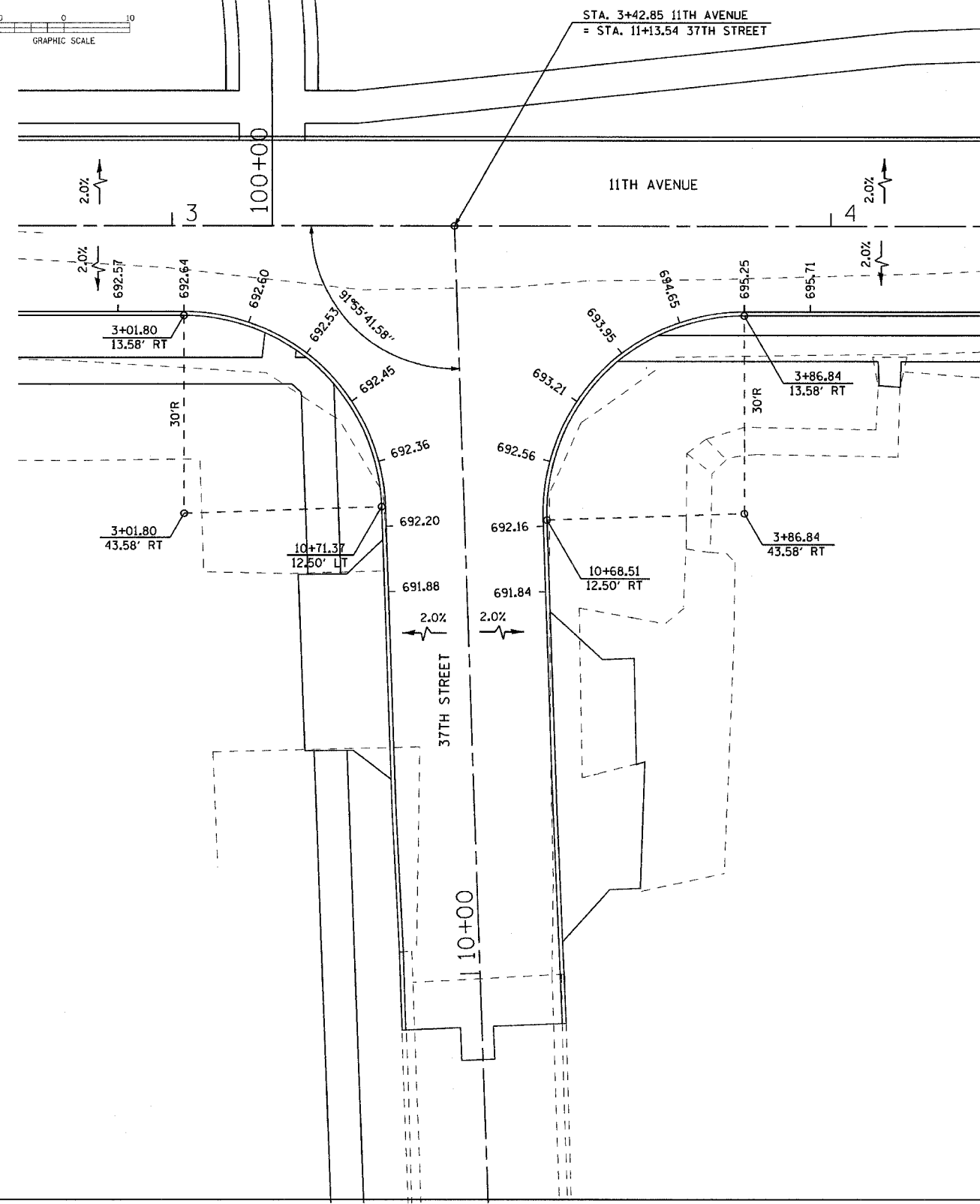
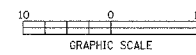
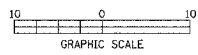
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| F.A. RTE.           | SECTION                   | COUNTY      | TOTAL SHEETS | SHEET NO. |
|                     | 05-00174-00-BT            | ROCK ISLAND | 112          | 47        |
| STA.                | TO STA.                   |             |              |           |
| FED. ROAD DIST. NO. | ILLINOIS FED. AID PROJECT |             |              |           |

# PAVEMENT ELEVATION PLAN



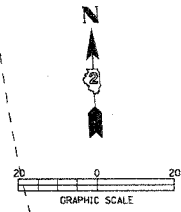
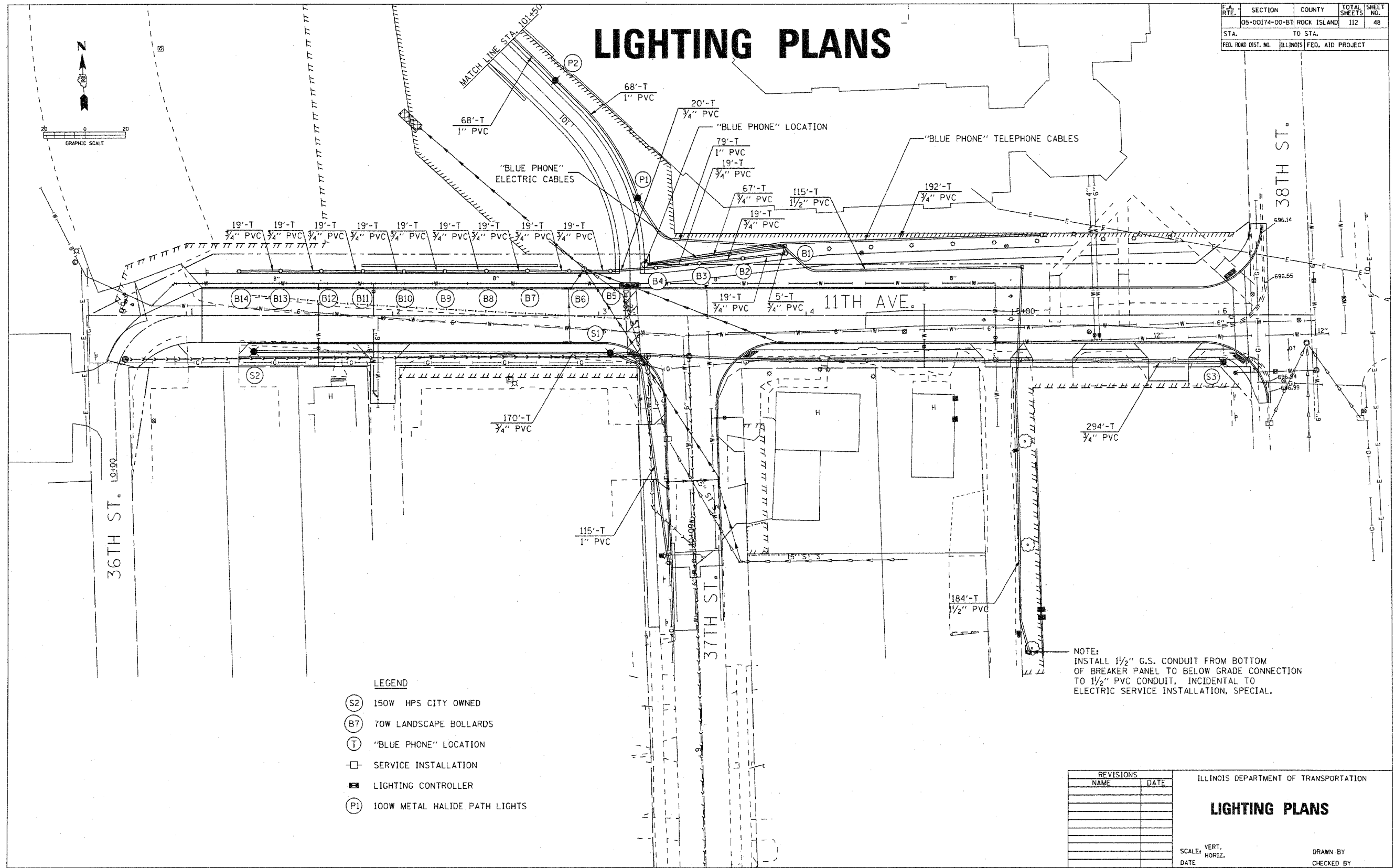
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 FILE NAME \* FILEL\*  
 PLOT SCALE \* SCALE\*  
 USER NAME \* USER\*

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ILLINOIS DEPARTMENT OF TRANSPORTATION  
**PAVEMENT ELEVATION PLAN**  
 SCALE: VERT. DATE  
 HORIZ. DATE  
 DRAWN BY  
 CHECKED BY

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| F.A. RTE.           | SECTION                   | COUNTY      | TOTAL SHEETS | SHEET NO. |
|                     | 05-00174-00-BT            | ROCK ISLAND | 112          | 48        |
| STA.                | TO STA.                   |             |              |           |
| FED. ROAD DIST. NO. | ILLINOIS FED. AID PROJECT |             |              |           |

# LIGHTING PLANS



- LEGEND**
- (S2) 150W HPS CITY OWNED
  - (B7) 70W LANDSCAPE BOLLARDS
  - (T) "BLUE PHONE" LOCATION
  - SERVICE INSTALLATION
  - LIGHTING CONTROLLER
  - (P1) 100W METAL HALIDE PATH LIGHTS

NOTE:  
INSTALL 1/2" G.S. CONDUIT FROM BOTTOM OF BREAKER PANEL TO BELOW GRADE CONNECTION TO 1/2" PVC CONDUIT, INCIDENTAL TO ELECTRIC SERVICE INSTALLATION, SPECIAL.

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ILLINOIS DEPARTMENT OF TRANSPORTATION

## LIGHTING PLANS

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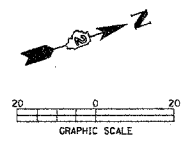
DRAWN BY: CHECKED BY:

PLOT DATE: 04/01/08  
 FILE NAME: 05-00174-00-BT-01.dwg  
 USER: J. WILSON  
 USER NAME: J. WILSON



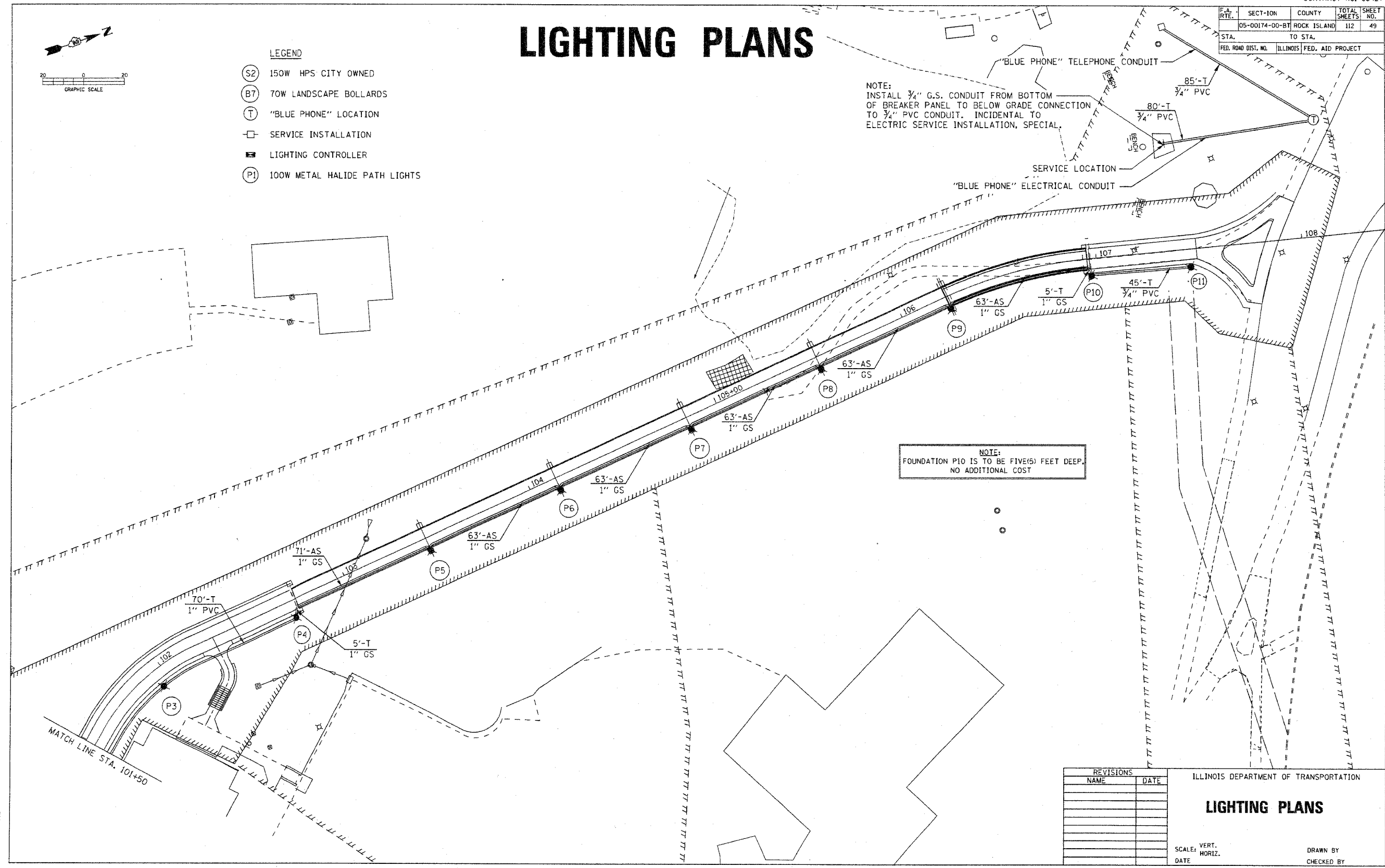
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| F.A. RTE.      | SECT-ION    | COUNTY  | TOTAL SHEETS | SHEET NO. |
| 05-00174-00-BT | ROCK ISLAND | ILLINOIS                                      | 112          | 49        |
| STA. TO STA.   |             | FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT |              |           |

# LIGHTING PLANS



- LEGEND**
- (S2) 150W HPS CITY OWNED
  - (B7) 70W LANDSCAPE BOLLARDS
  - (T) "BLUE PHONE" LOCATION
  - SERVICE INSTALLATION
  - ▣ LIGHTING CONTROLLER
  - (P1) 100W METAL HALIDE PATH LIGHTS

NOTE:  
INSTALL 3/4" G.S. CONDUIT FROM BOTTOM OF BREAKER PANEL TO BELOW GRADE CONNECTION TO 3/4" PVC CONDUIT. INCIDENTAL TO ELECTRIC SERVICE INSTALLATION, SPECIAL.



NOTE:  
FOUNDATION P10 IS TO BE FIVE(5) FEET DEEP.  
NO ADDITIONAL COST

PLANT DATE \* DATE  
FILE NAME \* FILE  
DRAWN BY \* NAME  
CHECKED BY \* NAME

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ILLINOIS DEPARTMENT OF TRANSPORTATION

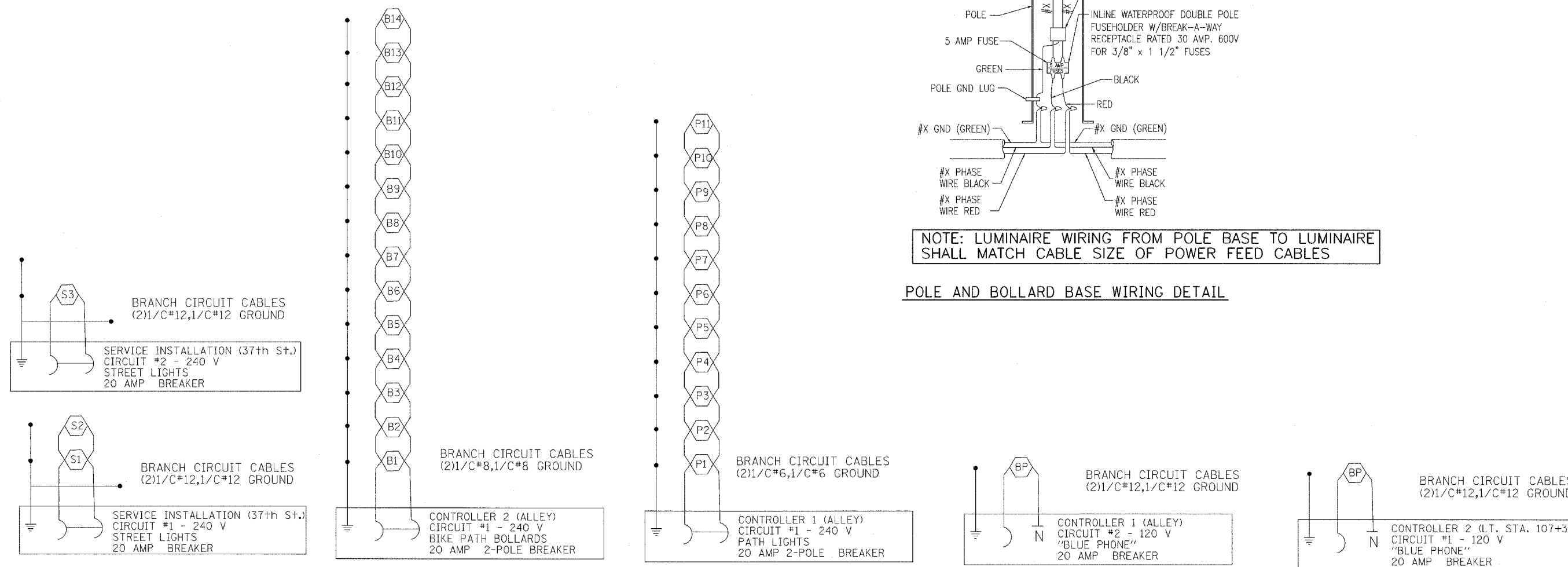
## LIGHTING PLANS

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|                     | 05-00174-00-BT            | ROCK ISLAND | 112          | 50        |
| STA.                | TO STA.                   |             |              |           |
| FED. ROAD DIST. NO. | ILLINOIS FED. AID PROJECT |             |              |           |

# LIGHTING PLANS



NOTE: LUMINAIRE WIRING FROM POLE BASE TO LUMINAIRE SHALL MATCH CABLE SIZE OF POWER FEED CABLES

NOTE: THE #12 CABLE FROM THE SERVICE INSTALLATION AT 37TH ST. TO THE LIGHT AT 38TH ST. (S3) IS A HOMERUN CABLE.

NOTE: THE #8 GROUND CABLE SHALL BE SPLICED IN THE HANDHOLE LEFT STA. 3+90 AND AN INDIVIDUAL #8 GROUND CABLE INSTALLED TO THE "BLUE PHONE" CIRCUIT, THE BOLLARD CIRCUIT AND THE PATH LIGHT CIRCUIT.

DATE  
FILE NAME  
PLOT SCALE  
USER NAME

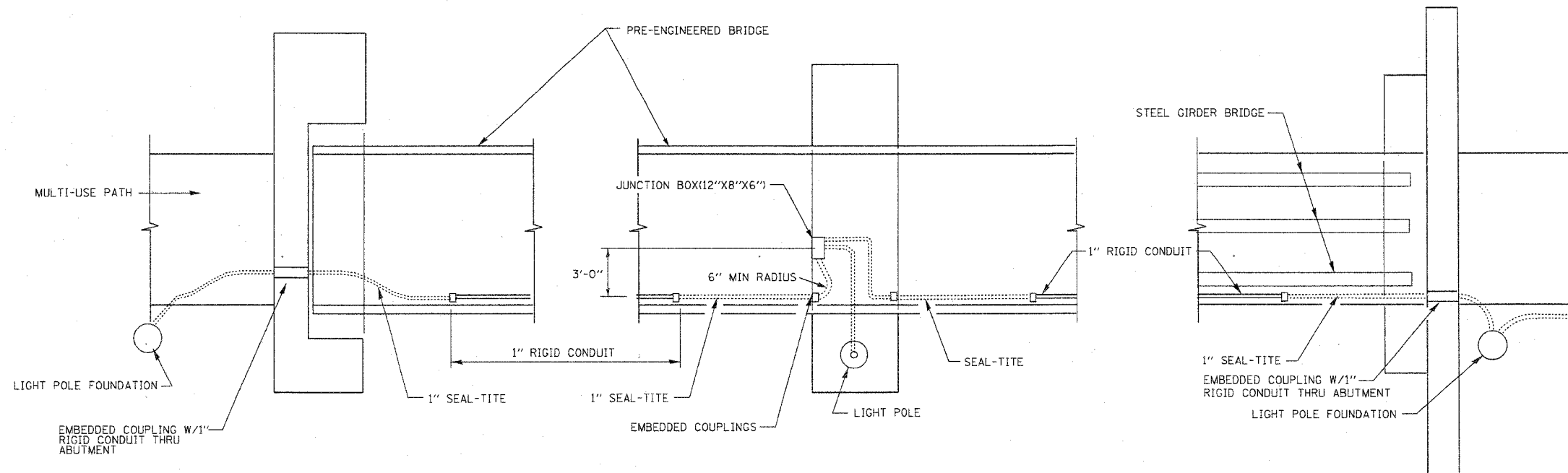
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| NAME      | DATE |                                       |
|           |      | <b>CIRCUIT DIAGRAMS</b>               |
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| F.A. RTE.           | SECT-ION                  | COUNTY      | TOTAL SHEETS | SHEET NO. |
|                     | 05-00174-00-BY            | ROCK ISLAND | 112          | 51        |
| STA.                | TO STA.                   |             |              |           |
| FED. ROAD DIST. NO. | ILLINOIS FED. AID PROJECT |             |              |           |

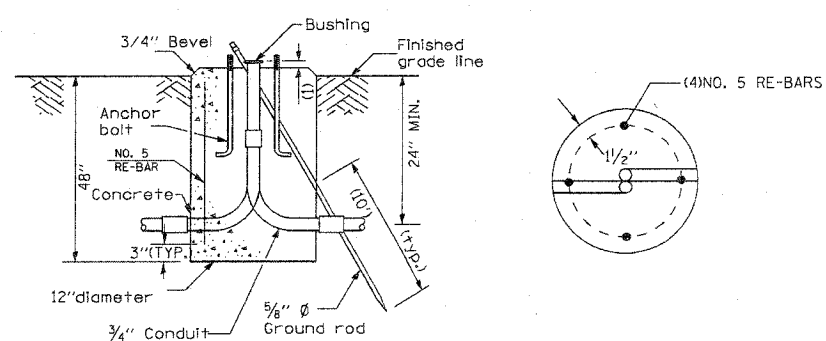
# LIGHTING PLANS



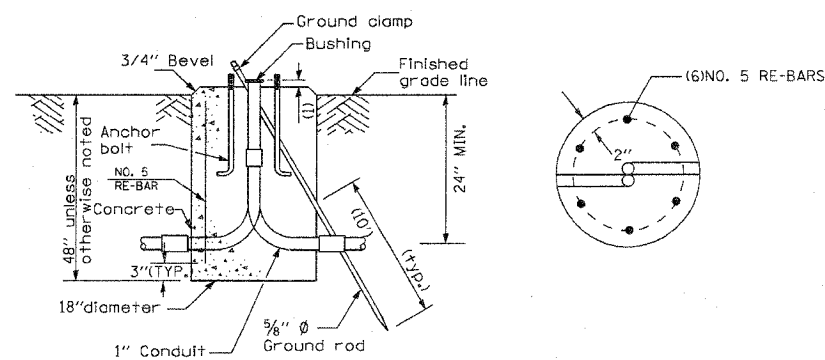
**SOUTH ABUTMENT SCHEMATIC PLAN**  
 PAY ITEM ("BRIDGE ABUTMENT LIGHTING CONDUIT")

**TYPICAL PIER SCHEMATIC PLAN**  
 (PAY ITEM "BRIDGE PIER LIGHTING CONDUIT")

**NORTH ABUTMENT SCHEMATIC PLAN**  
 PAY ITEM ("BRIDGE ABUTMENT LIGHTING CONDUIT")



**LIGHT POLE FOUNDATION**



**LIGHT POLE FOUNDATION (SPECIAL)**

| REVISIONS |      |
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ILLINOIS DEPARTMENT OF TRANSPORTATION

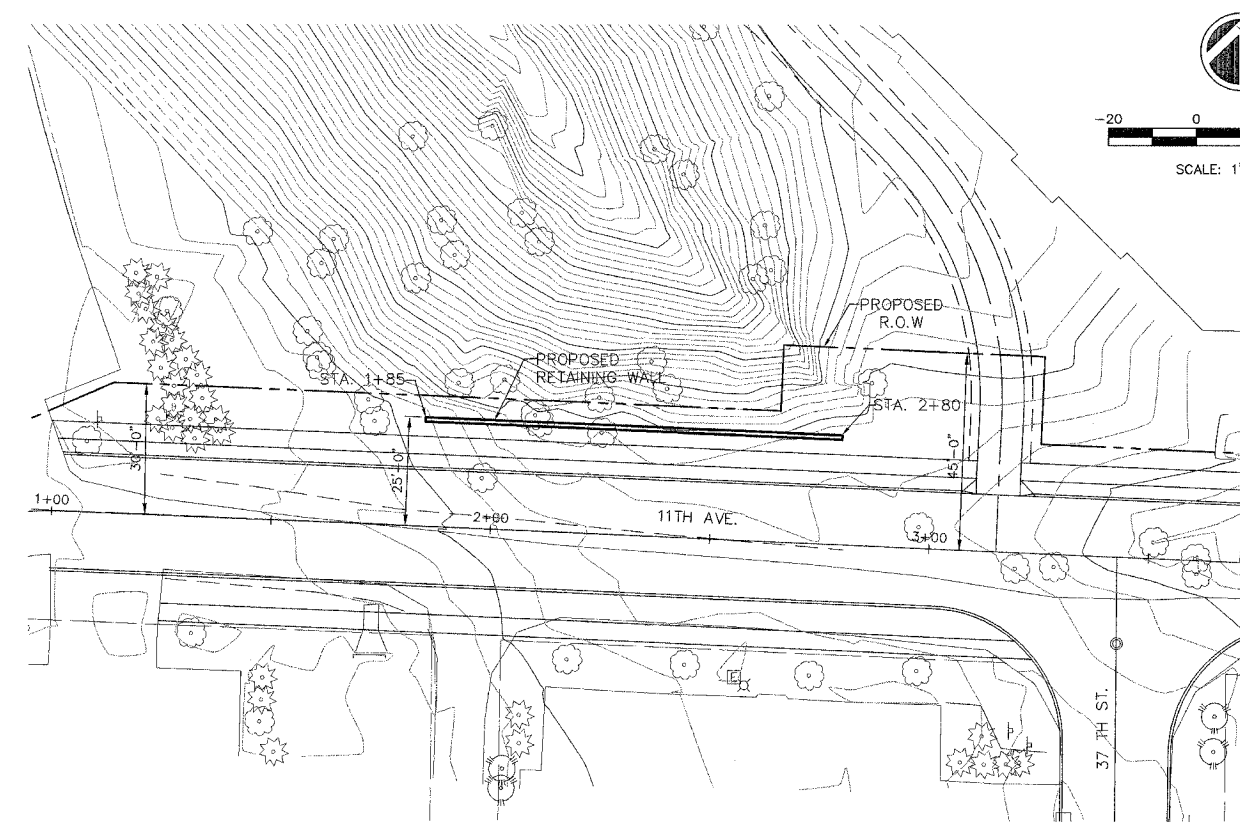
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 DATE

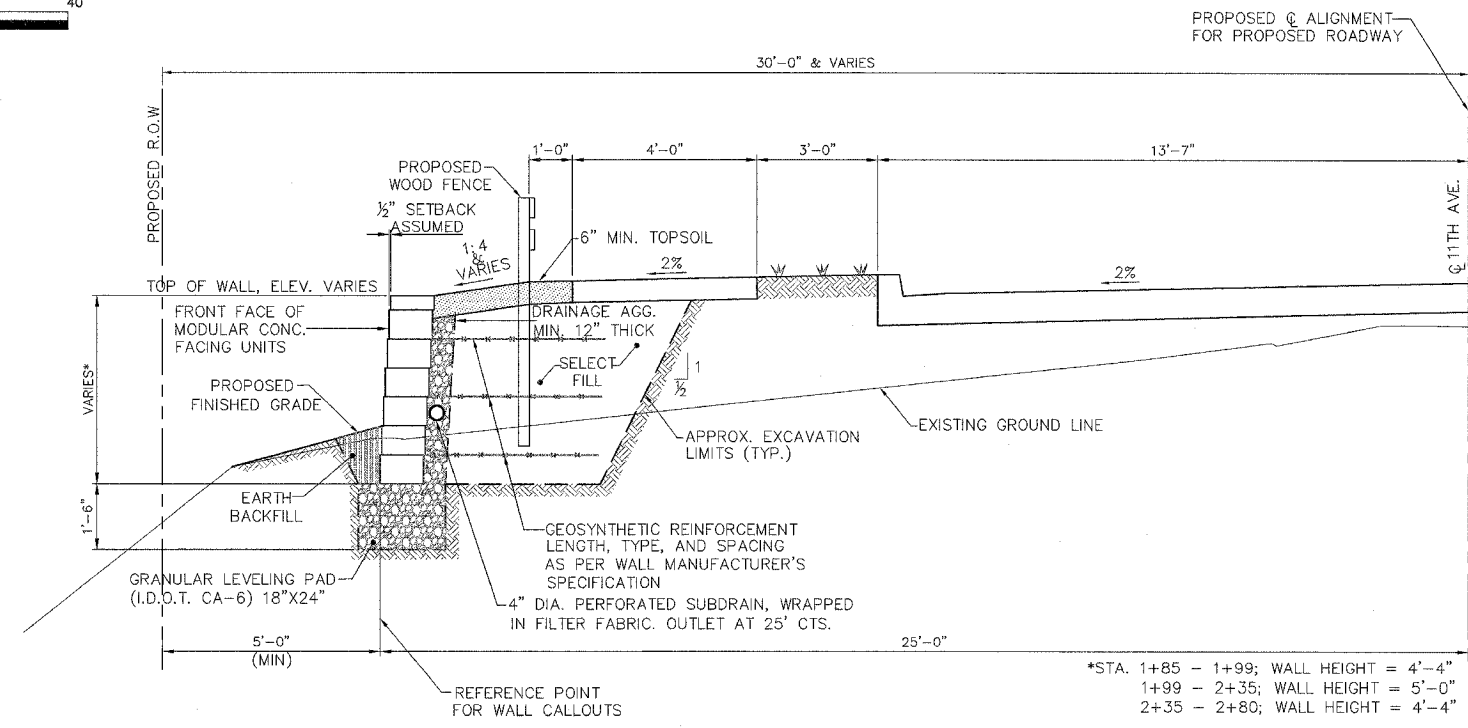
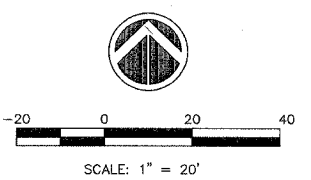
DRAWN BY  
 CHECKED BY

PLT: DJE  
 DATE: 10/20/05  
 FILE NAME: 05-00174-00-BY-051  
 PLOT SCALE: 1/8"=1'-0"  
 USER: DJE

| Route No.             | SECTION  | COUNTY      | TOTAL SHEETS | SHEET NO. |
|-----------------------|----------|-------------|--------------|-----------|
| 05-00174-00-BT        |          | Rock Island | 112          | 52        |
| Sta.                  | To Sta.  |             |              |           |
| FED. ROAD DIST. NO. 7 | ILLINOIS |             |              |           |



**PLAN-RETAINING WALL**  
SCALE 1" = 20'



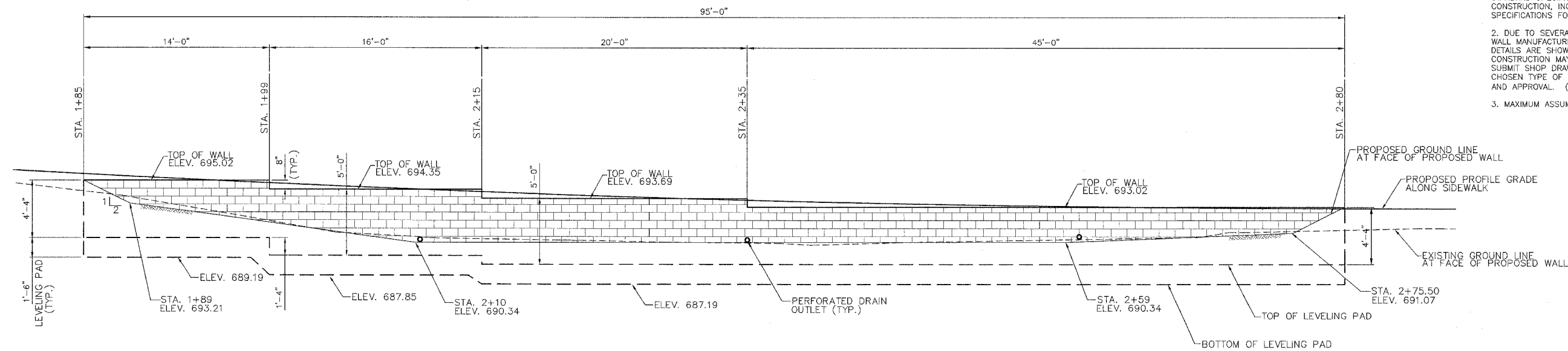
**SECTION-RETAINING WALL**  
SCALE 1/4" = 1'-0"

\*STA. 1+85 - 1+99; WALL HEIGHT = 4'-4"  
1+99 - 2+35; WALL HEIGHT = 5'-0"  
2+35 - 2+80; WALL HEIGHT = 4'-4"

**BILL OF MATERIAL**

|                               |        |     |
|-------------------------------|--------|-----|
| SEGMENTAL CONCRETE BLOCK WALL | SQ.FT. | 436 |
|-------------------------------|--------|-----|

- GENERAL NOTES:**
1. THE CONTRACTOR SHALL COMPLY WITH THE ILLINOIS DEPARTMENT OF TRANSPORTATION (I.D.O.T.), 2007 STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, INCLUDING ALL SUPPLEMENTAL SPECIFICATIONS FOR THIS PROJECT.
  2. DUE TO SEVERAL ACCEPTABLE SEGMENTAL BLOCK WALL MANUFACTURERS AVAILABLE, GENERAL WALL DETAILS ARE SHOWN ON THE PLANS. BEFORE CONSTRUCTION MAY BEGIN, THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS AND CALCULATIONS FOR CHOSEN TYPE OF WALL TO THE ENGINEER FOR REVIEW AND APPROVAL. (SEE SPECIAL PROVISIONS).
  3. MAXIMUM ASSUMED BEARING CAPACITY = 2,500 psf.



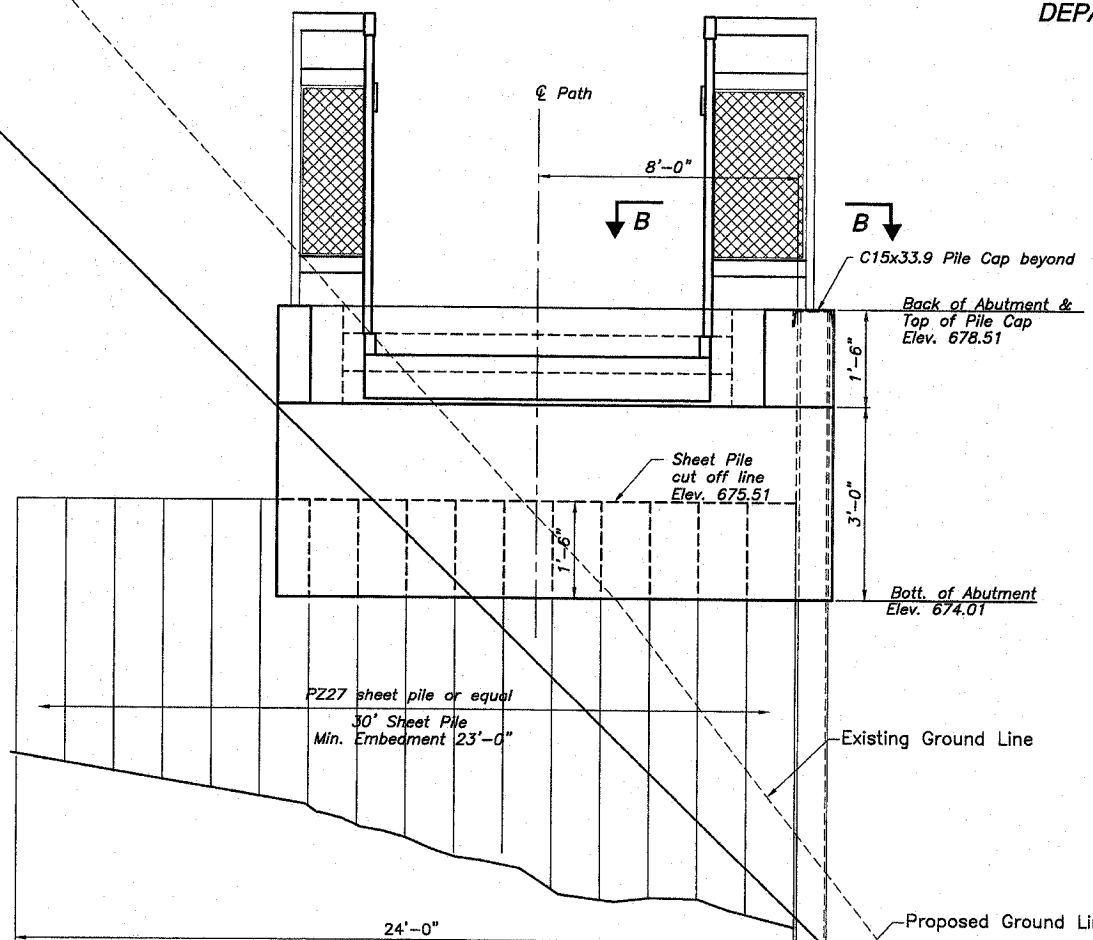
**ELEVATION-RETAINING WALL**  
SCALE 1/4" = 1'-0"

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| DESIGNED | MHM |
| CHECKED  | JBF |
| DRAWN    | RAP |
| CHECKED  | JBF |

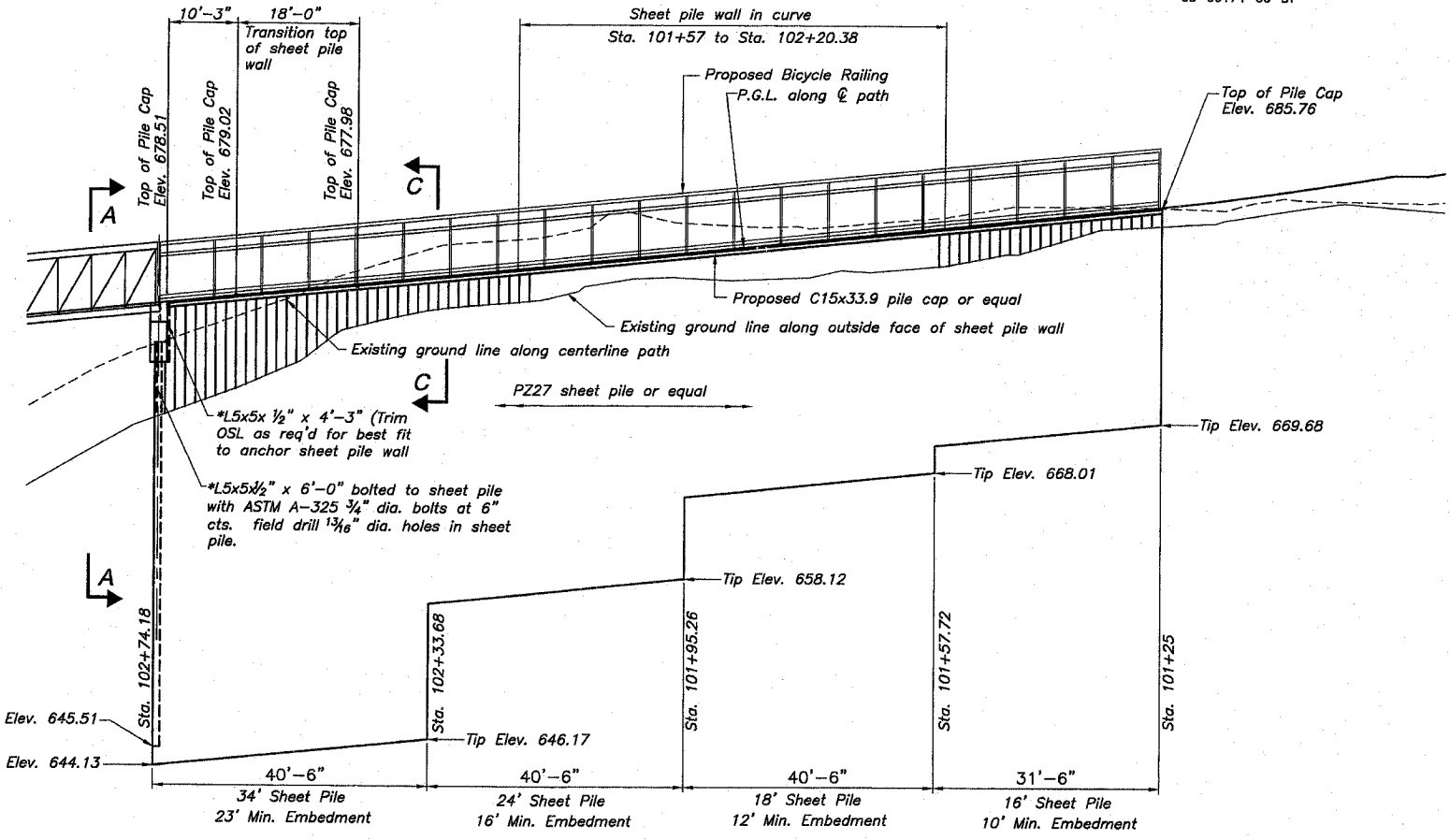
**RETAINING WALL**

| F.A. RTE.             | SECTION | COUNTY                    | TOTAL SHEETS | SHEET NO. |
|-----------------------|---------|---------------------------|--------------|-----------|
| *                     |         | ROCK ISLAND               | 112          | 53        |
| STA. 101+25 TO        |         | STA. 102+74.18            |              |           |
| FED. ROAD DIST. NO. Z |         | ILLINOIS FED. AID PROJECT |              |           |
| * 05-00174-00-BT      |         |                           |              |           |

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

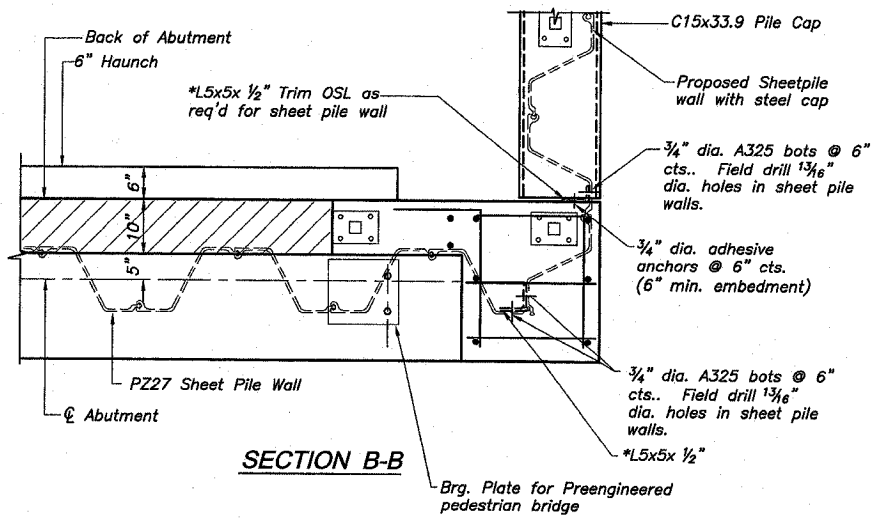


SECTION A-A

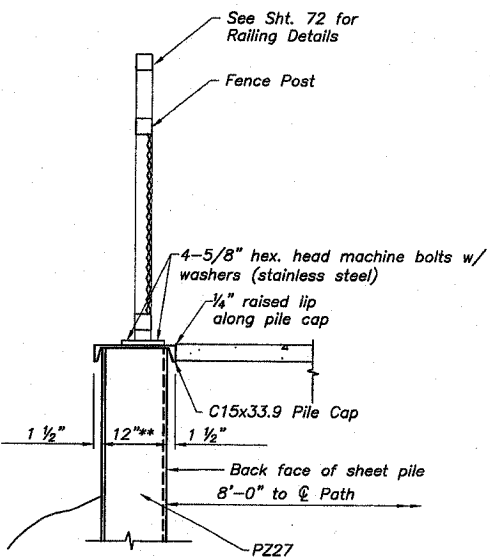


SHEET PILE WALL WEST ELEVATION  
Sta. 101+25 TO Sta. 102+74.18

\*Install angle to support end of sheet pile wall from deflecting. Angle shall be ASTM A-36 steel and shall be galvanized for corrosion protection. Cost of installation and treatment shall be included with "Furnishing and Erecting Structural Steel".



SECTION B-B



SECTION C-C

\*\*Nominal dim for PZ27 to be verified with actual sheet pile wall driven

General Notes:

- Contractor shall submit, for review and approval, shop drawings that detail fabrication erection, installation, ETC. of permanent steel sheet piling and pile caps.
- Adhesive anchors shall be IL. D.O.T. Approved with installation as per Manufacturer's specifications for 3,500 PSI concrete and minimum embedment of 6". Cost shall be included with "Furnishing and Erecting Structural Steel".
- Fasteners shall be 3/4" ASTM high strength bolts with heavy hex nuts and hardened washers. Hole size shall be 1 1/8". All hardware shall be galvanized according to AASHTO M 232.
- Permanent sheet pile shall meet requirements of ASTM A328. Sheet pile shall have an effective section modulus meeting or exceeding 25.5 in<sup>3</sup>/ft. Use of an alternative section is subject to approval of the engineer. See special provisions for additional information.
- The steel pile cap shall be painted according to Section 506 and the special provision CLEANING & PAINTING NEW METAL STRUCTURES, using the organic zinc rich primer/epoxy/urethane paint system. The color of the final finish coat for the cap shall be reddish brown, Munsell 2.5YR 3/4.

BILL OF MATERIAL

|  |         |       |
|--|---------|-------|
| Steel Sheet Piling                     | SQ. FT. | 4,340 |
| Bicycle Railing, Special               | FOOT    | 155   |
| Furnishing & Erecting Structural Steel | POUND   | 5,360 |

| REVISIONS |      |
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| NAME      | DATE |
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ILLINOIS DEPARTMENT OF TRANSPORTATION  
Augustana College Pedestrian Bridge  
Section 05-00174-00-BT  
Project No. HPP-4113-(001)  
City of Rock Island  
Rock Island County

SCALE: VERT. \_\_\_\_\_  
HORIZ. \_\_\_\_\_  
DATE \_\_\_\_\_

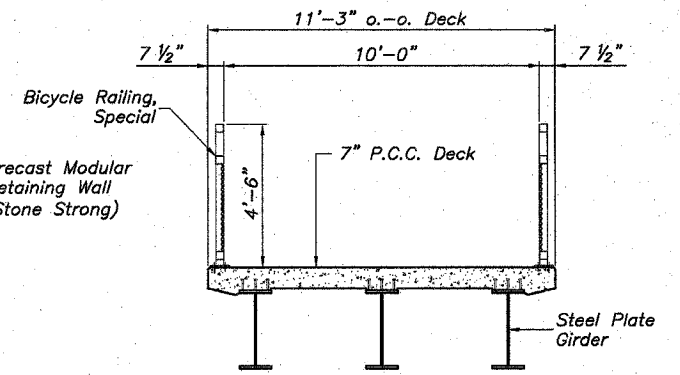
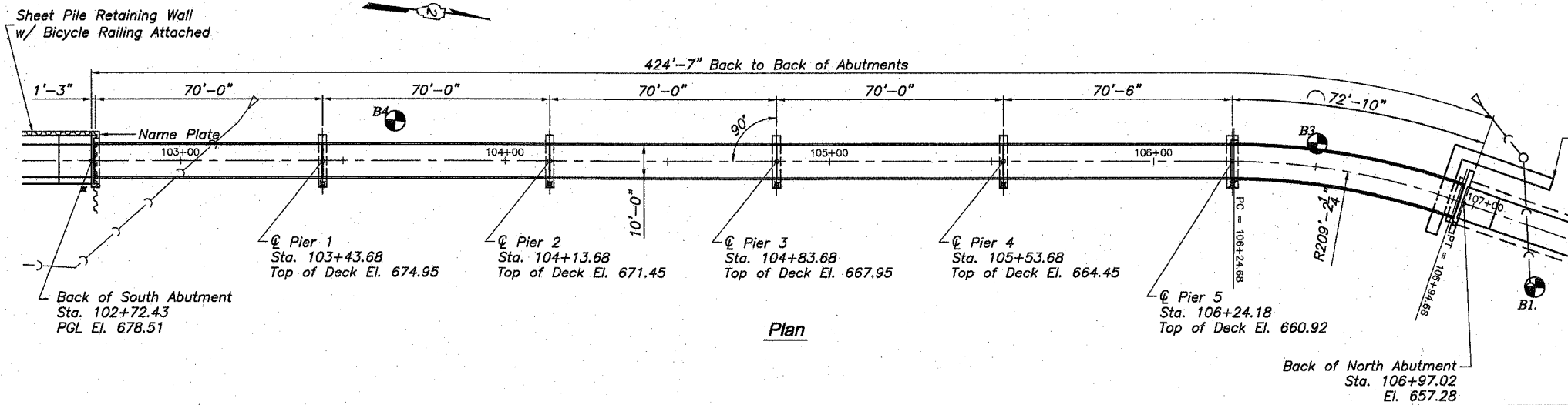
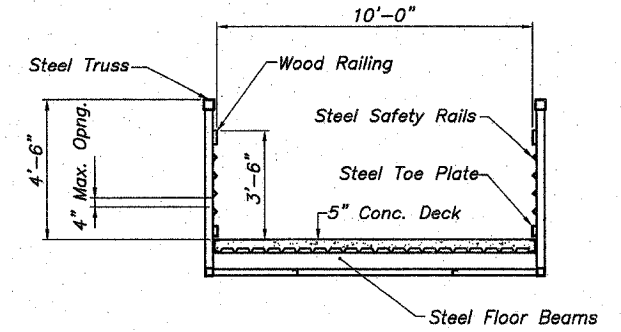
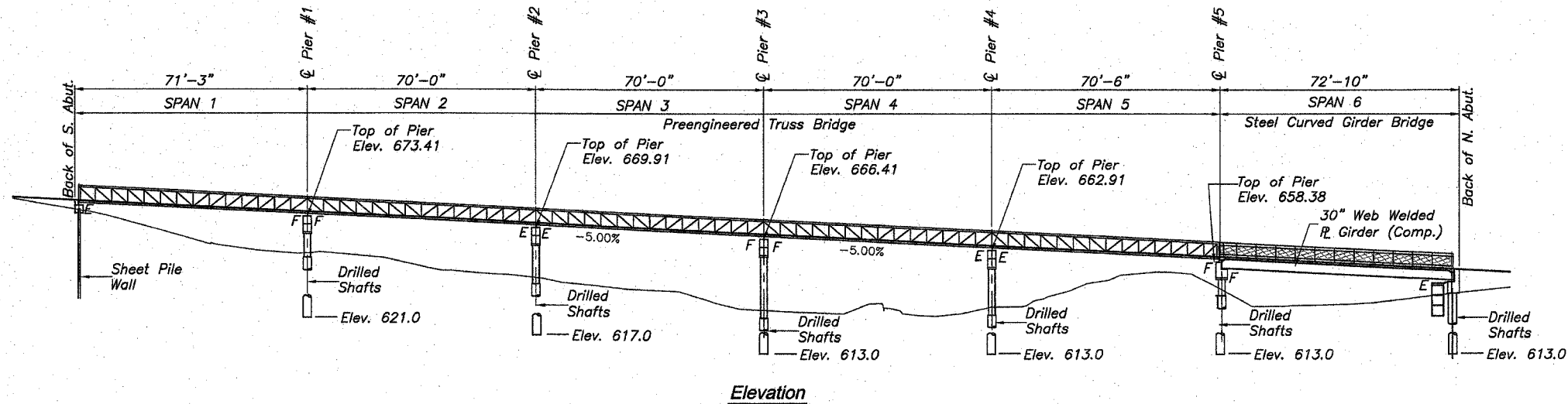
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CHECKED BY \_\_\_\_\_

Exp. 11-30-2008  
JOHN B. FELLMAN  
081-008167  
LICENSED  
STRUCTURAL  
ENGINEER  
STATE OF ILLINOIS  
John B. Fellman  
4-1-2008

**Benchmarks:** TBM-3 Chisled Square on Back of Curb, Located at the far West Corner of the Parking Lot, Just North of the West End of Swanson Hall.

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

| ROUTE NO.        | SECTION | COUNTY      | TOTAL SHEETS | SHEET NO. |
|------------------|---------|-------------|--------------|-----------|
| *                | *       | Rock Island | 112          | 54        |
| SHEET NO. 1      |         |             |              |           |
| 18 SHEETS        |         |             |              |           |
| * 05-00174-00-BT |         |             |              |           |



**Design Specifications**

- 2002 AASHTO Standard Specifications for Highway Bridges
- 1997 AASHTO Guide Specifications for Design of Pedestrian Bridges
- 2003 AASHTO Guide Specifications for Horizontally Curved Steel Girder Bridges

**Loading**

- 85 psf Uniform Live Load (Pedestrian)
- 35 psf Wind Loading
- H-5 Truck Loading

**Design Stresses**

- $f'_c = 3,500$  psi (Concrete)
- $f_y = 60,000$  psi (Reinforcement)
- $f_y = 50,000$  psi (Structural Steel Tubing), ASTM A500, Grade C
- $f_y = 50,000$  psi (Other Structural Steel Shapes, Plate and Bars), AASHTO M270, Grade 50

|          |     |
|----------|-----|
| DESIGNED | LRT |
| CHECKED  | JBF |
| DRAWN    | RAP |
| CHECKED  | JBF |

APPROVED  
For Structural Adequacy Only.

Michael J. Haley 3-20-2008  
Lin Engineering, Ltd. Consulting Engineers

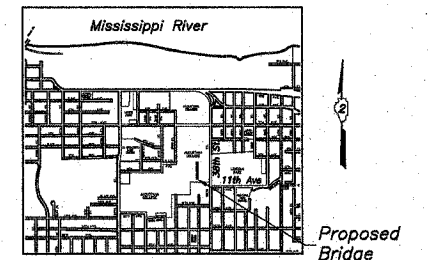


Augustana College  
Bridge  
Built 20\_\_\_\_  
Sec. 05-00174-00-BT  
Loading 85 P.S.F. &  
10,000 LB Truck

NAME PLATE  
See Std. 515001-02

I certify that to the best of my knowledge, information and belief this bridge design is structurally adequate for the design loading shown on the plans. The design is an economical one for the style of structure and complies with requirements of the AASHTO "Standard Specifications for Highway Bridges-17th Edition" and the "Guide Specifications for Design of Pedestrian Bridges-1997".

John B. Fellman 3-20-2008  
John B. Fellman, S.E. Date  
License expires 11-30-2008



**GENERAL PLAN AND ELEVATION**

AUGUSTANA COLLEGE MULTI-USE BRIDGE  
SECTION 05-00174-00-BT  
PROJECT NO. HPP-4113-(001)  
CITY OF ROCK ISLAND  
ROCK ISLAND COUNTY

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

|                       |          |                   |              |           |             |
|-----------------------|----------|-------------------|--------------|-----------|-------------|
| ROUTE NO.             | SECTION  | COUNTY            | TOTAL SHEETS | SHEET NO. | SHEET NO. 2 |
| *                     |          | Rock Island       | 112          | 55        | 19 SHEETS   |
| FED. ROAD DIST. NO. 7 | ILLINOIS | FED. AID PROJECT- |              |           |             |

\*05-00174-00-BT

GENERAL NOTES:

Fasteners shall be AASHTO M164 Type 1, mechanically galvanized bolts. Bolts  $\frac{7}{8}$  in.  $\phi$ , holes  $\frac{15}{16}$  in.  $\phi$ , unless otherwise noted.

Calculated weight of Structural Steel = 34,440 lb.

All structural steel shall be AASHTO M 270 Grade 50 (except expansion joints which shall be AASHTO M 270 Grade 36.)

No field welding is permitted except as specified in the contract documents.

Reinforcement bars shall conform to the requirements of ASTM A 706 Gr 60 (IL Modified). See Special Provisions

Reinforcement bars designated (E) shall be epoxy coated.

Concrete Sealer shall be applied to the designated areas of the Abutment & Pier Seats.

The Organic Zinc Rich Primer / Epoxy / Urethane Paint System shall be used for painting of new structural steel except where otherwise noted. The entire system shall be shop applied, with the exception that masked off connection surfaces, field installed fasteners and damaged areas shall be touched up in the field. The color of the final finish coat for all interior steel surfaces shall be Gray, Munsell No. 5B 7/1. The color of the final finish coat for the exterior and bottom flange of the fascia beams shall be Reddish Brown. See Special Provision for "Cleaning and Painting New Metal Structures".

The embankment configuration shown shall be the minimum that must be placed and compacted prior to construction of the abutments. Coordination with the precast modular wall manufacturer may be required to avoid conflicts with the drilled shafts construction.

All cross frames or diaphragms between beams or girders shall be installed with erection pins and bolts in accordance with the erection plan approved by the Engineer. Individual cross frames or diaphragms at supports may be temporarily disconnected to install bearing anchor rods.

Load carrying components designated "NTR" shall conform to the Supplemental Requirements for Notch Toughness, Zone 2.

No heat curving of steel plate girders will be allowed.

TOTAL BILL OF MATERIAL

| ITEM  | UNIT    | TOTAL  |
|---|---------|--------|
| Structure Excavation                                      | Cu. Yd. | 57.4   |
| Concrete Structures                                       | Cu. Yd. | 64.1   |
| Concrete Superstructure                                   | Cu. Yd. | 18.6   |
| Protective Coat   | Sq. Yd. | 89     |
| Furnishing and Erecting Structural Steel                  | L. Sum  | 1.0    |
| Stud Shear Connectors                                     | Each    | 786    |
| Reinforcement Bars, Epoxy Coated                          | Pound   | 30,190 |
| Bicycle Railing, Special                                  | Foot    | 140    |
| Name Plates   | Each    | 1      |
| Drilled Shafts in Soil                                    | Cu. Yd. | 74.2   |
| Preformed Joint Seal, 2 1/2"                              | Foot    | 11.0   |
| Preformed Joint Strip Seal                                | Foot    | 11.0   |
| Bridge Seat Sealer  | Sq. Ft. | 275    |
| Pedestrian Truss Superstructure                           | Sq. Ft. | 3,502  |
| High Load Multi-Rotation Bearings, Guided Expansion, 75k  | Each    | 2      |
| High Load Multi-Rotation Bearings, Guided Expansion, 150k | Each    | 1      |

|          |     |
|----------|-----|
| DESIGNED | LRT |
| CHECKED  | JBF |
| DRAWN    | RAP |
| CHECKED  | JBF |

GENERAL DATA SHEET

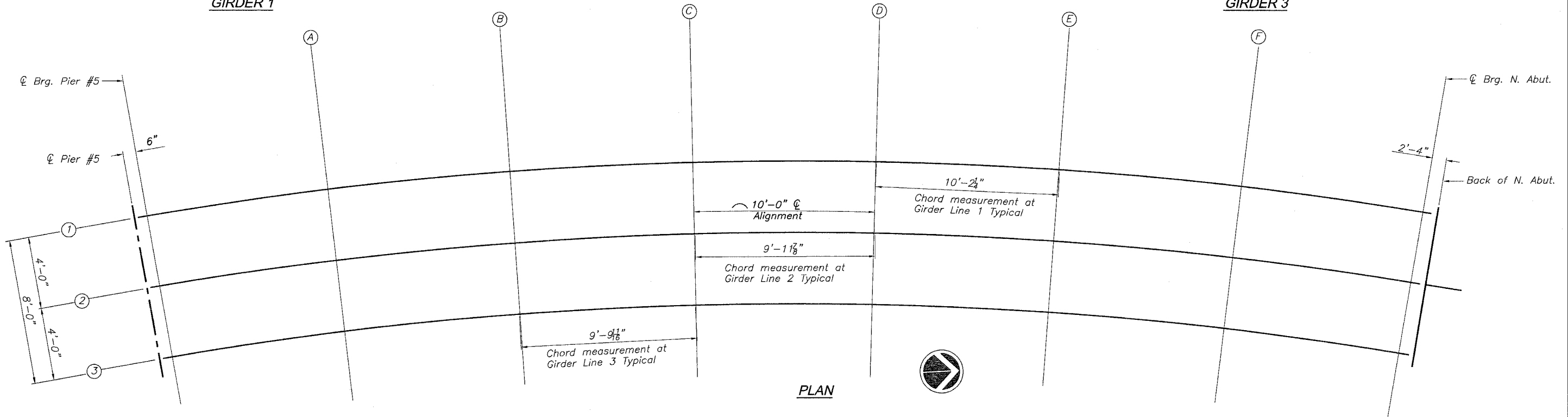
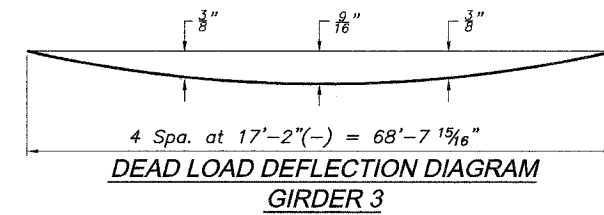
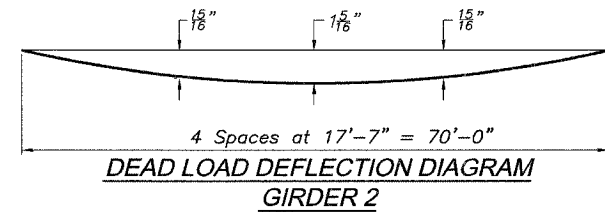
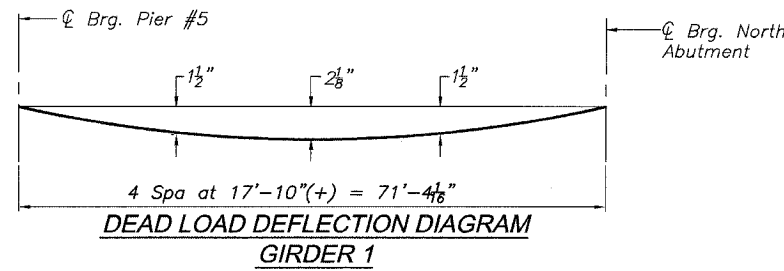
AUGUSTANA COLLEGE PEDESTRIAN BRIDGE  
SECTION 05-00174-00-BT  
PROJECT NO. HPP-4113-(001)  
CITY OF ROCK ISLAND  
ROCK ISLAND COUNTY

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

|                       |          |                   |              |           |             |
|-----------------------|----------|-------------------|--------------|-----------|-------------|
| ROUTE NO.             | SECTION  | COUNTY            | TOTAL SHEETS | SHEET NO. | SHEET NO. 3 |
| *                     |          | ROCK ISLAND       | 112          | 56        | 19 SHEETS   |
| FED. ROAD DIST. NO. 7 | ILLINOIS | FED. AID PROJECT- |              |           |             |

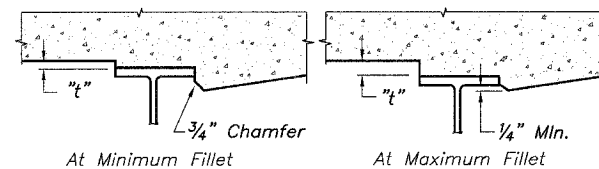
\* 05-00174-00-BT

| GIRDER 1           |            |        |                              |   | GIRDER 2           |            |        |                              |   | GIRDER 3           |            |        |                              |   |
|--------------------|------------|--------|------------------------------|---|--------------------|------------|--------|------------------------------|---|--------------------|------------|--------|------------------------------|---|
| Location           | Station    | Offset | Theoretical Grade Elevations | Theoretical Grade Elevations Adjusted For Dead Load Deflections | Location           | Station    | Offset | Theoretical Grade Elevations | Theoretical Grade Elevations Adjusted For Dead Load Deflections | Location           | Station    | Offset | Theoretical Grade Elevations | Theoretical Grade Elevations Adjusted For Dead Load Deflections |
| ☉ Pier #5          | 106+24.180 | -4.000 | 660.920                      | 660.920   | ☉ Pier #5          | 106+24.180 | 0.000  | 660.920                      | 660.920   | ☉ Pier #5          | 106+24.180 | 4.000  | 660.920                      | 660.920   |
| ☉ Brg. Pier #5     | 106+24.680 | -4.000 | 660.895                      | 660.895   | ☉ Brg. Pier #5     | 106+24.680 | 0.000  | 660.895                      | 660.895   | ☉ Brg. Pier #5     | 106+24.680 | 4.000  | 660.895                      | 660.895   |
| A                  | 106+34.680 | -4.000 | 660.395                      | 660.481   | A                  | 106+34.680 | 0.000  | 660.395                      | 660.448   | A                  | 106+34.680 | 4.000  | 660.395                      | 660.418   |
| B                  | 106+44.680 | -4.000 | 659.895                      | 660.039   | B                  | 106+44.680 | 0.000  | 659.895                      | 659.984   | B                  | 106+44.680 | 4.000  | 659.895                      | 659.933   |
| C                  | 106+54.680 | -4.000 | 659.395                      | 659.568   | C                  | 106+54.680 | 0.000  | 659.395                      | 659.502   | C                  | 106+54.680 | 4.000  | 659.395                      | 659.441   |
| D                  | 106+64.680 | -4.000 | 658.895                      | 659.068   | D                  | 106+64.680 | 0.000  | 658.895                      | 659.002   | D                  | 106+64.680 | 4.000  | 658.895                      | 658.941   |
| E                  | 106+74.680 | -4.000 | 658.395                      | 658.539   | E                  | 106+74.680 | 0.000  | 658.395                      | 658.502   | E                  | 106+74.680 | 4.000  | 658.395                      | 658.433   |
| F                  | 106+84.680 | -4.000 | 657.895                      | 657.981   | F                  | 106+84.680 | 0.000  | 657.895                      | 657.984   | F                  | 106+84.680 | 4.000  | 657.895                      | 657.918   |
| ☉ Brg. North Abut. | 106+94.680 | -4.000 | 657.395                      | 657.395   | ☉ Brg. North Abut. | 106+94.680 | 0.000  | 657.395                      | 657.395   | ☉ Brg. North Abut. | 106+94.680 | 4.000  | 657.395                      | 657.395   |
| Bk. W. North Abut. | 106+97.020 | -4.000 | 657.279                      | 657.279   | Bk. W. North Abut. | 106+97.020 | 0.000  | 657.279                      | 657.279   | Bk. North Abut.    | 106+97.020 | 4.000  | 657.279                      | 657.279   |



|          |     |
|----------|-----|
| DESIGNED | LRT |
| CHECKED  | JBF |
| DRAWN    | RAP |
| CHECKED  | JBF |

To determine "t": After all structural steel has been erected, elevations of the top flanges of the beams shall be taken at intervals shown above. These elevations subtracted from the "Theoretical Grade Elevations Adjusted for Dead Load Deflection" shown above, minus slab thickness equals the fillet heights "t" above top of flange of beams.



**TOP OF SLAB ELEVATIONS LAYOUT**

AUGUSTANA COLLEGE PEDESTRIAN BRIDGE  
SECTION 05-00174-00-BT  
PROJECT NO. HPP-4113-(001)  
CITY OF ROCK ISLAND  
ROCK ISLAND COUNTY

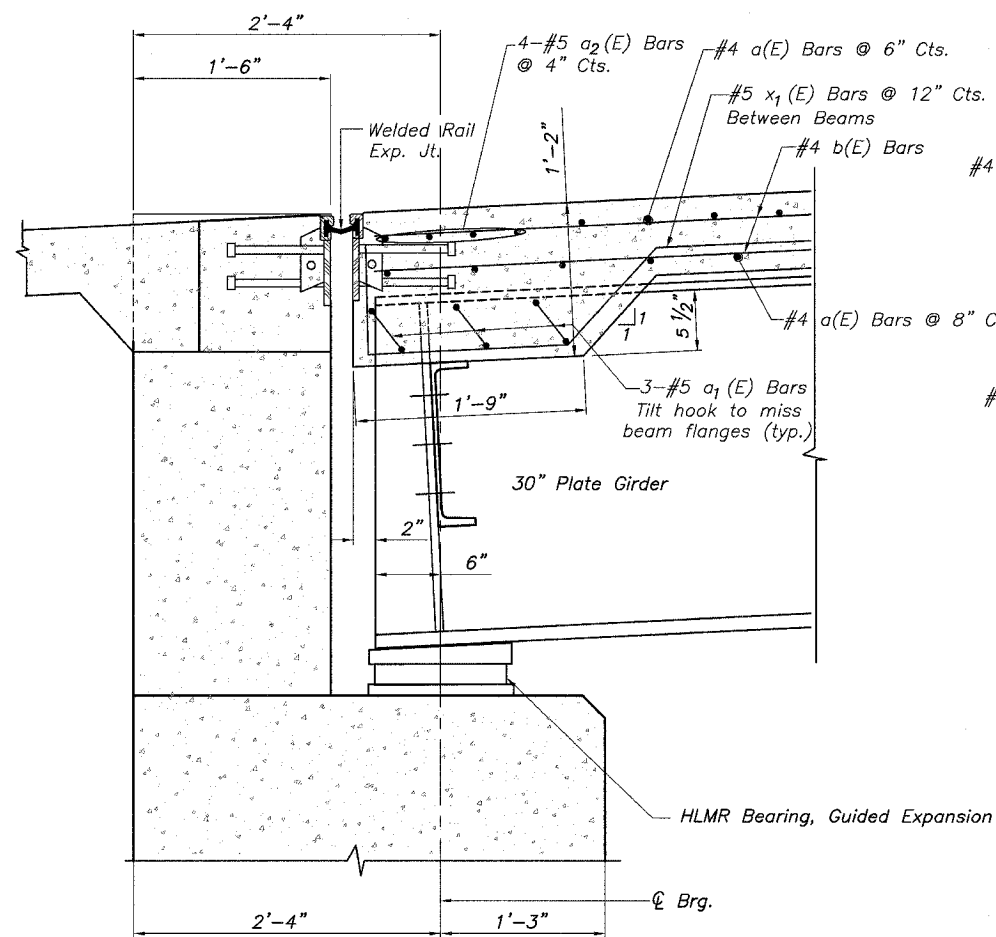




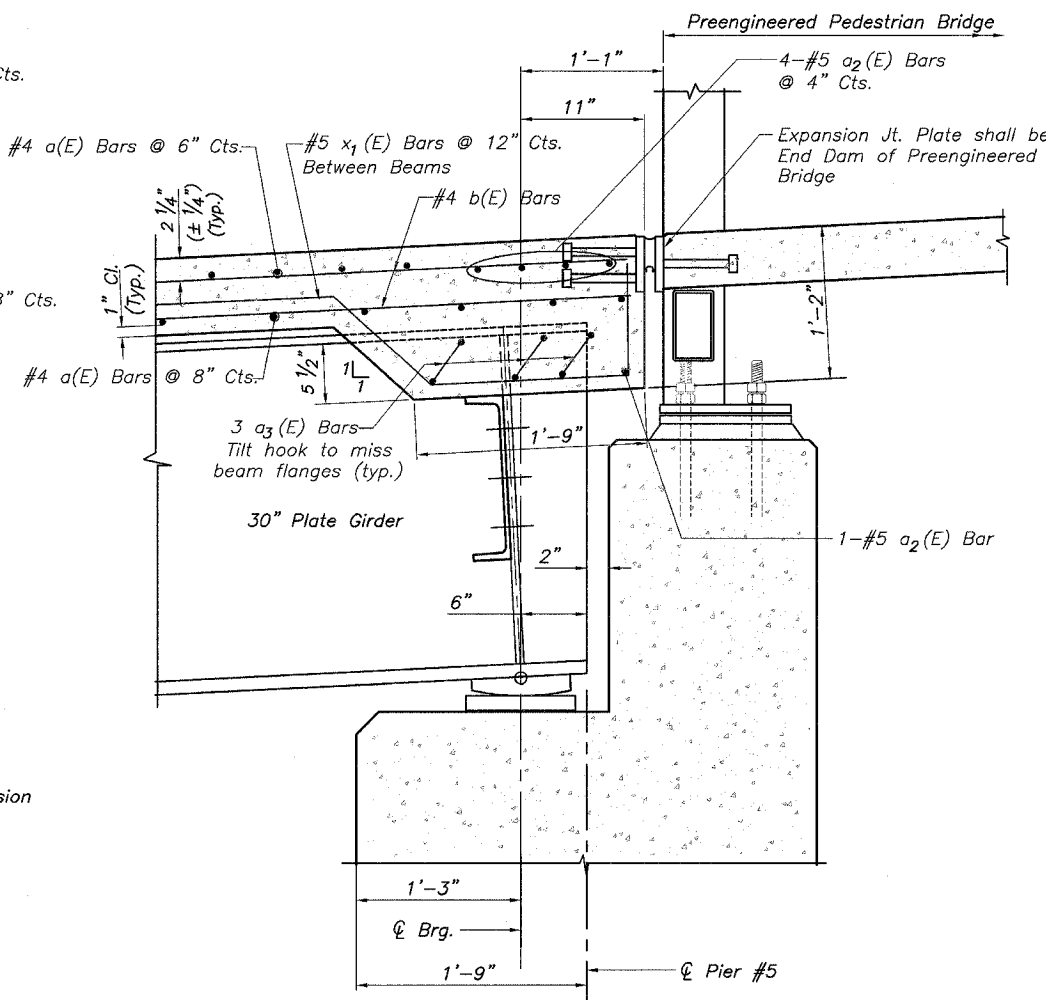
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

|                       |          |                   |              |           |             |
|-----------------------|----------|-------------------|--------------|-----------|-------------|
| ROUTE NO.             | SECTION  | COUNTY            | TOTAL SHEETS | SHEET NO. | SHEET NO. 5 |
| *                     | *        | ROCK ISLAND       | 112          | 58        | 19 SHEETS   |
| FED. ROAD DIST. NO. 7 | ILLINOIS | FED. AID PROJECT- |              |           |             |

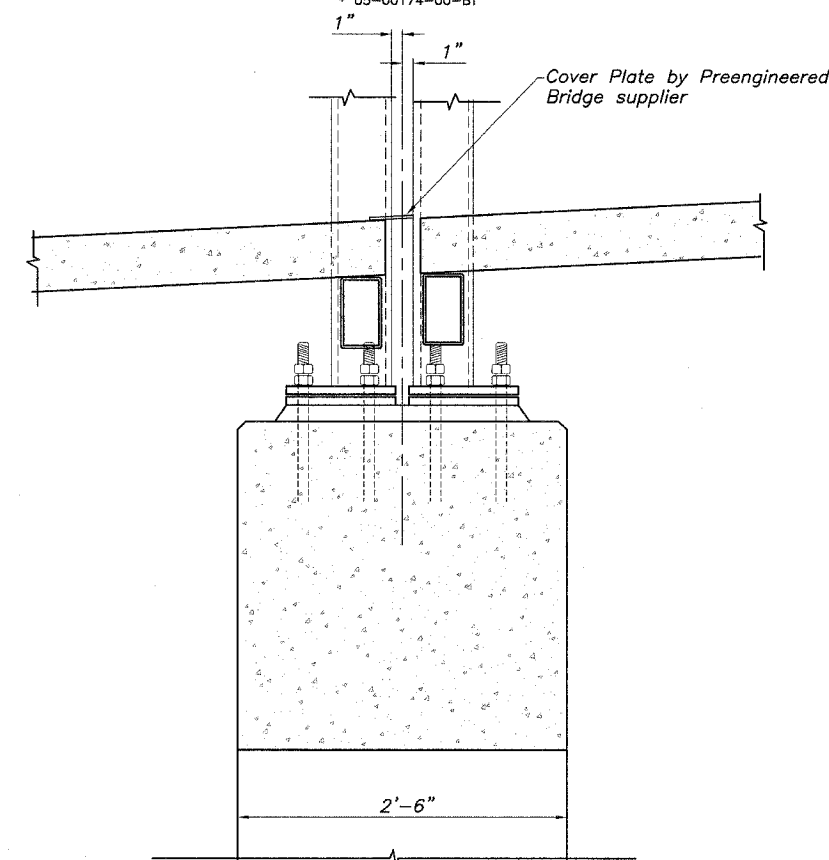
\* 05-00174-00-BT



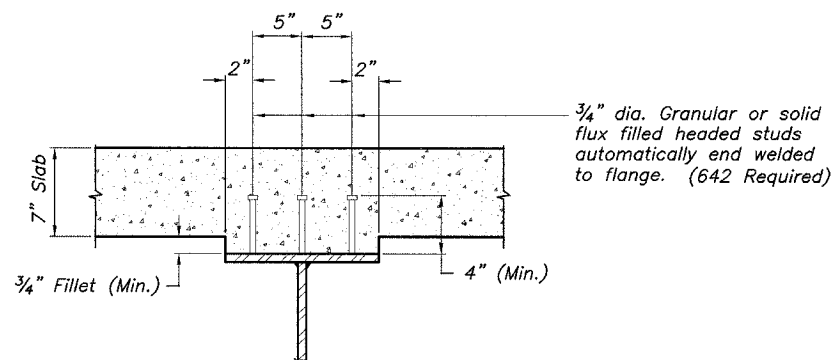
BEARING AT NORTH ABUTMENT DETAIL



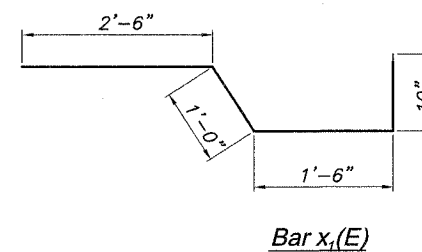
BEARING AT PIER #5 DETAIL



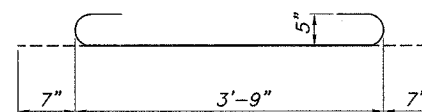
BEARING AT PIERS 1 THRU 4 DETAIL



SHEAR STUD DETAIL



Bar x<sub>1</sub>(E)



Bar a<sub>1</sub>(E)

Bill of Material

| Bar                              | No. | Size   | Length  | Shape |
|----------------------------------|-----|--------|---------|-------|
| a(E)                             | 243 | #4     | 10'-11" | —     |
| a <sub>1</sub> (E)               | 12  | #5     | 4'-11"  | ⌋     |
| a <sub>2</sub> (E)               | 9   | #5     | 10'-11" | —     |
| b(E)                             | 81  | #4     | 25'-6"  | —     |
| x <sub>1</sub> (E)               | 16  | #5     | 5'-10"  | ⌋     |
| Bicycle Railing, Special         |     | Foot   |         | 140   |
| Concrete Superstructure          |     | Cu.Yd. |         | 18.6  |
| Reinforcement Bars, Epoxy Coated |     | Pound  |         | 3,420 |
| Protective Coat                  |     | Sq.Yd. |         | 89    |

SUPERSTRUCTURE DETAILS

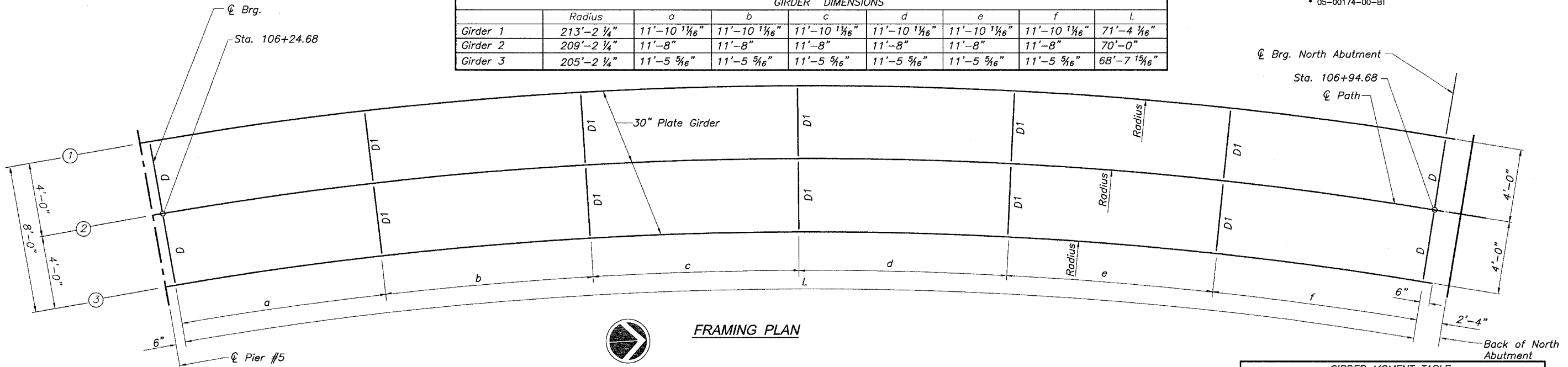
AUGUSTANA COLLEGE PEDESTRIAN BRIDGE  
SECTION 05-00174-00-BT  
PROJECT NO. HPP-4113-(001)  
CITY OF ROCK ISLAND  
ROCK ISLAND COUNTY

|          |     |
|----------|-----|
| DESIGNED | LRT |
| CHECKED  | JBF |
| DRAWN    | RAP |
| CHECKED  | JBF |

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

|                       |         |                            |              |           |             |
|-----------------------|---------|----------------------------|--------------|-----------|-------------|
| ROUTE NO.             | SECTION | COUNTY                     | TOTAL SHEETS | SHEET NO. | SHEET NO. 6 |
| *                     |         | ROCK ISLAND                | 112          | 59        | 19 SHEETS   |
| FED. ROAD DIST. NO. 7 |         | ILLINOIS FED. AID PROJECT- |              |           |             |

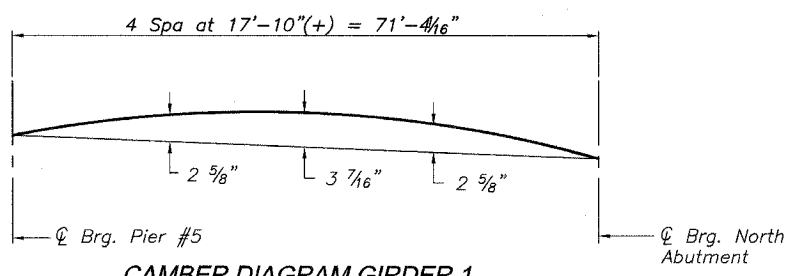
| GIRDER DIMENSIONS |             |              |              |              |              |              |              |              |
|-------------------|-------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
|                   | Radius      | a            | b            | c            | d            | e            | f            | L            |
| Girder 1          | 213'-2 1/4" | 11'-10 1/16" | 11'-10 1/16" | 11'-10 1/16" | 11'-10 1/16" | 11'-10 1/16" | 11'-10 1/16" | 71'-4 1/16"  |
| Girder 2          | 209'-2 1/4" | 11'-8"       | 11'-8"       | 11'-8"       | 11'-8"       | 11'-8"       | 11'-8"       | 70'-0"       |
| Girder 3          | 205'-2 1/4" | 11'-5 5/16"  | 11'-5 5/16"  | 11'-5 5/16"  | 11'-5 5/16"  | 11'-5 5/16"  | 11'-5 5/16"  | 68'-7 15/16" |



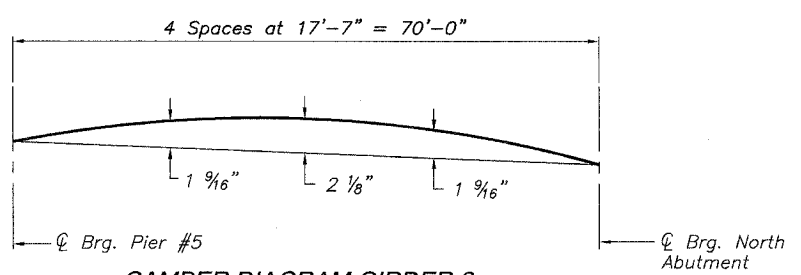
FRAMING PLAN

| TOP OF WEB ELEVATION |                |                |
|----------------------|----------------|----------------|
|                      | ☉ Brg. Pier #5 | ☉ Brg. N Abut. |
| Girder 1             | 660.167        | 656.667        |
| Girder 2             | 660.167        | 656.667        |
| Girder 3             | 660.167        | 656.667        |

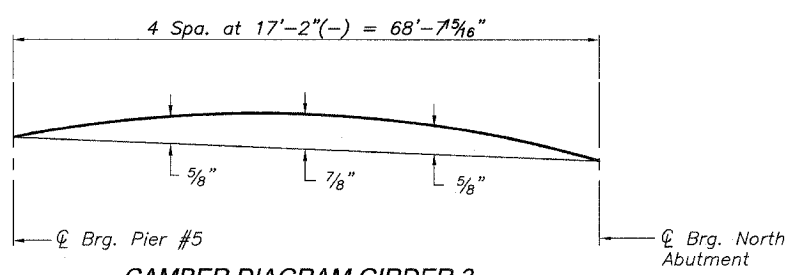
Note:  
The calculated deflections of the primary girders/beams under steel self-weight shall be used to detail the diaphragm, cross frame and lateral bracing connections, and to erect the structural steel such that the girders/beams will be plumb within a tolerance of ±1/8" per vertical ft. throughout when supporting their own weight.



CAMBER DIAGRAM GIRDER 1



CAMBER DIAGRAM GIRDER 2



CAMBER DIAGRAM GIRDER 3

|          |     |
|----------|-----|
| DESIGNED | LRT |
| CHECKED  | JBF |
| DRAWN    | RAP |
| CHECKED  | JBF |

- Is, Ss: Non-composite moment of inertia and section modulus of the steel section used for computing fs (Total and Overload) due to non-composite dead loads (in.4 and in.3).
  - lc(n), Sc(n): Composite moment of inertia and section modulus of the steel and deck base upon the modular ratio, "n", used for computing fs (Total and Overload) due to short-term composite live loads (in.4 and in.3).
  - lc(3n), Sc(3n): Composite moment of inertia and section modulus of the steel and deck based upon 3 times the modular ratio, "3n", use for computing fs (Total and Overload) due to long-term composite (superimposed) dead loads (in.4 and in.3).
  - S1: Section modulus of one flange plate for lateral flange bending (in.3).
  - Q: Un-factored non-composite dead load (kips/ft.).
  - Mq: Un-factored moment due to non-composite dead load (kip-ft.).
  - Sq: Un-factored long-term composite (superimposed) dead load (kip-ft.).
  - Msp: Un-factored moment due to long-term composite (superimposed) dead load (kips/ft.).
  - Ml: Un-factored live load moment (kip-ft.).
  - Mimp: Un-factored moment due to impact (kip-ft.).
  - Ma: Factored design moment (kip-ft.).  
1.3 [Mq + Msq + 5/3 (Ml + Mimp)]
  - Mbl: Factored lateral bending moment for flange plate (kip-ft.).
  - fl: Factored calculated normal stress at the edge of flange due to lateral bending (ksi)
  - fs(Overload): Sum of stresses as computed from the moments below (ksi)  
[Mq + Msq + 5/3 (Ml + Mimp)]
  - fs(Total): Sum of stresses as computed from the moments below (ksi)  
1.3 [Mq + Msq + 5/3 (Ml + Mimp)]
  - fcr(Overload): Critical average flange stress at overload computed according to the 2003 AASHTO Guide Specifications for Horizontally Curved Steel Girder Highway bridges Section 9.5 (ksi).
  - fcr: Critical average flange stress (smaller of Fcr1 or Fcr2 for partially braced flanges and Fy for continuously braced flanges) computed according to the 2003 AASHTO Guide Specifications for Horizontally Curved Steel Girder Highway Bridges (Sections 5.2, 5.3 and 5.4) (ksi).
  - VR: Maximum l + impact horizontal shear range within span for stud shear connector design (kips)
- Note:  
Ml and Rl include the effects of centrifugal force and superelevation.

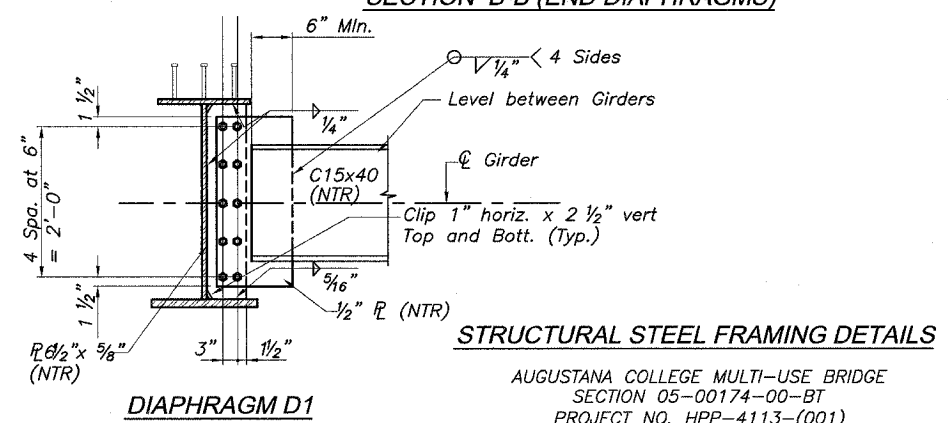
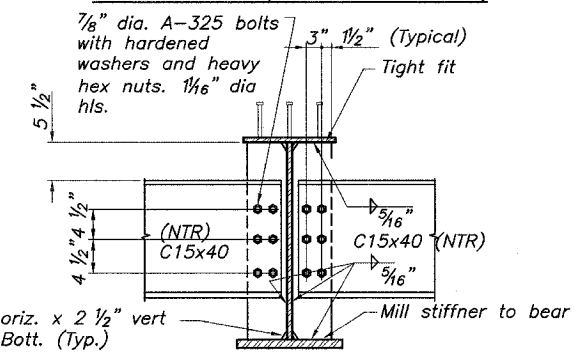
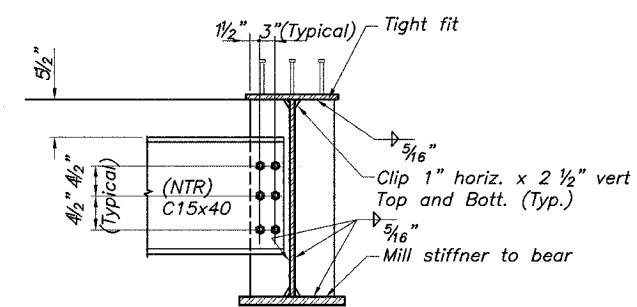
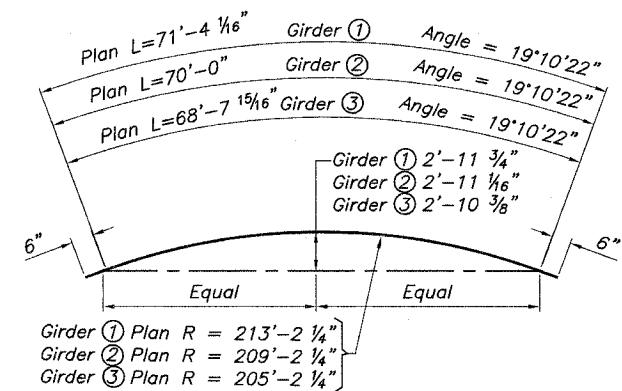
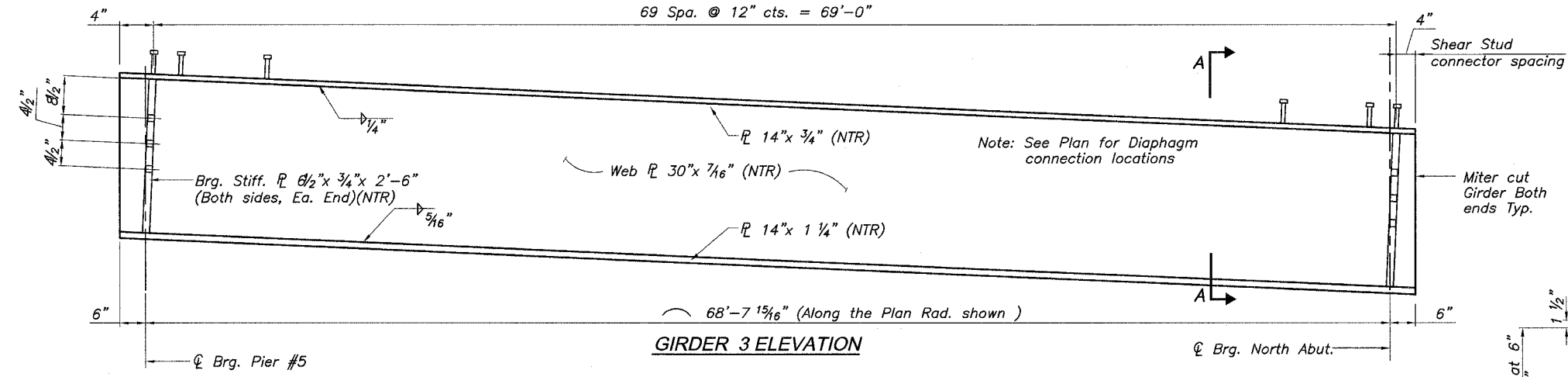
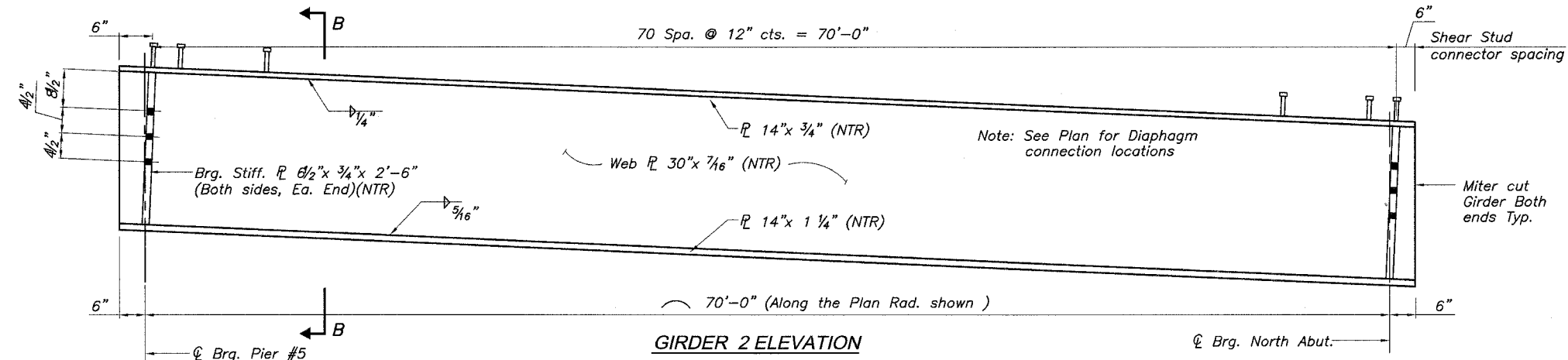
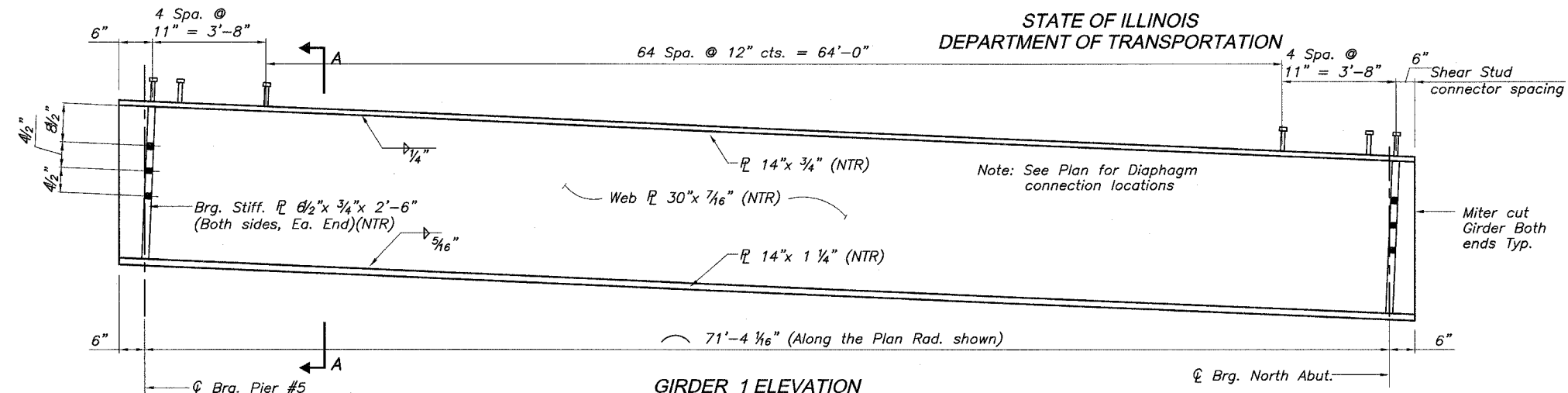
| GIRDER MOMENT TABLE      |          |          |          |
|--------------------------|----------|----------|----------|
|                          | GIRDER 1 | GIRDER 2 | GIRDER 3 |
| Is (in.4)                | 7437     | 7437     | 7437     |
| lc (n) (in.4)            | 15936    | 16404    | 15936    |
| lc (3n) (in.4)           | 11469    | 11791    | 11469    |
| Ss (in.3)                | 550      | 612      | 550      |
| Sc (n) (in.3)            | 690      | 694      | 690      |
| Sc (3n) (in.3)           | 634      | 639      | 634      |
| S1 (in.3)                | 40.8     | 40.8     | 40.8     |
| Q (k/ft.)                | 1.03     | .56      | .03      |
| Mq (k)                   | 655      | 342      | 16       |
| sq (k/ft.)               | .017     | .010     | .003     |
| Msp (k)                  | 10.5     | 6.4      | 1.8      |
| Ml (k)                   | 321      | 216      | 96       |
| M (Imp) (k)              | 0        | 0        | 0        |
| 1/3 [Ml + M(imp)] (k)    | 535      | 360      | 160      |
| Ma (k)                   | 1560     | 920      | 242      |
| Mbl (k)                  | 35       | 20       | 5        |
| fs non-comp (k.s.i.)     | 14.3     | 7.2      | .31      |
| fs comp (k.s.i.)         | 0.2      | 0.11     | 0.04     |
| 1/3 fs [Ml + M(imp)] (k) | 9.3      | 6.2      | 3.1      |
| fl (k.s.i.)              | 10.1     | 5.8      | 1.2      |
| fs (Overload) (k.s.i.)   | 23.8     | 13.5     | 3.5      |
| fs (Total) (k.s.i.)      | 30.9     | 17.6     | 4.5      |
| fcr (Overload) (k.s.i.)  | 47.5     | 47.5     | 47.5     |
| VR (k)                   | 13.2     | 9.0      | 5.8      |
| fcr (k.s.i.)             | 46.8     | 47.2     | 47.6     |

| GIRDER REACTION TABLE |          |          |          |
|-----------------------|----------|----------|----------|
|                       | GIRDER 1 | GIRDER 2 | GIRDER 3 |
| Rq (k)                | 46.5     | 27.2     | 7.2      |
| Rl (k)                | 48.0     | 24.9     | 10.4     |
| Imp (k)               | 0        | 0        | 0        |
| R (Total) (k)         | 94.5     | 52.1     | 17.6     |

STRUCTURAL STEEL FRAMING  
AUGUSTANA COLLEGE PEDESTRIAN BRIDGE  
SECTION 05-00174-00-BT  
PROJECT NO. HPP-4113-(001)  
CITY OF ROCK ISLAND  
ROCK ISLAND COUNTY

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

| ROUTE NO.  | SECTION | COUNTY      | TOTAL SHEETS | SHEET NO. | SHEET NO. 7 |
|--|---------|-------------|--------------|-----------|-------------|
| *  | *       | ROCK ISLAND | 112          | 60        | 19 SHEETS   |
| FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT- |         |             |              |           |             |
| * 05-00174-00-BT                                 |         |             |              |           |             |



**STRUCTURAL STEEL FRAMING DETAILS**

AUGUSTANA COLLEGE MULTI-USE BRIDGE  
SECTION 05-00174-00-BT  
PROJECT NO. HPP-4113-(001)  
CITY OF ROCK ISLAND  
ROCK ISLAND COUNTY

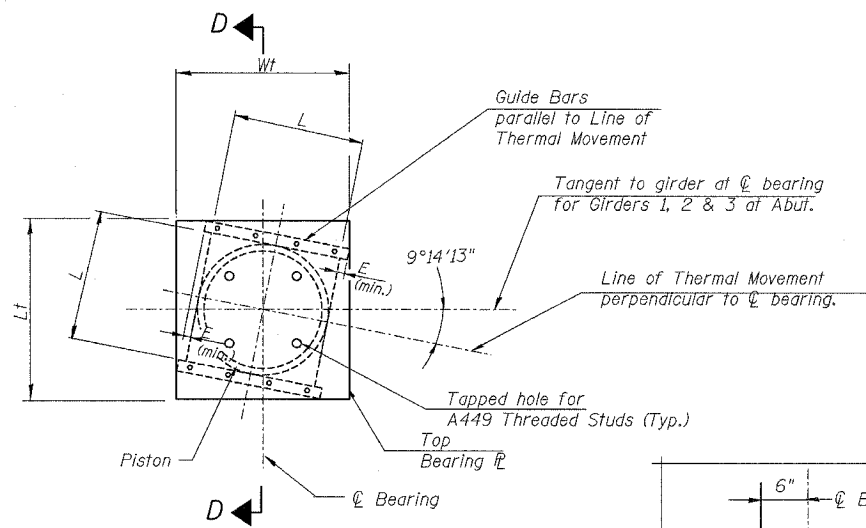
|          |     |
|----------|-----|
| DESIGNED | LRT |
| CHECKED  | JBF |
| DRAWN    | RAP |
| CHECKED  | JBF |

- The Contractor shall either:
1. Ream diaphragm and/or cross frame connection holes during shop assembly, or
  2. Provide detailing and fabrication controls acceptable to the Engineer which ensures accuracy such that field reaming will not exceed the amount permitted in Article 505.08(l) of the Standard Specifications.

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

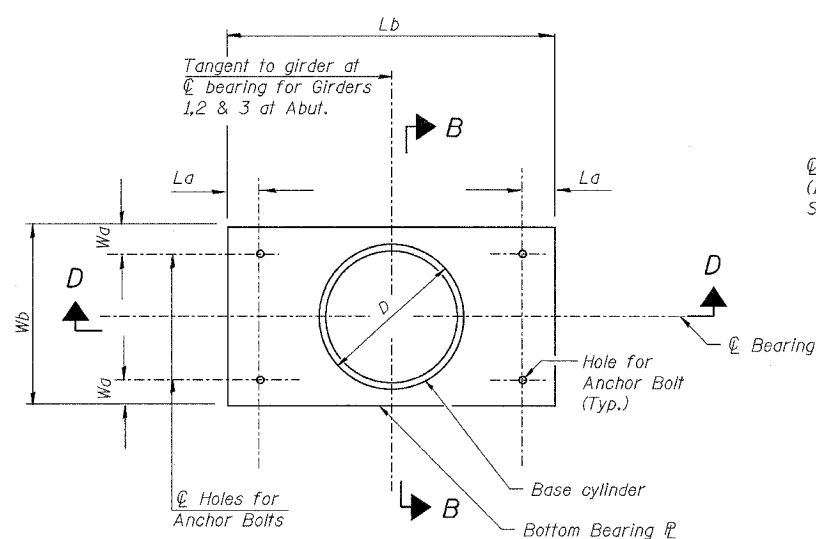
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|-----------------------|---------|------------------|--------------|-----------|
| ROUTE NO.             | SECTION | COUNTY           | TOTAL SHEETS | SHEET NO. |
| *                     |         | ROCK ISLAND      | 112          | 61        |
| SHEET NO. 8           |         |                  |              |           |
| 19 SHEETS             |         |                  |              |           |
| FED. ROAD DIST. NO. 7 | ELLINGS | FED. AID PROJECT |              |           |

\* 05-00174-00-BT



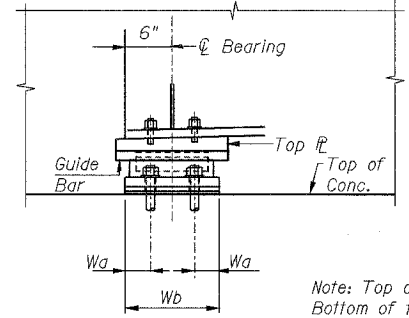
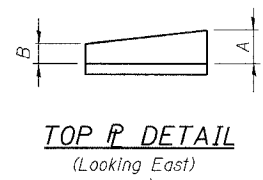
**TOP BEARING PLATE AND PISTON PLAN FOR FLOATING BEARING, GUIDED EXPANSION**

Girder not shown for clarity.  
Plan Dimensions of Top Plate and Guide Bars to be determined by Bearing Fabricator.



**BOTTOM BEARING PLATE AND BASE CYLINDER PLAN FOR FLOATING BEARING, GUIDED EXPANSION**

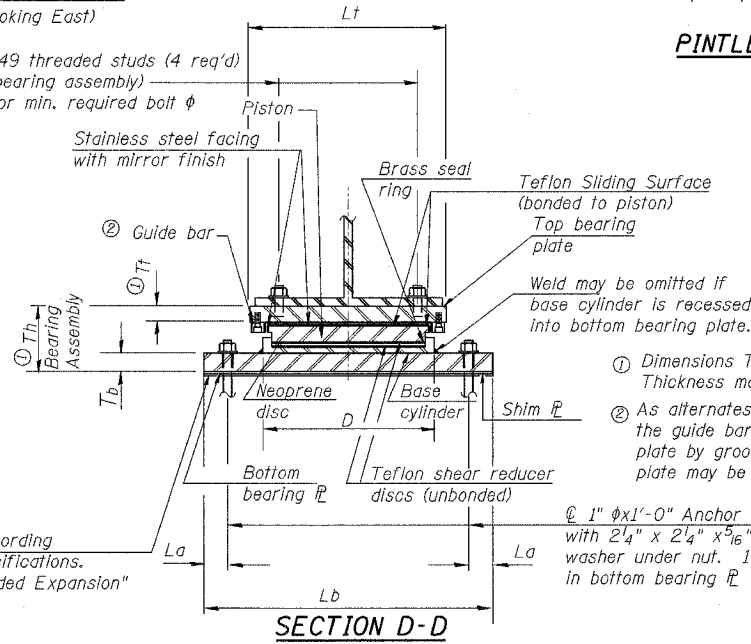
1/8" elastomeric neoprene leveling pad according to Article 1052.02 of the Standard Specifications. Cost included with "Floating Bearing, Guided Expansion"



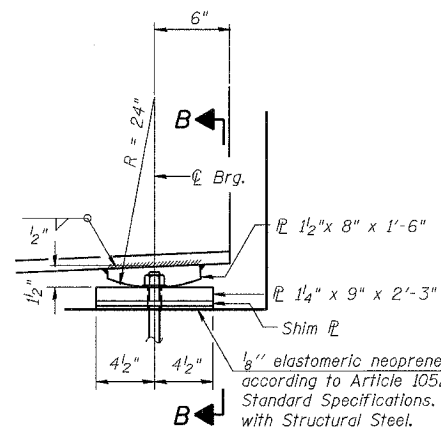
**SECTION B-B (Looking East)**

Note: Top of top bearing plate is sloped. Bottom of top bearing plate is to be level.

4 ASTM A449 threaded studs (4 req'd) (Include in bearing assembly) See Table for min. required bolt φ

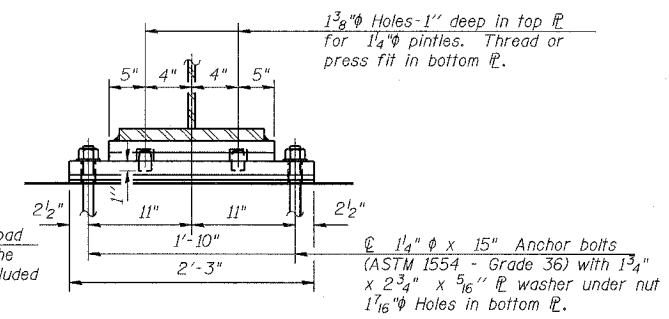


**SECTION D-D**

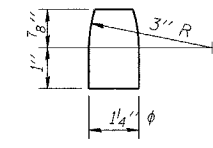


**ELEVATION AT PIER**

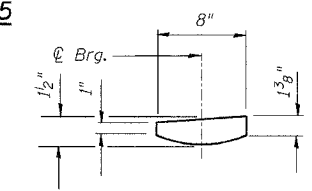
**FIXED BEARING AT PIER #5**  
3 Required



**SECTION B-B**



**PINTLE**



**BEVELED TOP PLATE**

**Notes:**  
See Sheet 63 of 112 for Anchor Bolt Installation.  
The 1/8" TFE sheet shall be bonded directly to the piston with a two-component, medium viscosity epoxy resin, conforming to the requirements of the Federal Specifications MMM-A-134, Type 1. The bond agent shall be applied to the full area of the contact surfaces.  
Total Bearing Heights (Th) are based on values taken from a specific manufacturer's design tables. Actual bearing heights may differ from contract plans. Contractor to verify bearing heights and adjust girder seat elevations if required.  
All structural steel for bearings shall be AASHTO M 270M, Grade 50.  
All anchor bolts shall be ASTM F 1554 Grade 105.  
"Total Vertical Reaction" in table is the actual controlling vertical factored load.  
Anchor bolts at fixed bearings may be either cast in place or installed in holes drilled after the supported member is in place.  
Drilled and set anchor bolts shall be installed according to Article 521.06 of the Standard Specifications.

**BILL OF MATERIAL**

| Item   | Unit | Total |
|--|------|-------|
| High Load Multi-Rotation Bearings, Guided Expansion, 75 k  | Each | 2     |
| High Load Multi-Rotation Bearings, Guided Expansion, 150 k | Each | 1     |

**EXPANSION BEARING SCHEDULE**

| Location           | Type                               | Vertical Design Load kips | Total Vertical Reaction kips | Total Lateral Reaction kips | LL Rotation Range Radians | Total Required Thermal Movement -30°F to +130°F |
|--------------------|------------------------------------|---------------------------|------------------------------|-----------------------------|---------------------------|---|
| Abut. Girder 1     | Floating Bearing, Guided Expansion | 150                       | 106                          | 21.2                        | 0.0000 to -0.02           | 3"  |
| Abut. Girder 2 & 3 | Floating Bearing, Guided Expansion | 75                        | 60                           | 12                          | 0.0000 to -0.02           | 3"  |

| Location           | Top Plate Assembly |        |        |     |     |        |        |                 | Bottom Plate Assembly |        |         |         |         |        | Total Bearing Height Th |
|--------------------|--------------------|--------|--------|-----|-----|--------|--------|-----------------|-----------------------|--------|---------|---------|---------|--------|-------------------------|
|                    | Tt                 | A      | B      | Wt  | Lt  | L      | E      | Threaded Stud φ | Tb                    | Wb     | Lb      | Wa      | La      | D      |                         |
| Abut. Girder 1     | 1 7/8"             | 2 1/8" | 1 1/2" | 13" | 14" | 7 3/4" | 1 1/2" | 3/4"            | 1 3/4"                | 9 1/4" | 21 1/4" | 1 5/16" | 1 5/16" | 6 1/4" | 5 5/16"                 |
| Abut. Girder 2 & 3 | 1 7/8"             | 2 1/8" | 1 1/2" | 13" | 14" | 6 3/4" | 1 1/2" | 3/4"            | 1 1/4"                | 9 1/4" | 21 1/4" | 1 5/16" | 1 5/16" | 5 1/4" | 6"                      |

|          |     |
|----------|-----|
| DESIGNED | LRT |
| CHECKED  | JBF |
| DRAWN    | RAP |
| CHECKED  | JBF |

I-2-E1 11-1-06

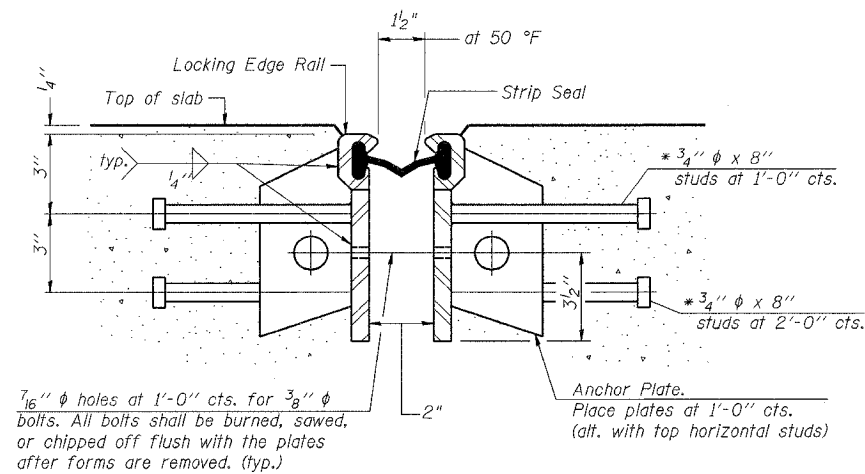
**BEARING DETAILS**

AUGUSTANA COLLEGE PEDESTRIAN BRIDGE  
SECTION 05-00174-00-BT  
PROJECT NO. HPP-4113-(001)  
CITY OF ROCK ISLAND  
ROCK ISLAND COUNTY

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

|                       |          |                  |              |           |             |
|-----------------------|----------|------------------|--------------|-----------|-------------|
| ROUTE NO.             | SECTION  | COUNTY           | TOTAL SHEETS | SHEET NO. | SHEET NO. 9 |
| #                     |          | ROCK ISLAND      | 112          | 62        | 19 SHEETS   |
| FED. ROAD DIST. NO. 7 | ILLINOIS | FED. AID PROJECT |              |           |             |

\* 05-00174-00-BT



**GENERAL NOTES**

The strip seal shall be made continuous and shall have a minimum thickness of 1/4". The configuration of the strip seal shall match the configuration of the Locking Edge Rails.

The height and thickness of the Locking Edge Rails shown are minimum dimensions. The actual configuration of the Locking Edge Rails and matching strip seal may vary from manufacturer to manufacturer. Flanged edge rails will not be allowed.

Locking Edge Rails may be spliced at slope discontinuities and stage construction joints.

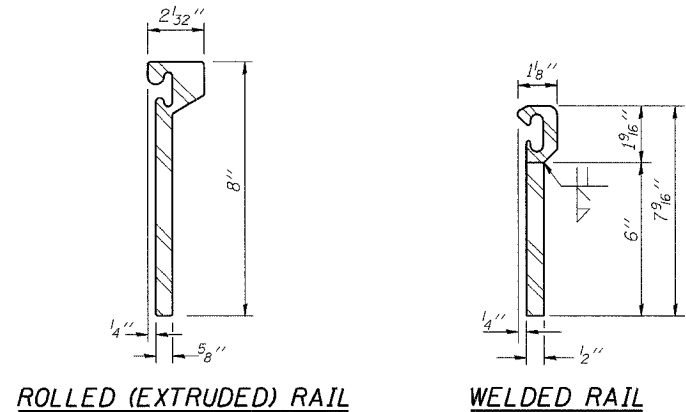
The manufacturer's recommended installation methods shall be followed.

The joint opening and deck dimensions detailed on the superstructure are based on a preformed joint seal. If the contractor elects to use the alternate strip seal joint, the opening and deck dimensions shall be modified according to the dimensions detailed on this sheet. Required modifications shall be made at no additional cost to the State.

\* Granular or solid flux filled headed studs conforming to Article 1006.32 of the Std. Specs., automatically end welded.

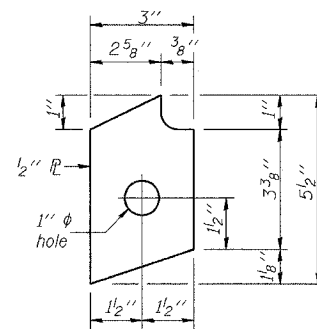
**SECTION THRU WELDED RAIL EXP. JOINT**

( 17 Studs Required)  
( 10 Anchor Plates Required)

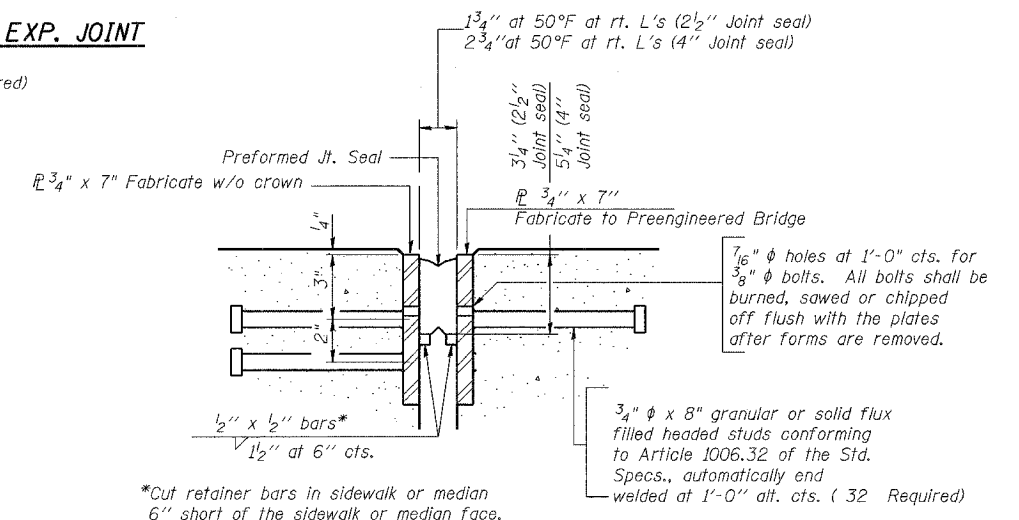


**ROLLED (EXTRUDED) RAIL**

**WELDED RAIL**



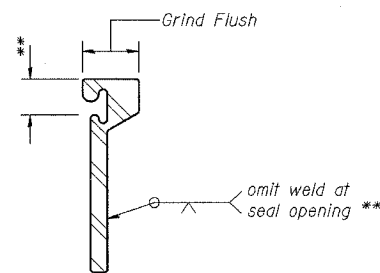
**ANCHOR PL**  
(for welded rail)



**SECTION THRU EXPANSION JOINT**

(2 1/2" and 4" joint seals)

**LOCKING EDGE RAILS**

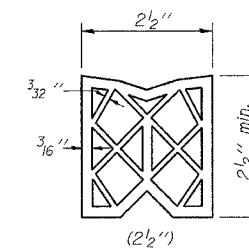


**LOCKING EDGE RAIL SPLICE**

The inside of the locking edge rail groove shall be free of weld residue.

**BILL OF MATERIAL**

| Item                       | Unit | Total |
|----------------------------|------|-------|
| Preformed Joint Strip Seal | Foot | 11.0  |
| Preformed Jt. Seal, 2 1/2" | Foot | 11.0  |



**PREFORMED JOINT SEAL**

**EXPANSION JOINT DETAILS**

AUGUSTANA COLLEGE MULTI-USE BRIDGE  
SECTION 05-00174-00-BT  
PROJECT NO. HPP-4113-(001)  
CITY OF ROCK ISLAND  
ROCK ISLAND COUNTY

|          |     |
|----------|-----|
| DESIGNED | LRT |
| CHECKED  | JBF |
| DRAWN    | RAP |
| CHECKED  | JBF |

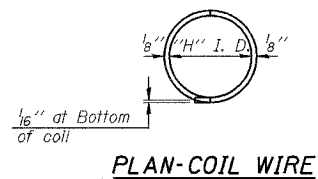
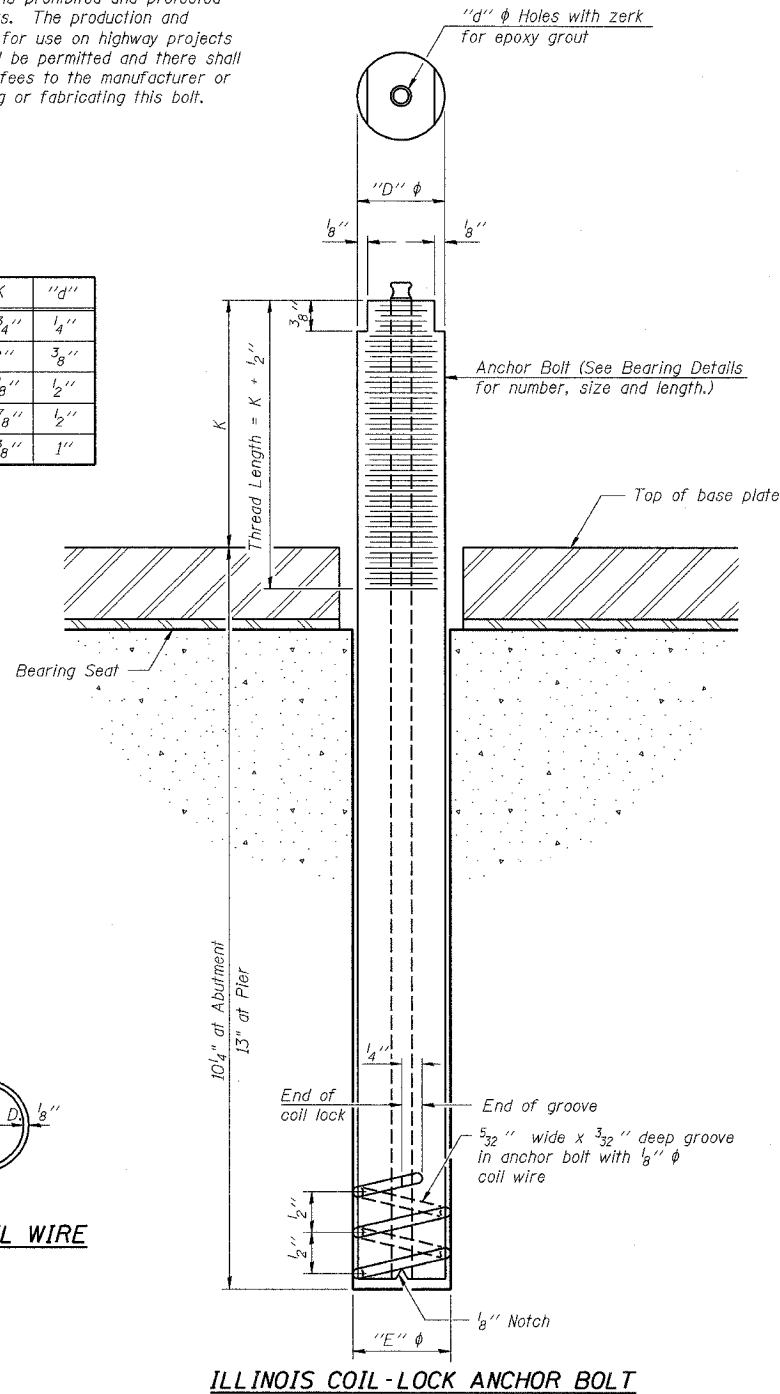
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

|                       |          |                   |              |           |
|-----------------------|----------|-------------------|--------------|-----------|
| ROUTE NO.             | SECTION  | COUNTY            | TOTAL SHEETS | SHEET NO. |
|                       | *        | ROCK ISLAND       | 112          | 63        |
| SHEET NO. 10          |          |                   |              |           |
| 19 SHEETS             |          |                   |              |           |
| FED. ROAD DIST. NO. 7 | ILLINOIS | FED. AID PROJECT- |              |           |

\* 05-00174-00-BT

The Illinois Coil-Lock Anchor Bolt is a proprietary item which is the property of the Illinois Department of Transportation. Use, reproduction or disclosure without express written permission is prohibited and protected under Federal copyright laws. The production and the fabrication of this bolt for use on highway projects in the State of Illinois shall be permitted and there shall be no incurred charges or fees to the manufacturer or the fabricator for producing or fabricating this bolt.

| D      | E      | H       | K      | "d"  |
|--------|--------|---------|--------|------|
| 1"     | 1 1/8" | 1 3/16" | 1 3/4" | 1/4" |
| 1 1/4" | 1 3/8" | 1 1/16" | 2"     | 3/8" |
| 1 1/2" | 1 5/8" | 1 5/16" | 2 1/8" | 1/2" |
| 2"     | 2 1/8" | 1 9/16" | 2 7/8" | 1/2" |
| 2 1/2" | 2 5/8" | 2 5/16" | 3 3/8" | 1"   |



**MATERIALS FOR ILLINOIS COIL-LOCK ANCHOR BOLT**

The anchor bolt shall be fabricated from cold drawn or hot finished seamless carbon steel mechanical tubing conforming to ASTM A 519, Grade 1026, CW and supplied with hexagonal nuts and cut washers.

The coil wire shall be made of any suitable soft steel wire. The finished anchor bolt shall be cleaned of rust and other foreign materials and wrapped or packaged to prevent contamination until they are installed. The epoxy grout shall be a two-component, epoxy resin bonding system conforming to ASTM C 881, Type I, Grade 1 and of a Class suitable for the temperature at installation.

**INSTALLATION PROCEDURE for the ILLINOIS COIL-LOCK ANCHOR BOLT**

1. With the coil wire in place, the bolt shall be inserted into the hole and turned clockwise to a snug fit in the hole. Nut and washer shall be placed on the bolt. The nut shall be tensioned until the steel base plates are held securely to the concrete bearing seat.
2. Epoxy grout shall be pumped through the zerk fitting with a pressure gun. Pumping shall continue until the epoxy overflows the hole around the bolt shank. After pumping is discontinued, excess epoxy shall be immediately wiped off.

**ALTERNATE ANCHOR BOLTS**

The Contractor may use, at his option, the capsule or the adhesive cartridge type anchor rods that have been previously tested and given a prior approval by the Department. The Contractor shall install these anchor rods in pre-drilled holes according to the manufacturer's recommendations and procedures.

- The capsule or the adhesive cartridge type anchor rods shall be a two part system composed of:
1. A threaded rod stud with nut and washer of the type specified.
  2. A sealed glass capsule or a sealed glass adhesive cartridge containing premeasured amounts of the adhesive chemical.

| Location    | Type   |
|-------------|--------|
| Pier 5      | F 1554 |
| North Abut. | F 1554 |
|             |        |
|             |        |

ASTM F 1554 Grade 105, ASTM A 449 and AASHTO M 314 Grade 105 anchor bolts may be substituted for the anchor bolts shown above.

**GENERAL NOTES**

Holes in the masonry for anchor bolts shall be drilled through the base plates to the diameter and depth shown or according to the manufacturer's recommendation after beams or girders have been erected and adjusted.

Prior to setting the bolts, the holes shall be dry and all dust and loose particles shall be removed by the use of compressed air or vacuuming. The anchor bolts, furnished and installed and including the epoxy grout or capsules shall not be paid for separately but shall be included in the unit bid price for Furnishing and Erecting Structural Steel.

**ANCHOR BOLT DETAILS FOR BEARINGS**

AUGUSTANA COLLEGE MULTI-USE BRIDGE  
SECTION 05-00174-00-BT  
PROJECT NO. HPP-4113-(001)  
CITY OF ROCK ISLAND  
ROCK ISLAND COUNTY

|          |     |
|----------|-----|
| DESIGNED | LRT |
| CHECKED  | JBF |
| DRAWN    | RAP |
| CHECKED  | JBF |

ABB-1 10-22-04



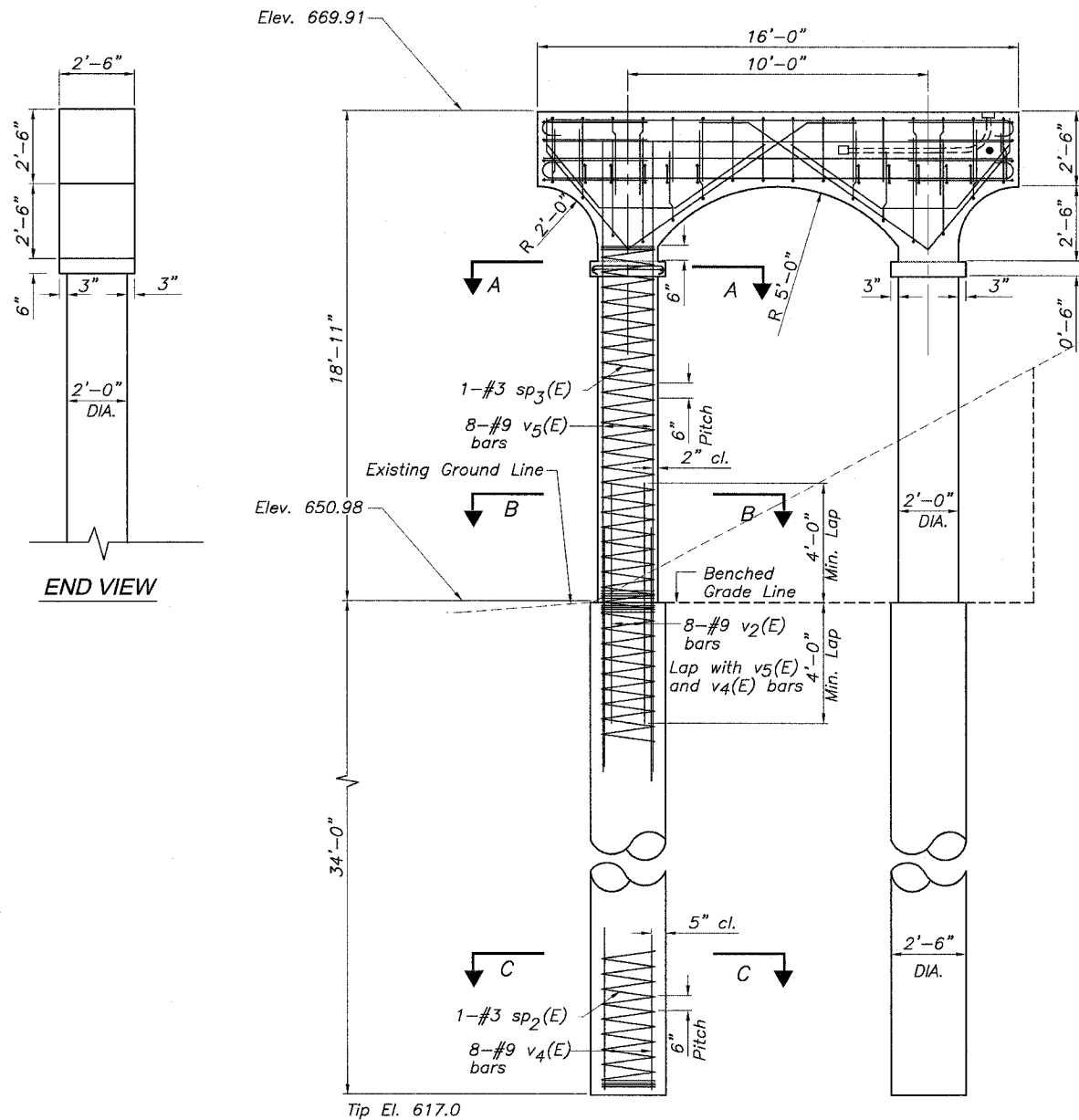


STATE OF ILLINOIS

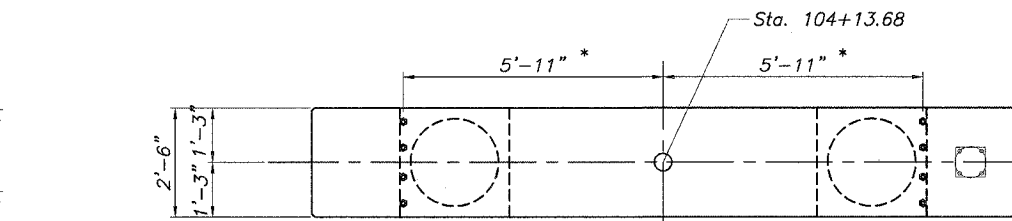
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|-----------------------|---------|-------------|-------------------|-----------|--------------|
| ROUTE NO.             | SECTION | COUNTY      | TOTAL SHEETS      | SHEET NO. | SHEET NO. 12 |
| *                     |         | ROCK ISLAND | 112               | 65        | 19 SHEETS    |
| FED. ROAD DIST. NO. 7 |         | ILLINOIS    | FED. AID PROJECT- |           |              |

\* 05-00174-00-BT

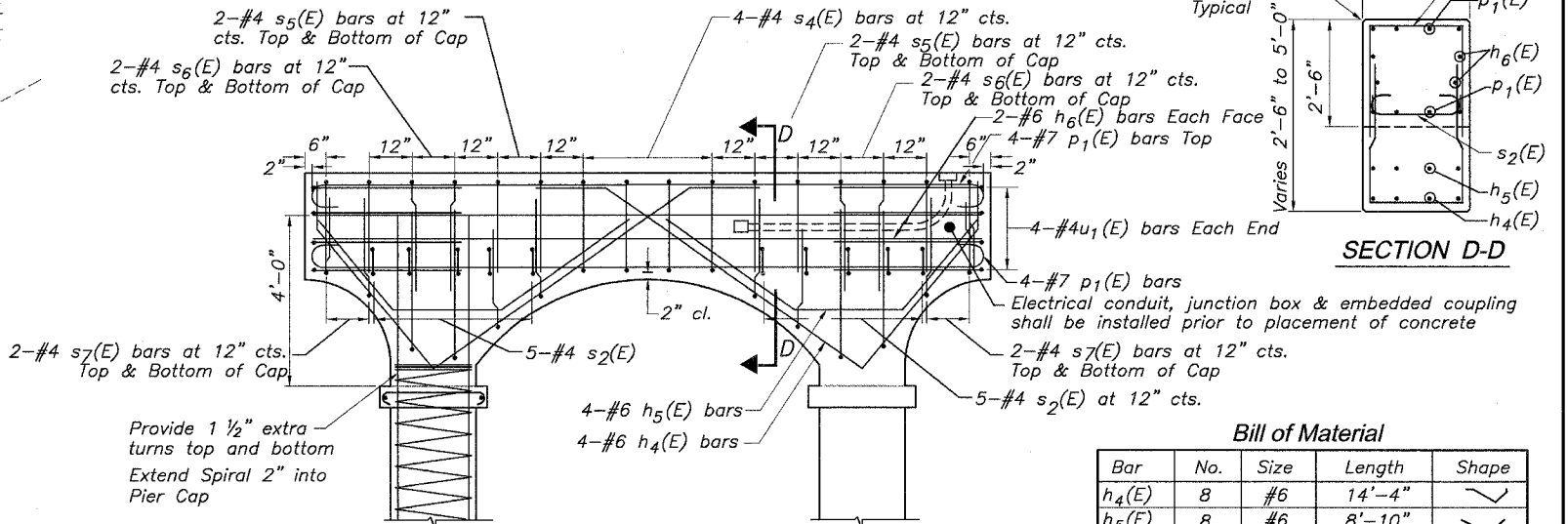
\* Final location of bolt pattern to be provided by bridge supplier



PIER ELEVATION



TOP PLAN

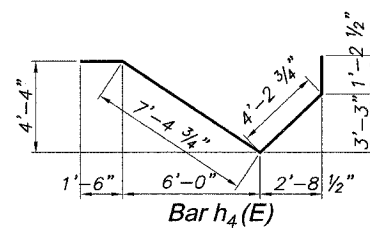


TOP CAP REINFORCEMENT

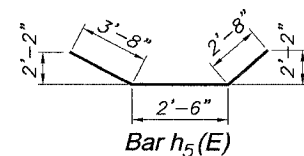
Bill of Material

| Bar                             | No. | Size | Length  | Shape |
|---------------------------------|-----|------|---------|-------|
| $h_4(E)$                        | 8   | #6   | 14'-4"  | U     |
| $h_5(E)$                        | 8   | #6   | 8'-10"  | U     |
| $h_6(E)$                        | 4   | #6   | 15'-8"  | —     |
| $p_1(E)$                        | 8   | #7   | 17'-4"  | U     |
| $s_2(E)$                        | 10  | #4   | 3'-2"   | U     |
| $s_3(E)$                        | 8   | #3   | 2'-10"  | U     |
| $s_4(E)$                        | 6   | #4   | 9'-5"   | U     |
| $s_5(E)$                        | 8   | #4   | 8'-2"   | U     |
| $s_6(E)$                        | 8   | #4   | 9'-2"   | U     |
| $s_7(E)$                        | 8   | #4   | 7'-2"   | U     |
| $sp_2(E)$                       | 2   | #3   | 33'-7"  | W     |
| $sp_3(E)$                       | 2   | #3   | 14'-0"  | W     |
| $u_1(E)$                        | 8   | #4   | 6'-6"   | U     |
| $v_4(E)$                        | 16  | #9   | 33'-7"  | —     |
| $v_2(E)$                        | 16  | #9   | 8'-0"   | —     |
| $v_5(E)$                        | 16  | #9   | 17'-11" | —     |
| Structure Excavation            |     |      | Cu.Yd.  | 15.1  |
| Concrete Structures             |     |      | Cu.Yd.  | 8.6   |
| Reinforcement Bars Epoxy Coated |     |      | Pound   | 4,360 |
| Drilled Shafts in Soil          |     |      | Cu.Yd.  | 12.4  |

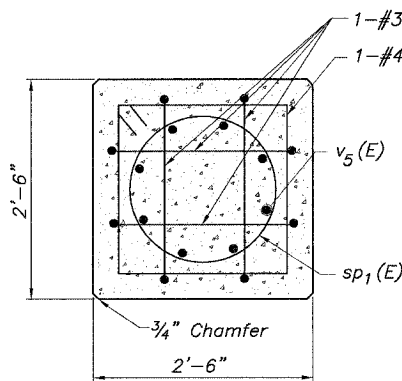
Reinf. bars designated (E) shall be Epoxy coated.



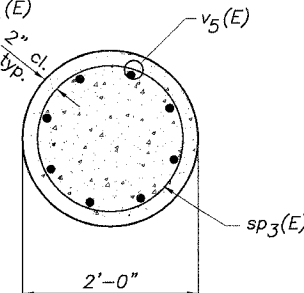
Bar  $h_4(E)$



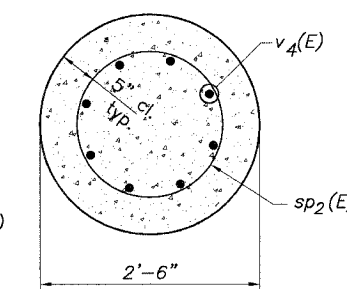
Bar  $h_5(E)$



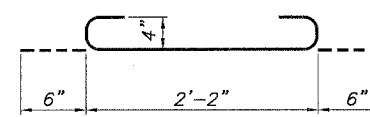
SECTION A-A



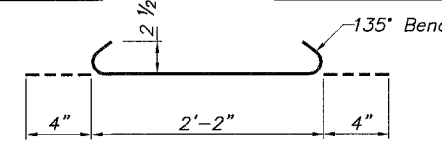
SECTION B-B



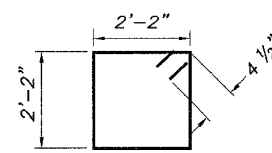
SECTION C-C



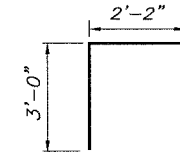
Bar  $s_2(E)$



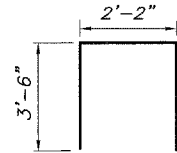
Bar  $s_3(E)$



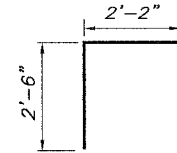
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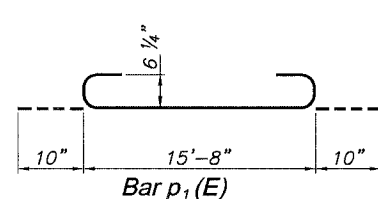
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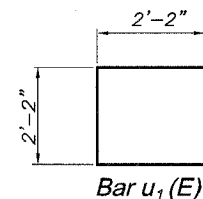
Bar  $s_6(E)$



Bar  $s_7(E)$



Bar  $p_1(E)$



Bar  $u_1(E)$

|          |     |
|----------|-----|
| DESIGNED | LRT |
| CHECKED  | JBF |
| DRAWN    | RAP |
| CHECKED  | JBF |

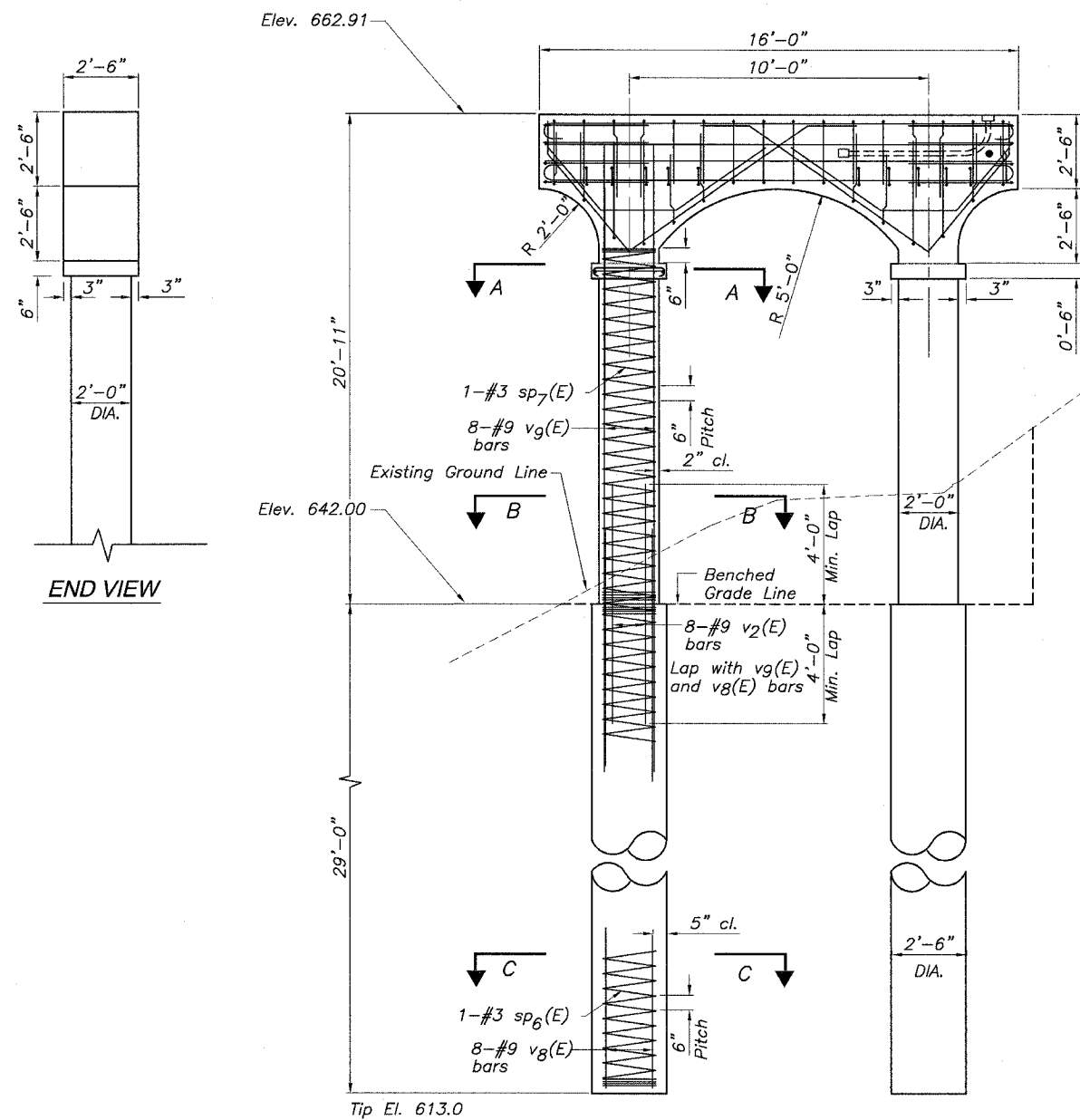
PIER #2 REINF. DETAILS

AUGUSTANA COLLEGE MULTI-USE BRIDGE  
SECTION 05-00174-00-BT  
PROJECT NO. HPP-4113-(001)  
CITY OF ROCK ISLAND  
ROCK ISLAND COUNTY



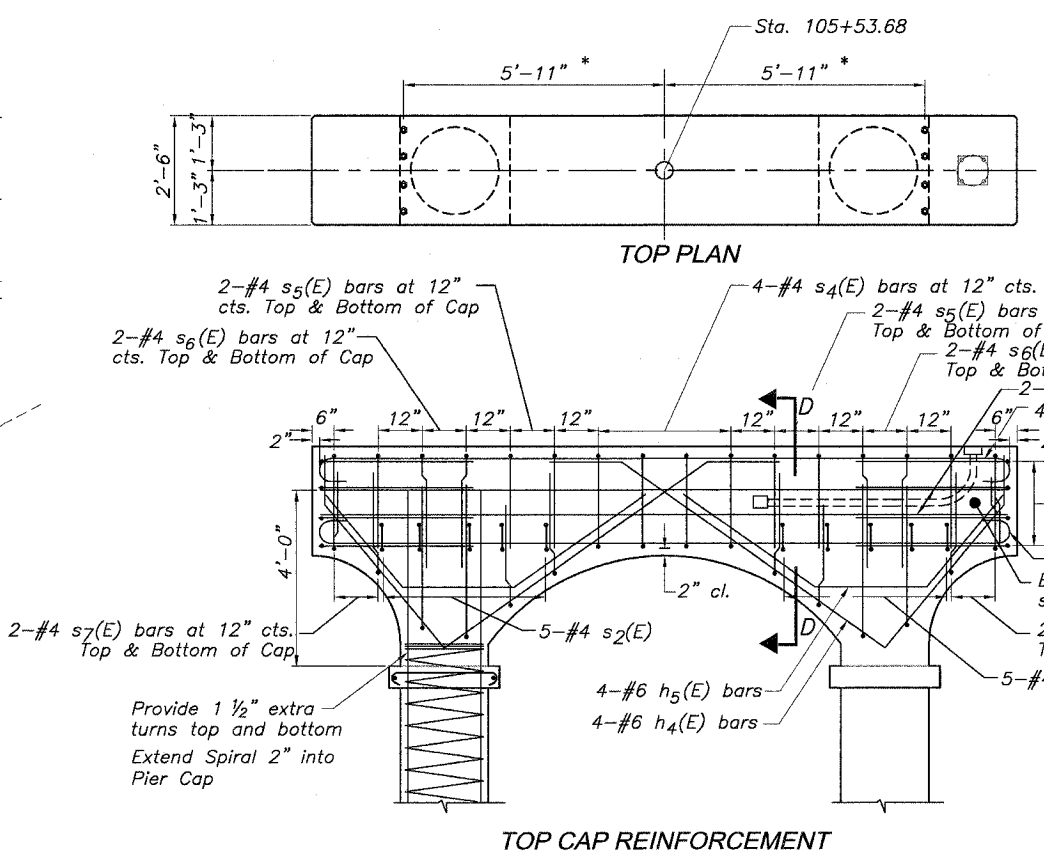
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

| ROUTE NO.  | SECTION | COUNTY      | TOTAL SHEETS | SHEET NO. | SHEET NO. 14 |
|--|---------|-------------|--------------|-----------|--------------|
| *  |         | ROCK ISLAND | 112          | 67        | 19 SHEETS    |
| FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT- |         |             |              |           |              |
| * 05-00174-00-BT                                 |         |             |              |           |              |



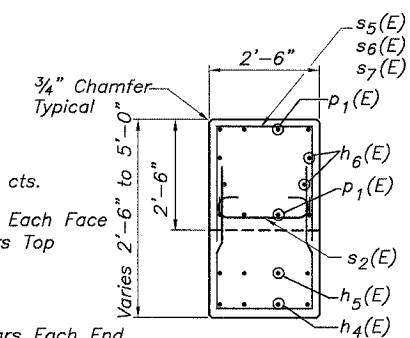
END VIEW

PIER ELEVATION

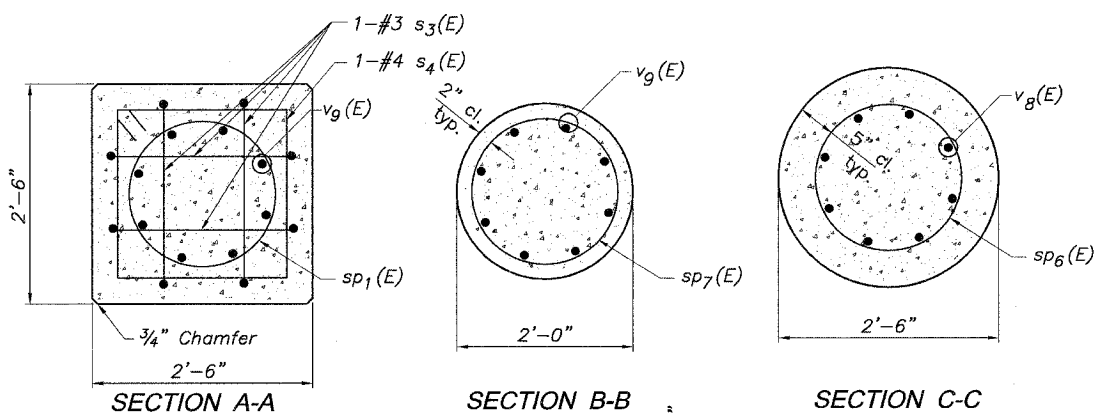


TOP CAP REINFORCEMENT

\* Final location of bolt pattern to be provided by bridge supplier



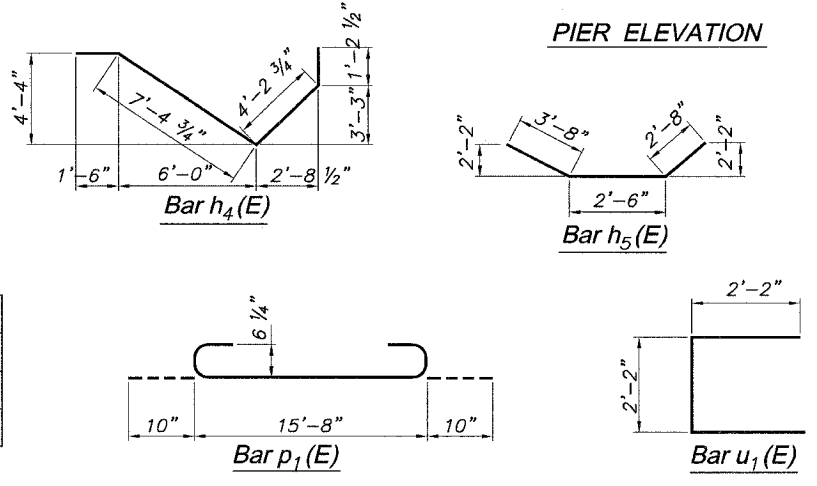
SECTION D-D



SECTION A-A

SECTION B-B

SECTION C-C



Bill of Material

| Bar                             | No.    | Size | Length  | Shape |
|---------------------------------|--------|------|---------|-------|
| h4(E)                           | 8      | #6   | 14'-4"  | U     |
| h5(E)                           | 8      | #6   | 8'-10"  | U     |
| h6(E)                           | 4      | #6   | 15'-8"  | U     |
| p1(E)                           | 8      | #7   | 17'-4"  | U     |
| s2(E)                           | 10     | #4   | 3'-2"   | U     |
| s3(E)                           | 8      | #3   | 2'-10"  | U     |
| s4(E)                           | 6      | #4   | 9'-5"   | U     |
| s5(E)                           | 8      | #4   | 8'-2"   | U     |
| s6(E)                           | 8      | #4   | 9'-2"   | U     |
| s7(E)                           | 8      | #4   | 7'-2"   | U     |
| sp6(E)                          | 2      | #3   | 28'-7"  | W     |
| sp7(E)                          | 2      | #3   | 16'-0"  | W     |
| u1(E)                           | 8      | #4   | 6'-6"   | U     |
| v8(E)                           | 16     | #9   | 28'-7"  | U     |
| v2(E)                           | 16     | #9   | 8'-0"   | U     |
| v9(E)                           | 16     | #9   | 19'-11" | U     |
| Structure Excavation            | Cu.Yd. |      | 13.4    |       |
| Concrete Structures             | Cu.Yd. |      | 9.4     |       |
| Reinforcement Bars Epoxy Coated | Pound  |      | 4,340   |       |
| Drilled Shafts in Soil          | Cu.Yd. |      | 10.5    |       |

Reinf. bars designated (E) shall be Epoxy coated.

PIER #4 REINF. DETAILS

AUGUSTANA COLLEGE MULTI-USE BRIDGE  
SECTION 05-00174-00-BT  
PROJECT NO. HPP-4113-(001)  
CITY OF ROCK ISLAND  
ROCK ISLAND COUNTY

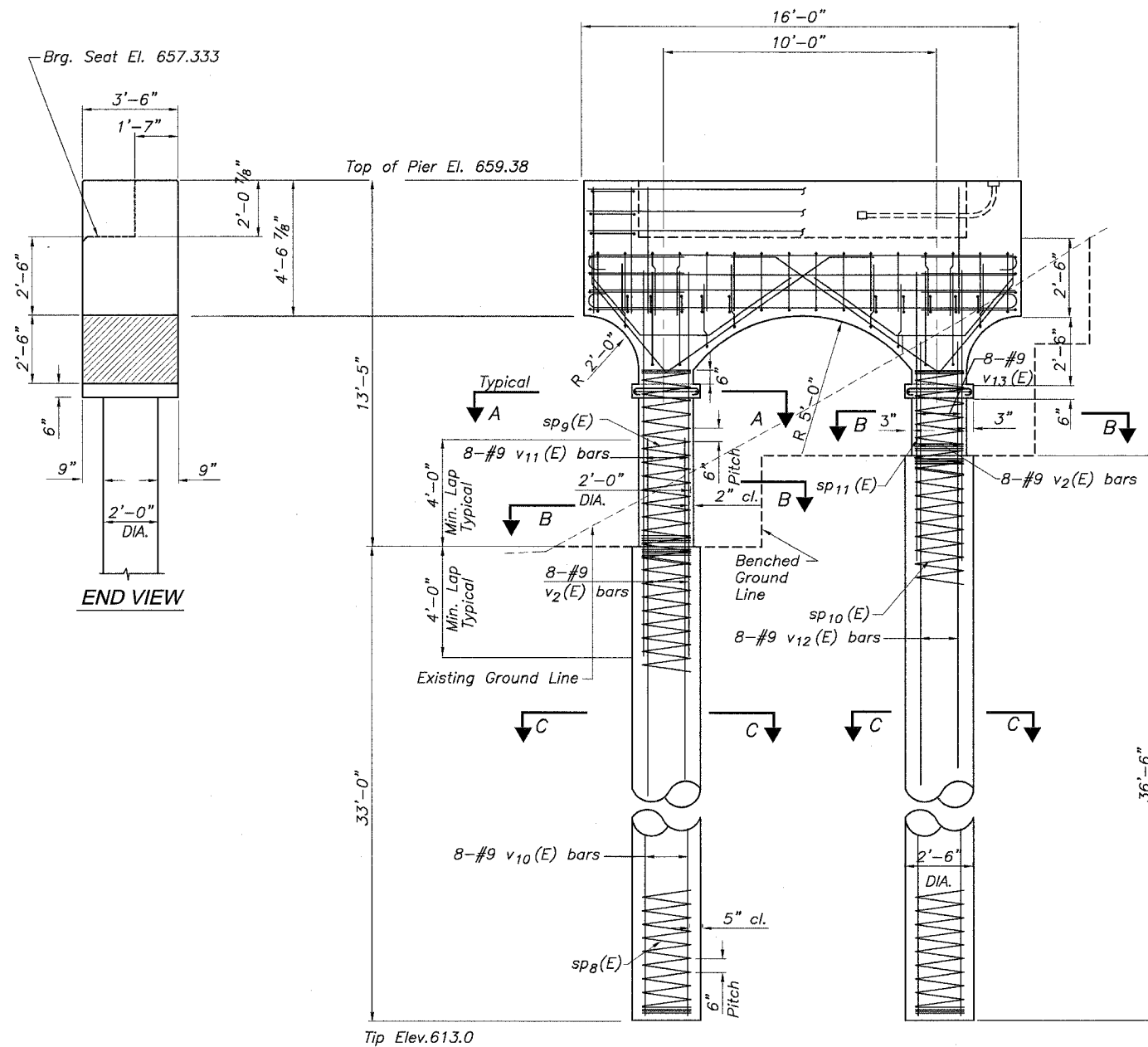
|          |     |
|----------|-----|
| DESIGNED | LRT |
| CHECKED  | JBF |
| DRAWN    | RAP |
| CHECKED  | JBF |

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

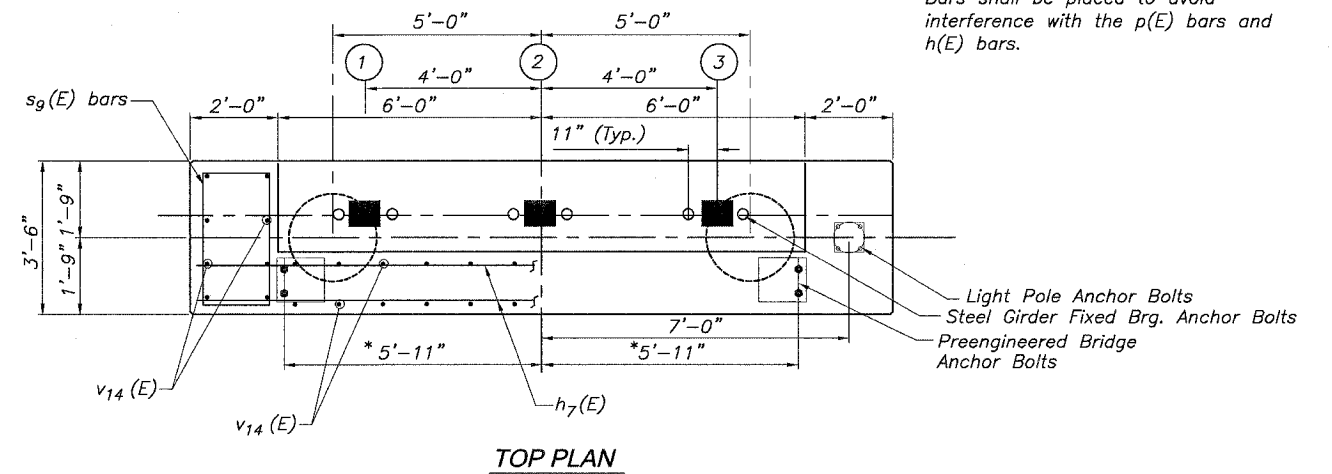
| ROUTE NO.   | SECTION     | COUNTY | TOTAL SHEETS | SHEET NO. | SHEET NO. 15 |
|---|-------------|--------|--------------|-----------|--------------|
| *   | ROCK ISLAND | 112    | 68           |           | 19 SHEETS    |
| FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT-- |             |        |              |           |              |
| * 05-00174-00-BT                                  |             |        |              |           |              |

\* Final location of bolt pattern to be provided by bridge supplier

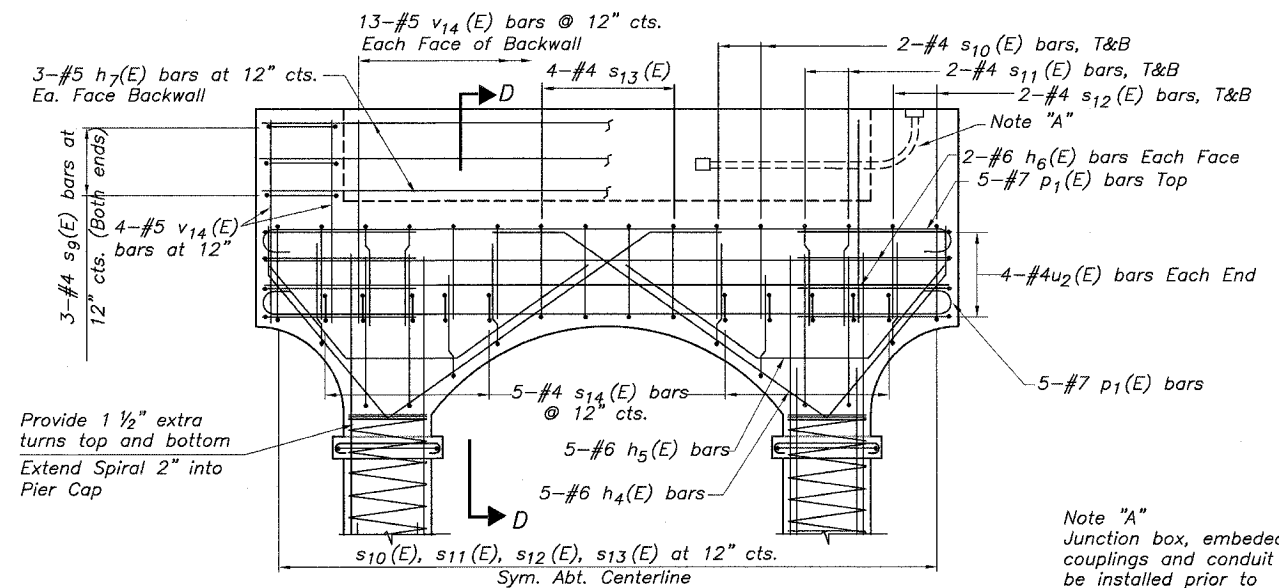
\*\* Bars shall be placed to avoid interference with the p(E) bars and h(E) bars.



PIER ELEVATION



TOP PLAN



TOP CAP REINFORCEMENT

Note "A"  
Junction box, embedded couplings and conduit to be installed prior to placement of concrete by Electrical contractor.

|          |     |
|----------|-----|
| DESIGNED | LRT |
| CHECKED  | JBF |
| DRAWN    | RAP |
| CHECKED  | JBF |

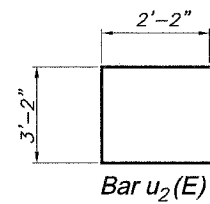
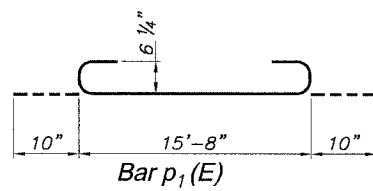
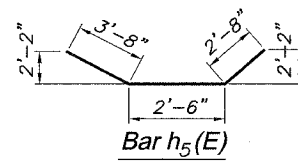
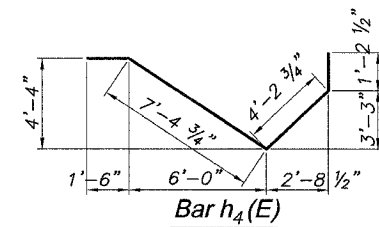
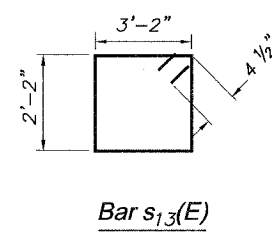
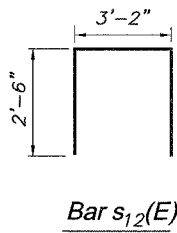
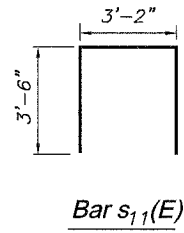
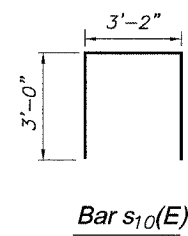
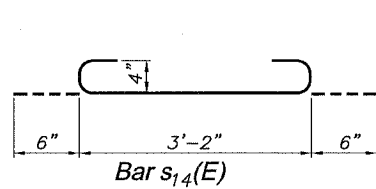
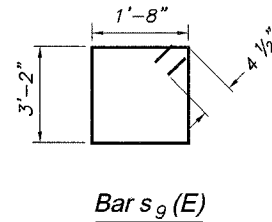
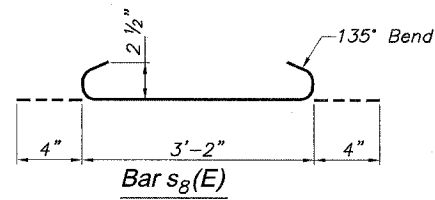
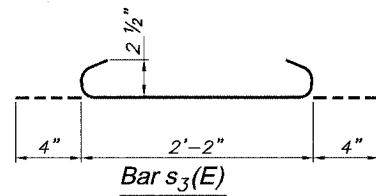
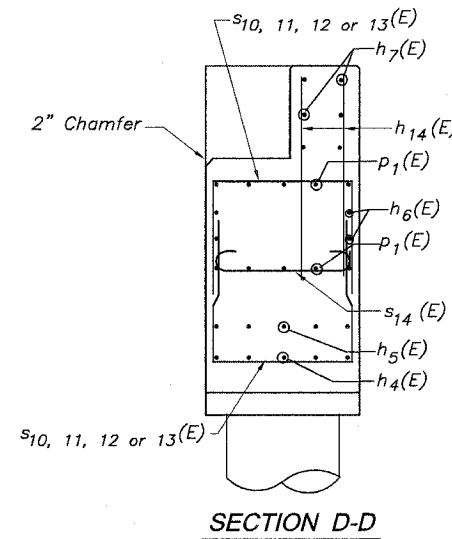
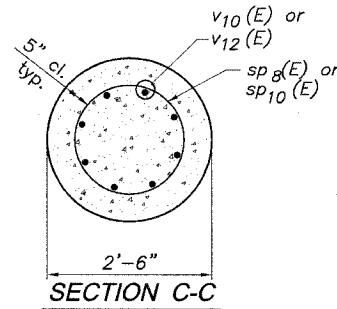
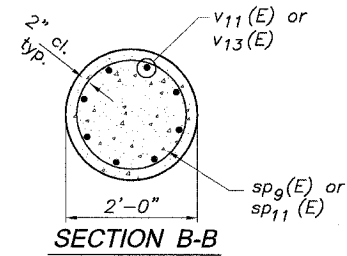
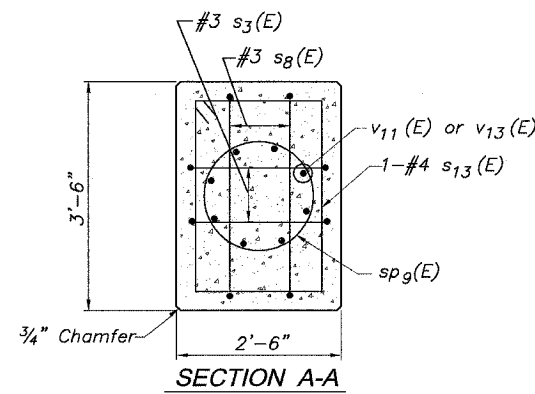
**PIER #5 REINF. DETAILS**  
AUGUSTANA COLLEGE MULTI-USE BRIDGE  
SECTION 05-00174-00-BT  
PROJECT NO. HPP-4113-(001)  
CITY OF ROCK ISLAND  
ROCK ISLAND COUNTY

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

| ROUTE NO.             | SECTION | COUNTY      | TOTAL SHEETS      | SHEET NO. |
|-----------------------|---------|-------------|-------------------|-----------|
|                       | *       | ROCK ISLAND | 112               | 69        |
| FED. ROAD DIST. NO. 7 |         | ILLINOIS    | FED. AID PROJECT- |           |

SHEET NO. 16  
19 SHEETS

\* 05-00174-00-BT



|          |     |
|----------|-----|
| DESIGNED | LRT |
| CHECKED  | JBF |
| DRAWN    | RAP |
| CHECKED  | JBF |

| Bar                                | No. | Size   | Length | Shape |
|------------------------------------|-----|--------|--------|-------|
| h4(E)                              | 10  | #6     | 14'-4" | U     |
| h5(E)                              | 10  | #6     | 8'-10" | U     |
| h6(E)                              | 4   | #6     | 15'-8" | U     |
| h7(E)                              | 6   | #5     | 15'-8" | U     |
| p1(E)                              | 10  | #7     | 17'-4" | U     |
| s3(E)                              | 4   | #3     | 2'-10" | U     |
| s8(E)                              | 4   | #3     | 3'-10" | U     |
| s9(E)                              | 6   | #4     | 10'-5" | U     |
| s10(E)                             | 8   | #4     | 9'-2"  | U     |
| s11(E)                             | 8   | #4     | 10'-2" | U     |
| s12(E)                             | 8   | #4     | 8'-2"  | U     |
| s13(E)                             | 4   | #4     | 11'-5" | U     |
| s14(E)                             | 10  | #4     | 4'-2"  | U     |
| sp8(E)                             | 1   | #3     | 32'-7" | W     |
| sp9(E)                             | 1   | #3     | 6'-5"  | W     |
| sp10(E)                            | 1   | #3     | 36'-1" | W     |
| sp11(E)                            | 1   | #3     | 2'-11" | W     |
| u2(E)                              | 8   | #4     | 7'-6"  | U     |
| v10(E)                             | 8   | #9     | 32'-7" | U     |
| v11(E)                             | 8   | #9     | 10'-4" | U     |
| v12(E)                             | 8   | #9     | 36'-1" | U     |
| v13(E)                             | 8   | #9     | 6'-10" | U     |
| v14(E)                             | 42  | #5     | 4'-6"  | U     |
| v2(E)                              | 16  | #9     | 8'-0"  | U     |
| Structure Excavation               |     | Cu.Yd. | 13.6   |       |
| Concrete Structures                |     | Cu.Yd. | 11.2   |       |
| Reinforcement Bars<br>Epoxy Coated |     | Pound  | 4,500  |       |
| Drilled Shafts in Soil             |     | Cu.Yd. | 12.6   |       |

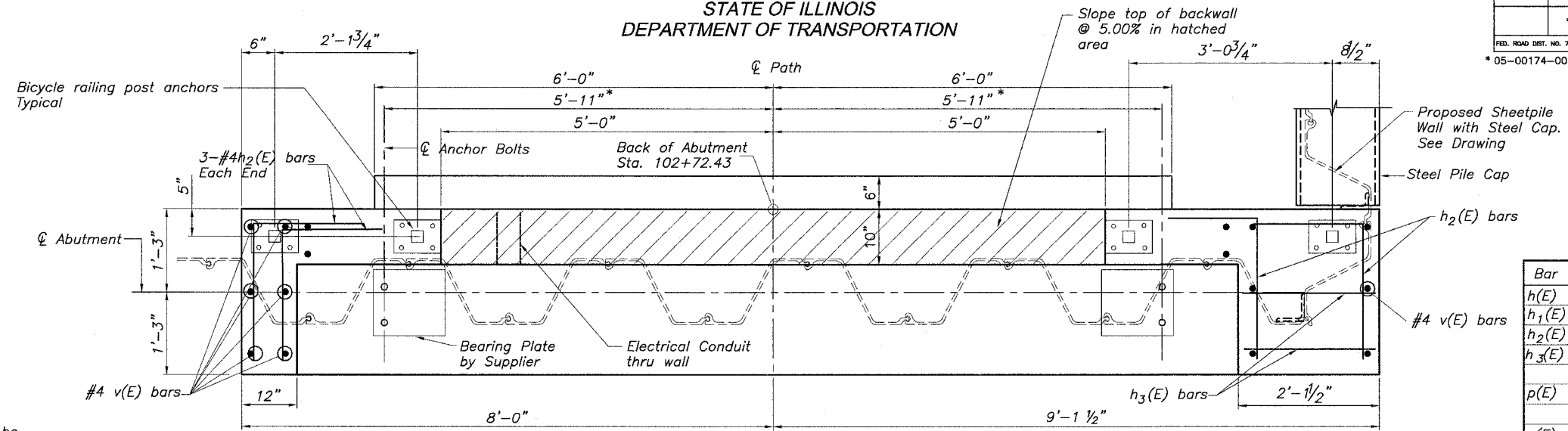
Reinf. bars designated (E) shall be Epoxy coated.

**PIER #5 REINF. DETAILS**  
AUGUSTANA COLLEGE MULTI-USE BRIDGE  
SECTION 05-00174-00-BT  
PROJECT NO. HPP-4113-(001)  
CITY OF ROCK ISLAND  
ROCK ISLAND COUNTY

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

|                       |         |             |                   |           |                           |
|-----------------------|---------|-------------|-------------------|-----------|---------------------------|
| ROUTE NO.             | SECTION | COUNTY      | TOTAL SHEETS      | SHEET NO. | SHEET NO. 17<br>19 SHEETS |
| *                     | *       | ROCK ISLAND | 112               | 70        |                           |
| FED. ROAD DIST. NO. 7 |         | ILLINOIS    | FED. AID PROJECT- |           |                           |

\* 05-00174-00-BT



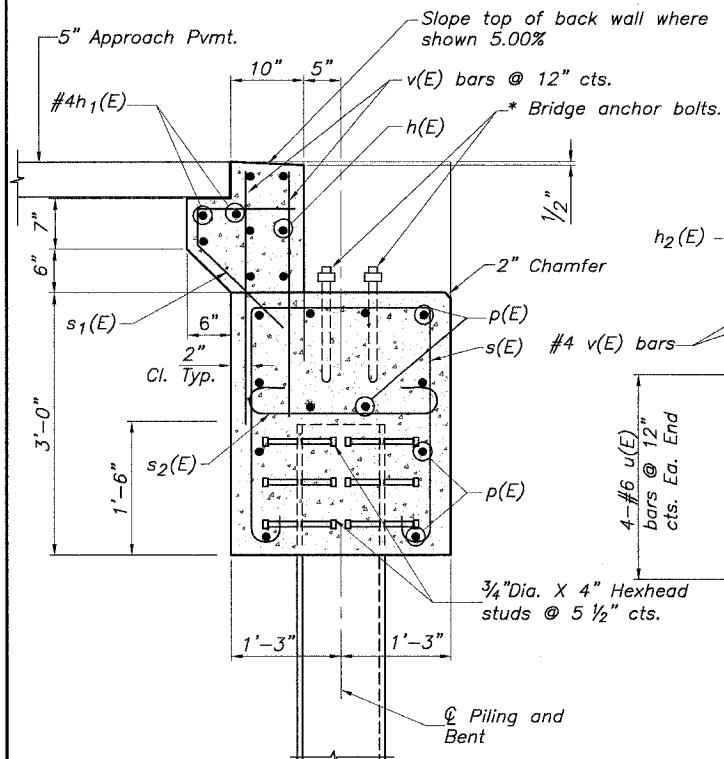
TOP PLAN

\* Final location of anchor bolts shall be provided by supplier of pedestrian bridge and detailed on shop drawings

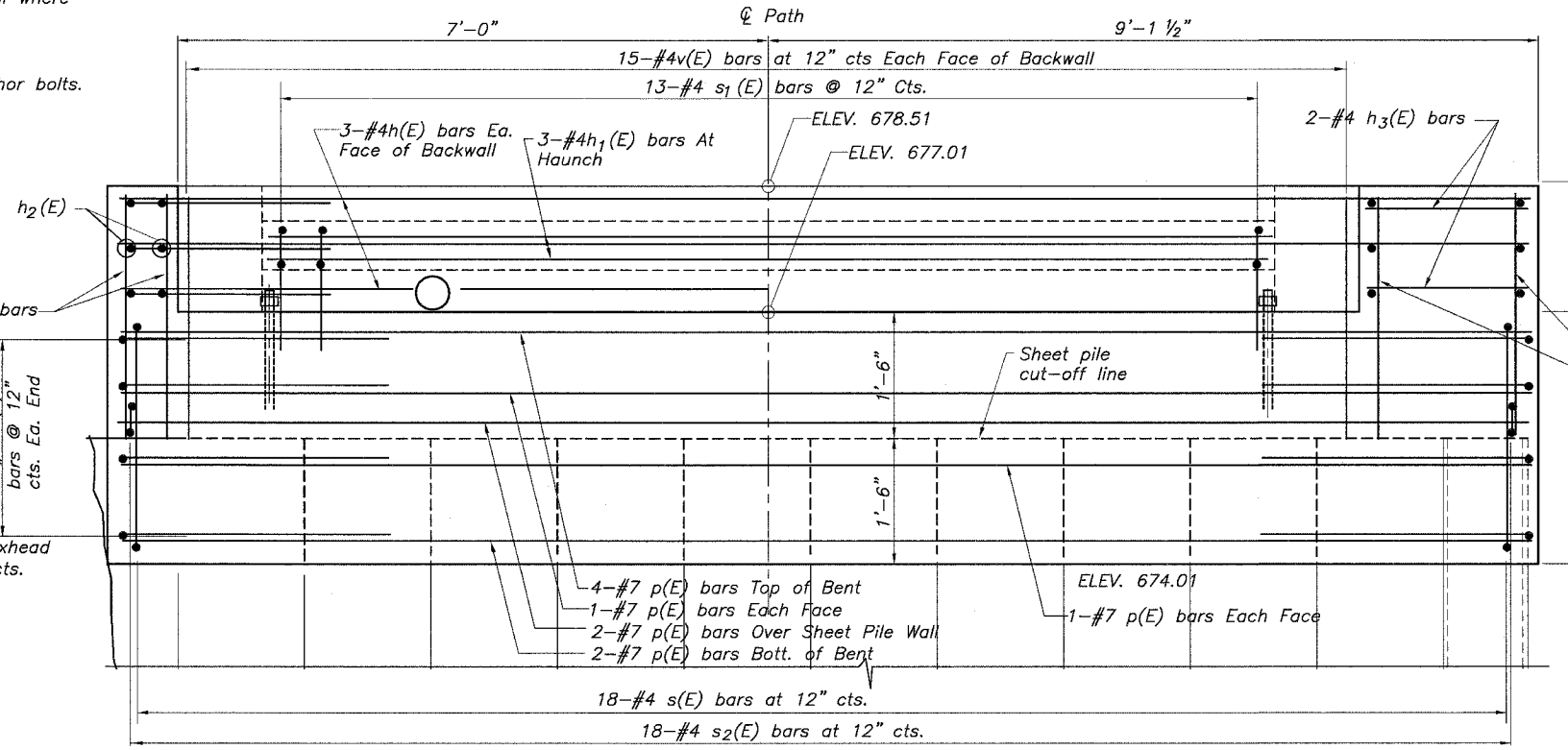
**Bill of Material  
South Abutment**

| Bar                             | No. | Size   | Length  | Shape |
|---------------------------------|-----|--------|---------|-------|
| h(E)                            | 6   | #4     | 16'-10" | —     |
| h <sub>1</sub> (E)              | 3   | #4     | 11'-8"  | —     |
| h <sub>2</sub> (E)              | 12  | #4     | 4'-4"   | ┌     |
| h <sub>3</sub> (E)              | 4   | #4     | 1'-10"  | —     |
| p(E)                            | 12  | #7     | 16'-10" | —     |
| s(E)                            | 18  | #4     | 8'-6"   | ┌     |
| s <sub>1</sub> (E)              | 13  | #4     | 2'-6"   | ┌     |
| s <sub>2</sub> (E)              | 18  | #4     | 3'-2"   | ┌     |
| u(E)                            | 8   | #6     | 6'-6"   | ┌     |
| v(E)                            | 27  | #4     | 4'-2"   | —     |
| Concrete Structures             |     | Cu.Yd. | 6.0     |       |
| Reinforcement Bars Epoxy Coated |     | Pound  | 860     |       |
| Shear Stud Connectors           |     | Each   | 144     |       |

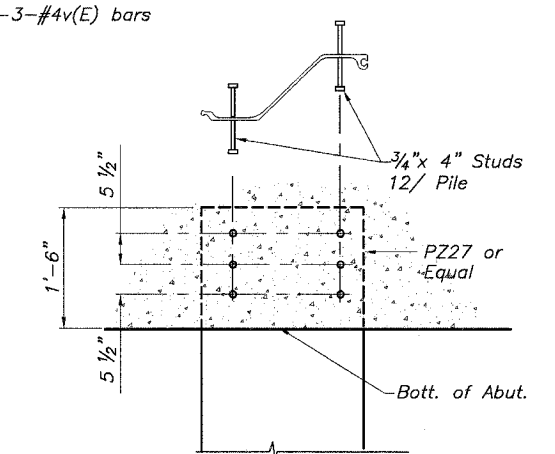
Reinf. bars designated (E) shall be Epoxy coated.



SECTION AT ABUTMENT

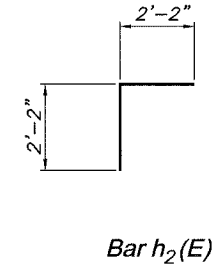
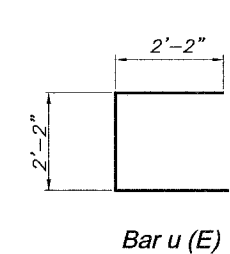
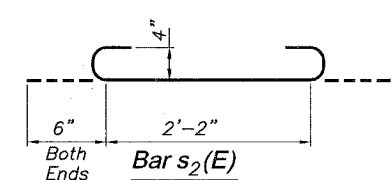
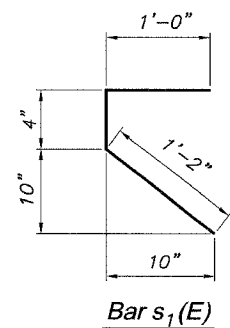
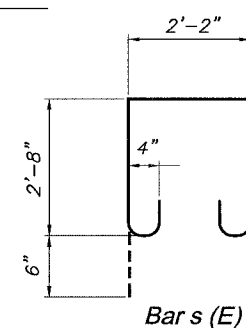


ABUTMENT ELEVATION



SHEAR STUD DETAIL

|          |     |
|----------|-----|
| DESIGNED | LRT |
| CHECKED  | JBF |
| DRAWN    | RAP |
| CHECKED  | JBF |



**SOUTH ABUTMENT DETAILS**

AUGUSTANA COLLEGE MULTI-USE BRIDGE  
SECTION 05-00174-00-BT  
PROJECT NO. HPP-4113-(001)  
CITY OF ROCK ISLAND  
ROCK ISLAND COUNTY

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

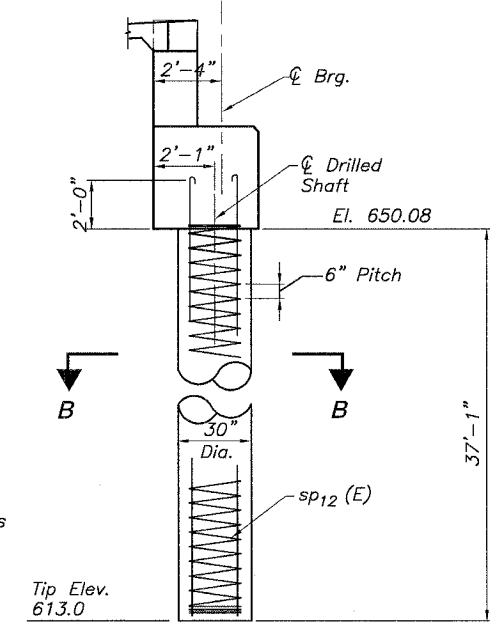
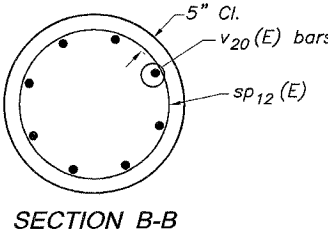
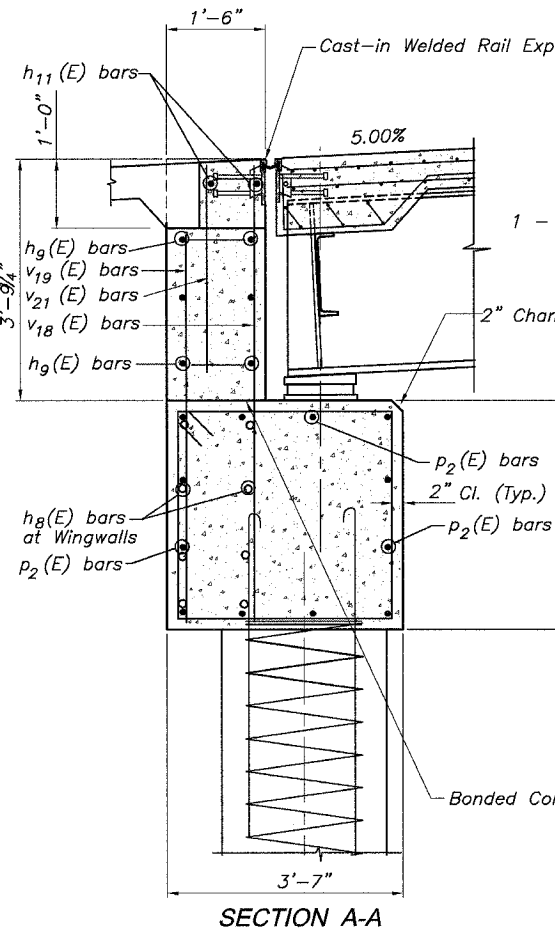
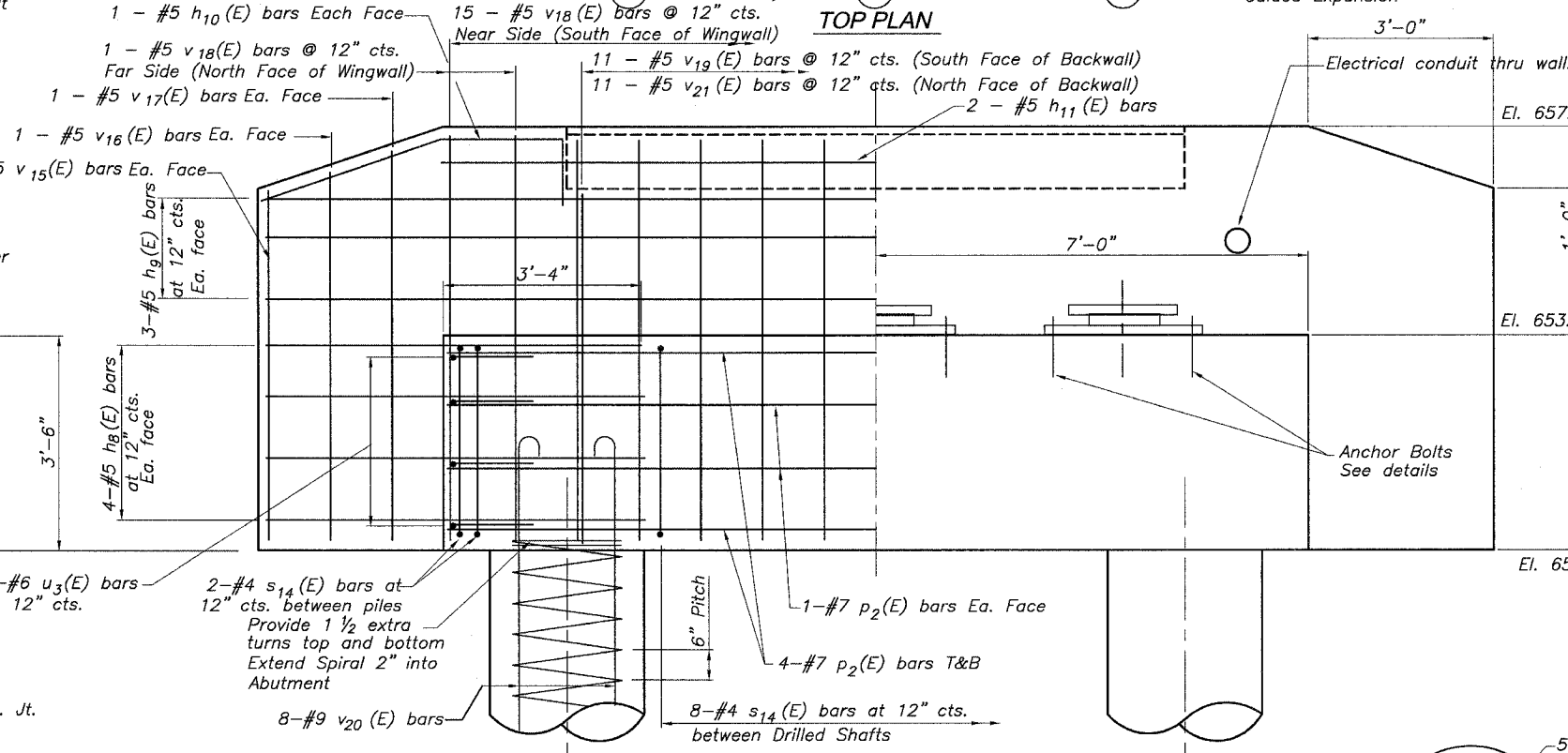
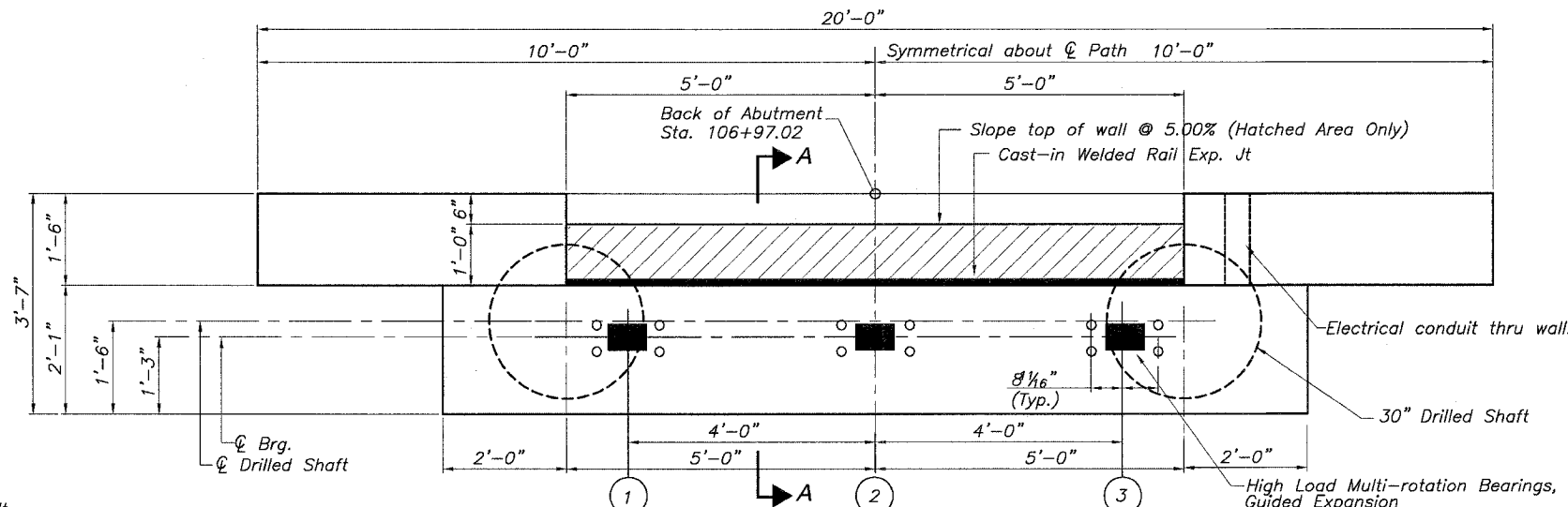
| ROUTE NO.  | SECTION | COUNTY      | TOTAL SHEETS | SHEET NO. | SHEET NO. 18 |
|--|---------|-------------|--------------|-----------|--------------|
| *  | *       | ROCK ISLAND | 112          | 71        | 19 SHEETS    |
| FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT- |         |             |              |           |              |

\* 05-00174-00-BT

Bill of Material North Abutment

| Bar                             | No.    | Size | Length | Shape |
|---------------------------------|--------|------|--------|-------|
| h <sub>8</sub> (E)              | 16     | #5   | 6'-2"  | —     |
| h <sub>9</sub> (E)              | 6      | #5   | 19'-8" | —     |
| h <sub>10</sub> (E)             | 2      | #5   | 6'-4"  | —     |
| h <sub>11</sub> (E)             | 4      | #5   | 14'-0" | —     |
| p <sub>2</sub> (E)              | 12     | #7   | 13'-8" | —     |
| s <sub>14</sub> (E)             | 12     | #4   | 13'-7" | —     |
| sp <sub>12</sub> (E)            | 2      | #3   | 37'-0" | —     |
| u <sub>3</sub> (E)              | 8      | #6   | 7'-6"  | —     |
| v <sub>15</sub> (E)             | 4      | #5   | 5'-9"  | —     |
| v <sub>16</sub> (E)             | 4      | #5   | 6'-1"  | —     |
| v <sub>17</sub> (E)             | 4      | #5   | 6'-5"  | —     |
| v <sub>18</sub> (E)             | 19     | #5   | 6'-10" | —     |
| v <sub>19</sub> (E)             | 11     | #5   | 5'-10" | —     |
| v <sub>20</sub> (E)             | 16     | #9   | 40'-3" | —     |
| v <sub>21</sub> (E)             | 11     | #5   | 3'-6"  | —     |
| Concrete Structures             | Cu.Yd. |      | 11.4   |       |
| Reinforcement Bars Epoxy Coated | Pound  |      | 3,650  |       |
| Drilled Shafts in Soil          | Cu.Yd. |      | 13.5   |       |

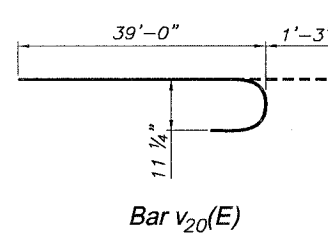
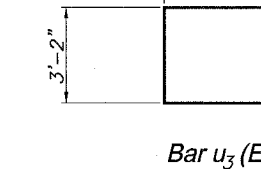
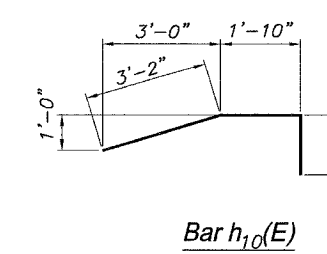
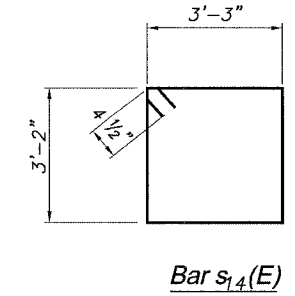
Reinf. Bars indicated (E) shall be Epoxy Coated



**DRILLED SHAFT ELEVATION**  
(Showing Reinf.)

**NORTH ABUTMENT DETAILS**  
AUGUSTANA COLLEGE MULTI-USE BRIDGE  
SECTION 05-00174-00-BT  
PROJECT NO. HPP-4113-(001)  
CITY OF ROCK ISLAND  
ROCK ISLAND COUNTY

|          |     |
|----------|-----|
| DESIGNED | LRT |
| CHECKED  | JBF |
| DRAWN    | RAP |
| CHECKED  | JBF |



STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

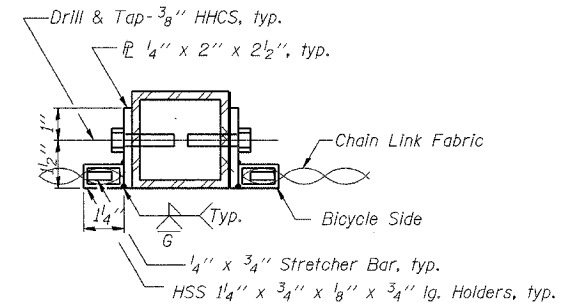
|                       |             |          |                  |           |                           |
|-----------------------|-------------|----------|------------------|-----------|---------------------------|
| ROUTE NO.             | SECTION     | COUNTY   | DIST.            | SHEET NO. | SHEET NO. 19<br>19 SHEETS |
| #                     | ROCK ISLAND | 112      | 72               |           |                           |
| FED. ROAD DIST. NO. 7 |             | ILLINOIS | FED. AID PROJECT |           |                           |

\* 05-00174-00-BT

**NOTES**

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 Bicycle Railing.  
The 9 gauge fabric ties shall be according to Article 1006.27 (d) of the Standard Specifications.  
Installation of the chain link fabric shall be according to Section 664 of the Standard Specifications.  
Hollow structural sections shall conform to the requirements of ASTM designation A 500, Grade B, structural steel tubing.  
All other steel shapes and plates shall conform to the requirements of AASHTO M 270 Grade 36.  
The chain link fabric shall be placed along Bicycle Side as shown on Section A-A.  
Stretcher bars shall be used at all four sides of each panel.  
If the option of drilling and epoxy grouting the anchor rods is chosen, the Contractor shall use the capsule or the adhesive cartridge type anchor rods that have been previously tested and given a prior approval by the Department. The Contractor shall install these anchor rods in pre-drilled holes according to the manufacturer's recommendations and procedures. The capsule or the adhesive cartridge shall be sealed with pre-measured amounts of the adhesive chemical.  
Space reinforcement to miss anchor rods.

All post, railing, splices, anchor devices, and bent plates shall be painted. See Special Provisions.  
The chain link fabric shall conform to the requirements of Article 1006.27(a)(1)(d) of the Standard Spec's.



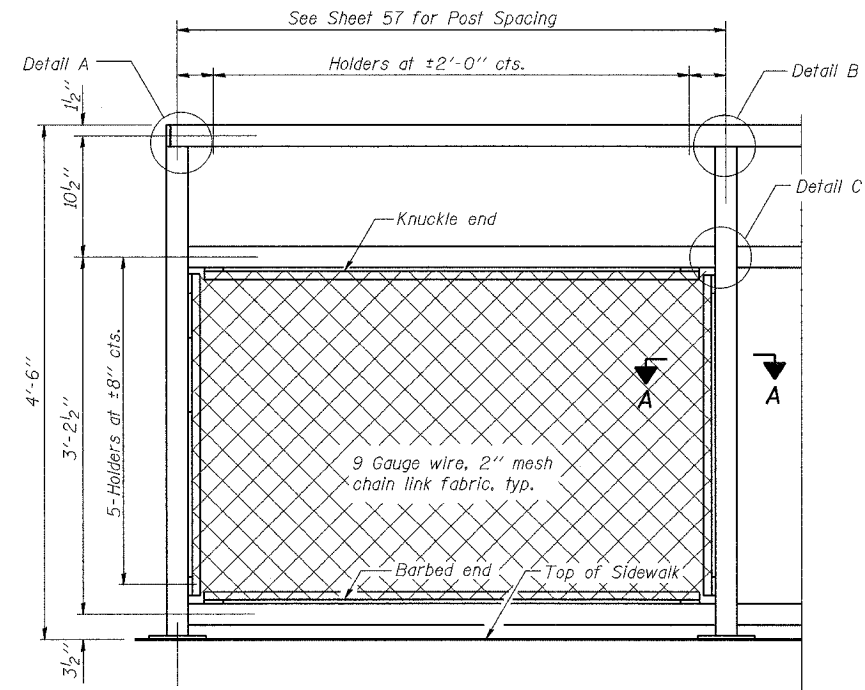
**SECTION A-A**

**BILL OF MATERIAL**

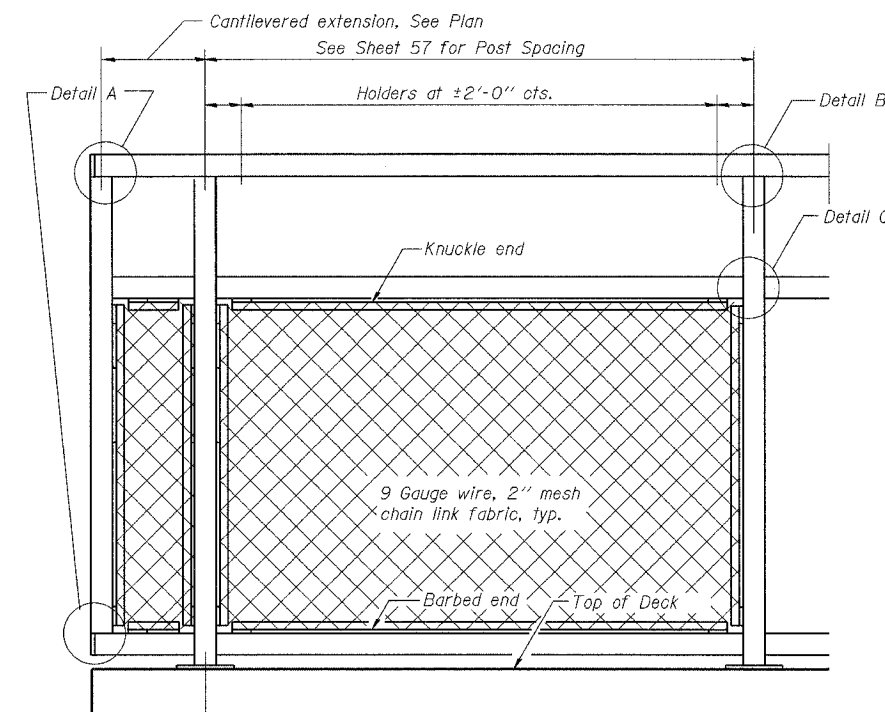
| Item            | Unit | Quantity |
|-----------------|------|----------|
| Bicycle Railing | Foot | 140      |

**BICYCLE RAILING**

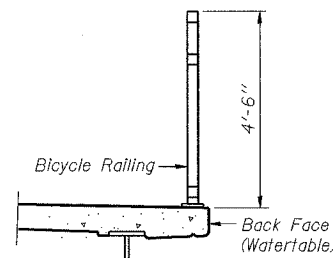
AUGUSTANA COLLEGE MULTI-USE BRIDGE  
SECTION 05-00174-00-BT  
PROJECT NO. HPP-4113-(001)  
CITY OF ROCK ISLAND  
ROCK ISLAND COUNTY



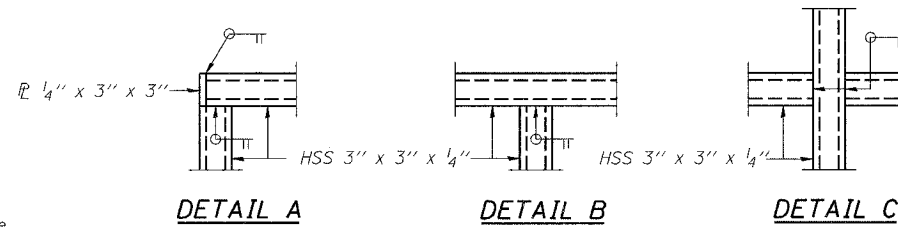
**BICYCLE RAILING**



**BICYCLE RAILING**



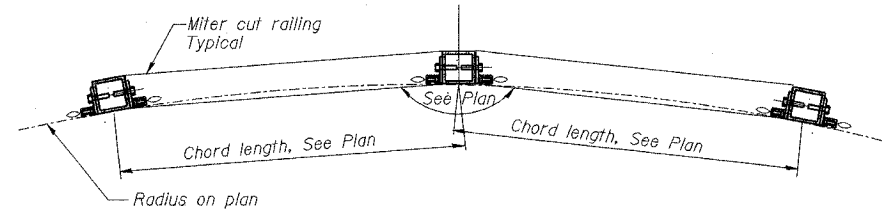
**SECTION THRU DECK**



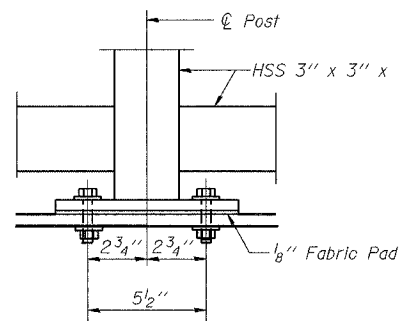
**DETAIL A**

**DETAIL B**

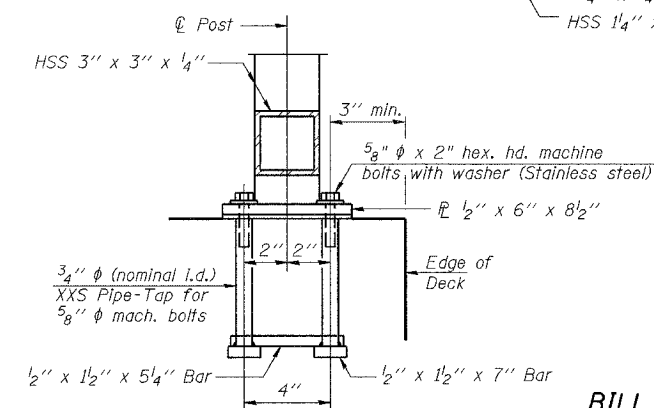
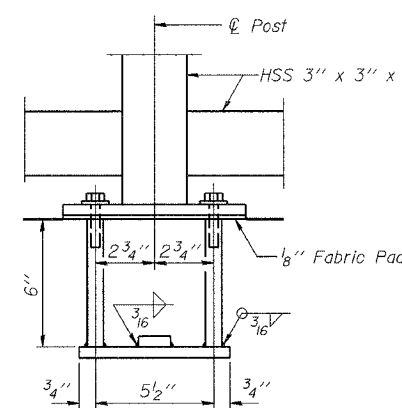
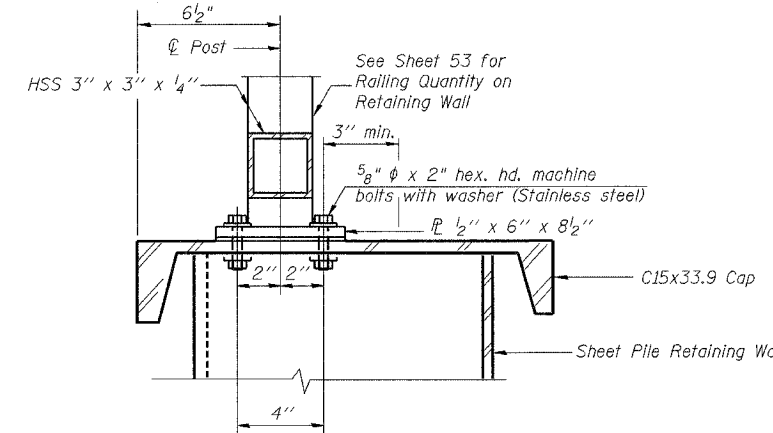
**DETAIL C**



**RAILING DETAIL ON RADIUS**

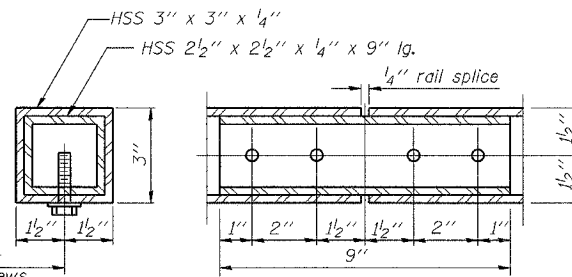


**BASE PL**



**ANCHOR BOLT DETAILS**

In lieu of the cast-in-place anchor device shown, the Contractor has the option of drilling and epoxy grouting 5/8\"/>



**RAIL SPLICE**

|          |     |
|----------|-----|
| DESIGNED | LRT |
| CHECKED  | JBF |
| DRAWN    | RAP |
| CHECKED  | JBF |

R-29

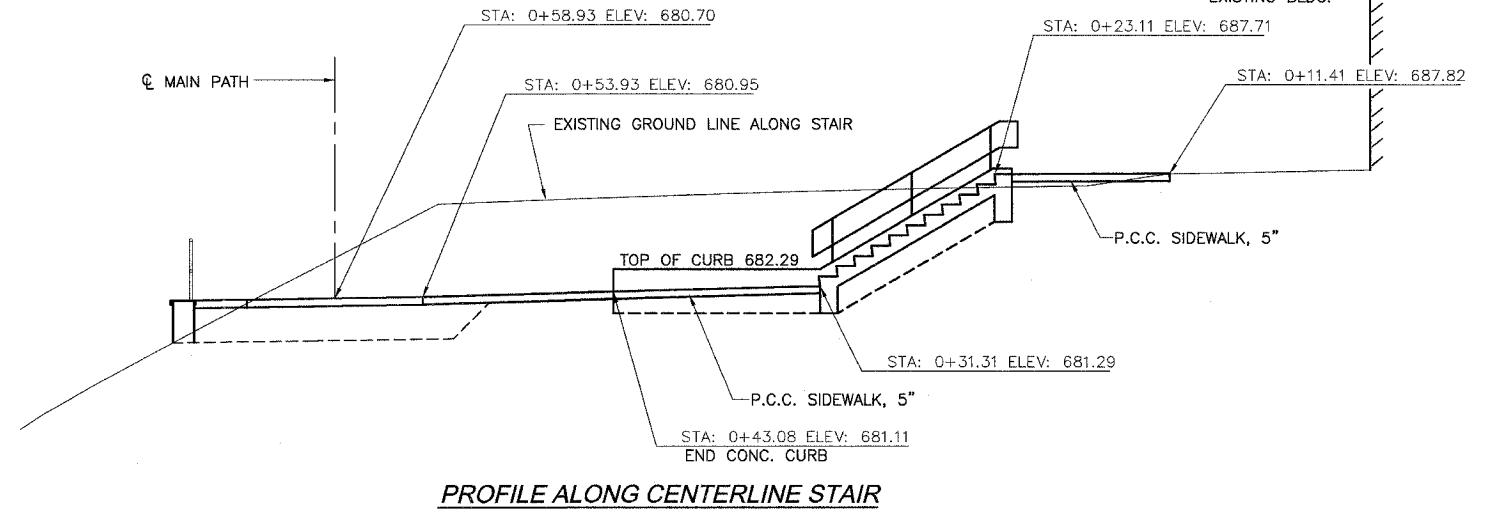
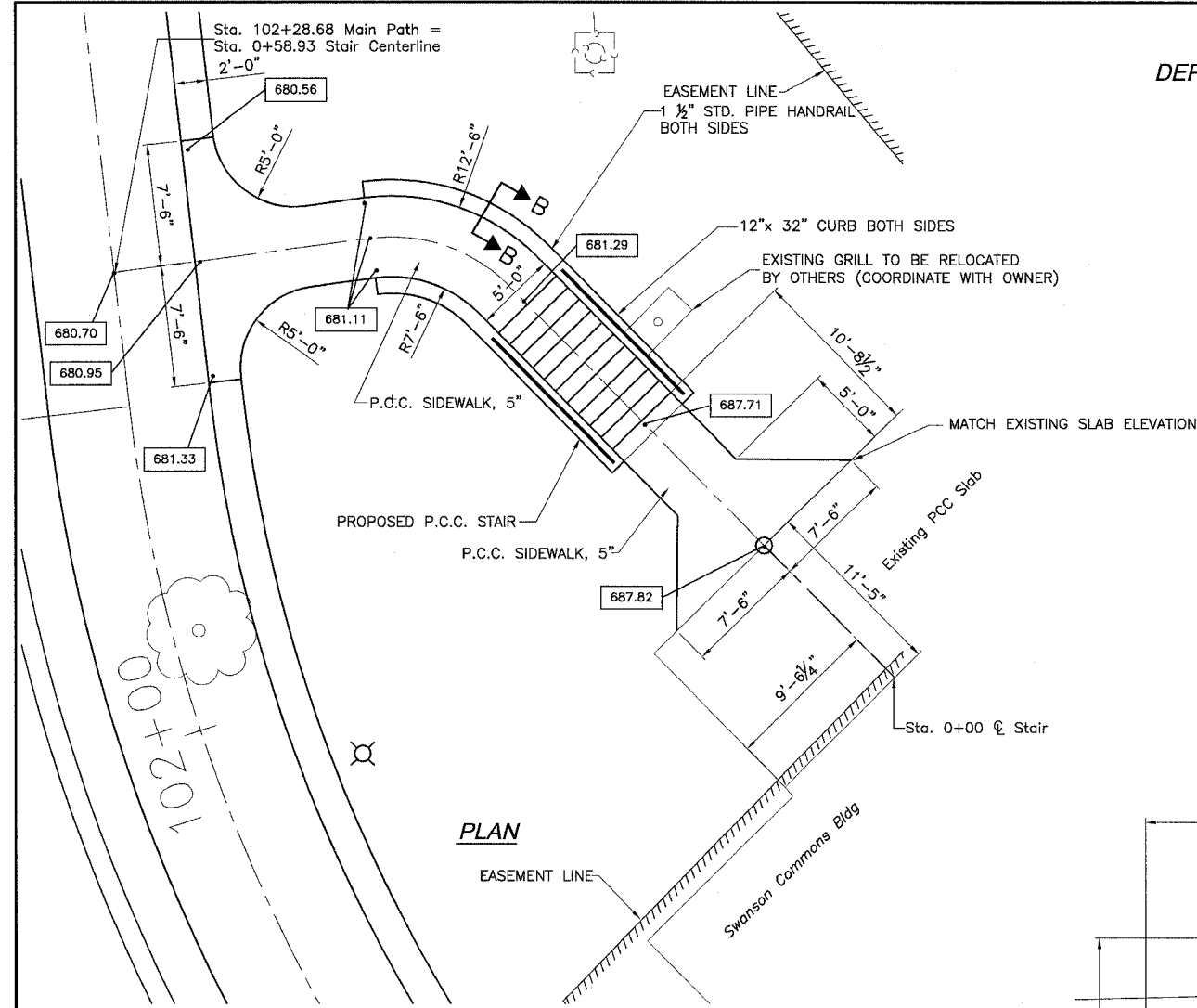
10-22-04 (10'-0\"/>



STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

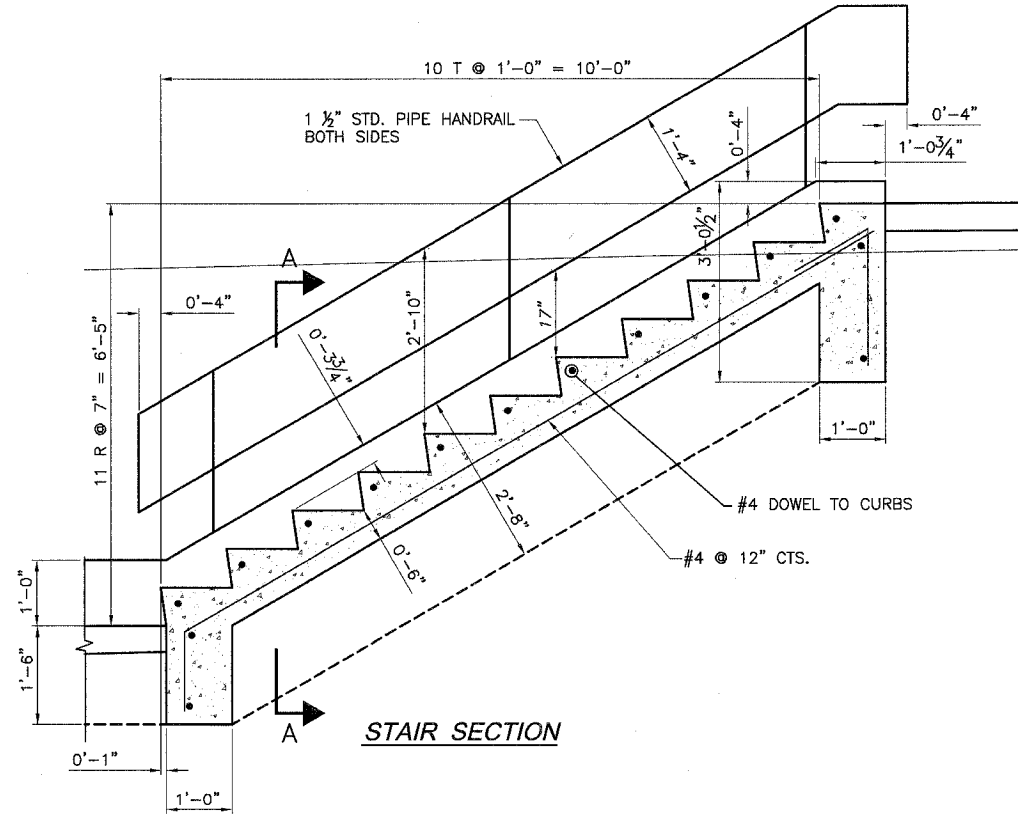
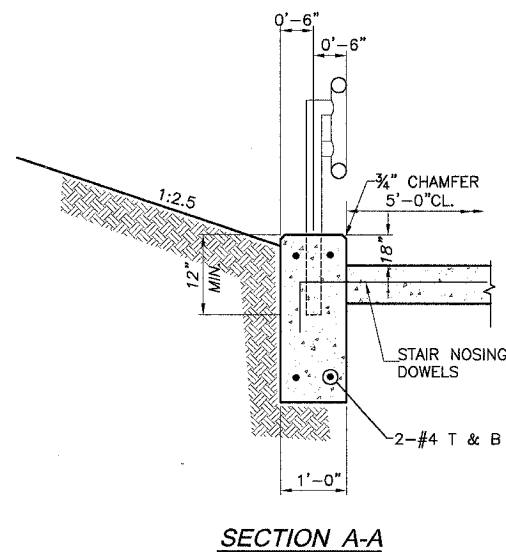
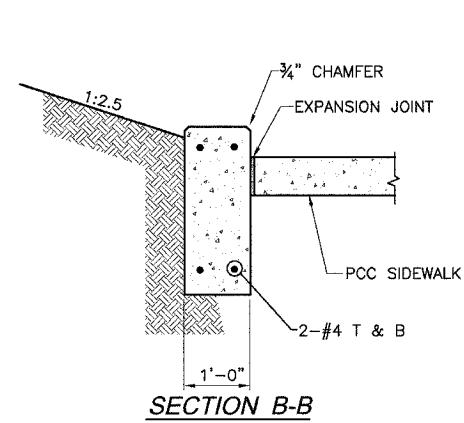
| ROUTE NO.  | SECTION | COUNTY      | TOTAL SHEETS | SHEET NO. |
|--|---------|-------------|--------------|-----------|
| C.H. 13  | *       | ROCK ISLAND | 112          | 73        |
| FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT- |         |             |              |           |

\* 05-00174-00-BT



General Notes:

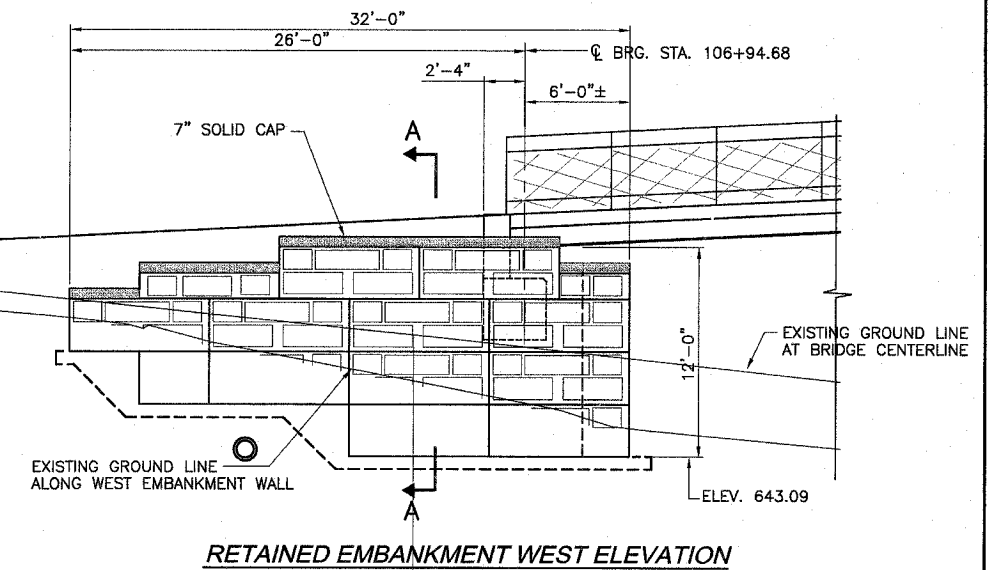
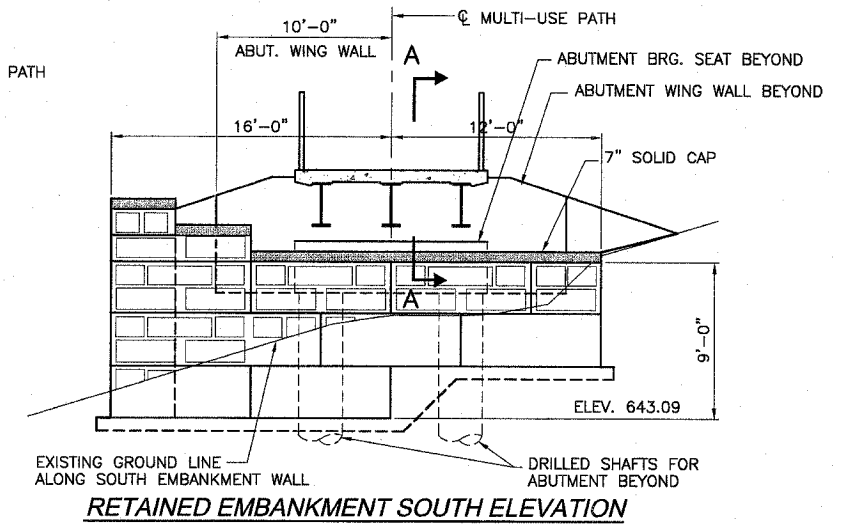
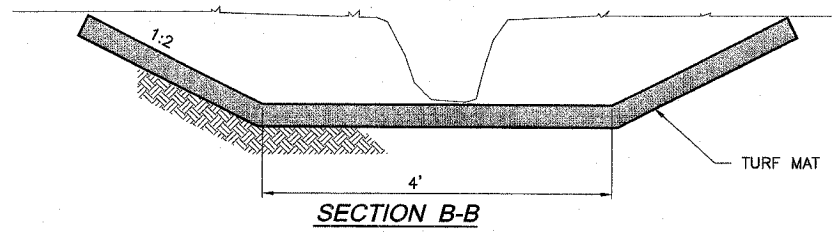
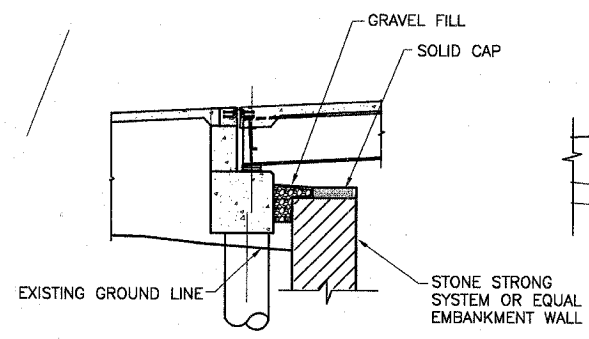
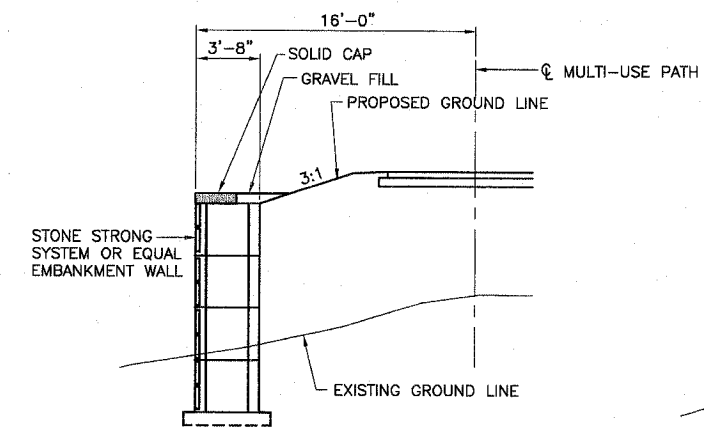
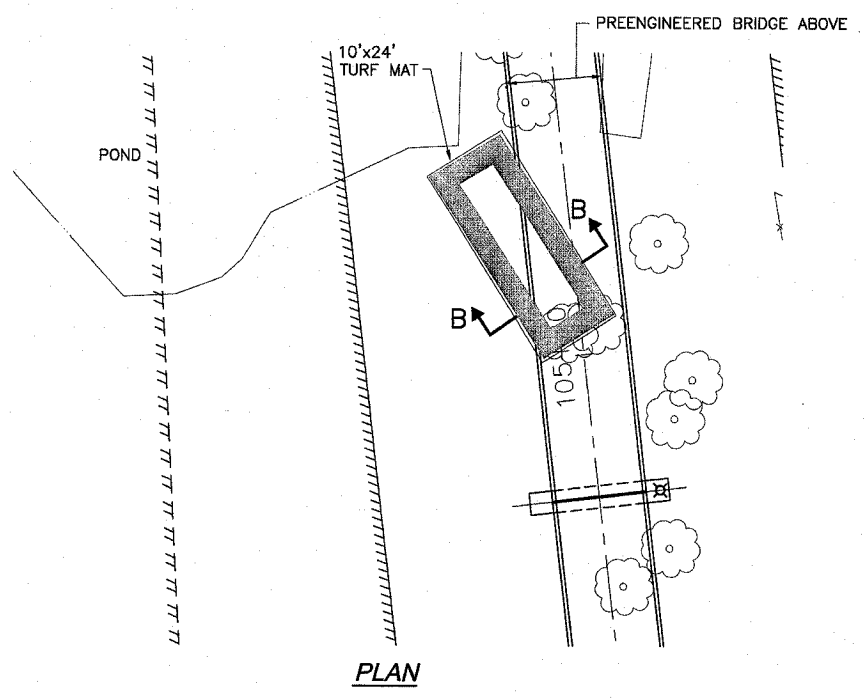
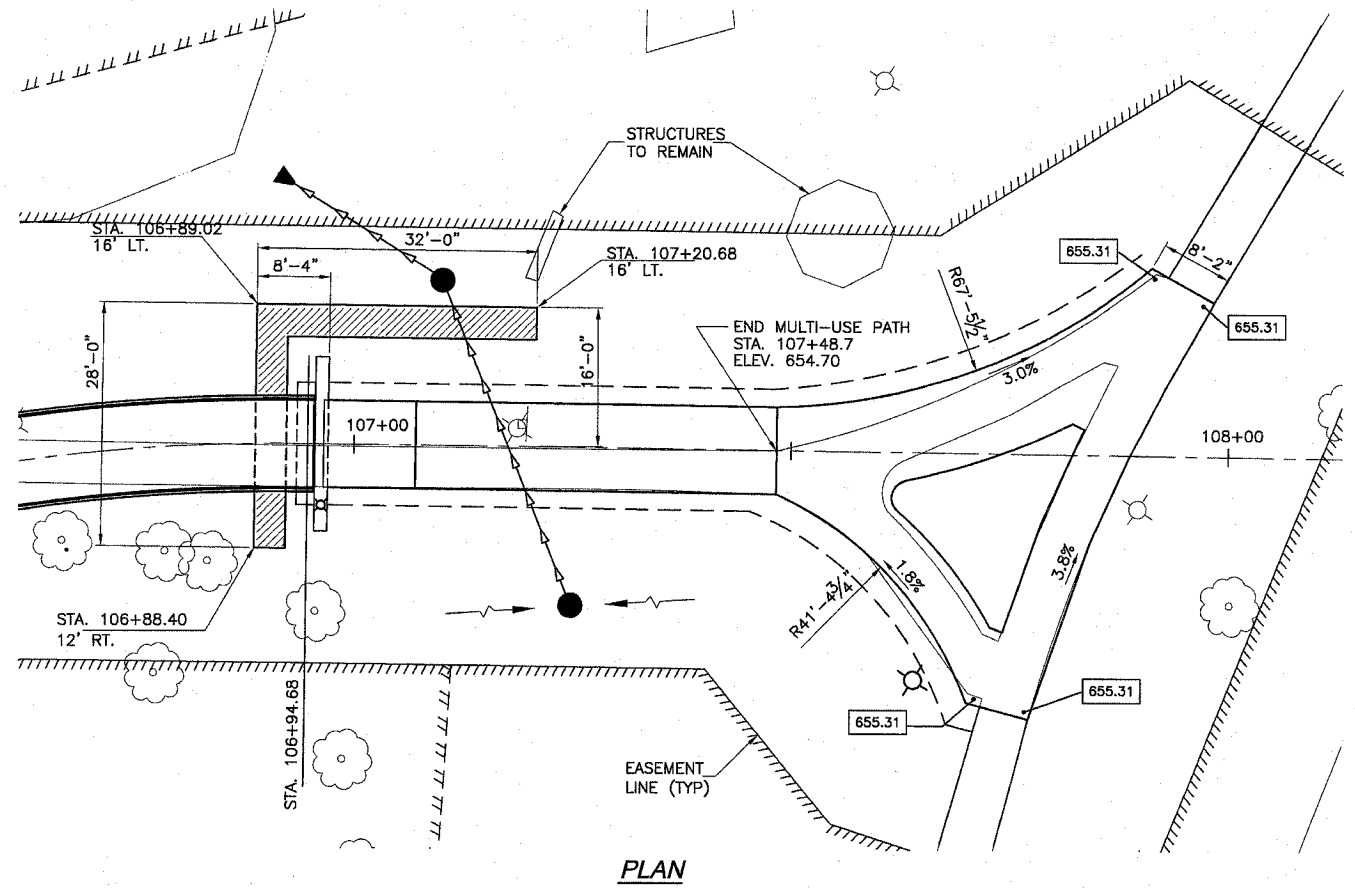
1. The steel pipe railing shall be painted according to Section 506 and the special provision CLEANING & PAINTING NEW METAL STRUCTURES, using the organic zinc rich primer/epoxy/urethane paint system. The color of the final finish coat for the railing shall be reddish brown, Munsell 2.5YR 3/4.
2. The reinforcement as shown in the stairs and curbs shall be epoxy coated.



|          |     |
|----------|-----|
| DESIGNED | MHM |
| CHECKED  | JBF |
| DRAWN    | RAP |
| CHECKED  | JBF |

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

| ROUTE NO.  | SECTION | COUNTY      | TOTAL SHEETS | SHEET NO. |
|--|---------|-------------|--------------|-----------|
|  | *       | ROCK ISLAND | 112          | 74        |
| FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT- |         |             |              |           |
| * 00-00000-00-BR                                 |         |             |              |           |



|          |     |
|----------|-----|
| DESIGNED | MHM |
| CHECKED  | JBF |
| DRAWN    | RAP |
| CHECKED  | JBF |



|                     |                           |             |              |           |
|---------------------|---------------------------|-------------|--------------|-----------|
| F.A. RTE.           | SECTION                   | COUNTY      | TOTAL SHEETS | SHEET NO. |
|                     | 05-00174-00-BT            | ROCK ISLAND | 112          | 76        |
| STA.                | TO STA.                   |             |              |           |
| FED. ROAD DIST. NO. | ILLINOIS FED. AID PROJECT |             |              |           |

# SOIL BORINGS

| LOG OF BORING NO. 1  |  | Page 1 of 1                 |             |
|--|--|-----------------------------|-------------|
| OWNER  |  | ARCHITECT/ENGINEER          |             |
| SITE   |  | PROJECT                     |             |
| Rock Island, Illinois  |  | Augustana College Bike Path |             |
| GRAPHIC LOG  | DESCRIPTION  | DEPTH (ft.)                 | USCS SYMBOL |
|  | Approx. Surface Elev.: 654.2 ft.   |                             |             |
|  | Topsoil -- SILT, trace sand and organic matter, very dark grayish brown      | 2.0                         | ML 1 AS     |
|  | SILT, trace sand and ferrous staining, dark yellowish brown, stiff           |                             | HS          |
|  |  | 5                           | ML 2 ST 15" |
|  |  |                             | HS          |
|  | -- color change to light yellowish brown and dark yellowish brown @ about 9' | 10                          | ML 3 ST 7"  |
|  | -- becomes medium stiff @ about 11'  | 13.0                        | ML 4 SS 9"  |
|  |  | HS                          |             |
| SILT, trace sand and ferrous staining, olive brown and olive gray, very soft   | 14.5   | OH 5 SS 18"                 |             |
| Organic SILT, trace sand, very dark gray and gray, very soft                   |  | HS                          |             |
|  | 17.5   | CL 6 ST 21"                 |             |
| Lean CLAY, with sand, trace gravel and ferrous staining, dark gray, very stiff |  | HS                          |             |
|  | 20   | CL 7 ST 16"                 |             |
|  | 25.0   |                             |             |
| Bottom of Boring   | 629.2  |                             |             |

| LOG OF BORING NO. 2                                  |   | Page 1 of 2                 |             |
|--|---|-----------------------------|-------------|
| OWNER  |   | ARCHITECT/ENGINEER          |             |
| SITE   |   | PROJECT                     |             |
| Rock Island, Illinois                                |   | Augustana College Bike Path |             |
| GRAPHIC LOG  | DESCRIPTION   | DEPTH (ft.)                 | USCS SYMBOL |
|  | Approx. Surface Elev.: 697.4 ft.  |                             |             |
|  | Topsoil -- SILT, with organic matter, trace sand, very dark grayish brown     | 2.0                         | ML 1 AS     |
|  | SILT, trace sand and ferrous staining, pale yellow, very stiff                |                             | HS          |
|  |   | 5                           | ML 2 SS 9"  |
|  |   |                             | HS          |
|  | -- trace gravel and ferrous staining, color change to olive yellow @ about 9' | 10                          | ML 3 SS 18" |
|  |   |                             | HS          |
|  | 15  | ML 4 SS 18"                 |             |
|  |   | HS                          |             |
|  | 20  | ML 5 SS 8"                  |             |
|  |   | HS                          |             |
|  | 25  | ML 6 SS 18"                 |             |
|  |   | HS                          |             |
| -- color change to light yellowish brown @ about 24' | 32.5  | ML 7 SS 17"                 |             |
|  |   | HS                          |             |

| LOG OF BORING NO. 2   |   | Page 2 of 2                 |              |
|---|---|-----------------------------|--------------|
| OWNER   |   | ARCHITECT/ENGINEER          |              |
| SITE  |   | PROJECT                     |              |
| Rock Island, Illinois   |   | Augustana College Bike Path |              |
| GRAPHIC LOG   | DESCRIPTION   | DEPTH (ft.)                 | USCS SYMBOL  |
|   | Lean CLAY, trace sand, dark gray and very dark grayish brown, stiff           | 664.9                       | CL 8 SS 18"  |
|   |   |                             | HS           |
|   | -- with sand, color change to olive and dark bluish gray @ about 39'          | 40                          | CL 9 SS 18"  |
|   |   |                             | HS           |
|   | Sandy lean CLAY, trace gravel and ferrous staining, dark grayish brown, stiff | 42.5                        | CL 10 SS 18" |
|   |   |                             | HS           |
|   | Lean CLAY, with sand, trace gravel, dark olive brown, stiff                   | 47.5                        | CL 11 SS 18" |
|   |   | HS                          |              |
|   | 50  | CL 12 SS 16"                |              |
|   |   | HS                          |              |
| -- color change to very dark gray, becomes very stiff @ about 54' | 55  | CL 13 SS                    |              |
|   |   | 12.4                        |              |
|   | 60.0  |                             |              |
| Bottom of Boring  | 637.4   |                             |              |

THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL AND ROCK TYPES. IN-SITU, THE TRANSITION MAY BE GRADUAL.

Calibrated Hand Penetrometer\*

|                          |      |                |              |
|--------------------------|------|----------------|--------------|
| WATER LEVEL OBSERVATIONS |      | BORING STARTED | 11-9-06      |
| WL                       | None | WD             | 17' 11/15/06 |
| WL                       | None | AD             |              |
| WL                       |      |                |              |

**TEAM Services, Inc.**

|          |     |         |        |
|----------|-----|---------|--------|
| RIG      | ATV | FOREMAN | DC     |
| APPROVED | RED | JOB #   | 15-103 |

THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL AND ROCK TYPES. IN-SITU, THE TRANSITION MAY BE GRADUAL.

Calibrated Hand Penetrometer\*

|                          |      |                |              |
|--------------------------|------|----------------|--------------|
| WATER LEVEL OBSERVATIONS |      | BORING STARTED | 11-9-06      |
| WL                       | None | WD             | 47' 11/15/06 |
| WL                       | None | AD             |              |
| WL                       |      |                |              |

**TEAM Services, Inc.**

|          |     |         |        |
|----------|-----|---------|--------|
| RIG      | ATV | FOREMAN | DC     |
| APPROVED | RED | JOB #   | 15-103 |

THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL AND ROCK TYPES. IN-SITU, THE TRANSITION MAY BE GRADUAL.

Calibrated Hand Penetrometer\*

|                          |      |                |              |
|--------------------------|------|----------------|--------------|
| WATER LEVEL OBSERVATIONS |      | BORING STARTED | 11-9-06      |
| WL                       | None | WD             | 47' 11/15/06 |
| WL                       | None | AD             |              |
| WL                       |      |                |              |

**TEAM Services, Inc.**

|          |     |         |        |
|----------|-----|---------|--------|
| RIG      | ATV | FOREMAN | DC     |
| APPROVED | RED | JOB #   | 15-103 |

PLOT DATE  
FILE NAME  
PLOT SCALE  
USER NAME

| REVISIONS |      |
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ILLINOIS DEPARTMENT OF TRANSPORTATION

## SOIL BORINGS

SCALE: VERT. \_\_\_\_\_  
HORIZ. \_\_\_\_\_

DATE \_\_\_\_\_

DRAWN BY \_\_\_\_\_  
CHECKED BY \_\_\_\_\_



|                     |                           |             |              |           |
|---------------------|---------------------------|-------------|--------------|-----------|
| F.A. RTE.           | SECTION                   | COUNTY      | TOTAL SHEETS | SHEET NO. |
|                     | 05-00174-00-BT            | ROCK ISLAND | 112          | 78        |
| STA.                | TO STA.                   |             |              |           |
| FED. ROAD DIST. NO. | ILLINOIS FED. AID PROJECT |             |              |           |

# SOIL BORINGS

| LOG OF BORING NO. 4   |             |             |                             |      |          |                   |             |                 |                           |  |                  | Page 2 of 2 |  |
|-----------------------|-------------|-------------|-----------------------------|------|----------|-------------------|-------------|-----------------|---------------------------|--|------------------|-------------|--|
| OWNER                 |             |             | ARCHITECT/ENGINEER          |      |          |                   |             |                 |                           |  |                  |             |  |
| SITE                  |             |             | PROJECT                     |      |          |                   |             |                 |                           |  |                  |             |  |
| Rock Island, Illinois |             |             | Augustana College Bike Path |      |          |                   |             |                 |                           |  |                  |             |  |
| GRAPHIC LOG           | DEPTH (ft.) | USCS SYMBOL | SAMPLES                     |      |          | TESTS             |             |                 | UNCONFINED STRENGTH (PSF) |  |                  |             |  |
|                       |             |             | NUMBER                      | TYPE | RECOVERY | SPT-N BLOWS / FT. | MOISTURE, % | DRY DENSITY PCF |                           |  |                  |             |  |
|                       | 35          | CL          | 8                           | SS   | 18"      | 21                | 19.1        |                 |                           |  |                  |             |  |
|                       | 40          | CL          | 9                           | SS   | 18"      | 25                | 11.8        |                 |                           |  |                  |             |  |
|                       | 42.5        |             |                             |      |          |                   |             |                 |                           |  | 616.8            |             |  |
|                       | 45          | MH          | 10                          | SS   | 18"      | 19                | 30.4        |                 |                           |  |                  |             |  |
|                       | 47.5        |             |                             |      |          |                   |             |                 |                           |  | 611.8            |             |  |
|                       | 50          | ML          | 11                          | SS   | 16"      | 13                | 25.4        |                 |                           |  |                  |             |  |
|                       | 50.0        |             |                             |      |          |                   |             |                 |                           |  | 609.3            |             |  |
|                       |             |             |                             |      |          |                   |             |                 |                           |  | Bottom of Boring |             |  |

| LOG OF BORING NO. 5   |             |             |                             |      |          |                   |             |                 |                           |                              |  | Page 1 of 2                      |  |
|-----------------------|-------------|-------------|-----------------------------|------|----------|-------------------|-------------|-----------------|---------------------------|------------------------------|--|----------------------------------|--|
| OWNER                 |             |             | ARCHITECT/ENGINEER          |      |          |                   |             |                 |                           |                              |  |                                  |  |
| SITE                  |             |             | PROJECT                     |      |          |                   |             |                 |                           |                              |  |                                  |  |
| Rock Island, Illinois |             |             | Augustana College Bike Path |      |          |                   |             |                 |                           |                              |  |                                  |  |
| GRAPHIC LOG           | DEPTH (ft.) | USCS SYMBOL | SAMPLES                     |      |          | TESTS             |             |                 | UNCONFINED STRENGTH (PSF) |                              |  |                                  |  |
|                       |             |             | NUMBER                      | TYPE | RECOVERY | SPT-N BLOWS / FT. | MOISTURE, % | DRY DENSITY PCF |                           |                              |  |                                  |  |
|                       |             |             |                             |      |          |                   |             |                 |                           |                              |  | Approx. Surface Elev.: 694.9 ft. |  |
|                       | 5           | ML          | 1                           | AS   |          |                   |             | 24.5            |                           |                              |  |                                  |  |
|                       | 7.0         |             |                             |      |          |                   |             |                 |                           |                              |  | 687.9                            |  |
|                       | 10          | CL          | 3                           | ST   | 12"      |                   |             | 13.9            | 90                        | 9000*                        |  |                                  |  |
|                       | 12.5        |             |                             |      |          |                   |             |                 |                           |                              |  | 682.4                            |  |
|                       | 15          | CL          | 4                           | SS   | 3"       | 5                 | 14.2        |                 |                           |                              |  |                                  |  |
|                       | 16.0        |             |                             |      |          |                   |             |                 |                           |                              |  | 678.9                            |  |
|                       | 20          | ML          | 5                           | SS   | 13"      | 8                 | 14.2        |                 |                           |                              |  |                                  |  |
|                       | 25          | ML          | 6                           | ST   | 21"      |                   |             | 17.2            | 98                        | 6910 Confined 2500* @ 25 psi |  |                                  |  |
|                       | 30          | ML          | 7                           | ST   | 20"      |                   |             | 23.2            | 104                       | 8240 Confined 2500* @ 30 psi |  |                                  |  |
|                       | 32.5        |             |                             |      |          |                   |             |                 |                           |                              |  |                                  |  |

| LOG OF BORING NO. 5   |             |             |                             |      |          |                   |             |                 |                           |       |  | Page 2 of 2      |  |
|-----------------------|-------------|-------------|-----------------------------|------|----------|-------------------|-------------|-----------------|---------------------------|-------|--|------------------|--|
| OWNER                 |             |             | ARCHITECT/ENGINEER          |      |          |                   |             |                 |                           |       |  |                  |  |
| SITE                  |             |             | PROJECT                     |      |          |                   |             |                 |                           |       |  |                  |  |
| Rock Island, Illinois |             |             | Augustana College Bike Path |      |          |                   |             |                 |                           |       |  |                  |  |
| GRAPHIC LOG           | DEPTH (ft.) | USCS SYMBOL | SAMPLES                     |      |          | TESTS             |             |                 | UNCONFINED STRENGTH (PSF) |       |  |                  |  |
|                       |             |             | NUMBER                      | TYPE | RECOVERY | SPT-N BLOWS / FT. | MOISTURE, % | DRY DENSITY PCF |                           |       |  |                  |  |
|                       | 35          | CL          | 8                           | ST   | 18"      |                   |             | 22.1            | 104                       | 2500* |  |                  |  |
|                       | 40          | CL          | 9                           | ST   | 18"      |                   |             | 22.0            | 104                       | 2000* |  |                  |  |
|                       | 42.5        |             |                             |      |          |                   |             |                 |                           |       |  | 652.4            |  |
|                       | 45          | CL          | 10                          | SS   | 18"      | 21                | 11.6        |                 |                           |       |  |                  |  |
|                       | 50          | CL          | 11                          | SS   | 18"      | 40                | 12.9        |                 |                           |       |  |                  |  |
|                       | 55          | CL          | 12                          | SS   | 18"      | 38                | 17.6        |                 |                           |       |  |                  |  |
|                       | 60          | CL          | 13                          | SS   | 18"      | 34                | 15.2        |                 |                           |       |  |                  |  |
|                       | 60.0        |             |                             |      |          |                   |             |                 |                           |       |  | 634.9            |  |
|                       |             |             |                             |      |          |                   |             |                 |                           |       |  | Bottom of Boring |  |

THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL AND ROCK TYPES: IN-SITU, THE TRANSITION MAY BE GRADUAL.

|                          |     |                        |                 |
|--------------------------|-----|------------------------|-----------------|
| WATER LEVEL OBSERVATIONS |     | BORING STARTED 11-9-06 |                 |
| WL                       | 17' | WD                     | 3' DCI 11/15/06 |
| WL                       | 16' | AD                     |                 |
| WL                       |     |                        |                 |

TEAM Services, Inc.

|          |     |         |        |
|----------|-----|---------|--------|
| RIG      | ATV | FOREMAN | DC     |
| APPROVED | RED | JOB #   | 15-103 |

THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL AND ROCK TYPES: IN-SITU, THE TRANSITION MAY BE GRADUAL.

|                          |      |                        |              |
|--------------------------|------|------------------------|--------------|
| WATER LEVEL OBSERVATIONS |      | BORING STARTED 11-8-06 |              |
| WL                       | None | WD                     | 29' 11/15/06 |
| WL                       | None | AD                     |              |
| WL                       |      |                        |              |

TEAM Services, Inc.

|          |     |         |        |
|----------|-----|---------|--------|
| RIG      | ATV | FOREMAN | DC     |
| APPROVED | RED | JOB #   | 15-103 |

THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL AND ROCK TYPES: IN-SITU, THE TRANSITION MAY BE GRADUAL.

|                          |      |                        |              |
|--------------------------|------|------------------------|--------------|
| WATER LEVEL OBSERVATIONS |      | BORING STARTED 11-8-06 |              |
| WL                       | None | WD                     | 29' 11/15/06 |
| WL                       | None | AD                     |              |
| WL                       |      |                        |              |

TEAM Services, Inc.

|          |     |         |        |
|----------|-----|---------|--------|
| RIG      | ATV | FOREMAN | DC     |
| APPROVED | RED | JOB #   | 15-103 |

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PLOT SCALE \* SCALE  
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ILLINOIS DEPARTMENT OF TRANSPORTATION

## SOIL BORINGS

SCALE: VERT. HORIZ.  
DATE

CHECKED BY



# SOIL BORINGS

|                     |                |                           |              |           |
|---------------------|----------------|---------------------------|--------------|-----------|
| F.A. RTE.           | SECTION        | COUNTY                    | TOTAL SHEETS | SHEET NO. |
|                     | 05-00174-00-BT | ROCK ISLAND               | 112          | 80        |
| STA.                |                | TO STA.                   |              |           |
| FED. ROAD DIST. NO. |                | ILLINOIS FED. AID PROJECT |              |           |

| LOG OF BORING NO. 6A  |   | Page 3 of 3                         |             |        |      |          |                   |             |                 |                         |
|-----------------------|---|-------------------------------------|-------------|--------|------|----------|-------------------|-------------|-----------------|-------------------------|
| OWNER                 |   | ARCHITECT/ENGINEER                  |             |        |      |          |                   |             |                 |                         |
| Rock Island, Illinois |   | Missman, Stanley & Associates, P.C. |             |        |      |          |                   |             |                 |                         |
| SITE                  |   | PROJECT                             |             |        |      |          |                   |             |                 |                         |
| Rock Island, Illinois |   | Augustana College Bike Path         |             |        |      |          |                   |             |                 |                         |
| GRAPHIC LOG           | DESCRIPTION   | DEPTH (ft.)                         | SAMPLES     |        |      | TESTS    |                   |             |                 |                         |
|                       |   |                                     | USCS SYMBOL | NUMBER | TYPE | RECOVERY | SPT-N BLOWS / FT. | MOISTURE, % | DRY DENSITY PCF | UNCONFINED STRENGTH PSF |
| 67.5                  | Lean CLAY, with sand, trace gravel and ferrous staining, olive gray, hard | 624.6                               |             |        | HS   |          |                   |             |                 |                         |
|                       | Elastic SILT, trace sand, slickensided, very dark gray, hard              |                                     | MH          | 15     | SS   | 13"      | 35                | 24.3        |                 |                         |
|                       |   |                                     |             |        | HS   |          |                   |             |                 |                         |
|                       | -- becomes very stiff @ about 74'   |                                     | MH          | 16     | SS   | 16"      | 28                | 31.1        |                 |                         |
|                       |   |                                     |             |        | HS   |          |                   |             |                 |                         |
| 80.5                  | Bottom of Boring<br>30'E of Boring 6                                      | 611.6                               | MH          | 17     | SS   | 18"      | 22                | 21.7        |                 |                         |

THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL AND ROCK TYPES. IN-SITU, THE TRANSITION MAY BE GRADUAL. Calibrated Hand Penetrometer\*

|                            |     |                |                  |          |        |
|----------------------------|-----|----------------|------------------|----------|--------|
| WATER LEVEL OBSERVATIONS   |     | BORING STARTED |                  | 11-10-06 |        |
| WL                         | 34' | WD             | 18'              | 11/15/06 |        |
| <b>TEAM Services, Inc.</b> |     |                | BORING COMPLETED |          |        |
|                            |     |                | 11-10-06         |          |        |
|                            |     | RIG            | ATV              | FOREMAN  | DC     |
|                            |     | APPROVED       | RED              | JOB #    | 15-103 |

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PLOT SCALE \* \* \* SCALE \* \* \*  
USER NAME \* \* \* USER \* \* \*

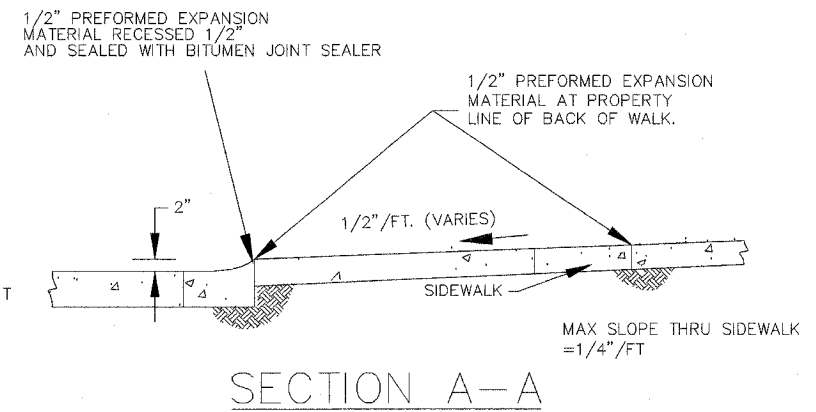
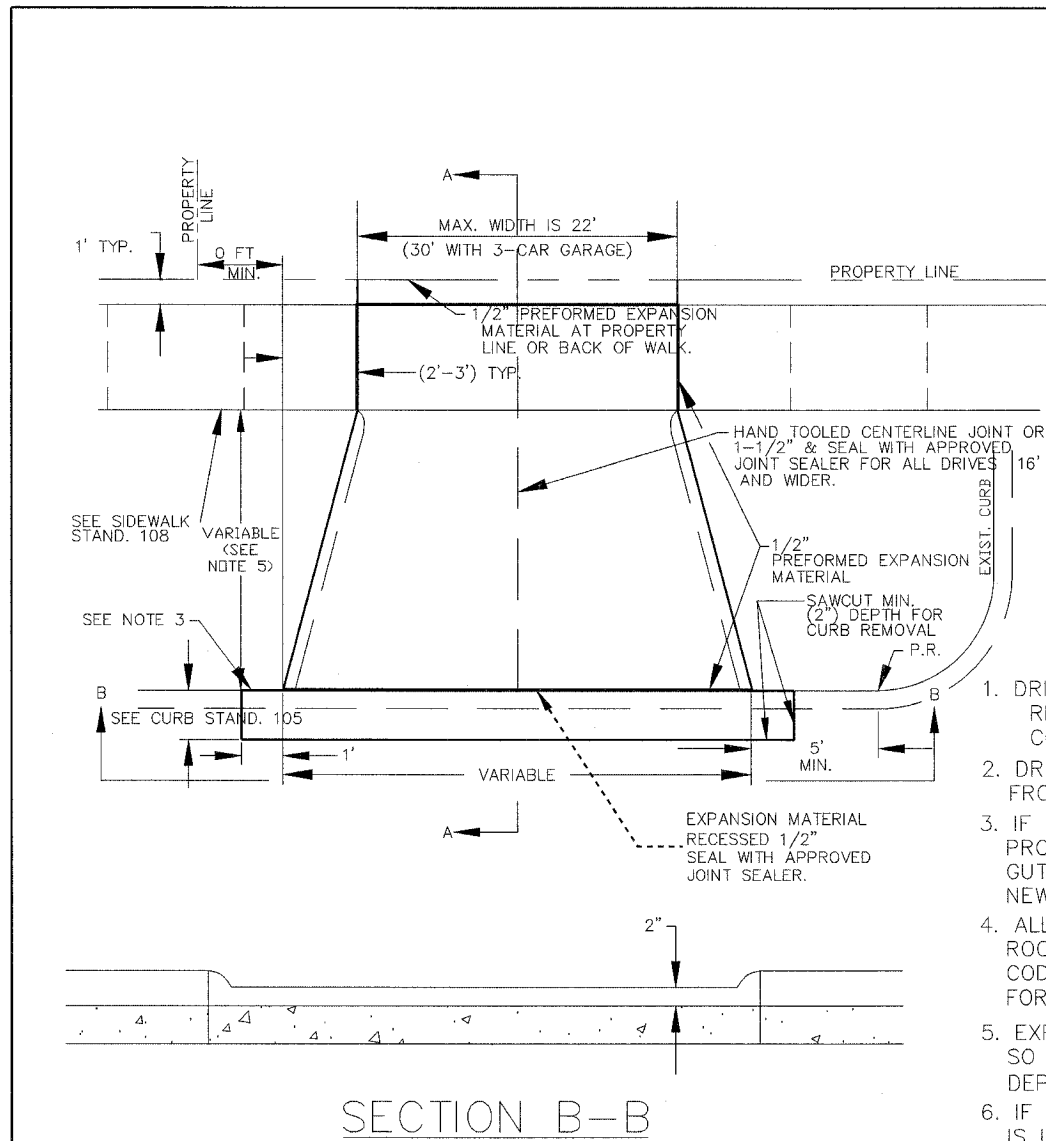
| REVISIONS |      | ILLINOIS DEPARTMENT OF TRANSPORTATION |
|-----------|------|---------------------------------------|
| NAME      | DATE |                                       |
|           |      | <h2>SOIL BORINGS</h2>                 |
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SCALE: VERT. DATE      HORIZ. CHECKED BY





|                     |                           |             |              |           |
|---------------------|---------------------------|-------------|--------------|-----------|
| F.A. RTE.           | SECTION                   | COUNTY      | TOTAL SHEETS | SHEET NO. |
|                     | 05-00174-00-BT            | ROCK ISLAND | 112          | 82        |
| STA.                | TO STA.                   |             |              |           |
| FED. ROAD DIST. NO. | ILLINOIS FED. AID PROJECT |             |              |           |



- NOTES:
1. DRIVEWAY AND SIDEWALK THICKNESS:  
RESIDENTIAL - 6" (5" IF 42# MESH IS USED)  
COMMERCIAL - 7" (6" IF (42#) MESH IS USED)
  2. DRIVEWAY AND CURB CUT PERMITS MUST BE OBTAINED FROM CITY ENGINEER PRIOR TO CONSTRUCTION.
  3. IF AN EXISTING JOINT IS WITHIN 2' OF THE PROPOSED SAW CUT IN THE STREET, THEN ALL OF THE GUTTER SECTION SHOULD BE REMOVED & REPLACED WITH NEW PAVEMENT.
  4. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE ROCK ISLAND STANDARD SPECIFICATIONS, THE MUNICIPAL CODE AND THE IDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.
  5. EXPANSION TO BE FLUSH WITH FACE OF BACK OF CURB SO A TIGHT, STRAIGHT JOINT IS ATTAINED, AND FULL DEPTH OF DRIVE.
  6. IF THE DISTANCE FROM THE BACK OF CURB TO THE SIDEWALK IS LESS THAN 3', DELETE SIDEWALK THRU DRIVEWAY. (SEE CRI STANDARD NO. 107)
  7. NO MASONITE TO BE USED AS FORMS
  8. EXPANSION MATERIAL SHALL NOT BE USED AS FORMS

NOT TO SCALE

|          |      |          |
|----------|------|----------|
| REVISED  | MJH  | 05/07/01 |
| REVISED  | PJK  | 01/10/01 |
| REVISED  | TAB  | 01/27/01 |
| REVISED  | PMCJ | 08/02/99 |
| REVISED  | CAM  | 05/14/99 |
| METRIC   | BJT  | 12/20/97 |
| REVISED  | RDJ  | 07/19/95 |
| REVISED  | CWE  | 06/27/91 |
| REVISION | BY   | DATE     |

S: \... \MISC \STANDARD \CRI\_STD \106.DWG

### DRIVEWAY STANDARD FOR DRIVES WITH SIDEWALKS 0.6 m (2') OR MORE FROM BACK OF CURBS

CITY OF ROCK ISLAND  
ENGINEERING DIVISION

STANDARD NO. 106

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ILLINOIS DEPARTMENT OF TRANSPORTATION

## CITY OF ROCK ISLAND STANDARDS

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DATE: \_\_\_\_\_

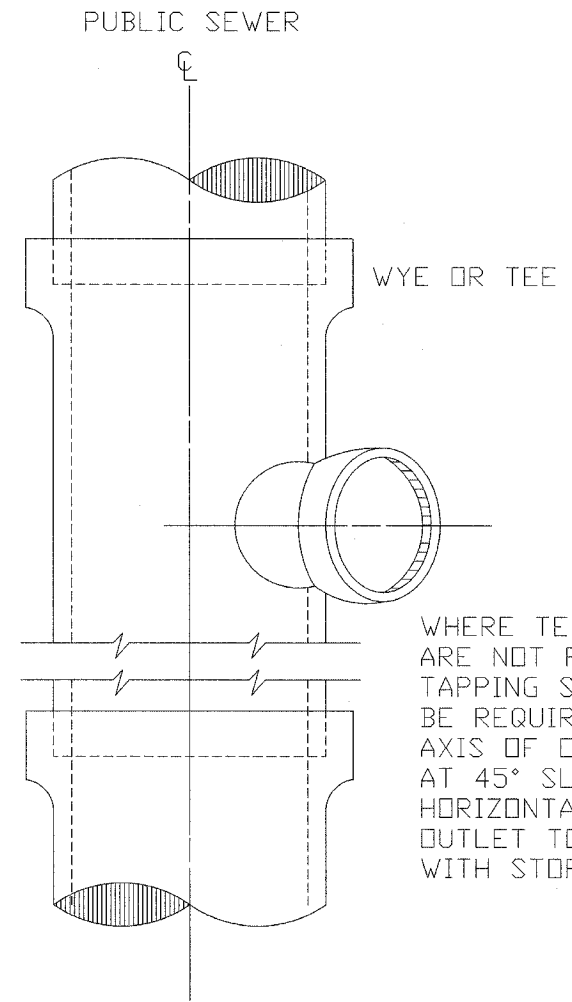
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| F.A. RTE.           | SECTION                   | COUNTY      | TOTAL SHEETS | SHEET NO. |
|                     | 05-00174-00-BT            | ROCK ISLAND | 112          | 85        |
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| FED. ROAD DIST. NO. | ILLINOIS FED. AID PROJECT |             |              |           |

STANDARD SERVICE CONNECTIONS

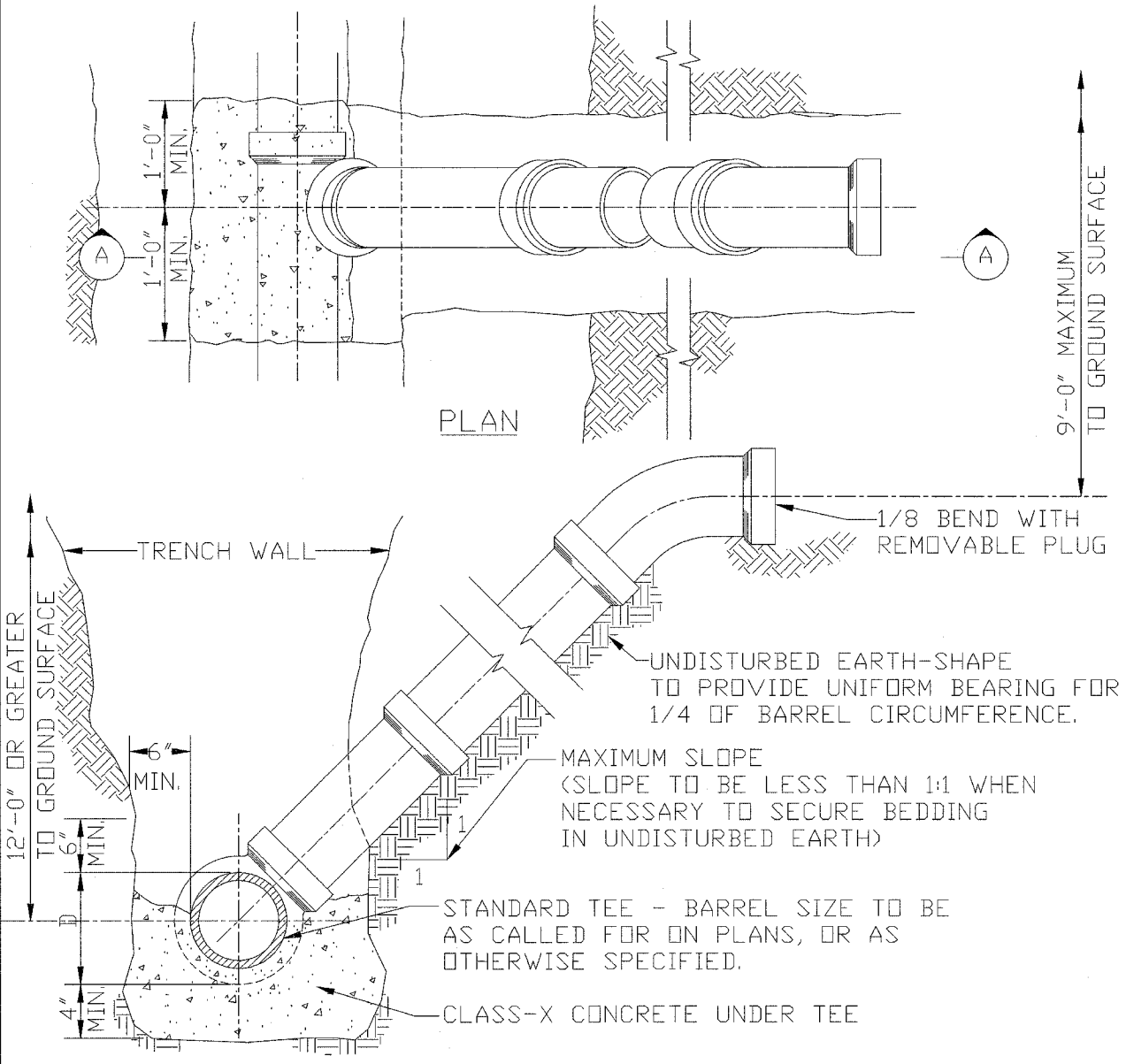


WHERE TEES AND WYES ARE NOT PROVIDED, TAPPING SADDLES WILL BE REQUIRED. AXIS OF OUTLET PLACED AT 45° SLOPE WITH HORIZONTAL. OUTLET TO BE PROVIDED WITH STOPPER.

NOT TO SCALE

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| STANDARDIZED | PMCJ | 09/07/94 |
| REVISION     | BY   | DATE     |

STANDARD RISER FOR SERVICE CONNECTION



NOTES:

- RISERS TO BE CONSTRUCTED WHERE SEWER DEPTH EXCEEDS 12'-0".
- FOR PIPE MATERIAL AND CONCRETE, SEE STATE STANDARD SPECIFICATIONS FOR WATER & SEWER MAIN CONST.

STANDARD SERVICE CONNECTIONS

CITY OF ROCK ISLAND ENGINEERING DIVISION STANDARD NO. 203

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ILLINOIS DEPARTMENT OF TRANSPORTATION

CITY OF ROCK ISLAND STANDARDS

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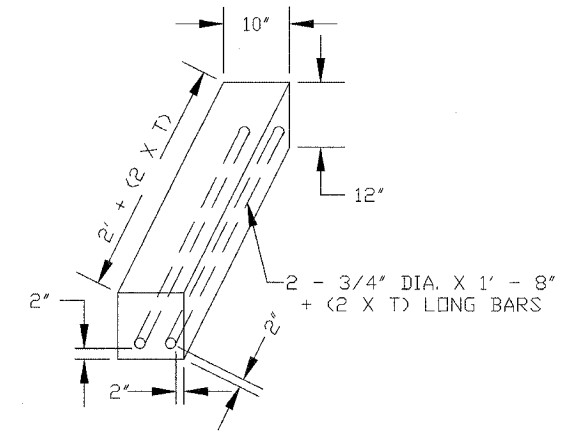
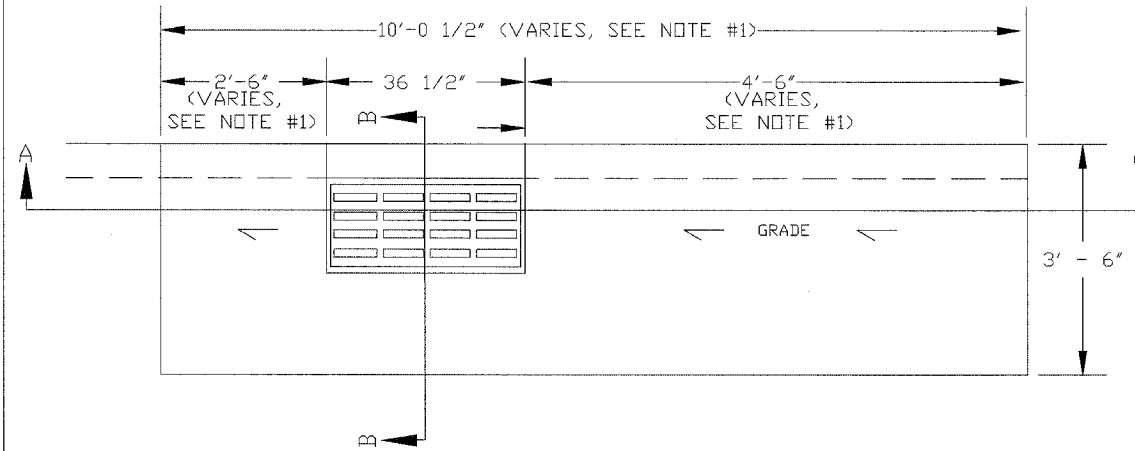
| F.A. RTE.           | SECTION        | COUNTY                    | TOTAL SHEETS | SHEET NO. |
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|                     | 05-00174-00-BT | ROCK ISLAND               | 112          | 86        |
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NOTE 1: MATCH EXISTING JOINTS AS IS PRACTICABLE. ON NEW PAVEMENT BEGIN JOINT PATTERN FROM EDGES OF BOX OUT.

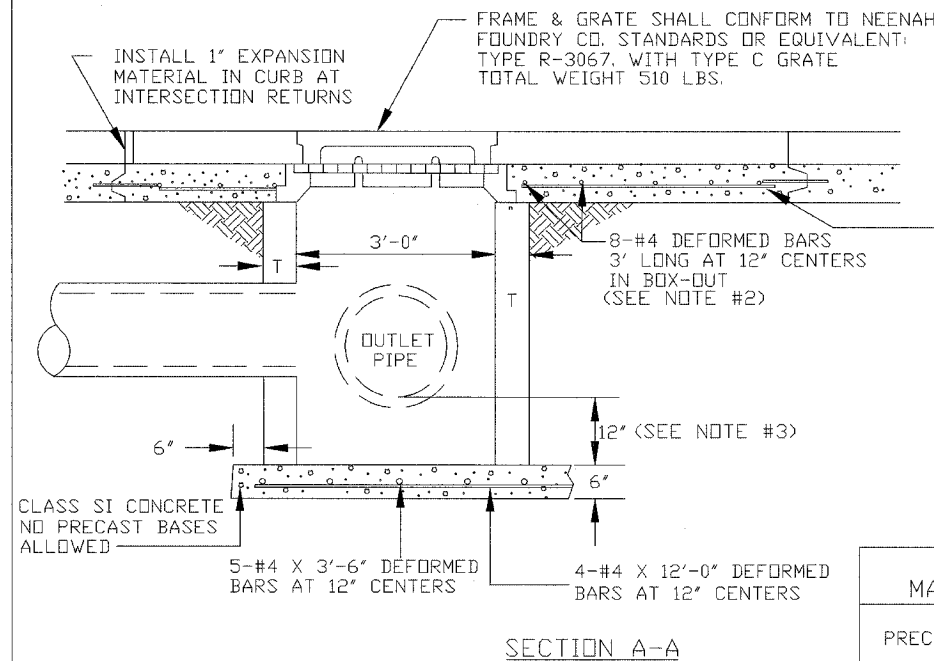
NOTE 2: STEEL REBAR TO BE PLACED AS SHOWN WHETHER CATCH BASIN IS POURED INTEGRAL TO PAVEMENT OR IN A BOX OUT. MAINTAIN MINIMUM OF 2" CLEARANCE BETWEEN REBAR AND FACE OF CONCRETE.

NOTE 3: 12" SUMP TO BE OMITTED FROM CATCH BASIN BOTTOMS EXCEPT IN AREAS WHERE SANITARY AND STORM SEWERS ARE COMBINED.

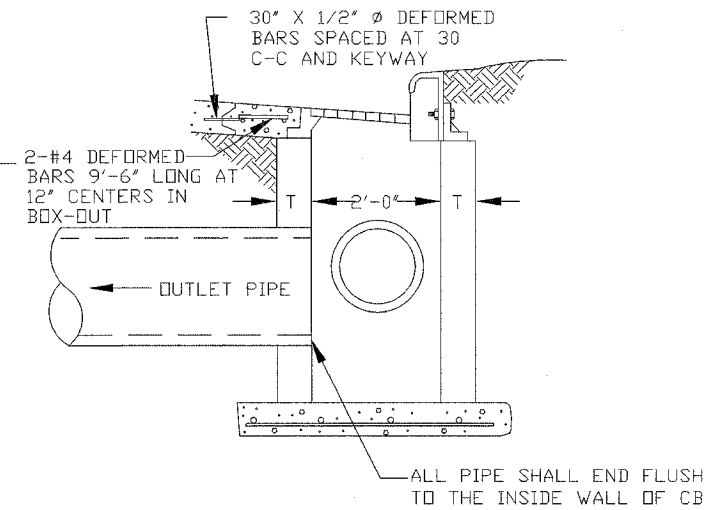
NOTE 4: DEPRESS CASTING 1" GUTTER LINE GRADE



BEAM DETAIL



SECTION A-A



SECTION B-B

| ALTERNATE MATERIAL FOR WALLS | T  |
|------------------------------|----|
| PRECAST SECTIONS             | 5" |
| POURED WALLS *               | 6" |

\* CLASS SI CONCRETE, VIBRATED, WITH FORMS RIDGED AND TRUE TO VERTICAL ALIGNMENT.

SINGLE CATCH BASIN

CITY OF ROCK ISLAND  
ENGINEERING DIVISION

STANDARD NO. 204

NOT TO SCALE

| REVISION     | BY   | DATE     |
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| REVISED      | MJH  | 05/03/01 |
| REVISED      | TAB  | 11/08/99 |
| STAND206.DWG | PMCJ | 6/1/95   |
| REVISION     | BY   | DATE     |

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ILLINOIS DEPARTMENT OF TRANSPORTATION

CITY OF ROCK ISLAND  
STANDARDS

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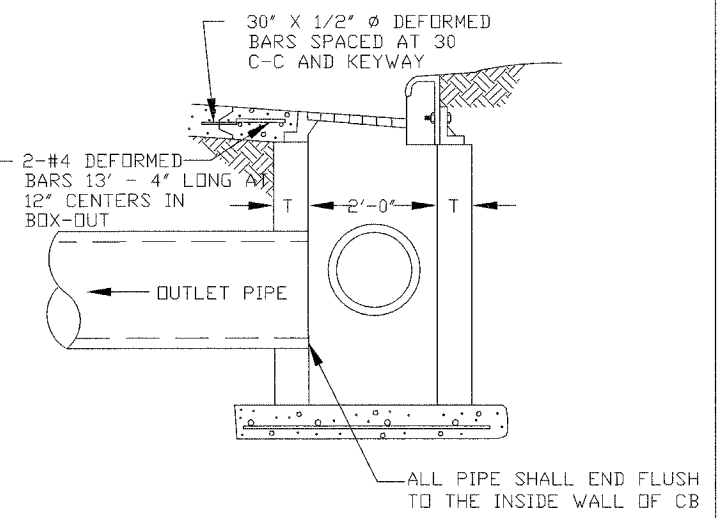
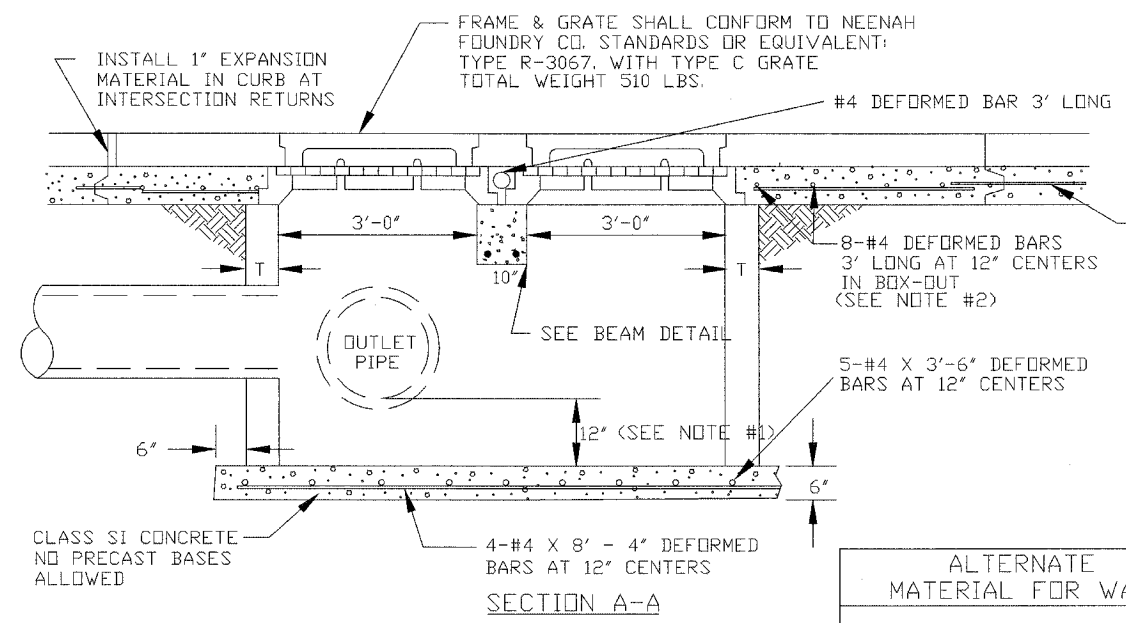
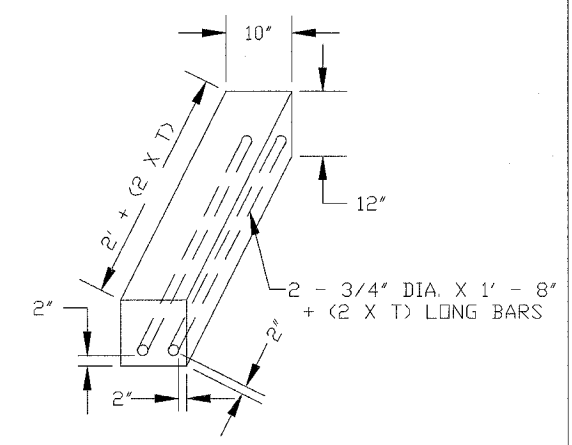
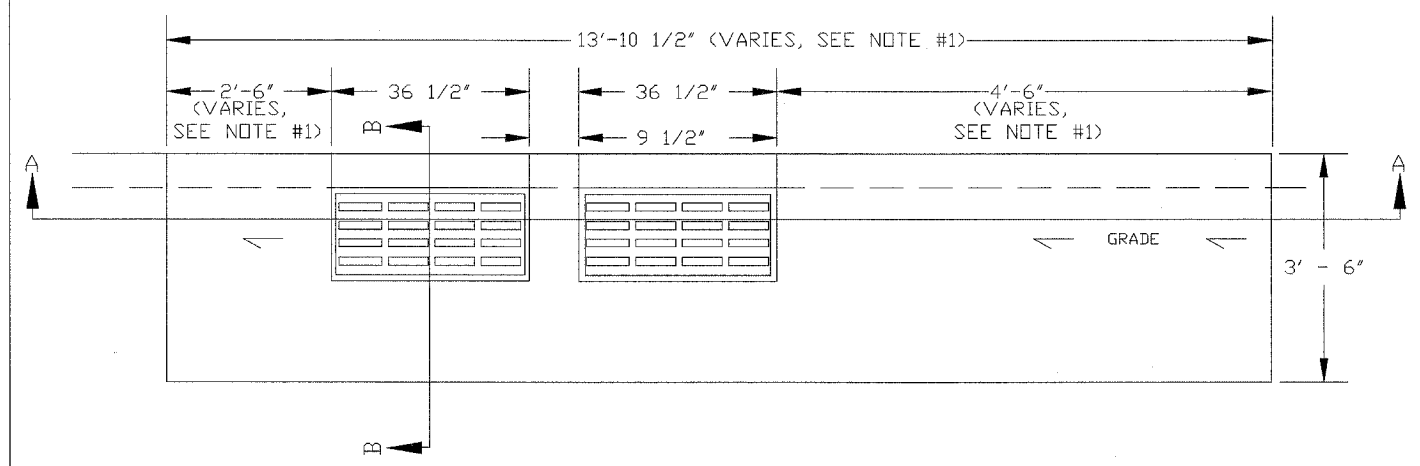
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|                     | 05-00174-00-BT | ROCK ISLAND               | 112          | 87        |
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| FED. ROAD DIST. NO. |                | ILLINOIS FED. AID PROJECT |              |           |

NOTE 1: MATCH EXISTING JOINTS AS IS PRACTICABLE. ON NEW PAVEMENT BEGIN JOINT PATTERN FROM EDGES OF BOX OUT.

NOTE 2: STEEL REBAR TO BE PLACED AS SHOWN WHETHER CATCH BASIN IS POURED INTEGRAL TO PAVEMENT OR IN A BOX OUT. MAINTAIN MINIMUM OF 2" CLEARANCE BETWEEN REBAR AND FACE OF CONCRETE.

NOTE 3: 12" SUMP TO BE OMITTED FROM CATCH BASIN BOTTOMS EXCEPT IN AREAS WHERE SANITARY AND STORM SEWERS ARE COMBINED.



| ALTERNATE MATERIAL FOR WALLS | T  |
|------------------------------|----|
| PRECAST SECTIONS             | 5" |
| POURED WALLS *               | 6" |

\* CLASS SI CONCRETE, VIBRATED, WITH FORMS RIGID AND TRUE TO VERTICAL ALIGNMENT.

### DOUBLE CATCH BASIN

CITY OF ROCK ISLAND ENGINEERING DIVISION STANDARD NO. 205

NOT TO SCALE

| REVISION     | BY   | DATE     |
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| REVISD       | TAB  | 11/08/99 |
| STAND206.DWG | PMCJ | 6/1/95   |

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ILLINOIS DEPARTMENT OF TRANSPORTATION

### CITY OF ROCK ISLAND STANDARDS

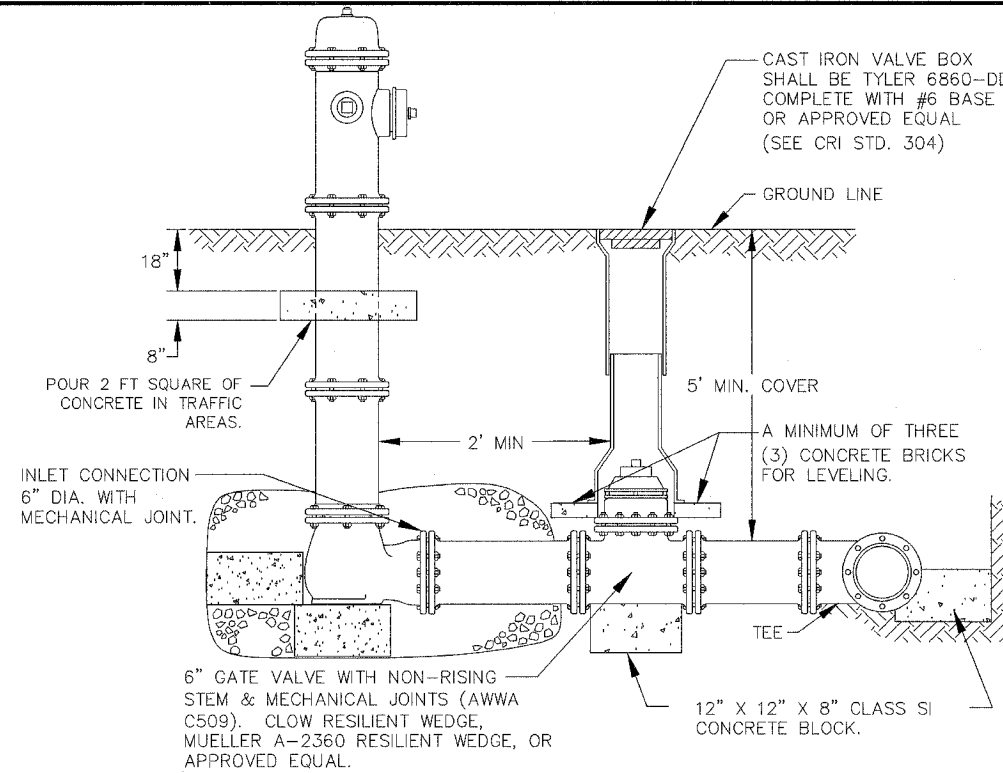
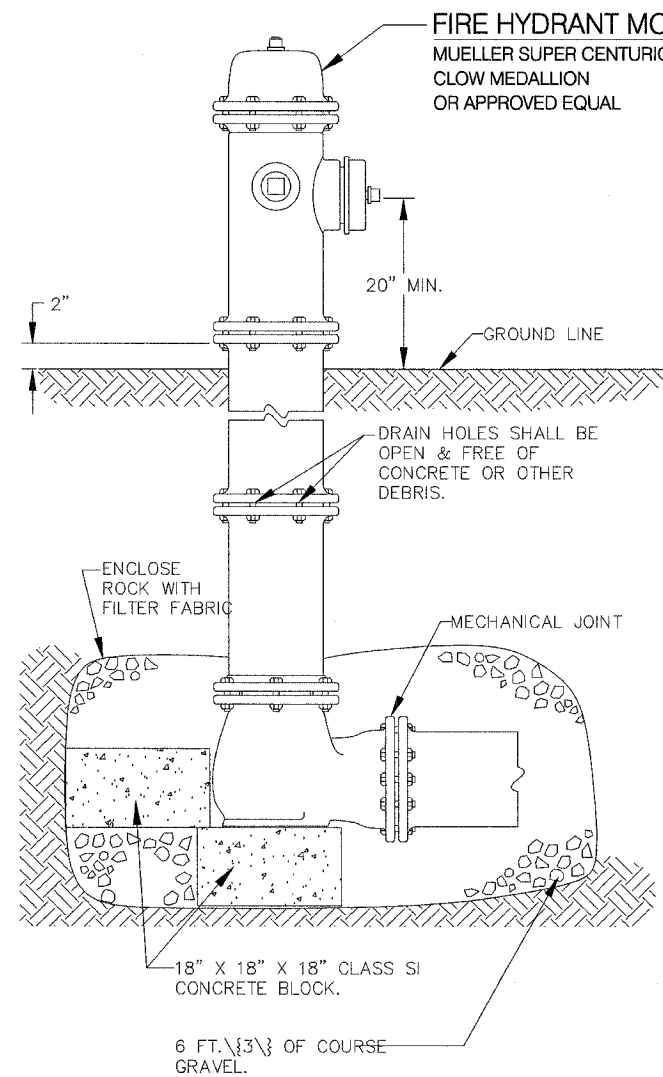
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|                     | 05-00174-00-BT            | ROCK ISLAND | 112          | 89        |
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| FED. ROAD DIST. NO. | ILLINOIS FED. AID PROJECT |             |              |           |



NOTE:

1. A COMPRESSION TYPE MAIN VALVE, CLOSING WITH STREAM FLOW. THE VALVE WILL BE DESIGNED TO BE HELD CLOSED IN COMPRESSION UNDER STATIC WATER PRESSURE. THE VALVE OPENING WILL BE 5.25" MINIMUM NOMINAL DIAMETER AND OPEN COUNTER-CLOCKWISE. SEE BID FORM FOR OPERATING NUT SIZE FOR EACH PARTICIPATING MUNICIPALITY.
2. THE INLET CONNECTION WILL BE 6" DIA. "CUT-IN" MECHANICAL JOINT (AS DESCRIBED IN SECTION II-2, CII) WITH RESTRAINING LUGS, FOOTPIECE BELL WILL ACCEPT PIPE OUTSIDE DIAMETERS IN THE 6.9" AND 7.1" RANGE.
3. DELIVERY CLASSIFICATION - ONE PUMPER AND TWO HOSE NOZZLES. THESE NOZZLES SHALL BE 4.5" & 2.5" NOMINAL INSIDE DIA. RESPECTIVELY. THREADS SHALL BE OF NATIONAL STANDARD FIRE HOSE COUPLING SCREW DESIGN.
4. THE HYDRANTS WILL BE OF "TRAFFIC BREAKAWAY DESIGN," WITH GROUND LINE FLANGE AND SAFETY STEM OPERATOR COUPLING. GRADE LINE SHALL BE POSITIVELY MARKED ON THE LOWER BARREL. THE CENTER LINE OF ALL PORTS SHALL BE A MINIMUM OF 18" ABOVE ESTABLISHED GRADE LINES.
5. HYDRANTS WILL BE PROVIDED WITH BRONZE-LINED OUTLETS TO ALLOW CORROSION RESISTANT DRAINAGE OF THE BARREL SECTIONS. SEAT AND DRAIN RINGS WILL BE OF BRONZE COMPOSITION AS PROVIDED IN THE STANDARD RECOMMENDATIONS.
6. POSITIVE O-RINGS SEALS WILL BE PROVIDED TO PROTECT STEM AND OPERATING NUT THREADS, AND ALL BEARING SURFACES FROM THE ATMOSPHERE AND THE WATERWAY. THE TOP WILL HAVE AN OIL RESERVOIR OR GREASE CHAMBER TO INSURE AUTOMATIC LUBRICATION OF THE STEM THREADS DURING OPERATION.
7. PRIMARY COATING AND PAINTING MUST COMPLY WITH THE STANDARD RECOMMENDATIONS, AND A YELLOW FINISH COLOR WILL BE APPLIED ABOVE THE GRADE LINE.

NOT TO SCALE

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| REVISED              | MDW  | 01/06/00 |
| REV. HYD. MODEL STD. | PMCJ | 06/25/99 |
| METRIC               | PMCJ | 01/27/97 |
| REVISED              | MDW  | 08/22/94 |
| STAND301.DWG         | MDM  | 03/91    |
| REVISION             | BY   | DATE     |

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## FIRE HYDRANT DETAIL

CITY OF ROCK ISLAND  
ENGINEERING DIVISION

STANDARD NO. 301

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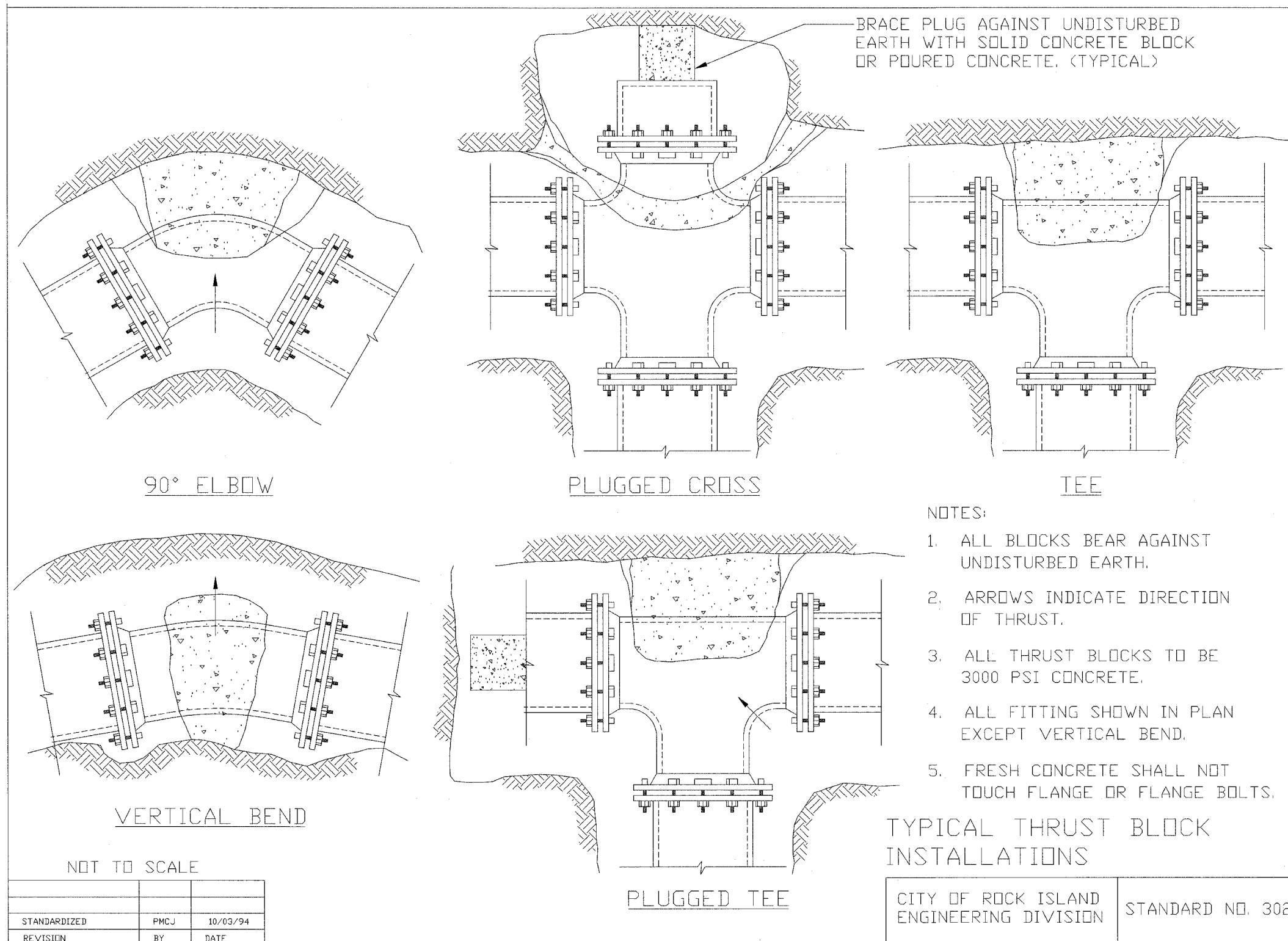
ILLINOIS DEPARTMENT OF TRANSPORTATION

**CITY OF ROCK ISLAND  
STANDARDS**

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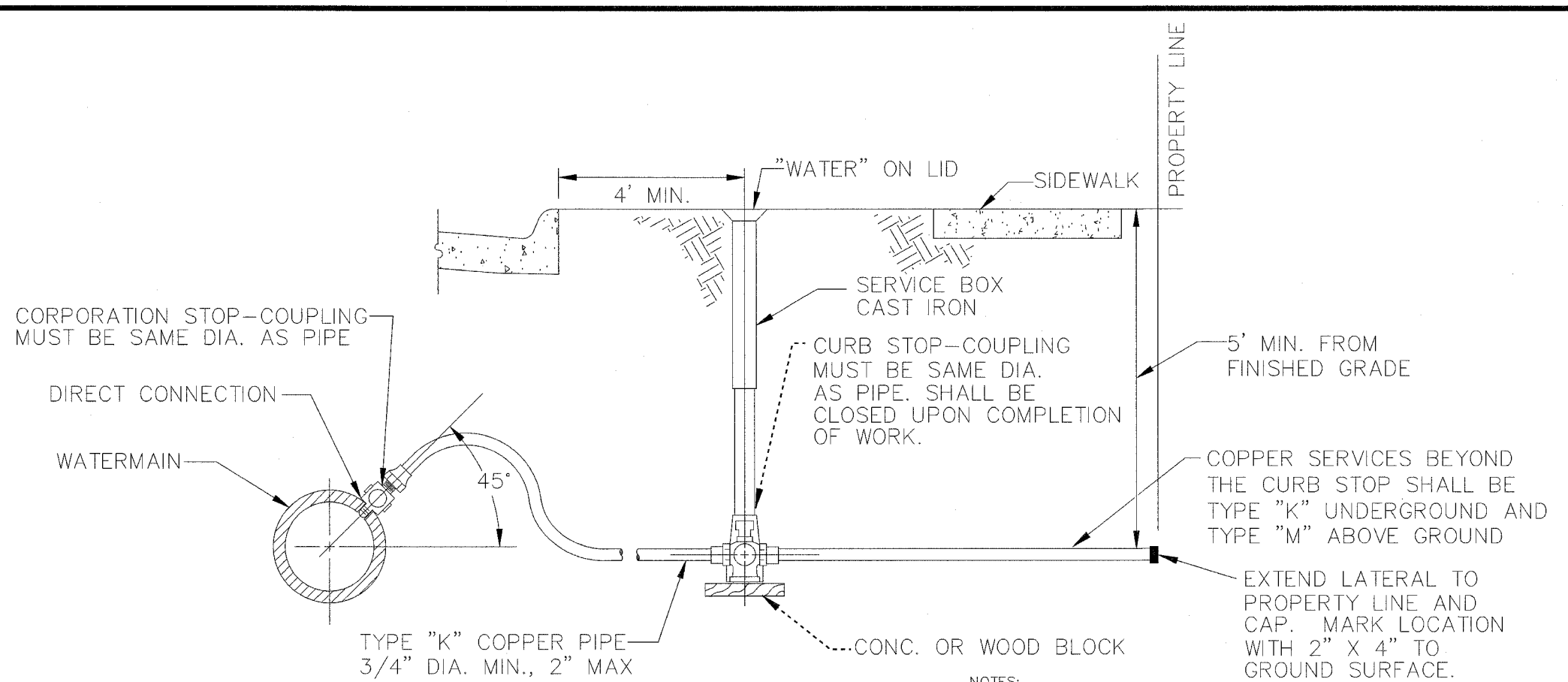
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**CITY OF ROCK ISLAND STANDARDS**

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MAXIMUM RECOMMENDED DIRECT TAP SIZE FOR DUCTILE IRON PIPE CLASS 350 psi

| SIZE | TAP SIZE |
|------|----------|
| 3"   | 3/4"     |
| 4"   | 3/4"     |
| 6"   | 1"       |
| 8"   | 1"       |
| 10"  | 1"       |
| 12"  | 1-1/4"   |
| 14"  | 1-1/2"   |
| 16"  | 2"       |
| 18"  | 2"       |
| 20"  | 2"       |
| 24"  | 2"       |

- NOTES:
1. THE SERVICE PIPE SHALL BE LAID IN THE TRENCH WITH SUFFICIENT HORIZONTAL WEAVING TO ALLOW NOT LESS THAN 1' EXTRA LENGTH IN ITS ENTIRE LENGTH.
  2. SERVICE PIPES OVER 2" DIAMETER SHALL BE TAPPED LIVE THROUGH A SADDLE SLEEVE OR CUT-IN TO THE MAIN WITH A SOLID SLEEVE. NOTIFY THE PUBLIC WORKS DEPARTMENT PRIOR TO PERFORMING SUCH A CONNECTION.
  3. THE PIPING FROM TWO OR MORE SERVICES ON THE SAME PREMISES MUST BE KEPT SEPARATE, WITH NO CROSS CONNECTIONS.
  4. CONTACT THE PLUMBING INSPECTOR FOR SPECIAL BEDDING AND INSTALLATION REQUIREMENTS FOR SERVICES IN ACID SOILS OR LANDFILLS.

**STANDARD TAP SERVICE PIPING (COPPER)**

CITY OF ROCK ISLAND ENGINEERING DIVISION      STANDARD NO. 303

NOT TO SCALE

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| REVISED      | TAB  | 2/6/02   |
| REVISED      | PMCJ | 12/14/98 |
| METRIC       | PMCJ | 01/27/97 |
| STAND303.DWG | CWE  | 06/19/91 |
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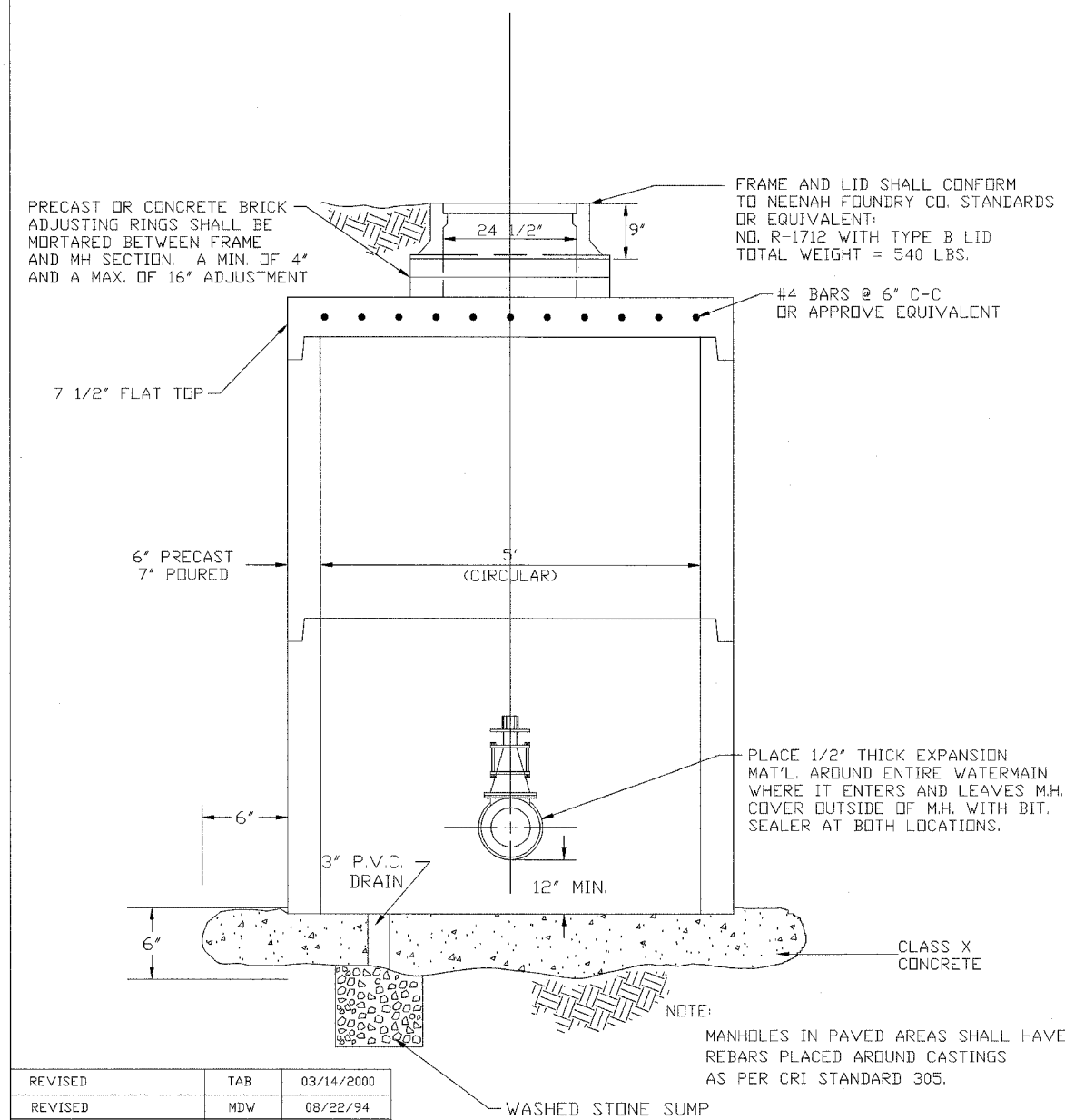
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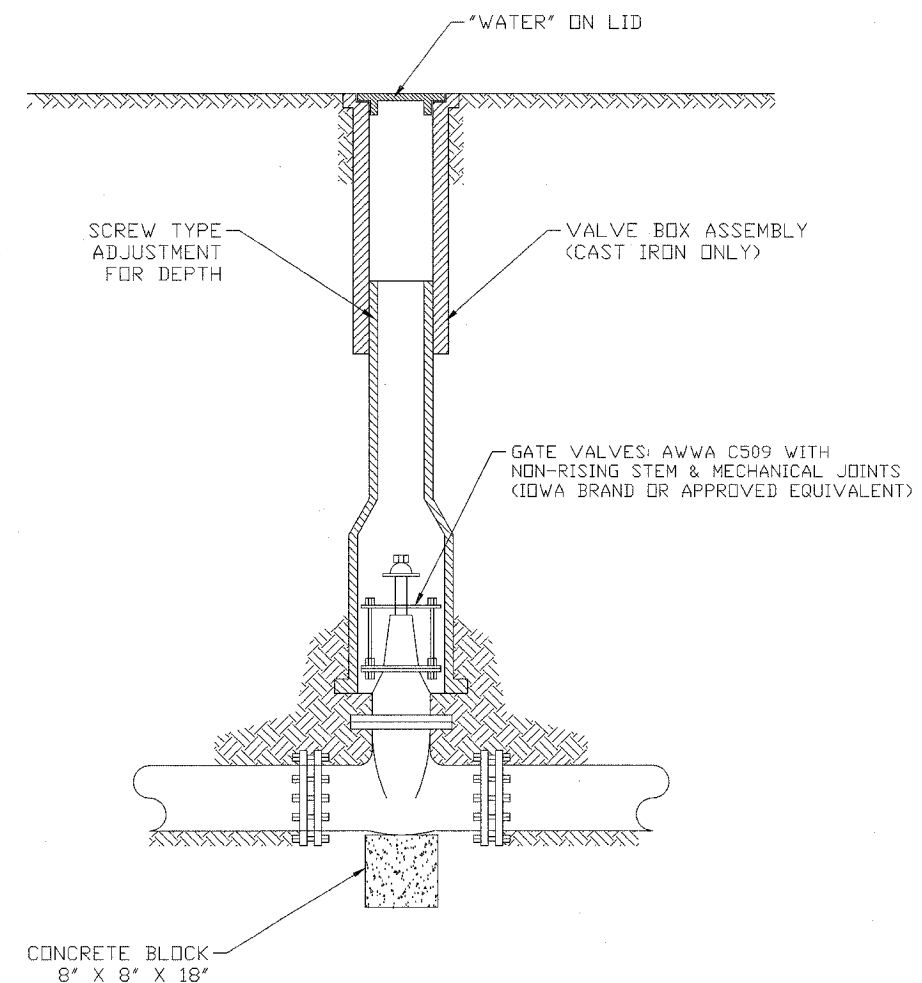
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### VALVE VAULT



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| REVISED      | TAB | 03/14/2000 |
| REVISED      | MDW | 08/22/94   |
| STAND304.DWG | MDW | 03/12/93   |
| REVISION     | BY  | DATE       |

### VALVE BOX



### STANDARD VALVE VAULT & STANDARD VALVE BOX

CITY OF ROCK ISLAND  
ENGINEERING DIVISION

STANDARD NO. 304

PLOT DATE \* \* \* \* \*  
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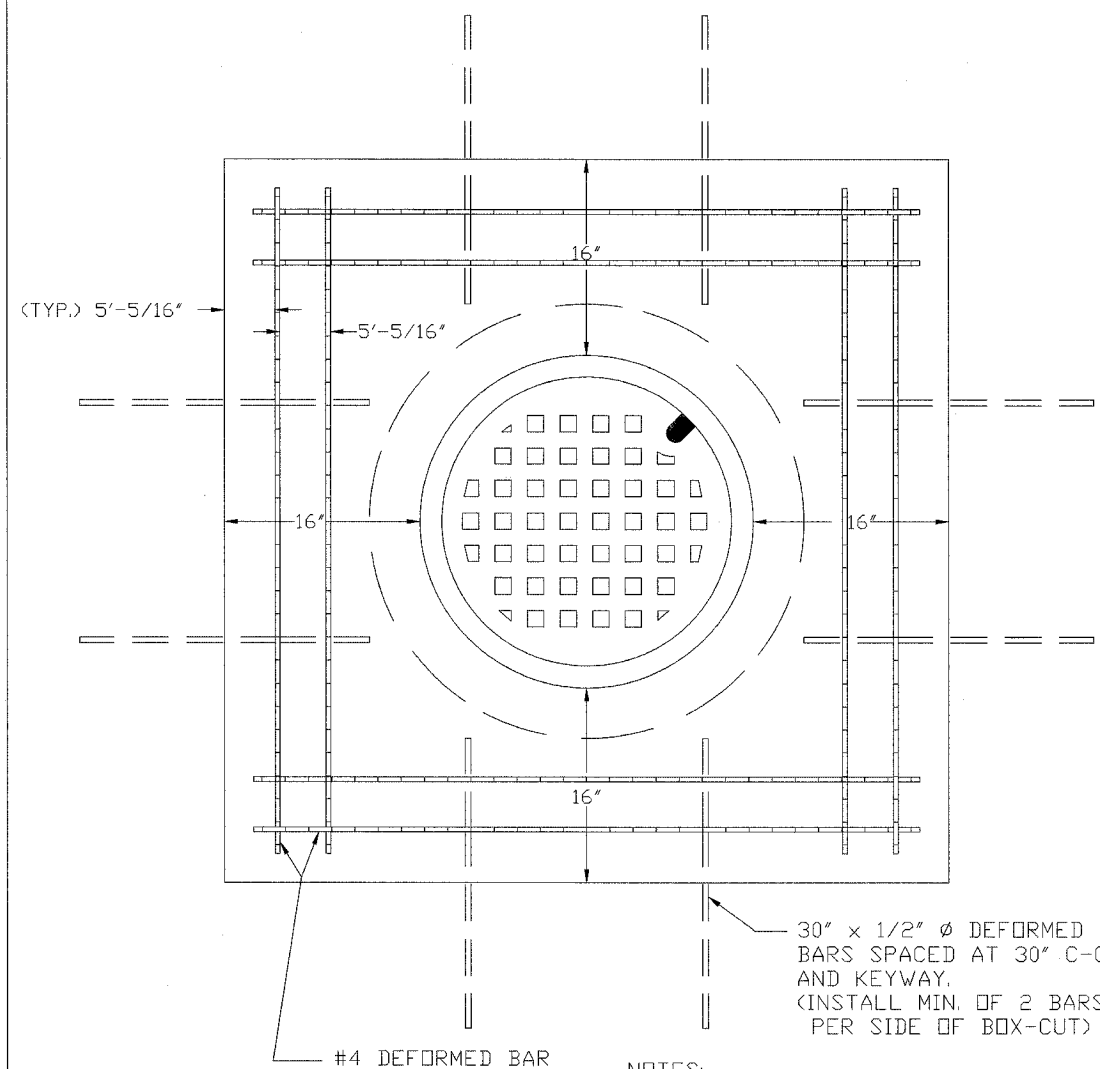
ILLINOIS DEPARTMENT OF TRANSPORTATION

**CITY OF ROCK ISLAND STANDARDS**

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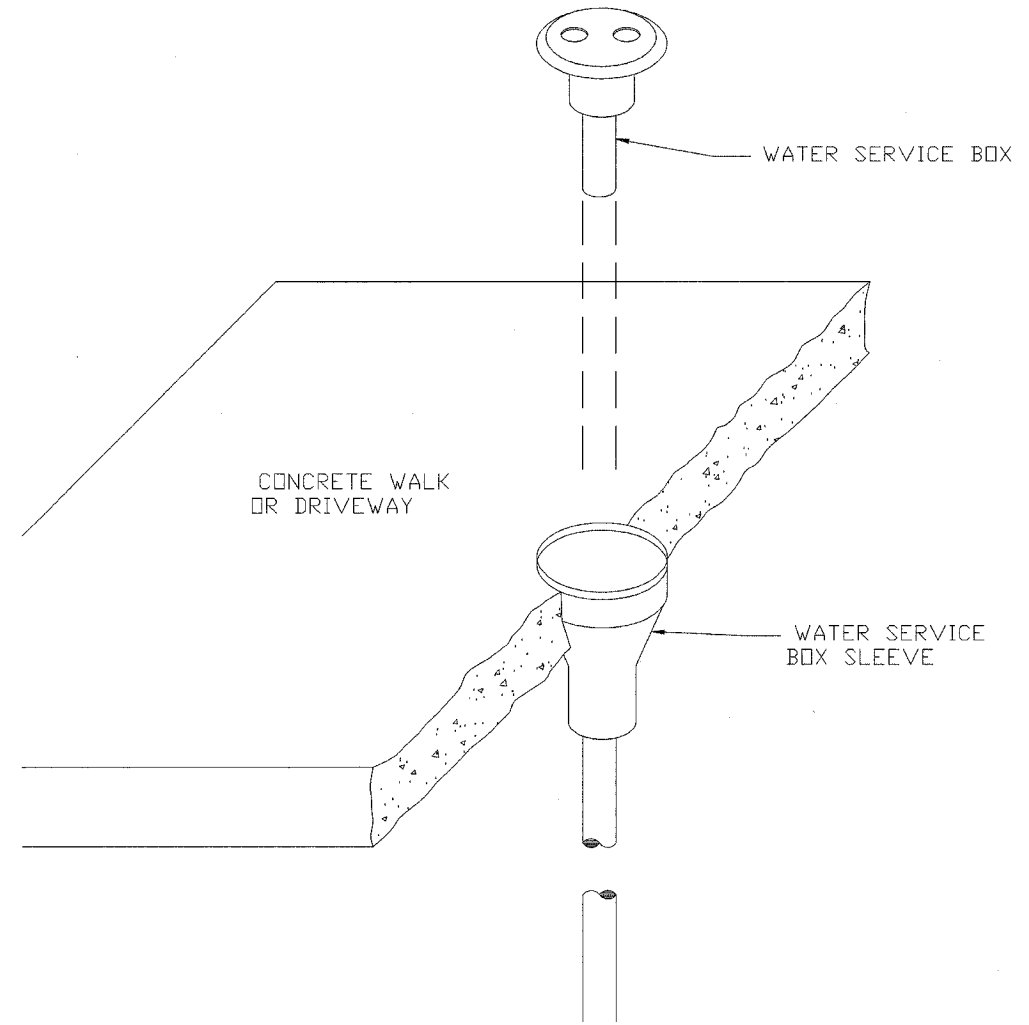
### MANHOLE BOX-CUT



- NOTES:
- #1 REBARS TO BE PLACED WHETHER BOX-CUT IS USED OR NOT.
  - #2 MINIMUM OF 2" CLEARANCE BETWEEN BOX-CUT AND END OF REBARS.

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| REVISED      | TAB | 03/14/2000 |
| STAND305.DWG | CWE | 06/24/91   |
| REVISION     | BY  | DATE       |

### SLEEVE - WATER SERVICE BOX



### MANHOLE BOX-CUT & WATER SERVICE BOX SLEEVE

CITY OF ROCK ISLAND ENGINEERING DIVISION      STANDARD NO. 305

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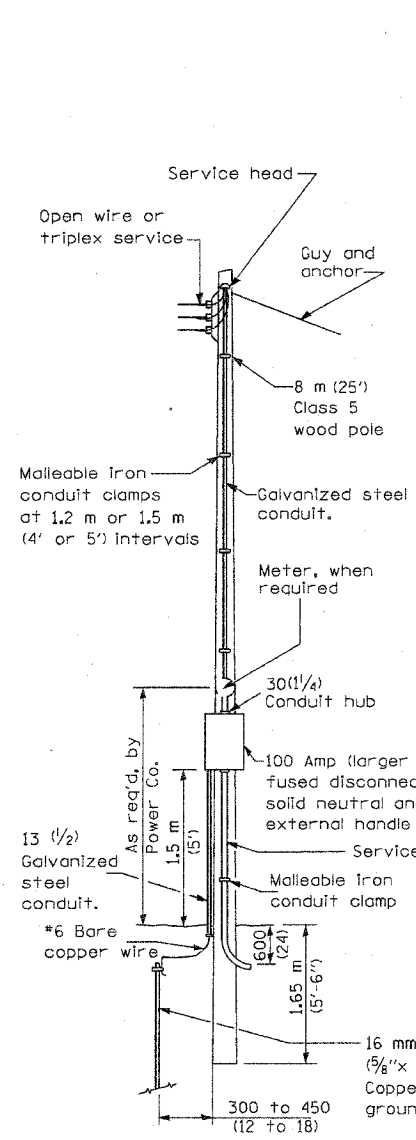
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ILLINOIS DEPARTMENT OF TRANSPORTATION

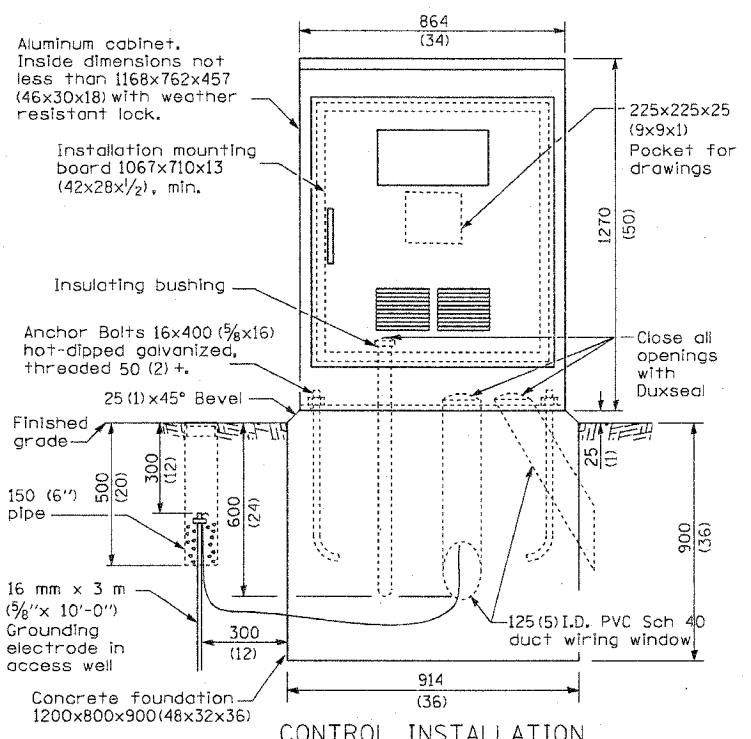
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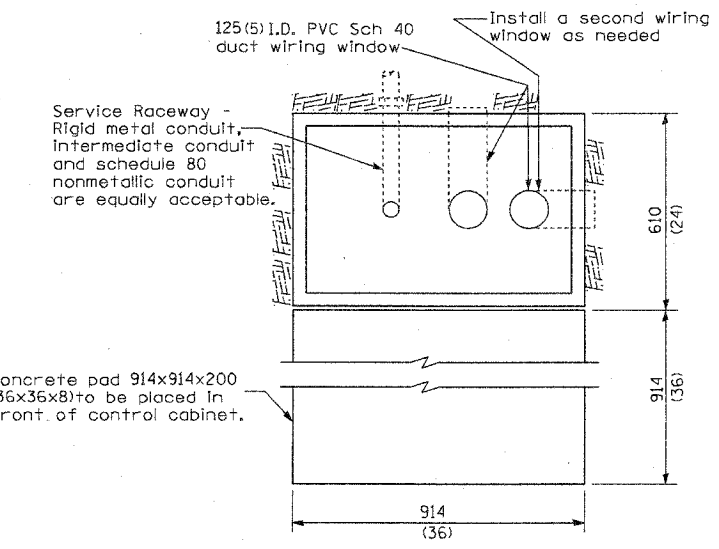
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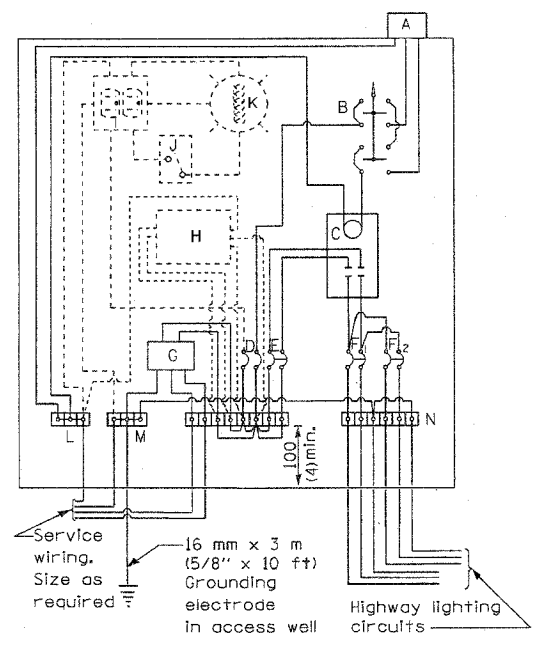
SERVICE POLE



CONTROL INSTALLATION (FRONT VIEW)



FOUNDATION (TOP VIEW)



CONTROL SCHEMATIC

MATERIALS

- A Photocell w/ integral surge arrester (remote mount in urban areas)
  - B 3 position selector switch HAND-OFF-AUTO
  - C 100 amp electrically held contactor, 120V operating coil
  - D 15 amp, 1 pole, circuit breaker
  - E 100 amp, 2 pole, main circuit breaker
  - F 20 amp, 2 pole, branch circuit breaker (typ). 2 spare c.b. required but not shown
  - G Surge arrester
  - H Transformer (see notes), 1 KVA, 240/480V primary, 120/240V sec, single phase
  - I GFCI duplex receptacle
  - J Single pole, single throw switch
  - K Shielded security fixture with 100W lamp
  - L Neutral bar
  - M Equipment ground bar
  - N Terminal block (typ)
- (\* = Size larger as needed)

GENERAL NOTES

Locate service pole and control installation adjacent to R.O.W. line with a minimum distance of 9 m (30') from the edge of pavement. Locate in close proximity to the utility transformer so the service drop does not exceed 46 m (150ft) and the total distance of overhead and underground cable (utility transformer to lighting controller) does not exceed 76 m (250ft). Exact location shall be established by the Engineer.

Wiring shall be panel board fashion. All bends shall be right angles. All runs shall vertical or parallel to panel board. Wires shall be grouped or laced.

All control installation components shall be U.L. listed.

Add receptacle, light, and switch in control cabinet, when specified.

For 480 V service, a step down transformer (dashed lines) is required.

Raceways shall terminate 75 (3) above top of concrete foundation.

Label equipment ground buss and neutral buss.

All dimensions are in millimeters (inches) unless otherwise shown.

240 V. SERVICE  
 480 V. SERVICE

PLT DATE: 10/15/85  
 FILE NAME: 85427-93A  
 PLOT SCALE: 1/8"=1'-0"  
 USER NAME: J. RUBEN

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ILLINOIS DEPARTMENT OF TRANSPORTATION

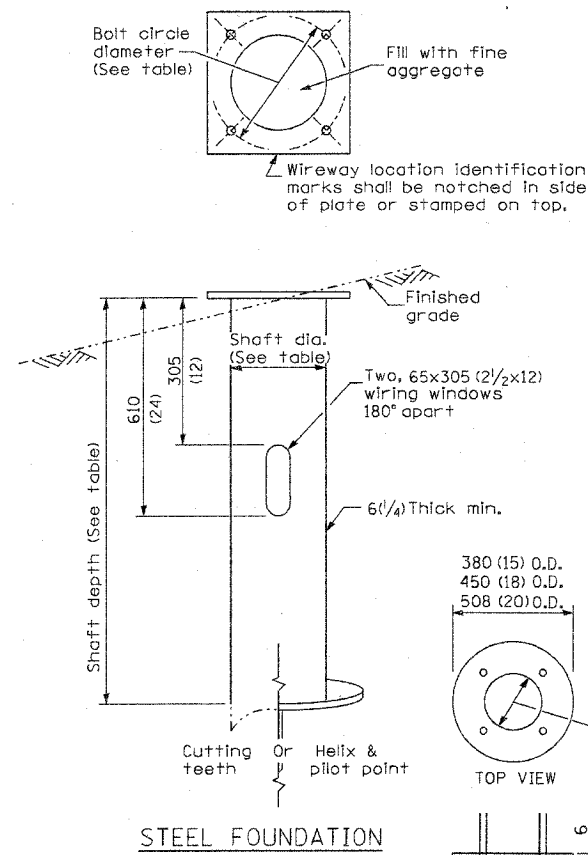
**STANDARD LGT005  
 CONTROL INSTALLATION  
 BASE MOUNT CABINET**

SCALE: VERT.      DRAWN BY  
 HORIZ.              CHECKED BY  
 DATE

| F.A. RTE.           | SECT-ION    | COUNTY                    | TOTAL SHEETS | SHEET NO. |
|---------------------|-------------|---------------------------|--------------|-----------|
| 05-00174-00-BT      | ROCK ISLAND | 112                       | 93B          |           |
| STA.                |             | TO STA.                   |              |           |
| FED. ROAD DIST. NO. |             | ILLINOIS FED. AID PROJECT |              |           |

| LIGHT POLE MOUNTING HEIGHT | BOLT CIRCLE DIAMETER | STEEL FOUNDATION |               |                                   | CONCRETE FOUNDATION |                |                     |
|----------------------------|----------------------|------------------|---------------|-----------------------------------|---------------------|----------------|---------------------|
|                            |                      | SHAFT DIAMETER   | SHAFT DEPTH   | TOP PLATE (min)                   | SHAFT DIAMETER      | SHAFT DEPTH    | ANCHOR ROD LENGTH ① |
| <9.1 m (30')               | 292 (11.5)           | 220 (8 7/8)      | 1.83 m (6')   | 300 x 300 x 25<br>12 x 12 x 1     | 610 (24)            | 1.52 m (5'-0") | 1.45 m (4'-9")      |
| 9.4 m - 10.7 m (31'-35')   | 292 (11.5)           | 220 (8 7/8)      | 1.83 m (6')   | 300 x 300 x 25<br>12 x 12 x 1     | 610 (24)            | 1.67 m (5'-6") | 1.60 m (5'-3")      |
| 10.9 m - 12.2 m (36'-40')  | 381 (15) ③           | 220 (8 7/8)      | 1.83 m (6') ② | 375 x 375 x 31<br>15 x 15 x 1 1/4 | 762 (30)            | 1.83 m (6'-0") | 1.75 m (5'-9")      |
| 12.5 m - 13.7 m (41'-45')  | 381 (15) ③           | 220 (8 7/8)      | 1.83 m (6') ② | 375 x 375 x 31<br>15 x 15 x 1 1/4 | 762 (30)            | 1.98 m (6'-6") | 1.90 m (6'-3")      |
| 14.0 m - 15.2 m (46'-50')  | 381 (15) ③           | 220 (8 7/8)      | 2.44 m (8')   | 375 x 375 x 31<br>15 x 15 x 1 1/4 | 762 (30)            | 2.13m (7'-0")  | 2.00 m (6'-9")      |

- ① Length does not include 100(4)hook
- ② 220 mm x 2.44 m (8 7/8" x 8'-0") for Twin luminaires
- ③ Bolt circle diam. shall be 430 (17) when a TB3-17 transformer base is used



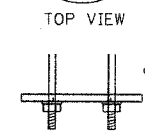
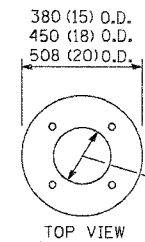
STEEL FOUNDATION

RING PLATE DETAIL  
(When rock is encountered and foundation is shallower)

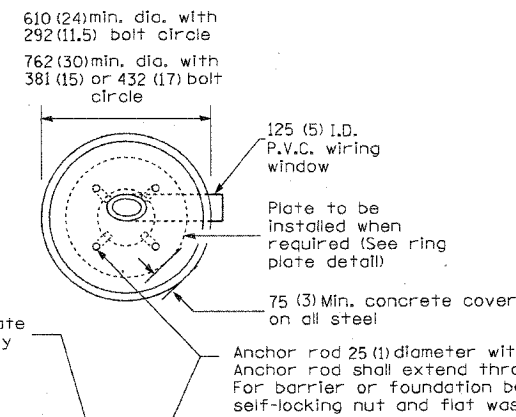
Length above foundation shall be adjusted to accommodate breakaway devices furnished by the contractor for a specific installation.

Use dirt removed from foundation to meet 1.52m (5 ft.) chord fill around foundation top. Grade dirt level with bottom of concrete chamfer.

- ④ If the required anchor rod length above top of foundation is less than 75 (3), anchor rods may be lowered below 150 (6).



CONCRETE FOUNDATION



Cast bronze clamp  
16 mm x 3 m (5/8" x 10')  
Copperclad grounding electrode. When foundation is set in rock, install ground electrode in cable trench.

Pole Foundation Setback:

For horizontal mounted luminaires, setback shall be a minimum of 6.1 m (20') from edge of pavement.

For vertical mount luminaires, setback shall be a minimum of 9 m (30') from edge of pavement. Poles shall be located 1.5 m (5') behind guardrail or other protective barriers, or as directed by the Engineer.

Notes:

- 1) Wireway may be on front, back or side of foundation as required by the trenching. Place door of transformer base on wireway side to minimize the number of unit duct bends.
- 2) Top of schedule 40 125 (5) I.D. PVC wiring window, shall be flush with the top of foundation for drainage.
- 3) All foundations are designed to be located on slopes not exceeding 2:1 where soils have an unconfined compressive strength of at least 1.0 TSF. The contractor shall verify the soil strength during drilling for concrete foundations or by monitoring installation resistance on steel foundations and notify the engineer if other conditions are encountered.
- 4) Anchor rod shall be increased to 31 (1 1/4) diameter for 15.24 (50') mounting height or above.
- 5) TB3-17 transformer base is not to be used on metal foundation

All dimensions are in millimeters (inches) unless otherwise shown.

| REVISIONS |      |
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ILLINOIS DEPARTMENT OF TRANSPORTATION

**STANDARD LGT007-836  
LIGHT POLE  
FOUNDATION**

SCALE: VERT.  
DATE

DRAWN BY  
CHECKED BY

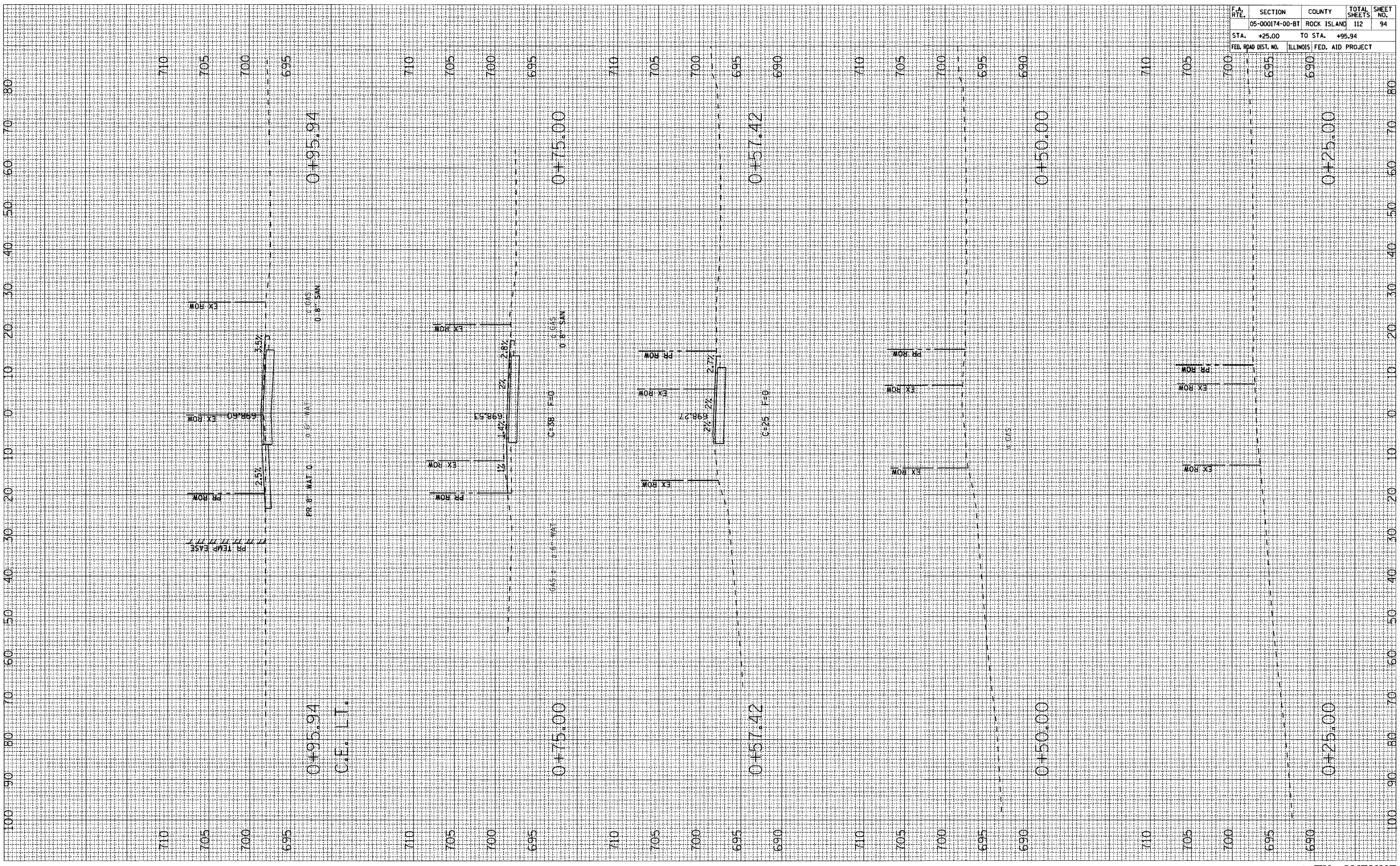


| F.A. RTE.           | SECTION                   | COUNTY      | TOTAL SHEETS | SHEET NO. |
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| STA.                | +25.00                    | TO STA.     | +95.94       |           |
| FED. ROAD DIST. NO. | ILLINOIS FED. AID PROJECT |             |              |           |

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

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| NOTE BOOK       | PLOTTED       |    |      |
| NO.             | TEMPLATE      |    |      |
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 USER NAME = JUSERS



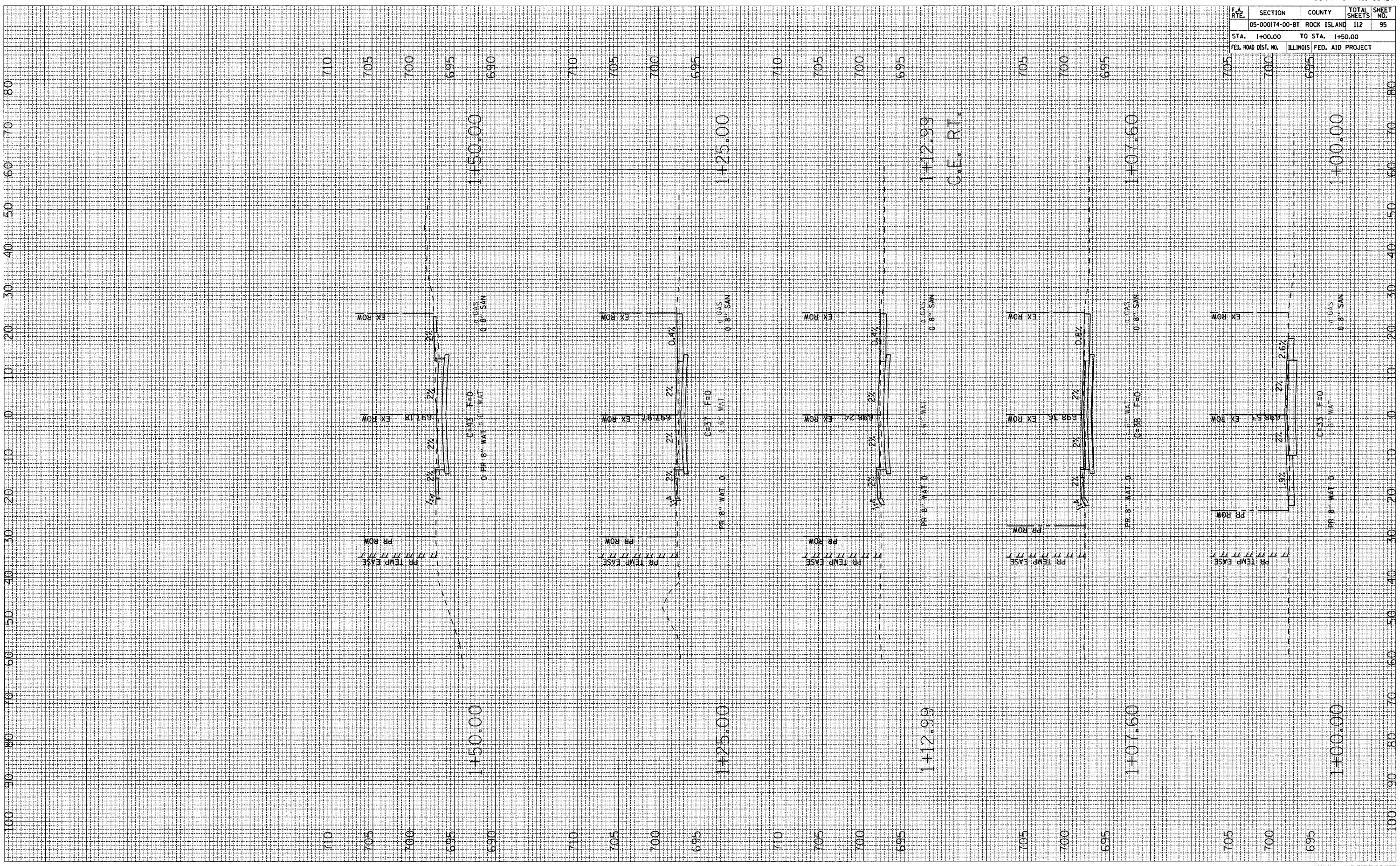


| F.A. DIST.          | SECTION                   | COUNTY      | TOTAL SHEETS | SHEET NO. |
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| FED. ROAD DIST. NO. | ILLINOIS FED. AID PROJECT |             |              |           |

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| FINAL SURVEY  | SURVEYED      | BY | DATE |
| NOTE BOOK NO. | PLOTTED       |    |      |
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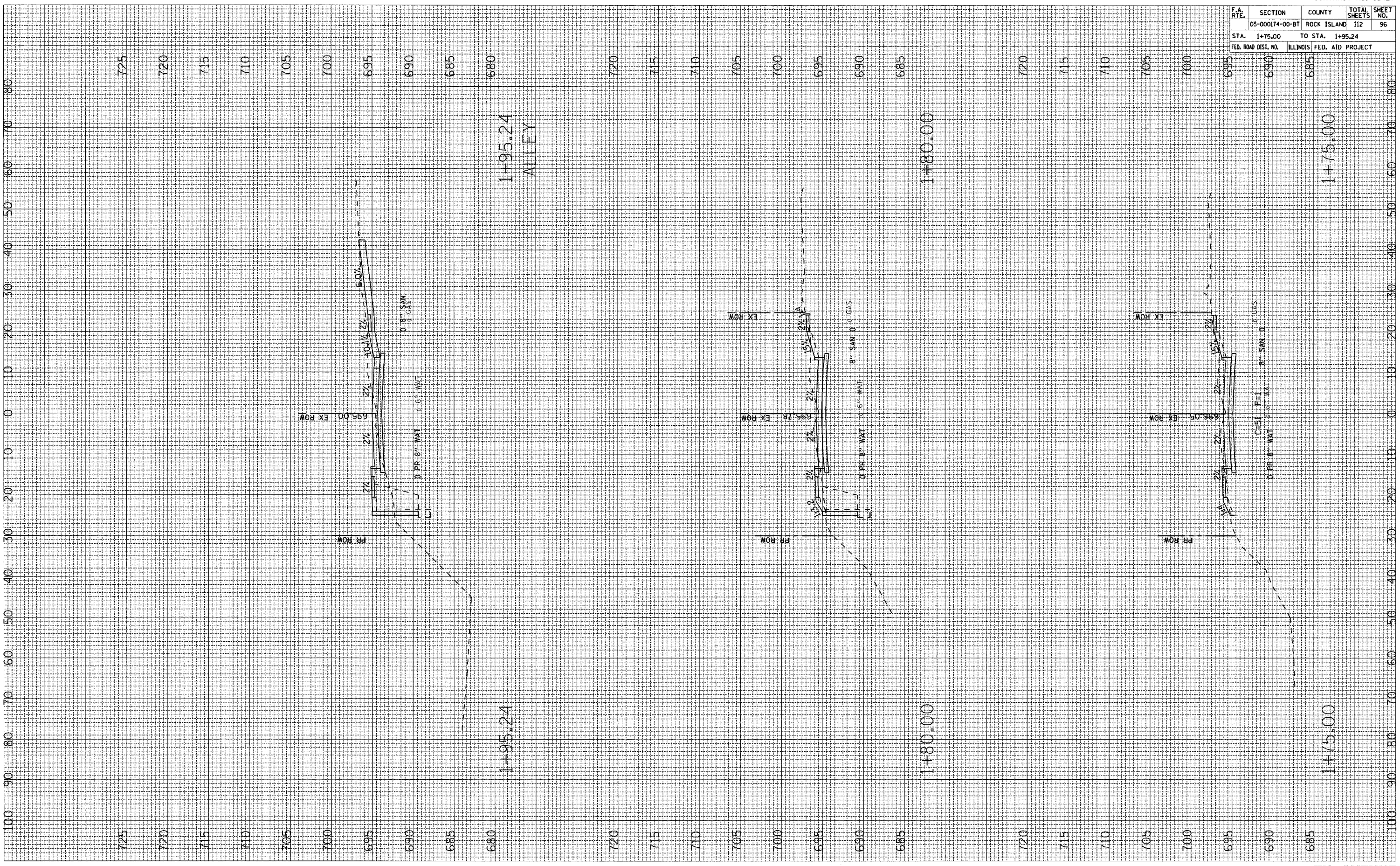


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| FED. ROAD DIST. NO. | ILLINOIS FED. AID PROJECT |             |              |           |

| FINAL SURVEY NO. | SURVEY PLOTTED TEMPLATE AREAS CHECKED | BY | DATE |
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 USER NAME • BUSER#



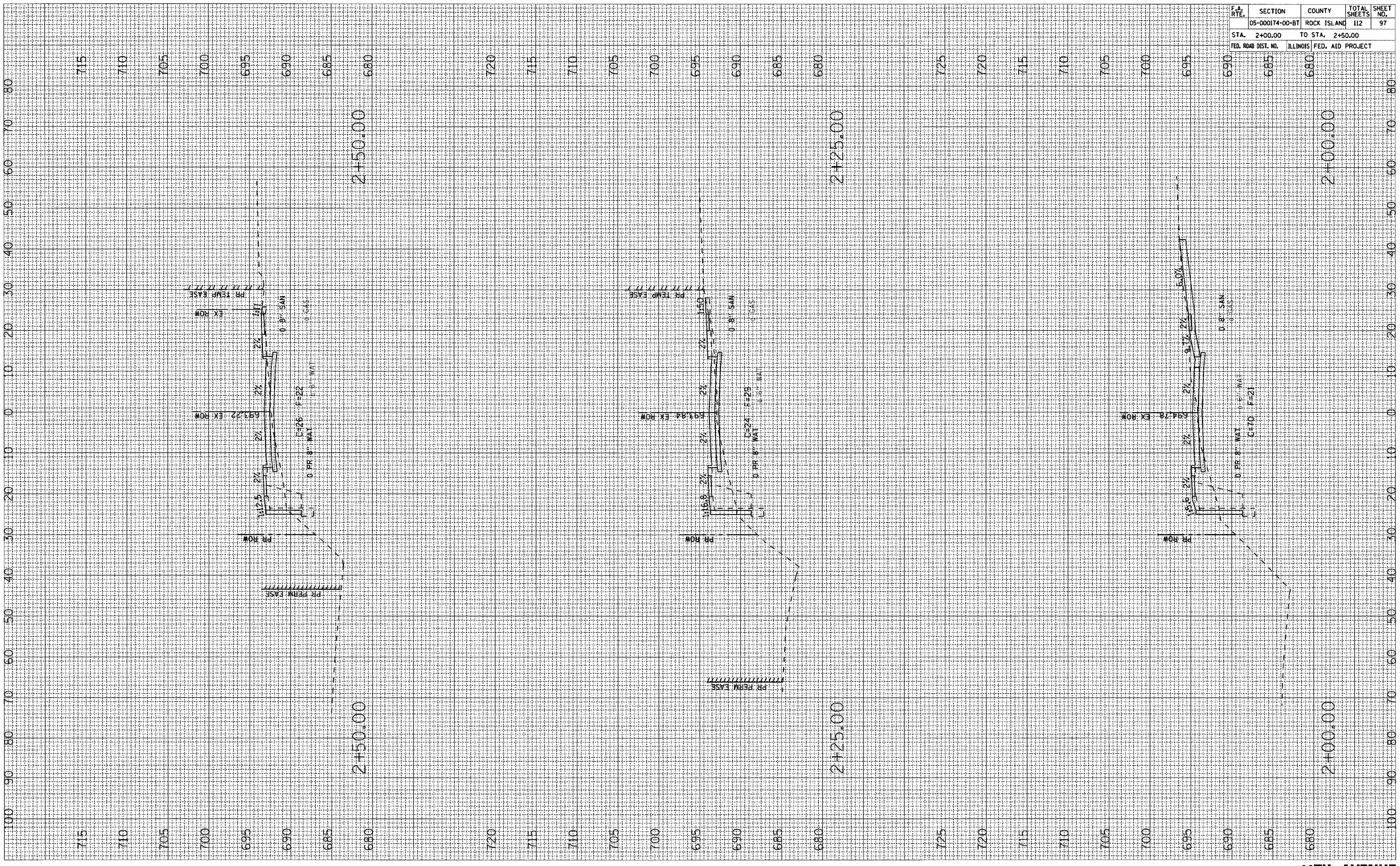


| F.A. RTE.           | SECTION         | COUNTY                    | TOTAL SHEETS | SHEET NO. |
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| FED. ROAD DIST. NO. |                 | ILLINOIS FED. AID PROJECT |              |           |

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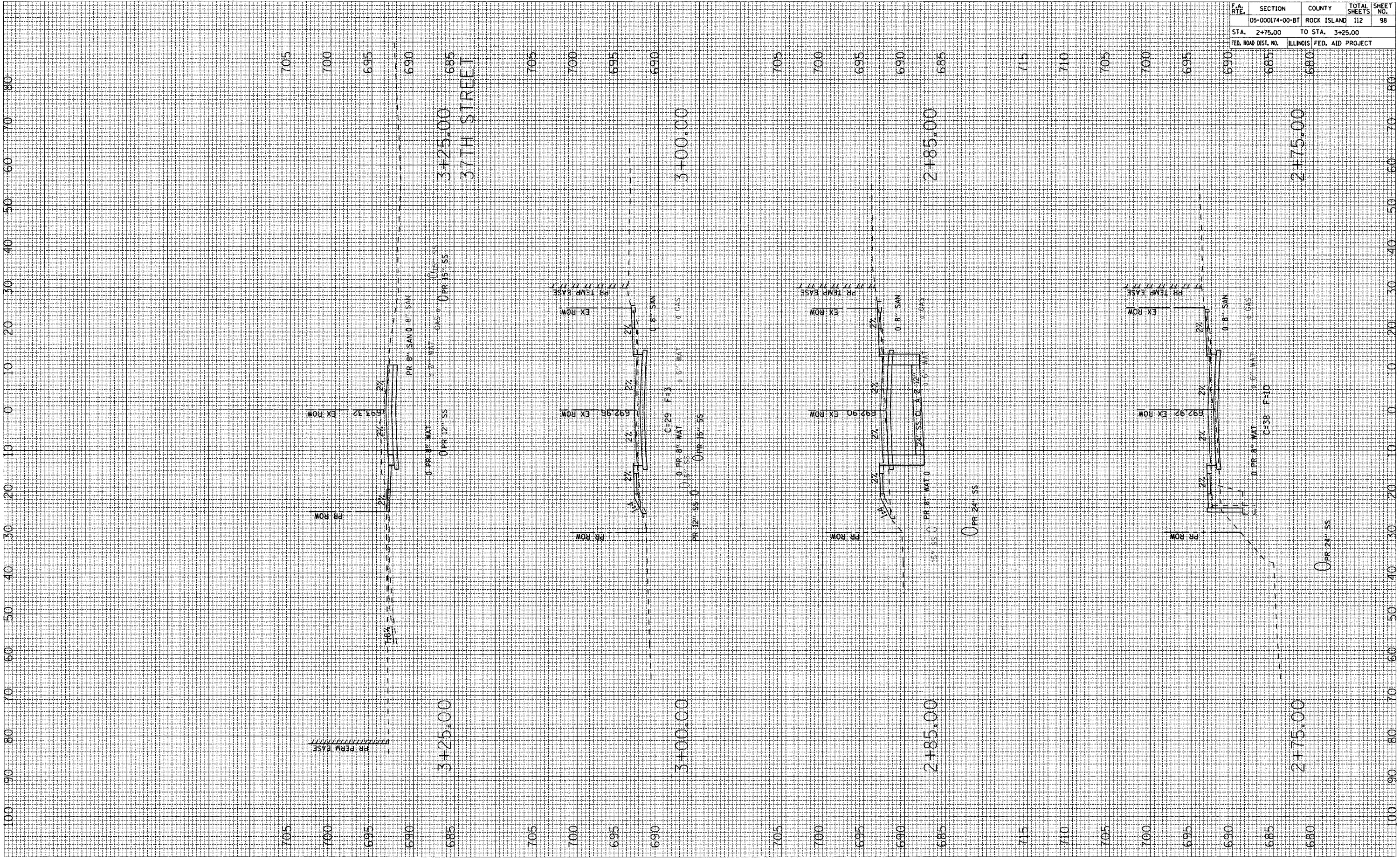


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| FED. ROAD DIST. NO. | ILLINOIS FED. AID PROJECT |             |              |           |

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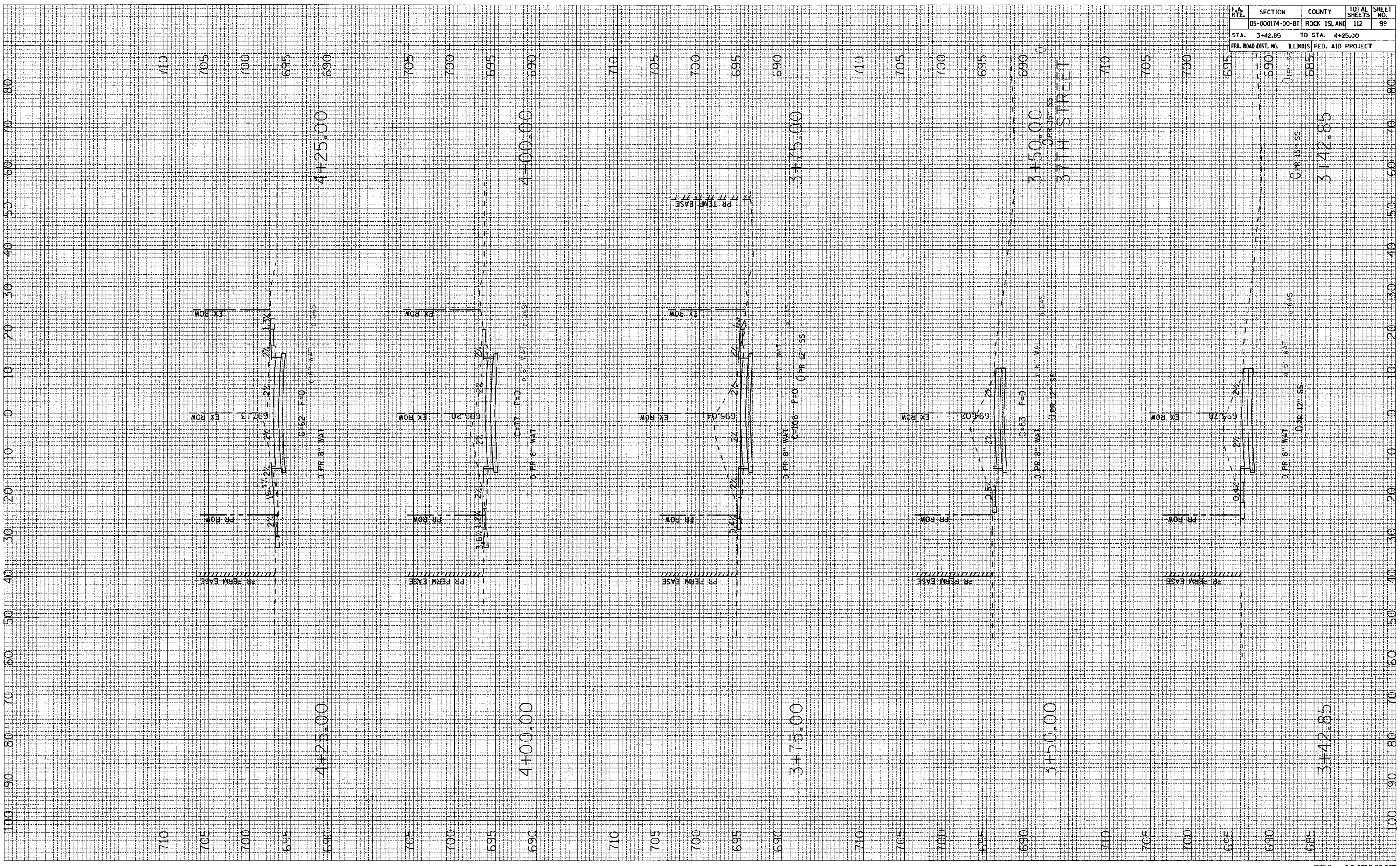


| F.A. RTE.           | SECTION                   | COUNTY | TOTAL SHEETS | SHEET NO. |
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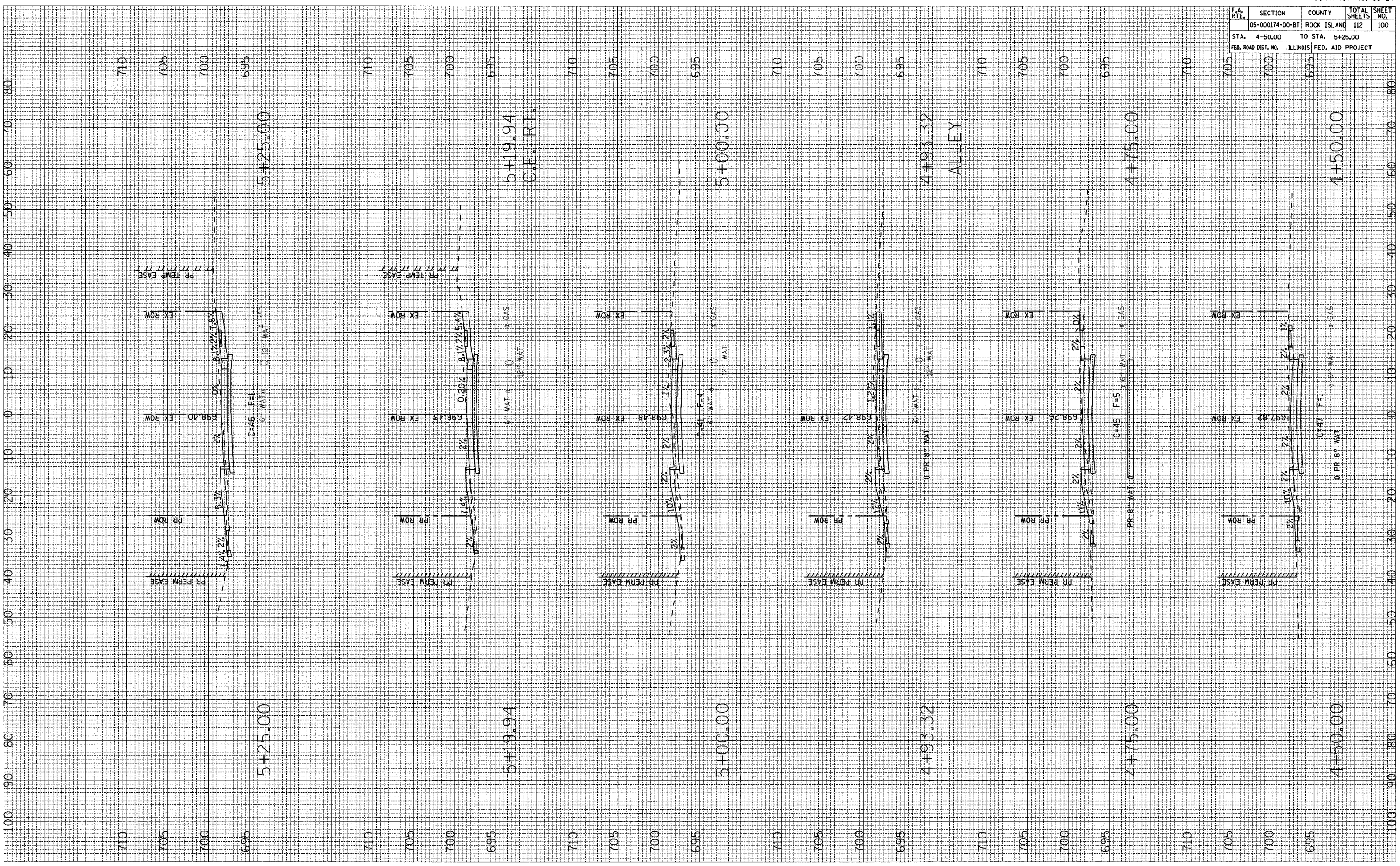


| F.A. RTE.           | SECTION         | COUNTY                    | TOTAL SHEETS | SHEET NO. |
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| FED. ROAD DIST. NO. |                 | ILLINOIS FED. AID PROJECT |              |           |

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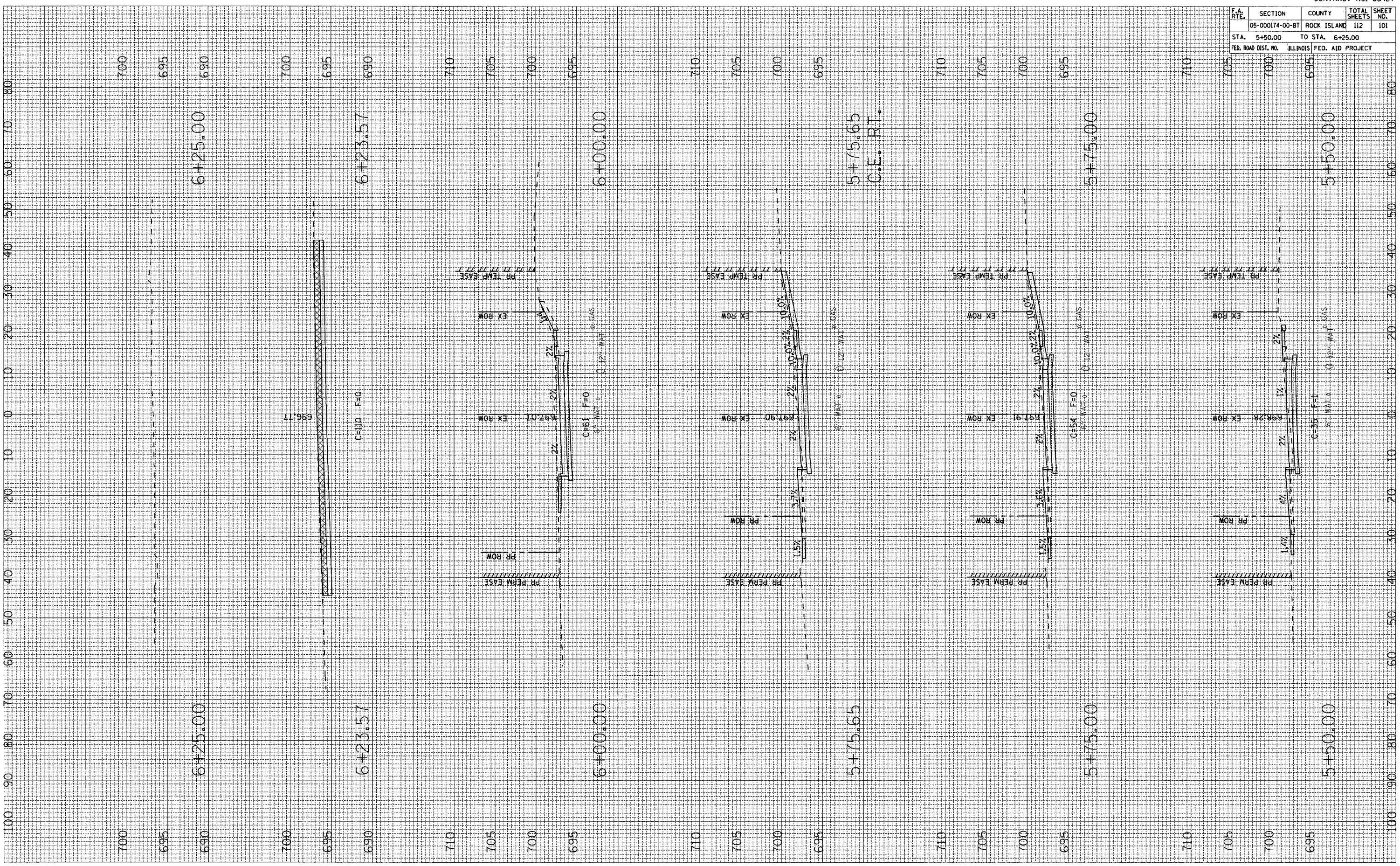


| F.A. RTE.           | SECTION                   | COUNTY      | TOTAL SHEETS | SHEET NO. |
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| STA. 5+50.00        | TO STA. 6+25.00           |             |              |           |
| FED. ROAD DIST. NO. | ILLINOIS FED. AID PROJECT |             |              |           |

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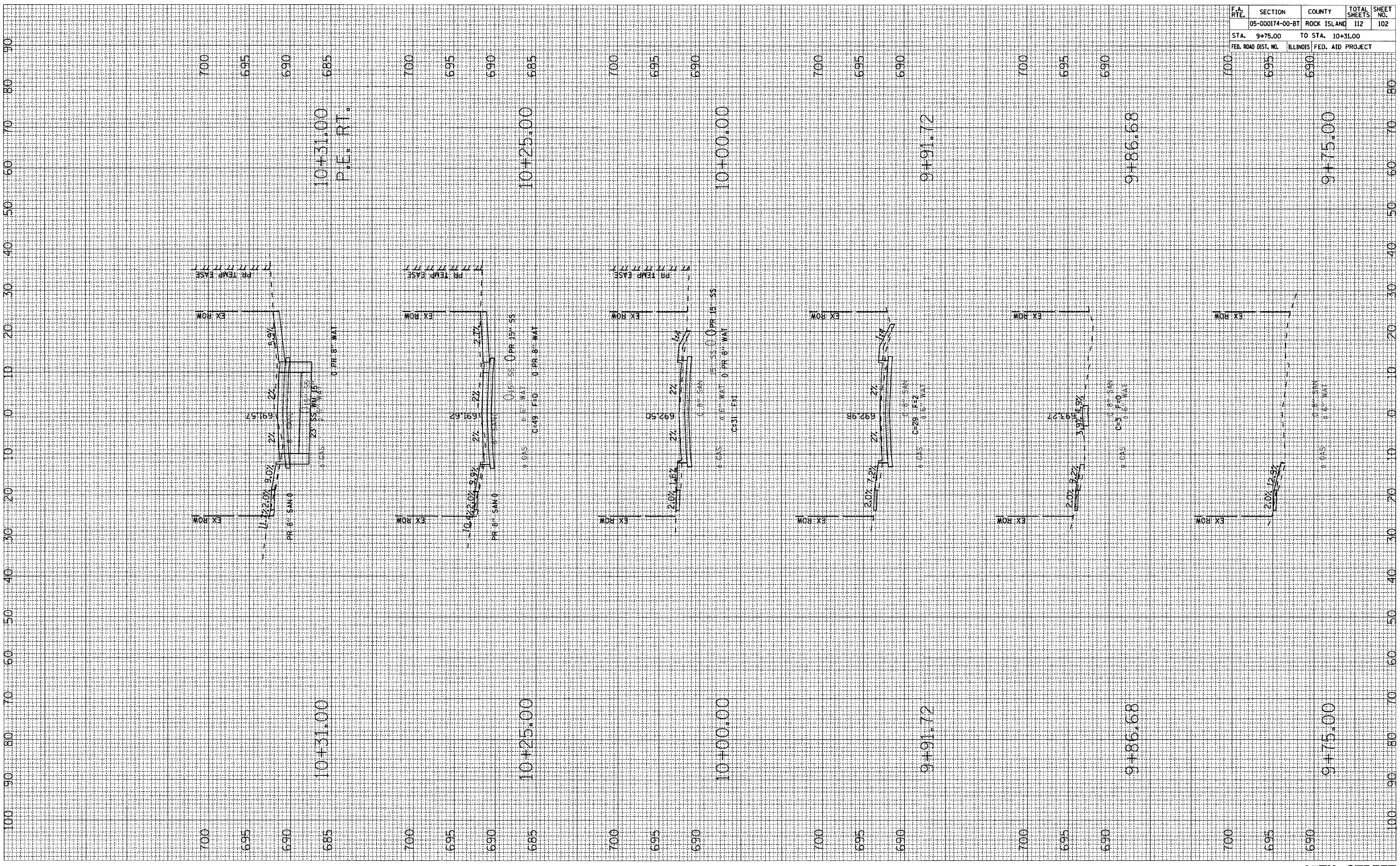


| F.A. RTE.           | SECTION                   | COUNTY      | TOTAL SHEETS | SHEET NO. |
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| FED. ROAD DIST. NO. | ILLINOIS FED. AID PROJECT |             |              |           |

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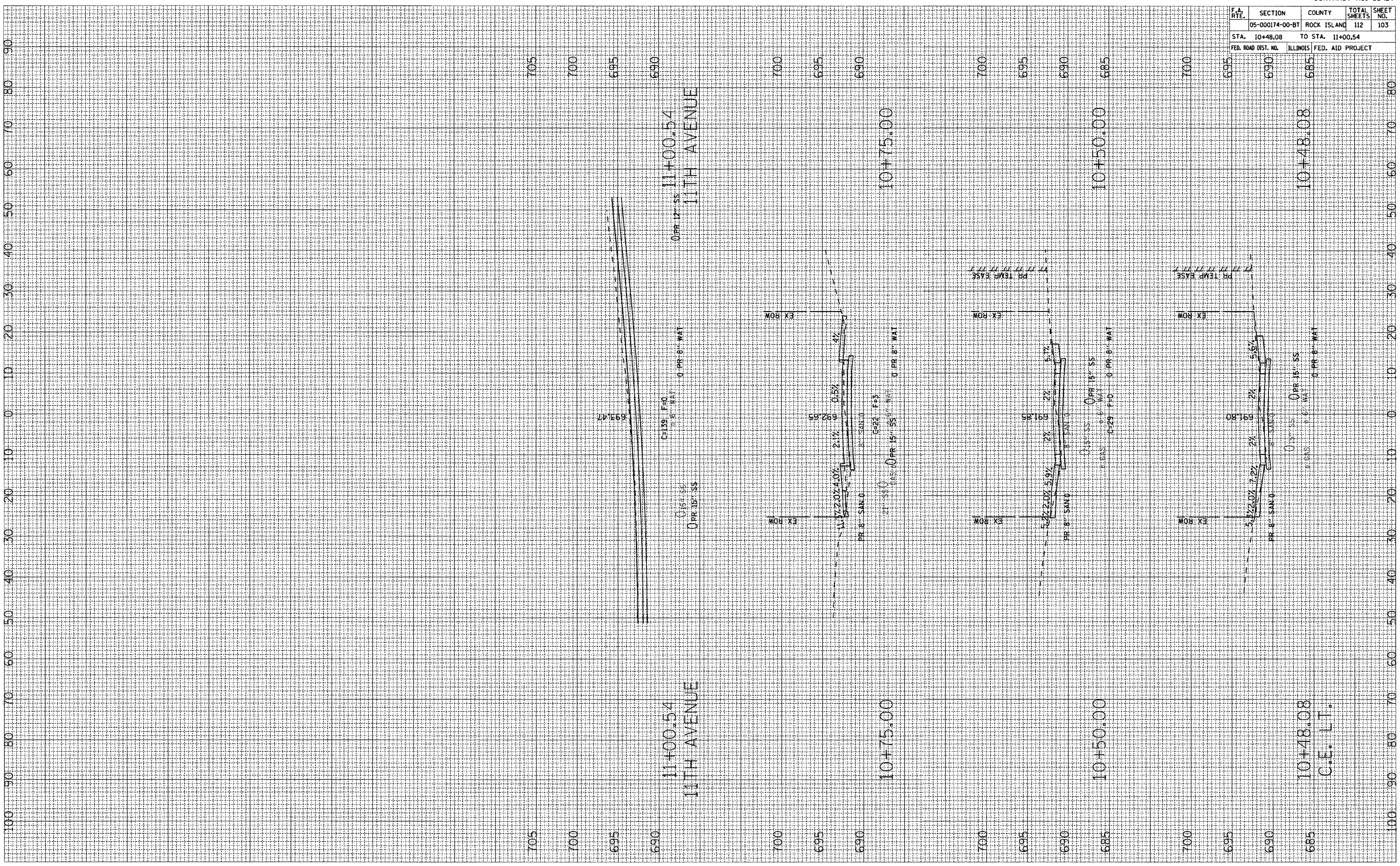


| F.A. RTE.           | SECTION         | COUNTY           | TOTAL SHEETS | SHEET NO. |
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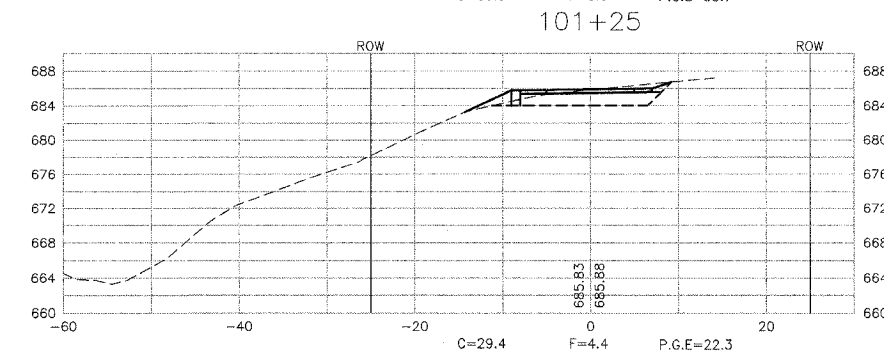
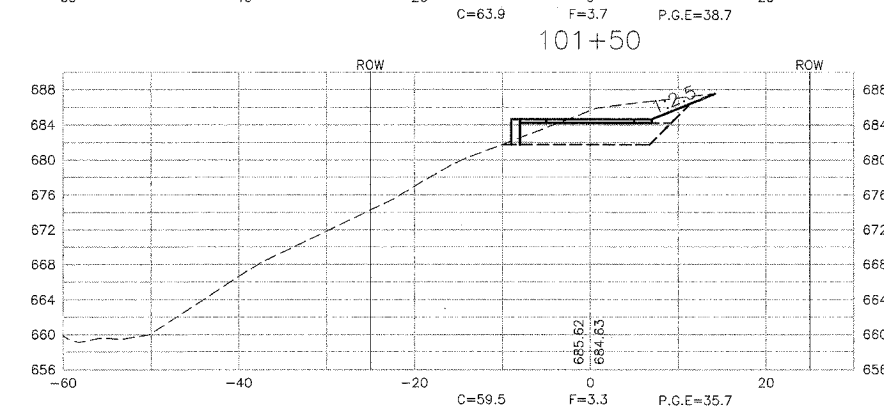
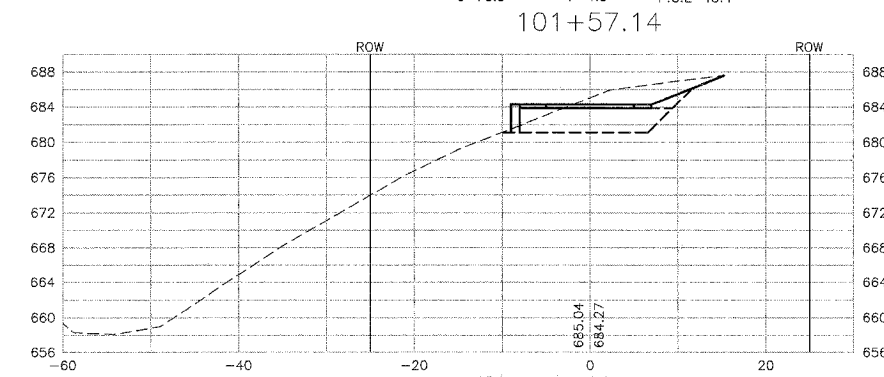
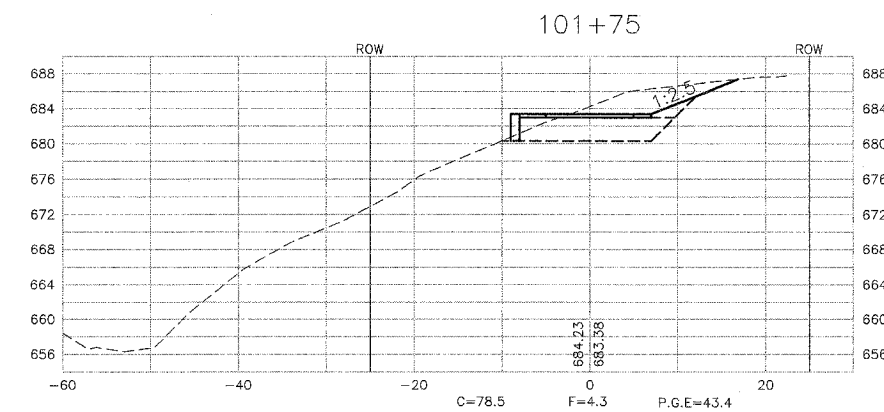
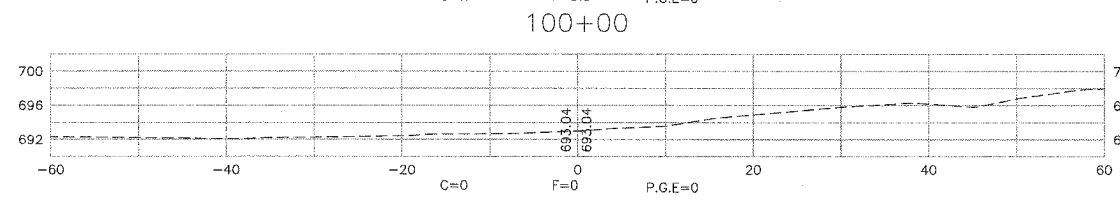
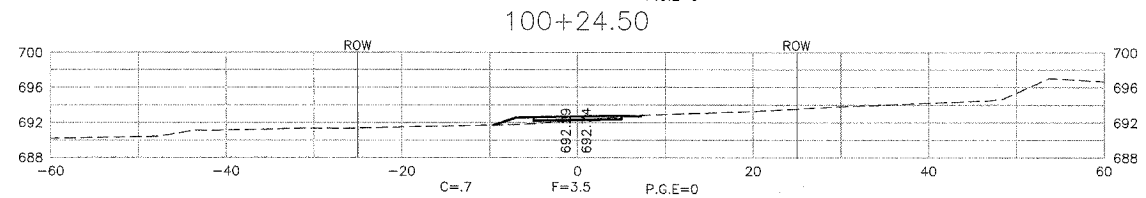
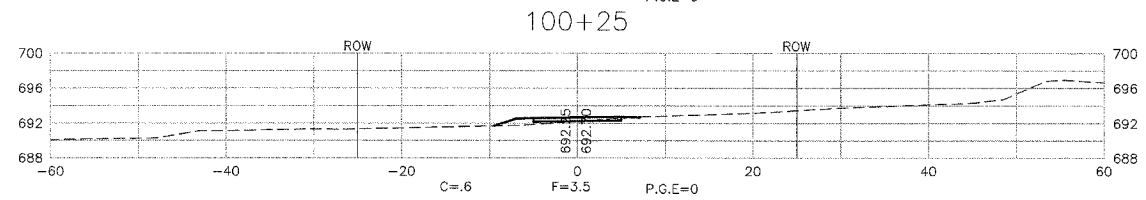
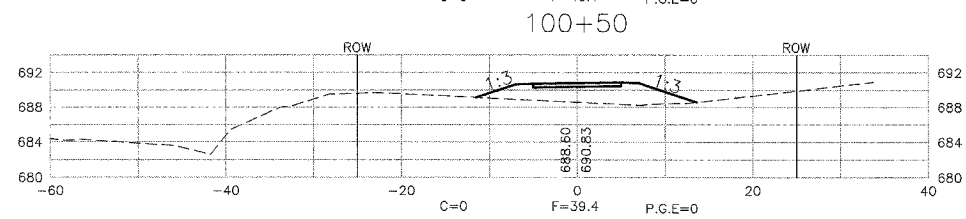
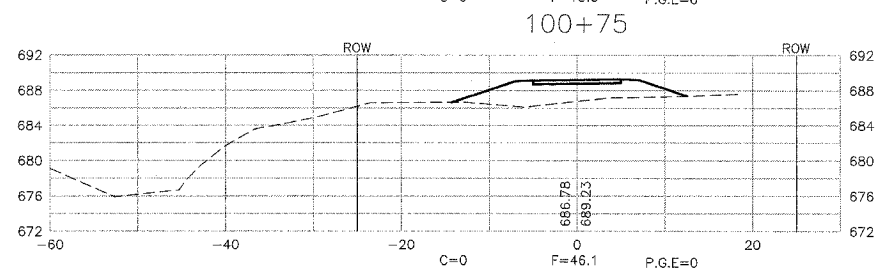
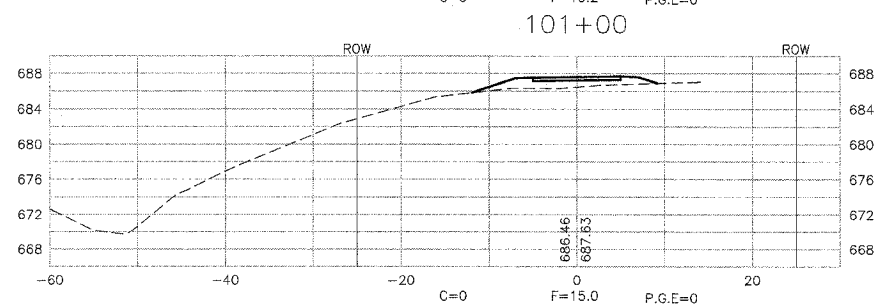
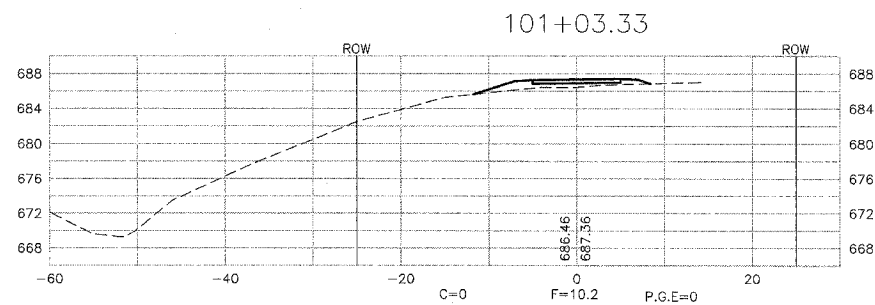
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| ORIGINAL SURVEY | SURVEYED         | BY | DATE |
| NOTE BOOK NO.   | PLOTTED TEMPLATE |    |      |
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PLOT DATE \* DATES \*  
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 USER NAME \* USERS \*



| F.A. RTE.           | SECTION  | COUNTY           | TOTAL SHEETS | SHEET NO. |
|---------------------|----------|------------------|--------------|-----------|
|                     |          | Rock Island      | 112          | 104       |
| STA. 100+00         |          | TO STA. 101+75   |              |           |
| FED. ROAD DIST. NO. | ILLINOIS | FED. AID PROJECT |              |           |



| PLAN | SURVEYED | BY | DATE |
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| NO.  | NO.      |    |      |

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 PLOT SCALE = \$SCALE\$  
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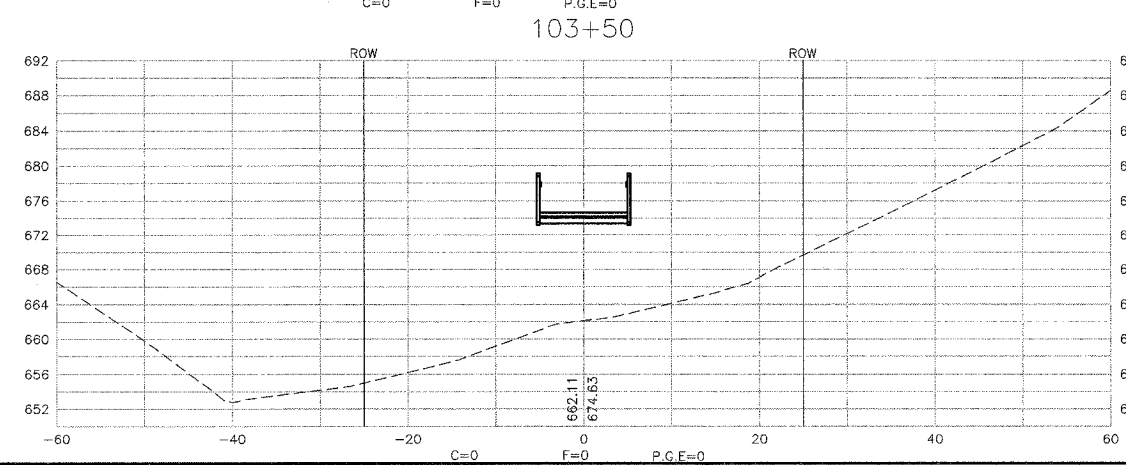
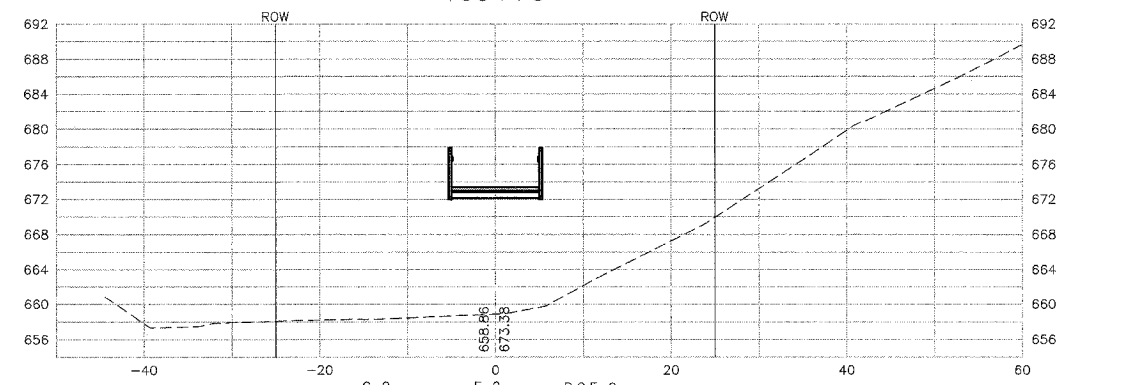
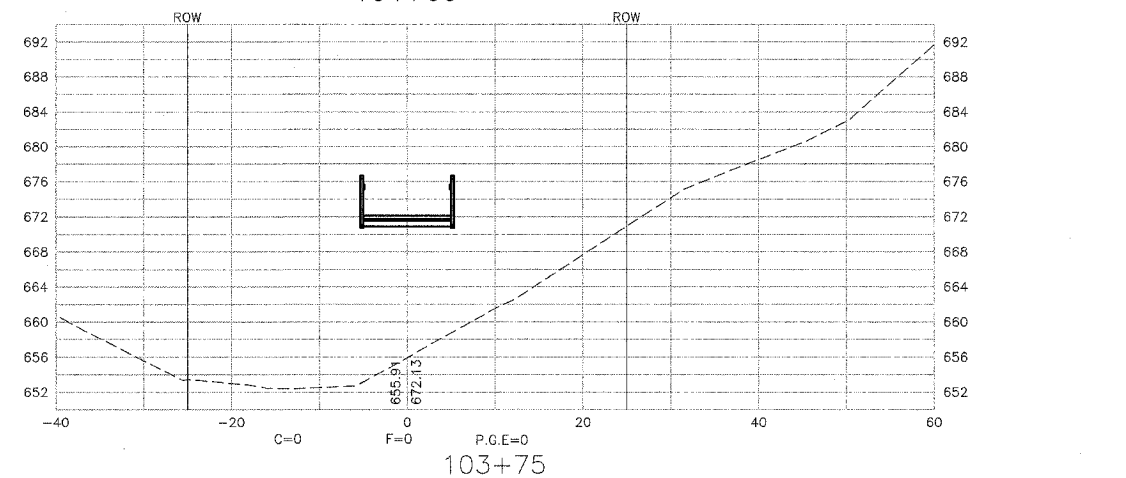
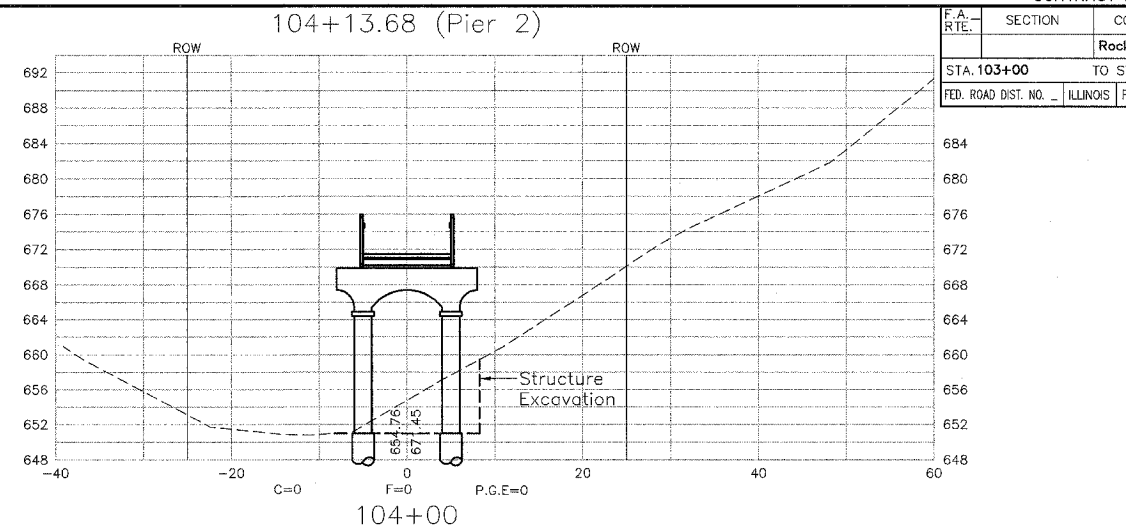
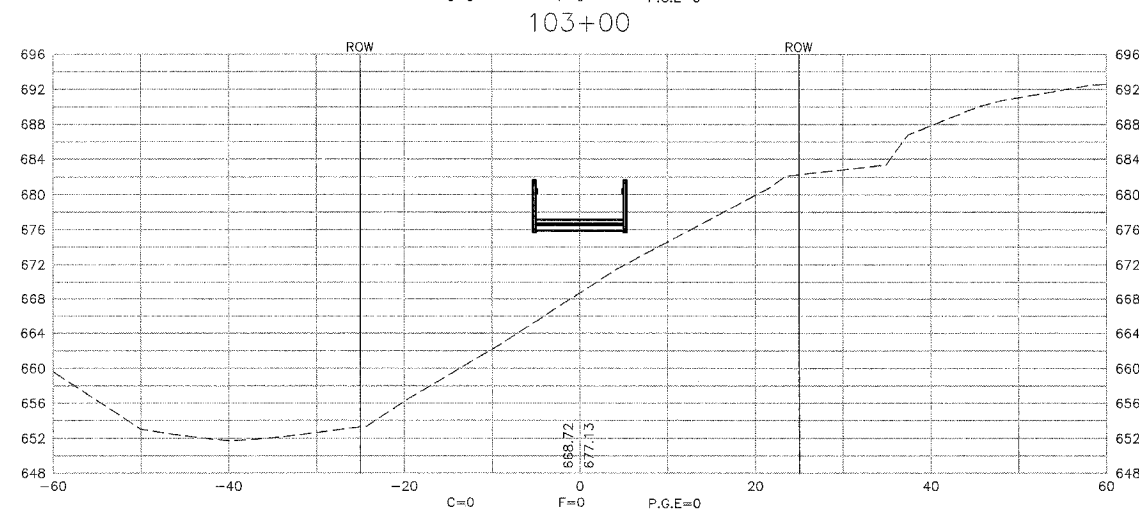
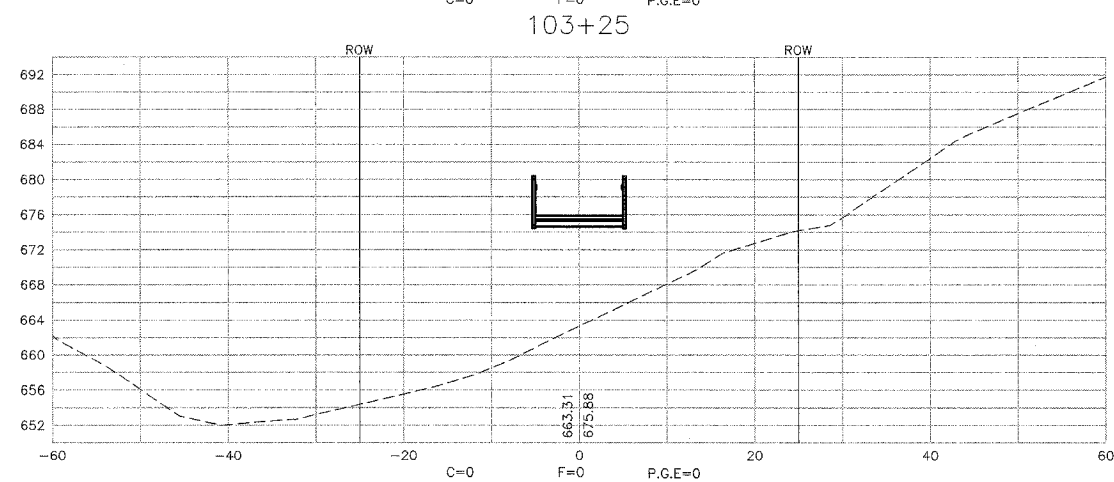
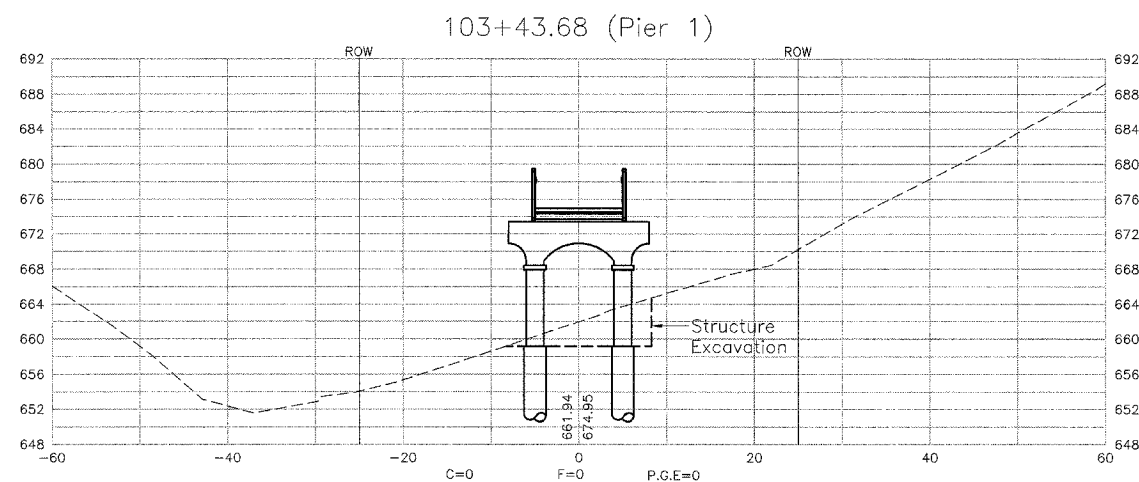


| F.A. RTE.             | SECTION | COUNTY                    | TOTAL SHEETS | SHEET NO. |
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|                       |         | Rock Island               | 112          | 106       |
| STA. 103+00           |         | TO STA. 104+13.68         |              |           |
| FED. ROAD DIST. NO. _ |         | ILLINOIS FED. AID PROJECT |              |           |

| PLAN               | DATE |
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| NOTED     | BY   |
| STRUCTURE | BY   |
| NOTATIONS | BY   |
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 PLOT SCALE = \$SCALE\$  
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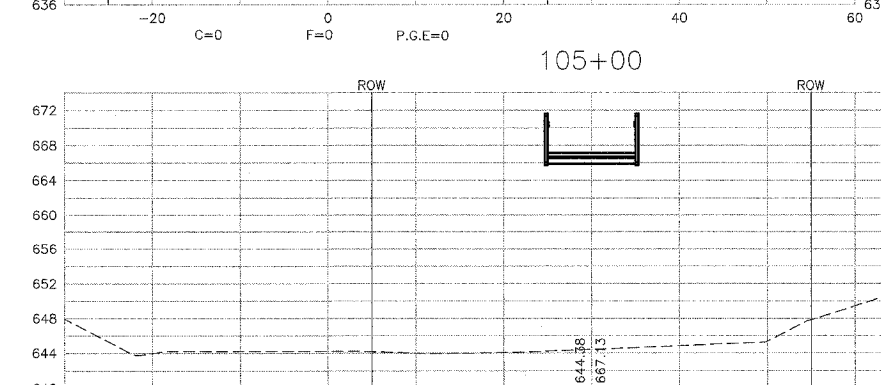
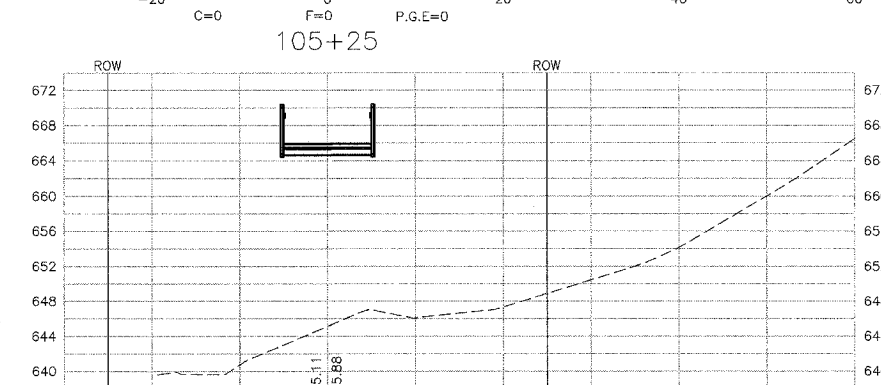
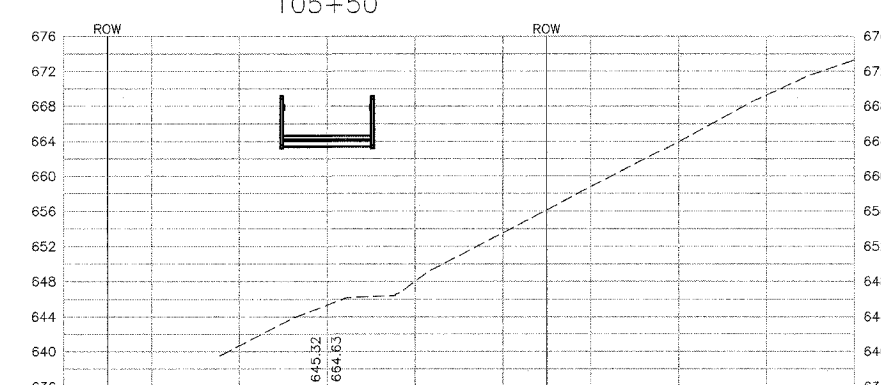
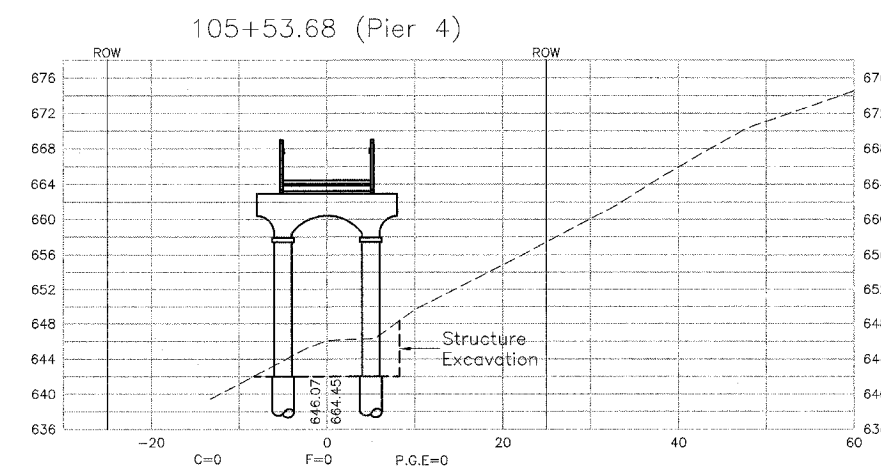
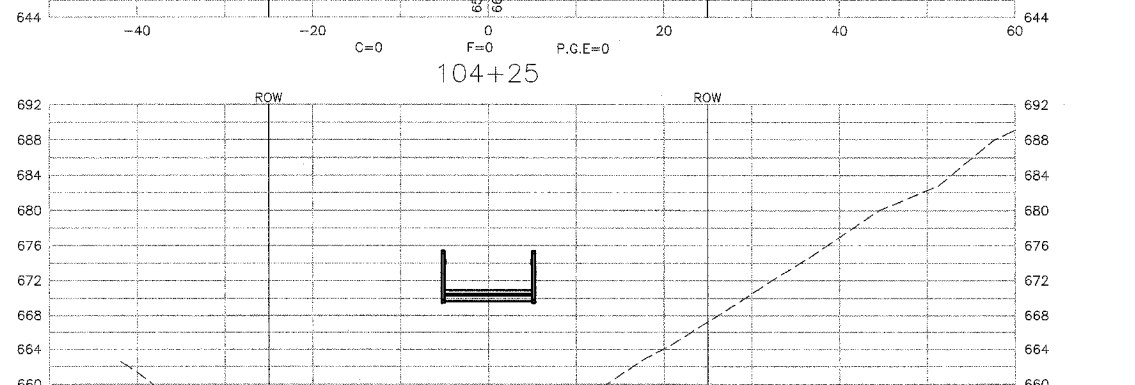
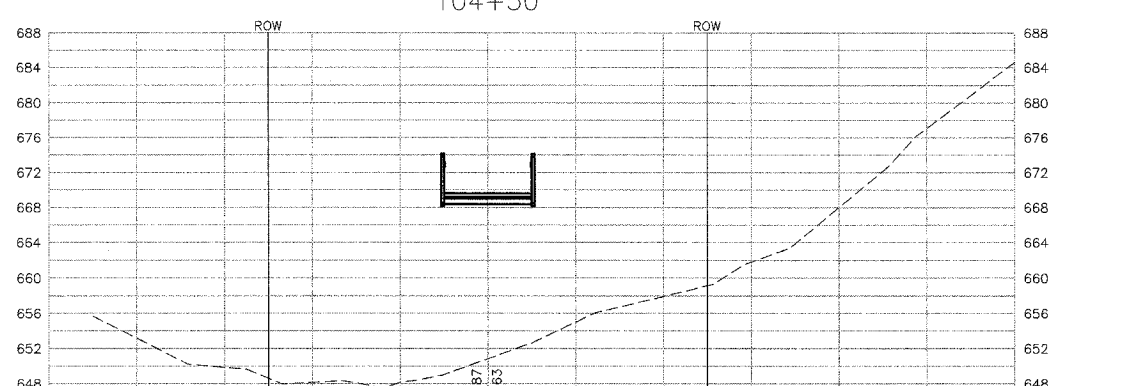
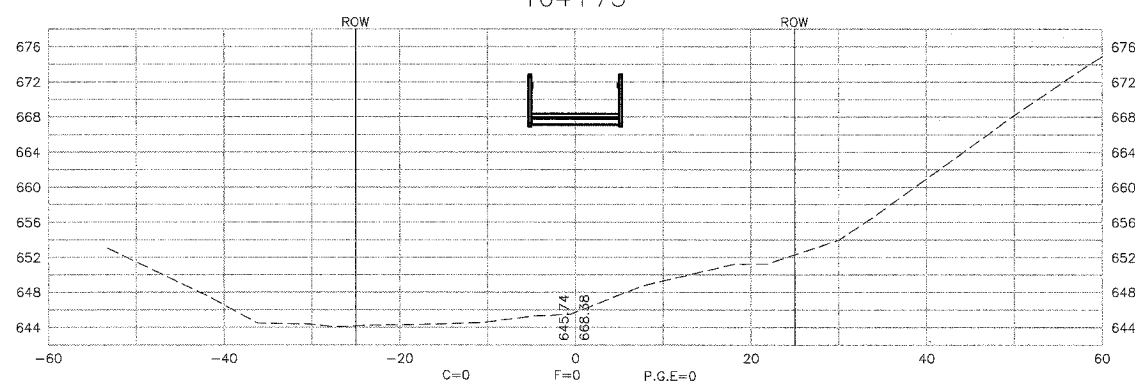
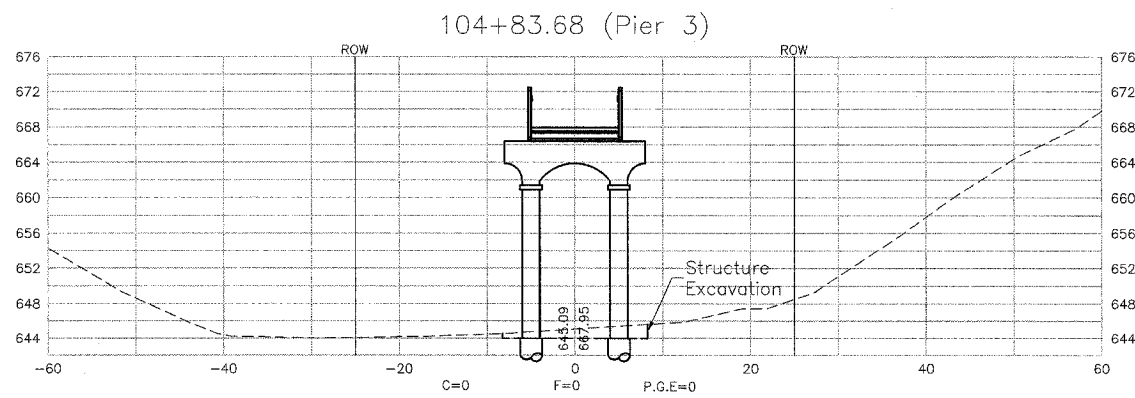


| F.A. RTE.                 | SECTION | COUNTY                    | TOTAL SHEETS | SHEET NO. |
|---------------------------|---------|---------------------------|--------------|-----------|
|                           |         | Rock Island               | 112          | 107       |
| STA. 104+25               |         | TO STA. 105+43.68         |              |           |
| FED. ROAD DIST. NO. _____ |         | ILLINOIS FED. AID PROJECT |              |           |

| PLAN | SURVEYED  | BY | DATE |
|------|-----------|----|------|
| NO.  | PLotted   |    |      |
|      | Checked   |    |      |
|      | Noted     |    |      |
|      | Structure |    |      |
|      | Notations |    |      |
|      | Checked   |    |      |
|      | Notations |    |      |
|      | Checked   |    |      |
|      | Notations |    |      |

| PROFILE | SURVEYED  | BY | DATE |
|---------|-----------|----|------|
| NO.     | Plotted   |    |      |
|         | Checked   |    |      |
|         | Noted     |    |      |
|         | Structure |    |      |
|         | Notations |    |      |
|         | Checked   |    |      |
|         | Notations |    |      |
|         | Checked   |    |      |
|         | Notations |    |      |

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 FILE NAME = \$FILE\$  
 PLOT SCALE = \$SCALE\$  
 USER NAME = \$USER\$

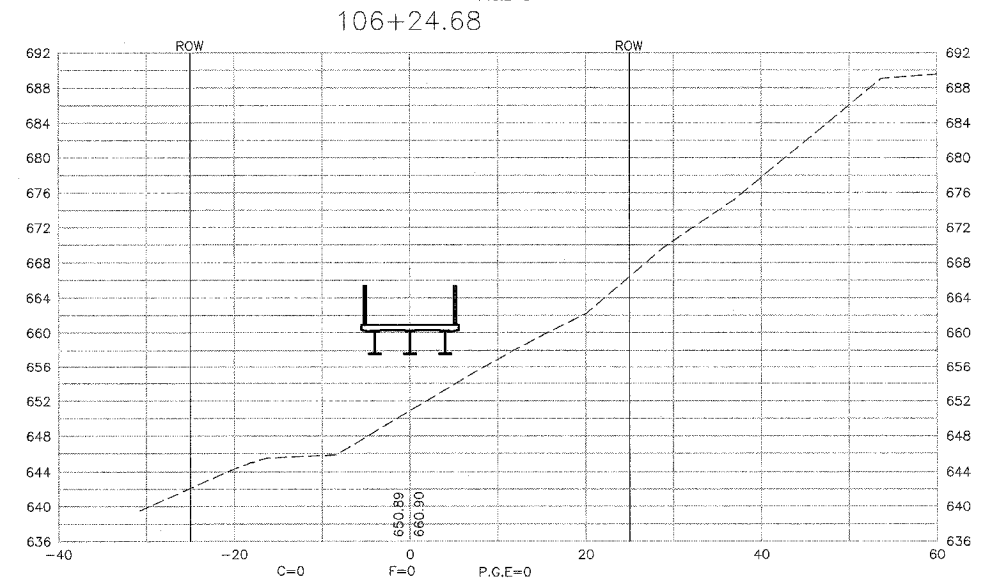
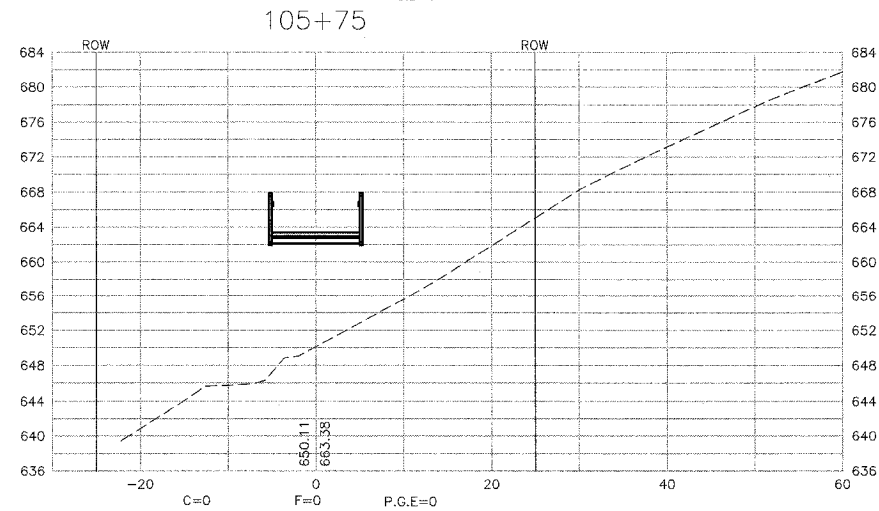
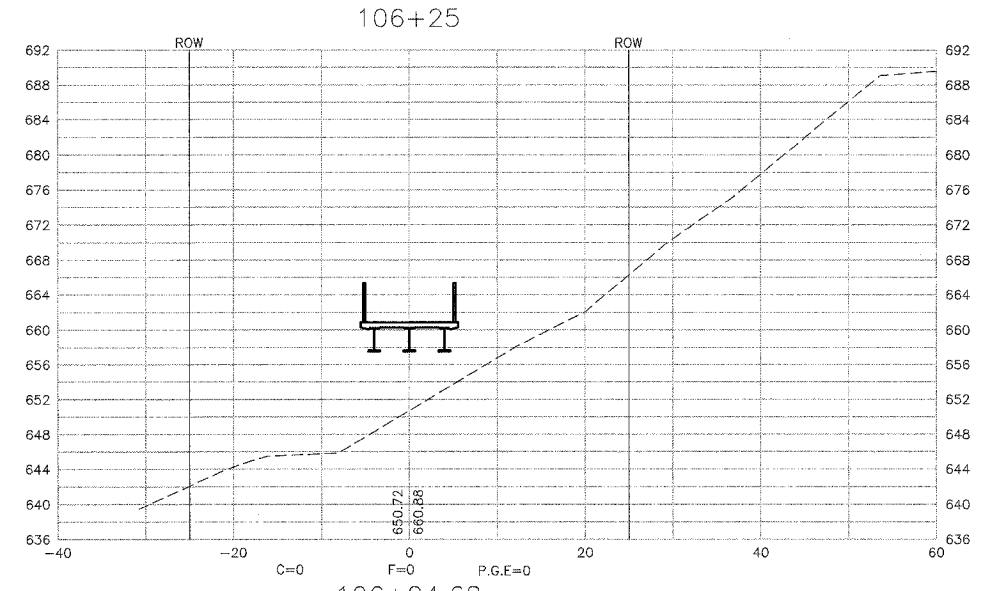
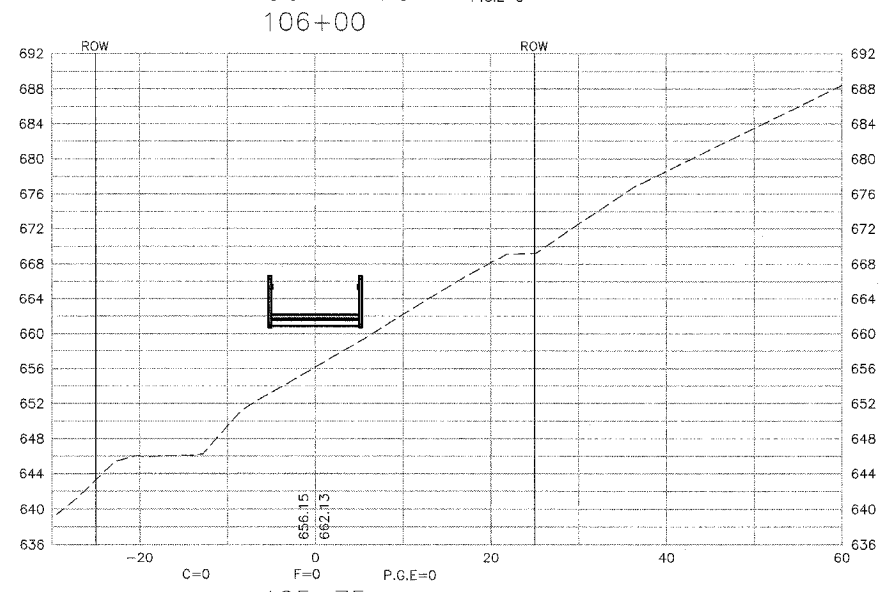
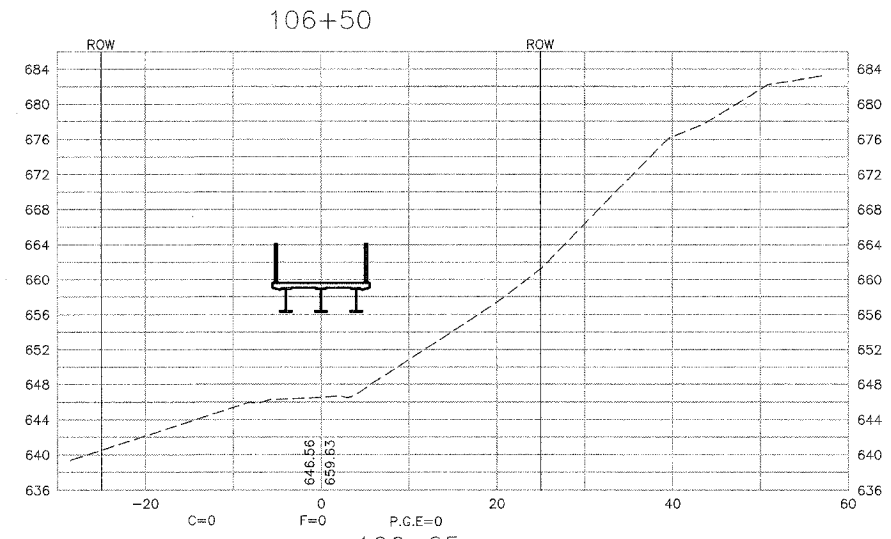
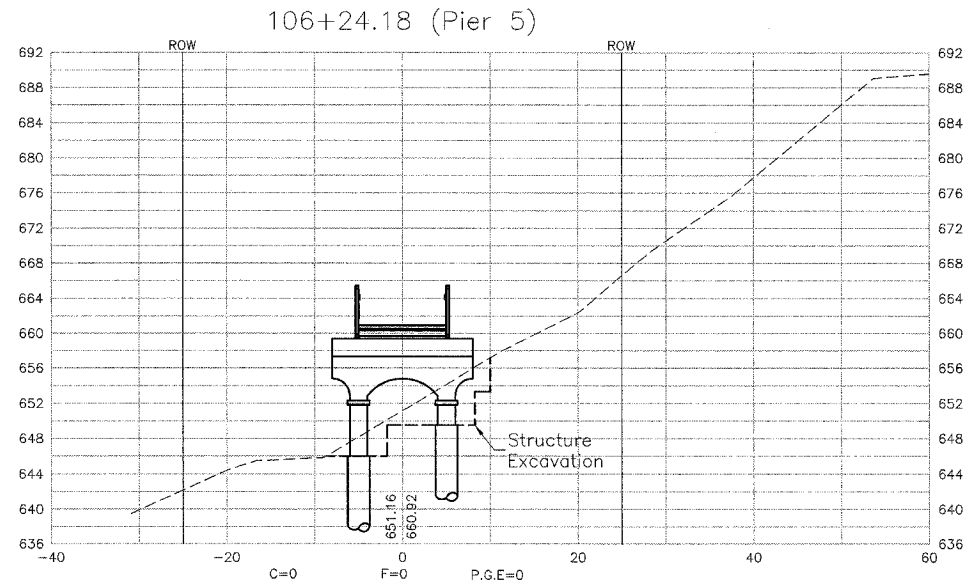


| F.A. RTE.             | SECTION | COUNTY                    | TOTAL SHEETS | SHEET NO. |
|-----------------------|---------|---------------------------|--------------|-----------|
|                       |         | Rock Island               | 112          | 108       |
| STA. 150+75           |         | TO STA. 106+50            |              |           |
| FED. ROAD DIST. NO. 1 |         | ILLINOIS FED. AID PROJECT |              |           |

| PLAN      | SURVEYED           | BY | DATE |
|-----------|--------------------|----|------|
| PLotted   | Checked            |    |      |
| NOTE BOOK | NO. OF WAY CHECKED |    |      |
| NO.       | PAID FILE NAME     |    |      |

| PROFILE   | SURVEYED                 | BY | DATE |
|-----------|--------------------------|----|------|
| Plotted   | Checked                  |    |      |
| NOTE BOOK | NO. OF WAY CHECKED       |    |      |
| NO.       | STRUCTURE NOTATIONS CHFD |    |      |

PLOT DATE = \$DATE\$  
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 USER NAME = \$USER\$

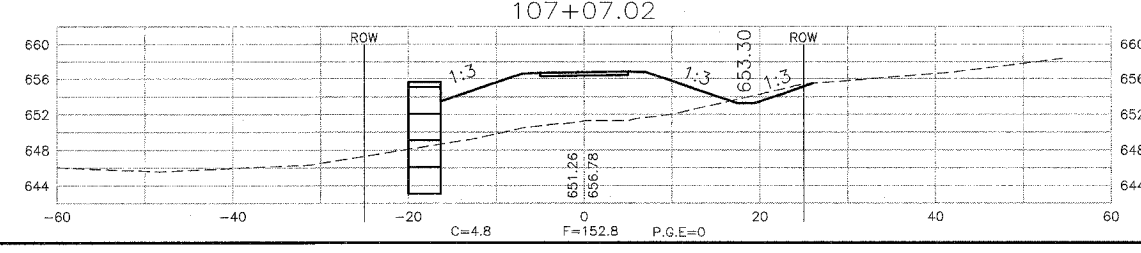
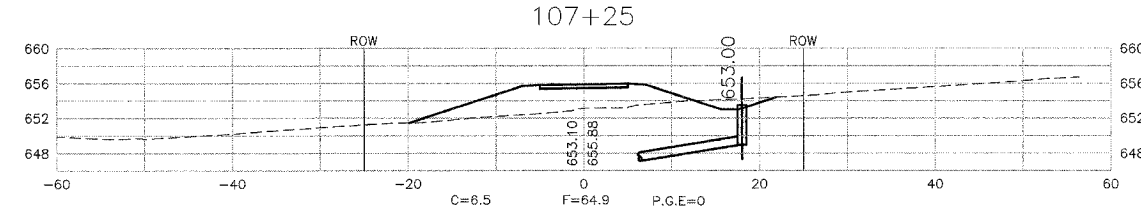
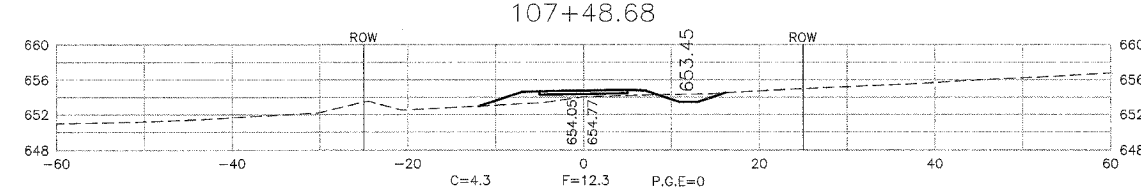
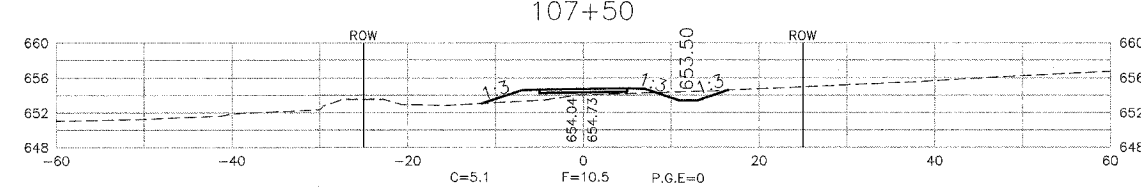
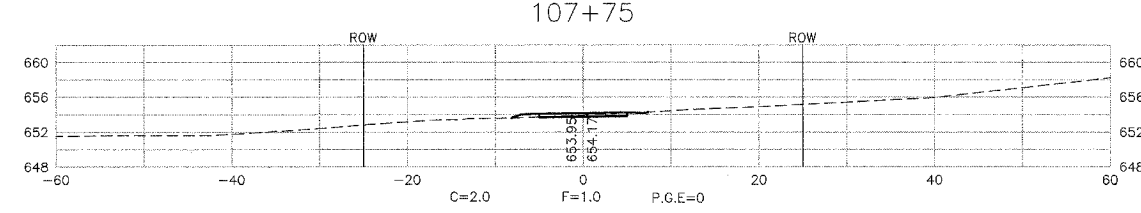
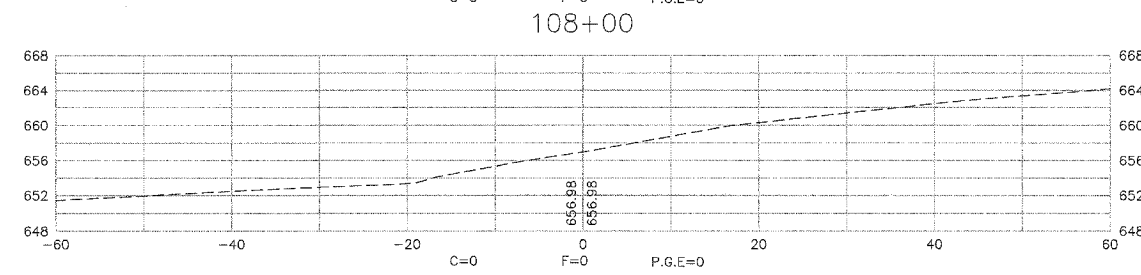
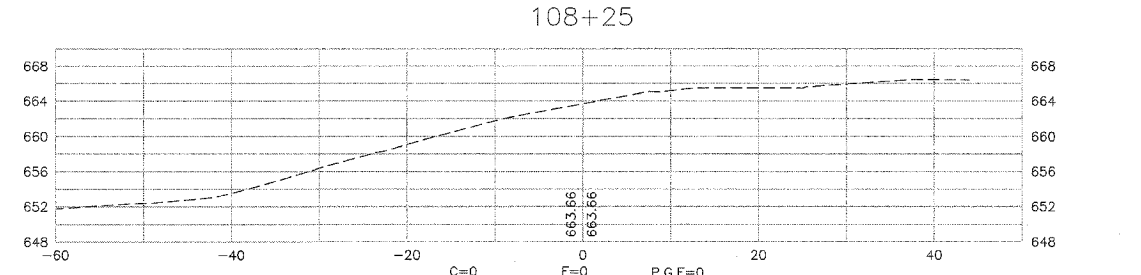
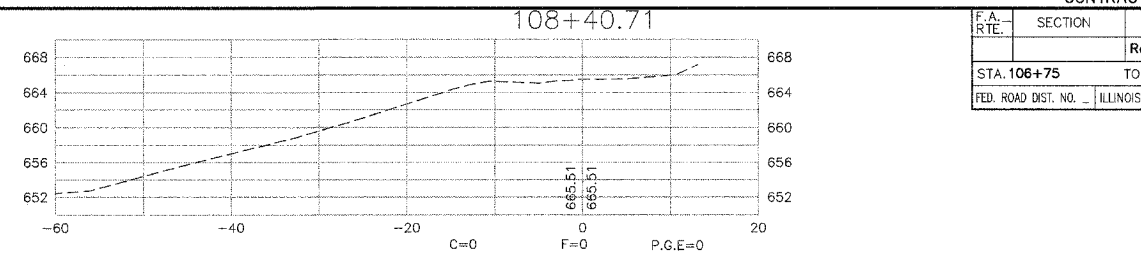
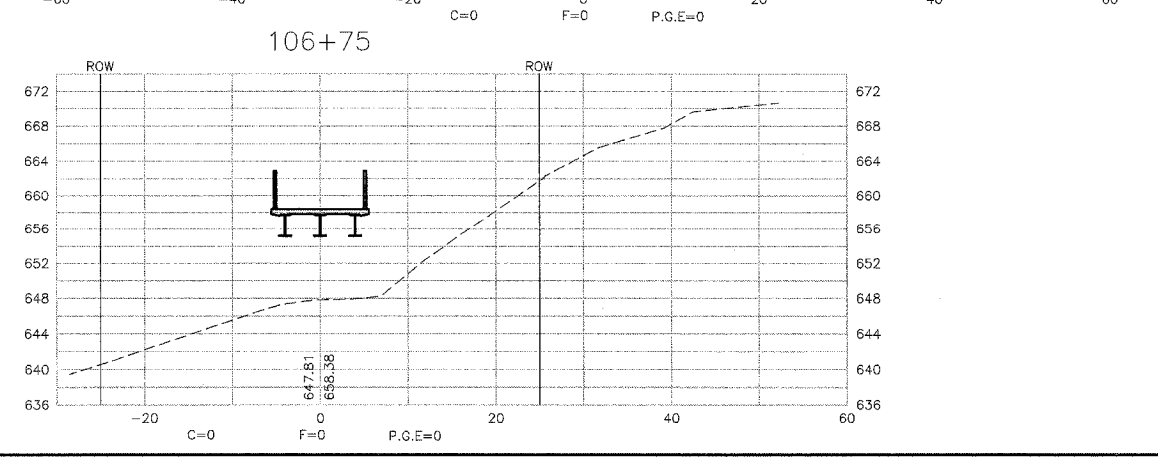
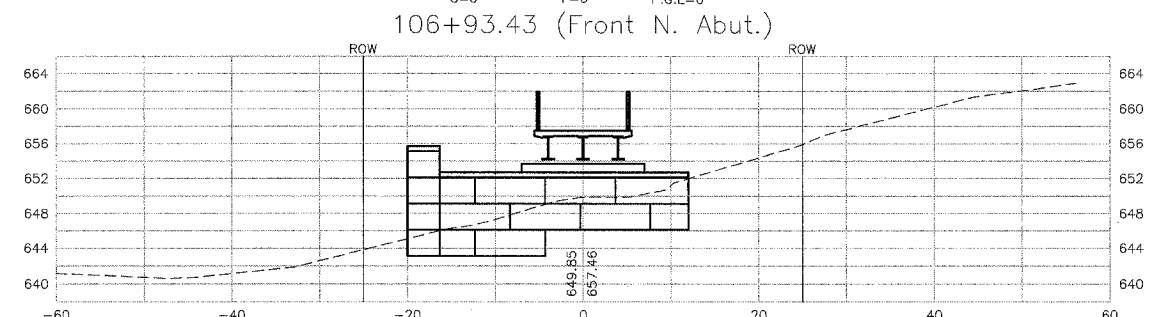
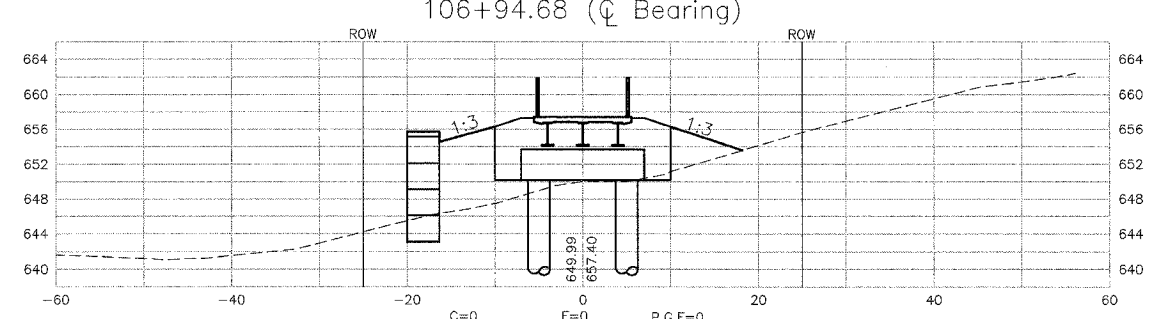
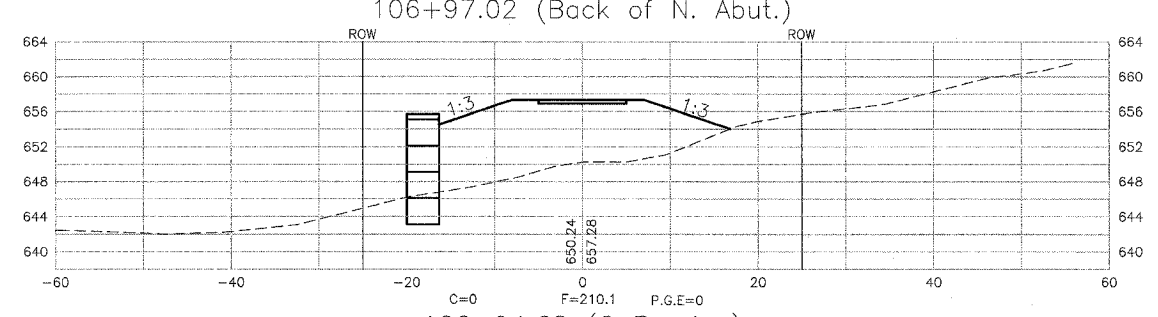
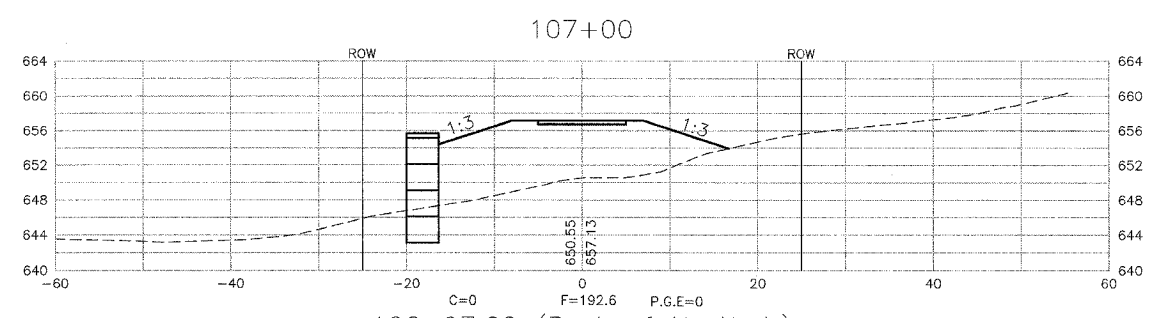


| F.A. RTE.                    | SECTION | COUNTY            | TOTAL SHEETS | SHEET NO. |
|------------------------------|---------|-------------------|--------------|-----------|
|                              |         | Rock Island       | 112          | 109       |
| STA. 106+75                  |         | TO STA. 108+40.71 |              |           |
| FED. ROAD DIST. NO. ILLINOIS |         | FED. AID PROJECT  |              |           |

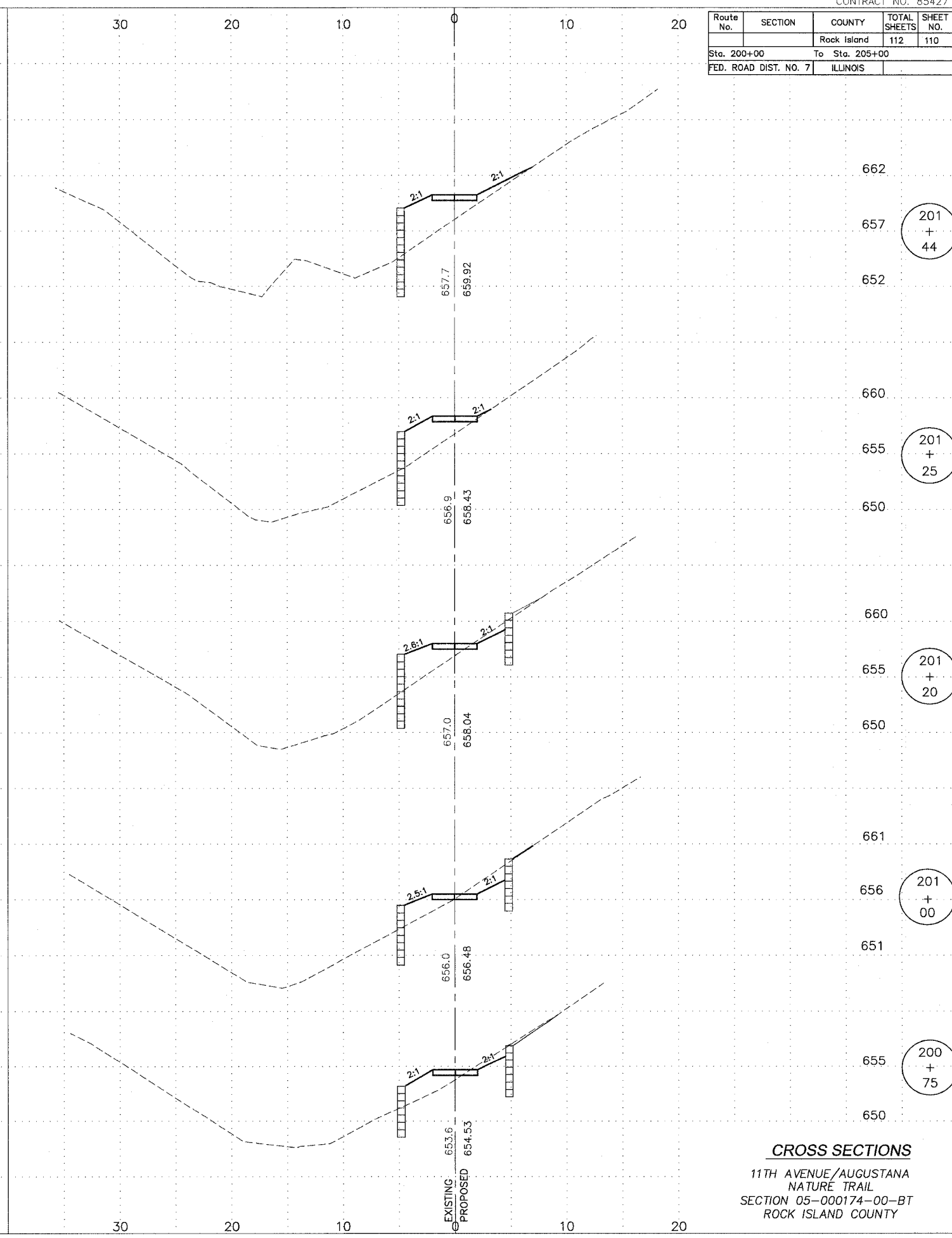
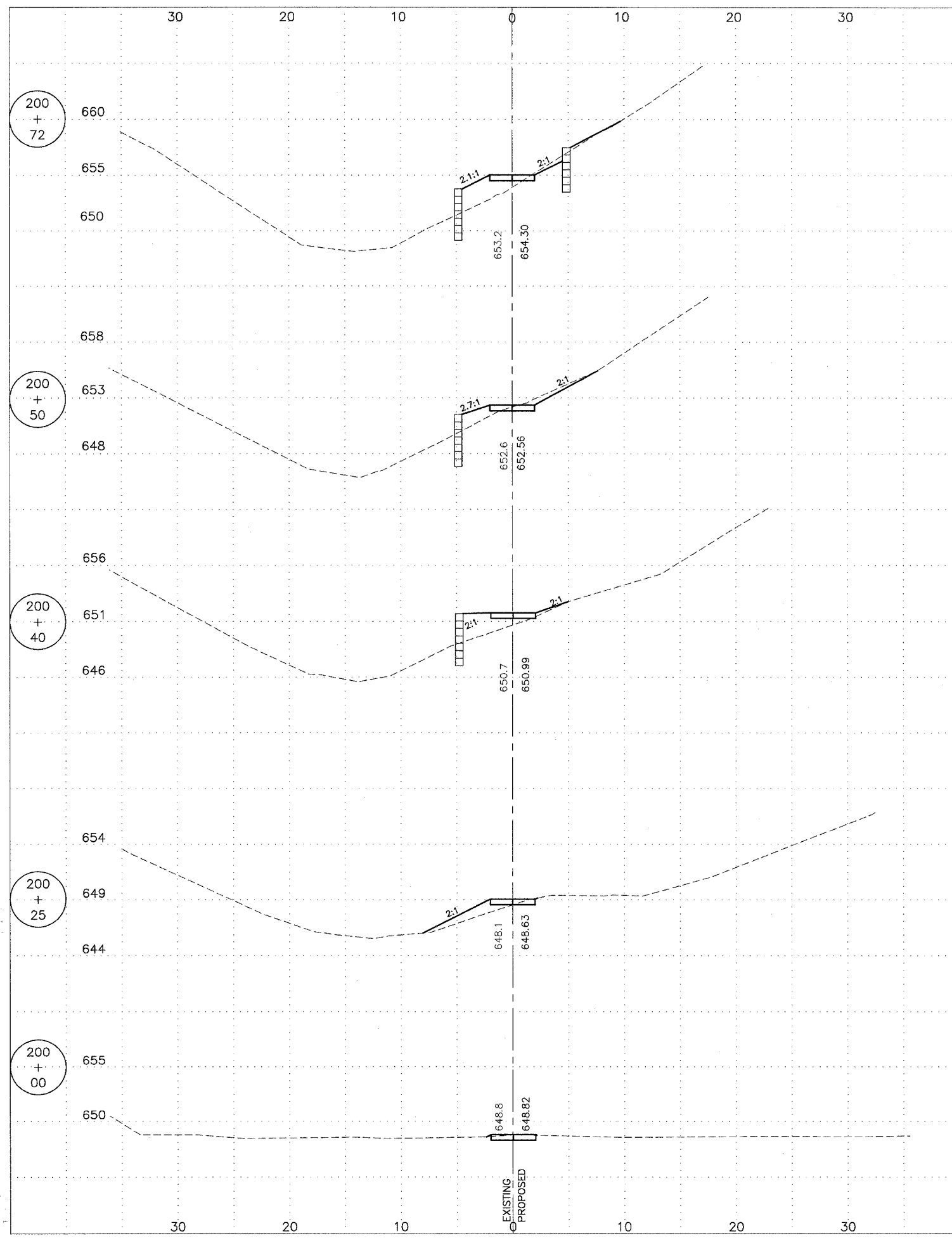
| PLAN     | DATE |
|----------|------|
| SURVEYED |      |
| PLANNED  |      |
| NOTED    |      |
| BY       |      |

| PROFILE  | DATE |
|----------|------|
| SURVEYED |      |
| NOTED    |      |
| BY       |      |

PLOT DATE = \$DATE\$  
 FILE NAME = \$FILE\$  
 PLOT SCALE = \$SCALE\$  
 USER NAME = \$USER\$



| Route No.             | SECTION | COUNTY         | TOTAL SHEETS | SHEET NO. |
|-----------------------|---------|----------------|--------------|-----------|
|                       |         | Rock Island    | 112          | 110       |
| Sta. 200+00           |         | To Sta. 205+00 |              |           |
| FED. ROAD DIST. NO. 7 |         | ILLINOIS       |              |           |

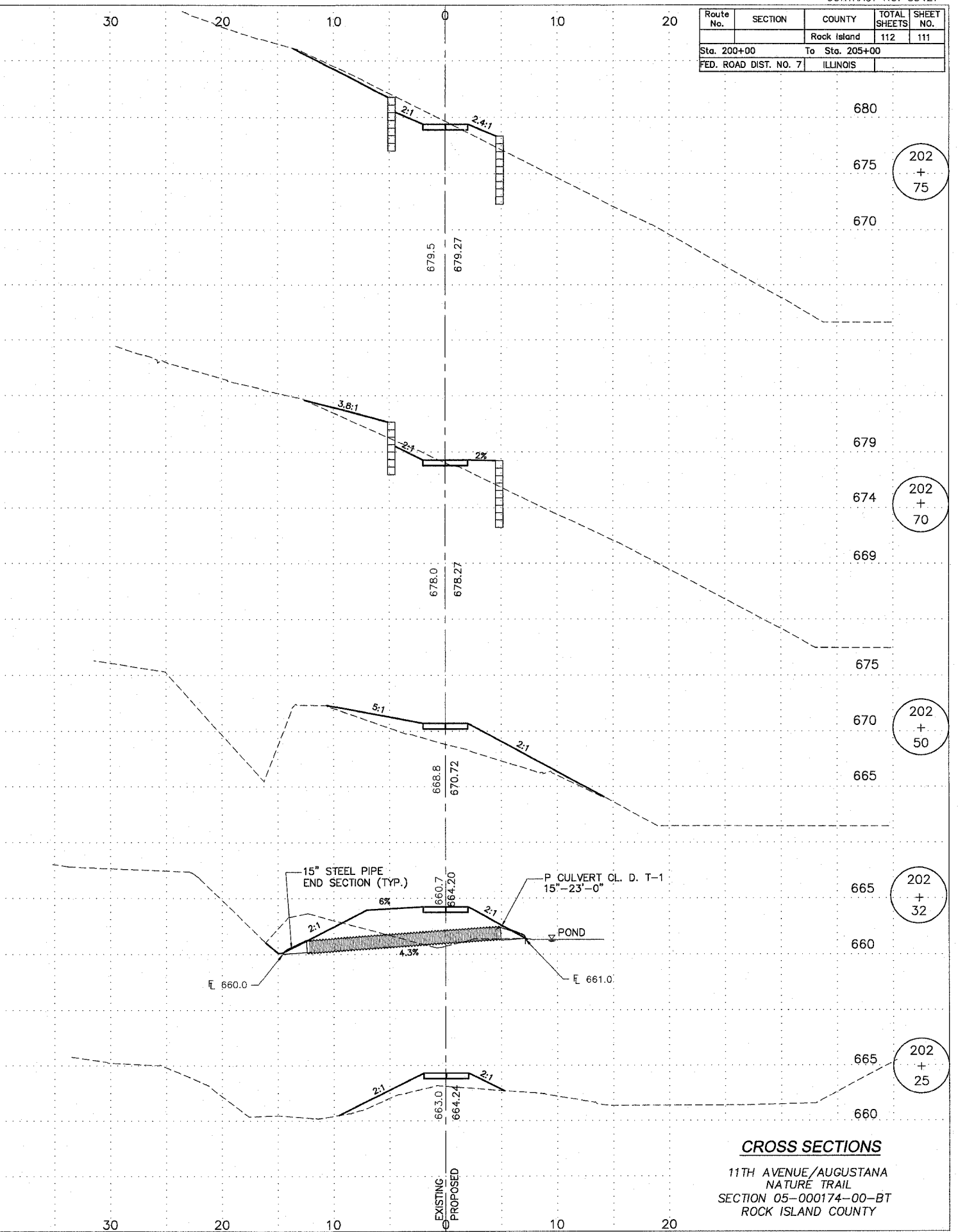
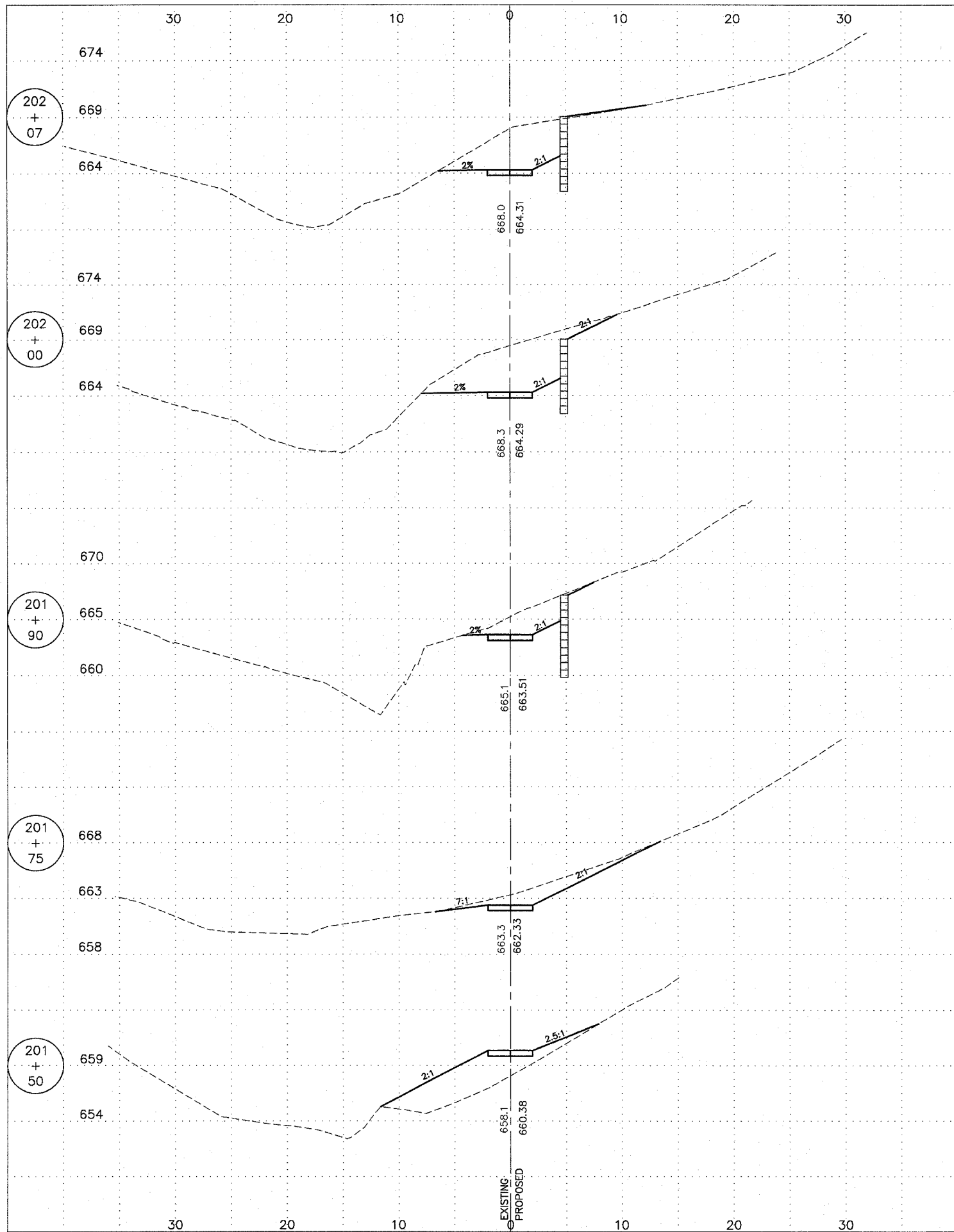


**CROSS SECTIONS**  
 11TH AVENUE/AUGUSTANA  
 NATURE TRAIL  
 SECTION 05-000174-00-BT  
 ROCK ISLAND COUNTY

2025 RELEASE UNDER E.O. 14176

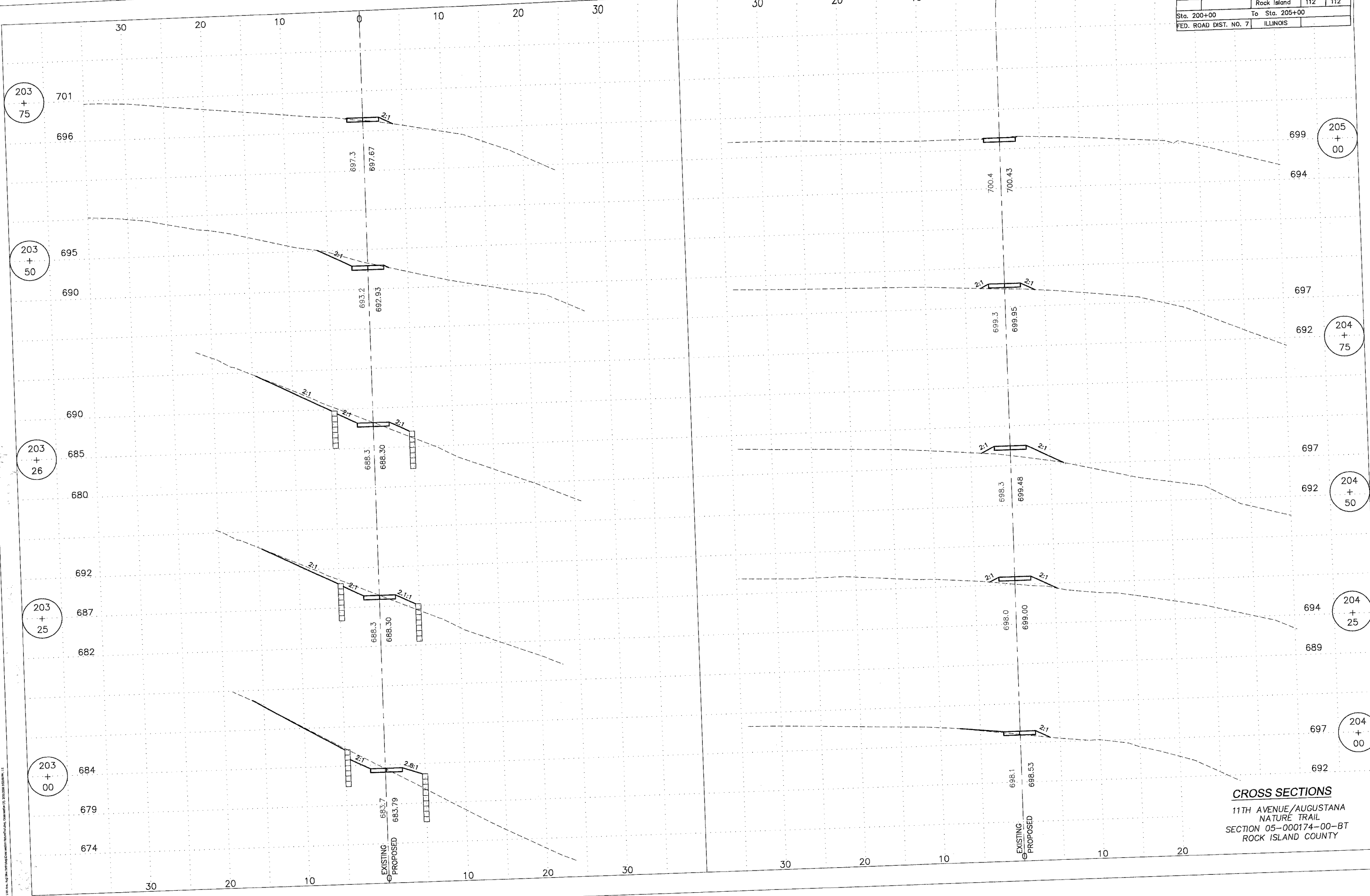


| Route No.             | SECTION        | COUNTY      | TOTAL SHEETS | SHEET NO. |
|-----------------------|----------------|-------------|--------------|-----------|
|                       |                | Rock Island | 112          | 111       |
| Sta. 200+00           | To Sta. 205+00 |             |              |           |
| FED. ROAD DIST. NO. 7 | ILLINOIS       |             |              |           |



**CROSS SECTIONS**  
 11TH AVENUE/AUGUSTANA  
 NATURE TRAIL  
 SECTION 05-000174-00-BT  
 ROCK ISLAND COUNTY

| Route No.             | SECTION        | COUNTY      | TOTAL SHEETS | SHEET NO. |
|-----------------------|----------------|-------------|--------------|-----------|
|                       |                | Rock Island | 112          | 112       |
| Sta. 200+00           | To Sta. 205+00 |             |              |           |
| FED. ROAD DIST. NO. 7 | ILLINOIS       |             |              |           |



**CROSS SECTIONS**  
 11TH AVENUE/AUGUSTANA  
 NATURE TRAIL  
 SECTION 05-000174-00-BT  
 ROCK ISLAND COUNTY

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