06-10-2016 LETTING ITEM 119

STATE OF ILLINOIS

DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

FOR INDEX OF SHEETS, SEE SHEET NO. 2

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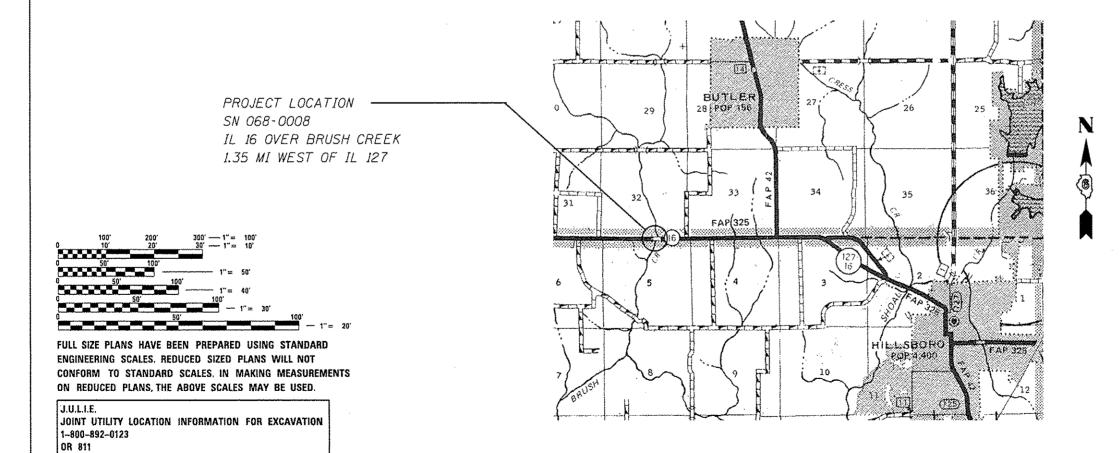
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PROPOSED CONTRACT MAINTENANCE

F.A.P. ROUTE 325 (IL 16) SECTION (21) BJR, B-R-2, J-1

BRIDGE DECK OVERLAY MONTGOMERY

C-96-047-16



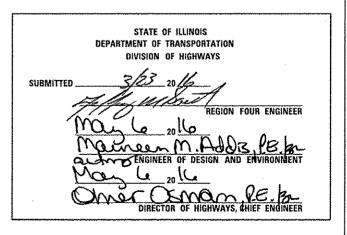
BRIDGE MAINTENANCE ENGINEER: BRANDON DUDLEY (217) 785-9290 BRIDGE INSPECTION ENGINEER: DAVE COPENBARGER (217) 785-5306

GROSS LENGTH = 575 FT. = 0.11 MILE NET LENGTH = 575 FT. = 0.11 MILE

CONTRACT NO. 72J10

D-96-047-16





PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

INDEX OF SHEETS STANDARDS COVER SHEET 000001-06 INDEX, STANDARDS, SIGNATURES, GENERAL NOTES, & SCHEDULES 2 001001-02 3-4 SUMMARY OF QUANTITIES 001006 5 TYPICAL SECTION 701001-02 6 ROADWAY PLAN 701006-05 STAGING PLAN 701201-04 8 TRAFFIC CONTROL PLAN 701301-04 9-13 SN 068-0008 BRIDGE PLANS 701306-03 701321-15 701326-04 701901-05 704001-08 GENERAL NOTES: 782006

BASE COURSE WIDENING SHALL BE COMPLETED PRIOR TO STAGING TRAFFIC.

AREAS OF DECK REPAIRS SHOWN ARE ESTIMATED. THE ENGINEER SHALL SHOW ACTUAL LOCATIONS OF DECK REPAIRS ON AS-BUILT PLANS.

| STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS DISTRICT 6 | |
|--|--|
| EXAMINED March 17th 20 16 William Virginier of Operations | |
| EXAMINED MARCH 17 20 16 Parabolean CAT ENGINEER OF PROJECT IMPLEMENTATION | |
| EXAMINED March 18 20 16 August 18 20 16 ENGINEER OF PROGRAM DEVELOPMENT | |

| MIXTURE USE(S) | HMA BASE CSE | HMA SURFACE |
|--|-------------------|-------------|
| The state of the s | WIDENING * | CSE |
| AC/PG | PG 64-22 | PG 64-22 |
| DESIGN AIR VOIDS | 4.0% © N50 | 4.0% O N50 |
| MIX COMPOSITION | IL 19.0 | IL 9.5 |
| (GRADATION MIXTURE) | | |
| FRICTION AGGREGATE | N/A | MIX "D" |
| QUALITY MANAGEMENT | OC/OA | QC/QA |
| SUBLOT SIZE | N/A | N/A |

^{*} BASE COURSE PAY ITEM ALLOWS FOR HMA OR PCC USE.

| | | PAVING SCI | HEDULE | |
|-----------|----|------------|-----------------------------------|-----------------------------|
| STA | 70 | STA | BIT MATL (PRIME CT) (POUND) | HMA SURF CSE ** (TON) |
| 276+50.00 | - | 277+89.25 | 244 | 46 |
| 279+42.33 | - | 280+80.00 | 241 | 45 |
| | | TOTALS | 485 | 91 |

^{**} ADDITIONAL 40 TONS PROVIDED FOR DIP CORRECTIONS ON BRIDGE APPROACHES

| | PAV | EMENT MARK | ING REM | OVAL SCHEDULE | · . |
|----------|-----|------------|----------|---------------|-----------------------------|
| STA | то | STA | LOC. | LINE TYPE. | PAVT MARK REM (SQ FT) |
| STAGE I | | | | | |
| 274+65 | - | 276+75 | <u>E</u> | SOLID/SKIP | 109 |
| 276+60 | - | 280+70 | LT | SOLID | 171 |
| 280+50 | - | 282+65 | € | DOUBLE | 179 |
| STAGE II | | ····· | | | |
| 276+60 | - | 277+89 | RT | SOLID | 54 |
| 279+42 | - | 280+70 | RT | SOLID | 53 |
| | | | | TOTAL | 566 |

| | SHOULDER IMPROVEMENT SCHEDULE | | | | | | | | | | | | |
|-----------|-------------------------------|-----------|--------|-------------|-----------|-------------|--|--|--|--|--|--|--|
| | | | | BASE COURSE | PAVED | AGG WEDGE | | | | | | | |
| STA | TO | STA | SIDE | WIDENING 8" | SHLDR REM | SHLDR | | | | | | | |
| | | | | (SO YD) | (SQ YD) | (TON) | | | | | | | |
| 275+85.00 | ~ | 276+50.00 | RT | - | - | 2.5 | | | | | | | |
| 275+85.00 | - | 276+50.00 | LT | - | - | 2.5 | | | | | | | |
| 276+50.00 | - | 277+89,25 | RT | 85.1 | 85.1 | 5.3 | | | | | | | |
| 276+50.00 | - | 277+89.25 | LT | 85.1 | 85.1 | 5.3 | | | | | | | |
| 279+42.33 | ~ | 280+80.00 | RT | 84.1 | 84.1 | 5.2 | | | | | | | |
| 279+42.33 | - | 280+80.00 | LT | 84.1 | 84.1 | 5. <i>2</i> | | | | | | | |
| 280+80.00 | - | 281+60.00 | RT | - | - | 3.0 | | | | | | | |
| 280+80.00 | ~ | 281+60.00 | LT | - | - | 3.0 | | | | | | | |
| | | | TOTALS | 339 | 339 | 32.0 | | | | | | | |

| | | | | GUAI | RDRAIL SCHEDU | ILE | | |
|-----------|----|-----------|--------|--------------------------------|-----------------------------------|---|-------------------------------------|--|
| STA | то | STA | LOC. | GUARDRAIL REMOVAL (FOOT) | SPBGR, TY A 6' POSTS (FOOT) | TRAF. BARR. TERM. TY 1 SPC (EACH) | TRAF. BARR. TERM. TY 6 (EACH) | TERM. MARKER DIRECT APPLIED (EACH) |
| 275+86.75 | - | 277+76.75 | RT | 190 | 100 | 1 | 1 | 1 |
| 275+86.75 | - | 277+76.75 | LT | 190 | 100 | 1 | 1 | 1 |
| 279+54.83 | - | 281+44.83 | RT | 190 | 100 | 1 | 1 | 1 |
| 279+54.83 | - | 281+44.83 | LT | 190 | 100 | 1 | 1 | 1 |
| | | | TOTALS | 760 | 400 | 4 | 4 | 4 |

| FILE NAME * | USER NAME = dudleybm | DESIGNED ~ | REVISED - | | | INDEX | STANDA | ans can | ENERAL NOTES, | | F.A.P. | SECTION | COUNTY | TOTAL | SHEET |
|---|------------------------------------|------------|-----------|------------------------------|----------------------------------|---------|--------|---------|---------------|---------|--------|---------------------|------------|-------|-------|
| O:\OPERATIONS\Bridges\Bridgeplens.CAD\7 | Ji0 - 0680008 overlay\planshaatdgn | DRAWN - | REVISED - | STATE OF ILLINOIS | | - | | | | | 325 | (21) 8.48. 8-8-2i-1 | MONTCOMES | 3/1CE | 3 10. |
| | PLOT SCALE • 198,0088 1/ in. | CHECKED - | REVISED - | DEPARTMENT OF TRANSPORTATION | SIGNATURES, & QUANTITY SCHEDULES | | 1 | | CONTRA | CT NO. | 72.110 | | | | |
| Cefault | PLOT DATE : 3/21/2016 | DATE - | REVISED - | | SCALE: | SHEET _ | OF . | SHEETS | S STA. | TO STA. | 1 | ILLINOIS FEO. | ID PROJECT | | |

0-01623-6002 100% STATE

0-01623-6002 100% STATE

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| | Andrew State of the State of th | A. C. | BRIDGE |
| | 38 4 + 4 + 4 + 4 + 4 + 4 + 4 + 4 + 4 + 4 + | | 0014 |
| Mati | | QUANTITY | RURAL |
| BASE COURSE WIDENING 8" | SQ YD | 339 | 339 |
| BITUMINOUS MATERIALS (PRIME COAT) | POUND | 485 | 485 |
| | | | |
| HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT | SO YD | 400 | 400 |
| TEMPORARY RAMP | SO YD | 80 | 80 |
| HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50 | TON | 131 | 131 |
| | *** | | |
| PAVED SHOULDER REMOVAL | \$0 YD | 339 | 339 |
| AGGREGATE WEDGE SHOULDER, TYPE B | TON | 32 | 32 |
| CONCRETE REMOVAL | CU YD | 3. 7 | 3. 7 |
| CONCRETE SUPERSTRUCTURE | CU YD | 4.3 | 4. 3 |
| BRIDGE DECK GROOVING | SO YD | 510 | 510 |
| DESCRIPTION CONT. | 60.40 | 17 | |
| PROTECTIVE COAT | \$0.10 | 1 | 17 |
| REINFORCEMENT BARS, EPOXY COATED | POUND | 540 | 540 |
| BAR SPLICERS | EACH | 89 | 8 |
| PREFORMED JOINT STRIP SEAL | FOOT | 78 | 78 |
| | BITUMINOUS MATERIALS (PRIME COAT) HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT TEMPORARY RAMP HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50 PAVED SHOULDER REMOVAL AGGREGATE WEDGE SHOULDER, TYPE B CONCRETE REMOVAL CONCRETE SUPERSTRUCTURE BRIDGE DECK GROOVING PROTECTIVE COAT REINFORCEMENT BARS, EPDXY COATED | BASE COURSE WIDENING 8" BITUMINOUS MATERIALS (PRIME COAT) POUND HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT TEMPORARY RAMP SO YD HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50 TON PAVED SHOULDER REMOVAL AGGREGATE WEDGE SHOULDER, TYPE B TON CONCRETE REMOVAL CONCRETE SUPERSTRUCTURE CU YD PROTECTIVE COAT SO YD REINFORCEMENT BARS, EPOXY COATED POUND BAR SPLICERS EACH | BASE COURSE WIDENING 8" SO YD 339 BITUMINOUS MATERIALS (PRIME COAT) POUND 485 HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT SO YD 400 TEMPORARY RAMP SO YD 80 HOT-MIX ASPHALT SURFACE COURSE, MIX "D", NSO TON 131 PAVED SHOULDER REMOVAL SO YD 339 AGGREGATE WEDGE SHOULDER, TYPE B TON 32 CONCRETE REMOVAL CU YD 3.7 CONCRETE SUPERSTRUCTURE CU YD 4.3 BRIDGE DECK GROOVING SO YD 510 PROTECTIVE COAT SO YD 540 BAR SPLICERS EACH 8 |

| CODE | | | TOTAL | BRIDGE 0014 |
|--------------|--|--------|---|----------------|
| NO. | ITEM | UNIT | QUANTITY | RURAL |
| | | | | |
| 63000001 | STEEL PLATE BEAM GUARDRAIL. TYPE A. 6 FOOT POSTS | FOOT | 400 | 400 |
| | | | | |
| 63100085 | TRAFFIC BARRIER TERMINAL, TYPE 6 | EACH | 4 | 4 |
| | | | | |
| 63100167 | TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT | EACH | 4 | 4 |
| | | | | |
| 63200310 | CUARDRAIL REMOVAL | FOOT | 760 | 760 |
| | | | | |
| 67100100 | MOBILIZATION | L SUM | 1 | 1 |
| 70400405 | | | | |
| 70100405 | TRAFFIC CONTROL AND PROTECTION, STANDARD 701321 | EACH | 1 | 1 |
| 70100450 | TRAFFIC CONTROL AND PROTECTION, STANDARD 701201 | L SUM | 1 | 1 |
| | | | • | |
| 70100460 | TRAFFIC CONTROL AND PROTECTION, STANDARD 701306 | L SUM | 1 | |
| | | | | |
| 70100500 | TRAFFIC CONTROL AND PROTECTION, STANDARD TO1326 | L SUM | 1 | 1 |
| | | | | ·,,,,, |
| 70106500 | TEMPORARY BRIDGE TRAFFIC SIGNALS | EACH | 1 | 1 |
| | | | | |
| 70106700 | TEMPORARY RUMBLE STRIPS | EACH | 6 | 6 |
| | | | *************************************** | |
| 70106800 | CHANGEABLE MESSAGE BOARD | CAL MO | 4 | 4 |
| 70707170 | | | | |
| 70300100 | SHORT TERM PAVEMENT MARKING | FOOT | 80 | 80 |
| 70300150 | SHORT TERM PAVEMENT MARKING REMOVAL | SO FT | 27 | 27 |
| | TOTAL TENENT MENTAL TENENTAL | 30 11 | | ۵. : |
| 14 | | | | |

| *Special | 4 | He | m5 |
|----------|--------|----|---------|
| | F.A.P. | .] | CCCTION |

| FILE NAME : | USER NAME = dudlaybm | DESIGNED - | REVISED - |
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| 51\OPERATIONS\Bridges\Bridgeplens_CAD\70 | J10 - 0500000 overloy/plansheetdgn | DRAWN - | REVISED - |
| | PLOT SCALE = 100.0000 1/ 10. | CHECKED - | REVISED - |
| Default | PLOT 0415 = 3/24/2016 | DATE - | REVISED - |

SCALE:

| | SUMMARY | OF QU | ANTITIES | |
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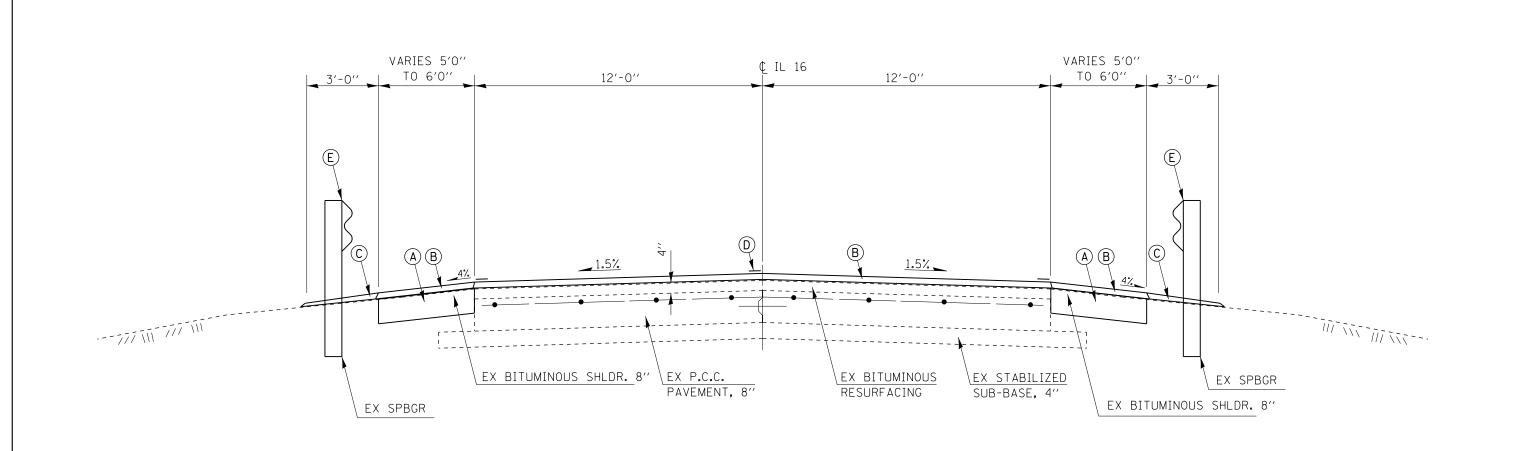
| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|----------------|----------------------|------------|-----------------|--------------|
| 325 | (21) BJR, B-R-2, J-1 | MONTGOMERY | 13 | 3 |
| | | CONTRAC | NO. | 72J10 |
| | ILLINDIS FED. A | D PROJECT | | |

0-01623-6002 100% STATE

| <u></u> | | | - the state of the |
|---|--|--|--|
| | | | BRIDGE |
| 1754 | 115177 | · - | 0014 |
| I I E M | UNII | QUANTITY | RURAL |
| TEMPORARY CONCRETE BARRIER | FOOT | 390 | 390 |
| RELOCATE TEMPORARY CONCRETE BARRIER | FOOT | 390 | 390 |
| IMPACT ATTENUATORS, TEMPORARY (FULLY REDIRECTIVE, NARROW), TEST LEVEL 3 | EACH | 2 | 2 |
| IMPACT ATTENUATORS, RELOCATE (FULLY REDIRECTIVE, NARROW), TEST LEVEL 3 | EACH | 2 | 2 |
| PAINT PAVEMENT MARKING - LINE 5" | FOOT | 2750 | 2750 |
| GUARDRAIL MARKERS, TYPE B | EACH | 8 | 8 |
| TERMINAL MARKER - DIRECT APPLIED | EACH | 4 | 4 |
| PAVEMENT MARKING REMOVAL | SO FT | 566 | 566 |
| RAISED REFLECTIVE PAVEMENT MARKER REMOVAL | EACH | 4 | 4 |
| WIDTH RESTRICTION SIGNING | L. SUM | V-14 | 1 |
| BRIDGE DECK SCARIFICATION, 1" | SO YD | 539 | 539 |
| BRIDGE DECK MICROSILICA CONCRETE OVERLAY, 2-1/2" | SO YD | 539 | 539 |
| DECK SLAB REPAIR (FULL DEPTH, TYPE I) | SQ YD | 5 | 5 |
| | | | *************************************** |
| | RELOCATE TEMPORARY CONCRETE BARRIER IMPACT ATTENUATORS, TEMPORARY (FULLY REDIRECTIVE, NARROW), TEST LEVEL 3 IMPACT ATTENUATORS, RELOCATE (FULLY REDIRECTIVE, NARROW), TEST LEVEL 3 PAINT PAVEMENT MARKING - LINE 5" GUARDRAIL MARKERS, TYPE B TERMINAL MARKER - DIRECT APPLIED PAVEMENT MARKING REMOVAL RAISED REFLECTIVE PAVEMENT MARKER REMOVAL WIDTH RESTRICTION SIGNING BRIDGE DECK SCARIFICATION, 1" BRIDGE DECK MICROSILICA CONCRETE OVERLAY, 2-1/2" | TEMPORARY CONCRETE BARRIER FOOT RELOCATE TEMPORARY CONCRETE BARRIER FOOT IMPACT ATTENUATORS, TEMPORARY (FULLY REDIRECTIVE, NARROW), TEST LEVEL 3 EACH IMPACT ATTENUATORS, RELOCATE (FULLY REDIRECTIVE, NARROW), TEST LEVEL 3 EACH PAINT PAVEMENT MARKING - LINE 5" FOOT GUARDRAIL MARKERS, TYPE B EACH TERMINAL MARKER - DIRECT APPLIED EACH PAVEMENT MARKING REMOVAL RAISED REFLECTIVE PAVEMENT MARKER REMOVAL WIOTH RESTRICTION SIGNING L. SUM BRIDGE DECK SCARIFICATION, 1" SO YD BRIDGE DECK MICROSILICA CONCRETE OVERLAY, 2-1/2" SO YD | TEMPORARY CONCRETE BARRIER FOOT 390 RELOCATE TEMPORARY CONCRETE BARRIER FOOT 390 IMPACT ATTENUATORS, TEMPORARY (FULLY REDIRECTIVE, NARROW), TEST LEVEL 3 EACH 2 IMPACT ATTENUATORS, RELOCATE (FULLY REDIRECTIVE, NARROW), TEST LEVEL 3 EACH 2 PAINT PAVEMENT MARKING - LINE 5" FOOT 2750 GUARDRAIL MARKERS, TYPE B EACH 8 TERMINAL MARKER - DIRECT APPLIED EACH 4 PAVEMENT MARKING REMOVAL SO FT 566 RAISED REFLECTIVE PAVEMENT MARKER REMOVAL EACH 4 WIDTH RESTRICTION SIGNING L. SUM 1 BRIDGE DECK SCARIFICATION, 1" SO YD 539 BRIDGE DECK MICROSILICA CONCRETE OVERLAY, 2-1/2" SO YD 539 |

* Specially Hems

| FIL | E NAME 3 | USER NAME = dudlaybe | DESIGNED - | REVISEO - | | | F.A.P. SECTION COUNTY TOTAL SHEET |
|-----|--------------------------------------|-------------------------------------|------------|-----------|------------------------------|---------------------------------|--|
| Div | DPERATIONS\Bridges\Bridgeplane_CAD\7 | J10 - 0680008 overley\planshest.dgn | DRAWN - | REVISED - | STATE OF ILLINOIS | SUMMARY OF QUANTITIES | 725 (21) B IR B-B-2 (-1) MONTCOMERY 13 4 |
| 1 | | PLOT SCALE = 100.8060 : / in. | CHECKED - | REVISED - | DEPARTMENT OF TRANSPORTATION | | CONTRACT NO. 72JIO |
| 0., | oult | PLOT DATE * 3/24/2016 | DATE - | REVISED - | | SCALE: SHEET _ OF _ SHEETS STA. | TO STA, ILLINOIS FED. AID PROJECT |



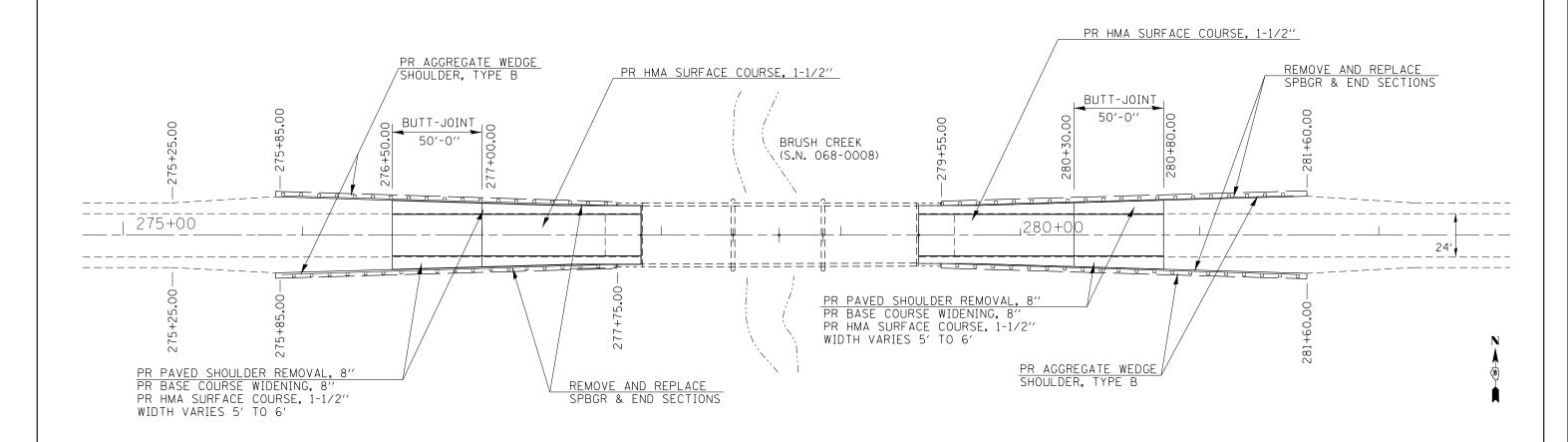
STA. 276+50.00 TO STA. 277+69.25

BRIDGE APPROACH PAVEMENT:
STA. 277+69.25 TO STA. 277+89.25
BRIDGE WORK:
STA. 277+89.25 TO STA. 279+42.33
BRIDGE APPROACH PAVEMENT:
STA. 279+42.33 TO STA. 279+62.33
STA. 279+32.33 TO STA. 280+80.00

PROPOSED LEGEND

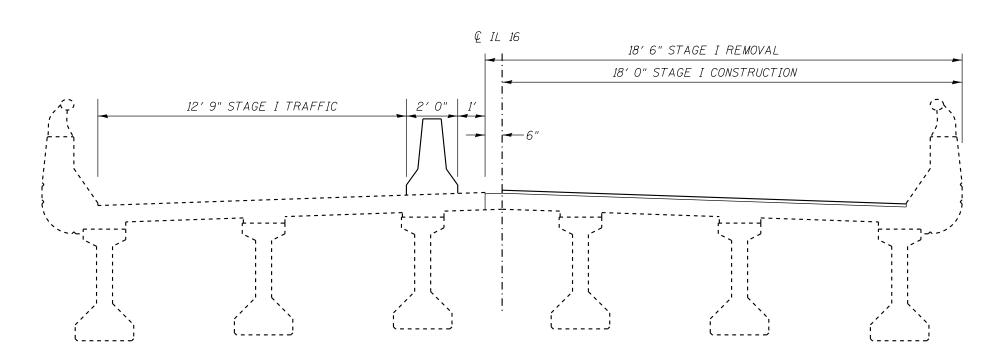
- A BASE COURSE WIDENING, 8"
- B HMA SURFACE SOURSE, 1-1/2"
- © AGGREGATE WEDGE SHOULDER TYPE B
- (D) PAINT PAVEMENT MARKING LINE, 5"
- (E) STEEL PLATE BEAM GUARDRAIL TYPE A

| FILE NAME = | USER NAME = dudleybm | DESIGNED - | REVISED - | | | | | | F.A.P. | SECTION | COUNTY | TOTAL SHEET |
|--|---------------------------------------|------------|-----------|------------------------------|--------|-------|-----------------------|--------|--------|----------------------|------------|--------------|
| O:\OPERATIONS\Bridges\Bridgeplans_CAD\ | 72J10 - 0680008 overlay\plansheet.dgn | DRAWN - | REVISED - | STATE OF ILLINOIS | | | TYPICAL CROSS SECTION | | 325 | (21) BJR. B-R-2. J-1 | MONTGOMERY | Y 13 5 |
| | PLOT SCALE = 100.0000 ' / 10. | CHECKED - | REVISED - | DEPARTMENT OF TRANSPORTATION | | | | | | | CONTRAC | CT NO. 72J10 |
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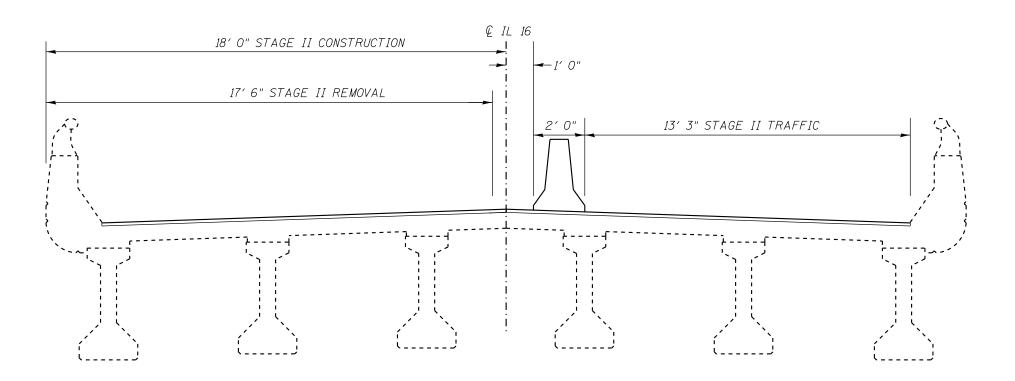


ROADWAY IMPROVEMENT PLAN

| FILE NAME = | USER NAME = dudleybm | DESIGNED - | REVISED - | | | | | | | F.A.P. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---|-------------------------------------|------------|-----------|------------------------------|--------|---------|--------|-------------|---------|--------|----------------------|-------------|-----------------|--------------|
| 0:\OPERATIONS\Bridges\Bridgeplans_CAD\7 | J10 - 0680008 overlay\plansheet.dgn | DRAWN - | REVISED - | STATE OF ILLINOIS | | | ROADW | AY PLAN | | 325 | (21) BJR. B-R-2. J-1 | MONTGOMERY | | 6 |
| | PLOT SCALE = 100.0000 '/ in. | CHECKED - | REVISED - | DEPARTMENT OF TRANSPORTATION | | | | | | | | CONTRAC | | 2J10 |
| Default | PLOT DATE = 3/24/2016 | DATE - | REVISED - | | SCALE: | SHEET _ | OF _ S | SHEETS STA. | TO STA. | | ILLINOIS FED. A | AID PROJECT | | |

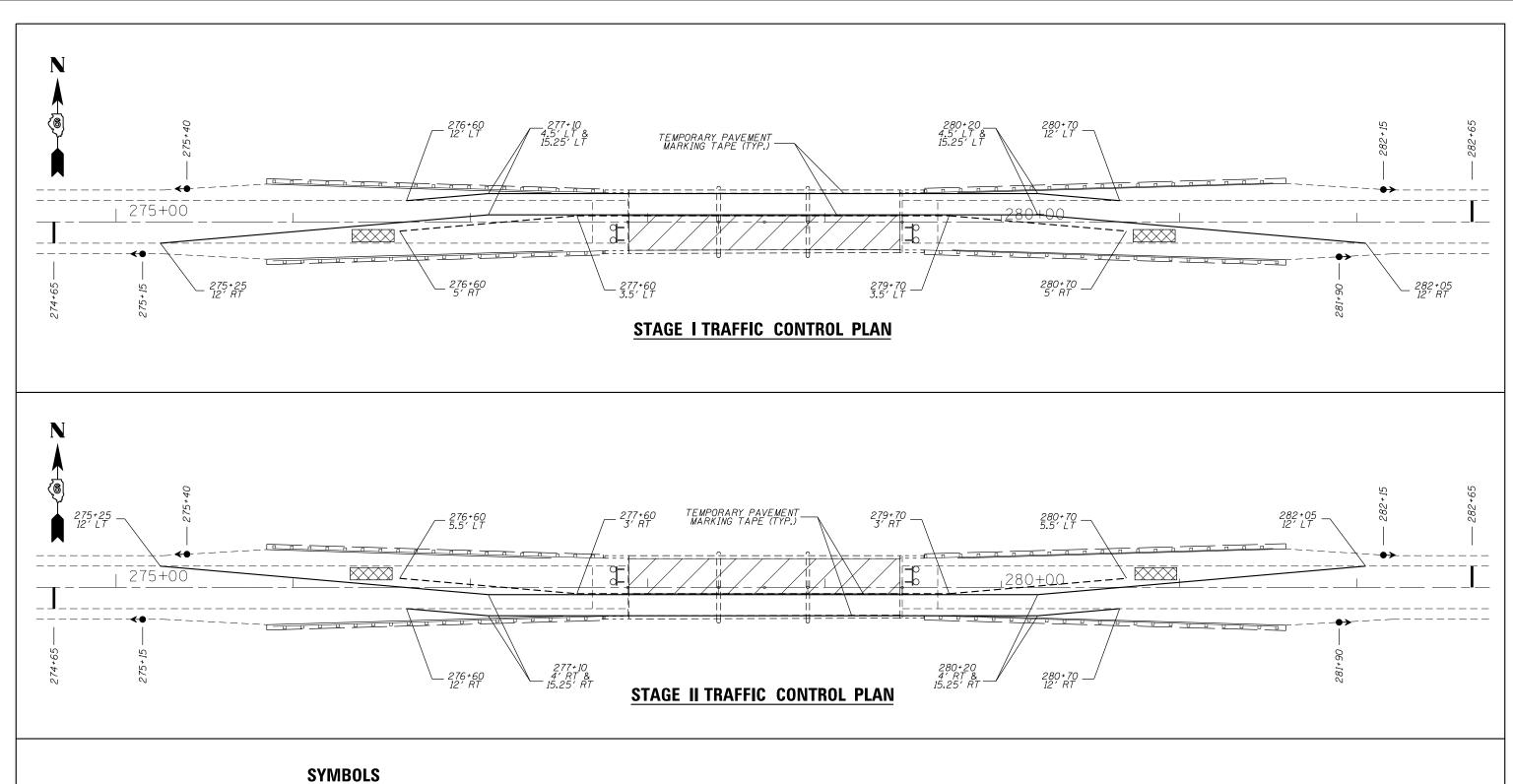


STAGE I CROSS SECTION (LOOKING EAST)



STAGE II CROSS SECTION (LOOKING EAST)

| FILE NAME = | USER NAME = dudleybm | DESIGNED - | REVISED - | | | | RTE. | SECTION | COUNTY | SHEETS NO | 10. | |
|---|---------------------------------------|------------|-----------|------------------------------|---|--------------|------|---------------------------|------------|------------|-----|--|
| 0:\OPERATIONS\Bridges\Bridgeplans_CAD\7 | 72J10 - 0680008 overlay\plansheet.dgn | DRAWN - | REVISED - | STATE OF ILLINOIS | | STAGING PLAN | 325 | (21) BJR, B-R-2, J-1 | MONTGOMERY | 13 | 7 | |
| | PLOT SCALE = 100.0000 '/ in. | CHECKED - | REVISED - | DEPARTMENT OF TRANSPORTATION | | | | | CONTRACT | T NO. 72J1 | 110 | |
| Default | PLOT DATE = 3/24/2016 | DATE - | REVISED - | | SCALE: SHEET _ OF _ SHEETS STA. TO STA. | | | ILLINOIS FED. AID PROJECT | | | | |



WORK AREA

TEMPORARY CONCRETE BARRIER

IMPACT ATTENUATOR

TRAFFIC SIGNAL

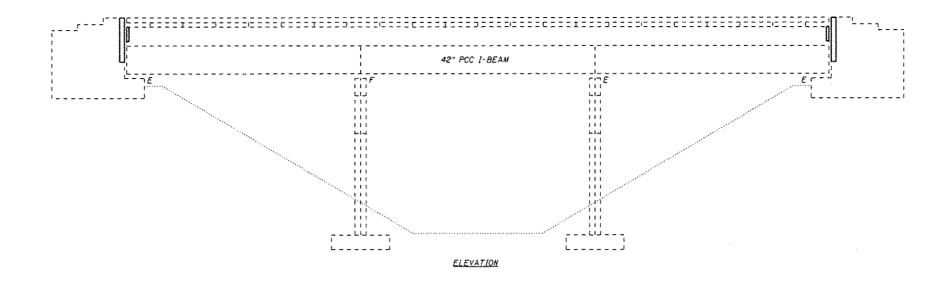
TYPE III BARRICADE WITH FLASHING LIGHTS

TRAFFIC CONTROL NOTES:

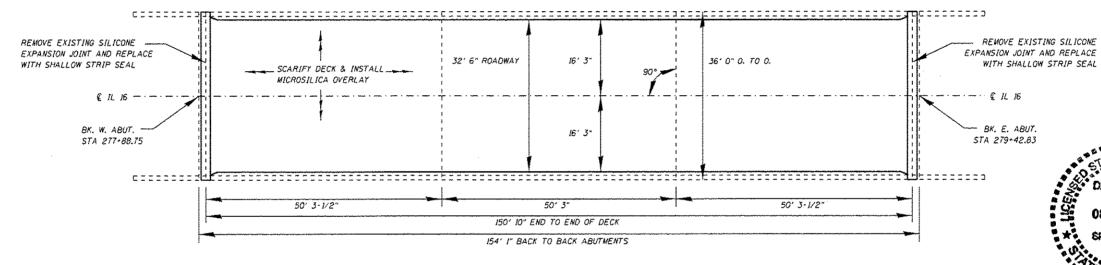
I. TRAFFIC CONTROL DEVICES NOT SHOWN IN THIS DETAIL SHALL BE PER STANDARDS 701321. DEVICES AND TEMPORARY PAVEMENT MARKINGS SHOWN IN THIS DETAIL SHALL BE INCLUDED IN THE COST OF TRAFFIC CONTROL AND PROTECTION, STANDARD 701321. IMPACT ATTENUATORS, TEMPORARY RUMBLE STRIPS, AND TEMPORARY CONCRETE BARRIER SHALL BE PAID SEPARATELY.

2. TEMPORARY CONCRETE BARRIER OFFSETS GIVEN IN THIS DETAIL REFER TO THE EDGE OF THE BARRIER NEAREST TO LIVE TRAFFIC.

| FILE NAME = | USER NAME = dudleybm | DESIGNED - | REVISED - | | | | | F.A.P. | SECTION | COUNTY TOTAL SHEET |
|---|--------------------------------------|------------|-----------|------------------------------|--------|--------------------------|---------|--------|---------------------------------------|--------------------|
| O:\OPERATIONS\Bridges\Bridgeplans_CAD\7 | 2J10 - 0680008 overlay\plansheet.dgn | DRAWN - | REVISED - | STATE OF ILLINOIS | | TRAFFIC CONTROL PLAN | | 325 | (21) BJR. B-R-2. J-1 | MONTGOMERY 13 8 |
| | PLOT SCALE = 100.0000 '/ in. | CHECKED - | REVISED - | DEPARTMENT OF TRANSPORTATION | | | | | · · · · · · · · · · · · · · · · · · · | CONTRACT NO. 72J10 |
| Default | PLOT DATE = 3/24/2016 | DATE - | REVISED - | | SCALE: | SHEET _ OF _ SHEETS STA. | TO STA. | | ILLINOIS FED. A | AID PROJECT |







PLAN

GENERAL NOTE:

ALL STRUCTURAL STEEL SHALL BE AASHTO M-270 GRADE 36, UNLESS OTHERWISE NOTED.

REINFORCEMENT BARS DESIGNATED (E) SHALL BE EPOXY COATED.

PRIOR TO POURING THE NEW CONCRETE DECK, ALL HEAVY OR LOOSE MILL SCALE AND OTHER LOOSE OR POTENTIALLY DETRIMENTAL FOREIGN MATERIAL SHALL BE REMOVED FROM THE SURFACES IN CONTACT WITH CONCRETE, TIGHTLY ADHERED PAINT MAY REMAIN UNLESS OTHERWISE NOTED. REMOVAL SHALL BE ACCOMPLISHED BY METHODS THAT WILL NOT DAMAGE THE STEEL AND THE COST WILL BE INCLUDED IN CONCRETE REMOVAL.

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 THE SCOPE OF WORK, HOWEVER, THE CONTRACTOR WILL BE PAID FOR THE QUANTITY ACTUALLY FURNISHED AT THE UNIT PRICE BID FOR THE WORK.

EXISTING REINFORCEMENT BARS EXTENDING INTO THE REMOVAL AREA SHALL BE CLEANED, STRAIGHTENED, AND INCORPORATED INTO THE NEW CONSTRUCTION, ANY REINFORCEMENT BARS THAT ARE DAMAGED DURING CONCRETE REMOVAL SHALL BE REPLACED WITH AN APPROVED BAR SPLICER OR ANCHORAGE SYSTEM. COST INCLUDED WITH CONCRETE REMOVAL.

JOINT OPENINGS SHALL BE ADJUSTED ACCORDING TO ARTICLE 520.04 OF THE STANDARD SPECIFICATIONS WHEN THE DECK IS POURED AT AN AMBIENT TEMPERATURE OTHER THAN 50°F.

NO FULL DEPTH DECK REPAIRS ARE ANTICIPATED. THE QUANTITY FOR DECK SLAB REPAIR (FULL DEPTH, TYPE I) IS INCLUDED AS A PRECAUTION IN CASE HYDRO-SCARIFICATION REVEALS THE NEED FOR FULL DEPTH REPAIRS. THE ENGINEER SHALL SHOW ANY ACTUAL LOCATIONS OF FULL DEPTH REPAIRS ON AS-BUILT PLANS.

THE ABUTMENT SURFACE IN THE AREAS OF EXPANSION JOINT REPLACEMENT SHALL HAVE A TINED FINISH AS PER ARTICLE 420.09(a)(3)) OF THE STANDARD SPECIFICATIONS, COST INCLUDED WITH CONCRETE SUPERSTRUCTURE. THE DECK SURFACE IN THE AREAS OF EXPANSION JOINT REPLACEMENT SHALL BE GROOVED WITH THE DECK OVERLAY PER ARTICLE 503.16(d)(3)(b) OF THE STANDARD SPECIFICATIONS AND SHALL BE PAID AT THE BID PRICE PER SOURCE YARD FOR "BRIDGE DECK GROOVING."

PROTECTIVE COAT SHALL ONLY BE APPLIED TO THE DECK AND PARAPETS ADJACENT TO THE PROPOSED EXPANSION JOINTS AND NOT THE MICROSILICA OVERLAY.

TOTAL BILL OF MATERIAL (068-0008)

DAVID CARL

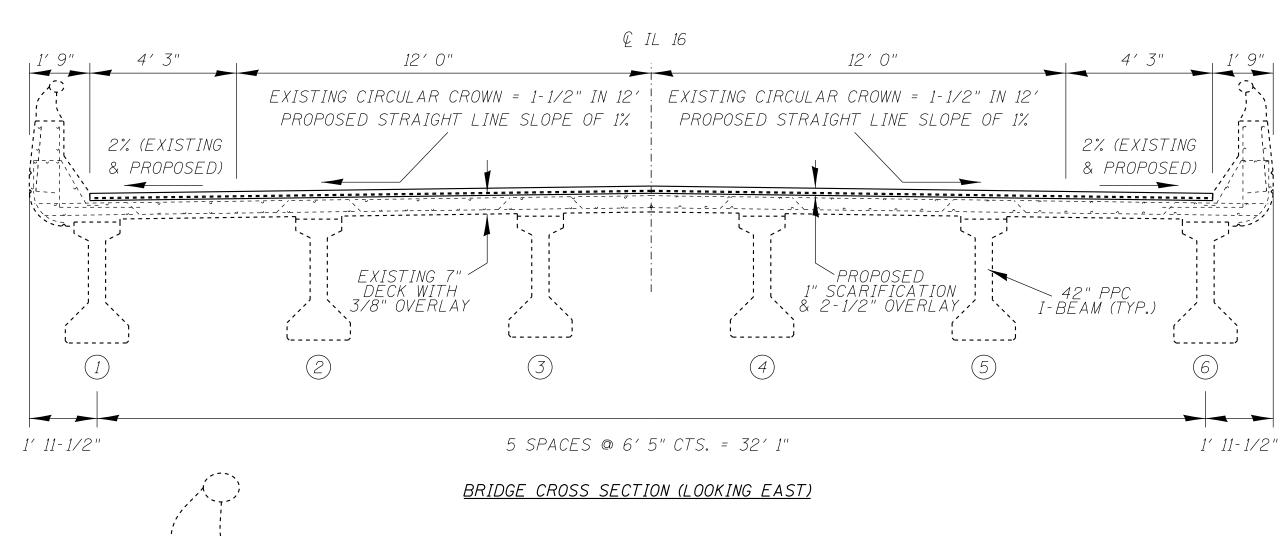
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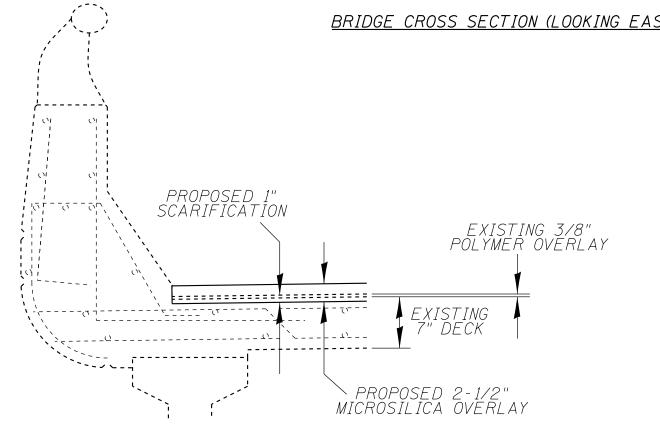
SPRINGFIELD

ILLINOIS

| ITEM | UNIT | OUANTITY |
|--|---------|----------|
| Concrete Removal | Cu. Yd. | 3.7 |
| Concrete Superstructure | Cu. Yd. | 4,3 |
| Bridge Deck Grooving | Sq. Yd. | 510 |
| Reinforcement Bars, Epoxy Coated | Pound | 540 |
| Bar Splicers | Each | 8 |
| Preformed Joint Strip Seal | Foot | 78 |
| Bridge Deck Scarification, 1" | Sq. Yd. | 539 |
| Bridge Deck Microsilica Concrete Overlay, 2-1/2" | Sq. Yd. | 539 |
| Deck Slab Repair (Full Depth, Type I) | Sq. Yd. | 5 |
| Protective Coat | Şq. Yd. | 17 |

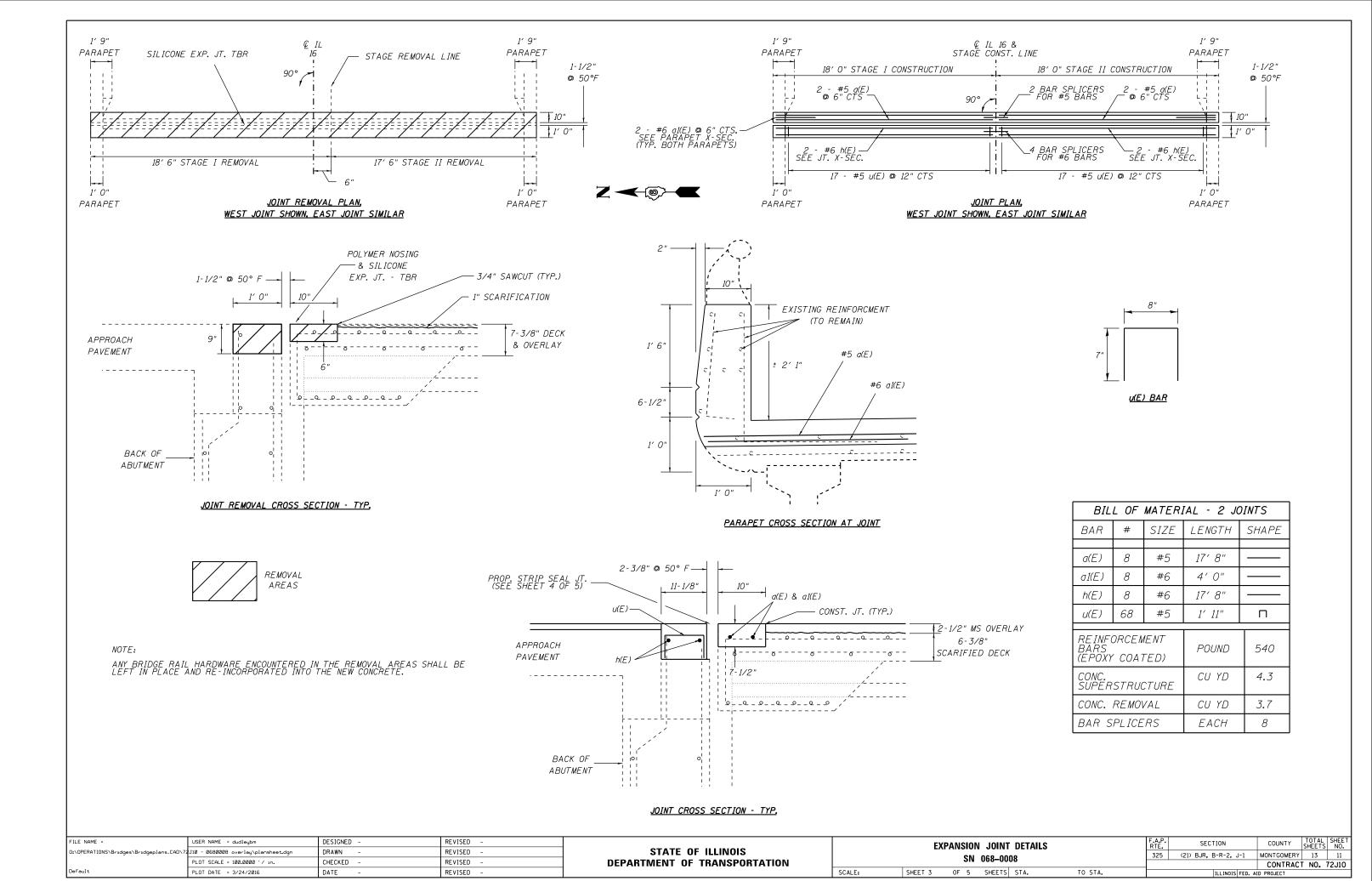
| | THE NAME : | USER HAME > dualayom | DESIGNED - BMD | REVISED - | | GENERAL PLAN & ELEVATION | | f, | Δ.Ρ. | SECTION | COUNTY SHEETS | HEET NO. | | | |
|-----|---|-------------------------------------|----------------|-----------|------------------------------|--------------------------|---------|------|---------|----------------------|---------------|-------------|---------------|-----------------|-----|
| - 1 | 0:\OPERATIONS\Bridges\Bridgeplans_CAO\7 | J19 - 0580008 averley/plansheet.dgn | DRAWN - | REVISED - | STATE OF ILLINOIS | CAL DER DAGO | | 73 | 325 | (21) BJR, B-R-2, J-1 | MONTGOMERY 13 | 9 | | | |
| - 1 | | PLOT SCALE * 100.0000 '/ in | CHECKED - SMR | REVISED - | DEPARTMENT OF TRANSPORTATION | | ·• | 218 | 000-000 | | | | | CONTRACT NO. 72 | J10 |
| - 1 | Pefaulz | PLOT DATE + 3/24/2016 | DATE - | REVISED - | i i | SCALE: | SHEET 1 | OF 5 | SHEETS | STA. TO STA. | | | ILLINOIS FED. | AID PROJECT | |

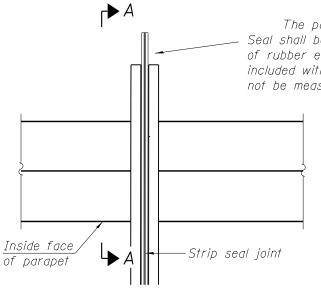




| <u>OVERLAY</u> | <u>CROSS</u> | <u>SECTION</u> | |
|----------------|--------------|----------------|--|
| | | | |

| FILE NAME = | USER NAME = dudleybm | DESIGNED - | REVISED - | | | BRIDGE DECK CROSS SECTION | RTE. | SECTION | COUNTY | SHEETS | NO. |
|---|--------------------------------------|------------|-----------|------------------------------|--------|----------------------------------|------|----------------------|-------------|----------|------|
| 0:\OPERATIONS\Bridges\Bridgeplans_CAD\7 | 2J10 - 0680008 overlay\plansheet.dgn | DRAWN - | REVISED - | STATE OF ILLINOIS | | SN 068-0008 | 325 | (21) BJR, B-R-2, J-1 | MONTGOMERY | 13 | 10 |
| | PLOT SCALE = 100.0000 '/ in. | CHECKED - | REVISED - | DEPARTMENT OF TRANSPORTATION | | 21/1 000-0000 | | | CONTRACT | T NO. 77 | 2J10 |
| Default | PLOT DATE = 3/24/2016 | DATE - | REVISED - | | SCALE: | SHEET 2 OF 5 SHEETS STA. TO STA. | | ILLINOIS FED. A | AID PROJECT | | |





PLAN THROUGH PARAPET

The pay limits for Preformed Joint Strip Seal shall be to the end of the steel plate. The 6" of rubber extending past the end of steel shall be included with Preformed Joint Strip Seal and shall not be measured for payment.

Top of locking edge rail

Top of locking edge rail

Top of deck

SECTION A-A

end of steel

Notes

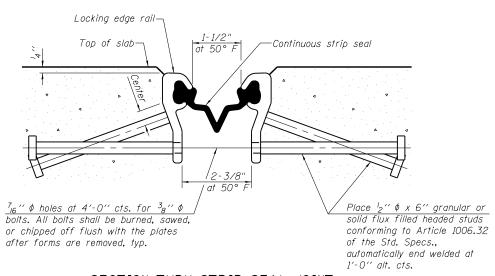
The strip seal shall be made continuous and shall have a minimum thickness of $^{l}4$ ". The configuration of the strip seal shall match the configuration of the Locking Edge Rails.

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

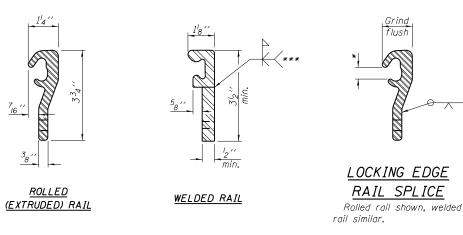
The inside of the Locking Edge Rail groove shall be free of weld residue. Locking Edge Rails may be spliced at slope discontinuities and stage construction joints.

The manufacturer's recommended installation methods shall be followed.
All steel components shall be galvanized after fabrication according to
Article 520.03 of the Standard Specifications.

Maximum space between rail segments at stage lines shall be 3 ₁₆ $^{\prime\prime}$, sealed with a suitable sealant



<u>SECTION THRU STRIP SEAL JOINT</u> <u>FOR OVERLAY OVER DECK BEAMS</u>



LOCKING EDGE RAIL

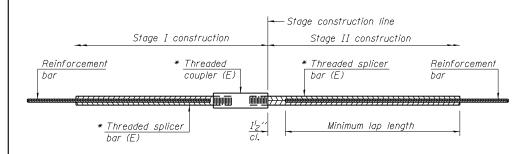
- * Omit weld at seal opening.
- ** The minimum dimension shall be 1_2^{l} for installation purposes.
- *** Back gouge not required if complete joint penetration is verified by mock-up.

RILL OF MATERIAL

| BILL OF WAT | LNIAL | |
|----------------------------|-------|-------|
| Item | Unit | Total |
| Preformed Joint Strip Seal | Foot | 78 |
| | | |

EJ-SSJ

| FILE NAME = | USER NAME = dudleybm | DESIGNED - | REVISED - | | PREFORMED JOINT STRIP SEAL SN 068-0008 SCALE: SHEET 4 OF 5 SHEETS STA. TO STA. | | F.A.P. | SECTION | COUNTY TOTAL SHEET |
|---|-------------------------------------|------------|-----------|------------------------------|--|--|--------|----------------------|--------------------|
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| | PLOT SCALE = 100.0000 '/ in. | CHECKED - | REVISED - | DEPARTMENT OF TRANSPORTATION | | | | | CONTRACT NO. 72J10 |
| Default | PLOT DATE = 3/24/2016 | DATE - | REVISED - | | | | | ILLINOIS FED. A | ID PROJECT |

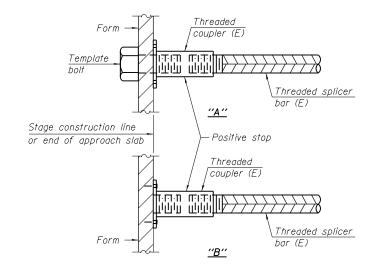


STANDARD BAR SPLICER ASSEMBLY

Threaded splicer bar length = min. lap length + 1^{l_2} " + thread length

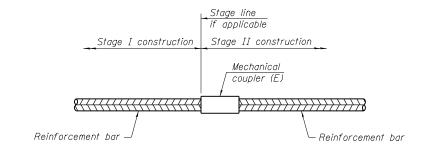
* Epoxy not required on Bar Splicer Assembly components used in conjunction with black bars.

| Location | Bar size | No. assemblies required | Minimum lap length | | | |
|---------------------|-------------|----------------------------|-----------------------|--|--|--|
| Abuts. (deck side) | #5 | 4 | 3′ 6" | | | |
| Abuts. (appr. side) | #6 | 4 | 4′0" | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |



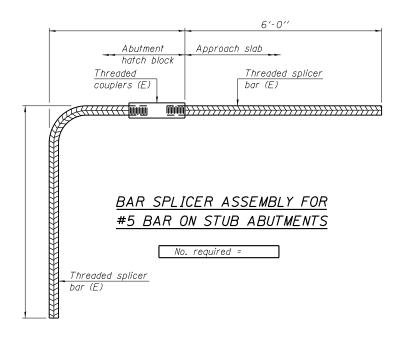
INSTALLATION AND SETTING METHODS

"A": Set bar splicer assembly by means of a template bolt.
"B": Set bar splicer assembly by nailing to wood forms or cementing to steel forms.
(E): Indicates epoxy coating.



STANDARD MECHANICAL SPLICER

| Location | Bar size | No. assemblies required | | | | |
|----------|-------------|-------------------------|--|--|--|--|
| | | | | | | |
| | | | | | | |
| | | | | | | |



NOTES

Splicer bars shall be deformed $\overline{\text{with thre}}$ and have a minimum 60 ksi yield strength.

All reinforcement shall be lapped and tied to the splicer bars.

Bar splicer assemblies shall be epoxy coated according to the requirements for reinforcement bars. See Section 508 of the Standard Specifications.

See approved list of bar splicer assemblies and mechanical splicers for alternatives.

BSD-1

6-8-15

| FILE NAME = | USER NAME = dudleybm | DESIGNED - | REVISED - | | BAR SPLICER DETAILS SN 068-0008 | | F.A.P. | SECTION | COUNTY | TOTAL S | HEET NO. |
|---|-------------------------------------|------------|-----------|------------------------------|---|--|--------|---------------------------|------------|---------|-------------|
| 0:\OPERATIONS\Bridges\Bridgeplans_CAD\7 | J10 - 0680008 overlay\plansheet.dgn | DRAWN - | REVISED - | STATE OF ILLINOIS | | | 325 | (21) BJR, B-R-2, J-1 | MONTGOMERY | | 13 |
| | PLOT SCALE = 100.0000 '/ in. | CHECKED - | REVISED - | DEPARTMENT OF TRANSPORTATION | | | | CONTRACT NO. 7 | | | .J10 |
| Default | PLOT DATE = 3/24/2016 | DATE - | REVISED - | | SCALE: SHEET 5 OF 5 SHEETS STA. TO STA. | | | ILLINOIS FED. AID PROJECT | | | |