

GENERAL NOTES

- 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.
- 2. FOR STABILIZATION, ALL TYPE III BARRICADES SHALL REQUIRE A MINIMUM OF FOUR SAND BAGS PER BARRICADE.
- ON EXISTING PAVEMENT WHICH MAY BE SUPERELEVATED, THE NEW HMA PAVEMENT SHALL BE BUILT WITH THE SAME SUPERELEVATION UNLESS NEW SUPERELEVATION RATES ARE GIVEN ON THE PLANS.
- 4. CONSTRUCTION ASSOCIATED WITH STRUCTURES 003-0051 AND 003-0057 SHALL NOT TAKE PLACE AT THE SAME TIME, BUT WILL BE DONE SEQUENTIALLY.
- 5. FULL-DEPTH DECK PATCHES EXPOSED AFTER THE HYDRO-SCARIFICATION WILL BE PAID FOR ACCORDING TO ARTICLE 109.04 OF THE STANDARD SPECIFICATIONS.

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

| GRANULAR MATERIALS | 2.05 | TONS / CU YD | | | |
|---------------------------------|-------|---------------------------|--|--|--|
| BIT MATERIALS (PRIME COAT) | 0.25 | | | | |
| ON AGGREGATE BASES | 0.25 | LB / 3Q FI | | | |
| BITUMINOUS MATERIALS | 0.05 | | | | |
| (TACK COAT) ON MILLED/PCC BASES | 0.05 | | | | |
| BITUMINOUS MATERIALS | 0.025 | | | | |
| (TACK COAT) ON HMA LIFTS | 0.025 | LB / 3Q FI | | | |
| HMA RESURFACING | 112 | LBS / SQ YD / IN | | | |
| SHORT TERM PAVEMENT MARKING | 10 | FT /100 FT OF APPLICATION | | | |

COMMITMENTS

NONE

ILLINOIS STATE LAW REQUIRES A 48-HOUR NOTICE BE GIVEN TO ALL UTILITIES WITHIN THE PROJECT AREA BEFORE DIGGING. FIELD MARKING OF FACILITIES MAY BE OBTAINED BY CONTACTING J.U.L.I.E. OR FOR NON-MEMBERS THE UTILITY COMPANY DIRECTLY. AGENCIES KNOWN TO HAVE FACILITIES WITHIN THE PROJECT AREA ARE AS FOLLOWS: * AMEREN ILLINOIS - GAS & ELECTRIC (AERIAL & BURIED) * AT&T ILLINOIS - COMMUNICATIONS (AERIAL & BURIED) * CITY OF GREENVILLE - WATER & SANITARY SEWER (BURIED) * NEW WAVE COMMUNICATIONS - CABLE TV (AERIAL & BURIED) MEMBERS OF J.U.L.I.E. CALL TOLL FREE (800) 892-0123 OR 811 AND ARE INDICATED BY *. NON-J.U.L.I.E. MEMBERS MUST BE NOTIFIED INDIVIDUALLY.

000001-07

| 001001-02 |
|-----------|
| 001006 |
| 280001-07 |
| 606001-07 |
| 630001-12 |
| 631011-10 |
| 631031-16 |
| 701001-02 |
| 701006-05 |
| 701201-05 |
| 701301-04 |
| 701321-18 |
| 701326-04 |
| 701901-08 |
| 704001-08 |
| 725001-01 |
| 780001-05 |
| 781001-04 |
| 782006-01 |
| 701501-06 |
| BLR 21-9 |
| |
| |

| | POLY SURFACE | BASE COURSE, BASE COURSE WIDE | | | | |
|----------------------|-----------------------|----------------------------------|--|--|--|--|
| AC/PG | SBS PG 76-22 | PG 64-22 | | | | |
| RAP % (MIX) | SEE SPECIAL PROVISION | SEE SPECIAL PROVISION | | | | |
| DESIGN AIR VOIDS | 4.0% @ NDES=70 | 4.0% @ NDES=70 | | | | |
| MIX COMPOSITION | IL 9.5 | IL 19.0 | | | | |
| FRICTION AGG | MIXTURE "D" | MIXTURE "B" | | | | |
| QUALITY MGMT PROGRAM | QC/QA | QC/QA | | | | |
| | | | | | | |

SEE SPECIAL PROVISIONS FOR RAP/RAS REQUIREMENTS

| FILE NAME = | USER NAME = bmarkunas | DESIGNED - RMM | REVISED - | | HIGH | WAY STANDARDS GENERAL NOTES | F.A.P. | SECTION | COUNTY | TOTAL SHEET |
|--|--|------------------|-----------|------------------------------|------------|----------------------------------|--------|---------------------------|----------|-------------|
| \\farnsworthgrp.com\data\Archive_CHA\2011\111004-35\0 | _Drawings\DGN\CAD_Sheets\D876N18-sht-002-gennote.dgn | DRAWN - DC | REVISED - | STATE OF ILLINOIS | | | 42 | 139BR-2 | BOND | 36 2 |
| | PLOT SCALE = 40.0000 ' / in. | CHECKED - MJB | REVISED - | DEPARTMENT OF TRANSPORTATION | | AND COMMITTIVIENTS | | | CONTRACT | NO. 76N18 |
| Default | PLOT DATE = 12/11/2019 | DATE - 11/4/2019 | REVISED - | | SCALE: NTS | SHEET 1 OF 1 SHEETS STA. TO STA. | | ILLINOIS FED. AID PROJECT | | |
| | • | | • | • | | | | | | |

HIGHWAY STANDARDS

STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS AREAS OF REINFORCEMENT BARS DECIMAL OF AN INCH AND OF A FOOT TEMPORARY EROSION CONTROL SYSTEMS CONCRETE CURB TYPE B AND COMB. CONC. CURB AND GUTTER STEEL PLATE BEAM GUARDRAIL TRAFFIC BARRIER TERMINAL, TYPE 2 TRAFFIC BARRIER TERMINAL, TYPE 6 OFF-ROAD OPERATIONS, 2L, 2W, MORE THAN 15' (4.5 M) AWAY OFF-ROAD OPERATIONS, 2L, 2W, 15' (4.5 M) TO 24" (600 MM) FROM PAVEMENT EDGE LANE CLOSURE, 2L, 2W, DAY ONLY, FOR SPEEDS > 45 MPH LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS LANE CLOSURE, 2L, 2W, BRIDGE REPAIR WITH BARRIER LANE CLOSURE, 2L, 2W, PAVEMENT WIDENING, FOR SPEEDS > 45 MPH TRAFFIC CONTROL DEVICES TEMPORARY CONCRETE BARRIER OBJECT AND TERMINAL MARKERS TYPICAL PAVEMENT MARKINGS TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS GUARDRAIL AND BARRIER WALL REFLECTOR MOUNTING DETAILS URBAN LANE CLOSURE, 2L, 2W UNDIVIDED TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES FOR CONSTRUCTION ON RURAL LOCAL HIGHWAYS

MIXTURES TABLE

REV. - MS

| | | | | | 80% FED / 2 | 20% STATE |
|----------------|----------------------|--|-------|-------|-----------------------------------|-----------------------------------|
| CODE NUMBER | | ITEM | UNIT | TOTAL | STRUCTURE NO. 003-0051 0013 | STRUCTURE NO. 003-0057 0013 |
| 20200100 | EARTH EXCAVATION | | CU YD | 10 | 0 | 10 |
| 1 | | | | | | |
| 20200500 | EARTH EXCAVATION (W | /IDENING) | CU YD | 50 | 20 | 30 |
| 28100109 | STONE RIPRAP, CLASS | A5 | SQ YD | 1913 | 1664 | 249 |
| 28200200 | FILTER FABRIC | | SQ YD | 1913 | 1664 | 249 |
| 35501332 | HOT-MIX ASPHALT BAS | E COURSE, 12" | SQ YD | 53 | 0 | 53 |
| 35600724 | HOT-MIX ASPHALT BAS | e course widening, 12" | SQ YD | 420 | 181 | 239 |
| 40600290 | BITUMINOUS MATERIAL | S (TACK COAT) | POUND | 1427 | 580 | 847 |
| 40600982 | HOT-MIX ASPHALT SUR | FACE REMOVAL - BUTT JOINT | SQ YD | 838 | 284 | 554 |
| 40600990 | TEMPORARY RAMP | | SQ YD | 90 | 40 | 50 |
| 40604162 | POLYMERIZED HOT-MIX | ASPHALT SURFACE COURSE, IL-9.5, MIX "D", N70 | TON | 365 | 136 | 229 |
| 44000100 | PAVEMENT REMOVAL | | SQ YD | 49 | 0 | 49 |
| 44004250 | PAVED SHOULDER REN | IOVAL | SQ YD | 256 | 136 | 120 |
| 48102100 | AGGREGATE WEDGE S | HOULDER, TYPE B | TON | 3 | 1 | 2 |
| 50102400 | CONCRETE REMOVAL | | CU YD | 140.4 | 9.4 | 131.0 |
| 50300255 | CONCRETE SUPERSTRU | CTURE | CU YD | 143.5 | 10.5 | 133.0 |
| 50300260 | BRIDGE DECK GROOVI | NG | SQ YD | 809 | 0 | 809 |
| 50500405 | FURNISHING AND EREC | TING STRUCTURAL STEEL | POUND | 1230 | 1230 | 0 |
| 50606701 | CLEANING AND PAINTIN | IG STRUCTURAL STEEL, LOCATION 1 | L SUM | 1 | 1 | 0 |
| REVIS | ED _ | | 1 | | | |

\bigtriangleup SHOWS ITEMS THAT ARE SPECIALTY AND NOT COMPLETED BY GENERAL CONTRACTOR

| FILE NAME = | USER NAME = bmarkunas | DESIGNED - RMM REVISED - | | | | | | F.A.P. | SECTION | COUNTY | SHEETS | SHEET |
|--|--|--------------------------|-----------|-----------|------------------------------|------------|----------------------------------|--------|------------------|-----------|--------|-------|
| \\farnsworthgrp.com\data\Archive_CHA\2011\111004-35\0 | _Drawings\DGN\CAD_Sheets\D876N18-sht-003-006-SOQ.dgn | DRAWN - | DC | REVISED - | STATE OF ILLINOIS | | SUMMARY OF QUANTITIES | 42 | 139BR-2 | BOND | 36 | 3 |
| | PLOT SCALE = 2.0000 ' / in. | CHECKED - | MJB | REVISED - | DEPARTMENT OF TRANSPORTATION | | | | - | CONTRAC | TNO. | |
| Default | PLOT DATE = 12/12/2019 | DATE - | 11/4/2019 | REVISED - | | SCALE: NTS | SHEET 1 OF 4 SHEETS STA. TO STA. | | ILLINOIS FED. AI | D PROJECT | | |
| | | | | | | | · · · | | | | | |

| | | | | | 10 | 80% FED / | 20% STATE |
|--------|----------------------|-------------------------|---------------------------------|--------|-------|-----------------------------------|-----------------------------------|
| | COD E NUMBER | | ITEM | UNIT | TOTAL | STRUCTURE NO. 003-0051 0013 | STRUCTURE NO. 003-0057 0013 |
| | 50606702 | CLEANING AND PAINTI | NG STRUCTURAL STEEL, LOCATION 2 | L SUM | 1 | 0 | 1 |
| | 50800205 | REINFORCEMENT BARS | , EPOXY COATED | POUND | 4170 | 1280 | 2890 |
| | 50800515 | BAR SPLICERS | | EACH | 54 | 24 | 30 |
| | 52000110 | PREFORMED JOINT STI | RIP SEAL | FOOT | 190.5 | 68.5 | 122.0 |
| | 58100200 | WATERPROOFING MEM | BRANE SYSTEM | SQ YD | 973 | 973 | 0 |
| | 58700300 | CONCRETE SEALER | | SQ FT | 404 | 404 | 0 |
| Δ | 63000001 | STEEL PLATE BEAM GL | JARDRAIL, TYPE A, 6 FOOT POSTS | FOOT | 657 | 300 | 357 |
| Δ | 63100167 | TRAFFIC BARRIER TERM | 1INAL, TYPE 1 (SPECIAL) TANGENT | EACH | 4 | 1 | 3 |
| | 63200310 | GUARDRAIL REMOVAL | | FOOT | 912 | 444 | 468 |
| | 67000400 | ENGINEER'S FIELD OFF | ICE, TYPE A | CAL MC | 0 6 | 3 | 3 |
| | 67100100 | MOBILIZATION | | L SUM | 1 | 0.5 | 0.5 |
| | 70103815 | TRAFFIC CONTROL SUI | ₹VEILLANCE | CAL DA | 90 | 45 | 45 |
| | 70106500 | TEMPORARY BRIDGE T | RAFFIC SIGNALS | EACH | 2 | 1 | 1 |
| | 70106700 | TEMPORARY RUMBLE S | TRIPS | EACH | 24 | 12 | 12 |
| | 70107005 | PAVEMENT MARKING E | LACKOUT TAPE, 5" | FOOT | 2515 | 1172 | 1343 |
| | 70107024 | PAVEMENT MARKING E | LACKOUT TAPE, 24" | FOOT | 31 | 0 | 31 |
| | 70107025 | CHANGEABLE MESSAG | E SIGN | CAL DA | 194 | 104 | 90 |
| | 70300100 | SHORT TERM PAVEMEN | IT MARKING | FOOT | 252 | 120 | 132 |
| и | REVI REVI REVI | SED - SED - SED - | STATE OF ILLINOIS | | | SUMMARY | |
| 4/2019 | REVI | SED - | DELACTMENT OF TRANSFORTAIL | SCALE | : NTS | SHEET 2 OF 4 | SHEETS STA. |

\bigtriangleup Shows items that are specialty and not completed by general contractor

| FILE NAME = | USER NAME = bmarkunas | DESIGNED - | RMM | REVISED - | | | | | | |
|--|--|------------|-----------|-----------|------------------------------|--------------|---------------------|--|--|--|
| \\farnsworthgrp.com\data\Archive_CHA\2011\111004-35\0 | _Drawings\DGN\CAD_Sheets\D876N18-sht-003-006-SOQ.dgn | DRAWN - | DC | REVISED _ | STATE OF ILLINOIS | SUMMARY OF C | | | | |
| | PLOT SCALE = 2.0000 ' / in. | CHECKED - | MJB | REVISED - | DEPARTMENT OF TRANSPORTATION | | | | | |
| Default | PLOT DATE = 12/12/2019 | DATE - | 11/4/2019 | REVISED - | | SCALE: NTS | SHEET 2 OF 4 SHEETS | | | |

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|------------------------------------|---|-----------------------|------------------|-----------|----------------------|---|----------|-------|--------------|--------------|
| | | | | CODE | | | | T | STRUCTURE | STRUCTURE |
| | | | | NUMBER | | ITEM | UNIT | TOTAL | NO. 003-0051 | NO. 003-0057 |
| | | | | 70300150 | SHORT TERM PAVEMEN | NT MARKING REMOVAL | SO FT | 1276 | 542 | 734 |
| | | | | , 5500150 | | | | 12/0 | 572 | , , , , |
| | | | | 70200225 | | | | 2007 | 1207 | 1710 |
| | | | | 70300220 | TEMPORARY PAVEMEN | T MARKING - LINE 4" | FOOT | 3007 | 1297 | 1710 |
| | | | | | | | | | | |
| | | | | 70400100 | TEMPORARY CONCRETI | E BARRIER | FOOT | 1189 | 454 | 735 |
| | | | | | | | | 1.1 | | |
| | | | | 70400200 | RELOCATE TEMPORARY | CONCRETE BARRIER | FOOT | 841 | 427 | 414 |
| | | | | | | | | | | |
| | | | | 70600250 | IMPACT ATTENUATORS | , TEMPORARY (NON- REDIRECTIVE), TEST LEVEL 3 | EACH | 9 | 4 | 5 |
| | | | | | | | | | | |
| | | | | 70600350 | IMPACT ATTENUATORS | , RELOCATE (NON- REDIRECTIVE), TEST LEVEL 3 | EACH | 8 | 6 | 2 |
| | | | | | | | | | | |
| △ SHOWS ITEMS THAT NOT COMPLETED B | T ARE SPECIALTY AND | | ~ | 72501000 | TERMINAL MARKER - D | IRECT APPLIED | EACH | 4 | 1 | 3 |
| | I GENERAL CONTRACTOR | | | | | | | - | - | |
| | | | <u>,</u> | 78000200 | | | FOOT | 2205 | 1207 | 0.08 |
| | | | | 70000200 | | | | 2205 | 12.57 | 500 |
| | | | | 7000001 | | | | 0.01 | | 001 |
| | | | | /8009004 | MODIFIED URETHANE I | PAVEMENT MARKING - LINE 4" | FOOT | 801 | 0 | 801 |
| | | | | | | | | | | |
| | | | | 78100100 | RAISED REFLECTIVE PA | VEMENT MARKER | EACH | 12 | 5 | 7 |
| | | | | | | | | | | |
| | | | | 78200005 | GUARDRAIL REFLECTO | RS, TYPE A | EACH | 14 | 7 | 7 |
| | | | | | | | | | | |
| | | | | 78200010 | BARRIER WALL REFLEC | TORS, TYPE B | EACH | 79 | 47 | 32 |
| | | | | | | | | | | |
| | | | | 78300200 | RAISED REFLECTIVE PA | VEMENT MARKER REMOVAL | EACH | 12 | 5 | 7 |
| | | | | | | | -1 | | | |
| | | | | X0324762 | WIDE LOAD DETOUR S | IGNING | L SUM | 1 | 0.5 | 0.5 |
| | | | | | | | | + | | |
| | | | | X5060601 | | SPOSAL OF NON-LEAD PAINT CLEANING DESIDUES NO | 1 511M | 1 | 1 | 0 |
| | | | | 700001 | CONTAINIMENT AND DI | STOSAL OF NON-LLAD FAINT CLLAINING RESIDUES, NU. | | 1 | 1 | 0 |
| | | | | VEGGGGGGG | | | | | | |
| | | | | X5060602 | CONTAINMENT AND DI | SPOSAL OF NON-LEAD PAINT CLEANING RESIDUES, NO. 3 | 2 L SUM | 1 | 0 | 1 |
| | | | | | | | | - | | |
| | | | | X5870015 | BRIDGE DECK CONCRE | TE SEALER | SQ FT | 9976 | 2103 | 7873 |
| | | | | | | | | | | |
| | | | | X6061700 | COMBINATION CONCRE | TE CURB AND GUTTER, TYPE B (SPECIAL) | FOOT | 35 | 20 | 15 |
| | | | | | | | | | | |
| FILE NAME = | USER NAME = bmarkunas DI_Drawings\DGN\CAD_Sheets\D876N18-sht-003-006-SOQ.dgn | DESIGNED - DRAWN - | RMM DC | REVIS | SED - | STATE OF ILLINOIS | | | SUMMARY | OF QUANTITIE |
| Default | PLOT SCALE = 2.0000 ' / in. PLOT DATE = 12/12/2019 | CHECKED - DATE - | MJB 11/4/2019 | REVIS | ED - | DEPARTMENT OF TRANSPORTATION | SCALE | : NTS | SHEET 3 OF 4 | SHEETS STA. |

| FILE NAME = | USER NAME = bmarkunas | DESIGNED - RMM | REVISED - | | | |
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| \\farnsworthgrp.com\data\Archive_CHA\2011\11I004-35\0 | _Drawings\DGN\CAD_Sheets\D876N18-sht-003-006-SOQ.dgn | DRAWN - DC | REVISED - | STATE OF ILLINOIS | | SUMMARY OF Q |
| | PLOT SCALE = 2.0000 ' / in. | CHECKED - MJB | REVISED - | DEPARTMENT OF TRANSPORTATION | | |
| Default | PLOT DATE = 12/12/2019 | DATE - 11/4/2019 | REVISED - | | SCALE: NTS | SHEET 3 OF 4 SHEETS |

| | | | | | 80% FED / | 10% STATE |
|------------------|----------|---|-------|----------|---------------------------------------|-----------|
| | CODE | ITEM | UNIT | τοται | STRUCTURE | STRUCTURE |
| | NUMBER | | | | 0013 | 0013 |
| \bigtriangleup | X6310187 | TRAFFIC BARRIER TERMINAL, TYPE 6 (MODIFIED) | EACH | 7 | 4 | 3 |
| | | | | | | |
| | X7010202 | TRAFFIC CONTROL AND PROTECTION, STANDARD 701321 (SPECIAL) | EACH | 2 | 1 | 1 |
| | | | | | | |
| | X7010216 | | | 1 | 0.5 | 0.5 |
| | X7010210 | INATHE CONTROL AND TROTECTION, (SECIAL) | | | 0.5 | 0.5 |
| | | | | | | |
| | X7030005 | TEMPORARY PAVEMENT MARKING REMOVAL | SQ FT | 992 | 428 | 564 |
| | | | | | | |
| | Z0001495 | BRIDGE APPROACH SHOULDER REMOVAL | SQ YD | 7 | 4 | 3 |
| | | | | | | |
| | Z0001903 | STRUCTURAL STEEL REMOVAL | POUND | 1160 | 1160 | 0 |
| | | | | | 0 | |
| | 70001905 | STRUCTURAL STEEL REPAIR | | 1030 | 1030 | 0 |
| | 20001505 | | | 1050 | 1050 | 0 |
| | | | | <u> </u> | 0 | |
| | Z0004405 | HOT-MIX ASPHALT SCARIFICATION | SQ YD | 97 | 12 | 85 |
| | | | | | | |
| | Z0010400 | CLEANING BRIDGE SEATS | SQ FT | 316 | 0 | 316 |
| | | | | | | |
| | Z0012130 | BRIDGE DECK SCARIFICATION 3/4" | SQ YD | 821 | 0 | 821 |
| | | | | | · · · · · · · · · · · · · · · · · · · | |
| | 70012166 | | | 821 | 0 | 921 |
| | 20012100 | | | 021 | 0 | 021 |
| | | | | | | |
| | Z0012800 | | SQ YD | 590 | 146 | 444 |
| | | | | | | |
| | Z0016002 | DECK SLAB REPAIR (FULL DEPTH, TY II) | SQ YD | 25 | 0 | 25 |
| | | | | | | |
| | Z0016200 | DECK SLAB REPAIR (PARTIAL) | SQ YD | 200 | 200 | 0 |
| | | | | | - | |
| | 70033700 | LONGITUDINAL JOINT SEALANT | FOOT | 303 | 123 | 270 |
| đ | 20035700 | | | | 125 | 270 |
| Ø | 20076600 | TRAINEES | HOUR | 500 | 500 | 0 |
| | Z0073200 | TEMPORARY SHORING AND CRIBBING | EACH | 4 | 4 | 0 |
| Ø | Z0076604 | TRAINEES TRAINING PROGRAM GRADUATE | HOUR | 500 | 500 | 0 |
| | | GROUTED FIBERGLASS PLASTIC ENCASED REPAIR | FOOT | 90 | 0 | 90 |
| | | | | | | |

\bigtriangleup Shows Items that are specialty and not completed by general contractor

Ø 0042

| FILE NAME = | USER NAME = bmarkunas | DESIGNED | RMM | REVISED - | | | | F.A. RTE | SECTION | COUNTY | TOTAL SHEET SHEETS NO. |
|--|--|-----------|-----------|-----------|------------------------------|------------|----------------------------------|-------------|---------------------------|---------|---------------------------|
| \\farnsworthgrp.com\data\Archive_CHA\2011\11I004-35\0 | _Drawings\DGN\CAD_Sheets\D876N18-sht-003-006-SOQ.dgn | DRAWN - | DC | REVISED - | STATE OF ILLINOIS | | SUMMARY OF QUANTITIES | 42 | 139BR-2 | BOND | 36 6 |
| | PLOT SCALE = 2.0000 ' / in. | CHECKED - | MJB | REVISED - | DEPARTMENT OF TRANSPORTATION | | | | | CONTRAC | T NO. |
| Default | PLOT DATE = 12/12/2019 | DATE - | 11/4/2019 | REVISED - | | SCALE: NTS | SHEET 4 OF 4 SHEETS STA. TO STA. | | ILLINOIS FED. AID PROJECT | | |

REV. - MS



| FILE NAME = | USER NAME = bmarkunas | DESIGNED - | RMM | REVISED - | | 1 | | |
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| \\farnsworthgrp.com\data\Archive_CHA\2011\11I004-35\0 | Drawings\DGN\CAD_Sheets\D876N18-sht-007-008-typicals.d | n DRAWN - | DC | REVISED - | STATE OF ILLINOIS | 1 | TYPICAL | SEC |
| | PLOT SCALE = 40.0000 ' / In. | CHECKED - | MJB | REVISED - | DEPARTMENT OF TRANSPORTATION | 1 | | |
| Default | PLOT DATE = 12/11/2019 | DATE - | 11/4/2019 | REVISED - | | SCALE: NTS | SHEET 1 OF 2 S | SHEET |
| | | | | | | - | | - |



| • | nene | 42 | 139DR-2 | | BOND | 30 | | ' |
|---|--------------|----|---------|----------|-----------|-----|------|----|
| _ | | _ | | | CONTRACT | NO. | 76N1 | 8. |
| 3 | STA. TO STA. | | ILLINO | S FED. A | D PROJECT | | | |
| | | | | | | | | |



PROPOSED TYPICAL SECTION

STA. 2060+98.00 TO STA. 2061+08.00 STA. 2064+07.00 TO STA. 2064+17.00 ** SEE MOT PLANS FOR LIMITS OF HMA BASE COURSE WIDENING





PROPOSED TYPICAL SECTION LT STA. 2072+59.39 TO STA. 2072+61.32 RT STA. 2072+35.85 TO STA. 2072+61.32



PROPOSED TYPICAL SECTION LT STA. 2074+39.28 TO STA. 2074+65.68

RT STA. 2074+39.28 TO STA. 2074+43.22 ** SEE MOT PLANS FOR LIMITS OF HMA BASE COURSE WIDENING



PROPOSED TYPICAL SECTION

LT STA. 2072+11.32 TO STA. 2072+59.39 RT STA. 2072+11.32 TO STA. 2072+35.85 LT STA. 2074+65.68 TO STA. 2074+89.28 * RT STA. 2074+65.68 TO STA. 2074+89.28

* NO GUARDRAIL AT THIS LOCATION

 $\ast\ast$ SEE MOT PLANS FOR LIMITS OF HMA BASE COURSE WIDENING

| FILE NAME = | USER NAME = bmarkunas | DESIGNED - | RMM | REVISED - | | | | | | F.A.P. RTE | SECTION | COUNTY | SHEETS | SHEET |
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| \\farnsworthgrp.com\data\Archive_CHA\2011\111004-35\0 | Drawings\DGN\CAD_Sheets\D876N18-sht-007-008-typicals.d | n DRAWN - | DC | REVISED - | STATE OF ILLINOIS | | TYPICAL SEC | TIONS | | 42 | 139BR-2 | BOND | 36 | 8 |
| | PLOT SCALE = 40.0000 / In. | CHECKED - | MJB | REVISED - | DEPARTMENT OF TRANSPORTATION | | | | | | | CONTRAC | TNO. 7 | 6N18 |
| Default | PLOT DATE = 12/11/2019 | DATE - | 11/4/2019 | REVISED - | | SCALE: NTS | SHEET 2 OF 2 SHEETS | STA. | TO STA. | | ILLINOIS FE | D. AID PROJECT | | |



<u>LEGEND</u>

- (1) EXISTING P.C.C. APPROACH PAVEMENT
- (2) EXISTING HMA SHOULDER, 6"
- (3) EXISTING AGGREGATE SHOULDER, 6"
- (4) EXISTING P.C.C. APPROACH SHOULDER W/ INTEGRAL TYPE B CURB
- 5 EXISTING P.C.C. APPROACH SHOULDER
- 6 EXISTING GUARDRAIL
- \bigodot proposed 3/4" pavement scarification and 2½" poly hma surface course, il-9.5, mix "d", n70
- (8) HMA BASE COURSE WIDENING, 12"
- 9 PROPOSED STEEL PLATE BEAM GUARDRAIL, TYPE A
- (10) PROPOSED LONGITUDINAL JOINT SEALANT
- 11) PROPOSED AGGREGATE WEDGE SHOULDER, TYPE B
- (12) PROPOSED BITUMINOUS MATERIALS (TACK COAT)

| | | | | | | | | | | | | STAGING SCHEDU | JLE | | | | | | | | |
|-------------|---------------------|---------------------|------------------------------------|--------------------------------|--------------------|-------------------|---------------------|-----------------------------|----------------------------|----------------------------|-----------------------|-----------------------------------|--|---|-----------------------------|---|---|---------------------------------------|--|-----------------|---------------------------|
| LOCATION | EARTH EXCAVATION | EARTH EXCAVATION | HOT-MIX ASPHALT BASE COURSE, | HOT-MIX ASPHALT BASE COURSE | TEMPORARY RAMPS | PAVED SHOULDER | PAVEMENT REMOVAL | TEMPORARY BRIDGE TRAFFIC | TEMPORARY RUMBLE STRIPS | CHANGEABLE MESSAGE SIGN | TEMPORARY CONCRETE | RELOCATE TEMPORARY CONCRETE | IMPACT ATTENUATORS, TEMPORARY (NON- REDIRECTIVE), TEST | IMPACT ATTENUATORS, RELOCATE (NON- REDIRECTIVE), TEST | BARRIER WALL REFLECTORS, | TRAFFIC CONTROL AND PROTECTION, STANDARD 701321 | POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX | PAVEMENT MARKING BLACKOUT TAPE, 5" | PAVEMENT MARKING BLACKOUT TAPE, 24" | BITUMINC (TA |)US MATERIALS CK COAT) |
| | | (WIDEINING) | 12" | WIDENING, 12 | | REINOVAL | | JIGNALJ | | | DAIMEN | BARRIER | LEVEL 3 | LEVEL 3 | THED | (SPECIAL) | "D", N70 | | | BCW | BASE COURSE |
| | CU YD | CU YD | SQ YD | SQ YD | SQ YD | SQ YD | SQ YD | EACH | EACH | CALDA | FOOT | FOOT | EACH | EACH | EACH | EACH | TON | FOOT | FOOT | POUND | POUND |
| SN 003-0051 | | | | | | | | | | | | | | | | | | | | | 1 |
| PRESTAGE | | 10 | | 91 | | | | 1 | | 104 | | | | | | 1 | | | | 81 | 1 |
| STAGE 1 | | 10 | | 90 | 14 | 68 | | | 6 | | 454 | | 4 | | 23 | | | 945 | | 81 | 1 |
| STAGE 2 | | | | | 26 | 68 | | | 6 | | | 427 | | 6 | 24 | | | 227 | | | |
| SN 003-0057 | | | | | | | | | | | | | | | | | | | | | 1 |
| PRESTAGE | | 10 | | 118 | | | 49 | 1 | | 90 | | | | | | 1 | 67 | | | 106 | |
| STAGE 1 | 10 | 20 | 53 | 121 | 14 | 52 | | | 6 | | 735 | | 5 | | 20 | | | 1009 | 31 | 133 | 136 |
| STAGE 2 | | | | | 36 | 68 | | | 6 | | | 414 | | 2 | 12 | | | 334 | | | |
| | | | | | | | | | | | | | | | | | | | | | 1 |
| TOTAL | 10 | 50 | 53 | 420 | 90 | 256 | 49 | 2 | 24 | 194 | 1189 | 841 | 9 | 8 | 79 | 2 | 67 | 2515 | 31 | 401 | 136 |

| | | | | | | ROADWAYI | MPROVEMENT SCHE | DULE | | | | | |
|------------|-----------|------------|--|--|---|-------------------------------------|--|---|---|--|------------------------------------|---|-------------------------------|
| L | OCATION | I | BITUMINOUS MATERIALS (TACK COAT) | HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT | POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "D", N70 | AGGREGATE WEDGE SHOULDER, TYPE B | STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS | TRAFFIC BARRIER TERMINAL, TYPE 6 (MODIFIED) | TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT | TERMINAL MARKER - DIRECT APPLIED | GUARDRAIL REFLECTORS, TYPE A | COMBINATION CONCRETE CURB AND GUTTER, TYPE B (SPECIAL) | LONGITUDINAL JOINT SEALANT |
| | | | POUND | SQ YD | TON | TON | FOOT | EACH | EACH | EACH | EACH | FOOT | FOOT |
| SI | N 003-005 | 51 | | | | | | | | | | | |
| 2060+58.00 | то | 2061+20.00 | 99 | 142 | 34 | 0.6 | 44 | 2 | | | 2 | 10 | 62 |
| 2063+95.00 | то | 2064+57.00 | 99 | 142 | 34 | 0.6 | 256 | 2 | 1 | 1 | 5 | 10 | 61 |
| SI | N 003-005 | 57 | | | | | | | | | | | |
| 2071+71.32 | TO | 2072+61.32 | 222 | 305 | 76 | 0.4 | 194 | 2 | 2 | 2 | 4 | 10 | 90 |
| 2074+39.28 | TO | 2075+29.28 | 251 | 251 | 86 | 1.6 | 163 | 1 | 1 | 1 | 3 | 5 | 180 |
| | | | | | | | | | | | | | |
| | TOTAL | | 671 | 840 | 230 | 3 | 657 | 7 | 4 | 4 | 14 | 35 | 393 |

| | | | | | PAVE | EMENT MARKING SO | CHEDULE | | | | |
|------------|-------------|------------|----------------------------------|-----------------------|-----------------------------|------------------|-------------------------------|----------------|---------------|-----------------------|--------------------------|
| | LOCATION | 1 | RAISED REFLECTIVE PAVEMENT | THERMOPLAS MARKING | TIC PAVEMENT 5 - LINE 4" | MODIFIED URET | HANE PAVEMENT G - LINE 4'' | SHORT TERM PAV | EMENT MARKING | TEMPORARY PAVI LIN | EMENT MARKING - E 4'' |
| | | | MARKER | WHITE | YELLOW | WHITE | YELLOW | WHITE | YELLOW | WHITE | YELLOW |
| | | | EACH | FOOT | FOOT | FOOT | FOOT | FOOT | FOOT | FOOT | FOOT |
| 9 | SN 003-0051 | | | | | | | | | | |
| 2060+58.00 | TO | 2064+57.00 | 5 | 798 | 499 | 0 | 0 | 80 | 40 | 798 | 499 |
| 9 | SN 003-005 | 57 | | | | | | | | | |
| 2071+71.32 | то | 2075+29.28 | 7 | 455 | 453 | 387 | 414 | 96 | 36 | 901 | 809 |
| | | | | | | | | | | | |
| | SUB-TOTAL | | | 1253 | 952 | 387 | 414 | 176 | 76 | 1699 | 1308 |
| | TOTAL | | 12 | 22 | 205 | 8 | 01 | 2 | 52 | 30 | 007 |

| | | | | | REMOVAL | S SCHEDULE | | | | |
|------------|--|------------|--|----------------------|---|---|----------------------------------|---------------------------------------|--|---|
| | LOCATION | | HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT | GUARDRAIL REMOVAL | RAISED REFLECTIVE PAVEMENT MARKER REMOVAL | BRIDGE APPROACH SHOULDER REMOVAL | HOT-MIX ASPHALT SCARIFICATION | CONCRETE PAVEMENT SCARIFICATION | SHORT TERM PAVEMENT MARKING REMOVAL | TEMPORARY PAVEMENT MARKING REMOVAL |
| | SN 003-0051 | | SQ YD | FOOT | EACH | SQ YD | SQ YD | SQ YD | SQ FT | SQ FT |
| S | SN 003-0051 060+58.00 TO 2061+20. | | | | | | | | | |
| 2060+58.00 | TO | 2061+20.00 | 142 | 114 | | | 6 | 73 | | |
| 2061+20.00 | B.00 TO 2061+20.0 0.00 2063+95.0 | | | | 5 | | | | 542 | 428 |
| 2063+95.00 | TO | 2064+57.00 | 142 | 330 | | 4 | 6 | 73 | | |
| 5 | SN 003-005 | 7 | | | | | | | | |
| 2071+71.32 | TO | 2072+61.32 | 305 | 268 | | | 32 | 147 | | |
| 2072+61.32 | | 2074+39.28 | | | 7 | | | | 734 | 564 |
| 2074+39.28 | TO | 2075+29.28 | 142 | 200 | | 3 | 27 | 159 | | |
| RIG | HT TURN R | AMP | 107 | | | | 26 | 138 | | |
| | | | | | | | | | | |
| TOTAL | | | 838 | 912 | 12 | 7 | 97 | 590 | 1276 | 992 |

| FILE NAME = | USER NAME = bmarkunas | DESIGNED - | RMM | REVISED - | | | | | F.A.P. RTE | SECTION | COUNTY | TOTAL SHEET |
|--|--|------------|-----------|-----------|------------------------------|------------|--------------------------|---------|---------------|-----------------|----------|-------------|
| \\farnsworthgrp.com\data\Archive_CHA\2011\11I004-35\0 | LDrawings\DGN\CAD_Sheets\D876N18-sht-009-schedules.dgr | DRAWN - | DC | REVISED - | STATE OF ILLINOIS | | QUANTITY SCHEDULES | | 42 | 139BR-2 | BOND | 36 9 |
| | PLOT SCALE = 40.0000 '/ In. | CHECKED - | MJB | REVISED - | DEPARTMENT OF TRANSPORTATION | | | | | | CONTRACT | NO. 76N18 |
| Default | PLOT DATE = 12/12/2019 | DATE - | 11/4/2019 | REVISED - | | SCALE: NTS | SHEET 1 OF 1 SHEETS STA. | TO STA. | | ILLINOIS FED. A | PROJECT | |



N SCALE IN FEET 14 600×058 2066 Extin. BEGIN LENGTH OF NEED TRAFFIC BARRIER TERMINAL, TY 1 (SPECIAL) TANGENT - REMOVE GUARDRAIL PR STEEL PLATE BEAM GUARDRAIL, TYPE A a Michaeler Participa The states 4 4 State F.A.P. RTE TOTAL SHEE SHEETS NO. SECTION COUNTY 36 10 42 139BR-2 BOND CONTRACT NO. 76N18 TO STA. ILLINOIS FED. AID PROJECT



PLOT SCALE = 40.0000 '/ In.

PLOT DATE = 12/11/2019

CHECKED -

-

DATE

| DC | REVISED - | STATE OF ILLINOIS | | | | 0 | DV | 1/ A V |
|-----------|-----------|------------------------------|-----------------|-------|---|-----|----|--------|
| MJB | REVISED - | DEPARTMENT OF TRANSPORTATION | | | F | (UA | | VAI |
| 11/4/2019 | REVISED - | | SCALE: 1" = 20' | SHEET | 2 | OF | 2 | SHEET |

| ERER | 20 0 20 SCALE IN FEET |
|--|--|
| R TRAFFIC BARRIER RMINAL, TY 6 (MOD) R COMB. C&G, TY B (SP) EE DETAIL SHEET PR AGGREGATE SHOULDER WEDGE, TYPE B | REMOVE GUARDRAIL PR STEEL PLATE BEAM GUARDRAIL, TYPE A TRAFFIC BARRIER TERMINAL, TY 1 (SPECIAL) TANGENT BEGIN LENGTH OF NEED STA. 2076+46.89 |
| PR AGGREGATE SHOULDER WEDGE, TYPE B PR AGGREGATE SHOULDER WEDGE, TYPE B | J2076 |
| | |
| | FAP. SECTION COUNTY TOTAL SHEETS SHE |
| DWAY PLAN | 42 139BR-2 BOND 36 11 CONTRACT NO. 76N18 |



SIGNS REQUIRED



NOTES

- 1. SIGN SPACING FROM INTERSECTIONS SHALL BE 400' OR TO FIT FIELD CONDITIONS PER ENGINEER.
- 2. THE HEIGHT TO THE BOTTOM OF THE LOWEST SIGN SHALL NOT BE LESS THAN 6'.

| FILE NAME = | USER NAME = bmarkunas | DESIGNED - | RMM | REVISED - | | | | F A P BTE | SECTION | COUNTY | TOTAL | L SHEE |
|--|---|-------------|-----------|-----------|------------------------------|------------|----------------------------------|--------------|-----------------|-----------|-------|--------|
| \\farnsworthgrp.com\data\Archive_CHA\2011\11I004-35\0 | _Drawings\DGN\CAD_Sheets\D876N18-sht-012-wide load sign | ngDaBaAWN - | DC | REVISED - | STATE OF ILLINOIS | | WIDE-LOAD SIGNING SHEET | 42 | 139BR-2 | BOND | 36 | 12 |
| | PLOT SCALE = 40.0000 ' / In. | CHECKED - | MJB | REVISED - | DEPARTMENT OF TRANSPORTATION | | | | | CONTRACT | | 76N18 |
| Default | PLOT DATE = 12/11/2019 | DATE - | 11/4/2019 | REVISED - | | SCALE: NTS | SHEET 1 OF 1 SHEETS STA. TO STA. | | ILLINOIS FED. A | D PROJECT | | |





| \farnsworthgrp.com\data\Archive_CHA\2011\111004-35\0 | LDrawings\DGN\CAD_Sheets\D876N18-sht-013-014-Structure | 00 101R/AXX/Ng n - | DC | REVISED - | STATE OF ILLINOIS | | |
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| | PLOT SCALE = 40.0000 ' / In. | CHECKED - | MJB | REVISED - | DEPARTMENT OF TRANSPORTATION | IVIAI | INTENANCE OF TRA |
| STAGE 1 Rev | PLOT DATE = 12/11/2019 | DATE - | 11/4/2019 | REVISED - | | SCALE: 1" = 20' | SHEET 1 OF 4 SHEETS |
| | | | | | | | |

| S | TRUCTURE 003-0051 | | | | | | RTE. | SECTION | N | | COUNTY | SHEETS | S NO |
|----|----------------------------|----|---|--------|------|---------|------|----------|---|----------|-----------|--------|------|
| -N | | | 0 | | FFIC | STAGE 1 | 42 | 139BR-2 | 2 | | BOND | 36 | 13 |
| | NANCE OF TRAFFIC - STAGE I | | | | | _ | | | | CONTRACT | NO. 7 | 6N18 | |
| Г | 1 | OF | 4 | SHEETS | STA. | TO STA. | | ILLINOIS | | | D PROJECT | | |
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| FILE NAME = | USER NAME = bmarkunas | DESIGNED - | RMM | REVISED - | | STRUCTURE OO | | | | | | 54 |
|--|---|----------------------------------|-----------|-----------|------------------------------|-----------------|--------|-----|------|-------|--------|-----------|
| \\farnsworthgrp.com\data\Archive_CHA\2011\11I004-35\0 | Drawings\DGN\CAD_Sheets\D876N18-sht-013-014-Structure | e00 £01RAGW/Ng n - | DC | REVISED - | STATE OF ILLINOIS | | | | | | | |
| | PLOT SCALE = 40.0000 ' / In. | CHECKED - | MJB | REVISED - | DEPARTMENT OF TRANSPORTATION | | AINTEN | IAN | CEC | л ік | AFFIC | ;-STAGE 2 |
| STAGE 2 Rev | PLOT DATE = 12/11/2019 | DATE - | 11/4/2019 | REVISED - | | SCALE: 1" = 20' | SHEET | 2 | OF 4 | SHEET | S STA. | TO STA |
| | | | | | | | | | | - | - | · |







42

TO STA.

139BR-2

ILLINOIS FED. AID PROJECT

CONTRACT NO 76N18



| FILE NAME = | USER NAME = bmarkunas | DESIGNED - | RMM | REVISED - | | | STOUCTURE (|
|--|--|--------------------------|-----------|-----------|------------------------------|------------|-------------------|
| \\farnsworthgrp.com\data\Archive_CHA\2011\111004-35\0 | LDrawings\DGN\CAD_Sheets\D876N18-sht-015-016-Structure | 00 107RAWA/Ng n - | DC | REVISED - | STATE OF ILLINOIS | | |
| | PLOT SCALE = 40.0000 ' / In. | CHECKED - | MJB | REVISED - | DEPARTMENT OF TRANSPORTATION | IMA | INTENANCE OF IF |
| STAGE 1 | PLOT DATE = 12/11/2019 | DATE - | 11/4/2019 | REVISED - | | SCALE: NTS | SHEET 3 OF 4 SHEE |

| 03-0057 AFFIC - STAGE 1 | | SEC. | TION | | COUNTY | TOTAL SHEETS | AL SHEET | |
|----------------------------|--|------|----------|--------|-------------|-----------------|----------|--|
| | | 139E | 3R-2 | | BOND | 36 | 15 | |
| | | | | | CONTRACT | NO. 76 | 5N18 | |
| S STA. TO STA. | | | ILLINOIS | FED. A | AID PROJECT | | | |
| | | | | | | | | |



| FILE NAME = | USER NAME = bmarkunas | DESIGNED - | RMM | REVISED - | | | | F.A.P. BTE | SECTION | COUNTY | TOTAL | SHEET |
|--|--|---------------|-----------|-----------|------------------------------|-----------------|----------------------------------|---------------|-----------------|---------------------------|--------|-------|
| \\farnsworthgrp.com\data\Archive_CHA\2011\11I004-35\0 | _Drawings\DGN\CAD_Sheets\D876N18-sht-015-016-Structure | 00 DRAW Mon - | DC | REVISED - | STATE OF ILLINOIS | R/1 A | | 42 | 139BR-2 | BOND | 36 | 16 |
| | PLOT SCALE = 40.0000 ' / In. | CHECKED - | MJB | REVISED - | DEPARTMENT OF TRANSPORTATION | | INTENANCE OF TRAFFIC - STAGE 2 | | | CONTRACT | NO. 76 | 3N18 |
| STAGE 2 Rev | PLOT DATE = 12/11/2019 | DATE - | 11/4/2019 | REVISED - | | SCALE: 1" = 20' | SHEET 4 OF 4 SHEETS STA. TO STA. | | ILLINOIS FED. A | ILLINOIS FED. AID PROJECT | | |

| TEMPORARY CONCRETE BARRIER |
|---|
| TRAFFIC SIGNAL WITH SIGNAL DIRECTION |
| MAINLINE TRAFFIC |





SECTION VIEW



BUTT JOINT DETAIL

3/4"

 \sim

EXIST APPROACH

3/4" SCARIFICATION

40'

1:240

-HMA SURFACE REMOVAL -BUTT JOINT

3/4"

 \sim

/X

COMBINATION CONCRETE CURB AND GUTTER, TYPE B (SPECIAL)

| | 1 | 1 | | | 1 | | | | |
|--|--|------------------|-----------|------------------------------|---|-----|---------------------------|---------|-------------|
| FILE NAME = | USER NAME = bmarkunas | DESIGNED - RMM | REVISED - | | | RTE | SECTION | COUNTY | SHEETS NO. |
| \\farnsworthgrp.com\data\Archive_CHA\2011\111004-35\0 | Drawings\DGN\CAD_Sheets\D876N18-sht-017-018-details.dg | DRAWN – DC | REVISED - | STATE OF ILLINOIS | DETAILS | 42 | 139BR-2 | BOND | 36 17 |
| | PLOT SCALE = 40.0000 '/ In. | CHECKED - MJB | REVISED - | DEPARTMENT OF TRANSPORTATION | | | | CONTRAC | T NO. 76N18 |
| Default | PLOT DATE = 12/11/2019 | DATE - 11/4/2019 | REVISED - | | SCALE: NTS SHEET 1 OF 2 SHEETS STA. TO STA. | | ILLINOIS FED. AID PROJECT | | |





1

GENERAL NOTES

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

Reinforcement bars designated (E) shall be epoxy coated.

Prior to pouring the new concrete deck, all heavy or loose rust, 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 the pay item covering removal of the existing concrete.

As directed by the Engineer, existing construction accessories welded to the top flange of beams and girders shall be removed. The weld areas shall be ground flush and inspected for cracks using magnetic particle testing (MT) or dye penetrant testing (PT) by qualified personnel approved by the Engineer. Any cracks that cannot be removed by grinding $\frac{1}{4}$ inch deep shall be identified and reported to the Bureau of Bridges and Structures for further disposition. The cost of removing welded accessories, grinding and inspecting weld areas and grinding cracks will be paid for according to Article 109.04 of the Standard Specifications.

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

The quantity for "Bridge Deck Concrete Sealer" is for the top and inside parapet surfaces and new hatchblock and deck end concrete.

The quantity for "Concrete Sealer" is for a 2' vertical surface along the backwall. 2'-9" wide abutment seats, and 1' vertical surface in front of the abutment caps. The sealer in these areas shall be a plural component.

All new structural steel shall be AASHTO M 270 Grade 36 and hot-dip galvanized. See special provision for "Hot Dip Galvanizing For Structural Steel".

Existing structural steel that will be in contact with new structural steel shall be cleaned and painted prior to erection as required by the GBSP "Cleaning and Painting Contact Surface Areas of Existing Steel Structures".

Cleaning and Painting of the existing structural steel and bearings shall be as specified in the special provision for "Cleaning and Painting Existing Steel Structures". All beams within 5 feet (measured along the beam) of either side of the deck joints shall be cleaned per Near White Blast Cleaning (SSPC-SP10). Existing diaphragms at the west abutment will be replaced and are excluded from the cleaning requirements.

The designated areas cleaned per Near White Blast Cleaning (SSPC-SP10) and the new galvanized diaphragms, and repair L plates shall be painted according to the requirements of Paint System 1 - OZ/E/U. The color of the final finish coat for all steel surfaces shall be Interstate Green (Munsell No 7.5G 4/8).

Containment of cleaning residues is required to control nuisance dust. See special provisions.

Areas of deck repairs are estimated. The Engineer shall show actual locations of deck repairs on As-Built Plans.

Temporary shoring and cribbing is required at the W. Abutment Beams 1,2,4, & 5. The existing steel shoring pedestals shall be salvaged and returned to IDOT.

Joint opening shall be adjusted according to Article 520.04 of the Standard Specs, when the deck is poured at an ambient temperature other than 50°F.

> DESIGN STRESSES FIELD UNITS $f'c = 4,000 \ psi$ fy = 60,000 psi (Reinforcement) fy = 36,000 psi (M270 Grade 36)

| Sta 2061+17.50 | Elev 496.46 | | Sta 2063+97.50 |
|----------------|-------------|-------|----------------|
| | | 0.00% | |

PROFILE GRADE

| LEVATION HOAL CREEK OVERFLOW | | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------------------|--|------------------|----------|-----------------|--------------|
| | | 139BR-2 | BOND | 36 | 19 |
| | | | CONTRA | CT NO. 7 | 6N18 |
| SHEETS | | ILLINOIS FED. AI | DPROJECT | | |





MODEL. 0030051-76N18-003 MODEL. 0030051-76N18-003 MODEL. 0030051-76N18-003



MODEL: 0030051-76018-004 MODEL: 0030051-76018-004 MODEL: 0030051-76018-004 MODEL: 0030051-76018-004 MODEL: 0030051-76018-004 MODEL: 0030051-76018-004



seal shall match the configuration of the locking edge rails. Open or "webbed" strip seal gland configurations are not permitted. The gland shall be sized for a maximum a minimum thickness of 1/4". The configuration of the strip The strip seal shall be made continuous and shall have rated movement of 4 inches.

Notes:

of the locking edge rails and matching strip seal may vary from manufacturer to manufacturer provided they fit the application applications and are conceptual only. The actual configuration and meet the minimum anchorage shown. Flanged edge rails, The locking edge rails depicted are configured for typical however, will not be allowed. The manufacturer's recommended installation methods

shall be followed.

shall be \mathcal{H}_6'' and sealed with a suitable sealant; however, any rail joint within 10' measured perpendicular to the face of the curb or parapet shall be welded as shown in the locking edge All steel components shall be galvanized after fabrication according to Article 520.03 of the Standard Specifications. The Maximum space between locking edge rail segments rail splice detail.

a different locking edge rail, dimensional adjustments may be required. One exception to this would be the strip seal joint at the end of the precast bridge approach slab. For these cases the pavement connector length shall be adjusted, not the length of the bridge approach slab. parapet lengths shown elsewhere in the plans are dimensioned to the concrete opening, not the joint opening, and are based on the rolled locking edge rail. If the Contractor elects to use The concrete opening below the strip seal will vary based on the locking edge rail chosen by the Contractor. Deck and



TIE NAME: pw://planuoou.doi.llinois.gov.PV/IDOT/Documents/IDOT Offices/District 8/Projects/D876V18/CADData/Structures/0030051-76V18.dgn WODEL: 0030051-76N18-005



MODEL: 0030051-76018-006 MODEL: 0030051-76018-



MODEL: 0030051-76018-007 MODEL: 005007 MODEL:





SHEET 1

INDEX OF SHEETS

| 2. De 3. Joi 45. Joi 6. Pr | eck Cross Section int Removal Details int Replacement Details |
|-------------------------------------|---|
| 3. Joi 45. Joi 6. Pri | int Removal Details int Replacement Details |
| 45. Joi 6. Pri | int Replacement Details |
| 6. Pr | • |
| | eformed Joint Strip Seal |
| 78. Pie | er Repair Details |
| 9. De | ck Slab Repair Plan (As-Built) |
| IO. Te. | mporary Concrete Barrier for Stage Construction |
| II. Bar | Splicer Assembly and Mechanical Splicer Details |

TOTAL BILL OF MATERIAL

| ITEM | UNIT | TOTAL |
|---|---------|------------|
| ric | Sq. Yd. | 249 |
| ap, Class A5 | Sq. Yd. | 249 |
| Removal | Cu. Yd. | 131 |
| Superstructure | Cu. Yd. | 133 |
| ck Grooving | Sq. Yd. | 809 |
| nd Painting Structural Steel, Location 2 | L, Sum | 1 |
| nent Bars, Epoxy Coated | Pound | 2890 |
| rs | Each | 30 |
| Joint Strip Seal | Foot | 122 |
| ck Concrete Sealer | Sq. Ft. | 7873 |
| t & Disposal of Non-Lead Paint Cleaning Residues, No. 2 | L Sum | <i>I</i> - |
| ridge Seats | Sq. Ft. | 316 |
| ck Scarification ³ 4" | Sq. Yd. | 821 |
| ck Microsilica Concrete Overlay 2³4" | Sq. Yd. | 821 |
| Repair (Full Depth, TY II) | Sq. Yd. | 25 |
| FRP Encased Repair | Foot | 90 |
| | | |

For Grouted FRP Encased Repair details see sheet 8 of 11.

PROPOSED IMPROVEMENTS

I. Complete bridge scarification.

2. Complete full-depth deck patching, removal of deck ends, parapets, and hatch blocks.

Clean bearing seats at abutments. 3.

Complete structural repair of concrete on piers, 4.

- Clean and paint beam ends at abutments. 5.
- Clean and paint bearings at abutments. 6

Cast deck ends, parapet ends and hatch blocks. 7.

- 8. Place preformed joint stip seal.
- 9. Place bridge deck microsilica concrete overlay, 2³4".
- 10. Complete bridge deck grooving.

DESIGN STRESSES FIELD UNITS

f'c = 4,000 psi fy = 60,000 psi (Reinforcement) fy = 36,000 psi (M270 Grade 36)



OIS FED. AL

| ····· | | | | CONTRAC | CT NO. 7 | 6N18 | | | | | |
|-----------------------------|------------------------|------------|------|---------|-----------------|--------------|--|--|--|--|--|
| 3-0057 | 42 | 139BR- | 2 | BOND | 36 | 26 | | | | | |
| ELEVATION | F.A.P. RTE. | SECTIO | N | COUNTY | TOTAL SHEETS | SHEET NO. | | | | | |
| | | | | RE | EV | MS | | | | | |
| STRUCTU | STRUCTURE NO. 003-0057 | | | | | | | | | | |
| <u>STATION 2073+45.53</u> | | | | | | | | | | | |
| <u>B0</u> | ND COUN | <u>ITY</u> | | | | | | | | | |
| <u>F.A.P. 42</u> | – <i>SEC.</i> | 139BR | -2 | | | | | | | | |
| <u>5 100725 127 & 1</u> | TO OVER | LAJI | FURK | SHUAL | CRE | | | | | | |
| S BOUTES 127 & L | 10 OVER | EAST | ENDY | сцол | CDD | EV | | | | | |
| GENERAL I | PLAN & I | ELEVA | TION | | | | | | | | |



Slope to Drain

| Prairie Engineers P.C | USER NAME = jmasset | DESIGNED - SMA | REVISED - | | DECK CROSS SECTION | F.A.P. SECTION | COUNTY T | OTAL S | HEET |
|--|------------------------|----------------|-----------|------------------------------|------------------------|----------------|-------------|--------|------|
| www.prairieengineers.com | | CHECKED - SMA | REVISED - | STATE OF ILLINOIS | | 42 139BR-2 | BOND | 36 | 27 |
| rofessional design firm no. 184-005965 | PLOT SCALE = | DRAWN – JLM | REVISED - | DEPARTMENT OF TRANSPORTATION | STRUCTURE NU. 003-0057 | | CONTRACT | NO. 76 | N18 |
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GENERAL NOTES

Plan dimensions and details relative to the 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 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.

The existing abutment seats shall be cleaned according to the special provision for "Cleaning Bridge Seats".

Cleaning and painting of beam ends shall be performed after the concrete removal at the joints has been completed and prior to the installation of any forms for the placements of new concrete at those locations.

Cleaning and painting of the existing structural steel shall be as specified in the special provision for "Cleaning and Painting" Existing Steel Structures". All beams, bearings and other structural steel within 5 feet (measured along the beam) of either side of deck joints shall be cleaned per Near White Blast Cleaning (SSPC-SP10).

The designated areas cleaned per Near White Blast Cleaning (SSPC-SP10) shall be painted according to the requirements of "Paint System 1 - OZ/E/U. The color of the final finish coat for all steel surfaces shall be Interstate Green Munsell No. 7.5G 4/8.

Containment of cleaning residue is required to control nuisance dust. See Special Provisions.

The painting contractor shall be SSPC-QP 1 certified for this project and shall maintain certification throughout the duration of the project.

Care shall be taken not to damage rubber bearing or joint components during the blasting and cleaning operations. Any damage to these components shall be repaired at the contractor's expense.

Joint openings shall be adjusted according to article 520.04 of the standard specifications when deck is poured at an ambient temperature other than 50° F.

Prior to pouring the new concrete deck, all heavy or loose rust, loose mill scale, and other loose or potentially detrimental foreign material shall be removed from the surfaces in contact with the 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 the pay item covering removal of the existing concrete.

Reinforcement bars designated (E) shall be epoxy coated.

See Special Provision "Deck Slab Repair" for additional requirements pertaining to deck slab repairs.





SHEE' NO. 36 29 CONTRACT NO. 76N18



| Prairie Engineers, P.C. | USER NAME = jma <u>sset</u> | DESIGNED - S CHECKED - S | SMA REVISED SMA REVISED | STATE OF ILLINOIS | JOINT REPLACEMENT DETAILS (2 OF 2) | F.A.P. RTE. | SECTION | COUNTY TOTAL SHEET SHEETS NO. |
|---|---|-----------------------------|---|------------------------------|--|----------------|-------------------|----------------------------------|
| professional design firm no. 184-005965 Copyright Prairie Engineers, P.C. 2018 | PLOT SCALE = PLOT DATE = 12/ <u>12/20</u> 19 | DRAWN - J CHECKED - S | JLM REVISED SMA REVISED | DEPARTMENT OF TRANSPORTATION | STRUCTORE NO. 003–0057 SHEET 5 OF 11 SHEETS | | ILLINOIS FED. AID | CONTRACT NO. 76N18 |
| | | | | | | | | |



23/8'

ñ 6"

BAR d2(E)

SUPERSTRUCTURE BILL OF MATERIAL Bar No. Size Length Shape 9 #5 21'-6" a(E) a1(E) 18 #5 23'-10" a2(E) 18 #5 27'-6" ____ a3(E) 8 #6 4'-0'' 5'-4" #4 d(E) 8 3'-8'' 3'-0'' d1(E) 8 #5 d2(E) 6 #5 h(E) 6 h1(E) 12 h2(E) 12 21'-0" #6 23'-7" #6 #6 27'-6" s(E) 8 #6 4'-6"

2'-4"

Lbs.

Cu. Yds.

2890

133

x(E) 180 #5

Reinforcement Bars,

Epoxy Coated

Superstructure

Concrete



SECTION C-C

V

Zİ



PREFORMED JOINT STRI STRUCTURE NO. SHEET 6 OF 13

min.

Notes:

The strip seal shall be made continuous and shall have a minimum thickness of $\frac{1}{4}$ ". The configuration of the strip seal shall match the configuration of the locking edge rails. Open or "webbed" strip seal gland configurations are not permitted. The gland shall be sized for a maximum rated movement of 4 inches.

The locking edge rails depicted are configured for typical applications and are conceptual only. The actual configuration of the locking edge rails and matching strip seal may vary from manufacturer to manufacturer provided they fit the application and meet the minimum anchorage shown. Flanged edge rails, however, will not be allowed.

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.

The Maximum space between locking edge rail segments shall be $\frac{3}{16}$ " and sealed with a suitable sealant; however, any rail joint within 10' measured perpendicular to the face of the curb or parapet shall be welded as shown in the locking edge rail splice detail.

The concrete opening below the strip seal will vary based on the locking edge rail chosen by the Contractor. Deck and parapet lengths shown elsewhere in the plans are dimensioned to the concrete opening, not the joint opening, and are based on the rolled locking edge rail. If the Contractor elects to use a different locking edge rail, dimensional adjustments may be required. One exception to this would be the strip seal joint at the end of the precast bridge approach slab. For these cases the pavement connector length shall be adjusted, not the length of the bridge approach slab.



WELDED RAIL

Grind Flush <u>Omit weld at</u> seal opening *─* / * *

LOCKING EDGE RAIL SPLICE

The inside of the locking edge rail groove shall be free of weld residue. Rolled rail shown, welded rail similar.

LOCKING EDGE RAILS ** Back gouge not required if complete joint penetration is verified by mock-up.

BILL OF MATERIAL

| Item | Unit | Total |
|----------------------------|------|-------|
| Preformed Joint Strip Seal | Foot | 122.0 |
| | | |

| <u>P SEA</u> L - MODIFIED | | SECTION | | COUNTY | TOTAL SHEETS | SHEET NO. | |
|---------------------------|--|---------|----------|---------|-----------------|--------------|-------|
| 003-0057 | | 139BR-2 | | | BOND | 36 | 31 |
| 003-0031 | | | | | CONTRA | CT NO. 7 | 76N18 |
| SHEETS | | | ILLINOIS | FED. AI | D PROJECT | | |
| | | | | | | | |



WEST PIER (2) (Looking West)



EAST PIER (3) (Looking West)

| Prairie Engineers P.C | USER NAME = jmasset | DESIGNED - SMA | REVISED - | | PIER REPAIR DETAILS | F.A.P. RTE | SECTION | COUNTY | TOTAL | SHEET |
|---|------------------------|----------------|-----------|------------------------------|------------------------|---------------|-------------------|---------|---------|-------|
| www.prairieengineers.com | | CHECKED - SMA | REVISED - | STATE OF ILLINOIS | | 42 | 139BR-2 | BOND | 36 | 32 |
| professional design firm no. 184-005965 | PLOT SCALE = | DRAWN - JLM | REVISED - | DEPARTMENT OF TRANSPORTATION | STRUCTURE NU. 003-0057 | | -55 | CONTRA | ACT NO. | 76N18 |
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LEGEND

Pile Deterioration

Note:

Repair of existing piers shall include but may not be limited to the areas shown. See details for pile repairs on sheet 8 of 11.



| BILL | OF | MATERIAL |
|------|----|----------|
| | | |

| ITEM | UNIT | QUANTITY |
|----------------------------|------|----------|
| Grouted FRP Encased Repair | Foot | 90 |
| | | |

| DETAIL | F.A.P. RTE. | SECTION | | COUNTY | TOTAL | SHEET NO. |
|----------|----------------|---------|----------|------------|----------|--------------|
| 057 | 42 | 139BR-2 | | BOND | 39 | 33 |
| 001 | | | | CONTRAC | T NO. 76 | V18 |
| 1 SHEETS | | ILLINO | S FED. A | ND PROJECT | | |



| Item | Unit | Total |
|------------------------------------|--------|-------|
| | | |
| | | |
| ck Slab Repair (Full Depth, TY II) | Sq.Yd. | 25 |
| | | |

| LAN (AS BUILT) . 003–057 | | .P. SECTION | | COUNTY | TOTAL SHEETS | SHEET NO. | |
|-----------------------------|--|-------------|----------|---------|-----------------|--------------|-------|
| | | 2 139BR-2 | | | BOND | 36 | 34 |
| | | | | | CONTRA | CT NO. 7 | 76N18 |
| SHEETS | | | ILLINOIS | FED. AI | D PROJECT | | |



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SHEET 10 OF 11

reinforcement to accommodate the installation of the retainer assemblies.

beam directly beneath the temporary concrete barrier shall be fabricated with bar splicer inserts in the side of the beam, as detailed, to accommodate the installation of the retainer assemblies. A pair of bar splicers, 6" apart,

| F.A.P. RTE. | SECTION | | COUNTY | TOTAL SHEETS | SHEET NO. | |
|----------------|----------------------|--------------------------------|--------------------------------------|--------------------------------------|---|---|
| 42 | .2 139BR-2 | | | BOND | 36 | 35 |
| | | | | CONTRA | CT NO. 7 | 76N18 |
| | | ILLINOIS | FED. AI | D PROJECT | | |
| | F.A.P. RTE. 42 | F.A.P. RTE. SEC1 42 1391 | F.A.P. RTE. SECTION 42 139BR-2 | F.A.P. RTE. SECTION 42 139BR-2 | F.A.P. RTE. SECTION COUNTY 42 139BR-2 BOND CONTRAC ILLINOIS ILLINOIS | F.A.P. RTE. SECTION COUNTY SHEETS TOTAL SHEETS 42 139BR-2 BOND 36 CONTRACT NO. 7 ILLINOIS ILLINOIS |



Threaded splicer bar length = min. lap length + $1\frac{1}{2}$ " + thread length

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

| Location | Bar size | No. assemblies required | Minimum Iap length |
|--------------|-------------|----------------------------|-----------------------|
| Deck ends | #5 | 18 | 3'-6" |
| Hatch blocks | #6 | 12 | 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.



| jobs/2 | BSD-1 | 2-17-2017 | | | | | | | | | |
|-----------|--|------------------------|------------|-----|-----------|---|---|-----------------------|---------|-----------|---------------------------|
| <u> -</u> | Prairie Engineers P.C. | USER NAME = jmasset | DESIGNED - | SMA | REVISED - | STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION | BAR SPLICER ASSEMBLY AND MECHANICAL SPLICER DETAILS STRUCTURE NO. 003–0057 | F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEET SHEETS NO. |
| AME - | www.prairieengineers.com | | CHECKED - | SMA | REVISED - | | | 42 | 139BR-2 | BOND | 36 36 |
| Ž p | Copyright Prairie Engineers, P.C. 2018 | PLOT SCALE = | DRAWN - | JLM | REVISED - | | | 1- | -55 | CONTRA | ACT NO. 76N18 |
| FILE | | PLOT DATE = 12/12/2019 | CHECKED - | SMA | REVISED - | | SHEET 11 OF 11 SHEETS | ILLINOIS FED. AID PRO | | D PROJECT | ROJECT |



STANDARD MECHANICAL SPLICER

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

NOTES

Splicer bars shall be deformed with threaded ends 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.