

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

| F.A.I. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|-------------|---------------|----------|--------------------|-----------|
| 39 | (50-5HB-2)BRR | LASALLE | 35 | 1 |
| | | ILLINOIS | CONTRACT NO. 66P36 | |

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- 30 EROSION REPAIR DETAILS
- 31-35 EXISTING STRUCTURE PLANS (FOR INFORMATION ONLY)

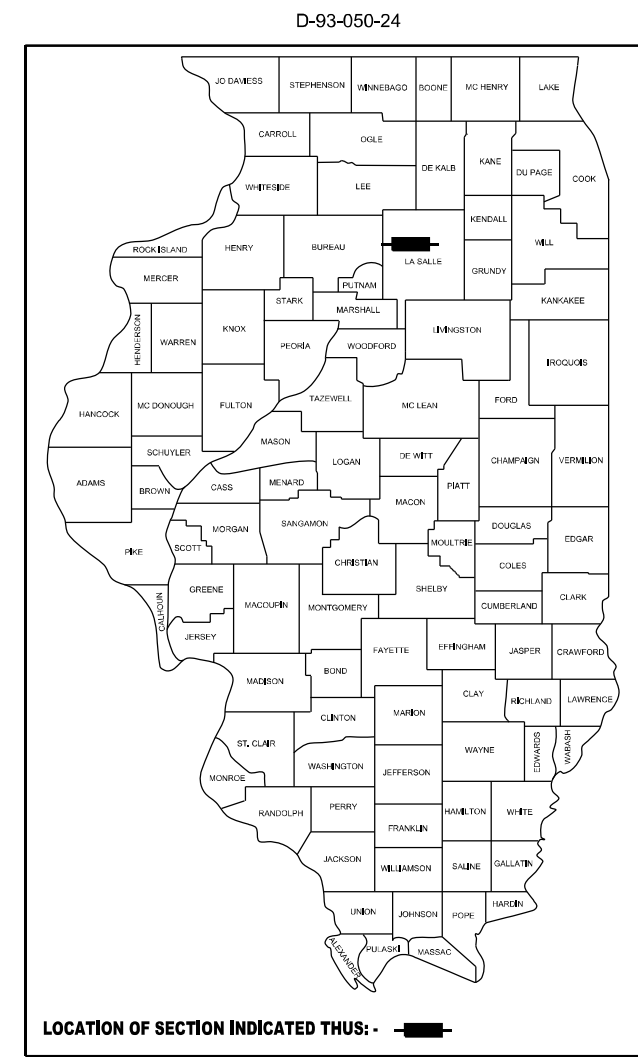
STANDARDS

- 000001-08 STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
- 001001-02 AREAS OF REINFORCEMENT BARS
- 001006 DECIMAL OF AN INCH AND OF A FOOT
- 482001-02 HMA SHOULDER ADJACENT TO FLEXIBLE PAVEMENT
- 701001-02 OFF-RD OPERATIONS, 2L, 2W, MORE THAN 15' AWAY
- 701006-05 OFF-RD OPERATIONS, 2L, 2W, 15' TO 14" FROM PAVEMENT EDGE
- 701101-05 OFF-RD OPERATIONS, MULTILANE, 15' TO 24" FROM PAVEMENT EDGE
- 701301-04 LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
- 701311-03 LANE CLOSURE, 2L, 2W, MOVING OPERATIONS - DAY ONLY
- 701316-14 LANE CLOSURE, 2L, 2W, BRIDGE REPAIR
- 701326-04 LANE CLOSURE, 2L, 2W, PAVEMENT WIDENING, FOR SPEEDS ≥ 45 MPH
- 701400-12 APPROACH TO LANE CLOSURE, FREEWAY/EXPRESSWAY
- 701406-13 LANE CLOSURE, FREEWAY/EXPRESSWAY, DAY OPERATIONS ONLY
- 701901-10 TRAFFIC CONTROL DEVICES
- 782006-01 GUARDRAIL AND BARRIER WALL REFLECTOR MOUNTING DETAILS

PROPOSED
HIGHWAY PLANS

FAI ROUTE 39 (I-39)
SECTION (50-5HB-2)BRR
BRIDGE REPAIR
LASALLE COUNTY

C-93-087-24



LOCATION OF SECTION INDICATED THUS: - [black rectangle] -

FUNCTIONAL CLASSIFICATION

MAJOR COLLECTOR
FAS ROUTE 1365 (CH 33)
2020 ADT = 625
P.V. = 100% S.U. = 0% M.U. = 0%

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUBMITTED: October 22, 2024

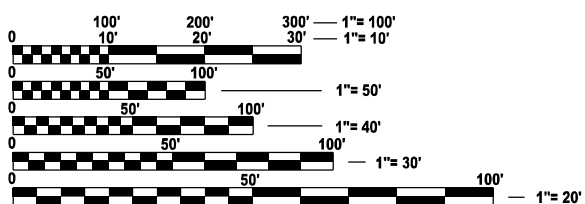
Trisha Thompson
REGIONAL ENGINEER

December 6, 2024

Scott A. Elk
ENGINEER OF DESIGN AND ENVIRONMENT

December 6, 2024

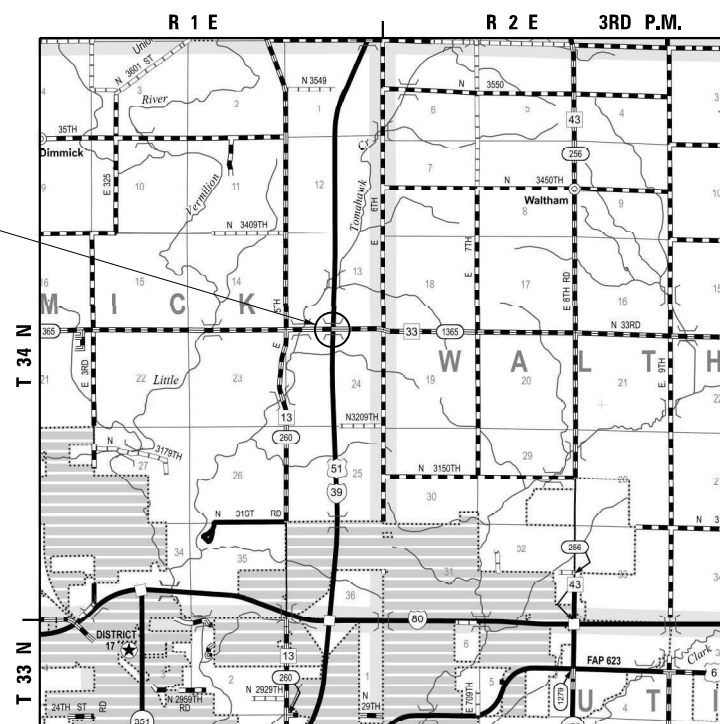
James J. Gu
DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION



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

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

PROJECT ENGINEER: JUNIOR SENAT, P.E.
PROJECT MANAGER: RON WOODSHANK
DISTRICT 3 NO. (815) 434-6131
CONTRACT NO. 66P36



PROJECT LOCATION
STR. NO. 050-0175
(STA. 80 + 00.00)
CARRYING FAS 1365 (CH 33)
OVER I-39
3.0 MILES NORTH OF I-39 &
I-80 INTERCHANGE

GROSS LENGTH = 476.00 FT. = 0.090 MILE
NET LENGTH = 476.00 FT. = 0.090 MILE



Kevin L. Kuhn

DATE: OCTOBER 11 20 24
EXPIRES: NOVEMBER 30 20 25



KUHN & TRELLO
CONSULTING ENGINEERS
A Limited Liability Company
100 N. 7th Street, 3rd Floor
Springfield, IL 62701
Phone: 317-679-0044
Professional Design Firm No. 184-00516

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OF THE STATE OF ILLINOIS

GENERAL NOTES

THE ENGINEER WILL BE THE SOLE JUDGE CONCERNING CURING TIME FOR THE VARIOUS HMA LIFTS

ALL EXCAVATED MATERIALS, WHICH INCLUDES DIGGING OR GRADING OF ANY SOIL OR FILL MATERIAL, WITH THE EXCEPTION OF AGGREGATE FILLS, MUST BE INCORPORATED WITHIN THE IDOT RIGHT OF WAY.

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

| | | |
|--------------------|------|-------------------|
| GRANULAR MATERIALS | 2.05 | TONS / CU YD |
| HMA RESURFACING | 112 | LBS / SQ YD /INCH |

COMMITMENTS

NONE.

| HMA MIXTURE REQUIREMENT TABLE | | |
|-------------------------------|-----------------|-----------------|
| LOCATIONS: | HOT-MIX ASPHALT | |
| | SHOULDERS | |
| | HMA BINDER | HMA SURFACE |
| MIXTURE USE(S): | BOTTOM LIFTS | TOP LIFT |
| BINDER GRADE (PG): | PG 64-22 | PG 64-22 |
| DESIGN AIR VOIDS: | 4% @ N50 | 4% @ N50 |
| MIXTURE COMPOSITION: | | |
| (MIXTURE GRADATION): | IL 19.0 | IL 9.5 |
| FRICTION AGGREGATE: | | MIXTURE C |
| MIXTURE WEIGHT: | 112.0 LB/SY/IN | 112.0 LB/SY/IN |
| QUALITY MANAGEMENT PROGRAM: | QC/QA | QC/QA |
| SUBLOT SIZE: | N/A | N/A |
| DENSITY TEST METHOD: | CORES / NUCLEAR | CORES / NUCLEAR |

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DISTRICT 3
AS-BUILT INFORMATION**

SUPERVISING CONSTRUCTION FIELD ENGINEER

RESIDENT ENGINEER / TECHNICIAN

START & END DATES OF CONSTRUCTION: _____

INSPECTORS: _____

MODEL: GenNote Sheet
FILE NAME: I:\2022\22069.05\DOT D3 - PTB, 205-023 - W05 - LaSalle County 66P36\CADD\ata\CAD\Sheets\66P36-sh1-GenNote.dgn



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| USER NAME = msulheard | DESIGNED - JS | REVISED - |
| | DRAWN - MS | REVISED - |
| | CHECKED - JS | REVISED - |
| PLOT DATE = 10/8/2024 | DATE - 8/21/24 | REVISED - |

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**GENERAL NOTES
CH 33**

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

| F.A.I RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|--------------------|---------------|---------|---------------------------|-----------|
| 39 | (50-5HB-2)BRR | LASALLE | 35 | 2 |
| CONTRACT NO. 66P36 | | | ILLINOIS FED. AID PROJECT | |

MODEL: S001 Sheet
 FILE NAME: I:\2022\22069.05 IDOT D3 - PTB 205-023 - W05 - LaSalle County 66P36\CADD\CAD\sheet\366P36-shr-S0001.dgn

| CODE NO. | ITEM | UNIT | TOTAL QUANTITY | CONSTR. CODE |
|----------|--|-------|----------------|--|
| | | | | CONTRACT MAINTENANCE 100% STATE BRIDGE 0047 050-0175 |
| 20200600 | EXCAVATING AND GRADING EXISTING SHOULDER | UNIT | 4 | 4 |
| 20800150 | TRENCH BACKFILL | CU YD | 10 | 10 |
| 25000200 | SEEDING, CLASS 2 | ACRE | 0.1 | 0.1 |
| 25000400 | NITROGEN FERTILIZER NUTRIENT | POUND | 9 | 9 |
| 25000500 | PHOSPHORUS FERTILIZER NUTRIENT | POUND | 9 | 9 |
| 25000600 | POTASSIUM FERTILIZER NUTRIENT | POUND | 9 | 9 |
| 25100105 | MULCH, METHOD 1 | ACRE | 0.1 | 0.1 |
| 28100205 | STONE RIPRAP, CLASS A3 | TON | 67 | 67 |
| 40600290 | BITUMINOUS MATERIALS (TACK COAT) | POUND | 63 | 63 |
| 44004250 | PAVED SHOULDER REMOVAL | SQ YD | 14 | 14 |
| 44201741 | CLASS D PATCHES, TYPE II, 8 INCH | SQ YD | 40 | 40 |
| 48203029 | HOT-MIX ASPHALT SHOULDERS, 8" | SQ YD | 280 | 280 |
| 50102400 | CONCRETE REMOVAL | CU YD | 3.0 | 3.0 |
| 50300255 | CONCRETE SUPERSTRUCTURE | CU YD | 3.3 | 3.3 |



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| PLOT DATE = 10/11/2024 | DATE - 8/28/24 | REVISED - |

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**SUMMARY OF QUANTITIES
 CH 33**

SCALE: SHEET 1 OF 4 SHEETS STA. TO STA.

| F.A.I RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|--------------------|---------------|---------|---------------------------|--------------|
| 39 | (50-5HB-2)BRR | LASALLE | 35 | 3 |
| CONTRACT NO. 66P36 | | | ILLINOIS FED. AID PROJECT | |

MODEL: S002 Sheet
 FILE NAME: I:\2022\22069.05 IDOT D3 - PTB 205-023 - W05 - LaSalle County 66P36\CADD\Drawings\66P36-shr-S0002.dgn

| CODE NO. | ITEM | UNIT | TOTAL QUANTITY | CONSTR. CODE |
|----------|---|-------|----------------|--|
| | | | | CONTRACT MAINTENANCE 100% STATE BRIDGE 0047 050-0175 |
| 50300300 | PROTECTIVE COAT | SQ YD | 16 | 16 |
| 50500405 | FURNISHING AND ERECTING STRUCTURAL STEEL | POUND | 220 | 220 |
| 50800205 | REINFORCEMENT BARS, EPOXY COATED | POUND | 570 | 570 |
| 50800515 | BAR SPLICERS | EACH | 8 | 8 |
| 52000110 | PREFORMED JOINT STRIP SEAL | FOOT | 72 | 72 |
| 52100520 | ANCHOR BOLTS, 1" | EACH | 8 | 8 |
| 550A0050 | STORM SEWERS, CLASS A, TYPE 1 12" | FOOT | 56 | 56 |
| 55100500 | STORM SEWER REMOVAL 12" | FOOT | 56 | 56 |
| 59200101 | BRIDGE WASHING NO. 1 | EACH | 1 | 1 |
| 59300100 | CONTROLLED LOW-STRENGTH MATERIAL | CU YD | 7.0 | 7.0 |
| 60500060 | REMOVING INLETS | EACH | 4 | 4 |
| 60920012 | PIPE CULVERTS TO BE CLEANED 12" | FOOT | 102 | 102 |
| 67100100 | MOBILIZATION | L SUM | 1 | 1 |
| 70100100 | TRAFFIC CONTROL AND PROTECTION, STANDARD 701316 | EACH | 1 | 1 |



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| PLOT DATE = 10/10/2024 | DATE - 8/28/24 | REVISED - |

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

| | |
|--|----------------------------------|
| SUMMARY OF QUANTITIES CH 33 | |
| SCALE: | SHEET 2 OF 4 SHEETS STA. TO STA. |

| | | | | |
|---------------------|--------------------------|-------------------|---------------------------|-------------------|
| F.A.I RTE. 39 | SECTION (50-5HB-2)BRR | COUNTY LASALLE | TOTAL SHEETS 35 | SHEET NO. 4 |
| CONTRACT NO. 66P36 | | | ILLINOIS FED. AID PROJECT | |

MODEL: S003 Sheet
 FILE NAME: I:\2022\22069.05 IDOT D3 - PTB, 2025-023 - W05 - LaSalle County 66P36\CADData\CADsheets\366P36-shr-S0003 - REVISED.dgn

| CODE NO. | ITEM | UNIT | TOTAL QUANTITY | CONSTR. CODE |
|------------|---|--------|----------------|----------------------|
| | | | | CONTRACT MAINTENANCE |
| | | | | 100% STATE |
| | | | | BRIDGE |
| | | | | 0047 |
| | | | | 050-0175 |
| 70100500 | TRAFFIC CONTROL AND PROTECTION, STANDARD 701326 | L SUM | 1 | 1 |
| 70100700 | TRAFFIC CONTROL AND PROTECTION, STANDARD 701406 | L SUM | 1 | 1 |
| 70106500 | TEMPORARY BRIDGE TRAFFIC SIGNALS | EACH | 1 | 1 |
| 70107025 | CHANGEABLE MESSAGE SIGN | CAL DA | 14 | 14 |
| 70300100 | SHORT TERM PAVEMENT MARKING | FOOT | 164 | 164 |
| 70300150 | SHORT TERM PAVEMENT MARKING REMOVAL | SQ FT | 56 | 56 |
| * 78001110 | PAINT PAVEMENT MARKING - LINE 4" | FOOT | 5184 | 5184 |
| 78300201 | PAVEMENT MARKING REMOVAL - GRINDING | SQ FT | 831 | 831 |
| X0325748 | ACRYLIC COATING | SQ YD | 39.9 | 39.9 |
| X0325749 | FIBER WRAP | SQ FT | 294 | 294 |
| X1500005 | BITUMINOUS SURFACE TREATMENT, A2 | SQ YD | 910 | 910 |
| X6100120 | TYPE E INLET BOX, STANDARD 610001 (SPECIAL) | EACH | 4 | 4 |

*= SPECIALTY ITEM



USER NAME = msulheard
 PLOT DATE = 11/18/2024

DESIGNED - JS
 DRAWN - MS
 CHECKED - JS
 DATE - 8/28/24

REVISED -
 REVISED -
 REVISED -
 REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**SUMMARY OF QUANTITIES
 CH 33**

SCALE: SHEET 3 OF SHEETS STA. TO STA.

| F.A.I RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------------|---------------|---------|--------------------|-----------|
| 39 | (50-5HB-2)BRR | LASALLE | 5 | 5 |
| ILLINOIS FED. AID PROJECT | | | CONTRACT NO. 66P36 | |

MODEL: S004 Sheet
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| CODE NO. | ITEM | UNIT | TOTAL QUANTITY | CONSTR. CODE |
|----------|--|-------|----------------|--|
| | | | | CONTRACT MAINTENANCE 100% STATE BRIDGE 0047 050-0175 |
| X7010118 | TEMPORARY RUMBLE STRIPS (SPECIAL) | EACH | 6 | 6 |
| X7200201 | WIDTH RESTRICTION SIGNING | L SUM | 1 | 1 |
| X5420003 | CONCRETE COLLAR (SPECIAL) | EACH | 2 | 2 |
| Z0012754 | STRUCTURAL REPAIR OF CONCRETE (DEPTH EQUAL TO OR LESS THAN 5 INCHES) | SQ FT | 484 | 484 |
| Z0030850 | TEMPORARY INFORMATION SIGNING | SQ FT | 42 | 42 |
| Z0043800 | PRECAST PRESTRESSED CONCRETE I-BEAM REPAIR | SQ FT | 160 | 160 |



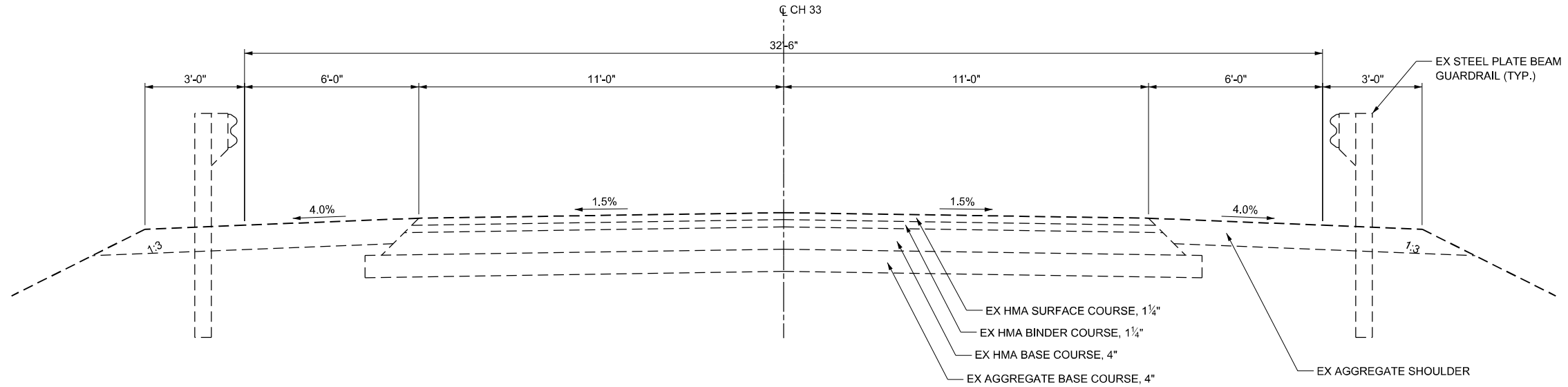
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| PLOT DATE = 10/10/2024 | DATE = 8/28/24 | REVISED - |

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**SUMMARY OF QUANTITIES
CH 33**

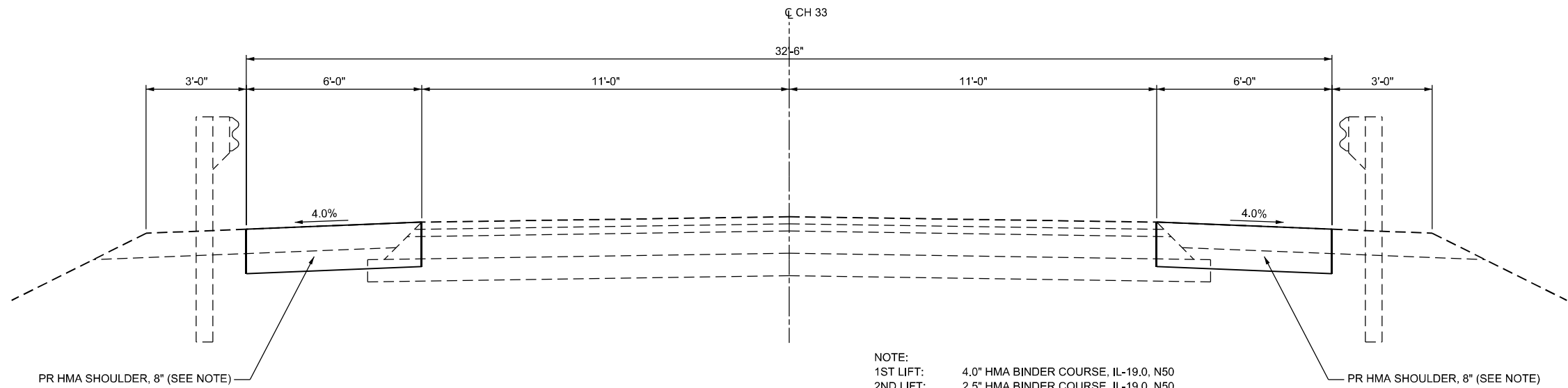
SCALE: SHEET 4 OF 4 SHEETS STA. TO STA.

| F.A.I. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------------|---------------|---------|--------------|-----------|
| 39 | (50-5HB-2)BRR | LASALLE | 35 | 6 |
| CONTRACT NO. 66P36 | | | | |
| ILLINOIS FED. AID PROJECT | | | | |



EXISTING TYPICAL SECTION

(LOOKING UPSTATION)



NOTE:
 1ST LIFT: 4.0" HMA BINDER COURSE, IL-19.0, N50
 2ND LIFT: 2.5" HMA BINDER COURSE, IL-19.0, N50
 SURFACE LIFT: 1.5" HMA SURFACE COURSE, IL-9.5, N50

PROPOSED TYPICAL SECTION

(LOOKING UPSTATION)

MODEL: Typical Sheet
 FILE NAME: I:\2022\22069.05\DOT D3 - PTB_205-023 - W05 - LaSalle County 66P36\CADD\Drawings\66P36-sh1-Typical.dgn


KUHN & TRELLO
 CONSULTING ENGINEERS
 A Limited Liability Company
 109 N. 7th Street, 3rd Floor
 Springfield, IL 62702
 Phone: 217-698-0044
 Professional Design Firm No. 284-006536

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| PLOT DATE = 10/8/2024 | DATE - 8/21/24 | REVISED - |

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS
CH 33

SCALE: 1/2"=1'-0" SHEET 1 OF 1 SHEETS STA. 72+50.00 TO STA. 87+50.00

| F.A.I. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------------|---------------|---------|--------------|-----------|
| 39 | (50-5HB-2)BRR | LASALLE | 35 | 7 |
| CONTRACT NO. 66P36 | | | | |
| ILLINOIS FED. AID PROJECT | | | | |

| SHOULDER SCHEDULE | | | | | | | |
|--------------------|----------|------------|-------|--|------------------------|----------------------------------|-------------------------------|
| LOCATION | LENGTH | SHLDR WDTH | AREA | EXCAVATING AND GRADING EXISTING SHOULDER | PAVED SHOULDER REMOVAL | BITUMINOUS MATERIALS (TACK COAT) | HOT-MIX ASPHALT SHOULDERS, 8" |
| STATION TO STATION | FT | FT | SQ FT | UNIT | SQ YD | POUND | SQ YD |
| 77+62 | 78+64 LT | 102 | 6.0 | 612 | 1 | | |
| 77+62 | 78+63 LT | 101 | 6.0 | 606 | | 15.15 | 67.3 |
| 77+62 | 78+62 RT | 100 | 6.0 | 600 | 1 | | |
| 78+61 | 78+71 RT | 10 | 6.0 | 60 | | 6.7 | |
| 77+62 | 78+71 RT | 109 | 6.0 | 654 | | 16.35 | 72.7 |
| 81+38 | 82+38 LT | 100 | 6.0 | 600 | 1 | | |
| 81+39 | 82+38 LT | 99 | 6.0 | 594 | | 14.85 | 66.0 |
| 81+36 | 82+38 RT | 102 | 6.0 | 612 | 1 | | |
| 81+28 | 81+38 RT | 10 | 6.0 | 60 | | 6.7 | |
| 81+28 | 82+38 RT | 110 | 6.0 | 660 | | 16.50 | 73.3 |
| TOTAL | | | | | 4 | 14 | 279 |

| PAVEMENT MARKING SCHEDULE | | | | | | | | | |
|---------------------------|-------|-----------------|--------------|--------|----------------------------------|-------------|-----------------------------|-------------------------------------|-----------------------------------|
| LOCATION | | COMMENT | APPLICATIONS | LENGTH | PAINT PAVEMENT MARKING - LINE 4" | | SHORT TERM PAVEMENT MARKING | SHORT TERM PAVEMENT MARKING REMOVAL | PAVEMENT MARKING REMOVAL GRINDING |
| STATION TO STATION | | | | FOOT | WHITE FOOT | YELLOW FOOT | FOOT | SQ FT | SQ FT |
| 77+62 | 82+38 | LEFT EDGE LINE | 2 | 476 | 952 | | | | |
| 77+62 | 82+13 | LEFT EDGE LINE | | 426 | | | | | 142 |
| 77+62 | 82+38 | RIGHT EDGE LINE | 2 | 476 | 952 | | | | |
| 77+62 | 82+13 | RIGHT EDGE LINE | | 426 | | | | | 142 |
| 75+90 | 84+10 | CL WB NPZ | 2 | 820 | | 1640 | 82 | 28 | 273 |
| 75+90 | 04+10 | CL EB NPZ | 2 | 820 | | 1640 | 82 | 28 | 273 |
| 75+90 | 84+10 | CL WB NPZ | | 820 | | | | | |
| 75+90 | 84+10 | CL EB NPZ | | 820 | | | | | |
| SUB TOTAL | | | | | 1904 | 3280 | | | |
| TOTAL | | | | | 5184 | | 164 | 56 | 831 |

| DRAINAGE SCHEDULE | | | | | | | | | | | | |
|--------------------|-------|------------------|------|-------|-----------------|-------------------------|---|-----------------------------------|-----------------|---------------------------------|---------------------------|-----------------|
| LOCATION | | LENGTH | WDTH | AREA | REMOVING INLETS | STORM SEWER REMOVAL 12" | TYPE E INLET BOX, STANDARD 610001 (SPECIAL) | STORM SEWERS, CLASS A, TYPE 1 12" | CONCRETE COLLAR | PIPE CULVERTS TO BE CLEANED 12" | CLASS D PATCHES TYPE 2 8" | TRENCH BACKFILL |
| STATION TO STATION | | FT | FT | SQ FT | EACH | FOOT | EACH | FOOT | EACH | FOOT | SQ YD | CU YD |
| 78+67 | 78+67 | 15' LT | | 0 | 1 | | | | | | | |
| 78+65 | 78+65 | 15' RT | | 0 | 1 | | | | | | | |
| 81+35 | 81+35 | 15' LT | | 0 | 1 | | | | | | | |
| 81+33 | 81+33 | 15' RT | | 0 | 1 | | | | | | | |
| 78+67 | 78+65 | 14' RT to 14' LT | 28 | 0 | | 28 | | 28 | | | | 5.0 |
| 81+35 | 81+33 | 14' RT to 14' LT | 28 | 0 | | 28 | | 28 | | | | 5.0 |
| 78+63 | 78+73 | LT | 10 | 6 | | | 1 | | | | | |
| 78+61 | 78+71 | RT | 10 | 6 | | | 1 | | | | | |
| 81+29 | 81+39 | LT | 10 | 6 | | | 1 | | | | | |
| 81+27 | 81+37 | RT | 10 | 6 | | | 1 | | | | | |
| 78+67 | 78+67 | 16' LT to LT 66' | 54 | | | | | | 1 | 54 | | |
| 81+35 | 81+35 | 16' LT to LT 60' | 48 | | | | | | 1 | 48 | | |
| 78+64 | 78+72 | EB | 8 | 11 | | | | | | | 9.8 | |
| 78+64 | 78+72 | WB | 8 | 11 | | | | | | | 9.8 | |
| 81+28 | 81+36 | EB | 8 | 11.0 | | | | | | | 9.8 | |
| 81+28 | 81+36 | WB | 8 | 11.0 | | | | | | | 9.8 | |
| TOTAL | | | | | 4 | 56 | 4 | 56 | 2 | 102 | 40 | 10 |

| EROSION REPAIR | | |
|---------------------|------------------------|----------------------------------|
| LOCATION | STONE RIPRAP, CLASS A3 | CONTROLLED LOW-STRENGTH MATERIAL |
| | TON | CU YD |
| EAST ABUTMENT SOUTH | 21.0 | 3.5 |
| EAST ABUTMENT NORTH | 27.7 | 3.5 |
| WEST ABUTMENT SOUTH | 5.0 | 0.0 |
| WEST ABUTMENT NORTH | 13.3 | 0.0 |
| TOTAL | 67 | 7 |

| BRIDGE DECK PRESERVATION SCHEDULE | | | | |
|-----------------------------------|-------|--------|-------|---------------------------------|
| LOCATION | WIDTH | LENGTH | AREA | BITUMINOUS SURFACE TREATMENT A2 |
| | FT | FT | SQ YD | SQ YD |
| STATION TO STATION | | | | |
| 78+72 | 78+94 | 32.5 | 22 | 79.4 |
| 78+96 | 81+04 | 32.5 | 208 | 751.1 |
| 81+06 | 81+28 | 32.5 | 22 | 79.4 |
| TOTAL | | | | 910 |

| SEEDING SCHEDULE | | | | | | | | |
|------------------|--------|-------|-------|------------------|------------------------------|--------------------------------|-------------------------------|-----------------|
| LOCATION | LENGTH | WIDTH | AREA | SEEDING, CLASS 2 | NITROGEN FERTILIZER NUTRIENT | PHOSPHORUS FERTILIZER NUTRIENT | POTASSIUM FERTILIZER NUTRIENT | MULCH, METHOD 1 |
| | FT | FT | SQ FT | ACRE | POUND | POUND | POUND | ACRE |
| NW QUAD | 100 | 10.0 | 1000 | 0.023 | 2.1 | 2.1 | 2.1 | 0.023 |
| NE QUAD | 100 | 10.0 | 1000 | 0.023 | 2.1 | 2.1 | 2.1 | 0.023 |
| SW QUAD | 100 | 10.0 | 1000 | 0.023 | 2.1 | 2.1 | 2.1 | 0.023 |
| SE QUAD | 100 | 10.0 | 1000 | 0.023 | 2.1 | 2.1 | 2.1 | 0.023 |
| TOTAL | | | | 0.1 | 9 | 9 | 9 | 0.1 |

MODEL: Schedule Sheet
 FILE NAME: I:\2022\22069.05\DOT D3 - PTB 205-023 - W05 - LaSalle County 66P36\CADD\CAD\Sheets\66P36-shr-Schedule.dgn



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| | DRAWN - MS | REVISED - |
| | CHECKED - JS | REVISED - |
| PLOT DATE = 11/18/2024 | DATE - 8/28/24 | REVISED - |

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES
CH33

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

| F.A.I. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------------|----------------|---------|--------------|-----------|
| 39 | (50-5H-B-2)BRR | LASALLE | 35 | 8 |
| CONTRACT NO. 66P36 | | | | |
| ILLINOIS FED. AID PROJECT | | | | |

1 PR TYPE E INLET BOX, STANDARD 610001
 STA. 78+67, 15' LT,
 FL = MATCH EXISTING
 STA. 78+65, 15' RT
 FL = MATCH EXISTING

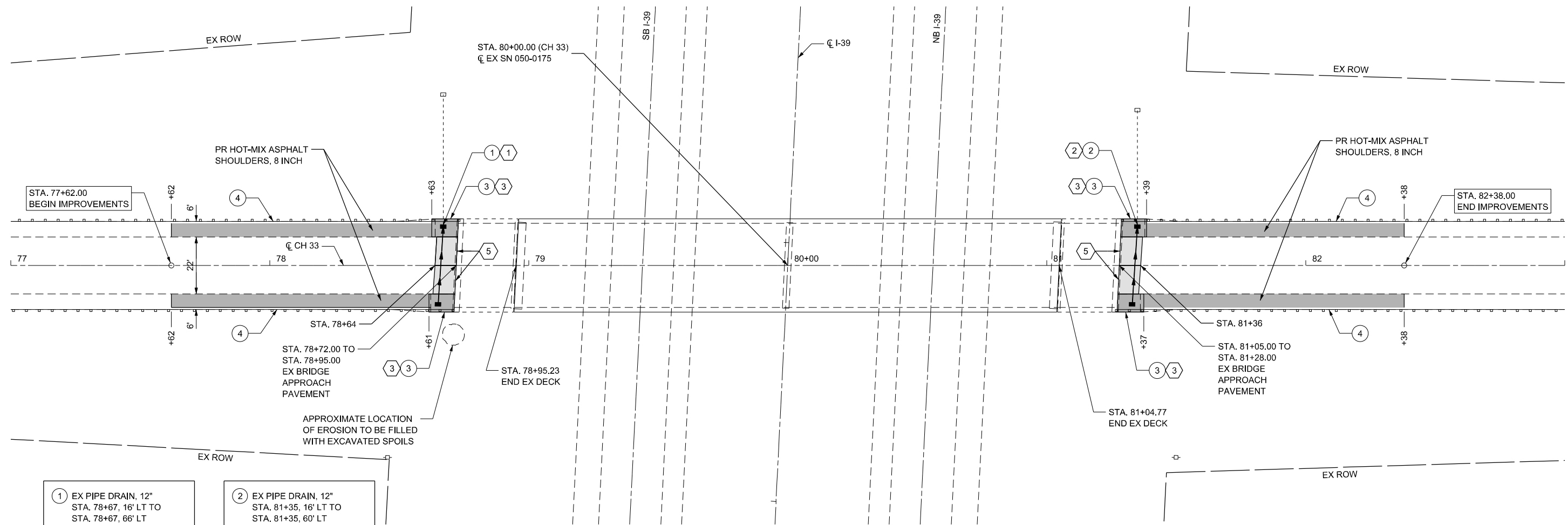
PR STORM SEWERS,
 CLASS A, TYPE 1 - 12"
 STA. 78+67, 14' LT TO
 STA. 78+65, 14' RT
 28 FOOT

2 PR TYPE E INLET BOX, STANDARD 610001
 STA. 81+35, 15' LT
 FL = MATCH EXISTING
 STA. 81+33, 15' RT
 FL = MATCH EXISTING

PR STORM SEWERS,
 CLASS A, TYPE 1 - 12"
 STA. 81+35, 14' LT TO
 STA. 81+33, 14' RT
 28 FOOT

3 PR TYPE E INLET BOX, STANDARD 610001 (SPECIAL)
 STA. 78+61, RT TO STA. 78+71, RT
 STA. 78+63, LT TO STA. 78+73, LT
 STA. 81+27, RT TO STA. 81+37, RT
 STA. 81+29, LT TO STA. 81+39, LT

5 CLASS D PATCHES, TYPE II, 8 INCH
 STA. 78+64, LT & RT TO STA. 78+72, LT & RT
 STA. 81+28, LT & RT TO STA. 81+36, LT & RT



1 EX PIPE DRAIN, 12" STA. 78+67, 16' LT TO STA. 78+67, 66' LT 54 FOOT (TO REMAIN / CLEAN)

EX INLETS, TYPE A, TYPE 1 FRAME, OPEN LID
 STA. 78+67, 15' LT
 STA. 78+65, 15' RT
 (TO BE REMOVED)

EX STORM SEWERS, TYPE 1 - 12"
 STA. 78+67, 14' LT TO STA. 78+65, 14' RT
 28 FOOT (TO BE REMOVED)

EX SPECIAL FIELD TILE HEADWALL
 STA. 78+67, 66' LT (TO REMAIN)

2 EX PIPE DRAIN, 12" STA. 81+35, 16' LT TO STA. 81+35, 60' LT 48 FOOT (TO REMAIN / CLEAN)

EX INLETS, TYPE A, TYPE 1 FRAME, OPEN LID
 STA. 81+35, 15' LT
 STA. 81+33, 15' RT
 (TO BE REMOVED)

EX STORM SEWERS, TYPE 1 - 12"
 STA. 81+35, 14' LT TO STA. 81+33, 14' RT
 28 FOOT (TO BE REMOVED)

EX SPECIAL FIELD TILE HEADWALL
 STA. 81+35, 60' LT (TO REMAIN)

3 EX INLET AND PCC SLAB
 STA. 78+62, RT TO STA. 78+71 RT
 STA. 78+64, LT TO STA. 78+73 LT
 STA. 81+27, RT TO STA. 81+36, RT
 STA. 81+29, LT TO STA. 81+38, LT
 (TO BE REMOVED. REMOVAL OF EX INLET PCC SLAB INCLUDED IN COST OF REMOVING INLETS.)

4 EX STEEL PLATE BEAM GUARDRAIL, TYPE A = 175 FOOT
 EX TRAFFIC BARRIER TERMINAL, TYPE 1, SPECIAL (TANGENT) = 1 EACH

STA. 76+73, LT TO STA. 78+73, LT
 STA. 76+71, RT TO STA. 78+71, RT
 STA. 81+29, LT TO STA. 83+29, LT
 STA. 81+27, RT TO STA. 83+27 (TO REMAIN)

MODEL: EXCL33-Plan 1
 FILE NAME: I:\2022\22069.05\DOT D3 - PTB_205-023 - W05 - LaSalle County 66P36\CADD\CAD\CADsheets\66P36-sh1-Plan20.dgn



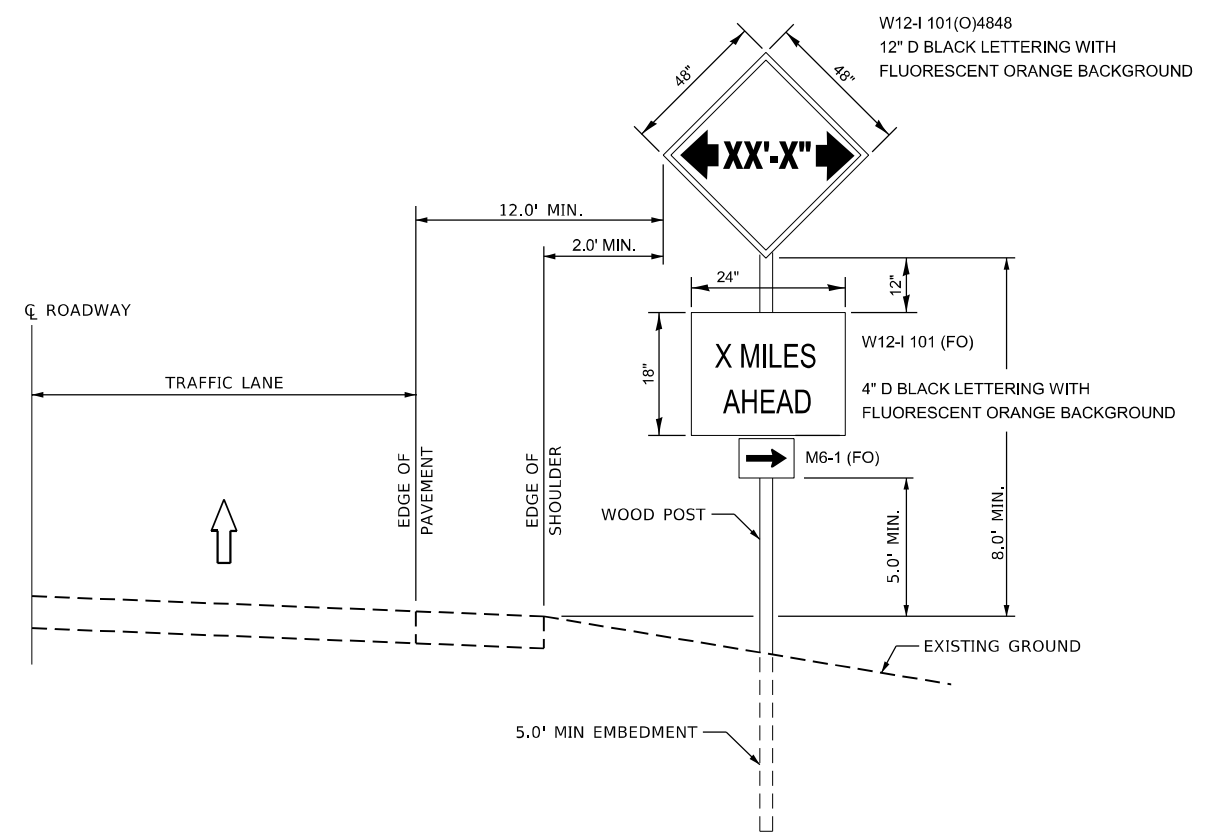
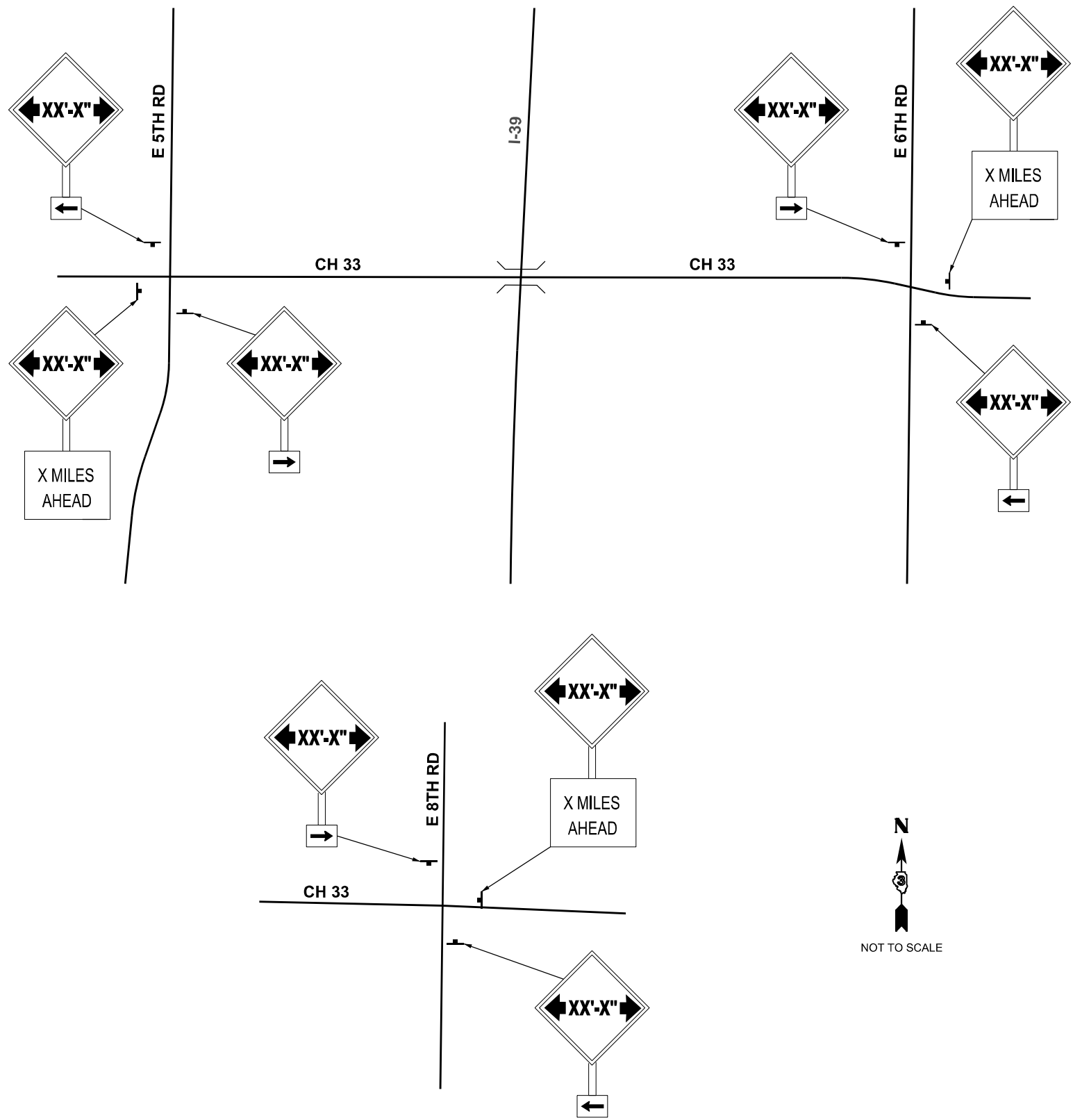
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| USER NAME = msulheard | DESIGNED - JS | REVISED - |
| | DRAWN - MS | REVISED - |
| | CHECKED - JS | REVISED - |
| PLOT DATE = 10/9/2024 | DATE - 8/21/24 | REVISED - |

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**ROADWAY PLAN
 CH 33**

SCALE: 1"=20' SHEET 1 OF 7 SHEETS STA. 77+00.00 TO STA. 83+00.00

| F.A.I RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------------|---------------|---------|--------------|-----------|
| 39 | (50-5HB-2)BRR | LASALLE | 35 | 9 |
| CONTRACT NO. 66P36 | | | | |
| ILLINOIS FED. AID PROJECT | | | | |



TO BE POST MOUNTED AS SHOWN ELSEWHERE IN THE PLANS.

COST OF SUPPLYING, INSTALLING, MAINTAINING AND REMOVING WIDTH RESTRICTION SIGNS SHALL BE INCLUDED IN THE COST OF THE TRAFFIC CONTROL AND PROTECTION PAY ITEMS.

USE THIS DETAIL IN CONJUNCTION WITH SPECIAL PROVISION.

WIDTH RESTRICTION SIGNING DETAILS

MODEL: Map Sheet
 FILE NAME: I:\2022\22069.05\DOT D3 - PTB_205-023 - W05 - LaSalle County 66P36\CADD\data\CAD\sheet\36\66P36-shr-Sign\WRS.dgn

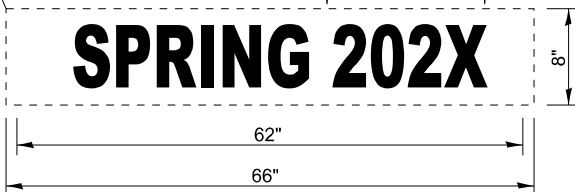
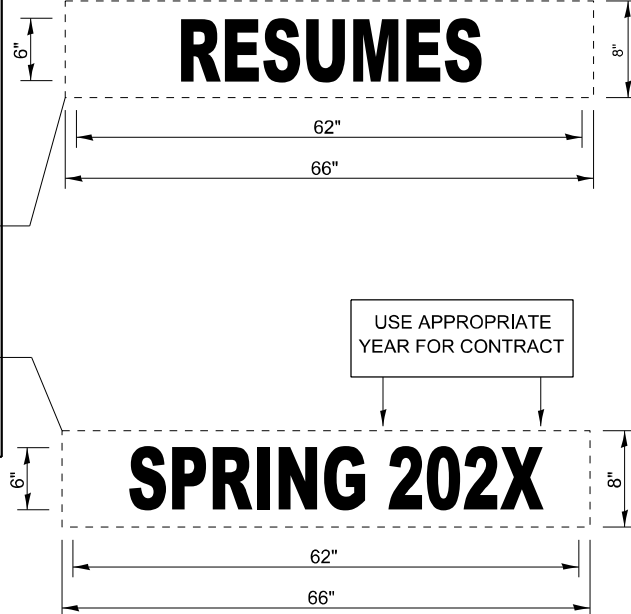
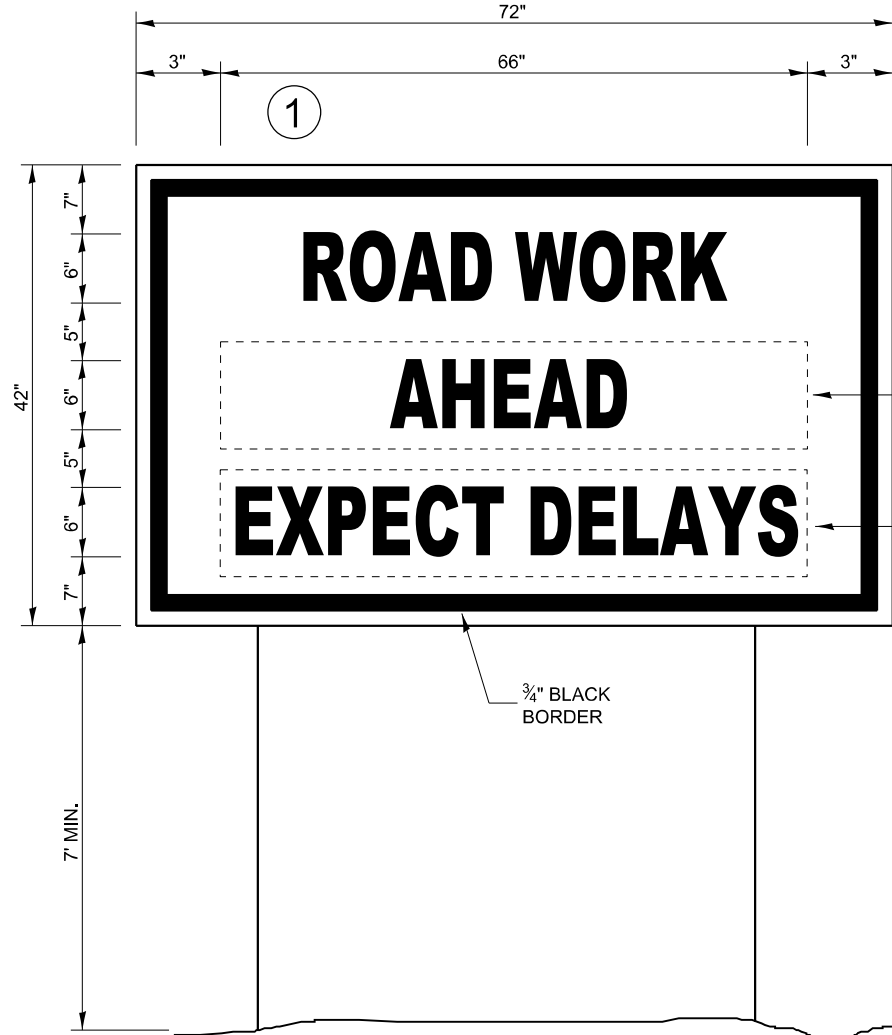
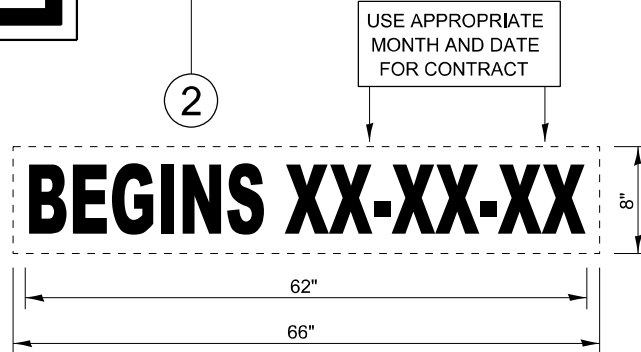
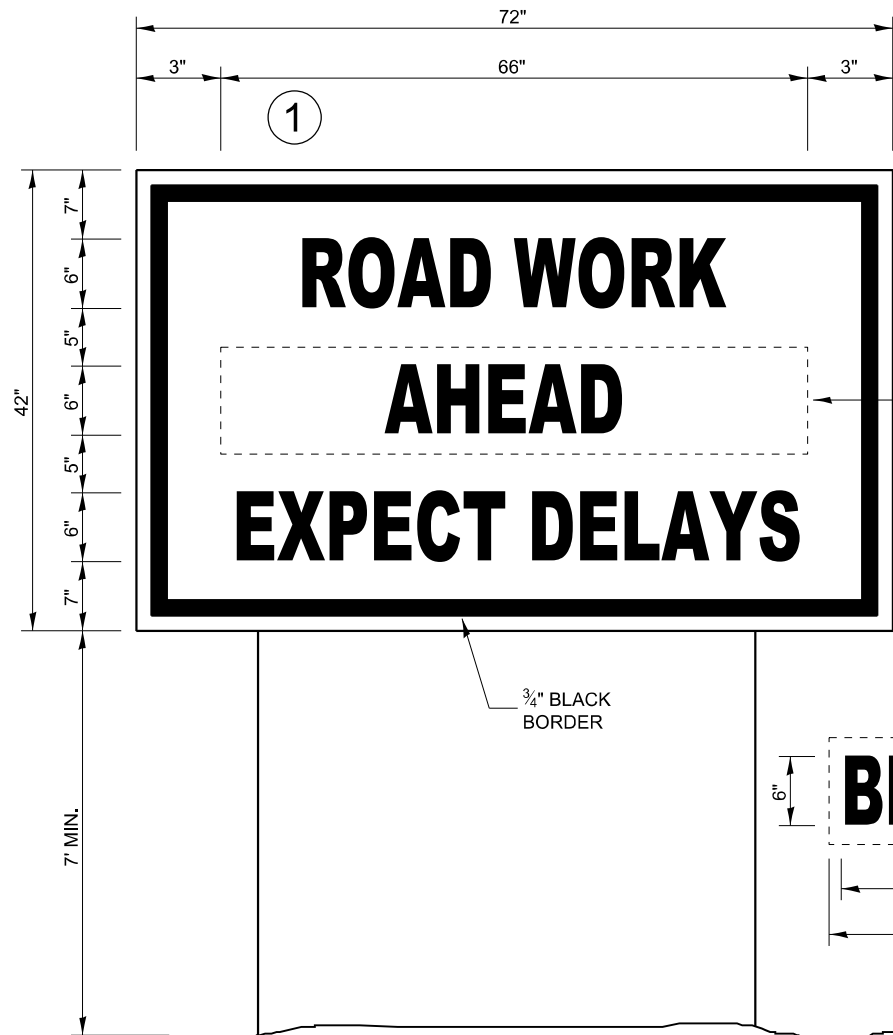


| | | |
|------------------------|----------------|-----------|
| USER NAME = msulheard | DESIGNED - JS | REVISED - |
| | DRAWN - MS | REVISED - |
| | CHECKED - JS | REVISED - |
| PLOT DATE = 10/11/2024 | DATE - 8/21/24 | REVISED - |

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

| WIDTH RESTRICTION SIGNING DETAIL | | | |
|----------------------------------|---------|-------------|--------------|
| CH 33 | | | |
| SCALE: | SHEET 2 | OF 7 SHEETS | STA. TO STA. |

| F.A.I. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------------|---------------|---------|--------------|-----------|
| 39 | (50-5HB-2)BRR | LASALLE | 35 | 10 |
| CONTRACT NO. 66P36 | | | | |
| ILLINOIS FED. AID PROJECT | | | | |



TEMPORARY INFORMATION SIGNING

WINTER SHUT DOWN SIGNING

NOTES:

1. USE 6" D BLACK LETTERING ON FLOURESENT ORANGE BACKGROUND.
2. ERECT SIGNS AT LOCATIONS IN ADVANCE OF THE "ROAD CONSTRUCTION AHEAD" SIGNS AS DIRECTED BY THE ENGINEER.
3. ERECT SIGN ① WITH INSTALLED PANEL ② A MINIMUM OF ONE WEEK PRIOR TO THE START OF THE LANE CLOSURE.
4. REMOVE PANEL ② ON THAT DATE.
5. SEE SPECIAL PROVISION "TEMPORARY INFORMATION SIGNING" FOR ADDITIONAL INFORMATION.
6. WILL BE PAID FOR PER SQ FT AS "TEMPORARY INFORMATION SIGNING". EACH SIGN = 21 SQ FT AND THE DATE PANEL ② WILL NOT BE MEASURED SEPARATELY FOR PAYMENT.

MODEL - Sign Detail Sheet
FILE NAME: I:\2022\22069.05 IDOT D3 - PTB_205-023 - W05 - LaSalle County 66P36\CAD\CAD\Sheet\66P36-shr-Sign1Temp.dgn

KUHN & TRELLO
CONSULTING ENGINEERS
A Limited Liability Company
109 N. 7th Street, 3rd Floor
Springfield, IL 62702
Phone: 217-698-0044
Professional Design Firm No. 284-006536

| | | |
|-----------------------|----------------|-----------|
| USER NAME = msulheard | DESIGNED - JS | REVISED - |
| | DRAWN - MS | REVISED - |
| | CHECKED - JS | REVISED - |
| PLOT DATE = 10/8/2024 | DATE - 8/21/24 | REVISED - |










STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

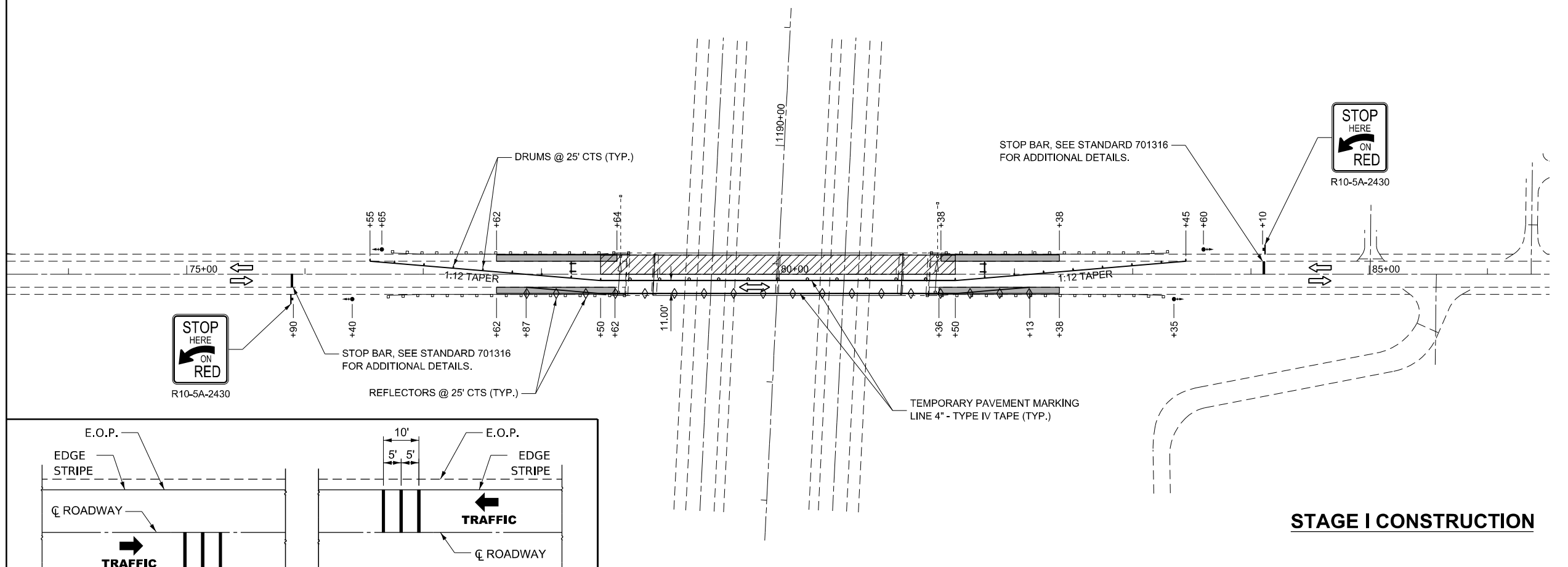
TEMPORARY INFORMATION SIGNING DETAIL
CH 33

SCALE: SHEET 3 OF 7 SHEETS STA. TO STA.

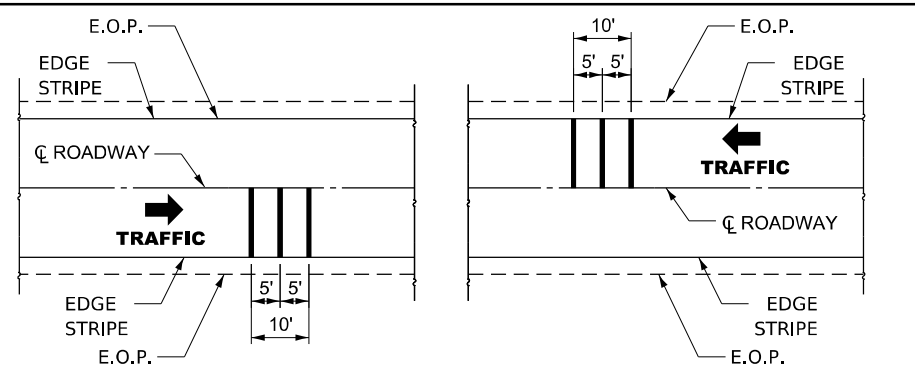
| F.A.I RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------------|---------------|---------|--------------|-----------|
| 39 | (50-5HB-2)BRR | LASALLE | 35 | 11 |
| CONTRACT NO. 66P36 | | | | |
| ILLINOIS FED. AID PROJECT | | | | |

LEGEND

-  DIRECTION OF TRAFFIC
-  WORK ZONE
-  PERMANENT HMA SHOULDERS, 8"
-  TYPE III BARRICADE WITH FLASHING LIGHTS
-  SIGN
-  TEMPORARY BRIDGE TRAFFIC SIGNAL
-  DRUM
-  DRUM WITH STEADY BURN BI-DIRECTIONAL LIGHT
-  CRYSTAL, BI-DIRECTIONAL GUARDRAIL/BARRIER WALL REFLECTOR



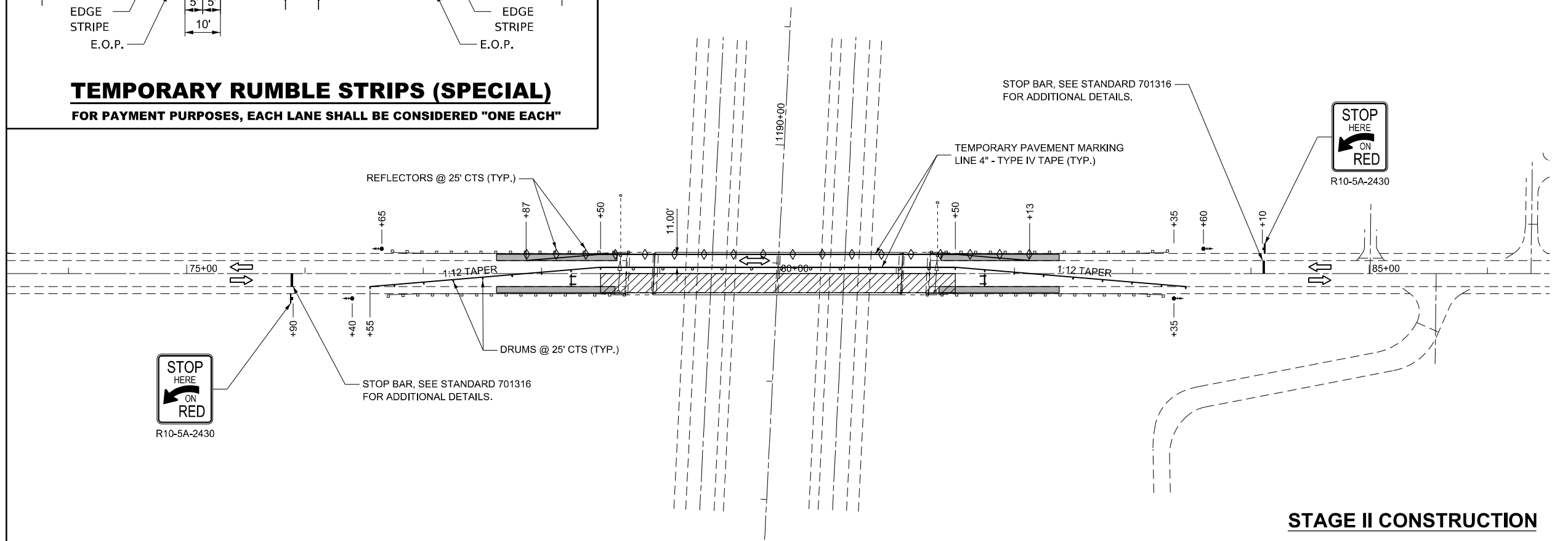
STAGE I CONSTRUCTION



TEMPORARY RUMBLE STRIPS (SPECIAL)
FOR PAYMENT PURPOSES, EACH LANE SHALL BE CONSIDERED "ONE EACH"

NOTES

- 1 FOR ADDITIONAL TRAFFIC CONTROL DETAILS NOT SHOWN, SEE HIGHWAY STANDARDS.
- 2 TYPE III BARRICADE TO BE PLACED WHEN NO WORK IS BEING PERFORMED.
- 3 THE EDGE OF THE POST MOUNTED SIGNAL HEAD SHALL BE BETWEEN 24" AND 6" FROM EDGE OF SHOULDER.
- 4 TEMPORARY RUMBLE STRIPS TO BE PLACED IN ACCORDANCE WITH TRAFFIC CONTROL STANDARD 701316.
- 5 THE CONTRACTOR SHALL PLACE A STEEL PLATE OVER THE JOINT OPENING WHEN NOT WORKING.



STAGE II CONSTRUCTION



MODEL: MOT Plan Sheet
 FILE NAME: I:\2022\22069.05\DOT D3 - PTB_205-023 - W05 - LaSalle County 66P36\CADD\at\CAD\sheet\36-sh-MOT-Plan.dgn



| |
|-----------------------|
| USER NAME = msulheard |
| PLOT DATE = 10/8/2024 |

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|----------------|-----------|
| DESIGNED - JS | REVISED - |
| DRAWN - MS | REVISED - |
| CHECKED - JS | REVISED - |
| DATE - 8/21/24 | REVISED - |

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STAGING PLAN
CH 33



SCALE: SHEET 4 OF 7 SHEETS STA. TO STA.

| F.A.I RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------------|---------------|---------|--------------|-----------|
| 39 | (50-5HB-2)BRR | LASALLE | 35 | 12 |
| CONTRACT NO. 66P36 | | | | |
| ILLINOIS FED. AID PROJECT | | | | |

NOTES

- ① SEE TYPICAL SECTIONS FOR PAVEMENT DETAILS.
- ② FOR MOT PRESTAGE, REFERENCE TRAFFIC CONTROL AND PROTECTION STANDARD 701306-04.
- ③ FOR MOT STAGE I AND STAGE II, REFERENCE TRAFFIC CONTROL AND PROTECTION STANDARD 701316-14.

LEGEND

-  TEMPORARY DRUM W/ STEADY BURNING LIGHT
-  DIRECTION OF TRAFFIC

PRE-STAGE CONSTRUCTION

- SN 050-0175
- REMOVE EASTBOUND SHOULDER WITHIN RECONSTRUCTION LIMITS AS SHOWN ON PLANS.
 - CONSTRUCT PERMANENT HMA SHOULDER.

PRE-STAGE TRAFFIC

CH 33
 PROVIDE ONE ELEVEN FOOT LANE THROUGH THE PROJECT LIMITS ON EXISTING WESTBOUND PAVEMENT AND EXISTING STRUCTURE. USE HIGHWAY STANDARD 701316 AND TEMPORARY TRAFFIC SIGNALS FOR TRAFFIC CONTROL AND PROTECTION.

I-39
 USE HIGHWAY STANDARD 701400 AND 701406.

STAGE I CONSTRUCTION

- SN 050-0175
- REMOVE WESTBOUND SHOULDER WITH RECONSTRUCTION LIMITS AS SHOWN ON PLANS.
 - CONSTRUCT PERMANENT HMA SHOULDER.
 - COMPLETE BRIDGE WORK ON NORTHERN PORTION OF STRUCTURE.

STAGE I TRAFFIC

CH 33
 PROVIDE ONE ELEVEN FOOT LANE THROUGH THE PROJECT LIMITS ON EXISTING EASTBOUND PAVEMENT AND EXISTING STRUCTURE. USE HIGHWAY STANDARD 701316 AND TEMPORARY TRAFFIC SIGNALS FOR TRAFFIC CONTROL AND PROTECTION.

I-39
 USE HIGHWAY STANDARD 701400 AND 701406.

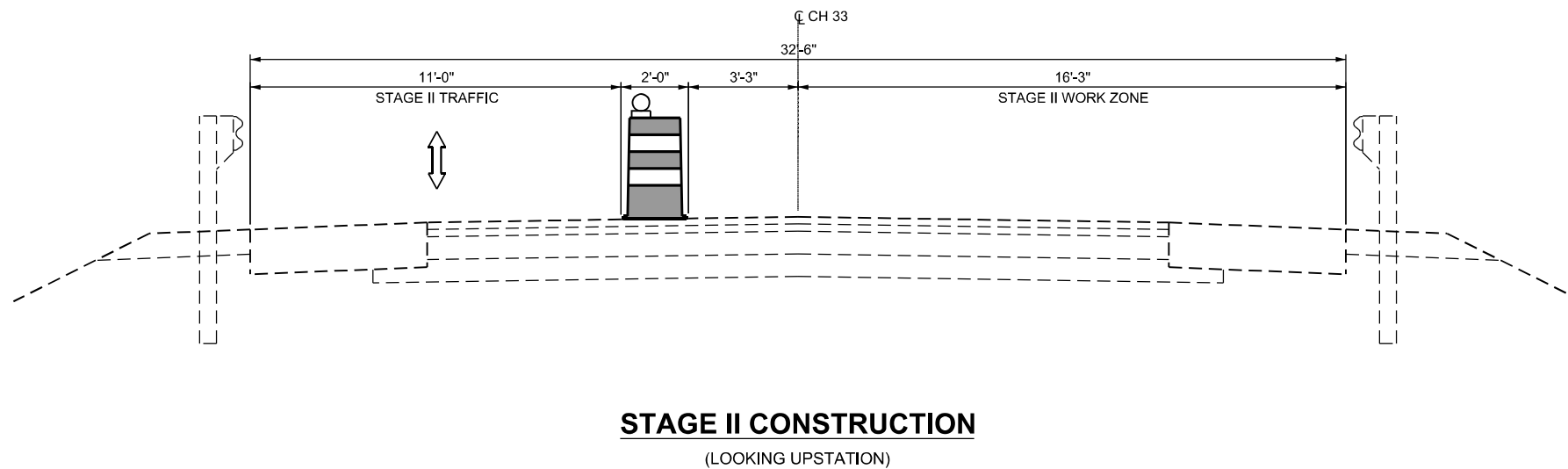
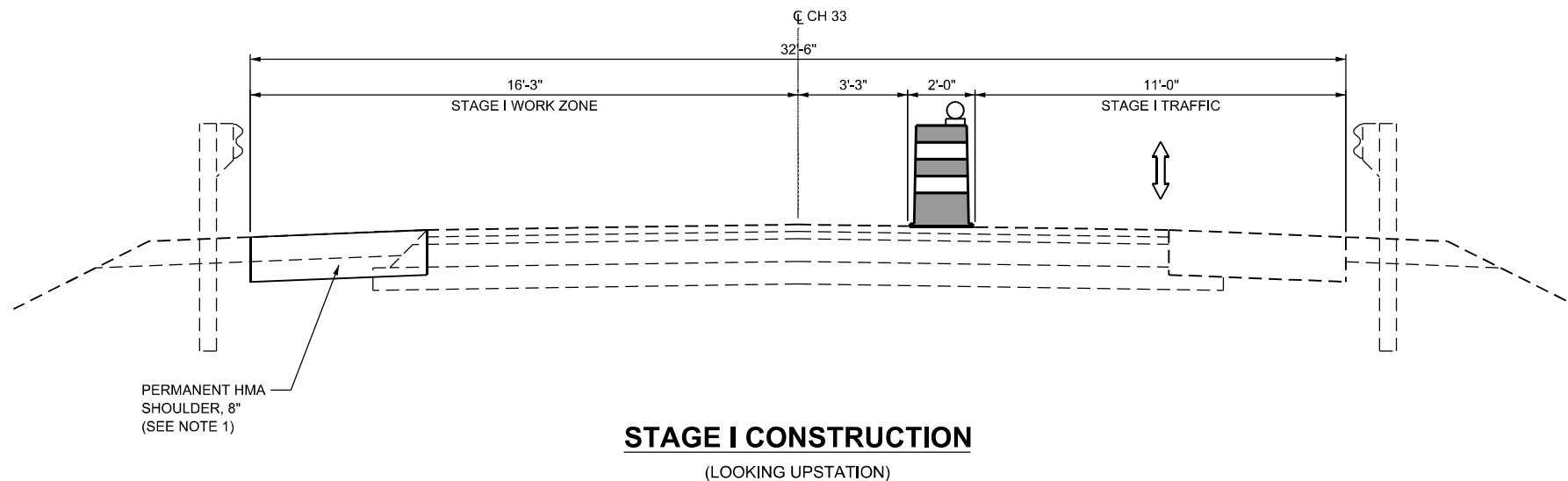
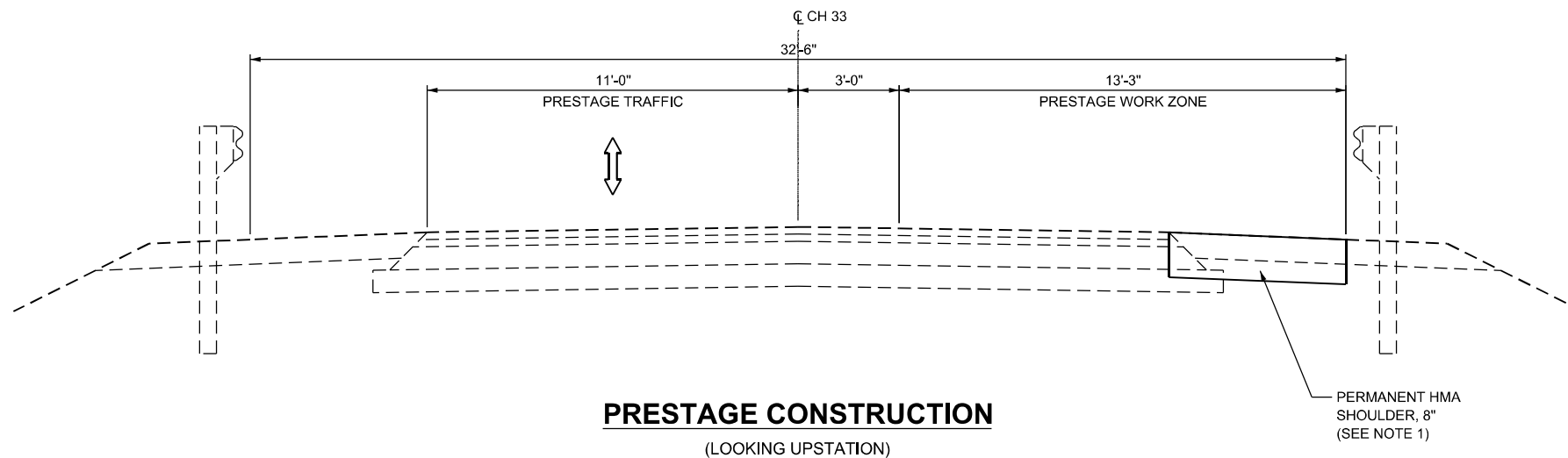
STAGE II CONSTRUCTION

- SN 050-0175
- COMPLETE BRIDGE WORK ON SOUTHERN PORTION OF STRUCTURE.

STAGE II TRAFFIC

CH 33
 PROVIDE ONE ELEVEN FOOT LANE THROUGH THE PROJECT LIMITS ON WESTBOUND PAVEMENT AND STRUCTURE. USE HIGHWAY STANDARD 701316 AND TEMPORARY TRAFFIC SIGNALS FOR TRAFFIC CONTROL AND PROTECTION.

I-39
 USE HIGHWAY STANDARD 701400 AND 701406.



MODEL: MOT Typical Sheet
 FILE NAME: I:\2022\220698.05\DOT D3 - PTB_205-023 - W05 - LaSalle County 66P36\CADD\CAD\Sheets\66P36-sh1-MOT-Typical.dgn



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|-----------------------|----------------|-----------|
| USER NAME = msulheard | DESIGNED - JS | REVISED - |
| | DRAWN - MS | REVISED - |
| | CHECKED - JS | REVISED - |
| PLOT DATE = 10/9/2024 | DATE - 8/21/24 | REVISED - |

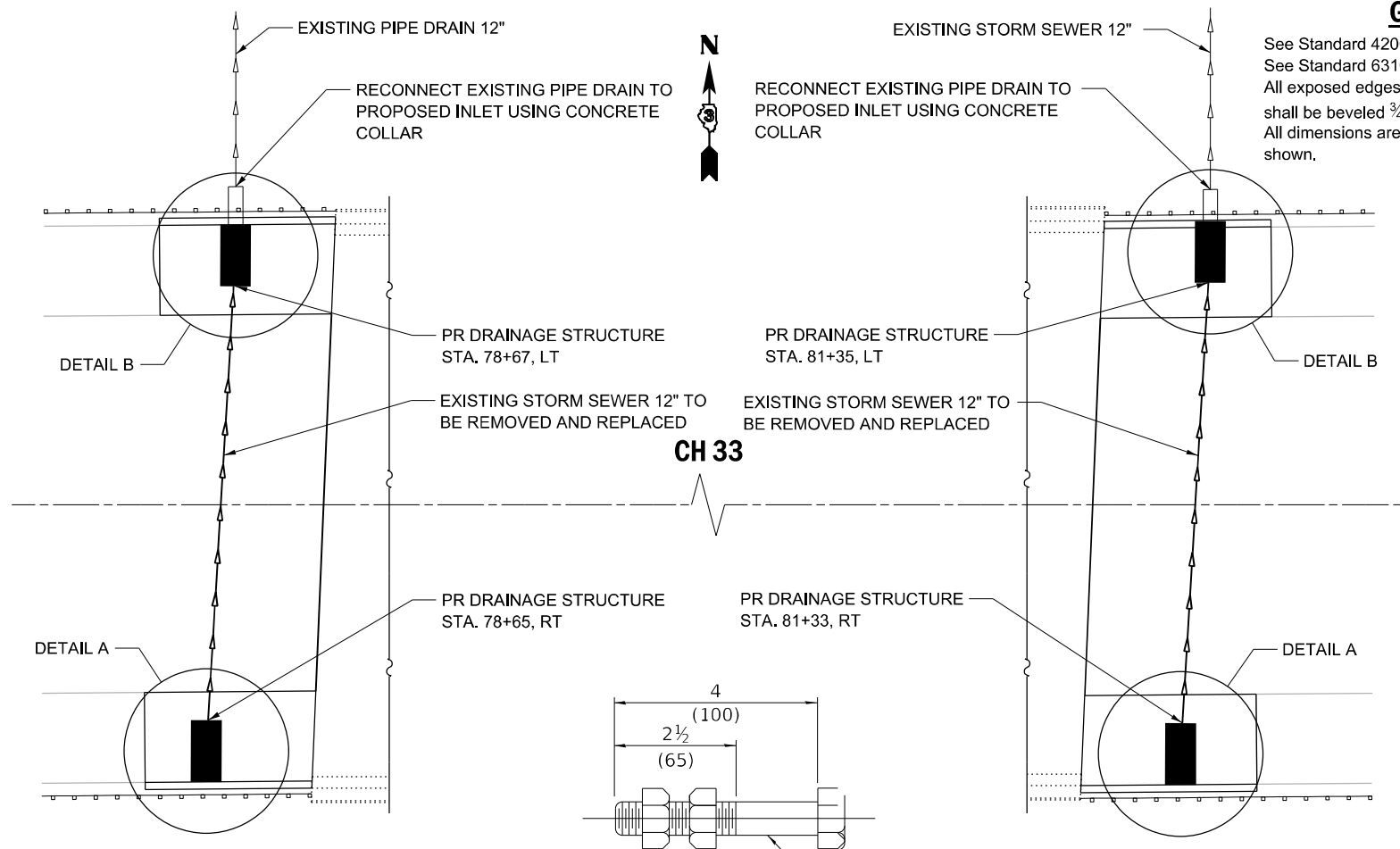
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**STAGING TYPICAL SECTIONS
 CH 33**

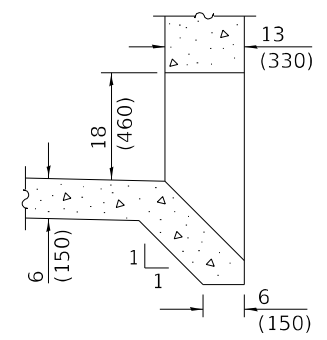
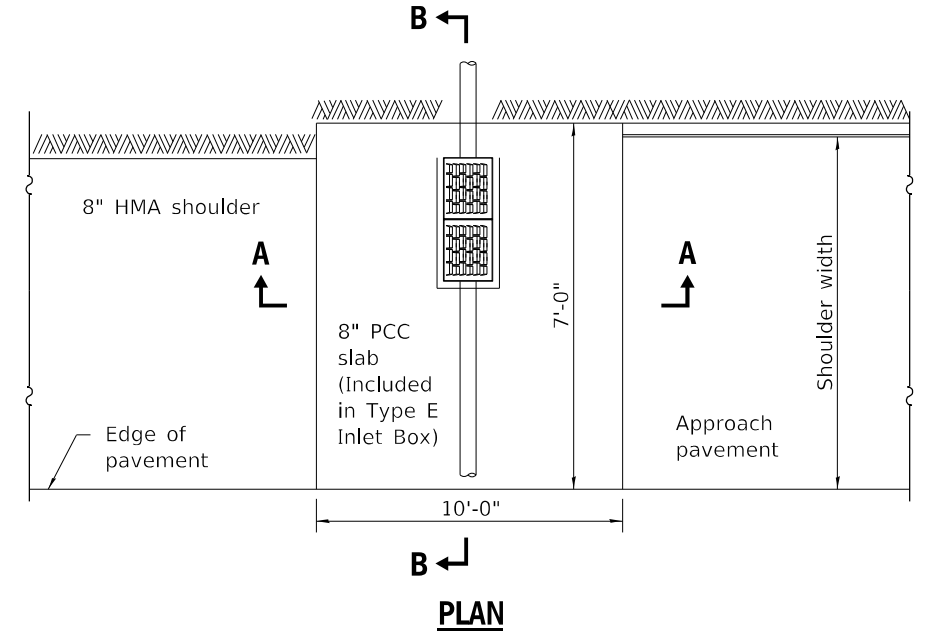
SCALE: SHEET 5 OF 7 SHEETS STA. TO STA.

| F.A.I RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------------|---------------|---------|--------------|-----------|
| 39 | (50-5HB-2)BRR | LASALLE | 35 | 13 |
| CONTRACT NO. 66P36 | | | | |
| ILLINOIS FED. AID PROJECT | | | | |

MODEL: Inlet Detail 01_Sheet
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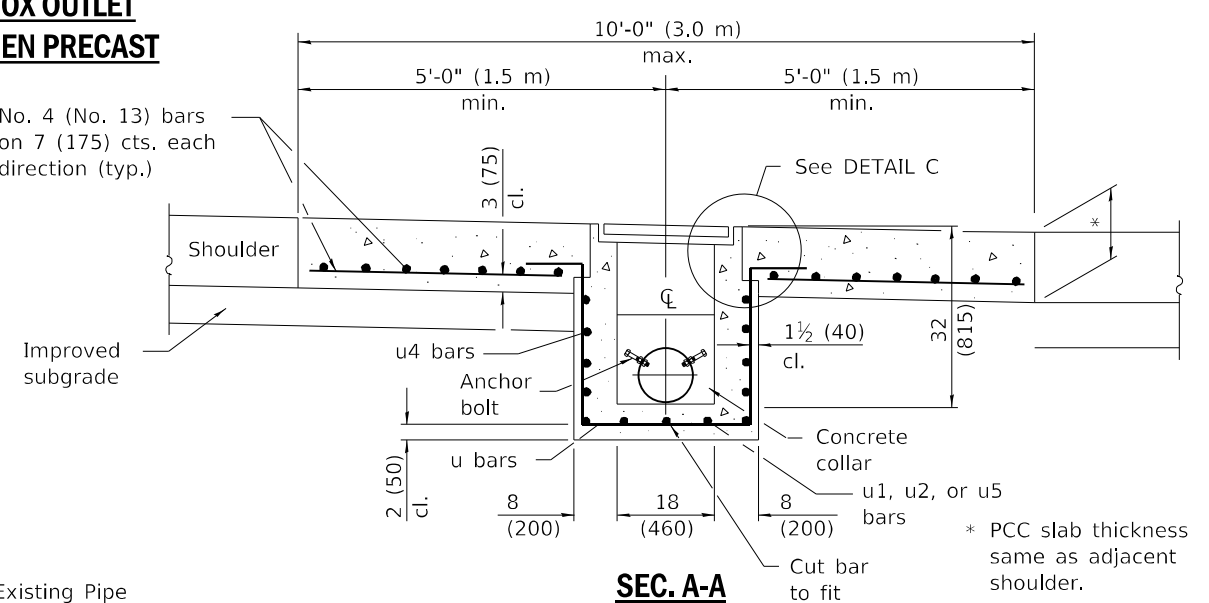


GENERAL NOTES
 See Standard 420001 for joint details not shown.
 See Standard 631031-17 for details of guardrail not shown.
 All exposed edges of the inlet, except the upper perimeter, shall be beveled 3/4 (20).
 All dimensions are in inches (millimeters) unless otherwise shown.



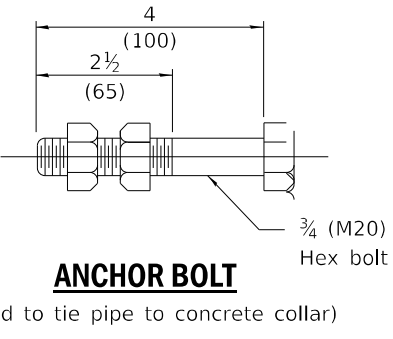
BOX OUTLET WHEN PRECAST

No. 4 (No. 13) bars on 7 (175) cts. each direction (typ.)



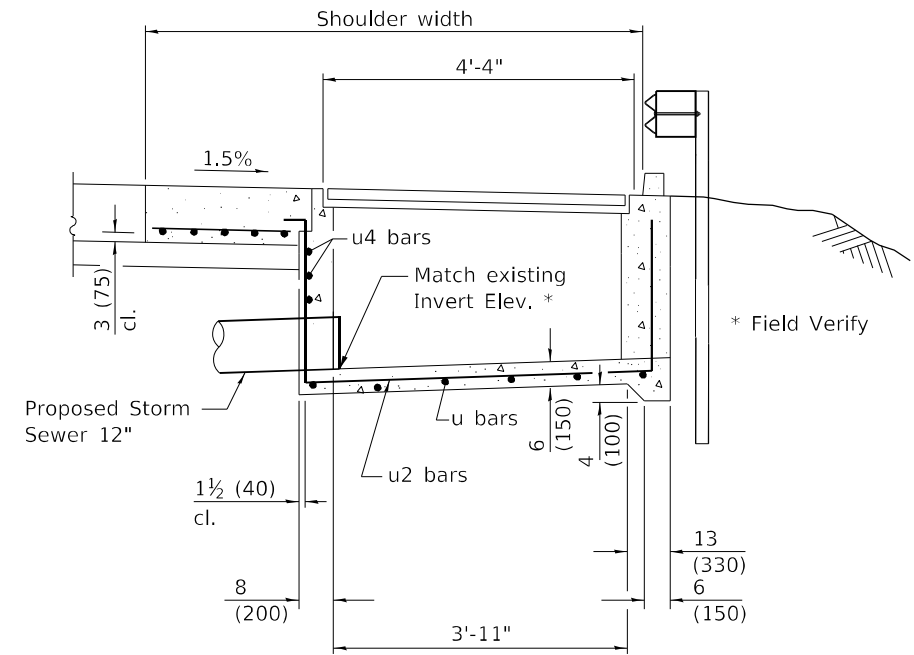
SEC. A-A

* PCC slab thickness same as adjacent shoulder.

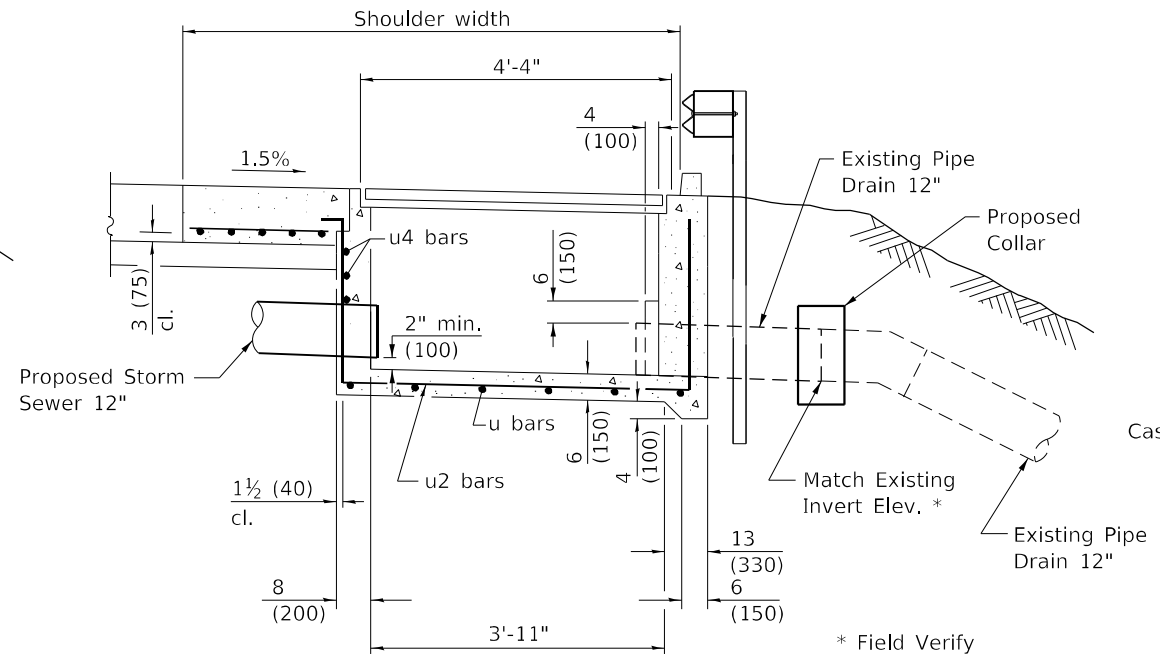


ANCHOR BOLT

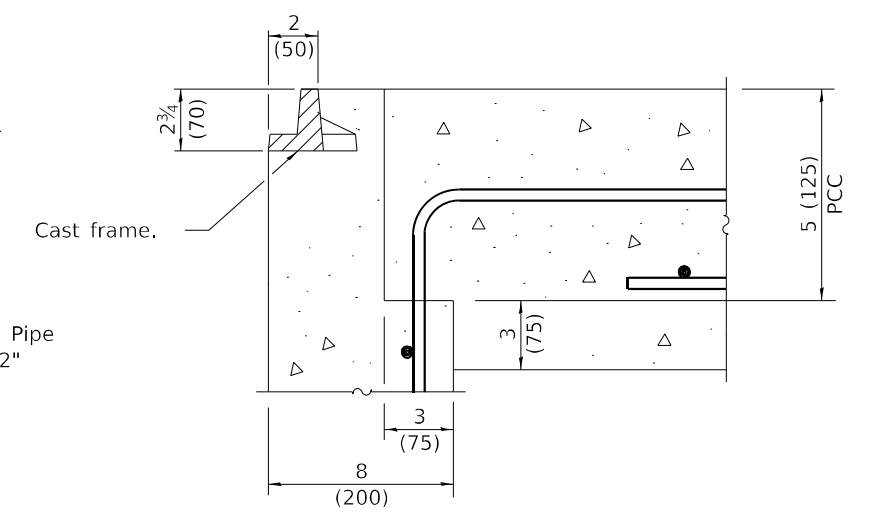
(Used to tie pipe to concrete collar)



DETAIL A SECTION B-B



DETAIL B SECTION B-B



DETAIL C



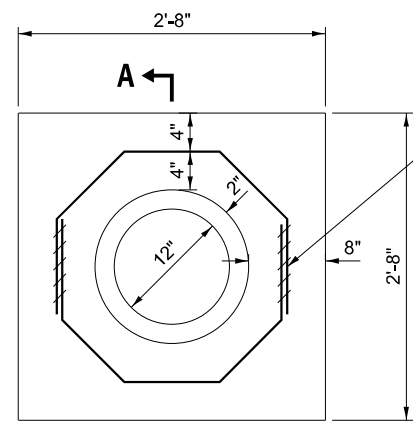
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| PLOT DATE = 10/9/2024 | DATE - 8/23/24 | REVISED - |

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

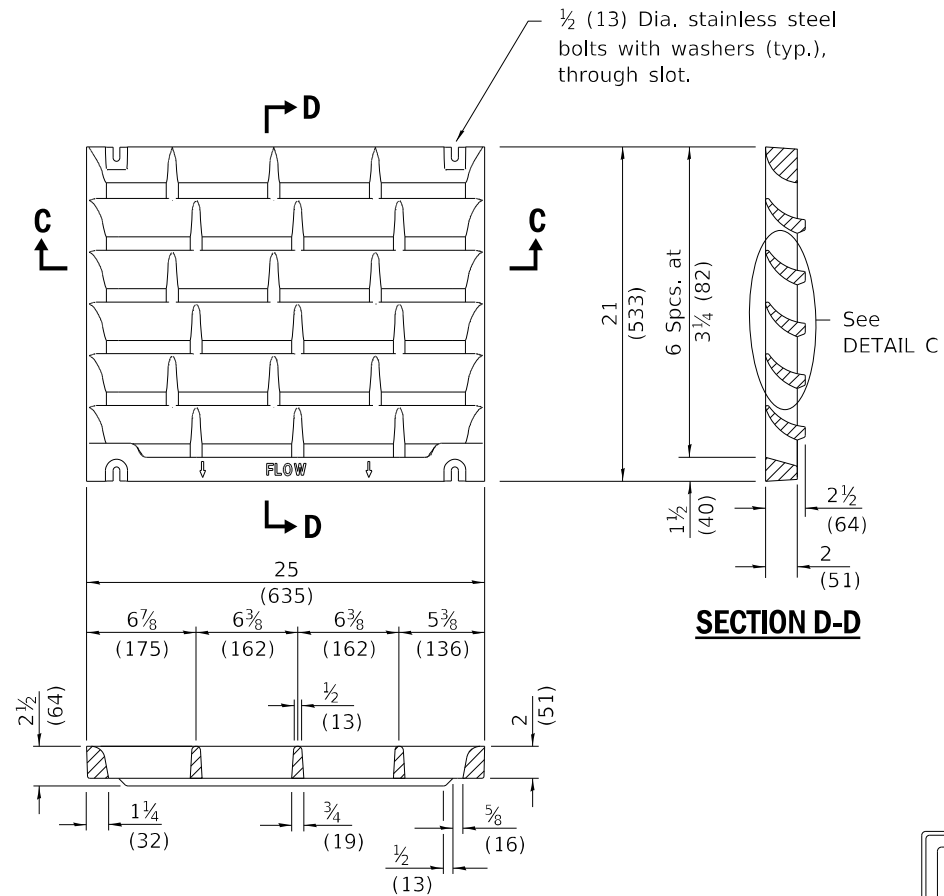
**TYPE E INLET BOX DETAIL
 CH 33**

SCALE: NTS SHEET 6 OF 7 SHEETS STA. TO STA.

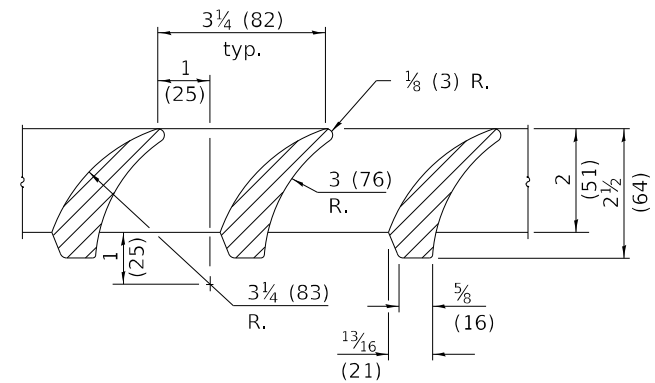
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| F.A.I. RTE. 39 | SECTION (50-5HB-2)BRR | COUNTY LASALLE | TOTAL SHEETS 35 | SHEET NO. 14 |
| CONTRACT NO. 66P36 | | | | |
| ILLINOIS FED. AID PROJECT | | | | |



END VIEW



SECTION C-C



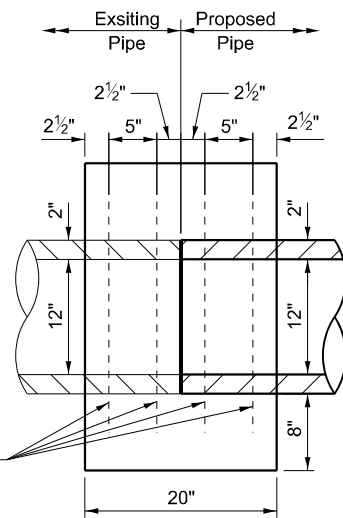
DETAIL C

INLET BOX
(4 Required)

| REQUIRED MATERIAL | | | |
|-------------------|------|----------------------------|---------------------|
| TYPE E | | | |
| Bar | Qty. | Size | Length |
| u | 6 | No. 4 (No.13) | 9'-9" (2.96 m) |
| u2 | 3 | No. 4 (No.13) | 11'-8" (3.56 m) |
| u4 | 4 | No. 4 (No.13) | 13'-1 1/2" (4.00 m) |
| Concrete | | cu. yds. (m ³) | 1.3 (1.0) |
| Reinf. bars | | lbs. (kg) | 98 (44.5) |
| Grating | | sq. ft. (m ²) | 7.3 (0.68) |

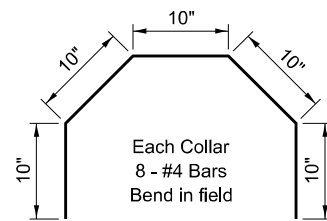
DETAIL OF CAST GRATE

Type E requires 2 grates

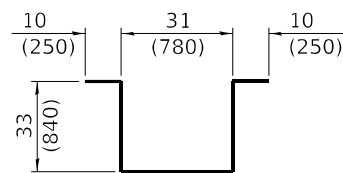


SECTION A-A

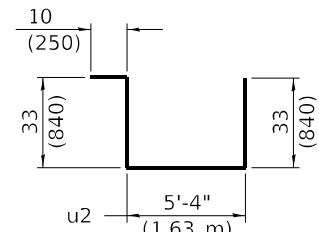
CONCRETE COLLAR DETAIL



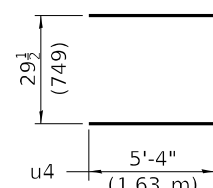
COLLAR BARS



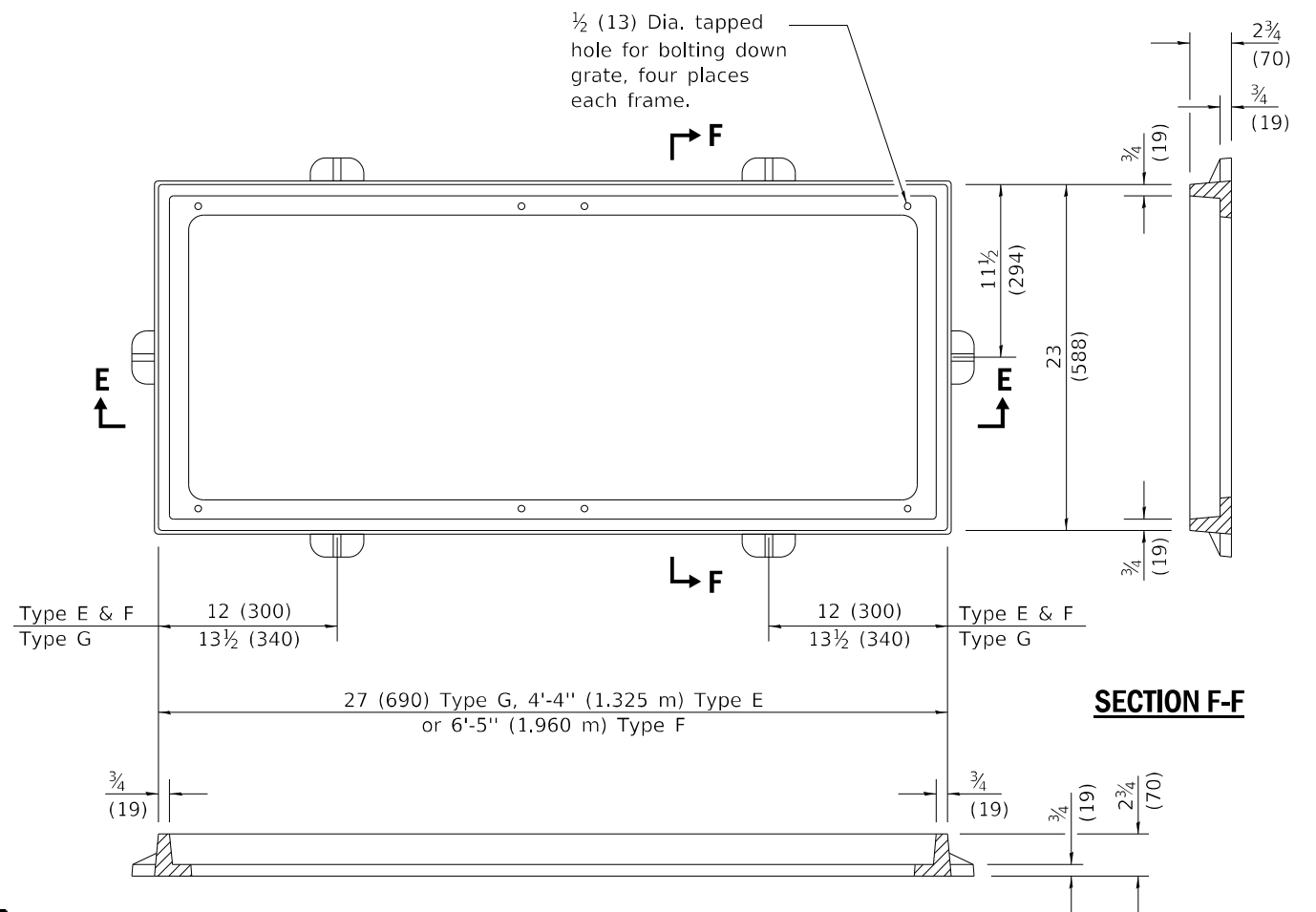
BAR u



BAR u2



BAR u4



SECTION E-E

SECTION F-F

DETAIL OF CAST FRAME

(Type E shown)

NOTES

Welded wire reinforcement (WWR) may be used in lieu of reinforcement bars. Only one layer of WWR is permitted to avoid congestion.

- Notes:
- The collar shall be constructed entirely of Class SI concrete in accordance with the applicable portions of Section 503 of the Standard Specifications. Reinforcement bars shall conform to Section 508.
 - This work shall be paid for by Each, for Concrete Collar, which price shall include all work shown in the detail.

MODEL: Inlet Detail 02 Sheet
FILE NAME: I:\2022\22069.05\DOT D3 - PTB_205-023 - W05 - LaSalle County 66P36\CADD\CAD\CADsheets\66P36-shr-Detail-Inlet02.dgn



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DRAWN - MS
CHECKED - JS
DATE - 8/23/24
PLOT DATE = 10/8/2024

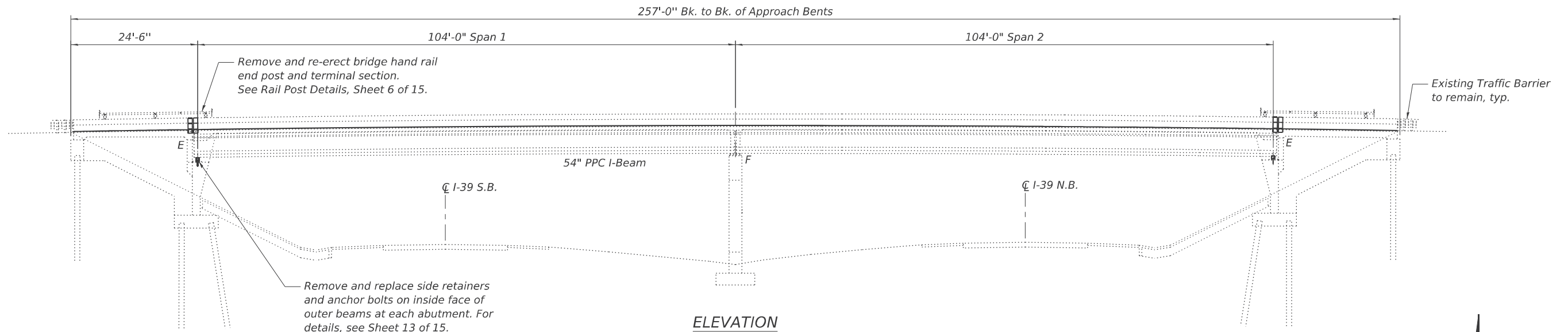
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

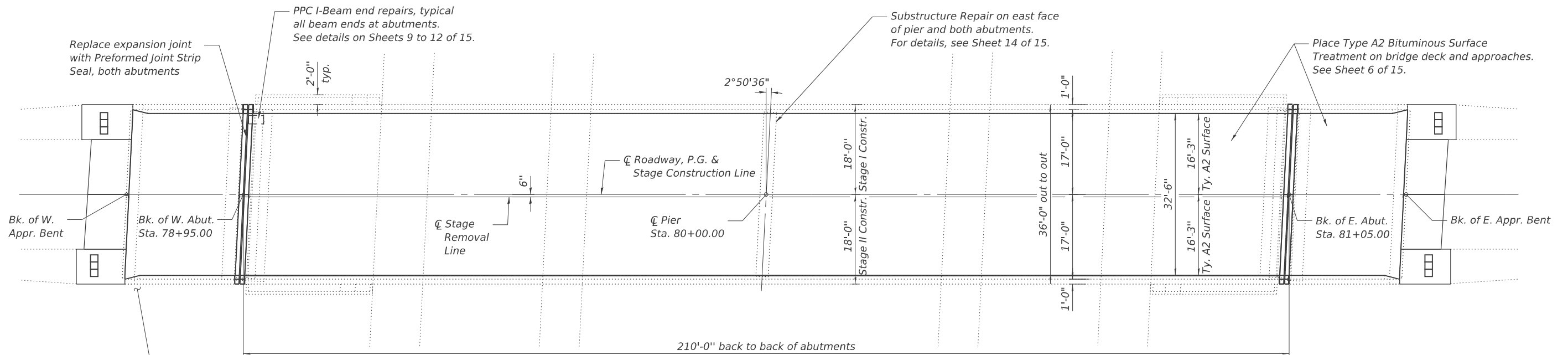
TYPE E INLET BOX DETAIL
CH 33

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

| F.A.I. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------------|---------------|---------|--------------|-----------|
| 39 | (50-5HB-2)BRR | LASALLE | 35 | 15 |
| CONTRACT NO. 66P36 | | | | |
| ILLINOIS FED. AID PROJECT | | | | |



ELEVATION



PLAN

DESIGN STRESSES

FIELD UNITS

NEW CONSTRUCTION

$f_c = 4,000$ psi
 $f_y = 60,000$ psi (Reinforcement)
 $f_y = 50,000$ psi (Struct. Steel, M270 Grade 50, posts)
 $f_y = 36,000$ psi (Struct. Steel, M270 Grade 36, all other structural steel)

EXISTING CONSTRUCTION

$f_c = 1,200$ psi (deck slab)
 $f_c = 1,400$ psi (*)
 $f_s = 20,000$ psi (Reinf.)
 $f_s = 24,000$ psi (Reinf.)
 * curb, parapet & appr. slab
 ** load factor design - substructure

PRECAST UNITS

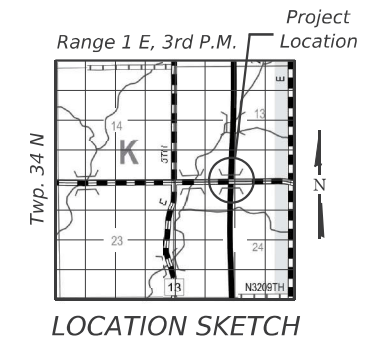
$f_c = 6,000$ psi
 $f_{ci} = 5,000$ psi
 $f_s = 270,000$ psi ($1/2$ " \varnothing strands)
 $f_s = 189,000$ psi ($1/2$ " \varnothing strands)

DESIGN SPECIFICATIONS

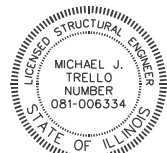
NEW CONSTRUCTION
 2002 AASHTO Standard Specifications for Highway Bridges, 17th Edition

EXISTING
 1973 Design Specifications & Interim (1974 as applicable)

LOADING HS-20 (EXISTING)
 Allow 25#/sq. ft. for future wearing surface.



BRIDGE REPAIRS
 F.A.S. 1365 (C.H. 33)
 OVER F.A.I. RTE 39
 SEC. (50-5HB-2)BRR
 LASALLE COUNTY
 STATION 80+00.00
 S.N. 050-0175



Date: October 11, 2024
 Expires: November 30, 2026

MODEL: Sheet
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 CONSULTING ENGINEERS
 A Limited Liability Company
 109 N. 21st Street, 10th Floor
 Springfield, IL 62761
 Phone: 217-529-0014

| | | |
|------------------------|---------------|-----------|
| USER NAME = myoung | DESIGNED - PA | REVISIONS |
| PLOT SCALE = \$SCALES | CHECKED - MJT | REVISIONS |
| PLOT DATE = 10/14/2024 | DRAWN - MMY | REVISIONS |
| | CHECKED - MJT | REVISIONS |

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

GENERAL PLAN & ELEVATION
 STRUCTURE NO. 050-0175

SHEET 1 OF 15 SHEETS

| F.A.I. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------------|---------------|---------|--------------|-----------|
| 39 | (50-5HB-2)BRR | LASALLE | 35 | 16 |
| CONTRACT NO. 66P36 | | | | |
| ILLINOIS FED. AID PROJECT | | | | |

INDEX OF SHEETS

- 1 General Plan and Elevation
- 2 General Data
- 3 Removal Plan
- 4 Removal Details
- 5 Joint Replacement Plan
- 6 Joint Replacement Details
- 7 Prefomed Joint Strip Seal
- 8 Bar Splicer Assembly and Mechanical Splicer Details
- 9 - 12 Beam Repair Details
- 13 Side Retainer Details
- 14 Substructure Repair Details
- 15 Erosion Repair Details

SCOPE OF WORK

- 1. Partial depth removal of deck ends & approaches at abutments including parapets.
- 2. Cast deck ends, parapets and approaches.
- 3. Place Prefomed Joint Strip Seal at joints at abutments.
- 4. Power wash bearing seats at abutments.
- 5. Repair concrete beam ends.
- 6. Replace side retainers & anchor bolts on inside of exterior beams at abutments.
- 7. Repair substructure.
- 8. Construct Erosion Repairs.

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 work; however, the Contractor will be paid for the quantity actually furnished at the unit price bid for the work.

All structural steel for expansion joints shall be AASHTO M 270 Grade 36

Reinforcement bars designated (E) shall be epoxy coated.

Protective Coat shall be applied to all new concrete

Existing reinforcement bars extending into the removal area shall be cleaned, straightened, and incorporated into the new construction. Any reinforcement bars that are damaged during concrete removal shall be replaced with an approved bar splicer or anchorage system. Cost included with Concrete Removal

Joint opening 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.

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

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

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

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

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

TOTAL BILL OF MATERIAL

| ITEM | UNIT | QUANTITY |
|--|---------|----------|
| Concrete Removal | Cu. Yd. | 3.0 |
| Concrete Superstructure | Cu. Yd. | 3.3 |
| Reinforcement Bars, Epoxy Coated | Pound | 565 |
| Bridge Washing No. 1 | Each | 1 |
| Protective Coat | Sq. Yd. | 15.6 |
| Bar Splicers | Each | 8 |
| Prefomed Joint Strip Seal | Foot | 72 |
| Furnishing and Erecting Structural Steel | Pound | 220 |
| Anchor Bolts, 1" | Each | 8 |
| Acrylic Coating | Sq. Yd. | 39.9 |
| Fiber Wrap | Sq. Ft. | 294 |
| Precast Prestressed Concrete I-Beam Repair | Sq. Ft. | 160 |
| Stone Riprap, Class A3 | Ton | 67 |
| Controlled Low Strength Material | Cu. Yd. | 7 |
| Structural Repair of Concrete (Depth Equal to or less than 5 Inches) | Sq. Ft. | 484 |

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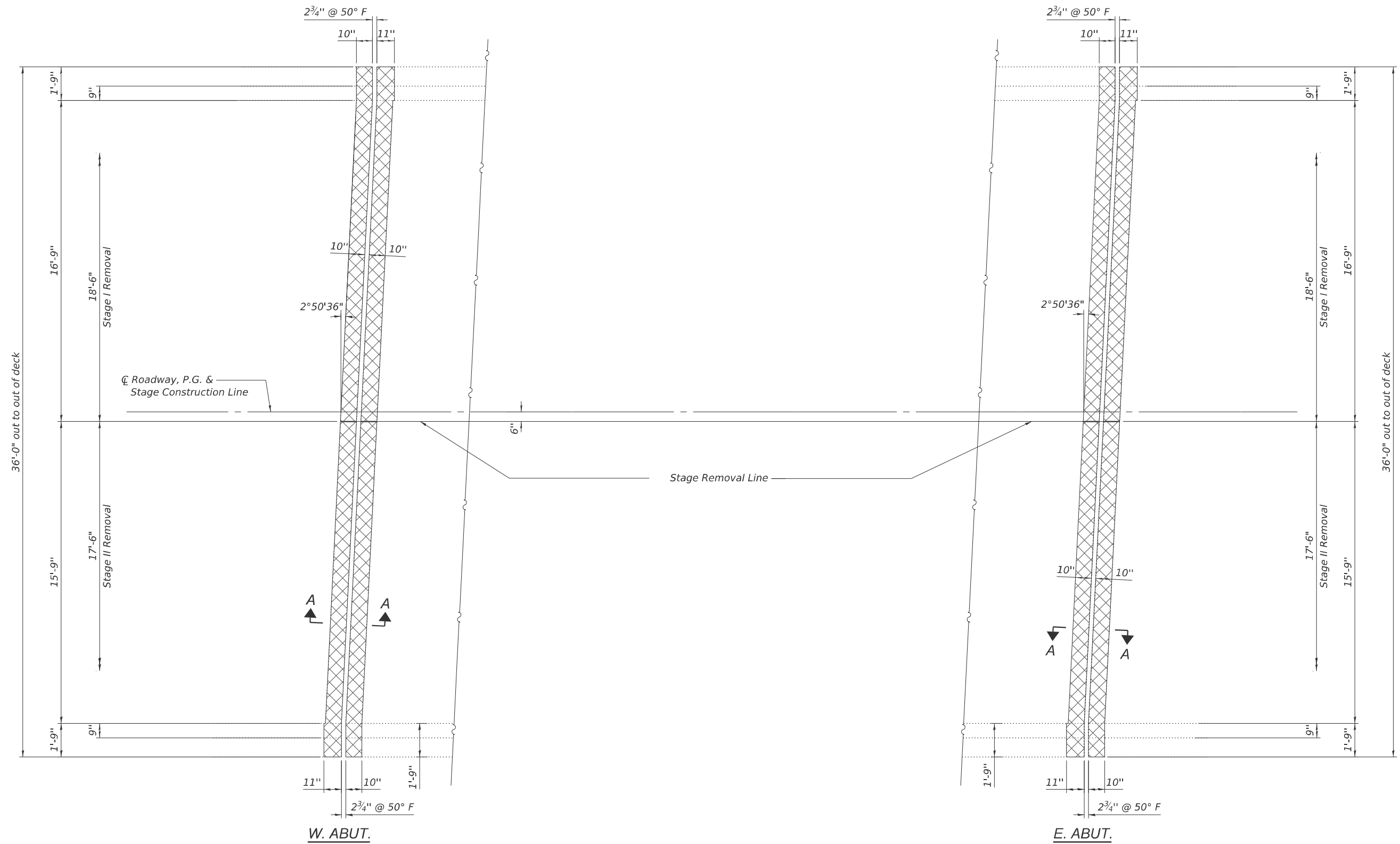
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| | CHECKED - MJT | REVISED - |

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**GENERAL DATA
 STRUCTURE NO. 050-0175**

SHEET 2 OF 15 SHEETS

| | | | | |
|---------------------------|-----------------------|----------------|--------------------|--------------|
| F.A.I. RTE. 39 | SECTION (50-5HB-2)BRR | COUNTY LASALLE | TOTAL SHEETS 35 | SHEET NO. 17 |
| ILLINOIS FED. AID PROJECT | | | CONTRACT NO. 66P36 | |



EXISTING PLAN

LEGEND

Concrete Removal

NOTES:

For Section A-A, See Sheet 4 of 15.

MODEL: Sheet
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A Limited Liability Company
109 N. 7th Street, 3rd Floor
Springfield, IL 62701
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Professional Design Firm No. 284-006536

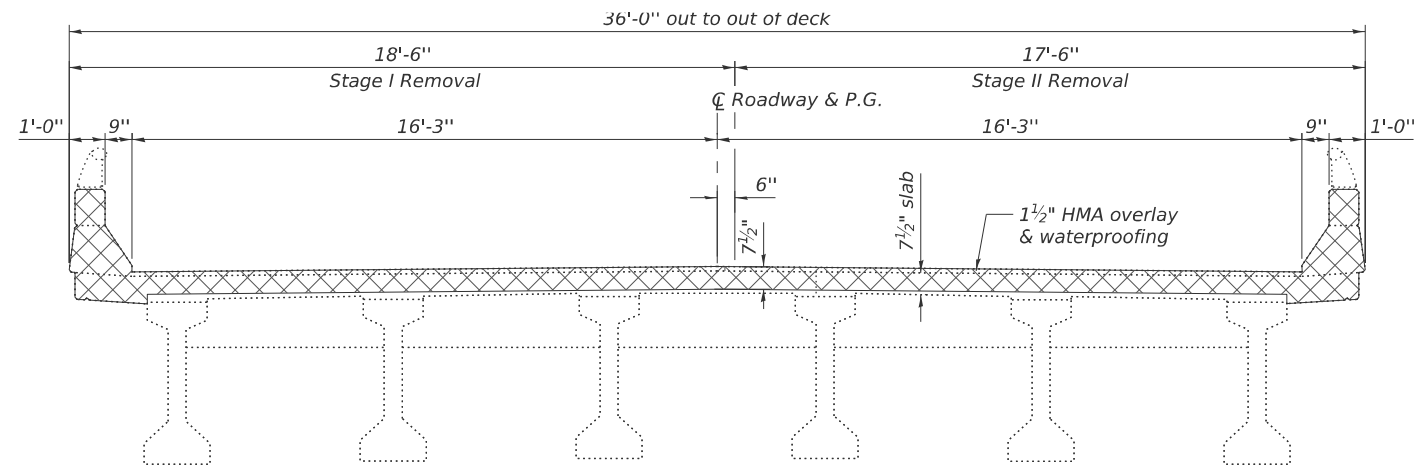
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**JOINT REMOVAL PLAN
STRUCTURE NO. 050-0175**

SHEET 3 OF 15 SHEETS

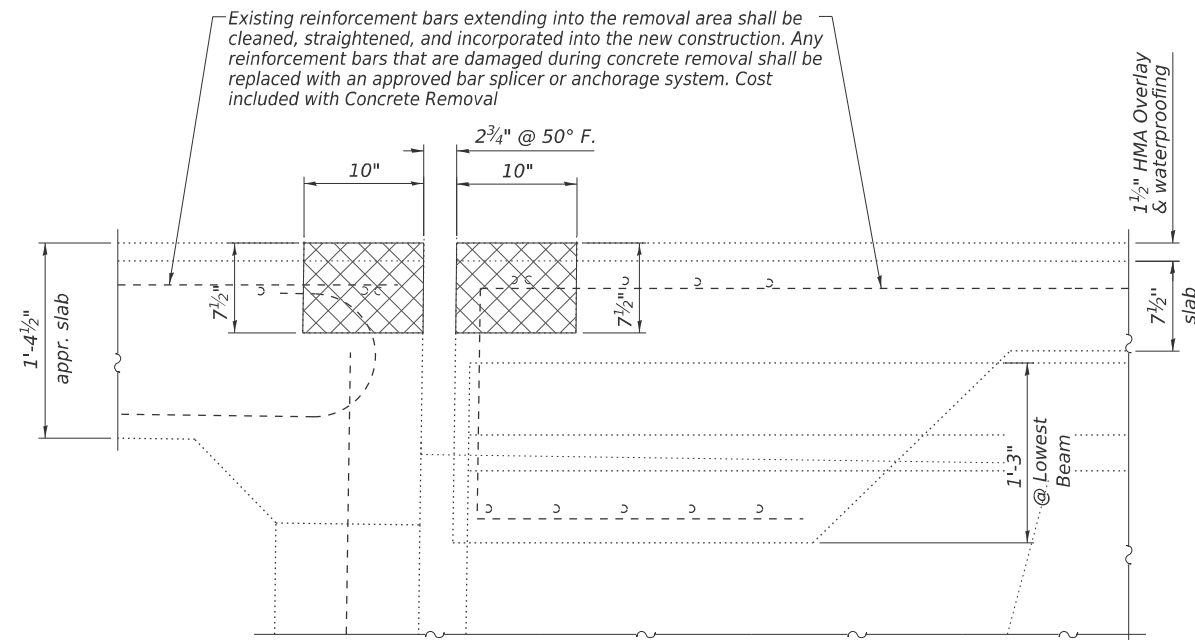
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| CONTRACT NO. 66P36 | | | | |
| | | ILLINOIS | FED. AID PROJECT | |



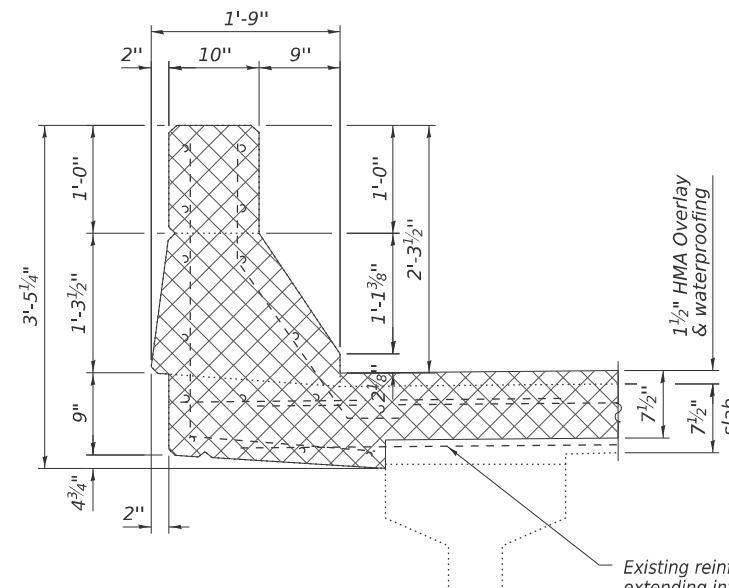
CROSS SECTION AT JOINT REPLACEMENT LOCATIONS
(Looking East)

LEGEND

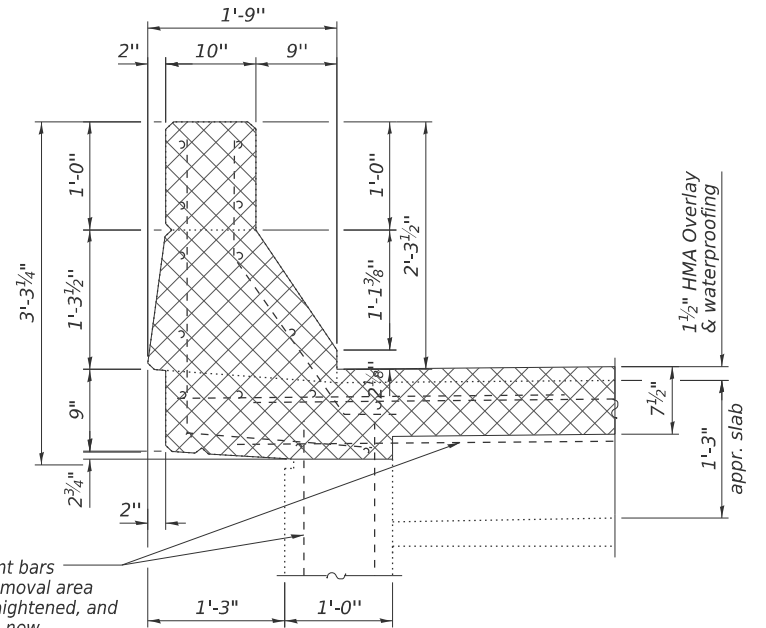
Concrete Removal



SECTION A-A
Dimensions at Rt. L's



SECTION THRU DECK



Existing reinforcement bars extending into the removal area shall be cleaned, straightened, and incorporated into the new construction. Any reinforcement bars that are damaged during concrete removal shall be replaced with an approved bar splicer or anchorage system. Cost included with Concrete Removal.

SECTION THRU APPROACH BENT

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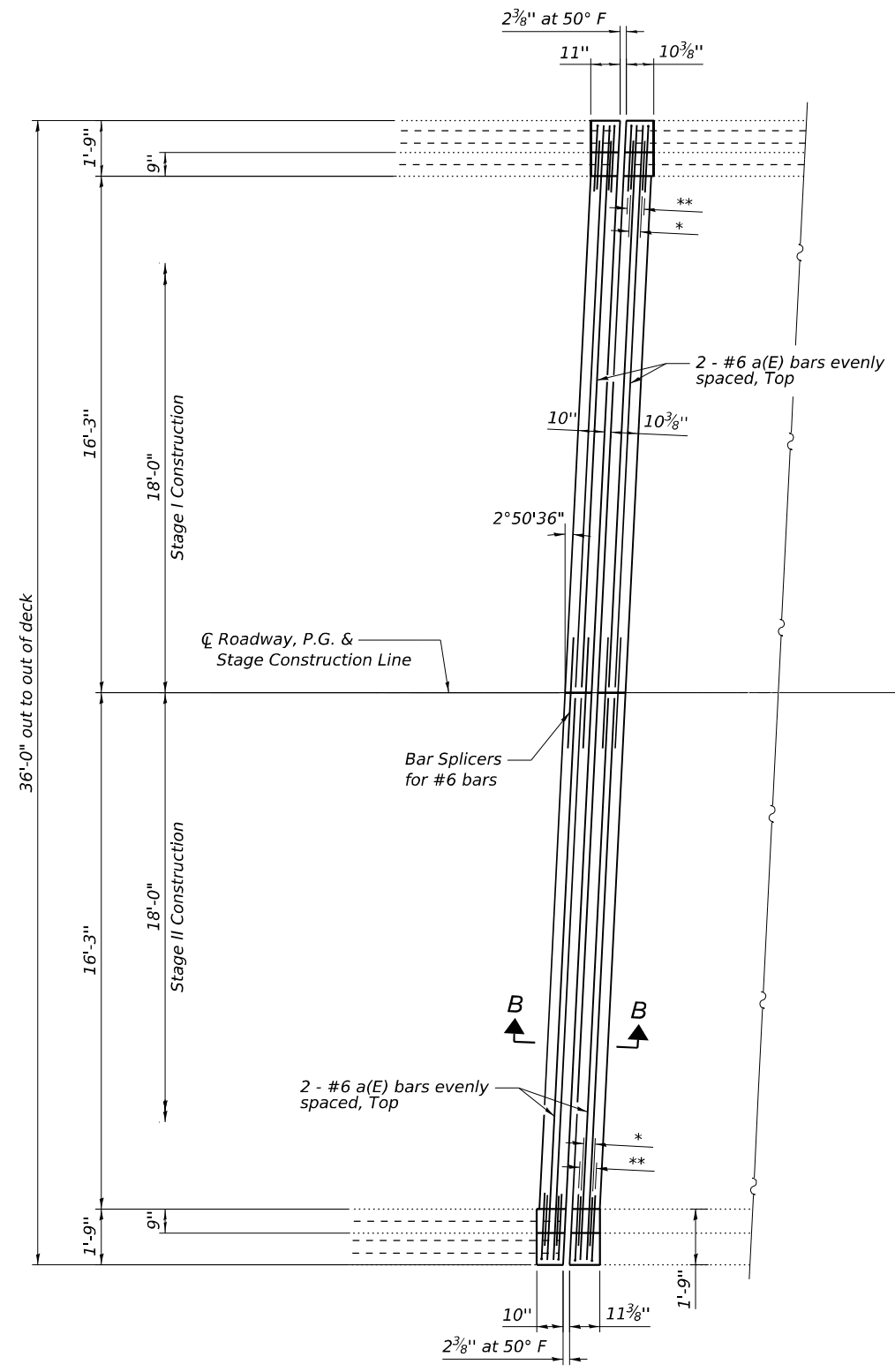
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

REMOVAL DETAILS
STRUCTURE NO. 050-0175

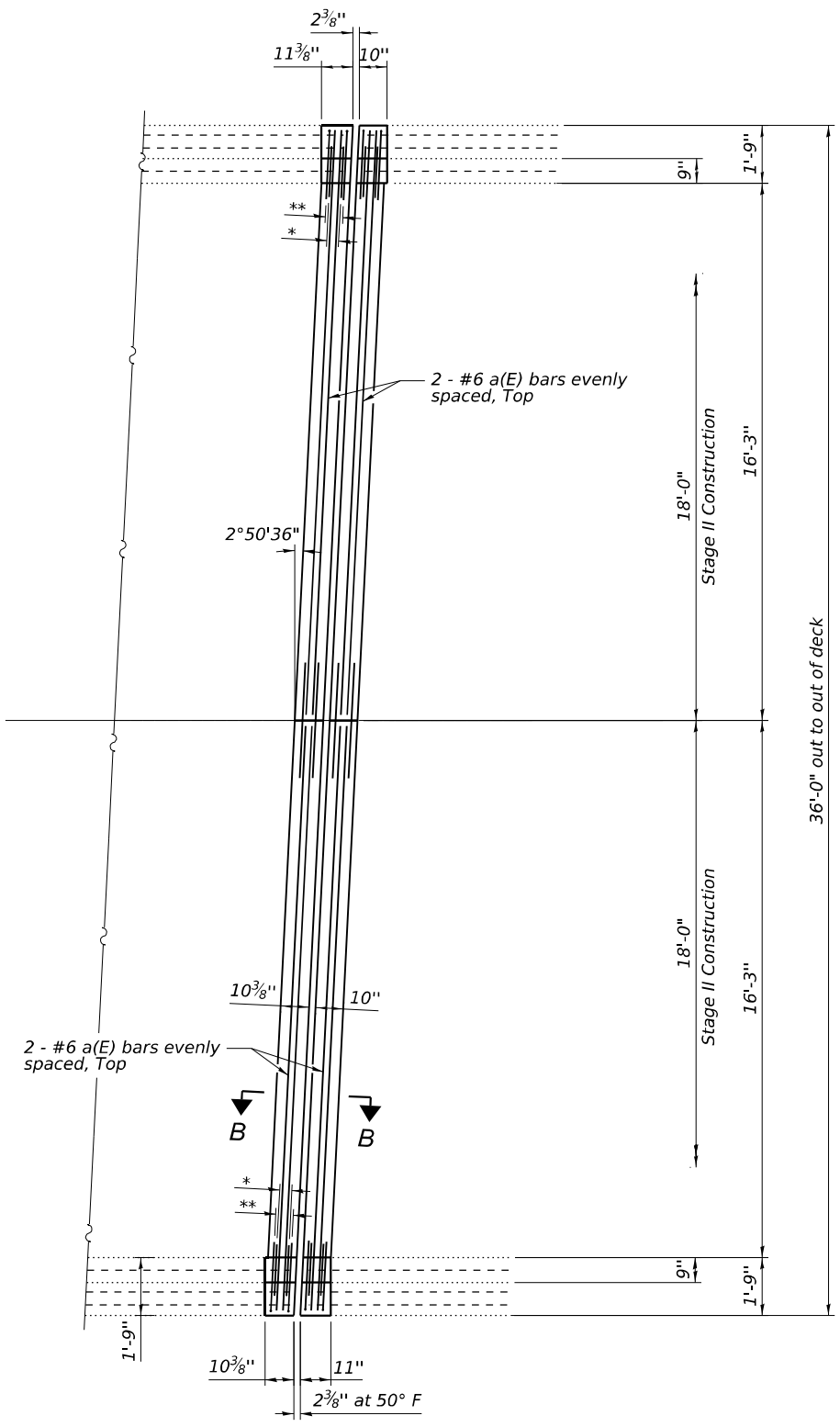
SHEET 4 OF 15 SHEETS

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| CONTRACT NO. 66P36 | | | | |
| ILLINOIS FED. AID PROJECT | | | | |



W. ABUT.

PROPOSED PLAN



E. ABUT.

- NOTES:**
 For Section B-B, See Sheet 6 of 15.
 * 2 - #5 d(E) bars E.F., each corner of deck & approach parapet
 ** 2 - #5 d1(E) bars, I.F., each corner of deck & approach parapet

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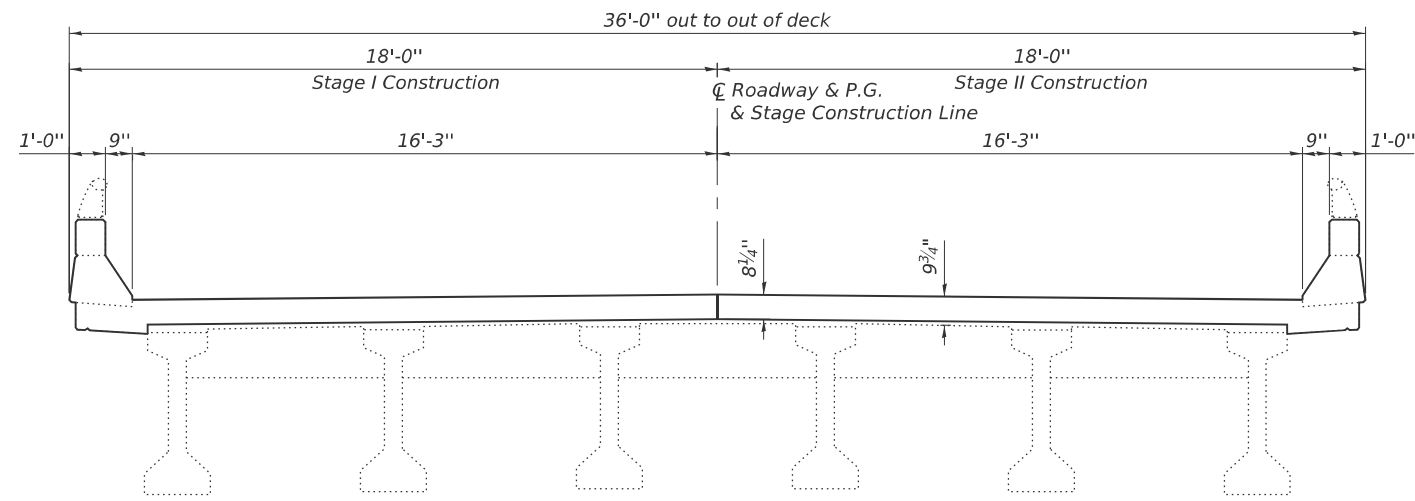

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

JOINT REPLACEMENT PLAN
STRUCTURE NO. 050-0175
 SHEET 5 OF 15 SHEETS

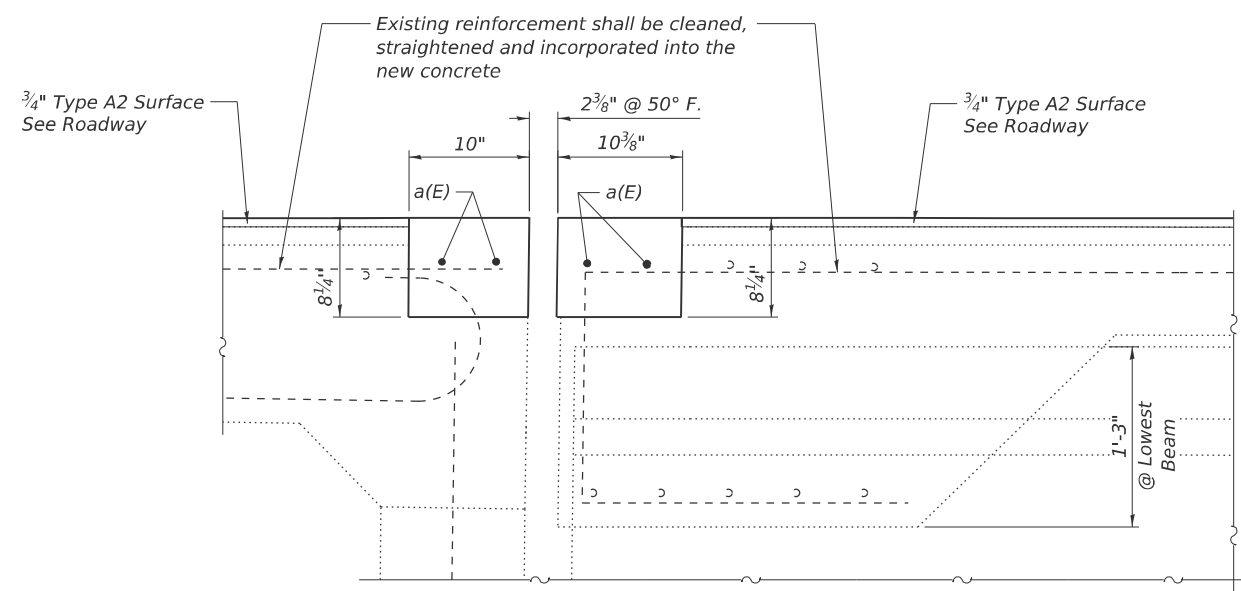
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| CONTRACT NO. 66P36 | | | | |
| ILLINOIS FED. AID PROJECT | | | | |



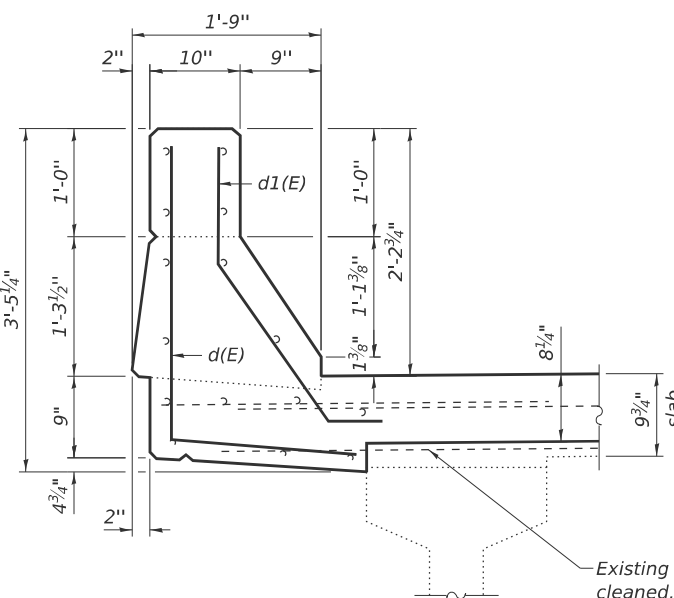
CROSS SECTION AT JOINT REPLACEMENT LOCATIONS

(Looking East)

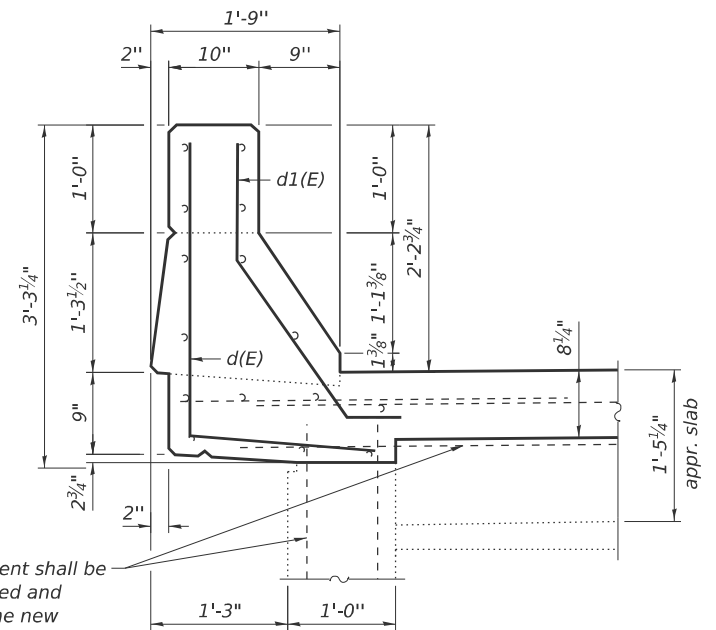
- Notes:
- Existing horizontal bars in parapet and existing longitudinal bars in slab shall remain and be incorporated into the new construction.
 - Rail shall be removed and re-erected as necessary to allow structure modifications. Cost included in Concrete Removal.



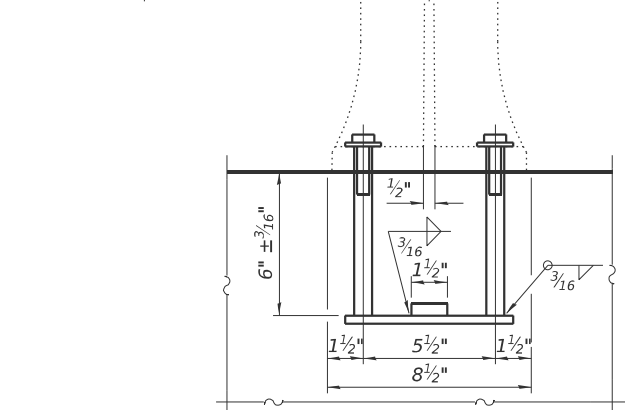
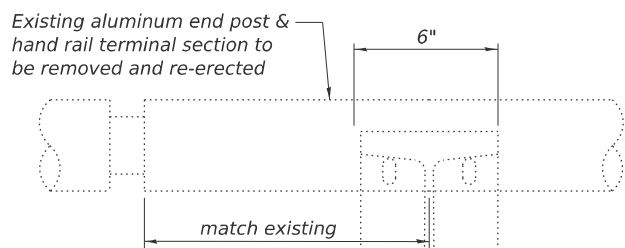
SECTION B-B
Dimensions at Rt. L's



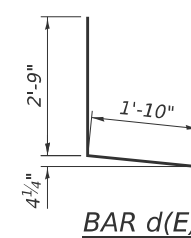
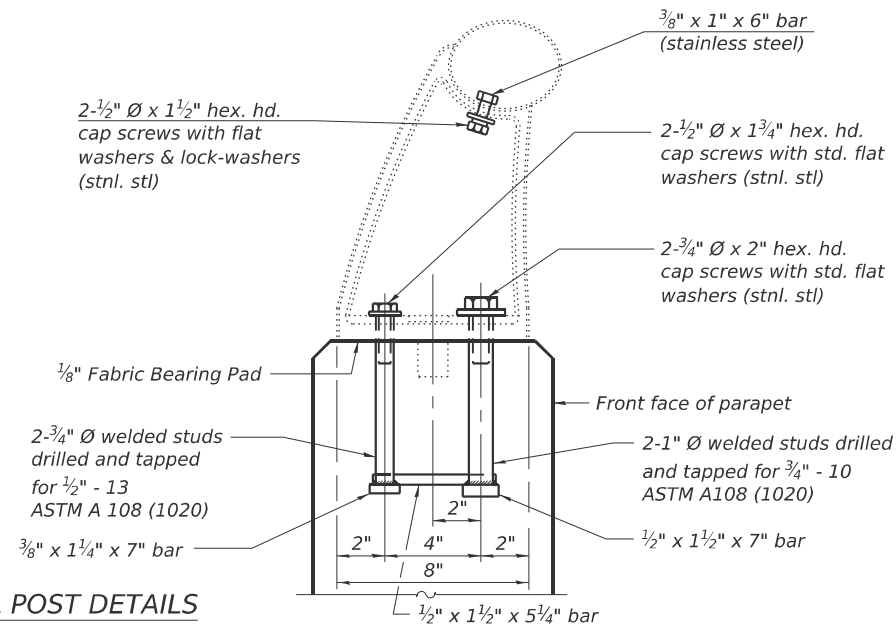
SECTION THRU DECK



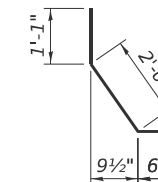
SECTION THRU APPROACH BENT



RAIL POST DETAILS



BAR d(E)



BAR d1(E)

BILL OF MATERIAL

| Bar | No. | Size | Length | Shape |
|----------------------------------|-----|------|---------|-------|
| a(E) | 16 | #6 | 17'-9" | — |
| d(E) | 16 | #5 | 4'-7" | L |
| d1(E) | 16 | #5 | 3'-7" | └ |
| Concrete Removal | | | Cu. Yd. | 3.0 |
| Concrete Superstructure | | | Cu. Yd. | 3.3 |
| Reinforcement Bars, Epoxy Coated | | | Pound | 565 |
| Bar Splicers | | | Each | 8 |

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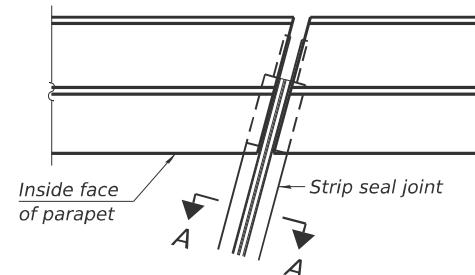
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

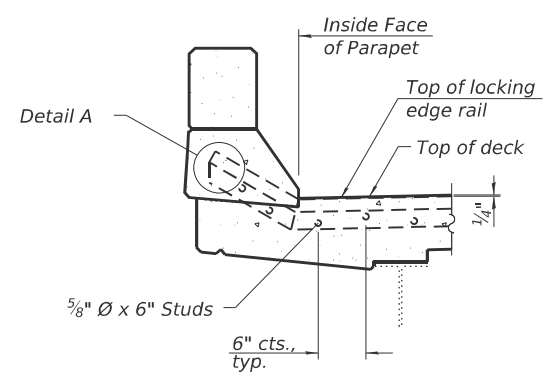
JOINT REPLACEMENT DETAILS
STRUCTURE NO. 050-0175

SHEET 6 OF 15 SHEETS

| | | | | |
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| F.A.I. RTE. 39 | SECTION (50-5HB-2)BRR | COUNTY LASALLE | TOTAL SHEETS 35 | SHEET NO. 21 |
| ILLINOIS FED. AID PROJECT | | | CONTRACT NO. 66P36 | |

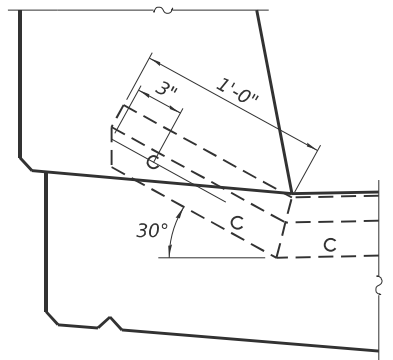


PLAN AT PARAPET

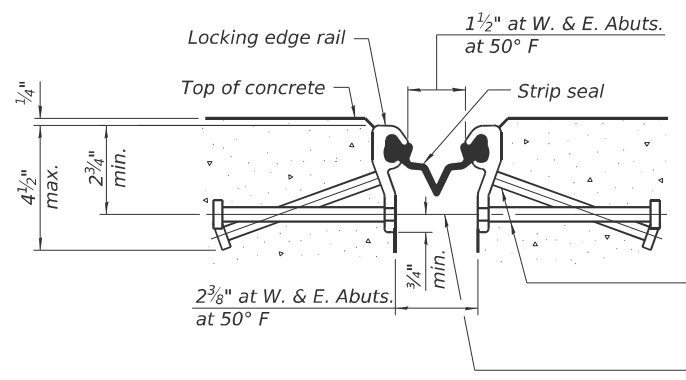


SECTION AT PARAPET

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



DETAIL A



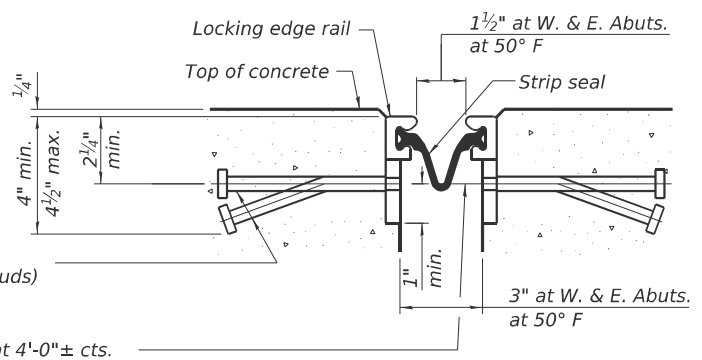
SHOWING ROLLED RAIL JOINT

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

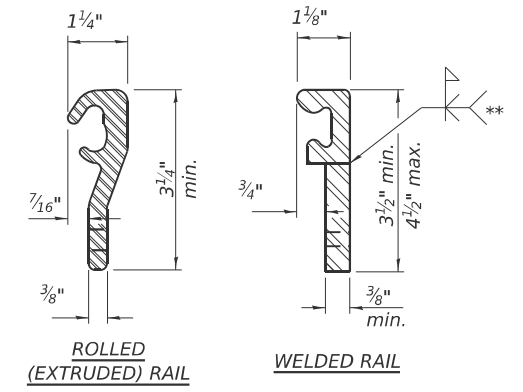
3/8" Ø threaded rods in 7/16" Ø holes at 4'-0" ± cts. for holding the proper joint opening based on the temperature during the deck pour. Place to miss studs. All rods shall be burned, or sawed off flush with the plates after concrete is set.

SECTION A-A

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

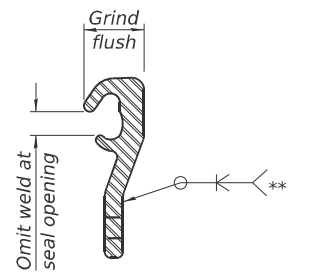


SHOWING WELDED RAIL JOINT



LOCKING EDGE RAILS

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



LOCKING EDGE RAIL SPLICE

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

BILL OF MATERIAL

| Item | Unit | Total |
|----------------------------|------|-------|
| Preformed Joint Strip Seal | Foot | 72 |

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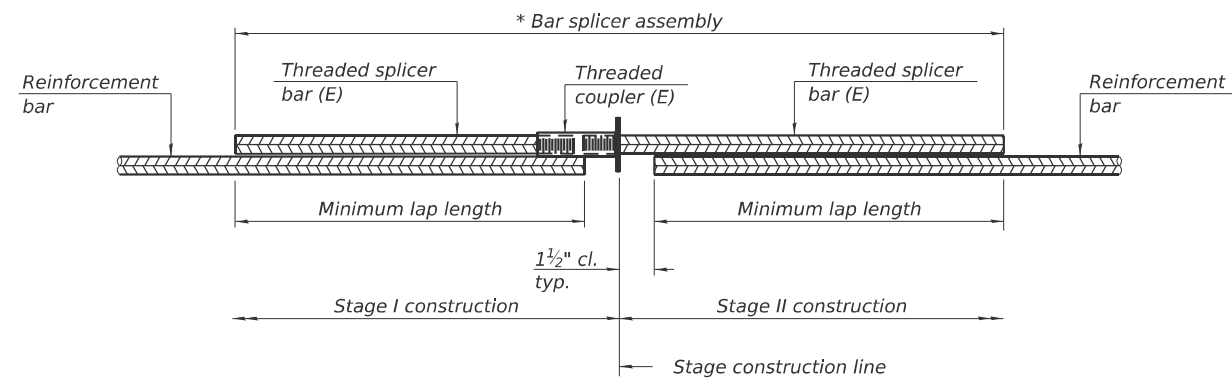
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STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

PREFORMED JOINT STRIP SEAL
 STRUCTURE NO. 050-0175

SHEET 7 OF 15 SHEETS

| | | | | |
|---------------------------|-----------------------|----------------|--------------------|--------------|
| F.A.I. RTE. 39 | SECTION (50-5HB-2)BRR | COUNTY LASALLE | TOTAL SHEETS 35 | SHEET NO. 22 |
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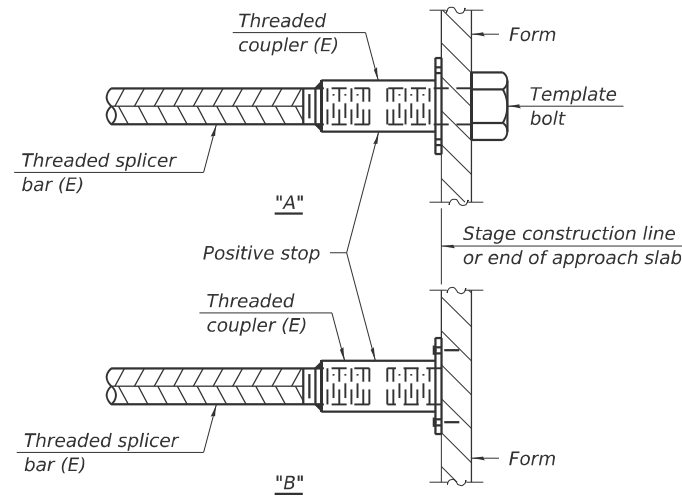
STANDARD BAR SPLICER ASSEMBLY PLAN

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 |
|---------------------|----------|-------------------------|--------------------|
| W. Abut. - Deck | #6 | 2 | 4'-0" |
| W. Abut. - Approach | #6 | 2 | 4'-0" |
| E. Abut. - Deck | #6 | 2 | 4'-0" |
| E. Abut. - Approach | #6 | 2 | 4'-0" |

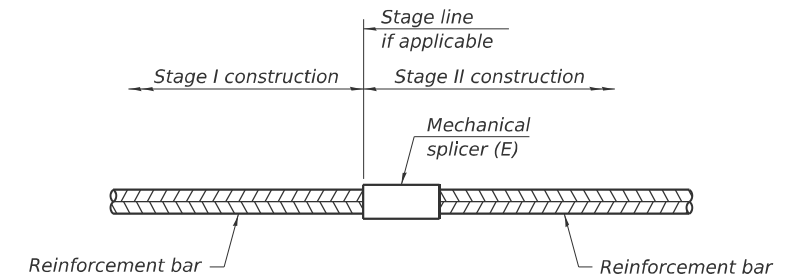


INSTALLATION AND SETTING METHODS

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

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

(E) : Indicates epoxy coating.



STANDARD MECHANICAL SPLICER

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

Notes:

Splicer bars shall be deformed with threaded ends and have a minimum 60 ksi yield strength.

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

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

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

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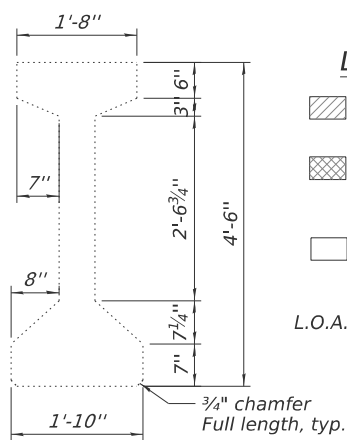
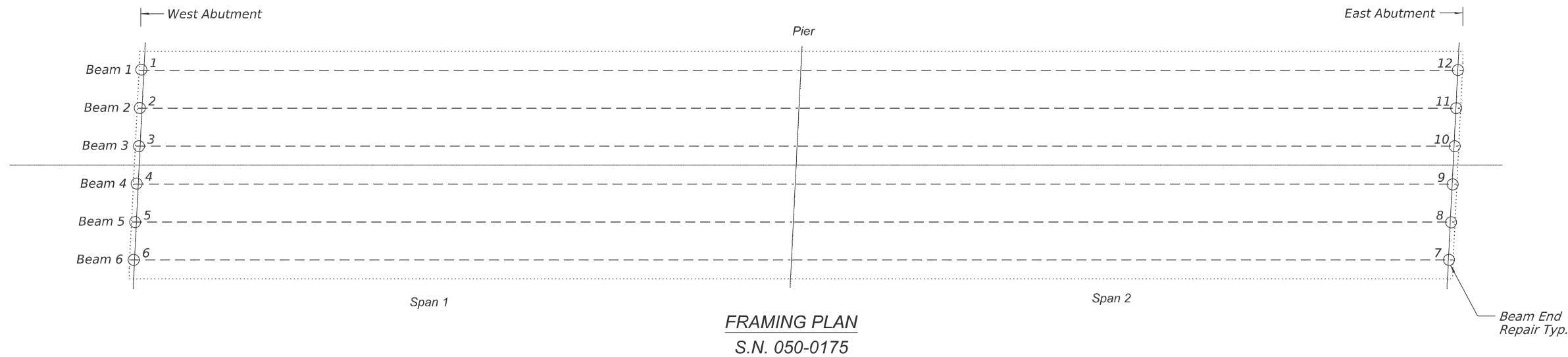
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BAR SPLICER ASSEMBLY AND MECHANICAL SPLICER DETAILS
STRUCTURE NO. 050-0175

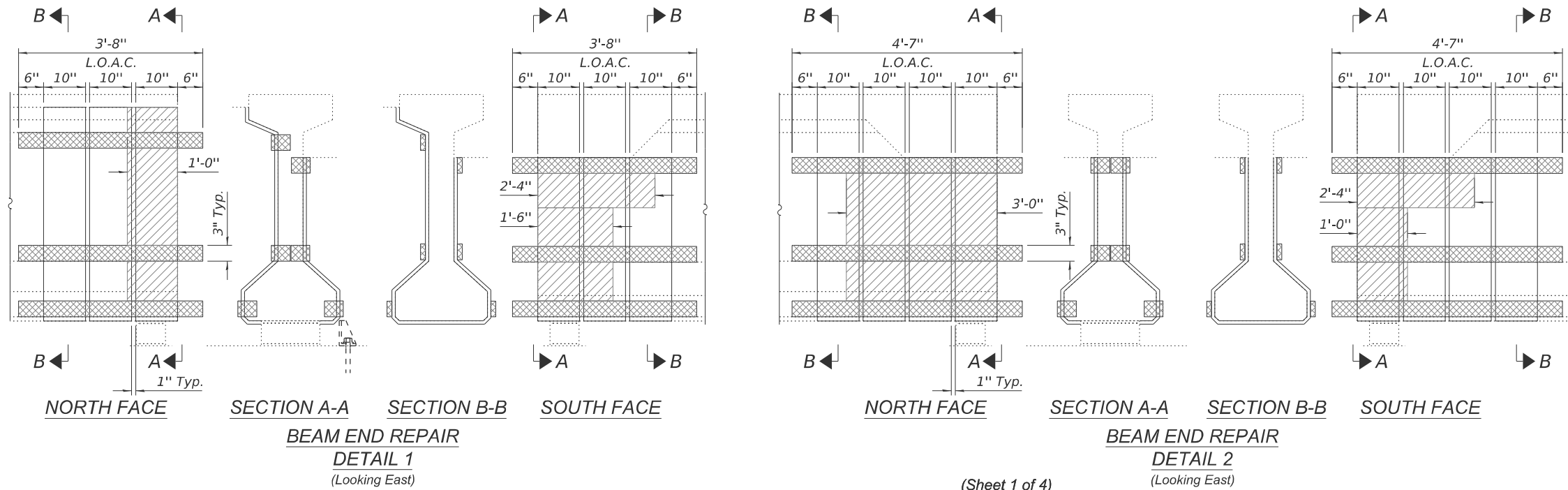
SHEET 8 OF 15 SHEETS

| F.A.I. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|-------------|---------------|---------|------------------|-----------|
| 39 | (50-SHB-2)BRR | LASALLE | 35 | 23 |
| ILLINOIS | | | FED. AID PROJECT | |

CONTRACT NO. 66P36



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



TYPICAL BEAM DIMENSIONS

BEAM END REPAIR DETAIL 1 (Looking East)

BEAM END REPAIR DETAIL 2 (Looking East)

(Sheet 1 of 4)



| | | |
|------------------------|---------------|-----------|
| USER NAME = msutheard | DESIGNED - PA | REVISED - |
| PLOT SCALE = \$SCALES | CHECKED - MJT | REVISED - |
| PLOT DATE = 10/10/2024 | DRAWN - MMY | REVISED - |
| | CHECKED - MJT | REVISED - |

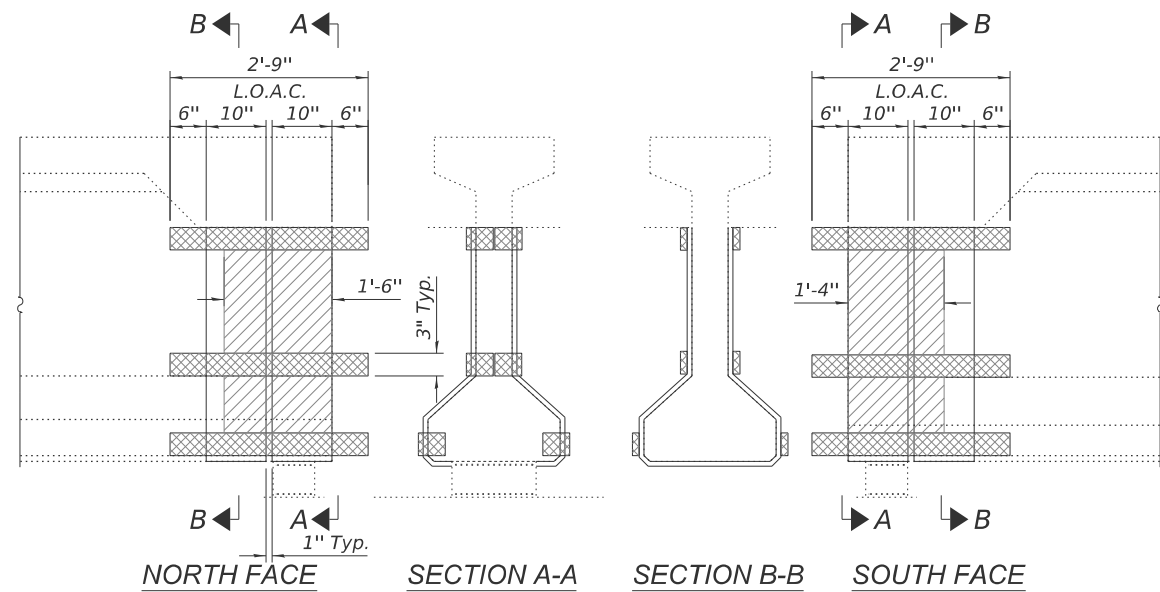
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BEAM REPAIR DETAILS
STRUCTURE NO. 050-0175

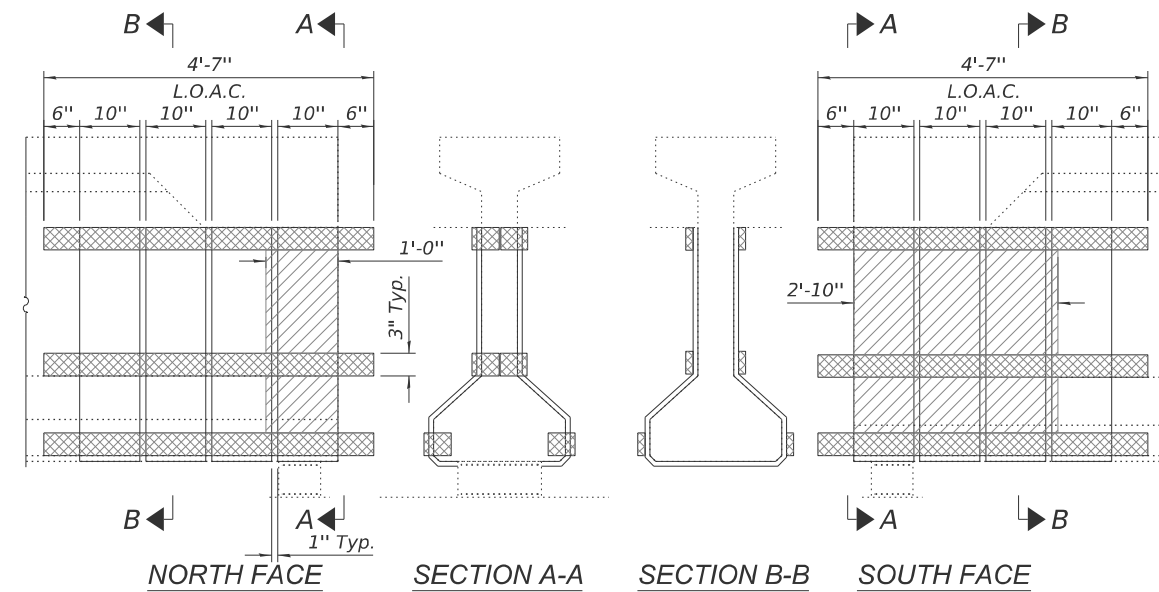
SHEET 9 OF 15 SHEETS

| F.A.I. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------------|---------------|---------|--------------|-----------|
| 39 | (50-5HB-2)BRR | LASALLE | 35 | 24 |
| ILLINOIS FED. AID PROJECT | | | | |

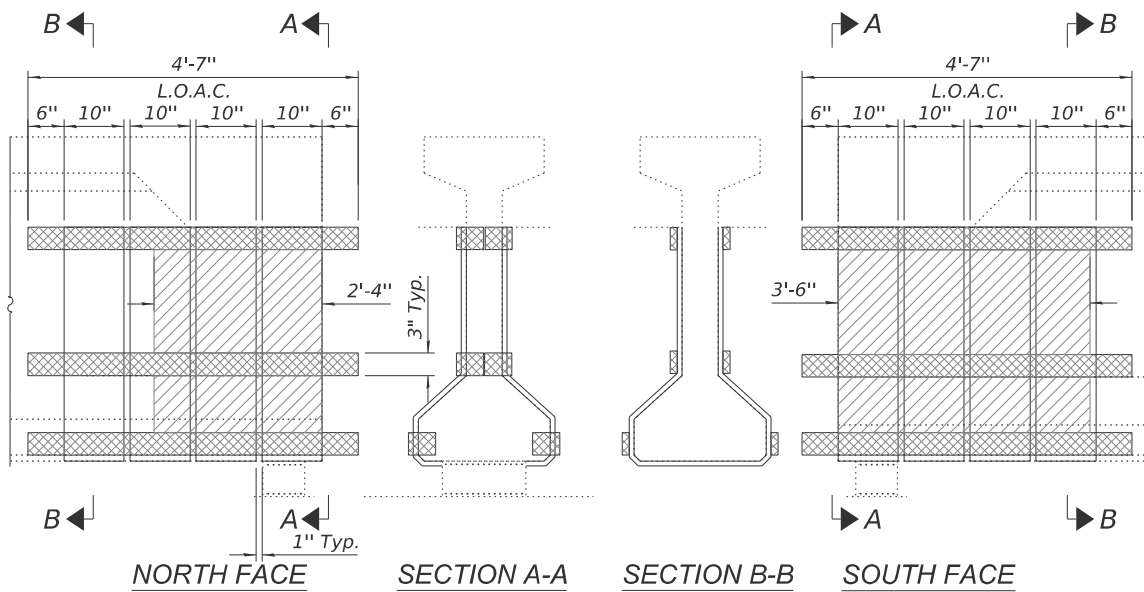
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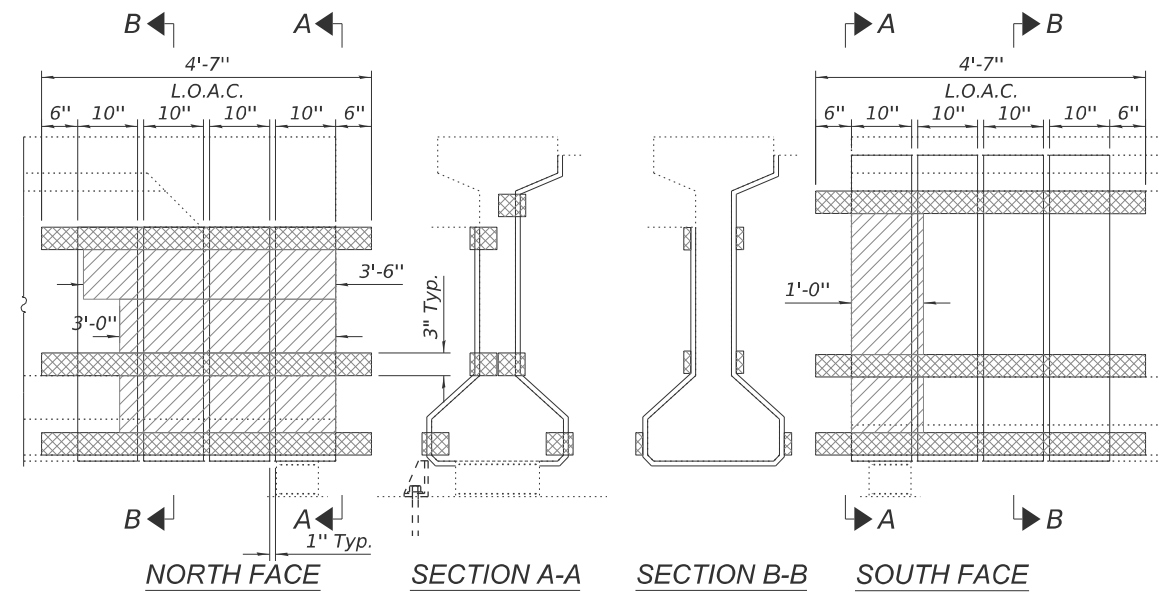
**BEAM END REPAIR
DETAIL 3**
(Looking East)



**BEAM END REPAIR
DETAIL 4**
(Looking East)



**BEAM END REPAIR
DETAIL 5**
(Looking East)



**BEAM END REPAIR
DETAIL 6**
(Looking East)

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

(Sheet 2 of 4)

MODEL: Sheet
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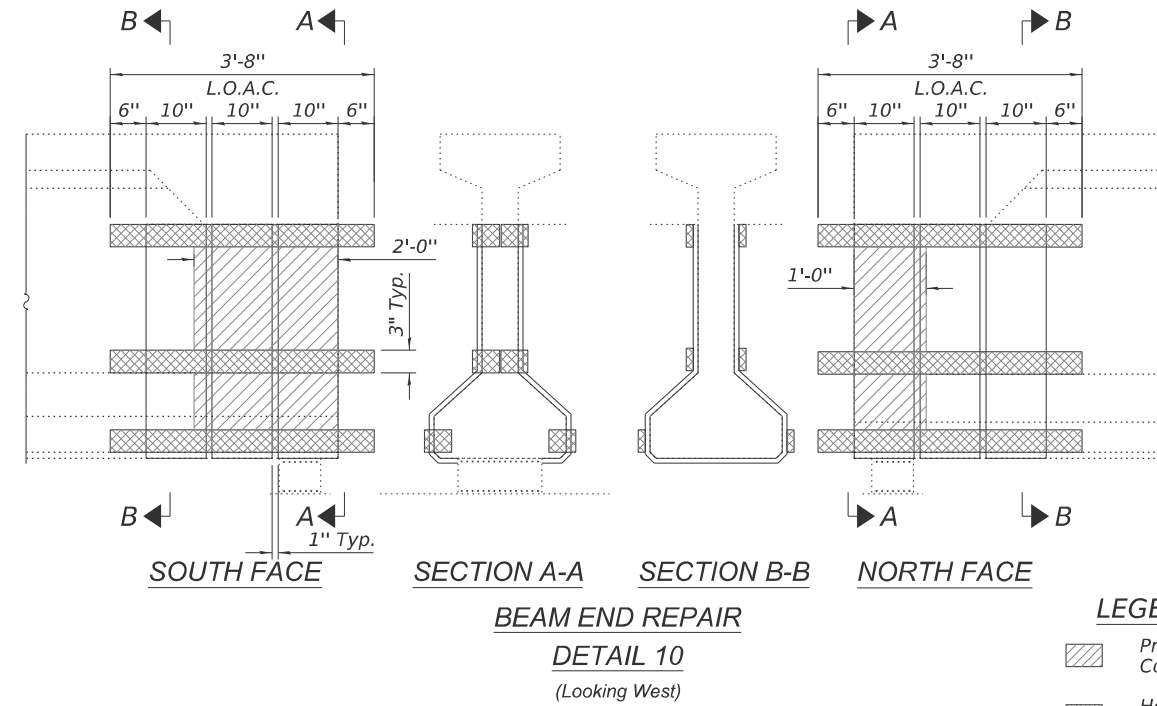
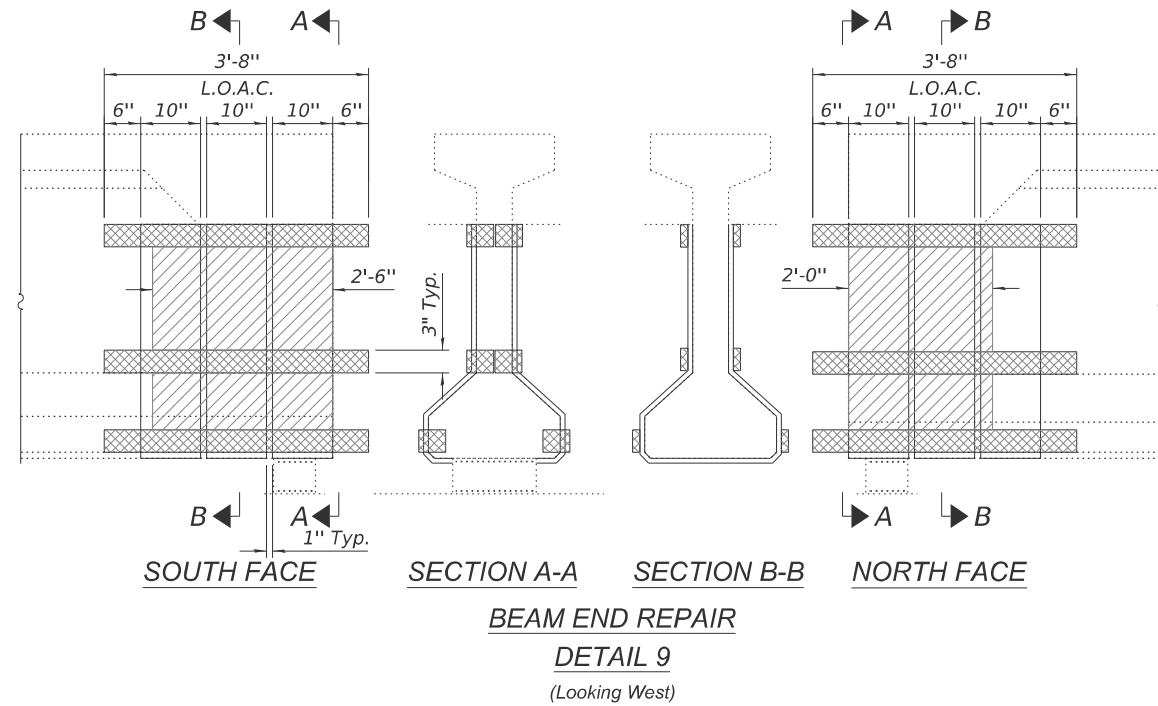
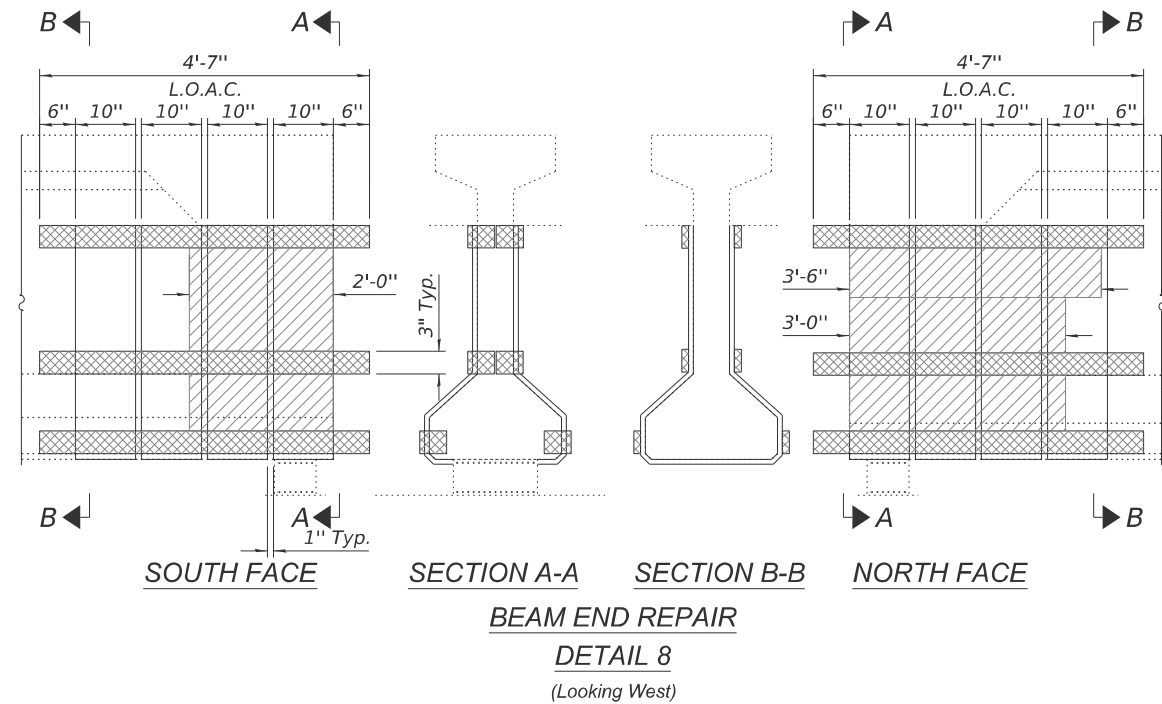
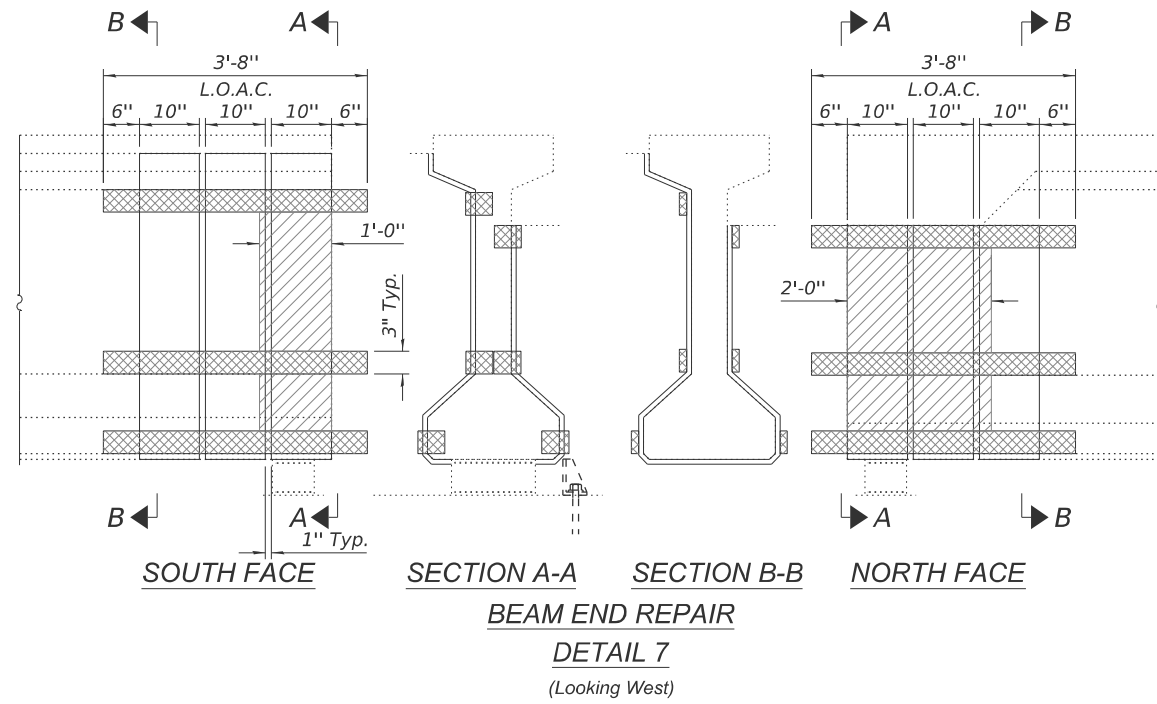
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| PLOT DATE = 10/10/2024 | DRAWN - MMY | REVISED - |
| | CHECKED - MJT | REVISED - |




**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**BEAM REPAIR DETAILS
STRUCTURE NO. 050-0175**

SHEET 10 OF 15 SHEETS

| F.A.I. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------------|---------------|---------|--------------|-----------|
| 39 | (50-5HB-2)BRR | LASALLE | 35 | 25 |
| CONTRACT NO. 66P36 | | | | |
| ILLINOIS FED. AID PROJECT | | | | |



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

(Sheet 3 of 4)

MODEL: Sheet
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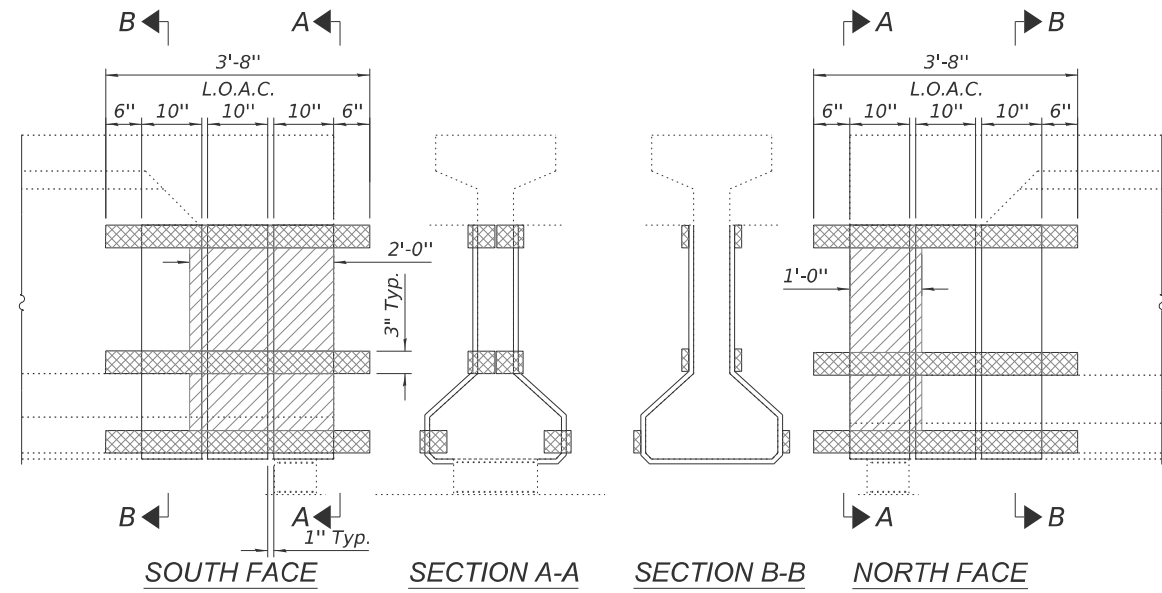
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| PLOT DATE = 10/10/2024 | DRAWN - MMY | REVISED - |
| | CHECKED - MJT | REVISED - |

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

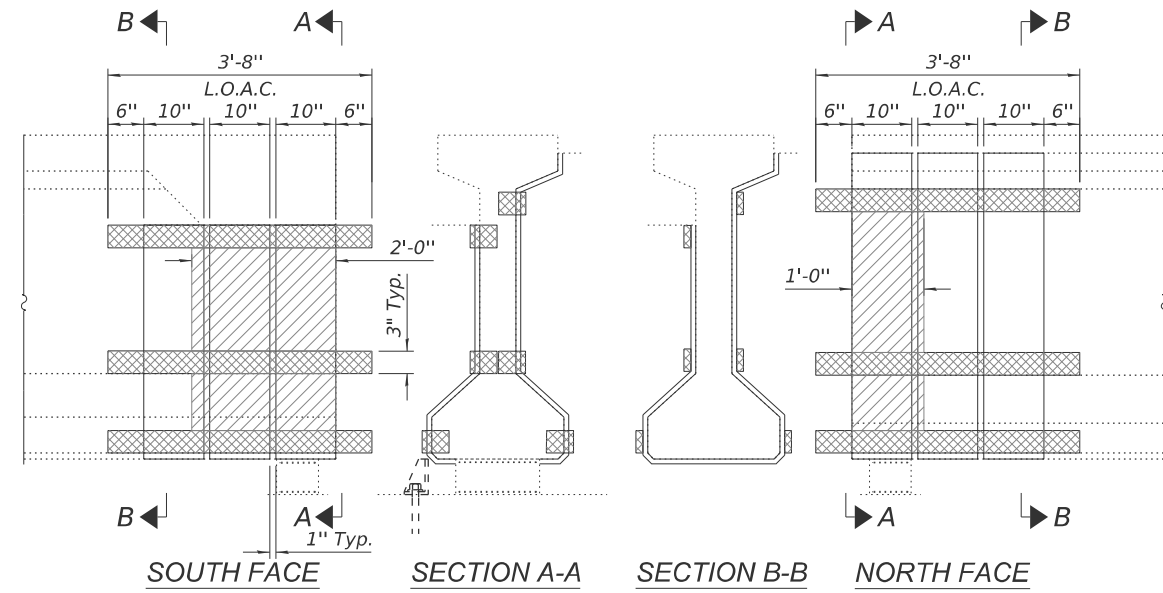
BEAM REPAIR DETAILS
STRUCTURE NO. 050-0175

SHEET 11 OF 15 SHEETS

| F.A.I. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|-------------|---------------|---------------------------|--------------------|-----------|
| 39 | (50-5HB-2)BRR | LASALLE | 35 | 26 |
| | | | CONTRACT NO. 66P36 | |
| | | ILLINOIS FED. AID PROJECT | | |



BEAM END REPAIR
DETAIL 11
 (Looking West)



BEAM END REPAIR
DETAIL 12
 (Looking West)

LEGEND

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

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

BILL OF MATERIAL

| Item | Unit | Total |
|--|---------|-------|
| Fiber Wrap | Sq. Ft. | 294 |
| Acrylic Coating | Sq. Yd. | 39.9 |
| Precast Prestressed Concrete I-Beam Repair | Sq. Ft. | 160 |

(Sheet 4 of 4)

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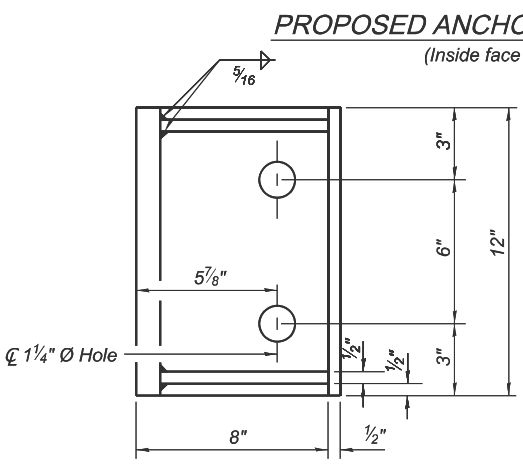
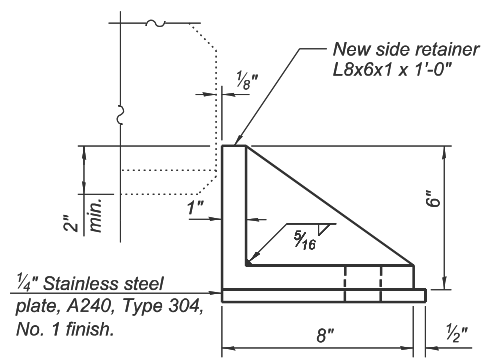
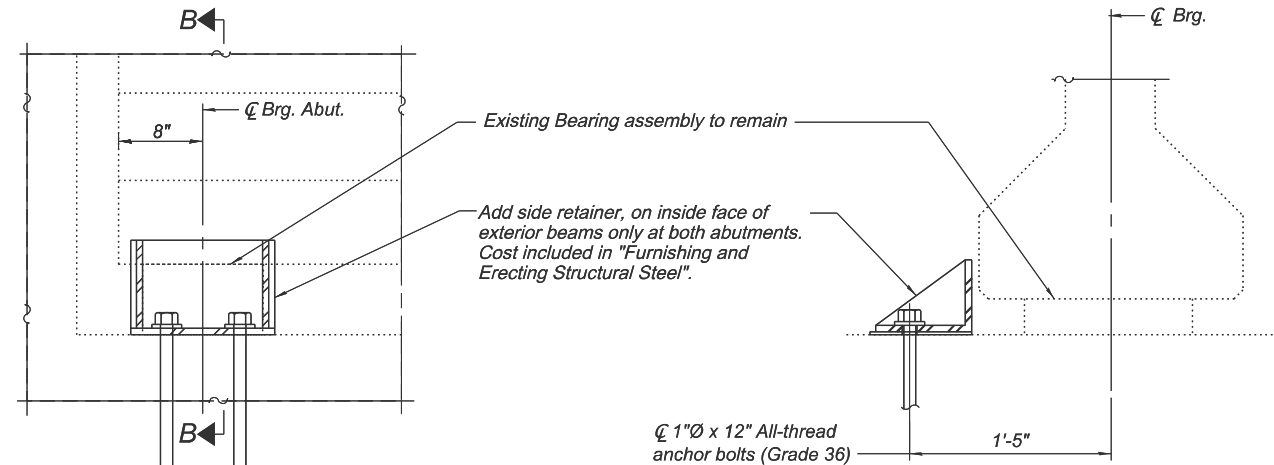
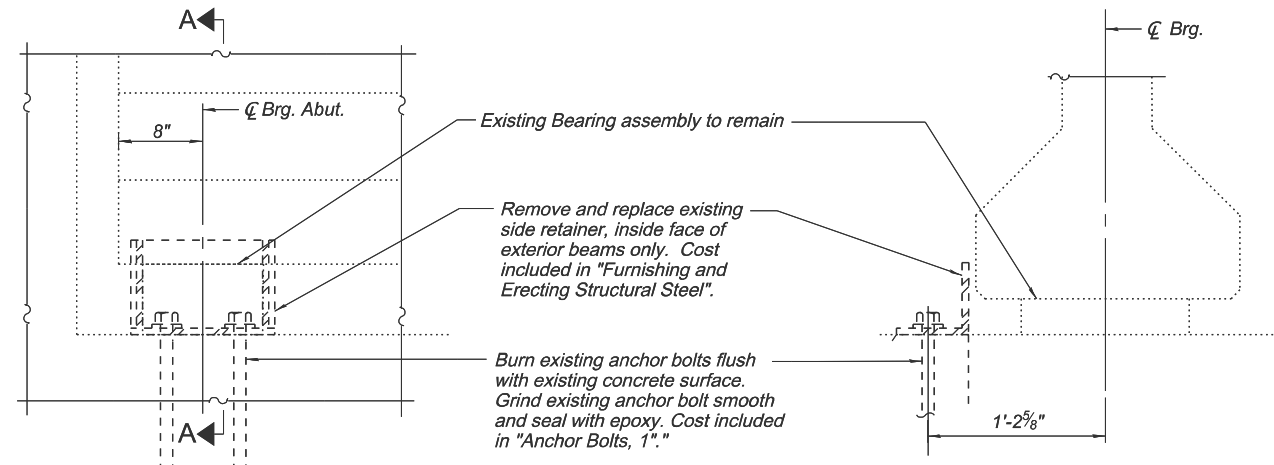
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| PLOT DATE = 10/10/2024 | DRAWN - MMY | REVISED - |
| | CHECKED - MJT | REVISED - |

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BEAM REPAIR DETAILS
STRUCTURE NO. 050-0175

SHEET 12 OF 15 SHEETS

| F.A.I. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|-------------|---------------|----------|--------------------|-----------|
| 39 | (50-5HB-2)BRR | LASALLE | 35 | 27 |
| | | | CONTRACT NO. 66P36 | |
| | | ILLINOIS | FED. AID PROJECT | |



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

BILL OF MATERIAL

| Item | Unit | Total |
|--|-------|-------|
| Furnishing and Erecting Structural Steel | Pound | 220 |
| Anchor Bolts, 1" | Each | 8 |

MODEL: Sheet
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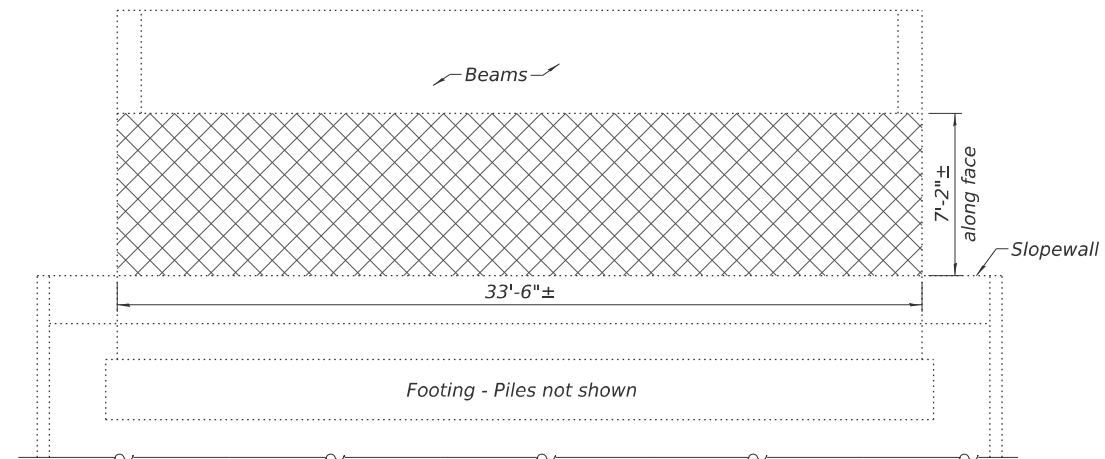


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| PLOT DATE = 10/10/2024 | DRAWN - MMY | REVISED - |
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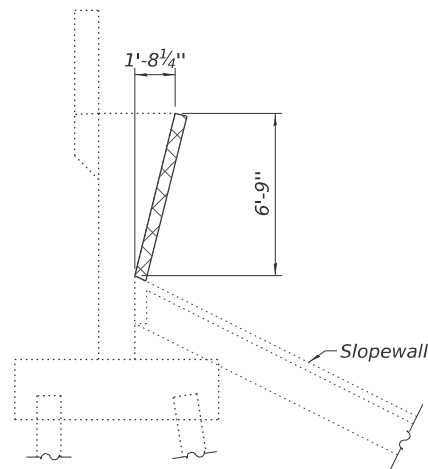
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SIDE RETAINER DETAILS
STRUCTURE NO. 050-0175

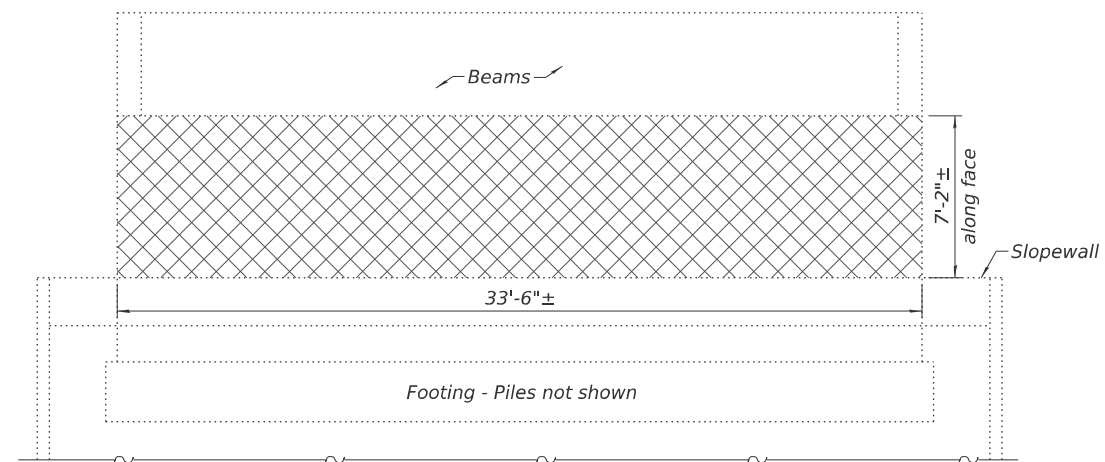
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| F.A.I. RTE. 39 | SECTION (50-5HB-2)BRR | COUNTY LASALLE | TOTAL SHEETS 35 | SHEET NO. 28 |
| | | | CONTRACT NO. 66P36 | |
| | | ILLINOIS | FED. AID PROJECT | |



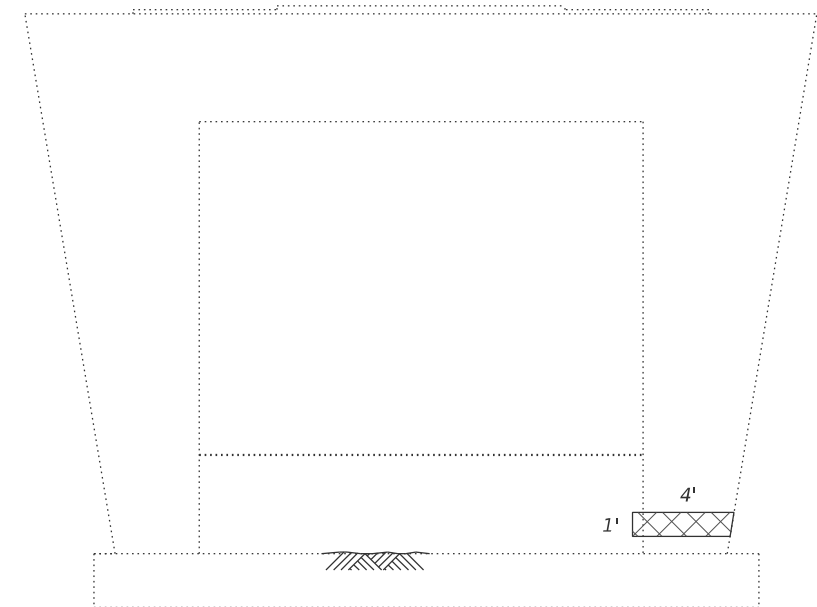
WEST ABUTMENT ELEVATION
(Looking at West face)



SECTION THRU ABUTMENT



EAST ABUTMENT ELEVATION
(Looking at East face)



PIER ELEVATION
(Looking at East face)

LEGEND



Structural Repair of Concrete (Depth Equal to or less than 5 Inches) - Shotcrete option (2" minimum). See Special Provisions.

NOTES

- Contractor shall wash the areas immediately surrounding the bearing seats at the abutments. Bearing seats shall be pressure washed. No washing of the deck surface or parapets will be required. The work shall be paid for as "Bridge Washing No. 1"
- Repair of the existing substructure shall include but may not be limited to the areas shown. The actual area to be repaired will be determined by the Engineer at the time of construction.

BILL OF MATERIAL

| Item | Unit | Total |
|--|---------|-------|
| Structural Repair of Concrete (Depth Equal to or less than 5 Inches) | Sq. Ft. | 484 |

MODEL: Sheet
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10/10/2024 10:21:05 AM



| | | | | | |
|--------------|--------------|------------|-----|-----------|--|
| USER NAME = | msutheard | DESIGNED - | PA | REVISED - | |
| | | CHECKED - | MJT | REVISED - | |
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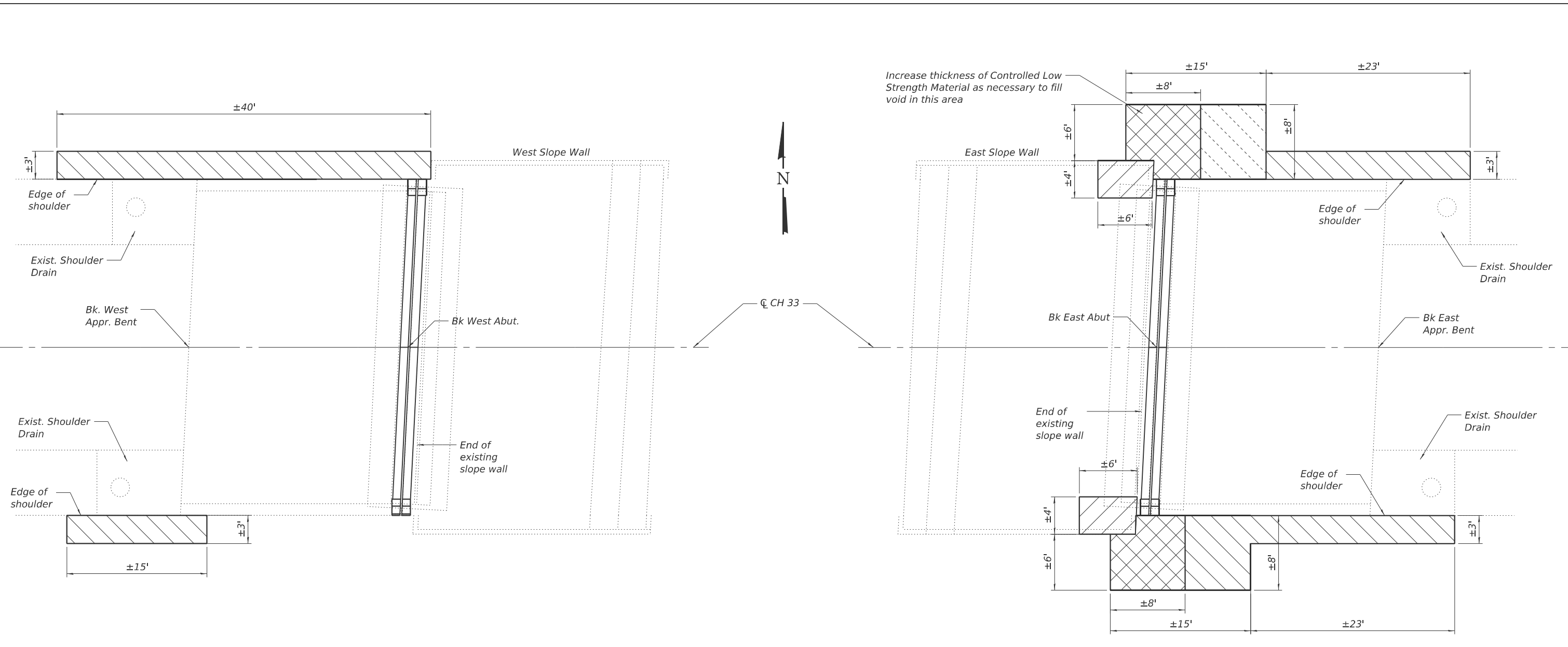
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**SUBSTRUCTURE REPAIR DETAILS
STRUCTURE NO. 050-0175**



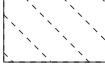

SHEET 14 OF 15 SHEETS

| | | | | |
|-------------|---------------|----------|--------------------|-----------|
| F.A.I. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 39 | (50-5HB-2)BRR | LASALLE | 35 | 29 |
| | | | CONTRACT NO. 66P36 | |
| | | ILLINOIS | FED. AID PROJECT | |

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SLOPE WALL PLAN

-  Approximate areas of Controlled Low Strength Material (12" thickness) to fill void to bottom of existing slope wall
-  Approximate areas of Riprap, Class A3 (24" thickness)
-  Approximate areas of Riprap, Class A3 (36" thickness)
-  Approximate areas of Controlled Low Strength Material (12" thickness) topped with Riprap, Class A3 (24" thickness)

BILL OF MATERIAL

| Item | Unit | Total |
|----------------------------------|---------|-------|
| Stone Riprap, Class A3 | Ton | 67 |
| Controlled Low Strength Material | Cu. Yd. | 7 |



| | | |
|------------------------|---------------|-----------|
| USER NAME = msutheard | DESIGNED - PA | REVISED - |
| PLOT SCALE = \$SCALE\$ | CHECKED - MJT | REVISED - |
| PLOT DATE = 10/10/2024 | DRAWN - MMY | REVISED - |
| | CHECKED - MJT | REVISED - |

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**EROSION REPAIR DETAILS
 STRUCTURE NO. 050-0175**

SHEET 15 OF 15 SHEETS

| | | | | |
|---------------------------|-----------------------|----------------|-----------------|--------------|
| F.A.I. RTE. 39 | SECTION (50-5HB-2)BRR | COUNTY LASALLE | TOTAL SHEETS 35 | SHEET NO. 30 |
| CONTRACT NO. 66P36 | | | | |
| ILLINOIS FED. AID PROJECT | | | | |

FOR INFORMATION ONLY

Sheet No. 1
of 12 Sheets

| ROUTE NO. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|-----------|---------|---------|--------------|-----------|
| FA-412 | * | LASALLE | 36 | 12 |

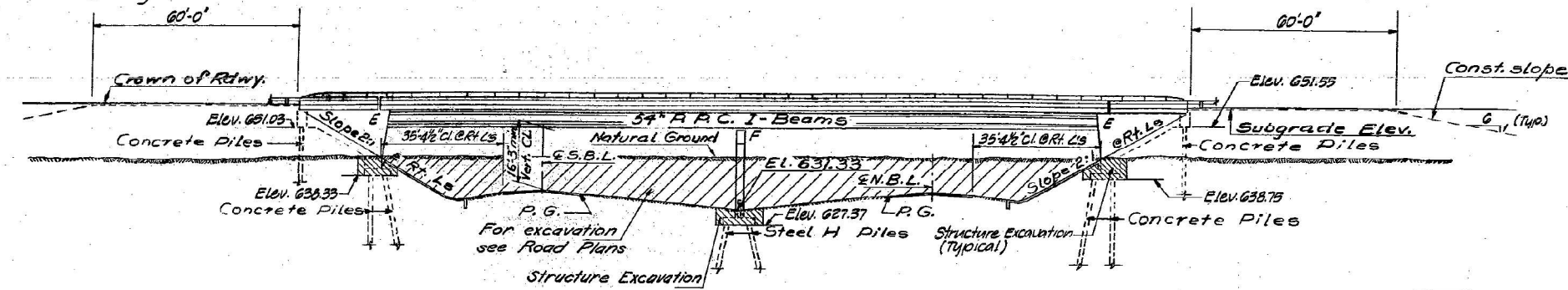
* 50-5HB-2

GENERAL NOTES

- All reinforcement bars shall be lapped 24 diameters unless otherwise shown.
- All structural steel shall be shop painted with two coats of basic lead silico chromate paint.
- Slope wall shall be reinforced with welded wire fabric 6" x 6" mesh, weighing 58# per 100 sq. ft.
- The Contractor shall drive one concrete test pile at each Abutment, and one steel test pile at the Pier; each in a permanent location as directed by the Engineer before ordering the remainder of the piles.
- The embankment configuration shown shall be the minimum embankment that must be constructed prior to construction of the abutments.
- The concrete rail section above the mandatory construction joint at the top of the slab shall be constructed of Class X Concrete, except the aggregates shall conform to the requirements of Handrail Concrete.
- Protective Coat shall not be applied to surfaces to which Waterproofing Membrane System is applied.
- See the Special Provisions for Boring Logs.

BM #13-A-1: P.K. nail in fence post, S. of C.H.#33
& E. of P.V. Ent.; Sta. 1185+80, 370' RT; Elev. 646.24.

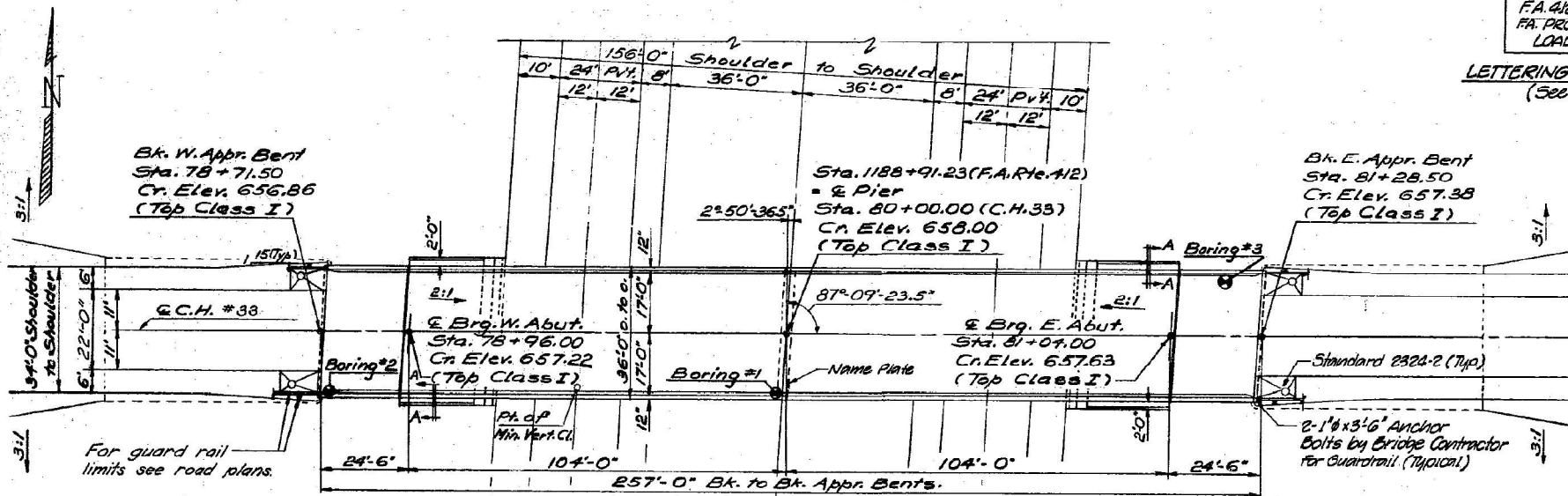
No existing structure.



ELEVATION

STATION 1188+91.23
BUILT 197 BY
STATE OF ILLINOIS
FA. 412 SEC. 50-5HB-2
FA. PROJ. EBRE-4 (11)
LOADING H520

LETTERING FOR NAME PLATE
(See Std. 2113)

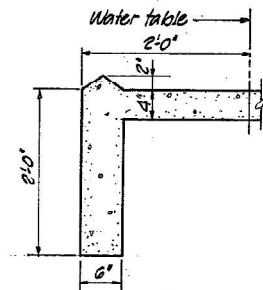


PLAN

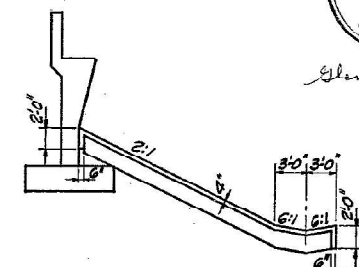
APPROVED
FOR STRUCTURAL ADEQUACY ONLY
Glenn S. Harris
REGISTERED STRUCTURAL ENGINEER
STATE OF ILLINOIS



Glenn S. Harris

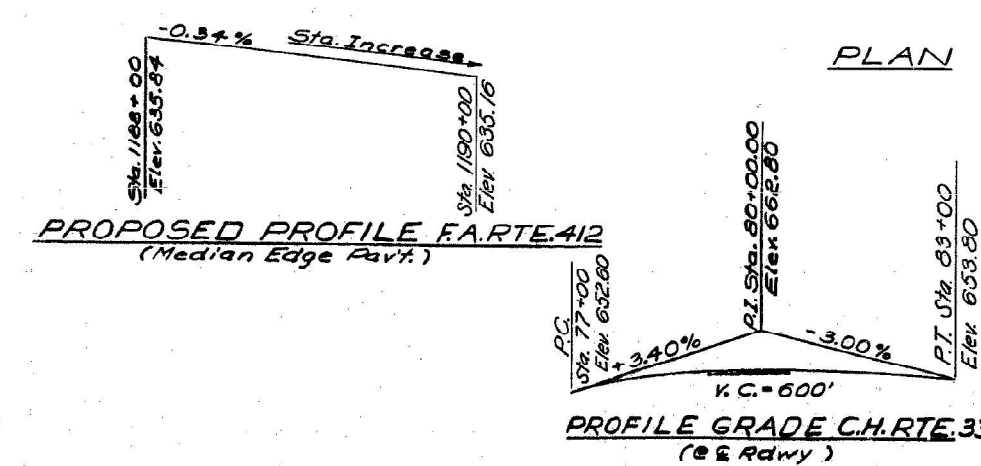


SECTION A-A



SECTION THRU SLOPEWALL

| TOTAL BILL OF MATERIAL | | | | |
|---------------------------------------|----------|-----------|---------|--------|
| ITEM | UNIT | SUPERSTR. | SUBSTR. | TOTAL |
| Sand Backfill | Cu. Yds. | — | 240 | 240 |
| Structure Excavation | Cu. Yds. | — | 200 | 200 |
| Class X Concrete | Cu. Yds. | 335.8 | 226.5 | 562.3 |
| Precast Prestressed Conc. I Bn. (54") | Lin. Ft. | 1,254 | — | 1,254 |
| Structural Steel | Lbs. | 3,010 | 180 | 3,190 |
| Aluminum Railing | Lin. Ft. | 508 | — | 508 |
| Reinforcement Bars | Lbs. | 67,680 | 27,820 | 95,500 |
| Steel Piles HP 10 x 42 | Lin. Ft. | — | 289 | 289 |
| Concrete Piles | Lin. Ft. | — | 1,159 | 1,159 |
| Test Piles, Steel HP 10 x 42 | Eq. | — | 1 | 1 |
| Test Piles, Concrete | Eq. | — | 2 | 2 |
| Name Plates | Eq. | — | 1 | 1 |
| Slope Wall 4" | Sq. Yds. | — | 302 | 302 |
| Preformed Joint Sealer 4" | Lin. Ft. | 72 | — | 72 |
| Bit. Conc. Surf. Crsg., Mix D, C.I. I | Tons | 80 | — | 80 |
| Protective Coat | Sq. Yds. | 190 | — | 190 |
| Waterproofing Membrane System | Sq. Yds. | 930 | — | 930 |



DESIGN STRESSES

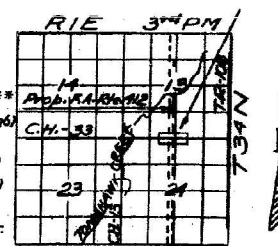
PRECAST PRESTRES. UNITS
 $f_c = 6,000$ psi
 $f_{ci} = 5,000$ psi
 $f_s = 270,000$ psi (2" Strands)
 $f_{ai} = 189,000$ psi (2" Strands)

FIELD UNITS**
 $f_c = 1,200$ psi (Deck Slab)
 $f_c = 1,400$ psi (*)
 $f_b = 20,000$ psi (Reinf.)
 $f_b = 24,000$ psi (Reinf.)
 $n = 10$

Loading H5 20-44

Design Specifications 1973 & Interim (1974 (as applicable) Allow 25 #/ft for Future WS

** Load Factor Design-Substructure



LOCATION SKETCH

GENERAL PLAN AND ELEVATION

| | | |
|-----------|---------|----|
| REVISIONS | DATE | BY |
| 1 | 6/21/79 | JS |
| 2 | 6/21/79 | JS |
| 3 | 6/21/79 | JS |
| 4 | 6/21/79 | JS |
| 5 | 6/21/79 | JS |
| 6 | 6/21/79 | JS |
| 7 | 6/21/79 | JS |
| 8 | 6/21/79 | JS |
| 9 | 6/21/79 | JS |
| 10 | 6/21/79 | JS |

C.H. 33 OVER FA. 412
FA. 412 SEC. 50-5HB-2 PROBLEM #42-4(11)
STA. 1185+91.23 (FA. 412) LASALLE CO.

HOMER L. CHASTAIN & ASSOCIATES
CONSULTING ENGINEERS
DECATUR, ILLINOIS

| | |
|-------------|--------|
| PROJECT NO. | 2601-5 |
| SHEET NO. | 12 |

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|-----------|-------------|
| USER NAME | = msulheard |
| DESIGNED | - JS |
| DRAWN | - MS |
| CHECKED | - JS |
| PLOT DATE | = 10/8/2024 |
| DATE | = 10/08/24 |
| REVISED | - |
| REVISED | - |
| REVISED | - |
| REVISED | - |

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING STRUCTURE PLANS - FOR INFORMATION ONLY
STRUCTURE NO. 050-0175

SCALE: SHEET 1 OF 5 SHEETS STA. TO STA.

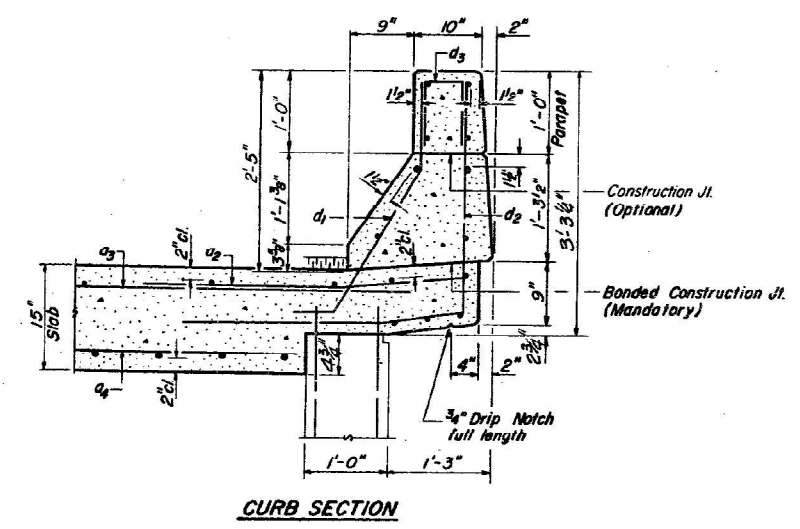
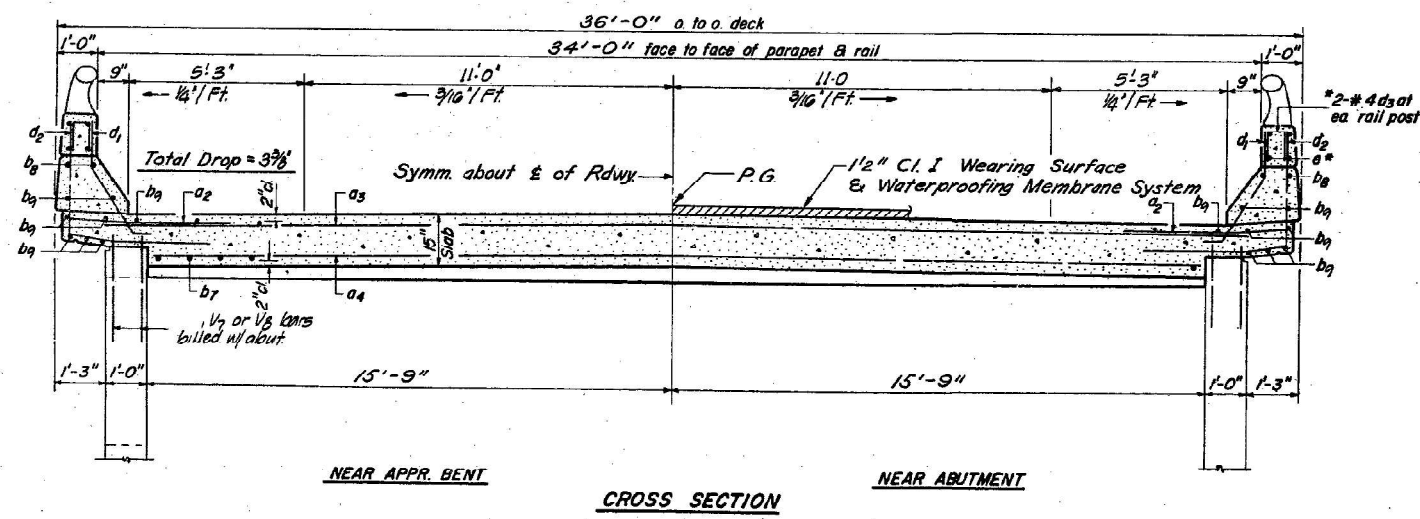
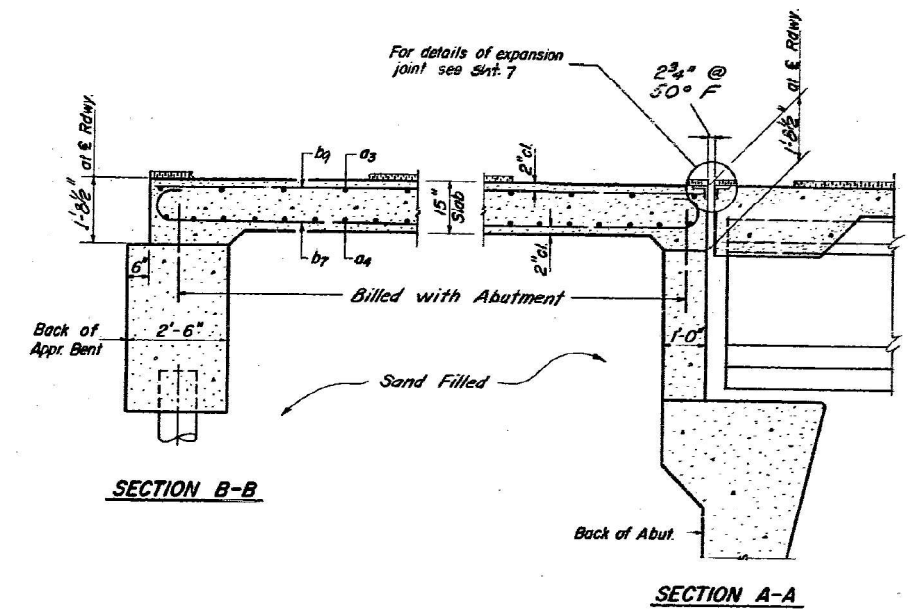
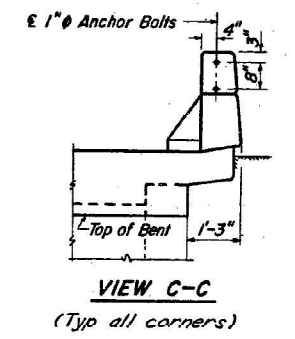
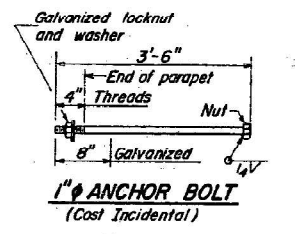
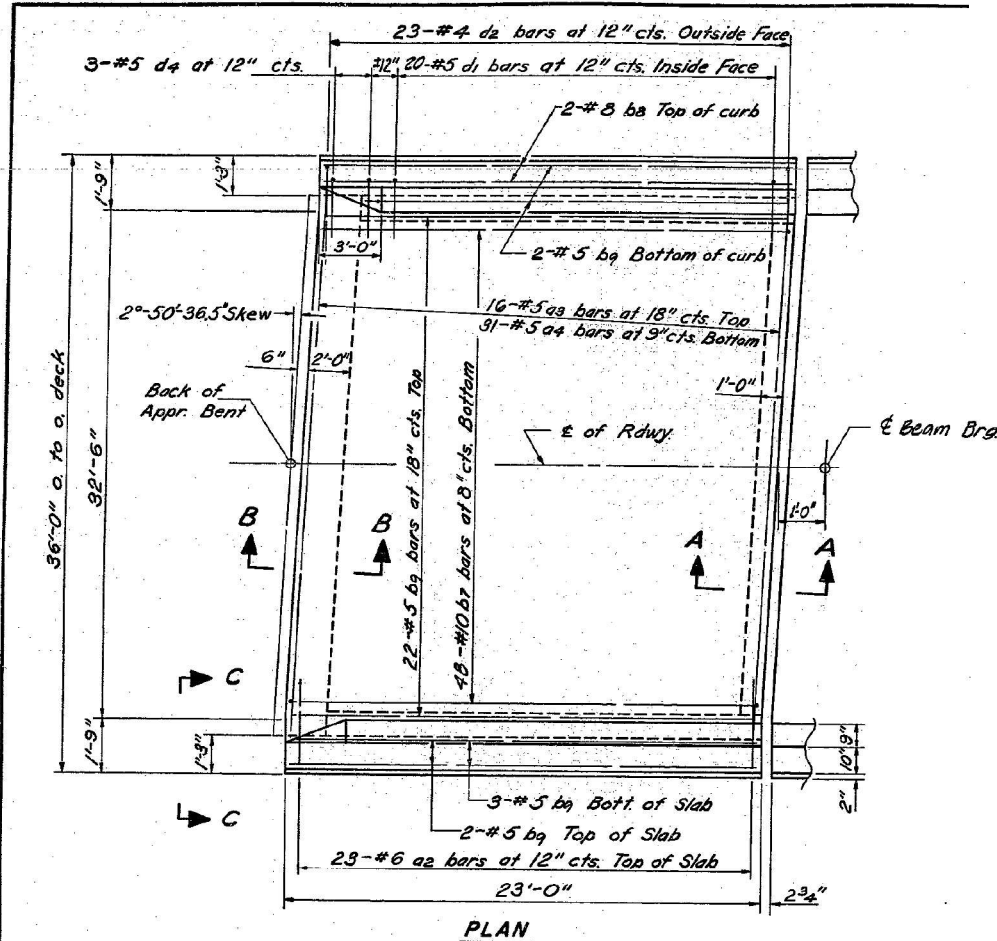
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|---------------------------|---------------|---------|--------------|-----------|
| FAI RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 39 | (50-5HB-2)BRR | LASALLE | 35 | 31 |
| CONTRACT NO. 66P36 | | | | |
| ILLINOIS FED. AID PROJECT | | | | |

FOR INFORMATION ONLY

Sheet No. 4 of 12 Sheets

| ROUTE NO. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------|----------|---------|--------------|-----------|
| EA-412 | * | LASALLE | 36 | 15 |
| FED. ROAD DIST. NO. | ILLINOIS | PROJECT | | |

* 50-5HB-2



**TWO APPR. SLABS
BILL OF MATERIAL**

| Bar | No. | Size | Length | Shape | |
|--------------------|-----|------|--------|--------|--------|
| a2 | 92 | #6 | 4'-0" | — | |
| a3 | 32 | #5 | 33'-9" | — | |
| a4 | 62 | #5 | 31'-3" | — | |
| b7 | 96 | #10 | 25'-6" | C | |
| b8 | 8 | #8 | 22'-9" | — | |
| b9 | 72 | #5 | 22'-9" | — | |
| d1 | 80 | #5 | 3'-7" | J | |
| d2 | 92 | #4 | 6'-0" | — | |
| d4 | 12 | #5 | 4'-2" | J | |
| Reinforcement Bars | | | | Lbs | 17,150 |
| Class X Concrete | | | | Cu Yds | 81.5 |

*Parapet Reinforcement and Class X Concrete are billed on sheet # 6.

SUPERSTRUCTURE - SPANS 1&4

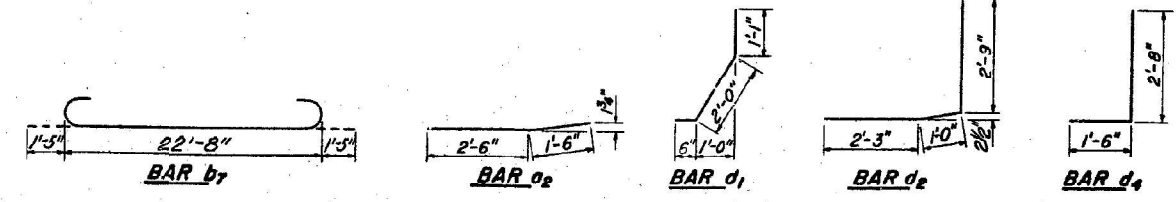
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| REVISIONS | NO. | DATE | BY | REVISION |
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CH. 33 OVER FA 412
FA 412 SEC. 50-5HB-2 PROJ
STA. 1188+31.23 (FA 412) LA-SALLE CO.

HOMER L. CHASTAIN & ASSOCIATES
CONSULTING ENGINEERS
DECATUR, ILLINOIS

PROJECT NO. 2601-5

POSS. NUMBER



MODEL: FIC-02 Sheet
FILE NAME: I:\2022\22069.05\DOT D3 - PTB_205-023 - W05 - LaSalle County 66P36\CADD\DrawCAD\Sheets\366P36-shr-FIC-02.dgn

KT
KUNN & TRELLO
CONSULTING ENGINEERS
A Limited Liability Company
100 N. 7th Street, 3rd Floor
Springfield, IL 62702
Phone: 217-682-0244

| | | | | | |
|-----------|--------------|-----------|------|---------|---|
| USER NAME | = msulheard | DESIGNED | - JS | REVISED | - |
| DRAWN | - MS | REVISIONS | - | | |
| CHECKED | - JS | REVISIONS | - | | |
| DATE | - 10/08/24 | REVISIONS | - | | |
| PLOT DATE | = 10/08/2024 | | | | |

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**EXISTING STRUCTURE PLANS - FOR INFORMATION ONLY
STRUCTURE NO. 050-0175**

SCALE: SHEET 2 OF 5 SHEETS STA. TO STA.

| | | | | |
|----------|---------------|----------|------------------|--------------------|
| FAI RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 39 | (50-5HB-2)BRR | LASALLE | 35 | 32 |
| | | | | CONTRACT NO. 66P36 |
| | | ILLINOIS | FED. AID PROJECT | |

FOR INFORMATION ONLY

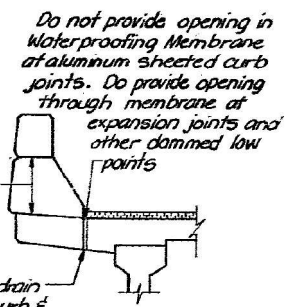
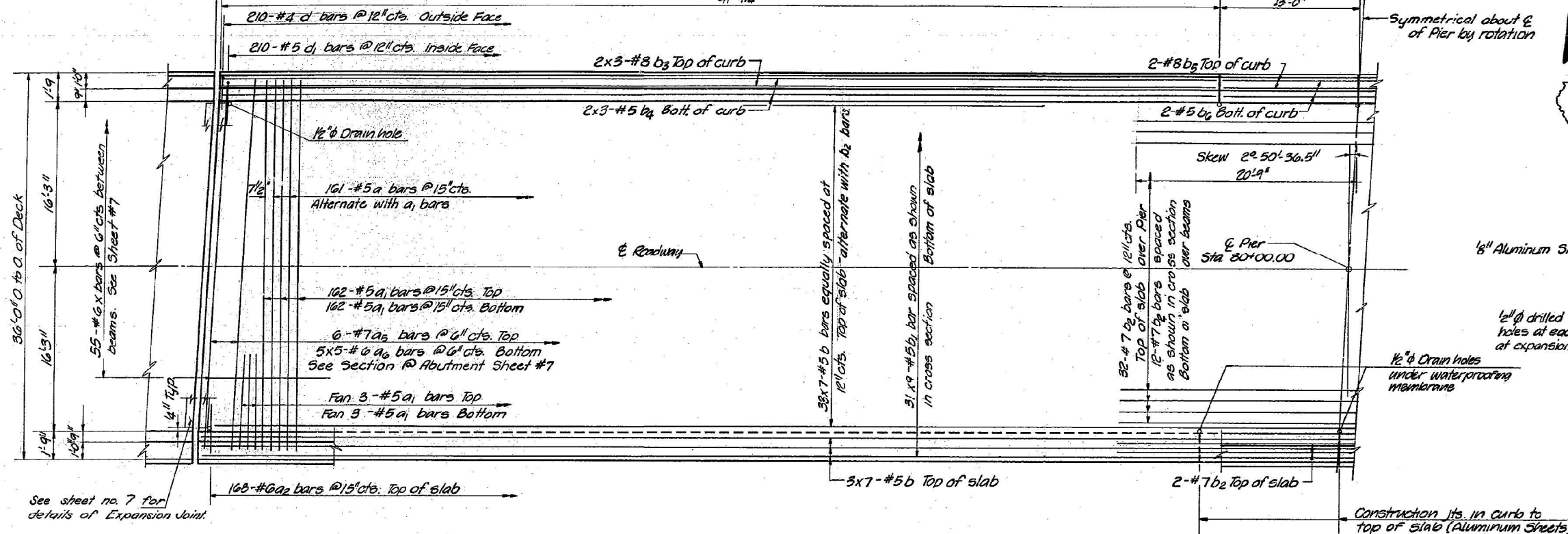
Note Bars indicated thus 20 x 3 - #5 etc. indicates 20 lines of bars with 3 lengths per line.
Min. bar laps = 24 dia.

209'-6 1/2" O to O of Deck

Sheet No. 5 of 12 sheets

| ROUTE NO. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------|---------|---------|--------------|-----------|
| FA-412 | * | LASALLE | 36 | 16 |
| FED. ROAD DIST. NO. | ALIGNED | PROJECT | | |
| | | | | |

* 50-51B-2

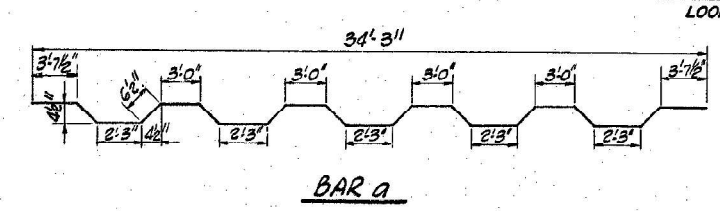
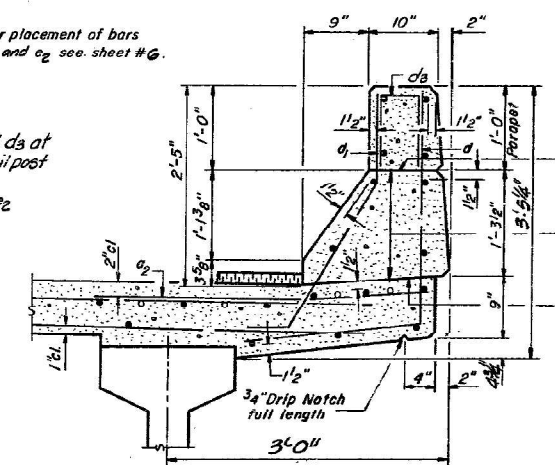
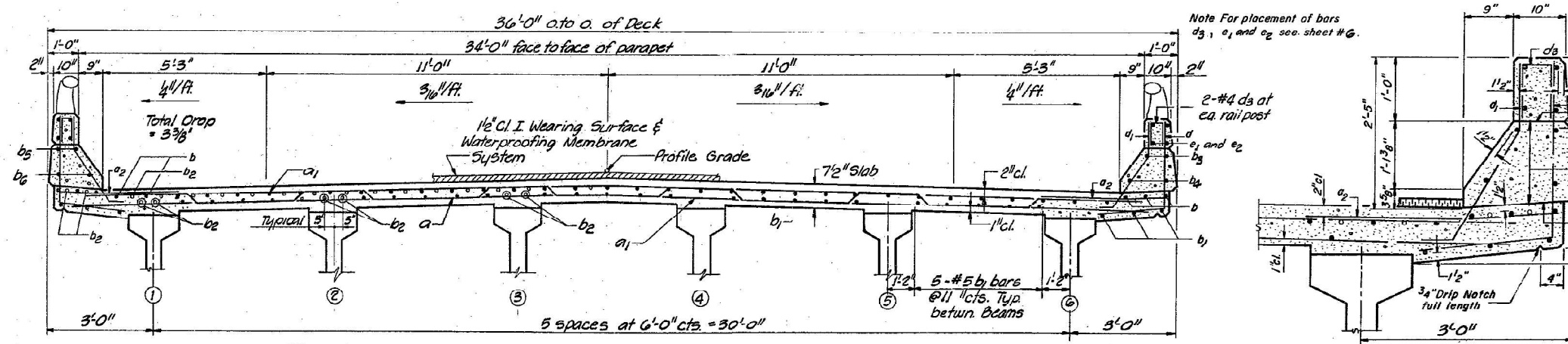


DRAIN HOLES

BILL OF MATERIAL

| Bar | No. | Size | Length | Shape |
|----------------------------|-----|---------|---------|-------|
| a | 161 | #5 | 35'-11" | |
| a1 | 336 | #5 | 34'-0" | |
| a2 | 336 | #6 | 4'-0" | |
| a3 | 12 | #7 | 34'-0" | |
| a6 | 50 | #6 | 5'-2" | |
| b | 273 | #5 | 31'-0" | |
| b1 | 279 | #5 | 24'-6" | |
| b2 | 48 | #7 | 41'-6" | |
| b3 | 24 | #8 | 32'-6" | |
| b4 | 24 | #5 | 31'-6" | |
| b5 | 8 | #8 | 12'-9" | |
| b6 | 8 | #5 | 12'-9" | |
| d | 420 | #4 | 4'-7" | J |
| d1 | 420 | #5 | 3'-7" | J |
| m | 20 | #4 | 5'-4" | |
| m1 | 10 | #6 | 4'-0" | |
| s | 20 | #4 | 18'-8" | J |
| x | 110 | #6 | 8'-7" | |
| Reinforcement Bars | | Lbs. | 49,050 | |
| Class X Concrete | | Cu Yds. | 232.9 | |
| Preformed Jt. Slaters (4") | | Ln. Ft. | 72 | |
| Structural Steel | | Lbs. | 3190 | |

Parapet Reinforcement and Class X Concrete are billed on sheet #6. ** For placement and details of bars m, m1, and s see sheet #7. ** b1, b2, & b3 shall be Grade 60 ** Includes 180 lbs. in Substructure



REVISIONS

| NO. | DATE | DESCRIPTION |
|-----|------|-------------|
| 1 | | |
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DESIGNED BY DATE
JUN 6 2024

CHECKED BY DATE
ESH 7-22

PROJECT NO.
26015

SHEET NO.
5

C.H. 33 OVER FA 412
FA 412 SEC. 50-5 HB-2 PROJ.
STA 1188+91.23 (FA-412) LASALLE CO.

HOMER L. CHASTAIN & ASSOCIATES
CONSULTING ENGINEERS
DECATUR, ILLINOIS

MODEL: FIC-03 Sheet
FILE NAME: I:\2022\22069.05 DDT D3 - PTB 205-023 - W05 - LaSalle County 66P36\CADD\Rail\CADsheets\366P36-sh1-FIC-03.dgn

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CONSULTING ENGINEERS
A Limited Liability Company
100 N. 7th Street, 3rd Floor
Springfield, IL 62702
Phone: 217-681-0044
Professional Design Firm No. 284-006536

| | | |
|-----------------------|-----------------|-----------|
| USER NAME = msulheard | DESIGNED - JS | REVISED - |
| | DRAWN - MS | REVISED - |
| | CHECKED - JS | REVISED - |
| PLOT DATE = 10/8/2024 | DATE = 10/08/24 | REVISED - |

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING STRUCTURE PLANS - FOR INFORMATION ONLY
STRUCTURE NO. 050-0175

SCALE: SHEET 3 OF 5 SHEETS STA. TO STA.

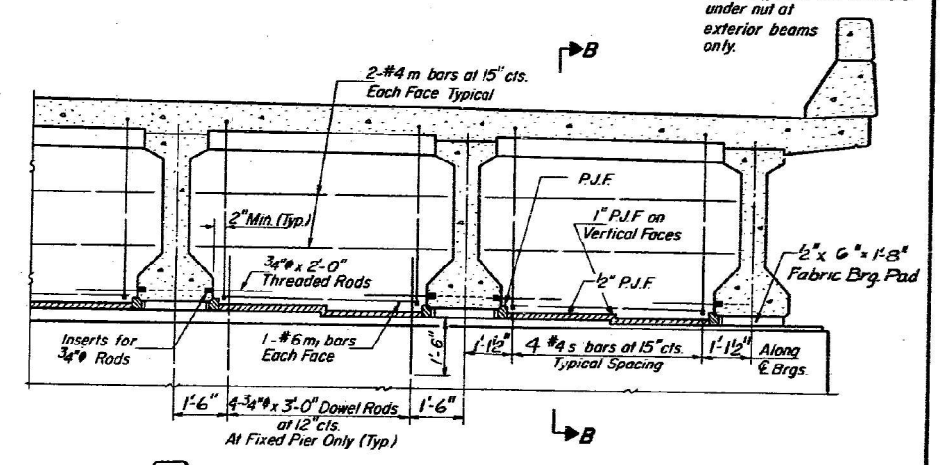
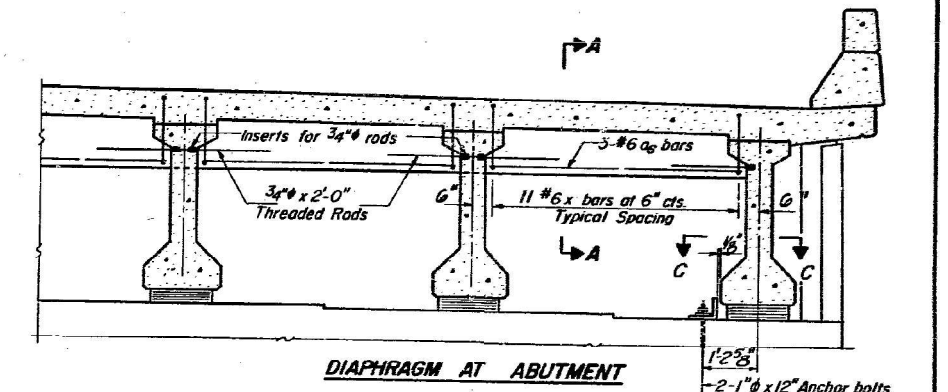
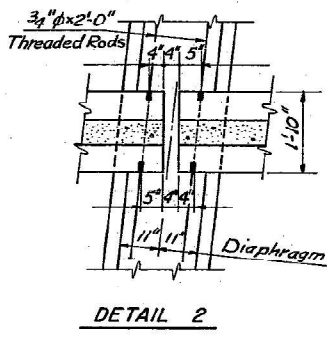
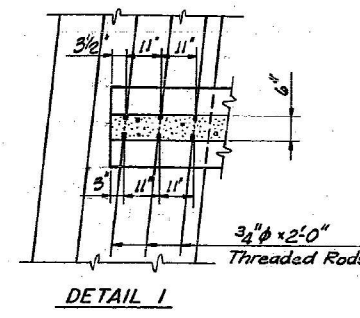
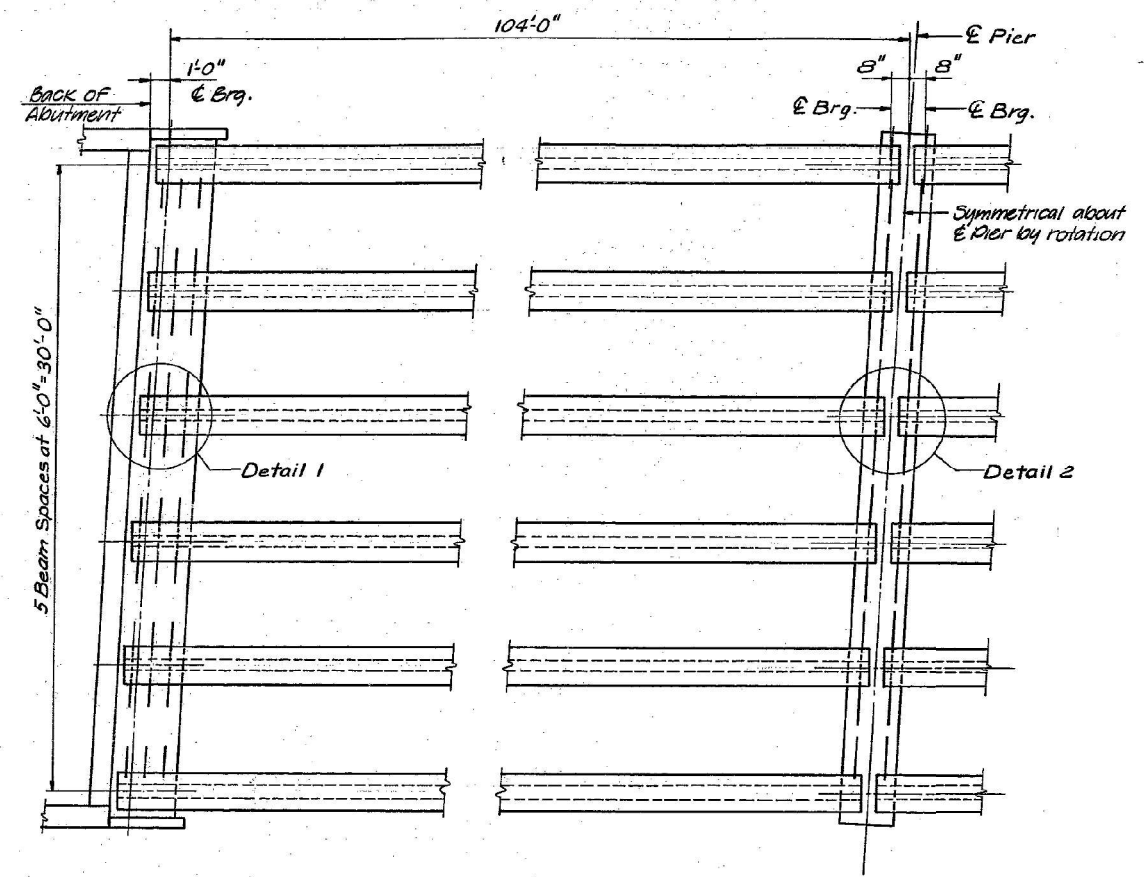
| F.A.I. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|-------------|---------------|---------|---------------------------|-----------|
| 39 | (50-5HB-2)BRR | LASALLE | 35 | 33 |
| | | | CONTRACT NO. 66P36 | |
| | | | ILLINOIS FED. AID PROJECT | |

FOR INFORMATION ONLY

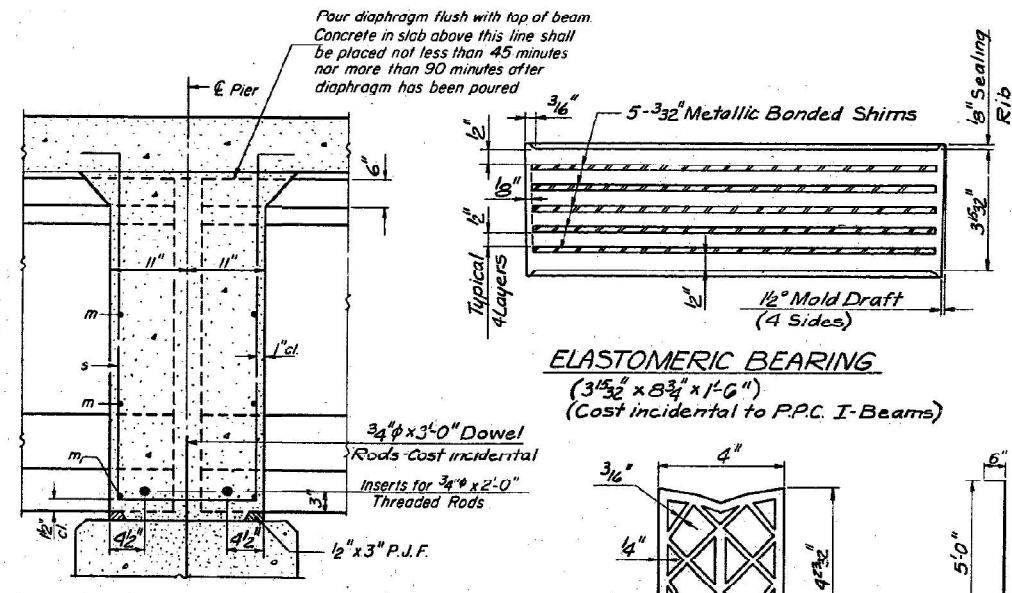
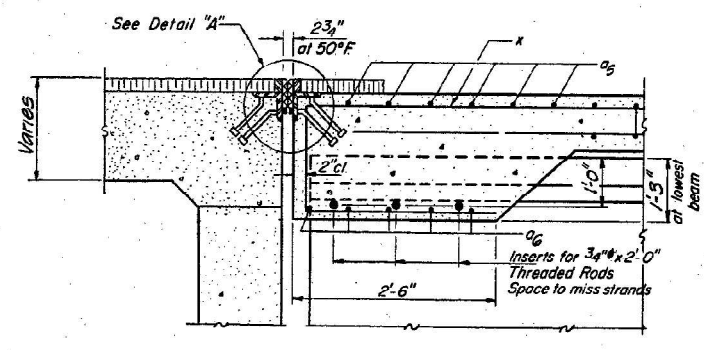
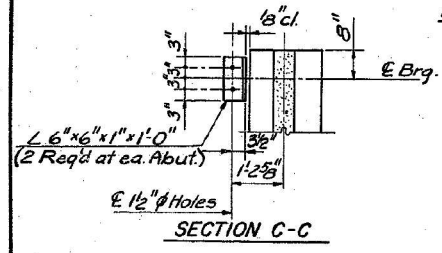
Sheet No. 7
of 12 Sheets

| ROUTE NO. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------|---------|------------------|--------------|-----------|
| EA-412 | * | LASALLE | 36 | 13 |
| FED. ROAD DIST. NO. | | ILLINOIS PROJECT | | |

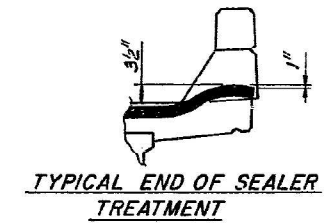
* 50-5HB-2



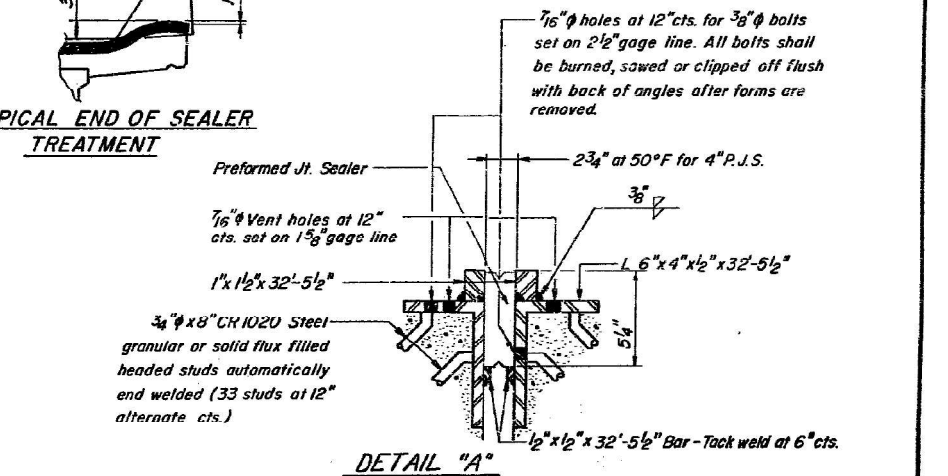
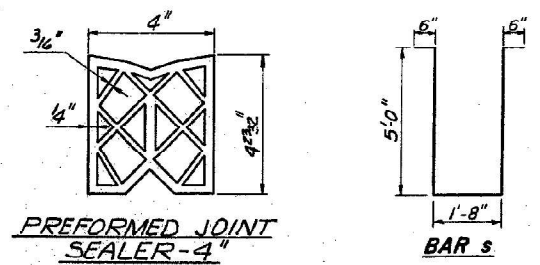
HALF FRAMING PLAN



Pour diaphragm flush with top of beam. Concrete in slab above this line shall be placed not less than 45 minutes nor more than 90 minutes after diaphragm has been poured.



ELASTOMERIC BEARING (3/32" x 8 3/4" x 1'-6") (Cost incidental to P.P.C. I-Beams)



| REVISIONS | | | DESIGNED BY | DATE |
|-----------|--|--|-------------|------|
| 1 | | | ML | 6-75 |
| 2 | | | ML | 7-75 |
| 3 | | | | |
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| C.H. 33 - OVER FA 412 FA-412 SEC. 50-5HB-2 PROJ. STA. 1188+91.25 (FA 412) LASALLE CO. | | PROJECT NO. 2601-5 |
| HOMER L. CHASTAIN & ASSOCIATES CONSULTING ENGINEERS DECATUR, ILLINOIS | | SHEET NO. |

NOTE: Reinforcement bars shown on this sheet are included in Bill of Material on Sheet #5.

REV. 3-18-76

MODEL: FIC-04 Sheet
FILE NAME: I:\2022\22069.05\DOT D3 - PTB 205-023 - W05 - LaSalle County 66P36\CADD\DrawCAD\Sheets\366P36-shr-FIC-04.dgn

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 KUHN & TRELLO
 CONSULTING ENGINEERS
 A Limited Liability Company
 100 N. 7th Street, 3rd Floor
 Springfield, IL 62702
 Phone: 217-698-0844

| | | | | | |
|-----------|-------------|----------|------------|---------|---|
| USER NAME | = msulheard | DESIGNED | - JS | REVISED | - |
| | | DRAWN | - MS | REVISED | - |
| | | CHECKED | - JS | REVISED | - |
| | | DATE | - 10/08/24 | REVISED | - |
| PLOT DATE | 10/18/2024 | | | | |

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

EXISTING STRUCTURE PLANS - FOR INFORMATION ONLY
 STRUCTURE NO. 050-0175

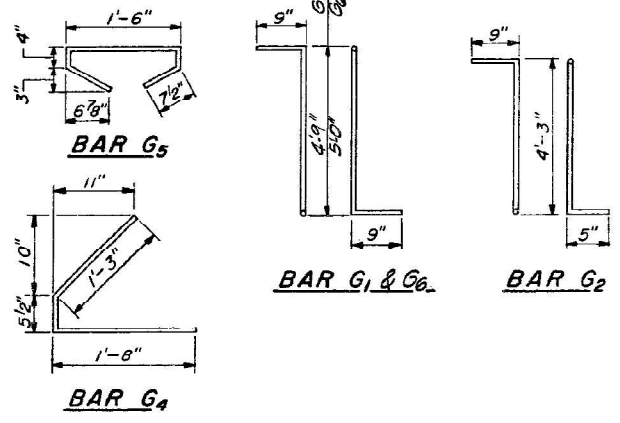
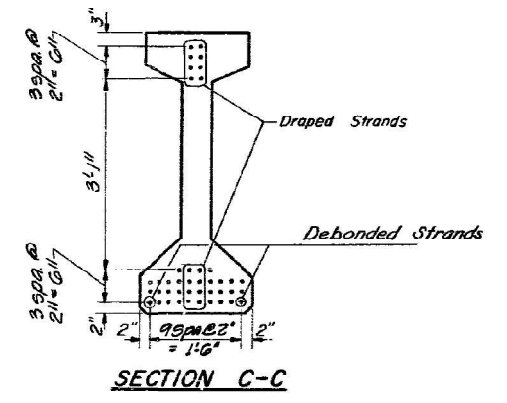
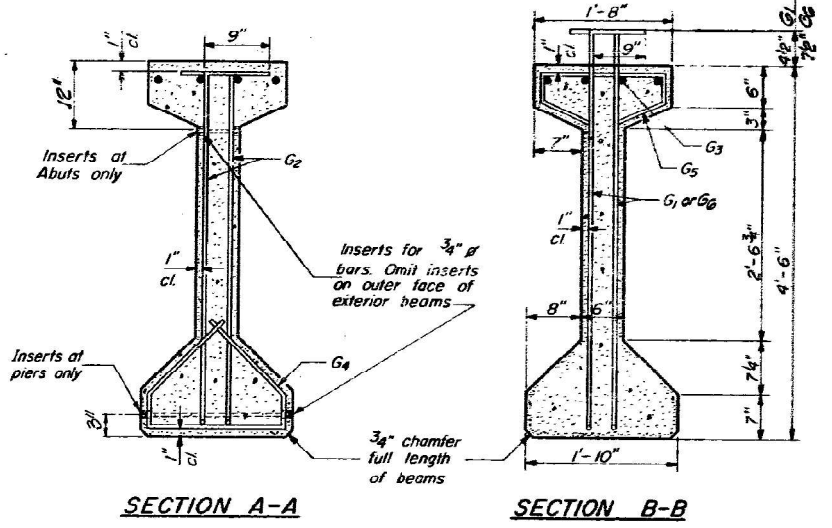
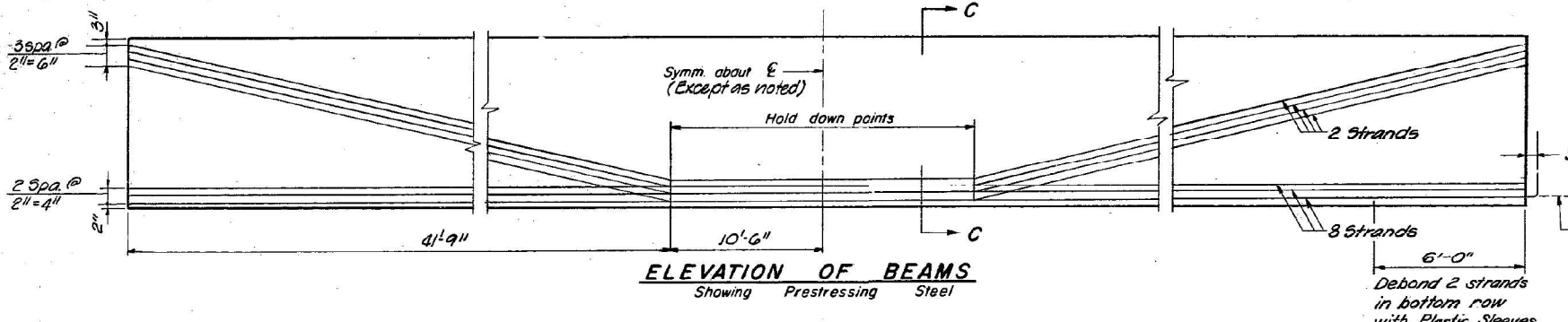
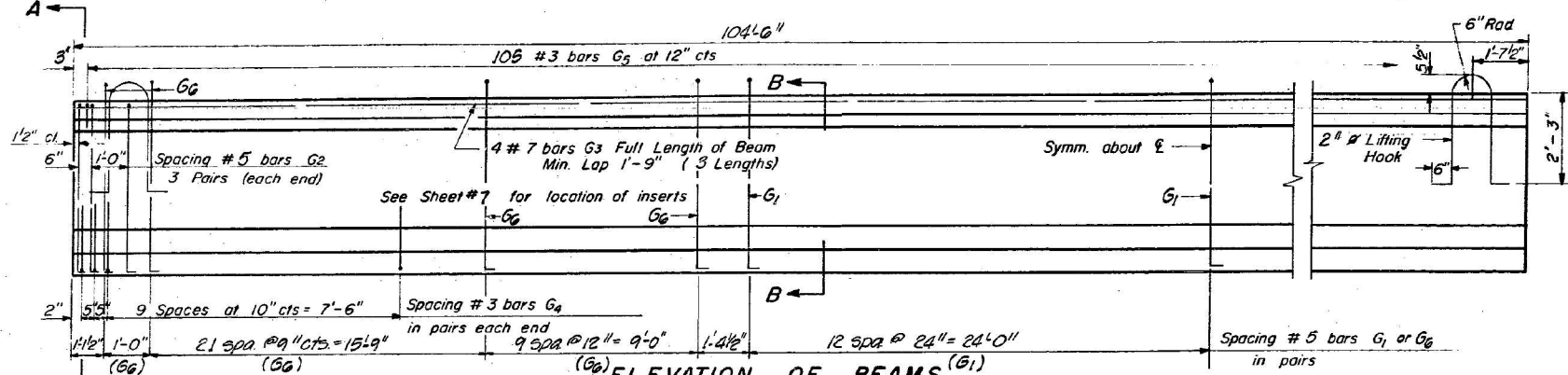
SCALE: SHEET 4 OF 5 SHEETS STA. TO STA.

| FAI RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------------|---------------|---------|--------------------|-----------|
| 39 | (50-5HB-2)BRR | LASALLE | 35 | 34 |
| ILLINOIS FED. AID PROJECT | | | CONTRACT NO. 66P36 | |

FOR INFORMATION ONLY

| | | | | |
|---------------------|------------------|---------|--------------|-----------|
| * 50-5HB-2 | | | | |
| ROUTE NO. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| EA-412 | * | LASALLE | 36 | 19 |
| FED. ROAD DIST. NO. | ILLINOIS PROJECT | | | |

Sheet No. 8
of 12 Sheets



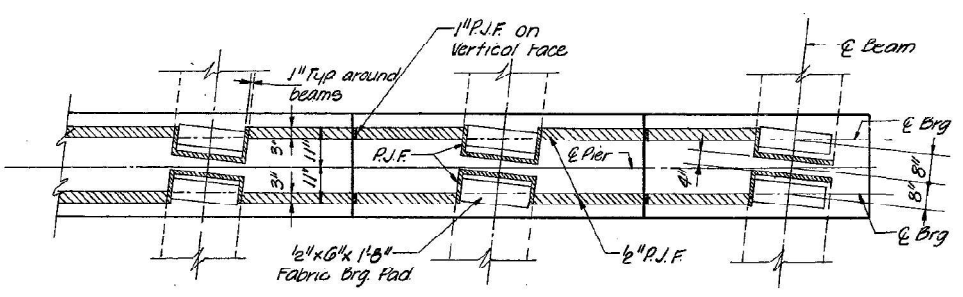
***BAR LIST**

| Bar | No | Size | Length | Shape |
|-----|-----|------|-----------|-------|
| G1 | 50 | #5 | 6'-3" | 7L |
| G2 | 12 | #5 | 5'-5" | 7L |
| G3 | 12 | #7 | 35'-10" | |
| G4 | 4B | #3 | 3'-4 1/2" | L |
| G5 | 10B | #3 | 3'-5" | C |
| G6 | 12B | #3 | 6'-6" | 7L |

* For one beam only

BILL OF MATERIAL

| Item | Unit | Total |
|---|---------|-------|
| Furnishing & Erecting Precast Prestressed Concrete I-Beams, 54" | Lin Ft. | 1254 |



NOTES

All inserts and threaded rods for inserts, reinforcing and Prestressing Steel, and other items which are cast into the Precast Concrete I-Beams shall be included in the contract unit price per lineal foot of "Furnishing And Erecting Precast Prestressed Concrete I-Beams, 54 in."

Prestressing Steel shall have a nominal diameter of 1/2"

Inserts for 3/4" threaded rods are to be two strut, coil type for interior I-Beams and single coil, flared loop type for exterior I-Beams.

Steel for lifting hooks shall be non-deformed bars fy = 40,000 psi.

BEAM DETAILS

| | | |
|-----------|--------|----|
| REVISIONS | DATE | BY |
| 1 | JUN 67 | GS |
| 2 | JUN 75 | GS |

C.H. 55 OVER FA 412
FA 412 SEC. 50-5 HB-2 PROJ.
STA 183+41.23 (FA 412) LASALLE CO.

HOMER L. CHASTAIN & ASSOCIATES
CONSULTING ENGINEERS
DECATUR, ILLINOIS

PROJECT NO. 26015
SHEET NO.

PI-4-54 9-15-72

MODEL: FIC-05 Sheet FILE NAME: I:\2022\22069.05\DOT D3 - PTB, 205-023 - W05 - LaSalle County 66P36\CADD\Drawings\66P36-shr-FIC-05.dgn



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|-----------------------|-----------------|-----------|
| USER NAME = msulheard | DESIGNED - JS | REVISED - |
| | DRAWN - MS | REVISED - |
| | CHECKED - JS | REVISED - |
| PLOT DATE = 10/8/2024 | DATE = 10/08/24 | REVISED - |

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING STRUCTURE PLANS - FOR INFORMATION ONLY
STRUCTURE NO. 050-0175

| | | | | |
|--------------------|---------------|---------|---------------------------|-----------|
| F.A.I. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 39 | (50-5HB-2)BRR | LASALLE | 35 | 35 |
| CONTRACT NO. 66P36 | | | ILLINOIS FED. AID PROJECT | |