

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|-------------|---------------------------|-----------|--------------------|-----------|
| 714 | (135X,B-1)BJR,BDR,135RS-8 | CHRISTIAN | 37 | 1 |
| | | ILLINOIS | CONTRACT NO. 72219 | |

INDEX OF SHEETS

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- 37 APPROACH SLABS GUARDRAIL / INLET PLAN

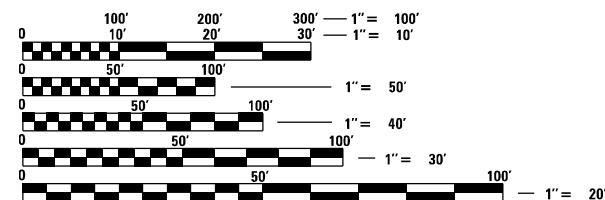
ROADWAY CLASSIFICATION

MINOR ARTERIAL

AVERAGE DAILY TRAFFIC YEAR 2021

ADT: 2,950 (SU = 3.73%, MU = 8.47%)

FOR LIST OF HIGHWAY STANDARDS, SHEET SHEET 2



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

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

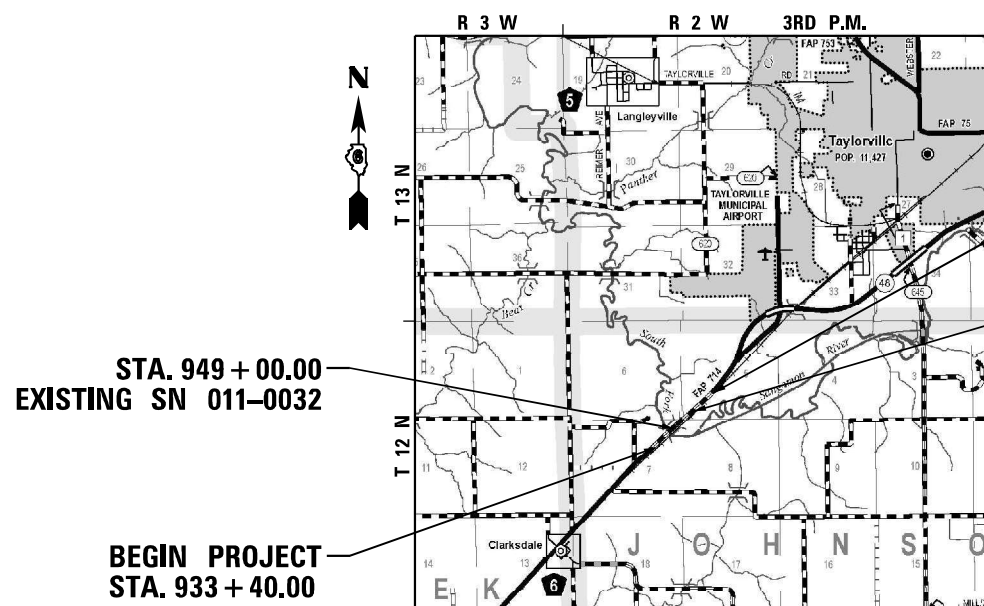
PROJECT ENGINEER: JON KELLEY 217-785-2739
PROJECT MANAGER: ED KERN 217-524-7547

CONTRACT NO. 72219

PROPOSED HIGHWAY PLANS

FAP ROUTE 714 (IL 48)
SECTION (135X,B-1)BJR,BDR,135RS-8
PROJECT STP-HBFP-WJE6(300)
BRIDGE JOINT REPLACE / REPAIR,
BRIDGE DECK OVERLAY, STANDARD OVERLAY
CHRISTIAN COUNTY

C-96-025-23



STA. 949 + 00.00
EXISTING SN 011-0032

BEGIN PROJECT
STA. 933 + 40.00

END PROJECT
STA. 997 + 01.20

STATION EQUATION
STA. 986 + 91.28 BK =
STA. 986 + 85.72 AH

LOCATION MAP
APPROXIMATE SCALE
1" = 1 MILE

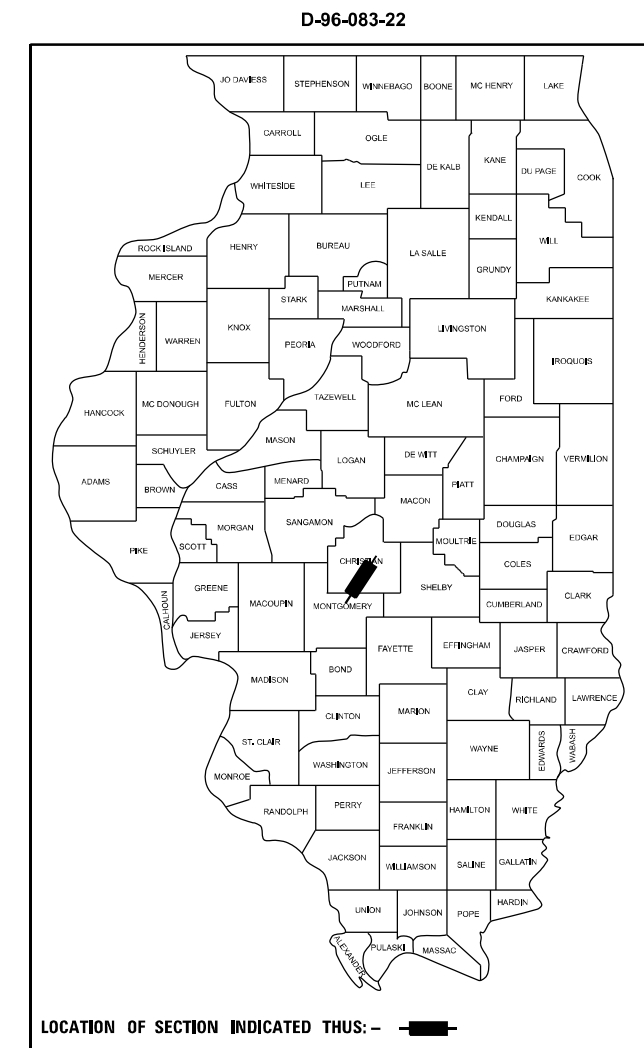


Kevin L. Kuhn

DATE: JANUARY 23 20 24
EXPIRES: NOVEMBER 30 20 25



KUHN & TRELLO
CONSULTING ENGINEERS
A Limited Liability Company
109 N. 7th Street, 3rd Floor
Springfield, IL 62701
Phone: 217-679-2044
Professional Design Firm No. 184-006516



LOCATION OF SECTION INDICATED THUS: - [Arrow] -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUBMITTED February 1 20 24
John P. Meyer
REGIONAL ENGINEER
March 22, 2024
Scott A. Etkin
ENGINEER OF DESIGN AND ENVIRONMENT
March 22, 2024
Stephen M. Smith
DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS

GENERAL NOTES

- ALL SAW CUTS NECESSARY TO COMPLETE THE WORK DETAILED IN THESE PLANS SHALL BE INCLUDED IN THE COST FOR THE VARIOUS PAY ITEMS INVOLVED
- THE CONTRACTOR SHALL SUBMIT A SEQUENCE OF CONSTRUCTION FOR APPROVAL TO THE RESIDENT ENGINEER BEFORE THIS PROJECT IS STARTED.
- IDOT DISTRICT 6 OPERATIONS TRAFFIC SIGNAL SECTION SHALL BE CONTACTED AT (217) 558-6718 FOR CONTROLLER PROGRAMMING AND TIMING APPROVAL PRIOR TO ACTIVATING THE TEMPORARY BRIDGE TRAFFIC SIGNALS.
- THE FOLLOWING RATES OF APPLICATION HAVE BEEN USED TO CALCULATE PLAN QUANTITIES:

| | |
|-----------------------------------|--------------------------------|
| HOT-MIX ASPHALT SURFACE/BINDER | 0.056 TON / (SQ YD - INCH) |
| BITUMINOUS MATERIALS (TACK COAT) | 0.05 LB / SQ FT (ON PAVEMENT) |
| BITUMINOUS MATERIALS (TACK COAT) | 0.025 LB / SQ FT (FOG) |
| BITUMINOUS MATERIALS (PRIME COAT) | 0.25 LB / SQ FT (ON AGGREGATE) |
| AGGREGATE MATERIAL | 1.60 TON / CU YD |
| SHORT TERM PAVEMENT MARKING | 4 FT / 100 FT OF APPLICATION |
- FOR CONSTRUCTION OF TEMPORARY PAVEMENT MARKINGS, REFER TO BDE SPECIAL PROVISION 80457 "SHORT TERM AND TEMPORARY PAVEMENT MARKINGS".
- ALL GUARDRAIL SHALL HAVE A PRELIMINARY LAYOUT. GUARDRAIL POSTS SHALL BE ADJUSTED TO MISS ANY SHOULDER DRAINS, INLETS, PIPE CULVERTS, STORM SEWERS OR ANY OTHER HAZARD THAT MAY INTERFERE WITH GUARDRAIL CONSTRUCTION.
- SYNTHETIC FIBERS ARE NOT REQUIRED IN BRIDGE DECK MICROSILICA CONCRET OVERLAY.
- FOR HORIZONTAL CONTROL AND CENTERLINE ALIGNMENT METADATA, PLEASE CONTACT IDOT DISTRICT 6 CHIEF OF SURVEYS AT 217-782-8707.

COMMITMENTS:

THERE ARE NO COMMITMENTS.

| | | | | |
|---|--------------|----|----|--|
| STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS DISTRICT 6 | | | | |
| EXAMINED | December, 26 | 20 | 23 | |
| | | | | |
| ENGINEER OF OPERATIONS | | | | |
| EXAMINED | January, 9 | 20 | 24 | |
| | | | | |
| ENGINEER OF PROJECT IMPLEMENTATION | | | | |
| EXAMINED | January, 17 | 20 | 24 | |
| | | | | |
| ENGINEER OF PROGRAM DEVELOPMENT | | | | |

HIGHWAY STANDARDS

| | |
|-----------|---|
| 000001-08 | STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS |
| 001001-02 | AREAS OF REINFORCEMENT BARS |
| 001006 | DECIMAL OF AN INCH AND OF A FOOT |
| 420001-10 | PAVEMENT JOINTS |
| 542401-04 | METAL FLARED END SECTION FOR PIPE CULVERTS |
| 610001-09 | SHOULDER INLET WITH CURB |
| 630001-13 | STEEL PLATE BEAM GUARDRAIL |
| 630301-09 | SHOULDER WIDENING FOR TYPE 1 (SPECIAL) GUARDRAIL TERMINALS |
| 631031-18 | TRAFFIC BARRIER TERMINAL, TYPE 6 |
| 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 |
| 701201-05 | LANE CLOSURE, 2L, 2W, DAY ONLY, FOR SPEED ≥45 MPH |
| 701301-04 | LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS |
| 701306-04 | LANE CLOSURE, 2L, 2W, SLOW MOVING OPERATIONS DAY ONLY, FOR SPEEDS ≥45 MPH |
| 701311-03 | LANE CLOSURE, 2L, 2W MOVING OPERATIONS DAY ONLY |
| 701321-18 | LANE CLOSURE, 2L, 2W, BRIDGE REPAIR WITH BARRIER |
| 701326-04 | LANE CLOSURE, 2L, 2W PAVEMENT WIDENING, FOR SPEEDS ≥45 MPH |
| 701901-09 | TRAFFIC CONTROL DEVICES |
| 704001-08 | TEMPORARY CONCRETE BARRIER |
| 725001-01 | OBJECT AND TERMINAL MARKERS |
| 780001-05 | TYPICAL PAVEMENT MARKINGS |
| 781001-04 | TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS |
| 782006-01 | GUARDRAIL AND BARRIER WALL REFLECTOR MOUNTING DETAILS |

THE FOLLOWING MIXTURE REQUIREMENTS ARE APPLICABLE FOR THIS PROJECT:

| MIXTURE USE(S): | HMA SURFACE COURSE | HMA BINDER COURSE | HMA SHOULDERS 8" | HMA SHOULDERS (TOP LIFT) & INCIDENTAL HMA |
|--|--------------------|-------------------|------------------|---|
| PG GRADE: | PG 64-22 | PG 64-22 | PG 64-22 | PG 64-22 |
| DESIGN AIR VOIDS: | 4.0% @ N50 | 4.0% @ N50 | 4.0% @ N50 | 4.0% @ N50 |
| MIXTURE COMPOSITION: (GRADATION MIXTURE) | IL-9.5 | IL-9.5FG | IL-19.0 | IL-9.5 |
| FRICTION AGGREGATE: | MIX "C" | N/A | N/A | N/A |
| QUALITY MANAGEMENT: | QC/QA | QC/QA | QC/QA | QC/QA |
| SUBLOT SIZE: | N/A | N/A | N/A | N/A |
| MATERIAL TRANSFER DEVICE REQUIRED: | YES | NO | NO | NO |

NOTE: NUCLEAR GAUGE WILL BE USED FOR DENSITY VERIFICATION BY THE ENGINEER FOR HMA SHOULDERS.

REV. - MS

MODEL: 2D Sheet 1
 FILE NAME: 20230406_08 IDOT D6 - PTB 195-030 - W08 - Christian County 72219-CAD-DRAWING-CAD-001-001-001-001.dgn



| | | |
|-------------------------------|------------|-----------|
| USER NAME = msutheard | DESIGNED - | REVISED - |
| | DRAWN - | REVISED - |
| PLOT SCALE = 0.16666633 1/in. | CHECKED - | REVISED - |
| PLOT DATE = 1/18/2024 | DATE - | REVISED - |

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**GENERAL NOTES, COMMITMENTS AND
LIST OF STANDARDS**

SCALE: SHEET 000 OF SHEETS STA. TO STA.

| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|--|--------------------------|-----------|--------------------|-----------|
| 714 | (135X,B-1)BR,BDR,135RS-8 | CHRISTIAN | 37 | 2 |
| | | | CONTRACT NO. 72219 | |
| ILLINOIS FED. AID PROJECT STP-BR-WJE6(300) | | | | |

| CONSTRUCTION CODE | |
|--------------------------------------|--------------------------------------|
| 6-01547-0100 STP 80% FED / 20% ST | 6-01547-0000 BFP 80% FED / 20% ST |
| ROADWAY | BRIDGE |
| 0005 | 0047 |
| RURAL | S.N. 011-0032 |

| CODE NO. | ITEM | UNIT | TOTAL QUANTITY | | |
|----------|--|-------|----------------|-------|-----|
| 20800150 | TRENCH BACKFILL | CU YD | 3 | 3 | |
| 40600290 | BITUMINOUS MATERIALS (TACK COAT) | POUND | 11241 | 11241 | |
| 40600370 | LONGITUDINAL JOINT SEALANT | FOOT | 5827 | 5827 | |
| 40600982 | HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT | SQ YD | 511 | 511 | |
| 40600990 | TEMPORARY RAMP | SQ YD | 113 | 113 | |
| 40602965 | HOT-MIX ASPHALT BINDER COURSE, IL-9.5FG, N50 | TON | 1125 | 1125 | |
| 10601050 | HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "C", N50 | TON | 1407 | 1407 | |
| 40800029 | BITUMINOUS MATERIALS (TACK COAT) | POUND | 156 | 156 | |
| 40800050 | INCIDENTAL HOT-MIX ASPHALT SURFACING | TON | 40 | 40 | |
| 44000155 | HOT-MIX ASPHALT SURFACE REMOVAL, 1 1/2" | SQ YD | 15902 | 15902 | |
| 48102100 | AGGREGATE WEDGE SHOULDER, TYPE B | TON | 432 | 432 | |
| 48203029 | HOT-MIX ASPHALT SHOULDERS, 8" | SQ YD | 255 | 255 | |
| 48203100 | HOT-MIX ASPHALT SHOULDERS | TON | 27 | 27 | |
| 50102400 | CONCRETE REMOVAL | CU YD | 8.8 | | 8.8 |

* SPECIALTY ITEM

MODEL: 2D Sheet H
FILE NAME: 2121046.08 IDOT D6 - PTB 19A-C30 - W08 - Christian County 72219-CADData\CADSheet\B672219-pts50001.dgn



| | | |
|-------------------------------|------------|-----------|
| USER NAME = msutheard | DESIGNED - | REVISED - |
| PLOT SCALE = 0.16666633 1/16" | DRAWN - | REVISED - |
| PLOT DATE = 1/29/2024 | CHECKED - | REVISED - |
| | DATE - | REVISED - |

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

| SUMMARY OF QUANTITIES | | | |
|-----------------------|-----------|-----------|--------------|
| SCALE: | SHEET 000 | OF SHEETS | STA. TO STA. |
| | | | |

| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|--|---------------------------|-----------|--------------|-----------|
| 714 | (135X.B-1)BJR.BDR.135RS-8 | CHRISTIAN | 37 | 3 |
| CONTRACT NO. 72219 | | | | |
| ILLINOIS FED. AID PROJECT STP-BR-WJEG(300) | | | | |

| CODE NO. | ITEM | UNIT | TOTAL QUANTITY | CONSTRUCTION CODE | |
|----------|--|-------|----------------|----------------------|----------------------|
| | | | | 6-01547-0100 | 6-01547-0000 |
| | | | | STP 80% FED / 20% ST | BFP 80% FED / 20% ST |
| | | | | ROADWAY | BRIDGE |
| | | | | 0005 | 0047 |
| | | | | RURAL | S.N. 011-0032 |
| 50105220 | PIPE CULVERT REMOVAL | FOOT | 96 | 96 | |
| 50300255 | CONCRETE SUPERSTRUCTURE | CU YD | 10.9 | | 10.9 |
| 50300260 | BRIDGE DECK GROOVING | SQ YD | 1795 | | 1795 |
| 50300300 | PROTECTIVE COAT | SQ YD | 1915 | | 1915 |
| 50500405 | FURNISHING AND ERECTING STRUCTURAL STEEL | POUND | 310 | | 310 |
| 50800205 | REINFORCEMENT BARS, EPOXY COATED | POUND | 1240 | | 1240 |
| 50800515 | BAR SPLICERS | EACH | 24 | | 24 |
| 52000110 | PREFORMED JOINT STRIP SEAL | FOOT | 138 | | 138 |
| 52100520 | ANCHOR BOLTS, 1" | EACH | 12 | | 12 |
| 542D0217 | PIPE CULVERTS, CLASS D, TYPE 1 12" | FOOT | 96 | 96 | |
| 54262/12 | METAL FLARED END SECTIONS 12" | EACH | 2 | 2 | |
| 59300100 | CONTROLLED LOW-STRENGTH MATERIAL | CU YD | 2 | 2 | |
| 60500060 | REMOVING INLETS | EACH | 2 | 2 | |
| 61000335 | TYPE G INLET BOX, STANDARD 610001 | EACH | 2 | 2 | |

* SPECIALTY ITEM

MODEL: 2D Sheet 4
FILE NAME: 20240608 IDOT D6-PTB-19A-C30-W08-Christian County 72219-CADData\CADSheets\B672219-pts50002.dgn



| | | |
|-------------------------------|------------|-----------|
| USER NAME = msutheard | DESIGNED - | REVISED - |
| PLOT SCALE = 0.16666633 1/16" | DRAWN - | REVISED - |
| PLOT DATE = 1/18/2024 | CHECKED - | REVISED - |
| | DATE - | REVISED - |

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES

SCALE: SHEET 000 OF SHEETS STA. TO STA.

| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|--|---------------------------|-----------|--------------|-----------|
| 714 | (135X.B-1)BJR.BDR.135RS-8 | CHRISTIAN | 37 | 4 |
| CONTRACT NO. 72219 | | | | |
| ILLINOIS FED. AID PROJECT STP-BR-WJEG(300) | | | | |

MODEL: 2D Sheet 4
 FILE NAME: 2121066.08 IDOT.D6 - PTB 19A-030 - W08 - Christian County 72219\CADD\Drawings\Sheet\B672219-PTB50003.dgn

| CODE NO. | ITEM | UNIT | TOTAL QUANTITY | CONSTRUCTION CODE | |
|------------|--|--------|----------------|----------------------|----------------------|
| | | | | 6-01547-0100 | 6-01547-0000 |
| | | | | STP 80% FED / 20% ST | BFP 80% FED / 20% ST |
| | | | | ROADWAY | BRIDGE |
| | | | | 0005 | 0047 |
| | | | | RURAL | S.N. 011-0032 |
| * 63000001 | STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS | FOOT | 275 | 275 | |
| * 63100085 | TRAFFIC BARRIER TERMINAL, TYPE 6 | EACH | 4 | 4 | |
| * 63100167 | TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT | EACH | 4 | 4 | |
| 63200310 | GUARDRAIL REMOVAL | FOOT | 673 | 673 | |
| 67000400 | ENGINEER'S FIELD OFFICE, TYPE A | CAL MO | 6 | 3 | 3 |
| 67100100 | MOBILIZATION | L SUM | 1 | 0.5 | 0.5 |
| 70100105 | 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 | 1 | |
| 70100500 | TRAFFIC CONTROL AND PROTECTION, STANDARD 701326 | L SUM | 1 | 1 | |
| 70106500 | TEMPORARY BRIDGE TRAFFIC SIGNALS | EACH | 1 | | 1 |
| 70106700 | TEMPORARY RUMBLE STRIPS | EACH | 6 | | 6 |
| 70107025 | CHANGEABLE MESSAGE SIGN | CAL DA | 134 | 120 | 14 |
| 70300100 | SHORT TERM PAVEMENT MARKING | FOOT | 1908 | 1908 | |

* SPECIALTY ITEM



USER NAME = msutheard
 PLOT SCALE = 0.16666633 1/16"
 PLOT DATE = 1/24/2024

DESIGNED -
 DRAWN -
 CHECKED -
 DATE -

REVISED -
 REVISED -
 REVISED -
 REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES
 SCALE: SHEET 000 OF SHEETS STA. TO STA.

| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|--|---------------------------|-----------|--------------|-----------|
| 714 | (135X.B-1)BJR.BDR.135RS-8 | CHRISTIAN | 37 | 5 |
| CONTRACT NO. 72219 | | | | |
| ILLINOIS FED. AID PROJECT STP-BR-WJEG(300) | | | | |

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| | | | | STP 80% FED / 20% ST | BFP 80% FED / 20% ST |
| | | | | ROADWAY | BRIDGE |
| | | | | 0005 | 0047 |
| | | | | RURAL | S.N. 011-0032 |
| 70300150 | SHORT TERM PAVEMENT MARKING REMOVAL | SQ FT | 210 | 210 | |
| 70400100 | TEMPORARY CONCRETE BARRIER | FOOT | 725 | | 725 |
| 70400200 | RELOCATE TEMPORARY CONCRETE BARRIER | FOOT | 725 | | 725 |
| 70600260 | IMPACT ATTENUATORS, TEMPORARY (FULLY REDIRECTIVE, NARROW), TEST LEVEL 3 | EACH | 2 | | 2 |
| 70600332 | IMPACT ATTENUATORS, RELOCATE (FULLY REDIRECTIVE, NARROW), TEST LEVEL 3 | EACH | 2 | | 2 |
| 72501000 | TERMINAL MARKER - DIRECT APPLIED | EACH | 4 | 4 | |
| * 78009005 | MODIFIED URETHANE PAVEMENT MARKING - LINE 5" | FOOT | 15431 | 15431 | |
| * 78100100 | RAISED REFLECTIVE PAVEMENT MARKER | EACH | 74 | 74 | |
| 78200005 | GUARDRAIL REFLECTORS, TYPE A | EACH | 14 | 14 | |
| 78300200 | RAISED REFLECTIVE PAVEMENT MARKER REMOVAL | EACH | 74 | 74 | |
| 78300201 | PAVEMENT MARKING REMOVAL - GRINDING | SQ FT | 1025 | | 1025 |
| X0325748 | ACRYLIC COATING | SQ YD | 40.9 | | 40.9 |
| X0325749 | FIBER WRAP | SQ FT | 369 | | 369 |
| X2020060 | EXCAVATING AND GRADING EXISTING SHOULDER, (SPECIAL) | UNIT | 6 | 6 | |

* SPECIALTY ITEM

REV. - MS

MODEL: 3D Sheet 11
FILE NAME: 20230406_08_000T D6 - PTB 195-030 - W08 - Christian County 72219-CADDrawn-CADsheet0672219-att-50004.dgn



| | | |
|-------------------------------|------------|-----------|
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| | DATE - | REVISED - |

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

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| | | | | ROADWAY | BRIDGE |
| | | | | 0005 | 0047 |
| | | | | RURAL | S.N. 011-0032 |
| X5060601 | CONTAINMENT AND DISPOSAL OF NON-LEAD PAINT CLEANING RESIDUES NO. 1 | L SUM | 1 | | 1 |
| X5060704 | CLEANING AND PAINTING EXPOSED REBAR | SQ FT | 23 | | 23 |
| X7200201 | WIDTH RESTRICTION SIGNING | L SUM | 1 | | 1 |
| Z0001800 | APPROACH SLAB REPAIR (PARTIAL DEPTH) | SQ YD | 19 | 19 | |
| Z0010501 | CLEANING AND PAINTING STEEL BRIDGE NO. 1 | L SUM | 1 | | 1 |
| Z0012130 | BRIDGE DECK SCARIFICATION 3/4" | SQ YD | 1915 | | 1915 |
| Z0012164 | BRIDGE DECK MICROSILICA CONCRETE OVERLAY 2 1/2" | SQ YD | 1915 | | 1915 |
| Z0012754 | STRUCTURAL REPAIR OF CONCRETE (DEPTH EQUAL TO OR LESS THAN 5 INCHES) | SQ FT | 161 | | 161 |
| Z0013798 | CONSTRUCTION LAYOUT | L SUM | 1 | 1 | |
| Z0016002 | DECK SLAB REPAIR (FULL DEPTH, TYPE II) | SQ YD | 12 | | 12 |
| ∅ Z0076600 | TRAINEES | HOUR | 1500 | 1500 | |
| Z0034105 | MATERIAL TRANSFER DEVICE | TON | 1407 | 1407 | |
| ∅ Z0076604 | TRAINEES TRAINING PROGRAM GRADUATE | HOUR | 1500 | 1500 | |
| Z0043800 | PRECAST PRESTRESSED CONCRETE I-BEAM REPAIR | SQ FT | 92 | | 92 |

* SPECIALTY ITEM

∅ 0042

REV. - MS

MODEL: 2D Sheet 11
FILE NAME: 20230406_08 IDOT D6 - PTB 195-030 - W08 - Christian County 72219-CADD.tbl\CD\sheet1072219-att-50005.dgn

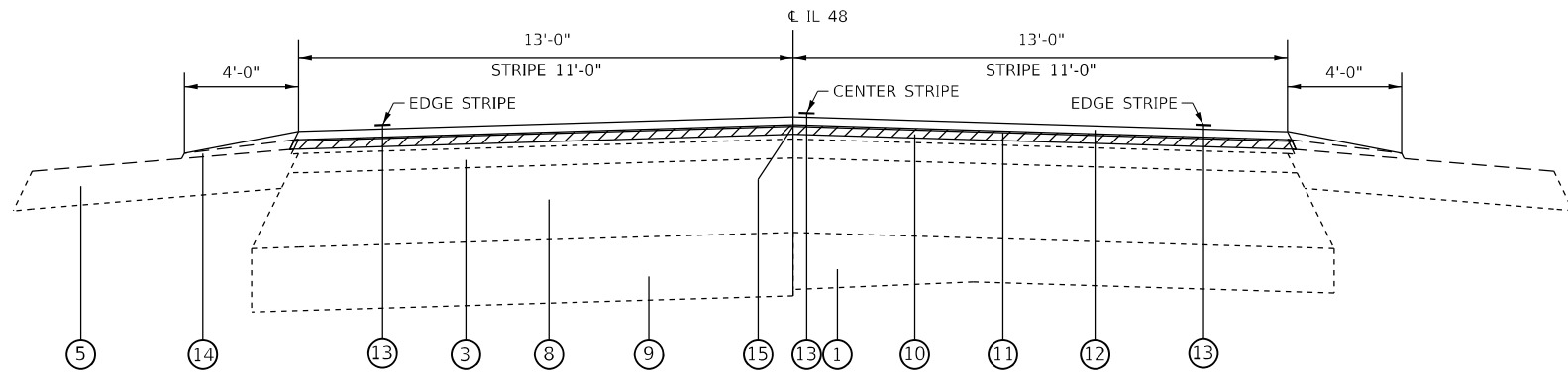


| | | |
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| PLOT SCALE = 0.16666633 1/in. | DRAWN - | REVISED - |
| PLOT DATE = 1/19/2024 | CHECKED - | REVISED - |
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

| SUMMARY OF QUANTITIES | | | |
|-----------------------|-----------|----|--------|
| SCALE: | SHEET 000 | OF | SHEETS |
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| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---|---------------------------|-----------|--------------|-----------|
| 714 | (135X,B-1)B/R,BDR,135RS-B | CHRISTIAN | 37 | 7 |
| CONTRACT NO. 72219 | | | | |
| ILLINOIS FED. AID PROJECT STP-BR-WJ6(300) | | | | |

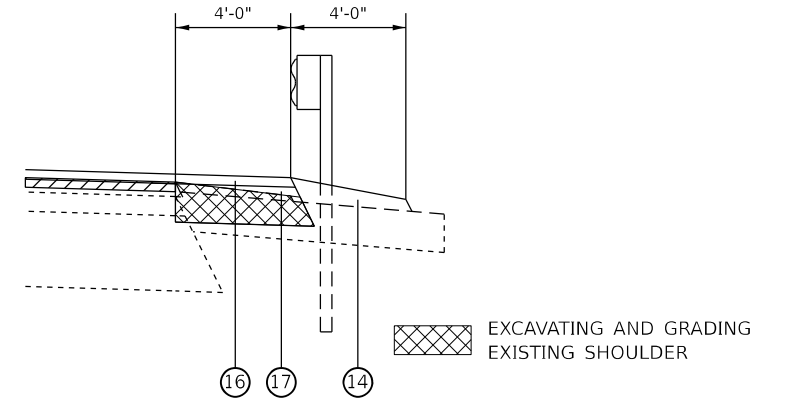


TYPICAL SECTION – IL 48

STA 933+40.00 TO STA 939+00.00
 STA 979+75.00 TO STA 988+10.28

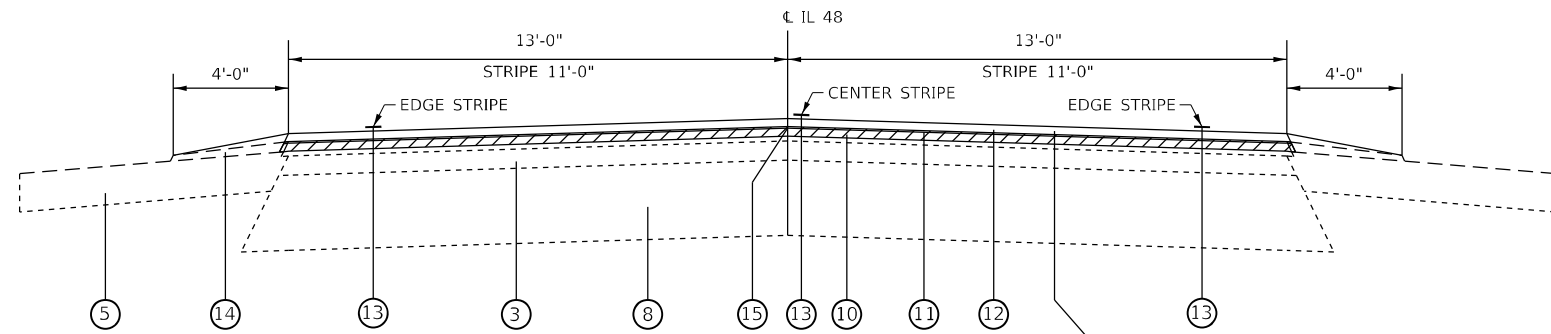
STATION EQUATION

STA 986+91.28 BK = STA 986+85.72 AH



TYPICAL GUARDRAIL SECTION – IL 48

RT STA. 944+50.00 TO STA. 946+15.40
 LT STA. 944+88.00 TO STA. 946+15.40
 RT STA. 951+85.70 TO STA. 953+00.00
 LT STA. 951+85.70 TO STA. 953+50.00



TYPICAL SECTION – IL 48

STA 939+00 TO STA 979+75
 STAT 988+10.28 TO STA 988+41.33

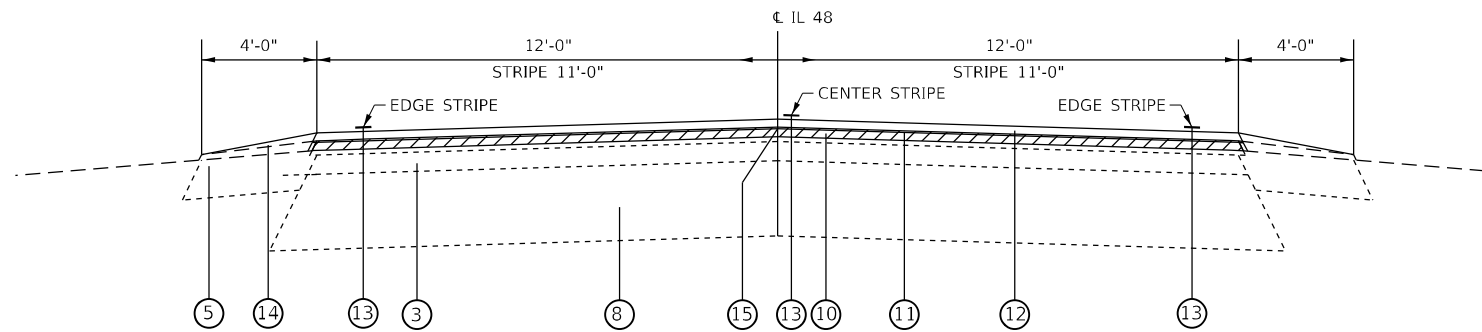
BRIDGE OMISSION

STA 945+29.44 TO STA 952+70.61

18 APPROACH PAVEMENT
 STA. 945+29.4 TO STA. 946+30.4
 STA. 951+69.7 TO STA. 952+70.6

LEGEND

- 1 EXISTING PCC PAVEMENT (9"-7"-9")
- 2 EXISTING PCC WIDENING, 9"
- 3 EXISTING HMA OVERLAY
- 4 EXISTING HMA SHOULDER
- 5 EXISTING AGGREGATE SHOULDER
- 6 EXISTING PCC BASE COURSE, 9"
- 7 EXISTING CONCRETE GUTTER
- 8 EXISTING HMA PAVEMENT, 11 3/4"
- 9 EXISTING HMA BASE COURSE, 10"
- 10 PROPOSED HMA SURFACE REMOVAL, 1 1/2"
- 11 PROPOSED HMA BINDER COURSE, 1 1/4"
- 12 PROPOSED HMA SURFACE COURSE, 1 1/2"
- 13 PROPOSED MODIFIED URETHANE PAVEMENT MARKING, 5"
- 14 PROPOSED AGGREGATE WEDGE SHOULDER, TYPE B
- 15 PROPOSED LONGITUDINAL JOINT SEALANT
- 16 PROPOSED HMA SHOULDERS, 1 3/4" (TONS)
- 17 PROPOSED HMA SHOULDERS, 8"
- 18 PROPOSED HMA SURFACE COURSE, 1 3/4"



TYPICAL SECTION – IL 48

STA 988+41.33 TO STA 997+01.20

MODEL: Typical Section 4 (Sheet)
 FILE NAME: \\132.166.0.02\DOT\DC-PTB-19A-030-W08-PTB-19A-030-1\W08-PTB-19A-030-1\CADD\Drawings\Sheet\0672219-01\TYPICAL.DGN



| | | |
|-------------------------------|------------|-----------|
| USER NAME = msutheard | DESIGNED - | REVISED - |
| PLOT SCALE = 1.99999600 1/in. | DRAWN - | REVISED - |
| PLOT DATE = 1/29/2024 | CHECKED - | REVISED - |
| | DATE - | REVISED - |

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

| TYPICAL SECTIONS | |
|------------------|------------------------------|
| SCALE: | SHEET OF SHEETS STA. TO STA. |

| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|--|---------------------------|-----------|--------------|-----------|
| 714 | (135X.B-1)BJR,BDR,135RS-8 | CHRISTIAN | 37 | 8 |
| CONTRACT NO. 72219 | | | | |
| ILLINOIS FED. AID PROJECT STP-BR-WJEG(300) | | | | |

Long Section Number

PAVING SCHEDULE

| LOCATION | | | | | 40600290 | 40600370 | 40600982 | 40600990 | 40602965 | 40604050 | 40800029 | 40800050 | 44000155 |
|----------------------------------|----|----------|------|-------------|---------------|---------------|-----------------|------------|-----------------|-------------------------|-------------|---------------|-----------------|
| STATION | TO | STATION | SIDE | DESCRIPTION | BITUMINOUS | LONGITUDINAL | HOT-MIX ASPHALT | TEMPORARY | HOT-MIX ASPHALT | HOT-MIX ASPHALT | BITUMINOUS | INCIDENTAL | HOT-MIX ASPHALT |
| | | | | | MATERIALS | JOINT SEALANT | SURF. REMOVAL | RAMP | BINDER COURSE, | SURFACE COURSE, | MATERIALS | HMA SURFACING | SURFACE REMOVAL |
| | | | | | (TACK COAT) | | - BUTT JOINT | | IL-9.5FG, N50 | IL-9.5, MIX "C", N50 | (TACK COAT) | | 1-1/2" |
| | | | | | POUND | FOOT | SQ YD | SQ YD | TON | TON | POUND | TON | SQ YD |
| FAP 714 (IL 48) | | | | | | | | | | | | | |
| 933+40.0 | - | 945+29.4 | | | | | | | | 240 | | | |
| 933+40.0 | - | 946+30.4 | | | 2525 | 1290 | | | | | 316 | | |
| 933+40.0 | - | 933+45.0 | | ON BINDER | | | | 14 | | | | | |
| 933+40.0 | - | 933+49.2 | | ON MILLING | | | | 27 | | | | | |
| 933+40.0 | - | 933+95.0 | | | | | 159 | | | | | | |
| 933+95.0 | - | 945+29.4 | | | | | | | | | | | 3278 |
| 946+20.4 | - | 946+30.4 | | | | | | 29 | | | | | |
| 951+69.7 | - | 951+79.7 | | | | | | 29 | | | | | |
| 951+69.7 | - | 988+41.3 | | | 7168 | 3677 | | | | 895 | | | |
| 952+70.6 | - | 988+41.3 | | | | | | | 722 | | | | 10331 |
| 988+41.3 | - | 997+01.2 | | | 1548 | 860 | | | 163 | 196 | | | 2293 |
| 996+96.2 | - | 997+01.2 | | | | | | 14 | | | | | |
| ENTRANCES & SIDEROADS | | | | | | | | | | | | | |
| 942+42.4 | - | 943+06.4 | LT | PE | | | 55 | | | | 23 | 6 | |
| 950+92.1 | - | 959+42.2 | LT | SIDEROAD | | | 45 | | | | 20 | 5 | |
| 976+26.2 | - | 977+76.8 | LT | CE | | | 138 | | | | 62 | 16 | |
| 988+33.2 | - | 988+83.4 | RT | PE | | | 54 | | | | 24 | 6 | |
| 988+43.3 | - | 989+23.4 | LT | PE | | | 60 | | | | 27 | 7 | |
| - | | | | | | | | | | | | | |
| - | | | | | | | | | | | | | |
| TOTALS | | | | | 11,241 | 5,827 | 511 | 113 | 1,125 | 1,407 | 156 | 40 | 15,902 |

SHOULDER SCHEDULE

| LOCATION | | | | 48102100 | 48203029 | 48203100 | X2020060 |
|---------------|----|----------|------|--------------|-----------------|-----------------|------------------|
| STATION | TO | STATION | SIDE | AGGREGATE | HOT-MIX ASPHALT | HOT-MIX ASPHALT | EXCAVATING AND |
| | | | | WEDGE SHLDS, | SHOULDERS, | SHOULDERS | GRADING EXISTING |
| | | | | TYPE B | 8" | | SHOULDER, |
| | | | | TON | SQ YD | TON | (SPECIAL) |
| | | | | | | | UNIT |
| 933+40.0 | - | 942+46.0 | LT | 34 | | | |
| 933+40.0 | - | 946+30.0 | RT | 49 | | | |
| 943+02.0 | - | 946+30.0 | LT | 13 | | | |
| 944+50.0 | - | 946+15.4 | RT | | 74 | 8 | 1.65 |
| 944+88.0 | - | 946+15.4 | LT | | 57 | 6 | 1.27 |
| 951+70.0 | - | 958+96.0 | LT | 28 | | | |
| 951+70.0 | - | 988+37.0 | RT | 140 | | | |
| 951+85.7 | - | 953+00.0 | RT | | 51 | 5 | 1.14 |
| 951+85.7 | - | 953+50.0 | LT | | 73 | 8 | 1.64 |
| 959+38.0 | - | 976+60.0 | LT | 65 | | | |
| 977+62.0 | - | 988+47.0 | LT | 42 | | | |
| 988+79.0 | - | 997+01.2 | RT | 31 | | | |
| 989+09.0 | - | 997+01.2 | LT | 30 | | | |
| TOTALS | | | | 432 | 255 | 27 | 5.70 |

PIPE CULVERT SCHEDULE

| LOCATION | | 50105220 | 542D0217 | 54262712 |
|---------------|------|--------------|-----------------|--------------|
| STATION | SIDE | PIPE CULVERT | PIPE CULVERTS, | METAL FLARED |
| | | REMOVAL | CLASS D, TYPE 1 | END SECTIONS |
| | | 12" | 12" | 12" |
| | | FOOT | FOOT | EACH |
| 951+82.4 | LT | 48 | 48 | 1 |
| 951+82.4 | RT | 48 | 48 | 1 |
| TOTALS | | 96 | 96 | 2 |

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SCHEDULE OF QUANTITIES

SCALE: SHEET 000 OF SHEETS STA. TO STA.

| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|--|---------------------------|-----------|--------------|-----------|
| 714 | (135X.B-1)BJR.BDR.135RS-8 | CHRISTIAN | 37 | 9 |
| CONTRACT NO. 72219 | | | | |
| ILLINOIS FED. AID PROJECT STP-BR-WJEG(300) | | | | |

MODEL: 2D Sheet 4
 FILE NAME: 2121066.08 IDOT D6 - PTB 19A-A30 - W08 - Christian County 72219 CAD Data\CAD Sheets\0672219-9h-shoulder01.dgn



USER NAME = msutheard
 PLOT SCALE = 0.16666633 1/16"
 PLOT DATE = 1/29/2024

DESIGNED -
 DRAWN -
 CHECKED -
 DATE -

REVISED -
 REVISED -
 REVISED -
 REVISED -

| PAVEMENT MARKING SCHEDULE | | | | | | | |
|---------------------------|----|----------|------|-------------|--|--------------------------------------|---|
| LOCATION | | | | DESCRIPTION | 78009005 | 78100100 | 78300200 |
| STATION | TO | STATION | SIDE | | MODIFIED URETHANE PAVEMENT MARKING - LINE 5" | RAISED REFLECTIVE PAVEMENT MARKER | RAISED REFLECTIVE PAVEMENT MARKER REMOVAL |
| | | | | TYPE | COLOR | FOOT | EACH |
| 933+40.0 | - | 946+20.4 | CL | | | | 17 |
| 933+40.0 | - | 997+01.2 | CL | SKIP-DASH | YELLOW | 1590 | |
| 933+40.0 | - | 935+03.0 | LT | NO PASSING | YELLOW | 163 | |
| 933+40.0 | - | 997+01.2 | LT | EDGE LINE | WHITE | 6361 | |
| 933+40.0 | - | 997+01.2 | RT | EDGE LINE | WHITE | 6361 | |
| 951+69.7 | - | 997+01.2 | CL | | | | 57 |
| 987+45.0 | | 997+01.2 | RT | NO PASSING | YELLOW | 956 | |
| TOTALS | | | | | | 15,431 | 74 |

| SHORT TERM PAVEMENT MARKING SCHEDULE | | | | | |
|--------------------------------------|----|---------|---------------------------|-----------------------------------|--|
| LOCATION | | | NUMBER OF APPLICATIONS | 70300100 | 70300150 |
| STATION | TO | STATION | | SHORT TERM PAVEMENT MARKING | SHORT TERM PAVEMENT MARKING REMOVAL |
| | | | | FOOT | SQ FT |
| 933+40 | - | 997+01 | 3 | 1908 | 210 |
| TOTALS | | | | 1,908 | 210 |

| GUARDRAIL SCHEDULE | | | | | | | | | |
|--------------------|----|----------|---------|---|--|---|----------------------|--|------------------------------------|
| LOCATION | | | | 63000001 | 63100085 | 63100167 | 63200310 | 72501000 | 78200005 |
| STATION | TO | STATION | SIDE | STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS | TRAFFIC BARRIER TERMINAL, TYPE 6 | TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT | GUARDRAIL REMOVAL | TERMINAL MARKER - DIRECT APPLIED | GUARDRAIL REFLECTORS, TYPE A |
| | | | | FOOT | EACH | EACH | FOOT | EACH | EACH |
| 944+55.0 | - | 946+45.0 | RT | | | | 190.0 | | |
| 944+56.0 | - | 945+06.0 | RT | | | 1 | | 1 | |
| 944+92.0 | - | 946+45.0 | LT | | | | 153.0 | | |
| 944+93.5 | - | 945+43.5 | LT | | | 1 | | 1 | |
| 945+06.0 | | 945+93.5 | RT | 87.5 | | | | | 1 |
| 945+43.5 | | | LT & RT | | | | | | 2 |
| 945+43.5 | - | 945+93.5 | LT | 50.0 | | | | | |
| 945+81.0 | | | LT & RT | | | | | | 2 |
| 945+93.5 | - | 946+32.9 | RT | | 1 | | | | |
| 945+93.5 | - | 946+32.9 | LT | | 1 | | | | |
| 946+18.5 | | | LT & RT | | | | | | 2 |
| 951+55.0 | - | 952+95.0 | RT | | | | 140.0 | | |
| 951+55.0 | - | 953+45.0 | LT | | | | 190.0 | | |
| 951+67.2 | - | 952+06.6 | RT | | 1 | | | | |
| 951+67.2 | - | 952+06.6 | LT | | 1 | | | | |
| 951+81.6 | | | LT & RT | | | | | | 2 |
| 952+06.6 | - | 952+56.1 | RT | 50.0 | | | | | |
| 952+06.6 | - | 952+94.1 | LT | 87.5 | | | | | |
| 952+12.8 | | | RT | | | | | | 1 |
| 952+19.1 | | | LT | | | | | | 1 |
| 952+56.1 | | | RT | | | | | | 1 |
| 952+56.1 | - | 953+06.1 | RT | | | 1 | | 1 | |
| 952+56.6 | | | LT | | | | | | 1 |
| 952+94.1 | | | LT | | | | | | 1 |
| 952+94.1 | - | 953+44.1 | LT | | | 1 | | 1 | |
| TOTALS | | | | 275.0 | 4 | 4 | 673.0 | 4 | 14 |

MODEL: 2D Sheet 4
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 PLOT DATE = 1/19/2024

DESIGNED -
 DRAWN -
 CHECKED -
 DATE -

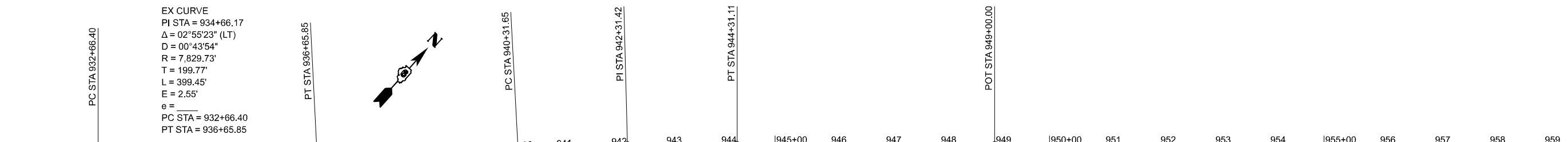
REVISED -
 REVISED -
 REVISED -
 REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SCHEDULE OF QUANTITIES

SCALE: SHEET 000 OF SHEETS STA. TO STA.

| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|--|---------------------------|-----------|--------------|-----------|
| 714 | (135X.B-1)BJR.BDR.135RS-8 | CHRISTIAN | 37 | 10 |
| CONTRACT NO. 72219 | | | | |
| ILLINOIS FED. AID PROJECT STP-BR-WJEG(300) | | | | |



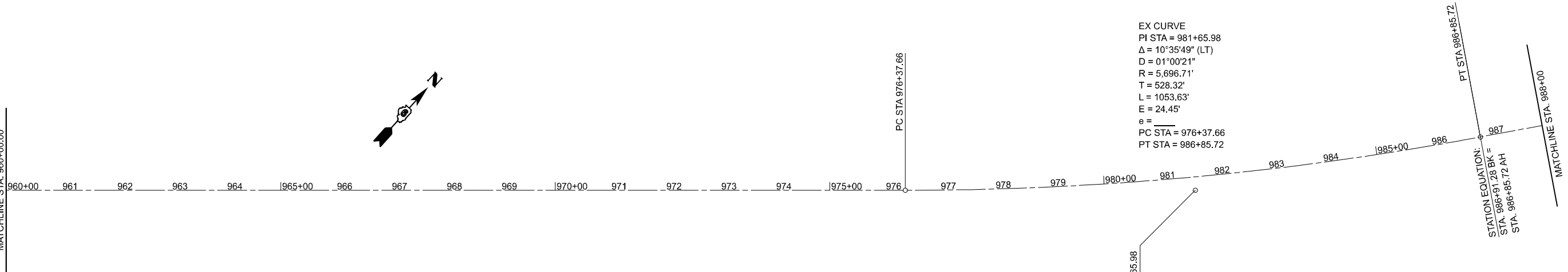
EX CURVE
 PI STA = 934+66.17
 $\Delta = 02^{\circ}55'23''$ (LT)
 $D = 00^{\circ}43'54''$
 $R = 7,829.73'$
 $T = 199.77'$
 $L = 399.45'$
 $E = 2.55'$
 $e =$
 PC STA = 932+66.40
 PT STA = 936+65.85

EX CURVE
 PI STA = 942+31.42
 $\Delta = 02^{\circ}56'58''$ (RT)
 $D = 00^{\circ}44'18''$
 $R = 7,759.44'$
 $T = 199.77'$
 $L = 399.45'$
 $E = 2.57'$
 $e =$
 PC STA = 940+31.65
 PT STA = 944+31.11

STATION EQUATION:
 STA. 932+67.44 BK =
 STA. 932+66.40 AH
 PROJECT BEGINS
 STA. 933+40.00

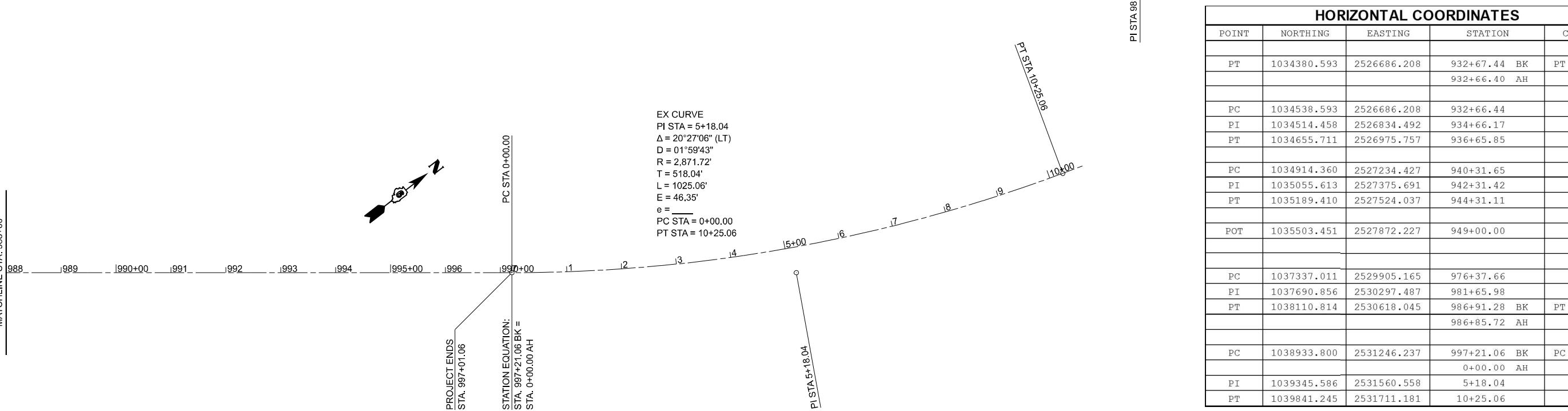
PI STA 934+66.17

| VERTICAL CONTROL POINTS | | | | |
|-------------------------|-------------------------------|--|-----------|-----------|
| BENCHMARK | NAVD 88 DATUM ELEV IN FEET | DESCRIPTION | STATION | OFFSET |
| BM WS-56 | 583.934 | CHSLD [] ON CENTER OF CONC HDWL ON SE SIDE IL 48 | 938+20.95 | 46.09 RT |
| BM JG-131 | 578.019 | CHSLD [] ON SE WINGWALL ON STR #011-0032 OVER SOUTH FORK SANGAMON RIVER | 946+29.55 | 18.51 RT |
| USGS 13 DDB | 593.321 | STD TABLET IN NW WINGWALL TO RR BRIDGE OVER SOUTH FORK SANGAMON RIVER | 950+11.09 | 168.58 RT |



EX CURVE
 PI STA = 981+65.98
 $\Delta = 10^{\circ}35'49''$ (LT)
 $D = 01^{\circ}00'21''$
 $R = 5,696.71'$
 $T = 528.32'$
 $L = 1053.63'$
 $E = 24.45'$
 $e =$
 PC STA = 976+37.66
 PT STA = 986+85.72

STATION EQUATION:
 STA. 986+91.28 BK =
 STA. 986+85.72 AH



EX CURVE
 PI STA = 5+18.04
 $\Delta = 20^{\circ}27'06''$ (LT)
 $D = 01^{\circ}59'43''$
 $R = 2,871.72'$
 $T = 518.04'$
 $L = 1025.06'$
 $E = 46.35'$
 $e =$
 PC STA = 0+00.00
 PT STA = 10+25.06

PROJECT ENDS
 STA. 997+01.06

STATION EQUATION:
 STA. 997+21.06 BK =
 STA. 0+00.00 AH

PI STA 5+18.04

| HORIZONTAL COORDINATES | | | | |
|------------------------|-------------|-------------|--------------|-------------|
| POINT | NORTHING | EASTING | STATION | COMMENTS |
| PT | 1034380.593 | 2526686.208 | 932+67.44 BK | PT & STA EQ |
| | | | 932+66.40 AH | |
| PC | 1034538.593 | 2526686.208 | 932+66.44 | |
| PI | 1034514.458 | 2526834.492 | 934+66.17 | |
| PT | 1034655.711 | 2526975.757 | 936+65.85 | |
| PC | 1034914.360 | 2527234.427 | 940+31.65 | |
| PI | 1035055.613 | 2527375.691 | 942+31.42 | |
| PT | 1035189.410 | 2527524.037 | 944+31.11 | |
| POT | 1035503.451 | 2527872.227 | 949+00.00 | |
| PC | 1037337.011 | 2529905.165 | 976+37.66 | |
| PI | 1037690.856 | 2530297.487 | 981+65.98 | |
| PT | 1038110.814 | 2530618.045 | 986+91.28 BK | PT & STA EQ |
| | | | 986+85.72 AH | |
| PC | 1038933.800 | 2531246.237 | 997+21.06 BK | PC & STA EQ |
| | | | 0+00.00 AH | |
| PI | 1039345.586 | 2531560.558 | 5+18.04 | |
| PT | 1039841.245 | 2531711.181 | 10+25.06 | |

MODEL: 2D Sheet 4
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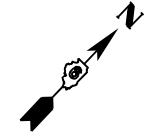


| | | |
|-------------------------------|------------|-----------|
| USER NAME = msutheard | DESIGNED - | REVISED - |
| PLOT SCALE = 0.16666633 1/16" | DRAWN - | REVISED - |
| PLOT DATE = 1/19/2024 | CHECKED - | REVISED - |
| | DATE - | REVISED - |

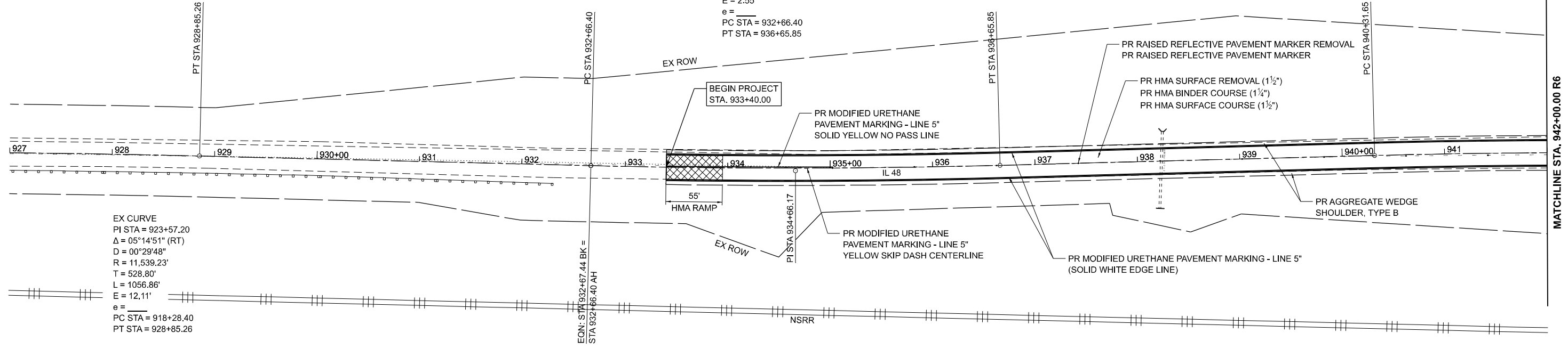
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

| | | | | |
|--------|--|---------------------|--|--------------------------|
| SCALE: | | SHEET 000 OF SHEETS | | STA. _____ TO STA. _____ |
|--------|--|---------------------|--|--------------------------|

| | | | | |
|--|-----------------------------------|------------------|-----------------|--------------|
| F.A.P. RTE. 714 | SECTION (135X-B-1)BJR.BDR.135RS-8 | COUNTY CHRISTIAN | TOTAL SHEETS 37 | SHEET NO. 11 |
| CONTRACT NO. 72219 | | | | |
| ILLINOIS FED. AID PROJECT STP-BR-WJEG(300) | | | | |



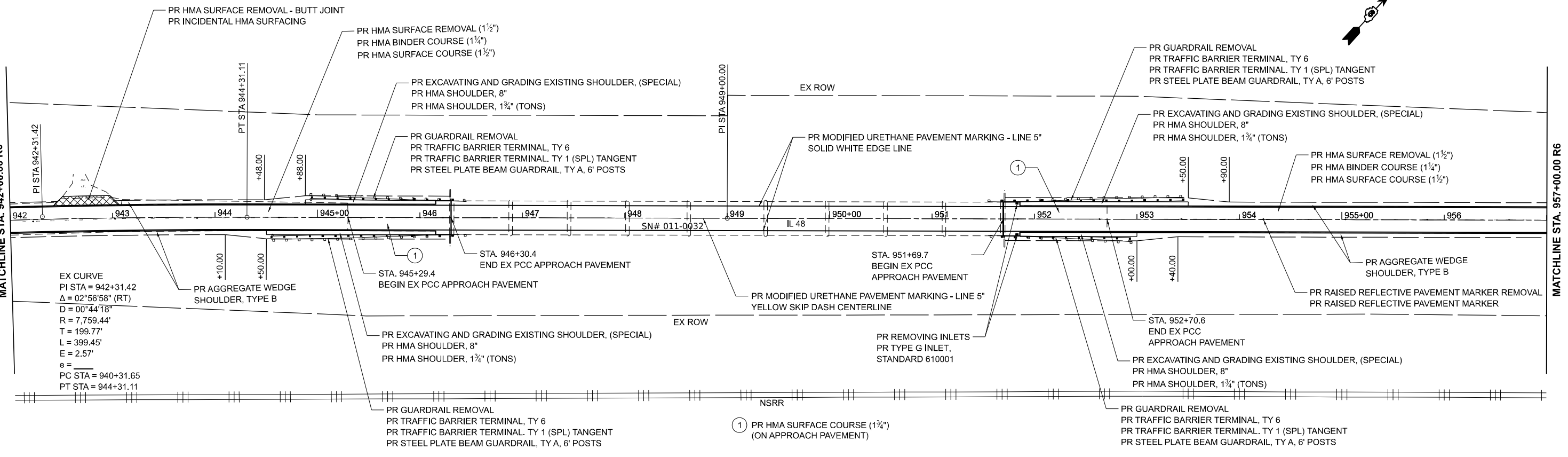
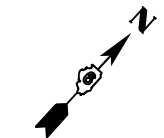
EX CURVE
 PI STA = 934+66.17
 $\Delta = 02^{\circ}55'23"$ (LT)
 $D = 00^{\circ}43'54"$
 $R = 7,829.73'$
 $T = 199.77'$
 $L = 399.45'$
 $E = 2.55'$
 $e =$
 PC STA = 932+66.40
 PT STA = 936+65.85



EX CURVE
 PI STA = 923+57.20
 $\Delta = 05^{\circ}14'51"$ (RT)
 $D = 00^{\circ}29'48"$
 $R = 11,539.23'$
 $T = 528.80'$
 $L = 1056.86'$
 $E = 12.11'$
 $e =$
 PC STA = 918+28.40
 PT STA = 928+85.26

EON: STA 932+67.44 BK =
 STA 932+66.40 AH

MATCHLINE STA. 942+00.00 R6



EX CURVE
 PI STA = 942+31.42
 $\Delta = 02^{\circ}56'58"$ (RT)
 $D = 00^{\circ}44'18"$
 $R = 7,759.44'$
 $T = 199.77'$
 $L = 399.45'$
 $E = 2.57'$
 $e =$
 PC STA = 940+31.65
 PT STA = 944+31.11

① PR HMA SURFACE COURSE (1 3/4")
 (ON APPROACH PAVEMENT)

MATCHLINE STA. 957+00.00 R6

MODEL: E:\CL\64 - Plan 1
 FILE NAME: 1212104502 IDOT D6 - P1B 199-030 - W08 - Christian County 72219\CAD\Drawings\DOT\2212104502.dgn

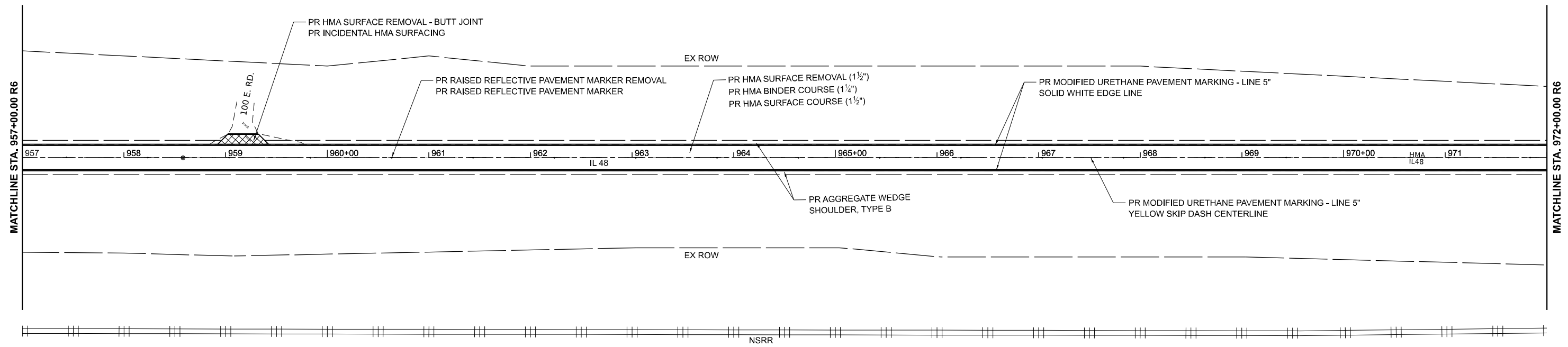
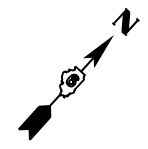


| | | |
|-------------------------------|------------|-----------|
| USER NAME = msutheard | DESIGNED - | REVISED - |
| PLOT SCALE = 0.16666633 1/16" | DRAWN - | REVISED - |
| PLOT DATE = 1/23/2024 | CHECKED - | REVISED - |
| | DATE - | REVISED - |

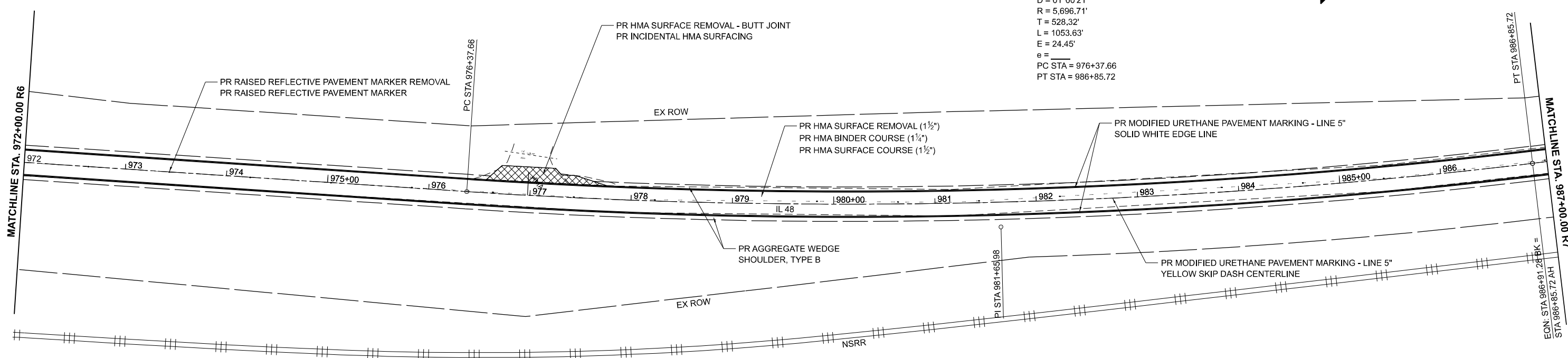
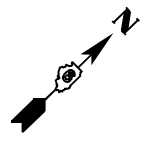
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

| | |
|---------------------------------------|------------------------------|
| PLAN SHEET FAP 714 (IL 48) | |
| SCALE: | SHEET OF SHEETS STA. TO STA. |

| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|--|---------------------------|-----------|--------------|-----------|
| 714 | (135X.B-1)BJR,BDR 135RS-8 | CHRISTIAN | 37 | 12 |
| CONTRACT NO. 72219 | | | | |
| ILLINOIS FED. AID PROJECT STP-BR-WJEG(300) | | | | |



EX CURVE
 PI STA = 981+65.98
 $\Delta = 10^{\circ}35'49"$ (LT)
 $D = 01^{\circ}00'21"$
 $R = 5,696.71'$
 $T = 528.32'$
 $L = 1053.63'$
 $E = 24.45'$
 $e =$
 PC STA = 976+37.66
 PT STA = 986+85.72



**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**PLAN SHEET
 FAP 714 (IL 48)**

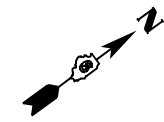


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| PLOT DATE = 1/23/2024 | CHECKED - | REVISED - |
| | DATE - | REVISED - |

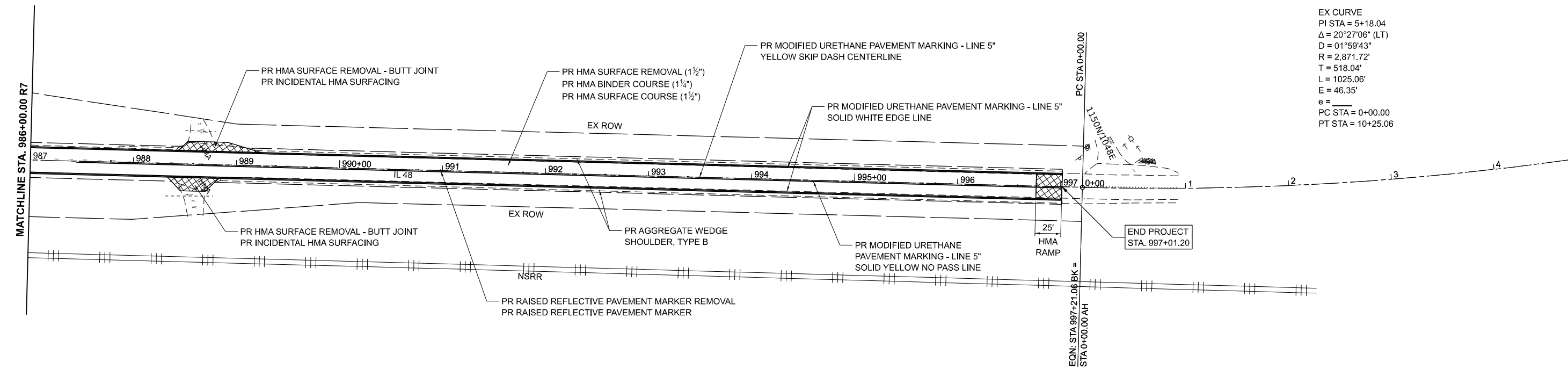
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| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|--|---------------------------|-----------|--------------|-----------|
| 714 | (135X.B-1)BJR.BDR 135RS-8 | CHRISTIAN | 37 | 13 |
| CONTRACT NO. 72219 | | | | |
| ILLINOIS FED. AID PROJECT STP-BR-WJEG(300) | | | | |

MODEL: E:\CL\64 - Plan 3
 FILE NAME: 132104E08.DOT.D6 - PTB 199-A00 - W08 - Christian County 72219\CADD\Drawn\CD\Sheet0672219-9-ah-rplan02.dgn



EX CURVE
 PI STA = 5+18.04
 $\Delta = 20^{\circ}27'06''$ (LT)
 $D = 01^{\circ}59'43''$
 $R = 2,871.72'$
 $T = 518.04'$
 $L = 1025.06'$
 $E = 46.35'$
 $e =$
 PC STA = 0+00.00
 PT STA = 10+25.06



MODEL: E:\CL\64 - Plan 5
 FILE NAME: 121204E03.DOT D6 - PTB 19A-030 - W08 - Christian County 72219\CADD\Drawings\Drawings\72219-SubPlan03.dgn



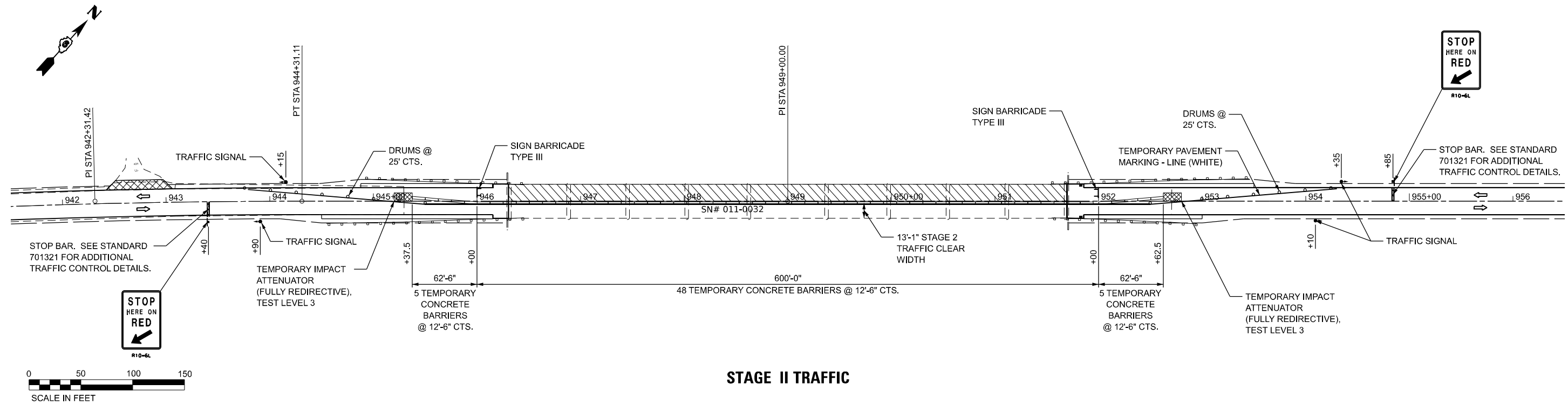
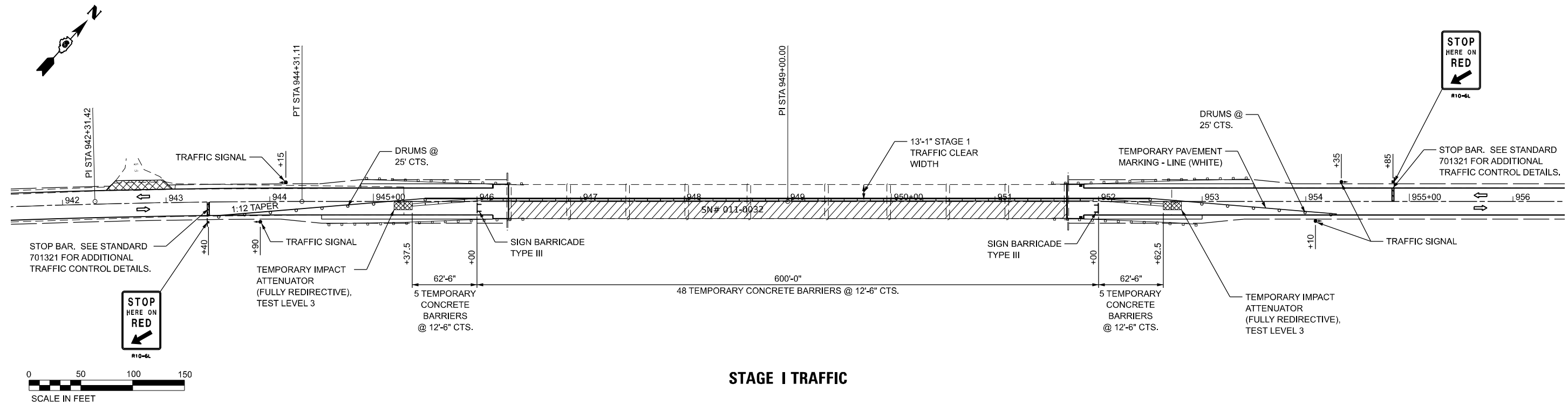
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| PLOT DATE = 1/19/2024 | CHECKED - | REVISED - |
| | DATE - | REVISED - |

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**PLAN SHEET
 FAP 714 (IL 48)**

SCALE: SHEET OF SHEETS STA. TO STA.

| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|--|---------------------------|-----------|--------------|-----------|
| 714 | (135X.B-1)BJR.BDR 135RS-8 | CHRISTIAN | 37 | 14 |
| CONTRACT NO. 72219 | | | | |
| ILLINOIS FED. AID PROJECT STP-BR-WJEG(300) | | | | |



MODEL: 2D Sheet 4
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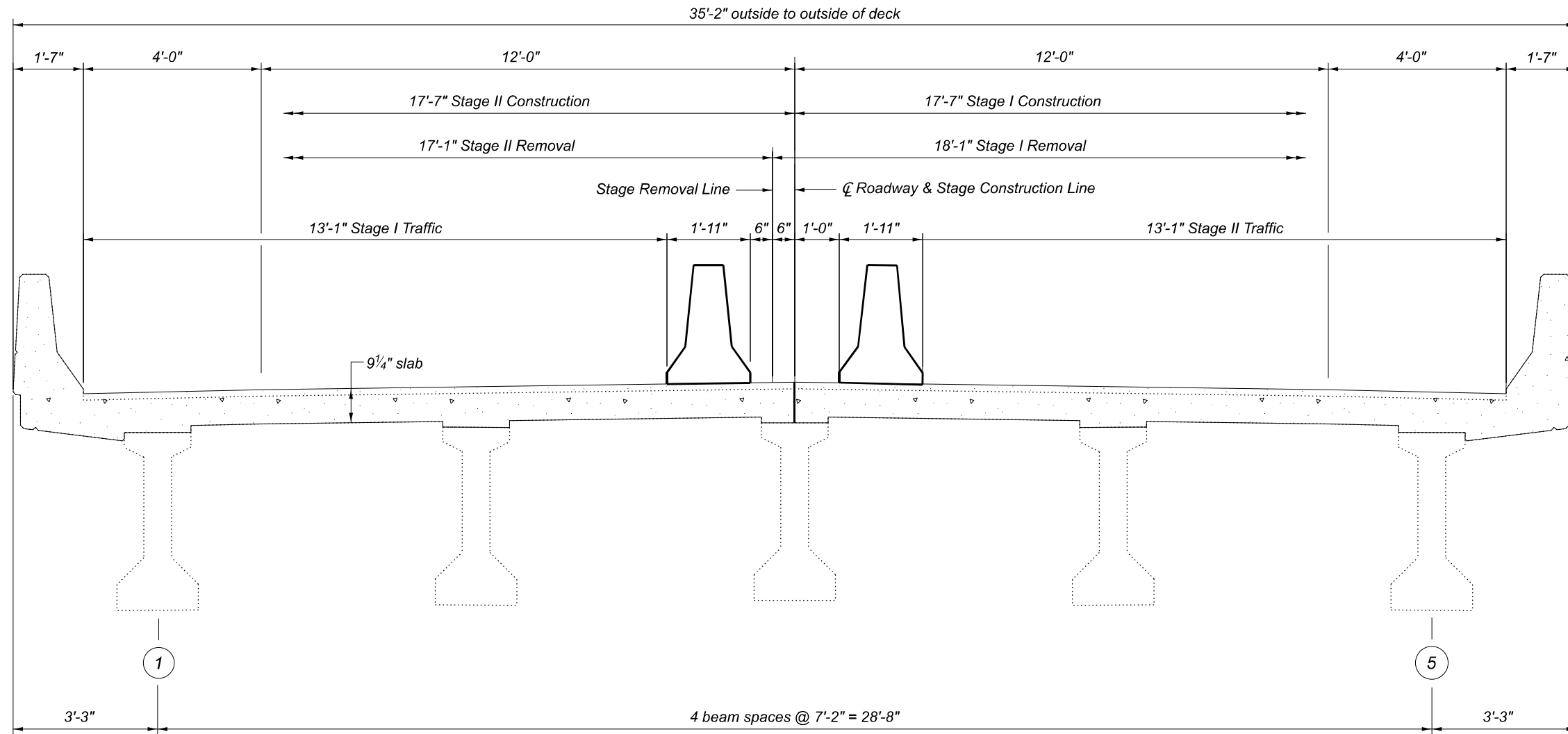


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|-------------------------------|------------|-----------|
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| PLOT SCALE = 0.16666633 1/16" | DRAWN - | REVISED - |
| PLOT DATE = 1/19/2024 | CHECKED - | REVISED - |
| | DATE - | REVISED - |

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

| | | | |
|---------------------|-----------|-----------|------------------------|
| STAGING PLAN | | | |
| SCALE: | SHEET 000 | OF SHEETS | STA. ____ TO STA. ____ |

| | | | | |
|--|---------------------------|-----------|--------------|-----------|
| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 714 | (135X-B-1)BJR,BDR,135RS-8 | CHRISTIAN | 37 | 15 |
| CONTRACT NO. 72219 | | | | |
| ILLINOIS FED. AID PROJECT STP-BR-WJEG(300) | | | | |



STAGING CROSS SECTION

(Looking East)

MODEL: 2D Sheet 11
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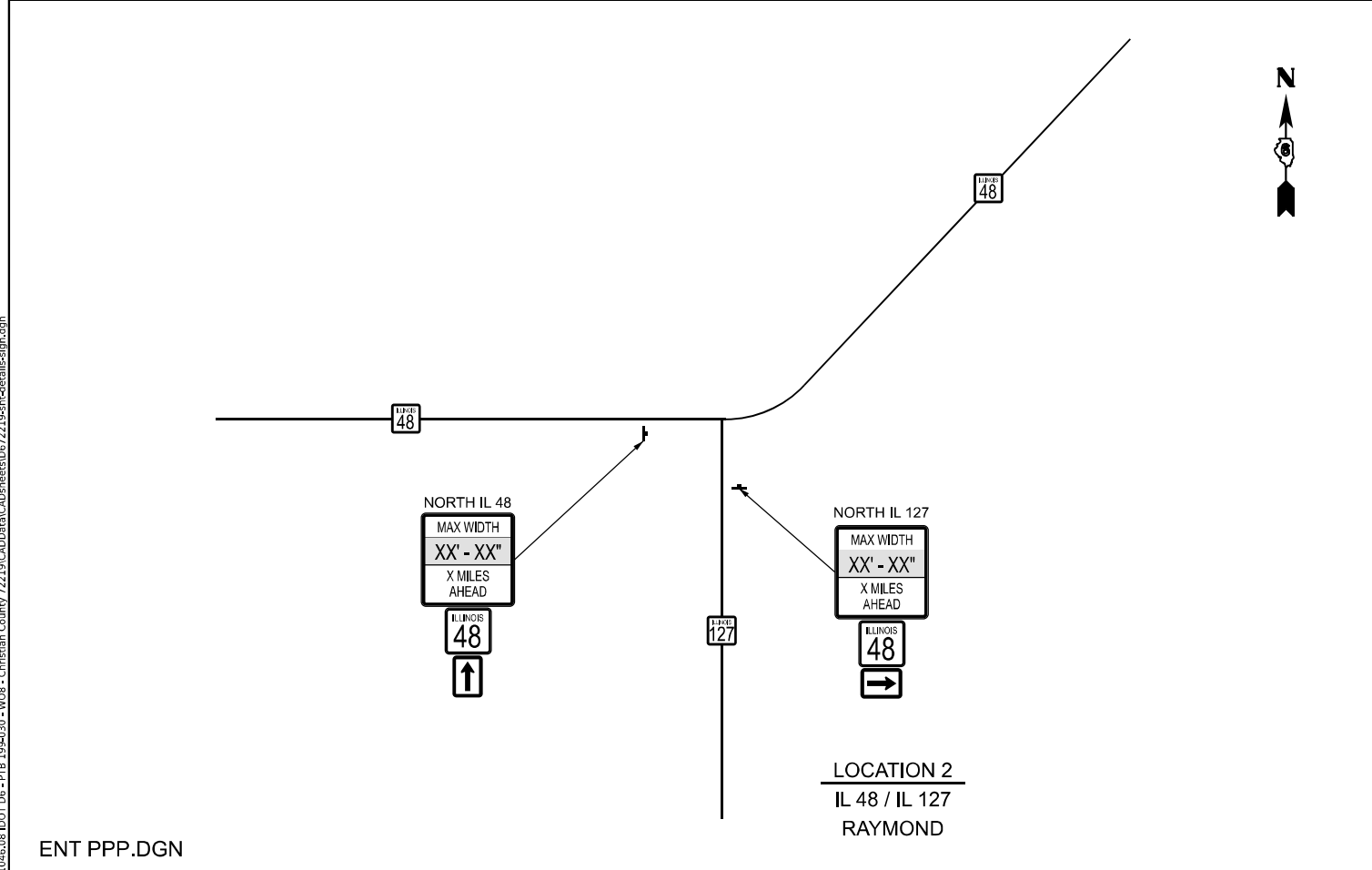
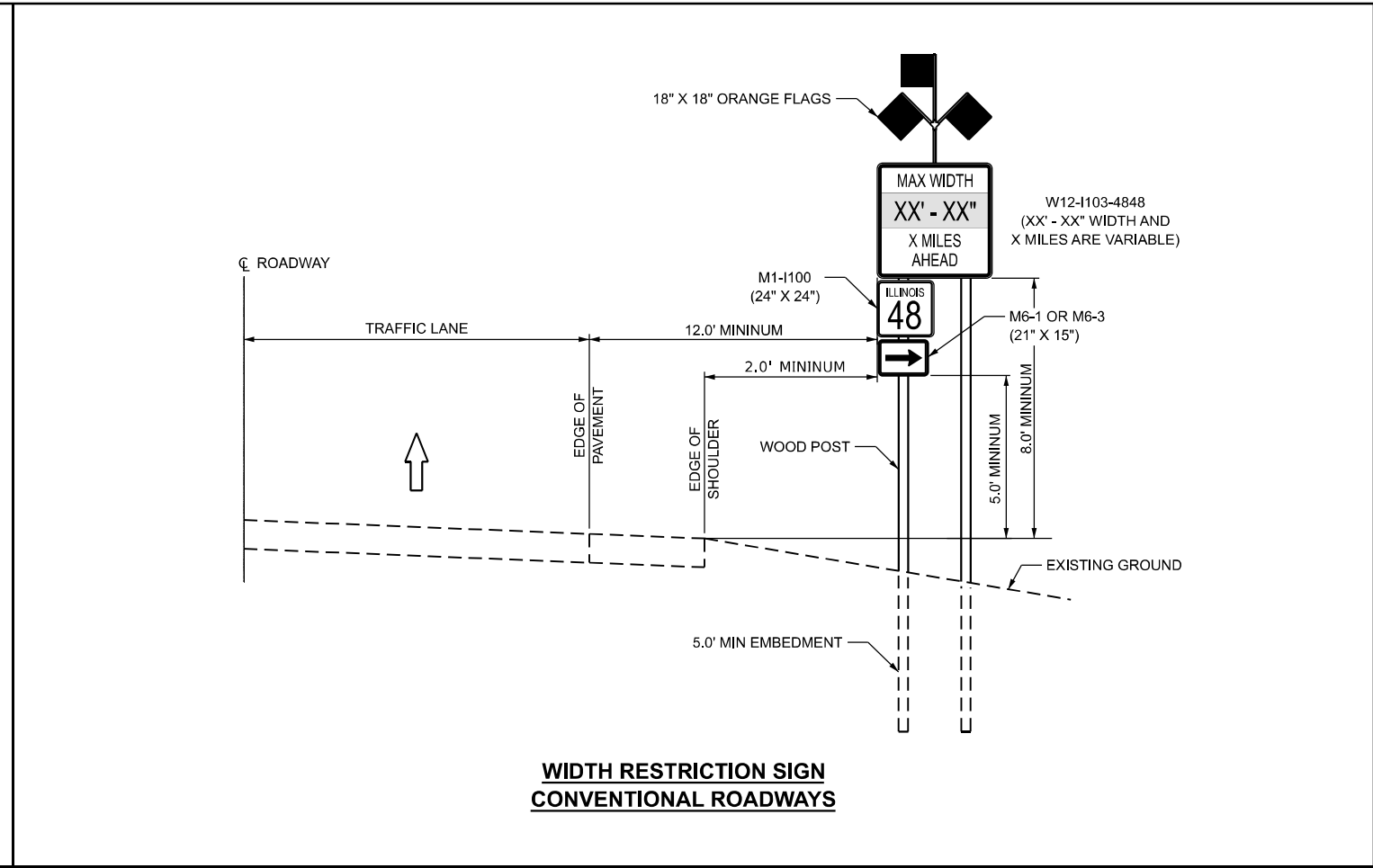
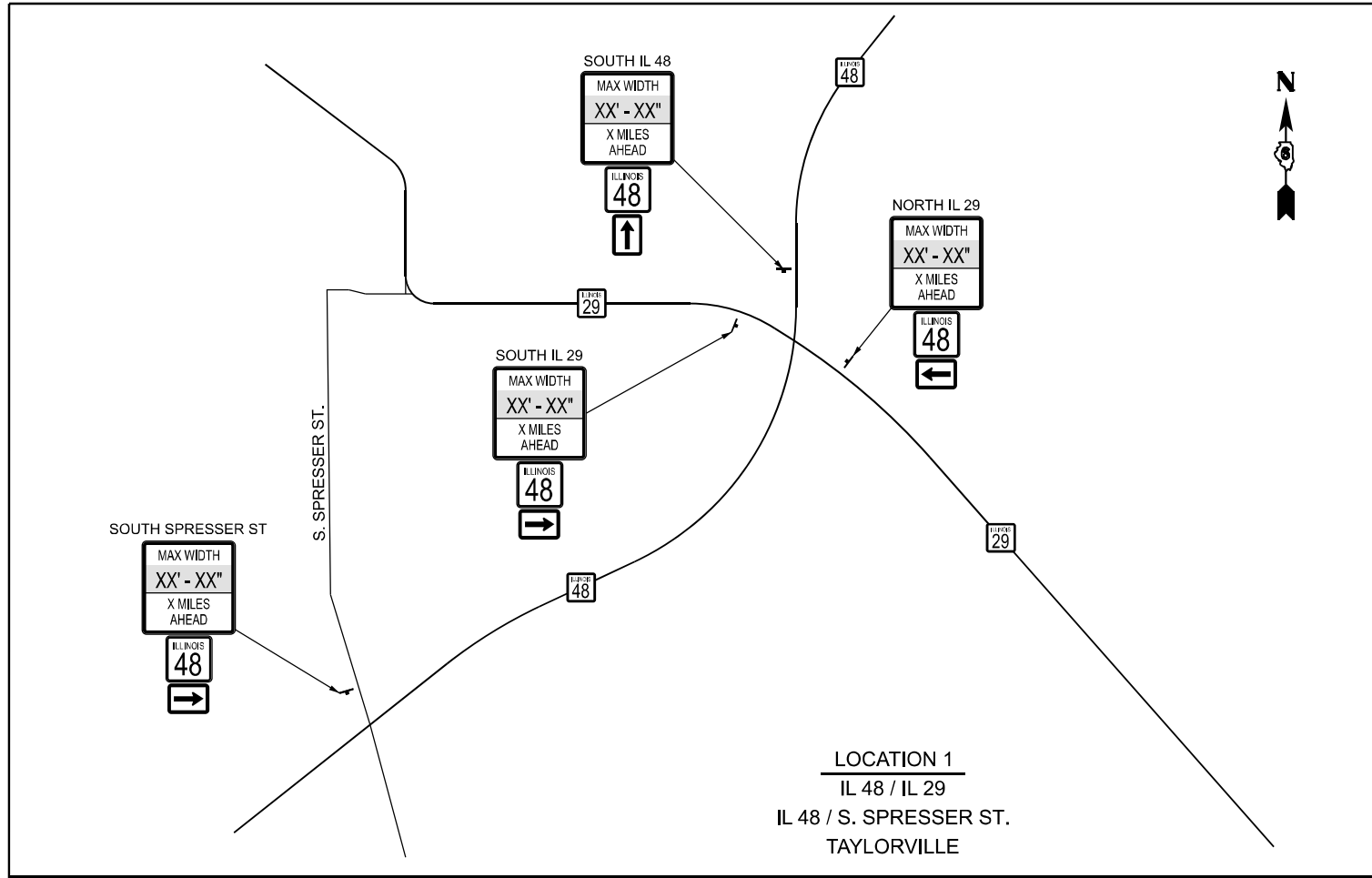
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|---|--|--|

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

STAGING CROSS SECTION

SCALE: SHEET OF SHEETS STA. TO STA.

| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|--|---------------------------|-----------|--------------|-----------|
| 714 | (135X.B-1)BJR.BDR.135RS-8 | CHRISTIAN | 37 | 16 |
| CONTRACT NO. 72219 | | | | |
| ILLINOIS FED. AID PROJECT STP-BR-WJEG(300) | | | | |



ENT PPP.DGN

MODEL: 2D Sheet 1
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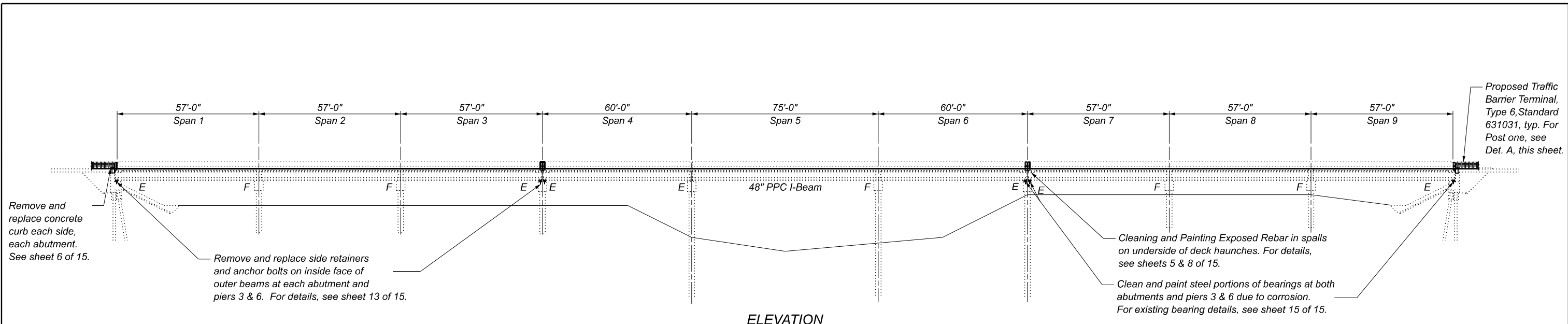
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|-------------------------------|------------|-----------|
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| DRAWN - | REVISED - | |
| PLOT SCALE = 0.16666633 1/16" | CHECKED - | REVISED - |
| PLOT DATE = 1/19/2024 | DATE - | REVISED - |

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

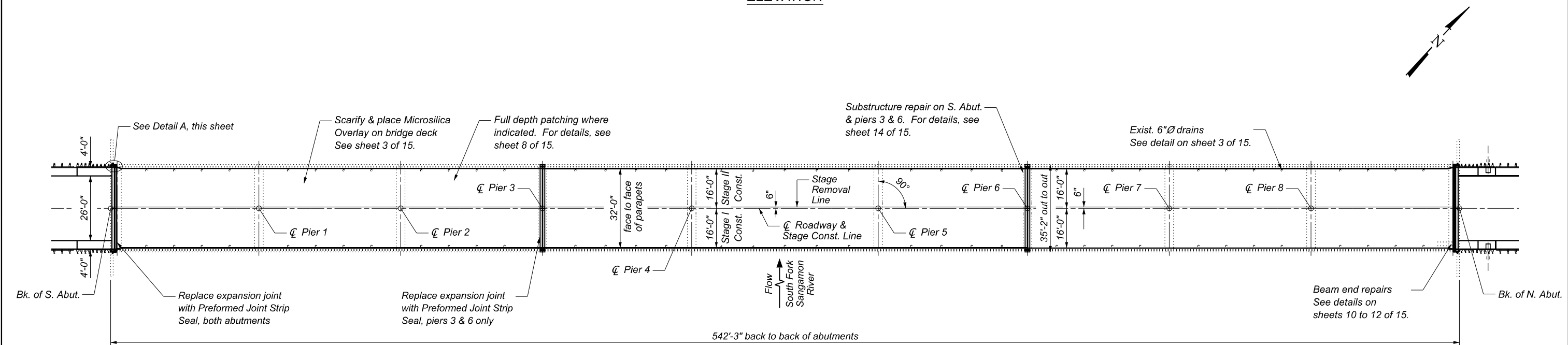
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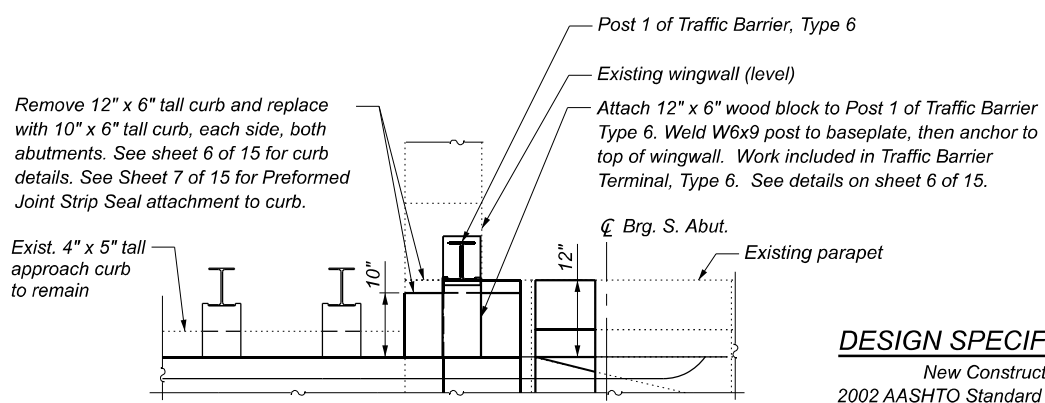
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| CONTRACT NO. 72219 | | | | |
| ILLINOIS FED. AID PROJECT STP-BR-WJEG(300) | | | | |



ELEVATION



PLAN



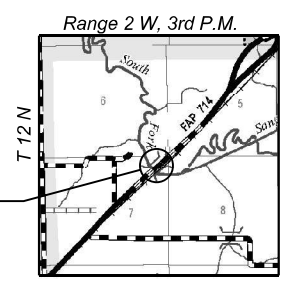
DETAIL A
(West end of S. Abut. shown. Others similar by rotation and opposite hand)

DESIGN STRESSES

FIELD UNITS
 New Construction
 f'c = 4,000 psi (Superstructure)
 f'c = 3,500 psi (Substructure)
 fy = 60,000 psi (Reinforcement)
 fy = 50,000 psi (M270 Grade 50)
 Existing Construction
 f'c = 3,500 psi
 fy = 60,000 psi (Reinforcement)
 Precast Prestressed Units
 f'c = 5,000 psi
 fci = 4,000 psi
 fs' = 270,000 psi (1/2" dia. strand)
 f'si = 189,000 psi (1/2" dia. strand)

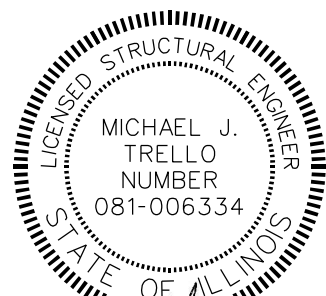
DESIGN SPECIFICATIONS

New Construction:
 2002 AASHTO Standard Specifications for Highway Bridges, 17th Edition
 Existing Construction:
 1983 AASHTO 1984 thru 1988 Interims
LOADING HS-20-44 (EXISTING)
 No future wearing surface



LOCATION SKETCH

BRIDGE REPAIRS
 IL RTE 48 OVER SOUTH FORK
 OF SANGAMON RIVER
 F.A.P. RTE. 714
 SEC. (135X,B-1)BJR, BDR, 135RS-8
 CHRISTIAN COUNTY
 STATION 949+00
 S.N. 011-0032



Date: January 22, 2024
 Expires: November 30, 2024

MODEL: 2D Sheet 1
 FILE NAME: 20240608 IDOT D6 - PTB 199A030 - W08 - Christian County 72219CADData\CA\Drawings\0110032_06172219-001-49E.dgn
 Professional Design Firm No. 184-006516

| | | | | | |
|---|---|--|---|--|---|
| KUHN & TRELLO CONSULTING ENGINEERS A Limited Liability Company 109 N. 7th Street, 3rd Floor Springfield, IL 62701 Phone: 618-692-0044 | USER NAME = myoung DESIGNED - KTCE DRAWN - KTCE CHECKED - MJT DATE - 12-04-2023 | REVISED - REVISED - REVISED - REVISED - | STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION | GENERAL PLAN & ELEVATION STRUCTURE NO. 011-0032 | F.A.P. RTE. 714 SECTION (135X,B-1)BJR,BDR,135RS-8 COUNTY CHRISTIAN TOTAL SHEETS 37 SHEET NO. 18 CONTRACT NO. 72219 |
| | PLOT SCALE = 0.16666633 1/16" PLOT DATE = 1/19/2024 | SHEET 1 OF 15 SHEETS ILLINOIS FED. AID PROJECT STP-BR-WJEG(300) | | | |

GENERAL NOTES

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.

Reinforcement bars designated (E) shall be epoxy coated.

Areas of deck slab repair and concrete curb removal shown are estimated. The Engineer shall show actual locations of deck repairs on As-Built plans.

The Contractor shall use extreme care during concrete removal so as not to damage the PPC I-Beam.

The existing concrete surface shall be cleaned and prepared in accordance with the Special Provisions.

See Special Provisions for "FRP Strengthening for PPC I-Beam Repairs".

See Special Provisions for "Precast Prestressed Concrete I-Beam Repair".

Acrylic coating shall be placed over Fiber Wrap repairs. Two coats shall be applied.

Cleaning and painting of the existing structural steel shall be as specified in the special provision for "Cleaning and Painting Existing Steel Structures". All bearings shall be cleaned per Near White Blast Cleaning (SSPC-SP10). (NOTE: This is only the bearings for PPCI Beams.) The designated areas cleaned per Near White Blast Cleaning (SSPC-SP10) shall be painted according to the requirements of Organic Zinc-Rich Epoxy/Urethane. The color of the final finish coat for all steel surfaces shall be Gray, Munsell No. 5B 7/1.

Containment of cleaning residue is required to control nuisance dust. See special provisions. SSPC QP1 Certification is required for this Contract.

SHEET INDEX

- 1 General Plan & Elevation
- 2 General Data
- 3 Staging Details & Cross Sections
- 4 Joint Removal & Replacement Details at Abutments
- 5 Joint Removal & Replacement Details at Piers 3 & 6
- 6 Joint & Curb Removal & Replacement Details
- 7 Preformed Joint Strip Seal
- 8 Deck Slab Repair Details
- 9 Bar Splicers
- 10 - 12 Beam Repair Details
- 13 Side Retainer Details
- 14 Substructure Repair Details
- 15 Existing Bearing Details - For Information Only

SCOPE OF WORK

- 1. Perform bridge scarification.
- 2. Perform deck patching, removal of deck ends at abutments & piers 3 & 6, parapets, hatch blocks and curbs at abutments.
- 3. Perform structural repair of concrete at south abut., piers 3 & 6 and clean and paint exposed rebar at Pier 6, span 7 deck haunch.
- 4. Repair concrete beam ends.
- 5. Replace side retainers & anchor bolts on inside of exterior beams at abutments & piers 3 & 6.
- 6. Clean and paint steel portions of bearings at abutments and piers 3 & 6.
- 7. Cast deck ends, parapet ends and hatch blocks.
- 8. Cast curb over abutments at wingwalls.
- 9. Place preformed joint strip seal at joints at abutments and piers 3 & 6.
- 10. Adjust drains.
- 11. Place bridge deck microsilica concrete overlay 2½".
- 12. Perform bridge deck grooving.
- 13. Apply Protective Coat to bridge deck.

TOTAL BILL OF MATERIAL

| ITEM | UNIT | QUANTITY |
|--|---------|----------|
| Concrete Removal | Cu. Yd. | 8.8 |
| Concrete Superstructure | Cu. Yd. | 10.9 |
| Bridge Deck Grooving | Sq. Yd. | 1795 |
| Protective Coat | Sq. Yd. | 1915 |
| Furnishing and Erecting Structural Steel | Pound | 310 |
| Reinforcement Bars, Epoxy Coated | Pound | 1240 |
| Bar Splicers | Each | 24 |
| Preformed Joint Strip Seal | Foot | 138 |
| Anchor Bolts, 1" | Each | 12 |
| Acrylic Coating | Sq. Yd. | 40.9 |
| Fiber Wrap | Sq. Ft. | 369 |
| Containment and Disposal of Non-Lead Paint Cleaning Residues | L. Sum | 1 |
| Cleaning and Painting Exposed Rebar | Sq. Ft. | 23 |
| Cleaning and Painting Steel Bridge No. 1 | L. Sum | 1 |
| Bridge Deck Scarification, ¾" | Sq. Yd. | 1915 |
| Bridge Deck Microsilica Concrete Overlay, 2½" | Sq. Yd. | 1915 |
| Structural Repair of Concrete (Depth Equal to or less than 5 inches) | Sq. Ft. | 161 |
| Deck Slab Repair (Full Depth, Type II) | Sq. Yd. | 12 |
| Precast Prestressed Concrete I-Beam Repair | Sq. Ft. | 92 |

MODEL: 2D Sheet H
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KT KUHN & TRELLO
CONSULTING ENGINEERS
A Limited Liability Company
109 N. 7th Street, 3rd Floor
Springfield, IL 62701
Phone: 217-619-0044
Professional Design Firm No. 184-006516

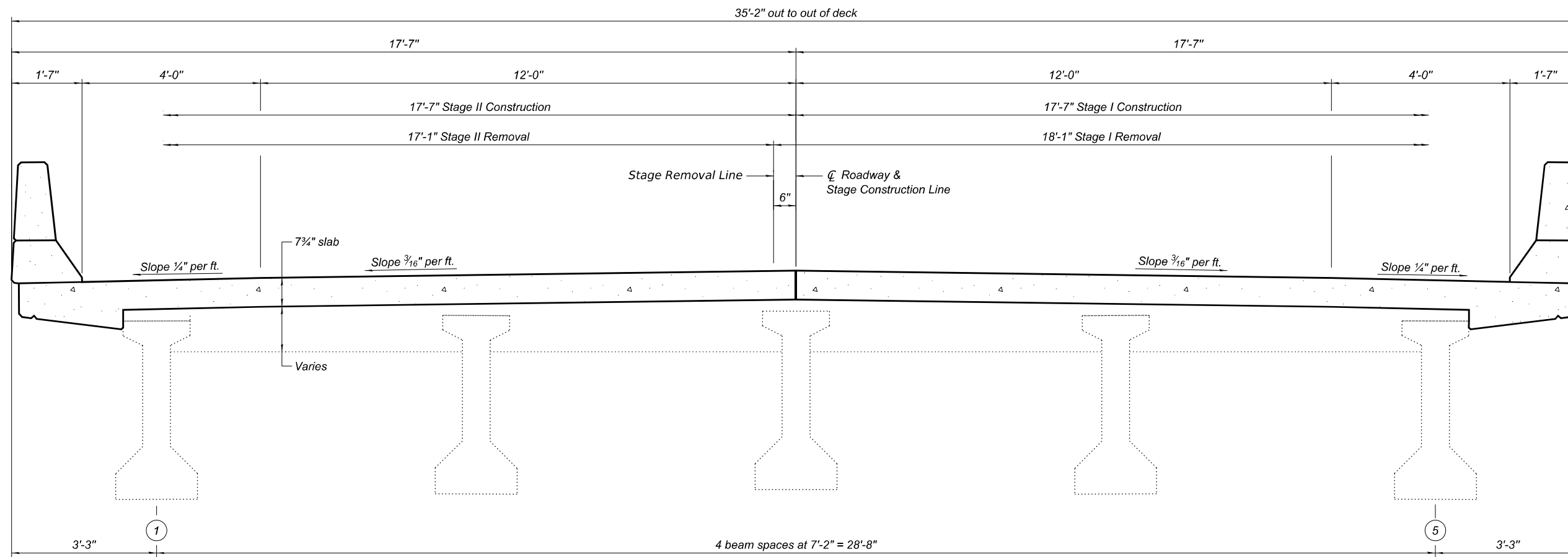
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| | DRAWN - KTCE | REVISED - |
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| PLOT DATE = 1/22/2024 | DATE - 12-04-2023 | REVISED - |

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

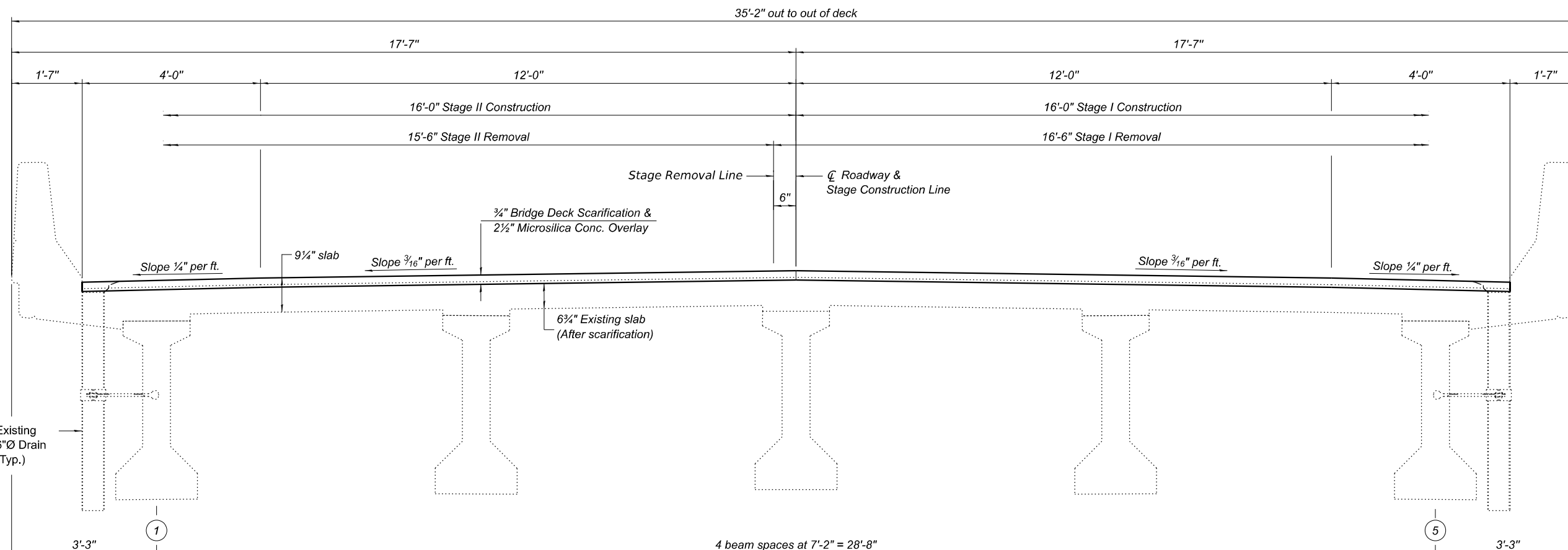
**GENERAL DATA
STRUCTURE NO. 011-0032**

SHEET 2 OF 15 SHEETS

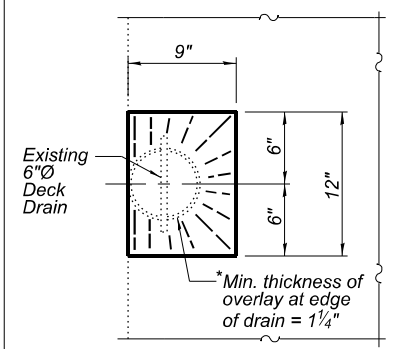
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| 714 | (135X,B-1)BJR,BDR,135R5-8 | CHRISTIAN | 37 | 19 |
| CONTRACT NO. 72219 | | | | |
| ILLINOIS FED. AID PROJECT STP-BR-WJEG(300) | | | | |



STAGING CROSS SECTION AT JOINT REPLACEMENT LOCATIONS



STAGING CROSS SECTION AT MID-SPANS



OVERLAY TREATMENT AT DRAINS

MODEL: Sheet
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 Professional Design Firm No. 184-006516



| | |
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| PLOT DATE | = 1/22/2024 |

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| CHECKED | - MJT |
| DATE | - 12-04-2023 |

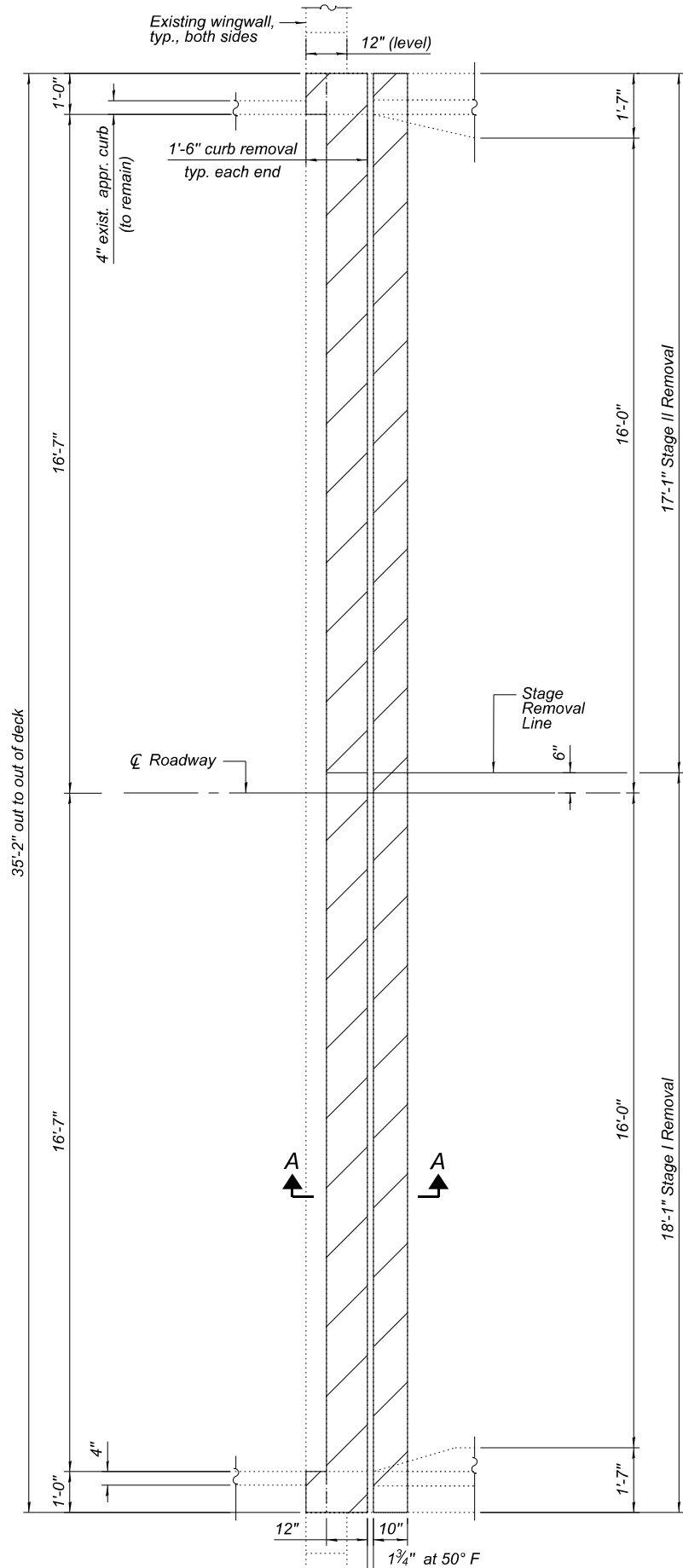
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STAGING DETAILS AND CROSS SECTIONS
STRUCTURE NO. 011-0032

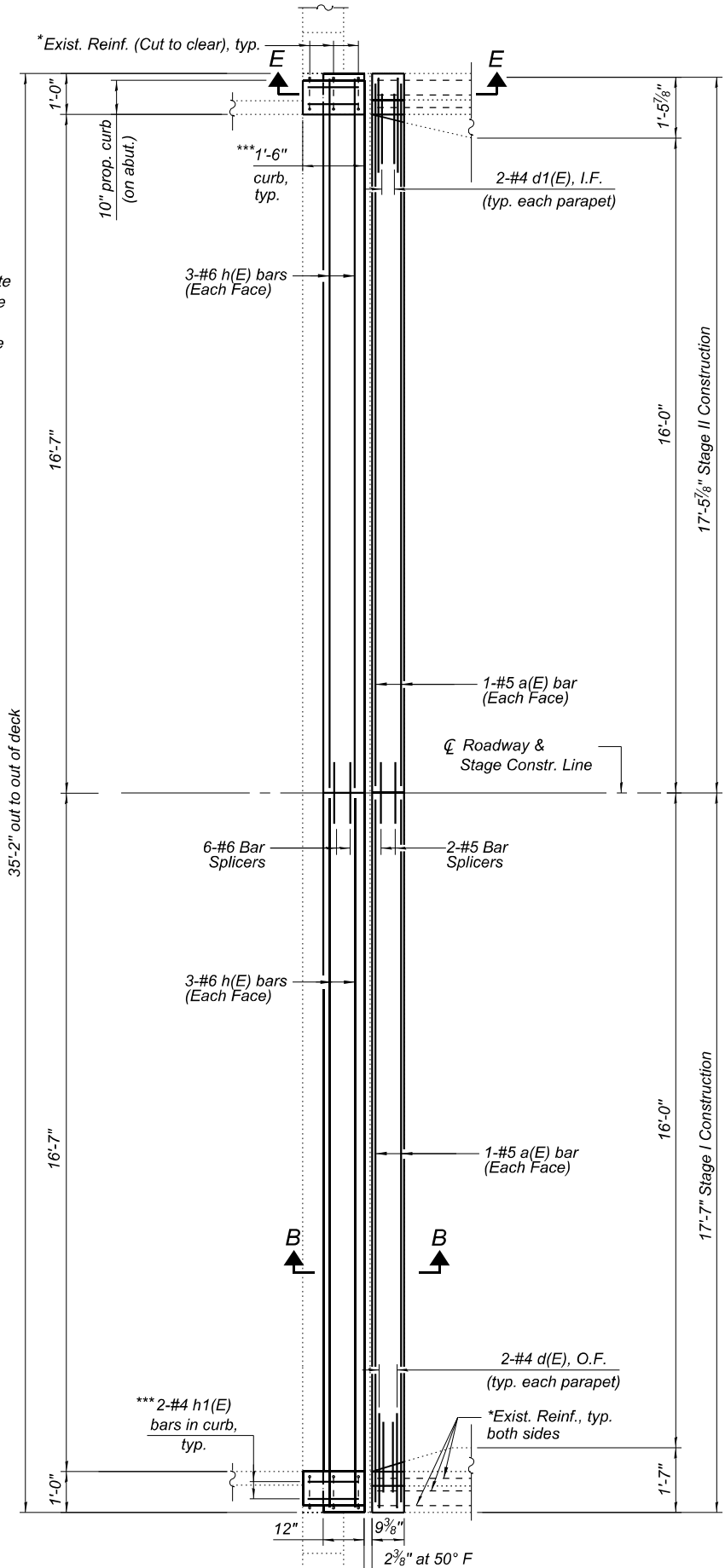
SHEET 3 OF 15 SHEETS

| | | | | |
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| CONTRACT NO. 72219 | | | | |
| ILLINOIS FED. AID PROJECT STP-BR-WJEG(300) | | | | |

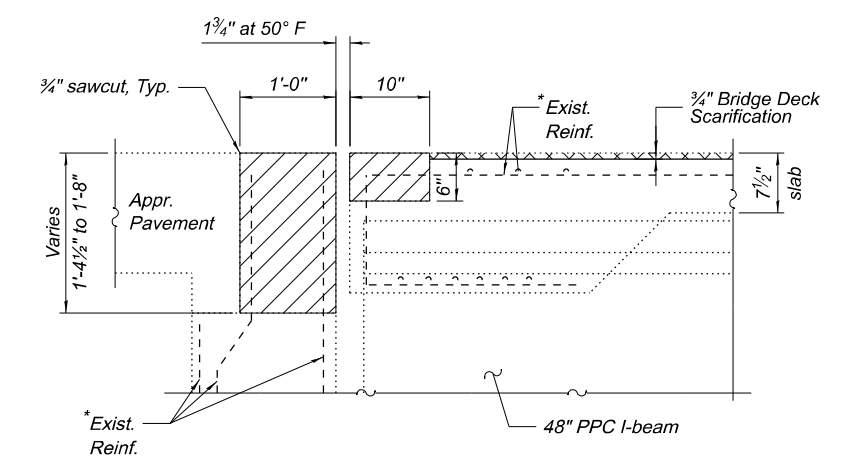


CONCRETE REMOVAL AT SOUTH ABUTMENT

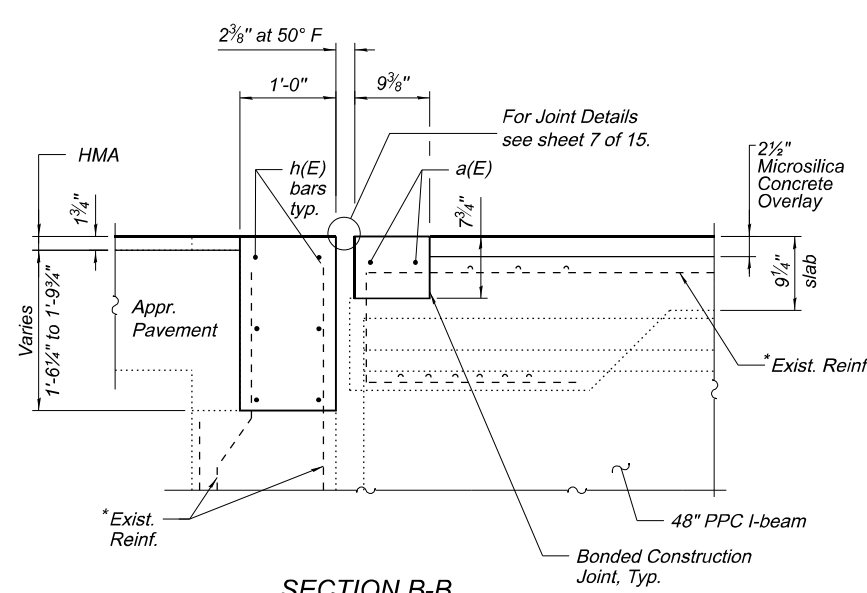
Notes:
 Cross Hatched areas indicate Concrete Removal. Cost of replacement of concrete included with Concrete Superstructure.
 For Sections E-E, see sheet 6 of 15.



PROPOSED CONCRETE AT SOUTH ABUTMENT



SECTION A-A

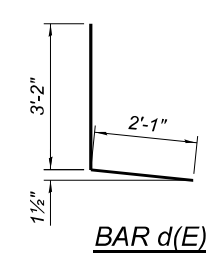


SECTION B-B

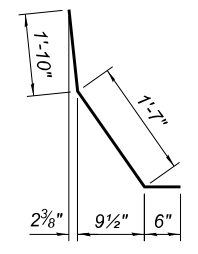
* Existing reinforcement bars extending into the removal area shall be cleaned, straightened and incorporated into the new construction. Any reinforcement bars that are damaged during concrete removal shall be replaced with an approved bar splicer or anchorage system. Cost included with concrete removal.
 ** North Abutment similar by rotation
 *** Cast curb after hatchblock

MIN. LAP

#5 bars = 3'-6"
 #6 bars = 4'-0"



BAR d(E)



BAR d1(E)

LEGEND

I.F. Inside Face
 O.F. Outside Face

BILL OF MATERIAL
 TWO ABUTMENTS & PIERS 3 & 6

| Bar | No. | Size | Length | Shape |
|----------------------------------|-----|------|---------|-------|
| a(E) | 24 | #5 | 17'-2" | — |
| d(E) | 24 | #4 | 5'-3" | L |
| d1(E) | 24 | #5 | 3'-11" | ∩ |
| h(E) | 24 | #6 | 17'-4" | — |
| h1(E) | 8 | #4 | 1'-3" | — |
| Concrete Removal | | | Cu. Yd. | 8.8 |
| Concrete Superstructure | | | Cu. Yd. | 10.9 |
| Reinforcement Bars, Epoxy Coated | | | Pound | 1240 |
| Bar Splicers | | | Each | 24 |

MODEL: Sheet
 FILE NAME: 221046.08 IDOT D6 - PTB 198-030 - W08 - Christian County 72219CADData\CADSheets\0110032_0612219-004-Sub.dgn
 Professional Design Firm No. 184-006516

KUHN & TRELLO
 CONSULTING ENGINEERS
 A Limited Liability Company
 109 N. 7th Street, 3rd Floor
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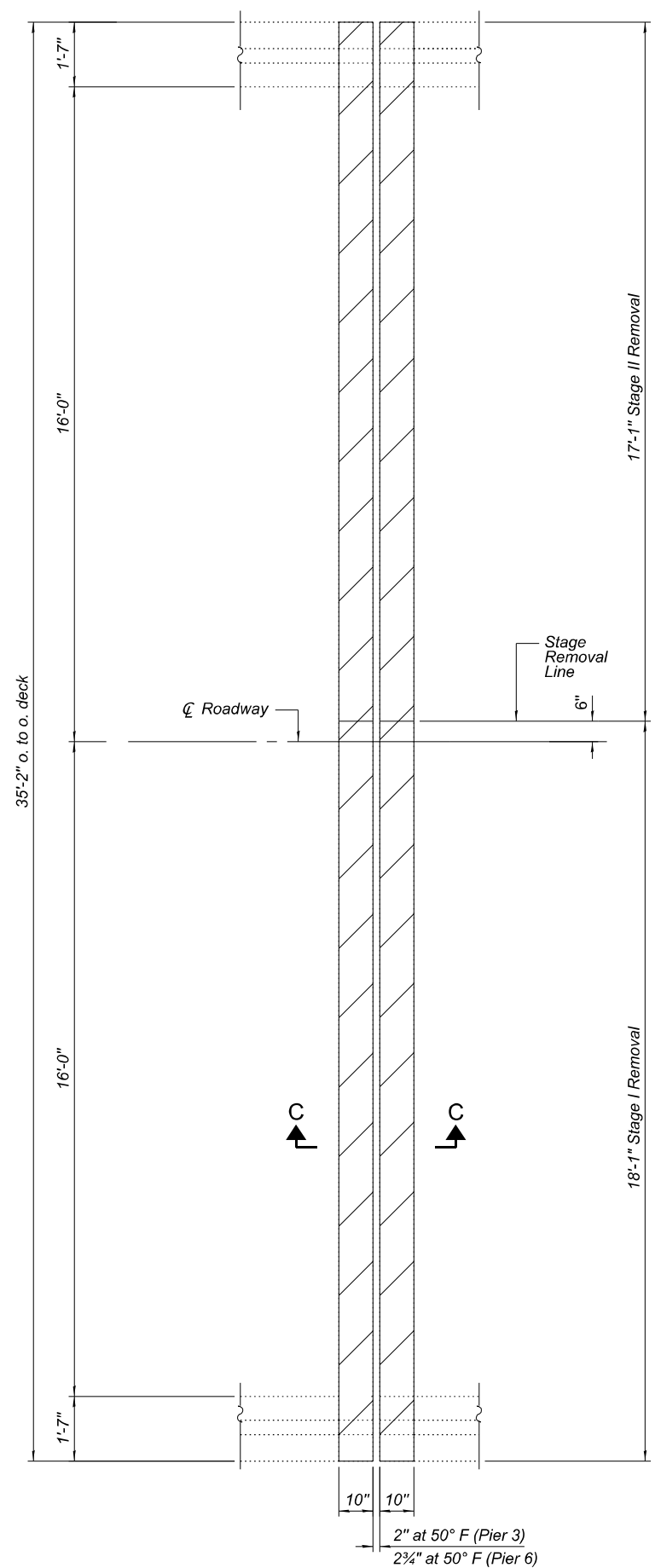
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| PLOT SCALE = 0.167"/in. | DRAWN - KTCE | REVISED - |
| PLOT DATE = 1/22/2024 | CHECKED - MJT | REVISED - |
| | DATE - 12-04-2023 | REVISED - |

| | | | | |
|------------------------------|--|-----------|--------------|-----------|
| STATE OF ILLINOIS | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| DEPARTMENT OF TRANSPORTATION | 714 (135X,8-1)BJR,BDR,135R5-8 | CHRISTIAN | 37 | 21 |
| | CONTRACT NO. 72219 | | | |
| | ILLINOIS FED. AID PROJECT STP-BR-WJEG(300) | | | |

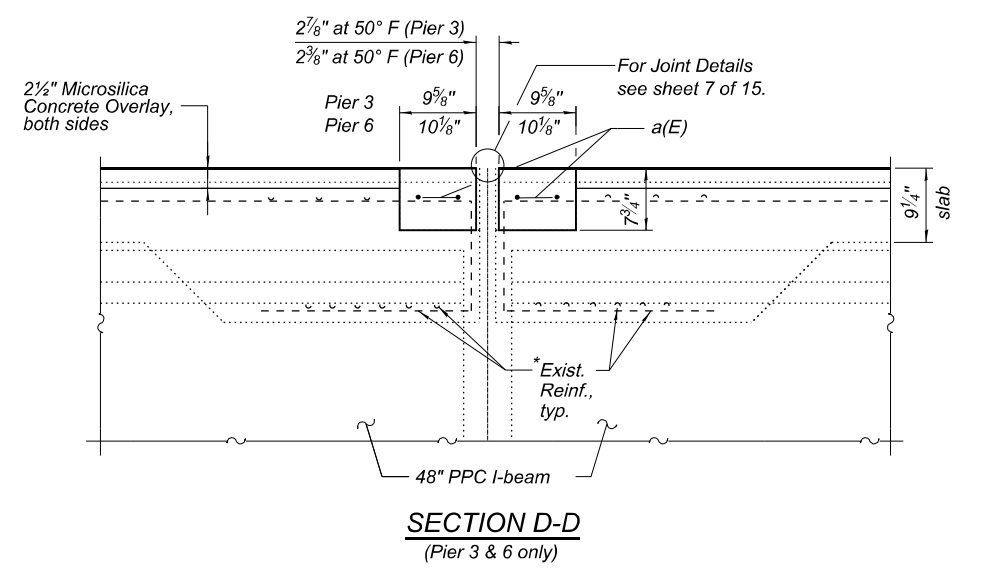
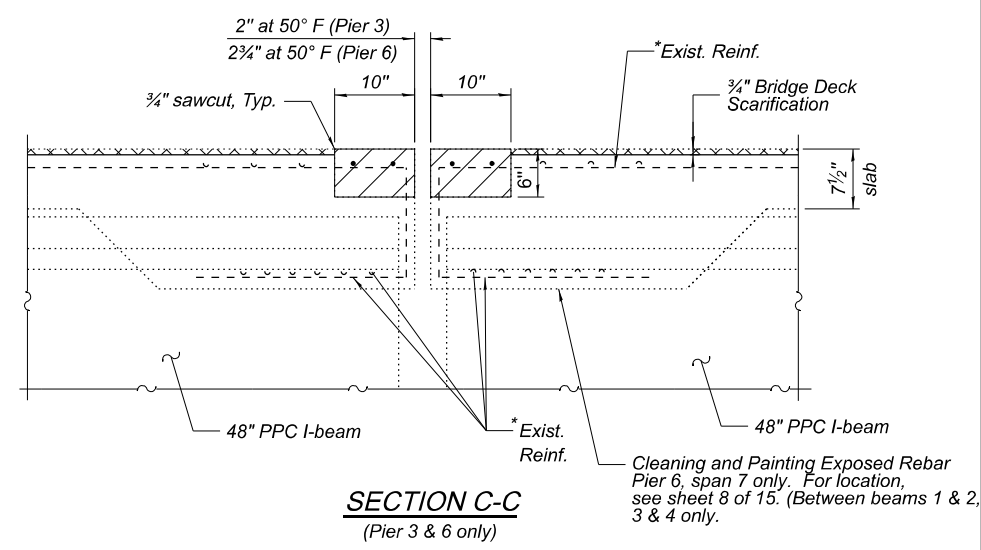
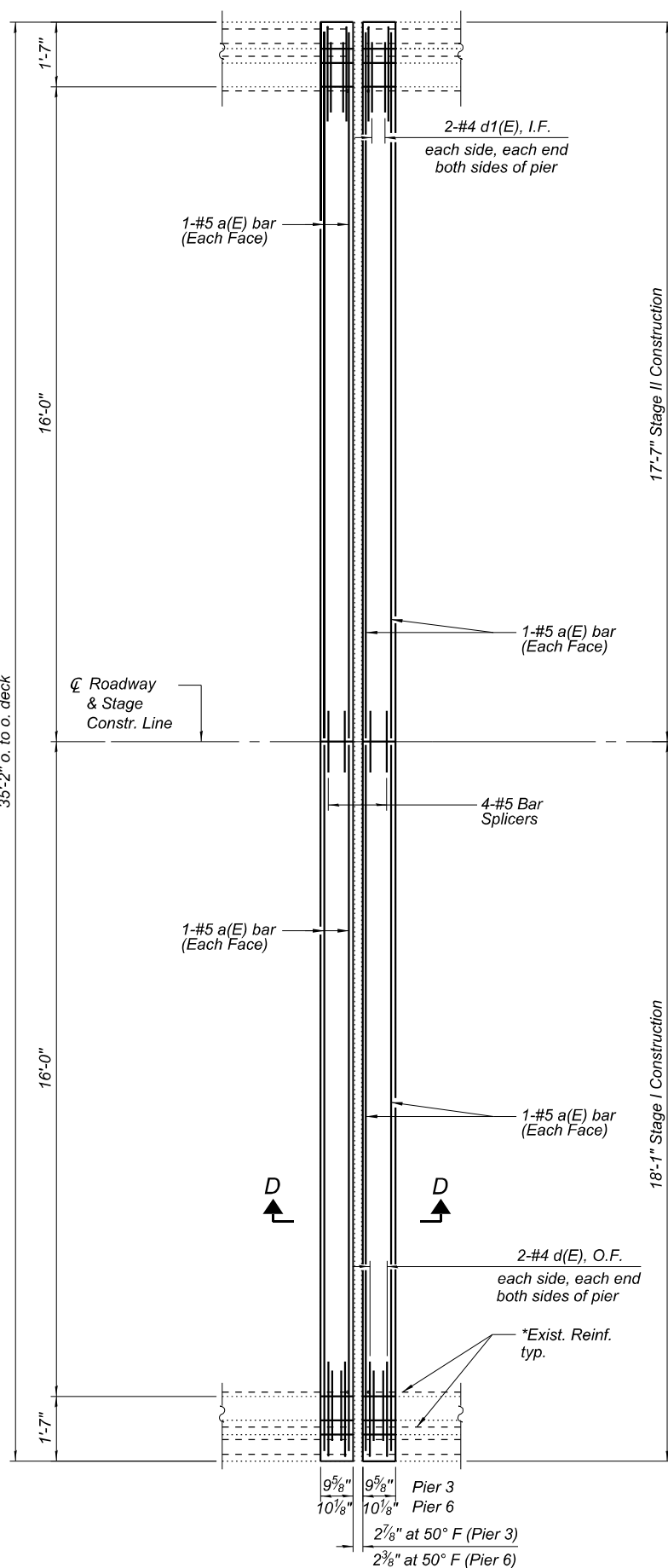
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| STATE OF ILLINOIS | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| DEPARTMENT OF TRANSPORTATION | 714 (135X,8-1)BJR,BDR,135R5-8 | CHRISTIAN | 37 | 21 |
| | CONTRACT NO. 72219 | | | |
| | ILLINOIS FED. AID PROJECT STP-BR-WJEG(300) | | | |

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

JOINT REMOVAL AND REPLACEMENT DETAILS AT ABUTMENTS
STRUCTURE NO. 011-0032



Notes:
 Cross Hatched areas indicate Concrete Removal. Cost of replacement of concrete included with Concrete Superstructure.



The existing expansion joint system shall be removed completely, as well as any foreign material that has accumulated or been placed in the joint openings. The cost for this work is included in Concrete Removal and no additional compensation will be allowed.

See sheet 4 of 15 for Bill of Material and bar shapes.

For locations of pier joint replacements, see sheet 1 of 15.

See sheet 7 of 15 for Preformed Joint Strip Seal details.

* 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.

LEGEND
 I.F. Inside Face
 O.F. Outside Face

CONCRETE REMOVAL AT PIERS 3 & 6

PROPOSED CONCRETE AT PIERS 3 & 6

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**JOINT REMOVAL AND REPLACEMENT DETAILS AT PIERS 3 & 6
 STRUCTURE NO. 011-0032**

SHEET 5 OF 15 SHEETS

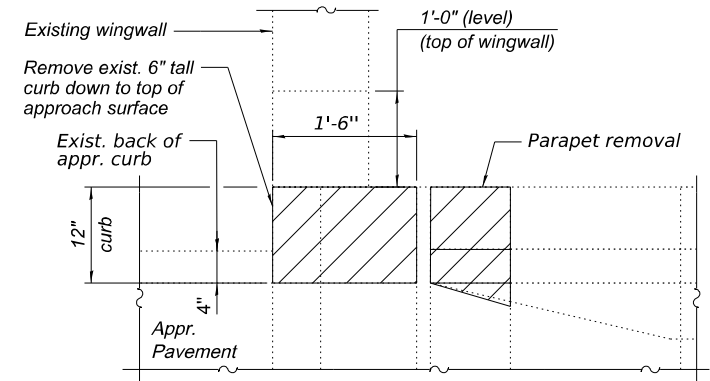
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KUHN & TRELLO
 CONSULTING ENGINEERS
 A Limited Liability Company
 109 N. 7th Street, 3rd Floor
 Springfield, IL 62701
 Phone: 217-619-0044

USER NAME = myoung
 DESIGNED - KTCE
 DRAWN - KTCE
 CHECKED - MJT
 DATE - 12-04-2023

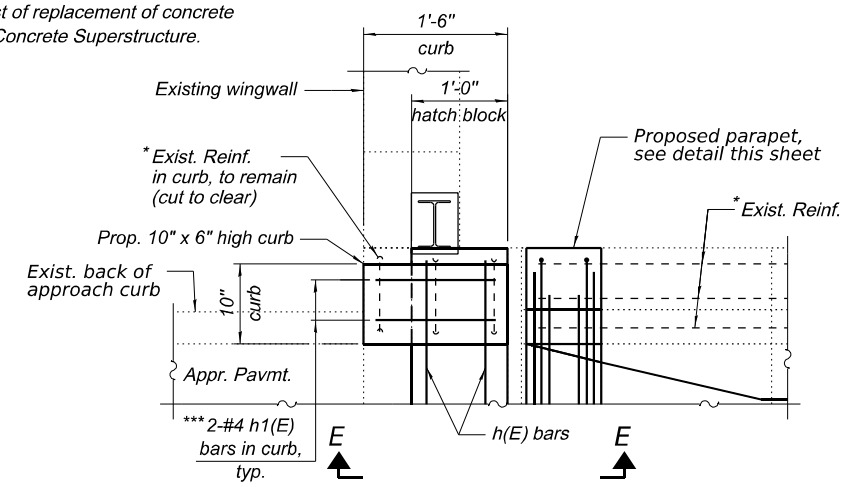
REVISIONS
 REVISED -
 REVISED -
 REVISED -
 REVISED -

| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|--|---------------------------|-----------|--------------|-----------|
| 714 | (135X,B-1)BJR,BDR,135R5-8 | CHRISTIAN | 37 | 22 |
| CONTRACT NO. 72219 | | | | |
| ILLINOIS FED. AID PROJECT STP-BR-WJEG(300) | | | | |



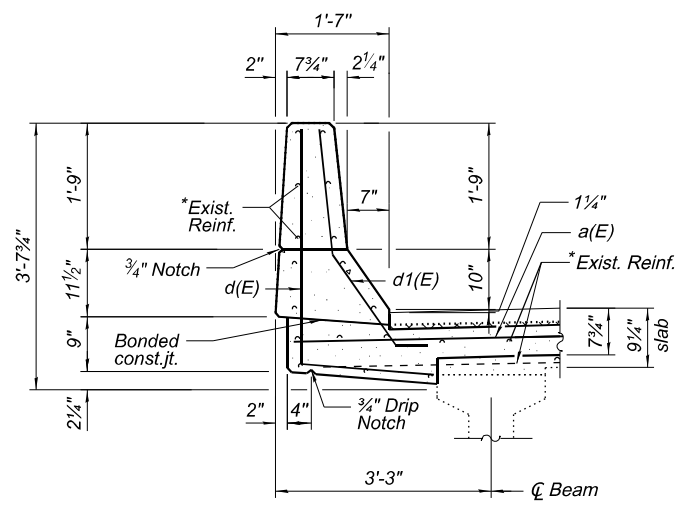
CURB REMOVAL PLAN - W. CORNER S. ABUT.
(E. corner S. Abut.- opposite hand, N. Abut. similar by rotation)

Notes:
Cross Hatched areas indicate Concrete Removal. Cost of replacement of concrete included with Concrete Superstructure.

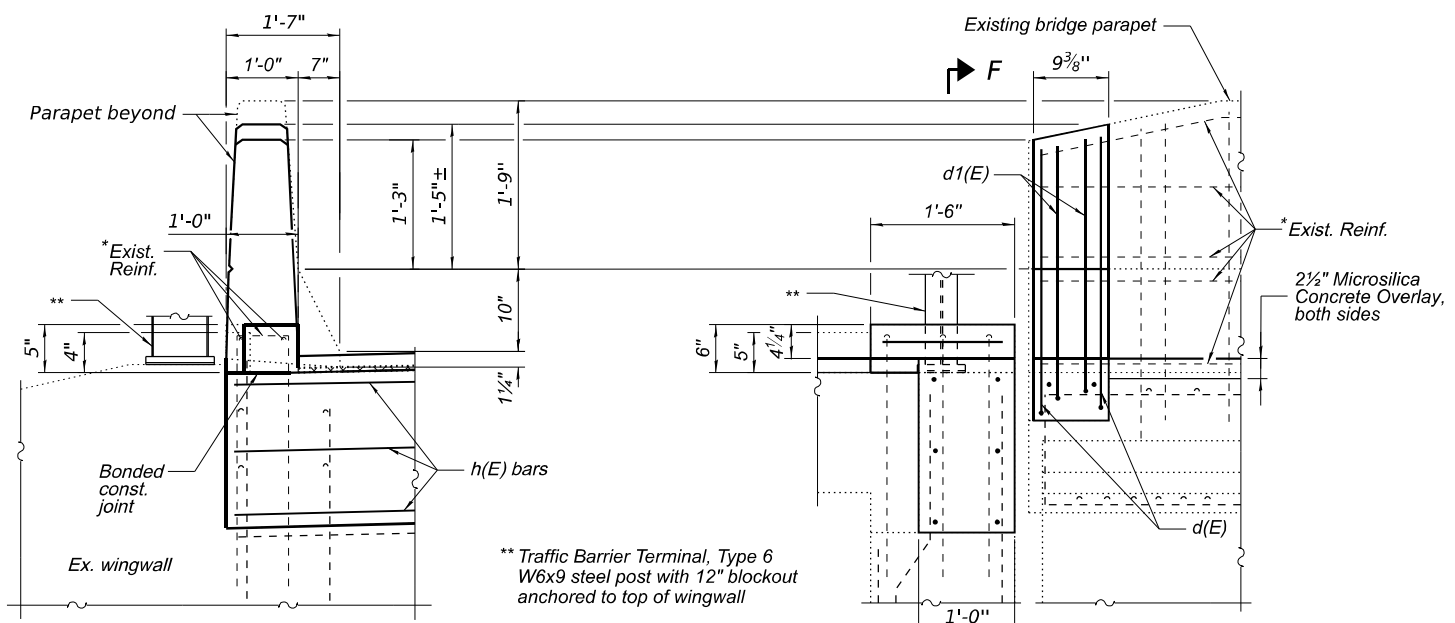


PROPOSED CURB PLAN- W. CORNER S. ABUT.
(E. corner S. Abut.- opposite hand, N. Abut. similar by rotation)

*Existing reinforcement 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 shall be included with Concrete Removal.



TYPICAL SECTION THRU BRIDGE PARAPET



SECTION F-F

SECTION E-E

MODEL: Sheet
FILE NAME: J:\210465.08\DOT.D6 - PTB-19A-C30 - W08 - Christian County 72219\CADD\Drawings\0110032_0612219-0065-0065.dgn



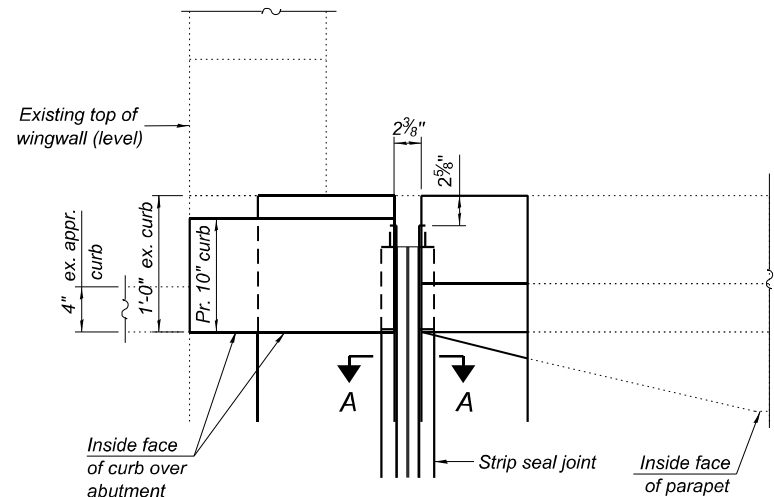
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|-------------------------|-------------------|-----------|
| USER NAME = myoung | DESIGNED - KTCE | REVISED - |
| PLOT SCALE = 0.1671/in. | DRAWN - KTCE | REVISED - |
| PLOT DATE = 1/22/2024 | CHECKED - MJT | REVISED - |
| | DATE - 12-04-2023 | REVISED - |

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**JOINT REMOVAL AND REPLACEMENT DETAILS
STRUCTURE NO. 011-0032**

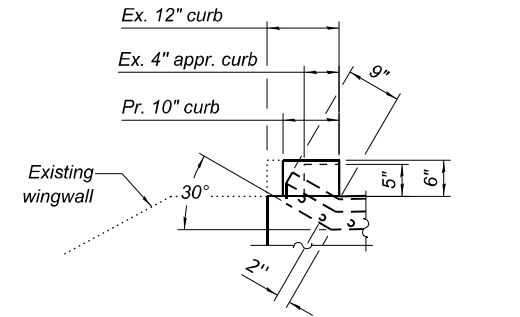
SHEET 6 OF 15 SHEETS

| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|--|---------------------------|-----------|--------------|-----------|
| 714 | (135X,B-1)BJR,BDR,135R5-8 | CHRISTIAN | 37 | 22 |
| CONTRACT NO. 72219 | | | | |
| ILLINOIS FED. AID PROJECT STP-BR-WJEG(300) | | | | |

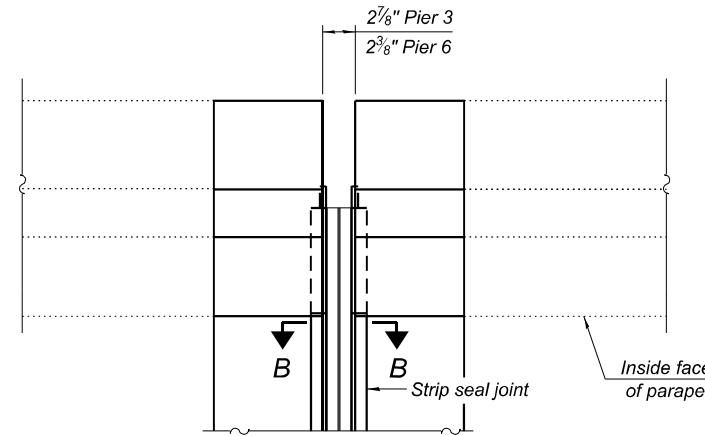


PLAN AT ABUTMENT

(West end of S. Abut. shown.
N. Abut. similar by opposite hand)

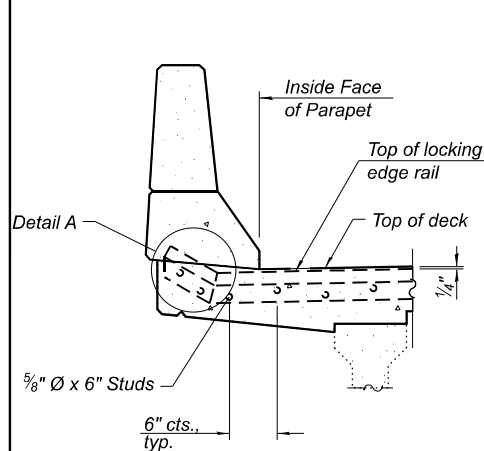


SECTION AT WINGWALL

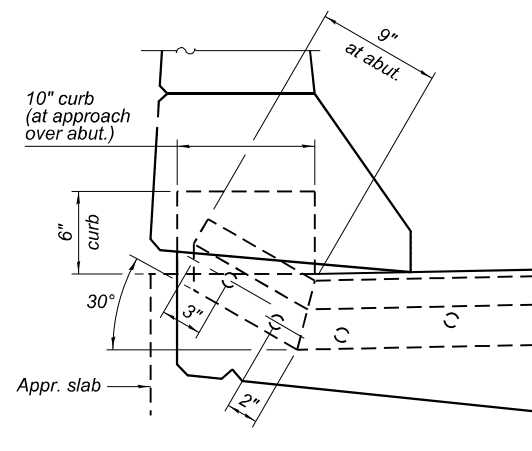


PLAN AT PIER

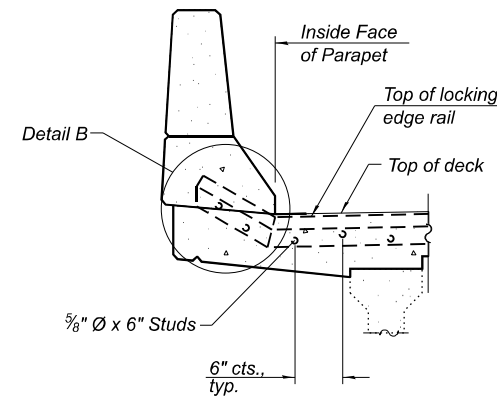
(Piers 3 & 6 only)



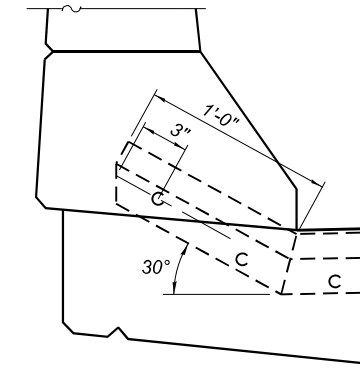
SECTION AT PARAPET (ABUT. END)



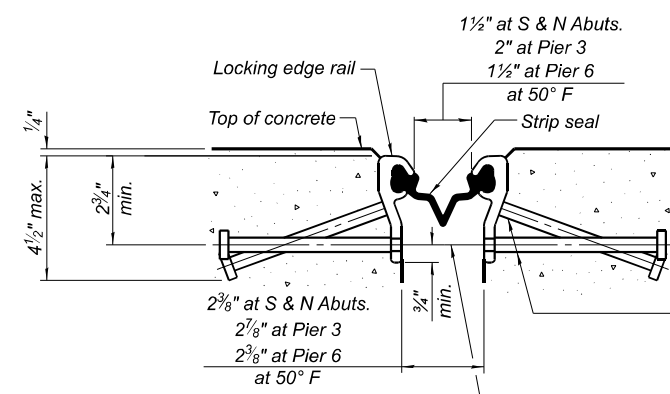
DETAIL A



SECTION THRU PARAPET (AT PIER)



DETAIL B



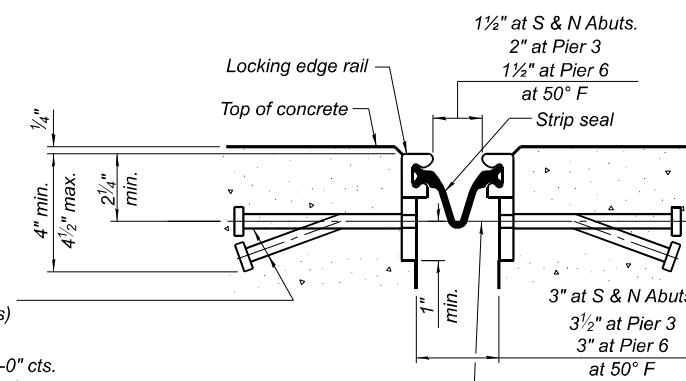
SHOWING ROLLED RAIL JOINT

* 5/8" ϕ x 6" studs @ 6" cts. (alternate angled/bent studs with horizontal studs)

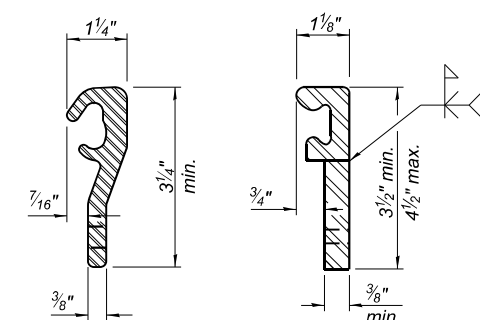
3/8" ϕ threaded rods in 7/16" ϕ holes at $\pm 4'-0"$ cts. for holding the proper joint opening based on the temperature during the deck pour. Place to miss studs. All rods shall be burned, or sawed off flush with the plates after concrete is set.

SECTION A-A

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

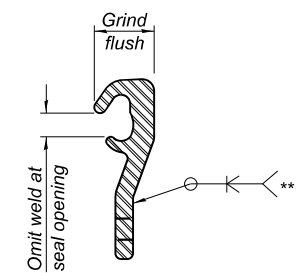


SHOWING WELDED RAIL JOINT



LOCKING EDGE RAILS

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



LOCKING EDGE RAIL SPLICE

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

BILL OF MATERIAL

| Item | Unit | Total |
|----------------------------|------|-------|
| Preformed Joint Strip Seal | Foot | 138 |

MODEL: 2D Sheet H
FILE NAME: 20210608.BDR DOT D6 - FTB 19A-C30 - W08 - Christian County 72219-CADData\CADDrawings\0110032_0612219-001-1855.dgn



USER NAME = myoung
PLOT SCALE = 0.167"/in.
PLOT DATE = 1/22/2024

DESIGNED - KTCE
DRAWN - KTCE
CHECKED - MJT
DATE - 12-04-2023

REVISED -
REVISED -
REVISED -
REVISED -

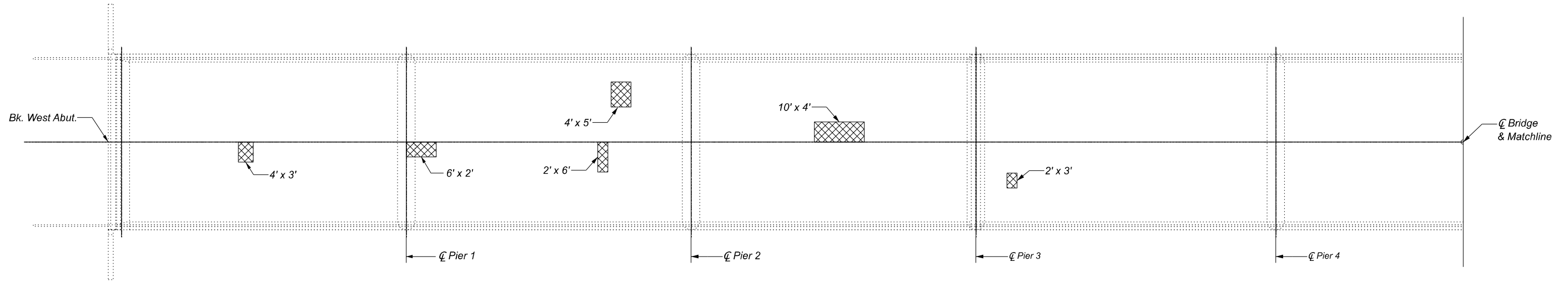
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**PREFORMED JOINT STRIP SEAL
STRUCTURE NO. 011-0032**

SHEET 7 OF 15 SHEETS

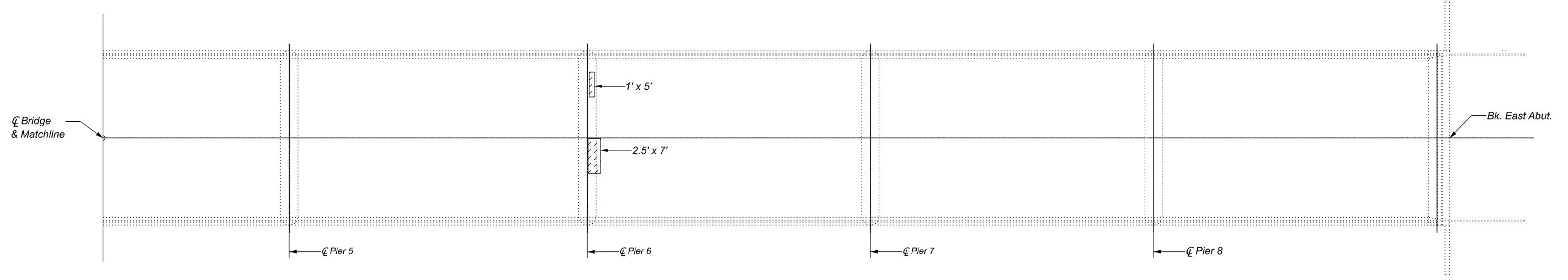
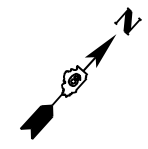
| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|--------------------|---------------------------|-----------|--------------|-----------|
| 714 | (135X,B-1)BJR,BDR,135R5-8 | CHRISTIAN | 37 | 24 |
| CONTRACT NO. 72219 | | | | |

ILLINOIS FED. AID PROJECT STP-BR-WJEG(300)



DECK PATCHING REPAIR PLAN

- Deck Slab Repair (Full Depth, Type II)
- Cleaning and Painting Exposed Rebar (underside of deck haunches)



BILL OF MATERIAL

| Item | Unit | Total |
|--|---------|-------|
| Deck Slab Repair (Full Depth, Type II) | Sq. Yd. | 12 |
| Cleaning and Painting Exposed Rebar | Sq. Ft. | 23 |

MODEL: 2D Sheet 4
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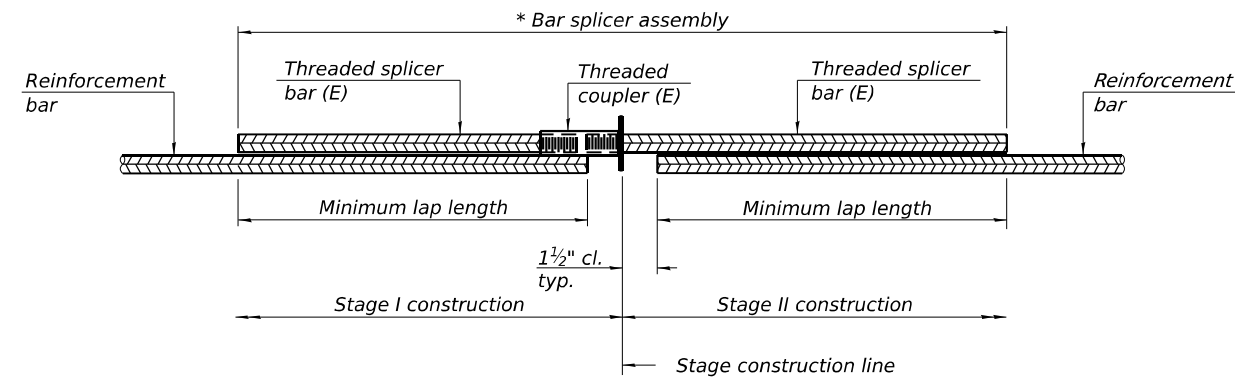
KUHN & TRELLO
 CONSULTING ENGINEERS
 A Limited Liability Company
 109 N. 7th Street, 3rd Floor
 Springfield, IL 62701
 Phone: 217-619-0044
 Professional Design Firm No. 184-006516

| | | |
|---------------------------------|-------------------|-----------|
| USER NAME = myoung | DESIGNED - KTCE | REVISED - |
| PLOT SCALE = 0.16666633 1/1 in. | DRAWN - KTCE | REVISED - |
| PLOT DATE = 1/22/2024 | CHECKED - MJT | REVISED - |
| | DATE - 12-04-2023 | REVISED - |

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DECK SLAB REPAIR DETAILS
STRUCTURE NO. 011-0032
 SHEET 8 OF 15 SHEETS

| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|--|---------------------------|-----------|--------------|-----------|
| 714 | (135X,B-1)BJR,BDR,135R5-8 | CHRISTIAN | 37 | 25 |
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| ILLINOIS FED. AID PROJECT STP-BR-WJEG(300) | | | | |



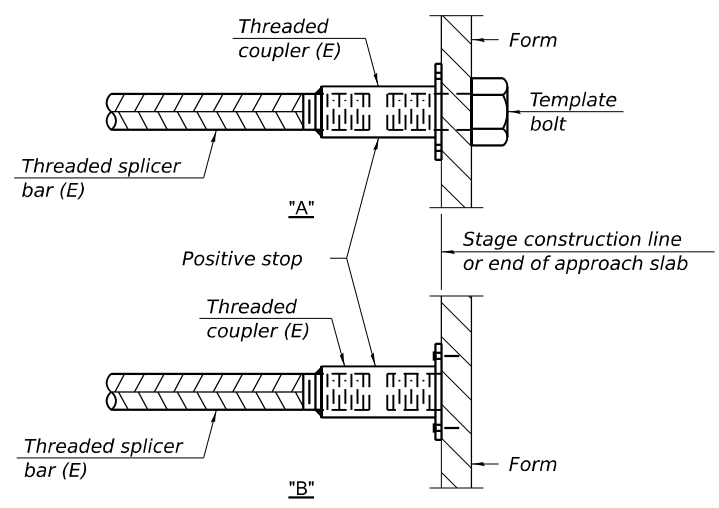
STANDARD BAR SPLICER ASSEMBLY PLAN

Only bar splicer assemblies as presented on the approved QPL list may be used.

Threaded splicer bar length = min. lap length + 1 1/2" + thread length

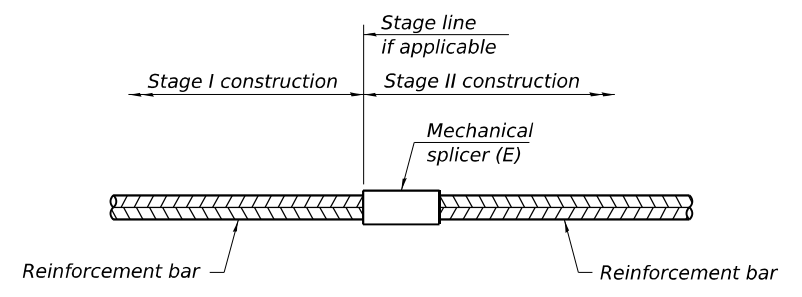
* Epoxy not required on Bar Splicer Assembly components used in conjunction with black bars.

| Location | Bar size | No. assemblies required | Minimum lap length |
|-------------|----------|-------------------------|--------------------|
| Bridge deck | #5 | 12 | 3'-6" |
| Hatch block | #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.



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.

MODEL: 2D Sheet 11
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BSD-1

2-1-2023

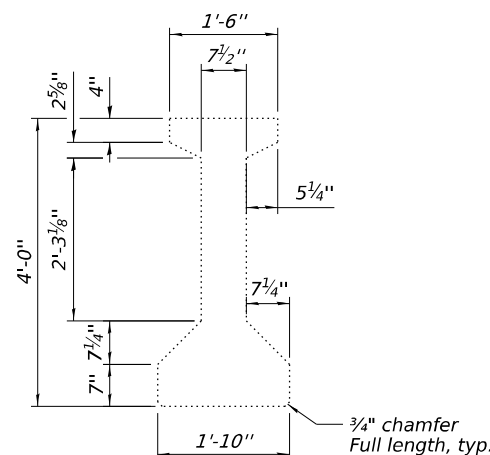
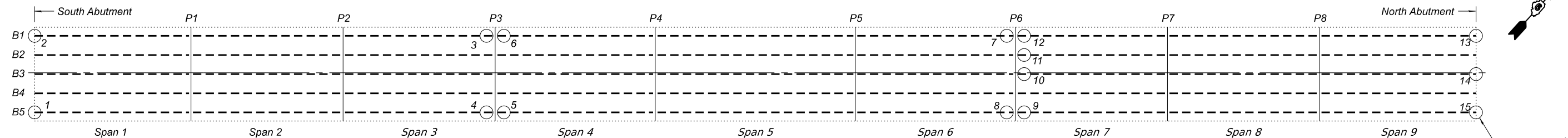


| | | |
|-------------------------|-------------------|-----------|
| USER NAME = myoung | DESIGNED - KTCE | REVISED - |
| DRAWN - KTCE | REVISED - | |
| PLOT SCALE = 0.167"/in. | CHECKED - MJT | REVISED - |
| PLOT DATE = 1/22/2024 | DATE - 12-04-2023 | REVISED - |

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**BAR SPLICER ASSEMBLY AND MECHANICAL SPLICER DETAILS
 STRUCTURE NO. 011-0032**

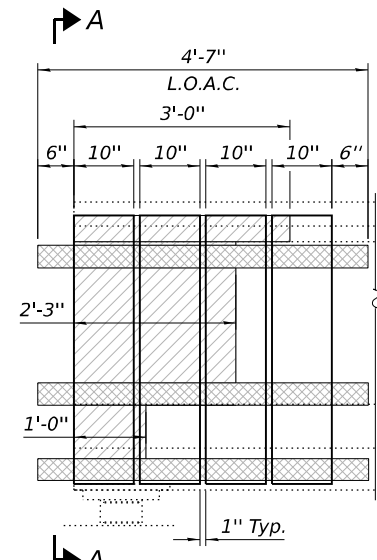
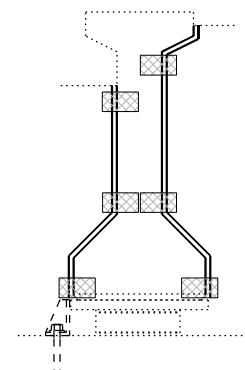
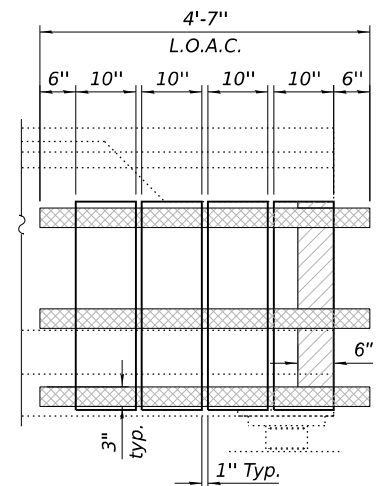
| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|--|---------------------------|-----------|--------------|--------------------|
| 714 | (135X,8-1)BJR,BDR,135R5-8 | CHRISTIAN | 37 | 26 |
| | | | | CONTRACT NO. 72219 |
| ILLINOIS FED. AID PROJECT STP-BR-WJEG(300) | | | | |



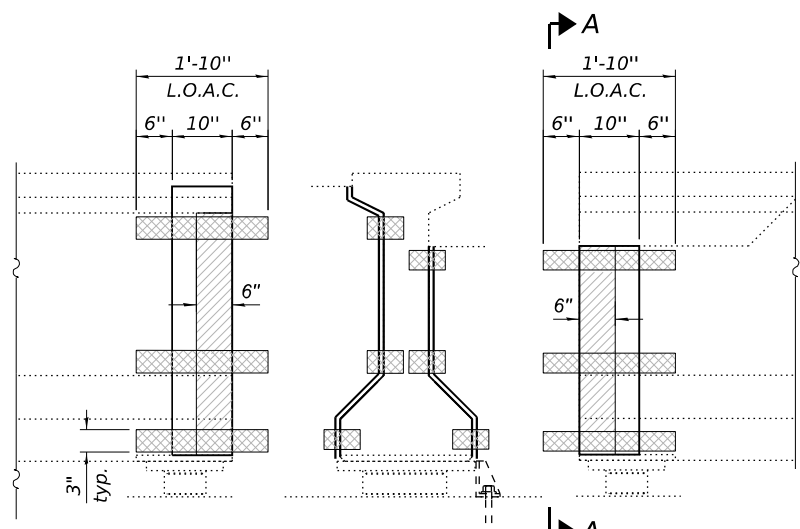
LEGEND

- Precast Prestressed Concrete I-Beam Repair
- Horizontal Anchorage Strip (Wrap onto end of beam, typ.)
- FRP with fibers oriented vertically. Fiber wrap shall bend to follow beam contours. Typ.

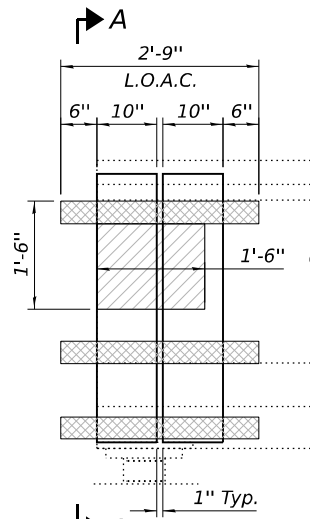
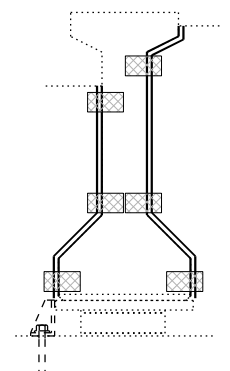
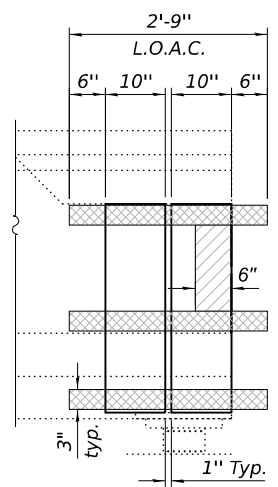
L.O.A.C. Limits of acrylic coating



BEAM END REPAIR
DETAIL 1



BEAM END REPAIR
DETAIL 2



BEAM END REPAIR
DETAIL 3

(Sheet 1 of 3)

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BEAM REPAIR DETAILS
STRUCTURE NO. 011-0032

SHEET 10 OF 15 SHEETS

| | | | | |
|--------------------|---------------------------|-----------|--------------|-----------|
| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 714 | (135X,B-1)BJR,BDR,135R5-8 | CHRISTIAN | 37 | 27 |
| CONTRACT NO. 72219 | | | | |

ILLINOIS FED. AID PROJECT STP-BR-WJEG(300)

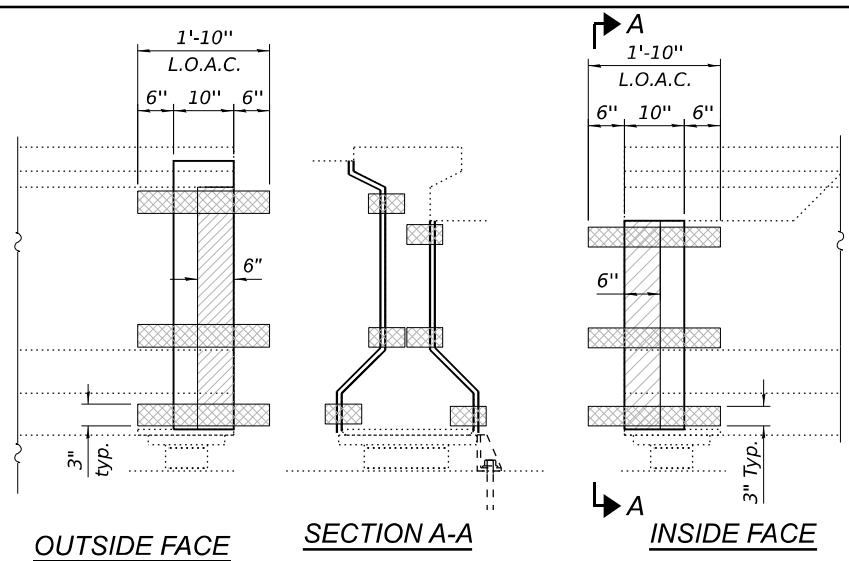
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 Professional Design Firm No. 184-006516



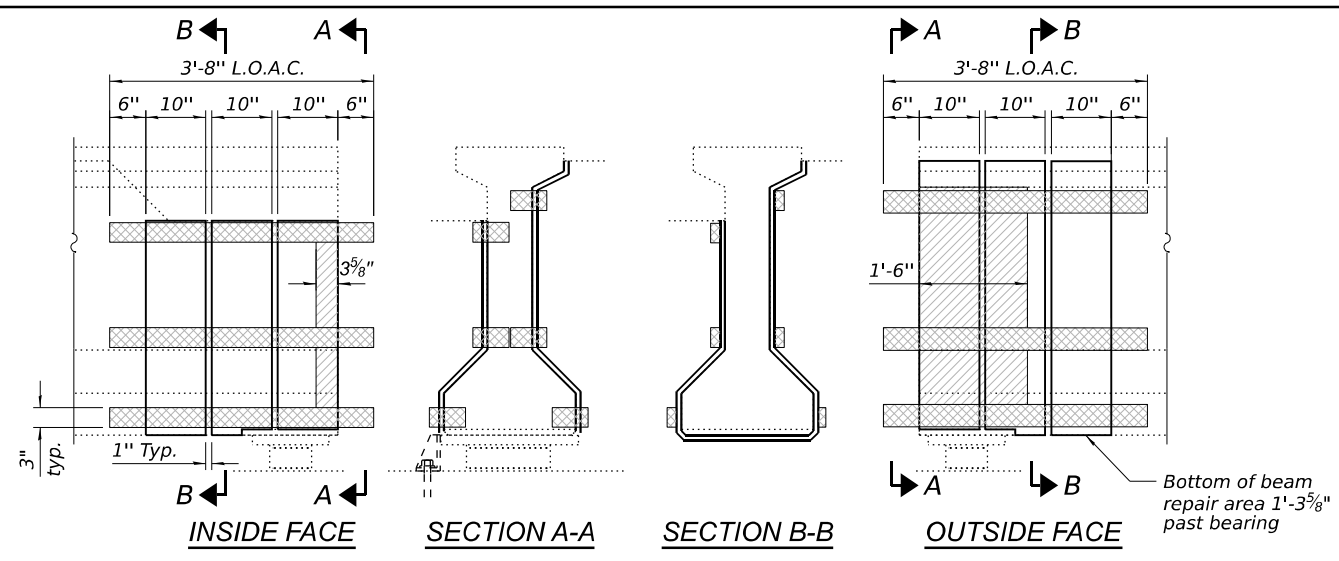
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| USER NAME | = myoung |
| DESIGNED | - KTCE |
| DRAWN | - KTCE |
| PLOT SCALE | = 0.16666633 1/16" |
| PLOT DATE | = 1/19/2024 |

| | |
|-----------|--------------|
| CHECKED | - MJT |
| DATE | - 12-04-2023 |
| REVISIONS | - |

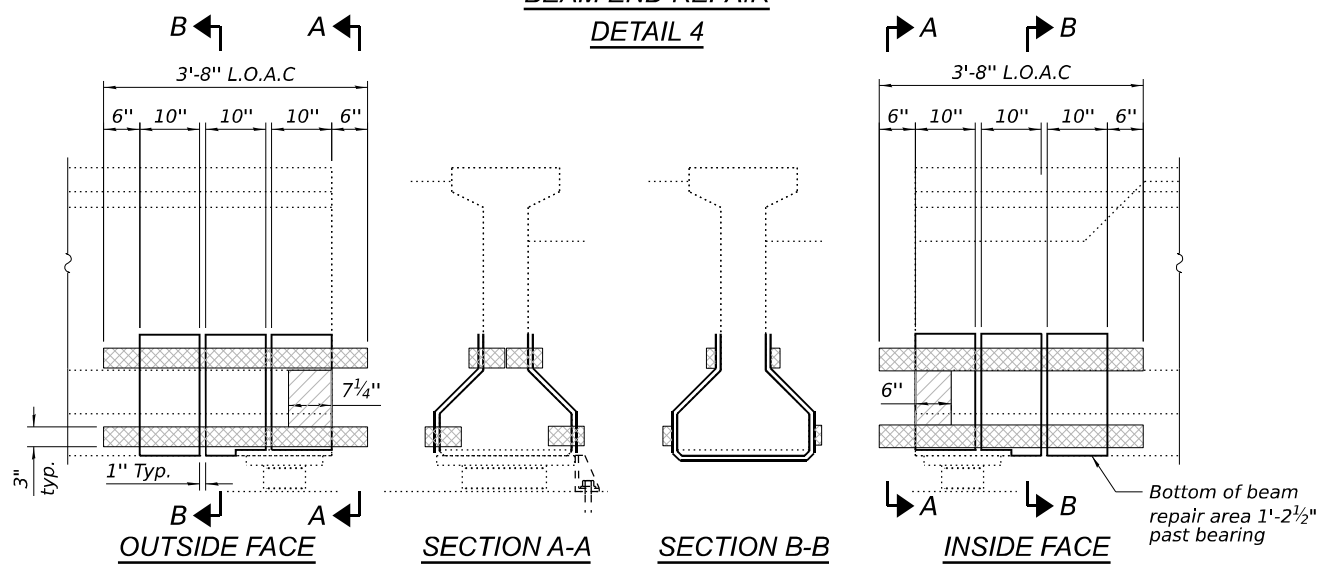
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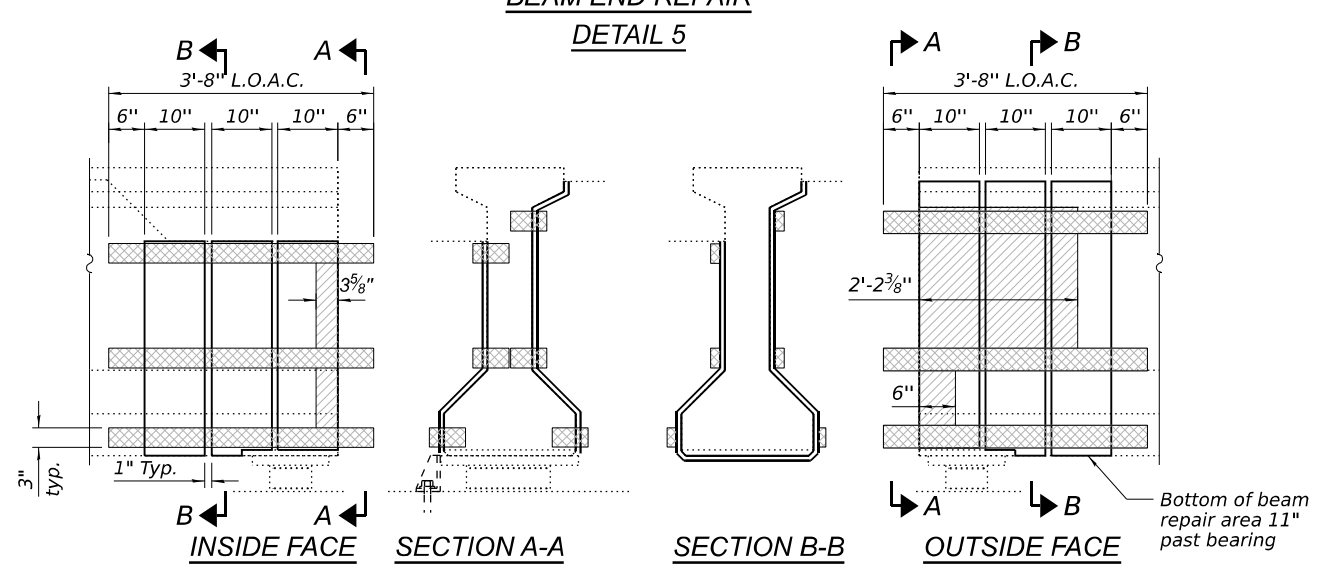
**BEAM END REPAIR
DETAIL 4**



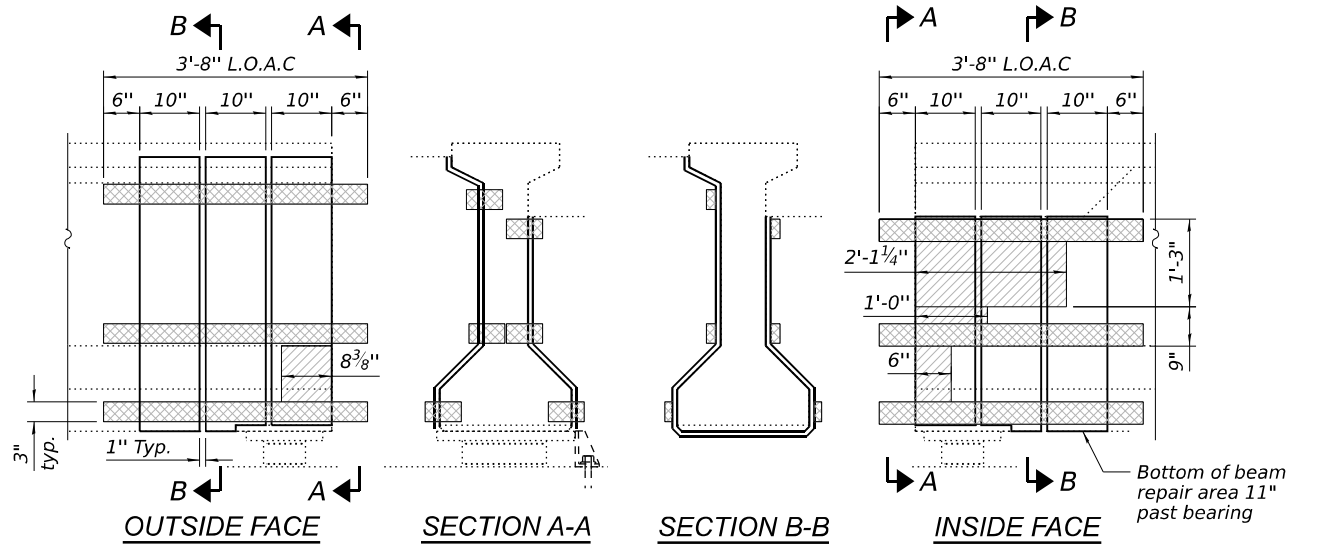
**BEAM END REPAIR
DETAIL 5**



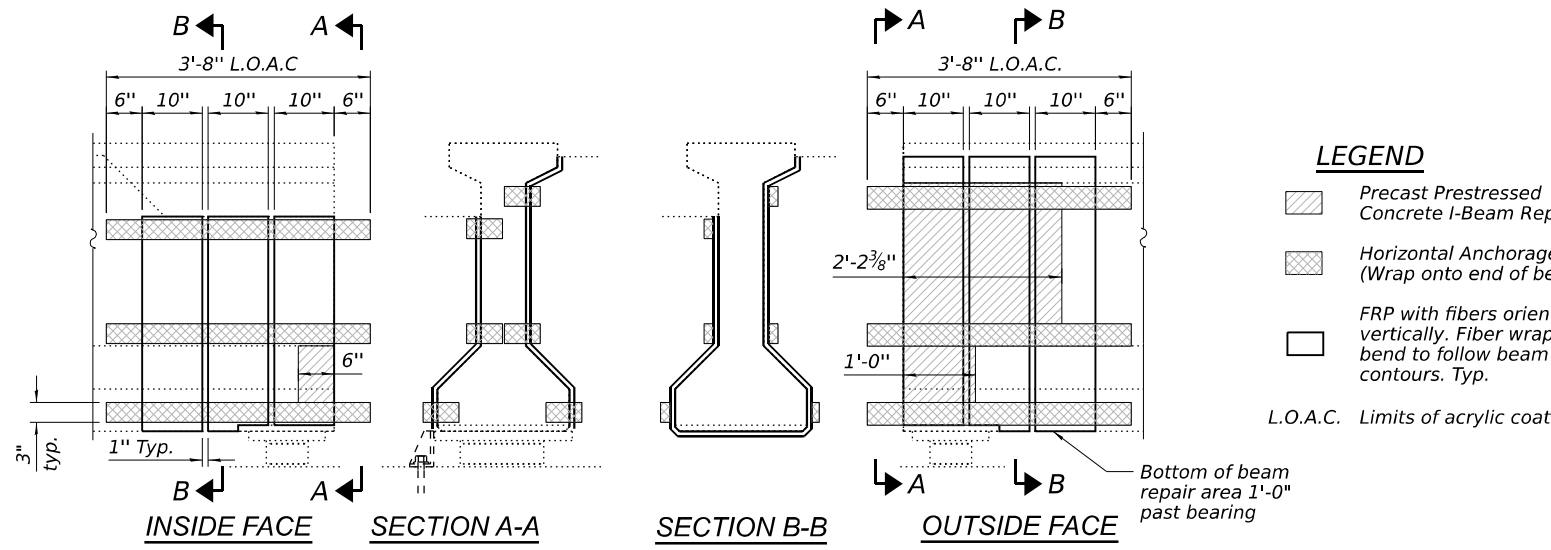
**BEAM END REPAIR
DETAIL 6**



**BEAM END REPAIR
DETAIL 7**



**BEAM END REPAIR
DETAIL 8**



**BEAM END REPAIR
DETAIL 9**

LEGEND

- Precast Prestressed Concrete I-Beam Repair
- Horizontal Anchorage Strip (Wrap onto end of beam, typ.)
- FRP with fibers oriented vertically. Fiber wrap shall bend to follow beam contours. Typ.
- L.O.A.C. Limits of acrylic coating

(Sheet 2 of 3)



KUHN & TRELLO
 CONSULTING ENGINEERS
 A Limited Liability Company
 109 N. 7th Street, 3rd Floor
 Springfield, IL 62701
 Phone: 217-618-0044

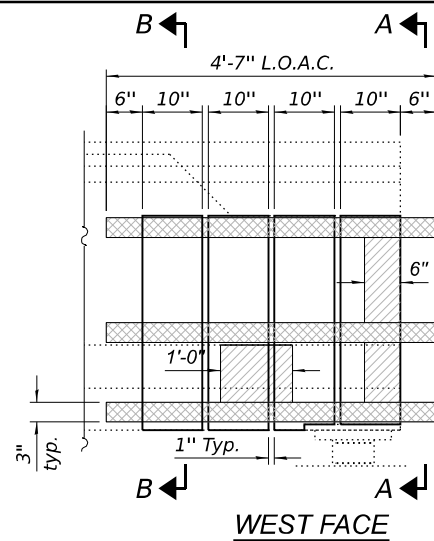
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| PLOT SCALE = 0.16666633 1/16" | DRAWN - KTCE | REVISED - |
| PLOT DATE = 1/19/2024 | CHECKED - MJT | REVISED - |
| | DATE - 12-04-2023 | REVISED - |

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

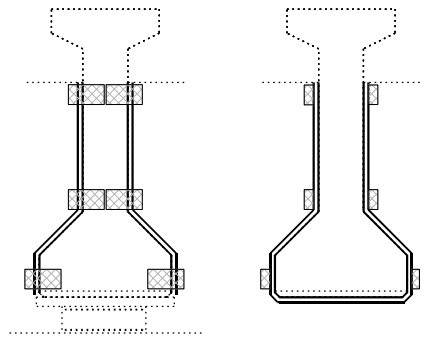
**BEAM REPAIR DETAILS
STRUCTURE NO. 011-0032**

SHEET 11 OF 15 SHEETS

| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|--|---------------------------|-----------|--------------|-----------|
| 714 | (135X,B-1)BJR,BDR,135R5-8 | CHRISTIAN | 37 | 28 |
| CONTRACT NO. 72219 | | | | |
| ILLINOIS FED. AID PROJECT STP-BR-WJEG(300) | | | | |

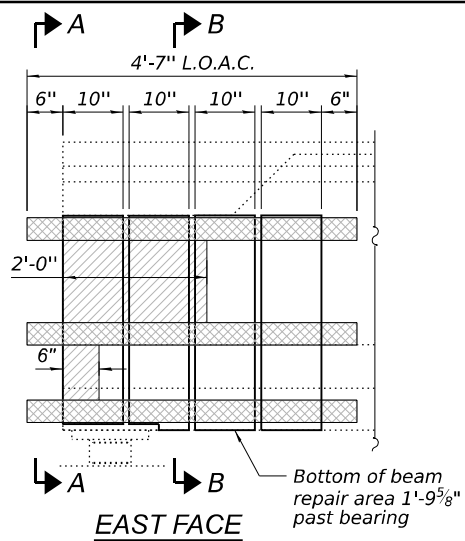


WEST FACE



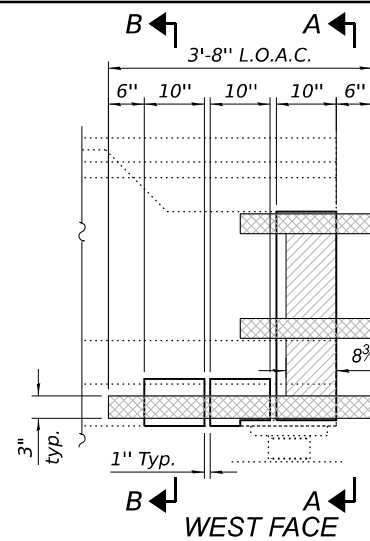
SECTION A-A SECTION B-B

BEAM END REPAIR
DETAIL 10

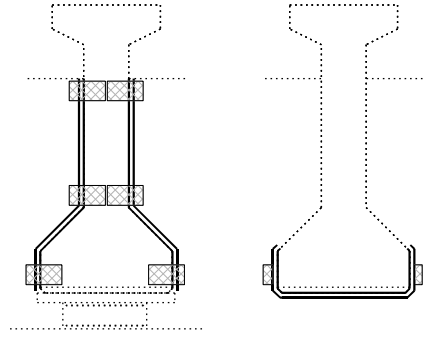


EAST FACE

Bottom of beam repair area 1'-9 3/8" past bearing

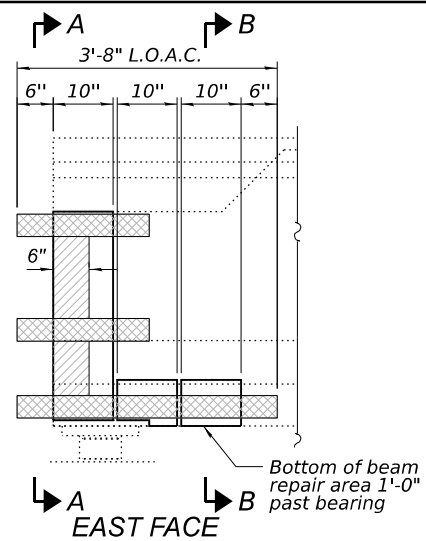


WEST FACE



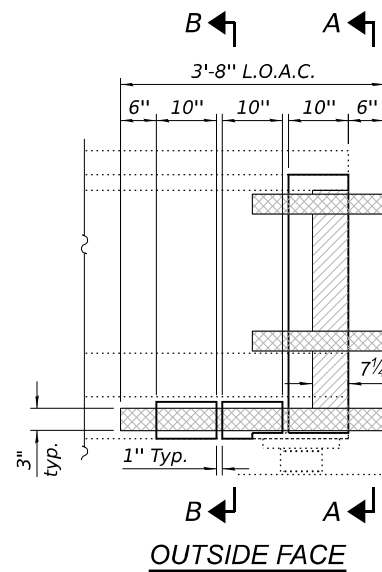
SECTION A-A SECTION B-B

BEAM END REPAIR
DETAIL 11

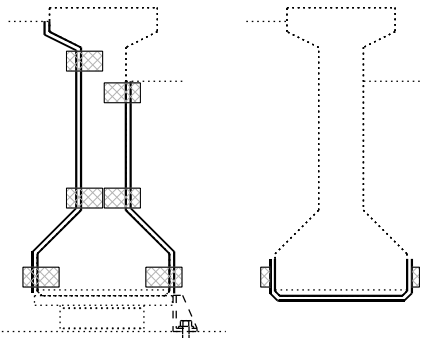


EAST FACE

Bottom of beam repair area 1'-0" past bearing

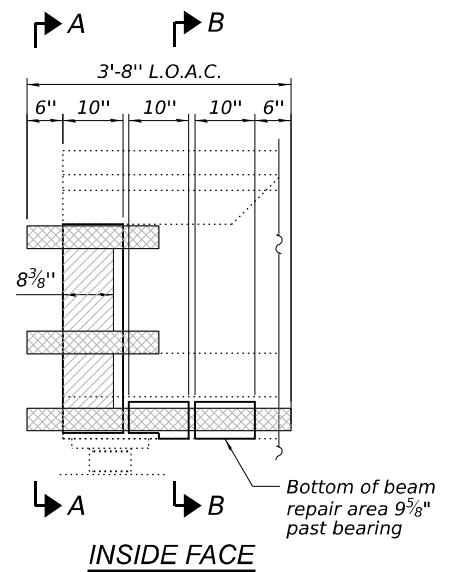


OUTSIDE FACE



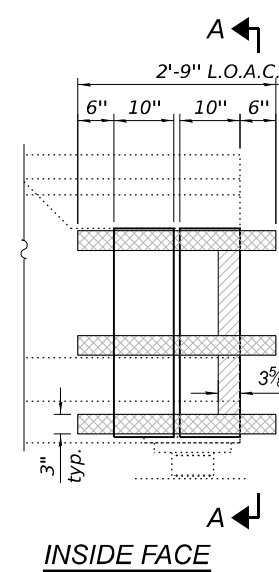
SECTION A-A SECTION B-B

BEAM END REPAIR
DETAIL 12

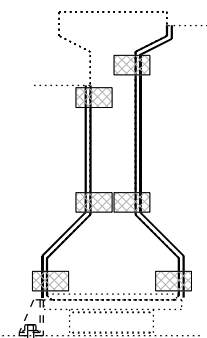


INSIDE FACE

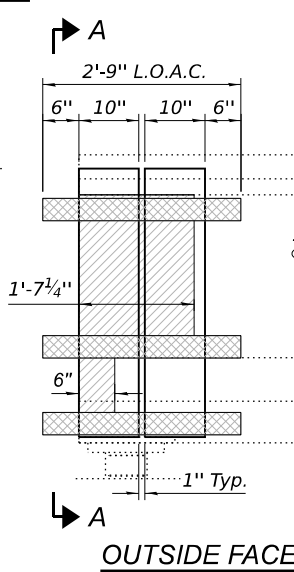
Bottom of beam repair area 9 5/8" past bearing



INSIDE FACE

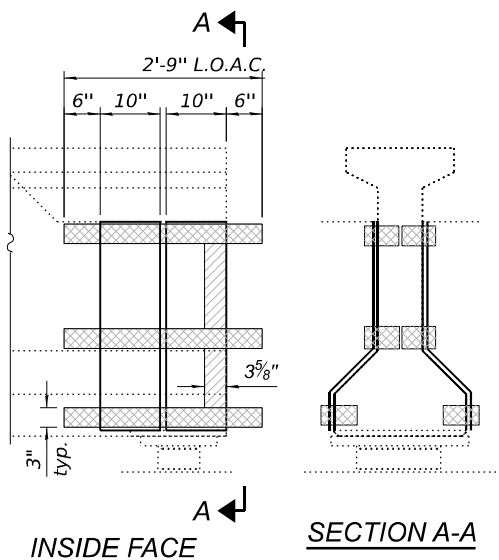


SECTION A-A

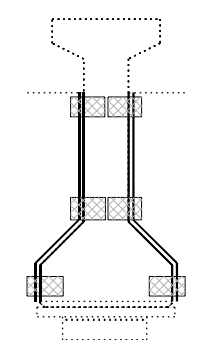


OUTSIDE FACE

BEAM END REPAIR
DETAIL 13

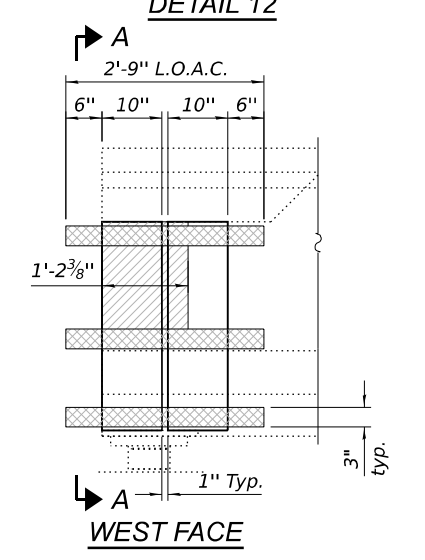


INSIDE FACE

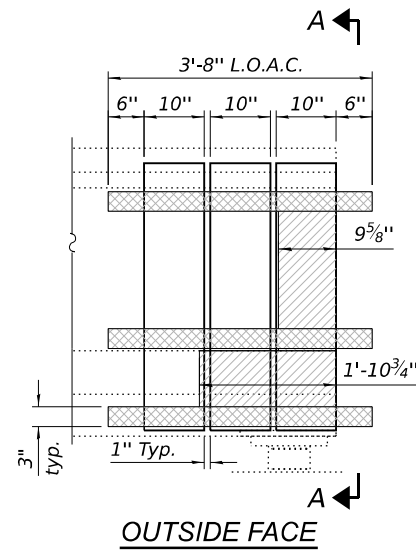


SECTION A-A

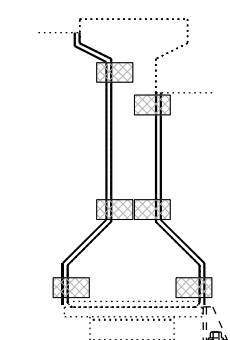
BEAM END REPAIR
DETAIL 14



WEST FACE

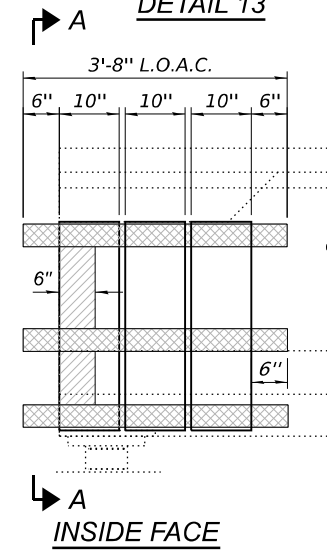


OUTSIDE FACE



SECTION A-A

BEAM END REPAIR
DETAIL 15



INSIDE FACE

BEAM END REPAIR
DETAIL 13

BILL OF MATERIAL

| Item | Unit | Total |
|--|---------|-------|
| Fiber Wrap | Sq. Ft. | 369 |
| Acrylic Coating | Sq. Yd. | 40.9 |
| Precast Prestressed Concrete I-Beam Repair | Sq. Ft. | 92 |

LEGEND

- Precast Prestressed Concrete I-Beam Repair
- Horizontal Anchorage Strip (Wrap onto end of beam, typ.)
- FRP with fibers oriented vertically. Fiber wrap shall bend to follow beam contours. Typ.

L.O.A.C. Limits of acrylic coating

(Sheet 3 of 3)

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BEAM REPAIR DETAILS
STRUCTURE NO. 011-0032

SHEET 12 OF 15 SHEETS

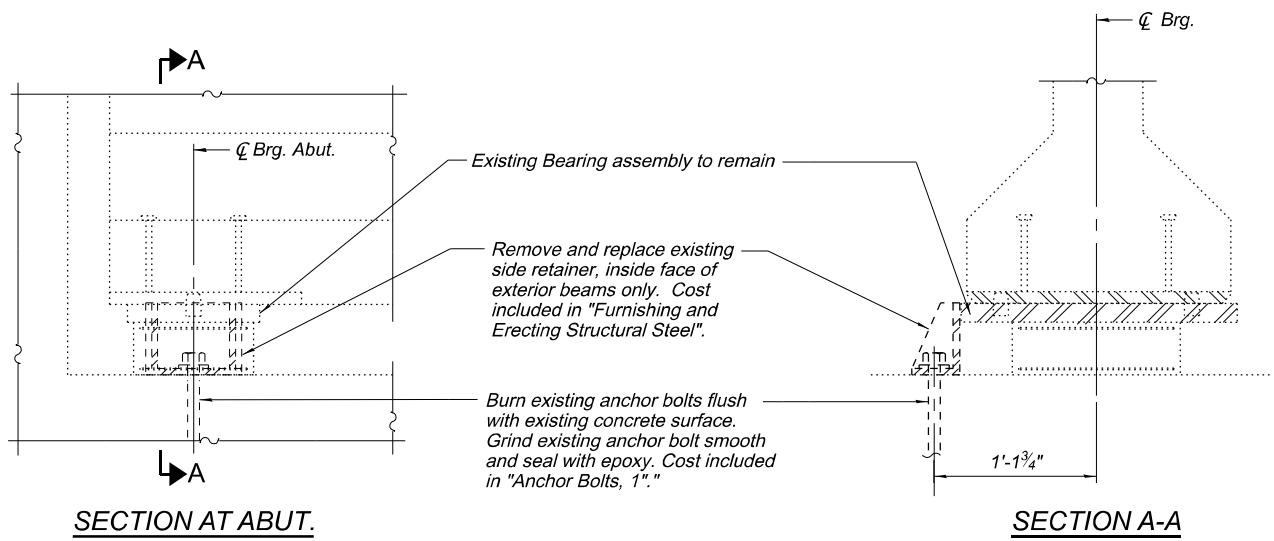
| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|--------------------|---------------------------|-----------|--------------|-----------|
| 714 | (135X,B-1)BJR,BDR,135R5-8 | CHRISTIAN | 37 | 29 |
| CONTRACT NO. 72219 | | | | |

ILLINOIS FED. AID PROJECT STP-BR-WJEG(300)

MODEL: Bm_Rpt_013.dwg
 FILE NAME: I:\21\045\02\DOT\06-PTB-199\030-W08-Christian County 72219\CADD\Detail\CAD\Sheet0110032_06172219-01\0412-06-04.dwg
 Professional Design Firm No. 184-006516

KUHN & TRELLO
 CONSULTING ENGINEERS
 A Limited Liability Company
 109 N. 7th Street, 3rd Floor
 Springfield, IL 62701
 Phone: 217-619-0044

| | | |
|-------------------------------|-------------------|-------------|
| USER NAME = myoung | DESIGNED - KTCE | REVISIONS - |
| PLOT SCALE = 0.16666633 1/16" | DRAWN - KTCE | REVISIONS - |
| PLOT DATE = 1/19/2024 | CHECKED - MJT | REVISIONS - |
| | DATE - 12-04-2023 | REVISIONS - |



SECTION AT ABUT.
(South abutment shown, North abut. sim.)

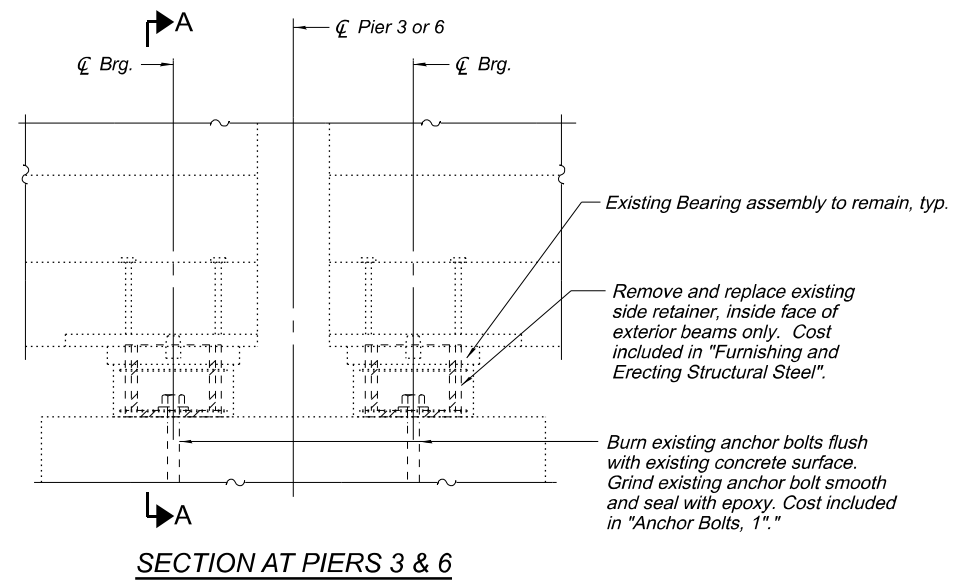
Existing Bearing assembly to remain

Remove and replace existing side retainer, inside face of exterior beams only. Cost included in "Furnishing and Erecting Structural Steel".

Burn existing anchor bolts flush with existing concrete surface. Grind existing anchor bolt smooth and seal with epoxy. Cost included in "Anchor Bolts, 1".

SECTION A-A

ANCHOR BOLT & SIDE RETAINER REMOVAL
(Inside face of exterior beams, 12 each)

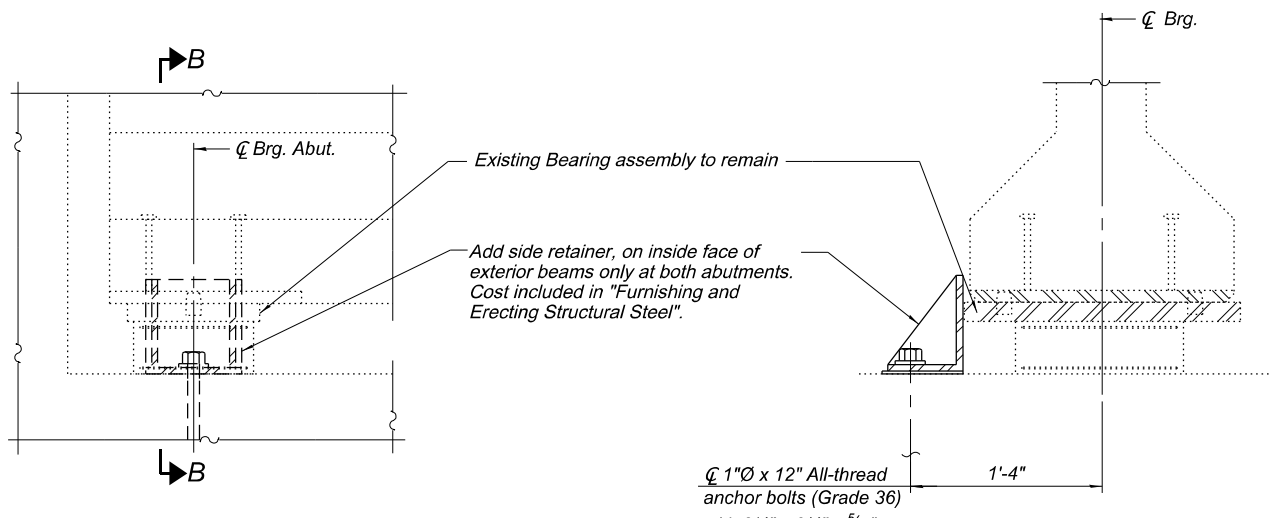


SECTION AT PIERS 3 & 6
(Pier 3 shown, Pier 6. sim.)

Existing Bearing assembly to remain, typ.

Remove and replace existing side retainer, inside face of exterior beams only. Cost included in "Furnishing and Erecting Structural Steel".

Burn existing anchor bolts flush with existing concrete surface. Grind existing anchor bolt smooth and seal with epoxy. Cost included in "Anchor Bolts, 1".



SECTION AT ABUT.
(South abutment shown, North abut. sim.)

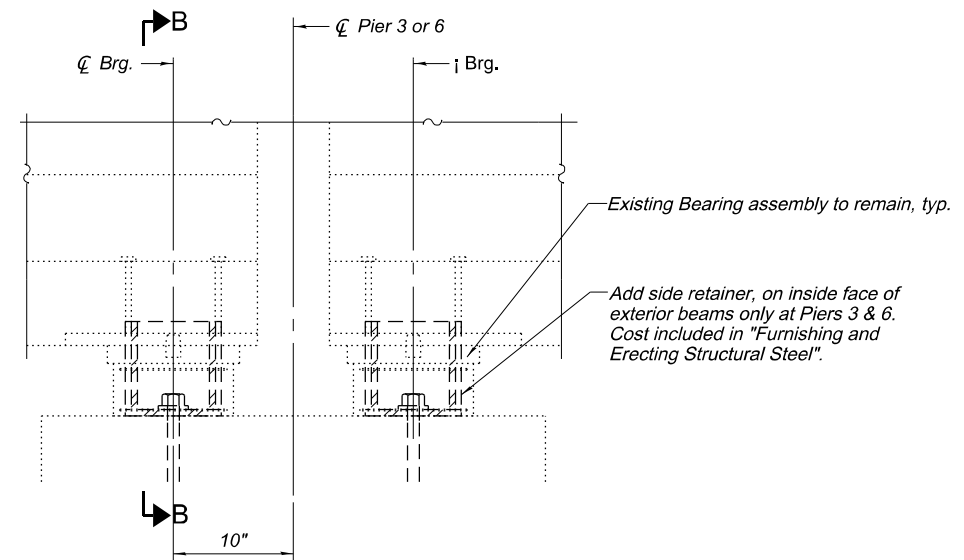
Existing Bearing assembly to remain

Add side retainer, on inside face of exterior beams only at both abutments. Cost included in "Furnishing and Erecting Structural Steel".

SECTION B-B

1"Ø x 12" All-thread anchor bolts (Grade 36) with 2 1/2" x 2 1/2" x 3/16" washer under nut.

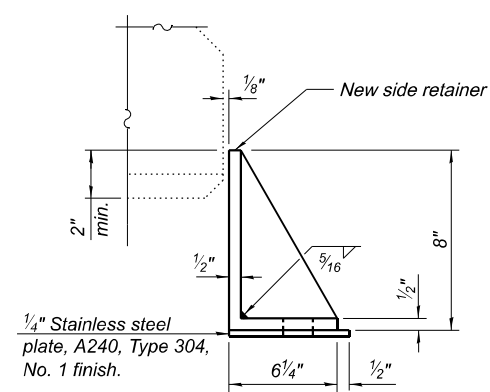
PROPOSED ANCHOR BOLTS & SIDE RETAINERS
(Inside face of exterior beams, 12 each)



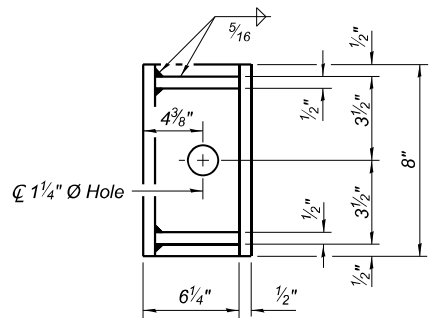
SECTION AT PIERS 3 & 6.
(Pier 3 shown, Pier 6. sim.)

Existing Bearing assembly to remain, typ.

Add side retainer, on inside face of exterior beams only at Piers 3 & 6. Cost included in "Furnishing and Erecting Structural Steel".



NEW SIDE RETAINER - BOTH ABUTMENTS & PIERS 3 & 6
(12 each)
Equivalent rolled angle with stiffeners will be allowed in lieu of welded plates.



Notes:
All side retainers, anchor bolts and washers shall be galvanized according to AASHTO M111 or M232 as applicable unless noted otherwise.
Side retainers and stainless steel plates shall be included in the cost of Furnishing and Erecting Structural Steel.

BILL OF MATERIAL

| Item | Unit | Total |
|--|-------|-------|
| Furnishing and Erecting Structural Steel | Pound | 310 |
| Anchor Bolts, 1" | Each | 12 |

MODEL: Sheet
 FILE NAME: J:\211046.08 IDOT D6 - PTB 199-030 - W08 - Christian County 72219\CADD\Drawings\0110032_06172219-013-Rev-06.dgn
 Professional Design Firm No. 184-006516



USER NAME = myoung
 PLOT SCALE = 0.167"/in.
 PLOT DATE = 1/22/2024

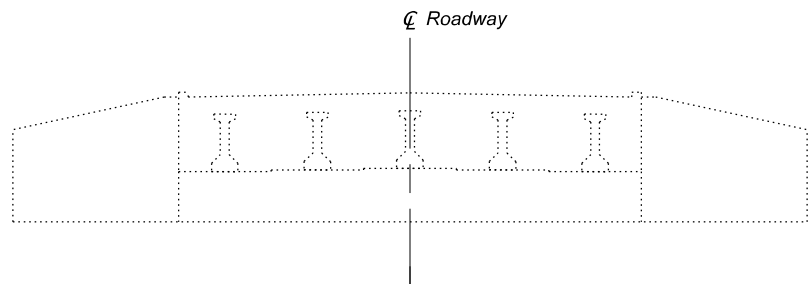
DESIGNED - KTCE
 DRAWN - KTCE
 CHECKED - MJT
 DATE - 12-04-2023

REVISED -
 REVISED -
 REVISED -
 REVISED -

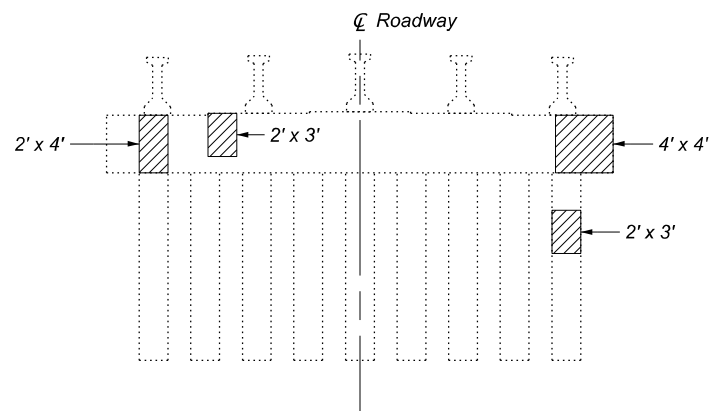
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SIDE RETAINER DETAILS
STRUCTURE NO. 011-0032
 SHEET 13 OF 15 SHEETS

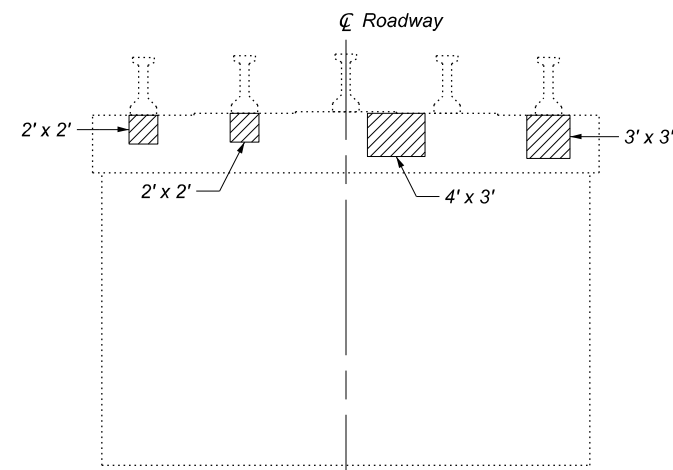
| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|--|---------------------------|-----------|--------------|-----------|
| 714 | (135X,B-1)BJR,BDR,135R5-8 | CHRISTIAN | 37 | 30 |
| CONTRACT NO. 72219 | | | | |
| ILLINOIS FED. AID PROJECT STP-BR-WJEG(300) | | | | |



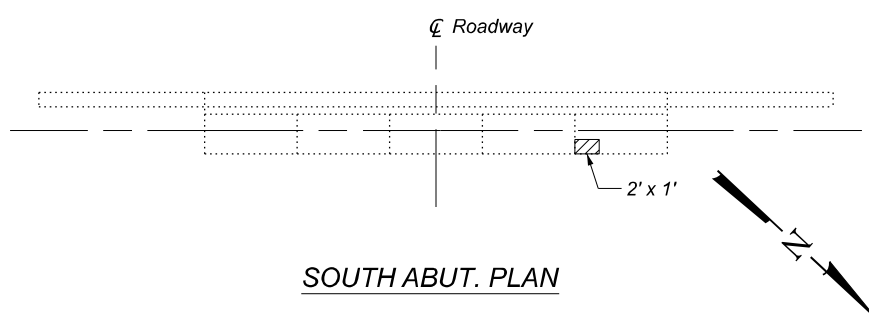
SOUTH ABUT. ELEVATION
(Looking South)



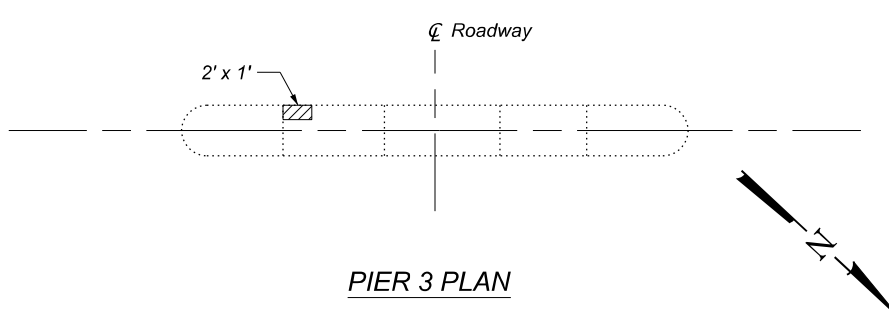
PIER 3 ELEVATION - SOUTH FACE
(Looking North)



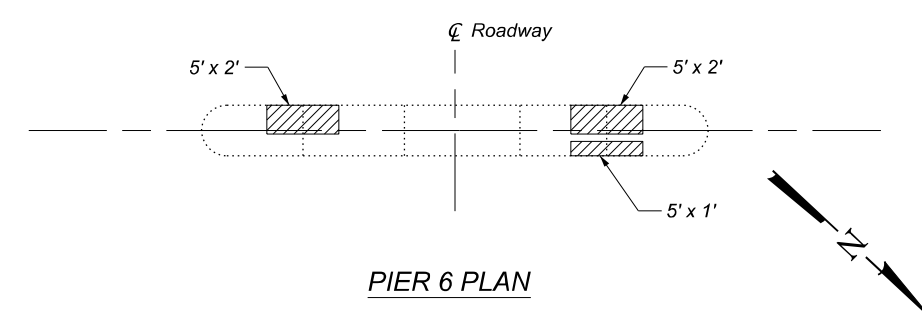
PIER 6 ELEVATION - SOUTH FACE
(Looking North)



SOUTH ABUT. PLAN



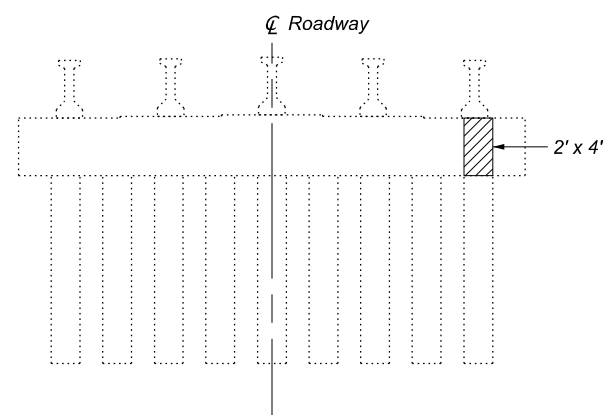
PIER 3 PLAN



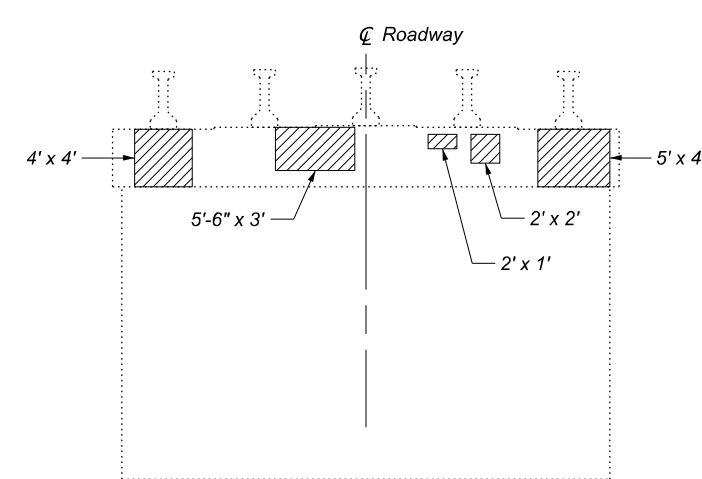
PIER 6 PLAN

SUBSTRUCTURE REPAIR PLAN

Substructure Repair (Less Than 5")



PIER 3 ELEVATION - NORTH FACE
(Looking South)



PIER 6 ELEVATION - NORTH FACE
(Looking South)

**SUBSTRUCTURE
BILL OF MATERIAL**

| Item | Unit | Total |
|--|---------|-------|
| Structural Repair of Concrete (Depth Less Than or Equal to 5 Inches) | Sq. Ft. | 161 |

MODEL: 2D Sheet M
 FILE NAME: 20240408 IDOT D6-PTB-19A-C30-W08-Christian County 72219-CADData\CAD Sheets\0110032_06172219-014-SubRepair.dgn
 Professional Design Firm No. 184-006516

KT
KUHN & TRELLO
 CONSULTING ENGINEERS
 A Limited Liability Company
 109 N. 7th Street, 3rd Floor
 Springfield, IL 62701
 Phone: 217-619-0044

| | | |
|----------------------------------|-------------------|-----------|
| USER NAME = myoung | DESIGNED - KTCE | REVISED - |
| PLOT SCALE = 0.16666633 1/16 in. | DRAWN - KTCE | REVISED - |
| PLOT DATE = 1/22/2024 | CHECKED - MJT | REVISED - |
| | DATE - 12-04-2023 | REVISED - |

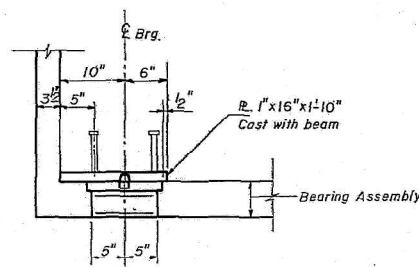
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**SUBSTRUCTURE REPAIR DETAILS
STRUCTURE NO. 011-0032**

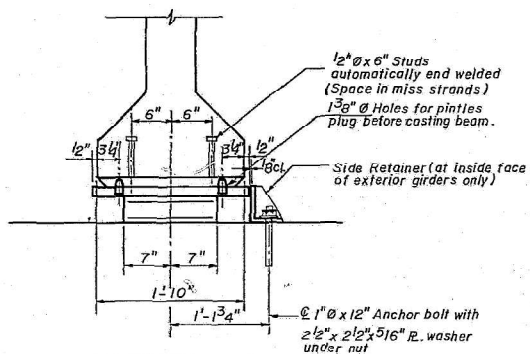
SHEET 14 OF 15 SHEETS

| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|--|---------------------------|-----------|--------------|-----------|
| 714 | (135X,B-1)BJR,BDR,135R5-8 | CHRISTIAN | 37 | 31 |
| CONTRACT NO. 72219 | | | | |
| ILLINOIS FED. AID PROJECT STP-BR-WJEG(300) | | | | |

| SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|-----------------------|-----------|-------------------|-----------|
| 714 (135-X,B-1) | CHRISTIAN | 49 | 25 |
| STA. 931+50 | | TO STA. 988+10.28 | |
| FED. ROAD DIST. NO. 7 | ILLINOIS | FED. AID PROJECT | |



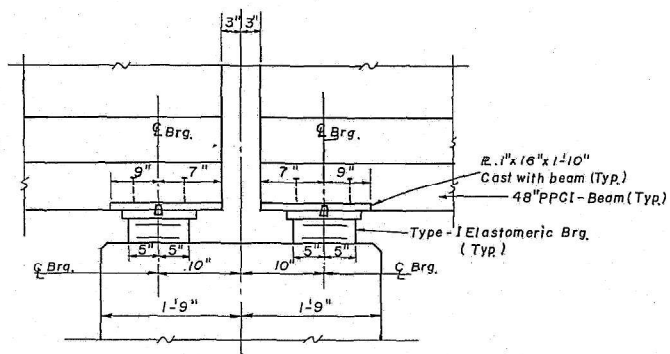
SECTION AT ABUT.



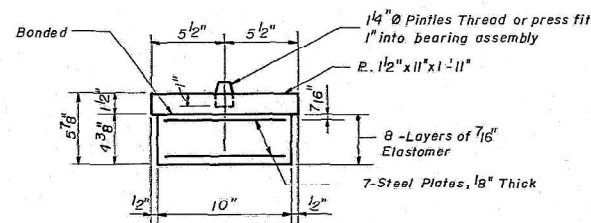
SECTION A-A

TYPE I ELASTOMERIC EXP. BRG.

Note:
After beams have been erected, holes at expansion bearings shall be drilled and anchor bolts grouted in place. See sheet No. 27 thru 30.

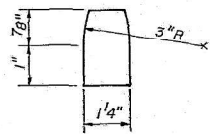


SECTION AT PILE BENT & PIER NO. 3, 4 & 6

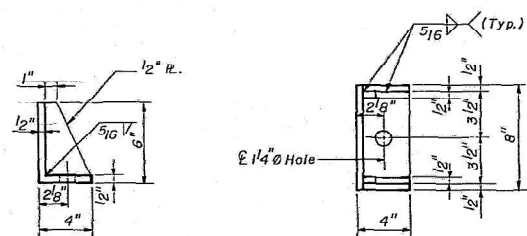


BEARING ASSEMBLY

Note:
Shim plates shall not be placed under bearing assembly.



PINTLE



SIDE RETAINER

| | |
|----------|-------------|
| DESIGNED | S. C. MEHTA |
| CHECKED | |
| DRAWN | R. ARBAS |
| CHECKED | G. E. KRUPA |

BILL OF MATERIAL

| Item | Unit | Total |
|------------------------------------|------|-------|
| Elastomer Bearing Assembly, Type I | Each | 35 |

| REVISIONS | |
|-----------|------|
| NAME | DATE |
| | |
| | |
| | |
| | |

ILLINOIS DEPARTMENT OF TRANSPORTATION
BEARING DETAILS
ILLINOIS ROUTE 48 OVER
SOUTH FORK OF SANGAMON RIVER
F.A.P. RTE. 714 SECTION 135-(X,B-1)
Sta. 949+00
CHRISTIAN COUNTY
 SCALE: VERT. NO SCALE
 HORIZ. NO SCALE
 DATE JAN. 1989 STRUCTURE NO. 011-0032

DHF DELON HAMPTON & ASSOCIATES, Chartered
 Engineers Architects Planners

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

EXISTING BEARING DETAILS - FOR INFORMATION ONLY
STRUCTURE NO. 011-0032

SHEET 15 OF 15 SHEETS

| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|--------------------|---------------------------|-----------|--------------|-----------|
| 714 | (135X,B-1)BJR,BDR,135R5-8 | CHRISTIAN | 37 | 32 |
| CONTRACT NO. 72219 | | | | |

ORIGINAL PLANS FOR INFORMATION ONLY

MODEL: Bearing Chart
 FILE NAME: I:\21720458.DWG IDOT.D6 - FTB 1999-03 - W08 - Christian County 72219\CAD\data\CAD\Sheets\0110032_05172219-01-15-Print-Dwg.dgn

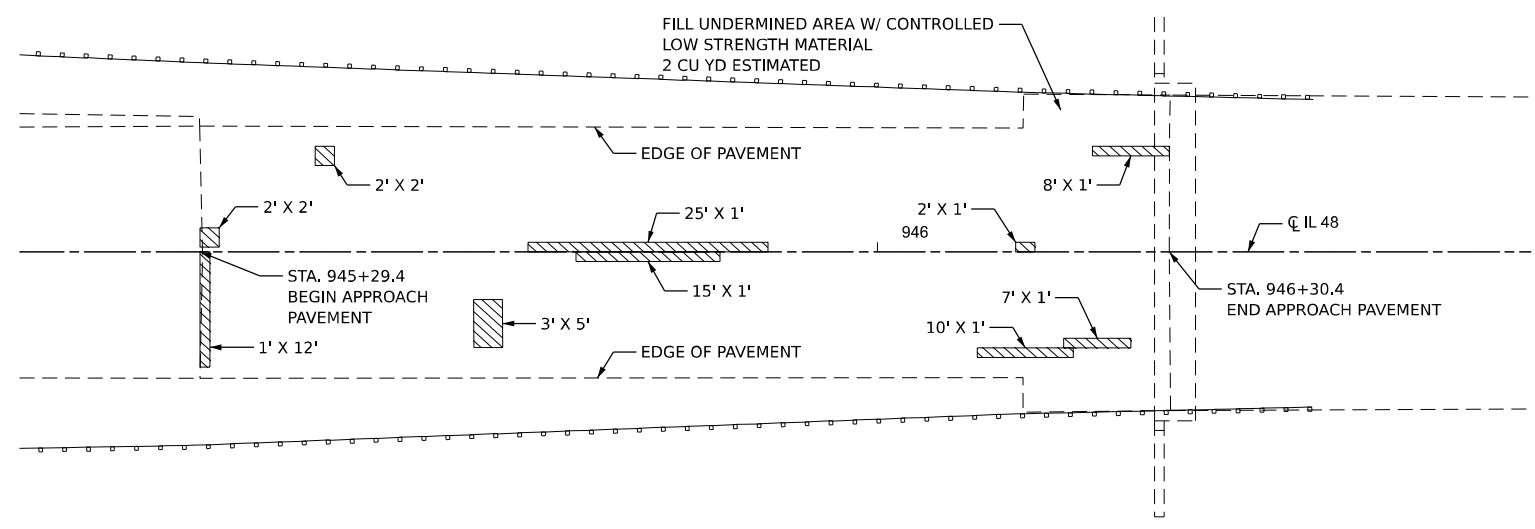
KT KUHN & TRELLO CONSULTING ENGINEERS
 A Limited Liability Company
 109 N. 7th Street, 3rd Floor
 Springfield, IL 62701
 Phone: 217-619-0044
 Professional Design Firm No. 184-006516

| | |
|------------|--------------------|
| USER NAME | = myoung |
| DESIGNED | - KTCE |
| DRAWN | - KTCE |
| CHECKED | - MJT |
| DATE | - 12-04-2023 |
| PLOT SCALE | = 0.16666633 1/16" |
| PLOT DATE | = 1/18/2024 |

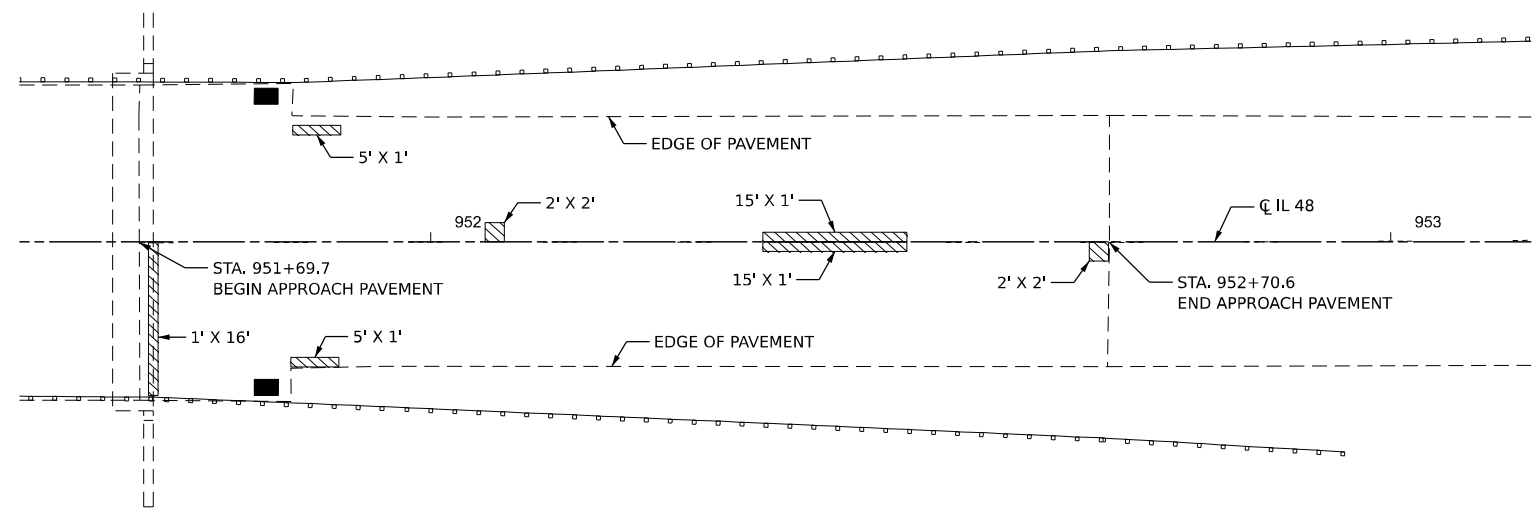
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| DESIGNED | - KTCE | REVISED | - |
| DRAWN | - KTCE | REVISED | - |
| CHECKED | - MJT | REVISED | - |
| DATE | - 12-04-2023 | REVISED | - |

ILLINOIS FED. AID PROJECT SFP-BR-WJEG(300)

LEGEND



WEST APPROACH SLAB



EAST APPROACH SLAB

MODEL: 2D Sheet 4
 FILE NAME: \\21210606.08\DOT\06-PTB-19A-030-W08-Christian County 72219\CADD\Detail\CD\sheet0672219-approachslab.dgn

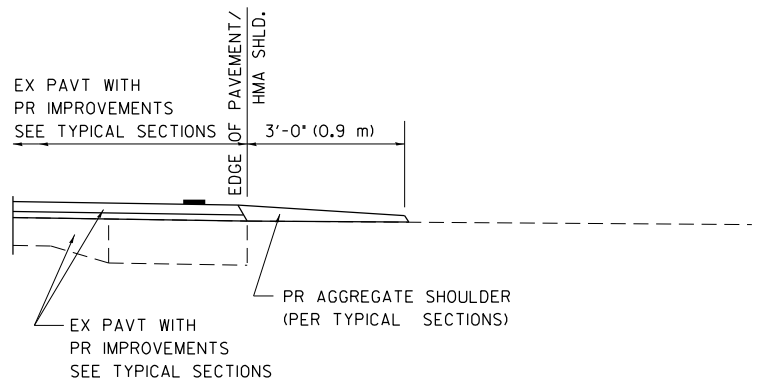


| | | |
|-------------------------------|------------|-----------|
| USER NAME = msutheard | DESIGNED - | REVISED - |
| DRAWN - | REVISOR - | |
| PLOT SCALE = 0.16666633 1/16" | CHECKED - | REVISED - |
| PLOT DATE = 1/19/2024 | DATE - | REVISED - |

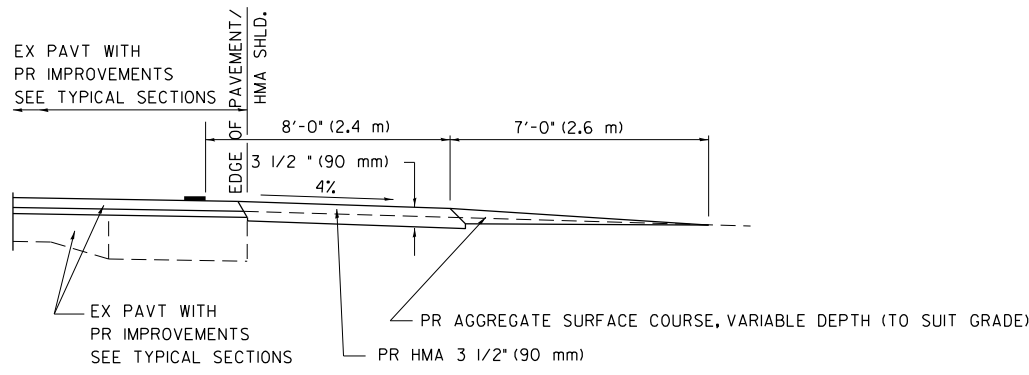
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

| | | | |
|-------------------------------------|------------|---------------|--------|
| APPROACH SLAB REPAIR DETAILS | | | |
| SCALE: | SHEET 000 | OF | SHEETS |
| | STA. _____ | TO STA. _____ | |

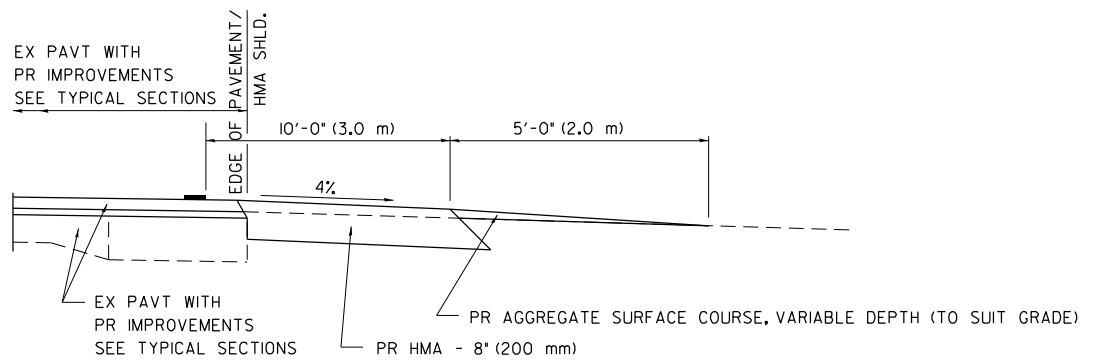
| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|--|---------------------------|-----------|--------------|-----------|
| 714 | (135X,B-1)BJR,BDR,135RS-8 | CHRISTIAN | 37 | 33 |
| CONTRACT NO. 72219 | | | | |
| ILLINOIS FED. AID PROJECT STP-BR-WJEG(300) | | | | |



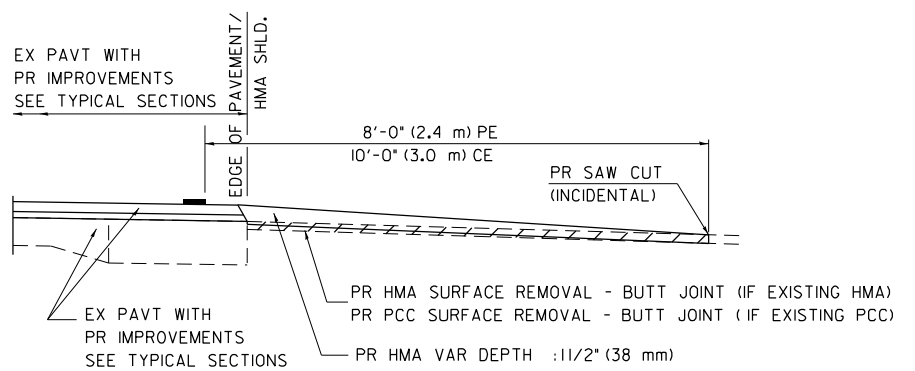
SECTION A-A FOR EX EARTH/AGGREGATE FE



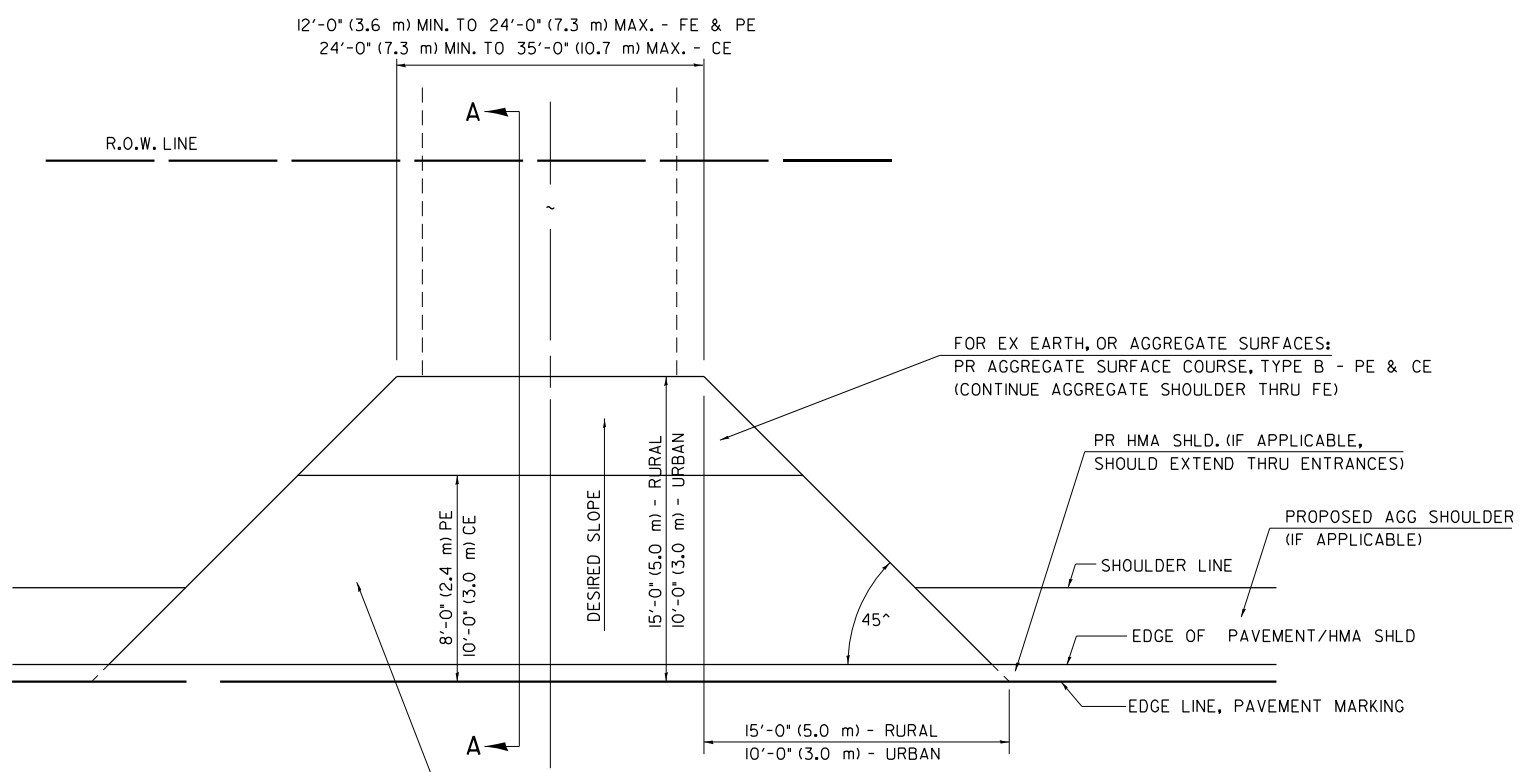
SECTION A-A FOR EX EARTH/AGGREGATE PE



SECTION A-A FOR EX EARTH/AGGREGATE CE & SIDE ROAD



SECTION A-A FOR EX HMA/PC CONCRETE PE, CE & SIDE ROAD



FOR EX EARTH OR AGGREGATE SURFACES:
 PR HMA SURFACE REMOVAL (IF APPLICABLE)
 PR AGGREGATE SHOULDER THRU - FE
 PR HMA CONCRETE 3 1/2" (90 mm) - PE
 PR HMA CONCRETE 8" (200 mm) - CE

FOR EX HMA CONCRETE SURFACES:
 PR HMA SURFACE REMOVAL-BUTT JOINT

FOR EX PCC SURFACES:
 PR PCC SURFACE REMOVAL-BUTT JOINT

FOR EX EARTH, OR AGGREGATE SURFACES:
 PR AGGREGATE SURFACE COURSE, TYPE B - PE & CE
 (CONTINUE AGGREGATE SHOULDER THRU FE)

PR HMA SHLD. (IF APPLICABLE,
 SHOULD EXTEND THRU ENTRANCES)

PROPOSED AGG SHOULDER
 (IF APPLICABLE)

GENERAL NOTES:

THE RESIDENT ENGINEER WILL DETERMINE THE EXACT TYPE OF IMPROVEMENT TO BE COMPLETED FOR ALL ENTRANCES, SIDEROADS AND MAILBOX TURNOUTS ON THIS PROJECT.

THE PLAN DETAILS AND SCHEDULES SHOULD BE USED AS A GUIDE FOR THE ENGINEER TO IMPLEMENT THE FINAL DESIGN. THE ENGINEER MAY DECIDE TO SALVAGE PORTIONS OF THE EXISTING ENTRANCE PAVEMENT STRUCTURE; THEREFORE, REDUCING PAY ITEM QUANTITIES. NO ADDITIONAL PAYMENT WILL BE ALLOWED FOR THIS REDUCTION IN QUANTITIES.

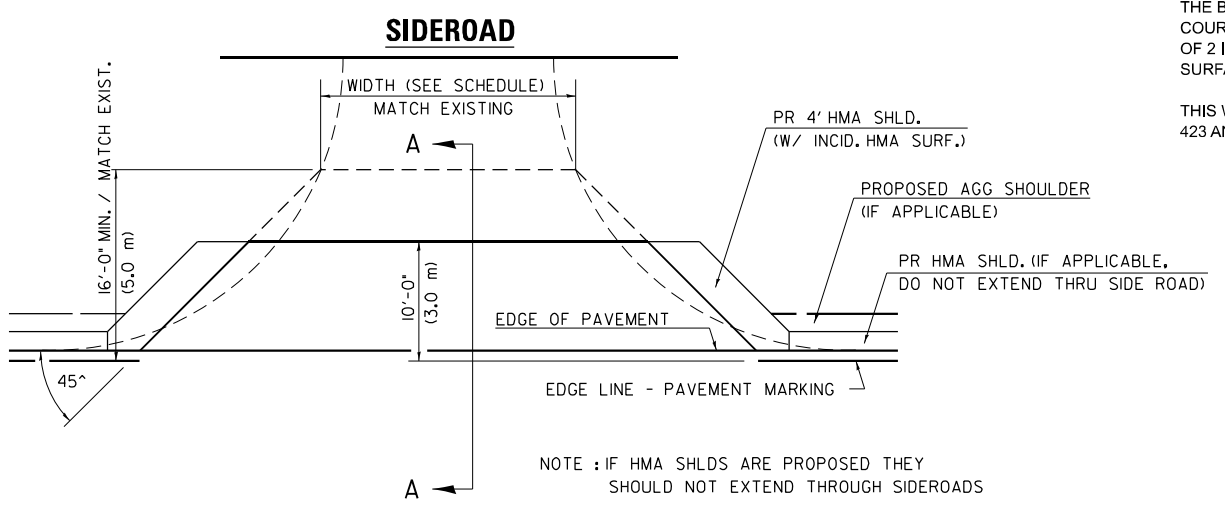
ANY WORK THE ENGINEER REQUIRES WHICH IS NOT COVERED BY A PAY ITEM CONTAINED IN THE PLANS WILL BE PAID FOR IN ACCORDANCE WITH ARTICLE 109.04 OF THE STANDARD SPECIFICATIONS.

HMA CONCRETE REQUIRED TO CONSTRUCT THE ENTRANCES SHALL BE IN ACCORDANCE WITH THE APPLICABLE PORTIONS OF SECTION 406 AND 408 OF THE STANDARD SPECIFICATIONS AND AS DIRECTED BY THE ENGINEER.

WHEN THE HMA CONCRETE PROPOSED FOR THE IMPROVEMENT IS THICKER THAN 3 INCHES (75 mm) AND REQUIRE PLACEMENT IN MORE THAN ONE LIFT. THE BOTTOM LIFT(S) SHALL MEET THE REQUIREMENTS OF HMA BASE COURSE IN SECTION 406 OF THE STANDARD SPECIFICATIONS AND THE TOP LIFT OF 2 INCHES (50 mm) SHALL MEET THE REQUIREMENTS OF HMA CONCRETE SURFACE COURSE, SUPERPAVE.

THIS WORK WILL BE PAID FOR IN ACCORDANCE WITH SECTIONS 351, 358, 408, 423 AND 440 OF THE STANDARD SPECIFICATIONS.

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.



NOTE : IF HMA SHLDS ARE PROPOSED THEY SHOULD NOT EXTEND THROUGH SIDEROADS

MODEL: 2D Sheet 4
 FILE NAME: 20240608 IDOT D6 - PTB 19A-030 - W08 - Christian County 72219\CADD\Detail\CAD\Sheet\0672219-ent-details-06entppp01.dgn
 Professional Design Firm No. 184-006516

ENT PPP.DGN



| | | | |
|-------------------------------|--------------------------|-------------------|-----|
| USER NAME = msutheard | DESIGNED - | REVISED - 2/19/03 | JCN |
| | DRAWN - CADD | REVISED - 4/01/04 | JCN |
| PLOT SCALE = 0.16666633 1/16" | CHECKED - JCN | REVISED - | |
| PLOT DATE = 1/24/2024 | DATE - FEBRUARY 23, 1999 | REVISED - | |

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

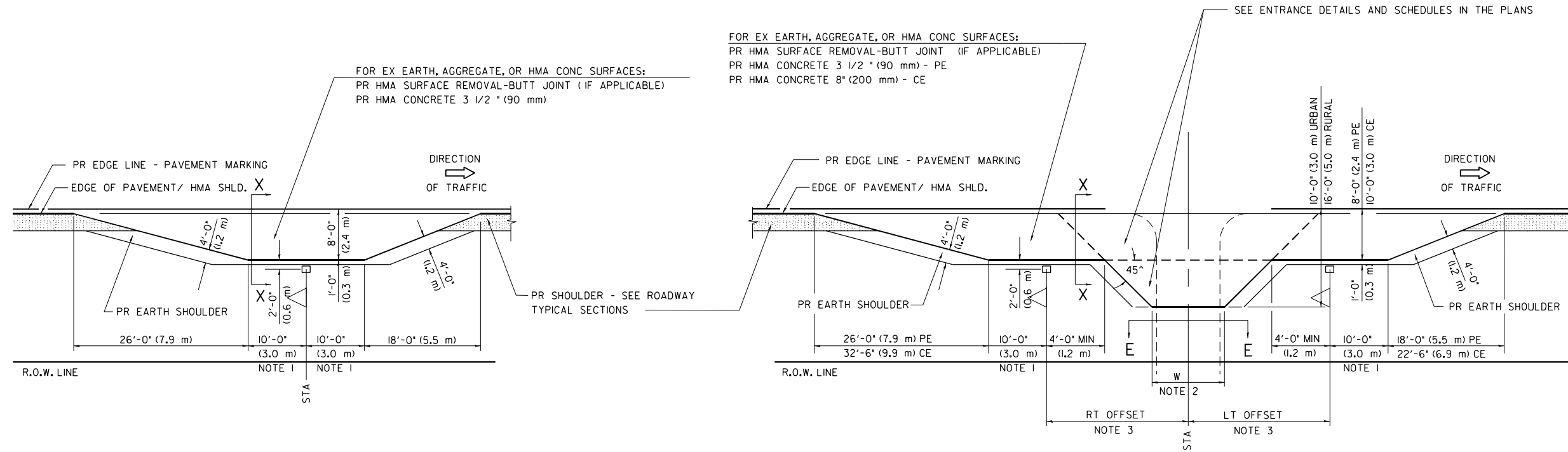
**DIST. 6 DETAILS FOR RURAL/URBAN ENT., MAILBOX
 TURNOUT & SIDEROADS W/O CONC. GUTTER (3P-PROJ.)**

SCALE: SHEET OF SHEETS STA. TO STA.

| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|--------------------|---------------------------|-----------|--------------|-----------|
| 714 | (135X.B-1)BJR.BDR.135RS-8 | CHRISTIAN | 37 | 34 |
| CONTRACT NO. 72219 | | | | |

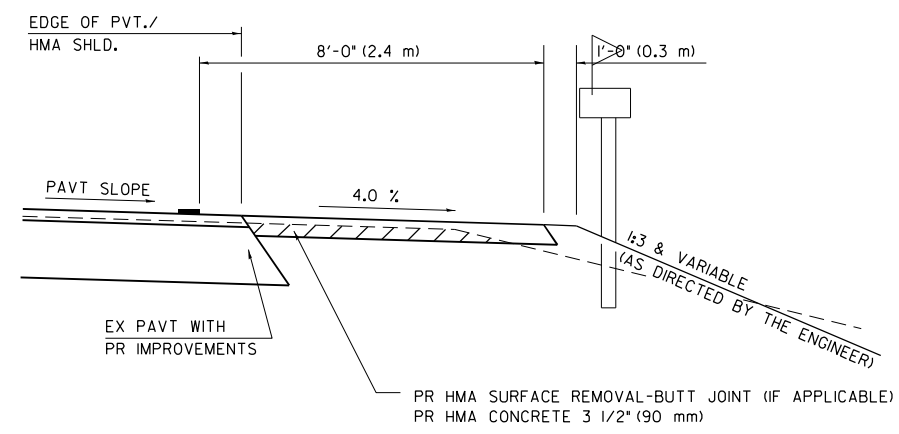
ILLINOIS FED. AID PROJECT STP-BR-WJEG(300)

DETAILS OF MAILBOX TURNOUTS

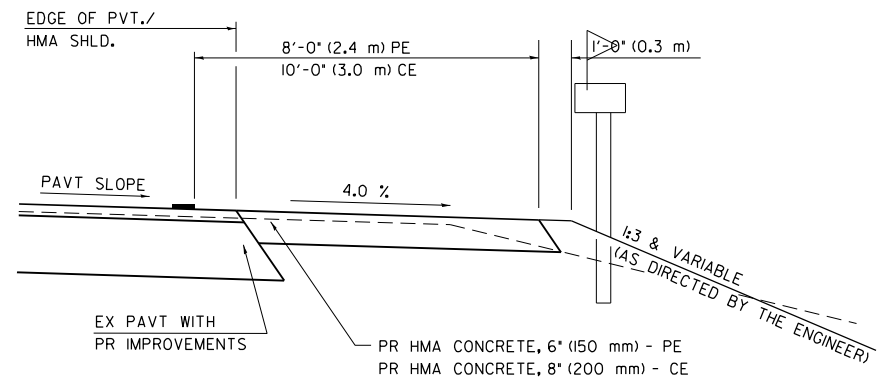


PLAN - MAILBOX TURNOUTS

PLAN - COMBINED MAILBOX TURNOUT WITH TRAILING OR LEADING ENTRANCE



SECTION X-X THRU MAILBOX TURNOUT
ALSO APPLIES TO MAILBOX TURNOUTS COMBINED WITH EX EARTH, AGGREGATE, OR HMA PE & FE
 (DETAIL APPLIES WHEN M.B. TURNOUT DOES NOT EXIST. IF EXISTING, TREAT SAME AS ENTRANCE.)



SECTION X-X THRU MAILBOX TURNOUT COMBINED WITH EX HMA CONC & PC CONC PE & CE
 (DETAIL APPLIES WHEN M.B. TURNOUT DOES NOT EXIST. IF EXISTING, TREAT SAME AS ENTRANCE.)

- NOTE 1 IF MORE THAN ONE MAILBOX IS PRESENT, DIMENSION FROM CENTER OF END MAILBOX.
- NOTE 2 FOR ENTRANCE LAYOUT DIMENSIONS AND SECTIONS A-A & E-E REFER TO THE SCHEDULES IN THE PLANS.
- NOTE 3 BOTH LT OR RT OFFSETS FOR MAILBOX SHOWN USE OFFSET DIMENSION PER SCHEDULE AND REFER TO LAYOUT SHOWN ON THE PLAN.

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

MODEL: 2D Sheet 4
 FILE NAME: 20210608.DWG - DOT 06 - PTB 199-030 - W08 - Christian County 72219.CADDetailCADSheet0672219-ent-details-06entppp02.dwg

ENT PPP.DGN



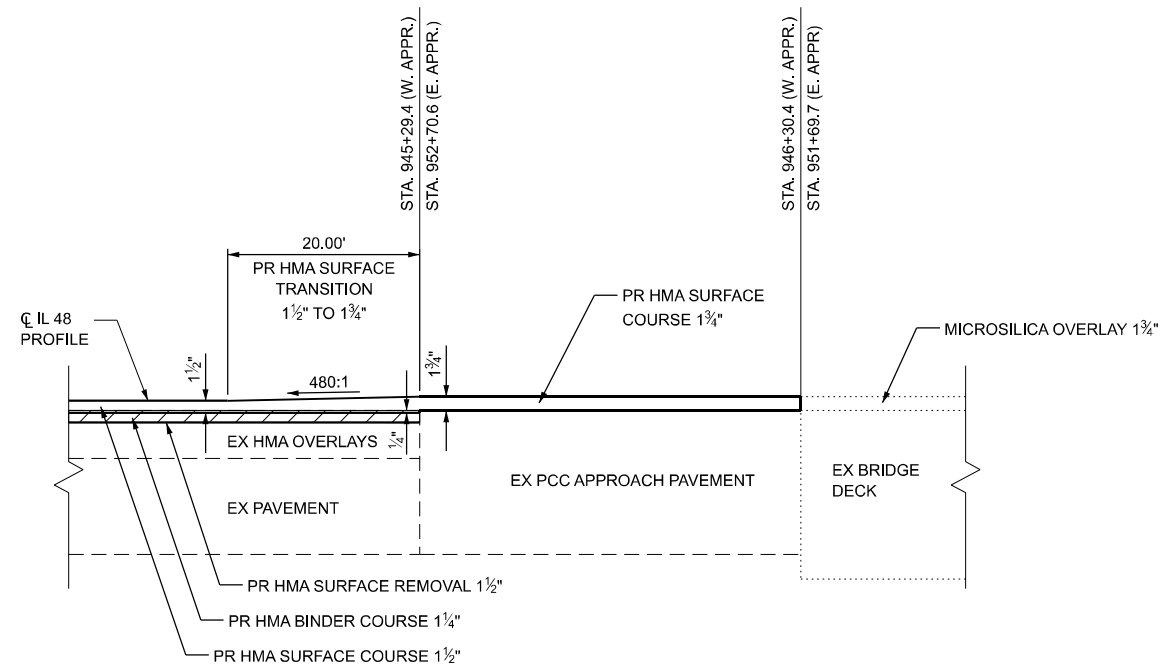
| | | |
|-------------------------------|--------------------------|-----------------------|
| USER NAME = msutheard | DESIGNED - | REVISED - 2/19/03 JCN |
| PLOT SCALE = 0.16666633 1/16" | DRAWN - CADD | REVISED - 4/01/04 JCN |
| PLOT DATE = 1/24/2024 | CHECKED - JCN | REVISED - |
| | DATE - FEBRUARY 23, 1999 | REVISED - |

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

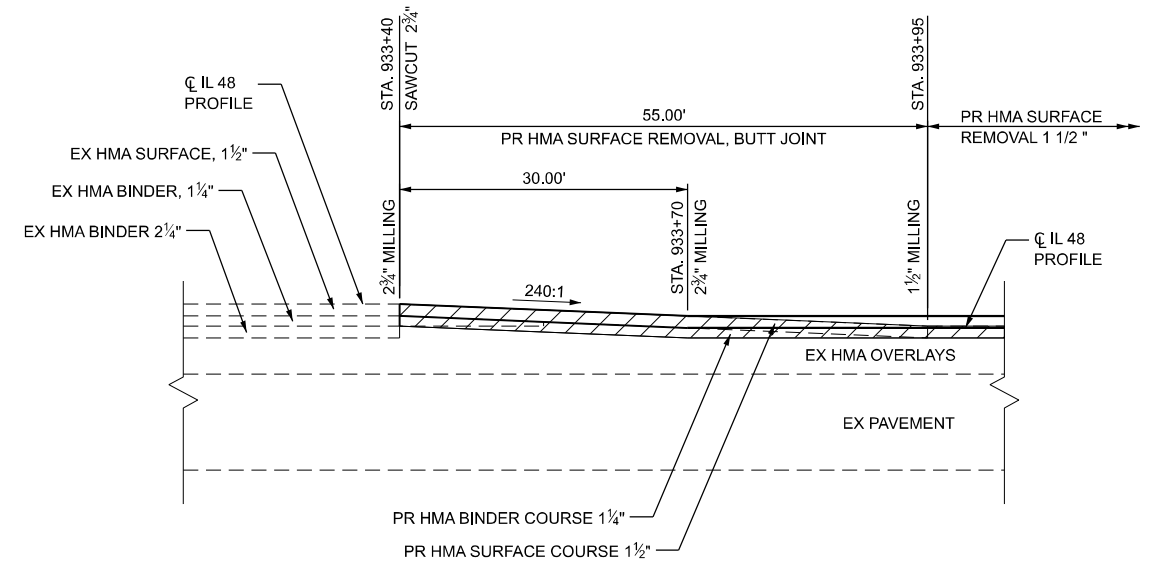
DIST. 6 DETAILS FOR RURAL/URBAN ENT., MAILBOX TURNOUT & SIDEROADS W/O CONC. GUTTER (3P-PROJ.)

SCALE: SHEET OF SHEETS STA. TO STA.

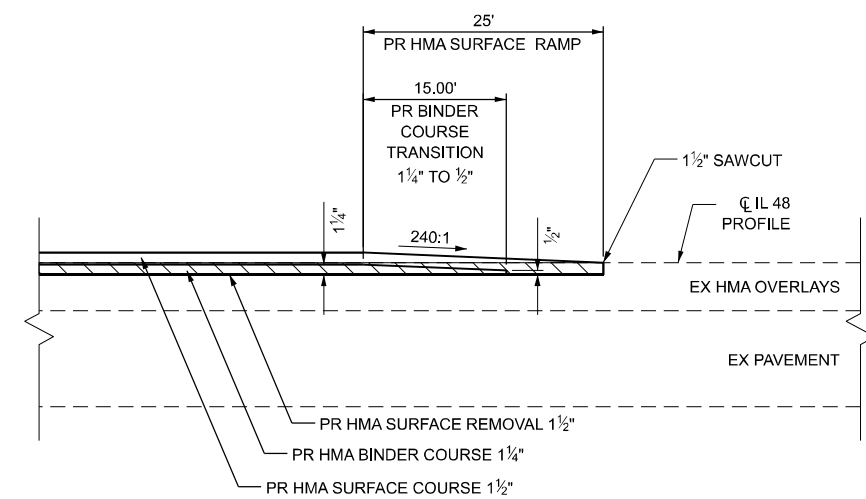
| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|--|---------------------------|-----------|--------------|-----------|
| 714 | (135X.B-1)BJR.BDR.135RS-8 | CHRISTIAN | 37 | 35 |
| CONTRACT NO. 72219 | | | | |
| ILLINOIS FED. AID PROJECT STP-BR-WJEG(300) | | | | |



APPROACH PAVEMENT HMA SURFACING
BOTH APPROACHES ARE THE SAME THROUGH MIRRORING



BEGINNING OF PROJECT, HMA RESURFACING



END OF PROJECT, HMA RESURFACING

ENT PPP.DGN

MODEL: 2D Sheet 4
FILE NAME: 20240608 IDOT D6 - PTB 19A-030 - W08 - Christian County 72219\CADD\Drawings\Drawings\20240608 IDOT D6 - PTB 19A-030 - W08 - Christian County 72219 - subdetails-transitions.dgn



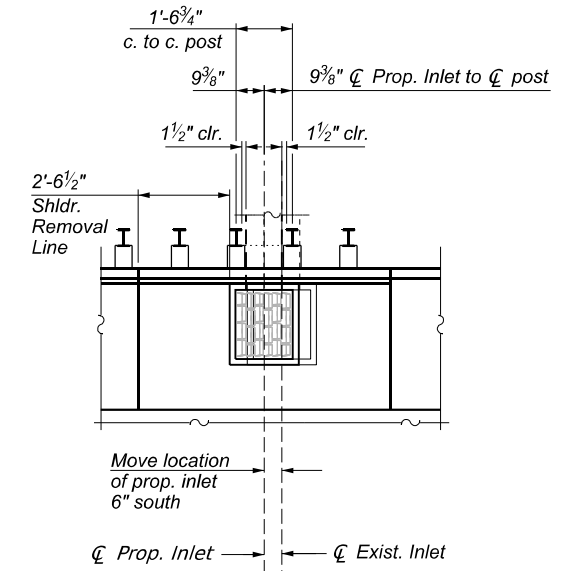
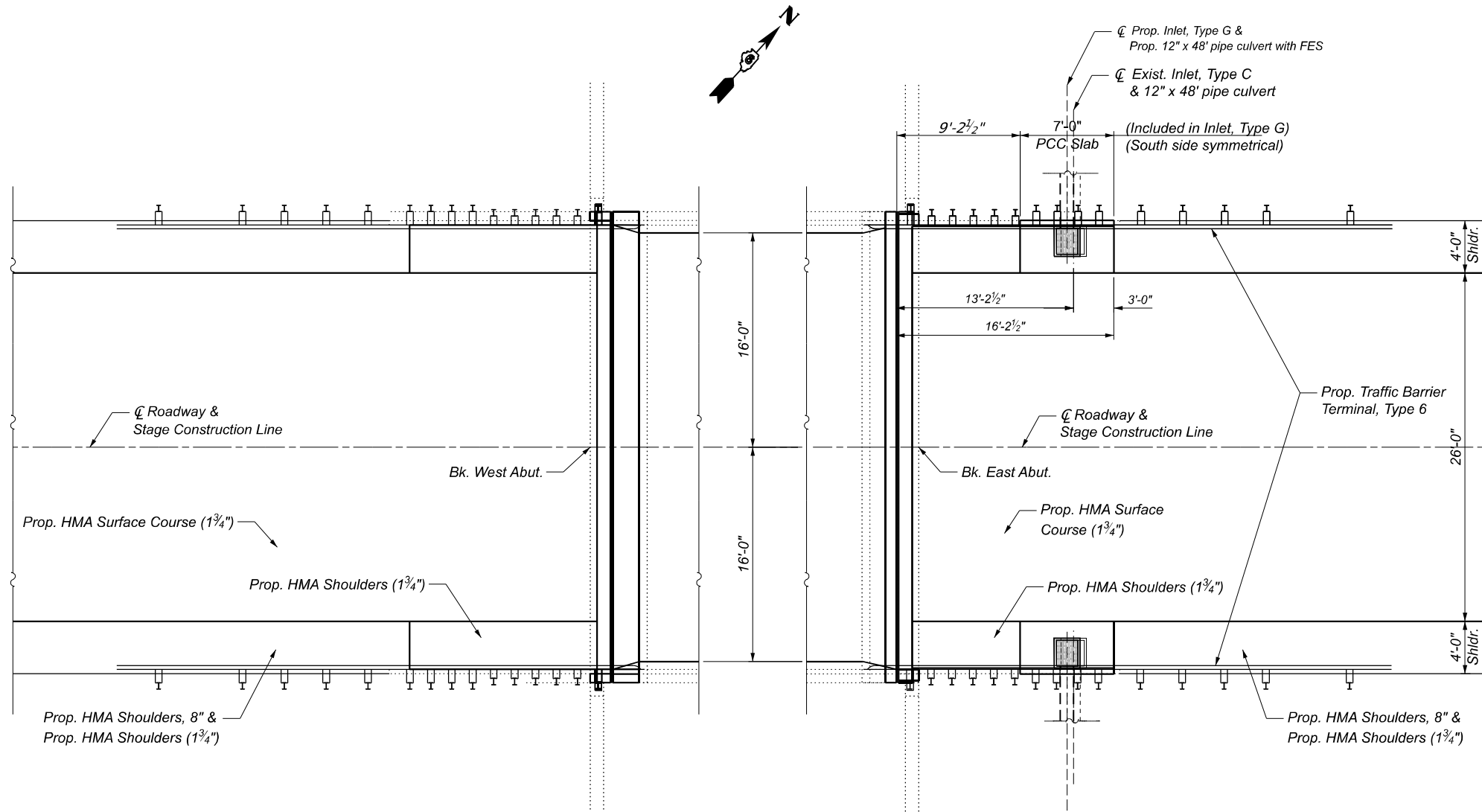
| | | |
|-------------------------------|------------|-----------|
| USER NAME = msutheard | DESIGNED - | REVISED - |
| DRAWN - | REVISED - | |
| PLOT SCALE = 0.16666633 1/16" | CHECKED - | REVISED - |
| PLOT DATE = 1/18/2024 | DATE - | REVISED - |

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

HMA RAMPS & MILLING TRANSITIONS

SCALE: SHEET OF SHEETS STA. TO STA.

| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|--|---------------------------|-----------|--------------|-----------|
| 714 | (135X.B-1)BJR,BDR,135RS-8 | CHRISTIAN | 37 | 36 |
| CONTRACT NO. 72219 | | | | |
| ILLINOIS FED. AID PROJECT STP-BR-WJEG(300) | | | | |



Notes:

- Any Proposed P.C.C. Slab placed within 5' of \varnothing Inlet will be paid for as incidental to Inlet Type G.
- See Schedules sheet for quantities.

MODEL: 2D Sheet 4
FILE NAME: 20240608 IDOT D6 - PTB 19A-030 - W08 - Christian County 72219\CADD\Drawings\Drawings\72219-01-01-01-01-01-01.dgn



| | |
|------------|-----------------------|
| USER NAME | = myoung |
| DESIGNED | - |
| DRAWN | - |
| REVIS | - |
| CHECKED | - |
| DATE | - |
| PLOT SCALE | = 0.16666633 1/16 in. |
| PLOT DATE | = 1/22/2024 |

| | |
|----------|---|
| DESIGNED | - |
| DRAWN | - |
| REVIS | - |
| CHECKED | - |
| DATE | - |

| | |
|----------|---|
| DESIGNED | - |
| DRAWN | - |
| REVIS | - |
| CHECKED | - |
| DATE | - |

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

APPROACH SLABS GUARDRAIL / INLET PLAN
STRUCTURE NO. 011-0032

SCALE: SHEET 000 OF SHEETS STA. TO STA.

| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|--|---------------------------|-----------|--------------|-----------|
| 714 | (135X.B-1)BJR.BDR.135RS-8 | CHRISTIAN | 37 | 37 |
| CONTRACT NO. 72219 | | | | |
| ILLINOIS FED. AID PROJECT STP-BR-WJEG(300) | | | | |