

INDEX OF SHEETS

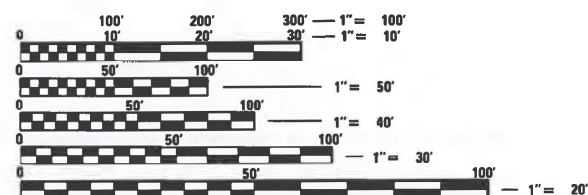
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- 12-22 STRUCTURAL DETAILS

HIGHWAY STANDARDS

- 000001-09 STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
 001001-02 AREAS OF REINFORCEMENT BARS
 001006 DECIMAL OF AN INCH AND OF A FOOT
 701001-02 OFF-RD OPERATIONS 2L 2W MORE THAN 15FT
 701006-05 OFF-RD OPERATIONS 2L 2W 15' TO 24" FROM PAVEMENT EDGE
 701201-05 LANE CLOSURE, 2L 2W, DAY ONLY 45MPH OR MORE
 701301-04 LANE CLOSURE, 2L 2W, SHORT TIME OPERATIONS
 701311-03 LANE CLOSURE, 2L 2W, MOVING OPERATIONS DAY ONLY
 701321-19 LANE CLOSURE, 2L 2W, BRIDGE REPAIR WITH BARRIER
 701901-11 TRAFFIC CONTROL DEVICES
 704001-08 TEMPORARY CONCRETE BARRIER
 780001-05 TYPICAL PAVEMENT MARKINGS
 782006-01 GUARDRAIL AND BARRIER WALL REFLECTOR MOUNTING DETAILS

DESIGN DESIGNATION

IL 96: MINOR ARTERIAL
 ADT: 1000 (2023)
 SU: 20
 MU: 60



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: BEN TELLEFSON
 PROJECT MANAGER: MARK ECKHOFF
 CONTRACT NO. 68K58
 CATALOG NO. 036696-00D

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS

PROPOSED HIGHWAY PLANS

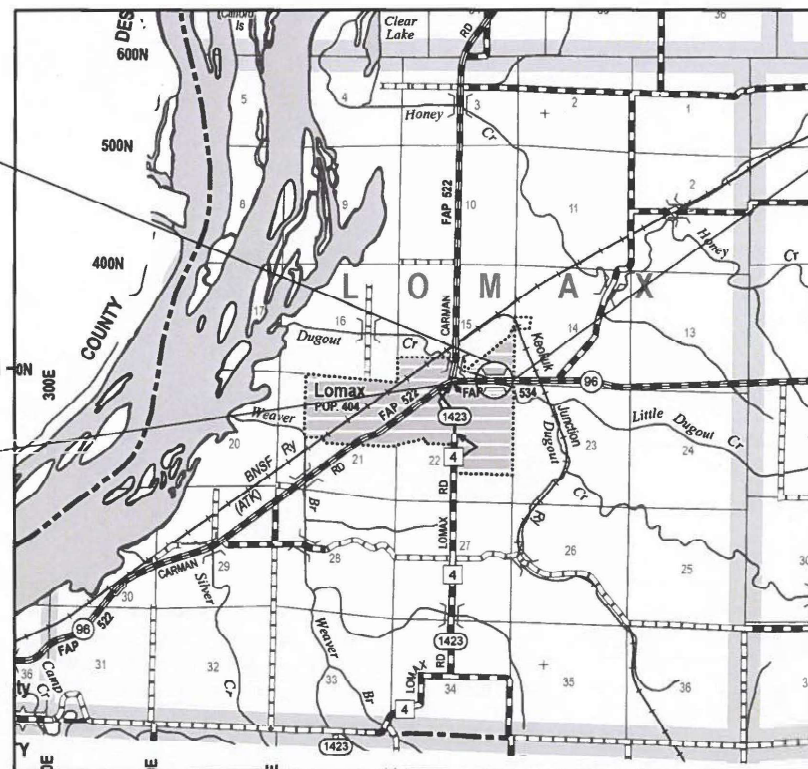
FAP 534 (IL 96)
 SECTION [(12B)BR]BRR
 BRIDGE REHABILITATION OVER DUGOUT CREEK
 HENDERSON COUNTY

C-94-107-25

EX SN 036-0009
 IL 96 OVER DUGOUT CREEK
 STA 346 + 60.26
 160'-2 1/2" BACK TO BACK OF ABUTMENTS
 3- SPAN CONTINUOUS STEEL I-BEAM

BEGIN IMPROVEMENTS
 STA. 344 + 05.32

END IMPROVEMENTS
 STA. 349 + 05.40



1" = 0.8 MILE

GROSS LENGTH = 500.08 FT. = 0.095 MILE
 NET LENGTH = 500.08 FT. = 0.095 MILE



11/25/2025
 TIMOTHY B. PADGETT, P.E. EXPIRATION DATE
 LICENSE NO. 062-049162 11-30-2027

| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|-------------|--------------|-----------|--------------------|-----------|
| 543 | [(12B)BR]BRR | HENDERSON | 22 | 1 |
| | | ILLINOIS | CONTRACT NO. 68K58 | |

D-94-093-25



LOCATION OF SECTION INDICATED THUS: -

PLANS PREPARED BY:



4940 Old Collinsville Road
 Swansea, Illinois 62226
 Tel: 618.624.4488
 www.twm-inc.com
 Illinois Professional Design Firm
 No. 184-001220
 License Expires: 4/30/2027
 ILLINOIS - MISSOURI - TENNESSEE

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

SUBMITTED December 9, 2025
Ben Tellefson
 REGIONAL ENGINEER
 January 23, 2026
Scott A. Etkin
 ENGINEER OF DESIGN AND ENVIRONMENT
 January 23, 2026
Mark Eckhoff
 DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

PRINTED BY THE AUTHORITY
 OF THE STATE OF ILLINOIS

COMMITMENTS

NO COMMITMENTS HAVE BEEN MADE FOR THIS PROJECT.

GENERAL NOTES

NO SURVEY WAS PERFORMED FOR THIS PROJECT. THE PLANS WERE CREATED USING MICROFILM AND FIELD MEASUREMENTS.

ENVIRONMENTAL REVIEWS

PRIOR TO THE USE OF ANY PROPOSED BORROW AREAS, USE AREAS (TEMPORARY ACCESS ROADS, DETOURS, RUN-AROUNDS, ETC.) AND/OR WASTE AREAS, THE CONTRACTOR SHALL FILE THE REQUIRED ENVIRONMENTAL RESOURCE REQUEST SURVEYS ACCORDING TO SECTION 107.22 OF THE STANDARD SPECIFICATIONS. THESE SURVEYS ARE REQUIRED IN ORDER FOR THE DEPARTMENT TO CONDUCT CULTURAL AND BIOLOGICAL RESOURCE SURVEYS FOR THE PROPOSED SITE.

THE REQUIRED ENVIRONMENTAL RESOURCE DOCUMENTATION SHALL INCLUDE THE FOLLOWING:

- *BDE FORM 2289 (BORROW SITE REVIEW)
- *BDE FORM 2290 (WASTE/USE AREA REVIEW)
- *A LOCATION MAP SHOWING THE SIZE LIMITS AND LOCATION OF THE USE AREA
- *COLOR PHOTOGRAPHS DEPICTING THE USE AREA
- *BORROW AREA ENTRY AGREEMENT FORM - D4 PI0101

PRIOR TO ANY WASTE MATERIALS BEING REMOVED FROM THE CONSTRUCTION SITE THE REQUIRED ENVIRONMENTAL RESOURCE SURVEYS SHALL BE OBTAINED AND FILED BY THE CONTRACTOR. EXCESS WASTE PRODUCTS REMOVED FROM THE CONSTRUCTION SITE SHALL BE DISPOSED OF AS REQUIRED IN SECTION 202.03 OF THE STANDARD SPECIFICATIONS.

ANY PROTRUDING METAL BARS SHALL BE REMOVED PRIOR TO THE DISPOSAL OF BROKEN CONCRETE AT APPROVED DISPOSAL SITES.

PLEASE NOTE THAT A MINIMUM OF FOUR WEEKS SHALL BE ALLOWED FOR THE DISTRICT TO OBTAIN THE REQUIRED WASTE SITE ENVIRONMENTAL CLEARANCES AND SIX WEEKS FOR THE REQUIRED BORROW SITE ENVIRONMENTAL CLEARANCES.

SIGNING

SIGN LOCATIONS MAY VARY FROM THE STATIONS SHOWN ON THE PLANS IN ACCORDANCE WITH DIRECTIONS FROM THE ENGINEER AT THE TIME OF CONSTRUCTION. SIGN LOCATIONS MAY BE ADJUSTED IN THE FIELD TO AVOID ANY FOUND UTILITIES.

ALL WOOD POST LOCATIONS SHALL BE VERIFIED WITH THE BUREAU OF OPERATIONS, TRAFFIC SECTION, BEFORE INSTALLATION.

PROPERTY OWNER ACCESS REQUIREMENTS

ACCESS MUST BE MAINTAINED TO ALL EXISTING PROPERTIES DURING CONSTRUCTION PER ARTICLE 107.09 UNLESS ARRANGEMENTS ARE MADE IN WRITING BY THE CONTRACTOR WITH THE PROPERTY OWNER WITH A COPY TO THE ENGINEER FOR SHORT-TERM CLOSURES.

DROP OFF POLICY

AT ANY TIME A GREATER THAN 12" DROP-OFF IS LOCATED WITHIN 8 FT OF THE EDGE OF THE NEAREST OPEN TRAFFIC LANE, THAT LANE SHALL BE CLOSED UNTIL THE DROP-OFF IS BROUGHT UP TO LESS THAN 12".

NO OVERNIGHT LANE CLOSURES WILL BE ALLOWED.

MODEL Default
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| | | | | | | | | | | | | |
|---|------------------------------|---------------------|-----------|---|-------------------------------|---------|-------------|--------------------|--------------|-------------------------------|--------------|-----------|
|  <div>TWM, INC. <small>WWW.TWM-INC.COM</small> IL DESIGN FIRM LICENSE NO: 184-001220</div> | USER NAME = dlee | DESIGNED - JCL | REVISED - | STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION | GENERAL NOTES AND COMMITMENTS | | | F.A.P RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| | DRAWN - JCL | REVIS | ED - | | | | | 543 | [(12B)BR]BRR | HENDERSON | 22 | 2 |
| | PLOT SCALE = 40,0000 * / in. | CHECKED - TBP | REVISED - | | | | | CONTRACT NO. 68K58 | | | | |
| | PLOT DATE = 11/14/2025 | DATE - OCTOBER 2025 | REVISED - | | SCALE: N/A | SHEET 1 | OF 1 SHEETS | STA. | TO STA. | ILLINOIS CONTRACT MAINTENANCE | | |

| | | | | CONSTRUCTION CODE |
|----------|---|--------|----------------|-------------------|
| | | | | 100% STATE |
| | | | | BRIDGE |
| | | | | 0047 |
| CODE NO. | PAY ITEM | UNIT | TOTAL QUANTITY | SN 036-0009 |
| 31101000 | SUBBASE GRANULAR MATERIAL, TYPE B | TON | 41 | 41 |
| | | | | |
| 35650300 | BASE COURSE WIDENING 8" | SQ YD | 176 | 176 |
| | | | | |
| 40200800 | AGGREGATE SURFACE COURSE, TYPE B | TON | 3 | 3 |
| | | | | |
| 44004250 | PAVED SHOULDER REMOVAL | SQ YD | 176 | 176 |
| | | | | |
| 50102400 | CONCRETE REMOVAL | CU YD | 14.8 | 14.8 |
| | | | | |
| 50300255 | CONCRETE SUPERSTRUCTURE | CU YD | 14.8 | 14.8 |
| | | | | |
| 50300300 | PROTECTIVE COAT | SQ YD | 30 | 30 |
| | | | | |
| 50800205 | REINFORCEMENT BARS, EPOXY COATED | POUND | 2110 | 2110 |
| | | | | |
| 50800515 | BAR SPLICERS | EACH | 24 | 24 |
| | | | | |
| 52000110 | PREFORMED JOINT STRIP SEAL | FOOT | 95 | 95 |
| | | | | |
| 67100100 | MOBILIZATION | L SUM | 1 | 1 |
| | | | | |
| 70100450 | TRAFFIC CONTROL AND PROTECTION, STANDARD 701201 | L SUM | 1 | 1 |
| | | | | |
| 70103815 | TRAFFIC CONTROL SURVEILLANCE | CAL DA | 12 | 12 |
| | | | | |
| 70106500 | TEMPORARY BRIDGE TRAFFIC SIGNALS | EACH | 1 | 1 |
| | | | | |
| 70106700 | TEMPORARY RUMBLE STRIPS | EACH | 6 | 6 |
| | | | | |
| 70107005 | PAVEMENT MARKING BLACKOUT TAPE, 5" | FOOT | 1049 | 1049 |
| | | | | |
| 70107025 | CHANGEABLE MESSAGE SIGN | CAL DA | 14 | 14 |
| | | | | |
| 70300150 | SHORT TERM PAVEMENT MARKING REMOVAL | SQ FT | 437 | 437 |
| | | | | |
| 70400100 | TEMPORARY CONCRETE BARRIER | FOOT | 437.5 | 437.5 |
| | | | | |

[illegible]

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| USER NAME = dlee | DESIGNED = JCL | REVISED = |
| | DRAWN = JCL | REVISED = |
| PLOT SCALE = 10.0000 ' / in. | CHECKED = TBP | REVISED = |
| PLOT DATE = 11/14/2025 | DATE = OCTOBER 2025 | REVISED = |

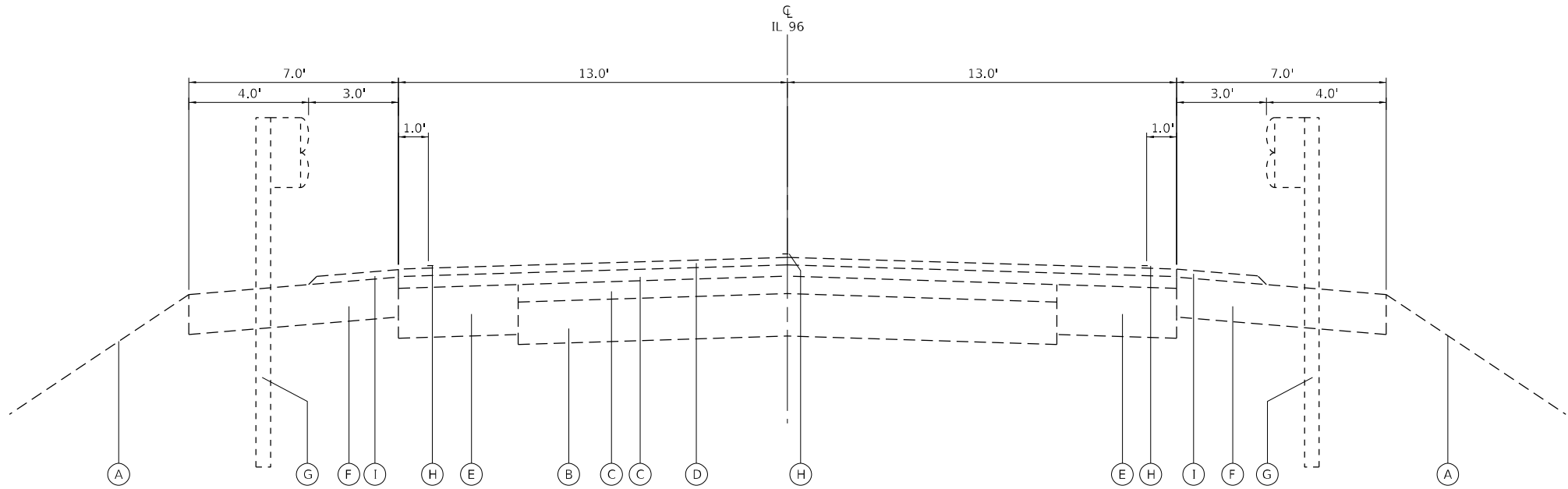
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

| | | | | | |
|------------|---------|------|--------|------|---------|
| SCALE: N/A | SHEET 1 | OF 1 | SHEETS | STA. | TO STA. |
|------------|---------|------|--------|------|---------|

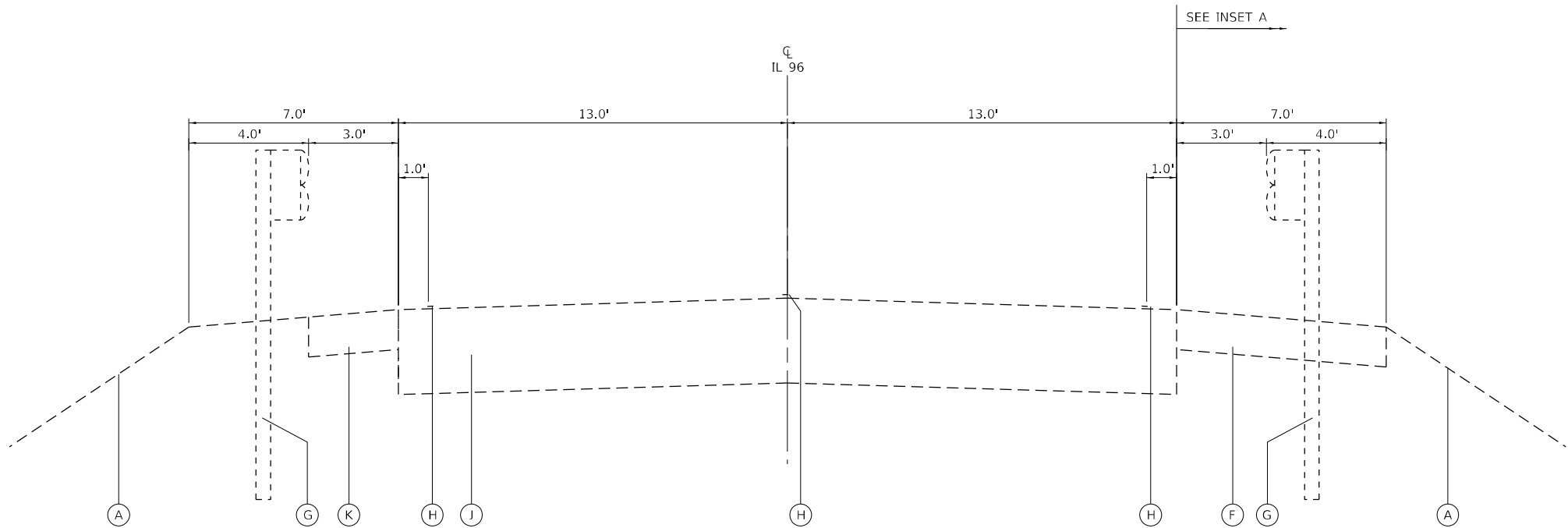
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| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 543 | [(12B)BR]BRR | HENDERSON | 22 | 3 |
| | | CONTRACT NO. 68K58 | | |
| | | ILLINOIS CONTRACT MAINTENANCE | | |

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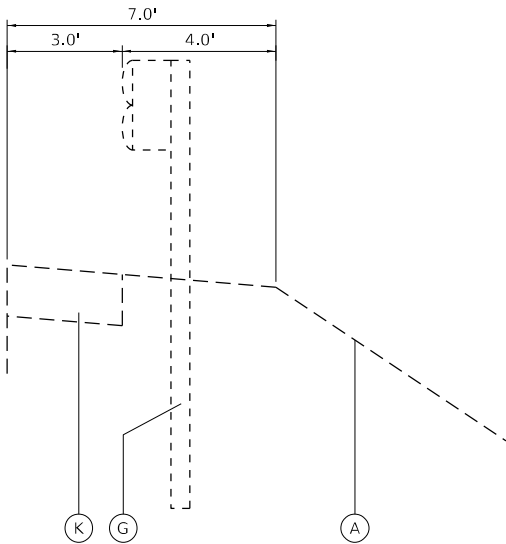
EXISTING TYPICAL SECTION

STA. 344+05.32 TO STA. 345+47.86
STA. 347+72.66 TO STA. 349+05.40



EXISTING TYPICAL SECTION

STA. 345+47.86 (LT) TO STA. 345+69.48 (LT)
STA. 345+47.86 (RT) TO STA. 345+74.98 (RT)



INSET A

STA. 345+74.98 (RT) TO STA. 345+98.55 (RT)

LEGEND

- (A) EX. EMBANKMENT
- (B) EX. AGGREGATE BASE
- (C) EX. HMA OVERLAYS
- (D) EX. HMA SURFACE COURSE, 1 1/2"
- (E) EX. HMA BASE COURSE WIDENING
- (F) EX. HMA SHOULDERS, 8"
- (G) EX. STEEL PLATE BEAM GUARDRAIL, TY A
- (H) EX. PAVEMENT MARKING
- (I) EX. HMA SHOULDERS, 1.5"
- (J) EX. PCC BRIDGE APPROACH PAVEMENT, 17"
- (K) EX. PCC APPROACH SHOULDER PAVEMENT
- (1) PR. BASE COURSE WIDENING, 8"
- (2) PR. SUBBASE GRANULAR MATERIAL TYPE B, 4"
- (3) PR. PAINT PAVEMENT MARKING - LINE 6"



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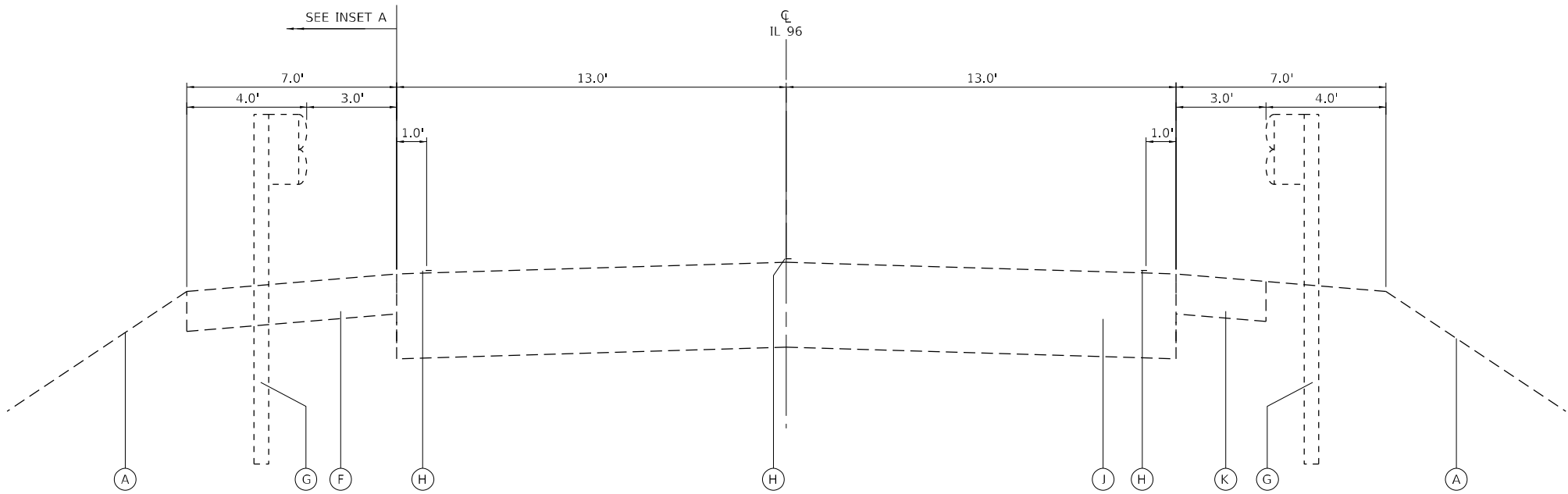
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| DRAWN - JCL | REVISED - | |
| PLOT SCALE = 10,0000' / in. | CHECKED - TBP | REVISED - |
| PLOT DATE = 11/19/2025 | DATE - OCTOBER 2025 | REVISED - |

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

TYPICAL SECTIONS

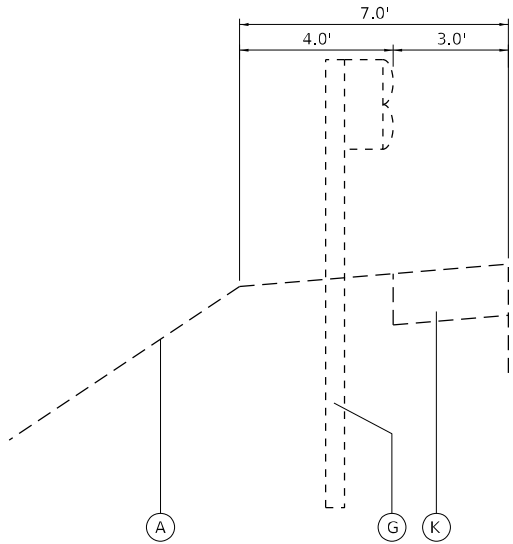
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| F.A.P RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|-------------------------------|--------------|-----------|-----------------|--------------|
| 543 | [(12B)BR]BRR | HENDERSON | 22 | 4 |
| CONTRACT NO. 68K58 | | | | |
| ILLINOIS CONTRACT MAINTENANCE | | | | |



EXISTING TYPICAL SECTION

STA. 347+43.07 (LT) TO STA. 347+72.66 (LT)
STA. 347+51.37 (RT) TO STA. 347+72.66 (RT)



INSET A

STA. 347+22.30 (LT) TO STA. 347+43.07 (LT)

LEGEND

- (A) EX. EMBANKMENT
- (B) EX. AGGREGATE BASE
- (C) EX. HMA OVERLAYS
- (D) EX. HMA SURFACE COURSE, 1 1/2"
- (E) EX. HMA BASE COURSE WIDENING
- (F) EX. HMA SHOULDERS, 8"
- (G) EX. STEEL PLATE BEAM GUARDRAIL, TY A
- (H) EX. PAVEMENT MARKING
- (I) EX. HMA SHOULDERS, 1.5"
- (J) EX. PCC BRIDGE APPROACH PAVEMENT, 17"
- (K) EX. PCC APPROACH SHOULDER PAVEMENT
- (1) PR. BASE COURSE WIDENING, 8"
- (2) PR. SUBBASE GRANULAR MATERIAL TYPE B, 4"
- (3) PR. PAINT PAVEMENT MARKING - LINE 6"

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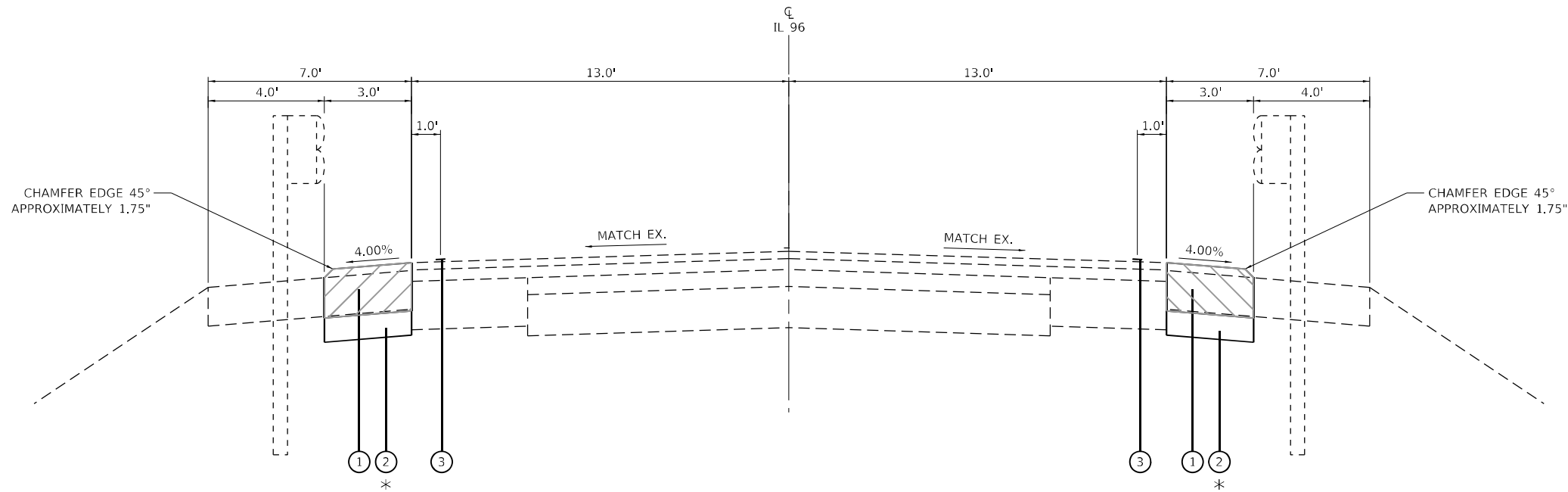
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| PLOT DATE = 11/19/2025 | DATE - OCTOBER 2025 | REVISED - |

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS

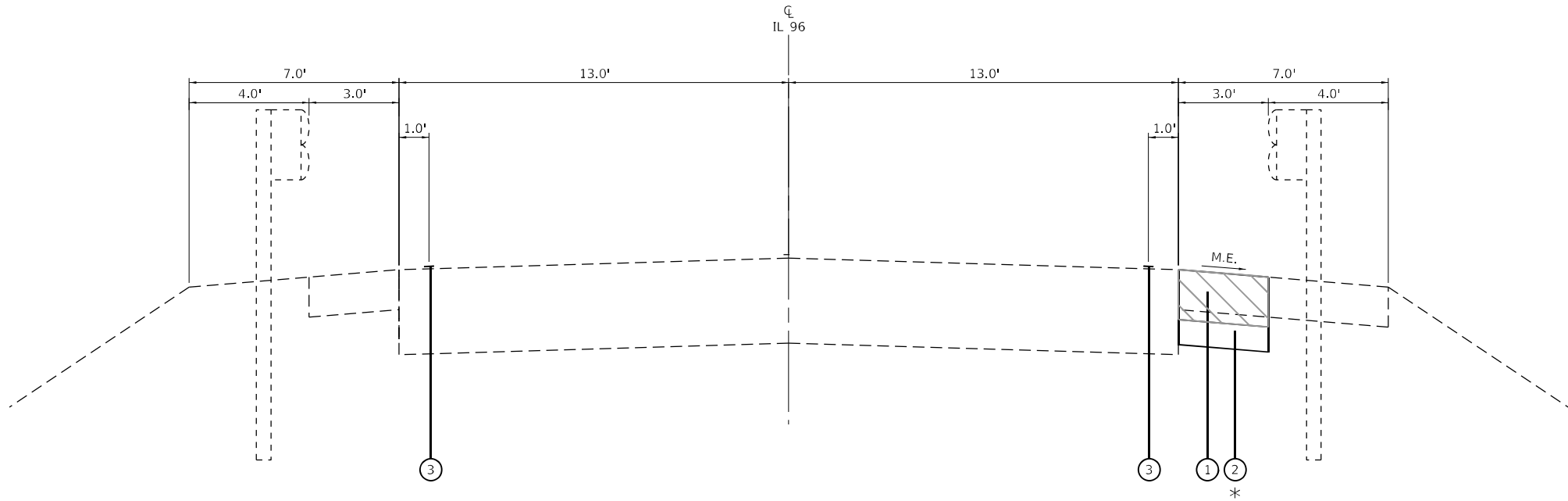
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| F.A.P RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|-------------------------------|--------------|-----------|--------------|-----------|
| 543 | [(12B)BR]BRR | HENDERSON | 22 | 5 |
| CONTRACT NO. 68K58 | | | | |
| ILLINOIS CONTRACT MAINTENANCE | | | | |



PROPOSED TYPICAL SECTION

STA. 344+05.32 (LT) TO STA. 345+47.86 (LT)
STA. 344+49.81 (RT) TO STA. 345+47.86 (RT)
STA. 347+72.66 (LT) TO STA. 349+05.40 (LT)
STA. 347+72.66 (RT) TO STA. 348+69.53 (RT)



PROPOSED TYPICAL SECTION

STA. 345+47.86 (LT) TO STA. 345+69.48 (LT)
STA. 345+47.86 (RT) TO STA. 345+74.98 (RT)

LEGEND

- (A) EX. EMBANKMENT
- (B) EX. AGGREGATE BASE
- (C) EX. HMA OVERLAYS
- (D) EX. HMA SURFACE COURSE, 1 1/2"
- (E) EX. HMA BASE COURSE WIDENING
- (F) EX. HMA SHOULDERS, 8"
- (G) EX. STEEL PLATE BEAM GUARDRAIL, TY A
- (H) EX. PAVEMENT MARKING
- (I) EX. HMA SHOULDERS, 1.5"
- (J) EX. PCC BRIDGE APPROACH PAVEMENT, 17"
- (K) EX. PCC APPROACH SHOULDER PAVEMENT
- (1) PR. BASE COURSE WIDENING, 8"
- (2) PR. SUBBASE GRANULAR MATERIAL TYPE B, 4"
- (3) PR. PAINT PAVEMENT MARKING - LINE 6"



* EARTH EX. INCLUDED IN THE UNIT
COST OF PR. SUBBASE GRANULAR
MATERIAL TYPE B, 4"

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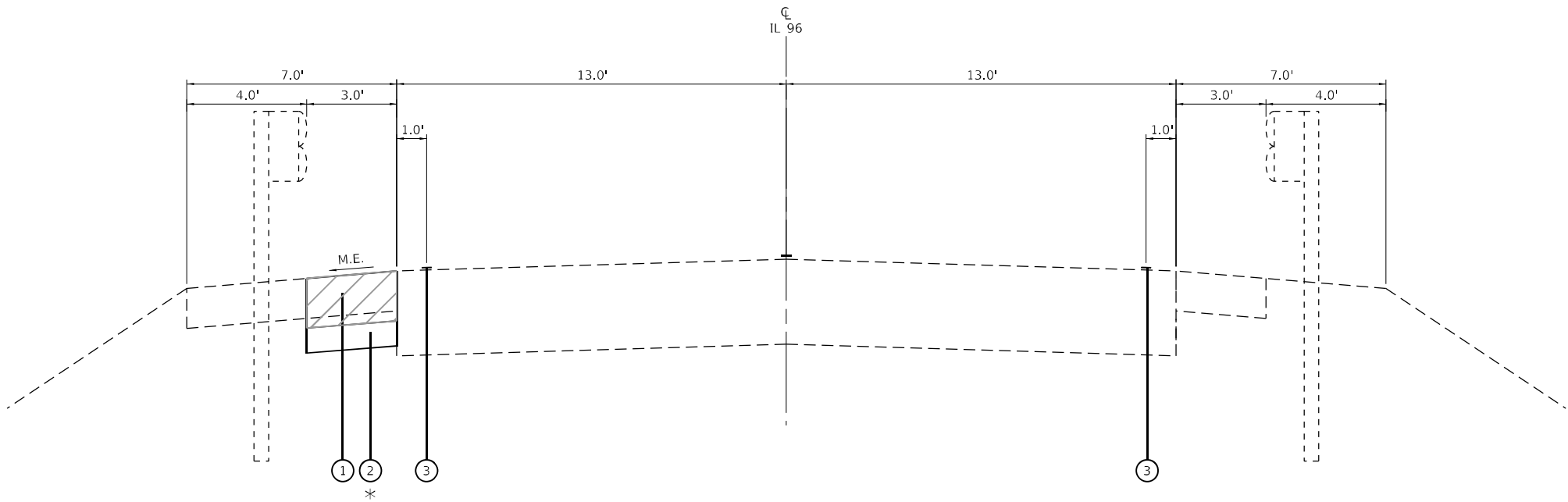
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| USER NAME = dllee | DESIGNED - JCL | REVISED - |
| | DRAWN - JCL | REVISED - |
| PLOT SCALE = 10,0000 * / in. | CHECKED - TBP | REVISED - |
| PLOT DATE = 11/19/2025 | DATE - OCTOBER 2025 | REVISED - |

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

TYPICAL SECTIONS

SCALE: 1"=5' SHEET 3 OF 4 SHEETS STA. TO STA.

| F.A.P RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|-------------------------------|--------------|-----------|-----------------|--------------|
| 543 | [(12B)BR]BRR | HENDERSON | 22 | 6 |
| CONTRACT NO. 68K58 | | | | |
| ILLINOIS CONTRACT MAINTENANCE | | | | |



PROPOSED TYPICAL SECTION

STA. 347+43.07 (LT) TO STA. 347+72.66 (LT)
STA. 347+51.37 (RT) TO STA. 347+72.66 (RT)

LEGEND

- (A) EX. EMBANKMENT
- (B) EX. AGGREGATE BASE
- (C) EX. HMA OVERLAYS
- (D) EX. HMA SURFACE COURSE, 1 1/2"
- (E) EX. HMA BASE COURSE WIDENING
- (F) EX. HMA SHOULDERS, 8"
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- (1) PR. BASE COURSE WIDENING, 8"
- (2) PR. SUBBASE GRANULAR MATERIAL TYPE B, 4"
- (3) PR. PAINT PAVEMENT MARKING - LINE 6"

 PAVED SHOULDER REMOVAL

* EARTH EX. INCLUDED IN THE UNIT
COST OF PR. SUBBASE GRANULAR
MATERIAL TYPE B, 4"

MODEL: Default
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|------------------------------|---------------------|-----------|
| USER NAME = dllee | DESIGNED - JCL | REVISED - |
| | DRAWN - JCL | REVISED - |
| PLOT SCALE = 10,0000 * / in. | CHECKED - TBP | REVISED - |
| PLOT DATE = 11/19/2025 | DATE - OCTOBER 2025 | REVISED - |

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

TYPICAL SECTIONS

SCALE: 1"=5' SHEET 4 OF 4 SHEETS STA. TO STA.

| F.A.P RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|-------------------------------|--------------|-----------|-----------------|--------------|
| 543 | [(12B)BR]BRR | HENDERSON | 22 | 7 |
| CONTRACT NO. 68K58 | | | | |
| ILLINOIS CONTRACT MAINTENANCE | | | | |

| PAVEMENT SCHEDULE | | | | | | | | |
|-------------------|----|-----------|--------------|--|-------------------------------|------------------------------|---|---|
| LOCATION | | | | SUBBASE GRANULAR MATERIAL, TYPE B | BASE COURSE WIDENING 8" | PAVED SHOULDER REMOVAL | AGGREGATE SURFACE COURSE. TYPE B | PAINT PAVEMENT MARKING - LINE 6" |
| STATION | TO | STATION | NOTES | TON | SQ YD | SQ YD | TON | FOOT |
| 344+05.32 | TO | 345+47.86 | LT | 11.1 | 47.5 | 47.5 | | |
| 344+05.32 | TO | 349+05.40 | LANE LINE LT | | | | | 500.1 |
| 344+49.81 | TO | 345+74.98 | RT | 9.7 | 41.7 | 41.7 | | |
| 344+49.81 | TO | 348+69.35 | LANE LINE RT | | | | | 419.5 |
| 347+43.07 | TO | 349+05.40 | LT | 12.6 | 54.1 | 54.1 | | |
| 347+72.66 | TO | 348+69.35 | RT | 7.5 | 32.2 | 32.2 | | |
| 348+04.78 | TO | 349+00.40 | LT | | | | 2.9 | |
| ACTUAL TOTAL: | | | | 41.0 | 175.6 | 175.6 | 2.9 | 919.6 |
| PAY TOTAL: | | | | 41 | 176 | 176 | 3 | 920 |

| TRAFFIC CONTROL AND PROTECTION SCHEDULE | | | | | | | | | |
|---|--|---|-------------------------------|---|--|----------------------------------|--|---|--|
| LOCATION | TRAFFIC CONTROL AND PROTECTION, STANDARD 701321 (SPECIAL) | TEMPORARY BRIDGE TRAFFIC SIGNALS | TEMPORARY RUMBLE STRIPS | PAVEMENT MARKING BLACKOUT TAPE, 5" | SHORT TERM PAVEMENT MARKING REMOVAL | TEMPORARY CONCRETE BARRIER | RELOCATE TEMPORARY CONCRETE BARRIER | IMPACT ATTENUATORS, TEMPORARY (NON- REDIRECTIVE), TEST LEVEL 3 | IMPACT ATTENUATORS, RELOCATE (NON- REDIRECTIVE), TEST LEVEL 3 |
| | EACH | EACH | EACH | FOOT | SQ FT | FOOT | FOOT | EACH | EACH |
| STAGE 1 | 1 | 1 | 6 | 550.7 | 229.4 | 437.5 | | 2 | |
| STAGE 2 | | | | 498.5 | 207.7 | | 362.5 | | 2 |
| ACTUAL TOTAL : | 1 | 1 | 6 | 1049.2 | 437.1 | 437.5 | 362.5 | 2 | 2 |
| PAY TOTAL : | 1 | 1 | 6 | 1049 | 437 | 437.5 | 362.5 | 2 | 2 |

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FILE NAME: P:\2023\23098A\Z - IL 96 over Dugout Creek (SN 036-0009)\A CADD - DWG\A.7 Tran\CADD_Sheets\23098A\Z-rt-schedule.dgn



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LICENSE NO:
184-001220

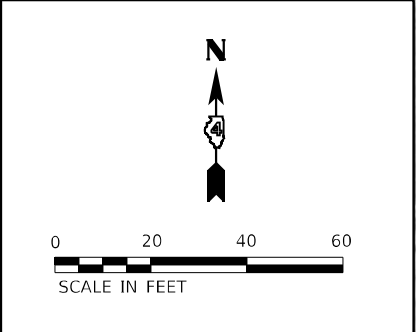
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| USER NAME = dlee | DESIGNED - JCL | REVISED - |
| | DRAWN - JCL | REVISED - |
| PLOT SCALE = 10,0000' = 1 in. | CHECKED - TBP | REVISED - |
| PLOT DATE = 11/14/2025 | DATE - OCTOBER 2025 | REVISED - |

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES

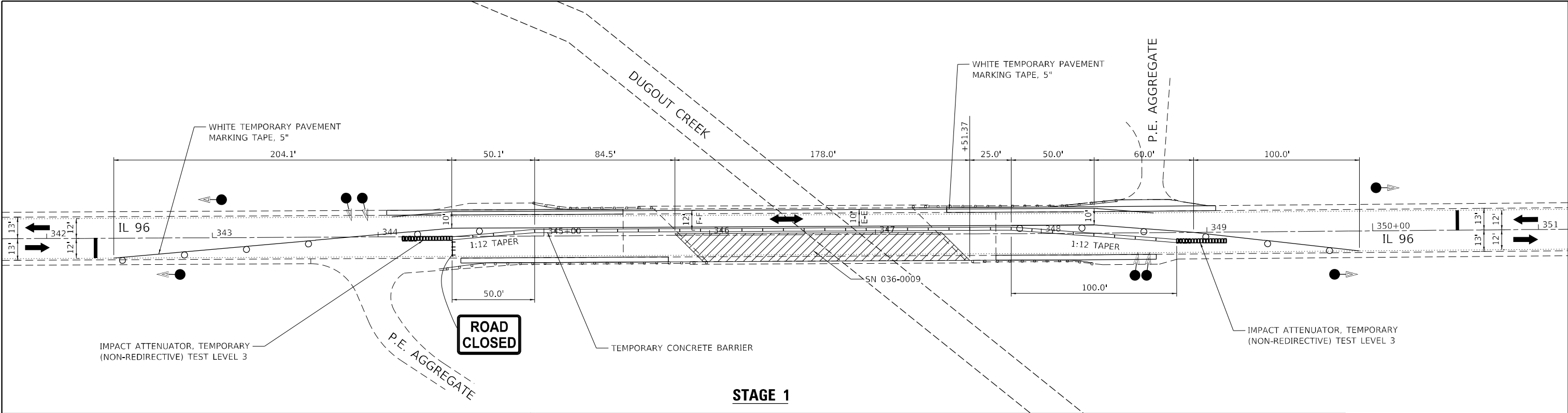
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| F.A.P RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------|--------------|-------------------------------|-----------------|--------------|
| 543 | [(12B)BR]BRR | HENDERSON | 22 | 8 |
| | | CONTRACT NO. 68K58 | | |
| | | ILLINOIS CONTRACT MAINTENANCE | | |



MODEL: Default
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| | | | | | | | | | | | | | |
|--|------------------------------|--|---------------------|-----------|---|-------------------|------|--------|--------------------|--------------|-------------------------------|--------------|-----------|
|  TWM, INC. <small>WWW.TWM-INC.COM</small> IL DESIGN FIRM LICENSE NO: 184-001220 | USER NAME = dllee | | DESIGNED - JCL | REVISED - | STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION | PLAN SHEET | | | F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
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| | PLOT SCALE = 40,0000 * / in. | | CHECKED - TBP | REVISED - | | SCALE: 1"=20' | | | CONTRACT NO. 68K58 | | | | |
| | PLOT DATE = 11/14/2025 | | DATE - OCTOBER 2025 | REVISED - | | SHEET 1 | OF 1 | SHEETS | STA. | TO STA. | ILLINOIS CONTRACT MAINTENANCE | | |



SUGGESTED STAGE CONSTRUCTION SEQUENCE

PRE-STAGE

- 1. REMOVE EXISTING SHOULDERS.
- 2. WIDEN EXISTING ROADWAY FOR STAGE 1 AND 2 TRAFFIC ACCORDING TO THE ROADWAY TYPICAL SECTIONS.
- 3. TRAFFIC CONTROL SHALL BE IN ACCORDANCE WITH STANDARD 701201.

STAGE 1

- 1. ERECT WORK ZONE TRAFFIC CONTROL FOR STAGE 1
- 2. PERFORM BRIDGE REPAIRS ACCORDING TO STRUCTURAL DETAILS.
- 3. TRAFFIC CONTROL SHALL BE IN ACCORDANCE WITH STANDARD 701321 (SPECIAL).
- 4. TRANSITION TO STAGE 2 TRAFFIC CONTROL.

STAGE 2

- 1. ERECT WORK ZONE TRAFFIC CONTROL FOR STAGE 2.
- 2. PERFORM BRIDGE REPAIRS ACCORDING TO STRUCTURAL DETAILS.
- 3. TRAFFIC CONTROL SHALL BE IN ACCORDANCE WITH STANDARD 701321 (SPECIAL).
- 4. REMOVE TRAFFIC CONTROL RELATED TO STAGE 2.

POST-STAGE

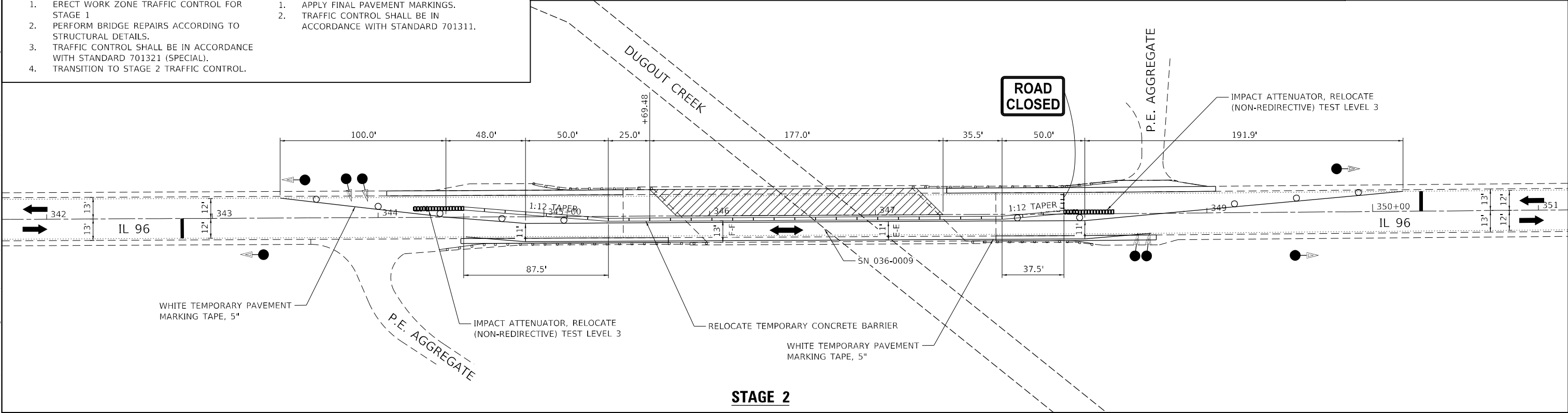
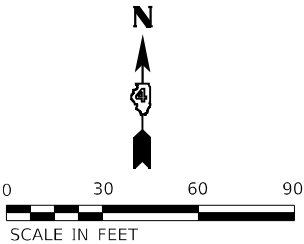
- 1. APPLY FINAL PAVEMENT MARKINGS.
- 2. TRAFFIC CONTROL SHALL BE IN ACCORDANCE WITH STANDARD 701311.

LEGEND

- WORK AREA
- TEMPORARY CONCRETE BARRIER
- TEMPORARY IMPACT ATTENUATOR
- DIRECTION OF TRAFFIC
- TYPE II BARRICADE, DRUM, OR VERTICAL BARRICADE WITH STEADY BURN BI-DIRECTIONAL LIGHT
- TRAFFIC SIGNAL
- TEMPORARY STOP BAR, 24"
- TYPE III BARRICADE W/ FLASHING LIGHTS

NOTES

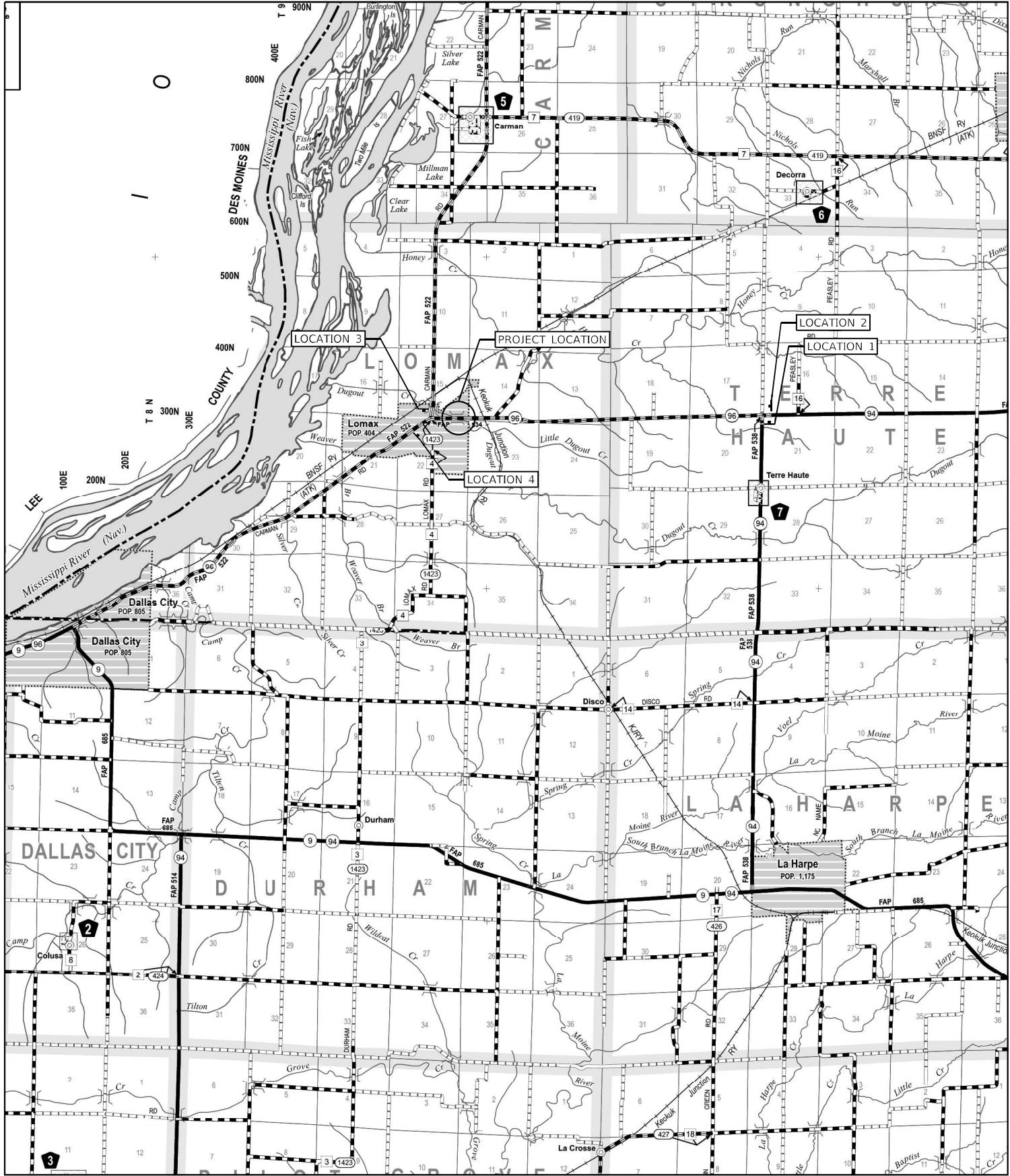
- 1. TRAFFIC CONTROL FOR STAGE 1 AND 2 SHALL BE PAID FOR AS TRAFFIC CONTROL & PROTECTION, STANDARD 701321 (SPECIAL).
- 2. SEE TYPICAL SECTIONS FOR ADDITIONAL INFO.
- 3. SEE HIGHWAY STANDARD 701321 FOR ADDITIONAL TRAFFIC CONTROL DETAILS.
- 4. TRAFFIC CONTROL MAY BE ADJUSTED DUE TO FIELD CONDITIONS AS APPROVED BY THE ENGINEER.
- 5. SEE STRUCTURE DETAILS FOR STAGE CONSTRUCTION TYPICAL SECTION.
- 6. UPON APPROVAL OF THE ENGINEER, THE TEMPORARY STOP BARS CAN BE PLACED AT THE SAME LOCATION FOR STAGES 1 AND 2.



MODEL: Default
FILE NAME: P:\2023\23098AY - IL 96 over Dugout Creek SN 036-0009\A_CADD - DWG\4.7 TranCAADD_Sheets\23098AY-IL-96-traffic_control.dgn

| | | | | | | | | | | | | | | |
|---|------------------------------|--|---------------------|-----------|---|-------------------------------------|---------|------|--------|--------------------|--------------|-------------------------------|-----------------|--------------|
| <div><div><div>TWM</div><div>ENGINEERING GEOSPATIAL SERVICES</div></div><div><div>TWM, INC.</div><div>www.twm-inc.com</div><div>IL DESIGN FIRM LICENSE NO: 184-001220</div></div></div> | USER NAME = dllee | | DESIGNED - JCL | REVISED - | STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION | STAGING PLAN – STAGE 1 & 2 IL 96 | | | | F.A.P RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| | DRAWN - JCL | | REVIS | REVISED - | | | | | | 543 | [(12B)BR]BRR | HENDERSON | 22 | 10 |
| | PLOT SCALE = 60,0000 * / in. | | CHECKED - TBP | REVISED - | | | | | | CONTRACT NO. 68K58 | | | | |
| | PLOT DATE = 11/19/2025 | | DATE - OCTOBER 2025 | REVISED - | | SCALE: 1"=30' | SHEET 1 | OF 1 | SHEETS | STA. N/A | TO STA. N/A | ILLINOIS CONTRACT MAINTENANCE | | |

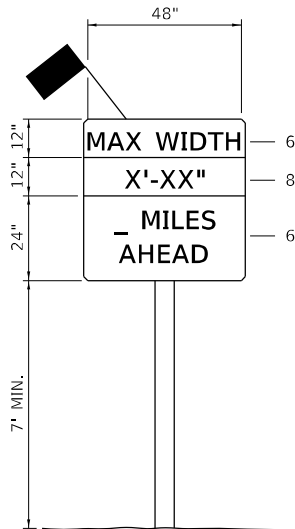
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GENERAL NOTES:

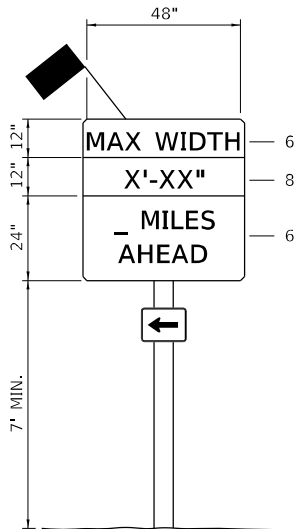
1. ACTUAL MAXIMUM WIDTH ARE TO BE MEASURED BY THE ENGINEER AFTER TEMPORARY CONCRETE BARRIER WALL IS PLACED FOR STAGE 1.
2. ALL SIGNS SHALL BE POST MOUNTED IN ACCORDANCE WITH ARTICLE 701.14 OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND THE MUTCD.
3. SEE SPECIAL PROVISIONS.

| | LOCATION | SIGNS | DISTANCE |
|---|-------------------------|-------|-----------|
| 1 | IL 94 NB AT IL 96 | B,C | 4.4 MILES |
| 2 | IL 94 WB AT IL 96 | A,C | 4.4 MILES |
| 3 | CARMAN ROAD SB AT IL 96 | B,D | 0.3 MILES |
| 4 | IL 96 EB AT CARMAN ROAD | A,D | 0.3 MILES |



SIGN A

W12-I103 (48X48)



SIGN B

W12-I103 (48X48)
W16-5P (21X15)



SIGN C

"NORTH" - M3-2 (24X12)
"IL 96" - M1-I100 (24X24)



SIGN D

"SOUTH" - M3-2 (24X12)
"IL 96" - M1-I100 (24X24)



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IL DESIGN FIRM
LICENSE NO: 184-001220

USER NAME = dllee
DESIGNED - JCL
DRAWN - JCL
PLOT SCALE = 10,0000' = 1 in.
CHECKED - TBP
DATE - OCTOBER 2025
PLOT DATE = 11/25/2025

DESIGNED - JCL
DRAWN - JCL
CHECKED - TBP
DATE - OCTOBER 2025

REVISED -
REVISED -
REVISED -
REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**FAP 543 (IL 96)
WIDTH RESTRICTION SIGNING DETAIL**

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

| F.A.P RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|-------------------------------|--------------|-----------|-----------------|--------------|
| 543 | [(12B)BR]BRR | HENDERSON | 22 | 11 |
| CONTRACT NO. 68K58 | | | | |
| ILLINOIS CONTRACT MAINTENANCE | | | | |

INDEX OF SHEETS

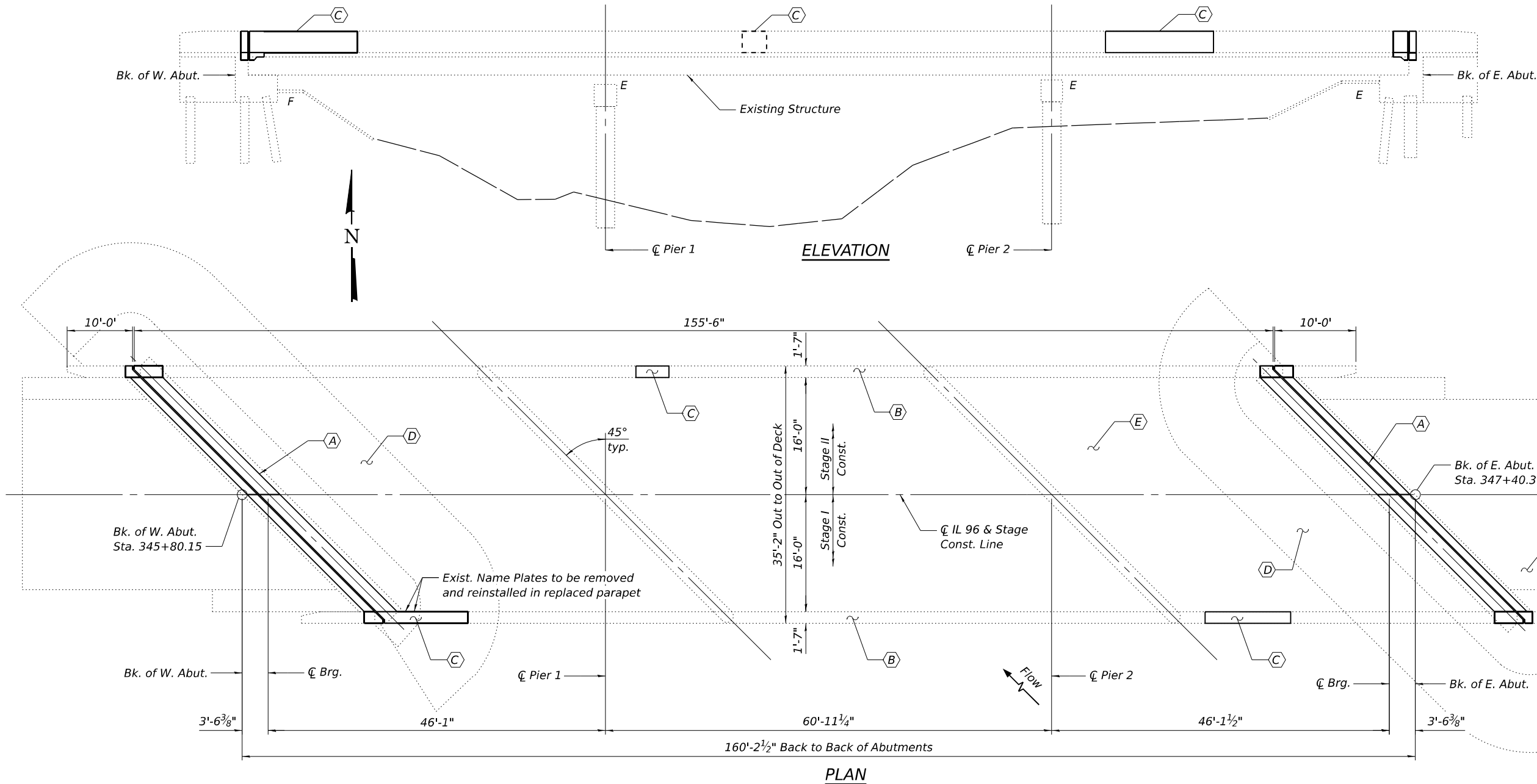
- 1 General Plan & Elevation
2 Cross Sections
3 Temporary Concrete Barrier
4-6 Abutment Joint Replacement Details
7 Preformed Joint Strip Seal
8 Deck Repair Plan
9 Parapet Repair Details
10 Slopewall Repair Details
11 Bar Splicer Assembly and Mechanical Splicer Details

DESIGN STRESSES

FIELD UNITS (New Const.)

f'c = 4,000 psi (Superstructure)

fy = 60,000 psi (Reinforcement)



GENERAL NOTES

Reinforcement bars designated (E) shall be epoxy coated.

Prior to the pouring the new concrete deck, all heavy or loose rust, loose mill scale, and other loose detrimental foreign material shall be removed from the surfaces in contact with concrete (SSPC-SP3 standards). Tightly adhered paint may remain unless otherwise noted. Removal shall be accomplished by methods that will not damage the steel and the cost will be paid for according to Article 109.04 of the Standard Specifications.

Plan dimensions and details relative to the existing structure have been taken from 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.

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 at the contractor's expense.

The deck surface shall have its final finish tined according to Article 420.09(e)(1) of the Standard Specifications. Cost included with Concrete Superstructure.

East Abutment joint opening shall be adjusted according to Article 520.04 of the Std. Specs. when the deck is poured at an ambient temperature other than 50° F.

Removal of the existing parapet protective coat is not required.

TOTAL BILL OF MATERIAL

| ITEM | UNIT | TOTAL |
|--------------------------------------|---------|-------|
| Concrete Removal | Cu. Yd. | 14.8 |
| Concrete Superstructure | Cu. Yd. | 14.8 |
| * Protective Coat | Sq. Yd. | 30 |
| Reinforcement Bars, Epoxy Coated | Pound | 2,170 |
| Bar Splicers | Each | 24 |
| Preformed Joint Strip Seal | Foot | 95 |
| Surface Filler (Special) | Gallon | 1.0 |
| ** Protective Coat (Special) | Sq. Yd. | 250 |
| Slope Wall Slurry Pumping | Cu. Yd. | 21 |
| Approach Slab Repair (Partial Depth) | Sq. Yd. | 5 |
| Deck Slab Repair (Partial) | Sq. Yd. | 3 |
| Relocating Name Plates | Each | 2 |

* Apply to new expansion joint concrete at deck grade between the parapets as well as the deck and approach slab patches.

** Apply to existing & replaced parapets from end to end of wingwalls.

- (A) — Remove and replace expansion joints at abutments
(B) — Protective Coat (Special) and Surface Filler (Special) applied to all surfaces of parapets (see Parapet Sealing Detail on sheet 9 of 11)
(C) — Remove and replace parapet (see sheet 9 of 11)
(D) — Slope wall repairs (see sheet 10 of 11)
(E) — Deck Slab Repair (Partial) and Approach Slab Repair (Partial Depth). See sheet 8 of 11.



Signed: 12/5/2025

Expires: 11/30/2026

GENERAL PLAN & ELEVATION

IL 96 OVER DUGOUT CREEK

F.A.P. 543 - SECTION [(12B)BR]BRR

HENDERSON COUNTY

STA. 346+60.26

STRUCTURE NO. 036-0009

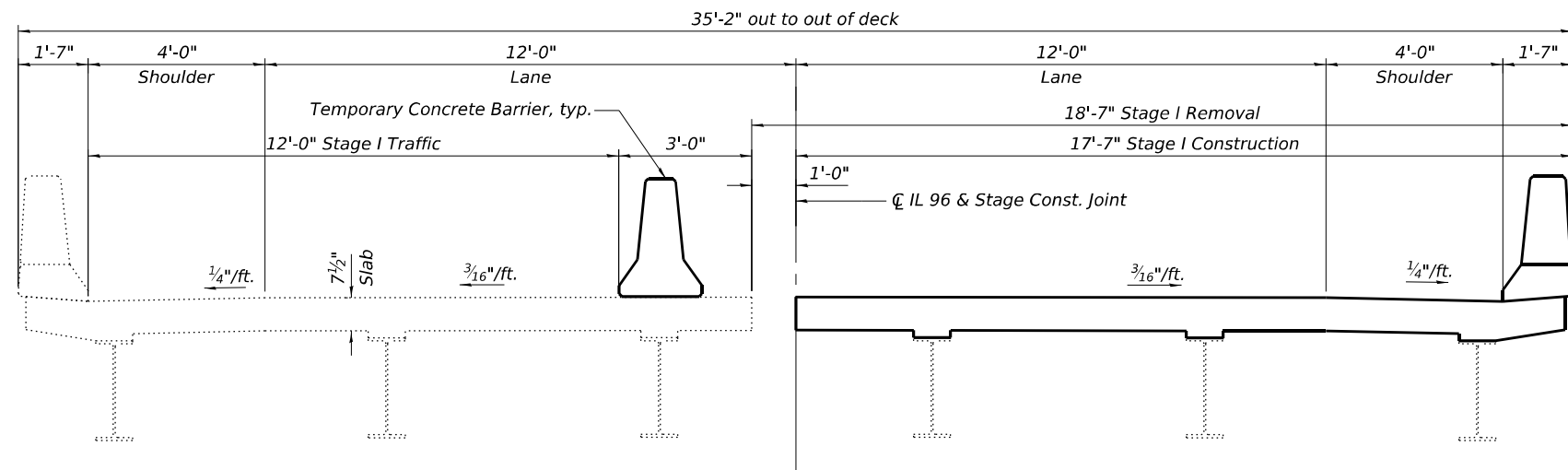
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL PLAN & ELEVATION
STRUCTURE NO. 036-0009

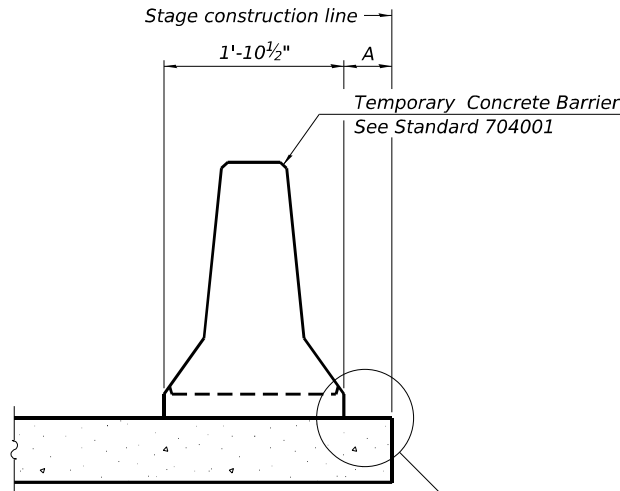
SHEET 1 OF 11 SHEETS

| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------------|--------------|-----------|--------------|-----------|
| 543 | [(12B)BR]BRR | HENDERSON | 22 | 12 |
| CONTRACT NO. 68K58 | | | | |
| ILLINOIS FED. AID PROJECT | | | | |

| | | | | | |
|--------------|--------------|------------|-----|-----------|--|
| USER NAME = | mhoerner | DESIGNED - | LAB | REVISED - | |
| | | CHECKED - | JBE | REVISED - | |
| PLOT SCALE = | 0.167' / in. | DRAWN - | LAB | REVISED - | |
| PLOT DATE = | 12/5/2025 | CHECKED - | JBE | REVISED - | |

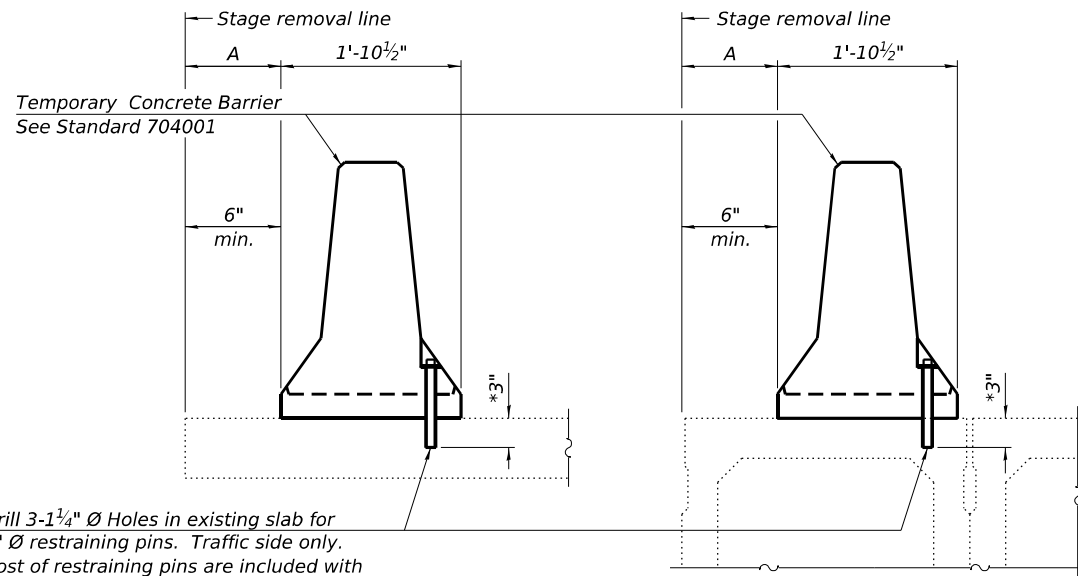


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12/5/2025 11:33:13 AM



When "A" is 3'-1" or less, the temporary concrete barrier shall be restrained to the new slab according to Detail I, II or III. No restraint is required when "A" is greater than 3'-1".

NEW SLAB OR NEW DECK BEAM

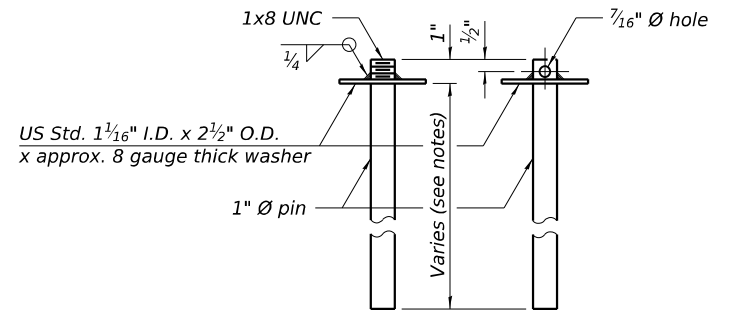


Drill 3-1 1/4" Ø Holes in existing slab for 1" Ø restraining pins. Traffic side only. Cost of restraining pins is included with Temporary Concrete Barrier. No restraint is required when "A" is greater than 3'-1".

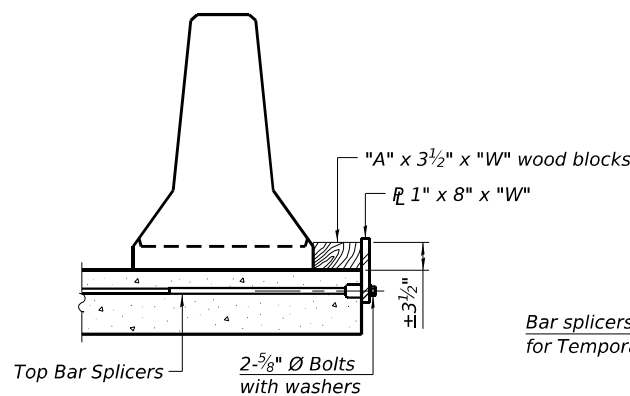
EXISTING SLAB

* When hot-mix asphalt wearing surface is present, embedment shall be 3" plus the wearing surface depth.

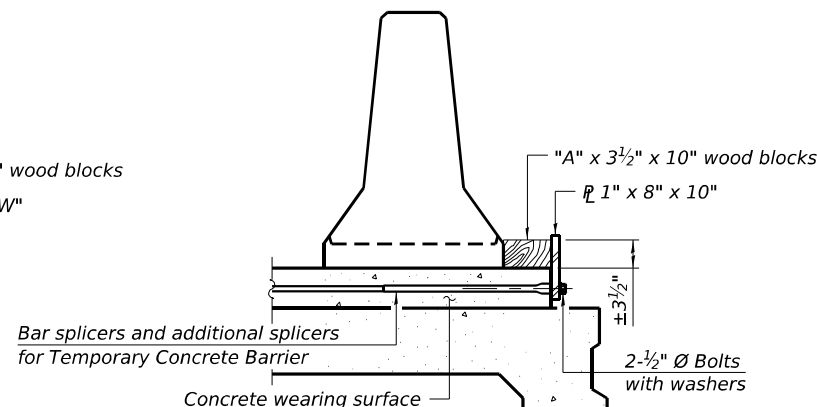
EXISTING DECK BEAM



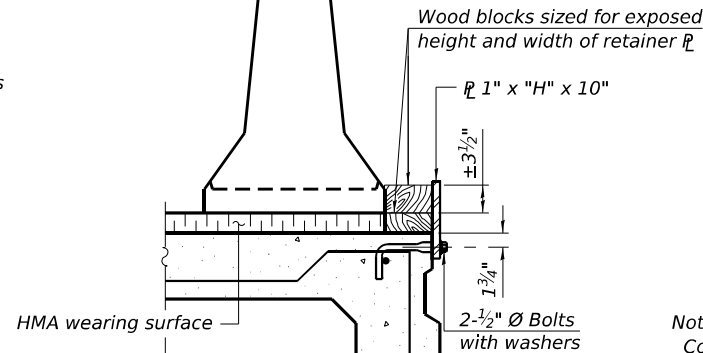
RESTRAINING PIN



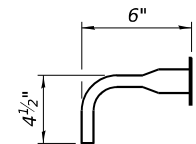
DETAIL I



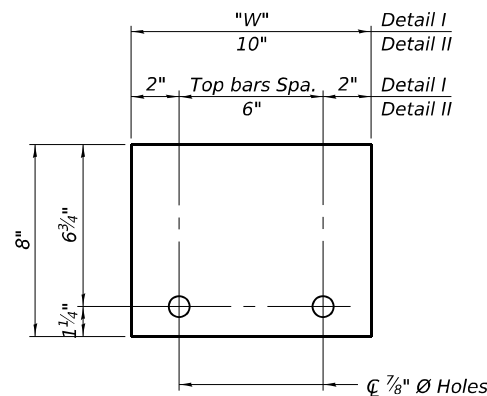
DETAIL II



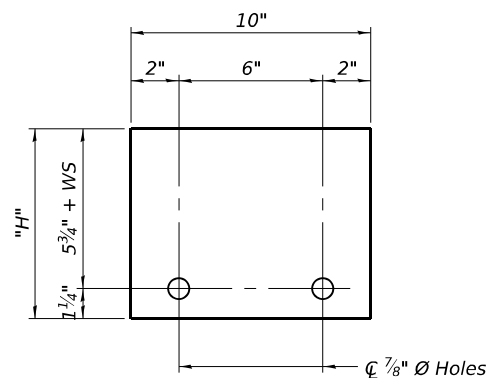
DETAIL III



BAR SPLICER FOR #4 BAR - DETAIL III



STEEL RETAINER 1" x 8" x "W"
(Detail I and II)



STEEL RETAINER 1" x "H" x 10"
(Detail III)

Notes:
Cost of retainer assembly is included with Temporary Concrete Barrier.
A retainer assembly shall be located at the approximate C of each temporary concrete barrier.
The retainer plate shall not be removed until the concrete on the adjacent stage is ready to be poured. For Detail III applications the retainer plate shall not be removed until just prior to placing the adjacent beam.
When the 'A' dimension is less than 1 1/2", the wood block shall be omitted and the barrier shall be placed in direct contact with the steel retainer plate. For deck beam applications the minimum required 'A' distance is 6" to accommodate the shear key clamping device.

Detail I - Installation for a new bridge deck or bridge slab.

Detail II - Installation for a new deck beam with an initial concrete wearing surface. Additional bar splicers shall be provided at 6'-0" centers and paired with the bar splicers of the concrete wearing surface reinforcement to accommodate the installation of the retainer assemblies. The cost of the additional bar splicers is included with the concrete wearing surface.

Detail III - Installation for a new deck beam with no initial wearing surface or with an initial hot-mix asphalt (HMA) wearing surface present. The deck beam directly beneath the temporary concrete barrier shall be fabricated with bar splicer inserts in the side of the beam, as detailed, to accommodate the installation of the retainer assemblies. A pair of bar splicers, 6" apart, shall be placed at 6'-0" centers along the length of the beam. The cost of the bar splicers is included with the deck beam.

RAILING CRITERIA

| | |
|----------------------|-----|
| NCHRP 350 Test Level | 3 |
| Railing Weight (plf) | 440 |

R-27

5-15-2023



TWM, INC.
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IL DESIGN FIRM
LICENSE NO:
184-001220

| | |
|--------------|--------------|
| USER NAME = | mhoerner |
| DESIGNED - | LAB |
| CHECKED - | JBE |
| PLOT SCALE = | 0.167' / in. |
| DRAWN - | LAB |
| PLOT DATE = | 12/5/2025 |
| CHECKED - | JBE |
| REVISED - | |

| | |
|------------|-----|
| DESIGNED - | LAB |
| CHECKED - | JBE |
| DRAWN - | LAB |
| CHECKED - | JBE |
| REVISED - | |

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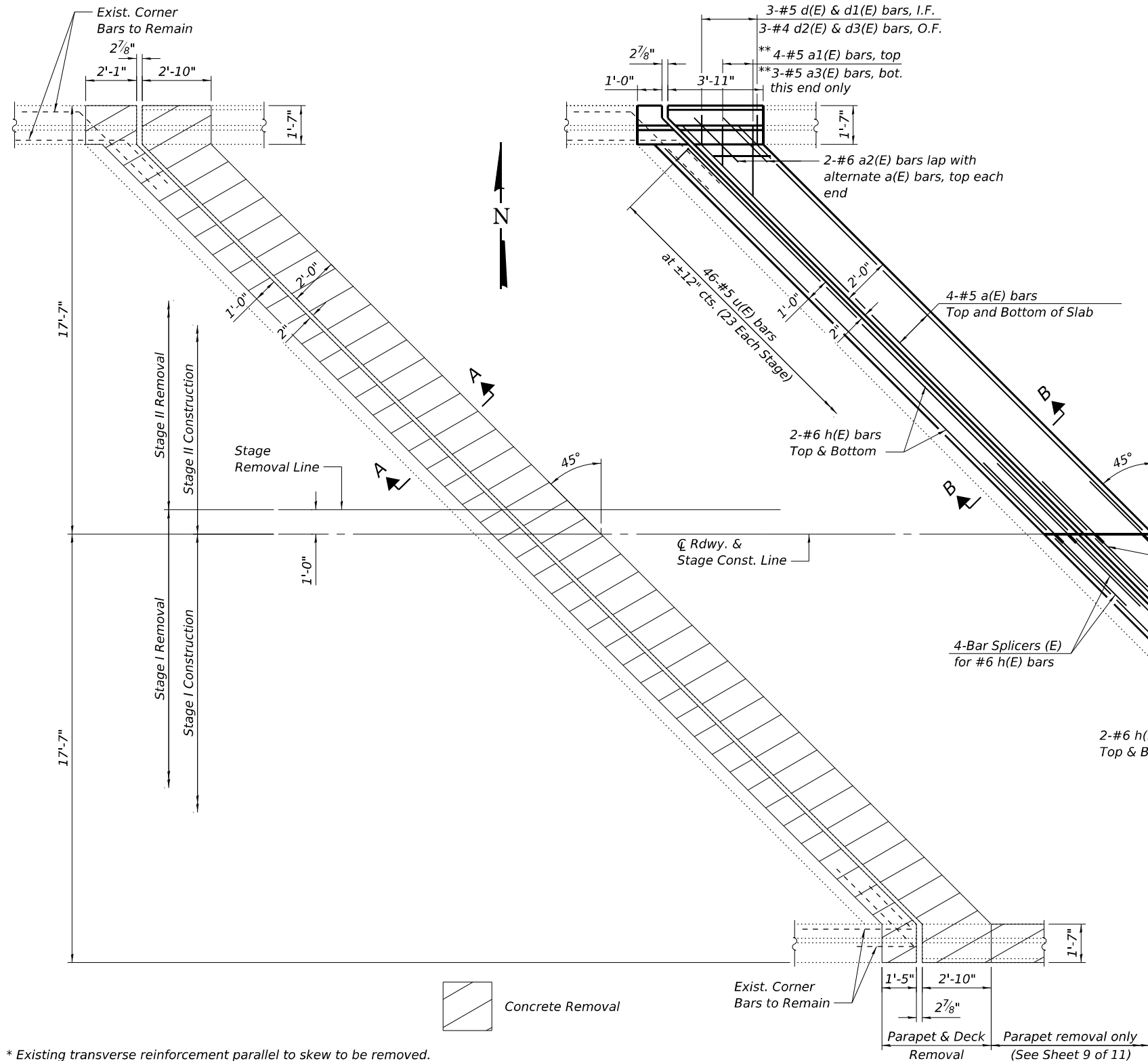
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY CONCRETE BARRIER
STRUCTURE NO. 036-0009

SHEET 3 OF 11 SHEETS

| | | | | |
|---------------------------|--------------|-----------|--------------|-----------|
| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 543 | [(12B)BR]BRR | HENDERSON | 22 | 14 |
| CONTRACT NO. 68K58 | | | | |
| ILLINOIS FED. AID PROJECT | | | | |

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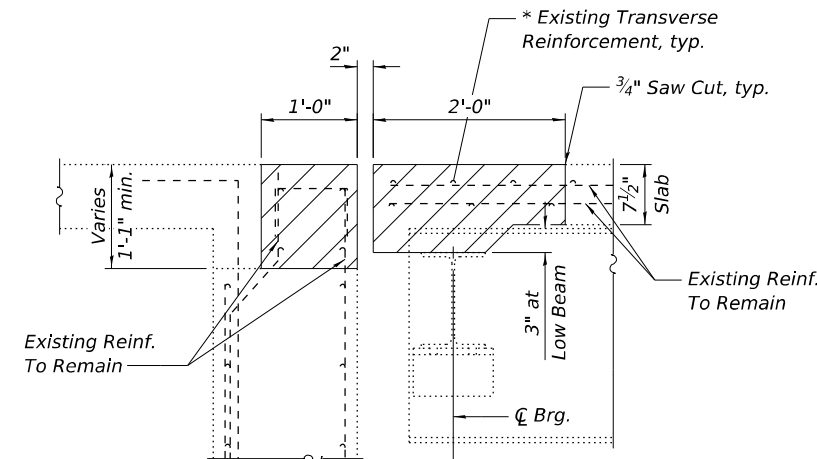


W. ABUT. CONCRETE REMOVAL PLAN

* Existing transverse reinforcement parallel to skew to be removed.
Existing transverse reinforcement perpendicular to roadway to remain.

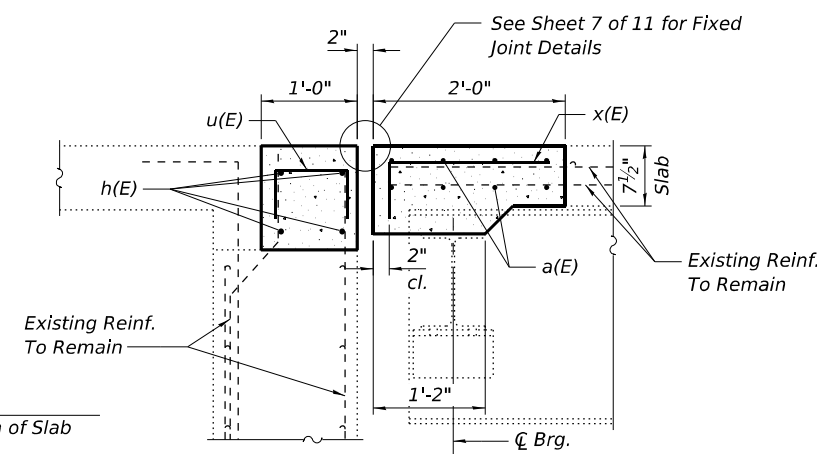
** Cut bars to fit skew and use remainder of bars in opposite corner at East Abutment.

Notes:
See Sheet 6 of 11 for parapet details & Bill of Material
See Sheet 11 of 11 for Bar Splicer details



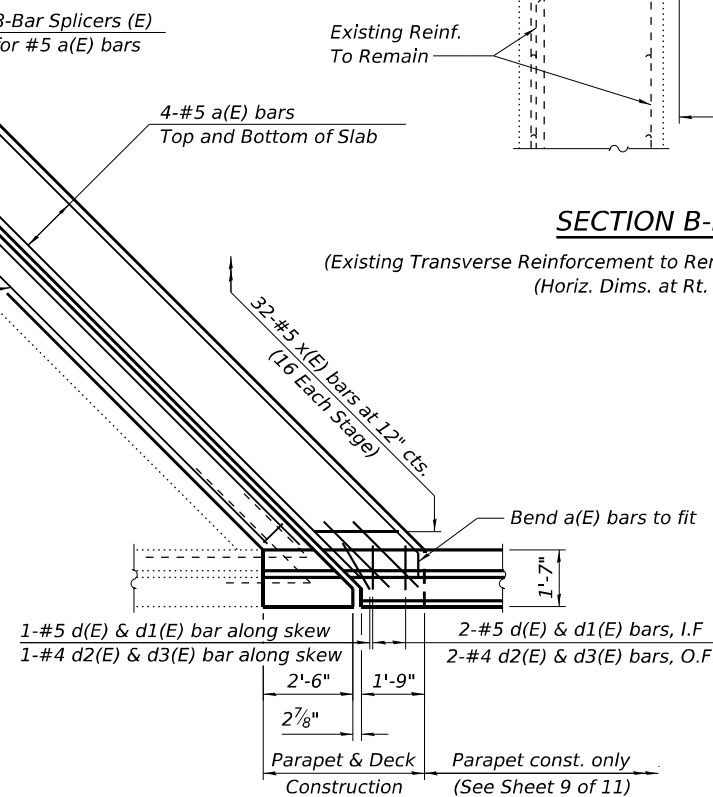
SECTION A-A

(Horiz. Dims. at Rt. L's)



SECTION B-B

(Existing Transverse Reinforcement to Remain Not Shown for Clarity)
(Horiz. Dims. at Rt. L's)



W. ABUT. CONCRETE REPLACEMENT PLAN



TWM, INC.
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IL DESIGN FIRM
LICENSE NO:
184-001220

| | | | | | |
|--------------|--------------|------------|-----|-----------|--|
| USER NAME = | mhoerner | DESIGNED - | JMM | REVISED - | |
| | | CHECKED - | JBE | REVISED - | |
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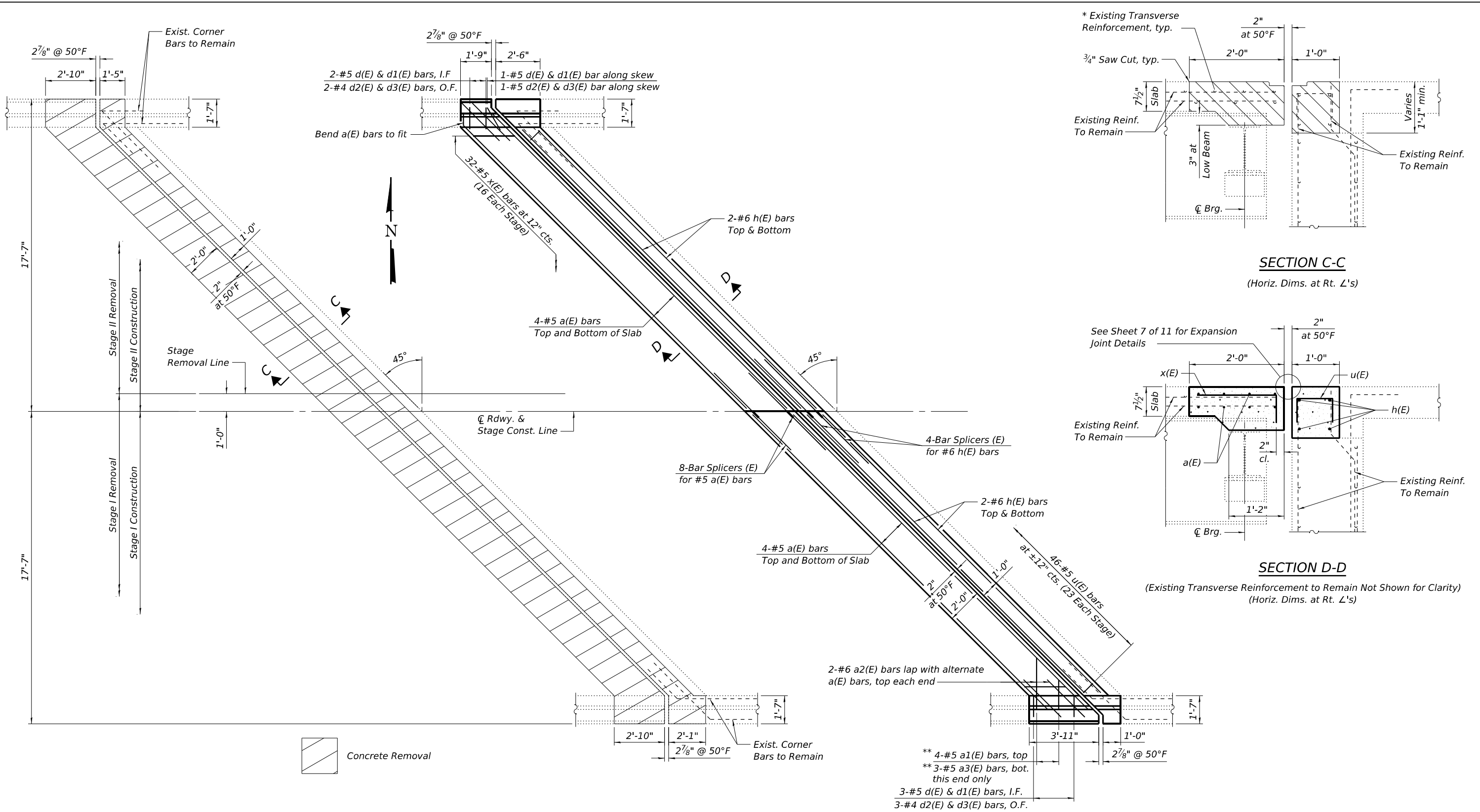
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WEST ABUTMENT JOINT REPLACEMENT DETAILS
STRUCTURE NO. 036-0009

SHEET 4 OF 11 SHEETS

| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------------|--------------|-----------|--------------|-----------|
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| ILLINOIS FED. AID PROJECT | | | | |

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IL DESIGN FIRM
LICENSE NO:
184-001220

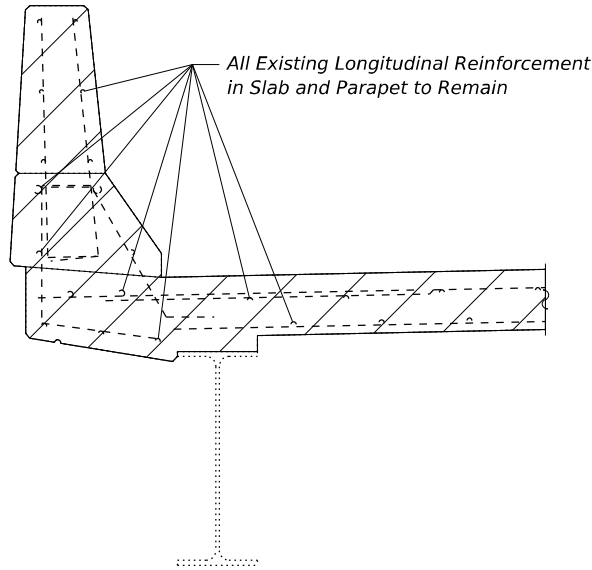
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| PLOT DATE = | 12/5/2025 | CHECKED - | JBE | REVISED - | |

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

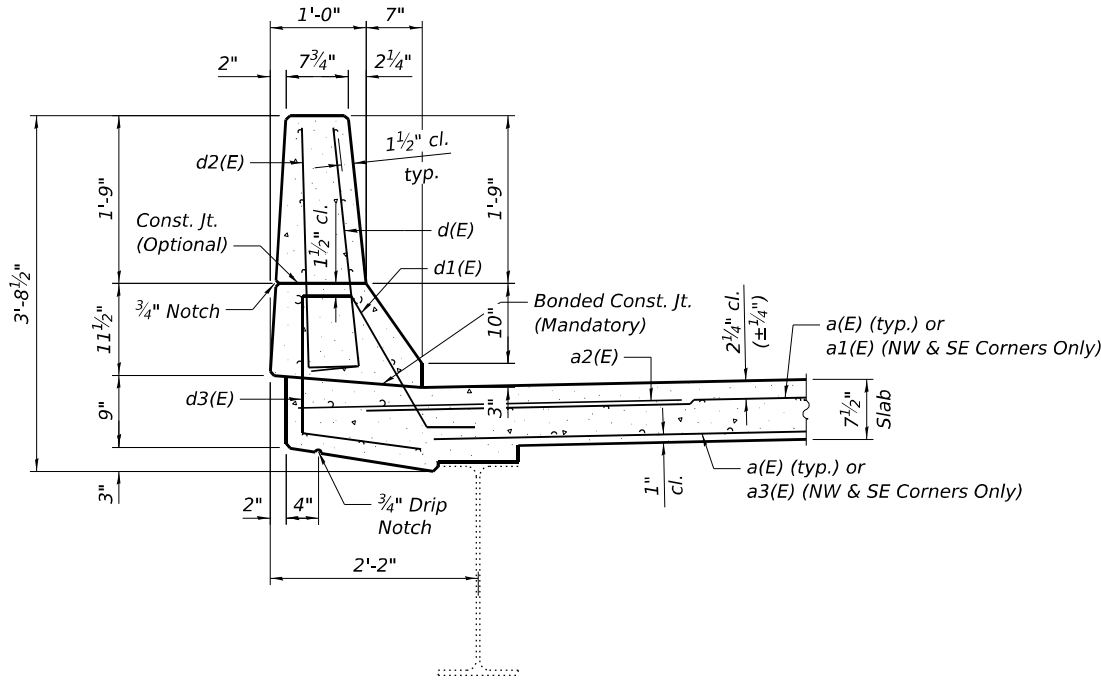
EAST ABUTMENT JOINT REPLACEMENT DETAILS
STRUCTURE NO. 036-0009

SHEET 5 OF 11 SHEETS

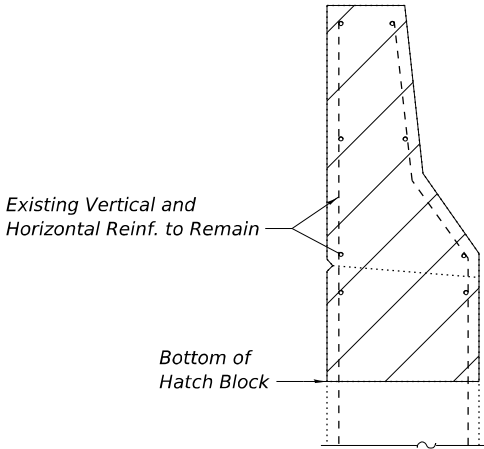
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| CONTRACT NO. 68K58 | | | | |
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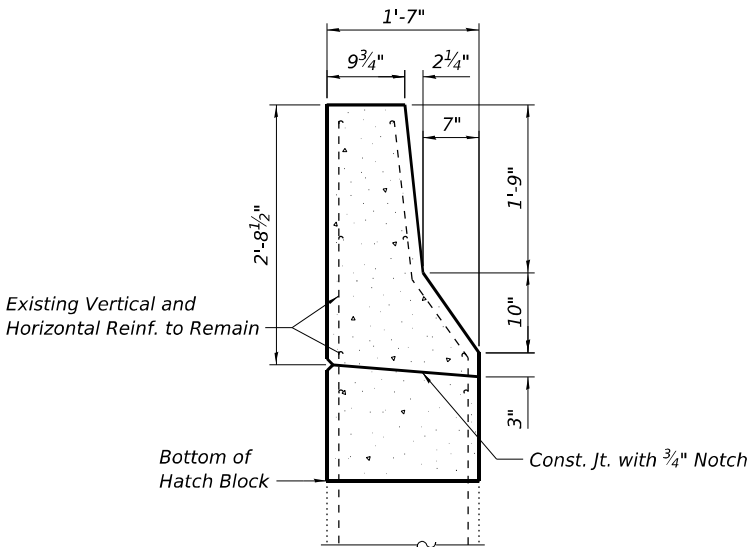
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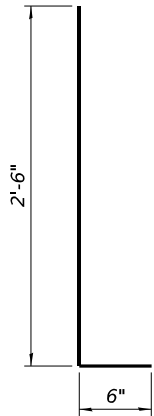
SECTION THRU PARAPET AT DECK
(Proposed)



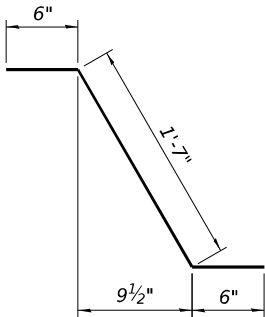
SECTION THRU WINGWALL PARAPET



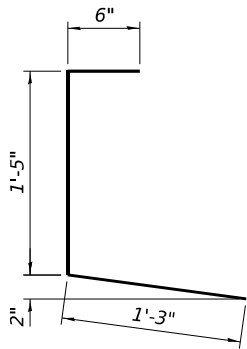
SECTION THRU WINGWALL PARAPET



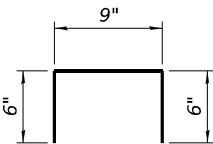
BARS d(E) & d2(E)



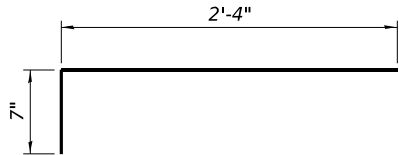
BAR d1(E)



BAR d3(E)



BAR u(E)



BAR x(E)

BILL OF MATERIAL - TWO ABUTMENTS

| Bar | No. | Size | Length | Shape |
|----------------------------------|-----|------|---------|-------|
| a(E) | 32 | #5 | 23'-3" | |
| a1(E) | 8 | #5 | 4'-4" | |
| a2(E) | 8 | #6 | 3'-5" | |
| a3(E) | 6 | #5 | 3'-2" | |
| d(E) | 12 | #5 | 3'-0" | |
| d1(E) | 12 | #5 | 2'-7" | |
| d2(E) | 12 | #4 | 3'-0" | |
| d3(E) | 12 | #4 | 3'-2" | |
| h(E) | 16 | #6 | 22'-3" | |
| u(E) | 92 | #5 | 1'-9" | |
| x(E) | 64 | #5 | 2'-11" | |
| Concrete Removal | | | Cu. Yd. | 12.5 |
| Concrete Superstructure | | | Cu. Yd. | 12.5 |
| Reinforcement Bars, Epoxy Coated | | | Pound | 1,890 |

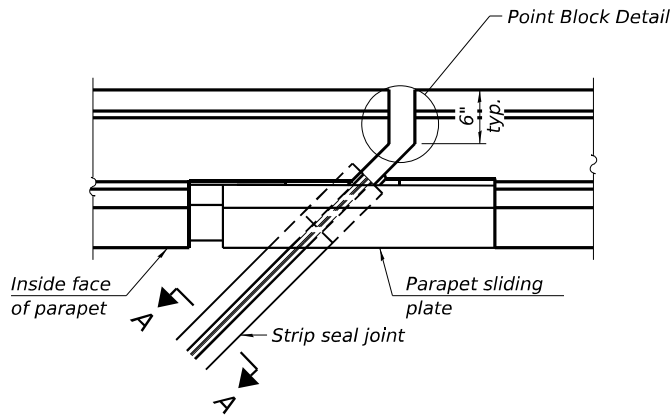
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ABUTMENT JOINT REPLACEMENT DETAILS
STRUCTURE NO. 036-0009

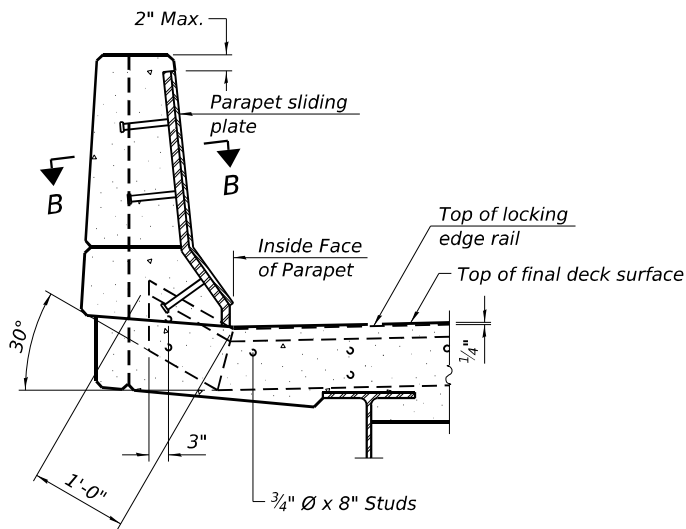
SHEET 6 OF 11 SHEETS

| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------------|--------------|-----------|--------------|-----------|
| 543 | [(12B)BR]BRR | HENDERSON | 22 | 17 |
| CONTRACT NO. 68K58 | | | | |
| ILLINOIS FED. AID PROJECT | | | | |

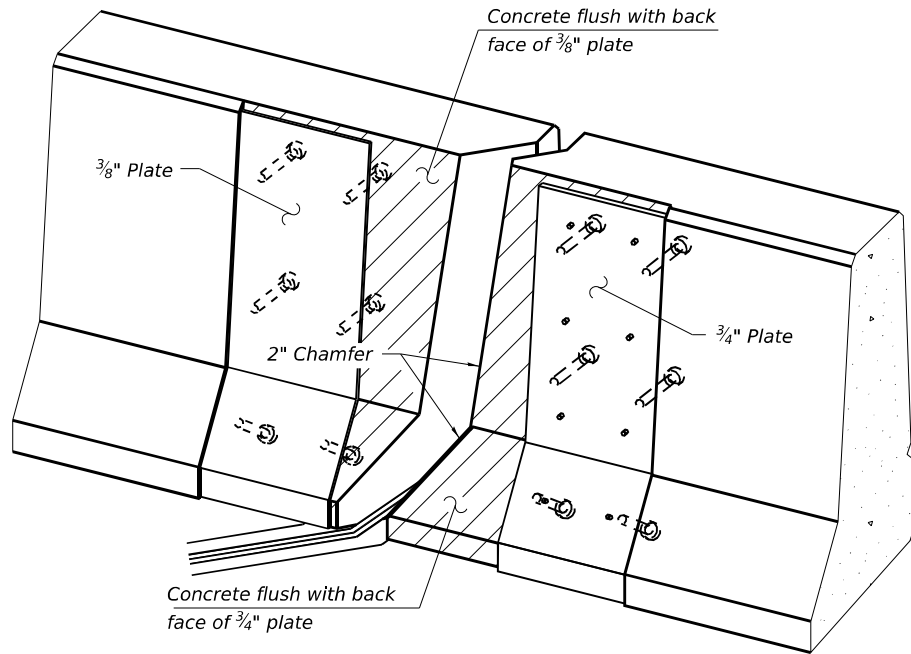
| | | | | | |
|--------------|--------------|------------|-----|-----------|--|
| USER NAME = | mhoerner | DESIGNED - | JMM | REVISED - | |
| | | CHECKED - | JBE | REVISED - | |
| PLOT SCALE = | 0.167' / in. | DRAWN - | JMM | REVISED - | |
| PLOT DATE = | 12/5/2025 | CHECKED - | JBE | REVISED - | |



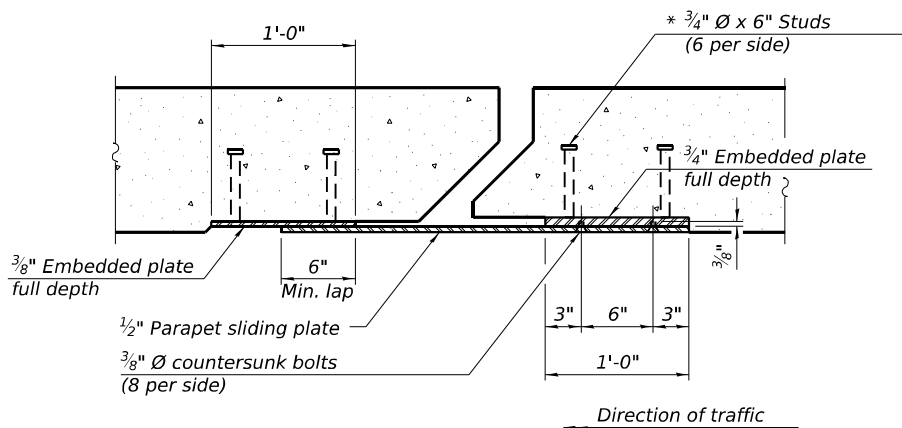
PLAN AT PARAPET



SECTION AT PARAPET



TRIMETRIC VIEW
(Showing embedded plates only)



SECTION B-B

Notes:

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

The Locking Edge Rails depicted are conceptual only, except for the minimum dimensions shown. The actual configuration of the Locking Edge Rails and matching strip seal may vary from manufacturer to manufacturer. Flanged edge rails will not be allowed.

The manufacturer's recommended installation methods shall be followed.

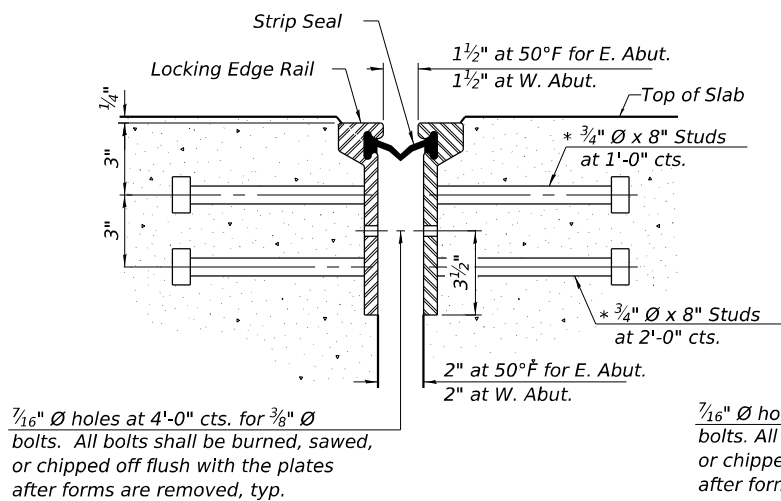
The joint opening and deck dimensions detailed on the superstructure are based on a rolled rail expansion joint. If the Contractor elects to use the welded rail expansion joint, the opening and deck dimensions shall be modified according to the dimensions detailed on this sheet. Required modifications shall be made at no additional cost to the State.

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

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

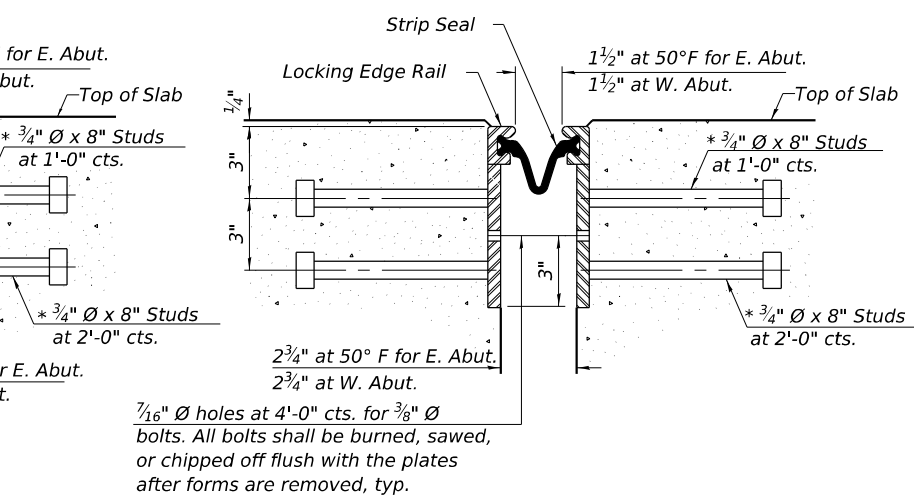
Cost of parapet sliding plates, embedded plates, and anchorage studs included with Preformed Joint Strip Seal.

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.



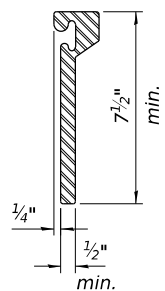
SECTION THRU
ROLLED RAIL JOINT

$\frac{7}{16}$ " \varnothing holes at 4'-0" cts. for $\frac{3}{8}$ " \varnothing bolts. All bolts shall be burned, sawed, or chipped off flush with the plates after forms are removed, typ.

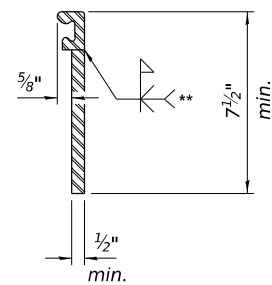


SECTION THRU
WELDED RAIL JOINT

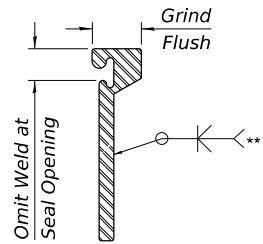
* Granular or solid flux filled headed studs conforming to Article 1006.32 of the Std. Specs., automatically end welded.



ROLLED
EXTRUDED RAIL



WELDED RAIL



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 | 95 |

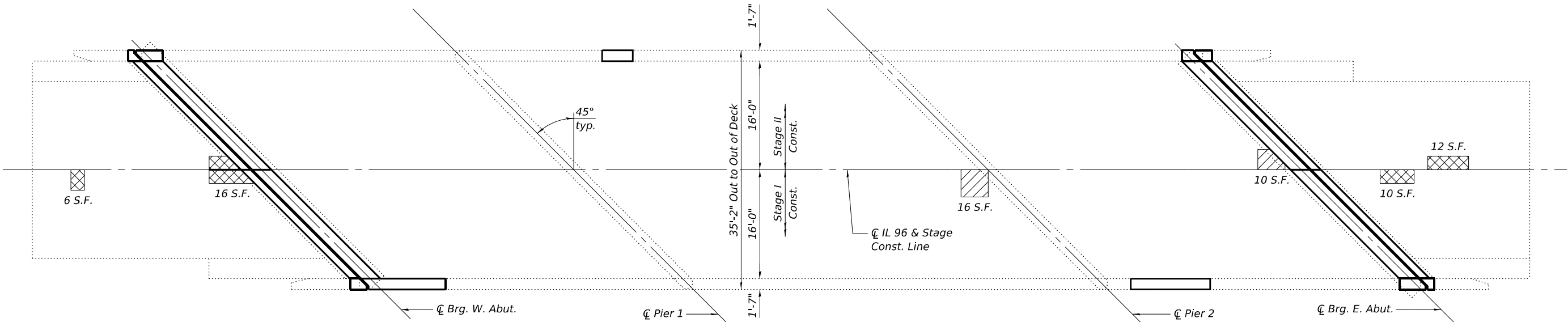
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



PREFORMED JOINT STRIP SEAL
STRUCTURE NO. 036-0009

SHEET 7 OF 11 SHEETS

| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------------|--------------|-----------|--------------|-----------|
| 543 | [(12B)BR]BRR | HENDERSON | 22 | 18 |
| CONTRACT NO. 68K58 | | | | |
| ILLINOIS FED. AID PROJECT | | | | |

MODEL: Default
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12/5/2025 11:56:15 AM



-  Deck Slab Repair (Partial)
-  Approach Slab Repair (Partial Depth)

PLAN

Notes:
Areas of deck repairs shown are estimated.
The Engineer shall show actual locations and
size of deck repairs on As-built Plans.

BILL OF MATERIAL

| ITEM | UNIT | TOTAL |
|--------------------------------------|---------|-------|
| Approach Slab Repair (Partial Depth) | Sq. Yd. | 5 |
| Deck Slab Repair (Partial) | Sq. Yd. | 3 |



TWM, INC.
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IL DESIGN FIRM
LICENSE NO:
184-001220

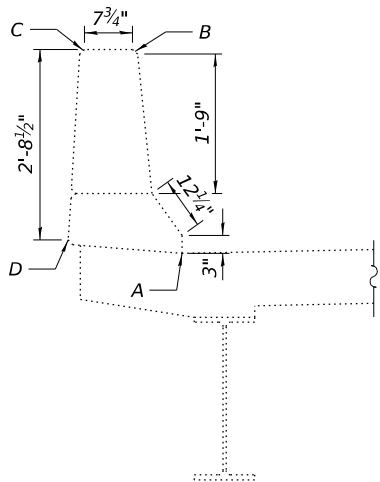
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|--------------|--------------|------------|-----|-----------|--|
| USER NAME = | mhoerner | DESIGNED - | JMM | REVISED - | |
| | | CHECKED - | JBE | REVISED - | |
| PLOT SCALE = | 0.167' / in. | DRAWN - | JMM | REVISED - | |
| PLOT DATE = | 12/5/2025 | CHECKED - | JBE | REVISED - | |

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

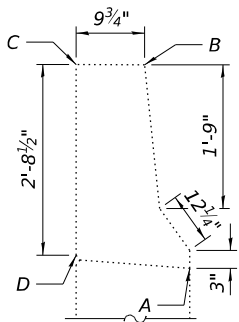
DECK REPAIR PLAN
STRUCTURE NO. 036-0009

SHEET 8 OF 11 SHEETS

| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------------|--------------|-----------|--------------|-----------|
| 543 | [(12B)BR]BRR | HENDERSON | 22 | 19 |
| CONTRACT NO. 68K58 | | | | |
| ILLINOIS FED. AID PROJECT | | | | |



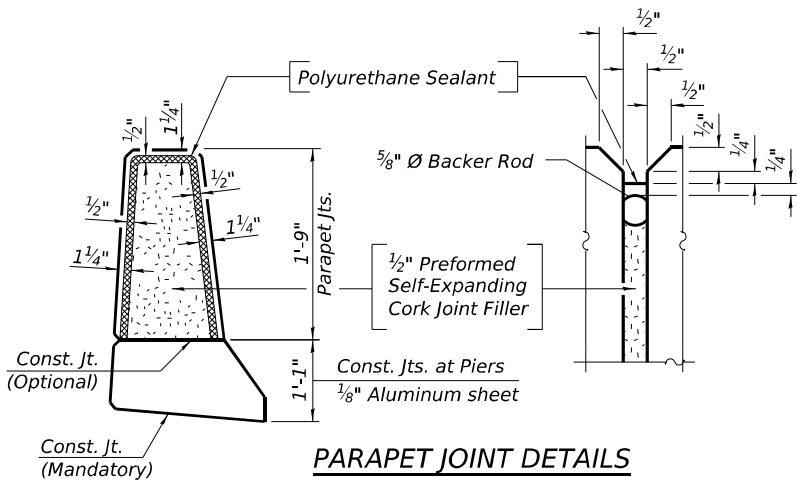
SHOWING PARAPET AT DECK



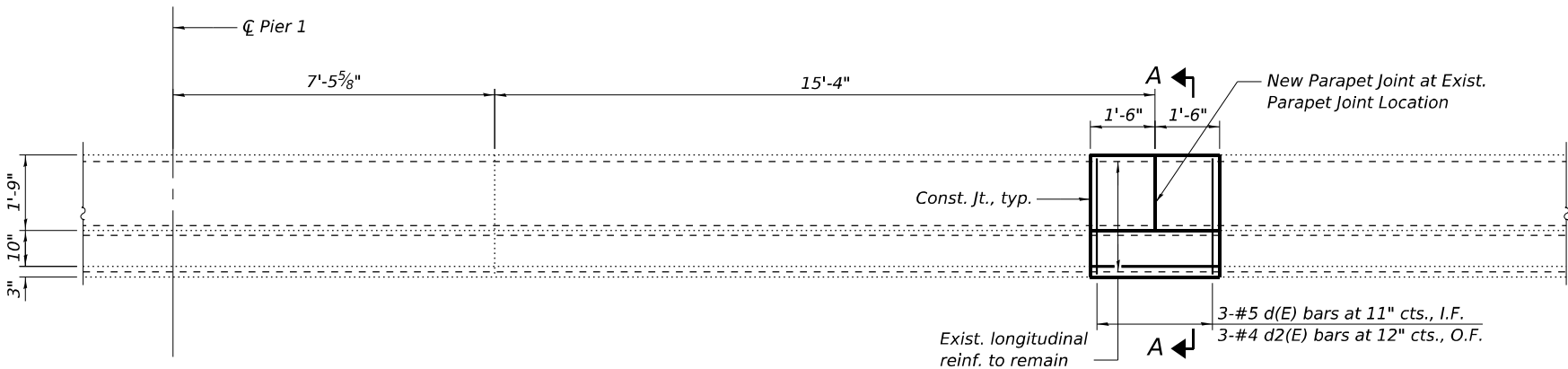
SHOWING PARAPET AT WINGWALL

PARAPET SEALING DETAIL

Protective Coat (Special) to cover from Point A through Points B, C, and D of the existing and replaced parapet segments.



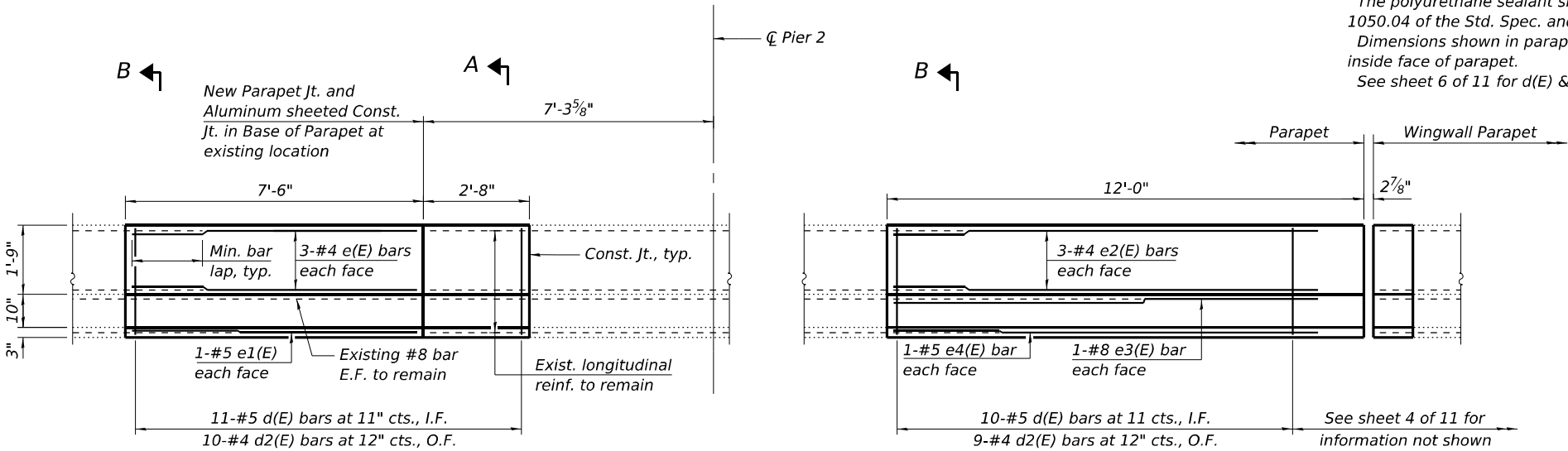
PARAPET JOINT DETAILS



PARTIAL INSIDE ELEVATION OF NORTH PARAPET

(Looking North)
(Existing vertical reinforcement not shown for clarity)

Notes:
The 1/8 inch aluminum sheet shall be ASTM B 209 alloy 3003-H14 and coated with 5 mils of either bitumen paint or epoxy paint to minimize reaction with wet concrete. Cost included with Concrete Superstructure.
The polyurethane sealant shall be according to Article 1050.04 of the Std. Spec. and the color shall be gray.
Dimensions shown in parapet elevations are along inside face of parapet.
See sheet 6 of 11 for d(E) & d2(E) bar bending diagram.

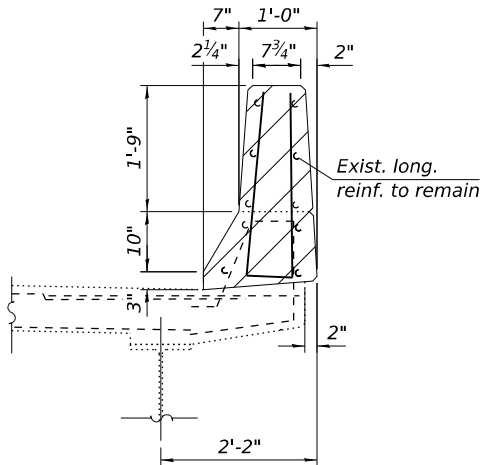


PARTIAL INSIDE ELEVATION OF SOUTH PARAPET

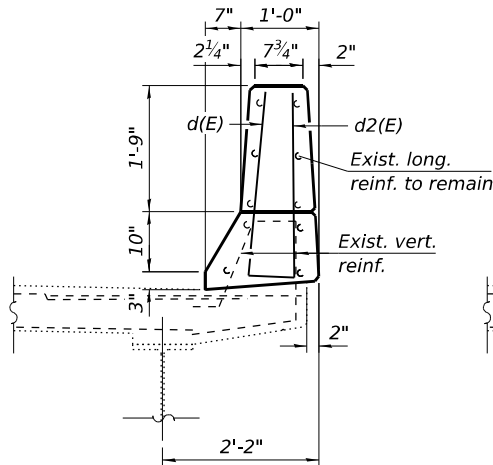
(Looking South)
(Existing vertical reinforcement not shown for clarity)

MINIMUM BAR LAP

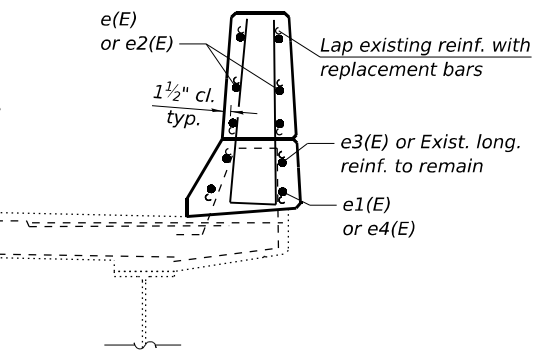
#4 Bar = 2'-0"
#5 Bar = 2'-10"
#8 Bar = 6'-5"



SECTION A-A (REMOVAL)



SECTION A-A (REPLACEMENT)



SECTION B-B

(See Section A-A for information not shown)

BILL OF MATERIAL

| Bar | No. | Size | Length | Shape |
|----------------------------------|-----|------|---------|-------|
| d(E) | 24 | #5 | 3'-0" | |
| d2(E) | 22 | #4 | 3'-0" | |
| e(E) | 6 | #4 | 7'-2" | |
| e1(E) | 2 | #5 | 7'-2" | |
| e2(E) | 6 | #4 | 10'-7" | |
| e3(E) | 2 | #8 | 10'-7" | |
| e4(E) | 2 | #5 | 10'-7" | |
| Concrete Removal | | | Cu. Yd. | 2.3 |
| Concrete Superstructure | | | Cu. Yd. | 2.3 |
| Reinforcement Bars, Epoxy Coated | | | Pound | 280 |

MODEL: Default
FILE NAME: P:\2023\230994Z - IL 98 over Dugout Creek (SN 036-0009)\4 CADD - DWG\4.4 Struc\0360009-68K58-009-Parapet Repair Details.dgn
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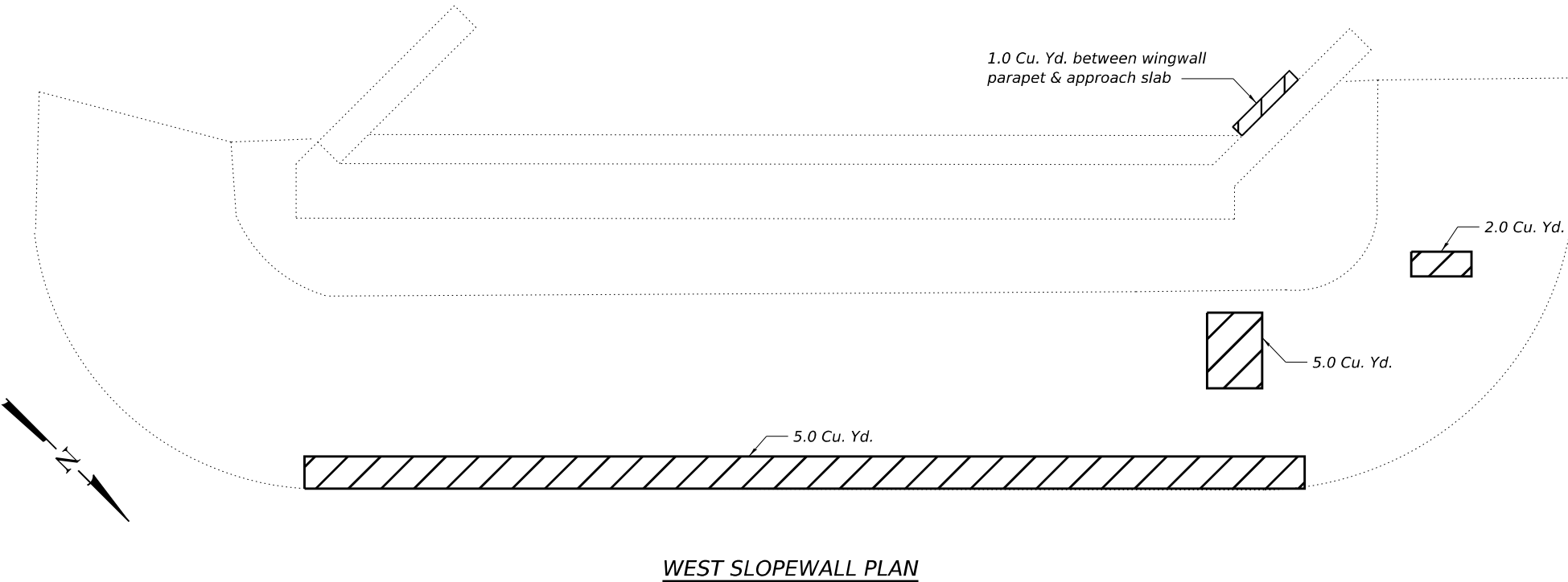
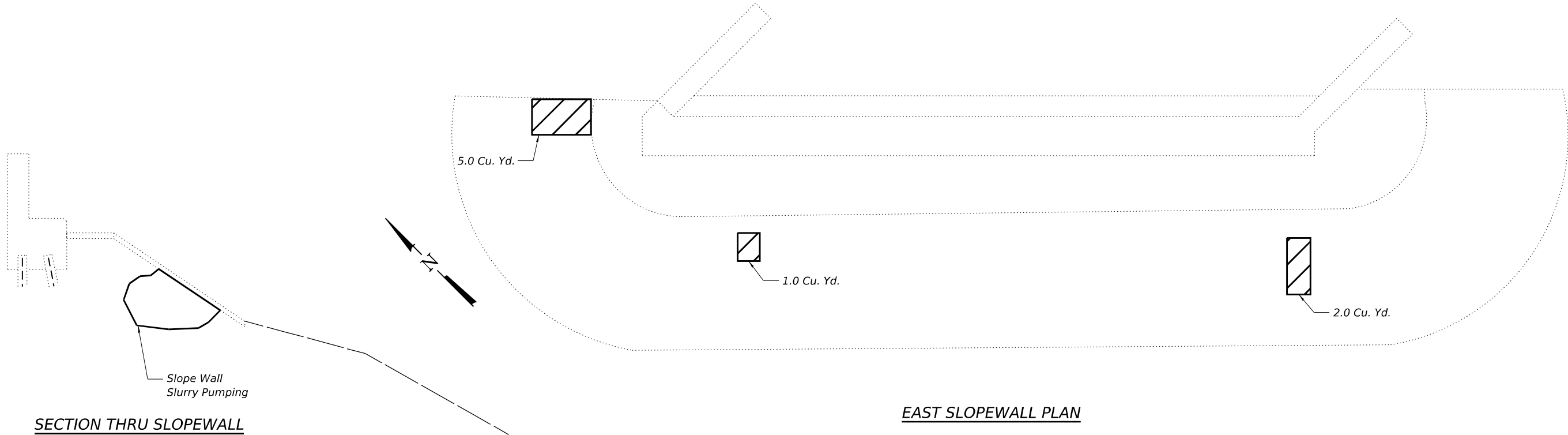
| | | |
|---------------------------|----------------|-----------|
| USER NAME = mhoerner | DESIGNED - LAB | REVISED - |
| PLOT SCALE = 0.167' / in. | CHECKED - JBE | REVISED - |
| PLOT DATE = 12/5/2025 | DRAWN - LAB | REVISED - |
| | CHECKED - JBE | REVISED - |


STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PARAPET REPAIR DETAILS
STRUCTURE NO. 036-0009

SHEET 9 OF 11 SHEETS

| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------------|--------------|-----------|--------------|-----------|
| 543 | [(12B)BR]BRR | HENDERSON | 22 | 20 |
| CONTRACT NO. 68K58 | | | | |
| ILLINOIS FED. AID PROJECT | | | | |



 Slope Wall Slurry Pumping

| BILL OF MATERIAL | | | |
|---------------------------|---------|-------|----|
| ITEM | UNIT | TOTAL | |
| Slope Wall Slurry Pumping | Cu. Yd. | 22 | 21 |

Volumes of Slope Wall Slurry Pumping shown are estimated

MODEL: Default
FILE NAME: P:\2023\230994Z - IL 96 over Dugout Creek (SN 036-0009)\4 CADD - DWG\4.4 Struct\0360009-68K58-010-Slopewall Repair Details.dgn
12/5/2025 12:02:27 PM



TWM, INC.
www.twm-inc.com
IL DESIGN FIRM
LICENSE NO: 184-001220

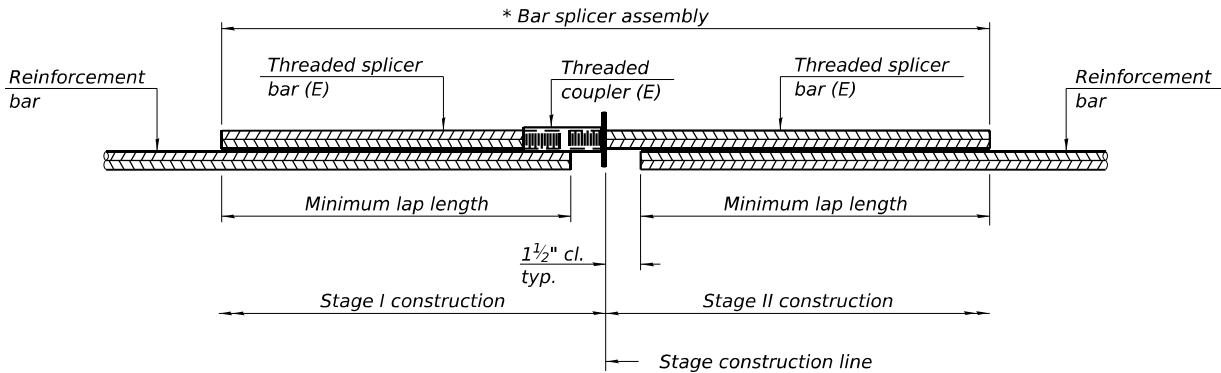
| | | | | | |
|--------------|--------------|------------|-----|-----------|--|
| USER NAME = | mhoerner | DESIGNED - | LAB | REVISED - | |
| | | CHECKED - | JBE | REVISED - | |
| PLOT SCALE = | 0.167' / in. | DRAWN - | LAB | REVISED - | |
| PLOT DATE = | 12/5/2025 | CHECKED - | JBE | REVISED - | |

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SLOPEWALL REPAIR DETAILS
STRUCTURE NO. 036-0009

SHEET 10 OF 11 SHEETS

| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|--------------------|--------------|-----------|------------------|-----------|
| 543 | [(12B)BR]BRR | HENDERSON | 22 | 21 |
| CONTRACT NO. 68K58 | | | | |
| | | ILLINOIS | FED. AID PROJECT | |



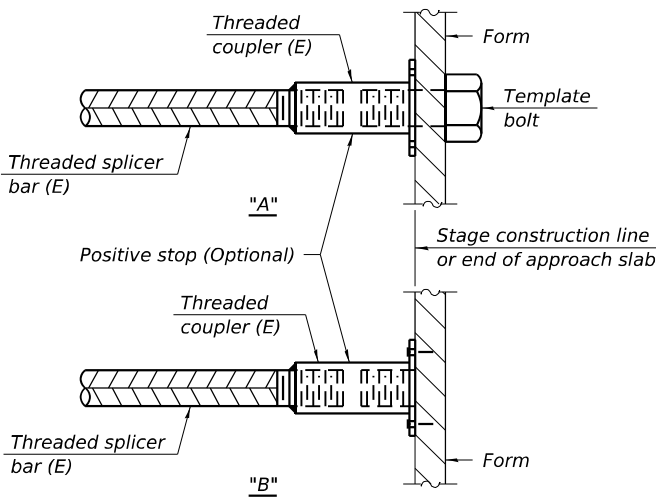
STANDARD BAR SPLICER ASSEMBLY PLAN

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 |
|-------------------|----------|-------------------------|--------------------|
| Abut. Hatch Block | #6 | 8 | 3'-11" |
| Deck | #5 | 16 | 3'-10" |

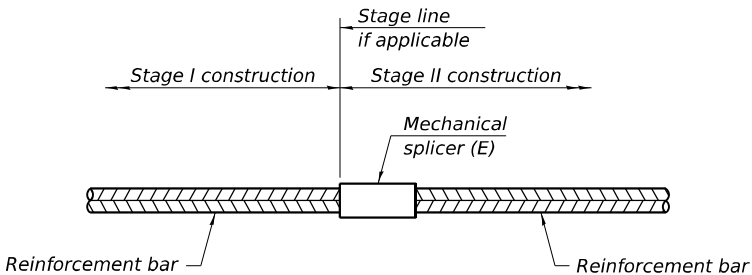


INSTALLATION AND SETTING METHODS

"A" : Set bar splicer assembly by means of a template bolt.

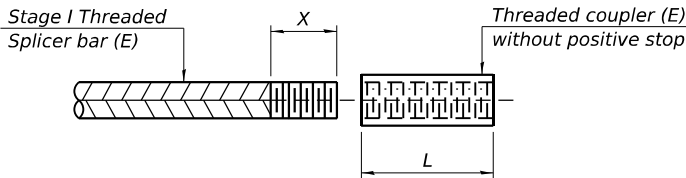
"B" : Set bar splicer assembly by nailing to wood forms or cementing to steel forms.

(E) : Indicates epoxy coating.



STANDARD MECHANICAL SPLICER

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



THREADING OF ASSEMBLIES

The threaded length "X" shall be no more than L/2. The bar should be tightened until 0-1 thread(s) is/are exposed.

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.

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BAR SPLICER ASSEMBLY AND MECHANICAL SPLICER DETAILS
STRUCTURE NO. 036-0009

SHEET 11 OF 11 SHEETS

| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------------|--------------|-----------|--------------|-----------|
| 543 | [(12B)BR]BRR | HENDERSON | 22 | 22 |
| CONTRACT NO. 68K58 | | | | |
| ILLINOIS FED. AID PROJECT | | | | |

| | | | | | |
|--------------|--------------|------------|-----|-----------|--|
| USER NAME = | mhoerner | DESIGNED - | JMM | REVISED - | |
| | | CHECKED - | JBE | REVISED - | |
| PLOT SCALE = | 0.167' / in. | DRAWN - | JMM | REVISED - | |
| PLOT DATE = | 12/5/2025 | CHECKED - | JBE | REVISED - | |