

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

# PLANS FOR PROPOSED HIGHWAY BRIDGE PROGRAM

| ROUTE                 | SECTION        | COUNTY             | TOTAL SHEETS        | SHEET NO. |
|-----------------------|----------------|--------------------|---------------------|-----------|
| TR 293                | 96-10120-01-BR | CLAY               | 13                  | 1         |
| FED. ROAD DIST. NO. 7 |                | ILLINOIS           | FEDERAL AID PROJECT |           |
|                       |                | CONTRACT NO. 95514 |                     |           |

## INDEX OF SHEETS

- 1 TITLE SHEET
- 2 SUMMARY OF QUANTITIES, TYPICAL SECTIONS, AND GENERAL NOTES
- 3 PLAN & PROFILE OF ROADWAY
- 4 EROSION CONTROL PLAN
- 5-6 CROSS SECTIONS OF ROADWAY
- 7 CROSS SECTIONS OF RAILROAD
- 8 GENERAL PLAN AND ELEVATION
- 9-10 PRECAST PRESTRESSED CONCRETE DECK BEAM DETAILS
- 11 STEEL RAILING, TYPE S1 (SPECIAL) DETAILS
- 12 ABUTMENT AND WINGWALL DETAILS
- 13 PIER DETAILS

STANDARDS SHOWN BELOW ARE INCLUDED IN THE PLANS AFTER SHEET NO. 13

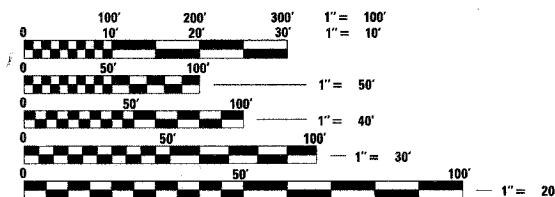
STD. NO. 000001-04 SYMBOLS AND ABBREVIATIONS  
STD. NO. 280001-03 TEMPORARY EROSION CONTROL SYSTEMS  
STD. NO. 515001-02 NAME PLATE FOR BRIDGES  
STD. NO. 630301-04 SHOULDER WIDENING FOR TYPE 1 (SPECIAL) GUARDRAIL TERMINALS  
STD. NO. 631026-03 TRAFFIC BARRIER TERMINAL TYPE S  
STD. NO. 635006-02 REFLECTOR AND TERMINAL MARKER PLACEMENT  
STD. NO. 702001-06 TRAFFIC CONTROL DEVICES  
STD. NO. BLR 21-6 TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES FOR CONSTRUCTION ON RURAL LOCAL HIGHWAYS

SOIL BORINGS (INCLUDED IN PROJECT SPECIFICATIONS)

*Revised 6-5-07*

DESIGN CLASSIFICATION: RURAL LOCAL ROAD

ADT<sub>2007</sub> : 50  
ADT<sub>2027</sub> : 75  
DESIGN SPEED - 30 MPH

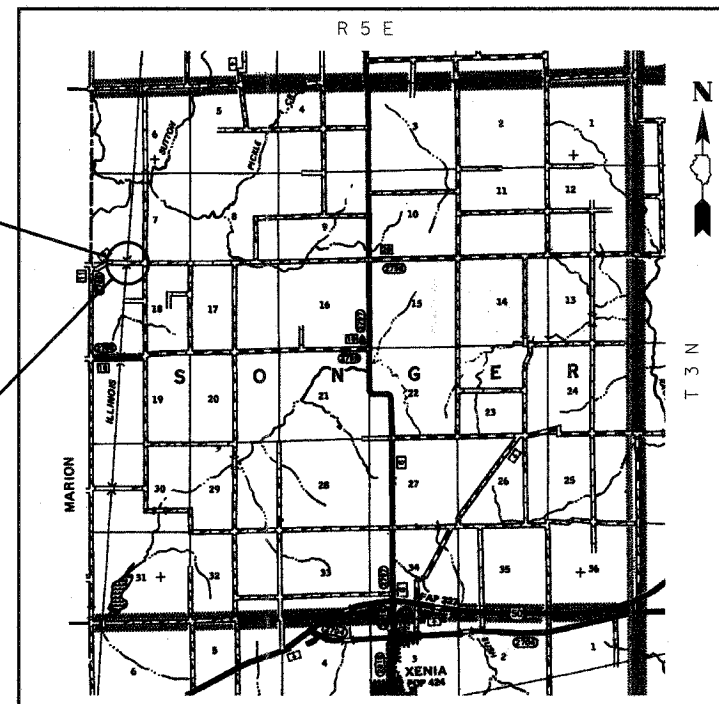


FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES, REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES, IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

J.U.L.I.E.  
JOINT UTILITY LOCATING INFORMATION FOR EXCAVATORS  
1-800-892-0123 Website: <http://www.illinois1call.com>

CONTRACT NUMBER 95514

## TR 293 (REDWOOD LANE) SECTION 96-10120-01-BR OVER CN / IC RAILROAD SONGER ROAD DISTRICT PROJECT NO. BROS-025(57) CLAY COUNTY C-97-052-05

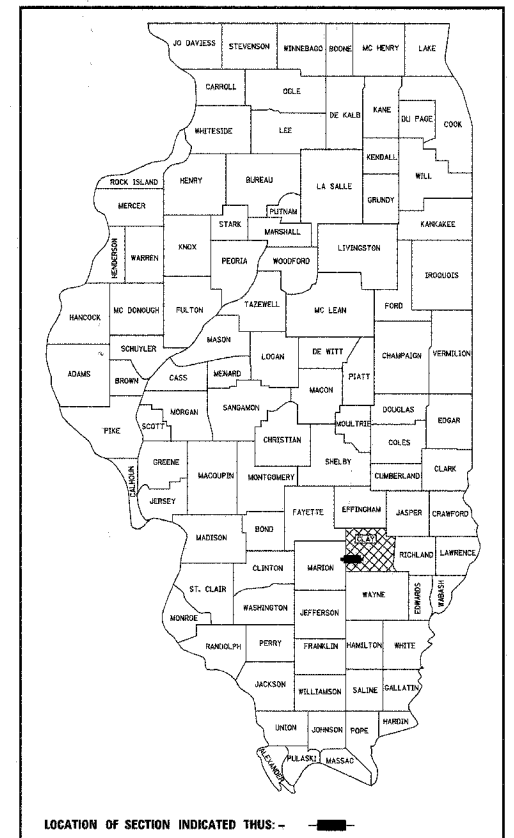


SECTION BEGINS  
STA. 44+25.00

SECTION 96-10120-01-BR INCLUDES THE REMOVAL OF AN EXISTING SEVEN-SPAN TIMBER BRIDGE AND CONSTRUCTION OF A THREE (3) SPAN BRIDGE WITH PPCDB SUPERSTRUCTURE CARRYING TR 293 OVER THE CN/IC RR. 150'-6" BK.-BK. ABUTMENTS 24'-0" OUT TO OUT DECK. 0° SKEW. EXISTING S.N. 013-9913 PROPOSED S.N. 013-9918

SECTION ENDS  
STA. 55+75.00

LOCATION: NEAR THE NW CORNER, NE 1/4, NW 1/4, SECTION 18, T3N, R5E, 3RD P.M.  
NET LENGTH OF SECTION 96-10120-01-BR: 1150.00 FT = 0.218 MI



LOCATION OF SECTION INDICATED THUS: -

APPROVED FOR CLEARANCE ONLY MARCH 2, 2007

JOHN M. HENRIKSEN  
MANAGER OF PUBLIC WORKS  
CANADIAN NATIONAL RAILROAD

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

APPROVED APRIL 4, 2007

CLAY COUNTY, COUNTY ENGINEER

PASSED 4/11, 2007

MURRAY E. KOSTO  
DISTRICT SEVEN ENGINEER OF LOCAL ROADS & STREETS

RELEASING FOR BID BASED ON LIMITED REVIEW 4/11, 2007

CHRISTOPHER M. REED  
DEPUTY DIRECTOR OF HIGHWAYS, REGION FOUR ENGINEER



GARY L. HAHN 4.03.07  
GARY L. HAHN  
CENTRALIA, ILLINOIS  
ILLINOIS LICENSED PROFESSIONAL  
ENGINEER NO. 62-42606  
EXPIRES NOV. 30, 2007

RHUTASEL and ASSOCIATES, INC.  
CONSULTING ENGINEERS • LAND SURVEYORS  
CENTRALIA, ILLINOIS FREEBURG, ILLINOIS  
ILLINOIS DESIGN FIRM LICENSE NO. 184-000287

Sheet  
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of 13  
Job No. 51005

| ROUTE                 | SECTION        | COUNTY             | TOTAL SHEETS     | SHEET NO. |
|-----------------------|----------------|--------------------|------------------|-----------|
| TR 293                | 96-10120-01-BR | CLAY               | 13               | 2         |
| FED. ROAD DIST. NO. 7 |                | ILLINOIS           | FED. AID PROJECT |           |
|                       |                | CONTRACT NO. 95514 |                  |           |

SUMMARY OF QUANTITIES

| Location    |                                                     |       |          | Bridge Sta.<br>44+24.75<br>to Sta. 50+75.25 | Road Sta.<br>44+25.00 - 49+24.75<br>50+75.25 - 55+75.00 |
|-------------|-----------------------------------------------------|-------|----------|---------------------------------------------|---------------------------------------------------------|
|             |                                                     |       |          | Construct.                                  | Type Code                                               |
| Code No.    | Item                                                | Unit  | Quantity | X181-5B                                     | E000                                                    |
| * 20100500  | TREE REMOVAL, ACRES                                 | ACRE  | 0.7      | -                                           | 0.7                                                     |
| * 20200100  | EARTH EXCAVATION                                    | CU YD | 461      | -                                           | 461                                                     |
| * 20400800  | FURNISHED EXCAVATION                                | CU YD | 16177    | -                                           | 16177                                                   |
| * 20700110  | POROUS GRANULAR EMBANKMENT                          | TON   | 34       | 34                                          | -                                                       |
| * 25001000  | SEEDING, CLASS 2 (SPECIAL)                          | ACRE  | 1.9      | -                                           | 1.9                                                     |
| 28000250    | TEMPORARY EROSION CONTROL SEEDING                   | POUND | 1220     | -                                           | 1220                                                    |
| 28000300    | TEMPORARY DITCH CHECKS                              | EACH  | 6        | -                                           | 6                                                       |
| 28000400    | PERIMETER EROSION BARRIER                           | FOOT  | 2710     | -                                           | 2710                                                    |
| 28000500    | INLET AND PIPE PROTECTION                           | EACH  | 5        | -                                           | 5                                                       |
| * 28100807  | STONE DUMPED RIPRAP, CLASS A4                       | TON   | 345      | 345                                         | -                                                       |
| * 40200800  | AGGREGATE SURFACE COURSE, TYPE B                    | TON   | 1175     | -                                           | 1175                                                    |
| * 50100100  | REMOVAL OF EXISTING STRUCTURES                      | EACH  | 1        | 1                                           | -                                                       |
| 50200100    | STRUCTURE EXCAVATION                                | CU YD | 150      | 150                                         | -                                                       |
| 50300225    | CONCRETE STRUCTURES                                 | CU YD | 152.6    | 152.6                                       | -                                                       |
| 50300280    | CONCRETE ENCASEMENT                                 | CU YD | 2.8      | 2.8                                         | -                                                       |
| * 50400505  | PRECAST PRESTRESSED CONCRETE DECK BEAMS (27" DEPTH) | SQ FT | 3576     | 3576                                        | -                                                       |
| 50800105    | REINFORCEMENT BARS                                  | POUND | 14120    | 14120                                       | -                                                       |
| * 50901305  | STEEL RAILING, TYPE S1 (SPECIAL)                    | FOOT  | 302      | 302                                         | -                                                       |
| 51201600    | FURNISHING STEEL PILES HP12X53                      | FOOT  | 361      | 361                                         | -                                                       |
| 51201800    | FURNISHING STEEL PILES HP14X73                      | FOOT  | 464      | 464                                         | -                                                       |
| 51202305    | DRIVING PILES                                       | FOOT  | 825      | 825                                         | -                                                       |
| ** 51203600 | TEST PILE-STEEL HP12X53                             | EACH  | 1        | 1                                           | -                                                       |
| ** 51203800 | TEST PILE STEEL HP14X73                             | EACH  | 2        | 2                                           | -                                                       |
| 51500100    | NAME PLATES                                         | EACH  | 1        | 1                                           | -                                                       |
| 542A0223    | PIPE CULVERTS, CLASS A, TYPE 1 18"                  | FOOT  | 148      | -                                           | 148                                                     |
| 542A0235    | PIPE CULVERTS, CLASS A, TYPE 1 30"                  | FOOT  | 44       | -                                           | 44                                                      |
| Δ 63100075  | TRAFFIC BARRIER TERMINAL, TYPE 5A                   | EACH  | 4        | -                                           | 4                                                       |
| Δ 63100167  | TRAFFIC BARRIER TERMINAL TYPE 1, SPECIAL (TANGENT)  | EACH  | 4        | -                                           | 4                                                       |
| 67100100    | MOBILIZATION                                        | L SUM | 1        | -                                           | 1                                                       |
| 78201000    | TERMINAL MARKER - DIRECT APPLIED                    | EACH  | 4        | -                                           | 4                                                       |
| * Z0048665  | RAILROAD PROTECTIVE LIABILITY INSURANCE             | L SUM | 1        | 1                                           | -                                                       |

- \* SEE SPECIAL PROVISIONS  
\*\* THE CONTRACTOR SHALL DRIVE ONE (1) STEEL HP12X53 TEST PILE IN A PRODUCTION LOCATION AT THE WEST ABUTMENT AND ONE (1) STEEL HP14X73 TEST PILE AT EACH PIER AS DIRECTED BY THE ENGINEER BEFORE ORDERING THE REMAINDER OF THE PILES.

Δ SPECIALTY ITEMS

Revised 6-5-07

GENERAL NOTES

CENTERLINE PROFILES REFER TO THE FINISHED ROADWAY SURFACE.

CONSTRUCTION LIMITS REFER TO THE TOP OF THE BACKSLOPE OR THE TOE OF THE FILLSLOPE.

ALL EXISTING DRAINAGE STRUCTURES SHALL BE REMOVED, UNLESS OTHERWISE NOTED, BY THE CONTRACTOR AND SUCH REMOVAL SHALL BE CONSIDERED AS INCLUDED IN TO THE COST OF EARTH EXCAVATION AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED. ANY EXISTING DRAINAGE STRUCTURE DEEMED USEABLE BY THE COUNTY, SHALL BE REMOVED AND STORED ALONG THE R.O.W. FOR REMOVAL BY COUNTY FORCES.

THE PROFILE GRADE OF ALL ENTRANCES SHALL EXTEND FROM THE SHOULDER BREAK TO THE R.O.W. LINE.

ANY REFERENCE TO A STANDARD IN THESE PLANS SHALL BE INTERPRETED TO MEAN THE EDITION AS INDICATED BY THE SUB-NUMBER LISTED IN THE INDEX OF SHEETS OR THE COPY OF THE STANDARD INCLUDED IN THE SPECIAL PROVISIONS.

EXISTING UTILITIES SHOWN ARE LOCATED FROM SURFACE OBSERVATIONS OR INFORMATION PROVIDED BY THE RESPECTIVE UTILITIES AND MUST BE CONSIDERED APPROXIMATE. THERE MAY BE OTHERS, THE EXACT LOCATION OF WHICH ARE UNKNOWN AND NOT SHOWN. THE CONTRACTOR WILL BE RESPONSIBLE FOR NOTIFYING THE RESPECTIVE UTILITIES BEFORE WORK IS BEGUN. FIELD MARKING OF UNDERGROUND UTILITIES MAY BE OBTAINED BY PROVIDING A MINIMUM OF 48 HOURS ADVANCE NOTICE THROUGH THE J.U.L.I.E. SYSTEM BY CALLING 1-800-892-0123, OR BY DIRECT CONTACT WITH NON-MEMBERS OF J.U.L.I.E. SEE SPECIAL PROVISIONS FOR CONTACT INFORMATION OF UTILITIES.

THE NOMINAL THICKNESS FOR AGGREGATE SURFACE COURSE IS SHOWN ON THE TYPICAL SECTIONS, STANDARDS, SCHEDULES, OR SPECIAL DETAILS. THE CONSTRUCTED THICKNESS OF THE ABOVE ITEM SHALL NOT BE LESS THAN 90 PERCENT OF THE NOMINAL THICKNESS AT ANY LOCATION.

FACTORS USED FOR QUANTITY CALCULATIONS ARE AS FOLLOWS:

STONE DUMPED RIPRAP 130 POUNDS/CU. FT.  
ALL AGGREGATES 2.1 TONS/CU. YD.

UTILITIES

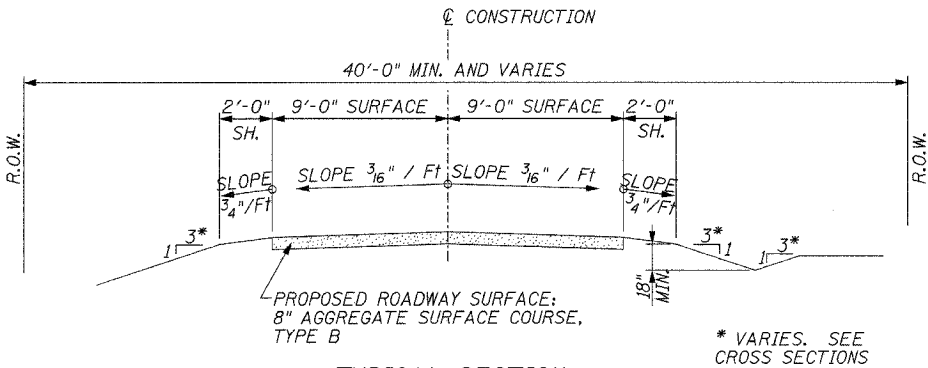
ELECTRIC  
CLAY ELECTRIC CO-OP  
PH. (618) 662-2171

TELEPHONE  
WABASH TELEPHONE  
PH. (618) 665-3311

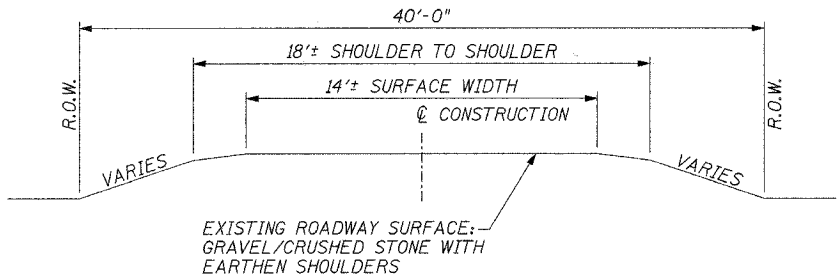
OTHER  
CANADIAN NATIONAL RAILROAD  
MR. HARDY TAYLOR/MATTOON, IL.  
PH. (217) 238-2443

SUMMARY OF QUANTITIES, TYPICAL  
SECTIONS, AND GENERAL NOTES  
TR 293 BRIDGE OVER  
CN / IC RAILROAD  
SECTION 96-10120-01-BR  
CLAY COUNTY, ILLINOIS

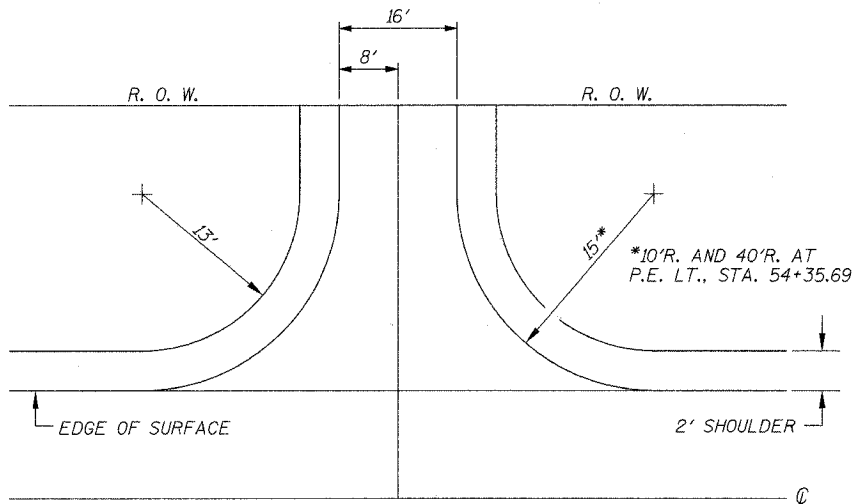
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TYPICAL SECTION  
PROPOSED APPROACH ROADWAY



TYPICAL SECTION  
EXISTING APPROACH ROADWAY



AGGREGATE SURFACE COURSE, TYPE B 6" DEPTH  
F.E. LT., STA. 45+00 - 20 TON  
F.E. RT., STA. 45+00 - 36 TON  
P.E. LT., STA. 54+35.69 - 83 TON  
F.E. RT., STA. 55+20 - 19 TON

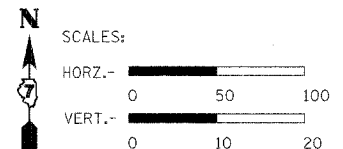
QUANTITIES INCLUDED IN SUMMARY OF QUANTITIES  
FOR AGGREGATE SURFACE COURSE, TYPE B

TYPICAL ENTRANCES

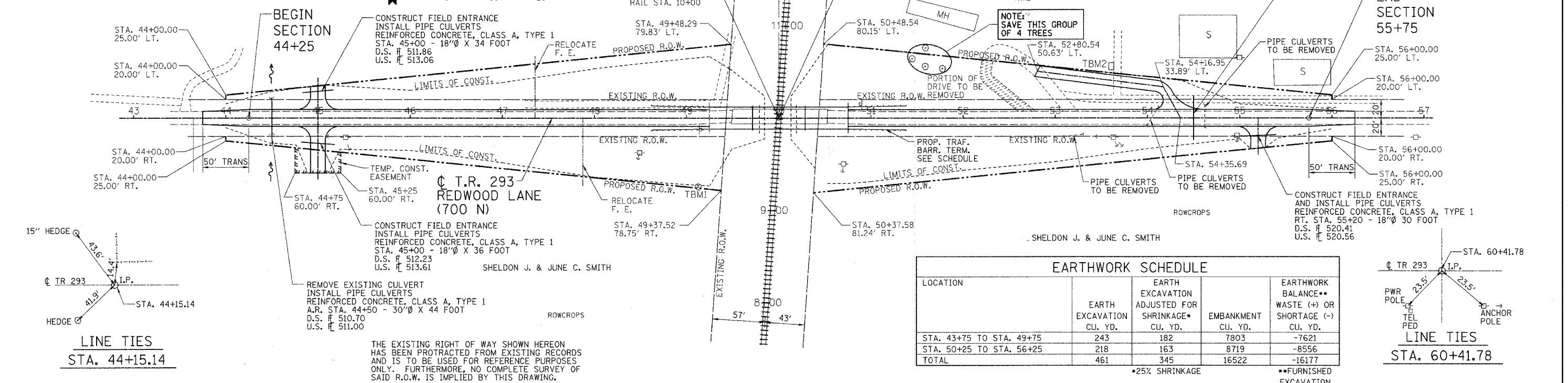
| TRAFFIC BARRIER TERMINALS                |                                      |                        |
|------------------------------------------|--------------------------------------|------------------------|
| LOCATION                                 | T.B.T. TY. 1<br>SPEC. (TAN.)<br>EACH | T.B.T. TYPE 5A<br>EACH |
| LT. & RT. STA. 48+61.25 TO STA. 49+11.25 | 2                                    |                        |
| LT. & RT. STA. 49+11.25 TO STA. 49+24.50 |                                      | 2                      |
| LT. & RT. STA. 50+75.50 TO STA. 50+88.75 |                                      | 2                      |
| LT. & RT. STA. 50+88.75 TO STA. 51+38.75 | 2                                    |                        |
| TOTALS                                   | 4                                    | 4                      |

THE EARTH EXCAVATION AND FURNISHED EXCAVATION REQUIRED TO CONSTRUCT THE SHOULDER WIDENING FOR THE INSTALLATION OF THE TRAFFIC BARRIER TERMINALS IS INCLUDED IN THE RESPECTIVE PAY ITEMS.

Revised 6-5-07

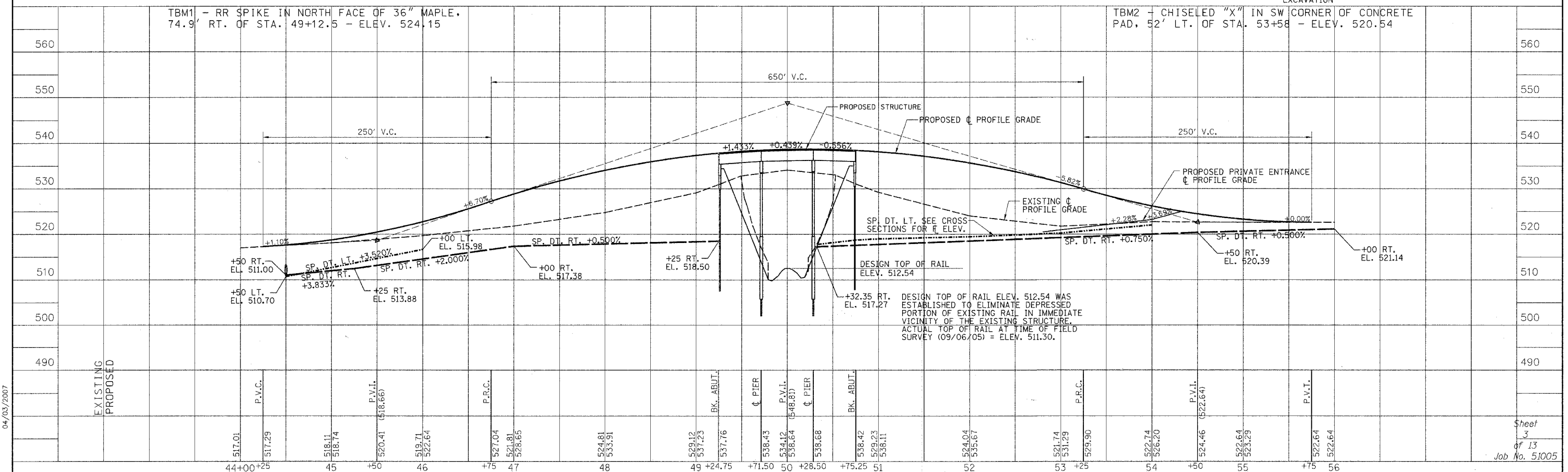


SHELDON J. & JUNE C. SMITH



| EARTHWORK SCHEDULE       |                             |                                                           |                       |                                                                   |
|--------------------------|-----------------------------|-----------------------------------------------------------|-----------------------|-------------------------------------------------------------------|
| LOCATION                 | EARTH EXCAVATION<br>CU. YD. | EARTH EXCAVATION<br>ADJUSTED FOR<br>SHRINKAGE*<br>CU. YD. | EMBANKMENT<br>CU. YD. | EARTHWORK<br>BALANCE**<br>WASTE (+) OR<br>SHORTAGE (-)<br>CU. YD. |
| STA. 43+75 TO STA. 49+75 | 243                         | 182                                                       | 7803                  | -7621                                                             |
| STA. 50+25 TO STA. 56+25 | 218                         | 163                                                       | 8719                  | -8556                                                             |
| TOTAL                    | 461                         | 345                                                       | 16522                 | -16177                                                            |

\*25% SHRINKAGE      \*\*FURNISHED EXCAVATION



04/03/2007

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of 13  
Job No. 51005

TBM #1 - RR Spike in north face of 36" Maple,  
74.9' Rt. of Sta. 49+12.5 - Elev. 524.15

TBM #2 - Chiseled "X" in SW corner of concrete  
pad, 52' Lt. of Sta. 53+58 - Elev. 520.54

Traffic Barrier Terminals,  
Type 1, Special (Tangent)  
& 5A Typ. All 4 Corners

Porous Granular  
Embankment

Concrete  
Encasement

HP 12x53

Stone Dumped Riprap,  
Class A4, 16" Min. Thickness  
(Typ.)

Pay limits of Structure  
Excavation

SPAN 1

WEST ABUT.

PIER 1

151'-0" End to End of Railing

Concrete curb  
Span 2 only  
See Sheet 10.

Steel Railing,  
Type S1 (Special)  
See Sheet 11  
for details

Traffic Barrier Terminals,  
Type 1, Special (Tangent)  
& 5A Typ. All 4 Corners

Porous Granular  
Embankment

Concrete  
Encasement

HP 12x53

Stone Dumped Riprap,  
Class A4, 16" Min. Thickness  
(Typ.)

Pay limits of Structure  
Excavation

SPAN 2

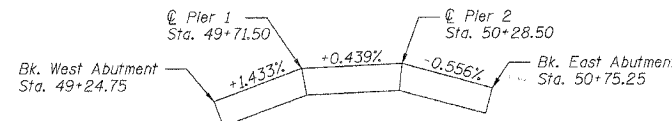
PIER 2

EAST ABUT.

### ELEVATION

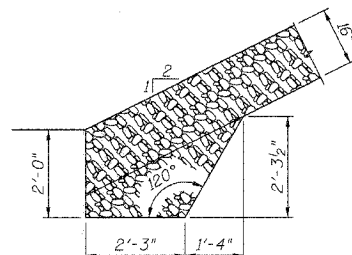
Design Top of Rail Elev. 512.54 was established  
to eliminate a depressed portion of the existing  
rail in the immediate vicinity of the existing  
structure. Actual top of rail at time of  
field survey (09/06/05) = Elev. 511.30

Final ditch grades to be established in the field  
by Illinois Central Railroad Engineers. Elevations  
shown are standard for Illinois Central Railroad  
road bed cross section Drawing No. 185.



### GRADE ON STRUCTURE

### RIPRAP ANCHOR DETAIL



Traffic Barrier Terminals,  
Type 1, Special (Tangent)  
& 5A Typ. All 4 Corners

Location of  
Test Pile

Soil Boring 2  
@ Sta. 49+25.2

Bk. W. Abut.  
Sta. 49+24.75  
Elev. 537.76

© Brg. W. Abut.  
Sta. 49+26.00

© Pier 1  
Sta. 49+71.50  
Elev. 538.43

23'-4" Fg. to Fg.  
= 24'-0"

8'-27" x 36" PPCCB

Location of  
Name Plate

1'-3" 45'-6" © Brg. to © Pier

57'-0" © to © Piers

45'-6" © Pier to © Brg.

150'-6" Bk to Bk Abutments

### PLAN

### SEISMIC DATA

Seismic Performance Category (SPC) = A  
Bedrock Acceleration Coefficient (A) = 0.09g  
Site Coefficient (S) = 1.0

### DESIGN SPECIFICATIONS

AASHTO - 2002 17th Edition

### LOADING HS 20-44

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

### DESIGN STRESSES

#### FIELD UNITS

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

#### PRECAST PRESTRESSED UNITS

$f'_c = 5,000$  psi  
 $f'_{ci} = 4,000$  psi  
 $f'_s = 270,000$  psi ( $\frac{1}{2}$ "  $\phi$  strands)  
 $f'_{si} = 189,000$  psi ( $\frac{1}{2}$ "  $\phi$  strands)

I certify that to the best of my information, knowledge, and belief,  
this bridge is structurally adequate for the design loading shown on  
plans. The design is an economical one for the structure and  
complies with requirements of the current AASHTO Standard  
Specifications for Highway Bridges.



GARY L. HAHN  
CENTRALIA, ILLINOIS  
ILLINOIS LICENSED STRUCTURAL  
ENGINEER NO. 81-4853  
EXPIRES NOV. 30, 2008

Existing Structures: Seven (7) span bridge with timber  
deck on timber pile bent piers and abutments.  
104' long x 16' wide. To be removed.  
See Special Provisions.

| ROUTE                 | SECTION        | COUNTY              | TOTAL SHEETS | SHEET NO. |
|-----------------------|----------------|---------------------|--------------|-----------|
| TR 293                | 96-10120-01-BR | CLAY                | 13           | 8         |
| FED. ROAD DIST. NO. 7 |                | ILLINOIS            |              |           |
|                       |                | FEDERAL AID PROJECT |              |           |
|                       |                | CONTRACT NO. 95514  |              |           |

### BILL OF MATERIALS (BRIDGE ONLY)

| ITEM                                                | UNIT  | SUB   | SUPER | TOTAL |
|-----------------------------------------------------|-------|-------|-------|-------|
| POROUS GRANULAR EMBANKMENT                          | TON   | 34    | -     | 34    |
| STONE DUMPED RIPRAP, CLASS A4                       | TON   | 345   | -     | 345   |
| REMOVAL OF EXISTING STRUCTURES                      | EACH  | -     | 1     | 1     |
| STRUCTURE EXCAVATION                                | CU YD | 150   | -     | 150   |
| CONCRETE STRUCTURES                                 | CU YD | 152.6 | -     | 152.6 |
| CONCRETE ENCASUREMENT                               | CU YD | 2.8   | -     | 2.8   |
| PRECAST PRESTRESSED CONCRETE DECK BEAMS (27" DEPTH) | SQ FT | -     | 3576  | 3576  |
| REINFORCEMENT BARS                                  | POUND | 14120 | -     | 14120 |
| STEEL RAILING, TYPE S1 (SPECIAL)                    | FOOT  | -     | 302   | 302   |
| FURNISHING STEEL PILES HP12X53                      | FOOT  | 361   | -     | 361   |
| FURNISHING STEEL PILES HP14X73                      | FOOT  | 464   | -     | 464   |
| DRIVING PILES                                       | FOOT  | 825   | -     | 825   |
| TEST PILE STEEL HP12X53                             | EACH  | 1     | -     | 1     |
| TEST PILE STEEL HP14X73                             | EACH  | 2     | -     | 2     |
| NAME PLATES                                         | EACH  | 1     | -     | 1     |
| RAILROAD PROTECTIVE LIABILITY INSURANCE             | L SUM | -     | 1     | 1     |

### GENERAL NOTES

See Specifications for Soil Borings.

See Section 502 of the Standard Specifications for Structural Excavation.

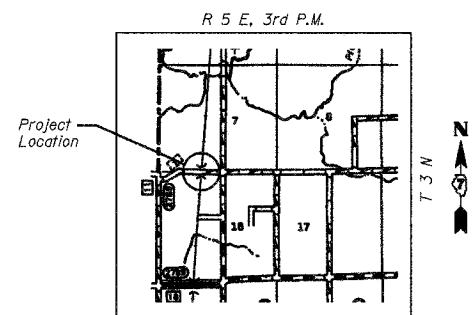
The Contractor shall drive one (1) Steel HP12X53 Test Pile in a production location  
at the West Abutment and one (1) Steel HP14X73 Test Pile in a production location  
at each Pier as directed by the Engineer before ordering the remainder of the piles.

The Contractor is hereby advised that very stiff soils will be encountered  
prior to the location of anticipated refusal. See the Soil Borings for further  
information.

Reinforcement Bars shall conform to AASHTO M-31 or M-322, Grade 60.

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

Do not scale these drawings.



### LOCATION SKETCH

CN / IC RAILROAD  
BUILT 200 BY  
CLAY COUNTY  
SEC. 96-10120-01-BR  
LOADING HS-20  
STRUCTURE NO. 013-9918

### NAME PLATE

(See State Standard 515001 for details)

### GENERAL PLAN AND ELEVATION

TR 293 BRIDGE OVER  
CN / IC RAILROAD  
SECTION 96-10120-01-BR  
CLAY COUNTY, ILLINOIS

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8  
of 13  
Job No. 51005

04/03/2007

RHUTASEL and ASSOCIATES, INC.  
CONSULTING ENGINEERS • LAND SURVEYORS  
CENTRALIA, ILLINOIS • FREEBURG, ILLINOIS