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11-21-14 LETTING ITEM 051 STATE OF ILLINOIS

| F.A.S. RTE. | SECTION | COUNTY   | TOTAL SHEETS       | SHEET NO. |
|-------------|---------|----------|--------------------|-----------|
| 1324        | 38 BR   | IROQUOIS | 35                 | 1         |
|             |         | ILLINOIS | CONTRACT NO. 66A72 |           |

DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS

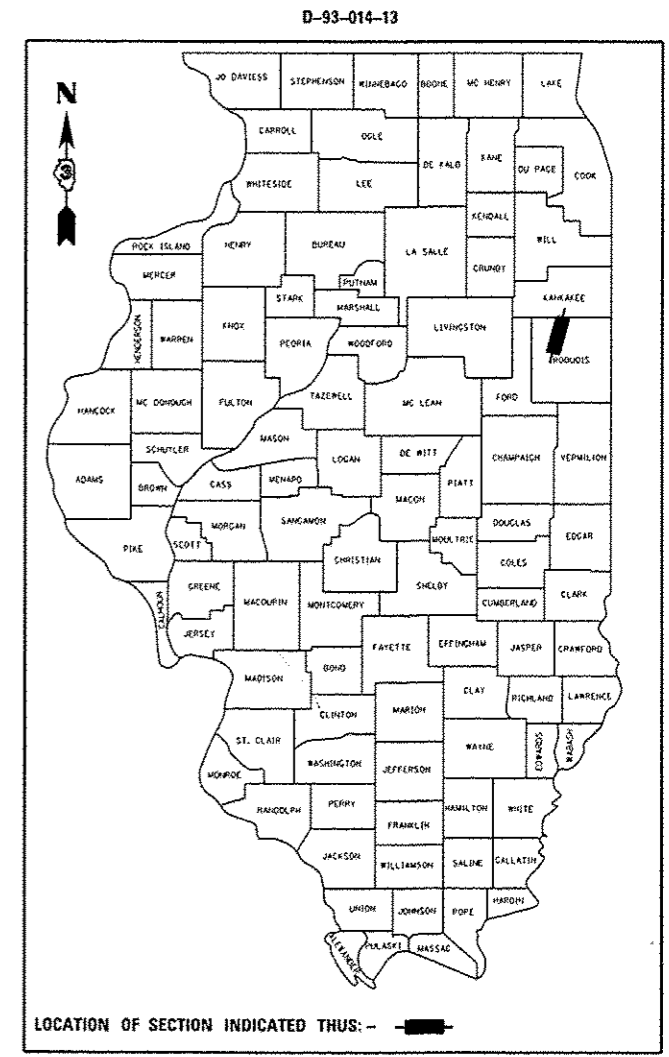
# PROPOSED HIGHWAY PLANS

FAS ROUTE 1324 (OR 45) (US 45)  
SECTION 38 BR  
PROJECT: ACRS-1324(104)  
SUPERSTRUCTURE REPLACEMENT  
IROQUOIS COUNTY

C-93-013-13

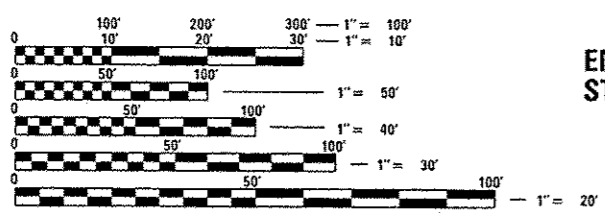
LIST OF ILLINOIS DOT HIGHWAY STANDARDS

|           |  |
|-----------|--|
| BLR 21-9  | TYPICAL APPLICATIONS OF TRAFFIC CONTROL DEVICES FOR CONSTRUCTION ON RURAL LOCAL HIGHWAYS           |
| BLR 22-7  | TYPICAL APP OF T.C.D. RURAL LOCAL HIGHWAY (2-LANE 2-WAY RURAL TRAF.) (ROAD CLOSED TO THRU TRAFFIC) |
| 000001-06 | STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS   |
| 001001-02 | AREAS OF REINFORCEMENT BARS  |
| 001006    | DECIMAL OF AN INCH AND OF A FOOT   |
| 280001-07 | TEMPORARY EROSION CONTROL SYSTEMS  |
| 420401-10 | BRIDGE APPROACH PAVEMENT CONNECTOR   |
| 515001-03 | NAME PLATE FOR BRIDGES   |
| 601101-01 | CONCRETE HEADWALL FOR PIPE DRAIN   |
| 630001-10 | STEEL PLATE BEAM GUARDRAIL   |
| 631032-08 | TRAFFIC BARRIER TERMINAL, TYPE 6A  |
| 635006-03 | REFLECTOR AND TERMINAL MARKER PLACEMENT  |
| 635011-02 | REFLECTOR MARKER AND MOUNTING DETAILS  |
| 701001-02 | OFF-ROAD OPERATIONS 2L, 2W, MORE THAN 15' (4.5 m) AWAY   |
| 701006-05 | OFF-ROAD OPERATIONS 2L, 2W, 15' (4.5 m) TO 24" (600 mm) FROM PAVEMENT EDGE                         |
| 701306-03 | LANE CLOSURE, 2L, 2W, SLOW MOVING OPERATIONS DAY ONLY, FOR SPEEDS ≥ 45 MPH                         |
| 701311-03 | LANE CLOSURE, 2L, 2W, MOVING OPERATIONS - DAY ONLY   |
| 701901-03 | TRAFFIC CONTROL DEVICES  |
| 780001-04 | TYPICAL PAVEMENT MARKINGS  |
| 781001-03 | TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS  |



LOCATION OF SECTION INDICATED THIS: -

MAJOR COLLECTOR  
2013 ADT = 2400  
P.V. = 96.7%  
S.U. = 2.5%  
M.U. = 0.8%



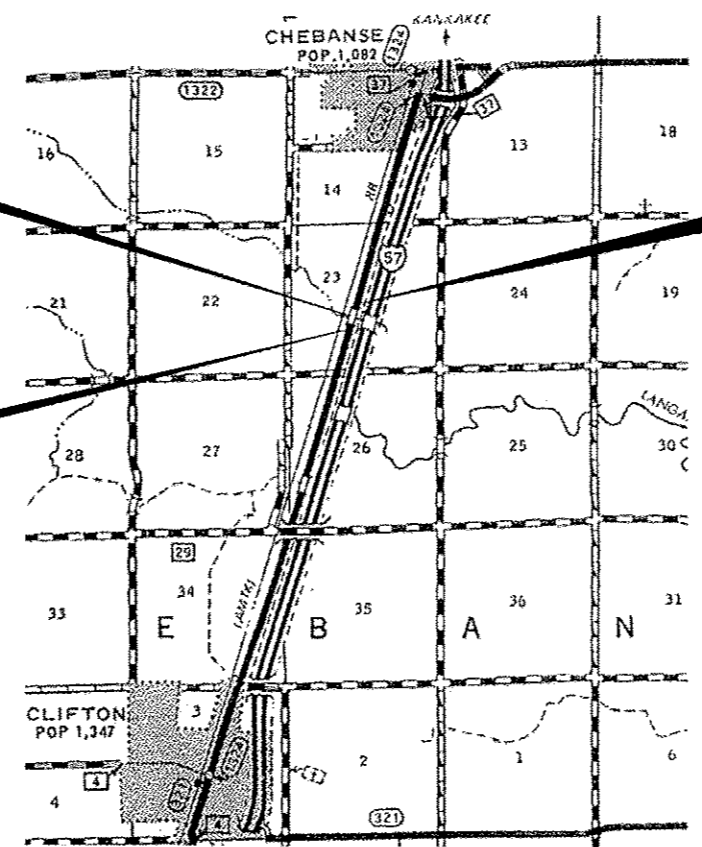
FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

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

STA 500 + 55.00  
SN 038-0184  
SUPERSTRUCTURE REMOVAL  
AND REPLACEMENT

END IMPROVEMENT  
STA 502 + 00

BEGIN IMPROVEMENT  
STA 499 + 00.00



GROSS LENGTH = 300.00 FT. = 0.057 MILE  
NET LENGTH = 300.00 FT. = 0.057 MILE

PROJECT ENGINEER: JOE KANNEL, PE  
UNIT CHIEF: MICHELE LINDEMAN, PE

CONTRACT NO. 66A72

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS

SUBMITTED Aug. 14 2014  
Paul Coete  
DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER

Oct 17 2014  
John D. Baramzelli P.E.  
ENGINEER OF DESIGN AND ENVIRONMENT

Oct 17 2014  
Omer Osman P.E.  
DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

PRINTED BY THE AUTHORITY  
OF THE STATE OF ILLINOIS

GENERAL NOTES

COMMITMENTS:

THE THICKNESS OF HMA SHOWN ON THE PLANS IS THE NOMINAL THICKNESS. DEVIATIONS FROM THE NOMINAL THICKNESS WILL BE PERMITTED WHEN SUCH DEVIATIONS OCCUR DUE TO IRREGULARITIES IN THE EXISTING SURFACE OR BASE ON WHICH THE HMA IS PLACED.

BEFORE ORDERING PIPE CULVERTS OR PIPE DRAINS, THE CONTRACTOR SHALL CONSULT THE ENGINEER FOR EXACT LENGTHS.

THE ENGINEER WILL BE THE SOLE JUDGE CONCERNING CURING TIME FOR THE VARIOUS HMA LIFTS.

FOR STABILIZATION, ALL TYPE III BARRICADES WILL REQUIRE A MINIMUM OF FOUR SAND BAGS PER BARRICADE.

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 REFERRING TO U.S.G.S. MEAN SEA LEVEL DATUM.

ANY REFERENCE TO A STANDARD IN THESE PLANS SHALL BE INTERPRETED TO MEAN THE EDITION AS INDICATED BY THE SUBNUMBER SHOWN IN THE LIST OF STANDARDS OR THE COPY INCLUDED IN THESE PLANS.

THE FOLLOWING RATES OF APPLICATION HAVE BEEN USED IN CALCULATING PLAN QUANTITIES:

|                              |        |                            |
|------------------------------|--------|----------------------------|
| GRANULAR MATERIALS           | 2.05   | TONS / CU YD               |
| HMA RESURFACING              | 112    | LBS / SQ YD / IN           |
| SHORT TERM PAVEMENT MARKING  | 10     | FT / 100 FT OF APPLICATION |
| MIX FOR CRACKS, JTS & FLOWYS | 0.0003 | TONS / SQ YD               |
| LEVEL BINDER (HAND METHOD)   | 0.0005 | TONS / SQ YD               |

MEMBERS OF JULIE KNOWN TO BE WITHIN THE LIMITS OF THE IMPROVEMENT ARE:  
AMEREN CIPS  
FRONTIER  
COMCAST

THE CONTRACTOR SHALL CONTACT JULIE AT LEAST 48 HOURS PRIOR TO EXCAVATION TO DETERMINE WHICH UTILITIES ARE IN THE AREA.

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
DISTRICT THREE

PREPARED BY: *Tom Beaulieu*  
DISTRICT STUDIES & PLANS ENGINEER

DATE: 8-13-14

EXAMINED BY: *[Signature]*  
DISTRICT CONSTRUCTION ENGINEER

*Wayne L. Phillips*  
DISTRICT MATERIALS ENGINEER

*Bruce Anderson*  
DISTRICT OPERATIONS ENGINEER

|  |             |          |         |   |                      |                           |         |          |              |           |  |
|--|-------------|----------|---------|---|----------------------|---------------------------|---------|----------|--------------|-----------|--|
| FILE NAME  | USER NAME   | DESIGNED | REVISED | <b>STATE OF ILLINOIS<br/>DEPARTMENT OF TRANSPORTATION</b> | <b>GENERAL NOTES</b> | F.A.S. RTE.               | SECTION | COUNTY   | TOTAL SHEETS | SHEET NO. |  |
| c:\pwwork\priedot\carpentardj\0241716\366A72-shr-cover.dgn | carpentardj | DRAWN    | REVISED |   |                      | 1324                      | 38 BR   | IRCOUOIS | 35           | 2         |  |
|  |             | CHECKED  | REVISED |   |                      | CONTRACT NO. 66A72        |         |          |              |           |  |
|  |             | DATE     | REVISED |   |                      | ILLINOIS FED. AID PROJECT |         |          |              |           |  |
|  |             |          |         | SCALE:  | SHEET NO.            | OF                        | SHEETS  | STA.     | TO           | STA.      |  |

| CODE NO. | ITEM  | UNIT  | TOTAL QUANTITY | CONSTR. CODE          |
|----------|---|-------|----------------|-----------------------|
|          |   |       |                | BRIDGE                |
|          |   |       |                | 80% FED.<br>20% STATE |
|          |   |       |                | 0014                  |
|          |   |       |                | S. N. 038-0184        |
| 28000400 | PERIMETER EROSION BARRIER                       | FOOT  | 420            | 420                   |
| 28100109 | STONE RIPRAP, CLASS A5                          | SQ YD | 325            | 325                   |
| 28200200 | FILTER FABRIC                                   | SQ YD | 325            | 325                   |
| 40600275 | BITUMINOUS MATERIALS (PRIME COAT)               | POUND | 352            | 352                   |
| 40600400 | MIXTURE FOR CRACKS, JOINTS, AND FLANGEWAYS      | TON   | 0.2            | 0.2                   |
| 40600527 | LEVELING BINDER (HAND METHOD), IL-9.5FG, N50    | TON   | 0.2            | 0.2                   |
| 40600627 | LEVELING BINDER (MACHINE METHOD), IL-9.5FG, N50 | TON   | 22             | 22                    |
| 40603310 | HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50    | TON   | 44             | 44                    |
| 42001430 | BRIDGE APPROACH PAVEMENT CONNECTOR (FLEXIBLE)   | SQ YD | 43             | 43                    |
| 44000100 | PAVEMENT REMOVAL                                | SQ YD | 208            | 208                   |
| 48101200 | AGGREGATE SHOULDERS, TYPE B                     | TON   | 64             | 64                    |
| 50101500 | REMOVAL OF EXISTING SUPERSTRUCTURES             | EACH  | 1              | 1                     |
| 50102400 | CONCRETE REMOVAL                                | CU YD | 3.8            | 3.8                   |
| 50200100 | STRUCTURE EXCAVATION                            | CU YD | 40             | 40                    |

\* SPECIALTY ITEMS

|                                       |                              |            |           |   |   |      |          |    |                    |         |        |                 |              |
|---------------------------------------|------------------------------|------------|-----------|---|---|------|----------|----|--------------------|---------|--------|-----------------|--------------|
| FILE NAME :                           | USER NAME : carpenterdj      | DESIGNED - | REVISED - | <b>STATE OF ILLINOIS<br/>DEPARTMENT OF TRANSPORTATION</b> | <b>SUMMARY OF QUANTITIES</b>            |      |          |    | F.A.S.<br>RTE.     | SECTION | COUNTY | TOTAL<br>SHEETS | SHEET<br>NO. |
| d:\pwork\psidot\carpenterdj\d0241716\ | 366A72-shr-sag.DGN           | DRAWN -    | REVISED - |   | 1324                                    | 388R | IROQUOIS | 35 | 3                  |         |        |                 |              |
|                                       | PLOT SCALE = 1/8" = 1' / in. | CHECKED -  | REVISED - |   | SCALE: SHEET NO. OF SHEETS STA. TO STA. |      |          |    | CONTRACT NO. 66A72 |         |        |                 |              |
|                                       | PLOT DATE = 8/12/2014        | DATE -     | REVISED - |   | ILLINOIS FED. AID PROJECT               |      |          |    |                    |         |        |                 |              |

CONSTR. CODE  
80% FED.  
20% STATE  
BRIDGE  
0014  
S. N. 038-0184

| CODE NO.   | ITEM  | UNIT   | TOTAL QUANTITY |       |
|------------|---|--------|----------------|-------|
| 50300225   | CONCRETE STRUCTURES                                 | CU YD  | 20.1           | 20.1  |
| 50300255   | CONCRETE SUPERSTRUCTURE                             | CU YD  | 95.5           | 95.5  |
| 50300260   | BRIDGE DECK GROOVING                                | SQ YD  | 351            | 351   |
| 50300300   | PROTECTIVE COAT                                     | SQ YD  | 374            | 374   |
| 50400305   | PRECAST PRESTRESSED CONCRETE DECK BEAMS (17" DEPTH) | SQ FT  | 1447           | 1447  |
| 50800205   | REINFORCEMENT BARS, EPOXY COATED                    | POUND  | 27380          | 27380 |
| 50901050   | STEEL RAILING, TYPE SM                              | FOOT   | 151            | 151   |
| 51500100   | NAME PLATES   | EACH   | 1              | 1     |
| 59000200   | EPOXY CRACK INJECTION                               | FOOT   | 7              | 7     |
| 59100100   | GEOCOMPOSITE WALL DRAIN                             | SQ YD  | 28             | 28    |
| * 63100087 | TRAFFIC BARRIER TERMINAL, TYPE 6A                   | EACH   | 4              | 4     |
| 63200310   | GUARDRAIL REMOVAL                                   | FOOT   | 212            | 212   |
| 67000400   | ENGINEER'S FIELD OFFICE, TYPE A                     | CAL MO | 3              | 3     |
| 67100100   | MOBILIZATION  | L SUM  | 1              | 1     |

\*

14

\* SPECIALTY ITEMS

|                                     |                         |            |           |   |                              |           |    |        |             |         |        |              |           |      |
|-------------------------------------|-------------------------|------------|-----------|---|------------------------------|-----------|----|--------|-------------|---------|--------|--------------|-----------|------|
| FILE NAME *                         | USER NAME * carpenterd  | DESIGNED - | REVISED - | <b>STATE OF ILLINOIS<br/>DEPARTMENT OF TRANSPORTATION</b> | <b>SUMMARY OF QUANTITIES</b> |           |    |        | F.A.S. RATE | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |      |
| c:\pwork\pilot\carpenterd\140241716 | 366A72-sht-300.DGN      | DRAWN -    | REVISED - |   | SCALE:                       | SHEET NO. | OF | SHEETS | STA.        | TO STA. | 1324   | 36BR         | IRROQUOIS | 35 4 |
|                                     | PLOT SCALE * 1/8"=1'-0" | CHECKED -  | REVISED - |   | CONTRACT NO. 66A72           |           |    |        |             |         |        |              |           |      |
|                                     | PLOT DATE * 8/12/2014   | DATE -     | REVISED - |   | ILLINOIS FED. AID PROJECT    |           |    |        |             |         |        |              |           |      |

Rev.

CONSTR. CODE  
80% FED,  
20% STATE  
BRIDGE  
0014  
S.N. 038-0184

| CODE NO.   | ITEM  | UNIT   | TOTAL QUANTITY |      |
|------------|---|--------|----------------|------|
| 70103815   | TRAFFIC CONTROL SURVEILLANCE                    | CAL DA | 37             | 37   |
| 70300100   | SHORT TERM PAVEMENT MARKING                     | FOOT   | 30             | 30   |
| 70301000   | WORK ZONE PAVEMENT MARKING REMOVAL              | SO FT  | 10             | 10   |
| * 78001110 | PAINT PAVEMENT MARKING - LINE 4"                | FOOT   | 1200           | 1200 |
| * 78001130 | PAINT PAVEMENT MARKING - LINE 6"                | FOOT   | 150            | 150  |
| * 78100100 | RAISED REFLECTIVE PAVEMENT MARKER               | EACH   | 4              | 4    |
| * 78200200 | BIDIRECTIONAL PRISMATIC BARRIER REFLECTOR       | EACH   | 6              | 6    |
| * 78200410 | GUARDRAIL MARKERS, TYPE A                       | EACH   | 4              | 4    |
| 78300200   | RAISED REFLECTIVE PAVEMENT MARKER REMOVAL       | EACH   | 4              | 4    |
| X4401198   | HOT-MIX ASPHALT SURFACE REMOVAL, VARIABLE DEPTH | SQ YD  | 522            | 522  |
| X5030305   | CONCRETE WEARING SURFACE, 5"                    | SQ YD  | 161            | 161  |
| X5860110   | GRANULAR BACKFILL FOR STRUCTURES                | CU YD  | 54             | 54   |
| X7010216   | TRAFFIC CONTROL AND PROTECTION, (SPECIAL)       | L SUM  | 1              | 1    |
| Z0001495   | BRIDGE APPROACH SHOULDER REMOVAL                | SQ YD  | 20             | 20   |

\* SPECIALTY ITEMS

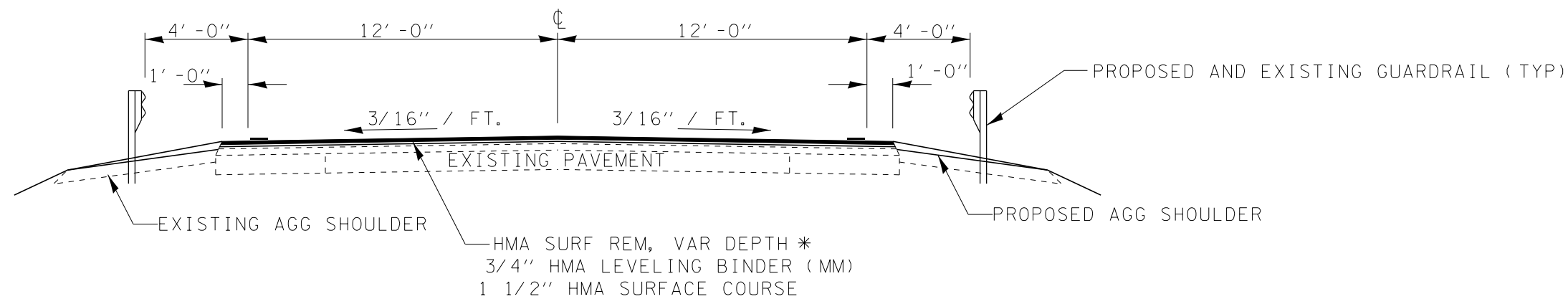
|   |                             |            |           |   |                                     |  |  |                    |         |          |              |           |
|---|-----------------------------|------------|-----------|---|-------------------------------------|--|--|--------------------|---------|----------|--------------|-----------|
| FILE NAME =                             | USER NAME = acarpentardj    | DESIGNED - | REVISED - | <b>STATE OF ILLINOIS<br/>DEPARTMENT OF TRANSPORTATION</b> | <b>SUMMARY OF QUANTITIES</b>        |  |  | F.A.S. RTE.        | SECTION | COUNTY   | TOTAL SHEETS | SHEET NO. |
| c:\pe-work\p\dot\acarpentardj\d0241716\ | 066A72-ahc-100.DGN          | DRAWN -    | REVISED - |   |                                     |  |  | 1324               | 38BR    | IRROUOIS | 35           | 5         |
|   | PLOT SCALE = 100.0000' / 1" | CHECKED -  | REVISED - |   | SCALE: SHEET OF SHEETS STA. TO STA. |  |  | CONTRACT NO. 66A72 |         |          |              |           |
| #MODELNAME*                             | PLOT DATE = 8/12/2014       | DATE -     | REVISED - |   | ILLINOIS FED. AID PROJECT           |  |  |                    |         |          |              |           |

NOV 3 4 2014

CONSTR. CODE  
 80% FED.  
 20% STATE  
 BRIDGE  
 0014  
 S.N. 038-0184

| CODE NO. | ITEM   | UNIT  | TOTAL QUANTITY |     |
|----------|--|-------|----------------|-----|
| Z0012754 | STRUCTURAL REPAIR OF CONCRETE (DEPTH EQUAL TO OR LESS THAN 5 INCHES) | SO FT | 8.2            | 8.2 |
| Z0021700 | EXPANSION JOINT REHABILITATION                                       | FOOT  | 52             | 52  |
| Z0030850 | TEMPORARY INFORMATION SIGNING  | SO FT | 42             | 42  |
| Z0046304 | PIPE UNDERDRAINS FOR STRUCTURES 4"                                   | FOOT  | 116            | 116 |

4  
 \* SPECIALTY ITEMS



**PROPOSED ROADWAY**

\* HMA SURF REM VARIES FROM 1/2" TO 2 1/4"

**STA 499+00 TO 499+93.38**  
**STA 501+12.63 TO 501+12.63**

| MIX DESIGN       |            |                  |                 |                     |                     |
|------------------|------------|------------------|-----------------|---------------------|---------------------|
| MIX              | PG GRADE** | DESIGN AIR VOIDS | MIX COMPOSITION | FRICITION AGGREGATE | DENSITY TEST METHOD |
| HMA SURFACE      | PG 64-22   | 4.0% @N50        | IL 9.5          | MIXTURE C           | CORES               |
| HMA LEVEL BINDER | PG 64-22   | 4.0% @N50        | IL 9.5FG        |                     | CORES               |

- \* MATERIAL SHALL BE COMPACTED TO 93.0 - 97.4 PERCENT OF THE MAXIUM THEORETICAL DENSITY, EXCEPT THAT WHEN PLACED AS FIRST LIFT ON AN UNIMPROVED SUBGRADE THE MINIMUM PERCENT COMPACTION SHALL BE 92.0 PERCENT. THE MAXIMUM THEORETICAL DENSITY SHALL BE DETERMINED FROM THE MOVING AVERAGE AS SPECIFIED IN THE QC/QA SPECIFICATION.
- \*\* WHEN RAP/RAS ABR EXCEEDS 20 PERCENT, THE HIGH AND LOW VIRGIN ASPHALT BINDER GRADES SHALL EACH BE REDUCED BY ONE GRADE (I.E. 25% ABR WOULD REQUIRE A VIRIGN ASPHALT BINDER GRADE OF PG 64-22 TO BE REDUCED TO PG 58-28).

| EROSION CONTROL SCHEDULE |      |                           |
|--------------------------|------|---------------------------|
| LOCATION                 |      | PERIMETER EROSION BARRIER |
| STA TO STA               | SIDE | FEET                      |
| 499+00 TO 500+36         | RT   | 136                       |
| 499+00 TO 500+48         | LT   | 148                       |
| 500+64 TO 502+00         | RT   | 136                       |
| <b>TOTAL</b>             |      | <b>420</b>                |

| GUARDRAIL SCHEDULE |                   |             |                   |
|--------------------|-------------------|-------------|-------------------|
| LOCATION           | GUARDRAIL REMOVAL | TBT TYPE 6A | GUARDRAIL MARKERS |
|                    | FOOT              | EACH        | EACH              |
| NW QUAD            | 53                | 1           | 1                 |
| SW QUAD            | 53                | 1           | 1                 |
| NE QUAD            | 53                | 1           | 1                 |
| SE QUAD            | 53                | 1           | 1                 |
| <b>TOTAL</b>       | <b>212</b>        | <b>4</b>    | <b>4</b>          |

| BRIDGE APPROACH PAVEMENT CONNECTOR (FLEXIBLE) |             |
|---|-------------|
| LOCATION                                      | SQ YD       |
| 499+94.39 TO 500+00.39                        | 21.3        |
| 501+05.61 TO 501+11.61                        | 21.3        |
| <b>TOTAL</b>                                  | <b>42.6</b> |

| MAINLINE SCHEDULE   |             |        |            |              |                   |                               |                 |                                 |                   |           |
|---------------------|-------------|--------|------------|--------------|-------------------|-------------------------------|-----------------|---------------------------------|-------------------|-----------|
| LOCATION            | STA TO STA  | LENGTH | PVMT AREA  | HMA SURF CSE | LEVEL BINDER (MM) | HMA SURFACE REMOVAL VAR DEPTH | BIT MAT (PR CT) | MIX FOR CRACKS, JOINTS & FLGWYS | LEVEL BINDER (HM) | AGG SHLDR |
|                     |             | FOOT   | SQ YD      | TON          | TON               | SQ YD                         | LBS             | TON                             | TON               | TON       |
| 499+00 TO 499+93.38 |             | 93.4   | 270        | 23           | 11                | 270                           | 182             | 0.1                             | 0.1               | 34        |
|                     | SN 038-0184 |        |            |              |                   |                               |                 |                                 |                   |           |
| 501+12.63 TO 502+00 |             | 87.4   | 252        | 21           | 11                | 252                           | 170             | 0.1                             | 0.1               | 30        |
| <b>TOTAL</b>        |             |        | <b>522</b> | <b>44</b>    | <b>22</b>         | <b>522</b>                    | <b>352</b>      | <b>0.2</b>                      | <b>0.2</b>        | <b>64</b> |

| EXPANSION JOINT REHAB |           |
|-----------------------|-----------|
| LOCATION              | FOOT      |
| SN 038-0184           | 52        |
| <b>TOTAL</b>          | <b>52</b> |

| PAVEMENT MARKING |                       |        |                             |            |                      |                     |                                 |                         |
|------------------|-----------------------|--------|-----------------------------|------------|----------------------|---------------------|---------------------------------|-------------------------|
| LOCATION         | DESCRIPTION           | LENGTH | PAINT PAVEMENT MARKING LINE |            | SHORT TERM PVMT MARK | WORK ZONE PVMT MARK | RAISED REFL PVMT MARKER REMOVAL | RAISED REFL PVMT MARKER |
|                  |                       |        | 4 INCH                      | 6 INCH     |                      |                     |                                 |                         |
|                  |                       |        | WHITE                       | YELLOW     |                      |                     |                                 |                         |
| STA              |                       | FOOT   | FOOT                        | FOOT       | FOOT                 | SQ FT               | EACH                            | EACH                    |
| 499+00 TO 502+00 | CENTER AND EDGE LINES | 300    | 1200                        | 150        | 30                   | 10                  | 4                               | 4                       |
| <b>TOTAL</b>     |                       |        | <b>1200</b>                 | <b>150</b> | <b>30</b>            | <b>10</b>           | <b>4</b>                        | <b>4</b>                |

NOTE: ADDITIONAL QUANTITY HAS BEEN INCLUDED TO ALLOW FOR TWO SEPARATE APPLICATIONS OF PAINT PAVEMENT MARKING LINE

| REMOVAL SCHEDULE       |             |        |              |                                  |
|------------------------|-------------|--------|--------------|----------------------------------|
| LOCATION               | STA TO STA  | LENGTH | PVMT REMOVAL | BRIDGE APPROACH SHOULDER REMOVAL |
|                        |             | FOOT   | SQ YD        | SQ YD                            |
| 499+93.38 TO 500+29.38 |             | 36.0   | 104          | 10                               |
|                        | SN 038-0184 |        |              |                                  |
| 500+76.63 TO 501+12.63 |             | 36.0   | 104          | 10                               |
| <b>TOTAL</b>           |             |        | <b>208</b>   | <b>20</b>                        |

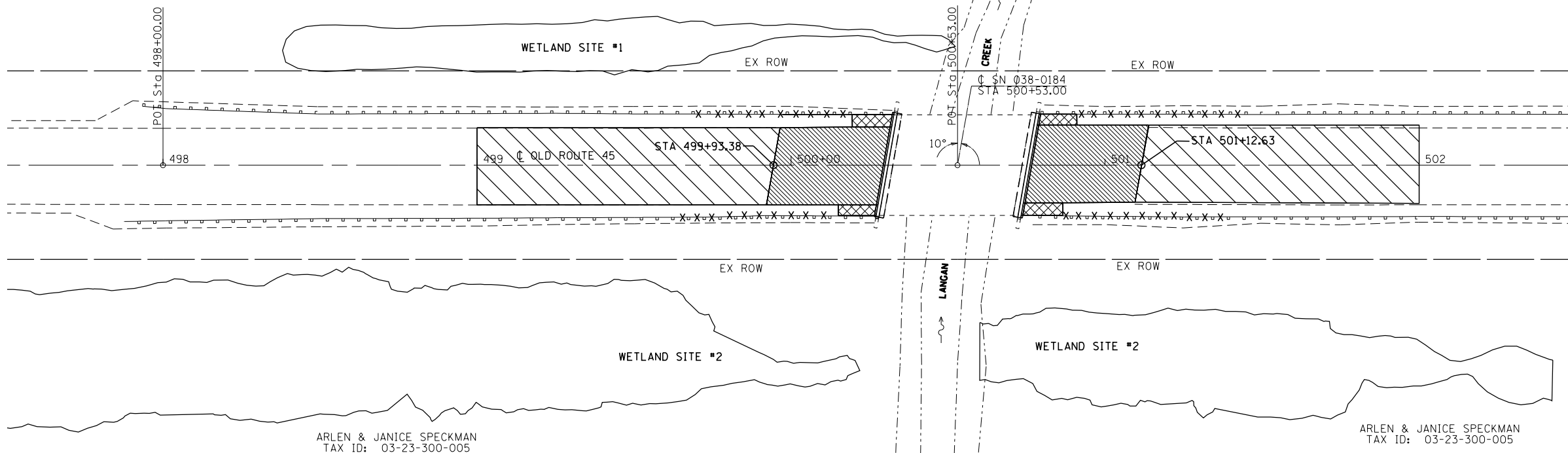


RETA ADAMS  
TAX ID: 03-23-300-002

RETA ADAMS  
TAX ID: 03-23-300-002

ARLEN & JANICE SPECKMAN  
TAX ID: 03-23-300-005

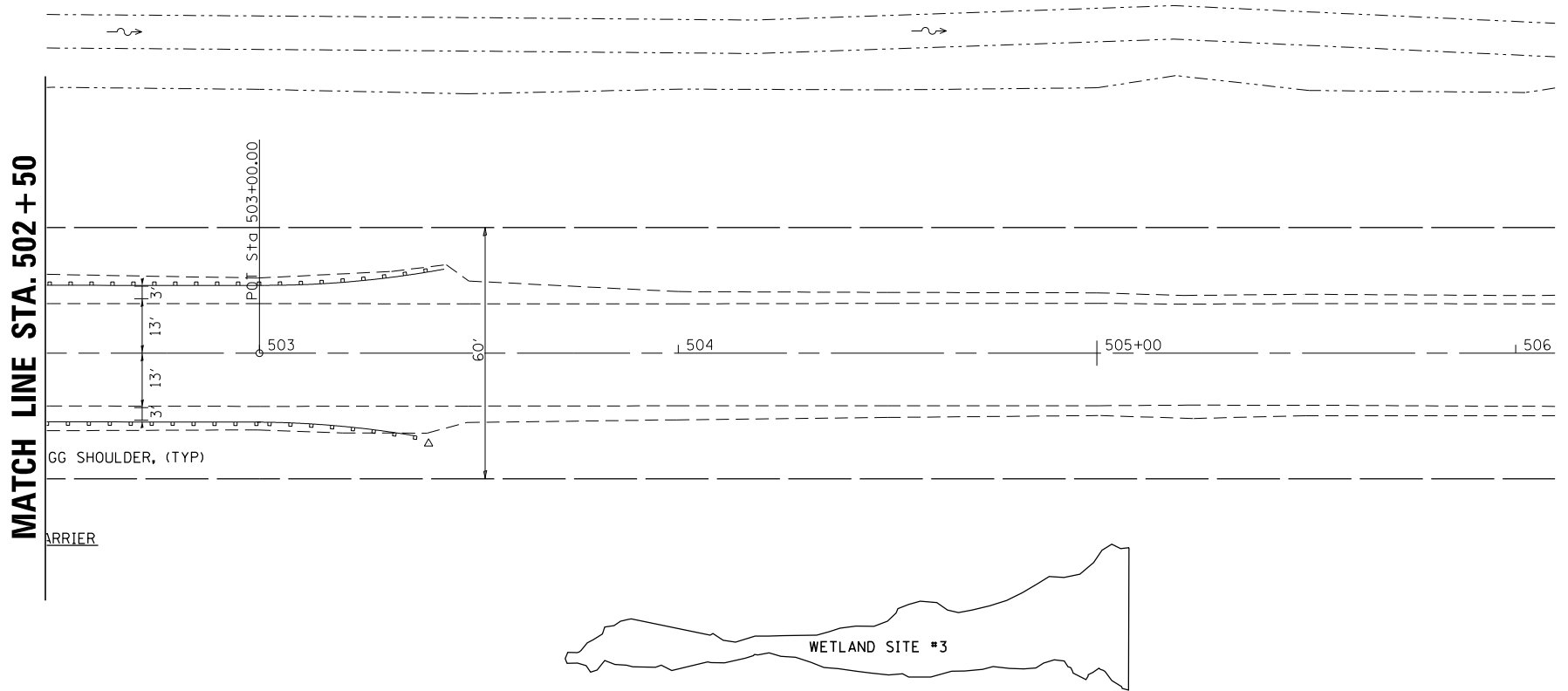
ARLEN & JANICE SPECKMAN  
TAX ID: 03-23-300-005



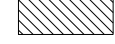



MATCH LINE STA. 502 + 50

0 20 40 60  
SCALE IN FEET

MATCH LINE STA. 502 + 50



-  BRIDGE APPROACH SHOULDER REMOVAL
-  HMA SURFACE REMOVAL, VARIABLE DEPTH
-  PAVEMENT REMOVAL
-  GUARDRAIL REMOVAL

0 20 40 60  
SCALE IN FEET

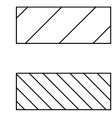
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|   | PLOT SCALE = 40.0000' / in. | CHECKED -  | REVISED - |
| #MODELNAME#   | PLOT DATE = 8/12/2014       | DATE -     | REVISED - |

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

REMOVAL PLAN

SCALE: SHEET OF SHEETS STA. TO STA.

|                           |         |          |              |           |
|---------------------------|---------|----------|--------------|-----------|
| F.A.S. RTE.               | SECTION | COUNTY   | TOTAL SHEETS | SHEET NO. |
| 1324                      | 38 BR   | IROQUOIS | 35           | 9         |
| CONTRACT NO. 66A72        |         |          |              |           |
| ILLINOIS FED. AID PROJECT |         |          |              |           |



BRIDGE APPROACH PAVEMENT

BRIDGE APPROACH PAVEMENT CONNECTOR (FLEXIBLE)

RETA ADAMS  
TAX ID: 03-23-300-002

RETA ADAMS  
TAX ID: 03-23-300-002

IMPROVEMENT BEGINS  
STA 499+00

PERIMETER EROSION BARRIER  
STA 499+00, 30' LT

WETLAND SITE #1

PERIMETER EROSION BARRIER  
STA 500+48, 30' LT

EX ROW

POT STA 500+53.00

SN 038-0184  
STA 500+53.00

10°

LANGAN CREEK

EX ROW

PROP TRAFFIC BARRIER TERM  
TY 6A - 1 EA (TYP)

IMPROVEMENT ENDS  
STA 502+00

498 F.A.S. 1324 / OLD U.S. 45

PERIMETER EROSION BARRIER  
STA 499+00, 30' RT

WETLAND SITE #2

PERIMETER EROSION BARRIER  
STA 500+36, 30' RT

EX ROW

PERIMETER EROSION BARRIER  
STA 500+64, 30' RT

WETLAND SITE #2

PERIMETER EROSION BARRIER  
STA 502+00, 30' RT

PROPOSED AGG SHOULDER, (TYP)

ARLEN & JANICE SPECKMAN  
TAX ID: 03-23-300-005

BM #1-ELEVATION=641.78  
CHIS TOP SW  
WINGWALL SN 038-0184  
STA 500+72.94, 17.16' RT

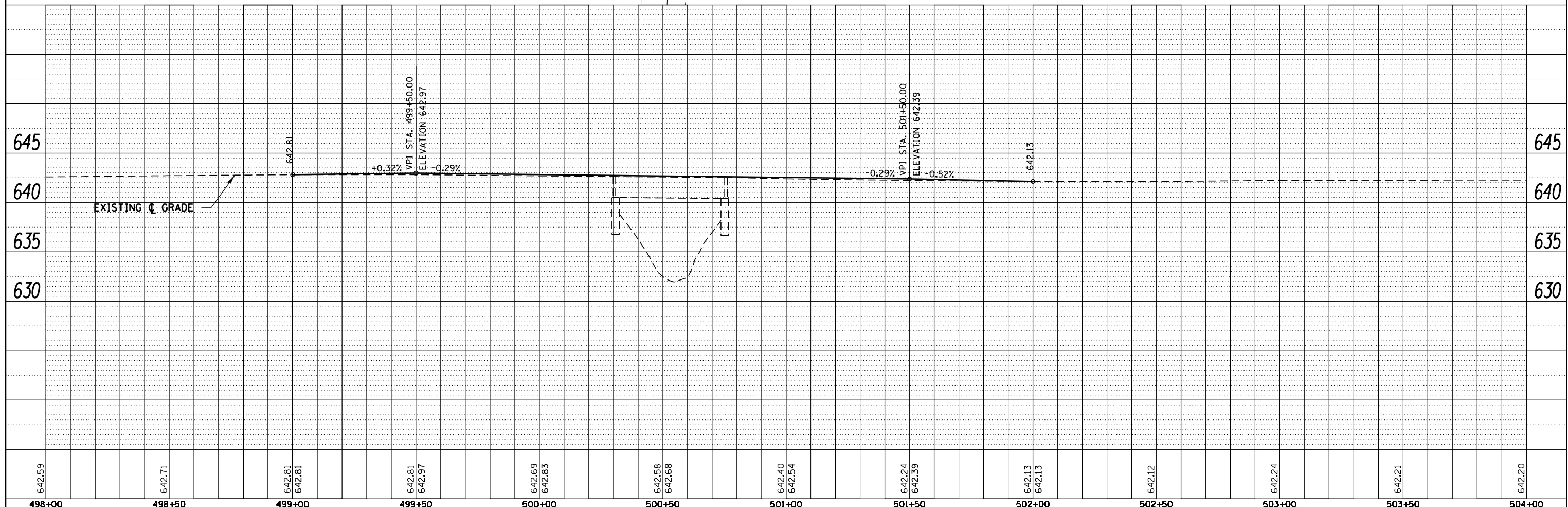
ARLEN & JANICE SPECKMAN  
TAX ID: 03-23-300-005

BM #2-ELEVATION=642.20  
RR SPIKE IN PP  
STA 503+63.85, 28.98' RT



|      |                             |    |      |
|------|-----------------------------|----|------|
| PLAN | SURVEYED                    | BY | DATE |
|      | PLOTTED                     |    |      |
|      | GRADES CHECKED              |    |      |
|      | STRUCTURE NOTATIONS CHECKED |    |      |
|      | NOTE BOOK NO.               |    |      |
|      | CADD FILE NAME              |    |      |

|         |                             |    |      |
|---------|-----------------------------|----|------|
| PROFILE | SURVEYED                    | BY | DATE |
|         | PLOTTED                     |    |      |
|         | GRADES CHECKED              |    |      |
|         | STRUCTURE NOTATIONS CHECKED |    |      |
|         | NOTE BOOK NO.               |    |      |
|         | CADD FILE NAME              |    |      |



|  |                             |            |           |
|--|-----------------------------|------------|-----------|
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| MODELNAMEs   | PLOT SCALE = 40.0000' / in. | CHECKED -  | REVISED - |
|  | PLOT DATE = 8/12/2014       | DATE -     | REVISED - |

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

PLAN AND PROFILE

SCALE: SHEET 1 OF 1 SHEETS STA. 498+00 TO STA. 504+00

|                    |         |          |                           |           |
|--------------------|---------|----------|---------------------------|-----------|
| F.A.S. RTE.        | SECTION | COUNTY   | TOTAL SHEETS              | SHEET NO. |
| 1324               | 38 BR   | IROQUOIS | 35                        | 10        |
| CONTRACT NO. 66A72 |         |          | ILLINOIS FED. AID PROJECT |           |

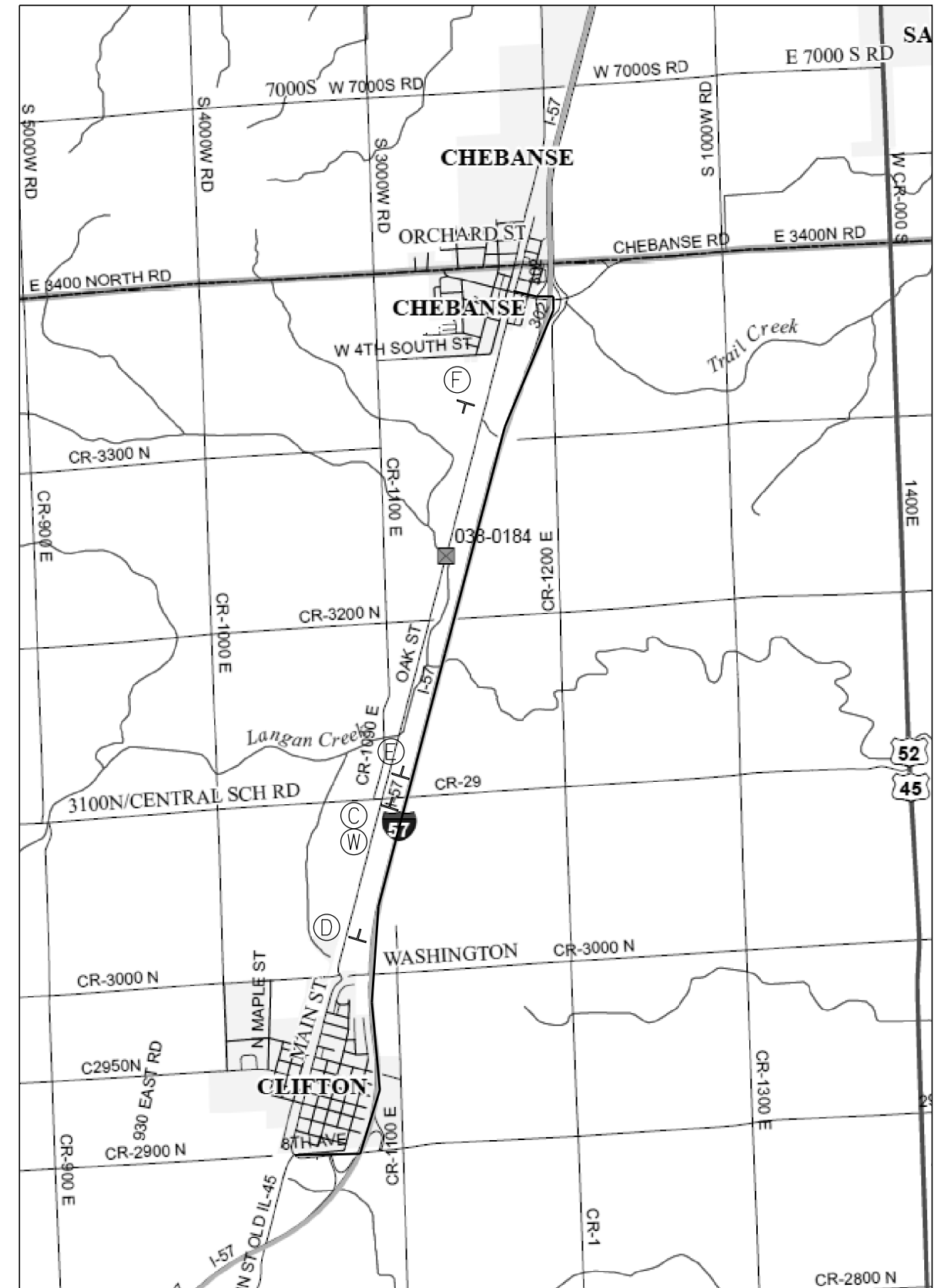
# LEGEND

- TYPE III BARRICADES CONFORMING TO STD. 702001 "ROAD CLOSED TO ALL TRAFFIC" WITH 2 FLASHING LIGHTS PER BARRICADE
- TYPE III BARRICADES CONFORMING TO STD. 702001 "ROAD CLOSED TO THRU TRAFFIC" WITH 2 FLASHING LIGHTS PER BARRICADE
- SIGNS ON PERMANENT SUPPORTS
- DETOUR ROUTE

## NOTES:

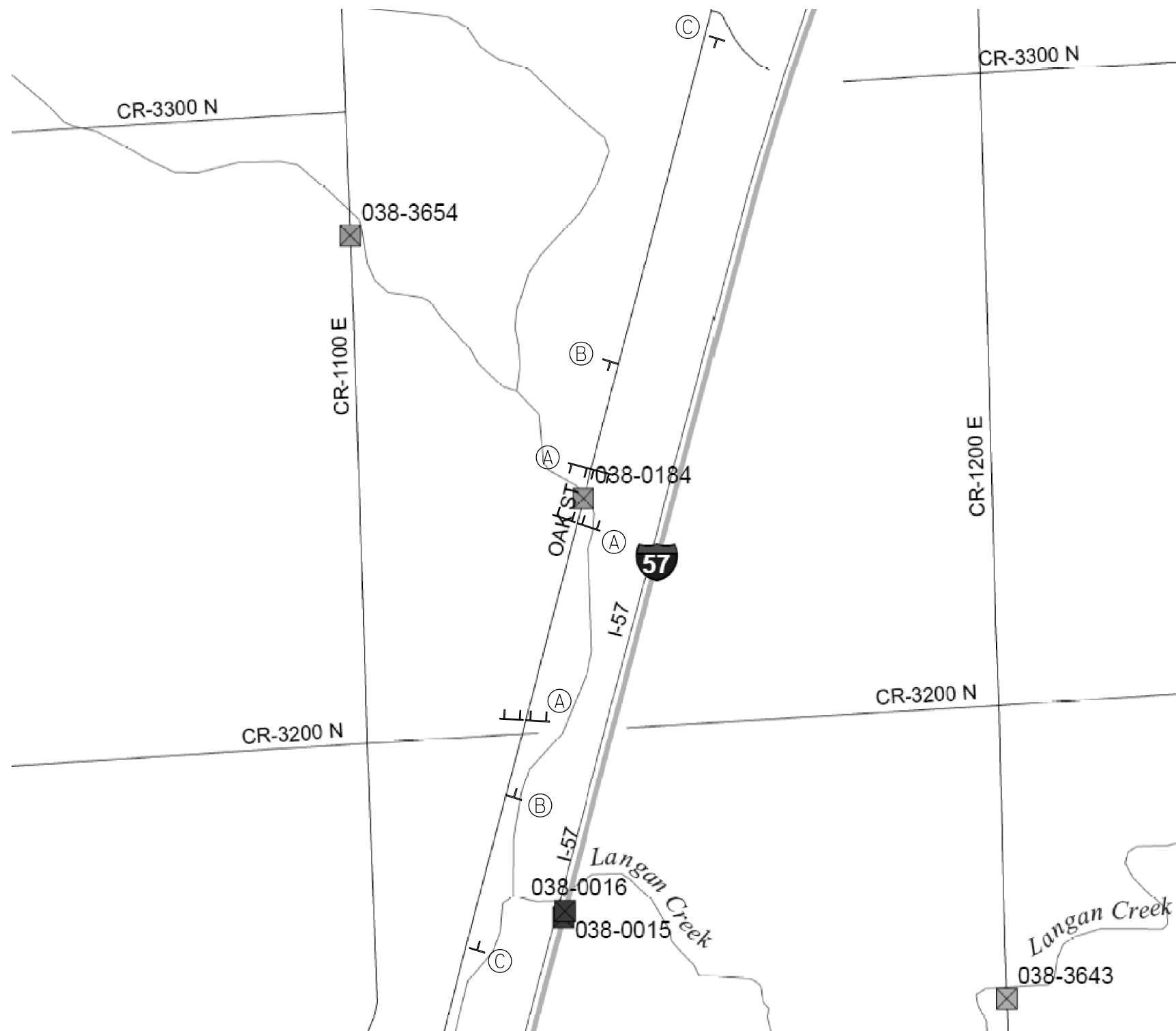
1. ALL TRAFFIC CONTROL DEVICES SHALL BE FURNISHED, ERECTED AND MAINTAINED BY THE CONTRACTOR.
2. ALL SIGNS NOT ATTACHED TO BARRICADES SHALL BE POST MOUNTED, UNLESS OTHERWISE NOTED.
3. LOCATIONS OF TRAFFIC CONTROL DEVICES MAY BE ADJUSTED BY THE ENGINEER.
4. SIGNS B,C,G,H,I,J,K,L,M,O,Q,R,S,U,V AND W SHALL BE BLACK LETTERS ON FLUORESCENT ORANGE SIGN.
5. SEE STANDARDS BLR21-9 AND BLR22-7 FOR DETAILS.

|                                       |   |   |   |   |   |
|---------------------------------------|---|---|---|---|---|
| ROAD CLOSED<br>R11-2-4830<br>(A)      | ROAD CLOSED<br>500 FT<br>W20-3-4848<br>(B)                                | ROAD CLOSED<br>AHEAD<br>W20-3-4848<br>(C) | BRIDGE OUT<br>2.3 MILES AHEAD<br>LOCAL TRAFFIC ONLY<br>R11-3b-6030<br>(D) | BRIDGE OUT<br>1.3 MILES AHEAD<br>LOCAL TRAFFIC ONLY<br>R11-3b-6030<br>(E) | BRIDGE OUT<br>0.8 MILES AHEAD<br>LOCAL TRAFFIC ONLY<br>R11-3b-6030<br>(F) |
| 1100 E RD<br>OLD US 45<br>3018<br>(G) | SOUTH<br>M3-1-2412<br>(H)   | NORTH<br>M3-3-2412<br>(I)                 | DETOUR<br>M4-8-2412<br>(J)  | →<br>M6-1-2115<br>(K)   | ←<br>M5-1-2115<br>(L)   |
| DETOUR<br>AHEAD<br>W20-2a-4848<br>(M) | BRIDGE OUT<br>1.6 MILES AHEAD<br>LOCAL TRAFFIC ONLY<br>M2-1-2115<br>(N)   | END<br>DETOUR<br>M4-8A-2418<br>(O)        | ROAD CLOSED<br>TO<br>THRU TRAFFIC<br><del>R11-4-4830<br/>(P)</del>        | ↑<br>M6-3-2115<br>(Q)   | ↗<br>M5-2-2115<br>(R)   |
| ↗<br>M6-2-2115<br>(S)                 | BRIDGE OUT<br>3.8 MILES AHEAD<br>LOCAL TRAFFIC ONLY<br>R11-3b-6030<br>(T) | ←<br>M6-1-2115<br>(U)                     | →<br>M5-1-2115<br>(V)   | 1 MILE<br>M4-8-2412<br>(W)  |   |



DETOUR MAP

|   |                         |            |                           |   |                     |    |        |             |          |        |              |           |
|---|-------------------------|------------|---------------------------|---|---------------------|----|--------|-------------|----------|--------|--------------|-----------|
| FILE NAME =   | USER NAME = carpenterdj | DESIGNED - | REVISED -                 | <b>STATE OF ILLINOIS<br/>DEPARTMENT OF TRANSPORTATION</b> | <b>DETOUR PLANS</b> |    |        | F.A.S. RTE. | SECTION  | COUNTY | TOTAL SHEETS | SHEET NO. |
| ei:\pw\work\pilot\carpenterdj\d0241716\366A72-sht-signing.dgn | DRAWN -                 | REVISED -  | 1324                      |   |                     |    |        | 38 BR       | IROQUOIS | 35     | 11           |           |
| PLOT SCALE = 100.0000' / in.                                  | CHECKED -               | REVISED -  | CONTRACT NO. 66A72        |   |                     |    |        |             |          |        |              |           |
| PLOT DATE = 8/12/2014   | DATE -                  | REVISED -  | ILLINOIS FED. AID PROJECT |   |                     |    |        |             |          |        |              |           |
|   |                         |            |                           | SCALE:  | SHEET               | OF | SHEETS | STA.        | TO       | STA.   |              |           |



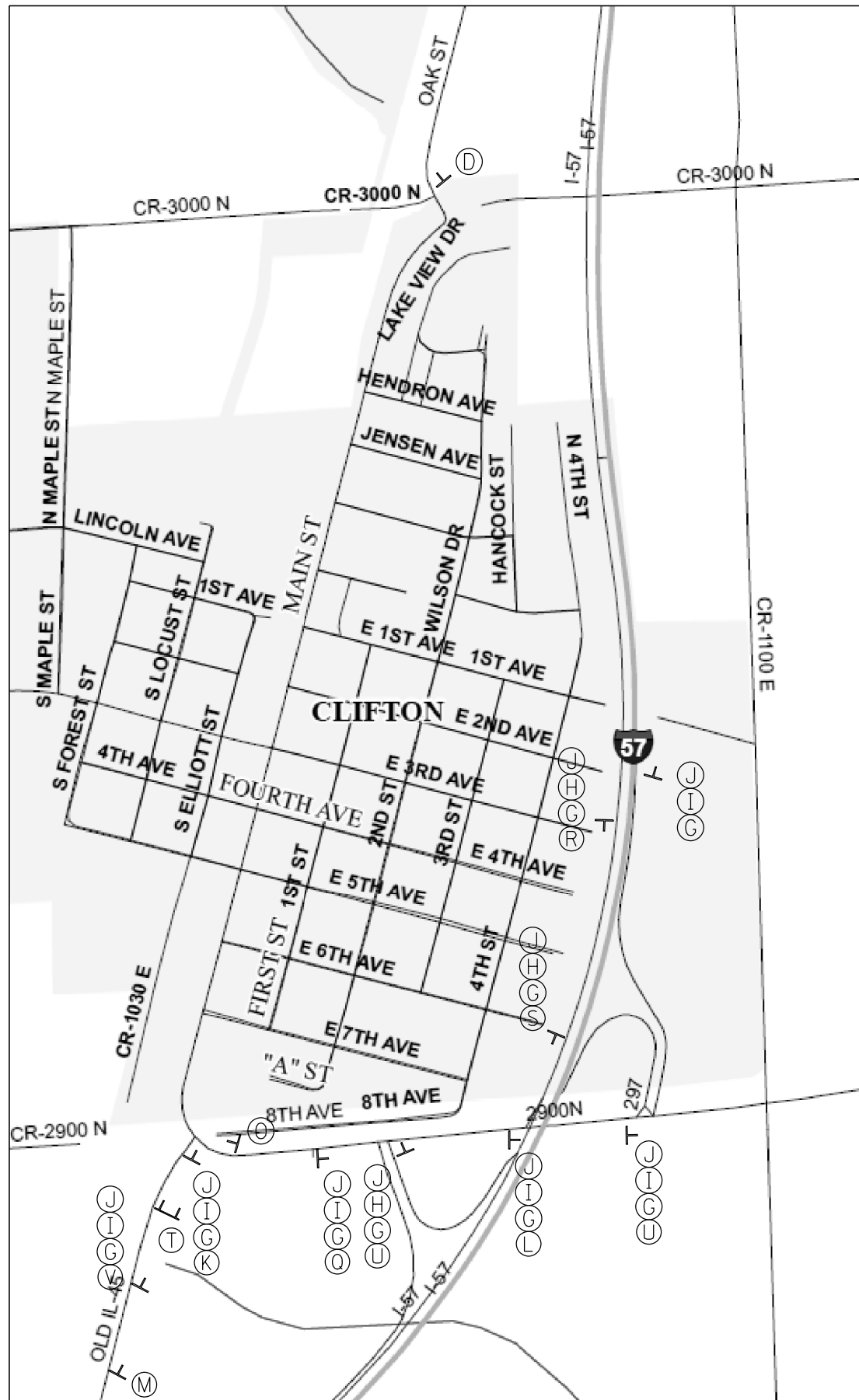
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|   | PLOT SCALE = 100.0000' / in. | CHECKED -  | REVISED - |
|   | PLOT DATE = 8/12/2014        | DATE -     | REVISED - |

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**DETOUR PLANS**

SCALE: SHEET OF SHEETS STA. TO STA.

| F.A.S. RTE.               | SECTION | COUNTY   | TOTAL SHEETS | SHEET NO. |
|---------------------------|---------|----------|--------------|-----------|
| 1324                      | 38 BR   | IROQUOIS | 35           | 12        |
| CONTRACT NO. 66A72        |         |          |              |           |
| ILLINOIS FED. AID PROJECT |         |          |              |           |



|  |                              |            |           |
|--|------------------------------|------------|-----------|
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| \$MODELNAME\$  | PLOT SCALE = 100.0000' / in. | CHECKED -  | REVISED - |
|  | PLOT DATE = 8/12/2014        | DATE -     | REVISED - |

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**DETOUR PLANS**

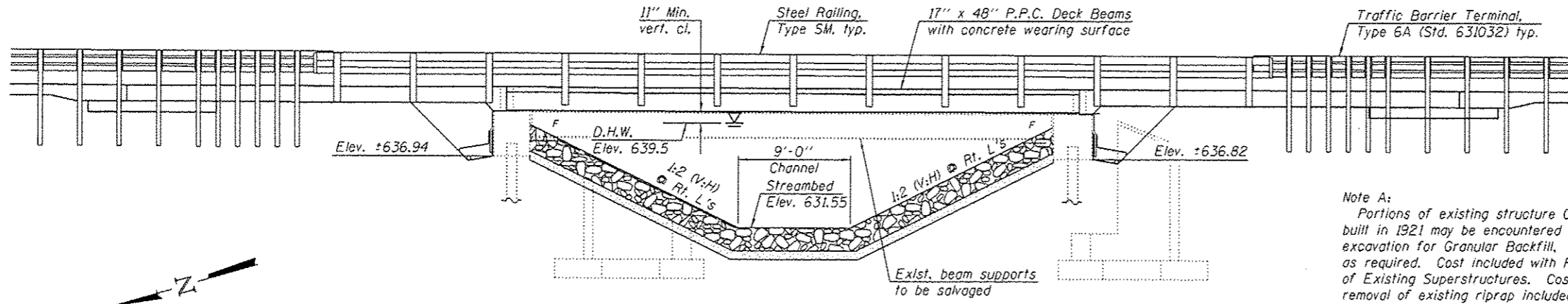
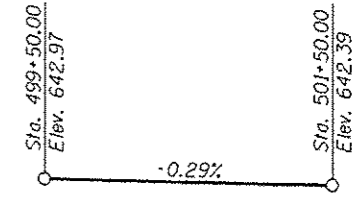
SCALE: SHEET OF SHEETS STA. TO STA.

| F.A.S. RTE.               | SECTION | COUNTY   | TOTAL SHEETS | SHEET NO. |
|---------------------------|---------|----------|--------------|-----------|
| 1324                      | 38 BR   | IROQUOIS | 35           | 13        |
| CONTRACT NO. 66A72        |         |          |              |           |
| ILLINOIS FED. AID PROJECT |         |          |              |           |

Benchmark: BM #1 - Square notch on S.W. wingwall of S.N. 038-0184; Sta. 500+72.94, 17.16' Rt., Elev. 641.781

Existing structure: Structure No. 038-0184, built in 1987 as S.B.I. Rte. 25, Section 38BR. The superstructure consists of a single span, 17" precast prestressed concrete deck beam structure with a bituminous wearing surface. The substructure consists of concrete pile bent abutments, supported on steel piles. The back-to-back of abutments dimension measures 47'-3" and the out-to-out dimension measures 32'-0". Traffic is to be detoured during construction.

Existing beam supports to be salvaged and delivered to a location to be determined by the district. Cost included with Removal of Existing Superstructures.



ELEVATION

Note A:  
Portions of existing structure 038-0113, built in 1921 may be encountered during excavation for Granular Backfill, Remove as required. Cost included with Removal of Existing Superstructures. Cost of removal of existing riprap included with Removal of Existing Superstructures.

PROFILE GRADE  
(Along & roadway)

STATION 500+53.00  
REBUILT 20 BY  
STATE OF ILLINOIS  
F.A.S. RTE. 1324 SEC. 38BR  
LOADING HL-93  
STRUCTURE NO. 038-0184

NAME PLATE  
See Std. 515001

Existing Name Plate shall be cleaned and relocated next to new Name Plate. Cost included with Name Plates.

DESIGN SPECIFICATIONS

2012 AASHTO LRFD Bridge Design Specifications, 6th Edition

DESIGN STRESSES

FIELD UNITS (NEW CONSTRUCTION)

$f'_c = 3,500$  psi  
 $f'_c = 5,000$  psi (wearing surface)  
 $f_y = 60,000$  psi (Reinforcement)

\* Superstructure concrete shall have a 28-day mix design with compressive strength of 5,000 psi.

FIELD UNITS (EXISTING CONSTRUCTION)

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

PRECAST PRESTRESSED UNITS

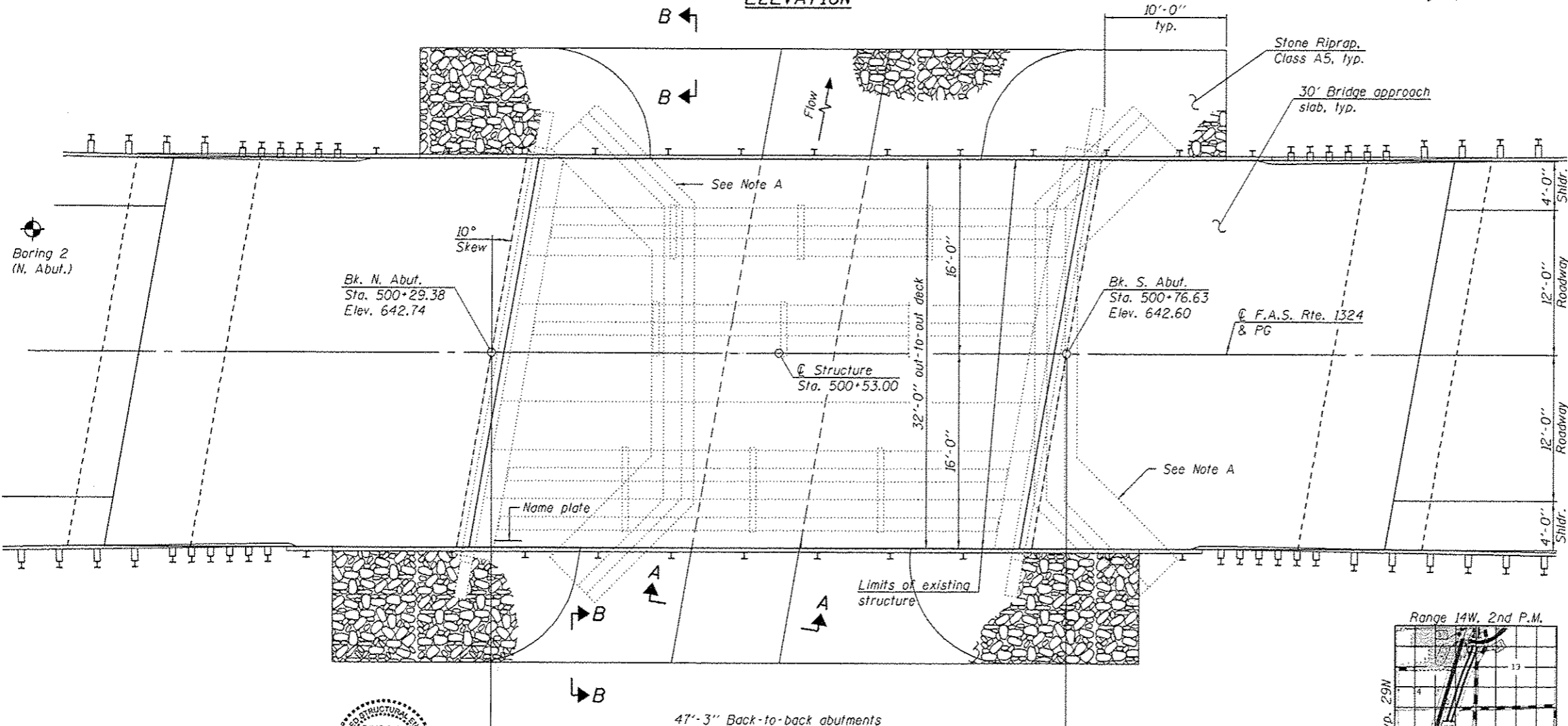
$f'_c = 6,000$  psi  
 $f'_ci = 5,000$  psi  
 $f_{pu} = 270,000$  psi ( $1/2$ " low relax. strands)  
 $f_{psi} = 201,960$  psi ( $1/2$ " low relax. strands)

LOADING HL-93 (NEW CONSTRUCTION)

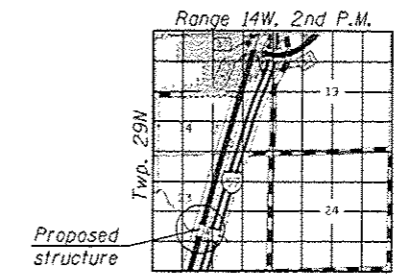
(No future wearing surface)

SEISMIC DATA

Seismic Performance Zone (SPZ) = 1  
Design Spectral Acceleration at 1.0 sec. ( $S_{D1}$ ) = 0.105 g  
Design Spectral Acceleration at 0.2 sec. ( $S_{D5}$ ) = 0.170 g  
Soil Site Class = D



PLAN



LOCATION SKETCH

GENERAL PLAN & ELEVATION  
F.A.S. RTE. 1324 (OLD U.S. 45)  
OVER LANGAN CREEK TRIBUTARY  
SECTION 38BR  
IROQUOIS COUNTY  
STATION 500+53.00  
STRUCTURE NO. 038-0184



EXPIRES 11-30-2014

DESIGNED - F. K. Korman  
CHECKED - h. t. duong  
DRAWN - h. t. duong  
CHECKED - FTIGRA

EXAMINED - David Carl Fuzey  
PASSED - David Carl Fuzey  
ACTING ENGINEER OF BRIDGES AND STRUCTURES

DATE - 9-3-14  
REVISED

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

GENERAL PLAN & ELEVATION  
STRUCTURE NO. 038-0184

SHEET NO. 1 OF 11 SHEETS

| F.A.S. RTE. | SECTION | COUNTY    | TOTAL SHEETS       | SHEET NO. |
|-------------|---------|-----------|--------------------|-----------|
| 1324        | 38BR    | IRROQUOIS | 35                 | 14        |
|             |         |           | CONTRACT NO. 66A72 |           |

ILLINOIS FED. AID PROJECT

**GENERAL NOTES**

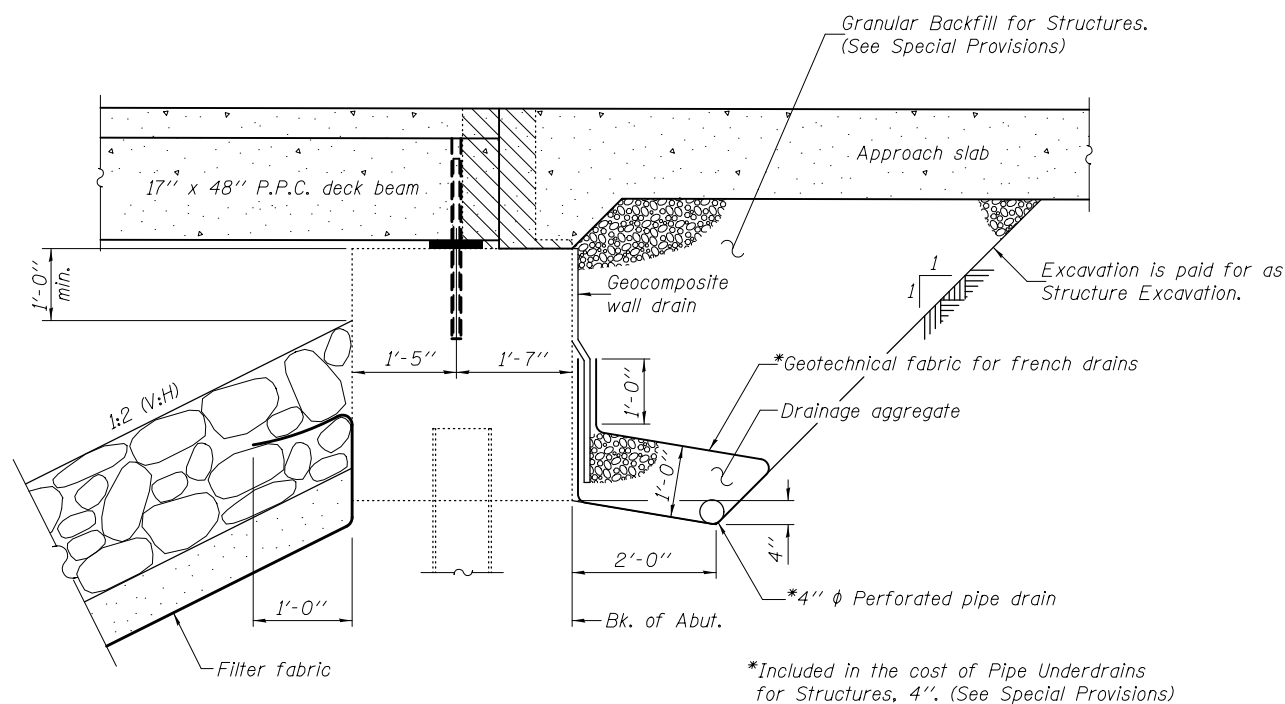
Reinforcement bars designated (E) shall be epoxy coated.  
 Plan dimensions and details relative to existing plans are subject to nominal construction variations. The Contractor shall field verify existing dimensions and details affecting new construction and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in scope of the work, however, the Contractor will be paid for the quantity actually furnished at the unit price bid for the work.  
 Layout of the slope protection system may be varied to suit ground conditions in the field as directed by the Engineer.

**TOTAL BILL OF MATERIAL**

| ITEM  | UNIT    | SUPER | SUB  | TOTAL |
|---|---------|-------|------|-------|
| Granular Backfill for Structures                    | Cu. Yd. |       | 54   | 54    |
| Stone Riprap, Class A5                              | Sq. Yd. |       | 325  | 325   |
| Filter Fabric                                       | Sq. Yd. |       | 325  | 325   |
| Removal of Existing Superstructures                 | Each    | 1     |      | 1     |
| Structure Excavation                                | Cu. Yd. |       | 40.0 | 40.0  |
| Concrete Removal                                    | Cu. Yd. |       | 3.8  | 3.8   |
| Concrete Structures                                 | Cu. Yd. |       | 20.1 | 20.1  |
| Concrete Superstructure                             | Cu. Yd. | 95.5  |      | 95.5  |
| Bridge Deck Grooving                                | Sq. Yd. | 351   |      | 351   |
| Protective Coat                                     | Sq. Yd. | 374   |      | 374   |
| Concrete Wearing Surface, 5"                        | Sq. Yd. | 161   |      | 161   |
| Precast Prestressed Concrete Deck Beams (17" Depth) | Sq. Ft. | 1447  |      | 1447  |
| Reinforcement Bars, Epoxy Coated                    | Pound   | 27380 |      | 27380 |
| Steel Railing, Type SM                              | Foot    | 151   |      | 151   |
| Name Plates   | Each    | 1     |      | 1     |
| Epoxy Crack Injection                               | Foot    |       | 7    | 7     |
| Geocomposite Wall Drain                             | Sq. Yd. |       | 28   | 28    |
| Pipe Underdrains for Structures, 4"                 | Foot    |       | 116  | 116   |
| Structural Repair of Concrete (Depth ≤ 5")          | Sq. Ft. |       | 8.2  | 8.2   |

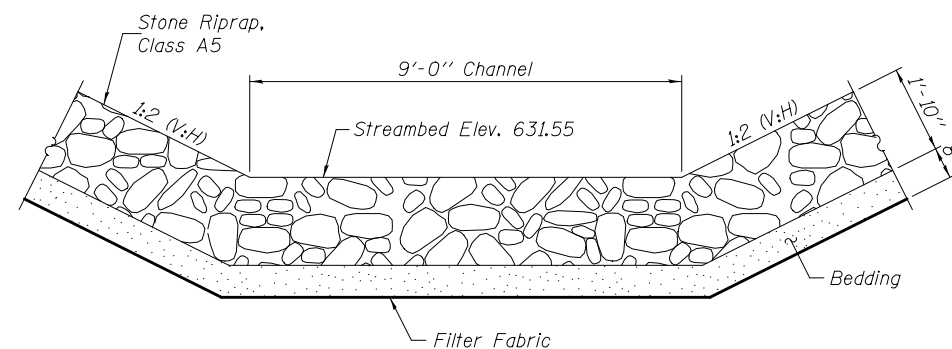
**INDEX OF SHEETS**

- 1 General Plan & Elevation
- 2 General Data
- 3 Superstructure
- 4 Superstructure Details
- 5-6 Bridge Approach Slab Details
- 7 Steel Railing Type SM with Concrete Wearing Surface
- 8 17" x 48" PPC Deck Beam
- 9 17" x 48" PPC Deck Beam Details
- 10 Abutment Repair Details
- 11 Soil Boring Logs

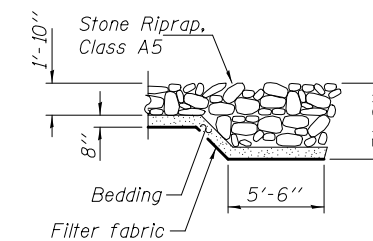


**SECTION THRU ABUTMENT**  
(Horiz. dim. @ Rt. L's)

Note: All drainage system components shall extend to the end of abutment cap except an outlet pipe shall extend until intersecting with the side slopes. The pipes shall drain into concrete headwalls. (See Article 601.05 of the Standard Specifications and Highway Standard 601101).



**SECTION A-A**



**SECTION B-B**

**WATERWAY INFORMATION**

Drainage Area = 6.6 sq. mi. Existing Overtopping Elev. 641.9 @ Sta. 505+25  
 Proposed Overtopping Elev. 641.9 @ Sta. 505+25

| Flood                | Freq. Yr. | Q C.F.S. | Opening Sq. Ft. |       | Nat. H.W.E. | Head - Ft. |       | Headwater El. |       |
|----------------------|-----------|----------|-----------------|-------|-------------|------------|-------|---------------|-------|
|                      |           |          | Exist.          | Prop. |             | Exist.     | Prop. | Exist.        | Prop. |
|                      | 10        | 1220     | 158             | 158   | 638.7       | 1.1        | 1.1   | 639.8         | 639.8 |
| Existing Overtopping | 42        | 1920     | 191             | 191   | 639.5       | 2.5        | 2.5   | 642.0         | 642.0 |
| Design               | 50        | 2000     | 194             | 194   | 639.5       | 2.5        | 2.5   | 642.0         | 642.0 |
| Proposed Overtopping | 90        | 2310     | 207             | 207   | 639.8       | 2.3        | 2.3   | 642.2         | 642.2 |
| Base                 | 100       | 2350     | 208             | 208   | 639.9       | 2.3        | 2.3   | 642.2         | 642.2 |
| Max. Calc.           | 500       | 3200     | 232             | 232   | 640.5       | 1.7        | 1.7   | 642.2         | 642.2 |

10 year velocity through existing bridge = 7.6 ft./sec.  
 10 year velocity through proposed bridge = 7.6 ft./sec.

**DESIGN SCOUR ELEVATION TABLE**

| Design Scour Elevations (ft.) |                |                |
|-------------------------------|----------------|----------------|
|                               | North Abutment | South Abutment |
| Q500                          | 636.94         | 636.82         |

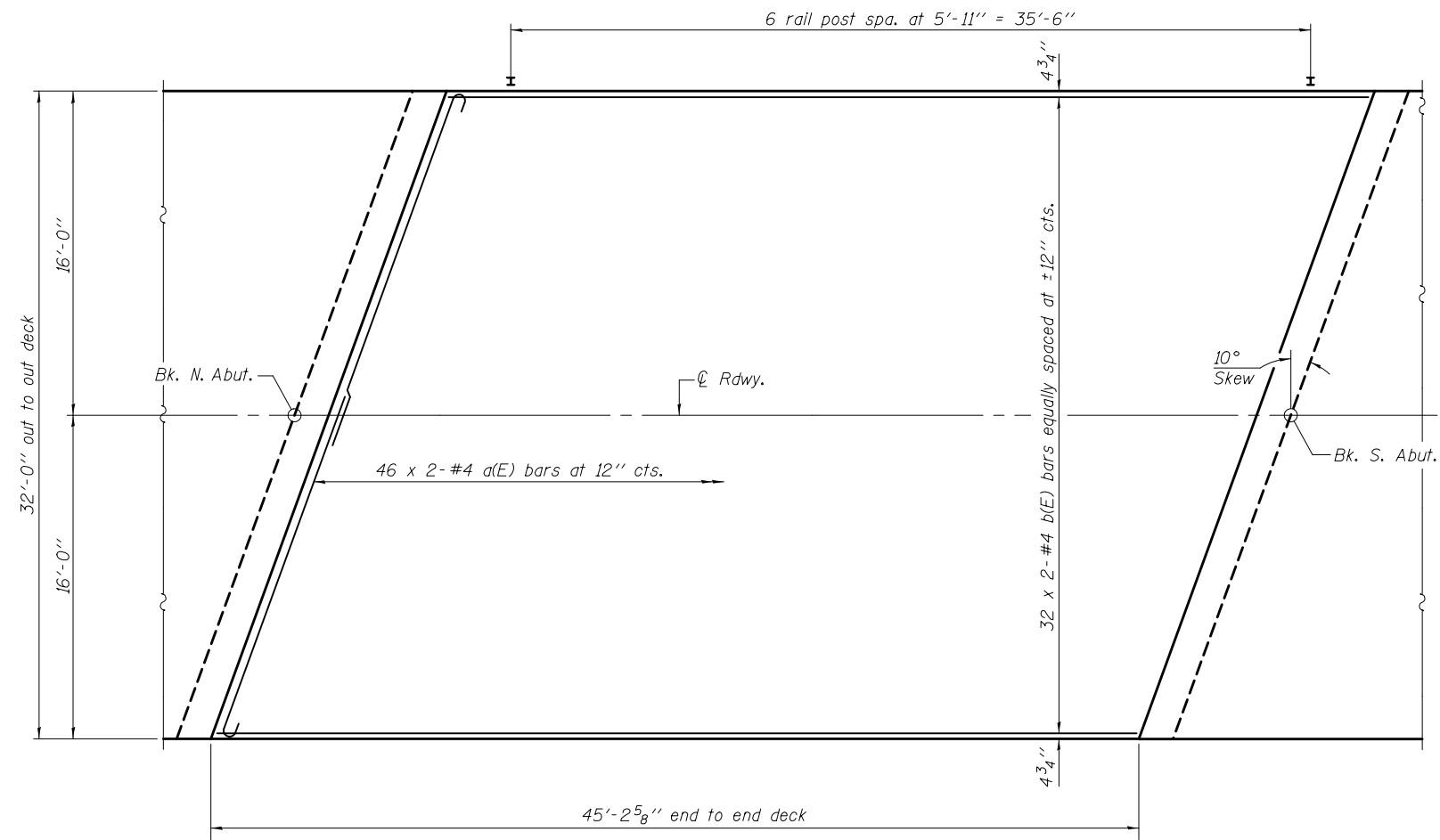
|                               |   |                          |
|-------------------------------|---|--------------------------|
| DESIGNED - Fess Teklehalmanot | EXAMINED - <i>Jayne F. [Signature]</i>    | DATE - SEPTEMBER 3, 2014 |
| CHECKED - Ray Ahanchl         | PASSED - <i>Carl [Signature]</i>          | REVISED -                |
| DRAWN - h.t. duong            | ACTING ENGINEER OF BRIDGES AND STRUCTURES | REVISED -                |
| CHECKED - FT/GRA              |   |                          |

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

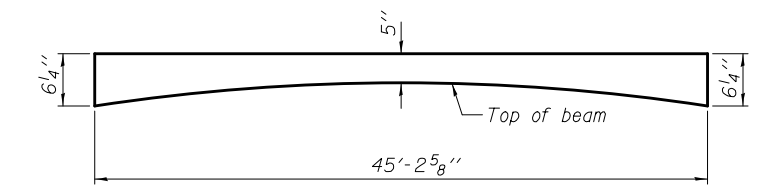
**GENERAL DATA  
 STRUCTURE NO. 038-0184**

SHEET NO. 2 OF 11 SHEETS

|                           |         |          |              |           |
|---------------------------|---------|----------|--------------|-----------|
| F.A.S. RTE.               | SECTION | COUNTY   | TOTAL SHEETS | SHEET NO. |
| 1324                      | 38BR    | IROQUOIS | 35           | 15        |
| CONTRACT NO. 66A72        |         |          |              |           |
| ILLINOIS FED. AID PROJECT |         |          |              |           |

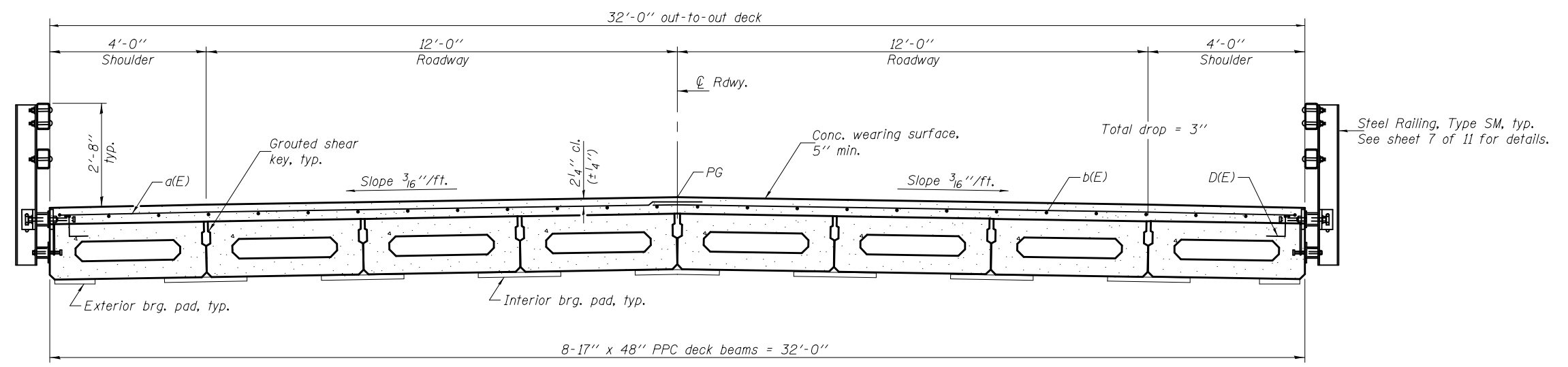


**PLAN**



**ANTICIPATED CONCRETE WEARING SURFACE PROFILE**  
(For information only)

Notes:  
 See sheet 4 of 11 for Superstructure Details and Bill of Material.  
 Bars indicated thus 32 x 2-#4 etc. indicates 32 lines of bars with 2 lengths per line.  
 Spacing of a(E) bars shall be measured along the  $\text{\textcircled{C}}$  of structure.  
 All concrete wearing surfaces shall be placed prior to casting a backwall and/or approach slab.  
 See sheet 9 of 11 for fabric bearing pad details.  
 See sheet 4 of 11 for detail of D(E) bar.

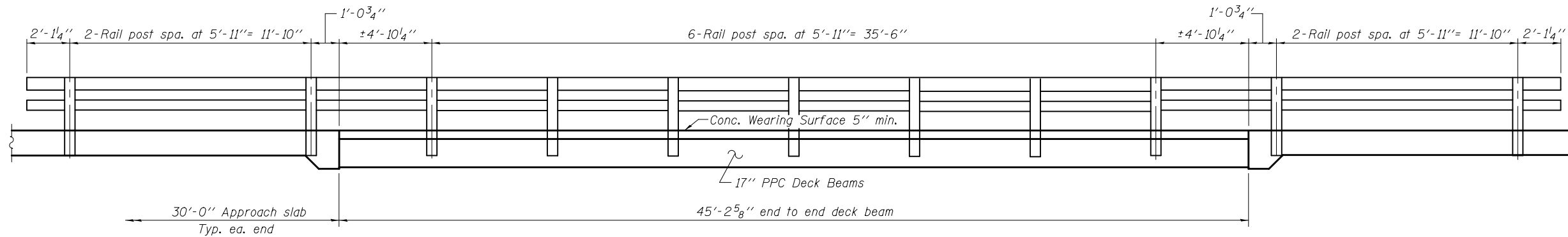


**CROSS SECTION**  
(Looking south)

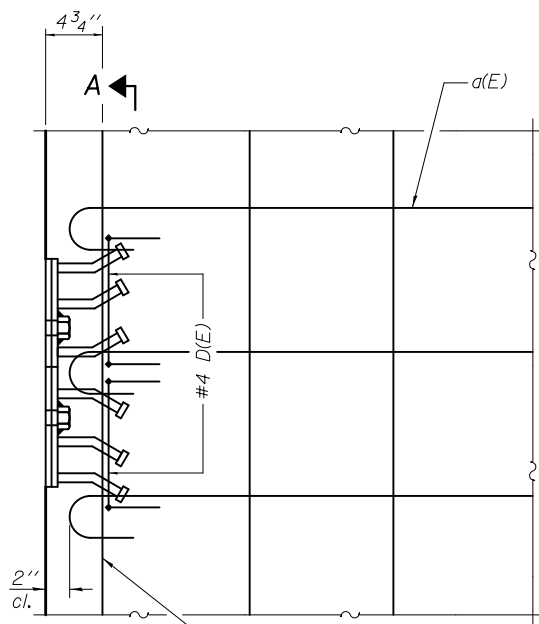
**MIN. BAR LAP**  
#4 bar = 2'-1"

|                               |   |                          |   |  |                           |              |                 |                 |              |  |
|-------------------------------|---|--------------------------|---|--|---------------------------|--------------|-----------------|-----------------|--------------|--|
| DESIGNED - Fess Teklehalmanot | EXAMINED - <i>Joanne F. [Signature]</i><br>ACTING ENGINEER OF BRIDGE DESIGN   | DATE - SEPTEMBER 3, 2014 | <b>STATE OF ILLINOIS<br/>DEPARTMENT OF TRANSPORTATION</b> | <b>SUPERSTRUCTURE<br/>STRUCTURE NO. 038-0184</b> | F.A.S. RTE. 1324          | SECTION 38BR | COUNTY IROQUOIS | TOTAL SHEETS 35 | SHEET NO. 16 |  |
| CHECKED - Ray Ahanchi         | PASSED - <i>Carl [Signature]</i><br>ACTING ENGINEER OF BRIDGES AND STRUCTURES | REVISED -                |   |  | CONTRACT NO. 66A72        |              |                 |                 |              |  |
| DRAWN - h.t. duong            |   | REVISED -                |   |  | ILLINOIS FED. AID PROJECT |              |                 |                 |              |  |
| CHECKED - FT/GRA              |   |                          |   |  | SHEET NO. 3 OF 11 SHEETS  |              |                 |                 |              |  |



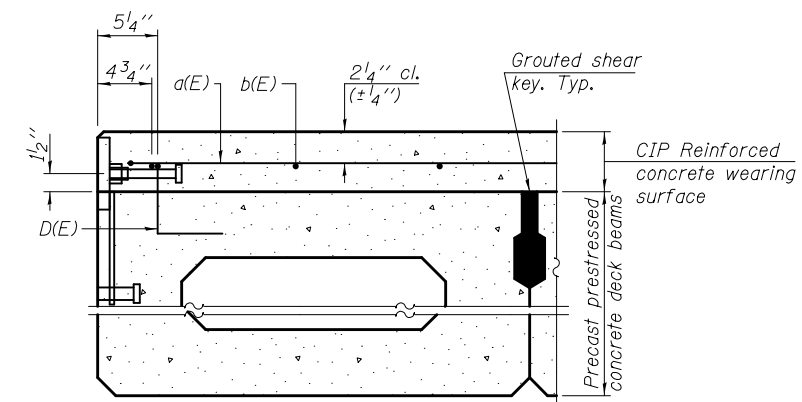


**RAIL POST SPACING**

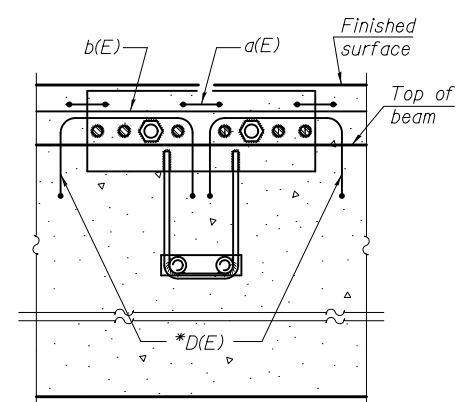


**PLAN**

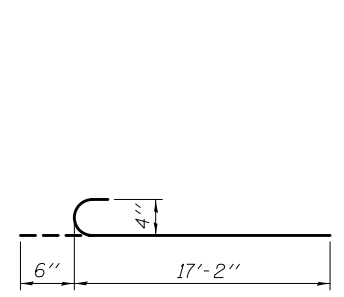
Notes:  
Formwork necessary for the wearing surface may be secured utilizing the bottom rail anchorage inserts and/or additional inserts cast into the beam.



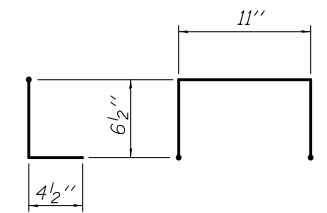
**SECTION THRU FASCIA BEAM**



**SECTION A-A**

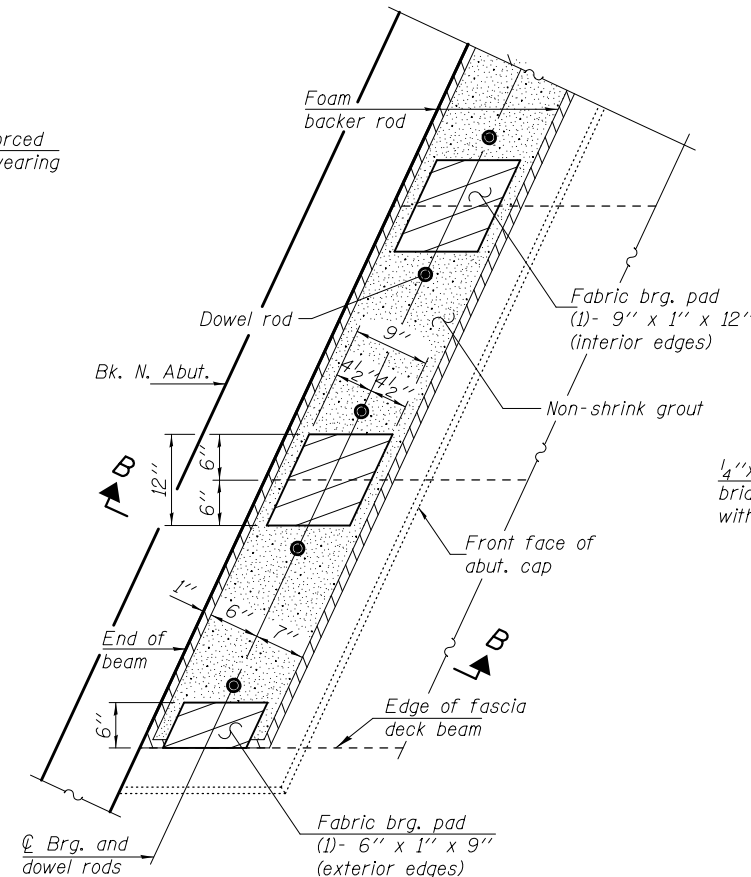


**BAR a(E)**



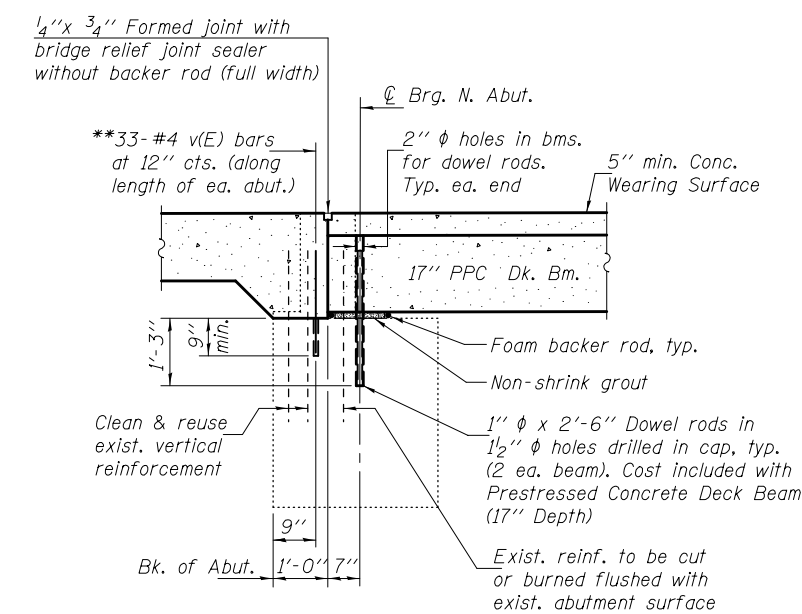
**BAR D(E)**

\*Place 2-#4 D(E) bars in beam at each post location as shown. D(E) bar included in cost of beam. See sheet 8 of 11.



**PLAN**

Notes:  
The bearing seat surfaces shall be adjusted by shimming the bearing to assure firm and even bearing prior to placement of grout. 2-1/8" fabric adjusting shims of the dimensions of the exterior bearing pad shown shall be provided for each bearing.  
Burn existing dowel rods flush with existing abutment surfaces. Cost included with Removal of Existing Superstructures.  
Existing vertical reinforcement bars extending into the new construction shall be cleaned, straightened and incorporated into the new construction. Cost included with Removal of Existing Superstructures.



**SECTION B-B**

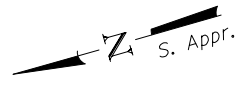
(Dimensions measured at Rt. L's)  
(South Abut. similar by rotation)

\*\*Epoxy grout v(E) bars in 9" min. drilled holes according to Section 584 of the Std. Specs.

**SUPERSTRUCTURE BILL OF MATERIAL**

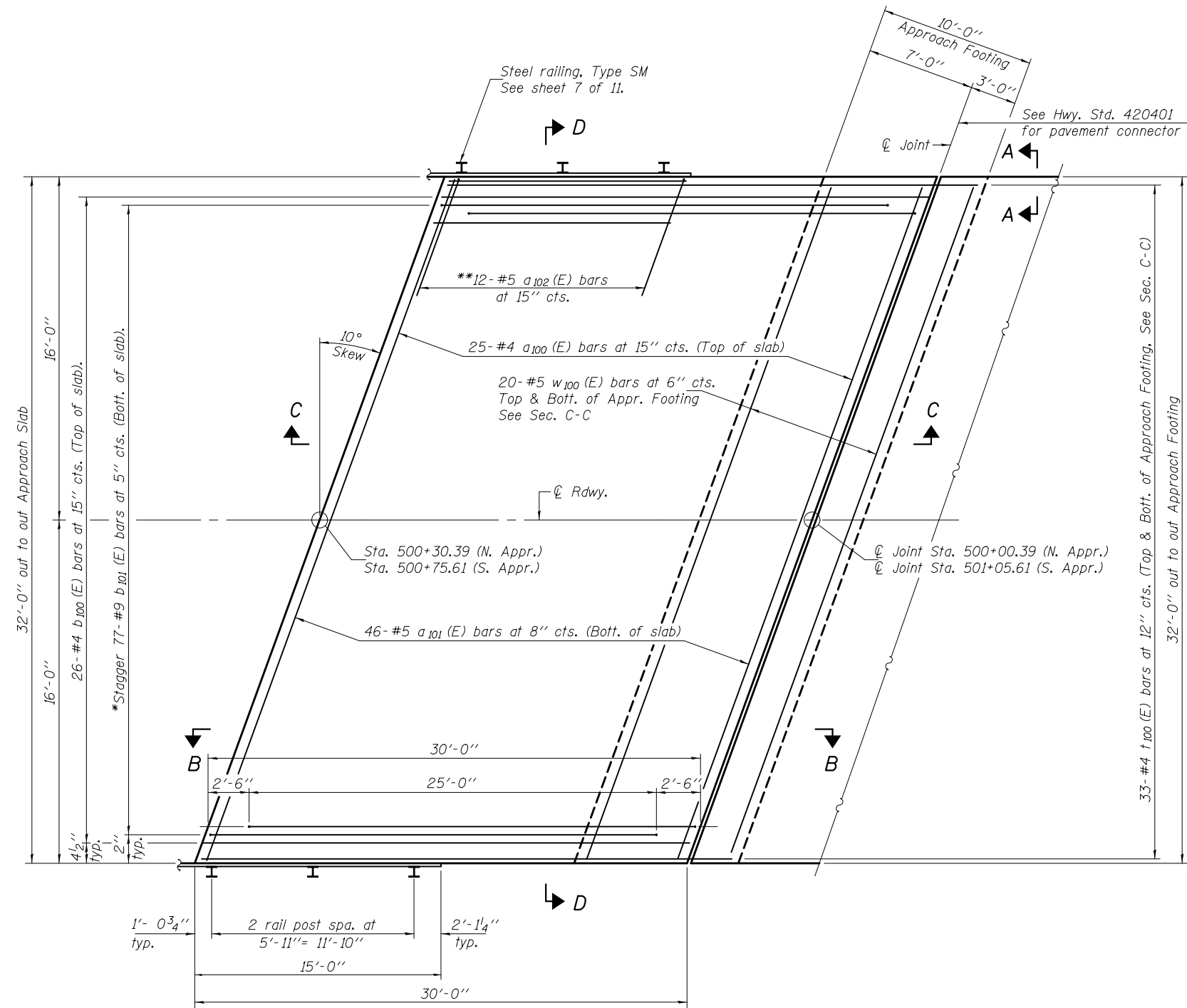
| Bar                              | No. | Size | Length  | Shape |
|----------------------------------|-----|------|---------|-------|
| a(E)                             | 92  | #4   | 17'-8"  |       |
| b(E)                             | 64  | #4   | 23'-9"  |       |
| v(E)                             | 66  | #4   | 2'-4"   |       |
| Reinforcement Bars, Epoxy Coated |     |      | Pound   | 2200  |
| Concrete Wearing Surface, 5"     |     |      | Sq. Yd. | 161   |

Bars indicated thus 32 x 2-#4 etc. indicates 32 line of bars with 2 lengths per line.



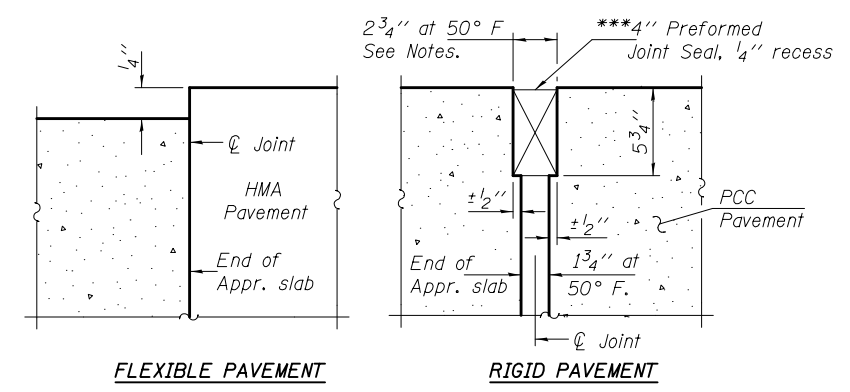
Notes:  
 See sheet 6 of 11 for Sections C-C & D-D and View B-B.  
 $a_{100}(E)$  and  $a_{101}(E)$  bar spacings measured along  $\varnothing$  Rdwy.  
 The joint opening shall be determined per Article 520.04 except that on jointless structures, the distance described as the bridge length between the nearest fixed bearings each way from the joint shall be taken as half the bridge length plus the approach slab length. The minimum dimension shall be  $1\frac{1}{2}$ " for installation purposes.

\*\*\*Cost included with Concrete Superstructure.

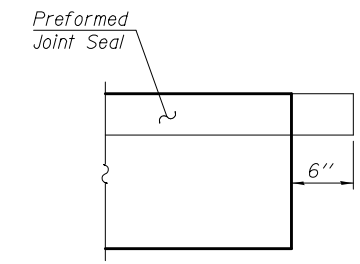


**PLAN**  
 (S. Approach shown - N. Approach similar by 180° rotation)

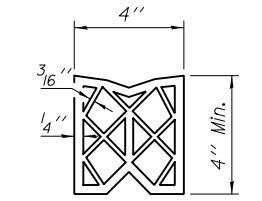
\*Tilt #9  $b_{101}(E)$  bars as required to maintain clearance.  
 \*\*Space between  $a_{100}(E)$  bars, typ. each end.



**DETAIL A**

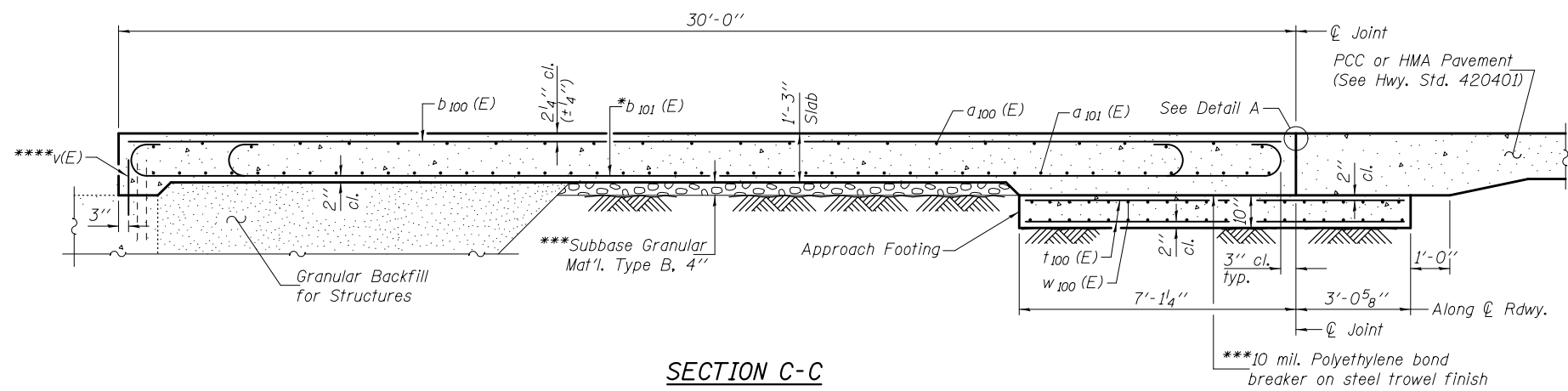


**VIEW A-A**



**PREFORMED JOINT SEAL**

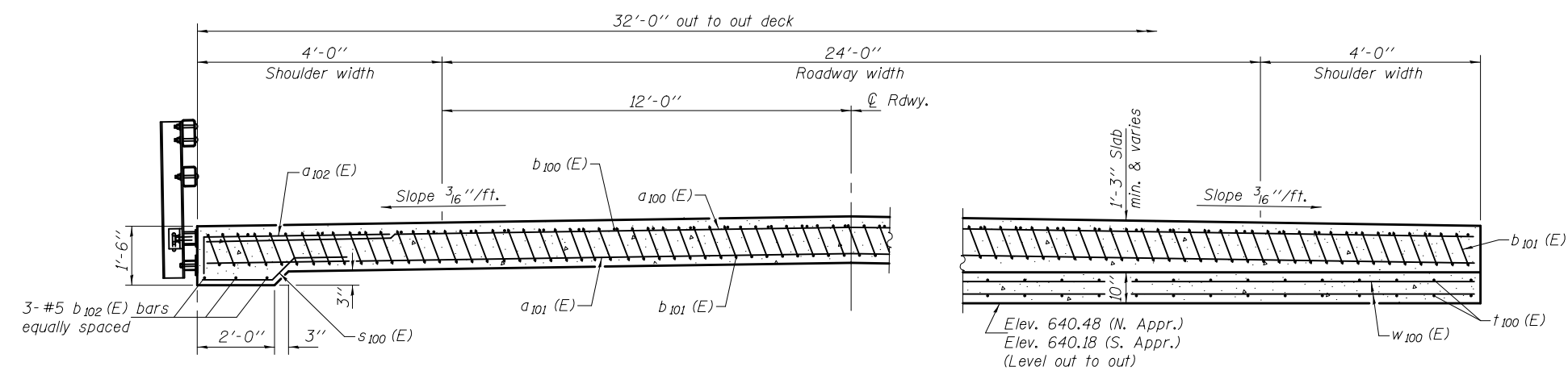
|                               |   |                          |   |  |                           |         |          |              |           |  |
|-------------------------------|---|--------------------------|---|--|---------------------------|---------|----------|--------------|-----------|--|
| DESIGNED - Fess Teklehaimanot | EXAMINED - <i>Joanne F. [Signature]</i><br>ACTING ENGINEER OF BRIDGE DESIGN   | DATE - SEPTEMBER 3, 2014 | <b>STATE OF ILLINOIS<br/>DEPARTMENT OF TRANSPORTATION</b> | <b>BRIDGE APPROACH SLAB DETAILS<br/>STRUCTURE NO. 038-0184</b> | F.A.S. RTE.               | SECTION | COUNTY   | TOTAL SHEETS | SHEET NO. |  |
| CHECKED - Ray Ahanchl         | PASSED - <i>Carl [Signature]</i><br>ACTING ENGINEER OF BRIDGES AND STRUCTURES | REVISED -                |   |  | 1324                      | 38BR    | IROQUOIS | 35           | 18        |  |
| DRAWN - h.t. duong            |   | REVISED -                |   |  | CONTRACT NO. 66A72        |         |          |              |           |  |
| CHECKED - FT/GRA              |   |                          |   |  | ILLINOIS FED. AID PROJECT |         |          |              |           |  |
|                               |   |                          |   |  | SHEET NO. 5 OF 11 SHEETS  |         |          |              |           |  |



**SECTION C-C**

Notes:  
 See sheet 5 of 11 for Detail A.  
 Approach slab shall be paid for as Concrete Superstructure.  
 Approach footing concrete shall be paid for as Concrete Structures.  
 Reinforcement shall be paid for as Reinforcement Bars, Epoxy Coated.  
 The approach footing maximum applied service bearing pressure (Qmax) = 2.0 ksf.  
 Cost of excavation for approach footing included with Concrete Structures.  
 For Granular Backfill for Structures and drainage treatment details, see sheet 2 of 11.

\*Tilt #9 b101(E) bars as required to maintain clearance.  
 \*\*\*Cost included with Concrete Superstructure.  
 \*\*\*\*Epoxy grout v(E) bars. See sheet 4 of 11.

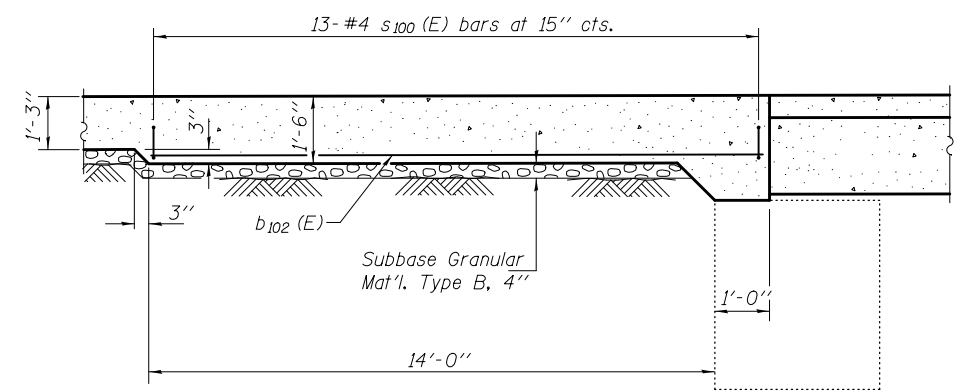
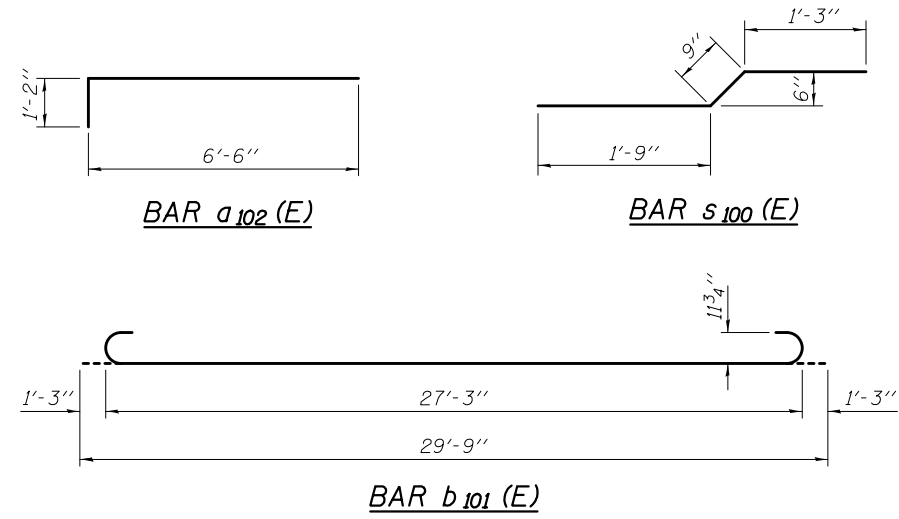


**SECTION D-D**

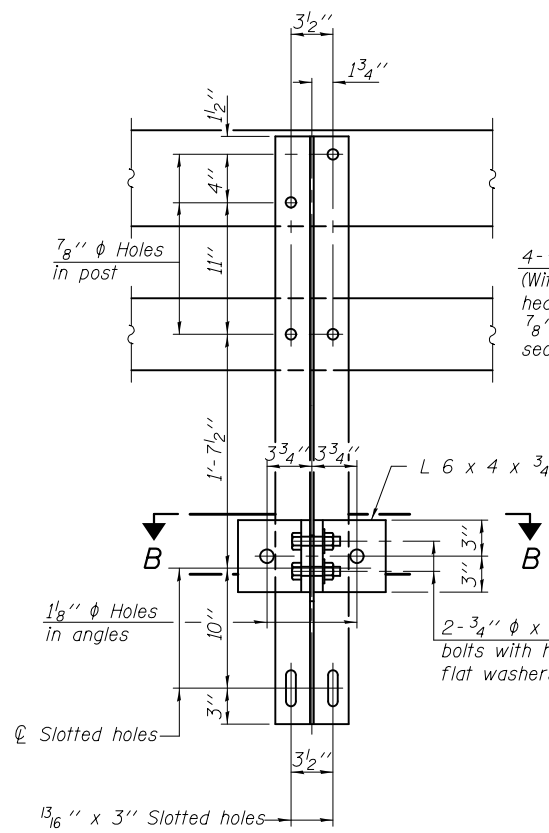
(See Plan for dimensions not shown)

**TWO APPROACHES  
 BILL OF MATERIAL**

| Bar                              | No. | Size | Length  | Shape |
|----------------------------------|-----|------|---------|-------|
| a100 (E)                         | 50  | #4   | 32'-1"  | —     |
| a101 (E)                         | 92  | #5   | 32'-1"  | —     |
| a102 (E)                         | 48  | #6   | 7'-8"   | ┌     |
| b100 (E)                         | 52  | #4   | 29'-8"  | —     |
| b101 (E)                         | 154 | #9   | 29'-9"  | ┌     |
| b102 (E)                         | 12  | #5   | 14'-8"  | —     |
| s100 (E)                         | 52  | #4   | 3'-9"   | ┌     |
| t100 (E)                         | 132 | #4   | 9'-10"  | —     |
| w100 (E)                         | 80  | #5   | 32'-2"  | —     |
| Concrete Superstructure          |     |      | Cu. Yd. | 95.5  |
| Concrete Structures              |     |      | Cu. Yd. | 20.1  |
| Reinforcement Bars, Epoxy Coated |     |      | Pound   | 25180 |



**VIEW B-B**



4- 3/4" φ x 6" Round Head Bolts (With slot or approved recess in head) with locknut & flat washer. 7/8" φ holes in hollow structural section may be drilled in the field.

13/16" x 5 1/2" slotted hole in post  
13/16" φ holes in angles

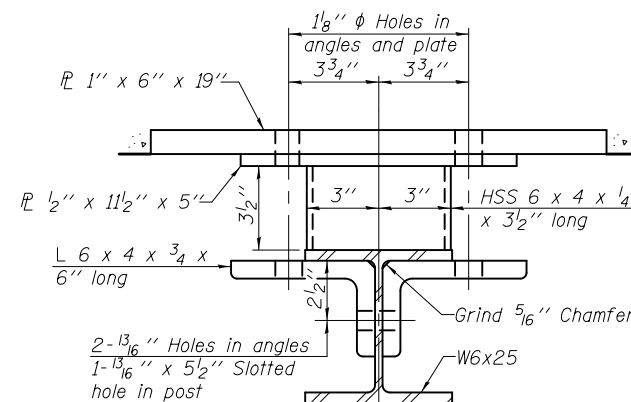
2- 3/4" φ x 3 1/4" H.S. bolts with hex nut & flat washers

2- 1" φ x 7 3/4" AASHTO M-164 anchor bolts with flat washer and lockwasher

2- 5/8" φ x 5 3/4" cap screws with flat washer

SECTION AT RAIL POST

13/16" x 3" Slotted holes



2- 13/16" Holes in angles  
1- 13/16" x 5 1/2" Slotted hole in post

SECTION AT RAIL SPLICE

1/8" x 2 1/2" Slotted Holes in hollow structural section

5/8" φ x 1 3/4" Cap Screw with flat washer & 3/4" φ XS pipe spacer, 1/2" long.

1/8" x 7" x 6" Fabric reinforced elastomeric pad

1/2" x 7" x 6"

RAIL SPLICE CONNECTION AT EXPANSION JT.

Locknut

5/8" φ x 1 3/4" Cap Screw with flat washer

3/4" φ Holes in tubing

SECTION AT RAIL SPLICE

1/8" x 2 1/2" Slotted Holes in hollow structural section

5/8" φ x 1 3/4" Cap Screw with flat washer

3/4" φ Holes in tubing

1/8" x 2 1/2" Slotted Holes in hollow structural section

5/8" φ x 1 3/4" Cap Screw with flat washer

3/4" φ Holes in tubing

1/8" x 2 1/2" Slotted Holes in hollow structural section

5/8" φ x 1 3/4" Cap Screw with flat washer

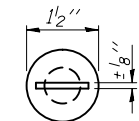
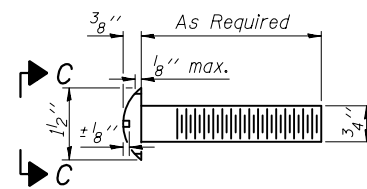
3/4" φ Holes in tubing

1/8" x 2 1/2" Slotted Holes in hollow structural section

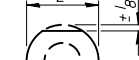
5/8" φ x 1 3/4" Cap Screw with flat washer

3/4" φ Holes in tubing

DETAIL OF 3/4" φ ROUND HEAD BOLT



With Slot



VIEW C-C

VIEW C-C

VIEW C-C

VIEW C-C

VIEW C-C

VIEW C-C

VIEW C-C

VIEW C-C

VIEW C-C

VIEW C-C

VIEW C-C

VIEW C-C

VIEW C-C

VIEW C-C

VIEW C-C

VIEW C-C

VIEW C-C

VIEW C-C

VIEW C-C

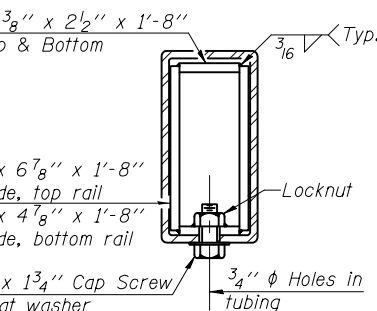
VIEW C-C

VIEW C-C

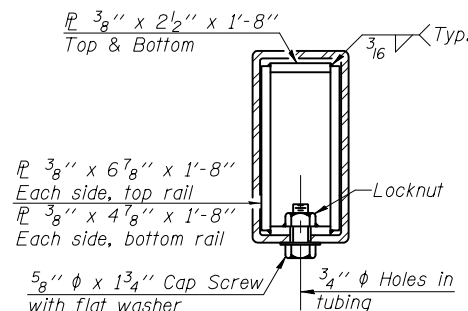
VIEW C-C

VIEW C-C

VIEW D-D



SECTION AT RAIL SPLICE



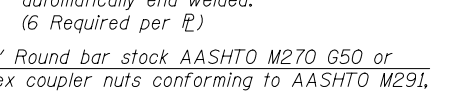
PLAN-BOTT. SPLICE AT TYPICAL



VIEW E-E



ANCHOR DEVICE



BILL OF MATERIAL

| Item                   | Unit | Quantity |
|------------------------|------|----------|
| Steel Railing, Type SM | Foot | 151.0    |

\*1" H.S. Nut AASHTO M 164 welded to PL  
Cast 1" voids behind each nut  
3/4" φ x 6" Granular or solid flux filled headed studs conforming to article 1006.32 of the Std. Specs. automatically end welded. (6 Required per PL)  
\*1" Round bar stock AASHTO M270 G50 or hex coupler nuts conforming to AASHTO M291, Grade A - 3" long welded to #3 bar. Tap pipe for 5/8" φ cap screw.

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

Notes:  
All field drilled holes shall be coated with an approved zinc rich paint before erection.  
For multi-span bridges, sufficient 1/4" x 6" x 1'-2" galvanized steel shims shall be provided to align rail between adjacent spans. Cost included with Steel Railing, Type SM.  
Steel rail elements shall be galvanized according to Article 509.05 of the Standard Specifications.  
\*\* The studs of the anchor devices shall be placed below the top reinforcement bars and the outermost longitudinal reinforcement bar shall be placed directly above the studs of the rail post anchor device.  
For rail post spacing, see sheets 3 & 4 of 11.

R-34CWS

7-1-10

(6'-3" Maximum Post Spacing) (5" minimum to 7 1/8" maximum CWS thickness)

DESIGNED - Fess Teklehaimanot  
CHECKED - Ray Ahanchi  
DRAWN - h.t. duong  
CHECKED - FT/GRA

EXAMINED  
PASSED  
ACTING ENGINEER OF BRIDGE DESIGN  
ACTING ENGINEER OF BRIDGES AND STRUCTURES

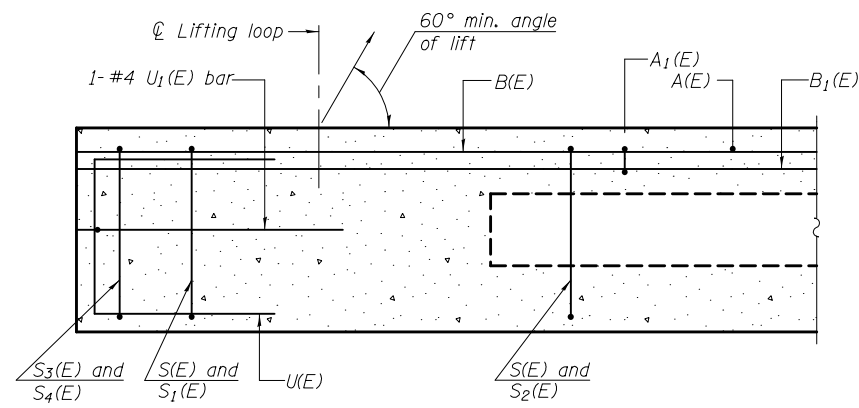
DATE - SEPTEMBER 3, 2014  
REVISED -  
REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

STEEL RAILING, TYPE SM WITH CONCRETE WEARING SURFACE  
STRUCTURE NO. 038-0184

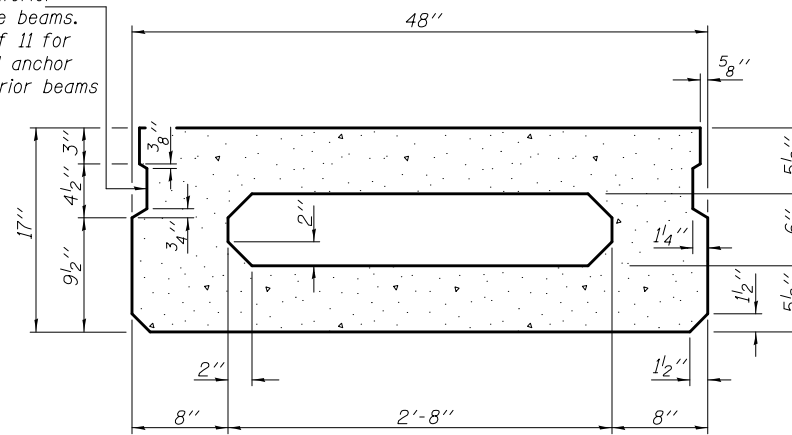
SHEET NO. 7 OF 11 SHEETS

F.A.S. RTE. SECTION COUNTY TOTAL SHEETS SHEET NO.  
1324 38BR IROQUOIS 35 20  
CONTRACT NO. 66A72  
ILLINOIS FED. AID PROJECT

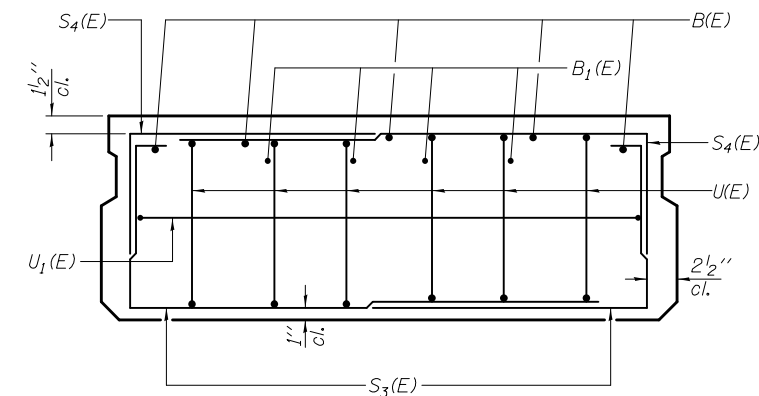


**SECTION A-A**

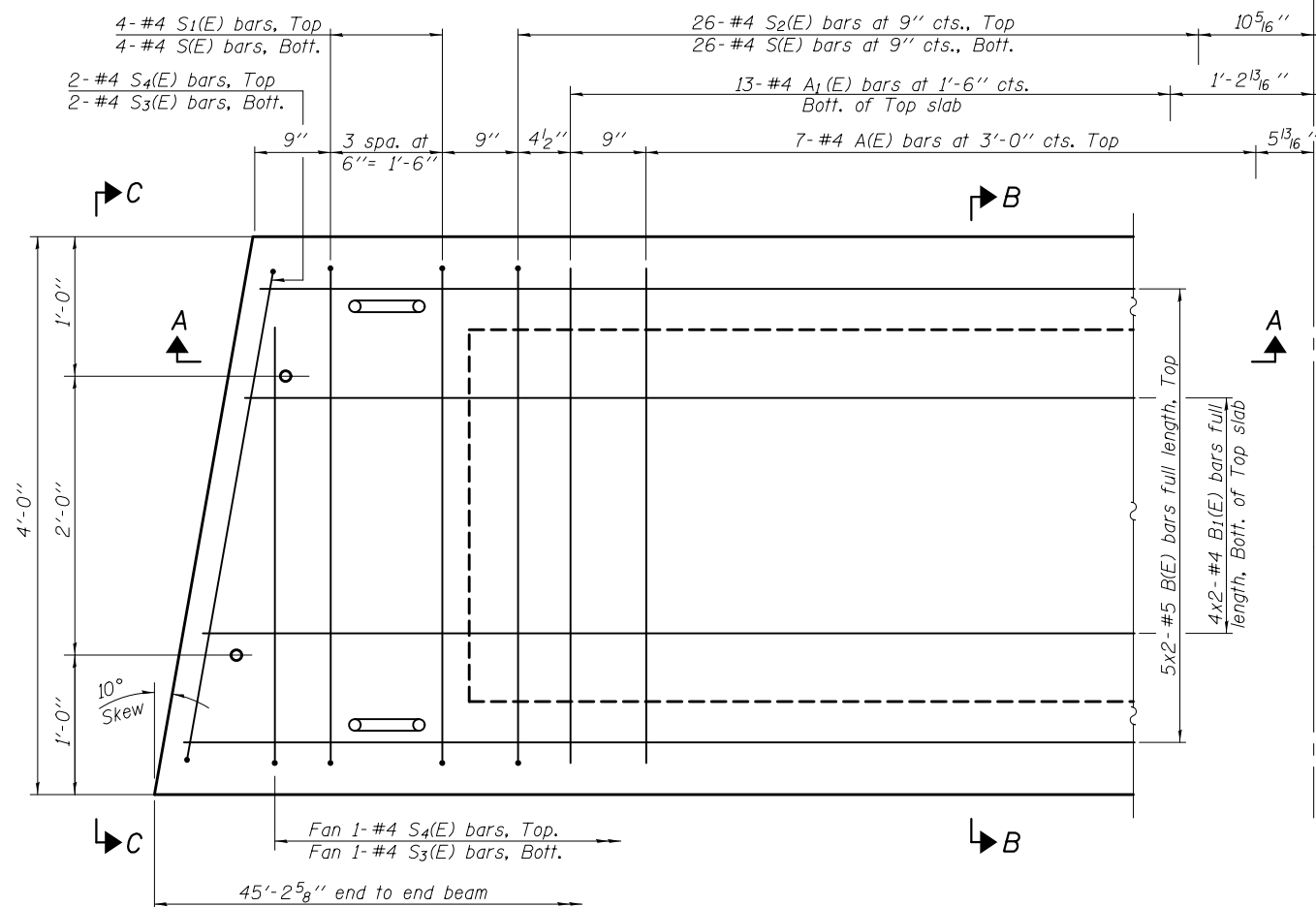
Omit key on exterior face of outside beams. See sheet 4 of 11 for location of rail anchor device on exterior beams



**SECTION B-B**  
(Showing dimensions)

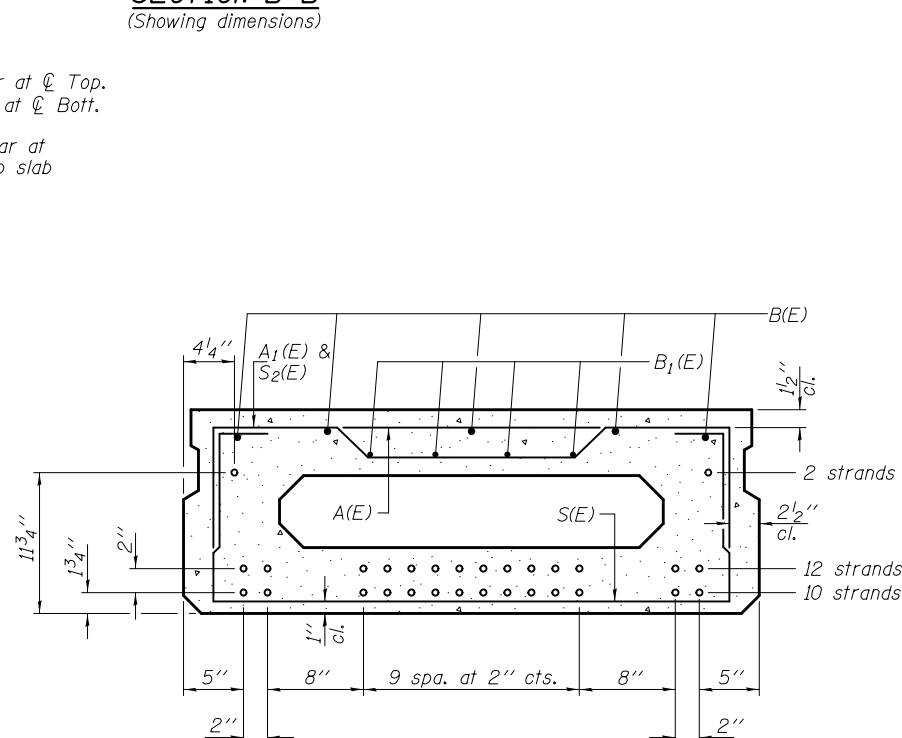


**VIEW C-C**



**PLAN VIEW**

Note: Spacing of S(E) and S2(E) bars may be adjusted up to 4" in the immediate area of the transverse tie diaphragms to miss the block outs for the transverse ties.



**SECTION B-B**

(Showing reinforcement and permissible strand locations)

Note: Place the number of strands specified in each row symmetrically about the centerline of beam in the permissible strand locations shown.

**BAR LIST**  
**ONE BEAM ONLY**  
(For information only)

| Bar   | No. | Size | Length | Shape |
|-------|-----|------|--------|-------|
| A(E)  | 14  | #4   | 3'-7"  | —     |
| A1(E) | 27  | #4   | 3'-10" | —     |
| B(E)  | 10  | #5   | 23'-9" | —     |
| B1(E) | 8   | #4   | 23'-6" | —     |
| D(E)  | 14  | #4   | 2'-9"  | ┌     |
| S(E)  | 61  | #4   | 6'-9"  | ┌     |
| S1(E) | 8   | #4   | 5'-3"  | ┌     |
| S2(E) | 53  | #4   | 5'-6"  | ┌     |
| S3(E) | 6   | #4   | 4'-5"  | ┌     |
| S4(E) | 6   | #4   | 3'-8"  | ┌     |
| U(E)  | 12  | #5   | 3'-8"  | ┌     |
| U1(E) | 2   | #4   | 6'-8"  | ┌     |

**MINIMUM BAR LAP**

#4 bar = 2'-0"  
#5 bar = 2'-6"

Note: See sheet 9 of 11 for additional details and Bill of Material. See sheet 4 of 11 for detail of D(E) bars.

\* D(E) bars located on exterior face of outside beams only. See sheet 4 of 11.

DESIGNED - Fess Teklehalmanot  
CHECKED - Ray Ahanchi  
DRAWN - h.t. duong  
CHECKED - FT/GRA

EXAMINED  
PASSED  
ACTING ENGINEER OF BRIDGE DESIGN  
ACTING ENGINEER OF BRIDGES AND STRUCTURES

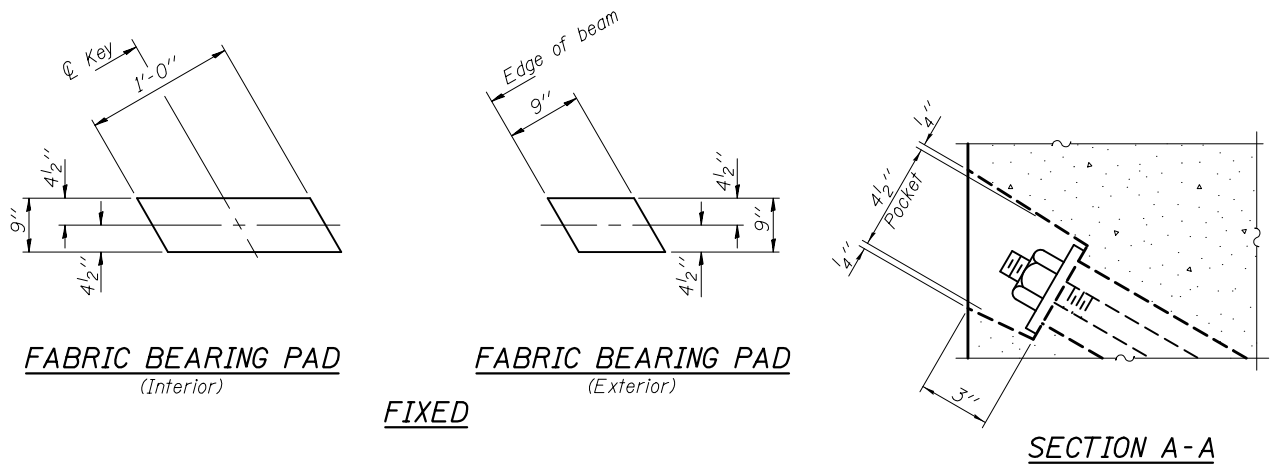
DATE - SEPTEMBER 3, 2014  
REVISED  
REVISED

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

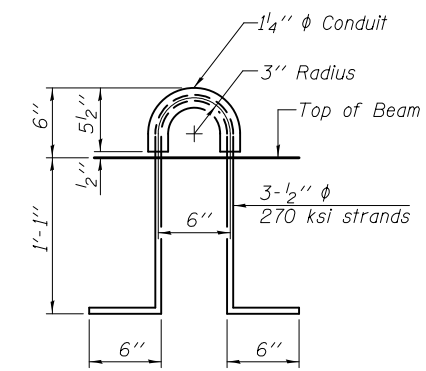
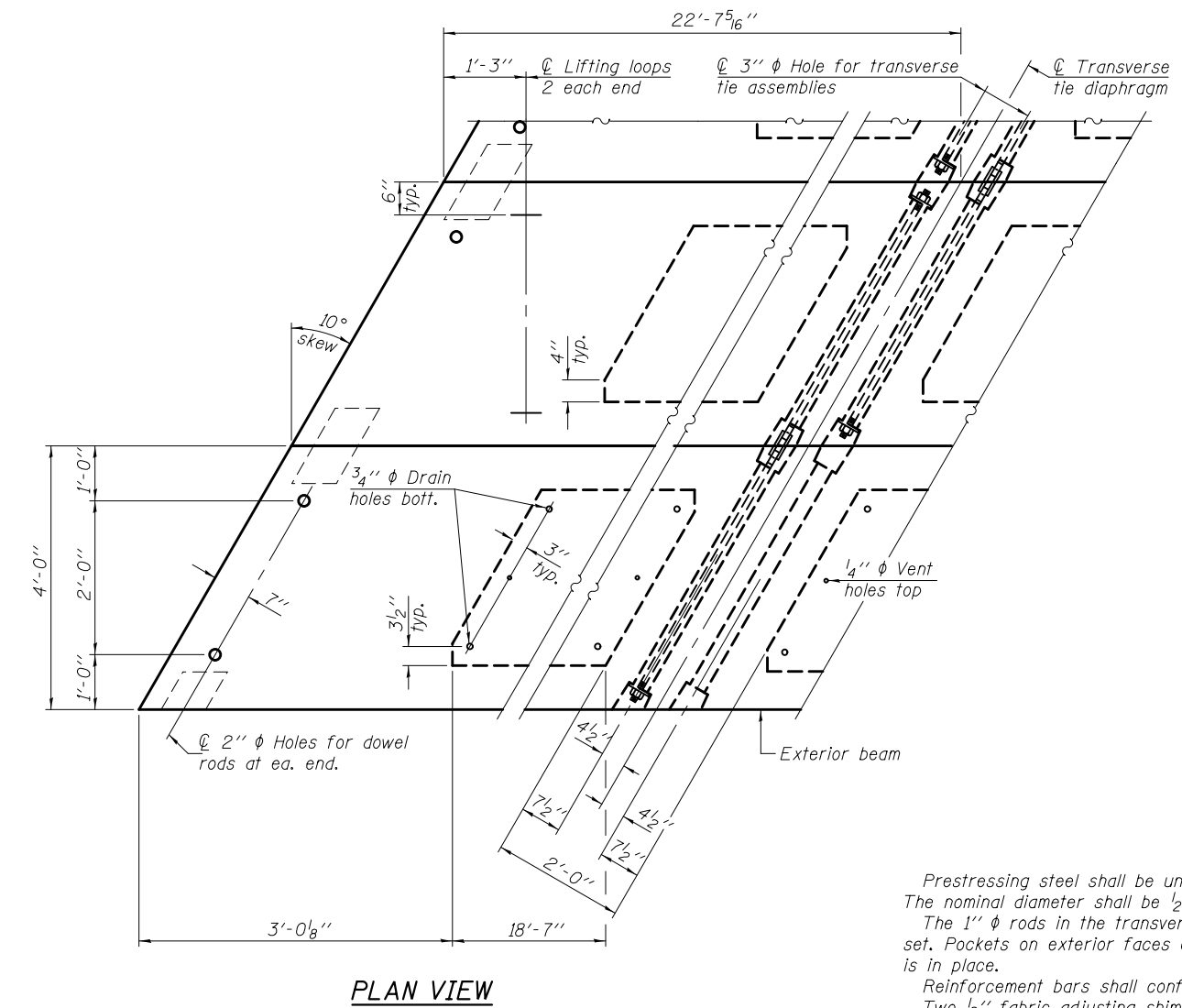
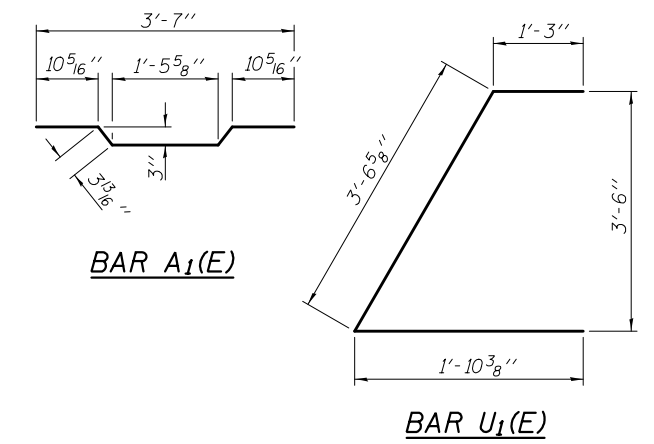
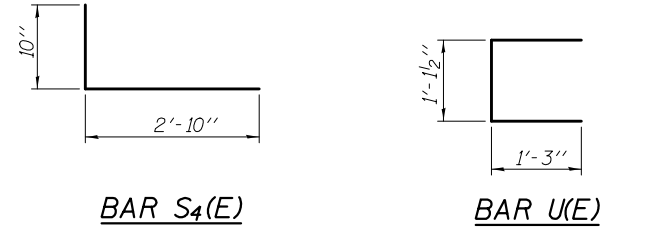
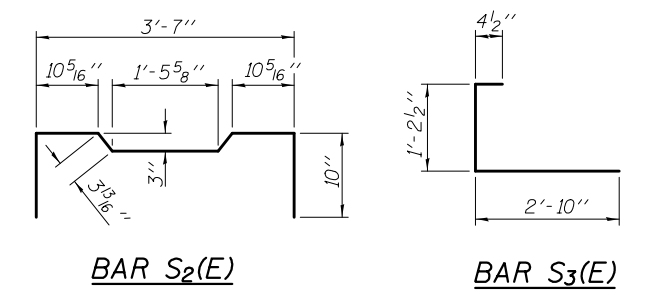
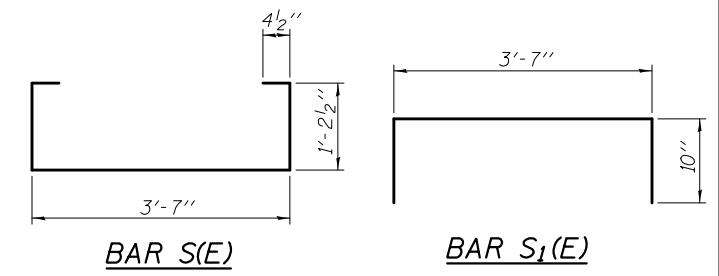
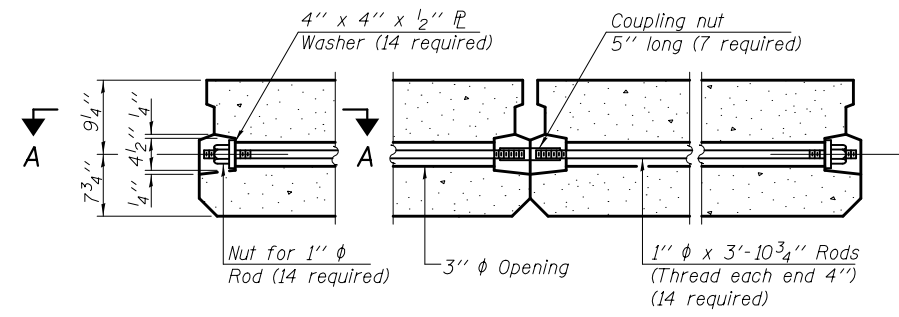
**17" x 48" PPC DECK BEAM**  
**STRUCTURE NO. 038-0184**

SHEET NO. 8 OF 11 SHEETS

| F.A.S. RTE.               | SECTION | COUNTY   | TOTAL SHEETS | SHEET NO.          |
|---------------------------|---------|----------|--------------|--------------------|
| 1324                      | 38BR    | IROQUOIS | 35           | 21                 |
|                           |         |          |              | CONTRACT NO. 66A72 |
| ILLINOIS FED. AID PROJECT |         |          |              |                    |



Note: All bearing pads shall be 1" thick.



**NOTES**

Prestressing steel shall be uncoated high strength, low relaxation 7-wire strand, Grade 270. The nominal diameter shall be 1/2" and the nominal cross-sectional area shall be 0.153 sq. in. The 1" phi rods in the transverse tie assembly shall be tightened to a snug fit and the threads set. Pockets on exterior faces of bridge shall be filled with grout after transverse tie assembly is in place. Reinforcement bars shall conform to ASTM A 706, Grade 60. Two 1/8" fabric adjusting shims of the dimensions of the exterior bearing pad shall be provided for each bearing pad location. A minimum 2 1/2" phi lifting pin shall be used to engage the lifting loops during handling. Corrosion Inhibitor, per Article 1020.05(b)(12) and 1021.06 of the Standard Specifications, shall be used in the concrete for precast prestressed concrete deck beams. Compressive strength of prestressed concrete, f'c, shall be 6000 psi. Compressive strength of prestressed concrete at release, f'ci, shall be 5000 psi.

**BILL OF MATERIAL**

|   |         |      |
|---|---------|------|
| Precast Prestressed Concrete Deck Beams (17" depth) | Sq. Ft. | 1447 |
|---|---------|------|

PD-1748-LD 7-1-10

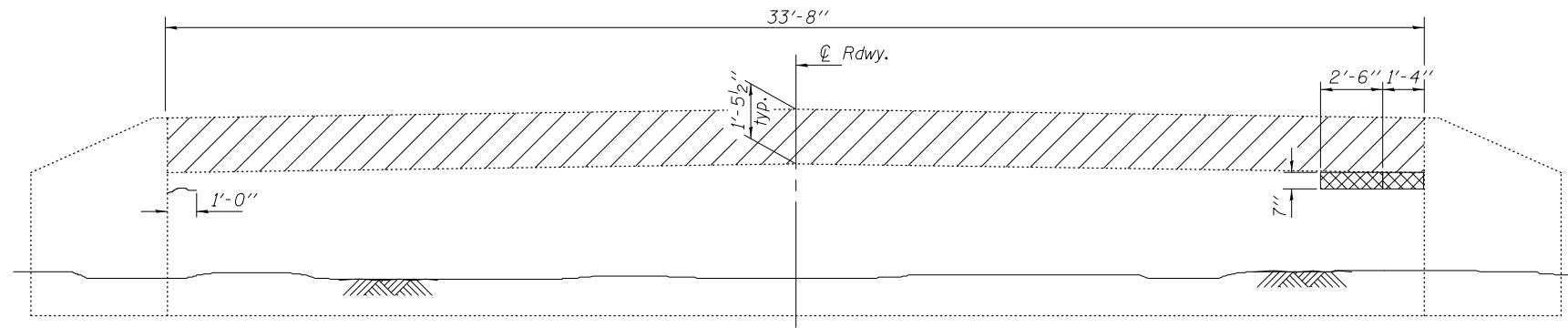
|                             |   |                          |
|-----------------------------|---|--------------------------|
| DESIGNED - Fess Teklehmanot | EXAMINED - <i>Joanne F. [Signature]</i>   | DATE - SEPTEMBER 3, 2014 |
| CHECKED - Ray Ahanchi       | PASSED - <i>Carl [Signature]</i>          | REVISED -                |
| DRAWN - h.t. duong          | ACTING ENGINEER OF BRIDGES AND STRUCTURES | REVISED -                |
| CHECKED - FT/GRA            |   |                          |

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

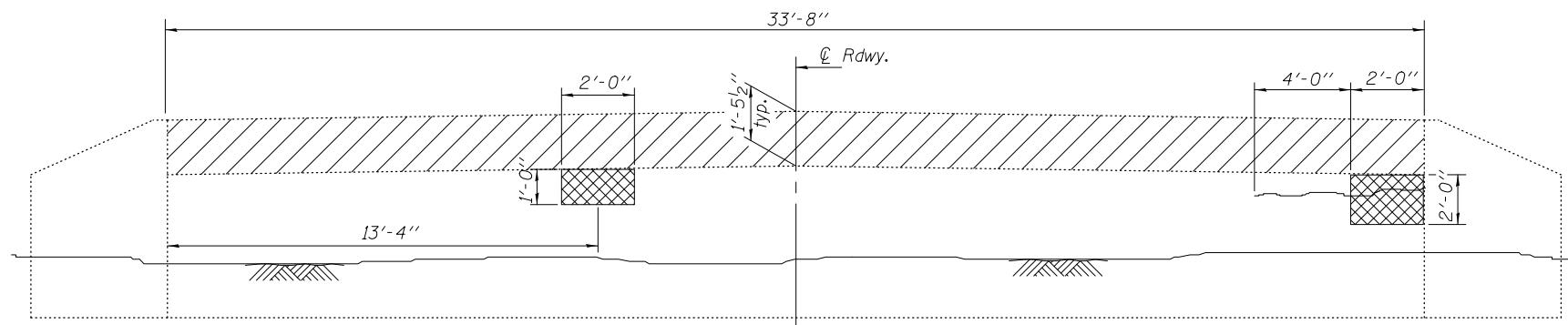
**17" x 48" PPC DECK BEAM DETAILS**  
**STRUCTURE NO. 038-0184**

SHEET NO. 9 OF 11 SHEETS

|                           |         |          |              |           |
|---------------------------|---------|----------|--------------|-----------|
| F.A.S. RTE.               | SECTION | COUNTY   | TOTAL SHEETS | SHEET NO. |
| 1324                      | 38BR    | IROQUOIS | 35           | 22        |
| CONTRACT NO. 66A72        |         |          |              |           |
| ILLINOIS FED. AID PROJECT |         |          |              |           |



**NORTH ABUTMENT - ELEVATION**  
(North face)



**SOUTH ABUTMENT - ELEVATION**  
(South face)

**LEGEND**

- Concrete Removal
- Structural Repair of Concrete (Depth ≤ 5')
- Epoxy Crack Injection

**TWO ABUTMENTS  
BILL OF MATERIAL**

| Item                                       | Unit    | Quantity |
|--|---------|----------|
| Structural Repair of Concrete (Depth ≤ 5') | Sq. Ft. | 8.2      |
| Epoxy Crack Injection                      | Foot    | 7        |
| Concrete Removal                           | Cu. Yd. | 3.8      |

|                               |   |                          |
|-------------------------------|---|--------------------------|
| DESIGNED - Fess Teklehaimanot | EXAMINED - <i>Joanne F. [Signature]</i><br>ACTING ENGINEER OF BRIDGE DESIGN   | DATE - SEPTEMBER 3, 2014 |
| CHECKED - Ray Ahanchi         | PASSED - <i>Carl [Signature]</i><br>ACTING ENGINEER OF BRIDGES AND STRUCTURES | REVISED -                |
| DRAWN - h.t. duong            |   | REVISED -                |
| CHECKED - FT/GRA              |   |                          |

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**ABUTMENT REPAIR DETAILS  
STRUCTURE NO. 038-0184**

SHEET NO. 10 OF 11 SHEETS

|                           |         |          |              |           |
|---------------------------|---------|----------|--------------|-----------|
| F.A.S. RTE.               | SECTION | COUNTY   | TOTAL SHEETS | SHEET NO. |
| 1324                      | 38BR    | IROQUOIS | 35           | 23        |
| CONTRACT NO. 66A72        |         |          |              |           |
| ILLINOIS FED. AID PROJECT |         |          |              |           |



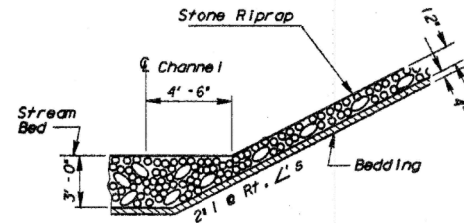


STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

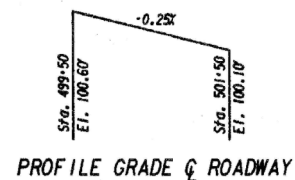
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|---------------------|---------|----------|--------------------|-----------|
| ROUTE NO.           | SECTION | COUNTY   | TOTAL SHEETS       | SHEET NO. |
| S.B.1.25            | 38 BR   | IROQUOIS | 22                 | 7         |
| F.A.                |         |          |                    |           |
| FED. ROAD DIST. NO. | 3       | ILLINOIS | FED. AID PROJECT - |           |

SHEET NO. 1  
4 SHEETS

B.M. 2- Chiseled "C" Cut on N.E. Corner of Old Railroad Bridge Foundation @ Sta. 500+18, 105' Right Elevation 98.14'. Existing Structure #038-0113 Built as Part of S.B.1. Rte. 25 Section 38B at Sta. 500+60 in 1921. R.C. thru Girders on Closed Abutments, 33'-0" Back to Back and 23'-2" Out to Out of Deck, to be Replaced by P.P.C. Deck Beams on Open Abutments. Contractor to Remove Existing Structure as Necessary to Accomodate New Bridge. Traffic to be Detoured. Salvage - None



RIPRAP ANCHOR DETAIL



PROFILE GRADE & ROADWAY

DESIGN SPECIFICATIONS

1983 AASHTO & 1984 & 1985 Interim HS20-44 Loading

DESIGN STRESSES

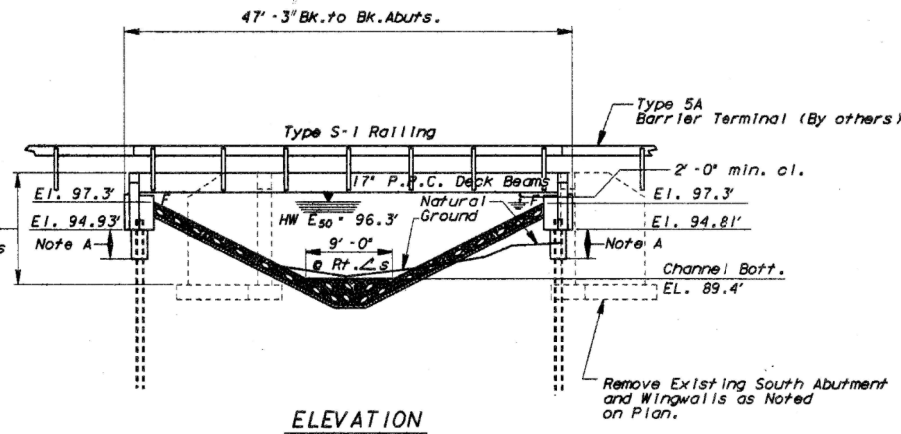
FIELD UNITS  
f'c = 3,500 p.s.i.  
f'y = 60,000 p.s.i.

PRECAST PRESTRESSED UNITS

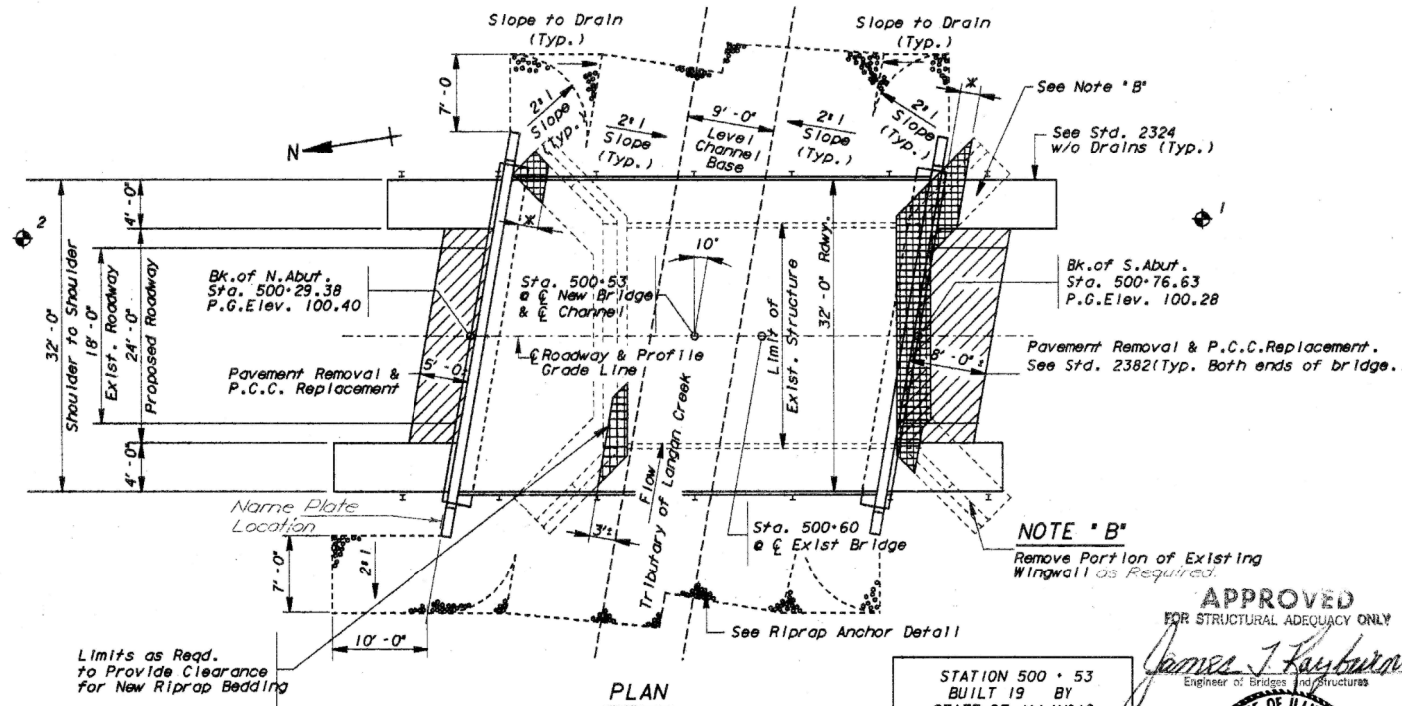
f'c = 5,000 p.s.i.  
f'ci = 4,800 p.s.i.  
f's = 270,000 p.s.i. (1/2" strands)  
f'sl = 189,000 p.s.i. (1/2" strands)  
Allow 25'/sq. ft. for future wearing surface.

|         |     |
|---------|-----|
| Design  | DJ  |
| Checked | WK  |
| Drawing | AJM |
| Checked | DJ  |

Remove Portion of Existing North Abutment and Wingwalls above El. 89.0' except where noted otherwise on plan.



ELEVATION



PLAN

Limits as Reqd. to Provide Clearance for New Riprap Bedding

LEGEND

- Indicates Area of Complete Removal of Existing Substructure.
- x Denotes 2'-0" Minimum Clear of New Abutment.
- Denotes Soil Boring
- Denotes Pavement Removal

STATION 500+53  
BUILT 19 BY  
STATE OF ILLINOIS  
S.B.1. RT. 25 SEC. 38 BR  
LOADING HS-20  
STR. NO. 038-0184

NAME PLATE  
(SEE STD. 2113)

WATERWAY INFORMATION

|   |       |      |         |         |         |          |           |       |       |  |
|---|-------|------|---------|---------|---------|----------|-----------|-------|-------|--|
| Drainage Area = 6.07 Sq. Mi. Low Grade Elev. = 99.53 At Sta. 502+25 |       |      |         |         |         |          |           |       |       |  |
| Flood   | Freq. | 0    | Opening | Sq. Ft. | Natural | Head-Ft. | Headwater | EL    |       |  |
| Design  | 50    | 993  | 157     | 157     | 96.3'   | 1.47     | 1.46      | 97.77 | 97.76 |  |
| Base  | 100   | 1140 | 163     | 165     | 96.5'   | 1.83     | 1.76      | 98.33 | 98.26 |  |
| Overtopping   |       |      |         |         |         |          |           |       |       |  |
| Max. Calc.  | 500   | 1480 |         | 184     | 97.0    |          | 2.44      |       | 99.44 |  |

APPROVED  
FOR STRUCTURAL ADEQUACY ONLY

James J. Farber  
Engineer of Bridges and Structures



GENERAL NOTES

- See Sheet 22 for Boring Data.
- Reinforcement bars shall conform to the requirements of AASHTO M31 or M-53 Grade 60.
- The top surface of the beams shall be finished in accordance with Article 505.06 of the Standard Specification except that the surface shall not be roughened by brooming. The finished surface shall be free of depressions or high spots with sharp corners, and the top edge of keys shall be rounded or chamfered a minimum of 1/4".
- A Calcium Nitrite Corrosion Inhibitor, as covered in the Special Provisions, shall be used in the concrete for precast prestressed concrete deck beams.
- Layout of stone riprap may be varied in the field to suit ground conditions as directed by the Engineer.
- The contractor shall drive ONE test pile in a permanent location at the North Abutment as directed by the Engineer before ordering the remainder of piles.

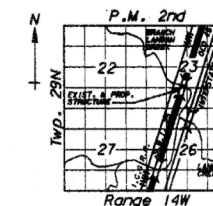
TOTAL BILL OF MATERIAL

| Item                                | Unit     | Super. | Sub. | Total |
|-------------------------------------|----------|--------|------|-------|
| Removal of Existing Structures      | Each     |        | 1    | 1     |
| Structure Excavation                | Cu. Yd.  |        | 60   | 60    |
| Steel Piles (HP 10 X 42)            | Lin. Ft. |        | 429  | 429   |
| Test Pile, Steel (HP 10 X 42)       | Each     |        | 1    | 1     |
| Class X Concrete                    | Cu. Yd.  |        | 29.8 | 29.8  |
| Reinforcement Bars                  | Pounds   |        | 3440 | 3440  |
| P.P. Concrete Deck Beams, (17" Dp.) | Sq. Ft.  | 1415   |      | 1415  |
| Waterproofing Membrane System       | Sq. Yd.  | 164    |      | 164   |
| Bituminous Conc. Surf. Crse. C.I.1  | Tons     | 21     |      | 21    |
| Steel Railing, Type S-1             | Lin. Ft. | 90     |      | 90    |
| Stone Rip Rap                       | Sq. Yd.  |        | 285  | 285   |
| Name Plates                         | Each     |        | 1    | 1     |
| Pavement Rem. & P.C.C. Rep. T2 10'  | Sq. Yd.  |        | 36   | 36    |
| P.C. Mortar Fairing Course          | Lin. Ft. |        | 310  | 310   |
| Class X Concrete Superstructure     | Cu. Yds. |        | 3.6  | 3.6   |

\* Remove entire Existing Superstructure and Portions of Existing Substructure as shown in PLAN and ELEVATION. Pavement Removal between backs of existing and proposed abutments is cast incidental to Removal of Existing Structure.

NOTE "A"

Use Class X Concrete Encasement; 1'-9" Dia. x 3'-0" with W.W. Fabric For Details See Abutment Dwg. Sht. 4 of 4.



LOCATION SKETCH

GENERAL PLAN & ELEVATION  
S.B.1. ROUTE 25  
OVER Tributary of Langan Creek  
SECTION 38 BR  
IROQUOIS COUNTY  
STATION 500+53

1101,63143975005A.C1V

SN 038 - 0184

10-3-86

|  |                         |            |           |
|--|-------------------------|------------|-----------|
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| c:\pwwork\pwwork\carpenterdj\d0241716\366A72-sht-details.DGN |                         | DRAWN -    | REVISED - |
|  |                         | CHECKED -  | REVISED - |
|  |                         | DATE -     | REVISED - |

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

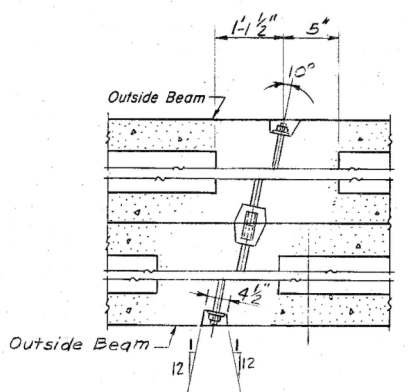
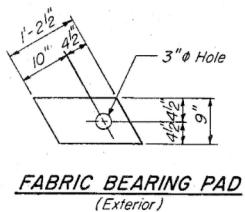
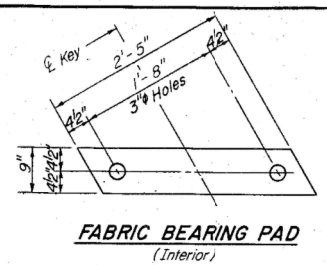
FOR INFORMATION ONLY  
EXISTING BRIDGE PLANS

SCALE: SHEET OF SHEETS STA. TO STA.

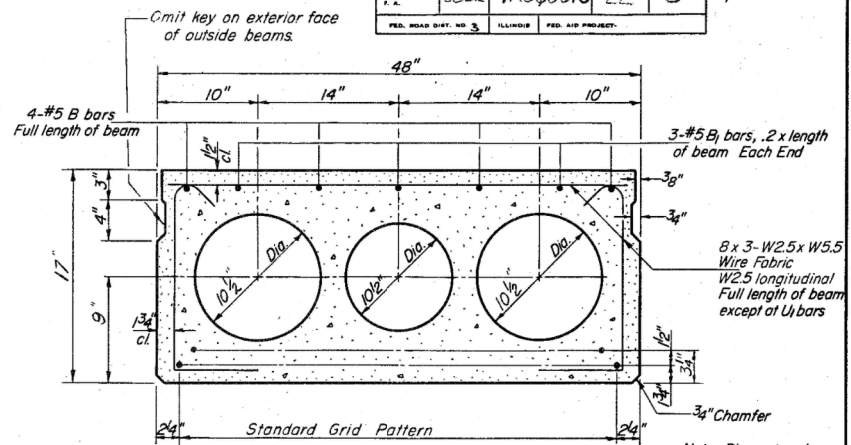
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|---------------------------|---------|----------|--------------|-----------|
| F.A.S. RTE.               | SECTION | COUNTY   | TOTAL SHEETS | SHEET NO. |
| 1324                      | 38 BR   | IROQUOIS | 35           | 25        |
| CONTRACT NO. 66A72        |         |          |              |           |
| ILLINOIS FED. AID PROJECT |         |          |              |           |

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

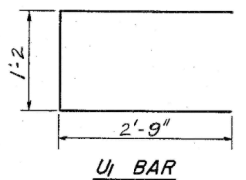
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|-------------|---------|----------|--------------|-----------|
| ROUTE NO.   | SECTION | COUNTY   | TOTAL SHEETS | SHEET NO. |
| 25          | 38 BR   | IROQUOIS | 22           | 8         |
| SHEET NO. 2 |         |          |              |           |
| 4 SHEETS    |         |          |              |           |



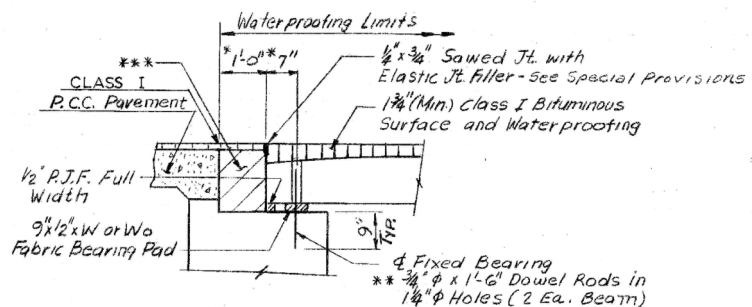
TYPICAL TRANSVERSE TIE ASSEMBLY



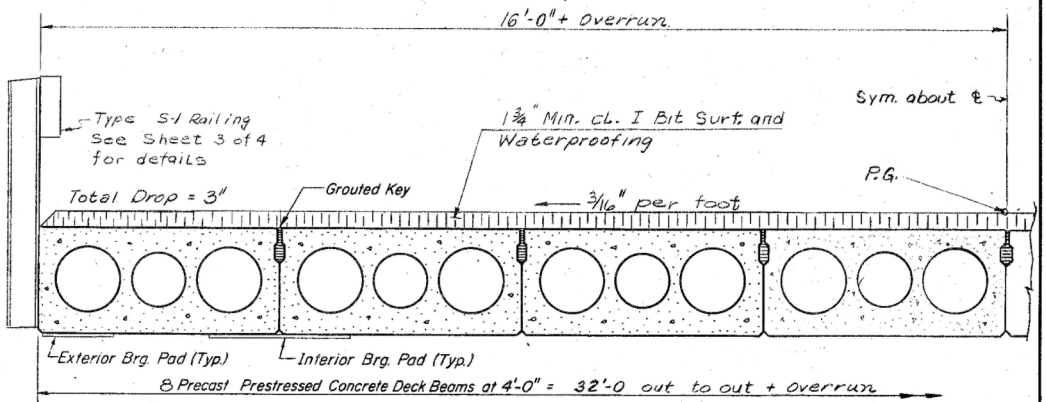
TYPICAL SECTION  
17 - 1/2" Strands, Each Strand Stressed to 28,900 Lbs.  
7 - Strands 1 3/4" up, 10 - Strands 3/4" up.



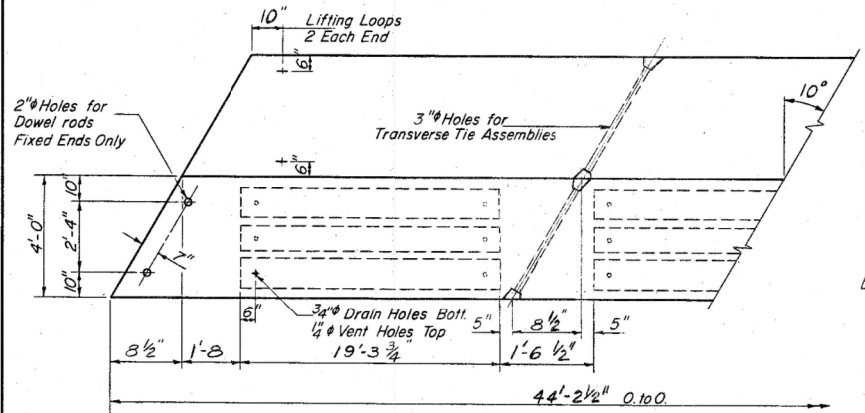
U1 BAR



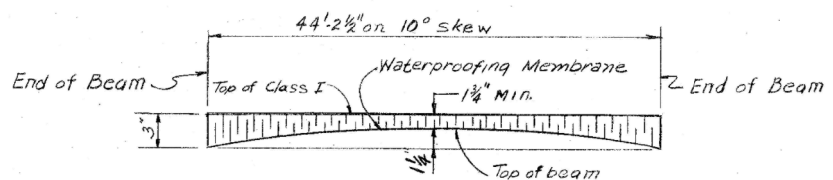
SECTION THRU ABUTMENT (TYP)  
\* Measured at right angle to Abutment  
\*\* Dowel rod to be grouted after beam are in place and allowed to cure (Min. 24 Hrs) prior to grouting the shear keys.



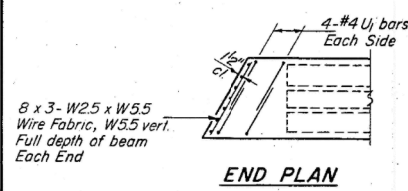
HALF CROSS SECTION



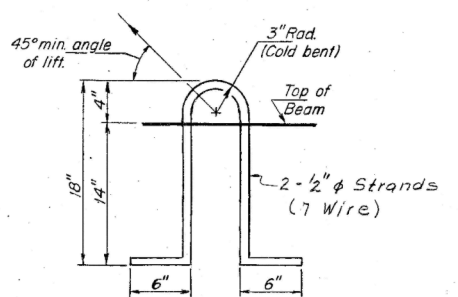
PLAN



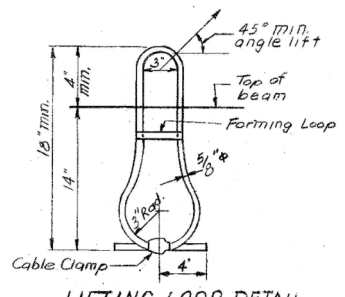
ANTICIPATED CAMBER DIAGRAM



END PLAN



LIFTING LOOP DETAIL  
Alternate (1)



LIFTING LOOP DETAIL  
Alternate (2)

NOTES

Prestressing steel shall be non-galvanized high strength, stress-relieved 7-wire strand, Grade 270. The nominal diameter shall be 1/2" and the nominal cross-sectional area shall be 0.153 sq. in. Lifting loops shall be 3/8" diameter, 6 x 25 class wire rope with fiber core and shall have a minimum ultimate tensile strength of 33,000 lbs. or 2-1/2" - 270 ksi strands, as shown. The 1" rods in the transverse tie assembly shall be tightened to a snug fit and the threads set. Pockets that receive transverse tie bar on outside shall be filled with grout after transverse tie assembly is in place. Reinforcement bars shall conform to AASHTO M-318M-48M-53, Grade 60. The bearing seat surfaces shall be adjusted by shimming to assure firm and even bearing. Two 1/2" fabric adjusting shims of the dimensions of the Exterior Bearing Pad shall be provided for each bearing. Keyway surfaces shall be cleaned to remove form oil or other bond breaking material prior to shipment of the beams. Cleaning shall be done by sandblasting the keyway areas between top of the beam and the bottom edge of the key. A Calcium Nitrite Corrosion Inhibitor, as covered in the Special Provisions, shall be used in the concrete for precast prestressed concrete deck beams. Required Release Strength, f'ci, shall be 4000 p.s.i. An equal substitution of the low-relaxation strands for the stress-relieved strands will be permitted.

BILL OF MATERIAL

| Bar                                     | No. | Size    | Length | Shape |
|---|-----|---------|--------|-------|
| Precast Prestressed Concrete Deck Beams |     | Sq. Ft. | 1415   |       |
| Class X Conc. Superstr.                 |     | Cu. yd. | 3.6    |       |

\*\*\* - Backwall concrete; for details, See Sht. 4 of 4

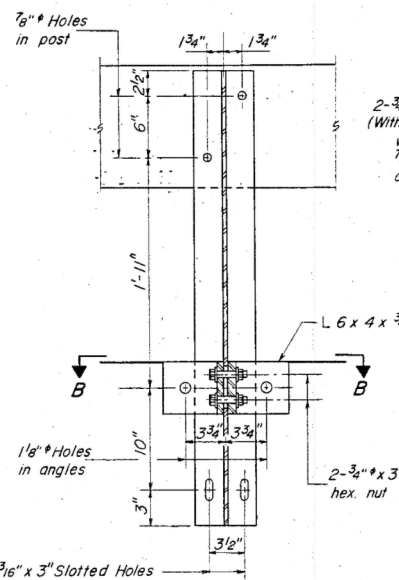
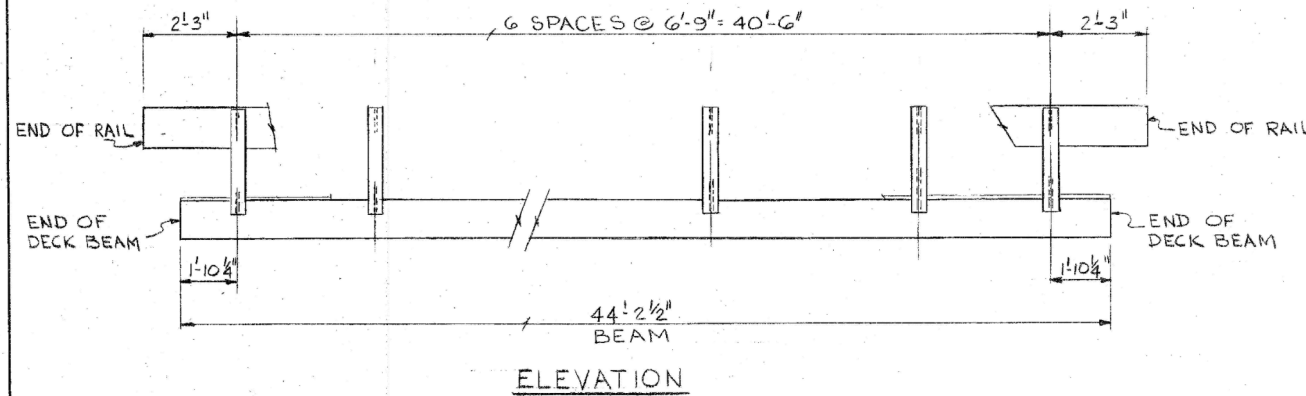
P.P.C. DECK BEAMS  
S.P.I. ROUTE 25 SECT. 38 BR  
IROQUOIS COUNTY  
STATION 500+53

|          |             |
|----------|-------------|
| DESIGNED | D.J.        |
| CHECKED  | W.E.K.      |
| DRAWN    | P. WABONSKY |
| CHECKED  | AJM         |

PD-4-L 4-15-83

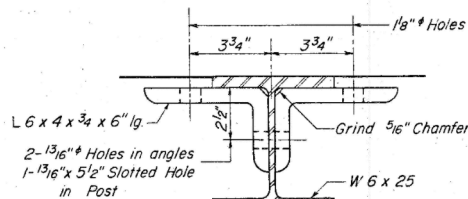
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

|                         |         |          |              |           |
|-------------------------|---------|----------|--------------|-----------|
| ROUTE NO.               | SECTION | COUNTY   | TOTAL SHEETS | SHEET NO. |
| 25                      | 38BR    | IROQUOIS | 22           | 9         |
| SHEET NO. 3<br>4 SHEETS |         |          |              |           |



2-3/4" x 3/4" Round Head Bolts  
(With slot or approved recess in head)  
with locknut & flat washer  
7/8" holes in tubing may be drilled in the field.

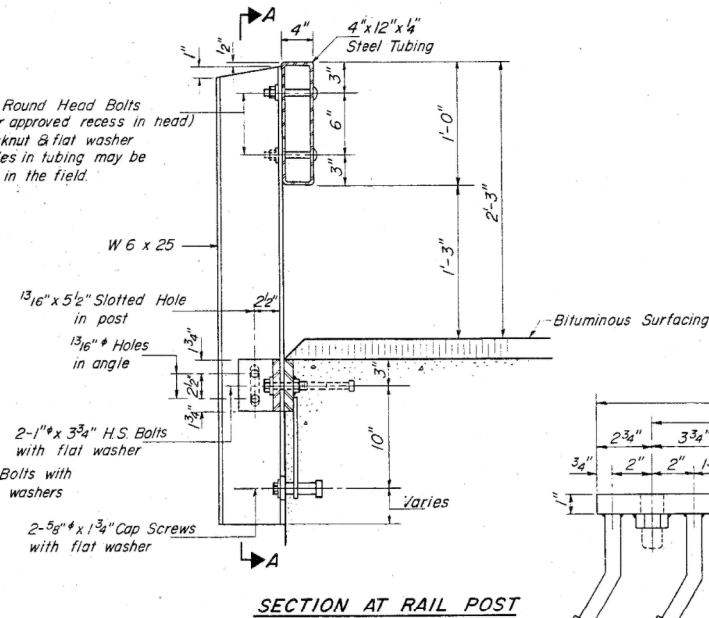
**SECTION A-A**



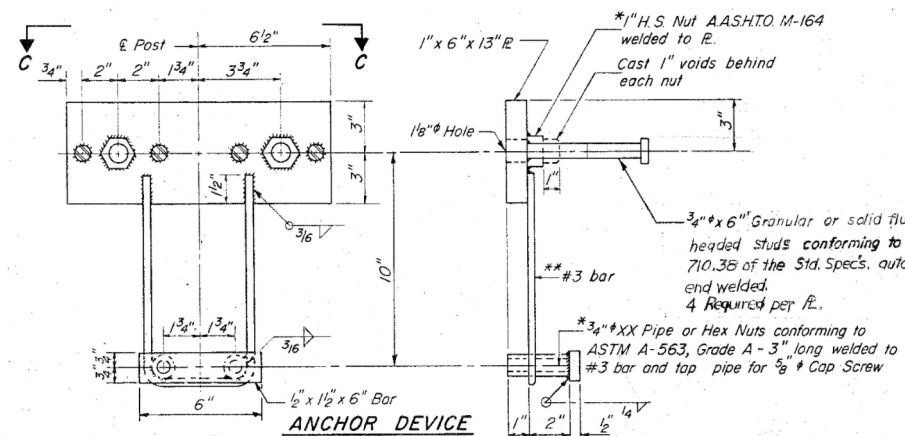
**SECTION B-B**

|          |             |
|----------|-------------|
| DESIGNED | D. J.       |
| CHECKED  | P. W.       |
| DRAWN    | P. WARONSKY |
| CHECKED  | AJM         |

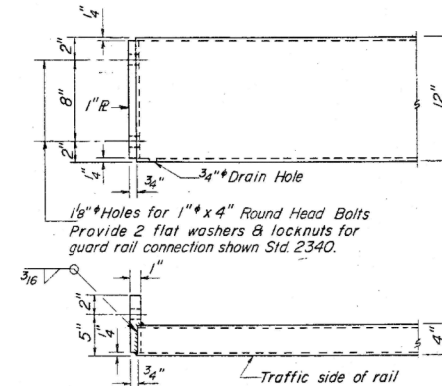
R-23A 12-31-84 (10'-9" Maximum Post Spacing)



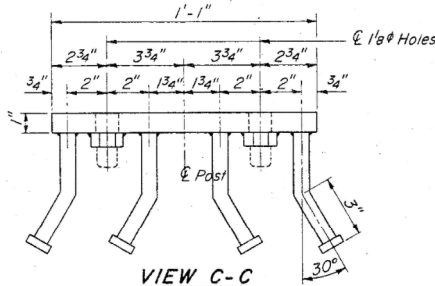
\*\* Whenever the lower insert assemblies interfere with strand locations, the #3 bars shall be cut and adjusted in order to allow raising or lowering of the lower inserts. Maximum adjustment not to exceed 1/2".



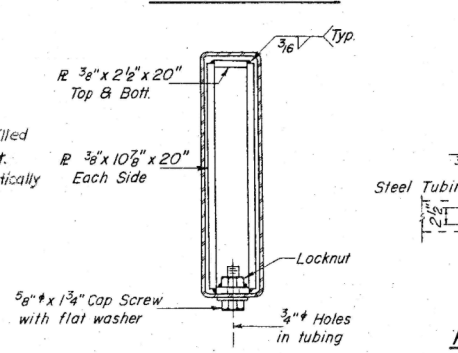
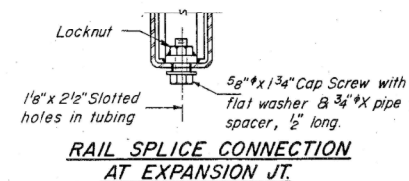
\* Threaded areas shall be plugged or blocked off during casting of beam.



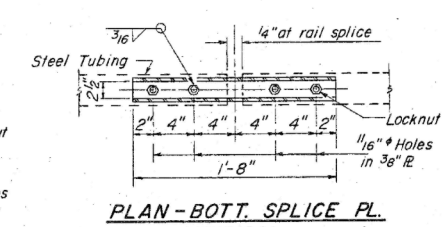
**END OF RAIL DETAILS**



**VIEW C-C**



**SECTION AT RAIL SPLICE**



**PLAN-BOTT. SPLICE PL. TYPICAL**

**NOTES**

Hollow structural steel tubing shall conform to the requirements of A.S.T.M. designation A-500 Grade B Structural Steel Tubing.  
All other steel shapes and pieces shall conform to the requirements of A.A.S.H.T.O. M-183 except posts and angles shall conform to A.A.S.H.T.O. M-223, Grade 50.  
Bolts, cap screws, and nuts shall conform to the requirement of A.S.T.M. designation A-307 except for high strength bolts, nuts and washers noted which shall conform to A.A.S.H.T.O. M-164.  
All bolts, nuts, cap screws, washers and lock washers shall be galvanized in accordance with A.A.S.H.T.O. M-232.  
All posts, railing, rail splices, anchor devices and angles shall be galvanized after shop fabrication in accordance with A.A.S.H.T.O. M-111 and A.S.T.M. A-385. Galvanized rail shall not be painted.  
Railing shall be in accordance with Section 508 of the Standard Specifications, except as noted, and shall be paid for at the contract unit price per lineal foot for STEEL RAILING, TYPE S-1.  
All field drilled holes shall be coated with an approved zinc rich paint before erection.  
The lower portion of the post flange in contact with concrete shall receive two coats of asphalt paint conforming to Section 714.08 Type B or place 1/2" fabric bearing pad between the post and concrete.  
The 3/4" high strength bolts used to connect the 6 x 4 x 3/4 angles to the post shall be tightened in accordance with Article 507.04(g)(3) of the Standard Specifications. The 1" high strength bolts connecting the angles to the concrete shall be tightened to a snug fit and given an additional 1/8 turn. The 5/8" cap screws in bottom of posts shall be tightened to a snug fit only.

**BILL OF MATERIAL**

| Item                    | Unit     | Quantity |
|-------------------------|----------|----------|
| Steel Railing, Type S-1 | Lin. Ft. | 90       |

**TYPE S-1  
STEEL RAILING**

SBI ROUTE 25 SECTION 38 BR  
IROQUOIS COUNTY  
STATION 500+53

2-25-86

|   |                            |            |           |
|---|----------------------------|------------|-----------|
| FILE NAME =   | USER NAME = carpenterdj    | DESIGNED - | REVISED - |
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| \$MODELNAME\$   | PLOT SCALE = 48.0000 / in. | CHECKED -  | REVISED - |
|   | PLOT DATE = 8/12/2014      | DATE -     | REVISED - |

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

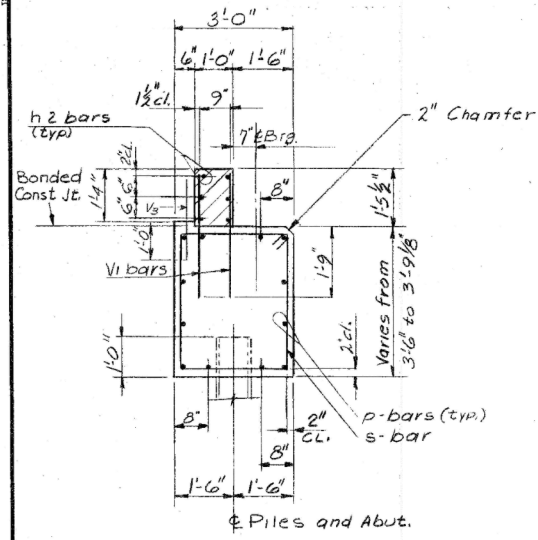
FOR INFORMATION ONLY  
EXISTING BRIDGE PLANS

SCALE: SHEET OF SHEETS STA. TO STA.

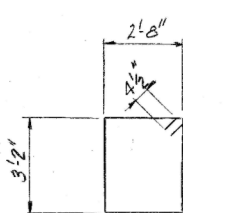
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|---------------------------|---------|----------|--------------|-----------|
| F.A.S. RTE.               | SECTION | COUNTY   | TOTAL SHEETS | SHEET NO. |
| 1324                      | 38 BR   | IROQUOIS | 35           | 27        |
| CONTRACT NO. 66A72        |         |          |              |           |
| ILLINOIS FED. AID PROJECT |         |          |              |           |

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

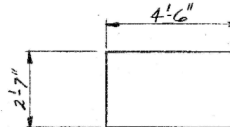
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|--------------------|----------|------------------|-----------|-------|-----------|
| ROUTE NO.          | SECTION  | COUNTY           | SHEET NO. | SHEET | SHEET NO. |
| S.B. 1 25          | 38 BR    | IROQUOIS         | 22        | 10    | 4 SHEETS  |
| F.A.               |          |                  |           |       |           |
| FED ROAD DIST. NO. | ILLINOIS | FED. AID PROJECT |           |       |           |



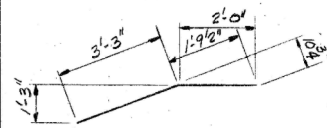
SECTION - AA



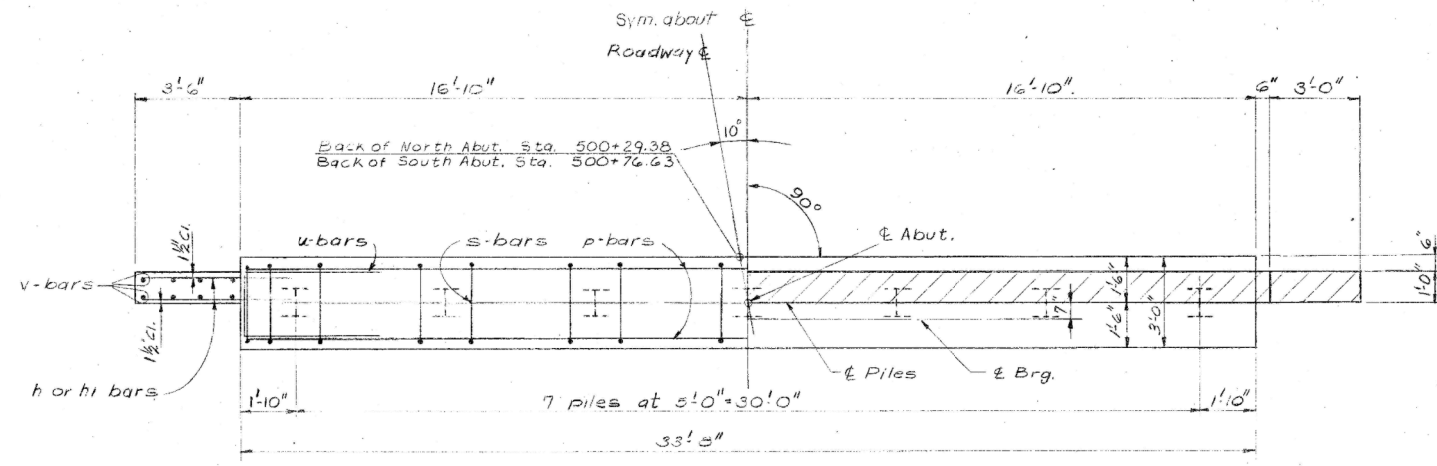
BAR - S



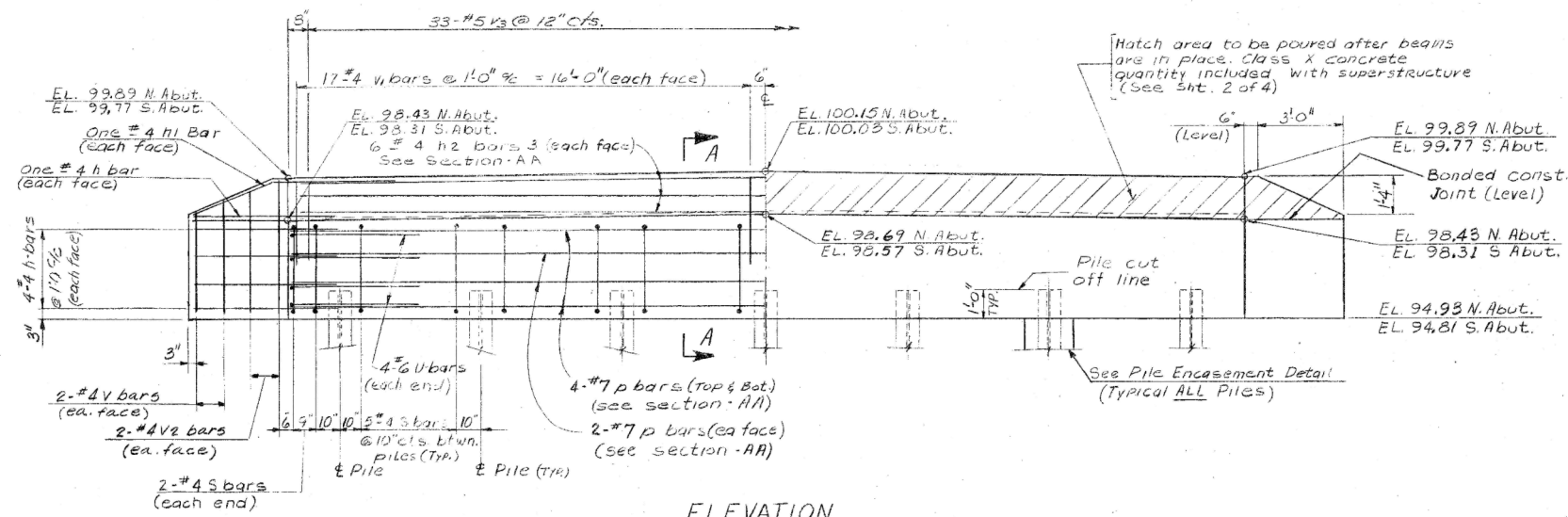
BAR - U



BAR - h1



PLAN

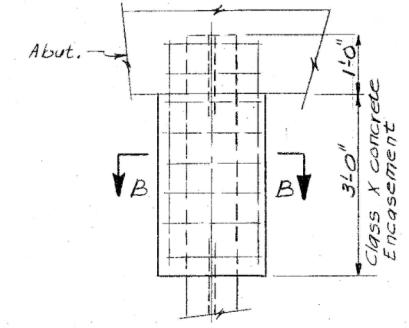


ELEVATION

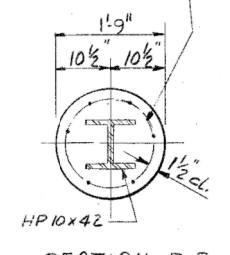
North Abut. Looking Back Station  
South Abut. Looking Ahead Station

**PILE DATA**

|              | North Abut.                       | South Abut.                      |
|--------------|-----------------------------------|----------------------------------|
| Type:        | H.P. 10x42                        | H.P. 10x42                       |
| Capacity:    | 30 Ton, Driven to 45 Tons Bearing | 30 Ton, Driven to 45 Ton Bearing |
| Est. Length: | 33 Ft.                            | 33 Ft.                           |
| No. Req'd:   | 6 plus one Test Pile              | 7                                |



PILE ENCASEMENT DETAIL  
(14 Req'd)



SECTION - B-B

Welded wire fabric 6x6-W4.0x W4.0 weighing 58#/100 sqft. The cost of class x concrete encasement and reinforcement is incidental to the cost of furnishing Piles. Forms for encasement may be omitted when soil conditions will permit.

**TWO ABUTMENTS BILL OF MATERIAL**

| Bar | No. | Size | Total | Length | Shape |
|-----|-----|------|-------|--------|-------|
| h   | 20  | #4   | 40    | 5'-0"  | —     |
| h1  | 4   | #4   | 8     | 5'-3"  | —     |
| h2  | 6   | #4   | 12    | 33'-4" | —     |
| P   | 12  | #7   | 24    | 33'-4" | —     |
| S   | 34  | #4   | 68    | 12'-5" | □     |
| U   | 8   | #6   | 16    | 11'-7" | □     |
| V   | 8   | #4   | 16    | 3'-4"  | —     |
| V1  | 68  | #4   | 136   | 3'-1"  | —     |
| V2  | 8   | #4   | 16    | 4'-2"  | —     |
| V3  | 33  | #5   | 66    | 2'-0"  | —     |

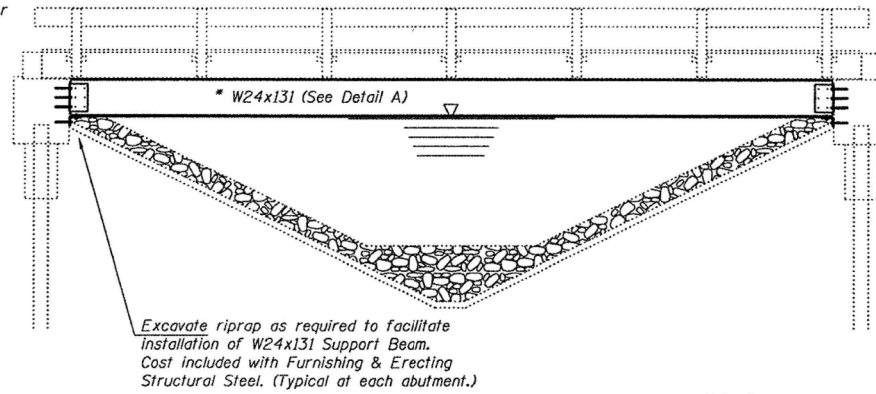
|                            |         |      |
|----------------------------|---------|------|
| Class X concrete           | Cu. Yds | 29.8 |
| Reinforcement Bars         | Lbs     | 3410 |
| Steel Piles (HP10x42)      | Lin Ft. | 429  |
| Test Piles Steel (HP10x42) | Each    | 1    |

DESIGNED D.J.  
CHECKED W.E.K.  
DRAWN P. WARONSKY  
CHECKED AJM

NORTH AND SOUTH ABUTMENTS  
S.B.1. ROUTE 25 SECTION 38 BR  
IROQUOIS COUNTY  
STATION 500+53

2-20-86

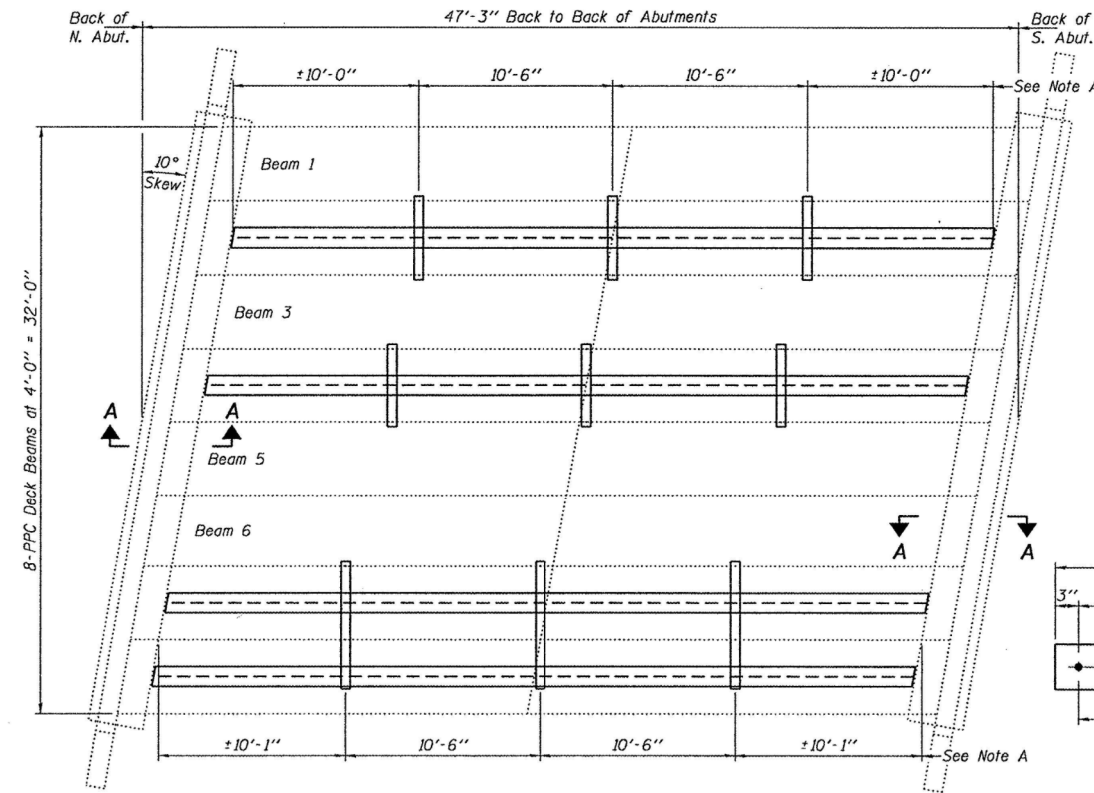
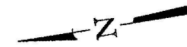
\* Contractor is to verify beam length prior to ordering material. Other sections meeting the section modulus requirements shown may be allowed subject to approval by the Bureau of Bridges and Structures. Maximum Girder depth = 24". No additional payment will be allowed if the contractor chooses a heavier steel section than the one specified in the plans. (Min Sx = 329 in<sup>3</sup>)



Note A:  
 @ Transverse Tie P's (3 per span). Place additional shims at midpoints between Tie P's. Securely weld shims to top flange of support beam. Minimum shim size is 6" x flange width.

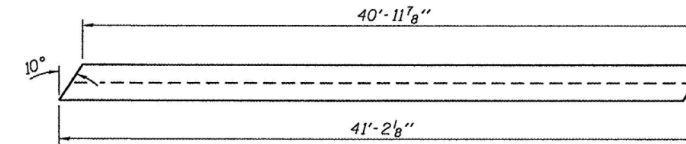
**GENERAL NOTES**

All structural steel shall conform to AASHTO Classification M-270 Gr. 36, unless otherwise noted.  
 Plan dimensions and details relative to existing plans are subject to nominal construction variations. The Contractor shall field verify existing dimensions and details affecting new construction and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in scope of the work, however, the Contractor will be paid for the quantity actually furnished at the unit price bid for the work.  
 The Contractor is advised that the existing PPC Deck Beams are in a deteriorated condition with reduced load carrying capacity. It is the contractor's responsibility to account for the condition of the beams when developing construction procedures.  
 See Section 584 of the Standard Specifications for Epoxy Grouting of Threaded Rods; Minimum embedment 9".  
 If the contractor's procedure for placement of beams involves placement of cranes or other heavy equipment on the bridge, a detailed procedure shall be submitted to the Engineer for approval. The procedure shall include calculations, prepared and sealed by an Illinois Licensed Structural Engineer, verifying that the equipment and procedure used will not overstress the existing beams. To distribute load to multiple beams and protect the existing surface, in all cases a double layer mat of heavy timbers shall be used at all times under crane tracks or wheels and any outriggers in the down position. If necessary, shims shall be used under the crane mat to ensure uniform contact with the underlying beams.  
 The cost of epoxy grouting threaded rods on the pier cap, abutments and beams shall be included with Furnishing and Erecting Structural Steel.  
 The Contractor has the option of using used steel. See Special Provisions.



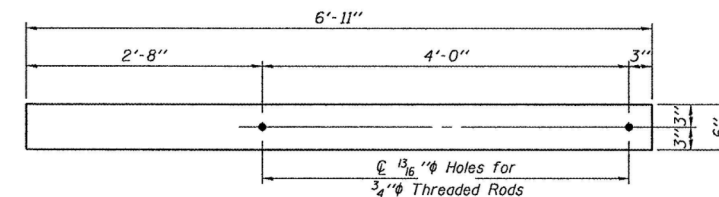
**PLAN**

Place W24x131 Bracing Beams under Existing Deck Beams 2, 4, 7 & 8)



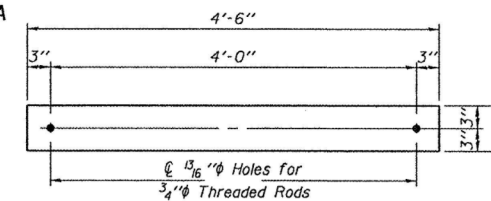
**DETAIL A**

W24x131 x 41'-2 1/8" (4 Req'd)



**TRANSVERSE TIE P B**

P 1/2" x 6'-11" x 6" (3 Req'd)



**TRANSVERSE TIE P A**

P 1/2" x 4'-6" x 6" (6 Req'd)

**TOTAL BILL OF MATERIAL**

| ITEM                                     | UNIT  | QUANTITY |
|--|-------|----------|
| Furnishing and Erecting Structural Steel | Pound | 23,630   |



Expires November 30, 2012

|                               |                               |                         |
|-------------------------------|-------------------------------|-------------------------|
| DESIGNED - <i>[Signature]</i> | EXAMINED - <i>[Signature]</i> | DATE - JANUARY 27, 2011 |
| CHECKED - <i>[Signature]</i>  | PASSED - <i>[Signature]</i>   |                         |
| DRAWN - Kyle M. Steffen       |                               |                         |
| CHECKED - <i>[Signature]</i>  |                               |                         |

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

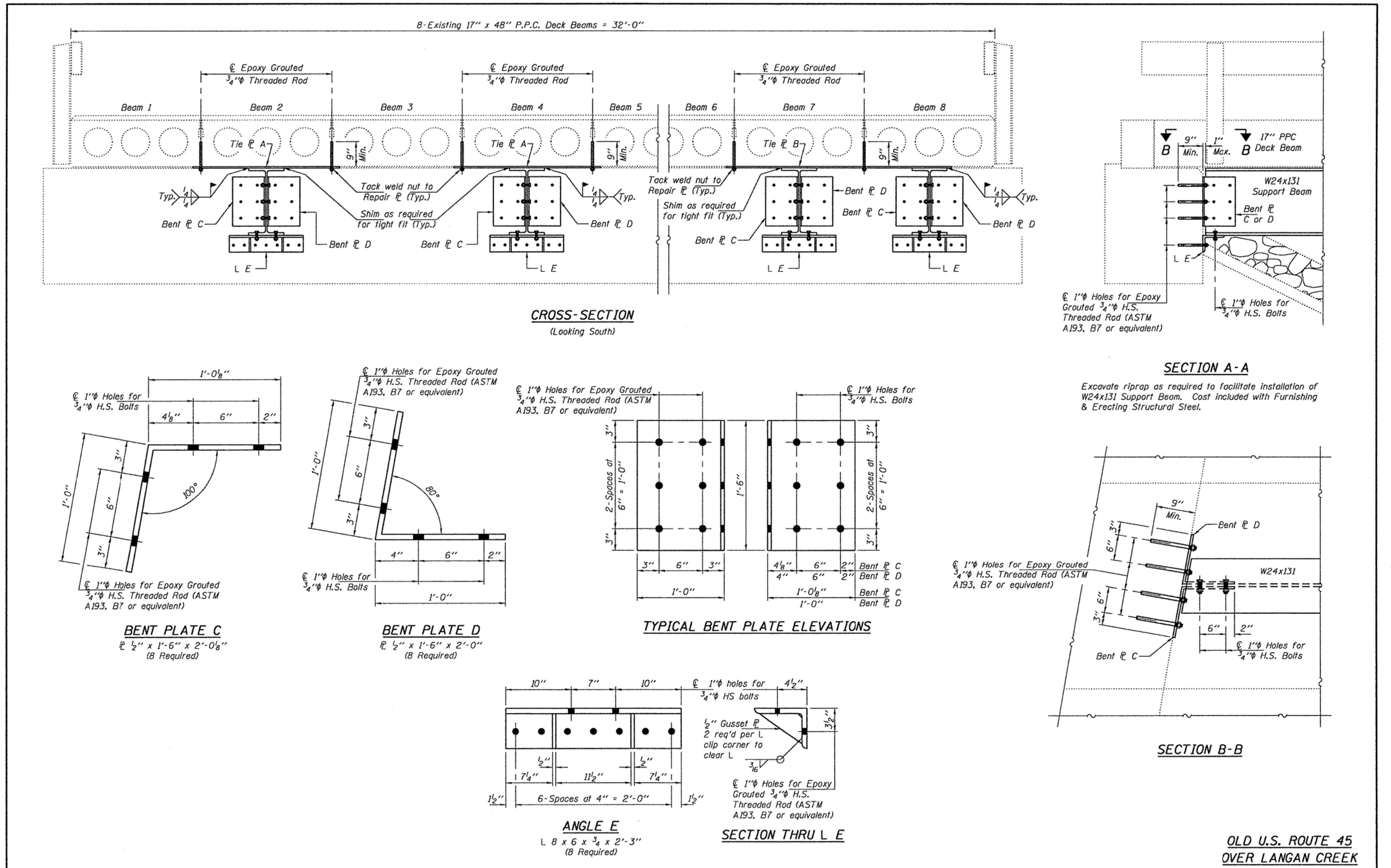
GENERAL PLAN & ELEVATION  
 SN 038-0184

|                           |                 |                 |                    |             |
|---------------------------|-----------------|-----------------|--------------------|-------------|
| F.A.S. RTE. 1324          | SECTION (38-BR) | COUNTY IROQUOIS | TOTAL SHEETS 6     | SHEET NO. 5 |
|                           |                 |                 | CONTRACT NO. 66A70 |             |
| ILLINOIS FED. AID PROJECT |                 |                 |                    |             |

OLD U.S. ROUTE 45  
 OVER LANGAN CREEK

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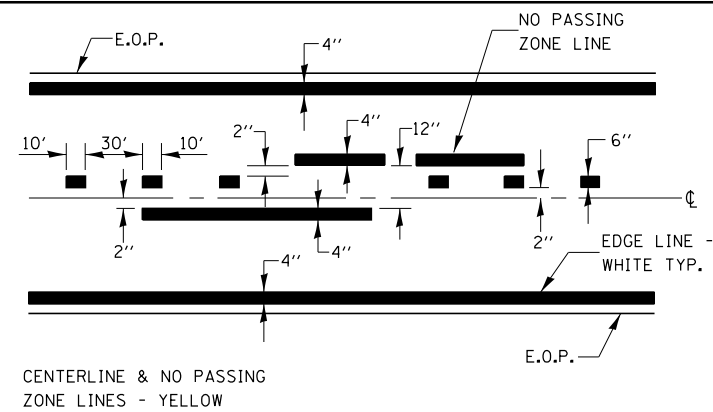
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| FILE NAME =   | USER NAME = carpenterdj     | DESIGNED - | REVISED - | <b>STATE OF ILLINOIS<br/>DEPARTMENT OF TRANSPORTATION</b> | <b>FOR INFORMATION ONLY<br/>EXISTING BRIDGE BRACING PLANS</b> | F.A.S. RTE. 1324   | SECTION (38-BR)              | COUNTY IROQUOIS           | TOTAL SHEETS 6 | SHEET NO. 5 |
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| \$MODELNAME\$   | PLOT DATE = 8/12/2014       | CHECKED -  | REVISED - |   |   | SCALE:             | SHEET OF SHEETS STA. TO STA. | ILLINOIS FED. AID PROJECT |                |             |
|   |                             | DATE -     | REVISED - |   |   |                    |                              |                           |                |             |



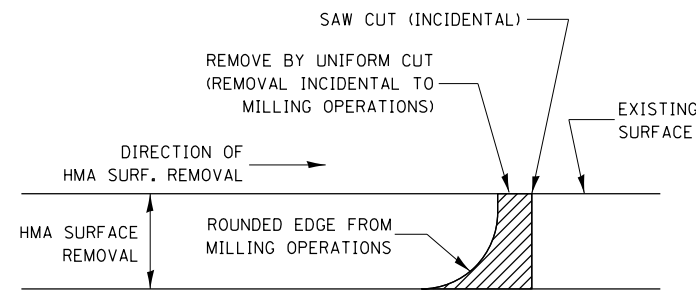
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| DESIGNED - GGE          | EXAMINED - <i>Joanne F. [Signature]</i> | DATE - JANUARY 27, 2011 | <b>STATE OF ILLINOIS<br/>DEPARTMENT OF TRANSPORTATION</b> | <b>P.P.C. DECK BEAM SUPPORT DETAILS<br/>SN 038-0184</b> | F.A.S. RTE. 1324          | SECTION (38-BR11) | COUNTY IROQUOIS | TOTAL SHEETS 6 | SHEET NO. 6 |  |
| CHECKED - IJL           | PASSED - <i>[Signature]</i>             |                         |   |   | SHEET NO. 2 OF 2 SHEETS   |                   |                 |                |             |  |
| DRAWN - Kyle M. Steffen |   |                         |   |   | CONTRACT NO. 66A70        |                   |                 |                |             |  |
| CHECKED - GGE IJL       |   |                         |   |   | ILLINOIS FED. AID PROJECT |                   |                 |                |             |  |

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|---|-------------------------|------------|-----------|---|---|---------------------------|---------------|-----------------|-----------------|--------------|----|
| FILE NAME =   | USER NAME = carpenterdj | DESIGNED - | REVISED - | <b>STATE OF ILLINOIS<br/>DEPARTMENT OF TRANSPORTATION</b> | <b>FOR INFORMATION ONLY<br/>EXISTING BRIDGE BRACING PLANS</b> | F.A.S. RTE. 1324          | SECTION 38 BR | COUNTY IROQUOIS | TOTAL SHEETS 35 | SHEET NO. 30 |    |
| ei:\pwork\pwork\pwork\carpenterdj\d0241716\366A72-sht-details.DGN |                         | DRAWN -    | REVISED - |   |   | CONTRACT NO. 66A72        |               |                 |                 |              |    |
| PLOT SCALE = 48.0000' / in.                                       |                         | CHECKED -  | REVISED - |   |   | ILLINOIS FED. AID PROJECT |               |                 |                 |              |    |
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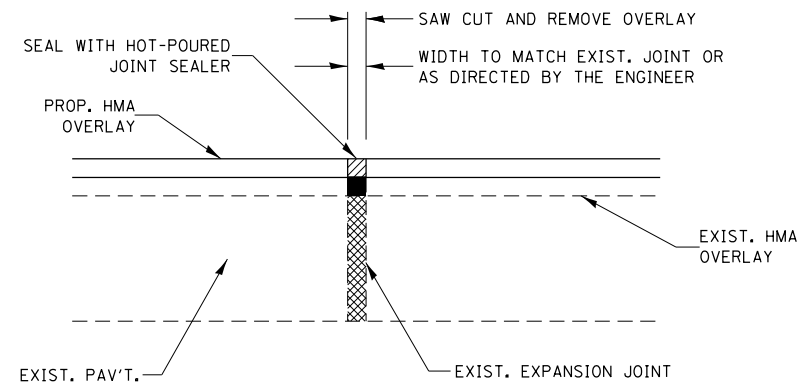


**PAVEMENT MARKING**



NOTE:  
WHEN MILLING OPERATIONS PRODUCE A ROUNDED EDGE, THEN A SAW CUT SHALL BE USED TO MANUFACTURE A PERPENDICULAR EDGE AS SHOWN IN THE DETAIL. THE ENGINEER SHALL BE THE SOLE JUDGE CONCERNING THE USE OF THIS DETAIL.

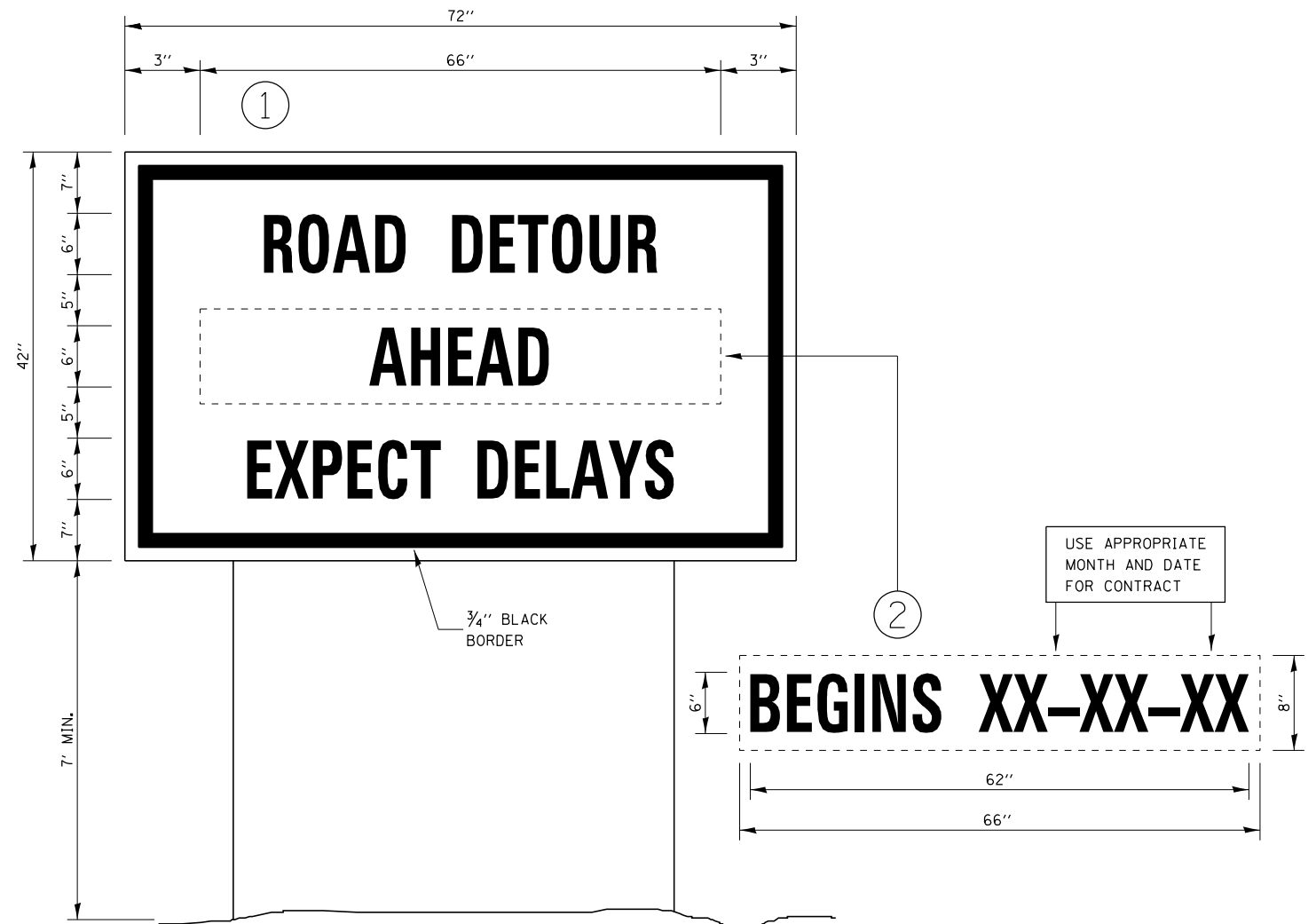
**HMA DETAIL AT BUTT JOINTS**



**EXPANSION JOINT REHABILITATION DETAIL**

GENERAL NOTES:

1. THE NEW HMA OVERLAY SHALL BE SAWED, REMOVED AND THE JOINT AREA CLEANED. PRIOR TO PLACING THE HOT-POURED JOINT SEALER, THE JOINT SHALL BE BLOWN OUT WITH COMPRESSED AIR.
2. THIS WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER FOOT FOR EXPANSION JOINT REHABILITATION.



**TEMPORARY INFORMATION SIGNING**

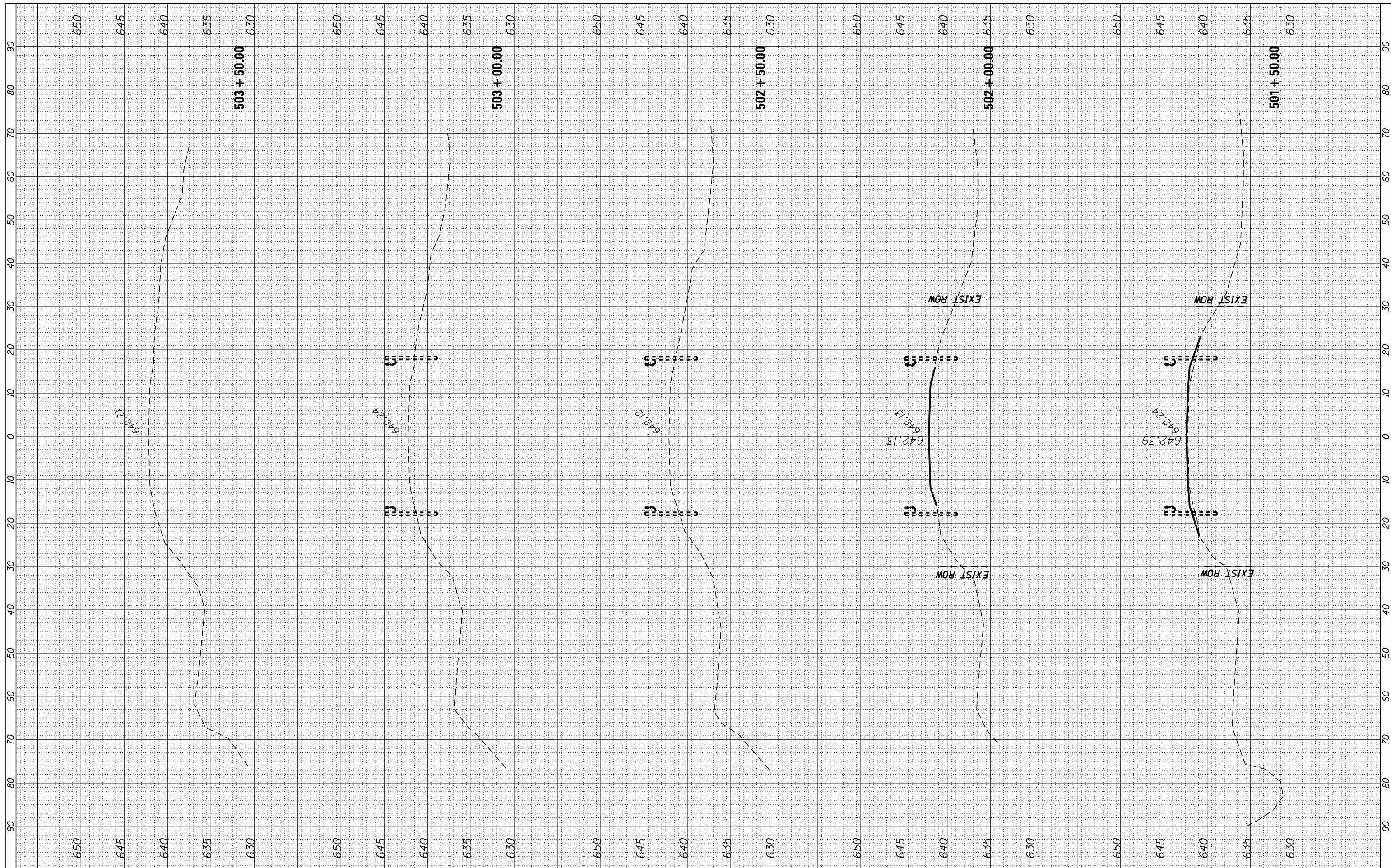
NOTES:

1. USE 6" D BLACK LETTERING ON FLOURESENT ORANGE BACKGROUND.
2. ERECT SIGNS AT LOCATIONS IN ADVANCE OF THE "ROAD CONSTRUCTION AHEAD" SIGNS AS DIRECTED BY THE ENGINEER.
3. ERECT SIGN ① WITH INSTALLED PANEL ② A MINIMUM OF ONE WEEK PRIOR TO THE START OF THE DETOUR.
4. REMOVE PANEL ② ON THAT DATE.
5. SEE SPECIAL PROVISION "TEMPORARY INFORMATION SIGNING" FOR ADDITIONAL INFORMATION.
6. WILL BE PAID FOR PER SQ FT AS "TEMPORARY INFORMATION SIGNING". EACH SIGN = 21 SQ FT AND THE DATE PANEL ② WILL NOT BE MEASURED SEPARATELY FOR PAYMENT.

|   |                             |            |           |   |                |                           |          |        |              |           |
|---|-----------------------------|------------|-----------|---|----------------|---------------------------|----------|--------|--------------|-----------|
| FILE NAME =   | USER NAME = carpenterdj     | DESIGNED - | REVISED - | <b>STATE OF ILLINOIS<br/>DEPARTMENT OF TRANSPORTATION</b> | <b>DETAILS</b> | F.A.S. RTE.               | SECTION  | COUNTY | TOTAL SHEETS | SHEET NO. |
| ei:\pw\work\p1dot\carpenterdj\d0241716\366A72-sht-details.DGN | DRAWN -                     | REVISED -  | 1324      |   |                | 38 BR                     | IROQUOIS | 35     | 31           |           |
| \$MODELNAME\$   | PLOT SCALE = 40.0000' / in. | CHECKED -  | REVISED - |   |                | CONTRACT NO. 66A72        |          |        |              |           |
|   | PLOT DATE = 8/12/2014       | DATE -     | REVISED - |   |                | ILLINOIS FED. AID PROJECT |          |        |              |           |
| SCALE:  |                             |            |           |   |                | SHEET                     | OF       | SHEETS | STA.         | TO STA.   |

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

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



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USER NAME = carpenterd\_j  
 DRAWN -  
 CHECKED -  
 DATE -  
 PLOT SCALE = 20.0000' / in.  
 PLOT DATE = 8/12/2014

DESIGNED -  
 DRAWN -  
 CHECKED -  
 DATE -

REVISED -  
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 REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS**

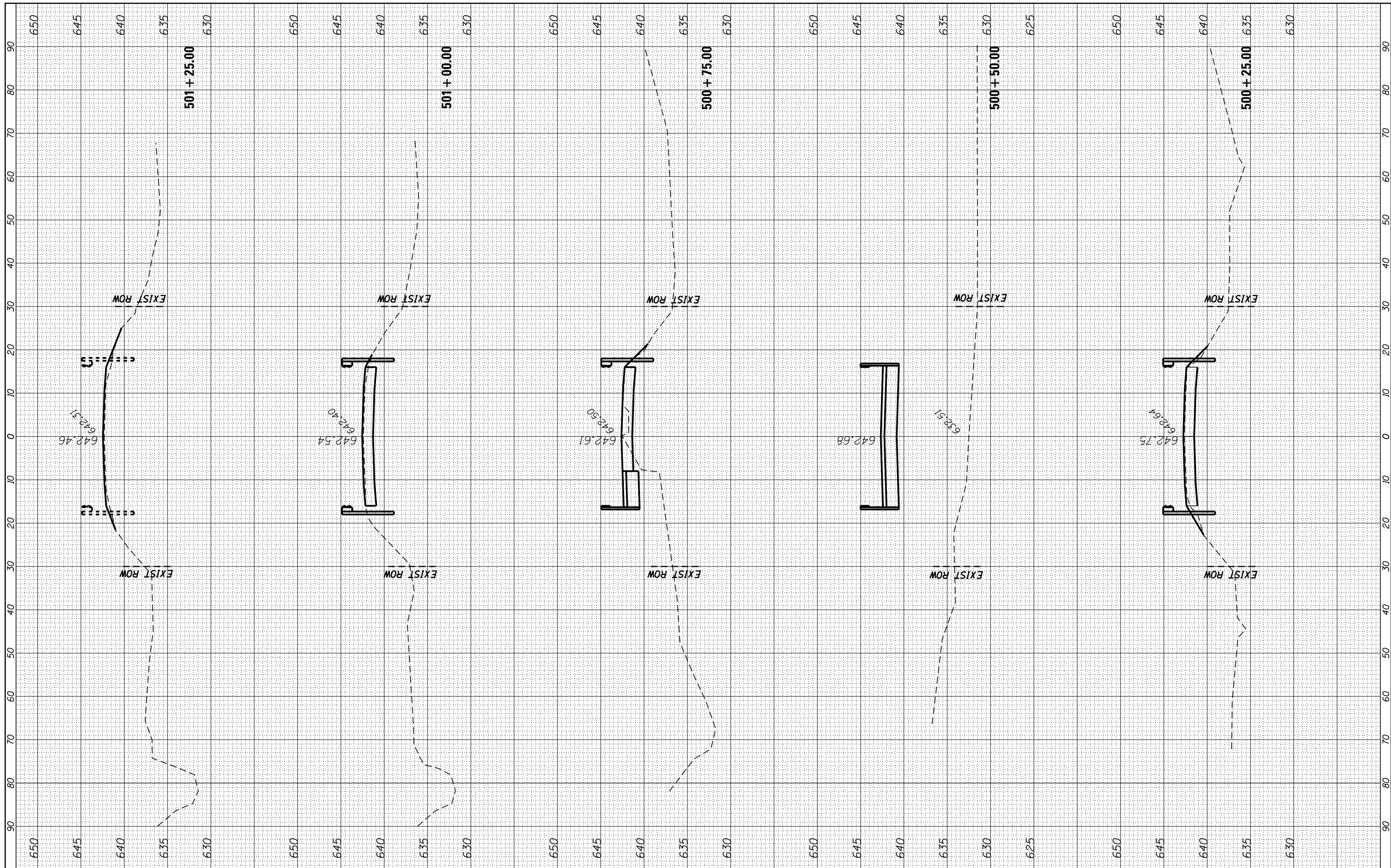
SCALE: SHEET 3 OF 3 SHEETS STA. 501+50.00 TO STA. 503+50.00

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| F.A.S. RTE.<br>1324 | SECTION<br>38 BR | COUNTY<br>IROQUOIS | TOTAL SHEETS<br>35        | SHEET NO.<br>32 |
| CONTRACT NO. 66A72  |                  |                    | ILLINOIS FED. AID PROJECT |                 |



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

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|-----------------|---------------|------|
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| NO.             | PLOTTED       |      |
|                 | TEMPLATE      |      |
|                 | AREAS CHECKED |      |



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 PLOT DATE = 8/12/2014

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| DESIGNED - | REVISED - |
| DRAWN -    | REVISED - |
| CHECKED -  | REVISED - |
| DATE -     | REVISED - |

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

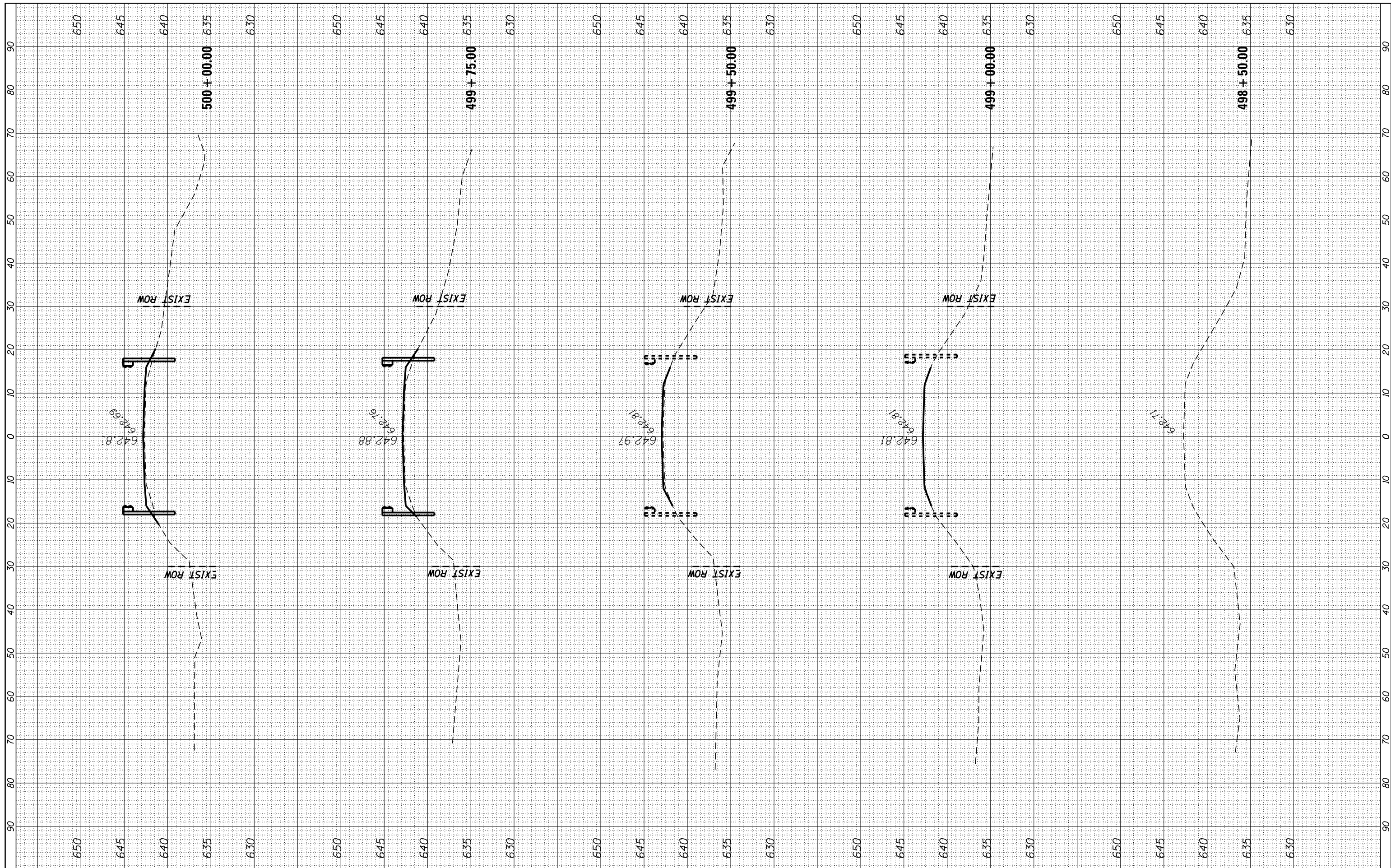
CROSS SECTIONS

SCALE: SHEET 2 OF 3 SHEETS STA. 500+25.00 TO STA. 501+25.00

|                           |               |                 |                    |              |
|---------------------------|---------------|-----------------|--------------------|--------------|
| F.A.S. RTE. 1324          | SECTION 38 BR | COUNTY IROQUOIS | TOTAL SHEETS 35    | SHEET NO. 33 |
|                           |               |                 | CONTRACT NO. 66A72 |              |
| ILLINOIS FED. AID PROJECT |               |                 |                    |              |

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

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 PLOT DATE = 8/12/2014

DESIGNED -  
 DRAWN -  
 CHECKED -  
 DATE -

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**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

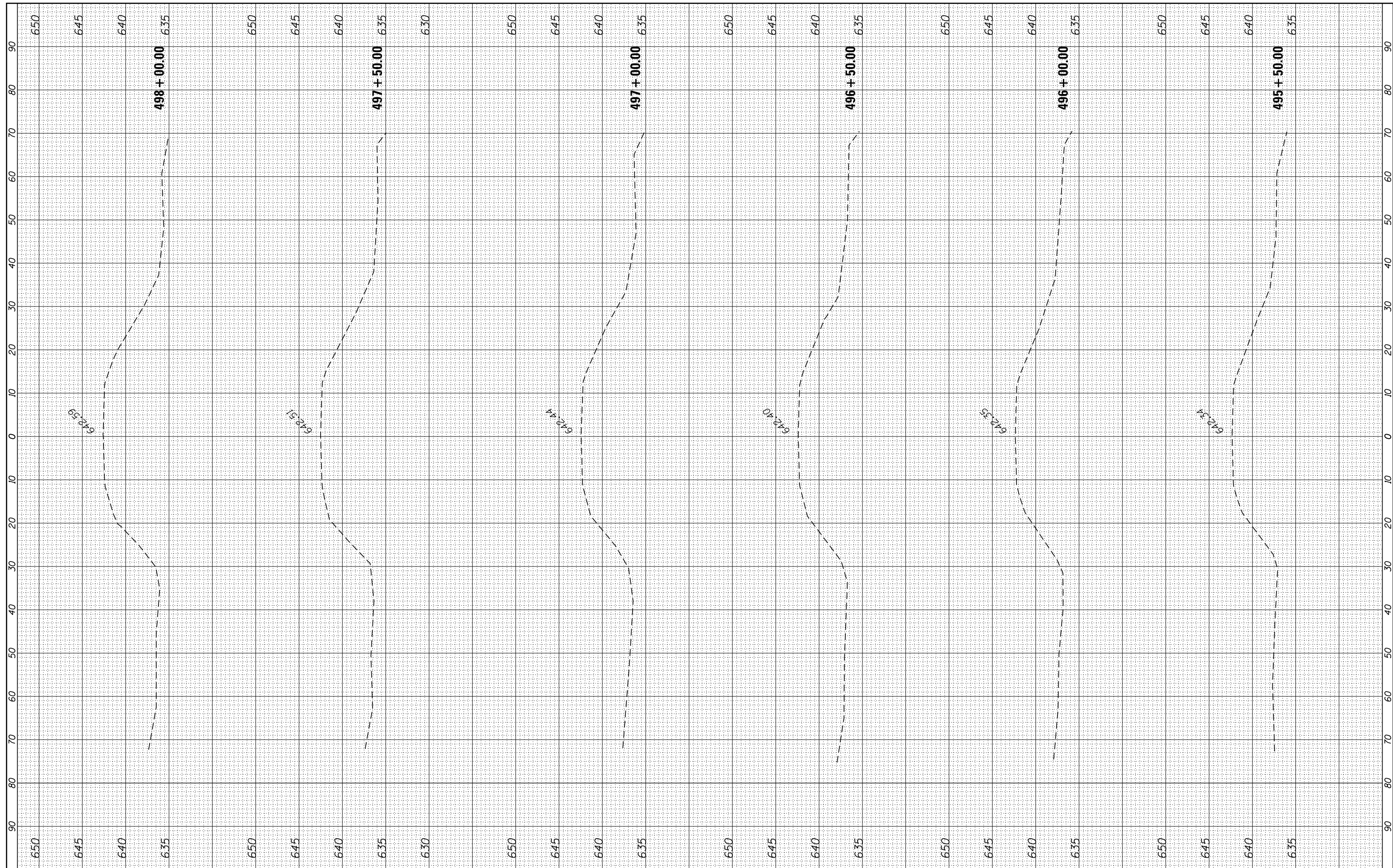
**CROSS SECTIONS**

SCALE: SHEET 1 OF 3 SHEETS STA. 498+50.00 TO STA. 500+00.00

|                           |               |                 |                    |              |
|---------------------------|---------------|-----------------|--------------------|--------------|
| F.A.S. RTE. 1324          | SECTION 38 BR | COUNTY IROQUOIS | TOTAL SHEETS 35    | SHEET NO. 34 |
|                           |               |                 | CONTRACT NO. 66A72 |              |
| ILLINOIS FED. AID PROJECT |               |                 |                    |              |

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

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



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 DRAWN -  
 CHECKED -  
 DATE - 8/12/2014

DESIGNED -  
 DRAWN -  
 CHECKED -  
 DATE -

REVISED -  
 REVISED -  
 REVISED -  
 REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS**

SCALE: SHEET OF SHEETS STA. 495+50.00 TO STA. 498+00.00

|                           |         |          |                    |           |
|---------------------------|---------|----------|--------------------|-----------|
| F.A.S. RTE.               | SECTION | COUNTY   | TOTAL SHEETS       | SHEET NO. |
| 1324                      | 38 BR   | IROQUOIS | 35                 | 35        |
|                           |         |          | CONTRACT NO. 66A72 |           |
| ILLINOIS FED. AID PROJECT |         |          |                    |           |