

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

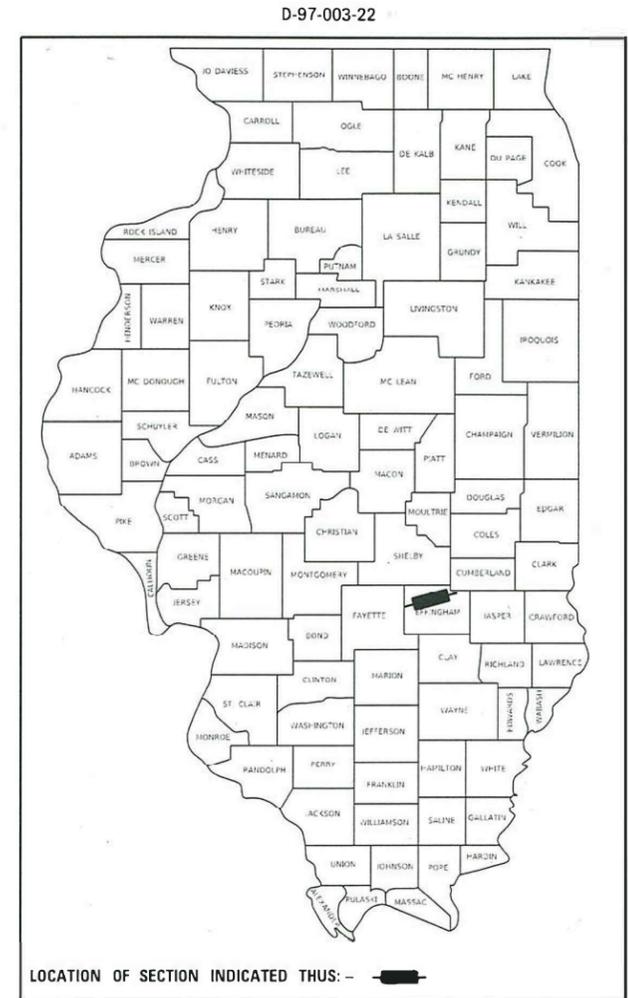
| FAU RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|----------|--------------------------|-----------|--------------------|-----------|
| 8357 | D7 BRIDGE REPAIRS 2023-4 | EFFINGHAM | 25 | 1 |
| | | ILLINOIS | CONTRACT NO. 74A90 | |

FOR INDEX OF SHEETS, SEE SHEET NO. 2
AADT = 6000 (2021)

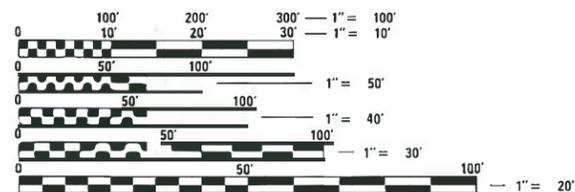
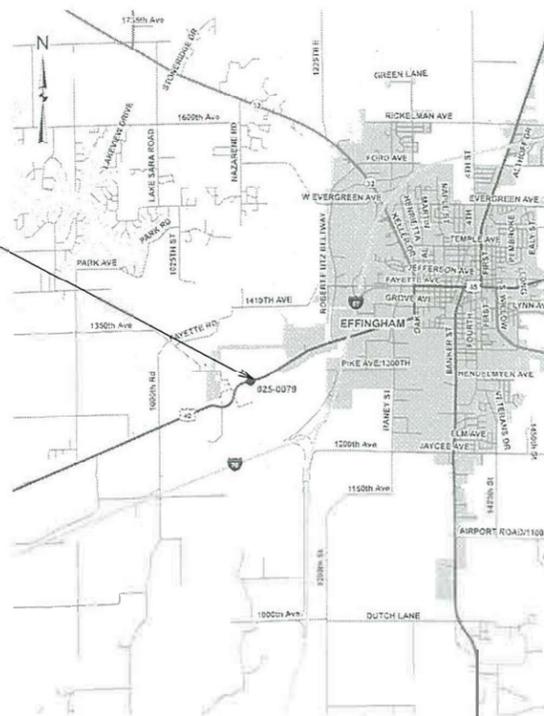
PROPOSED HIGHWAY PLANS

FAU ROUTE 8357 (US 40)
SECTION D7 BRIDGE REPAIRS 2023-4
PROJECT HBFP-LR84(854)
BRIDGE REPAIR
EFFINGHAM COUNTY

C-97-017-22



LOCATION OF PROJECT
STATION 1335 + 50



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 EXCAVATORS
1-800-892-0123
OR 811

PROJECT ENGINEER: DEBRA G. BARRETT
PROJECT MANAGER: DEBRA G. BARRETT

GROSS LENGTH = 230.08 FT. = 0.044 MILE
NET LENGTH = 230.08 FT. = 0.044 MILE

CONTRACT NO. 74A90

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUBMITTED July 21 20 22
Jeffrey P. Myerka REGIONAL ENGINEER

October 14, 2022
Scott A. Etkin
ENGINEER OF DESIGN AND ENVIRONMENT

October 14, 2022
Stephen M. Smith
DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS

GENERAL NOTES

THIS PROJECT IS LOCATED ON FAU 8357 (US 40), IN EFFINGHAM COUNTY, OVER THE LITTLE WABASH RIVER, 2 MILES WEST OF EFFINGHAM.

THE WORK ON THIS PROJECT CONSISTS OF BRIDGE DECK PATCHING, BRIDGE JOINT REPAIR & REPLACEMENT, AND BRIDGE DECK OVERLAY, TRAFFIC CONTROL, AND ANY OTHER WORK NECESSARY TO COMPLETE THIS SECTION. THIS WORK WILL BE COMPLETED UTILIZING STAGE CONSTRUCTION.

TEMPORARY CONCRETE BARRIER WILL NOT BE ALLOWED ON THE PAVEMENT BETWEEN DECEMBER 1 AND MARCH 1.

MATERIAL FOR AGGREGATE WEDGE SHOULDER, TYPE B SHALL BE CRUSHED STONE, CRUSHED CONCRETE OR RAP.

QUANTITIES FOR PAINT PAVEMENT MARKING - LINE 4" CONSISTS OF 212 FEET OF YELLOW, 1692 FEET OF WHITE.

A UNIFORMLY STRAIGHT SAW CUT SHALL BE MADE AT LOCATIONS WHERE PROPOSED NEW CONSTRUCTION WILL ABUT EXISTING HOT-MIX ASPHALT SURFACES. THE SAW CUT SHALL BE MADE FULL DEPTH THROUGH THE EXISTING SURFACE. THIS WORK WILL BE CONSIDERED INCLUDED IN THE COST OF THE CONTRACT ITEMS INVOLVED AND NO EXTRA COMPENSATION WILL BE ALLOWED.

BASE COURSE SHALL INCLUDE ALL EXCAVATION FOR CONSTRUCTION OF THE BASE COURSE. THE BASE COURSE SHALL REMAIN IN PLACE AT THE CONCLUSION OF THE JOB.

INDEX OF SHEETS

| <u>SHEET NO.</u> | <u>ITEM</u> |
|------------------|--|
| 1 | COVER SHEET |
| 2 | GENERAL NOTES, INDEX OF SHEETS & LIST OF STANDARDS |
| 3-4 | SUMMARY OF QUANTITIES |
| 5 | TYPICAL CROSS SECTION |
| 6-11 | STAGING DETAILS |
| 12-21 | BRIDGE PLANS |
| 22-25 | DISTRICT DETAILS |

THE FOLLOWING STANDARDS ARE A PART OF THESE PLANS AND ARE INCLUDED FOLLOWING THE LAST NUMBERED SHEET OF THE PLANS.

| <u>STD. NO.</u> | <u>DESCRIPTION</u> |
|-----------------|---|
| 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 |
| 701001-02 | OFF-ROAD OPERATIONS, 2L, 2W, MORE THAN 15' AWAY |
| 701006-05 | OFF-ROAD OPERATIONS, 2L, 2W, 15' TO 24" FROM PAVEMENT EDGE |
| 701011-04 | OFF-ROAD MOVING OPERATIONS, 2L, 2W, DAY ONLY |
| 701201-05 | LANE CLOSURE, 2L, 2W, DAY ONLY, FOR SPEEDS >= 45 MPH |
| 701301-04 | LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS |
| 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 |
| 701901-08 | TRAFFIC CONTROL DEVICES |
| 704001-08 | TEMPORARY CONCRETE BARRIER |
| 780001-05 | TYPICAL PAVEMENT MARKINGS |

MODEL: PROBLENAME\$
FILE NUMBER: \$FILE\$

| | | |
|------------------------|------------|-----------|
| USER NAME = \$USER\$ | DESIGNED - | REVISED - |
| | DRAWN - | REVISED - |
| PLOT SCALE = \$SCALE\$ | CHECKED - | REVISED - |
| PLOT DATE = \$DATE\$ | DATE - | REVISED - |

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**GENERAL NOTES, INDEX OF SHEETS
& LIST OF STANDARDS**

SCALE: SHEET 1 OF 1 SHEETS STA. TO STA.

| F.A.U. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------------|--------------------------|-----------|--------------------|-----------|
| 8357 | D7 BRIDGE REPAIRS 2023-4 | EFFINGHAM | 25 | 2 |
| ILLINOIS FED. AID PROJECT | | | CONTRACT NO. 74A90 | |

REV SEP

80% FED
20% STATE
URBAN

80% FED
20% STATE
URBAN

| SUMMARY OF QUANTITIES | | | TOTAL QUANTITIES | CONSTRUCTION TYPE CODE | | |
|-----------------------|--|--------|------------------|------------------------|--|--|
| CODE NO | ITEM | UNIT | | 0047 | | |
| 35300300 | PORTLAND CEMENT CONCRETE BASE COURSE 8" | SO YD | 521 | 521 | | |
| 44004250 | PAVED SHOULDER REMOVAL | SO YD | 271 | 271 | | |
| 48102100 | AGGREGATE WEDGE SHOULDER, TYPE B | TON | 14 | 14 | | |
| 50102400 | CONCRETE REMOVAL | CU YD | 7.6 | 7.6 | | |
| 50300255 | CONCRETE SUPERSTRUCTURE | CU YD | 7.4 | 7.4 | | |
| 50300260 | BRIDGE DECK GROOVING | SO YD | 915 | 915 | | |
| 50300300 | PROTECTIVE COAT | SO YD | 985 | 985 | | |
| 50800205 | REINFORCEMENT BARS, EPOXY COATED | POUND | 940 | 940 | | |
| 50800515 | BAR SPLICERS | EACH | 12 | 12 | | |
| 52000110 | PREFORMED JOINT STRIP SEAL | FOOT | 84 | 84 | | |
| 67000400 | ENGINEER'S FIELD OFFICE, TYPE A | CAL MO | 4 | 4 | | |
| 67100100 | MOBILIZATION | L SUM | 1 | 1 | | |
| 70100405 | TRAFFIC CONTROL AND PROTECTION, STANDARD | EACH | 1 | 1 | | |
| | 701321 | | | | | |

| SUMMARY OF QUANTITIES | | | TOTAL QUANTITIES | CONSTRUCTION TYPE CODE | | |
|-----------------------|---|--------|------------------|------------------------|--|--|
| CODE NO | ITEM | UNIT | | 0047 | | |
| 70100450 | TRAFFIC CONTROL AND PROTECTION, STANDARD | L SUM | 1 | 1 | | |
| | 701201 | | | | | |
| 70100500 | TRAFFIC CONTROL AND PROTECTION, STANDARD | L SUM | 1 | 1 | | |
| | 701326 | | | | | |
| 70106500 | TEMPORARY BRIDGE TRAFFIC SIGNALS | EACH | 1 | 1 | | |
| 70106700 | TEMPORARY RUMBLE STRIPS | EACH | 6 | 6 | | |
| 70107005 | PAVEMENT MARKING BLACKOUT TAPE, 5" | FOOT | 1904 | 1904 | | |
| 70107025 | CHANGEABLE MESSAGE SIGN | CAL DA | 28 | 28 | | |
| 70300150 | SHORT TERM PAVEMENT MARKING REMOVAL | SO FT | 794 | 794 | | |
| 70400100 | TEMPORARY CONCRETE BARRIER | FOOT | 487.5 | 487.5 | | |
| 70400125 | PINNING TEMPORARY CONCRETE BARRIER | EACH | 24 | 24 | | |
| 70400200 | RELOCATE TEMPORARY CONCRETE BARRIER | FOOT | 462.5 | 462.5 | | |
| 70600250 | IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE), TEST LEVEL 3 | EACH | 2 | 2 | | |
| 70600350 | IMPACT ATTENUATORS, RELOCATE (NON-REDIRECTIVE), TEST LEVEL 3 | EACH | 2 | 2 | | |

MODEL NUMBER
FILE NAME: ST115

| | | |
|-----------------------|------------|-----------|
| USER NAME = \$USERS | DESIGNED - | REVISED - |
| | DRAWN - | REVISED - |
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| PLOT DATE = \$DATES | DATE - | REVISED - |

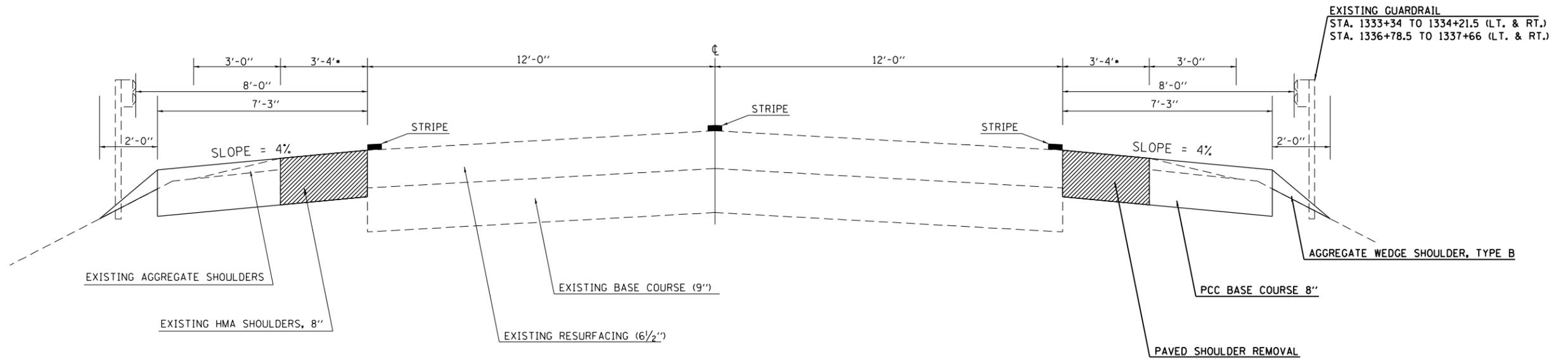
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: SHEET 1 OF 2 SHEETS STA. TO STA.

| | | | | |
|---------------------------|--------------------------|-----------|--------------------|-----------|
| F.A.U. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 8357 | D7 BRIDGE REPAIRS 2023-4 | EFFINGHAM | 25 | 3 |
| ILLINOIS FED. AID PROJECT | | | CONTRACT NO. 74A90 | |

TYPICAL CROSS SECTION
 STATION 1332+67.00 TO STATION 1334+34.96
 STATION 1336+85.04 TO STATION 1338+40.00



NOTE: NOT DRAWN TO SCALE

• EXISTING HMA SHOULDER VARIES FROM 3' TO 4'
 FROM STATION 1333+33 TO STATION 1333+50

MODEL: 140821NAMFES
 FILE NAME: 271213

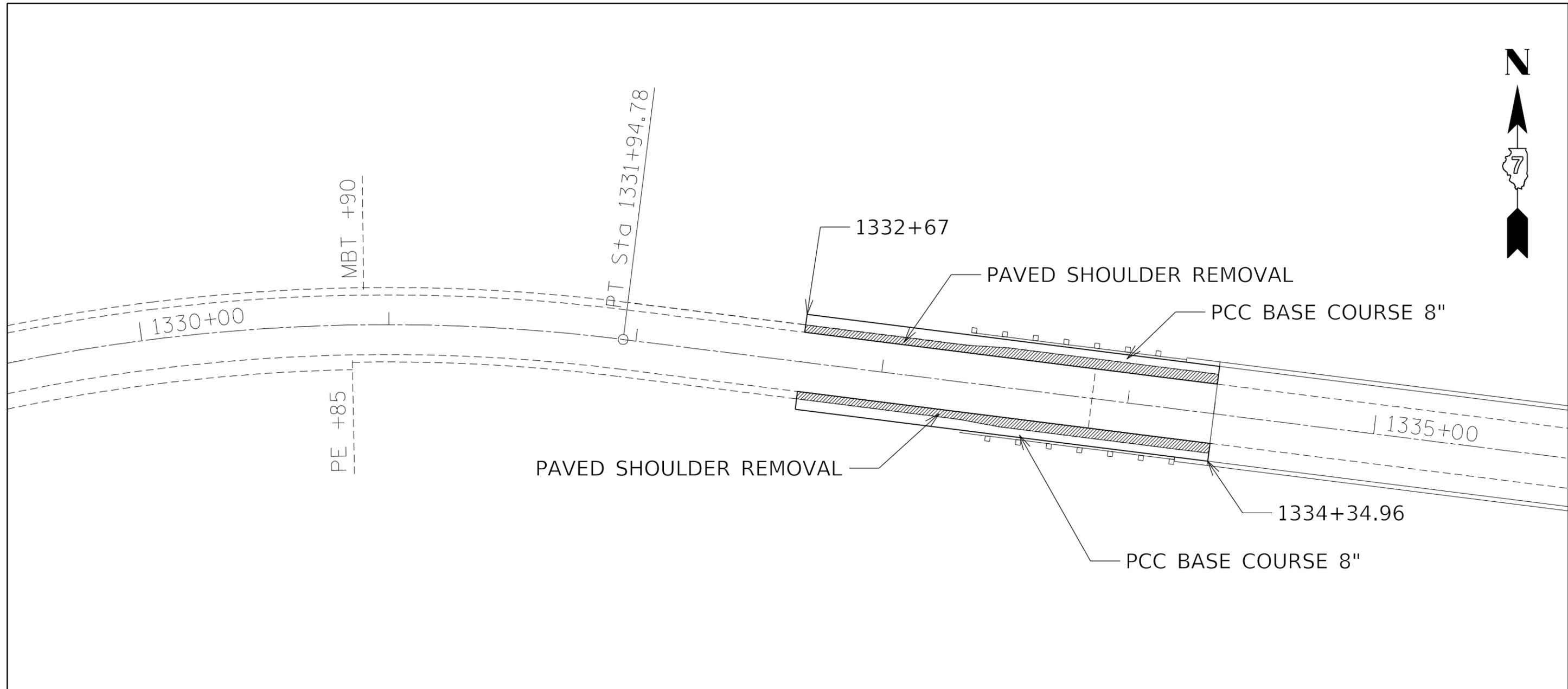
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| | DRAWN - | REVISED - |
| PLOT SCALE = \$SCALES | CHECKED - | REVISED - |
| PLOT DATE = \$DATES | DATE - | REVISED - |

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

TYPICAL CROSS SECTION

SCALE: SHEET 1 OF 1 SHEETS STA. TO STA.

| F.A.U. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------------|--------------------------|-----------|--------------------|-----------|
| 8357 | D7 BRIDGE REPAIRS 2023-4 | EFFINGHAM | 25 | 5 |
| ILLINOIS FED. AID PROJECT | | | CONTRACT NO. 74A90 | |



PAVED SHOULDER REMOVAL

| | STATION | TO | STATION | LENGTH | WIDTH | AREA (SQ YDS) |
|----------------|------------|----|------------|--------|-------|---------------------|
| LT. | 1332+67.00 | - | 1334+34.96 | 167.96 | VAR. | 66.3 |
| RT. | 1332+67.00 | - | 1334+34.96 | 167.96 | VAR. | 66.3 |
| TOTAL = | | | | | | 132.6 SQ YDS |

PCC BASE COURSE, 8"

| | STATION | TO | STATION | LENGTH | WIDTH | AREA (SQ YDS) |
|----------------|------------|----|------------|--------|-------|---------------------|
| LT. | 1332+67.00 | - | 1334+34.96 | 167.96 | 7.25 | 135.3 |
| RT. | 1332+67.00 | - | 1334+34.96 | 167.96 | 7.25 | 135.3 |
| TOTAL = | | | | | | 270.6 SQ YDS |

AGGREGATE WEDGE SHOULDER, TYPE B

| | STATION | TO | STATION | LENGTH | WIDTH | TONS |
|----------------|------------|----|------------|--------|-------|-----------------|
| LT. | 1332+67.00 | - | 1334+34.96 | 167.96 | 2.00 | 3.5 |
| RT. | 1332+67.00 | - | 1334+34.96 | 167.96 | 2.00 | 3.5 |
| TOTAL = | | | | | | 7.0 TONS |

MODEL NUMBER: 11/15/16
FILE NAME: 071116

| | | |
|-----------------------|------------|-----------|
| USER NAME = \$USERS | DESIGNED - | REVISED - |
| | DRAWN - | REVISED - |
| PLOT SCALE = \$SCALES | CHECKED - | REVISED - |
| PLOT DATE = \$DATES | DATE - | REVISED - |

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

PRE-STAGE DETAILS

SCALE: SHEET 1 OF 2 SHEETS STA. TO STA.

| F.A.U. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------------|--------------------------|-----------|--------------------|-----------|
| 8357 | D7 BRIDGE REPAIRS 2023-4 | EFFINGHAM | 25 | 6 |
| ILLINOIS FED. AID PROJECT | | | CONTRACT NO. 74A90 | |

PAVED SHOULDER REMOVAL

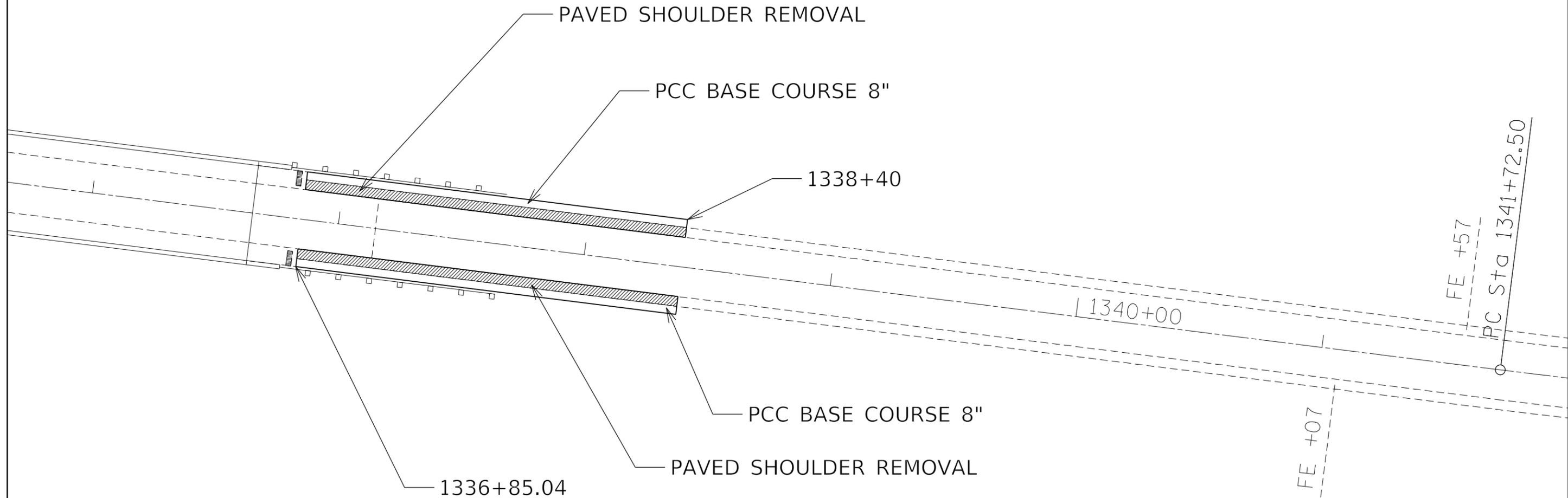
| | STATION | TO | STATION | LENGTH | WIDTH | AREA (SQ YDS) |
|---------|------------|----|------------|--------|-------|---------------|
| LT. | 1336+85.04 | - | 1338+40.00 | 154.96 | 4.00 | 68.9 |
| RT. | 1336+85.04 | - | 1338+40.00 | 154.96 | 4.00 | 68.9 |
| TOTAL = | | | | | | 137.8 SQ YDS |

PCC BASE COURSE, 8"

| | STATION | TO | STATION | LENGTH | WIDTH | AREA (SQ YDS) |
|---------|------------|----|------------|--------|-------|---------------|
| L.I. | 1336+85.04 | - | 1338+40.00 | 154.96 | 7.25 | 124.8 |
| RT. | 1336+85.04 | - | 1338+40.00 | 154.96 | 7.25 | 124.8 |
| TOTAL = | | | | | | 249.6 SQ YDS |

AGGREGATE WEDGE SHOULDER, TYPE B

| | STATION | TO | STATION | LENGTH | WIDTH | TONS |
|---------|------------|----|------------|--------|-------|----------|
| LT. | 1336+85.04 | - | 1338+40.00 | 154.96 | 2.00 | 3.2 |
| RT. | 1336+85.04 | - | 1338+40.00 | 154.96 | 2.00 | 3.2 |
| TOTAL = | | | | | | 6.4 TONS |



MODEL: \\MODELS\BMM\FILES\BMM\BMM.PLT

| | | |
|------------------------|------------|-----------|
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| | DRAWN - | REVISED - |
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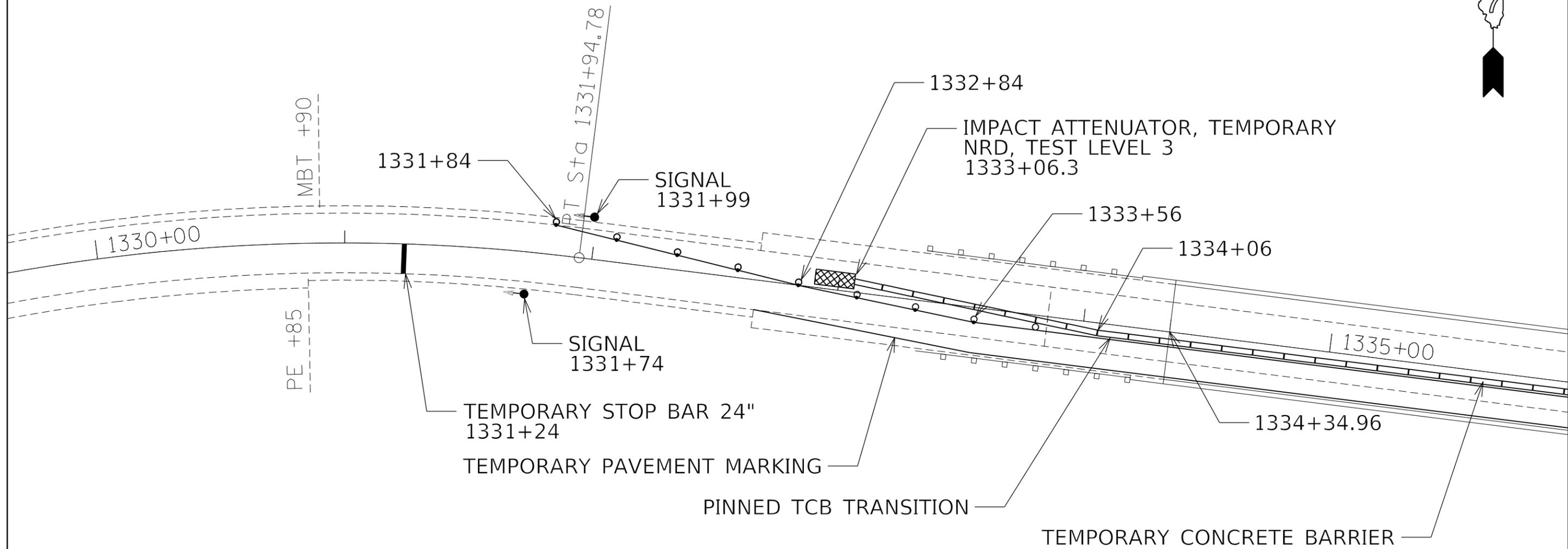
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

PRE-STAGE DETAILS

SCALE: SHEET 1 OF 2 SHEETS STA. TO STA.

| F.A.U. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------------|--------------------------|-----------|--------------|-----------|
| 8357 | D7 BRIDGE REPAIRS 2023-4 | EFFINGHAM | 25 | 7 |
| CONTRACT NO. 74A90 | | | | |
| ILLINOIS FED. AID PROJECT | | | | |

NOTE: SEE TRAFFIC CONTROL AND PROTECTION, STANDARD 701321 FOR INFORMATION NOT SHOWN ON THIS SHEET.



TEMPORARY CONCRETE BARRIER

| STATION | TO | STATION | LENGTH (FEET) |
|------------|----|------------|---------------|
| 1333+06.30 | - | 1334+06.00 | 100.00 |
| 1334+06.00 | - | 1336+93.50 | 287.50 |
| 1336+93.50 | - | 1337+93.20 | 100.00 |
| TOTAL = | | | 487.50 FEET |

IMPACT ATTENUATORS, TEMPORARY (NRD), TL3

| STATION | EACH |
|------------|-----------|
| 1333+06.30 | 1.00 |
| 1337+93.20 | 1.00 |
| TOTAL = | 2.00 EACH |

MODEL: \\MODELS\NAMES
FILE NAME: ST1.DWG

| | | |
|-----------------------|------------|-----------|
| USER NAME = \$USERS | DESIGNED - | REVISED - |
| | DRAWN - | REVISED - |
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| PLOT DATE = \$DATES | DATE - | REVISED - |

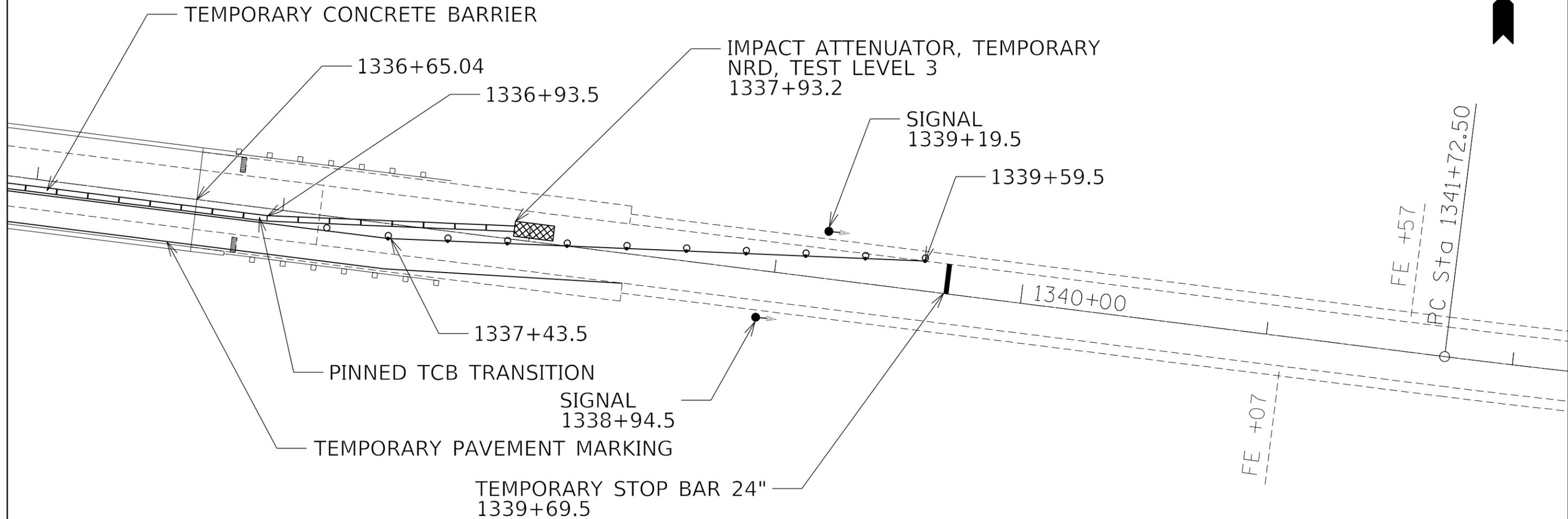
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

STAGE 1 DETAILS

SCALE: SHEET 1 OF 2 SHEETS STA. TO STA.

| F.A.U. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|--------------------|--------------------------|-----------|---------------------------|-----------|
| 8357 | D7 BRIDGE REPAIRS 2023-4 | EFFINGHAM | 25 | 8 |
| CONTRACT NO. 74A90 | | | ILLINOIS FED. AID PROJECT | |

NOTE: SEE TRAFFIC CONTROL AND PROTECTION, STANDARD 701321 FOR INFORMATION NOT SHOWN ON THIS SHEET.



MODEL: I:\MODELS\MAMES
FILE: I:\MAMES: ST1E15

| | | |
|-----------------------|------------|-----------|
| USER NAME = \$USERS | DESIGNED - | REVISED - |
| | DRAWN - | REVISED - |
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| PLOT DATE = \$DATES | DATE - | REVISED - |

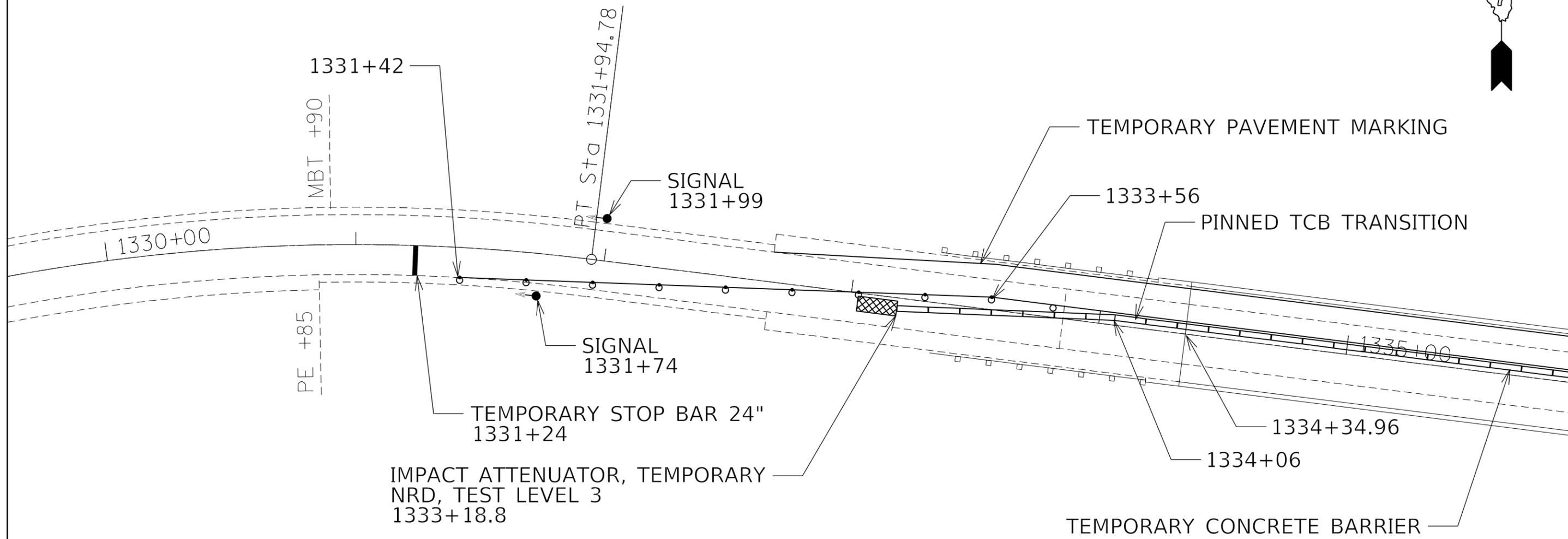
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

STAGE 1 DETAILS

SCALE: SHEET 2 OF 2 SHEETS STA. TO STA.

| F.A.U. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------------|--------------------------|-----------|--------------|-----------|
| 8357 | D7 BRIDGE REPAIRS 2023-4 | EFFINGHAM | 25 | 9 |
| CONTRACT NO. 74A90 | | | | |
| ILLINOIS FED. AID PROJECT | | | | |

NOTE: SEE TRAFFIC CONTROL AND PROTECTION, STANDARD 701321 FOR INFORMATION NOT SHOWN ON THIS SHEET.



RELOCATE TEMPORARY CONCRETE BARRIER

| STATION | TO | STATION | LENGTH (FEET) |
|------------|----|------------|---------------|
| 1333+18.80 | - | 1334+06.00 | 87.50 |
| 1334+06.00 | - | 1336+93.50 | 287.50 |
| 1336+93.50 | - | 1337+80.70 | 87.50 |
| TOTAL = | | | 462.50 FEET |

IMPACT ATTENUATORS, RELOCATE (NRD), TL3

| STATION | EACH |
|------------|-----------|
| 1333+18.80 | 1.00 |
| 1337+80.70 | 1.00 |
| TOTAL = | 2.00 EACH |

MODEL NUMBER: MMS
FILE NAME: ST15

| | | |
|-----------------------|------------|-----------|
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| | DRAWN - | REVISED - |
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| PLOT DATE = \$DATES | DATE - | REVISED - |

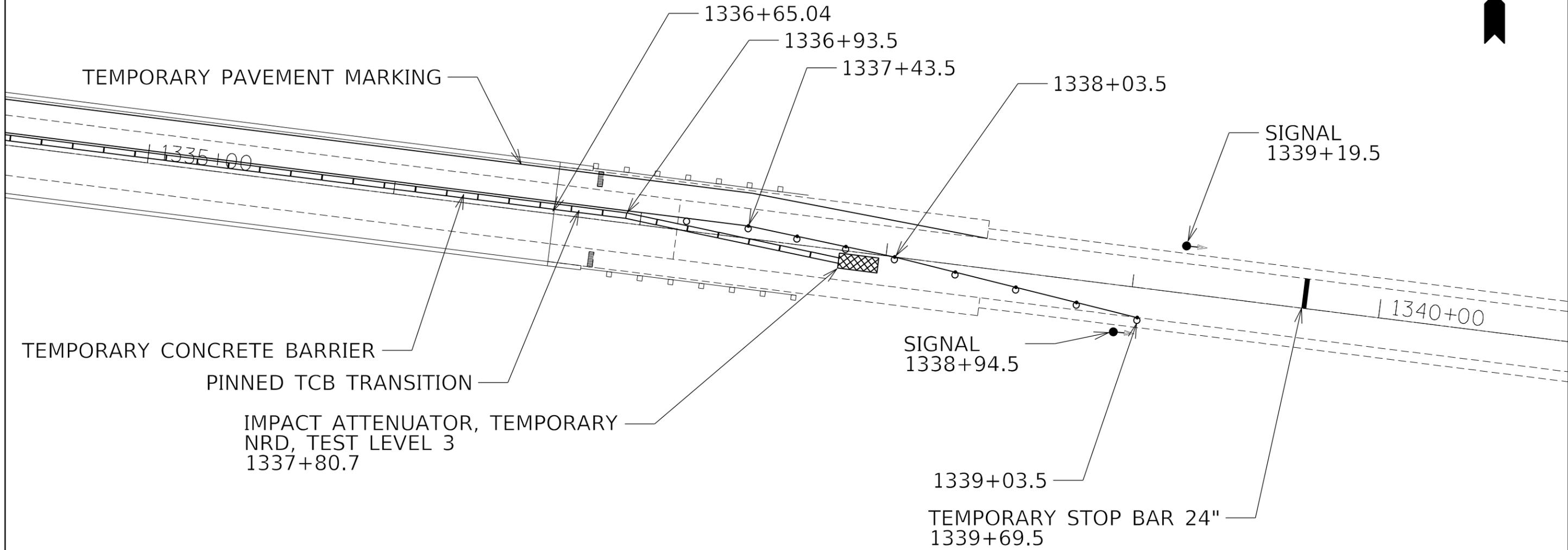
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STAGE 2 DETAILS

SCALE: SHEET 1 OF 2 SHEETS STA. TO STA.

| F.A.U. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------------|--------------------------|-----------|--------------|-----------|
| 8357 | D7 BRIDGE REPAIRS 2023-4 | EFFINGHAM | 25 | 10 |
| CONTRACT NO. 74A90 | | | | |
| ILLINOIS FED. AID PROJECT | | | | |

NOTE: SEE TRAFFIC CONTROL AND PROTECTION, STANDARD 701321 FOR INFORMATION NOT SHOWN ON THIS SHEET.



MODEL: I:\MODELS\MAMES
FILE: MAMES_071123

| | | |
|------------------------|------------|-----------|
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| | DRAWN - | REVISED - |
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| PLOT DATE = \$DATE\$ | DATE - | REVISED - |

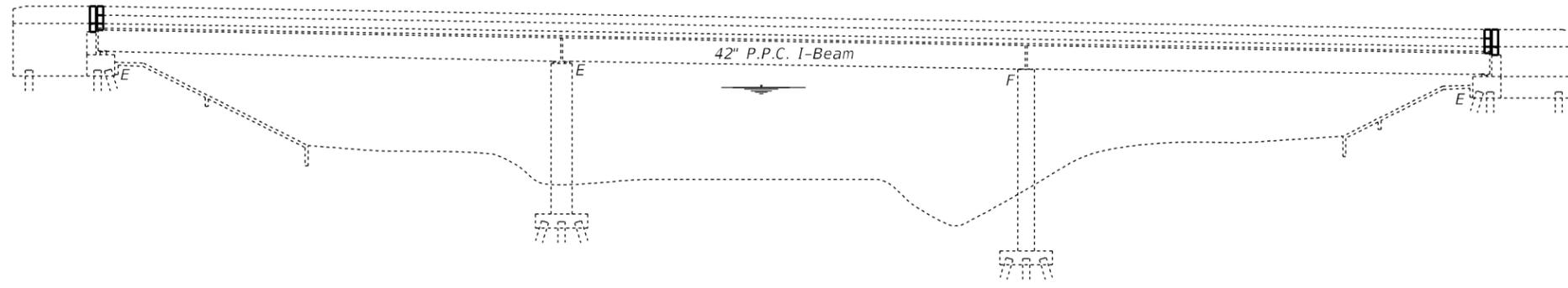
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

STAGE 2 DETAILS

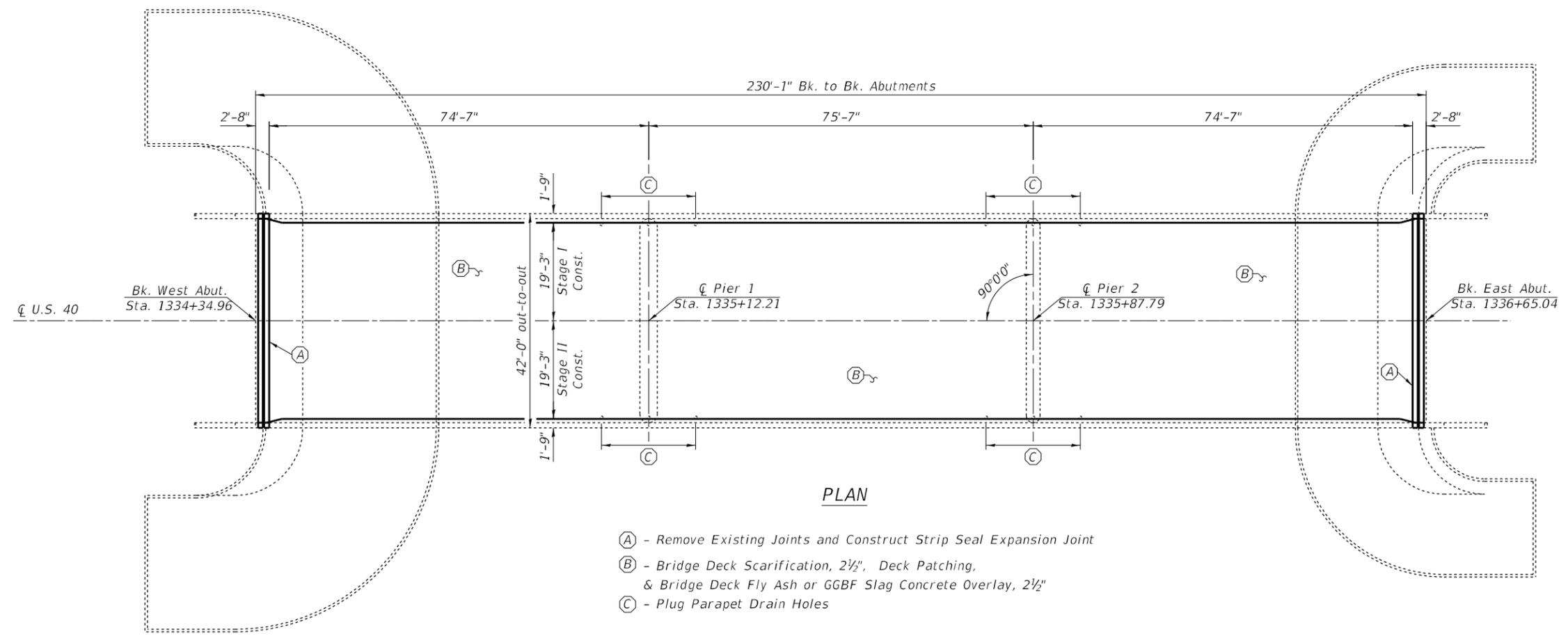
SCALE: SHEET 2 OF 2 SHEETS STA. TO STA.

| F.A.U. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------------|--------------------------|-----------|--------------|-----------|
| 8357 | D7 BRIDGE REPAIRS 2023-4 | EFFINGHAM | 25 | 11 |
| CONTRACT NO. 74A90 | | | | |
| ILLINOIS FED. AID PROJECT | | | | |

SN. 025-0079 carries U.S. Rte 40 (FAU 8357) over Little Wabash River. The existing three span structure with P.P.C I-beams was constructed in 1977. The proposed project consists of replacement of the expansion joints with new strip seals, bridge deck scarification, deck patching, and bridge deck overlay.



ELEVATION



PLAN

- (A) - Remove Existing Joints and Construct Strip Seal Expansion Joint
- (B) - Bridge Deck Scarification, 2 1/2", Deck Patching, & Bridge Deck Fly Ash or GGBF Slag Concrete Overlay, 2 1/2"
- (C) - Plug Parapet Drain Holes

MODEL: 1400ELEM.MXS
FILE NAME: 025.SHE1

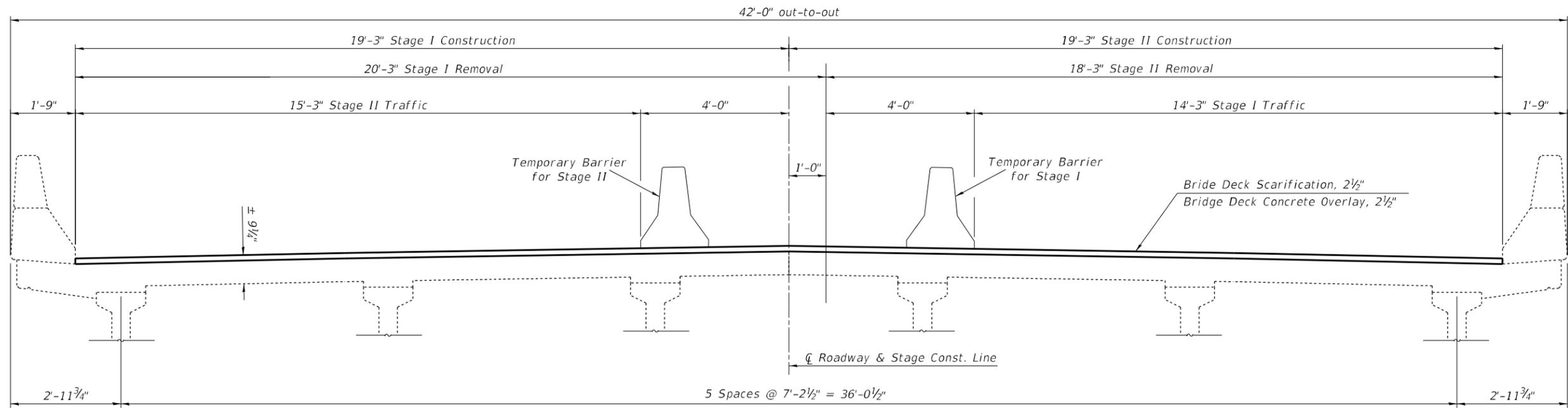
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| USER NAME = \$USERS | DESIGNED - T. Walk | REVISED - |
| | DRAWN - T. Walk | REVISED - |
| PLOT SCALE = \$SCALE\$ | CHECKED - D. Macklin | REVISED - |
| PLOT DATE = \$DATE\$ | DATE - Oct, 2021 | REVISED - |

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**GENERAL PLAN & ELEVATION
S.N. 025-0079**

SCALE: SHEET 1 OF 10 SHEETS STA. TO STA.

| | | | | |
|---------------------------|--------------------------|-----------|--------------------|-----------|
| F.A.U. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 8357 | D7 BRIDGE REPAIRS 2023-4 | EFFINGHAM | 25 | 12 |
| ILLINOIS FED. AID PROJECT | | | CONTRACT NO. 74A90 | |



STAGE CONSTRUCTION DETAIL
Looking East

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.

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 operations shall be replaced with an approved bar splicer or anchorage system. Cost included with CONCRETE REMOVAL.

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

Protective Coat to be applied to areas of new concrete only, including bridge deck concrete overlay.

Areas of deck repairs shown are estimated. The Engineer shall show actual locations of deck repairs on as-built plans.

Full depth deck slab repairs performed in the exterior bays of the bridge deck (between the parapet walls and the first interior beams) shall be limited to individual lengths no greater than 10'. In these portions of the deck, repair areas longer than 10' shall be divided into segments not greater than 10' in length, and the segments shall be poured in alternating sequence. Subsequent segments repaired in sequence shall not be removed until 72 hours shall have elapsed from the end of the previous, adjacent pour, and the adjacent pour shall have attained a minimum modulus of rupture of 650psi.

The Contractor shall use extreme care during concrete removal to prevent damage to the precast concrete I-beams.

TOTAL BILL OF MATERIAL

| ITEM | UNIT | QUANTITY |
|---|---------|----------|
| Concrete Removal | Cu. Yd. | 7.6 |
| Concrete Superstructure | Cu. Yd. | 7.4 |
| Reinforcement Bars, Epoxy Coated | Pound | 940 |
| Bar Splicers | Each | 12 |
| Bridge Deck Grooving | Sq. Yd. | 915 |
| Bridge Deck Scarification, 2 1/2" | Sq. Yd. | 965 |
| Bridge Deck Fly Ash or GGBF Slag Concrete Overlay, 2 1/2" | Sq. Yd. | 965 |
| Preformed Joint Strip Seal | Foot | 84 |
| Protective Coat | Sq. Yd. | 985 |
| Deck Slab Repair (Full Depth, Type I) | Sq. Yd. | 10 |
| Deck Slab Repair (Full Depth, Type II) | Sq. Yd. | 15 |

MODEL: 4400ELEM.MXS
FILE NAME: ST1E15

| | | |
|-----------------------|----------------------|-----------|
| USER NAME = \$USERS | DESIGNED - T. Walk | REVISED - |
| | DRAWN - T. Walk | REVISED - |
| PLOT SCALE = \$SCALES | CHECKED - D. Macklin | REVISED - |
| PLOT DATE = \$DATES | DATE - Oct, 2021 | REVISED - |

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**STAGE CONSTRUCTION, GENERAL NOTES, &
BILL OF MATERIALS S.N. 025-0079**

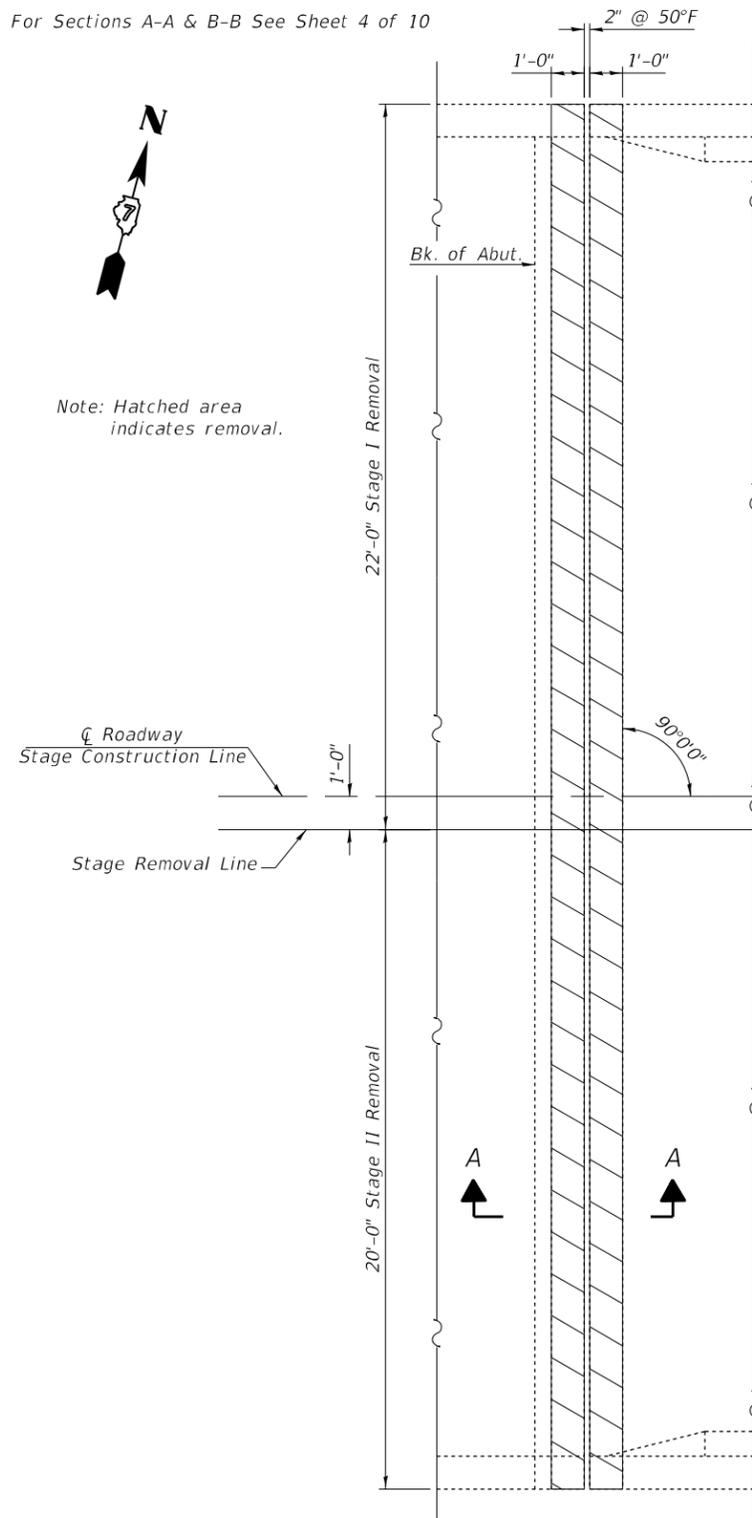
SCALE: SHEET 2 OF 10 SHEETS STA. TO STA.

| | | | | |
|-------------|--------------------------|-----------|--------------------|-----------|
| F.A.U. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 8357 | D7 BRIDGE REPAIRS 2023-4 | EFFINGHAM | 25 | 13 |
| | | | CONTRACT NO. 74A90 | |
| | | ILLINOIS | FED. AID PROJECT | |

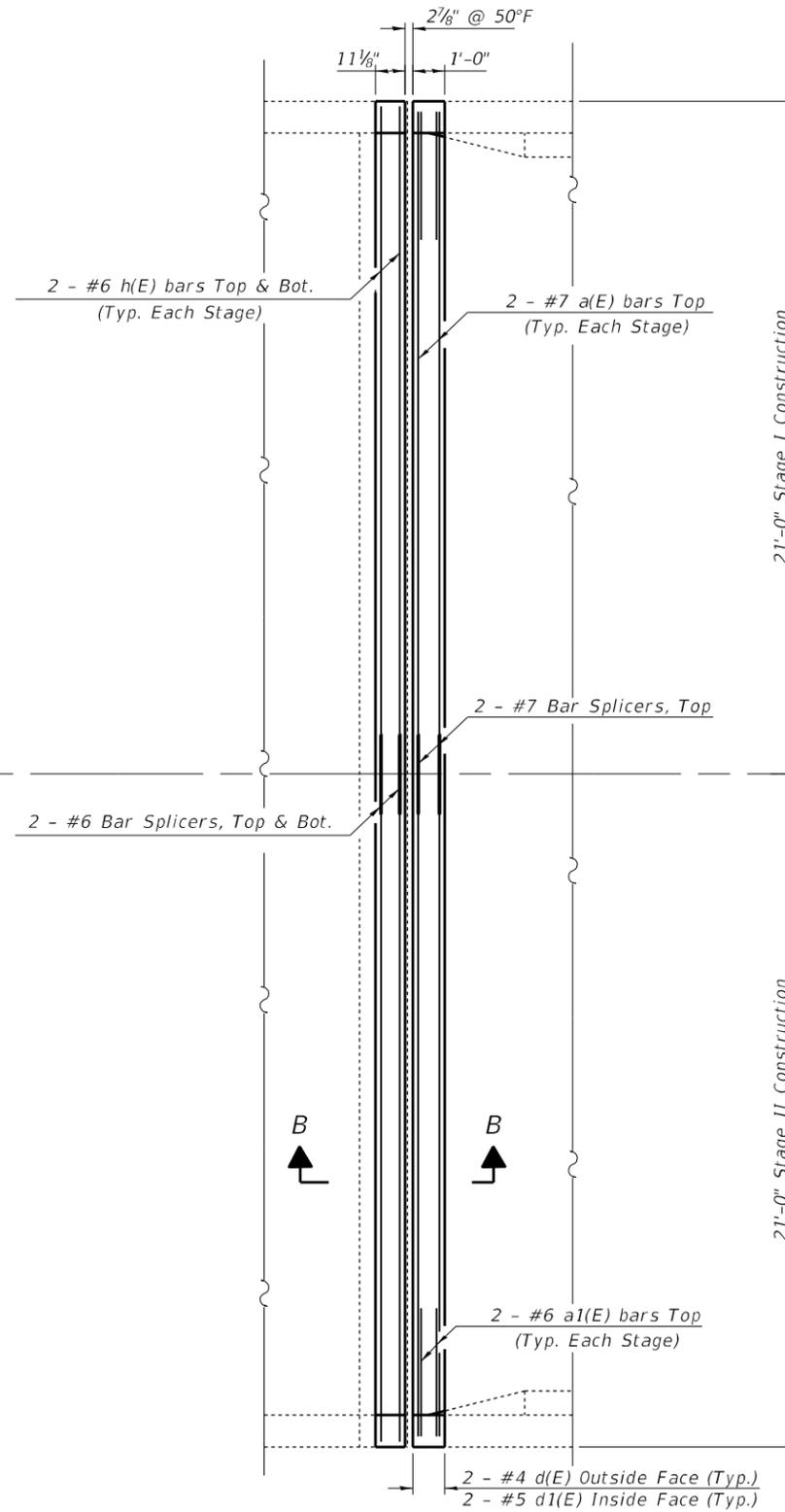
For Sections A-A & B-B See Sheet 4 of 10



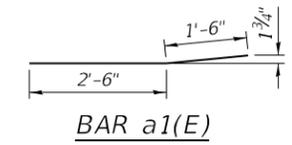
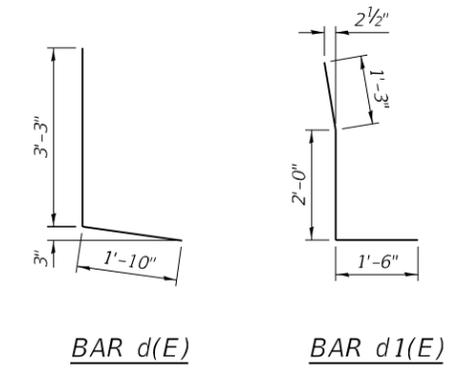
Note: Hatched area indicates removal.



REMOVAL PLAN
West Abutment Shown
East Abutment Similar



REINFORCEMENT PLAN
West Abutment Shown
East Abutment Similar



BILL OF MATERIAL - TWO ABUTMENTS

| Bar | No. | Size | Length | Shape |
|----------------------------------|-----|---------|----------|-------|
| a(E) | 8 | #7 | 20'-0" | — |
| a1(E) | 8 | #6 | 4'-0" | — |
| h(E) | 16 | #6 | 20'-8" | — |
| d(E) | 8 | #4 | 5'-1" | L |
| d1(E) | 8 | #5 | 4'-9" | L |
| ITEM | | UNIT | QUANTITY | |
| Concrete Removal | | Cu. Yd. | 7.6 | |
| Concrete Superstructure | | Cu. Yd. | 7.4 | |
| Reinforcement Bars, Epoxy Coated | | Pound | 940 | |
| Bar Splicers | | Each | 12 | |

MODEL: 14082618M185
FILE: 140826185.DWG

| | | |
|-----------------------|----------------------|-----------|
| USER NAME = \$USERS | DESIGNED - T. Walk | REVISED - |
| PLOT SCALE = \$SCALES | DRAWN - T. Walk | REVISED - |
| PLOT DATE = \$DATES | CHECKED - D. Macklin | REVISED - |
| | DATE - Oct, 2021 | REVISED - |

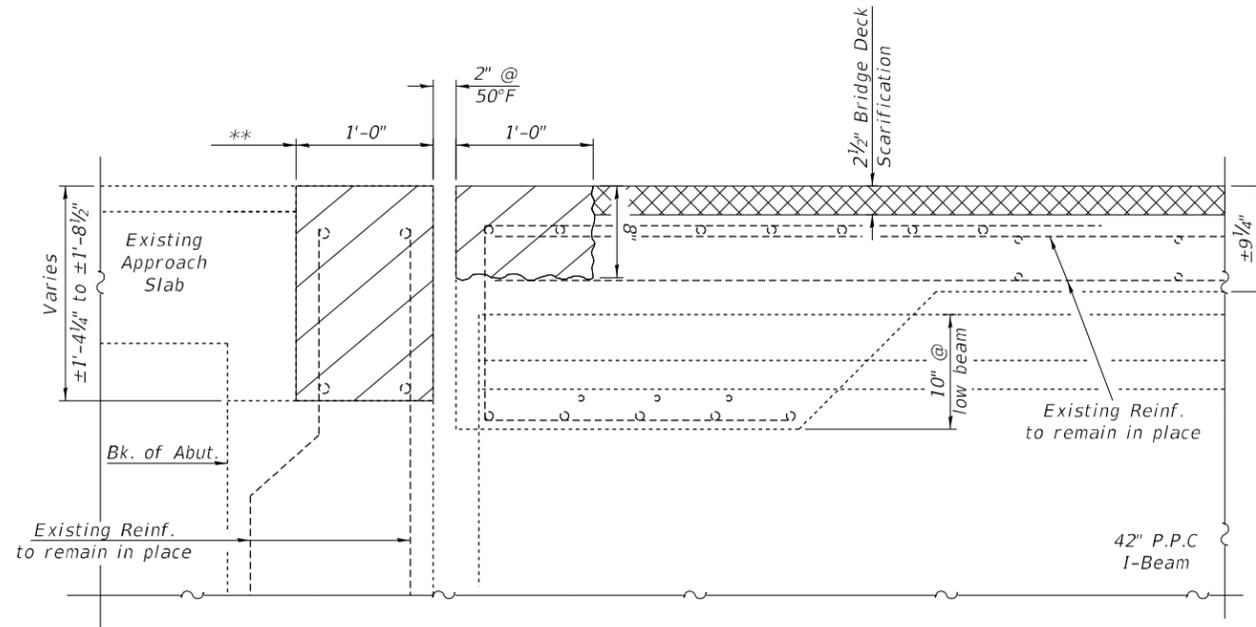
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**EXPANSION JOINT REPLACEMENT DETAILS
S.N. 025-0079**

SCALE: SHEET 3 OF 10 SHEETS STA. TO STA.

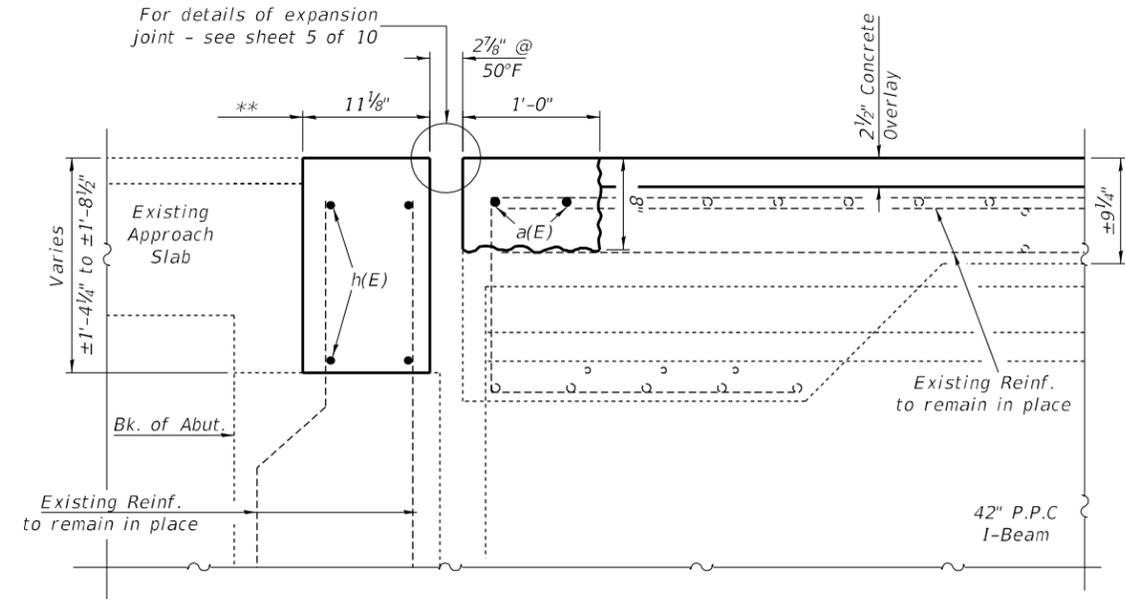
| | | | | |
|---------------------------|--------------------------|-----------|--------------------|-----------|
| F.A.U. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 8357 | D7 BRIDGE REPAIRS 2023-4 | EFFINGHAM | 25 | 14 |
| | | | CONTRACT NO. 74A90 | |
| ILLINOIS FED. AID PROJECT | | | | |

Note: Hatched areas indicates Concrete removal
Cross Hatched areas indicates Scarification

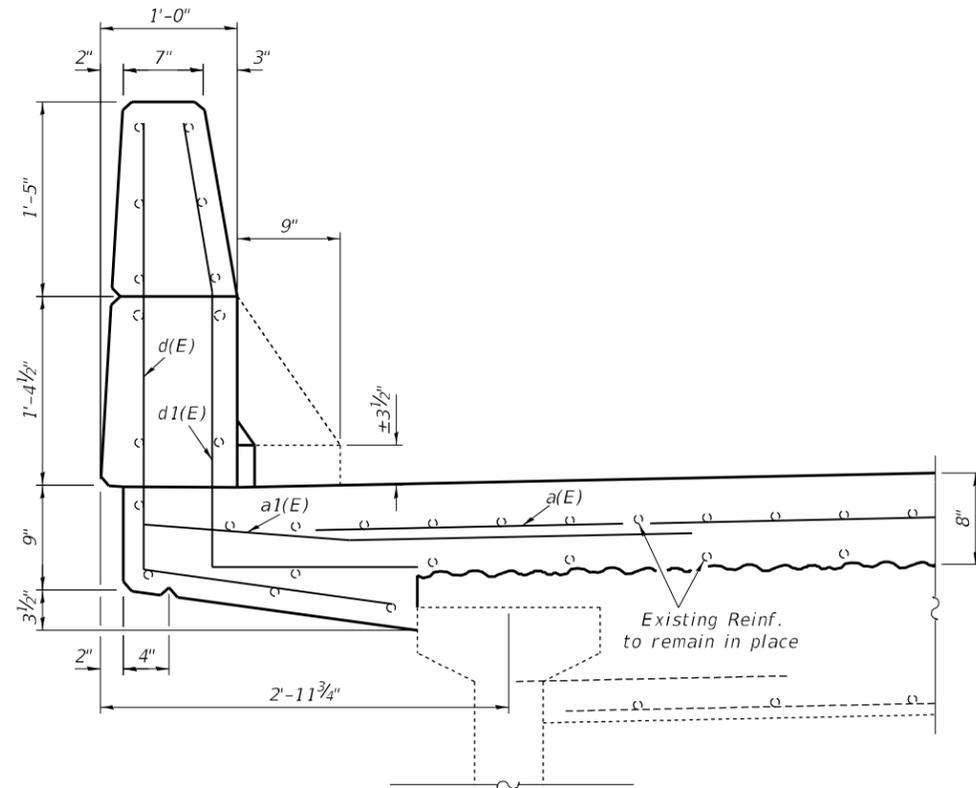


SECTION A-A

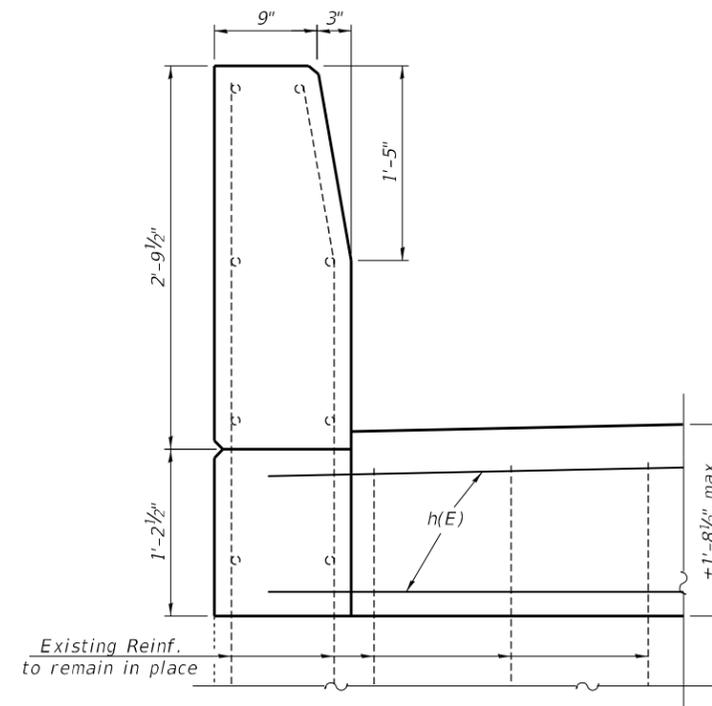
** Deterioration or damage to the existing HMA surface beyond this interface shall not be repaired with concrete, but shall instead be repaired with HMA Surface Course as directed by the Engineer. This repair shall be paid for as Extra Work according to Article 109.04 of the Standard Specifications.



SECTION B-B



SECTION THRU DECK PARAPET



SECTION THRU APPROACH PARAPET

MODEL NUMBER: 8357
FILE NAME: 8357.DWG

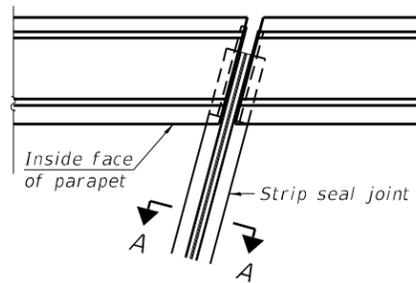
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|-----------------------|----------------------|-----------|
| USER NAME = \$USERS | DESIGNED - T. Walk | REVISED - |
| PLOT SCALE = \$SCALES | DRAWN - T. Walk | REVISED - |
| PLOT DATE = \$DATES | CHECKED - D. Macklin | REVISED - |
| | DATE - Oct, 2021 | REVISED - |

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

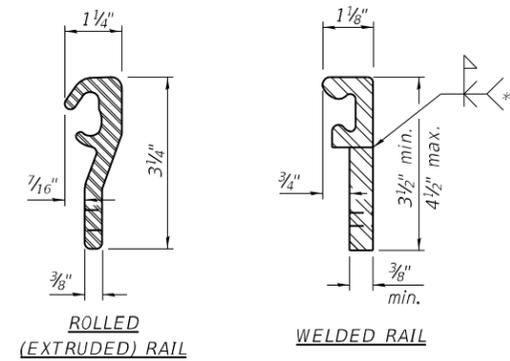
EXPANSION JOINT REPLACEMENT DETAILS
S.N. 025-0079

SCALE: SHEET 4 OF 10 SHEETS STA. TO STA.

| F.A.U. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------------|--------------------------|-----------|--------------|-----------|
| 8357 | D7 BRIDGE REPAIRS 2023-4 | EFFINGHAM | 25 | 15 |
| CONTRACT NO. 74A90 | | | | |
| ILLINOIS FED. AID PROJECT | | | | |



PLAN AT PARAPET



LOCKING EDGE RAILS

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

Notes:

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

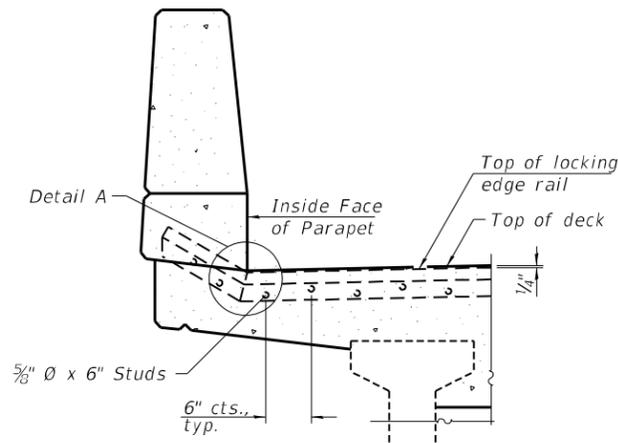
The locking edge rails depicted are configured for typical applications and are conceptual only. The actual configuration of the locking edge rails and matching strip seal may vary from manufacturer to manufacturer provided they fit the application and meet the minimum anchorage shown. Flanged edge rails, however, will not be allowed. Locking edge rails may exceed the 4 1/2" maximum depth provided the anchorage system is revised according to the manufacturer's recommendation.

The manufacturer's recommended installation methods shall be followed.

All steel components shall be galvanized after fabrication according to Article 520.03 of the Standard Specifications.

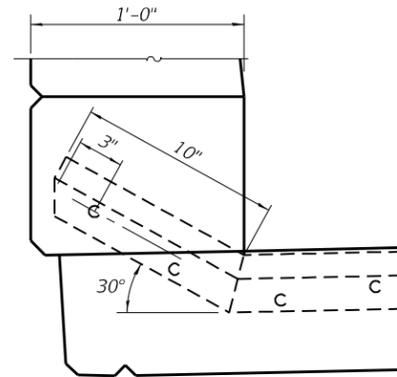
The Maximum space between locking edge rail segments shall be 3/16" and sealed with a suitable sealant; however, any rail joint within 10' measured perpendicular to the face of the curb or parapet shall be welded as shown in the locking edge rail splice detail.

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

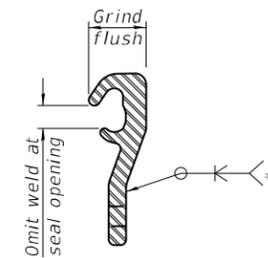


ELEVATION AT PARAPET

(Skews > 30° shown. Skews ≤ 30° similar except as shown in plan view.)

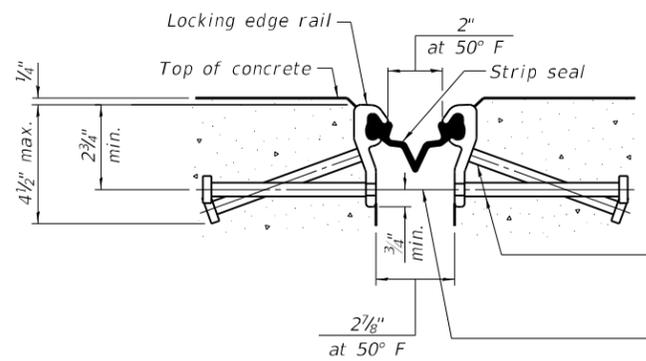


DETAIL A

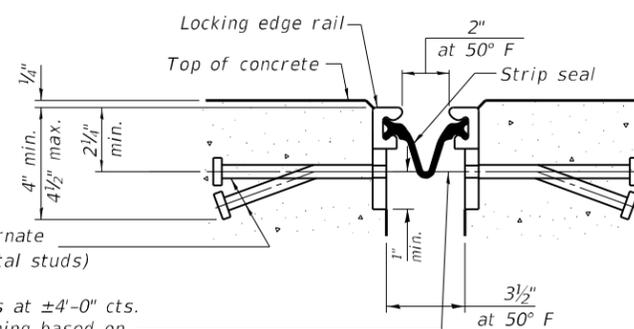


LOCKING EDGE RAIL SPLICE

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



SHOWING ROLLED RAIL JOINT



SHOWING WELDED RAIL JOINT

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

3/8" Ø threaded rods in 7/16" Ø holes at ±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.

BILL OF MATERIAL

| Item | Unit | Total |
|----------------------------|------|-------|
| Preformed Joint Strip Seal | Foot | 84 |

MODEL NUMBER: N/A
FILE NAME: STRIP SEAL

| | | |
|-----------------------|----------------------|-----------|
| USER NAME = \$USERS | DESIGNED - T. Walk | REVISED - |
| PLOT SCALE = \$SCALES | DRAWN - T. Walk | REVISED - |
| PLOT DATE = \$DATES | CHECKED - D. Macklin | REVISED - |
| | DATE - Oct, 2021 | REVISED - |

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

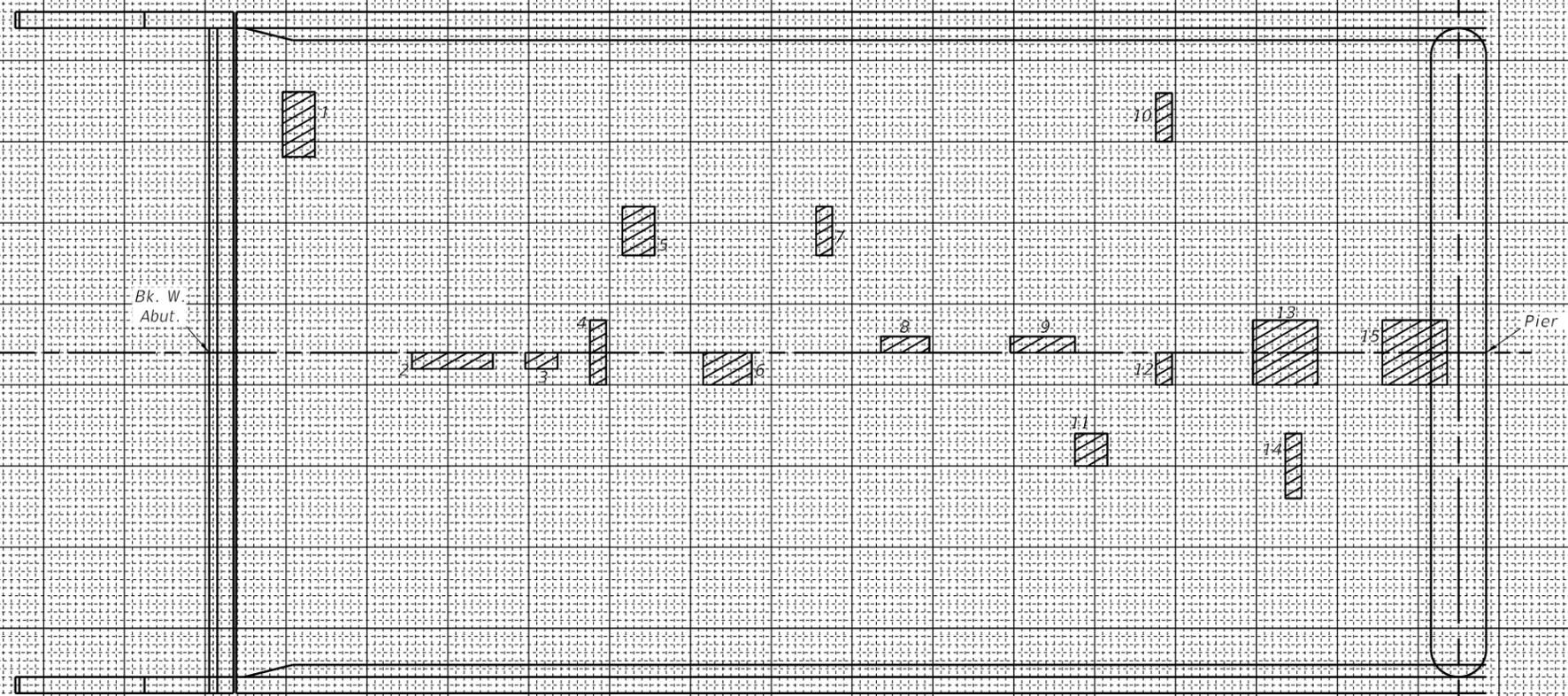
PREFORMED JOINT STRIP SEAL DETAIL
S.N. 025-0079

SCALE: SHEET 5 OF 10 SHEETS STA. TO STA.

| | | | | |
|-------------|--------------------------|-----------|------------------|-----------|
| F.A.U. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 8357 | D7 BRIDGE REPAIRS 2023-4 | EFFINGHAM | 25 | 16 |
| ILLINOIS | | | FED. AID PROJECT | |

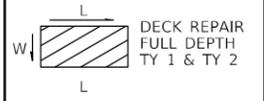
CONTRACT NO. 74A90

025-0079 West Span



| PATCH NO. | SIZE | | DECK SLAB REPAIR (FD TY I) SQ YD | DECK SLAB REPAIR (FD TY II) SQ YD |
|------------------|--------|-------|----------------------------------|-----------------------------------|
| | LENGTH | WIDTH | | |
| 1 | 2.0 | 4.0 | | 0.9 |
| 2 | 5.0 | 1.0 | | 0.6 |
| 3 | 2.0 | 1.0 | 0.2 | |
| 4 | 1.0 | 4.0 | 0.4 | |
| 5 | 2.0 | 3.0 | | 0.7 |
| 6 | 3.0 | 2.0 | | 0.7 |
| 7 | 1.0 | 3.0 | 0.3 | |
| 8 | 3.0 | 1.0 | 0.3 | |
| 9 | 4.0 | 1.0 | 0.4 | |
| 10 | 1.0 | 3.0 | 0.3 | |
| 11 | 2.0 | 2.0 | 0.4 | |
| 12 | 1.0 | 2.0 | 0.2 | |
| 13 | 4.0 | 4.0 | | 1.8 |
| 14 | 1.0 | 4.0 | 0.4 | |
| 15 | 4.0 | 4.0 | | 1.8 |
| TOTAL ROUNDS TO: | | | 3.0 | 7.0 |

THE LOCATIONS AND SIZES SHOWN GRAPHICALLY ABOVE ARE APPROXIMATE. SEE THIS TABLE FOR ACTUAL SIZES.



DATE OF SURVEY: 9-28-2021
 SURVEY BY: DPM & TMW
 METHOD OF SURVEY: VISUAL

ESTIMATED PAY QUANTITIES:
 DECK SLAB REPAIR (FULL DEPTH TYPE I) 3.0 SQ YD
 DECK SLAB REPAIR (FULL DEPTH TYPE II) 7.0 SQ YD

MODEL: SMODEL.NAMES
FILE NAME: SPLIT5

| | | |
|------------------------|----------------------|-----------|
| USER NAME = \$USERS | DESIGNED - T. Walk | REVISED - |
| | DRAWN - T. Walk | REVISED - |
| PLOT SCALE = \$SCALE\$ | CHECKED - D. Macklin | REVISED - |
| PLOT DATE = \$DATE\$ | DATE - Oct, 2021 | REVISED - |

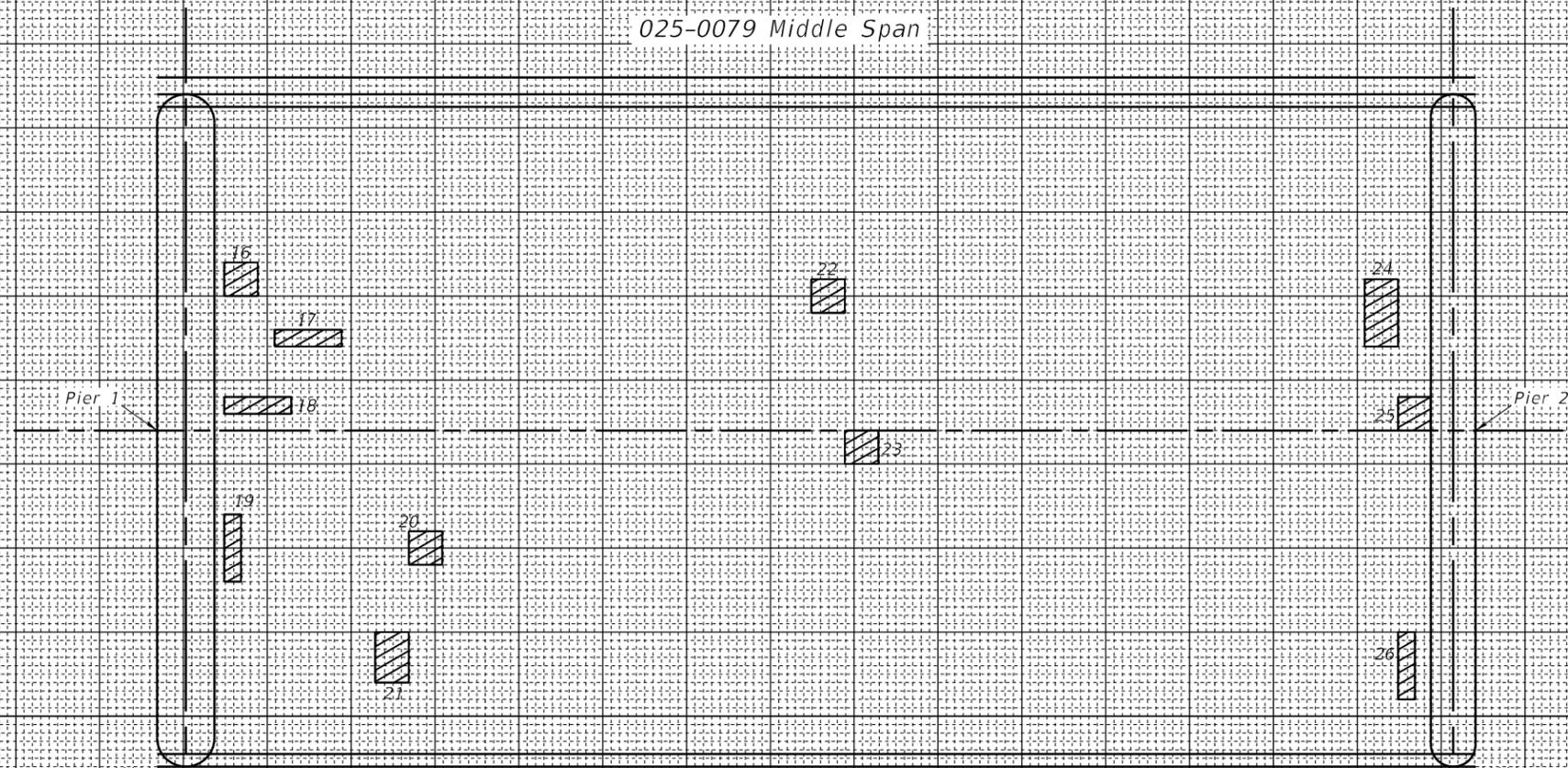
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

BRIDGE DECK PATCHING, WEST SPAN
 SN. 025-0079

SCALE: SHEET 6 OF 10 SHEETS STA. TO STA.

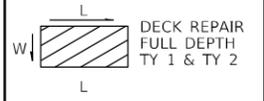
| | | | | |
|---------------------------|-------------------------|-----------|--------------|-----------|
| F.A.U. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 8357 | D7 BRIDGE REPAIR 2023-4 | EFFINGHAM | 25 | 17 |
| CONTRACT NO. 74A90 | | | | |
| ILLINOIS FED. AID PROJECT | | | | |

025-0079 Middle Span



| PATCH NO. | SIZE | | DECK SLAB REPAIR (FD TY I) | DECK SLAB REPAIR (FD TY II) |
|------------------|--------|-------|----------------------------|-----------------------------|
| | LENGTH | WIDTH | SQ YD | SQ YD |
| 16 | 2.0 | 2.0 | 0.4 | |
| 17 | 4.0 | 1.0 | 0.4 | |
| 18 | 4.0 | 1.0 | 0.4 | |
| 19 | 1.0 | 4.0 | 0.4 | |
| 20 | 2.0 | 2.0 | 0.4 | |
| 21 | 2.0 | 3.0 | | 0.7 |
| 22 | 2.0 | 2.0 | 0.4 | |
| 23 | 2.0 | 2.0 | 0.4 | |
| 24 | 2.0 | 4.0 | | 0.9 |
| 25 | 2.0 | 2.0 | 0.4 | |
| 26 | 1.0 | 4.0 | 0.4 | |
| TOTAL ROUNDS TO: | | | 4.0 | 2.0 |

THE LOCATIONS AND SIZES SHOWN GRAPHICALLY ABOVE ARE APPROXIMATE. SEE THIS TABLE FOR ACTUAL SIZES.



DATE OF SURVEY: 9-28-2021
 SURVEY BY: DPM & TMW
 METHOD OF SURVEY: VISUAL

ESTIMATED PAY QUANTITIES:
 DECK SLAB REPAIR (FULL DEPTH TYPE I)
 4.0 SQ YD
 DECK SLAB REPAIR (FULL DEPTH TYPE II)
 2.0 SQ YD

MODEL: SMOBELNAMES
FILE NAME: SPLIT5

| | | |
|------------------------|----------------------|-----------|
| USER NAME = \$USERS | DESIGNED - T. Walk | REVISED - |
| | DRAWN - T. Walk | REVISED - |
| PLOT SCALE = \$SCALE\$ | CHECKED - D. Macklin | REVISED - |
| PLOT DATE = \$DATE\$ | DATE - Oct, 2021 | REVISED - |

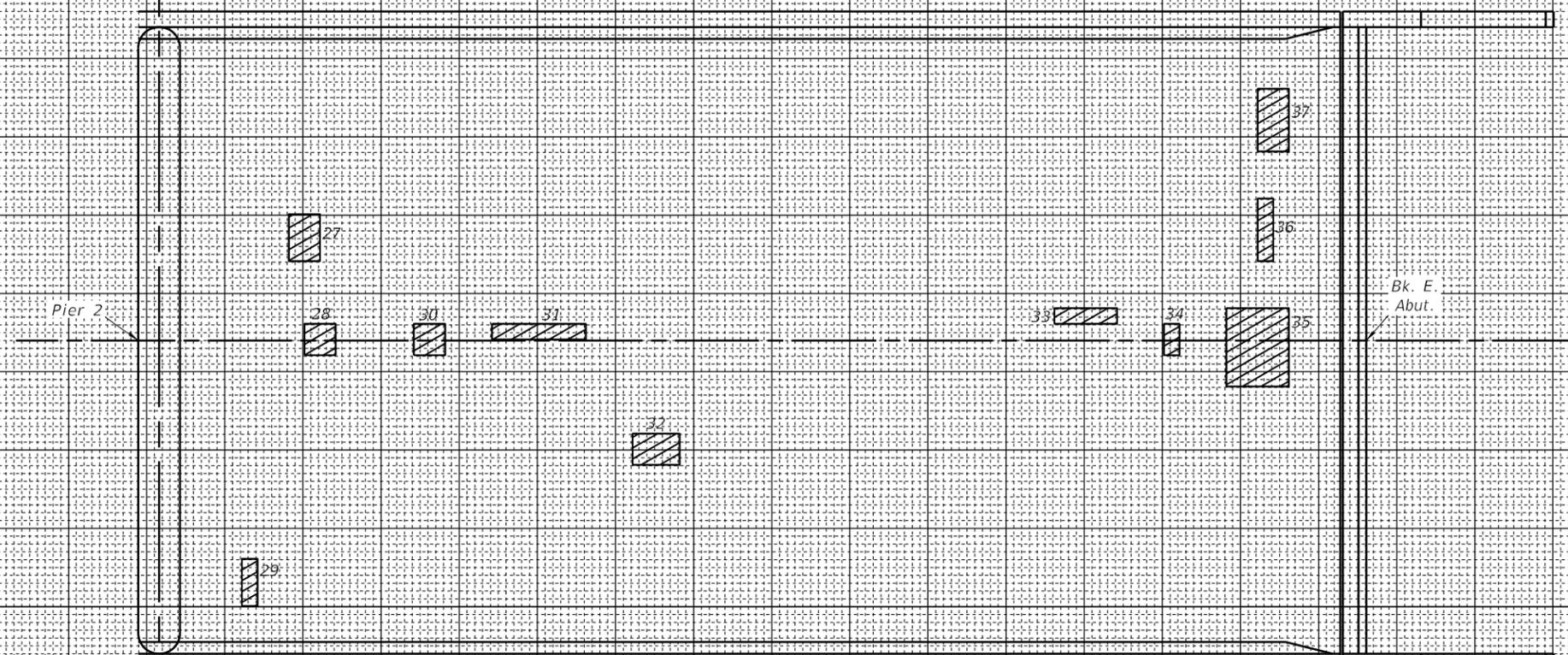
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

BRIDGE DECK PATCHING, MID SPAN
 SN. 025-0079

SCALE: SHEET 7 OF 10 SHEETS STA. TO STA.

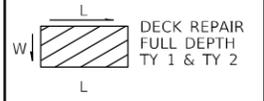
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|---------------------------|-------------------------|-----------|--------------|-----------|
| F.A.U. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 8357 | D7 BRIDGE REPAIR 2023-4 | EFFINGHAM | 25 | 18 |
| CONTRACT NO. 74A90 | | | | |
| ILLINOIS FED. AID PROJECT | | | | |

025-0079 East Span



| PATCH NO. | SIZE | | DECK SLAB REPAIR (FD TY I) | DECK SLAB REPAIR (FD TY II) |
|------------------|--------|-------|----------------------------|-----------------------------|
| | LENGTH | WIDTH | SQ YD | SQ YD |
| 27 | 2.0 | 3.0 | | 0.7 |
| 28 | 2.0 | 2.0 | 0.4 | |
| 29 | 1.0 | 3.0 | 0.3 | |
| 30 | 2.0 | 2.0 | 0.4 | |
| 31 | 6.0 | 1.0 | | 0.7 |
| 32 | 3.0 | 2.0 | | 0.7 |
| 33 | 4.0 | 1.0 | 0.4 | |
| 34 | 1.0 | 2.0 | 0.2 | |
| 35 | 4.0 | 5.0 | | 2.2 |
| 36 | 1.0 | 4.0 | 0.4 | |
| 37 | 2.0 | 4.0 | | 0.9 |
| TOTAL ROUNDS TO: | | | 3.0 | 6.0 |

THE LOCATIONS AND SIZES SHOWN GRAPHICALLY ABOVE ARE APPROXIMATE. SEE THIS TABLE FOR ACTUAL SIZES.



DATE OF SURVEY: 9-28-2021
 SURVEY BY: DPM & TMW
 METHOD OF SURVEY: VISUAL

ESTIMATED PAY QUANTITIES:
 DECK SLAB REPAIR (FULL DEPTH TYPE I)
 3.0 SQ YD
 DECK SLAB REPAIR (FULL DEPTH TYPE II)
 6.0 SQ YD

MODEL: SMODEL.NAMES
FILE NAME: SPLIT5

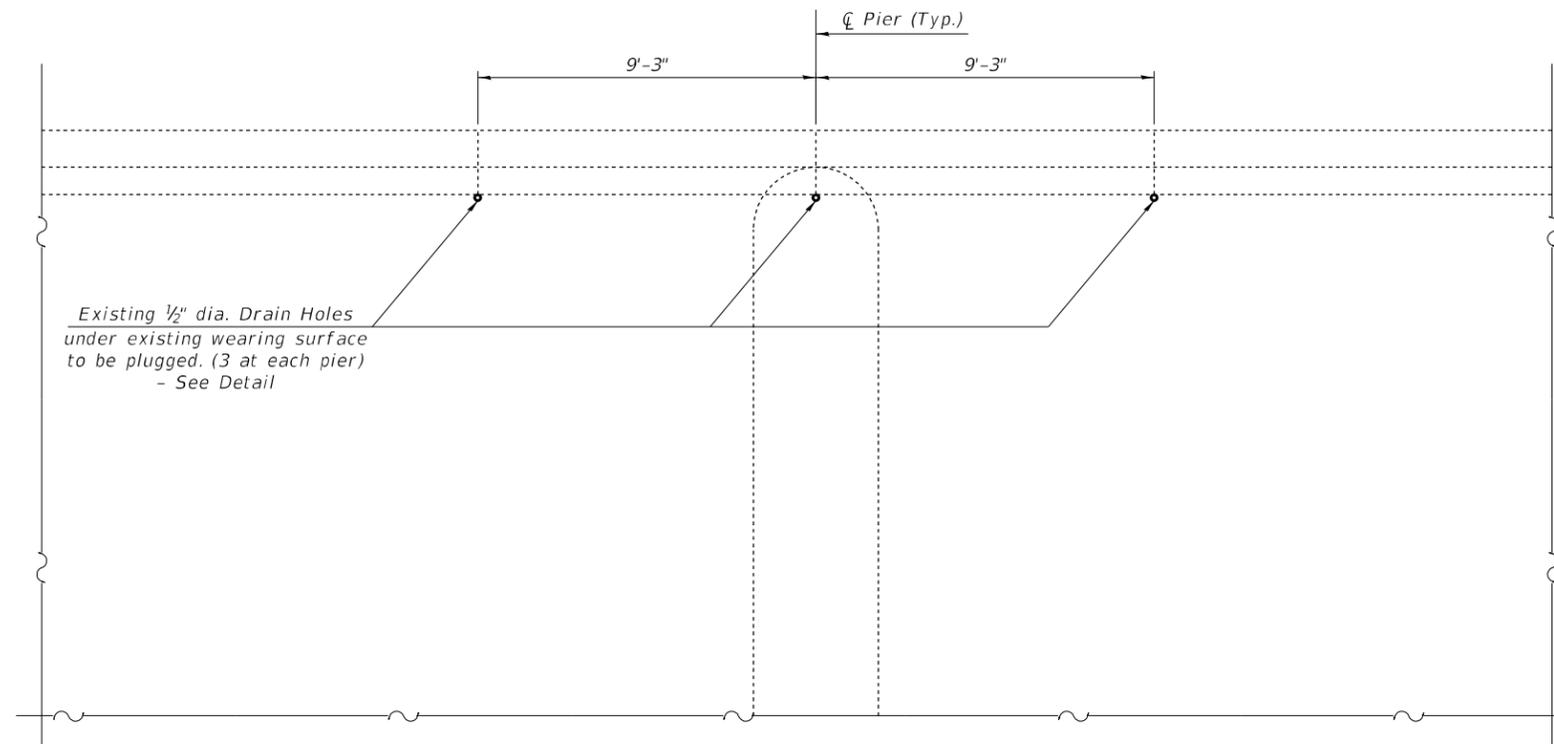
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|------------------------|----------------------|-----------|
| USER NAME = \$USERS | DESIGNED - T. Walk | REVISED - |
| | DRAWN - T. Walk | REVISED - |
| PLOT SCALE = \$SCALE\$ | CHECKED - D. Macklin | REVISED - |
| PLOT DATE = \$DATE\$ | DATE - Oct, 2021 | REVISED - |

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

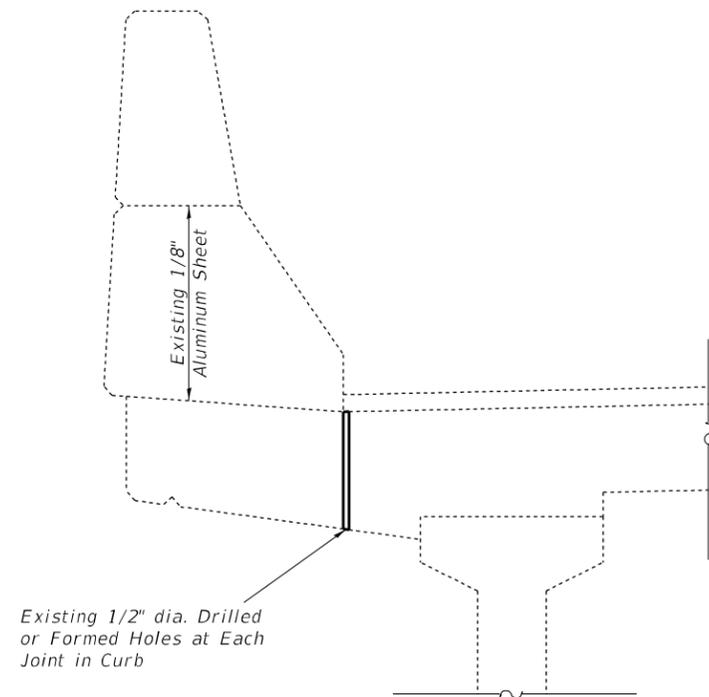
BRIDGE DECK PATCHING, EAST SPAN
 SN. 025-0079

SCALE: SHEET 8 OF 10 SHEETS STA. TO STA.

| | | | | |
|---------------------------|-------------------------|-----------|--------------|-----------|
| F.A.U. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 8357 | D7 BRIDGE REPAIR 2023-4 | EFFINGHAM | 25 | 19 |
| CONTRACT NO. 74A90 | | | | |
| ILLINOIS FED. AID PROJECT | | | | |



DRAIN HOLE LOCATIONS
(Typ. Each Pier)



DETAIL OF DRAIN HOLES AT CURB JOINTS

(To be plugged) - See notes this sheet

Notes

All (qty. 12) 1/2" dia. drain holes at curb joints shall be filled with a two component non-staining gray sealing compound with polysulfide liquid polymers - gun grade with primer. Cost to be included with Bridge Deck Concrete Overlay.

MODEL: \\MODELS\NAME\FILES

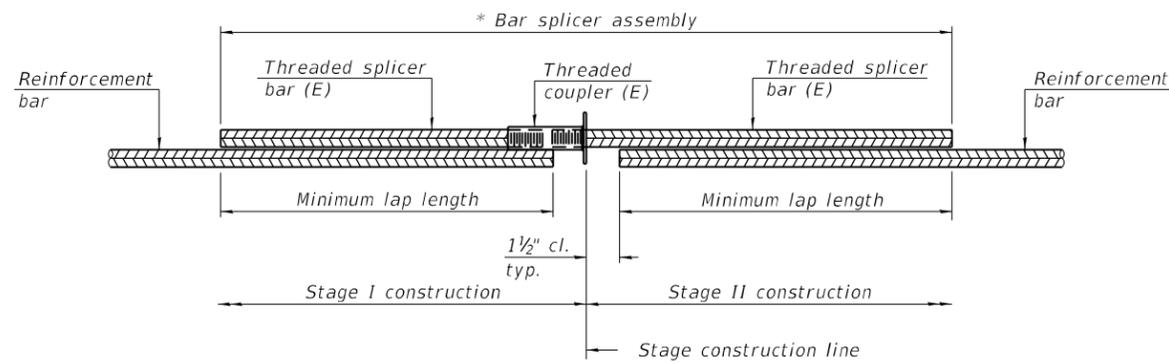
| | | |
|-----------------------|----------------------|-----------|
| USER NAME = \$USERS | DESIGNED - T. Walk | REVISED - |
| | DRAWN - T. Walk | REVISED - |
| PLOT SCALE = \$SCALES | CHECKED - D. Macklin | REVISED - |
| PLOT DATE = \$DATES | DATE - Oct, 2021 | REVISED - |

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**PLUGGING DRAIN HOLE DETAILS
S.N. 025-0079**

SCALE: SHEET 9 OF 10 SHEETS STA. TO STA.

| F.A.U. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------------|--------------------------|-----------|--------------------|-----------|
| 8357 | D7 BRIDGE REPAIRS 2023-4 | EFFINGHAM | 25 | 20 |
| ILLINOIS FED. AID PROJECT | | | CONTRACT NO. 74A90 | |

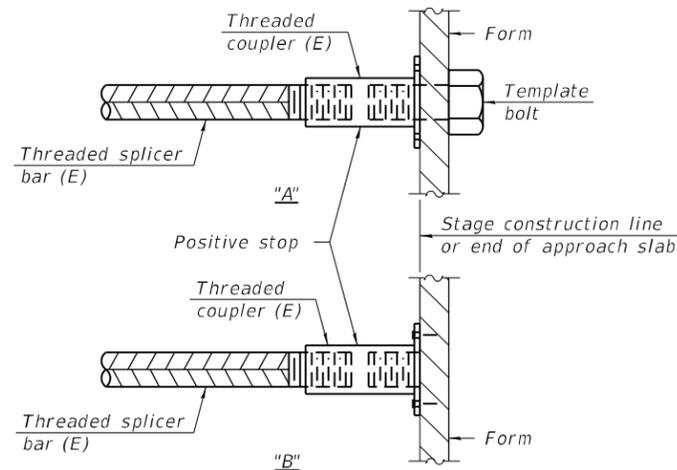


STANDARD BAR SPLICER ASSEMBLY PLAN
 (All components shall be provided from one supplier)

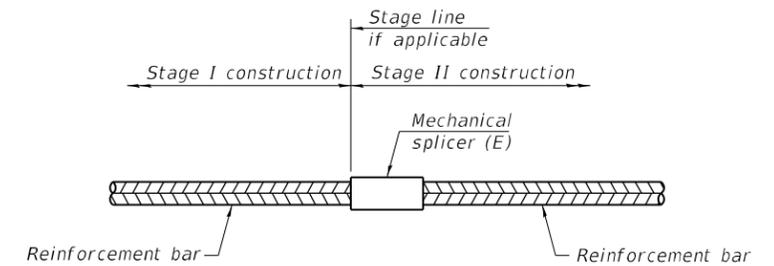
Threaded splicer bar length = min. lap length + 1 1/2" + thread length

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

| Location | Bar size | No. assemblies required | Minimum lap length |
|----------|----------|-------------------------|--------------------|
| Deck | #7 | 4 | 5'-2" |
| Approach | #6 | 8 | 4'-0" |
| | | | |
| | | | |



"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 NUMBER: BSD-1
 FILE NAME: BSD-1.DWG

BSD-1

1-1-2020

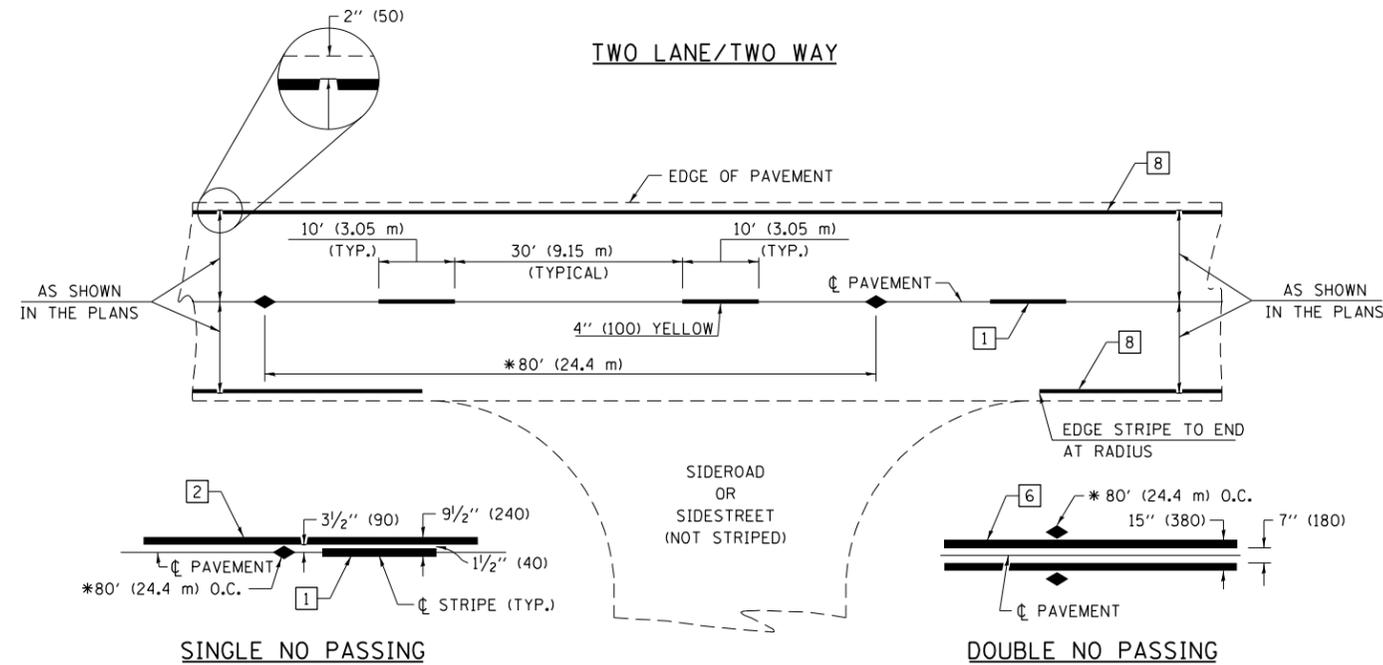
| | | |
|-----------------------|----------------------|-----------|
| USER NAME = \$USERS | DESIGNED - T. Walk | REVISED - |
| | DRAWN - T. Walk | REVISED - |
| PLOT SCALE = \$SCALES | CHECKED - D. MacKlin | REVISED - |
| PLOT DATE = \$DATES | DATE - Oct, 2021 | REVISED - |

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

BAR SPLICER ASSEMBLY AND MECHANICAL SPLICER DETAILS
S.N. 025-0079

SCALE: SHEET 10 OF 10 SHEETS STA. TO STA.

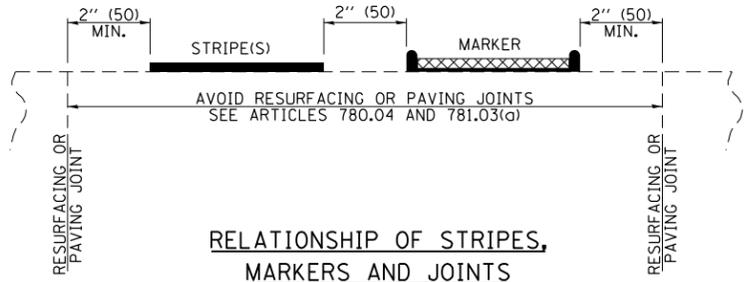
| F.A.U. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------------|--------------------------|-----------|--------------------|-----------|
| 8357 | D7 BRIDGE REPAIRS 2023-4 | EFFINGHAM | 25 | 21 |
| ILLINOIS FED. AID PROJECT | | | CONTRACT NO. 74A90 | |



PAVEMENT MARKING LEGEND

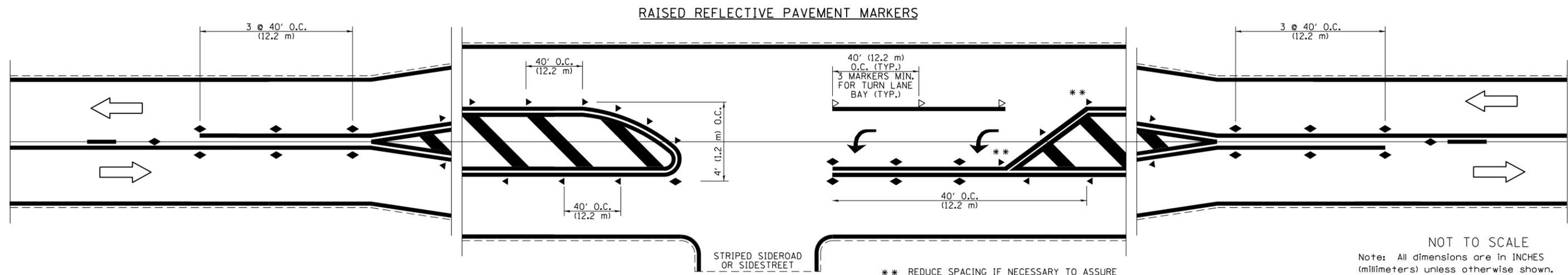
- 1 4" (100) SKIP-DASH (YELLOW)
- 2 4" (100) SOLID (YELLOW)
- 3 12" (300) DIAGONAL (YELLOW)
- 4 4" (100) DOUBLE YELLOW (NARROW)
- 5 12" (300) SOLID WHITE
- 6 4" (100) DOUBLE YELLOW (WIDE)
- 7 6" (150) SKIP-DASH (WHITE)
- 8 4" (100) SOLID (WHITE)
- 9 12" (300) DIAGONAL (WHITE)
- 10 6" (150) SOLID (WHITE)
- 11 24" (600) STOP BAR (WHITE)
- 12 8" (200) SOLID (WHITE)
- 13 4" (100) PARKING WHITE

* REDUCE TO 40' (12.2 m) O.C. ON CURVES WITH POSTED OR ADVISORY SPEEDS OF 45 mph (70 km/h) OR LESS.



TYPICAL PAVEMENT MARKERS LEGEND

- ◆ TWO-WAY AMBER MARKER
- ▶ ONE-WAY AMBER MARKER
- ▷ ONE-WAY CRYSTAL MARKER



NOT TO SCALE
Note: All dimensions are in INCHES (millimeters) unless otherwise shown.

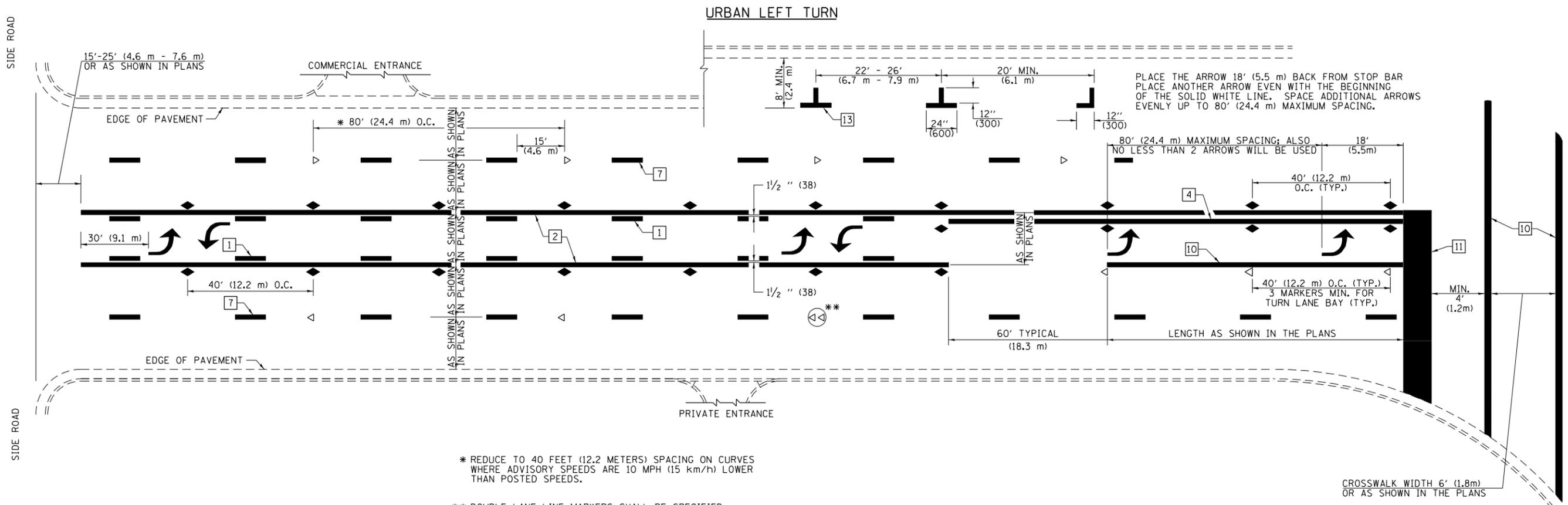
| | | | |
|-------------|----------------------|------------|---------------------|
| FILE NAME = | USER NAME = #USER* | DESIGNED - | REVISED - NAS 06/22 |
| #FILE# | | DRAWN - | REVISED - |
| | PLOT SCALE = #SCALE* | CHECKED - | REVISED - |
| | PLOT DATE = #DATE* | DATE - | REVISED - |

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**PAVEMENT MARKING AND RAISED REFLECTIVE PAVEMENT MARKERS
(RURAL & URBAN APPLICATIONS)**

SCALE: SHEET NO. 1 OF 4 SHEETS STA. TO STA.

| | | | | |
|---------------------------------------|--------------------------|-----------|--------------|-----------|
| DISTRICT 7 DETAIL NO. 78000001 | | | | |
| F.A.U. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 8357 | D7 BRIDGE REPAIRS 2023-4 | EFFINGHAM | 25 | 22 |
| CONTRACT NO. 74A90 | | | | |
| ILLINOIS FED. AID PROJECT | | | | |



* REDUCE TO 40 FEET (12.2 METERS) SPACING ON CURVES WHERE ADVISORY SPEEDS ARE 10 MPH (15 km/h) LOWER THAN POSTED SPEEDS.

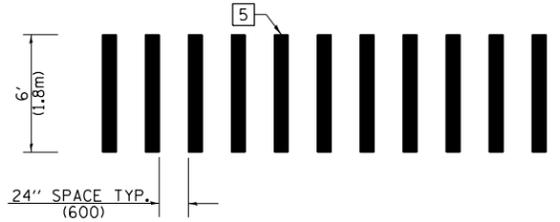
** DOUBLE LANE LINE MARKERS SHALL BE SPECIFIED AND SPACED AS SHOWN IN HIGHWAY STANDARD 781001 FOR MULTI-LANE DIVIDED AND UNDIVIDED HIGHWAYS.

PAVEMENT MARKING LEGEND

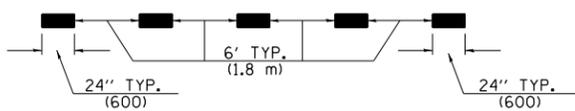
- 1 4" (100) SKIP-DASH (YELLOW)
- 2 4" (100) SOLID (YELLOW)
- 3 12" (300) DIAGONAL (YELLOW)
- 4 4" (100) DOUBLE YELLOW (NARROW)
- 5 12" (300) SOLID WHITE
- 6 4" (100) DOUBLE YELLOW (WIDE)
- 7 6" (150) SKIP-DASH (WHITE)
- 8 4" (100) SOLID (WHITE)
- 9 12" (300) DIAGONAL (WHITE)
- 10 6" (150) SOLID (WHITE)
- 11 24" (600) STOP BAR (WHITE)
- 12 8" (200) SOLID (WHITE)
- 13 4" (100) PARKING WHITE

GENERAL NOTES

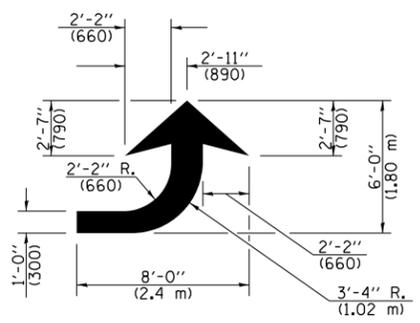
1. TURN ARROW PAIRS SHALL BE PLACED AT 250' (75 m) INTERVALS AND SHALL BE EVENLY SPACED BETWEEN BOTH ENDS OF THE BIDIRECTIONAL LEFT TURN LANE. USE A MINIMUM OF TWO PAIRS PER BLOCK.
2. THE SOLID YELLOW PAVEMENT MARKINGS [2] SHOULD GENERALLY START OR END NEAR THE RADIUS POINT OF EACH STREET RETURN EXCEPT WHERE ONE OR BOTH ENDS WOULD INCLUDE STOP BARS.
3. THE SKIP-DASH PAVEMENT MARKINGS [1] OR [7] SHOULD BE CENTERED BETWEEN BOTH ENDS OF EACH CITY BLOCK AND SHALL BE PLACED SO THEY LINE UP ACROSS FROM EACH OTHER.
4. USE LARGE ARROW SIZE FOR BOTH RURAL AND URBAN LOCATIONS. (SEE SECTION 780 FOR SYMBOLS TABLE)
5. LANE LINE EXTENSIONS SHALL BE THE SAME COLOR AND WIDTH AS THE LANE LINE BEING EXTENDED.
6. ALL WHITE SKIP-DASH LINES SHALL BE 6" IN WIDTH.



**CROSSWALK DETAIL
(DECATUR CITY LIMITS ONLY)**

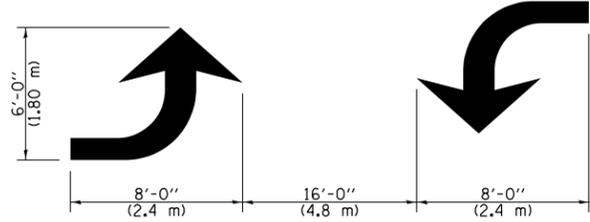


LANE LINE EXTENSIONS



LEFT ARROW

REVERSE FOR RIGHT ARROW
AREA = 15.6 SQ. FT. (1.47 m²)
(WHITE)



**TYPICAL DOUBLE
TURN ARROWS (WHITE)**

NOT TO SCALE

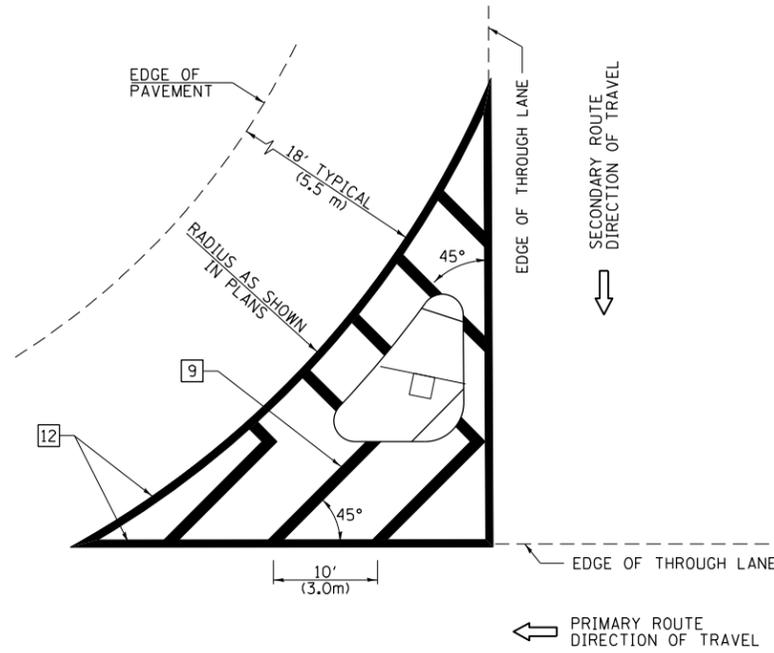
Note: All dimensions are in INCHES (millimeters) unless otherwise shown.

DISTRICT 7 DETAIL NO. 7800001

| | | | | | | | | | | | | |
|-----------------------|----------------------|------------|---------------------|---|---|--|--|--------------------|--------------------------|-----------|--------------|-----------|
| FILE NAME = #FILE# | USER NAME = #USER# | DESIGNED - | REVISED - NAS 06/22 | STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION | PAVEMENT MARKING AND RAISED REFLECTIVE PAVEMENT MARKERS (RURAL & URBAN APPLICATIONS) | | | F.A.U. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| | PLOT SCALE = #SCALE# | DRAWN - | REVISED - | | | | | 8357 | D7 BRIDGE REPAIRS 2023-4 | EFFINGHAM | 25 | 23 |
| | PLOT DATE = #DATE# | CHECKED - | REVISED - | | SCALE: SHEET NO. 2 OF 4 SHEETS STA. TO STA. | | | CONTRACT NO. 74A90 | | | | |
| | | DATE - | REVISED - | | ILLINOIS FED. AID PROJECT | | | | | | | |

ISLANDS

OPTION 1

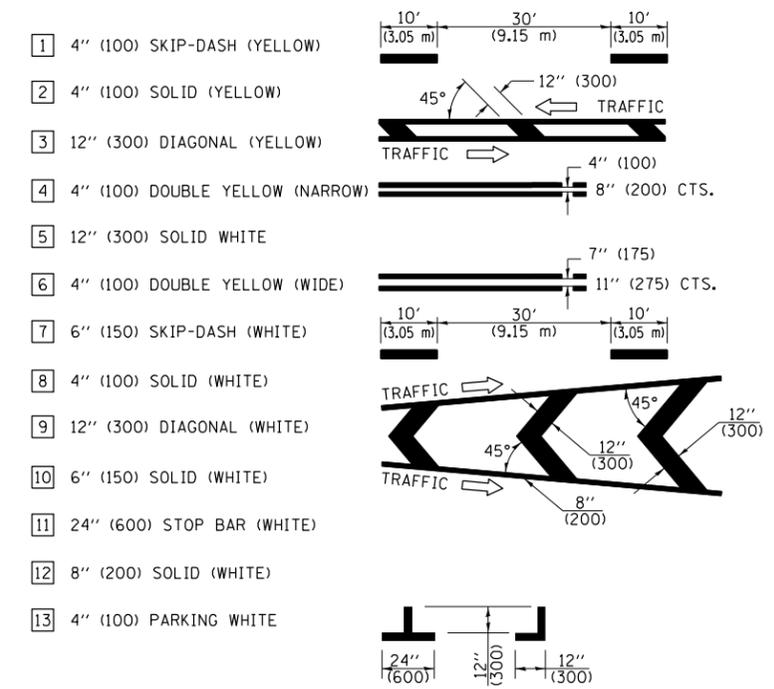


GENERAL NOTES

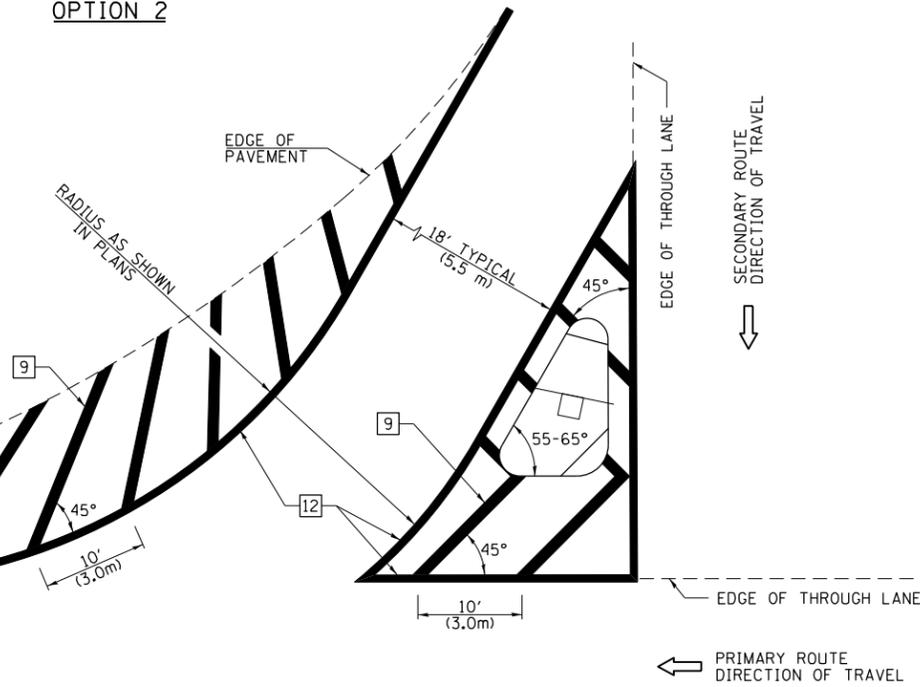
1. RAISED AND CORRUGATED MEDIANS SHALL BE OUTLINED WITH [2].
2. SOME OF THE INFORMATION INCLUDED WITH THIS DETAIL MAY NOT BE APPLICABLE TO THIS IMPROVEMENT.
3. PAVEMENT MARKINGS ARE TO BE EXTENDED THROUGH OMISSIONS WHEN APPLICABLE.
4. FINAL PAVEMENT MARKINGS SHALL BE IN PLACE PRIOR TO PLACING ANY RAISED REFLECTIVE PAVEMENT MARKERS.
5. THE FOLLOWING CRITERIA SHALL BE USED FOR SELECTING THE DIAGONAL PAVEMENT MARKING SPACING:

| | |
|------------------------|-------------|
| < 30 MPH (< 50 km/h) | 15' (4.5 m) |
| 30-45 MPH (50-75 km/h) | 20' (6.0 m) |
| > 45 MPH (> 75 km/h) | 30' (9.0 m) |
6. THE USE OF ISLAND STRIPING OPTION 1 OR OPTION 2 SHALL BE AS SHOWN ON THE PLANS.

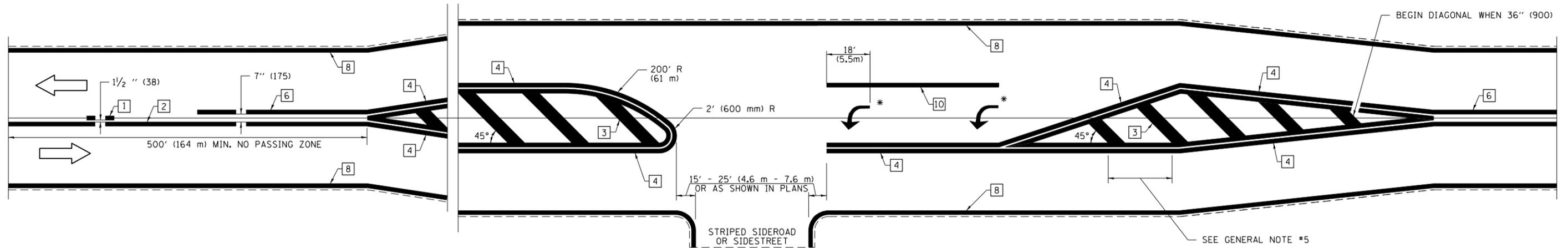
PAVEMENT MARKING LEGEND



OPTION 2



RURAL LEFT TURN STRIPING



* PLACE AN ARROW 18' (5.5 m) BACK FROM END OF THE SOLID WHITE LINE. PLACE ANOTHER ARROW EVEN WITH THE BEGINNING OF THE SOLID WHITE LINE. SPACE ADDITIONAL ARROWS EVENLY UP TO 80' (24.4 m) MAXIMUM SPACING. USE MINIMUM OF 2 ARROWS.

NOT TO SCALE

Note: All dimensions are in INCHES (millimeters) unless otherwise shown.

| | | | |
|-------------|-----------------------|------------|---------------------|
| FILE NAME = | USER NAME = \$USER* | DESIGNED - | REVISED - NAS 06/22 |
| \$FILE\$ | | DRAWN - | REVISED - |
| | PLOT SCALE = \$SCALE* | CHECKED - | REVISED - |
| | PLOT DATE = \$DATE* | DATE - | REVISED - |

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**PAVEMENT MARKING AND RAISED REFLECTIVE PAVEMENT MARKERS
(RURAL & URBAN APPLICATIONS)**

SCALE: SHEET NO. 3 OF 4 SHEETS STA. TO STA.

DISTRICT 7 DETAIL NO. 78000001

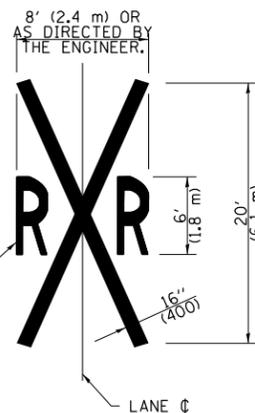
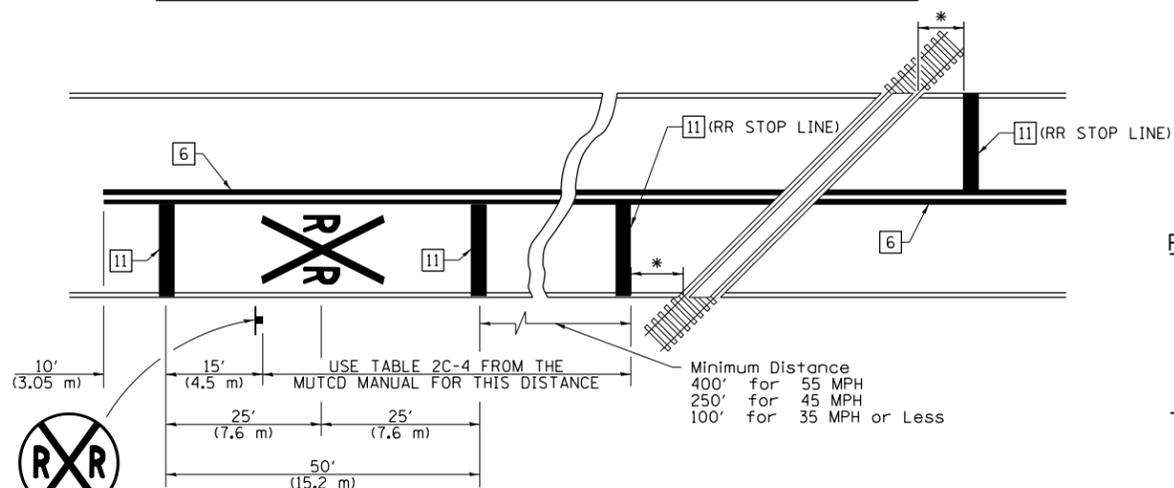
| F.A.U. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------------|--------------------------|-----------|--------------|--------------------|
| 8357 | D7 BRIDGE REPAIRS 2023-4 | EFFINGHAM | 25 | 24 |
| | | | | CONTRACT NO. 74A90 |
| ILLINOIS FED. AID PROJECT | | | | |

SUPPLEMENTAL PAVEMENT MARKING TREATMENT FOR RAILROAD-HIGHWAY GRADE CROSSING

PAVEMENT MARKING LEGEND

- 1 4" (100) SKIP-DASH (YELLOW)
 - 2 4" (100) SOLID (YELLOW)
 - 3 12" (300) DIAGONAL (YELLOW)
 - 4 4" (100) DOUBLE YELLOW (NARROW)
 - 5 12" (300) SOLID WHITE
 - 6 4" (100) DOUBLE YELLOW (WIDE)
 - 7 6" (150) SKIP-DASH (WHITE)
 - 8 4" (100) SOLID (WHITE)
 - 9 12" (300) DIAGONAL (WHITE)
 - 10 6" (150) SOLID (WHITE)
 - 11 24" (600) STOP BAR (WHITE)
 - 12 8" (200) SOLID (WHITE)
 - 13 4" (100) PARKING WHITE
-

PAVEMENT MARKINGS AT RAILROAD-HIGHWAY GRADE CROSSING



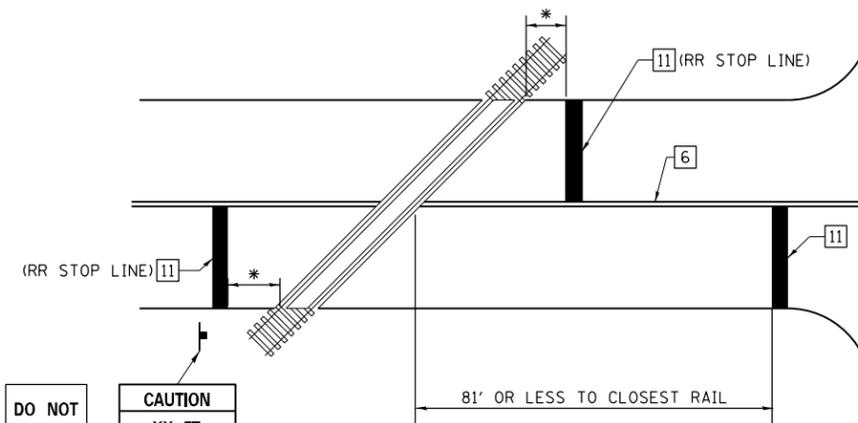
NOTES

THE TRAVERSE SPREAD OF THE "X" MAY VARY ACCORDING TO LANE WIDTH.

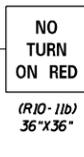
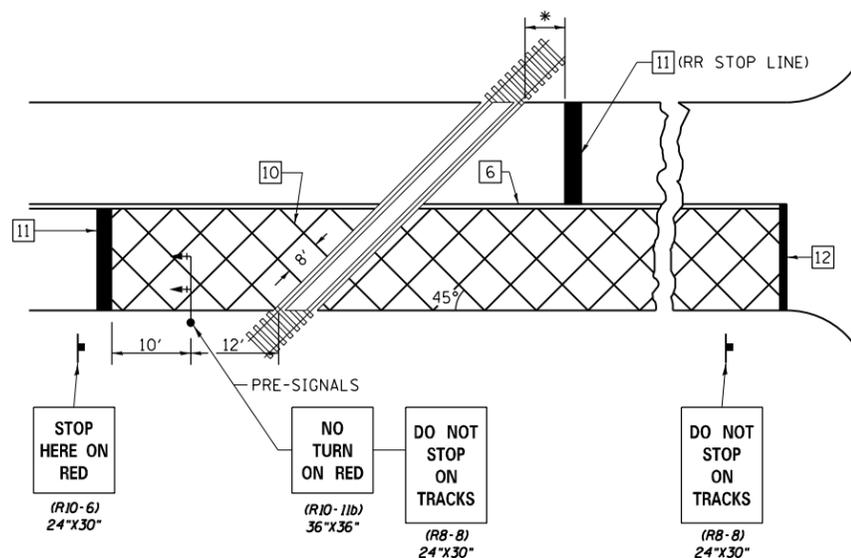
ON MULTI-LANE ROADS, THE STOP LINES SHALL EXTEND ACROSS ALL APPROACH LANES AND SEPARATE RRR SYMBOLS SHALL BE PLACED ADJACENT TO EACH OTHER IN EACH LANE.

WHEN THE PAVEMENT MARKING SYMBOL IS USED, A PORTION OF THE SYMBOL SHOULD BE LOCATED DIRECTLY ADJACENT TO THE ADVANCE WARNING SIGN (W10-1) AS PLACED BY TABLE II-1, CONDITION B OF THE MUTCD.

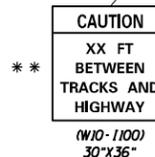
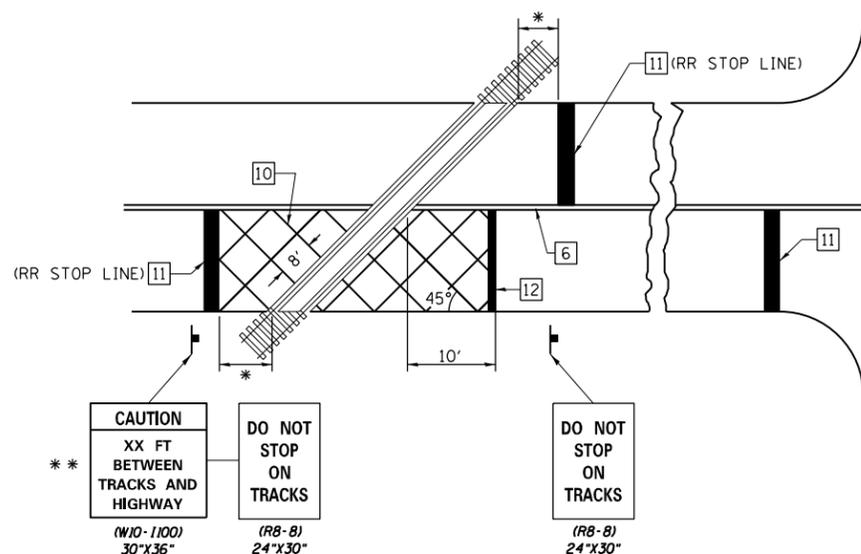
RAILROAD CROSSING WITH NON-SIGNALIZED INTERSECTION



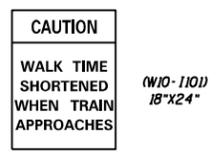
RAILROAD CROSSING WITH INTERCONNECT AND PRE-SIGNALS



RAILROAD CROSSING WITH INTERCONNECT ONLY



- ### GENERAL NOTES
- SUPPLEMENTAL PAVEMENT MARKINGS TO BE INSTALLED ONLY ON APPROACHES TO INTERSECTIONS CONTROLLED BY TRAFFIC SIGNALS WHICH ARE INTERCONNECTED WITH THE RAILROAD WARNING SIGNALS.
 - EXTEND PAVEMENT MARKINGS TO THE INTERSECTION ONLY WHERE PRE-SIGNALS ARE USED.
 - WHEN PEDESTRIAN SIGNALS ARE PRESENT WITH INTERCONNECTED SIGNALS, WARNING SIGN W10-1101 (18"X24") SHALL BE PLACED NEAR EACH PEDESTRIAN SIGNAL HEAD. COUNTDOWN PEDESTRIAN SIGNAL HEADS SHALL NOT BE UTILIZED ALONG WITH INTERCONNECTED SIGNALS.
 - PLEASE REFER TO THE IDOT BUREAU OF OPERATION MEMO OPS T-06 DATED DECEMBER 1, 2020 FOR ADDITIONAL INFORMATION.



* 15' FROM NEAR RAIL OR 8' FROM AND PARALLEL TO GATE IF PRESENT

** WARNING SIGN W10-1100 SHALL BE USED AS AN INTERIM MEASURE AT INTERCONNECTED SIGNAL LOCATIONS WHERE PRE-SIGNALS ARE TO BE INSTALLED IN THE FUTURE. THIS SIGN SHALL BE REMOVED WHEN THE PRE-SIGNALS ARE INSTALLED AND THE PAVEMENT MARKINGS ARE EXTENDED TO THE INTERSECTION.

NOT TO SCALE
Note: All dimensions are in INCHES (millimeters) unless otherwise shown.

DISTRICT 7 DETAIL NO. 78000001

| | | | | | | | | | | | |
|-------------|----------------------|------------|---------------------|---|---|---------------------------|--------------------------|-----------|--------------|-----------|--|
| FILE NAME = | USER NAME = #USER* | DESIGNED - | REVISED - NAS 06/22 | STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION | PAVEMENT MARKING AND RAISED REFLECTIVE PAVEMENT MARKERS (RURAL & URBAN APPLICATIONS) | F.A.U. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. | |
| #FILE# | | DRAWN - | REVISED - | | | 8357 | D7 BRIDGE REPAIRS 2023-4 | EFFINGHAM | 25 | 25 | |
| | PLOT SCALE = #SCALE* | CHECKED - | REVISED - | | | CONTRACT NO. 74A90 | | | | | |
| | PLOT DATE = #DATE* | DATE - | REVISED - | | | ILLINOIS FED. AID PROJECT | | | | | |

SCALE: SHEET NO. 4 OF 4 SHEETS STA. TO STA.