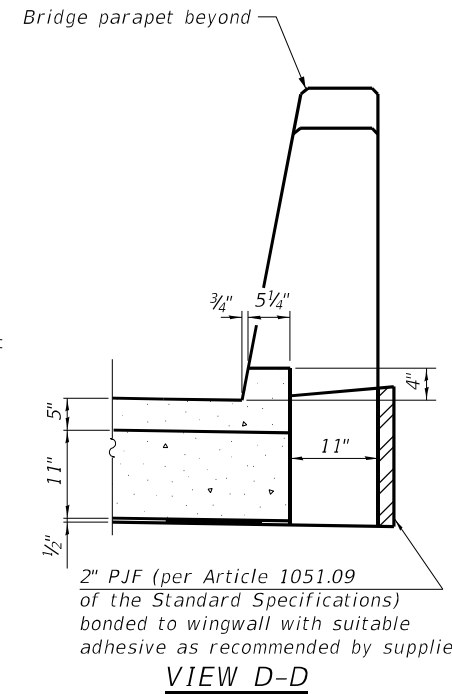


**INSIDE ELEVATION OF CURB**



**VIEW D-D**

**Notes:**

The joint opening shall be adjusted for temperature per Article 520.04 of the Standard Specifications. However, since this detail is for jointless structures, the length of bridge used to calculate the adjustment shall be equal to half the total bridge length plus the length of the bridge approach slab.

After precast bridge approach slabs have been erected, holes shall be drilled into abutment and anchor dowels placed. Dowel holes shall be filled with non-shrink grout to top of precast slab and cured according to Article 1020.13(a)(3) or 1020.13(a)(5) of the Standard Specifications for a minimum of 24 hours before casting the shear keys and wearing surface.

Any concrete poured monolithically with the wearing surface, such as curbs, shall not be paid for separately, but will be included in the cost of Concrete Wearing Surface, 5".

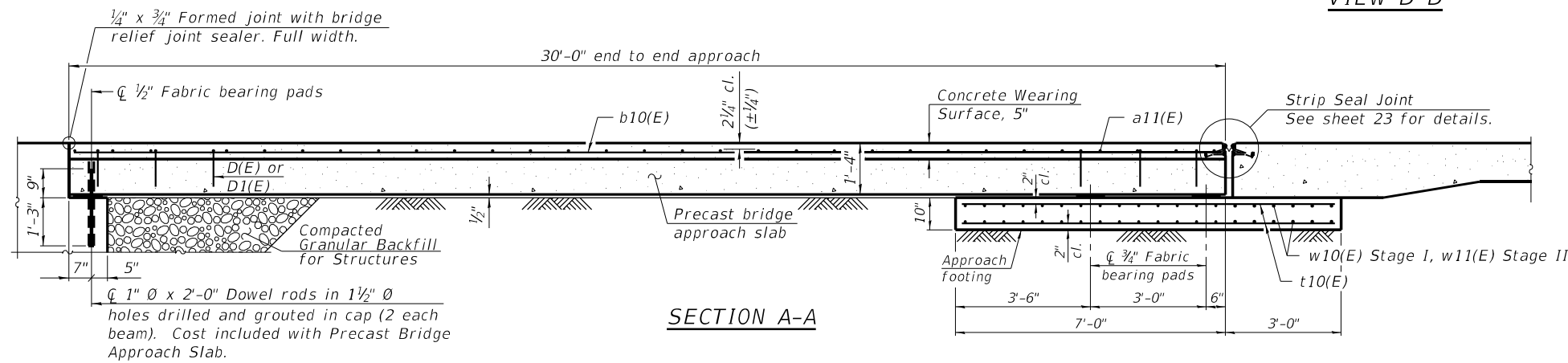
The strip seal shall extend 6" beyond the edge of the approach slab on each end. The 6" extension shall not be measured for payment.

Approach footing concrete shall be paid for as Concrete Structures.

The approach footing maximum applied service bearing pressure ( $Q_{max}$ ) = 2.0 ksf.

Cost of excavation for approach footing included with Concrete Structures.

For Granular Backfill for Structures and drainage treatment details, see sheet 3.

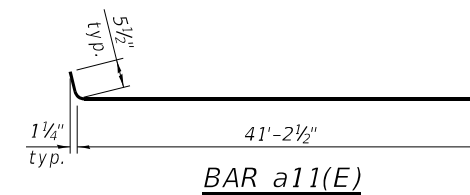


**SECTION A-A**

1"  $\emptyset$  x 2'-0" Dowel rods in 1 1/2"  $\emptyset$  holes drilled and grouted in cap (2 each beam). Cost included with Precast Bridge Approach Slab.

**TWO APPROACHES  
BILL OF MATERIAL**

| Bar                              | No. | Size | Length  | Shape  |
|----------------------------------|-----|------|---------|--------|
| a11(E)                           | 124 | #4   | 41'-8"  | —      |
| b10(E)                           | 172 | #4   | 29'-8"  | —      |
| t10(E)                           | 336 | #4   | 9'-8"   | —      |
| w10(E)                           | 80  | #5   | 42'-0"  | —      |
| w11(E)                           | 80  | #5   | 41'-4"  | —      |
| Protective Coat                  |     |      | Sq. Yd. | 558    |
| Bridge Deck Grooving             |     |      | Sq. Yd. | 538    |
| Concrete Structures              |     |      | Cu. Yd. | 51.9   |
| Reinforcement Bars, Epoxy Coated |     |      | Pound   | 15,980 |
| Precast Bridge Approach Slab     |     |      | Sq. Ft. | 4,875  |
| Concrete Wearing Surface, 5"     |     |      | Sq. Yd. | 558.4  |



(Beams: 36" min. width; 72" max. width)

(Sheet 3 of 3)

design firm  
No. 184-005896  
**MW**  
Midwest Engineering  
Associates, Inc.

|                          |                     |           |
|--------------------------|---------------------|-----------|
| USER NAME =              | DESIGNED - P.J.L.   | REVISED - |
| FILE NAME = 029-0069.dgn | CHECKED - AKM / FUH | REVISED - |
| PLOT SCALE =             | DRAWN - KRS         | REVISED - |
| PLOT DATE = 01/05/2021   | CHECKED - P.J.L.    | REVISED - |

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**PRECAST BRIDGE APPROACH SLAB  
STRUCTURE NO. 029-0069**  
SHEET NO. 22 OF 43 SHEETS

|                           |           |        |              |           |
|---------------------------|-----------|--------|--------------|-----------|
| F.A.P. RTE.               | SECTION   | COUNTY | TOTAL SHEETS | SHEET NO. |
| 317                       | (43-BR)BR | FULTON | 263          | 101       |
| CONTRACT NO. 68D34        |           |        |              |           |
| ILLINOIS FED. AID PROJECT |           |        |              |           |

**Notes:**

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

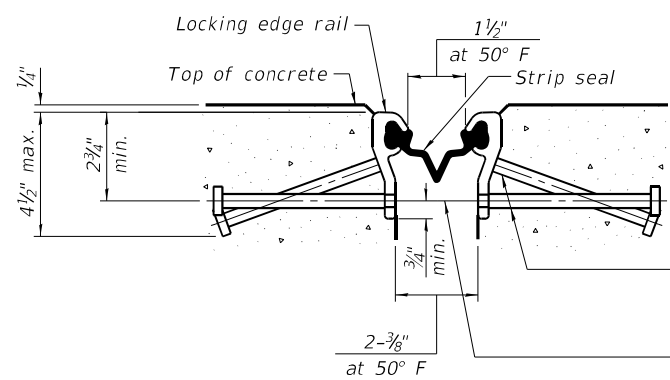
The locking edge rails depicted are configured for typical applications and are conceptual only. The actual configuration of the locking edge rails and matching strip seal may vary from manufacturer to manufacturer provided they fit the application and meet the minimum anchorage shown. Flanged edge rails,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

The manufacturer's recommended installation methods shall be followed.

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

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

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

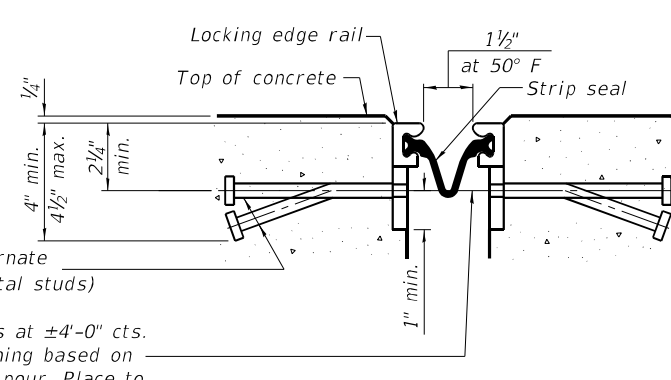


**SHOWING ROLLED RAIL JOINT**

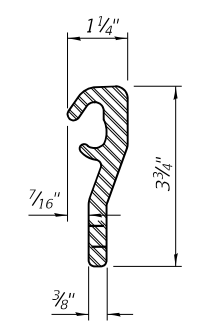
\* 3/8" Ø x 6" studs @ 6" cts. (alternate angled/bent studs with horizontal studs)  
 3/8" Ø threaded rods in 7/16" Ø holes at ±4'-0" cts. for holding the proper joint opening based on the temperature during the deck pour. Place to miss studs. All rods shall be burned, or sawed off flush with the plates after concrete is set.

**SECTION A-A**

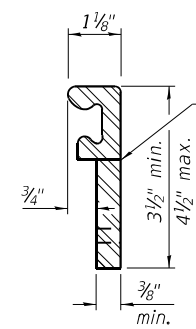
\* Granular or solid flux filled headed studs conforming to Article 1006.32 of the Std. Specs., automatically end welded.



**SHOWING WELDED RAIL JOINT**



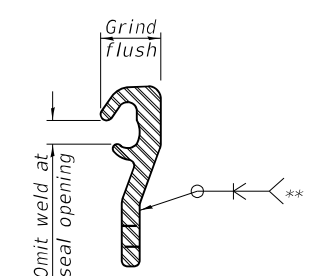
**ROLLED (EXTRUDED) RAIL**



**WELDED RAIL**

**LOCKING EDGE RAILS**

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



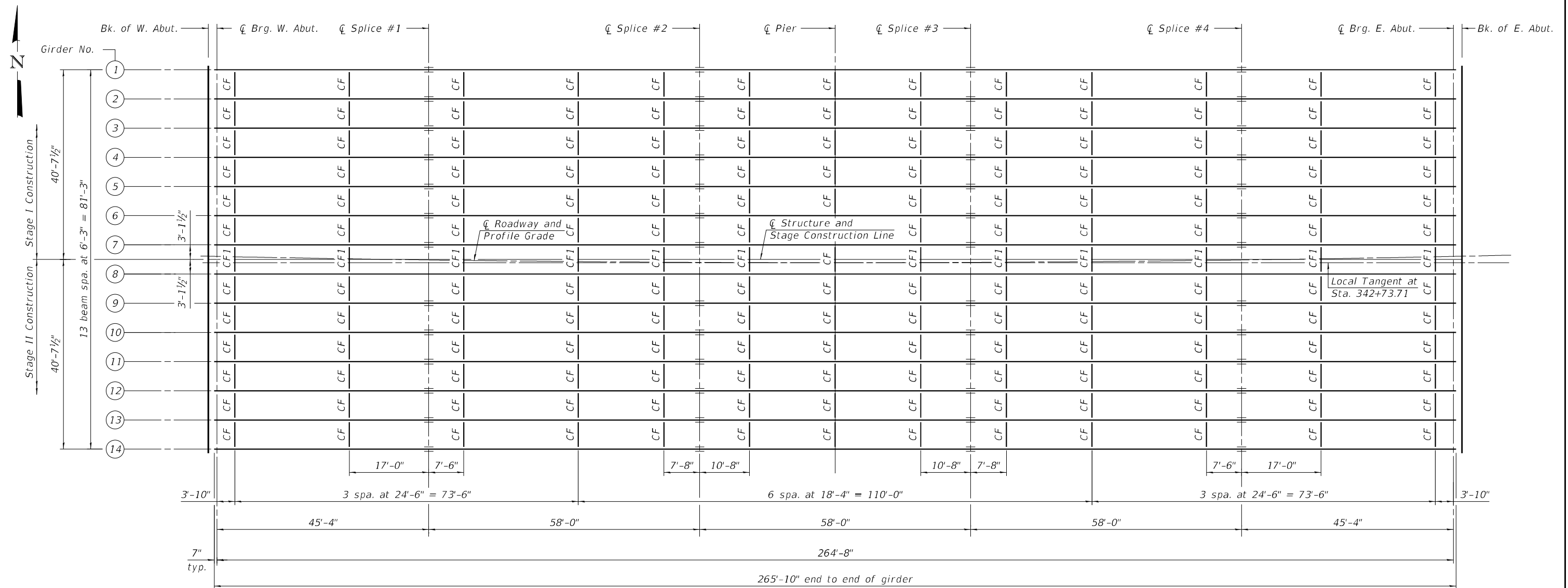
**LOCKING EDGE RAIL SPLICE**

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, 2 3/8" | Foot | 168.5 |





**FRAMING PLAN**

**Notes:**

- All new structural steel shall be AASHTO M270, Grade 50, except noted otherwise and shall be hot dip galvanized. See Special Provision for "Hot Dip Galvanizing Structural Steel".
- Steel erection shall be completed in accordance with Article 505.08 of the Standard Specifications. Splices have been investigated for the one span only girder erected condition and the two span fully erected girder condition. Both conditions investigated assumed a minimum of 25% holes filled with finger-tight bolts and 25% filled with cylindrical erection pins having a minimum tensile strength of 95 ksi.
- All cross frames shall be installed as steel is erected and secured with erection pins and bolts except as otherwise noted. Individual cross frames at supports may be temporarily disconnected to install bearing anchor rods.
- Load carrying components designated "CVN" shall conform to the Charpy-V-Notch Impact Energy Requirements, Zone 2.
- Girders have bearing stiffeners and connection plates as required by design. Additional stiffeners may be added at the Contractor's expense as necessary to prevent distortion of the girders during galvanizing. The Contractor shall coordinate with the fabricator and the galvanizer to determine if additional stiffeners are necessary, and where these should be placed. Any proposed changes shall be submitted to the Engineer for approval prior to making any changes and documented on the shop drawings.
- Temporary stiffener angles shall be bolted to each side of the splice ends of each girder segment to prevent distortion during galvanizing. Temporary stiffener angles shall bolt or fit tight against top and bottom flanges and shall include spacer tubes to minimize damage to galvanizing during removal. Cost included with Furnishing and Erecting Structural Steel.

FILE NAME: L:\Jobs\Westview Engineers\811 IL 9 over Copperas Creek\PH\CA\00\CA\00\_Sheets\029001-68034.dgn  
 Design firm no. 18400/036



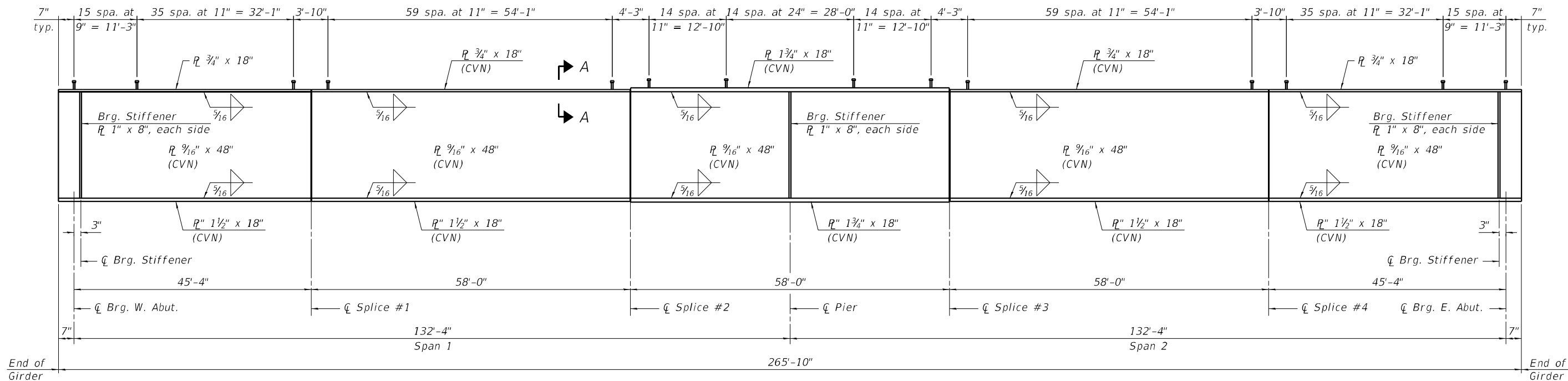
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|------------------------------|----------------|---------|
| USER NAME = dheberling       | DESIGNED - SBC | REVISED |
| FILE NAME = 029001-68034.dgn | CHECKED - BJJ  | REVISED |
| PLOT SCALE = 0.2" = 1'-0"    | DRAWN - DLH    | REVISED |
| PLOT DATE = 3/17/2021        | CHECKED - SBC  | REVISED |

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**FRAMING PLAN  
STRUCTURE NO. 029-0069**

SHEET NO. 24 OF 43 SHEETS

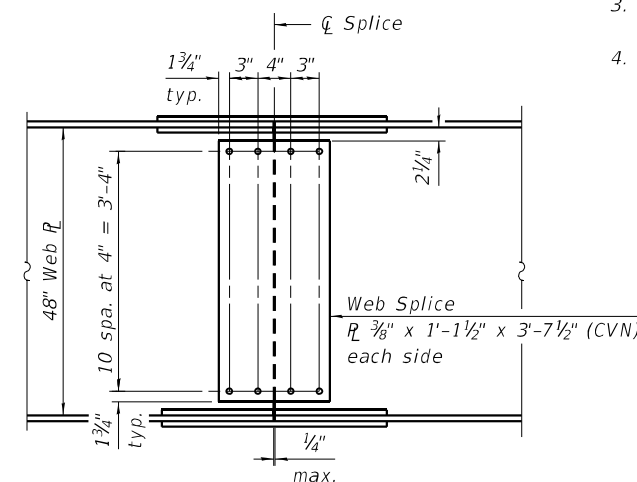
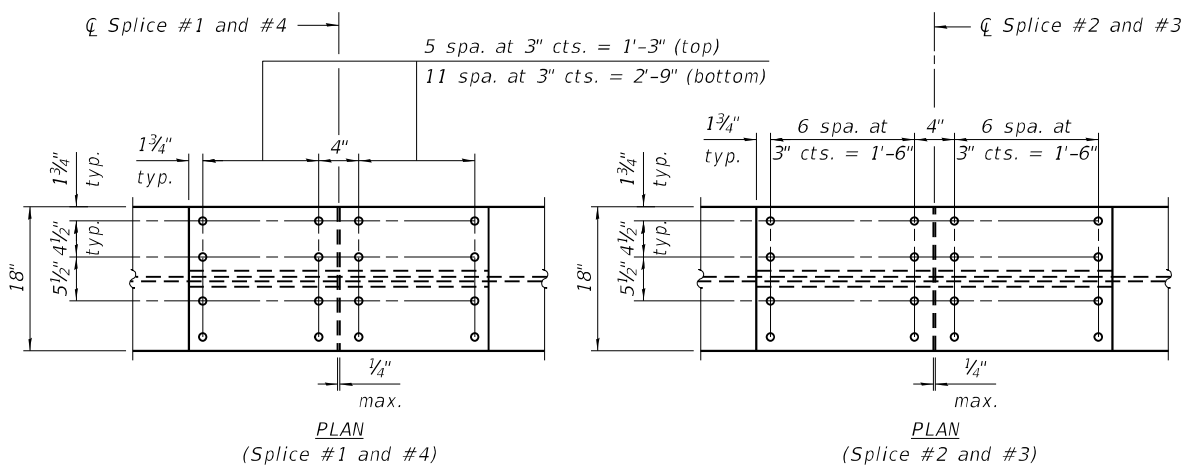
|                           |                   |               |                  |               |
|---------------------------|-------------------|---------------|------------------|---------------|
| F.A.P. RTE. 317           | SECTION (43-BR)BR | COUNTY FULTON | TOTAL SHEETS 263 | SHEET NO. 103 |
| CONTRACT NO. 68034        |                   |               |                  |               |
| ILLINOIS FED. AID PROJECT |                   |               |                  |               |



**GIRDER ELEVATION**

**Splice Notes:**

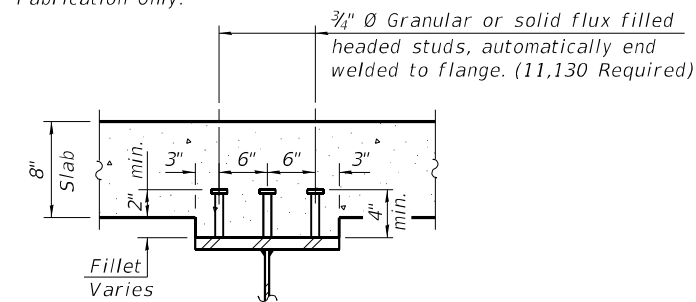
1. All splices are symmetrical about  $\bar{C}$  splice.
2. H.S. bolts shall be  $\frac{7}{8}$ "  $\bar{O}$  ASTM F3125, Grade A325, Type 1.
3. Load carrying components designated "CVN" shall conform to the Charpy-V-Notch Impact Energy Requirements, Zone 2.
4. All plates composing the splices shall be AASHTO M270, Grade 50, and shall be hot dip galvanized. See Special Provisions for "Hot Dip Galvanizing Structural Steel".



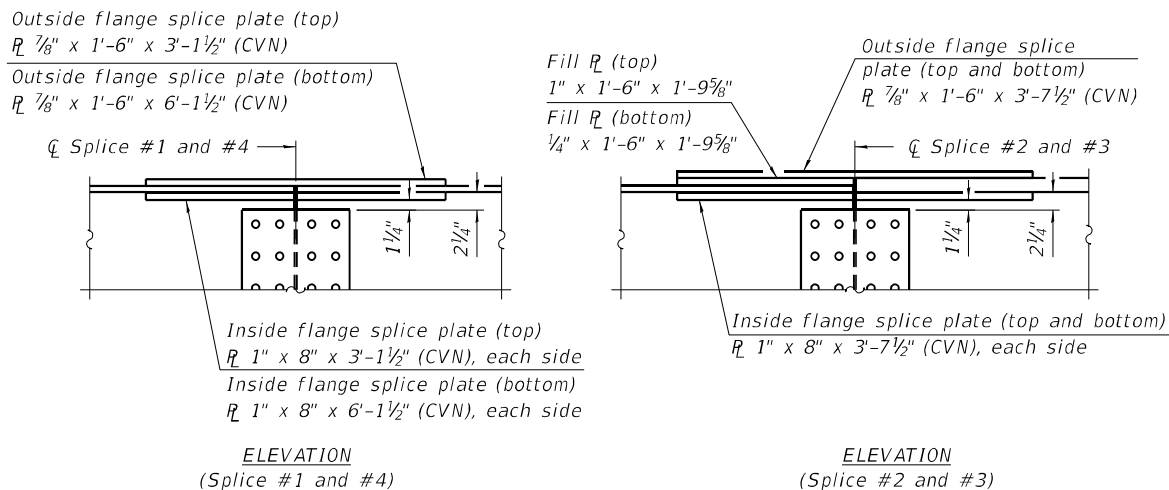
**\*\* TOP OF WEB ELEVATIONS**

| Location  | $\bar{C}$ Brg. W. Abut. | $\bar{C}$ Splice #1 | $\bar{C}$ Splice #2 | $\bar{C}$ Pier | $\bar{C}$ Splice #3 | $\bar{C}$ Splice #4 | $\bar{C}$ Brg. E. Abut. |
|-----------|-------------------------|---------------------|---------------------|----------------|---------------------|---------------------|-------------------------|
| Girder 1  | 463.29                  | 463.77              | 464.00              | 464.24         | 464.48              | 465.19              | 465.45                  |
| Girder 2  | 463.46                  | 463.94              | 464.17              | 464.41         | 464.65              | 465.36              | 465.61                  |
| Girder 3  | 463.63                  | 464.12              | 464.34              | 464.58         | 464.82              | 465.53              | 465.78                  |
| Girder 4  | 463.79                  | 464.29              | 464.51              | 464.75         | 464.98              | 465.70              | 465.95                  |
| Girder 5  | 463.96                  | 464.46              | 464.68              | 464.92         | 465.15              | 465.87              | 466.11                  |
| Girder 6  | 464.13                  | 464.63              | 464.85              | 465.09         | 465.32              | 466.04              | 466.28                  |
| Girder 7  | 464.30                  | 464.80              | 465.02              | 465.25         | 465.49              | 466.21              | 466.45                  |
| Girder 8  | 464.47                  | 464.97              | 465.19              | 465.42         | 465.66              | 466.38              | 466.61                  |
| Girder 9  | 464.64                  | 465.14              | 465.36              | 465.59         | 465.83              | 466.54              | 466.78                  |
| Girder 10 | 464.81                  | 465.30              | 465.52              | 465.76         | 465.99              | 466.71              | 466.95                  |
| Girder 11 | 464.98                  | 465.47              | 465.69              | 465.93         | 466.16              | 466.88              | 467.12                  |
| Girder 12 | 465.15                  | 465.64              | 465.86              | 466.09         | 466.33              | 467.04              | 467.28                  |
| Girder 13 | 465.32                  | 465.80              | 466.03              | 466.26         | 466.49              | 467.20              | 467.45                  |
| Girder 14 | 465.49                  | 465.96              | 466.19              | 466.43         | 466.66              | 467.36              | 467.62                  |

\*\* For Fabrication Only.

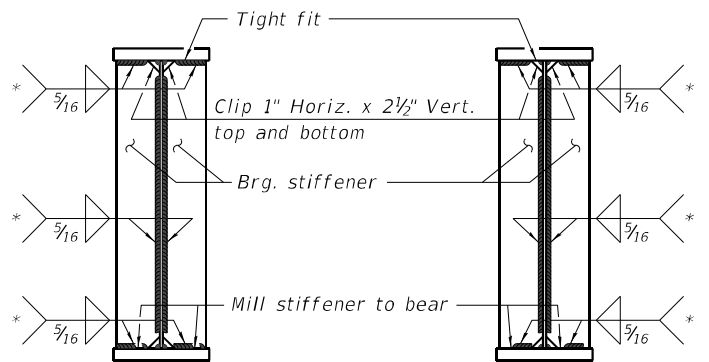


**SECTION A-A**



**FLANGE SPLICE PLATE DETAILS**

(Top flange splice plates shown, bottom flange splice plates similar, except as noted.)



**SECTION AT PIER**

**SECTION AT ABUTMENT**

\* Terminate  $\frac{1}{4}$ " ( $\pm \frac{1}{8}$ ") from the end of plate intersects.

FILE NAME: L:\Jobs\Westview Engineers\811 IL 9 over Copperas Creek\11 CAD\CADD\Sheets\029001-68034.dgn  
 Design Firm: no. 18400/036  
 whks  
 engineers • planners • land surveyors

|                              |                |         |
|------------------------------|----------------|---------|
| USER NAME = dtheberling      | DESIGNED - SBC | REVISED |
| FILE NAME = 029001-68034.dgn | CHECKED - BJJ  | REVISED |
| PLOT SCALE = 0.2" = 1'       | DRAWN - DLH    | REVISED |
| PLOT DATE = 3/17/2021        | CHECKED - SBC  | REVISED |

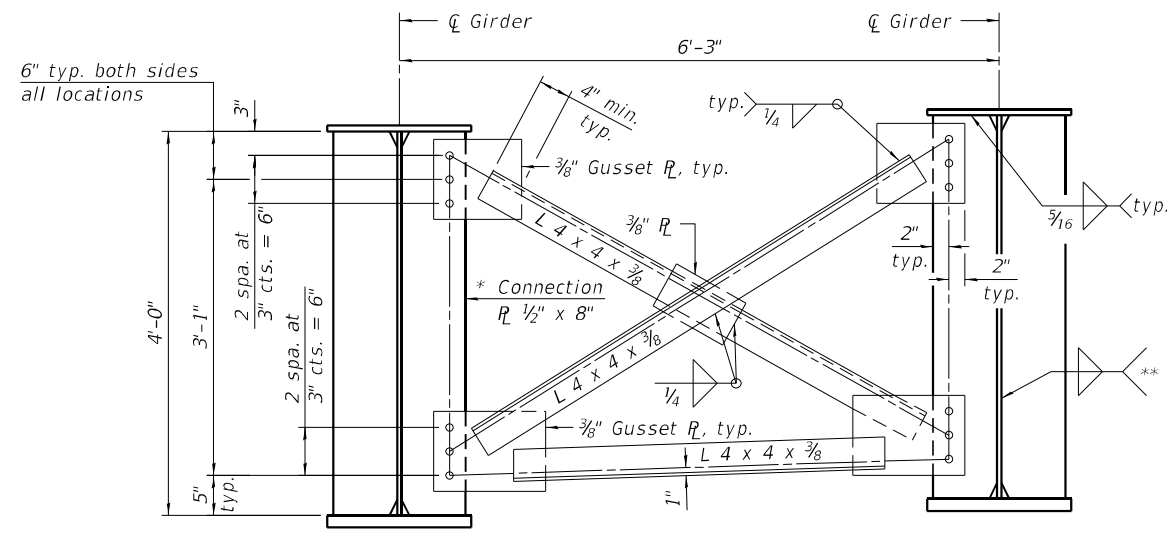
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**STRUCTURAL STEEL DETAILS I  
STRUCTURE NO. 029-0069**

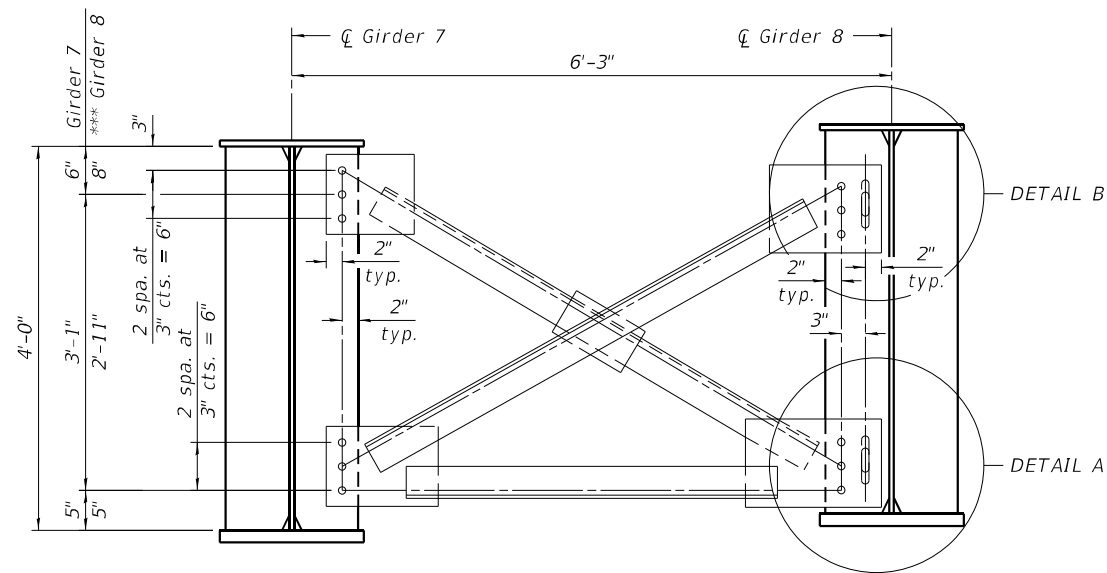
SHEET NO. 25 OF 43 SHEETS

|                    |                   |               |                  |               |
|--------------------|-------------------|---------------|------------------|---------------|
| F.A.P. RTE. 317    | SECTION (43-BR)BR | COUNTY FULTON | TOTAL SHEETS 263 | SHEET NO. 104 |
| CONTRACT NO. 68D34 |                   |               |                  |               |

ILLINOIS FED. AID PROJECT



**INTERIOR AND PIER CROSS-FRAME - CF**  
(157 Required)



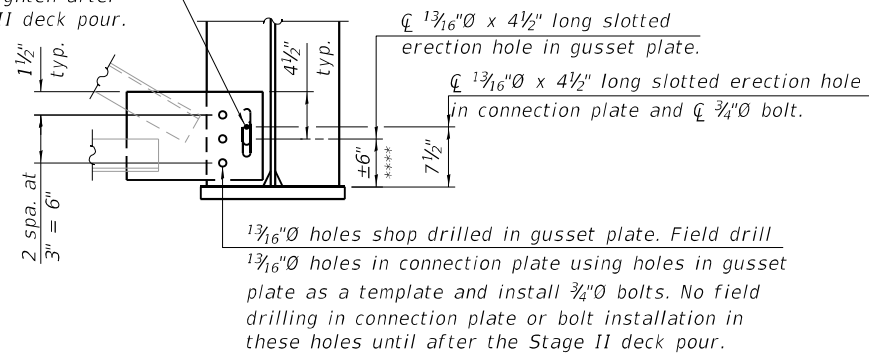
**STAGE CONSTRUCTION CROSS-FRAME - CF1**  
(See Interior and Pier Cross-Frame - CF for details and dimensions not shown.)  
(12 Required)

- \* 1" bearing stiffener plate each side of girder web at pier in lieu of connection plate shown.
- \*\* 1/4 for connection plate and 5/16 for bearing stiffener.
- \*\*\* Dimensions relative to the top and bottom of the web shall be used by the fabricator in determining cross-frame layout. Final dimensions at the completion of Stage II Construction may be ± depending upon actual field deflections.
- \*\*\*\* Dimensions are estimated from analysis and may vary due to actual deflections encountered in the field.

Notes:

1. Detail 1 5/16" Ø holes for 3/4" Ø bolts in all cross frames, unless noted otherwise.
2. Two hardened washers required for each set of oversized holes.
3. All plates and rolled shapes composing the cross frames including the connection plates welded to the girders shall be AASHTO M270, Grade 36 and shall be hot dip galvanized. See Special Provisions "Hot Dipped Galvanizing Structural Steel."

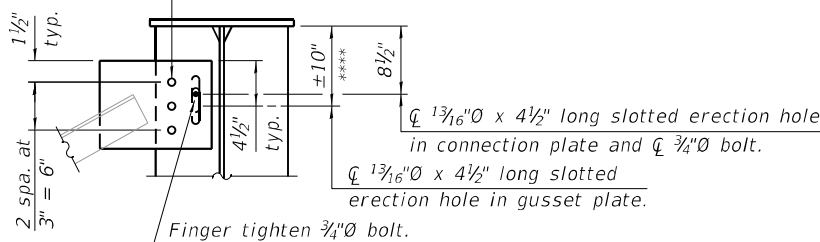
Finger tighten 3/4" Ø bolt.  
Fully tighten after  
Stage II deck pour.



**DETAIL A**

(Shown at completion of Stage II steel erection.)

1 3/16" Ø holes shop drilled in gusset plate. Field drill  
1 3/16" Ø holes in connection plate using holes in gusset  
plate as a template and install 3/4" Ø bolts. No field  
drilling in connection plate or bolt installation in  
these holes until after the Stage II deck pour.



**DETAIL B**

(Shown at completion of Stage II steel erection.)

FILE NAME: L:\Jobs\Midwest Engineers\8711 IL 9 over Copperas Creek PH\CA\034\034.dgn  
 Design firm no. 18400/036  
 whks engineers + planners + land surveyors

|                               |                |         |
|-------------------------------|----------------|---------|
| USER NAME = dheberling        | DESIGNED - SBC | REVISED |
| FILE NAME = 0290001-68034.dgn | CHECKED - BJJ  | REVISED |
| PLOT SCALE = 0.2" = 1' / in.  | DRAWN - DLH    | REVISED |
| PLOT DATE = 3/17/2021         | CHECKED - SBC  | REVISED |

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**STRUCTURAL STEEL DETAILS II  
STRUCTURE NO. 029-0069**

SHEET NO. 26 OF 43 SHEETS

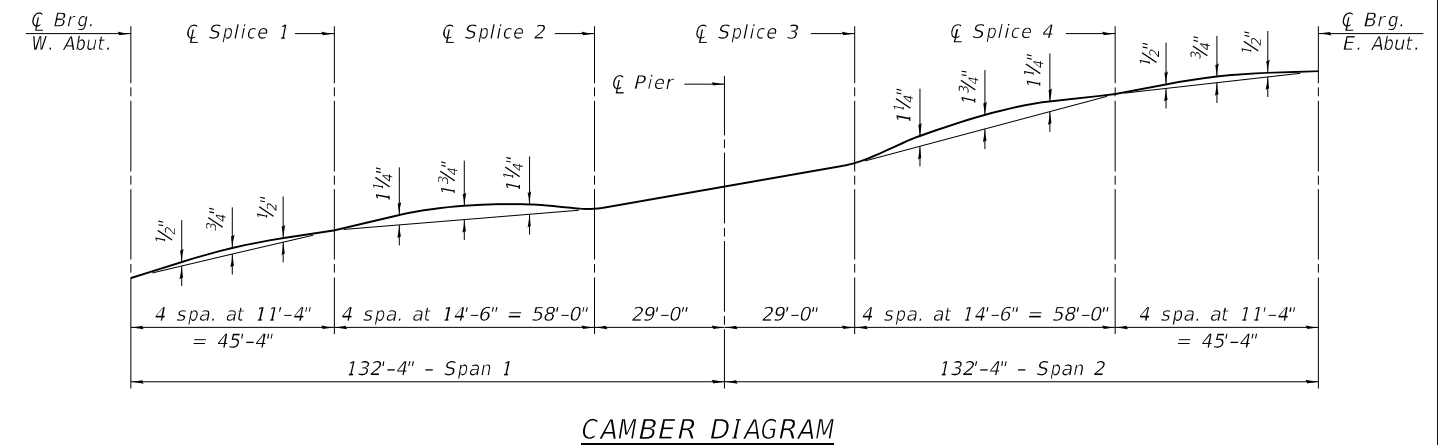
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| F.A.P. RTE.               | SECTION   | COUNTY | TOTAL SHEETS | SHEET NO. |
| 317                       | (43-BR)BR | FULTON | 263          | 105       |
| CONTRACT NO. 68034        |           |        |              |           |
| ILLINOIS FED. AID PROJECT |           |        |              |           |

| INTERIOR GIRDER MOMENT TABLE                |                    |                             |                           |       |
|---|--------------------|-----------------------------|---------------------------|-------|
|   |                    | 0.34 Sp. 1 or<br>0.66 Sp. 2 | 0.4 Sp. 1 or<br>0.6 Sp. 2 | Pier  |
| $I_s$                                       | (in <sup>4</sup> ) | 28045                       | 28045                     | 44182 |
| $I_{c(n)}$                                  | (in <sup>4</sup> ) | 71939                       | 71939                     | -     |
| $I_{c(3n)}$                                 | (in <sup>4</sup> ) | 50834                       | 50834                     | -     |
| $I_{c(cr)}$                                 | (in <sup>4</sup> ) | -                           | -                         | 49588 |
| $S_s$                                       | (in <sup>3</sup> ) | 1369                        | 1369                      | 1716  |
| $S_{c(n)}$                                  | (in <sup>3</sup> ) | 1838                        | 1838                      | -     |
| $S_{c(3n)}$                                 | (in <sup>3</sup> ) | 1684                        | 1684                      | -     |
| $S_{c(cr)}$                                 | (in <sup>3</sup> ) | -                           | -                         | 1791  |
| DC1   | (k/')              | 0.958                       | 0.958                     | 1.057 |
| MDC1  | (k)                | 1035                        | 1025                      | -2284 |
| DC2   | (k/')              | 0.175                       | 0.175                     | 0.175 |
| MDC2  | (k)                | 205                         | 205                       | -408  |
| DW  | (k)                | 0.294                       | 0.294                     | 0.294 |
| MDW   | (k)                | 345                         | 344                       | -686  |
| LLDF  |                    | 0.506                       | 0.506                     | 0.506 |
| $M_{\perp} + IM$                            | (k)                | 1631                        | 1686                      | -1809 |
| $f_l$ (Strength I)                          | (ksi)              | -                           | 0.0                       | 0.0   |
| $M_u + \frac{1}{3} f_l S_{xc}$              | (k)                | -                           | 5004                      | -7560 |
| $\phi_f M_n$                                | (k)                | -                           | 8751                      | -8227 |
| $f_s$ DC1                                   | (ksi)              | 9.1                         | 9.0                       | -16.0 |
| $f_s$ DC2                                   | (ksi)              | 1.5                         | 1.5                       | -2.7  |
| $f_s$ DW                                    | (ksi)              | 2.5                         | 2.5                       | -4.6  |
| $f_s$ ( $\perp$ +IM)                        | (ksi)              | 10.6                        | 11.0                      | -12.1 |
| $f_l$ (Service II)                          | (ksi)              | -                           | 0.0                       | 0.0   |
| $f_s + \frac{f_l}{2}$ (Service II)          | (ksi)              | -                           | 27.2                      | -39.1 |
| 0.95Rh Fyf                                  | (ksi)              | -                           | 47.5                      | -47.5 |
| $f_s + \frac{f_l}{3}$ (Total)(Strength I)   | (ksi)              | -                           | -                         | -     |
| $\phi_f F_n$                                | (ksi)              | -                           | -                         | -     |
| * $f_t$ (At Splice - Strength I)            | (ksi)              | 35.5                        | -                         | -     |
| ** $0.84(A_n/Ag)F_u \leq F_y t$ (At Splice) | (ksi)              | 43.2                        | -                         | -     |
| Vf  | (k)                | 30                          | 30                        | 30    |

Notes:

- DC2 equally distributed to the three exterior girders.
  - $M_{\perp}$  and  $R_{\perp}$  include the effects of centrifugal force and superelevation.
- \* Stress on gross area of the tension flange due to factored loads calculated without consideration of flange lateral bending.
- \*\* Maximum major-axis bending stress permitted on the gross section, neglecting the loss of area due to holes in the tension flange according to Article 6.10.1.8.

| GIRDER REACTION TABLE |     |          |          |          |          |
|-----------------------|-----|----------|----------|----------|----------|
|                       |     | Abut.    |          | Pier     |          |
|                       |     | Interior | Exterior | Interior | Exterior |
| LLDF                  |     | 0.689    | 0.454    | 0.689    | 0.454    |
| OCF                   |     | -        | -        | -        | -        |
| RDC1                  | (k) | 44.0     | 38.6     | 160.5    | 141.4    |
| RDC2                  | (k) | 8.5      | 8.5      | 29.3     | 29.4     |
| RDW                   | (k) | 14.3     | 14.3     | 49.3     | 49.3     |
| $R_{\perp}$           | (k) | 71.0     | 46.9     | 145.3    | 96.1     |
| $R_{IM}$              | (k) | 15.0     | 9.9      | 26.0     | 17.2     |
| RTotal                | (k) | 152.8    | 118.2    | 410.4    | 333.4    |



$I_s$ ,  $S_s$ : Non-composite moment of inertia and section modulus of the steel section used for computing  $f_s$ (Total-Strength I, and Service II) due to non-composite dead loads (in.<sup>4</sup> and in.<sup>3</sup>).

$I_{c(n)}$ ,  $S_{c(n)}$ : Composite moment of inertia and section modulus of the steel and deck based upon the modular ratio, "n", used for computing  $f_s$ (Total-Strength I, and Service II) in uncracked sections due to short term composite live loads (in.<sup>4</sup> and in.<sup>3</sup>).

$I_{c(3n)}$ ,  $S_{c(3n)}$ : Composite moment of inertia and section modulus of the steel and deck based upon 3 times the modular ratio, "3n", used for computing  $f_s$ (Total-Strength I, and Service II) in uncracked sections due to long-term composite (superimposed) dead loads (in.<sup>4</sup> and in.<sup>3</sup>).

$I_{c(cr)}$ ,  $S_{c(cr)}$ : Composite moment of inertia and section modulus of the steel and longitudinal deck reinforcement, used for computing  $f_s$ (Total-Strength I and Service II) in cracked sections, due to both short-term composite live loads and long-term composite (superimposed) dead loads (in.<sup>4</sup> and in.<sup>3</sup>).

$S_{xc}$ : Section modulus about the major axis of section to the controlling flange, tension or compression, taken as yield moment with respect to the controlling flange over the yield strength of the controlling flange (in.<sup>3</sup>).

DC1: Un-factored non-composite dead load (kips/ft.).

MDC1: Un-factored moment due to non-composite dead load (kip-ft.).

DC2: Un-factored long-term composite (superimposed excluding future wearing surface) dead load (kips/ft.).

MDC2: Un-factored moment due to long-term composite (superimposed excluding future wearing surface) dead load (kip-ft.).

DW: Un-factored long-term composite (superimposed future wearing surface only) dead load (kips/ft.).

MDW: Un-factored moment due to long-term composite (superimposed future wearing surface only) dead load (kip-ft.).

$M_{\perp} + IM$ : Un-factored live load moment plus dynamic load allowance (impact)(kip-ft.).

$M_u$  (Strength I): Factored design moment (kip-ft.).

$1.25 (MDC1 + MDC2) + 1.5 MDW + 1.75 M_{\perp} + IM$

$f_t$ : Factored calculated normal stress at edge of flange for controlling flange plate due to lateral bending, Strength I or Service II as applicable (ksi).

$\phi_f M_n$ : Compact composite positive moment capacity computed according to Article 6.10.7.1 or non-slender negative moment capacity according to Article A6.1.1 or A6.1.2 (kip-ft.).

$f_s$  DC1: Un-factored stress at edge of flange for controlling steel flange due to vertical non-composite dead loads as calculated below (ksi).

$MDC1 / S_{nc}$

$f_s$  DC2: Un-factored stress at edge of flange for controlling steel flange due to vertical composite dead loads as calculated below (ksi).

$MDC2 / S_{c(3n)}$  or  $MDC2 / S_{c(cr)}$  as applicable.

$f_s$  DW: Un-factored stress at edge of flange for controlling steel flange due to vertical composite future wearing surface loads as calculated below (ksi).

$MDW / S_{c(3n)}$  or  $MDW / S_{c(cr)}$  as applicable.

$f_s$  ( $\perp$ +IM): Un-factored stress at edge of flange for controlling steel flange due to vertical composite live plus impact loads as calculated below (ksi).

$M_{\perp} + IM / S_{c(n)}$  or  $M_{\perp} + IM / S_{c(cr)}$  as applicable.

$f_s + \frac{f_l}{2}$  (Service II): Sum of stresses as computed below (ksi).

$f_s DC1 + f_s DC2 + f_s DW + 1.3 f_s (\perp + IM) + \frac{f_l}{2}$

0.95RhFyf: Composite stress capacity for Service II loading according to Article 6.10.4.2 (ksi).

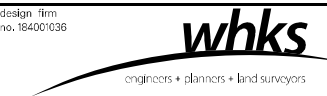
$f_s + \frac{f_l}{3}$  (Total)(Strength I): Sum of stresses as computed below on non-compact section (ksi).

$1.25 (f_s DC1 + f_s DC2) + 1.5 f_s DW + 1.75 f_s (\perp + IM) + \frac{f_l}{3}$

$\phi_f F_n$ : Non-Compact composite positive or negative stress capacity for Strength I loading according to Article 6.10.7 or 6.10.8 (ksi).

Vf: Maximum factored shear range in span computed according to Article 6.10.10.

FILE NAME: L:\Jobs\Westview Engineers\8711 IL 9 over Copperas Creek Ph 1\CA00\CA00\_Sheets\029001-68034.dgn



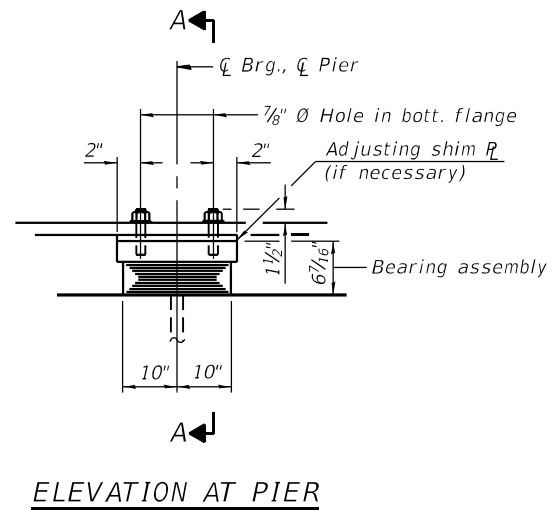
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|-------------------------------|----------------|---------|
| USER NAME = dtheberling       | DESIGNED - SBC | REVISED |
| FILE NAME = 0290001-68034.dgn | CHECKED - BJJ  | REVISED |
| PLOT SCALE = 0.2" = 1' / in.  | DRAWN - DLH    | REVISED |
| PLOT DATE = 3/17/2021         | CHECKED - SBC  | REVISED |

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

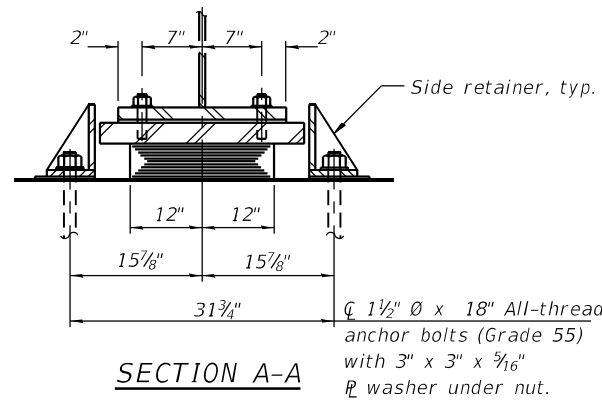
**STRUCTURAL STEEL DETAILS III  
STRUCTURE NO. 029-0069**

SHEET NO. 27 OF 43 SHEETS

|                           |           |        |              |           |
|---------------------------|-----------|--------|--------------|-----------|
| F.A.P. RTE.               | SECTION   | COUNTY | TOTAL SHEETS | SHEET NO. |
| 317                       | (43-BR)BR | FULTON | 263          | 106       |
| CONTRACT NO. 68034        |           |        |              |           |
| ILLINOIS FED. AID PROJECT |           |        |              |           |

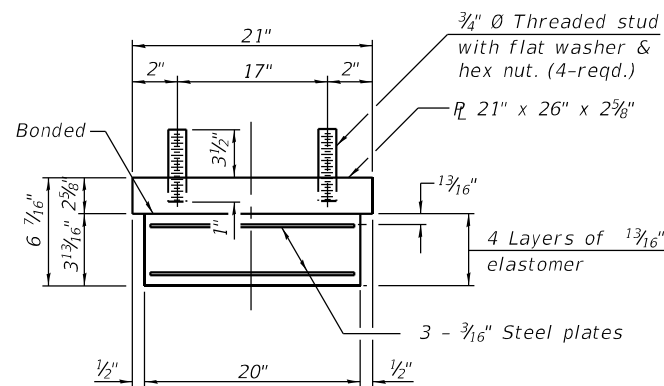


ELEVATION AT PIER



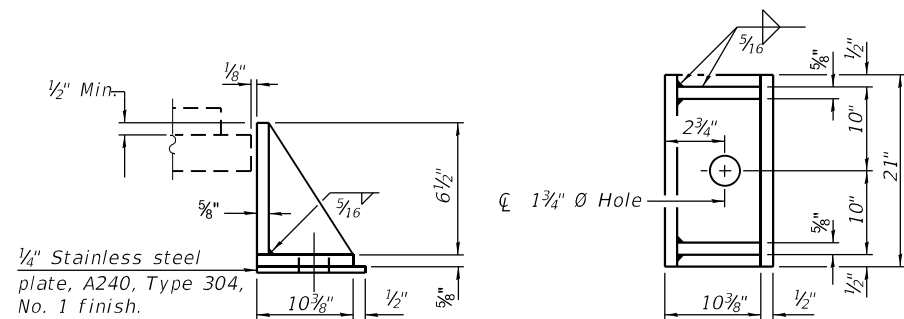
SECTION A-A

TYPE I ELASTOMERIC EXP. BRG.



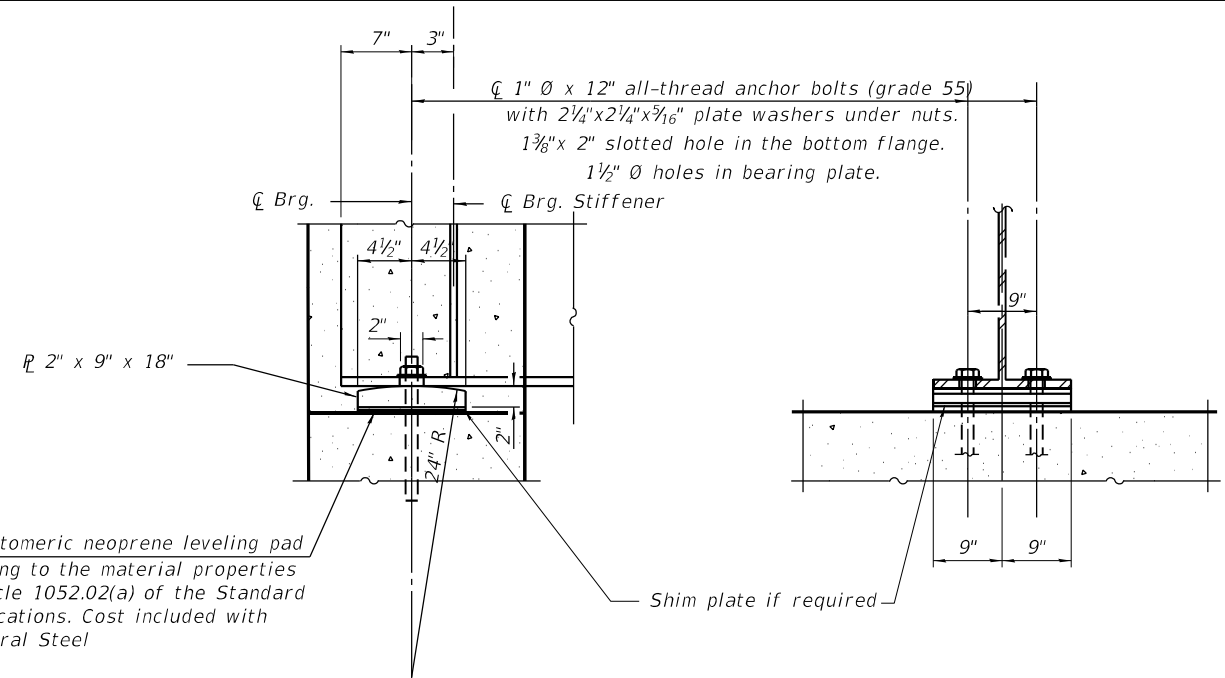
BEARING ASSEMBLY

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



SIDE RETAINER

Equivalent rolled angle with stiffeners will be allowed in lieu of welded plates.



INTEGRAL ABUTMENT BEARING FOR STEEL BEAMS

Notes:  
Side retainers and stainless steel plates shall be included in the cost of Elastomeric Bearing Assembly, Type I.  
Anchor bolts and side retainers at all supports shall be installed as each member is erected unless an equivalent temporary means of lateral restraint is used.

The structural steel plates of the Bearing Assembly shall conform to the requirements of AASHTO M 270 Grade 50.

Two 1/8 in. adjusting shims shall be provided for each bearing in addition to all other plates or shims and placed as shown on bearing details.

All bearing plates, side retainers, anchor bolts, nuts, washers and pintles shall be galvanized according to AASHTO M111 or M232 as applicable.

1/8" elastomeric neoprene leveling pad according to the material properties of Article 1052.02(a) of the Standard Specifications. Cost included with Structural Steel

BILL OF MATERIAL

| Item                                | Unit | Total |
|-------------------------------------|------|-------|
| Elastomeric Bearing Assembly Type I | Each | 14    |
| Anchor Bolts, 1 1/2"                | Each | 28    |
| Anchor Bolts, 1"                    | Each | 56    |

I-2E-1

6-15-2019



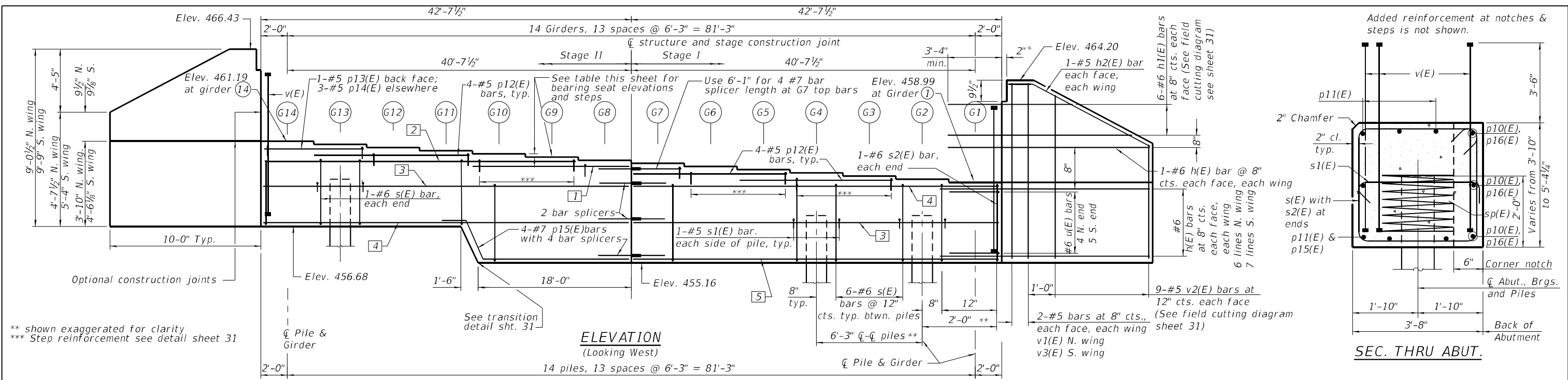
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|--------------------------|-------------------|-----------|
| USER NAME =              | DESIGNED - P.J.L. | REVISED - |
| FILE NAME = 029-0069.dgn | CHECKED - AKM     | REVISED - |
| PLOT SCALE =             | DRAWN - KRS       | REVISED - |
| PLOT DATE = 01/05/2021   | CHECKED - P.J.L.  | REVISED - |

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

BEARING DETAILS  
STRUCTURE NO. 029-0069

SHEET NO. 28 OF 43 SHEETS

|                           |           |        |                    |           |
|---------------------------|-----------|--------|--------------------|-----------|
| F.A.P. RTE.               | SECTION   | COUNTY | TOTAL SHEETS       | SHEET NO. |
| 317                       | (43-BR)BR | FULTON | 263                | 107       |
|                           |           |        | CONTRACT NO. 68D34 |           |
| ILLINOIS FED. AID PROJECT |           |        |                    |           |



**SEC. THRU ABUT.**

**BILL OF MATERIAL**

| Bar                              | No.     | Size | Length  | Shape |
|----------------------------------|---------|------|---------|-------|
| h(E)                             | 30      | #6   | 13'-2"  | —     |
| h1(E)                            | 12      | #6   | 19'-2"  | —     |
| h2(E)                            | 4       | #5   | 10'-5"  | —     |
| h10(E)                           | 16      | #4   | 3'-8"   | —     |
| h11(E)                           | 4       | #4   | 6'-2"   | —     |
| n10(E)                           | 5       | #4   | 9'-2"   | U     |
| p10(E)                           | 5       | #7   | 41'-6"  | —     |
| p11(E)                           | 11      | #7   | 42'-4"  | —     |
| p12(E)                           | 12      | #5   | 18'-7"  | —     |
| p13(E)                           | 1       | #5   | 10'-2"  | —     |
| p14(E)                           | 3       | #5   | 11'-0"  | —     |
| p15(E)                           | 4       | #7   | 24'-4"  | —     |
| p16(E)                           | 1       | #7   | 35'-2"  | —     |
| p17(E)                           | 3       | #7   | 36'-0"  | —     |
| p18(E)                           | 4       | #7   | 18'-7"  | —     |
| s(E)                             | 80      | #6   | 15'-0"  | □     |
| s1(E)                            | 28      | #5   | 4'-4"   | □     |
| s2(E)                            | 2       | #6   | 14'-0"  | □     |
| s3(E)                            | 76      | #5   | 8'-2"   | □     |
| sp(E)                            | 14      | #4   | 62'-10" | ○     |
| t20(E)                           | 10      | #4   | 4'-2"   | —     |
| t21(E)                           | 10      | #4   | 3'-8"   | —     |
| u(E)                             | 9       | #6   | 11'-10" | —     |
| v(E)                             | 203     | #8   | 7'-0"   | —     |
| v1(E)                            | 4       | #5   | 8'-7"   | —     |
| v2(E)                            | 18      | #5   | 13'-2"  | —     |
| v3(E)                            | 4       | #5   | 9'-4"   | —     |
| v10(E)                           | 4       | #4   | 6'-6"   | —     |
| w20(E)                           | 20      | #4   | 3'-8"   | —     |
| Structure Excavation             | Cu. Yd. |      | 271     |       |
| Concrete Structures              | Cu. Yd. |      | 56.7    |       |
| Reinforcement Bars, Epoxy Coated | Pound   |      | 10,970  |       |
| Furnishing Steel Piles, HP12x84  | Foot    |      | 546     |       |
| Driving Piles                    | Foot    |      | 546     |       |
| Test Pile steel, HP12x84         | Each    |      | 1       |       |

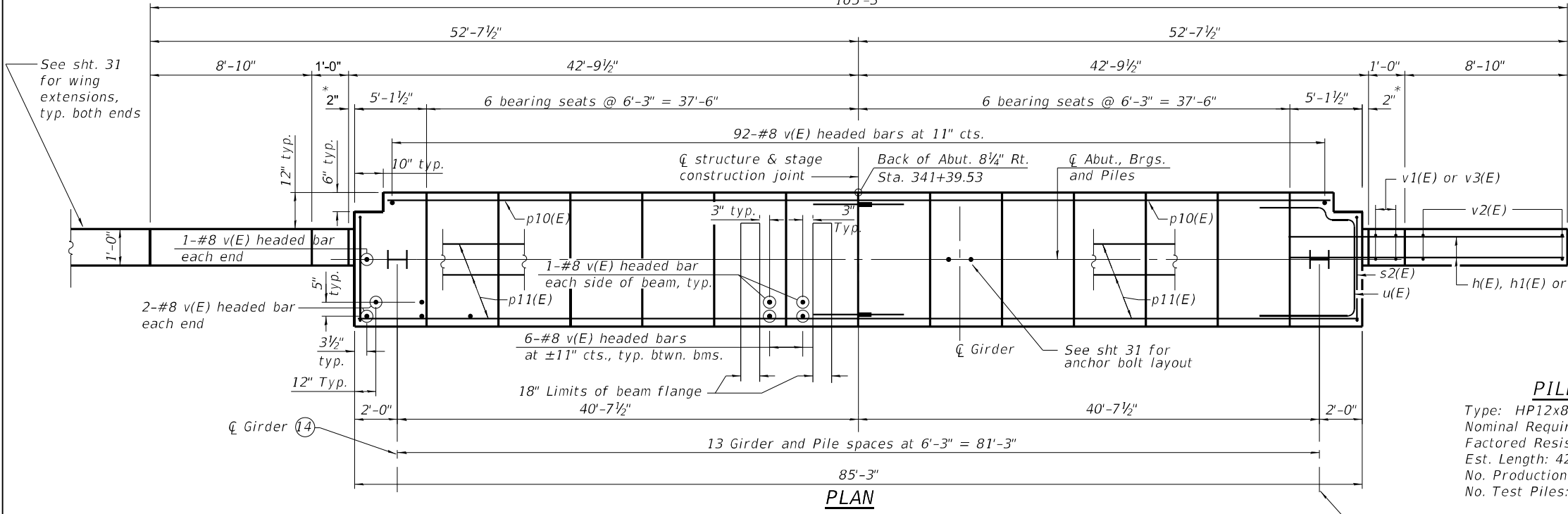
**PILE DATA**

Type: HP12x84  
 Nominal Required Bearing: 664 kips  
 Factored Resistance Available: 365 kips  
 Est. Length: 42  
 No. Production Piles: 13  
 No. Test Piles: 1

See sht. 31 and 32 for bar bending diagrams.

Notes:  
 Four steps monolithically with cap.  
 Headed bars shall conform to ASTM A970 with threaded attachment; Class HA; and reinforcement bars conforming to ASTM A706. Cost included with Reinforcement Bars, Epoxy Coated.  
 For details of piles see sheet 35.

\* The 2" notch becomes 3/2" if the contractor selects the parapet slip forming option. The contractor shall coordinate the required changes. Provide 2" clear for reinforcement bars.



**KEYED NOTES:**

- 1 4-#7 p18(E) bar with, 4 bar splicers
- 2 1-#7 p16(E) bar, back face; 3-#7 p17(E) bars, elsewhere
- 3 1-#7 p10(E) bar, back face; 1-#7 p11(E) bar, front face
- 4 1-#7 p10(E) bar, back face; 3-#7 p11(E) bars, elsewhere
- 5 1-#7 p10(E) bar, back face & 3-#7 p11(E) bars, elsewhere

| ☐ Bearing west Abutment | Bearing seat elevation | Seat step in inches |
|-------------------------|------------------------|---------------------|
| Girder 1                | 458.99                 |                     |
| Girder 2                | 459.16                 | 2"                  |
| Girder 3                | 459.33                 | 2 1/8"              |
| Girder 4                | 459.49                 | 1 7/8"              |
| Girder 5                | 459.66                 | 2"                  |
| Girder 6                | 459.83                 | 2 1/8"              |
| Girder 7                | 460.00                 | 2"                  |
| Girder 8                | 460.17                 | 2"                  |
| Girder 9                | 460.34                 | 2 1/8"              |
| Girder 10               | 460.51                 | 2"                  |
| Girder 11               | 460.68                 | 2"                  |
| Girder 12               | 460.85                 | 2 1/8"              |
| Girder 13               | 461.02                 | 2"                  |
| Girder 14               | 461.19                 | 2"                  |

design firm  
 No. 184-005896

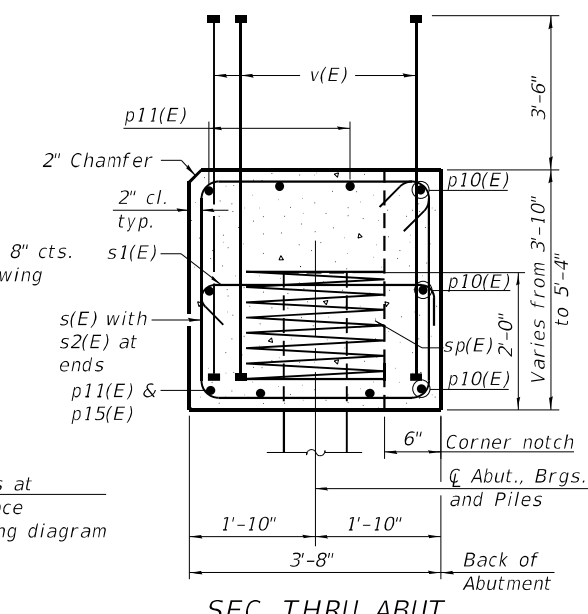
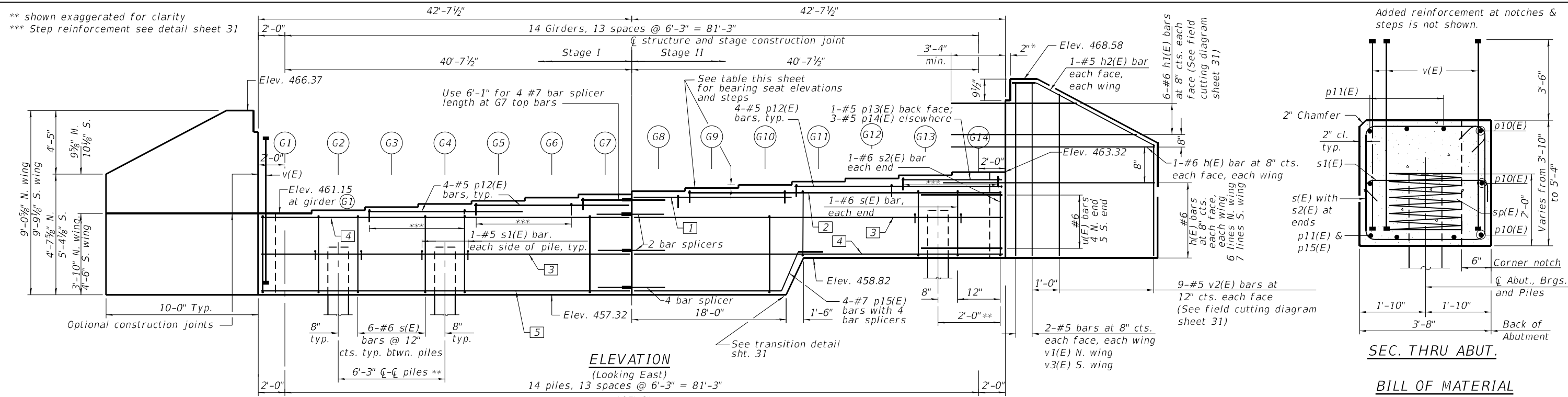
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| USER NAME =              | DESIGNED - P.J.L. | REVISD - |
| FILE NAME = 029-0069.dgn | CHECKED - AKM     | REVISD - |
| PLOT SCALE =             | DRAWN - KRS       | REVISD - |
| PLOT DATE = 01/05/2021   | CHECKED - P.J.L.  | REVISD - |

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**WEST ABUTMENT  
 STRUCTURE NO. 029-0069**  
 SHEET NO. 29 OF 43 SHEETS

|                           |           |        |              |           |
|---------------------------|-----------|--------|--------------|-----------|
| F.A.P. RTE.               | SECTION   | COUNTY | TOTAL SHEETS | SHEET NO. |
| 317                       | (43-BR)BR | FULTON | 263          | 108       |
| CONTRACT NO. 68D34        |           |        |              |           |
| ILLINOIS FED. AID PROJECT |           |        |              |           |

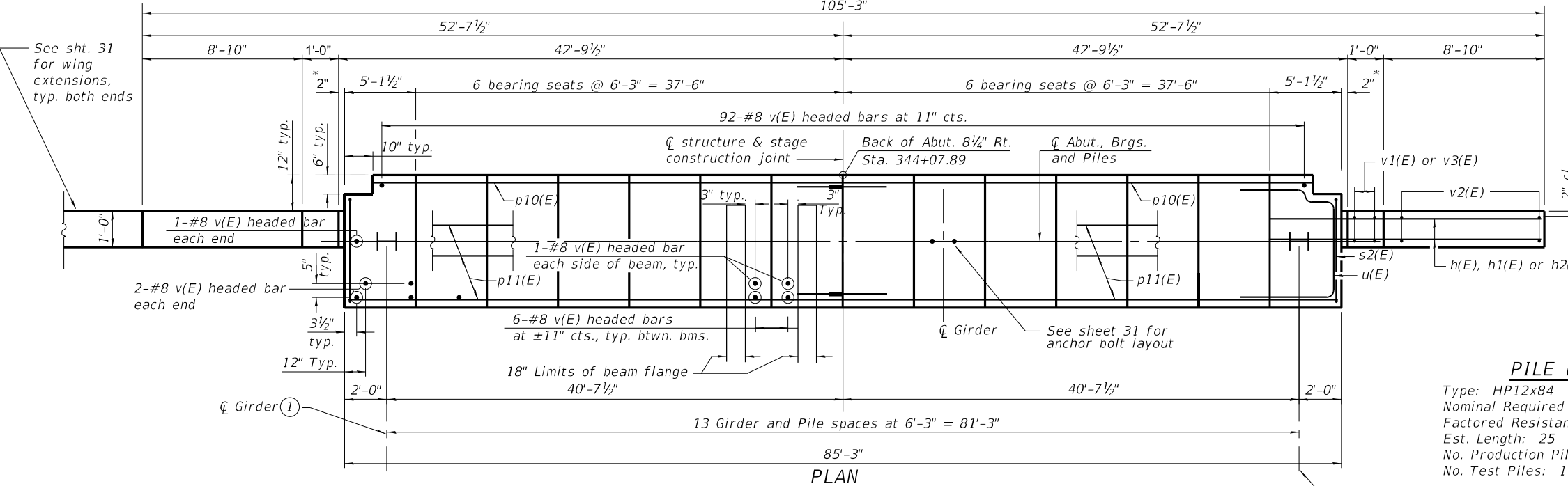
\*\* shown exaggerated for clarity  
 \*\*\* Step reinforcement see detail sheet 31



**ELEVATION**  
 (Looking East)  
 14 piles, 13 spaces @ 6'-3" = 81'-3"

**BILL OF MATERIAL**

| Bar                              | No.     | Size   | Length  | Shape |
|----------------------------------|---------|--------|---------|-------|
| h(E)                             | 30      | #6     | 13'-2"  | —     |
| h1(E)                            | 12      | #6     | 19'-2"  | —     |
| h2(E)                            | 4       | #5     | 10'-5"  | —     |
| h10(E)                           | 16      | #4     | 3'-8"   | —     |
| h11(E)                           | 4       | #4     | 6'-2"   | —     |
| n10(E)                           | 5       | #4     | 9'-2"   | U     |
| p10(E)                           | 5       | #7     | 41'-6"  | —     |
| p11(E)                           | 11      | #7     | 42'-4"  | —     |
| p12(E)                           | 12      | #5     | 18'-7"  | —     |
| p13(E)                           | 1       | #5     | 10'-2"  | —     |
| p14(E)                           | 3       | #5     | 11'-0"  | —     |
| p15(E)                           | 4       | #7     | 24'-4"  | —     |
| p16(E)                           | 1       | #7     | 35'-2"  | —     |
| p17(E)                           | 3       | #7     | 36'-0"  | —     |
| p18(E)                           | 4       | #7     | 18'-7"  | —     |
| s(E)                             | 80      | #6     | 15'-0"  | □     |
| s1(E)                            | 28      | #5     | 4'-4"   | —     |
| s2(E)                            | 2       | #6     | 14'-0"  | □     |
| s3(E)                            | 76      | #5     | 8'-2"   | □     |
| sp(E)                            | 14      | #4     | 62'-10" | ○     |
| t20(E)                           | 10      | #4     | 4'-2"   | —     |
| t21(E)                           | 10      | #4     | 3'-8"   | —     |
| u(E)                             | 9       | #6     | 11'-10" | —     |
| v(E)                             | 203     | #8     | 7'-0"   | —     |
| v1(E)                            | 4       | #5     | 8'-7"   | —     |
| v2(E)                            | 18      | #5     | 13'-2"  | —     |
| v3(E)                            | 4       | #5     | 9'-4"   | —     |
| v10(E)                           | 4       | #4     | 6'-6"   | —     |
| w20(E)                           | 20      | #4     | 3'-8"   | —     |
| Structure Excavation             | Cu. Yd. | 271    |         |       |
| Concrete Structures              | Cu. Yd. | 56.6   |         |       |
| Reinforcement Bars, Epoxy Coated | Pound   | 10,970 |         |       |
| Furnishing Steel Piles, HP12x84  | Foot    | 325    |         |       |
| Driving Piles                    | Foot    | 325    |         |       |
| Test Pile steel, HP12x84         | Each    | 1      |         |       |



**PLAN**

| ☐ Bearing east Abutment | Bearing seat elevation | Seat step in inches |
|-------------------------|------------------------|---------------------|
| Girder 1                | 461.15                 |                     |
| Girder 2                | 461.31                 | 2"                  |
| Girder 3                | 461.48                 | 2"                  |
| Girder 4                | 461.65                 | 2"                  |
| Girder 5                | 461.81                 | 2"                  |
| Girder 6                | 461.98                 | 2"                  |
| Girder 7                | 462.15                 | 2"                  |
| Girder 8                | 462.31                 | 2"                  |
| Girder 9                | 462.48                 | 2"                  |
| Girder 10               | 462.65                 | 2"                  |
| Girder 11               | 462.82                 | 2"                  |
| Girder 12               | 462.98                 | 2"                  |
| Girder 13               | 463.15                 | 2"                  |
| Girder 14               | 463.32                 | 2"                  |

**KEYED NOTES:**

- ☐ 4-#7 p18(E) bar with, 4 bar splicers
- ☐ 1-#7 p16(E) bar, back face; 3-#7 p17(E) bars, elsewhere
- ☐ 1-#7 p10(E) bar, back face; 1-#7 p11(E) bar, front face
- ☐ 1-#7 p10(E) bar, back face; 3-#7 p11(E) bars, elsewhere
- ☐ 1-#7 p10(E) bar, back face & 3-#7 p11(E) bars, elsewhere

**Notes:**

Pour steps monolithically with cap.  
 Headed bars shall conform to ASTM A970 with threaded attachment; Class HA; and reinforcement bars conforming to ASTM A706. Cost included with Reinforcement Bars, Epoxy Coated.  
 For details of piles see sheet 35.

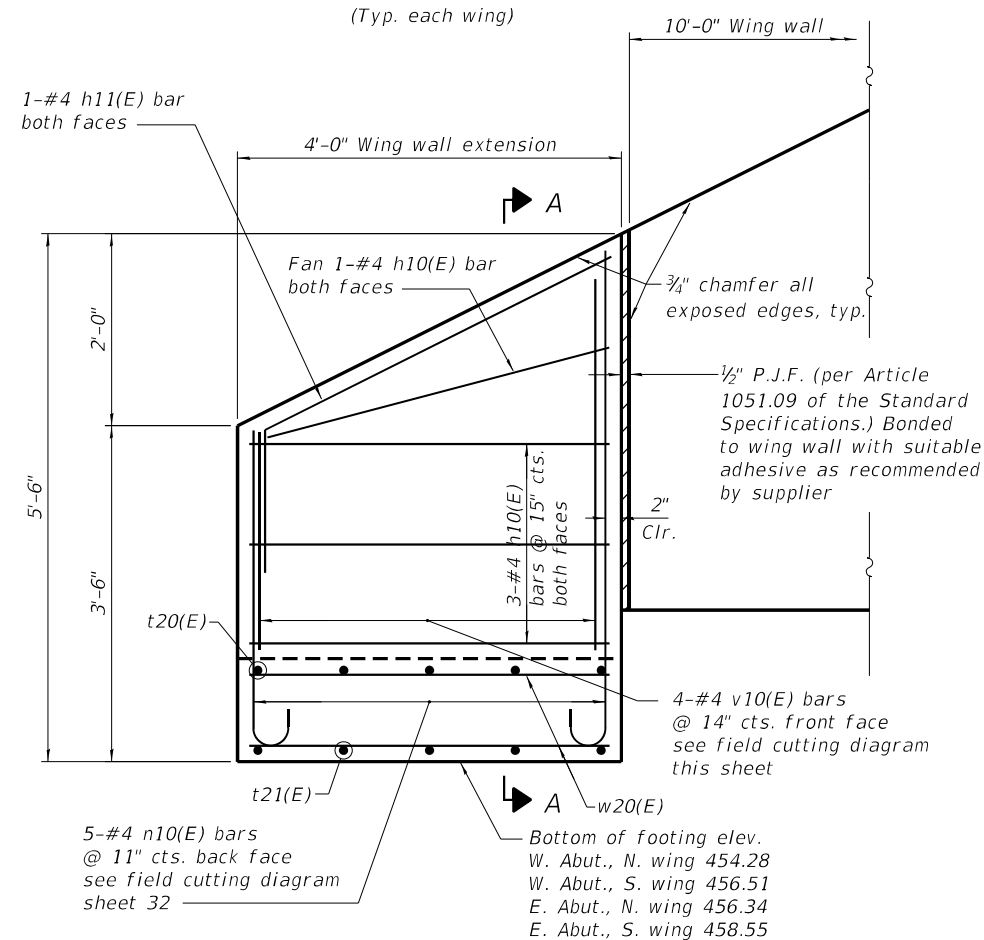
\* The 2" notch becomes 3 1/2" if the contractor selects the parapet slip forming option. The contractor shall coordinate the required changes. Provide 2" clear for reinforcement bars.

**PILE DATA**

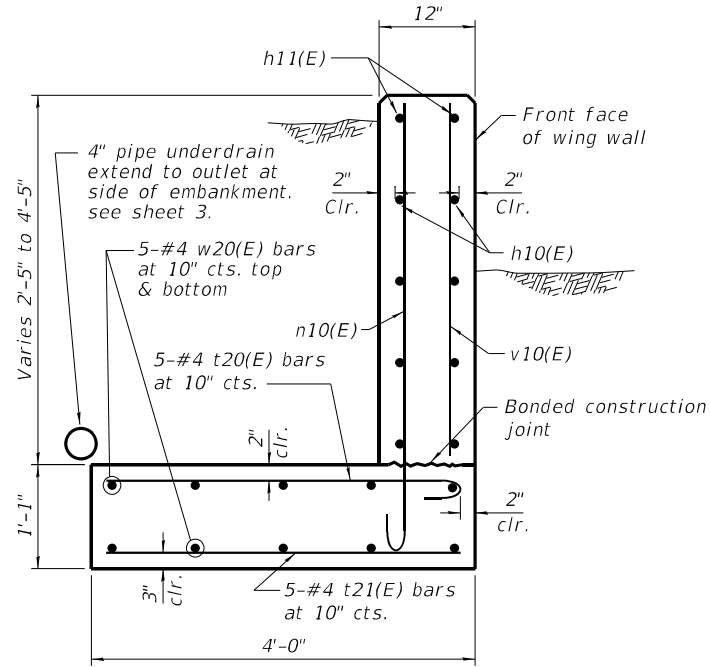
Type: HP12x84  
 Nominal Required Bearing: 664 kips  
 Factored Resistance Available: 331 kips  
 Est. Length: 25  
 No. Production Piles: 13  
 No. Test Piles: 1

See sht. 31 and 32 for bar bending diagrams.

**WING WALL EXTENSION DETAILS**

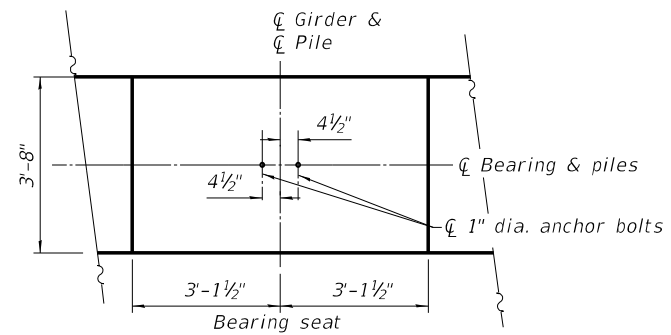


**FRONT ELEVATION VIEW**

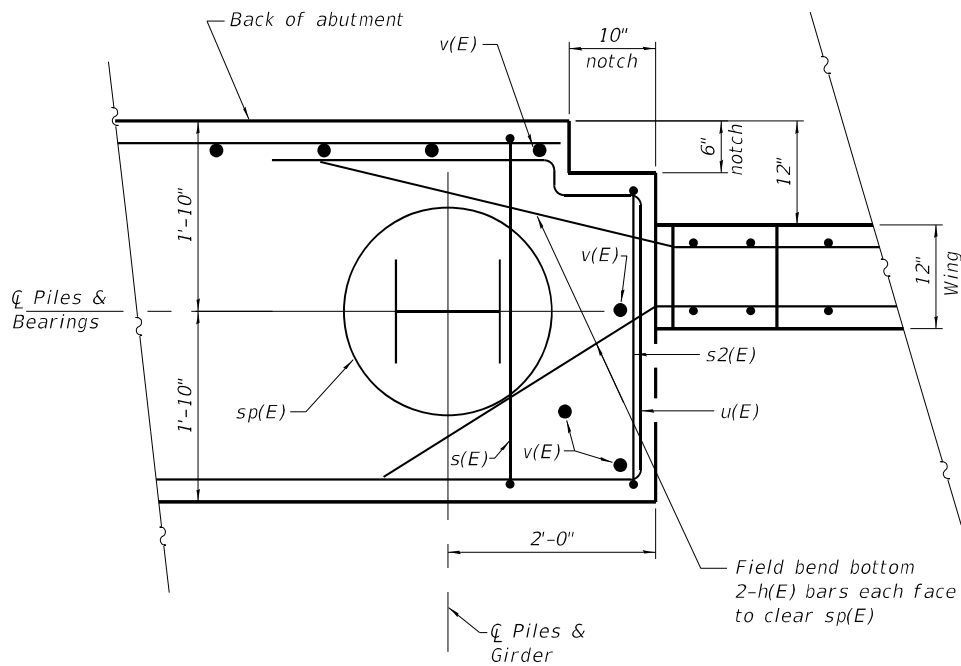
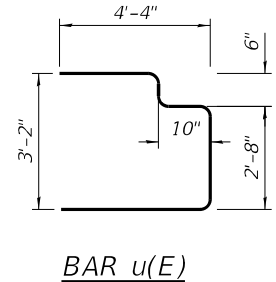
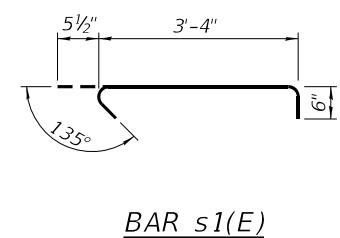
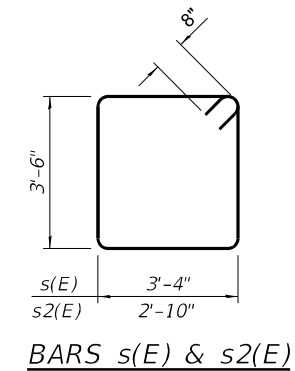
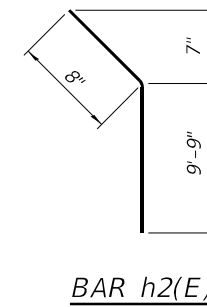
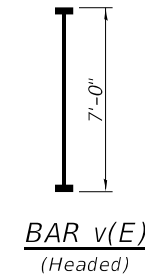


**SECTION A-A**

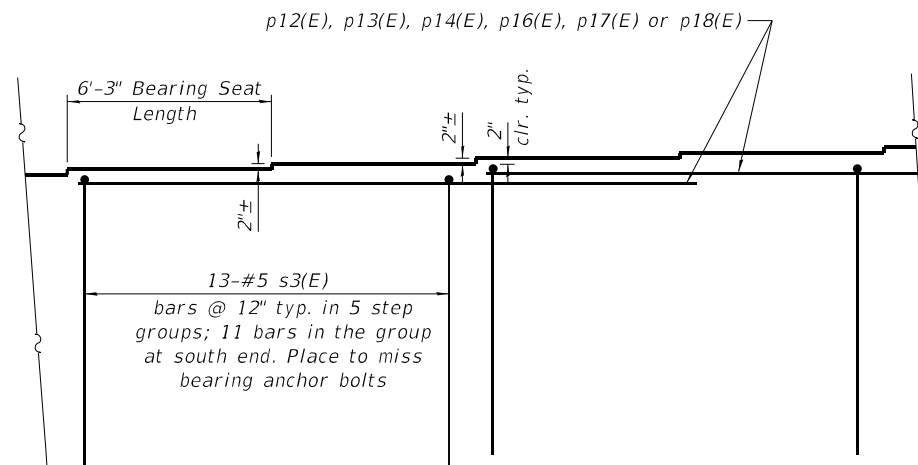
Minimum required allowable foundation bearing pressure = 2,000 p.s.f.



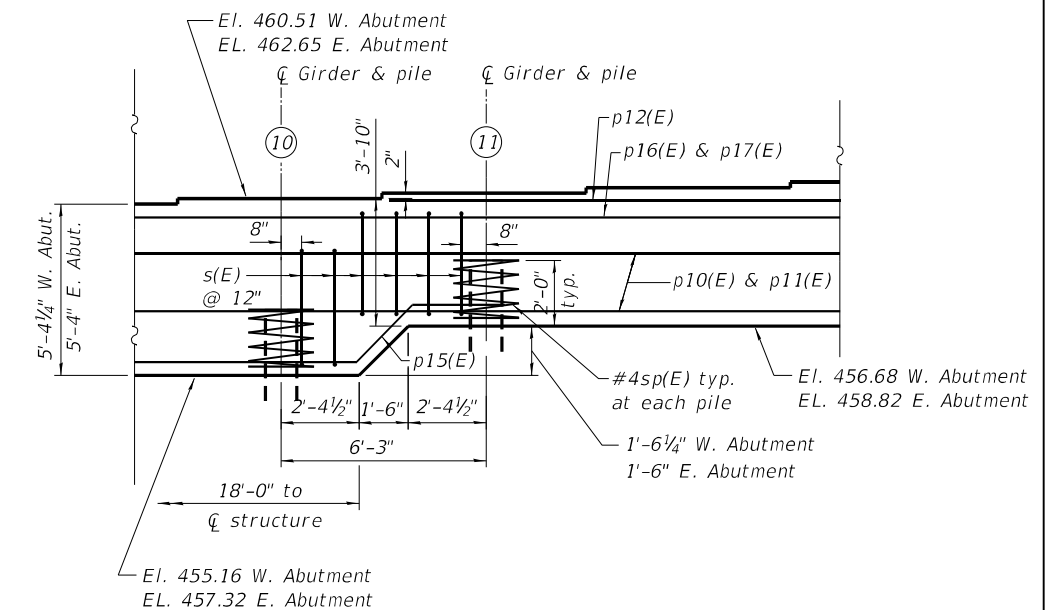
**TYPICAL ANCHOR BOLT LAYOUT**



**DETAIL AT END OF ABUTMENT TYPICAL**



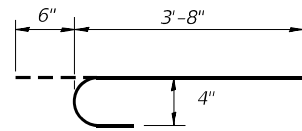
**SEAT STEP REINFORCEMENT**



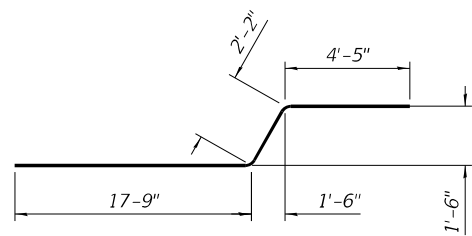
**ABUTMENT TRANSITION DETAIL**

|   |                          |                   |           |   |  |                           |           |          |                |             |
|---|--------------------------|-------------------|-----------|---|--|---------------------------|-----------|----------|----------------|-------------|
| design firm<br>No. 184-005896<br><b>MW</b><br>Midwest Engineering<br>Associates, Inc. | USER NAME =              | DESIGNED - P.J.L. | REVISED - | <b>STATE OF ILLINOIS<br/>DEPARTMENT OF TRANSPORTATION</b> | <b>ABUTMENT DETAILS<br/>STRUCTURE NO. 029-0069</b> | F.A.P. RTE. =             | SECTION = | COUNTY = | TOTAL SHEETS = | SHEET NO. = |
|   | FILE NAME = 029-0069.dgn | CHECKED - AKM     | REVISED - |   |  | 317                       | (43-BR)BR | FULTON   | 263            | 110         |
|   | PLOT SCALE =             | DRAWN - KRS       | REVISED - |   |  | CONTRACT NO. 68D34        |           |          |                |             |
|   | PLOT DATE = 01/05/2021   | CHECKED - P.J.L.  | REVISED - |   |  | ILLINOIS FED. AID PROJECT |           |          |                |             |
| SHEET NO. 31 OF 43 SHEETS   |                          |                   |           |   |  |                           |           |          |                |             |

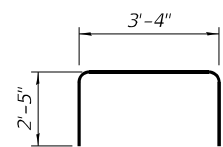




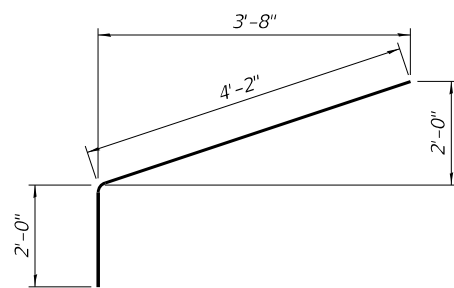
BAR t20 (E)



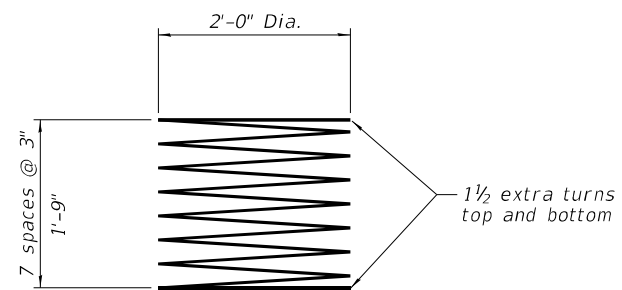
BAR p15 (E)



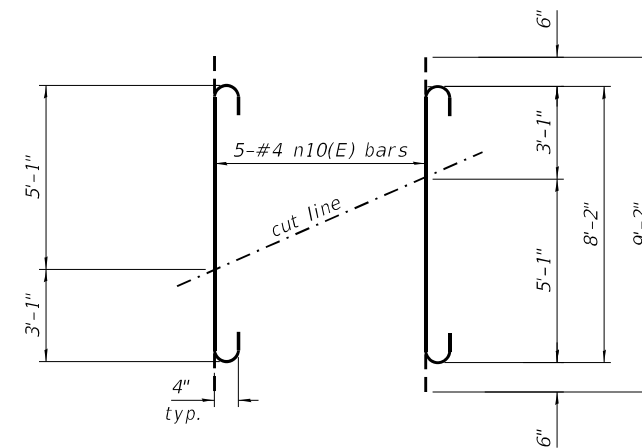
BAR s3 (E)



BAR h11 (E)



BAR sp (E)



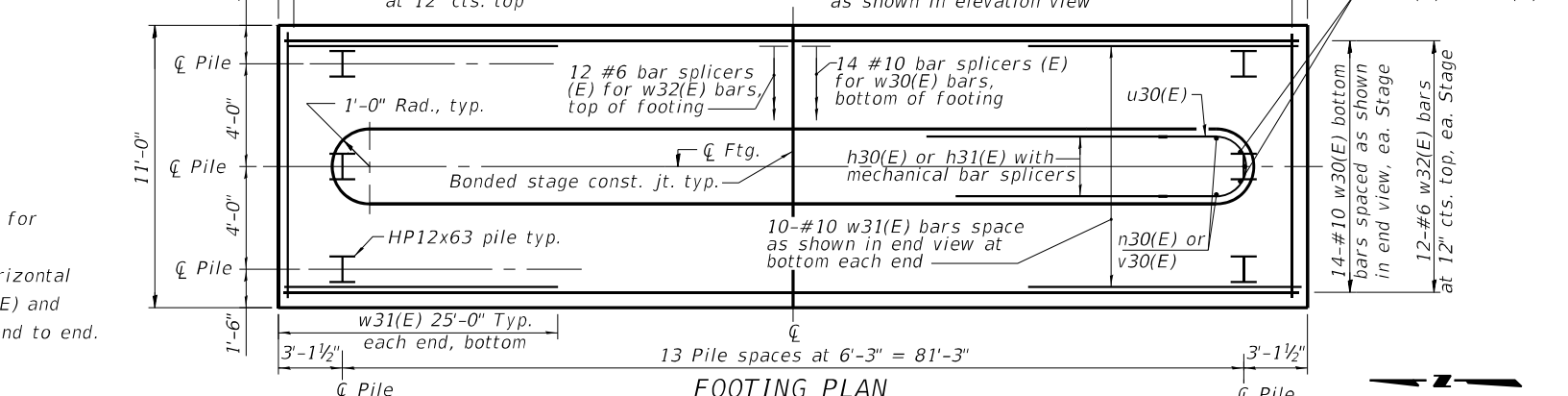
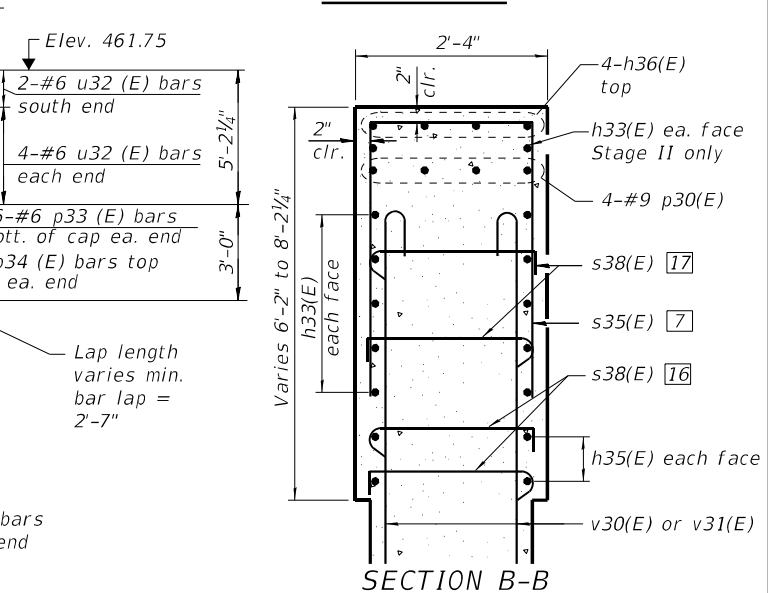
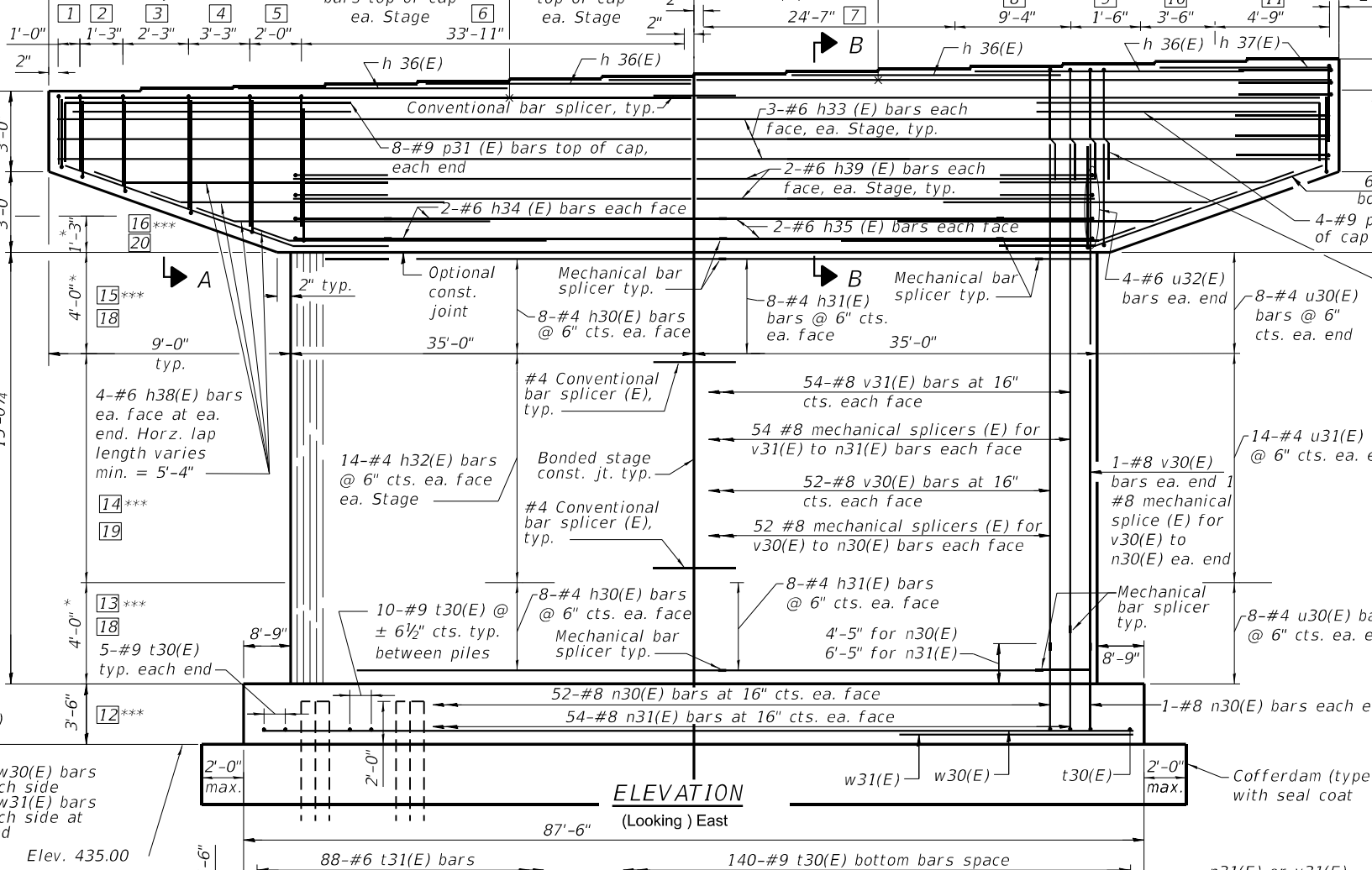
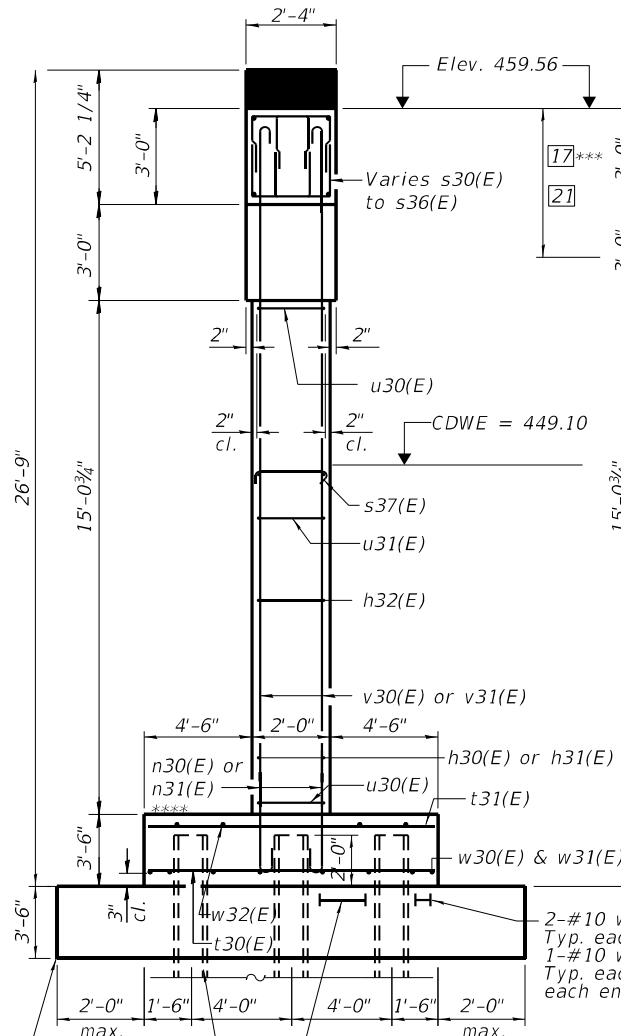
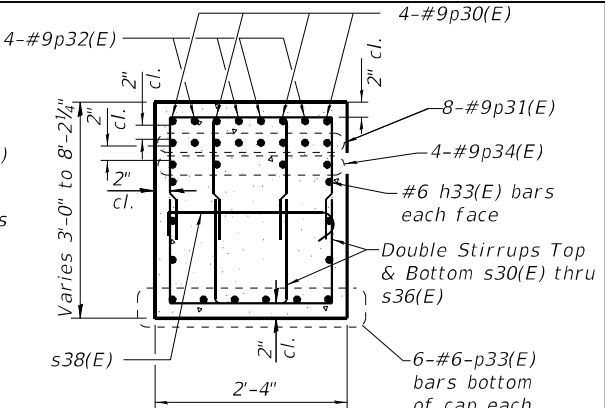
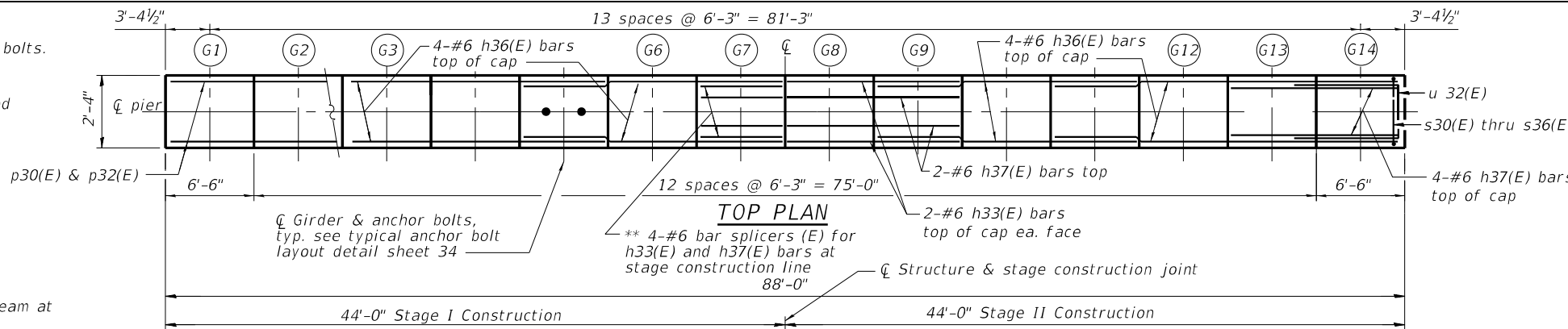
BAR n10 (E)

With bar cutting diagram order n10 (E) full length. Cut as shown use remainder in opposite wing.

Notes:  
 Space reinforcement in cap to miss anchor bolts.  
 Pour steps monolithically with cap.  
 For details of piles, see sheet 35.  
 For locations of mechanical bar splicers and bar splicer assemblies, see sheet 34.

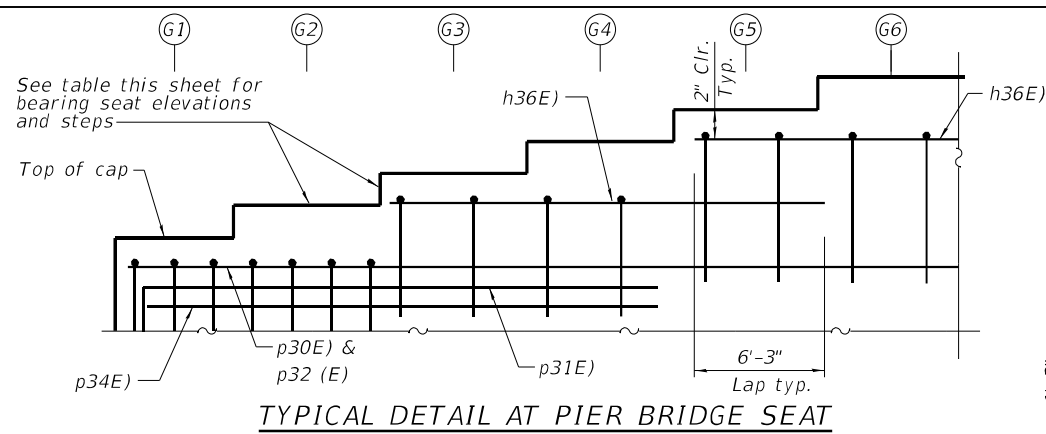
**PILE DATA**

Type: HP12x63  
 Nominal Required Bearing: 497 kip  
 Factored Resistance Available: 273 kip  
 Est. Length: 27 feet  
 No. Production Piles: 41  
 No. Test Piles: 1  
 Piles are to be driven through the coal seam at elevation ±418 to ±415.

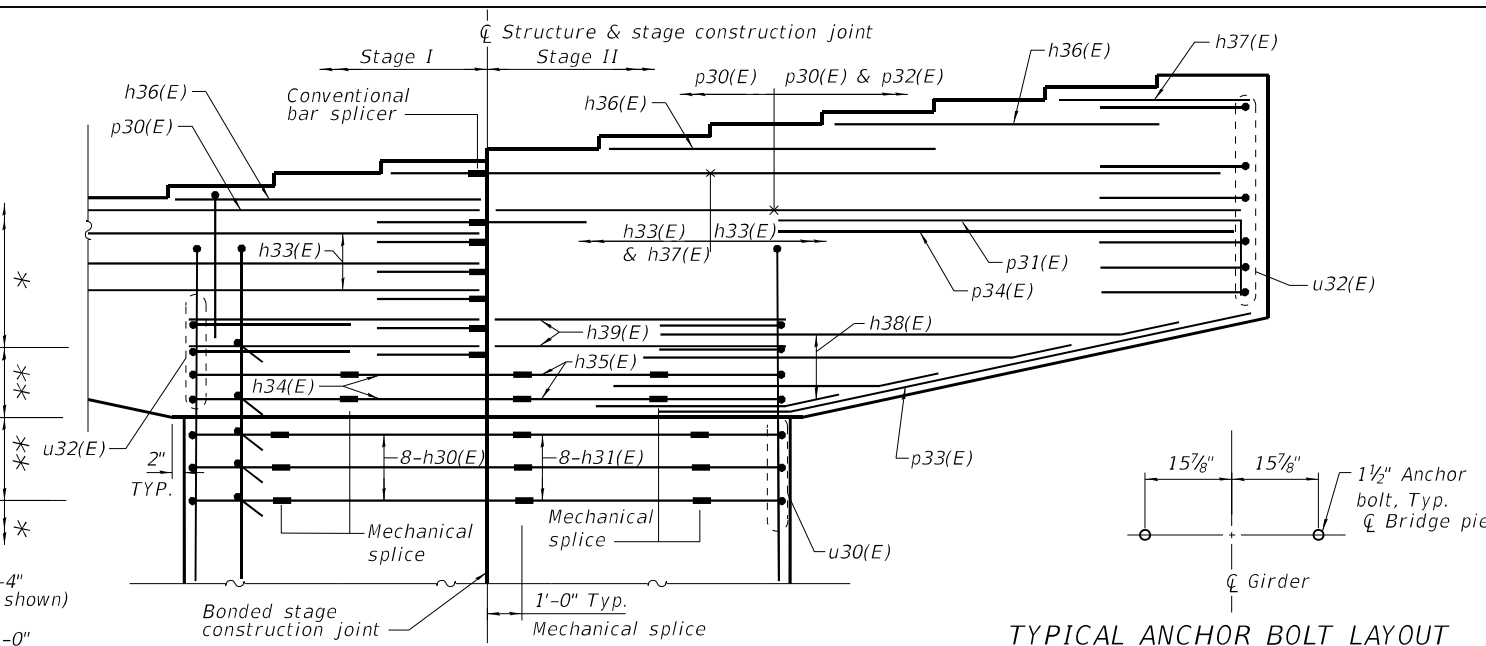


- KEYED NOTES:**
- 1 4 pairs-#4 s30(E) bars @ 3" cts. top & bottom
  - 2 5 pairs-#4 s31(E) bars @ 3" cts. top & bottom
  - 3 9 pairs-#4 s32(E) bars @ 3" cts. top & bottom
  - 4 13 pairs-#4 s33(E) bars @ 3" cts. top & bottom
  - 5 8 pairs-#4 s34(E) bars @ 3" cts. top & bottom
  - 6 52-#4 s39(E) bars @ 8" cts. (max.) top
  - 7 38-#4 s40(E) bars @ 8" cts. (max.) top
  - 8 14-#4 s41(E) bars @ 8" cts. top
  - 9 6 pairs-#4 s36(E) bars @ 3" cts. top & bottom
  - 10 14 pairs-#4 s35(E) bars @ 3" cts. top & bottom
  - 11 19 pairs-#4 s34(E) bars @ 3" cts. ± top & bottom
  - 12 36-#4 s37(E) bars @ 24" horizontal on top mat of pier cap
  - 13 288-#4 s37(E) bars @ 24" horizontal x 6" vertical
  - 14 308-#4 s37(E) bars @ 40" horizontal x 6" vertical
  - 15 288-#4 s37(E) bars @ 24" horizontal x 6" vertical
  - 16 72-#4 s38(E) bars @ 24" horizontal x 9" vertical of pier cap
  - 17 54-#4 s38(E) bars @ 40" horizontal x 18" vertical of pier cap
  - 18 8 #4 mechanical splicers (E) for h30 (E) to h31(E) bars each face at stage construction line and 16 #4 mechanical splicers (E) for u30 (E) to h30(E) or h31(E) bars each end.
  - 19 14 #4 bar splicers (E) for h32(E) bars each face at stage construction line.
  - 20 2 #6 mechanical splicers for h34(E) to h35(E) bars each face at stage construction line and 4 #6 mechanical splicers (E) for u32(E) to h34(E) or h35(E) bars each end.
  - 21 5 #6 bar splicer assemblies for h33(E) or h39(E) bars each face at stage construction line and 4 #9 bar splicer assemblies (E) for p30(E) bars at top of pier cap at stage construction line.

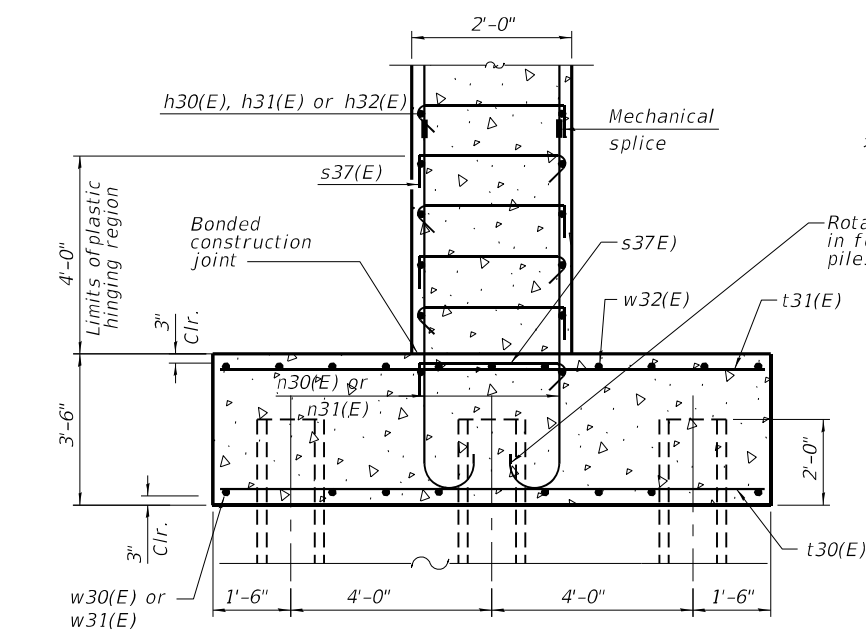
\* Limits of plastic hinge region  
 \*\* See note on standard bar splicer assembly plan detail for modification at girder 7 bearing seat.  
 \*\*\* Both hooks of s37(E) and s38(E) bars shall engage horizontal and vertical bars and 90° hook on two successive s37(E) and s38(E) bars on same vertical bar shall be alternated end to end.  
 \*\*\*\* Rotate dowel hooks in footings to miss piles.



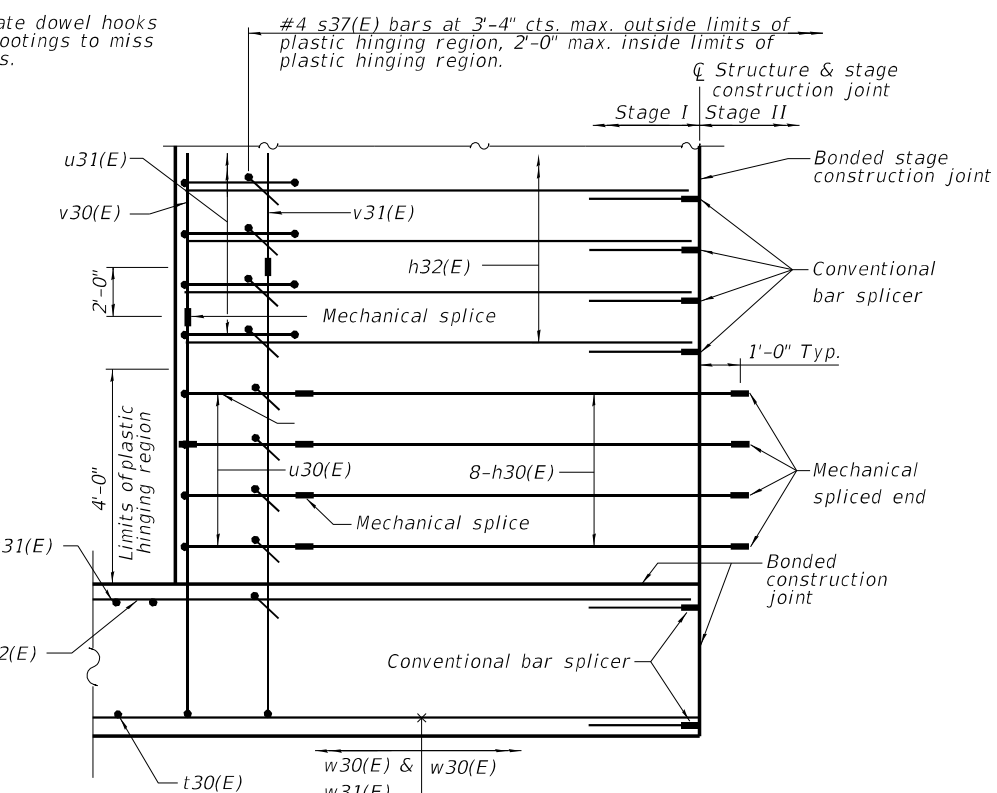
TYPICAL DETAIL AT PIER BRIDGE SEAT



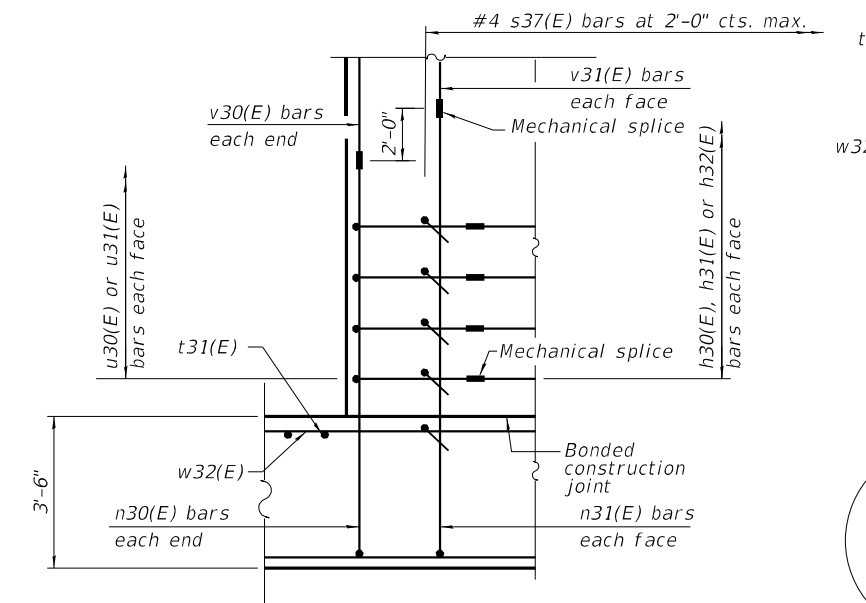
ELEVATION - DETAILS FOR TOP OF PIER



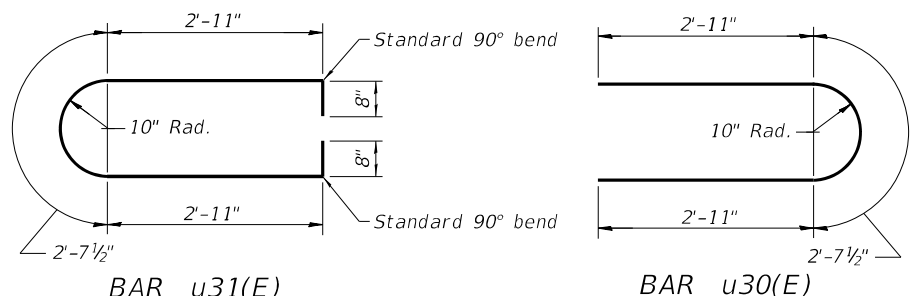
SECTION THRU PIER



ELEVATION - DETAILS FOR PIER WITH FOOTING HORIZONTAL BARS AND STAGE CONSTRUCTION



ELEVATION - DETAILS FOR PIER FOOTING



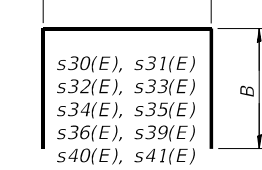
BAR u31(E)

BAR u30(E)

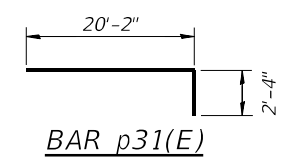
A & B DIMENSIONS

| Bar    | A     | B     |
|--------|-------|-------|
| s30(E) | 1'-4" | 2'-8" |
| s31(E) | 1'-4" | 3'-0" |
| s32(E) | 1'-4" | 3'-5" |
| s33(E) | 1'-4" | 4'-0" |
| s34(E) | 1'-4" | 4'-6" |
| s35(E) | 1'-4" | 5'-0" |
| s36(E) | 1'-4" | 5'-6" |
| s39(E) | 2'-0" | 4'-6" |
| s40(E) | 2'-0" | 5'-0" |
| s41(E) | 2'-0" | 5'-6" |

BARS



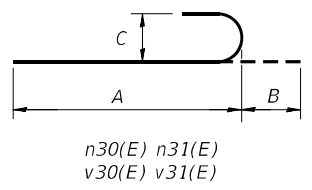
BARS



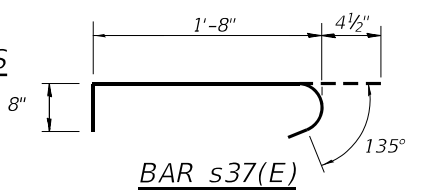
BAR p31(E)

A, B & C DIMENSIONS

| Bar    | A      | B   | C  |
|--------|--------|-----|----|
| n30(E) | 7'-7"  | 11" | 8" |
| n31(E) | 9'-7"  | 11" | 8" |
| v30(E) | 16'-3" | 11" | 8" |
| v31(E) | 14'-3" | 11" | 8" |



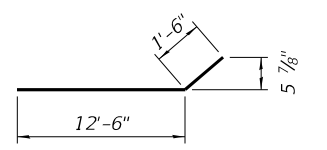
BARS



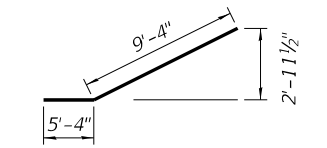
BAR s37(E)



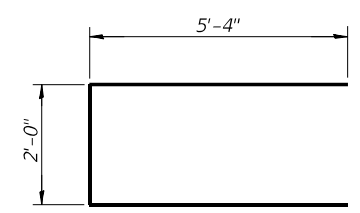
BAR s38(E)



BAR h38(E)



BAR p33(E)

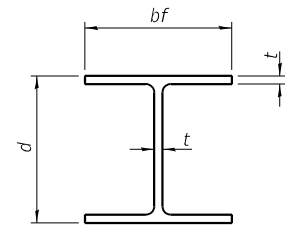


BAR u32(E)

| Cl Bearing Pier | Bearing seat elevation | Seat step in inches |
|-----------------|------------------------|---------------------|
| Girder 1        | 459.56                 |                     |
| Girder 2        | 459.73                 | 2"                  |
| Girder 3        | 459.90                 | 2 1/8"              |
| Girder 4        | 460.07                 | 2"                  |
| Girder 5        | 460.24                 | 2"                  |
| Girder 6        | 460.41                 | 2"                  |
| Girder 7        | 460.57                 | 2"                  |
| Girder 8        | 460.74                 | 2"                  |
| Girder 9        | 460.91                 | 2 1/8"              |
| Girder 10       | 461.08                 | 2"                  |
| Girder 11       | 461.25                 | 2"                  |
| Girder 12       | 461.41                 | 2"                  |
| Girder 13       | 461.58                 | 2"                  |
| Girder 14       | 461.75                 | 2"                  |

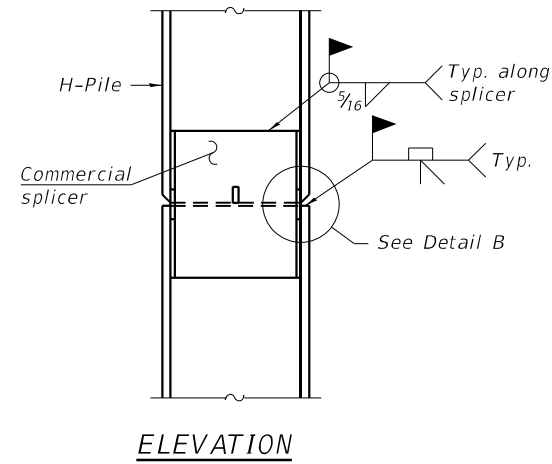
PIER BILL OF MATERIAL

| Bar                              | No. | Size    | Length  | Shape |
|----------------------------------|-----|---------|---------|-------|
| h30(E)                           | 32  | #4      | 32'-1"  | —     |
| h31(E)                           | 32  | #4      | 30'-1"  | —     |
| h32(E)                           | 56  | #4      | 33'-10" | —     |
| h33(E)                           | 14  | #6      | 43'-8"  | —     |
| h34(E)                           | 4   | #6      | 30'-6"  | —     |
| h35(E)                           | 4   | #6      | 28'-6"  | —     |
| h36(E)                           | 16  | #6      | 18'-5"  | —     |
| h37(E)                           | 6   | #6      | 12'-5"  | —     |
| h38(E)                           | 16  | #6      | 14'-0"  | —     |
| h39(E)                           | 8   | #6      | 34'-8"  | —     |
| n30(E)                           | 106 | #8      | 8'-6"   | —     |
| n31(E)                           | 108 | #8      | 10'-6"  | —     |
| p30(E)                           | 8   | #9      | 43'-8"  | —     |
| p31(E)                           | 16  | #9      | 22'-6"  | —     |
| p32(E)                           | 8   | #9      | 32'-0"  | —     |
| p33(E)                           | 12  | #6      | 14'-8"  | —     |
| p34(E)                           | 8   | #9      | 20'-2"  | —     |
| s30(E)                           | 16  | #4      | 6'-8"   | —     |
| s31(E)                           | 20  | #4      | 7'-4"   | —     |
| s32(E)                           | 36  | #4      | 8'-2"   | —     |
| s33(E)                           | 52  | #4      | 9'-4"   | —     |
| s34(E)                           | 108 | #4      | 10'-4"  | —     |
| s35(E)                           | 56  | #4      | 11'-4"  | —     |
| s36(E)                           | 24  | #4      | 12'-4"  | —     |
| s37(E)                           | 920 | #4      | 2'-9"   | —     |
| s38(E)                           | 126 | #4      | 3'-1"   | —     |
| s39(E)                           | 52  | #4      | 11'-0"  | —     |
| s40(E)                           | 38  | #4      | 12'-0"  | —     |
| s41(E)                           | 14  | #4      | 13'-0"  | —     |
| t30(E)                           | 140 | #9      | 10'-6"  | —     |
| t31(E)                           | 88  | #6      | 10'-6"  | —     |
| u30(E)                           | 32  | #4      | 8'-6"   | —     |
| u31(E)                           | 28  | #4      | 9'-10"  | —     |
| u32(E)                           | 18  | #6      | 12'-8"  | —     |
| v30(E)                           | 106 | #8      | 17'-2"  | —     |
| v31(E)                           | 108 | #8      | 15'-2"  | —     |
| w30(E)                           | 28  | #10     | 43'-4"  | —     |
| w31(E)                           | 20  | #10     | 24'-9"  | —     |
| w32(E)                           | 24  | #6      | 43'-4"  | —     |
| Cofferdam Excavation             |     | Cu. Yd. | 991     |       |
| Concrete Structures              |     | Cu. Yd. | 254.1   |       |
| Reinforcement Bars, Epoxy Coated |     | Pound   | 44,760  |       |
| Furnishing Steel Piles, HP12x63  |     | Foot    | 1107    |       |
| Driving Piles                    |     | Foot    | 1107    |       |
| Test Pile Steel, HP12x63         |     | Each    | 1       |       |
| Cofferdam (Type 2) (Location 1)  |     | Each    | 1       |       |
| Seal Coat Concrete               |     | Cu. Yd. | 178     |       |

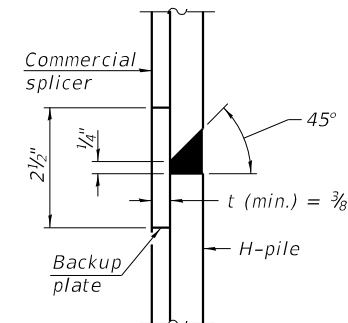


**STEEL PILE TABLE**

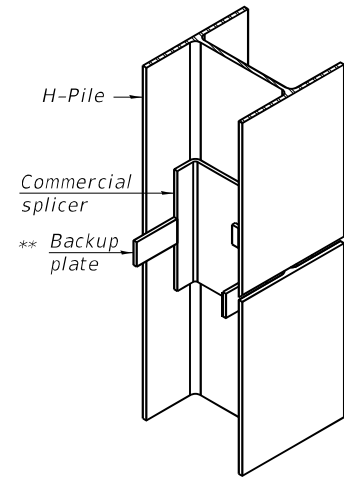
| Designation | Depth d | Flange width bf | Web and Flange thickness t | Encasement diameter A |
|-------------|---------|-----------------|----------------------------|-----------------------|
| HP 14x117   | 14 1/4" | 14 7/8"         | 1 3/16"                    | 30"                   |
| x102        | 14"     | 14 3/4"         | 1 1/16"                    | 30"                   |
| x89         | 13 3/8" | 14 3/4"         | 5/8"                       | 30"                   |
| x73         | 13 3/8" | 14 3/8"         | 1/2"                       | 30"                   |
| HP 12x84    | 12 1/4" | 12 1/4"         | 1 1/16"                    | 24"                   |
| x74         | 12 1/8" | 12 1/4"         | 5/8"                       | 24"                   |
| x63         | 12"     | 12 1/8"         | 1/2"                       | 24"                   |
| x53         | 11 3/4" | 12"             | 7/16"                      | 24"                   |
| HP 10x57    | 10"     | 10 1/4"         | 9/16"                      | 24"                   |
| x42         | 9 3/4"  | 10 1/8"         | 7/16"                      | 24"                   |
| HP 8x36     | 8"      | 8 1/8"          | 7/16"                      | 18"                   |



**ELEVATION**

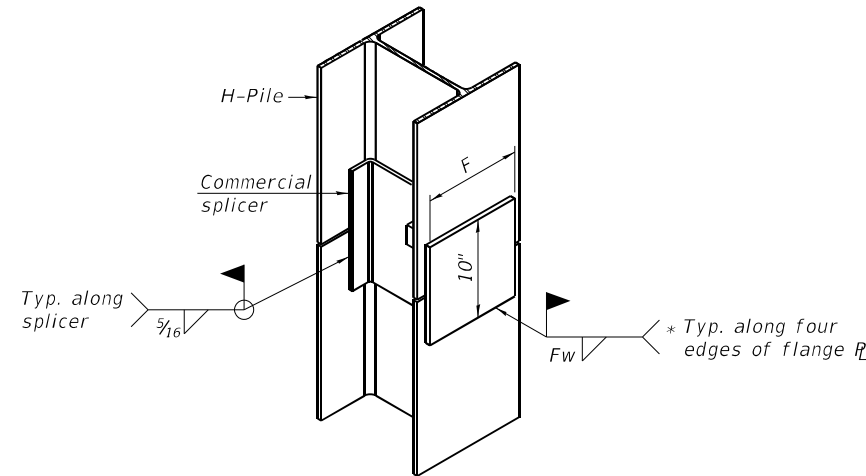


**DETAIL "B"**



**ISOMETRIC VIEW**

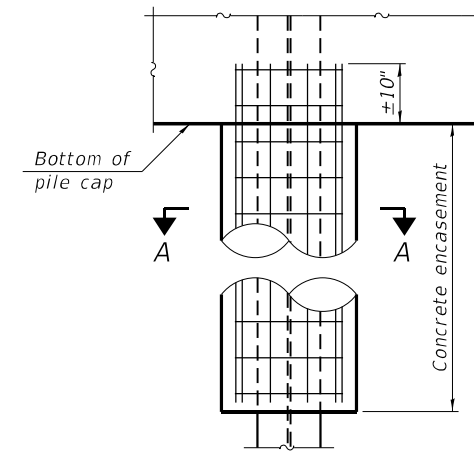
**WELDED COMMERCIAL SPLICE**



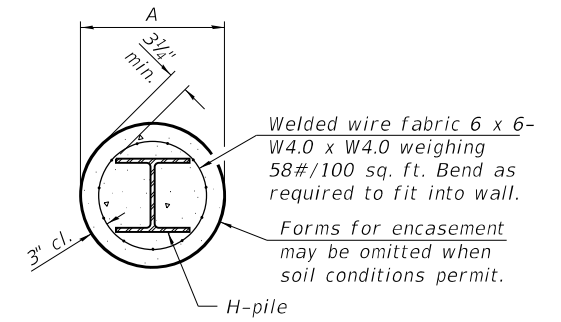
**ISOMETRIC VIEW**

**WELDED COMMERCIAL SPLICE ALTERNATE**

- \* Interrupt welds 1/4" from end of web and/or each flange.
- \*\* Remove portions of backup plates that extend outside the flanges.
- \*\*\* Weld size per pile shoe manufacturer (5/16" min.).

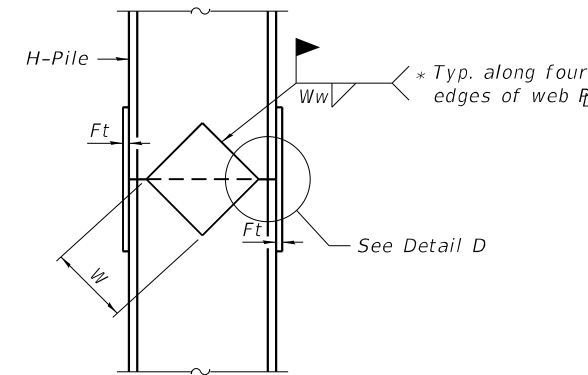


**ELEVATION**

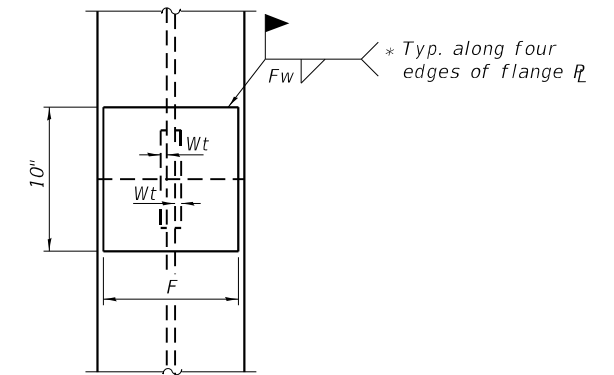


**SECTION A-A**

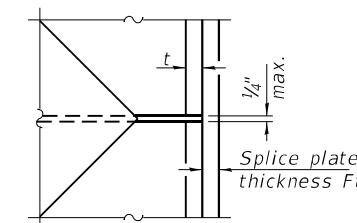
**INDIVIDUAL PILE CONCRETE ENCASUREMENT (when specified)**



**ELEVATION**



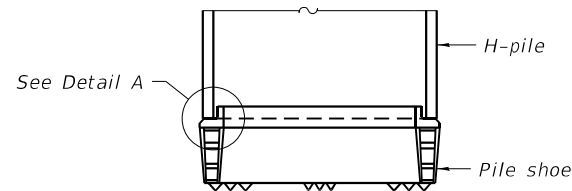
**END VIEW**



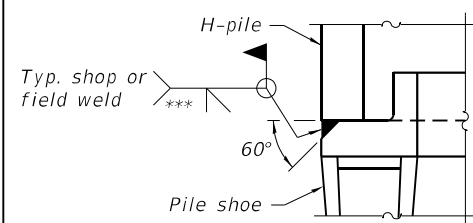
**DETAIL D**

**WELDED PLATE FIELD SPLICE**

| Designation | F       | Ft   | Fw      | W      | Wt   | Ww   |
|-------------|---------|------|---------|--------|------|------|
| HP 14x117   | 12 1/2" | 1"   | 7/8"    | 7 3/4" | 5/8" | 1/2" |
| x102        | 12 1/2" | 7/8" | 3/4"    | 7 3/4" | 5/8" | 1/2" |
| x89         | 12 1/2" | 3/4" | 1 1/16" | 7 3/4" | 5/8" | 1/2" |
| x73         | 12 1/2" | 5/8" | 9/16"   | 7 3/4" | 5/8" | 1/2" |
| HP 12x84    | 10"     | 7/8" | 1 1/16" | 6 1/2" | 5/8" | 1/2" |
| x74         | 10"     | 7/8" | 1 1/16" | 6 1/2" | 5/8" | 1/2" |
| x63         | 10"     | 5/8" | 1/2"    | 6 1/2" | 1/2" | 3/8" |
| x53         | 10"     | 5/8" | 1/2"    | 6 1/2" | 1/2" | 3/8" |
| HP 10x57    | 8"      | 3/4" | 9/16"   | 5 1/4" | 1/2" | 3/8" |
| x42         | 8"      | 5/8" | 9/16"   | 5 1/4" | 1/2" | 3/8" |
| HP 8x36     | 7"      | 5/8" | 7/16"   | 4 1/4" | 1/2" | 3/8" |



**ELEVATION**



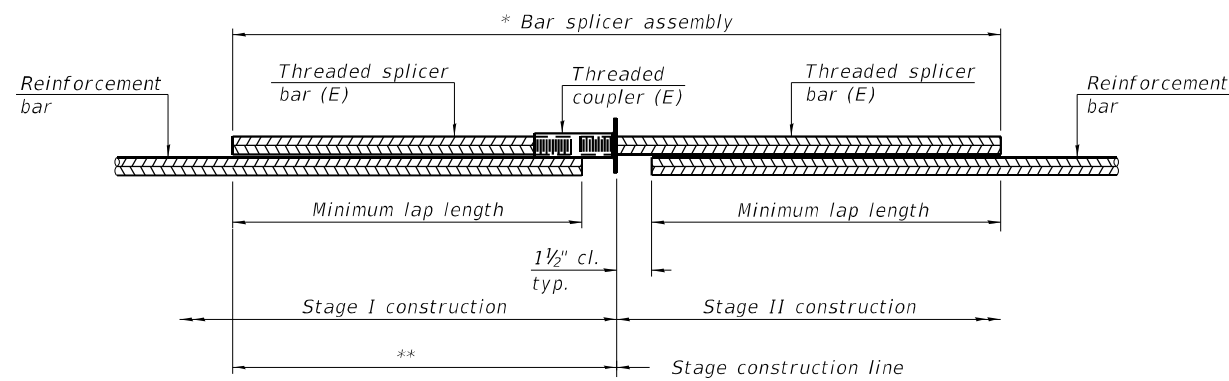
**DETAIL A**

**SHOE ATTACHMENT**

Note:  
The steel H-piles shall be according to AASHTO M270 Grade 50.

F-HP 1-1-2020

|   |                          |                |           |   |  |                           |           |        |              |           |
|---|--------------------------|----------------|-----------|---|--|---------------------------|-----------|--------|--------------|-----------|
| design firm<br>No. 184-005896<br><b>MW</b><br>Midwest Engineering<br>Associates, Inc. | USER NAME =              | DESIGNED - PJL | REVISED - | <b>STATE OF ILLINOIS<br/>DEPARTMENT OF TRANSPORTATION</b> | <b>HP PILE DETAILS<br/>STRUCTURE NO.</b> | F.A.P. RTE.               | SECTION   | COUNTY | TOTAL SHEETS | SHEET NO. |
|   | FILE NAME = 029-0069.dgn | CHECKED - AKM  | REVISED - |   |  | 317                       | (43-BR)BR | FULTON | 263          | 114       |
|   | PLOT SCALE =             | DRAWN - KRS    | REVISED - |   |  | <b>CONTRACT NO. 68D34</b> |           |        |              |           |
|   | PLOT DATE = 01/05/2021   | CHECKED - PJL  | REVISED - |   |  | ILLINOIS FED. AID PROJECT |           |        |              |           |
|   |                          |                |           |   | SHEET NO. 35 OF 43 SHEETS                |                           |           |        |              |           |

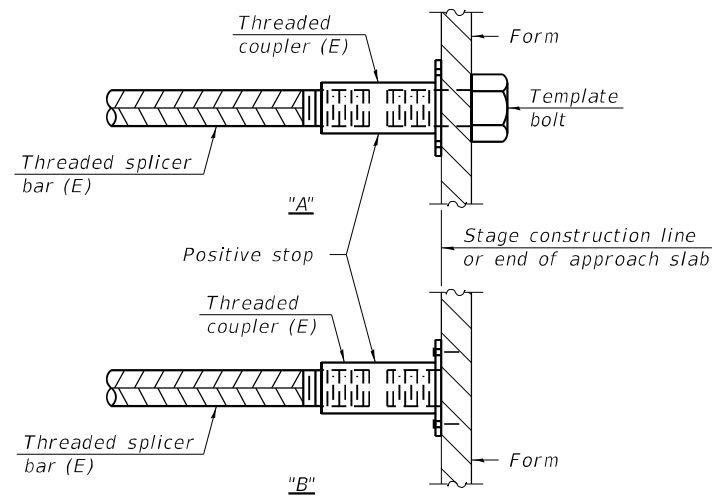


**STANDARD BAR SPLICER ASSEMBLY PLAN**  
(All components shall be provided from one supplier)

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

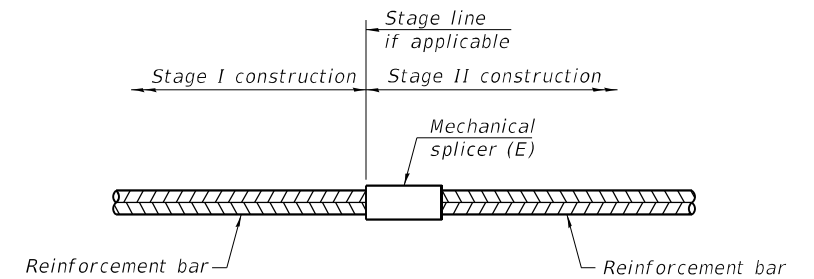
- \* Epoxy not required on Bar Splicer Assembly components used in conjunction with black bars.
- \*\* Use 6'-1" length in pier and abutment bearing seats for Girder 7 and omit horizontal top reinforcement bars in seats.
- \*\*\* Lap varies with 4" flare in each stage resulting in 2'-11" maximum lap.

| Location         | Bar size | No. assemblies required | Minimum lap length | Notes |
|------------------|----------|-------------------------|--------------------|-------|
| Deck             | #5       | 765                     | 3'-6"              |       |
| Diaphragm        | #6       | 18                      | 4'-0"              |       |
| Pier Footing     | #10      | 14                      | 6'-9"              |       |
| Pier Footing     | #6       | 12                      | 4'-4"              |       |
| Pier Stem        | #4       | 28                      | 2'-11"             |       |
| Pier Cap         | #9       | 4                       | 7'-1"              |       |
| Pier Cap         | #6       | 14                      | 4'-4"              | **    |
| Approach Footing | #5       | 80                      | 3'-2"              |       |
| Approach Slab    | #4       | 62                      | 2'-7"              | ***   |
| Abutment Caps    | #7       | 24                      | 5'-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 |
|-----------|----------|-------------------------|
| Pier Stem | #4       | 96                      |
| Pier Stem | #8       | 214                     |
| Pier Cap  | #6       | 12                      |

**Notes:**

1. Splicer bars shall be deformed with threaded ends and have a minimum 60 ksi yield strength.
2. All reinforcement shall be lapped and tied to the splicer bars.
3. Bar splicer assemblies shall be epoxy coated according to the requirements for reinforcement bars. See Section 508 of the Standard Specifications.
4. See approved list of bar splicer assemblies and mechanical splicers for alternatives.

BSD-1

1-1-2020

Design firm: no. 18400/036  
 FILE NAME: L:\Jobs\Westview Engineers\8711 IL 9 over Copperas Creek\PH\CA\03\CA\03\Sheets\029001-68034.dgn



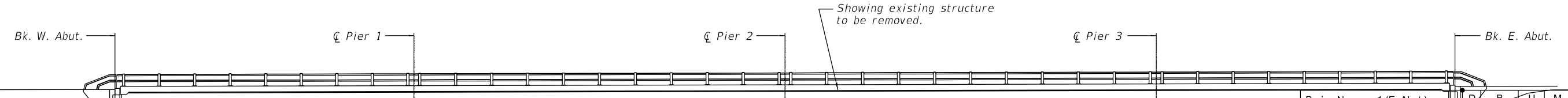
|                               |                |         |
|-------------------------------|----------------|---------|
| USER NAME = dheberling        | DESIGNED - SBC | REVISED |
| FILE NAME = 0290001-68034.dgn | CHECKED - BJJ  | REVISED |
| PLOT SCALE = 0.2" = 1' / in.  | DRAWN - DLH    | REVISED |
| PLOT DATE = 3/17/2021         | CHECKED - SBC  | REVISED |

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**BAR SPLICER ASSEMBLY AND MECHANICAL SPLICER DETAILS  
STRUCTURE NO. 029-0069**

SHEET NO. 36 OF 43 SHEETS

| F.A.P. RTE.               | SECTION   | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------------|-----------|--------|--------------|-----------|
| 317                       | (43-BR)BR | FULTON | 263          | 115       |
| CONTRACT NO. 68D34        |           |        |              |           |
| ILLINOIS FED. AID PROJECT |           |        |              |           |



| Boring No.                                   | Sta.   | Offset          | Elev.  | DEPTH (ft) | BLOW (/6") | UCS (tsf) | MOIST (%) |
|--|--------|-----------------|--------|------------|------------|-----------|-----------|
| 2 (W. Abut.)                                 | 10+410 | 55.00 ft LT PCL | 449.62 |            |            |           |           |
| No sample taken: Setting augers              |        |                 |        |            |            |           |           |
|  |        |                 | 447.62 |            |            |           |           |
| Brown SILTY CLAY LOAM                        |        |                 |        | 1          | H          | 0.5 P     | 27.0      |
| trace of sand                                |        |                 |        | 2          |            |           |           |
|  |        |                 | 442.62 |            |            |           |           |
| Brown MEDIUM SAND                            |        |                 |        | 1          | H          | 0.5 S     | 25.0      |
|  |        |                 | 440.12 |            |            |           |           |
| Brown, Grey CLAY LOAM                        |        |                 |        | 1          | H          | 0.6 B     | 36.0      |
| trace of sand                                |        |                 |        | 1          |            |           |           |
|  |        |                 | 437.62 |            |            |           |           |
| Grey SANDY CLAY LOAM                         |        |                 |        | 1          | H          | 0.3 P     | 27.0      |
|  |        |                 | 435.12 |            |            |           |           |
| Grey Medium SAND and GRAVEL                  |        |                 |        | 1          |            |           | 21.0      |
|  |        |                 | 430.12 |            |            |           |           |
| Brown Coarse SAND and GRAVEL                 |        |                 |        | 1          |            |           | 17.0      |
|  |        |                 | 425.12 |            |            |           |           |
| Brown, Grey Medium GRAVEL and 25mm LIMESTONE |        |                 |        | 1          |            |           | 10.0      |
|  |        |                 | 422.62 |            |            |           |           |
| Grey SHALE                                   |        |                 |        | 1          |            |           | 16.0      |
|  |        |                 | 421.42 |            |            |           |           |
| AUGER REFUSAL @ 8.6m                         |        |                 |        |            |            |           |           |
| End of Boring                                |        |                 |        |            |            |           |           |

| Boring No.                          | Sta.   | Offset          | Elev.  | DEPTH (ft) | BLOW (/6") | UCS (tsf) | MOIST (%) |
|-------------------------------------|--------|-----------------|--------|------------|------------|-----------|-----------|
| 5 (Pier)                            | 10+445 | 16.40 ft RT PCL | 450.86 |            |            |           |           |
| Brown SILTY LOAM                    |        |                 |        |            |            |           |           |
|                                     |        |                 | 441.86 |            |            |           |           |
|                                     |        |                 | 439.36 |            |            |           |           |
| Light Brown/Brown SILTY LOAM        |        |                 |        |            |            |           |           |
|                                     |        |                 | 437.62 |            |            |           |           |
| Grey SILTY LOAM                     |        |                 |        |            |            |           |           |
|                                     |        |                 | 435.12 |            |            |           |           |
| Grey Medium SAND and GRAVEL         |        |                 |        |            |            |           |           |
|                                     |        |                 | 434.36 |            |            |           |           |
| Grey Fine-Med SAND                  |        |                 |        |            |            |           |           |
|                                     |        |                 | 429.86 |            |            |           |           |
| Brown, Grey Coarse SAND and GRAVEL  |        |                 |        |            |            |           |           |
|                                     |        |                 | 421.86 |            |            |           |           |
| Grey SHALEY CLAY                    |        |                 |        |            |            |           |           |
|                                     |        |                 | 419.36 |            |            |           |           |
| Grey SHALEY CLAY/SHALE              |        |                 |        |            |            |           |           |
|                                     |        |                 | 418.36 |            |            |           |           |
| Black COAL                          |        |                 |        |            |            |           |           |
| Borehole continued with rock coring |        |                 |        |            |            |           |           |

| Boring No.  | Sta.     | Offset          | Elev.  | DEPTH (ft) | BLOW (/6") | UCS (tsf) | MOIST (%) |
|---|----------|-----------------|--------|------------|------------|-----------|-----------|
| 4 (Pier)  | 10+458.5 | 56.10 ft RT PCL | 438.26 |            |            |           |           |
| Brown Medium to Coarse SAND and GRAVEL                        |          |                 |        |            |            |           |           |
| 0-5.0m Similar soils as B#3<br>No moistures or N values taken |          |                 |        |            |            |           |           |
|   |          |                 | 421.76 |            |            |           |           |
| Grey CLAY SHALE   |          |                 |        |            |            |           |           |
|   |          |                 | 421.19 |            |            |           |           |
| Grey CLAY SHALE   |          |                 |        |            |            |           |           |
|   |          |                 | 416.76 |            |            |           |           |
| Black COAL  |          |                 |        |            |            |           |           |
|   |          |                 | 413.26 |            |            |           |           |
| Borehole continued with rock coring                           |          |                 |        |            |            |           |           |

| Boring No.                             | Sta.     | Offset          | Elev.  | DEPTH (ft) | BLOW (/6") | UCS (tsf) | MOIST (%) |
|--|----------|-----------------|--------|------------|------------|-----------|-----------|
| 3 (Pier)                               | 10+460.5 | 28.00 ft LT PCL | 438.69 |            |            |           |           |
| Brown Medium to Coarse SAND            |          |                 |        |            |            |           |           |
|  |          |                 | 427.19 |            |            |           |           |
| Brown Medium to Coarse SAND and GRAVEL |          |                 |        |            |            |           |           |
|  |          |                 | 421.19 |            |            |           |           |
| Grey CLAY SHALE                        |          |                 |        |            |            |           |           |
|  |          |                 | 416.76 |            |            |           |           |
| Grey CLAY SHALE                        |          |                 |        |            |            |           |           |
|  |          |                 | 413.26 |            |            |           |           |
| Borehole continued with rock coring    |          |                 |        |            |            |           |           |

| Boring No.                      | Sta.       | Offset          | Elev.  | DEPTH (ft) | BLOW (/6") | UCS (tsf) | MOIST (%) |
|---------------------------------|------------|-----------------|--------|------------|------------|-----------|-----------|
| 1 (E. Abut.)                    | 10+451.755 | 35.40 ft LT PCL | 465.98 |            |            |           |           |
| No sample taken: Setting augers |            |                 |        |            |            |           |           |
|                                 |            |                 | 464.48 |            |            |           |           |
| Brown GRAVEL LOAM               |            |                 |        |            |            |           |           |
|                                 |            |                 | 461.98 |            |            |           |           |
| Brown, Light Brown CLAY LOAM    |            |                 |        |            |            |           |           |
|                                 |            |                 | 454.48 |            |            |           |           |
| Brown, Grey SANDY CALY LOAM     |            |                 |        |            |            |           |           |
|                                 |            |                 | 451.98 |            |            |           |           |
| Grey CLAY LOAM                  |            |                 |        |            |            |           |           |
|                                 |            |                 | 449.48 |            |            |           |           |
| Grey SILTY LOAM                 |            |                 |        |            |            |           |           |
|                                 |            |                 | 446.98 |            |            |           |           |
| Dark Grey SHALEY CLAY           |            |                 |        |            |            |           |           |
|                                 |            |                 | 441.98 |            |            |           |           |
| Dark Grey SHALE                 |            |                 |        |            |            |           |           |
|                                 |            |                 | 438.48 |            |            |           |           |
| AUGER REFUSAL @ 8.38m           |            |                 |        |            |            |           |           |
| End of Boring                   |            |                 |        |            |            |           |           |

**SOIL BORING LOGS**  
**US ROUTE 24 / IL 9**  
**OVER COPPERAS CREEK**  
**FAP RTE 317 SECTION (43-BR)BR**  
**FULTON COUNTY**  
**STA. 542+73.91**  
**STRUCTURE NUMBER 029-0069**

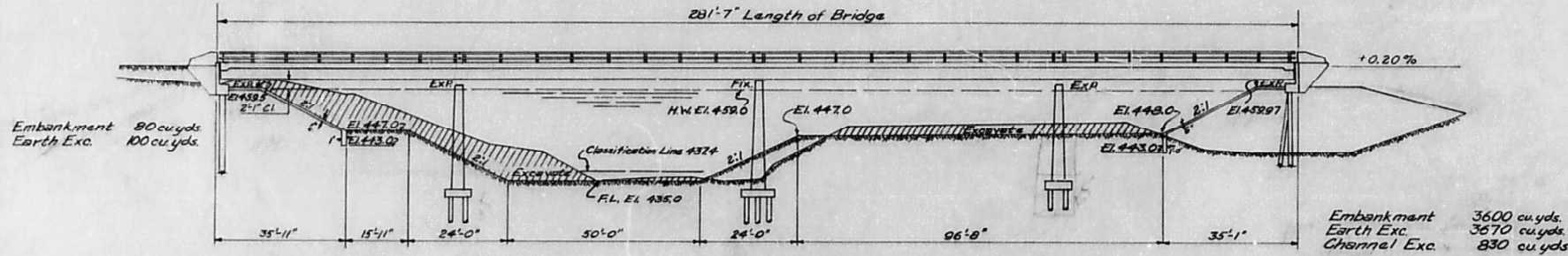


BM #85 on S. Wing of East Abut. of Bridge Rt. Sta 999+25 El. 461.37  
 BM #85B Vert. Nail in 36" slump 2H. Rt. Sta. 1004+45 El. 456.87  
 Existing Structure: 2 Pony Truss Spans @ 80'  
 2 RC Deck Girder Spans @ 45'  
 1 Steel Thru Truss @ 24.5'  
 To be removed by Bridge Contractor after proposed  
 Bridge is open to traffic.  
 Salvage: All Structural Steel for Re-erection

STATE OF ILLINOIS  
 DEPARTMENT OF PUBLIC WORKS & BUILDINGS  
 DIVISION OF HIGHWAYS

|                    |         |          |                  |           |
|--------------------|---------|----------|------------------|-----------|
| ROUTE NO.          | SECTION | COUNTY   | TOTAL SHEETS     | SHEET NO. |
| 43 FR              | 43 BR   | Fulton   | 7                | 4         |
| F.A. PROJ. F-33(B) |         | ILLINOIS | FED. AID PROJECT |           |

SHEET NO. 1  
6 SHEETS



ELEVATION  
 Scale 1/2" = 1'-0"

STATION 1000+00  
 BUILT 195 BY  
 STATE OF ILLINOIS  
 S.B.I. RT. 9 SEC. 43BR  
 F.A. PROJ. F-33(B)  
 LOADING H20-S16

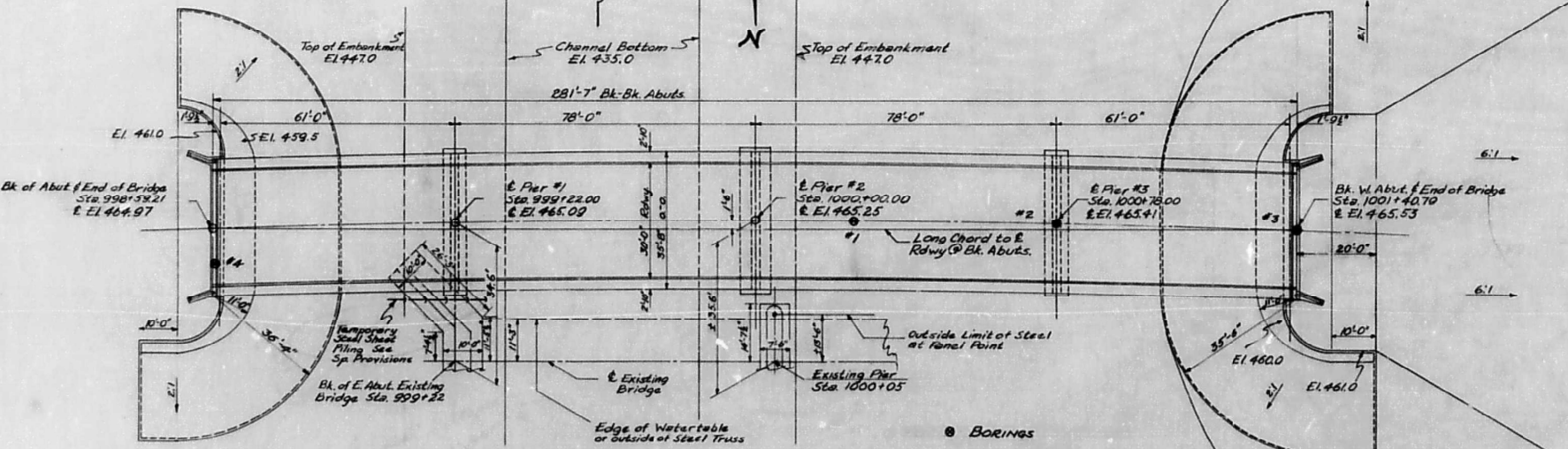
NAME & DATA  
 See Standard 2113

WATERWAY INFORMATION

|                  |                 |
|------------------|-----------------|
| Drainage Area    | 80,250 Acres    |
| Character        | Rolling & Hilly |
| Required Opening | 3,000 Sq. Ft.   |
| Present Opening  | 4,270 Sq. Ft.   |
| Proposed Opening | 3,440 Sq. Ft.   |

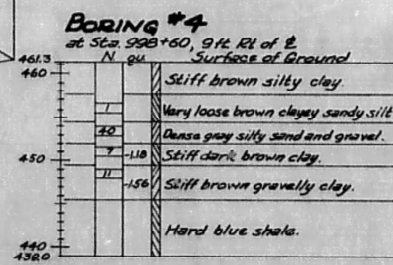
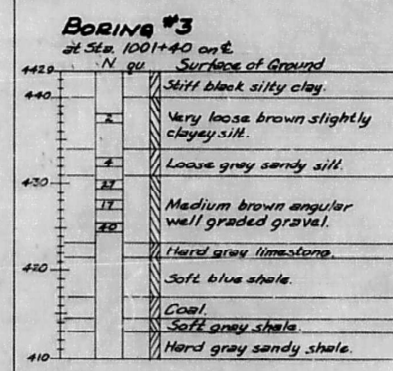
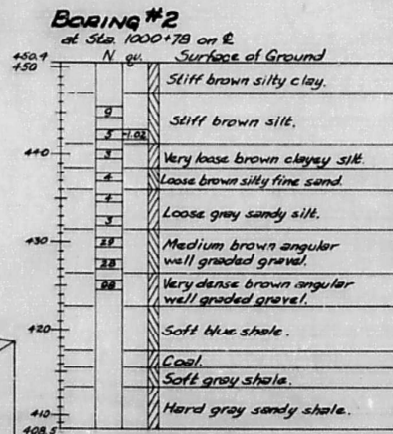
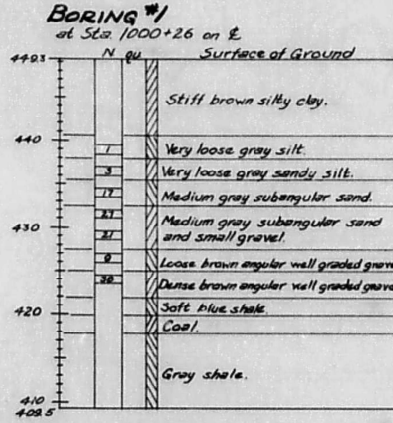
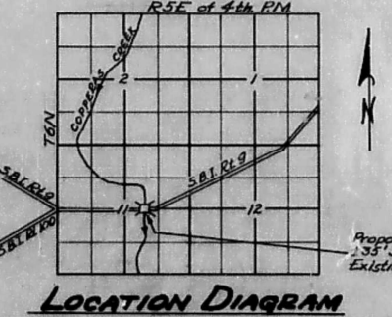
STRESSES

|                            |
|----------------------------|
| $f_c = 14,000$ psi Super   |
| $f_c = 800$ psi Sub        |
| $f_s = 20,000$ psi Reinft. |
| $f_s = 18,000$ psi Struct. |
| $n = 10$                   |



HORIZONTAL CURVE DATA

|                         |
|-------------------------|
| PI. = 996+29.17         |
| P.C.C. = 988+10.20      |
| P.T. = 1004+39.73       |
| $\Delta = 14^\circ-13'$ |
| $T = 815.97'$           |
| $R = 6567.26'$          |
| $D = 0^\circ-52.3'$     |
| $L = 1629.53'$          |
| $E = 50.85'$            |
| $SE = 0.0214/11$        |



BORING DATA  
 LOADING H20-S16-44

GENERAL NOTES

Class X Concrete shall be used throughout except as noted.  
 Class A Concrete shall be used in Piers.  
 Handrail Concrete shall be used in End Posts.  
 The Concrete floor slabs shall be finished in accordance with Art. 51.14(a) of the Std. Specs.  
 Slope Wall shall be reinforced with welded wire fabric 6"x6" mesh #4 wire, weighing 58 lbs. per 100 square feet. Layout of slope wall may be varied to suit ground conditions in the field as directed by the Engineer.  
 Rivets #8, open holes #6 unless noted. Field connections riveted unless noted.  
 Railings shall be adjusted to true alignment after curbs have been poured.  
 All rollers, rockers, bearing Rs, lead Rs, pintles and anchor bolts shall be fabricated and set in accordance with Art. 51.14 of the Std. Specs. Estimated wpt 13,425 lbs. These items are included for payment as structural steel.  
 Anchor bolts shall be set before riveting diaphragms over supports.  
 Expansion guards shall be fabricated and erected in accordance with Art. 51.12 (6) of the Std. Specs. Est. wgt. 1705 lbs. All surfaces of expansion guards inaccessible after erection shall receive 2 shop coats of red lead paint except anchor straps shall remain unpainted.  
 Welding shall comply with Art. 55.4 of the Std. Specs.  
 Except as otherwise provided, all structural steel shall receive one shop coat of red lead paint and two field coats of aluminum paint. See Arts. 57.1 to 57.5 inclusive, of the Std. Specs. All paint shall be furnished and applied by the contractor involved.  
 The contractor shall drive five test piles (impermanent location) one each in abutments and piers before ordering remainder of piles. Boring data are shown on this drawing only as a guide to bidders in estimating soil conditions which may be encountered in the work.

TOTAL BILL OF MATERIAL - SEC 43BR

| ITEM                        | UNIT     | SUPER   | SUB    | TOTAL   |
|-----------------------------|----------|---------|--------|---------|
| Class X Concrete            | Cu. Yds. | 264.6   | 55.2   | 319.8   |
| Class A Concrete            | Cu. Yds. | —       | 398.9  | 398.9   |
| Handrail Concrete           | Cu. Yds. | 1.8     | —      | 1.8     |
| Reinforcement Bars          | Lbs.     | 48,710  | 18,340 | 67,050  |
| Structural Steel            | Lbs.     | 306,880 | —      | 306,880 |
| Metal Handrail              | Lin. Ft. | 562.0   | —      | 562.0   |
| Slope Wall                  | Sq. Yds. | —       | —      | 87.5    |
| Class A Excavation for Str. | Cu. Yds. | —       | 296    | 296     |
| Class B Excavation for Str. | Cu. Yds. | —       | 344    | 344     |
| Channel Excavation          | Cu. Yds. | —       | —      | 1,522   |
| Steel Piles                 | Lin. Ft. | —       | 1260   | 1260    |
| Test Piles (Steel)          | Ea.      | —       | 5      | 5       |
| Name Plate                  | Ea.      | ONE     | —      | ONE     |
| Tree Removal                | Acres    | —       | —      | 0.4     |
| Earth Excavation            | Cu. Yds. | —       | —      | 3770    |
| Removal of Existing Struct. | Ea.      | —       | —      | 1       |
| Temporary Sheet Piling      | Sq. Ft.  | —       | —      | 500     |

SECTION 43FR

|                  |          |        |        |
|------------------|----------|--------|--------|
| Structural Steel | Lbs.     | 306880 | 306880 |
| Metal Handrail   | Lin. Ft. | 562.0  | 562.0  |

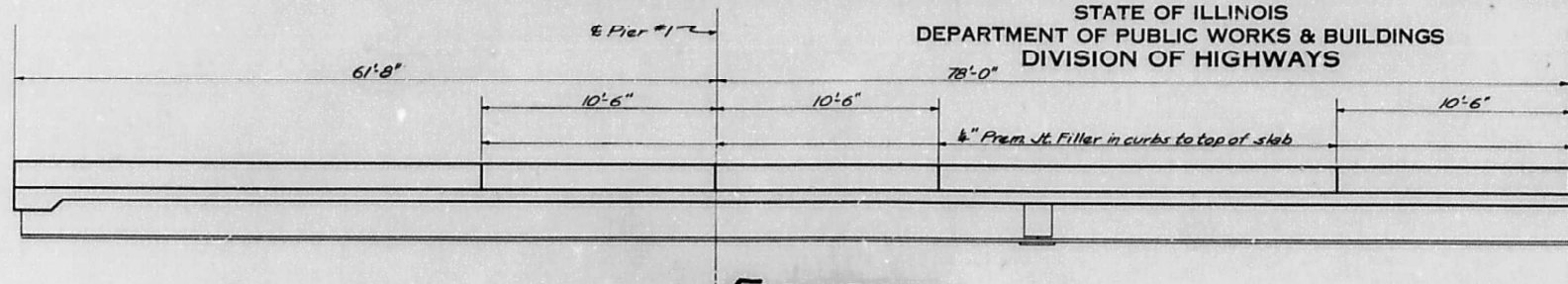
GENERAL PLAN & ELEVATION  
 COPPERAS CREEK BRIDGE  
 S.B.I. RT. 9 SEC. 43 BR-FR  
 FULTON COUNTY  
 STATION 1000+00

|                          |            |           |
|--------------------------|------------|-----------|
| USER NAME =              | DESIGNED - | REVISED - |
| FILE NAME = 029-0069.dgn | CHECKED -  | REVISED - |
| PLOT SCALE =             | DRAWN -    | REVISED - |
| PLOT DATE =              | CHECKED -  | REVISED - |

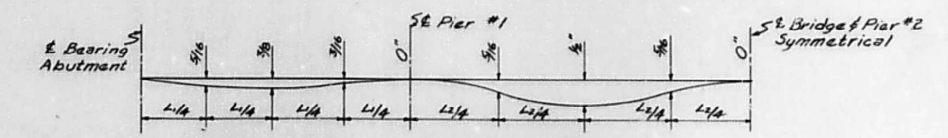


STATE OF ILLINOIS  
DEPARTMENT OF PUBLIC WORKS & BUILDINGS  
DIVISION OF HIGHWAYS

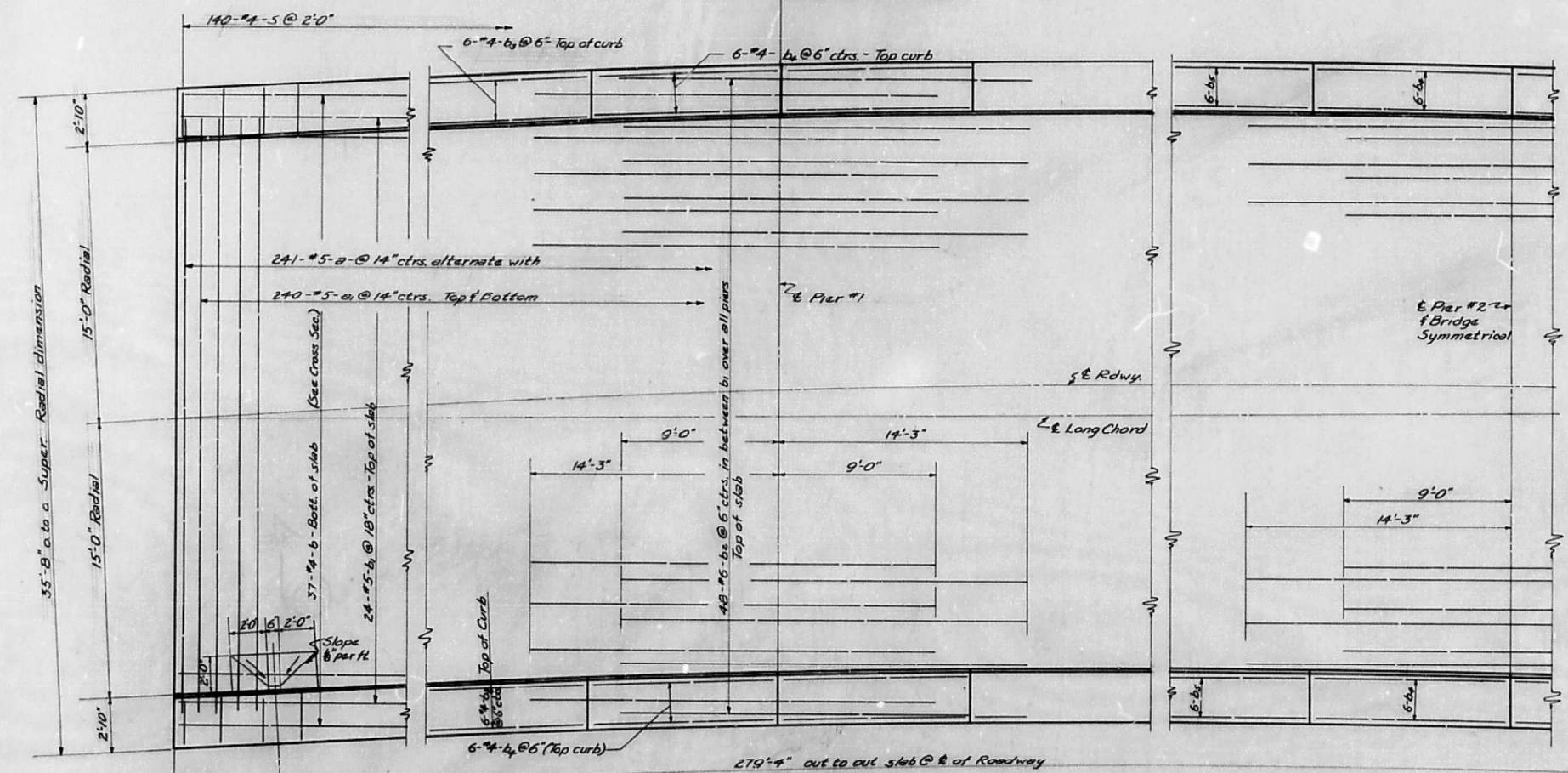
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|-----------------------|--------------|----------|------------------|-----------|-------------------------|
| ROUTE NO.             | SECTION      | COUNTY   | TOTAL SHEETS     | SHEET NO. | SHEET NO. 2<br>6 SHEETS |
| S.A. 9                | 43FR<br>43BR | Fulton   | 7<br>37          | 5<br>8    |                         |
| FED. ROAD DIST. NO. 7 |              | ILLINOIS | FED. AID PROJECT |           |                         |



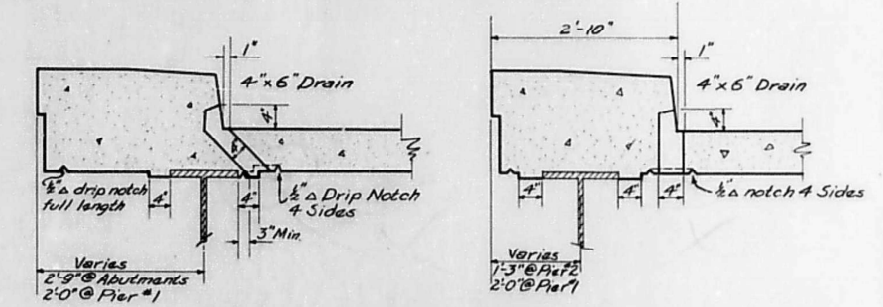
**ELEVATION**



**DEAD LOAD DEFLECTIONS**



**PLAN**

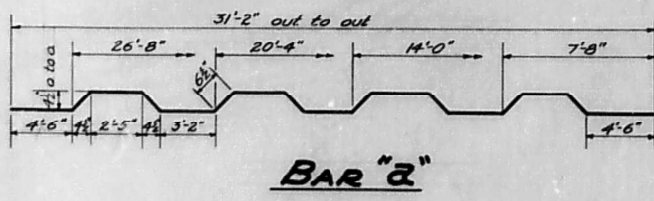


**FLOOR DRAIN DETAIL**

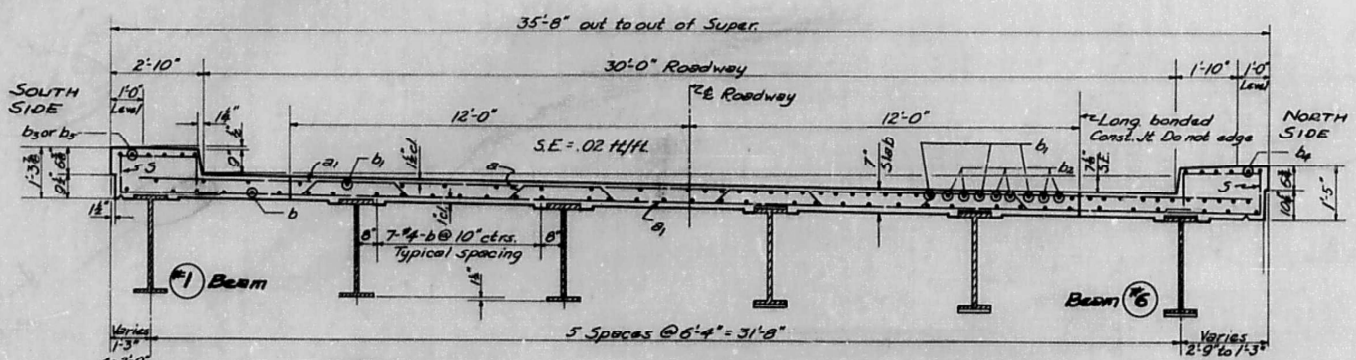
**METHOD OF DETERMINING FILLET HEIGHT "f"**

After all structural steel has been erected, elevations of the top flanges of the beams shall be taken at intervals not to exceed 10ft. From these elevations subtract the increment of deflection for these points, determined from the D.L. deflection diagram. The elevations so obtained subtracted from the theoretical grade elevations, minus floor thickness, equals the fillet heights above top of beam.

| BILL OF MATERIALS               |     |      |        |       |
|---------------------------------|-----|------|--------|-------|
| BAR                             | NO. | SIZE | LENGTH | SHAPE |
| a                               | 241 | #5   | 32'-6" | ~     |
| 21                              | 480 | #5   | 35'-0" | ~     |
| b                               | 407 | #4   | 26'-0" | ~     |
| b <sub>1</sub>                  | 253 | #5   | 26'-0" | ~     |
| b <sub>2</sub>                  | 194 | #6   | 23'-3" | ~     |
| b <sub>3</sub>                  | 48  | #4   | 26'-0" | ~     |
| b <sub>4</sub>                  | 72  | #4   | 10'-0" | ~     |
| b <sub>5</sub>                  | 48  | #4   | 29'-0" | ~     |
| s                               | 280 | #4   | 8'-1"  | ~     |
| Class "X" Concrete Cu Yds 264.6 |     |      |        |       |
| Reinforcement Bars Lbs 48,410   |     |      |        |       |
| Structural Steel Lbs 306880     |     |      |        |       |

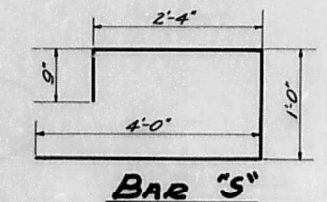


**BAR "2"**



**SECTION @ 2 SPANS**

**TYPICAL CROSS SECTION**



**BAR "3"**

DESIGNED *Manuel Mucador*  
CHECKED *Roman*  
DRAWN *MW J. Robinson*  
CHECKED *G.P.*

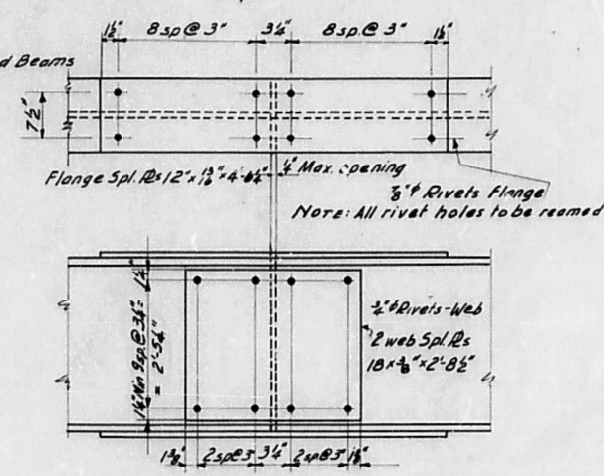
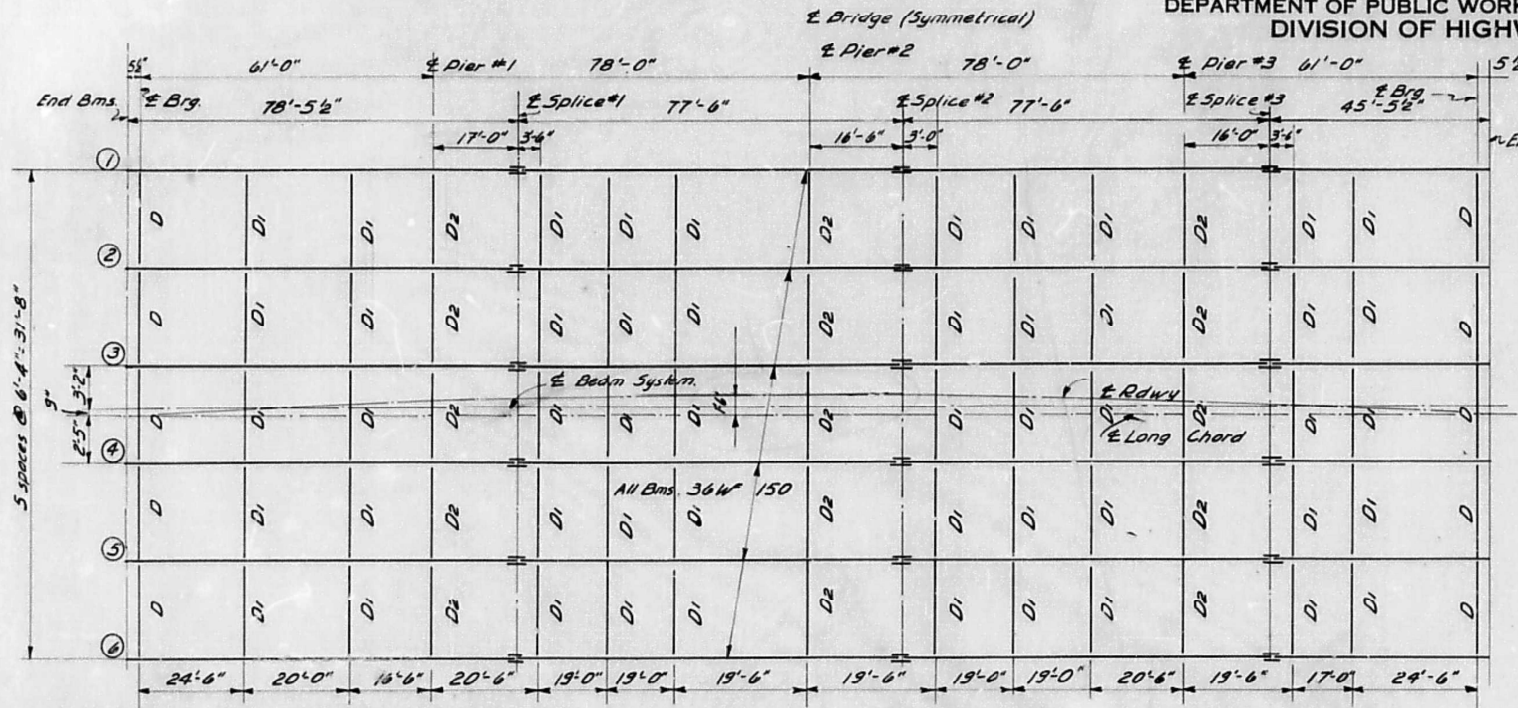
FEB. 20 1956  
EXAMINED *M. Mucador*  
PASSED *[Signature]*  
APPROVED *R.H. Bartelmann*  
CHIEF HIGHWAY ENGINEER

**SUPERSTRUCTURE  
COPPERAS CREEK BRIDGE  
S.B.I. Rt. 9 SEC 43-BR-FR  
FULTON COUNTY  
STA. 1000+00**



STATE OF ILLINOIS  
DEPARTMENT OF PUBLIC WORKS & BUILDINGS  
DIVISION OF HIGHWAYS

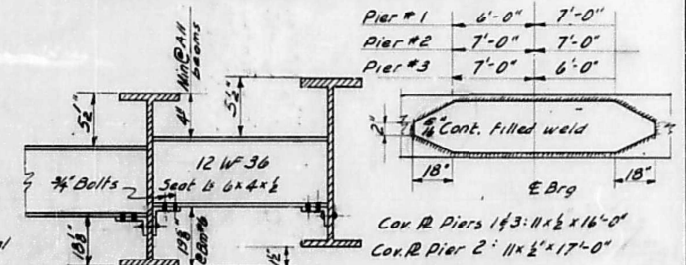
|           |         |        |              |           |           |
|-----------|---------|--------|--------------|-----------|-----------|
| ROUTE NO. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. | SHEET NO. |
| 43FR      | 43BR    | Fulton | 37           | 6         | 6         |
| SHEETS    |         |        |              |           |           |



| BEAM          | 1      | 2      | 3      | 4      | 5      | 6      |
|---------------|--------|--------|--------|--------|--------|--------|
| E. Arg.       | 464.73 | 464.60 | 464.47 | 464.31 | 464.21 | 464.08 |
| E. Abut.      |        |        |        |        |        |        |
| Pier #1       | 464.81 | 464.68 | 464.50 | 464.44 | 464.32 | 464.19 |
| Splice #1     | 464.83 | 464.70 | 464.58 | 464.46 | 464.34 | 464.21 |
| Pier #2       | 464.95 | 464.82 | 464.70 | 464.50 | 464.40 | 464.36 |
| Splice #2     | 464.99 | 464.86 | 464.74 | 464.62 | 464.50 | 464.37 |
| Pier #3       | 465.13 | 465.01 | 464.88 | 464.76 | 464.64 | 464.51 |
| Splice #3     | 465.17 | 465.04 | 464.92 | 464.80 | 464.68 | 464.55 |
| E. Arg. WADUT | 465.26 | 465.13 | 465.01 | 464.89 | 464.77 | 464.64 |

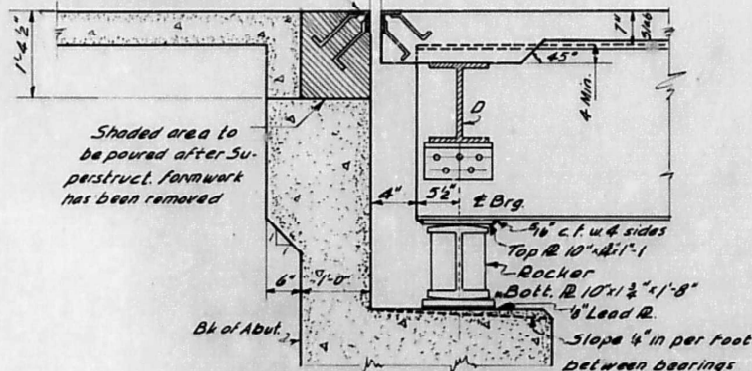
DETAIL OF SPLICE PLATES

ELEVATION @ TOP OF BEAMS

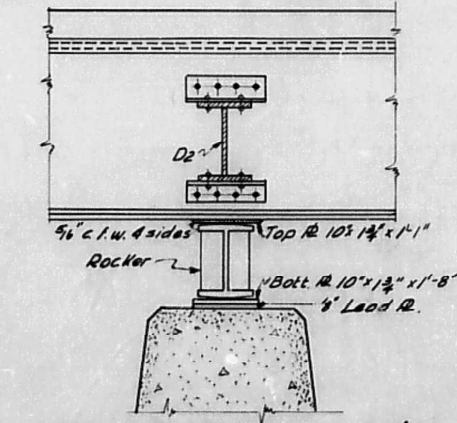


DIAPHRAM D

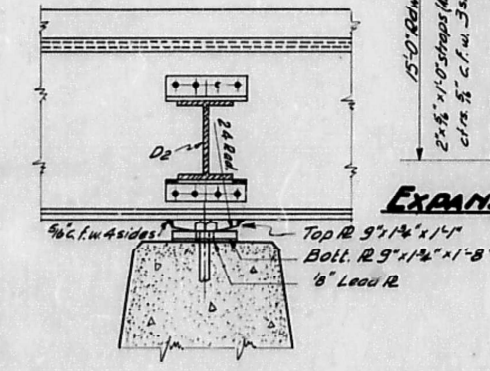
PLAN  
7/8" holes @ 12 ctrs. for 3/8" bolts. All bolts shall be burned sawed or clipped off with back of angles after forms are removed.  
1/2" @ 50°F



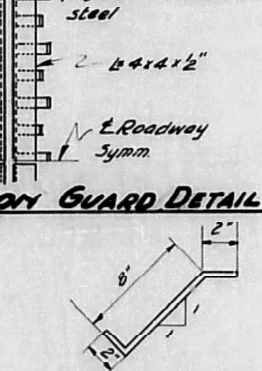
SECTION AT ABUTMENTS



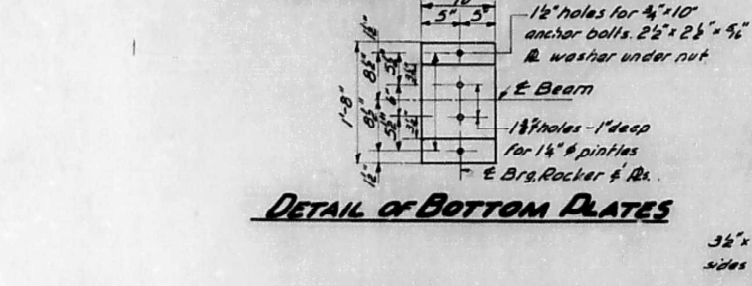
EXPANSION PIERS 1 & 3



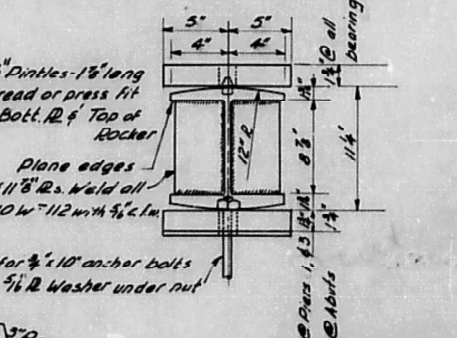
FIXED PIER #2



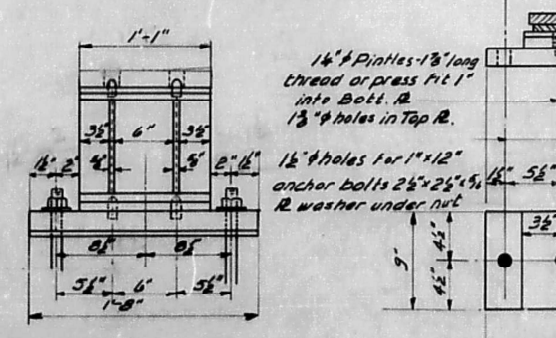
STRAP DETAIL



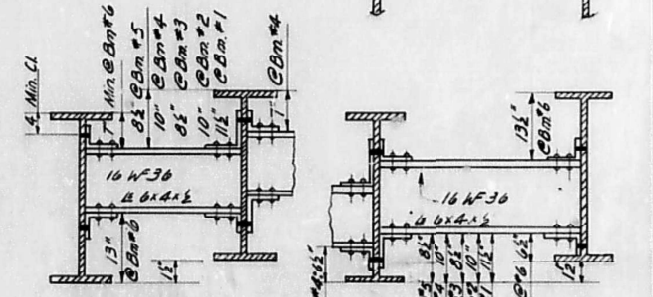
DETAIL OF BOTTOM PLATES



ROCKER DETAILS



DETAIL OF PLATES PIER #2



DIAPHRAM D1

DIAPHRAM D2

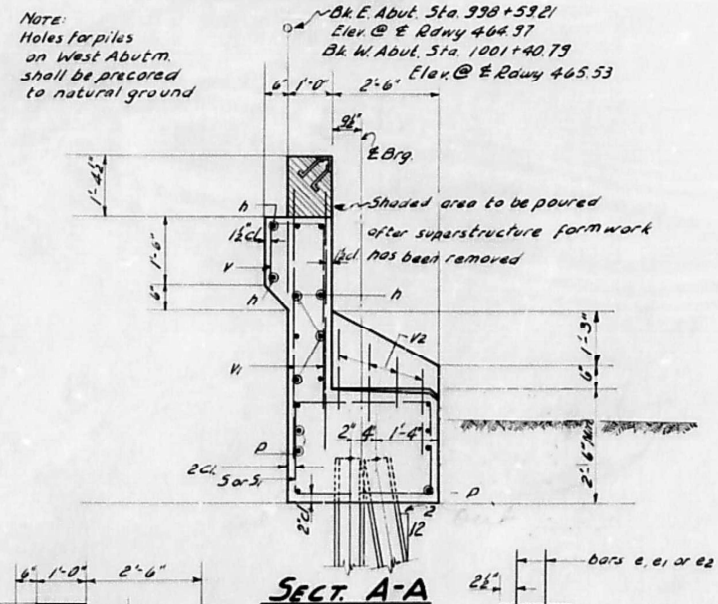
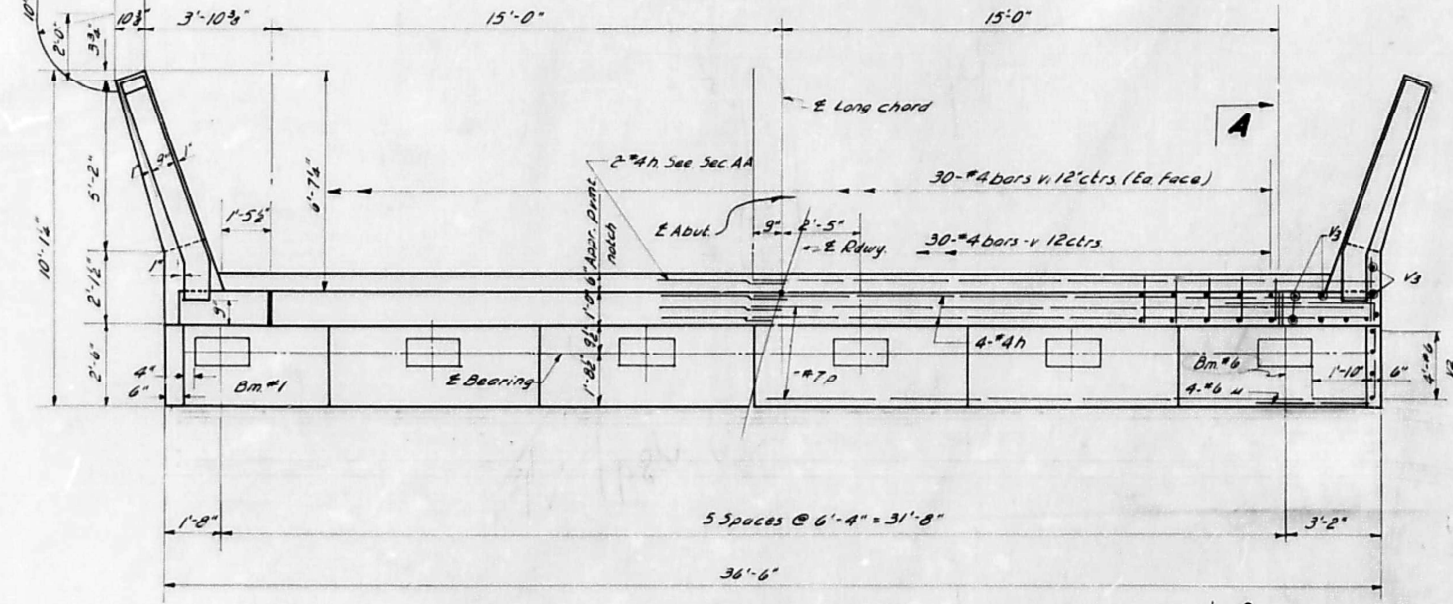
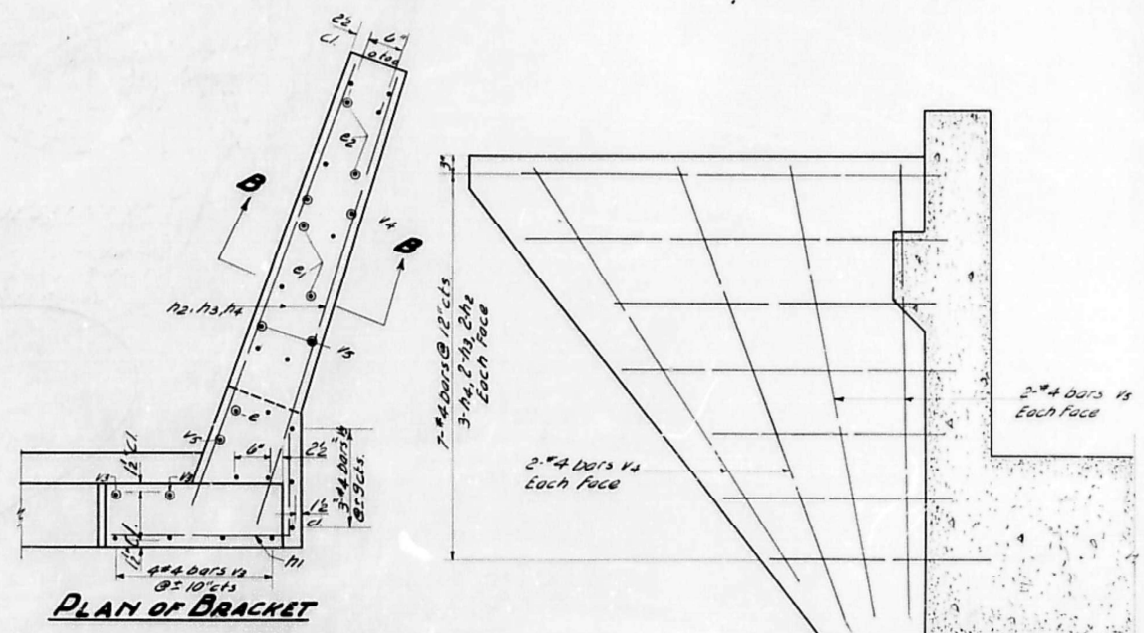
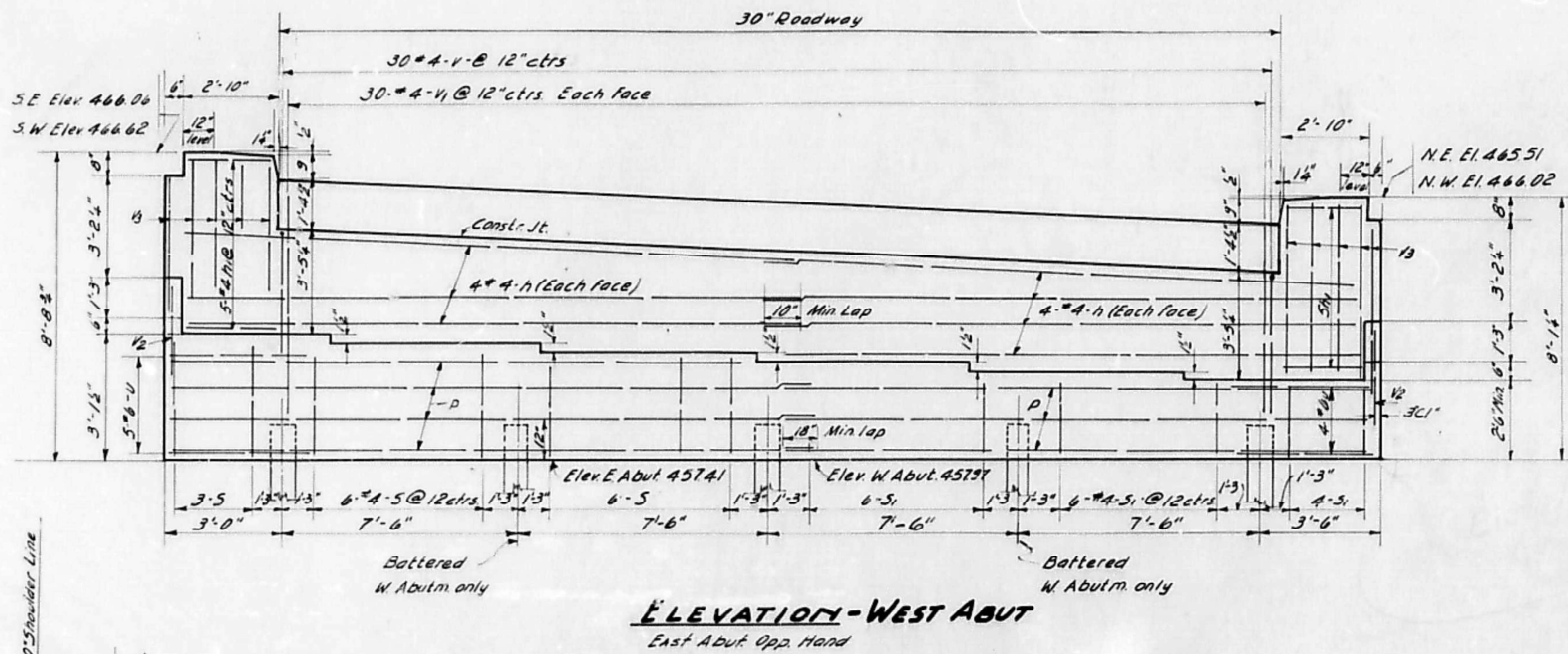
SECTION AT ABUTMENTS  
Shaded area to be poured after Superstruct. formwork has been removed.  
1/2" @ 50°F  
Slope 4" in per foot between bearings.  
12" holes for 4" x 10" anchor bolts. 2 1/2" x 2 1/2" x 5/8" R washer under nut.  
18" holes 1" deep for 1 1/2" pinholes & R.  
1 1/2" pinholes 1 1/2" long thread or press fit into bott. R & Top of Rocker.  
15" holes for 3/8" x 10" anchor bolts. 2 1/2" x 2 1/2" x 5/8" R washer under nut.

|          |                |
|----------|----------------|
| DESIGNED | Manuel Mercado |
| CHECKED  | F. Mercado     |
| DRAWN    | F. Mercado     |
| CHECKED  |                |

|          |                |
|----------|----------------|
| EXAMINED | M. Domina      |
| PASSED   |                |
| APPROVED | R.H. Bostelman |

STRUCTURAL STEEL  
SBI Rt-9 Sec. 43-BR-FR  
FULTON COUNTY  
STA. 1000+00

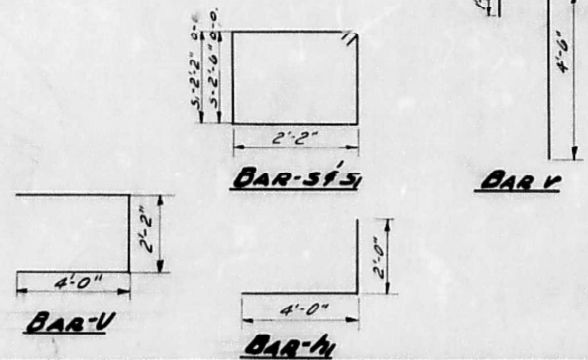




**BILL OF MATERIAL - 2 ABUTMENTS**

| Bar                | No  | Size | Length | Shape  |      |
|--------------------|-----|------|--------|--------|------|
| h                  | 40  | #4   | 18'-6" |        |      |
| h1                 | 20  | #4   | 6'-0"  |        |      |
| h2                 | 16  | #4   | 6'-6"  |        |      |
| h3                 | 16  | #4   | 5'-0"  |        |      |
| h4                 | 24  | #4   | 3'-0"  |        |      |
|                    |     |      |        |        |      |
| p                  | 28  | #7   | 19'-0" |        |      |
| s                  | 30  | #4   | 10'-1" |        |      |
| s1                 | 32  | #4   | 3'-5"  |        |      |
| u                  | 18  | #6   | 10'-2" |        |      |
|                    |     |      |        |        |      |
| v                  | 60  | #4   | 6'-9"  |        |      |
| v1                 | 120 | #4   | 6'-0"  |        |      |
| v2                 | 16  | #6   | 2'-6"  |        |      |
| v3                 | 36  | #4   | 5'-3"  |        |      |
| v4                 | 16  | #4   | 8'-3"  |        |      |
| v5                 | 16  | #4   | 8'-0"  |        |      |
|                    |     |      |        |        |      |
| Class X Concrete   |     |      |        | Cu Yds | 55.2 |
| Reinforcement Bars |     |      |        | Lb     | 4180 |
| Steel Piles        |     |      |        | Lin Ft | 240  |
| Test Piles-Steel   |     |      |        | Eq     | two  |

**PILE DATA**  
Min Capacity 30 Tons/pile  
Est. Lgth. 15 Ft @ E. Abut  
45 Ft @ W. Abut  
No. Piles 10 (2 Abut)  
Type 8" B.P. 36"



DESIGNED: Manuel Mercado  
EXAMINED: [Signature]  
CHECKED: [Signature]  
DRAWN: [Signature]  
APPROVED: R.L. Bantolmeza  
DATE: FEB 20 1956

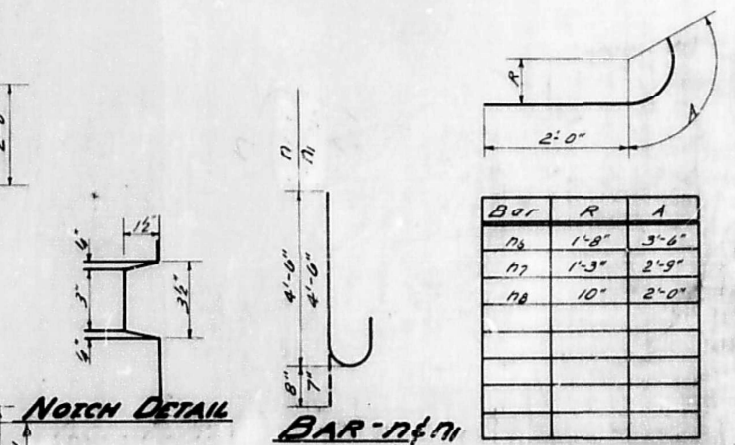
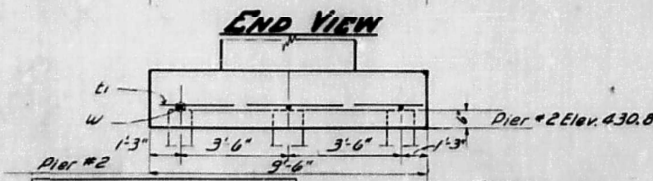
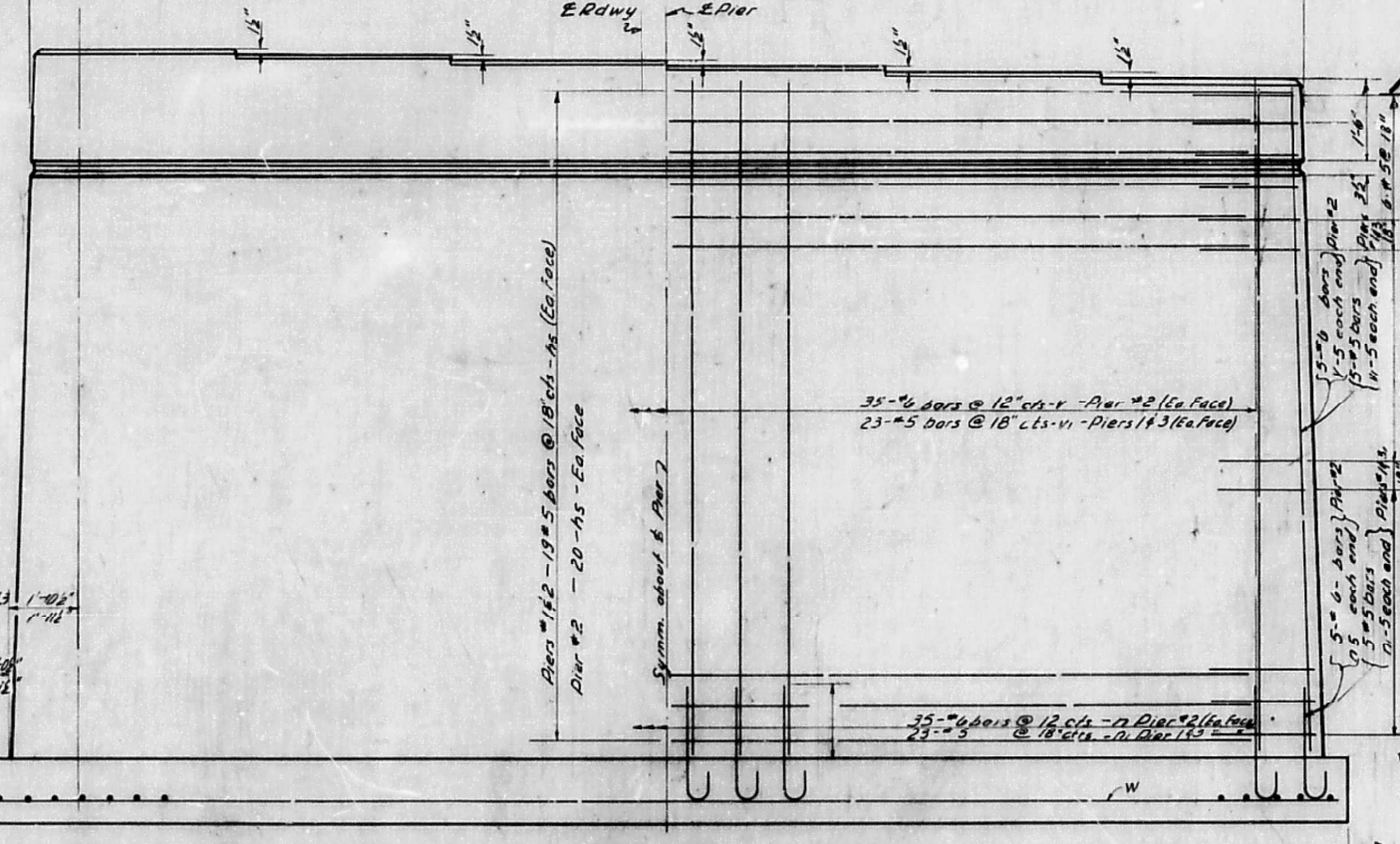
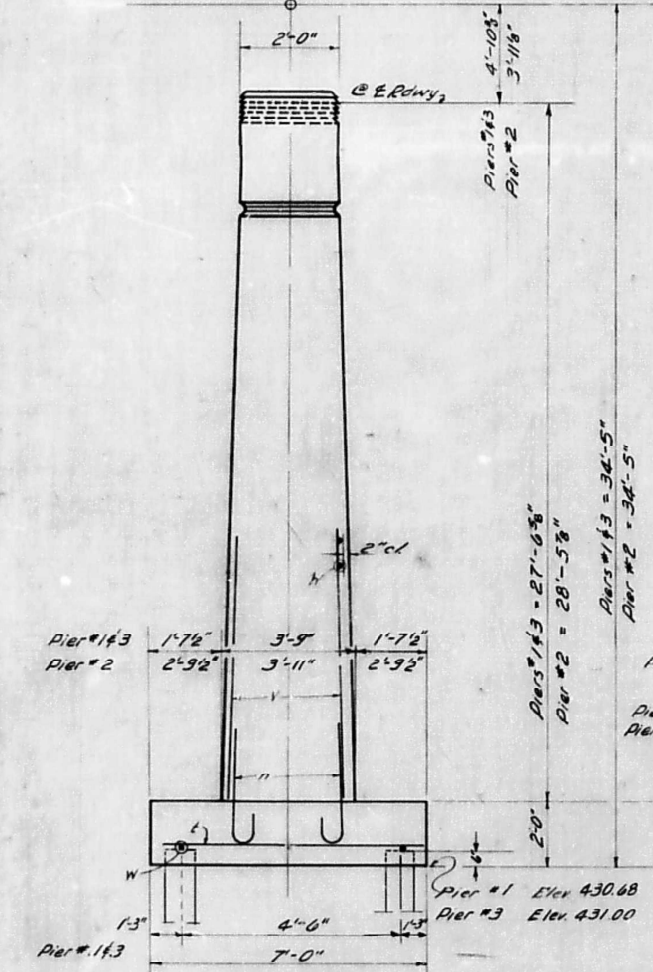
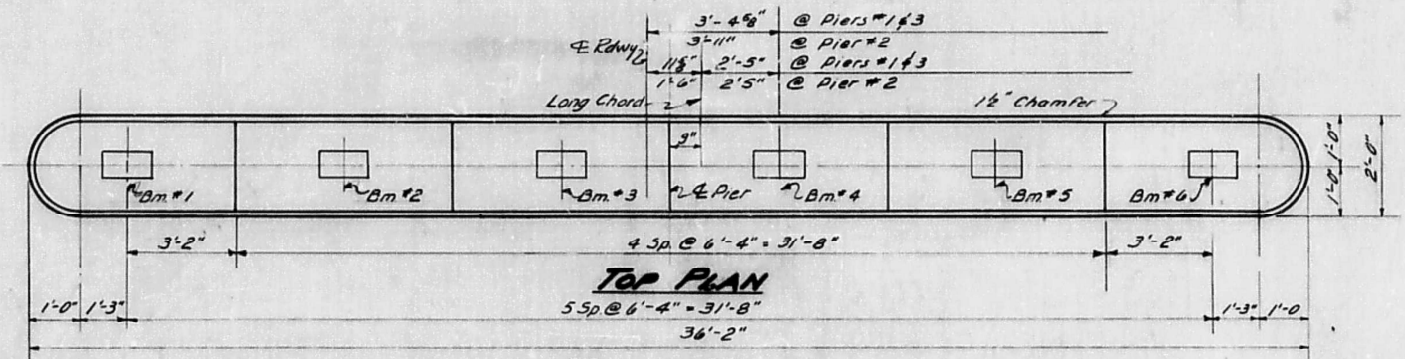
**ABUTMENTS**  
SBI-Rt. 9 SEC 43-BR  
FULTON COUNTY  
STA. 1000+00



STATE OF ILLINOIS  
DEPARTMENT OF PUBLIC WORKS & BUILDINGS  
DIVISION OF HIGHWAYS

|   |         |        |           |           |
|---|---------|--------|-----------|-----------|
| ROUTE NO.                                       | SECTION | COUNTY | SHEET NO. | SHEET NO. |
| 9   | 43BR    | FULTON | 37        | 11        |
| FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT |         |        |           |           |

Pier # 1 Sta 999+22.0 Cr Elev @ E Rdwy 465.09  
Pier # 2 Sta 1000+00.0 Elev @ E Rdwy 465.25  
Pier # 3 Sta 1000+78.00 Elev @ E Rdwy 465.41



**PILE DATA**

|              |              |
|--------------|--------------|
| Min Capacity | 30 tons/pile |
| Est. Length  | 15 ft        |
| No. Piles    | 71 (3 Piers) |
| Type         | 8" D.P. 36"  |

**BILL OF MATERIAL - PIERS #1, #2 & #3**

| BAR NO. | SIZE | LENGTH | BAR NO. | SIZE | LENGTH |
|---------|------|--------|---------|------|--------|
| v       | #6   | 28'-0" | n5      | #5   | 18'-6" |
| n       | #5   | 27'-3" | n6      | #5   | 5'-2"  |
| n       | #6   | 5'-2"  | n7      | #5   | 4'-0"  |
| n       | #5   | 5'-1"  | n8      | #5   | 2'-10" |
| l       | #4   | 6'-6"  |         |      |        |
| ti      | #8   | 9'-0"  |         |      |        |
| w       | #4   | 20'-6" |         |      |        |

|                    |        |        |
|--------------------|--------|--------|
| Class 'A' Concrete | Cu Yds | 398.9  |
| Reinforcement Bars | Lbs.   | 14,160 |
| Steel Piles        | Lin Ft | 1020   |
| Steel Test Piles   | Ea.    | 3      |

**PIERS**  
**SBI-R+9 SEC. 43-BR**  
**FULTON COUNTY**  
**STA. 1000+00**

DESIGNED: Manuel Mercado  
CHECKED: [Signature]  
DRAWN: [Signature]  
CHECKED: [Signature]

EXAMINED: [Signature]  
PASSED: [Signature]  
APPROVED: K.R. Bantel

FEB. 20 11 56

design firm  
No. 184-005896  
**MW**  
Midwest Engineering  
Associates, Inc.

|                          |            |           |
|--------------------------|------------|-----------|
| USER NAME =              | DESIGNED - | REVISED - |
| FILE NAME = 029-0069.dgn | CHECKED -  | REVISED - |
| PLOT SCALE =             | DRAWN -    | REVISED - |
| PLOT DATE =              | CHECKED -  | REVISED - |

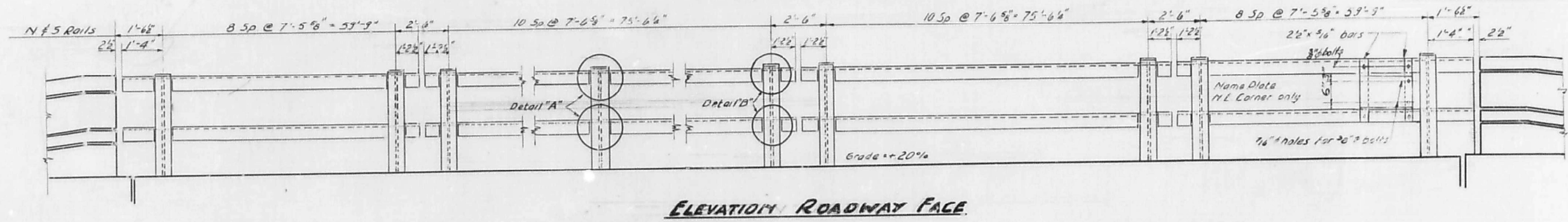
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

EXISTING BRIDGE PLANS  
STRUCTURE NO. 029-0069  
SHEET NO. 42 OF 43 SHEETS

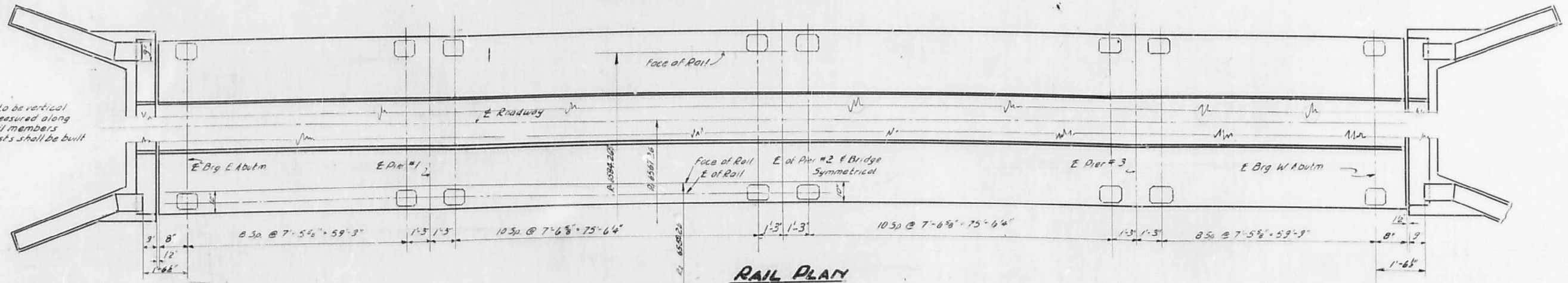
|                    |           |        |              |           |
|--------------------|-----------|--------|--------------|-----------|
| F.A.P. RTE.        | SECTION   | COUNTY | TOTAL SHEETS | SHEET NO. |
| 317                | (43-BR)BR | FULTON | 263          | 121       |
| CONTRACT NO. 68D34 |           |        |              |           |

ILLINOIS FED. AID PROJECT



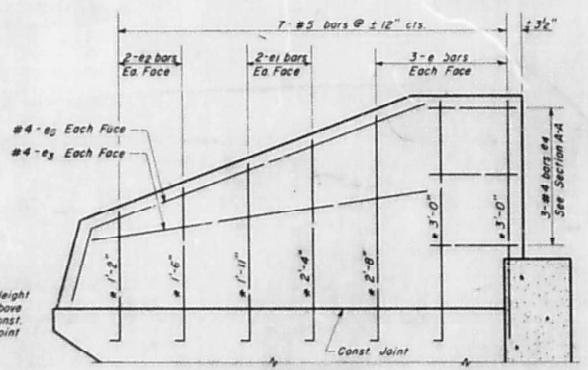


**ELEVATION ROADWAY FACE**

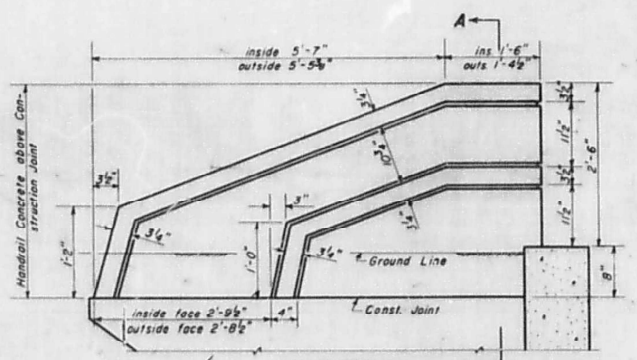


**RAIL PLAN**

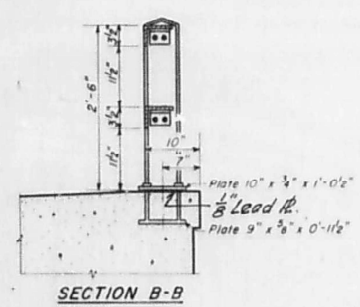
**NOTE**  
Handrail posts to be vertical  
All distances measured along  
Face of Rail. Rail members  
between the posts shall be built  
along chord



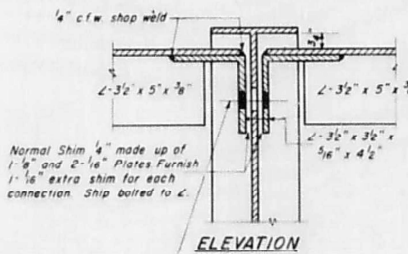
**ELEVATION**  
Elevation shown normal to all surfaces  
(Reinforcement)



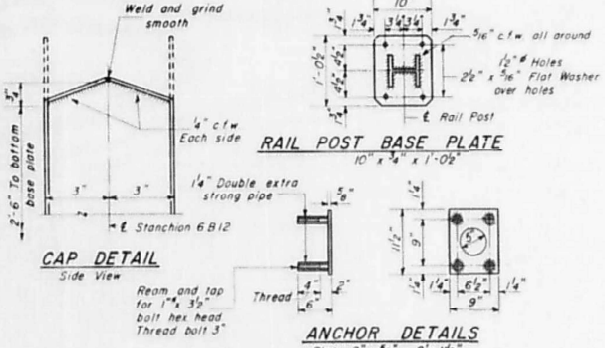
**ELEVATION A**  
Elevation shown normal to all surfaces  
(Dimensions)



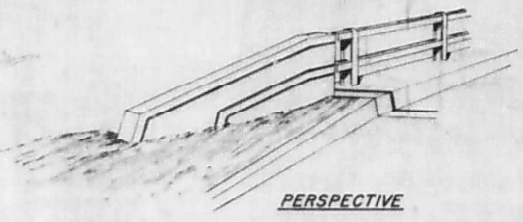
**SECTION B-B**



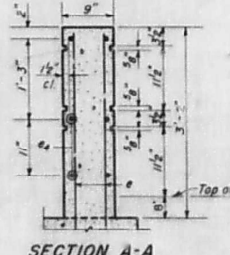
**ELEVATION**



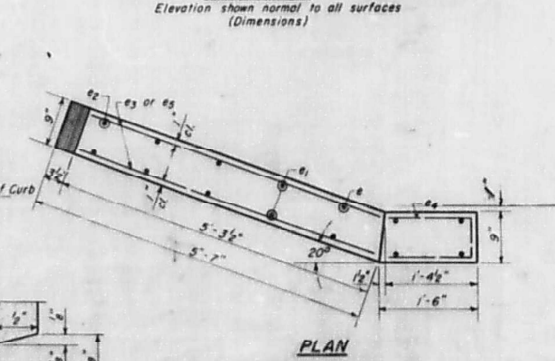
**ANCHOR DETAILS**  
Plate 9" x 3" x 0'-11 1/2"  
Shim with 1" x 3/2" Bolts in place



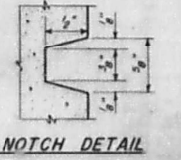
**PERSPECTIVE**



**SECTION A-A**

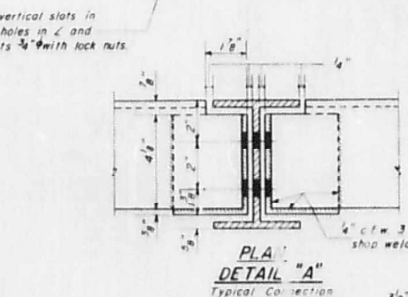


**PLAN**

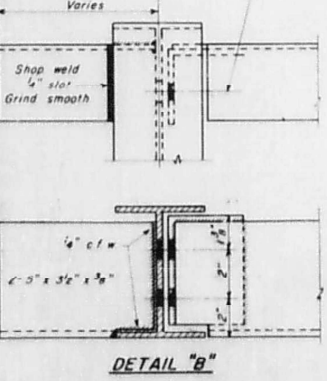


**NOTCH DETAIL**

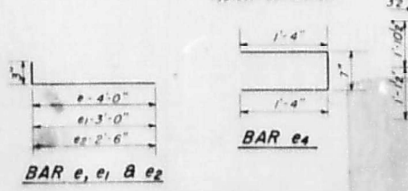
**END POST DETAILS**  
Note: All edges of Post shall have 1/4" bevel



**DETAIL "A"**  
Typical Connection



**DETAIL "B"**



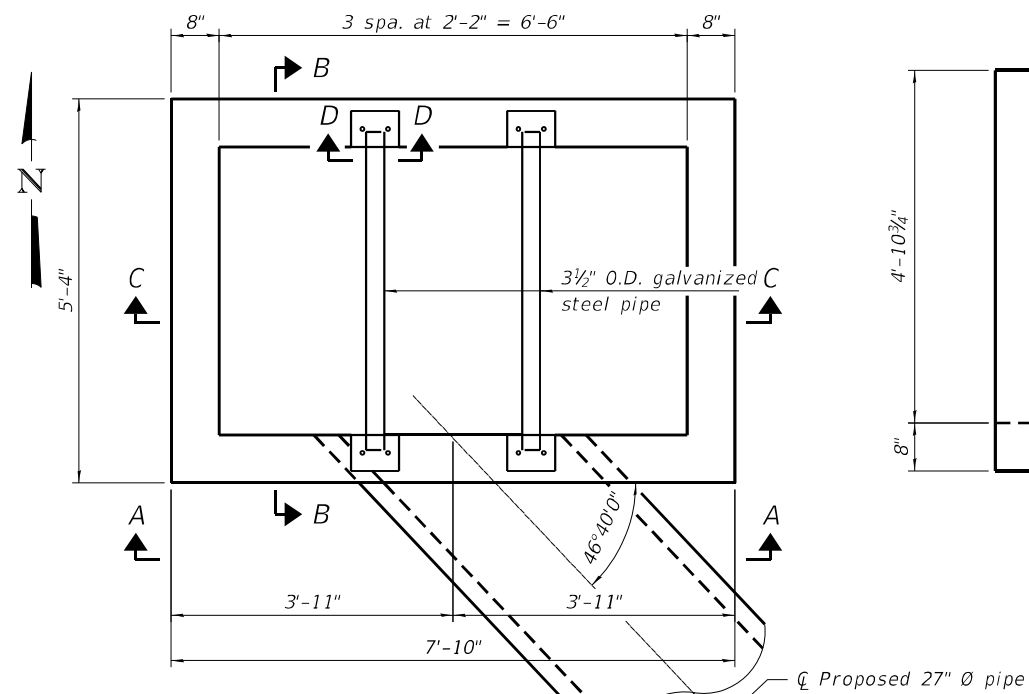
**BAR e1, e2, e3, e4, e5**

| BILL OF MATERIAL   |     |      |        |       |
|--------------------|-----|------|--------|-------|
| Bar                | No. | Size | Length | Shape |
| e1                 | 24  | #5   | 4'-3"  |       |
| e2                 | 16  | #5   | 3'-3"  |       |
| e3                 | 16  | #5   | 2'-9"  |       |
| e4                 | 12  | #4   | 5'-3"  |       |
| e5                 | 8   | #4   | 6'-6"  |       |
| Handrail Concrete  |     |      | Cu Yd  | 1.8   |
| Reinforcement Bars |     |      | Lb     | 300   |
| Metal Handrail     |     |      | Lin Ft | 562.0 |

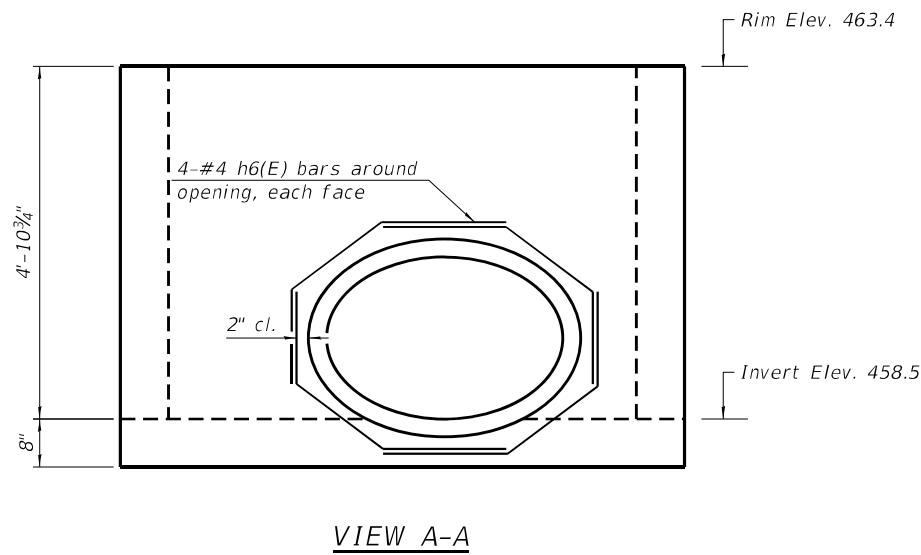
**RAILINGS**  
**SBI-R+9 Sec. 43-BR, FR**  
**FULTON COUNTY**  
**STA 1000+00**

DESIGNED: *James J. Waverling*  
CHECKED: *Manuel W. Waverling*  
DRAWN: *W. A. Sausaman, Jr.*  
APPROVED: *R.R. Bartelme*

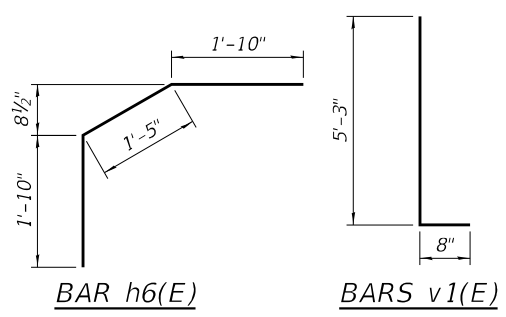
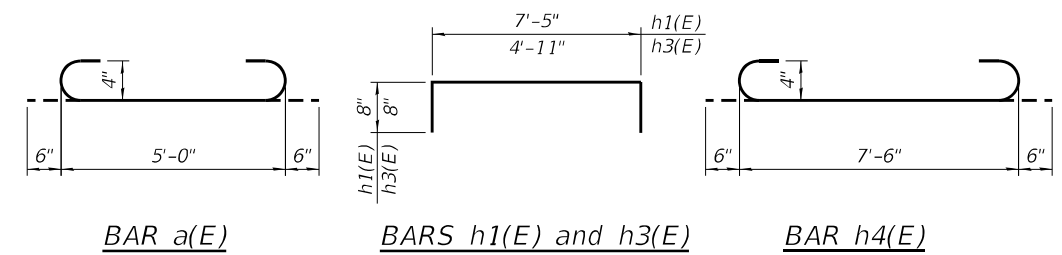
FEB. 20 1956  
EXAMINED: *W.M. ...*  
PASSED: *E. ...*



**LOCATION PLAN**  
(Sta. 552+65.42, 31.69' Lt.)



**VIEW A-A**



**MATERIAL SUMMARY**

| Bar                              | No. | Size | Length  | Shape |
|----------------------------------|-----|------|---------|-------|
| a(E)                             | 12  | #4   | 6'-0"   |       |
| a1(E)                            | 12  | #4   | 5'-0"   |       |
| h(E)                             | 12  | #4   | 7'-6"   |       |
| h1(E)                            | 12  | #4   | 8'-9"   |       |
| h2(E)                            | 12  | #4   | 5'-0"   |       |
| h3(E)                            | 12  | #4   | 6'-3"   |       |
| h4(E)                            | 9   | #4   | 8'-6"   |       |
| h5(E)                            | 9   | #4   | 7'-6"   |       |
| h6(E)                            | 8   | #4   | 5'-1"   |       |
| v(E)                             | 24  | #4   | 4'-8"   |       |
| v1(E)                            | 38  | #4   | 5'-11"  |       |
| Concrete                         |     |      | Cu. Yd. | 3.7   |
| Reinforcement Bars, Epoxy Coated |     |      | Pound   | 660   |
| Galvanized Steel Pipe            |     |      | Foot    | 9     |

The above material summary is provided for information only.

**BILL OF MATERIAL**

| Item           | Unit | Total |
|----------------|------|-------|
| Drop Box No. 1 | Each | 1     |

**GENERAL NOTES**

- All dimensions and elevations shall be verified prior to construction.
- For information not shown, see roadway plans.
- All reinforcement bars designated (E) shall be epoxy coated.
- Concrete cover for reinforcement shall be 2" unless otherwise noted.
- Field cut reinforcement bars around pipe opening, as required.

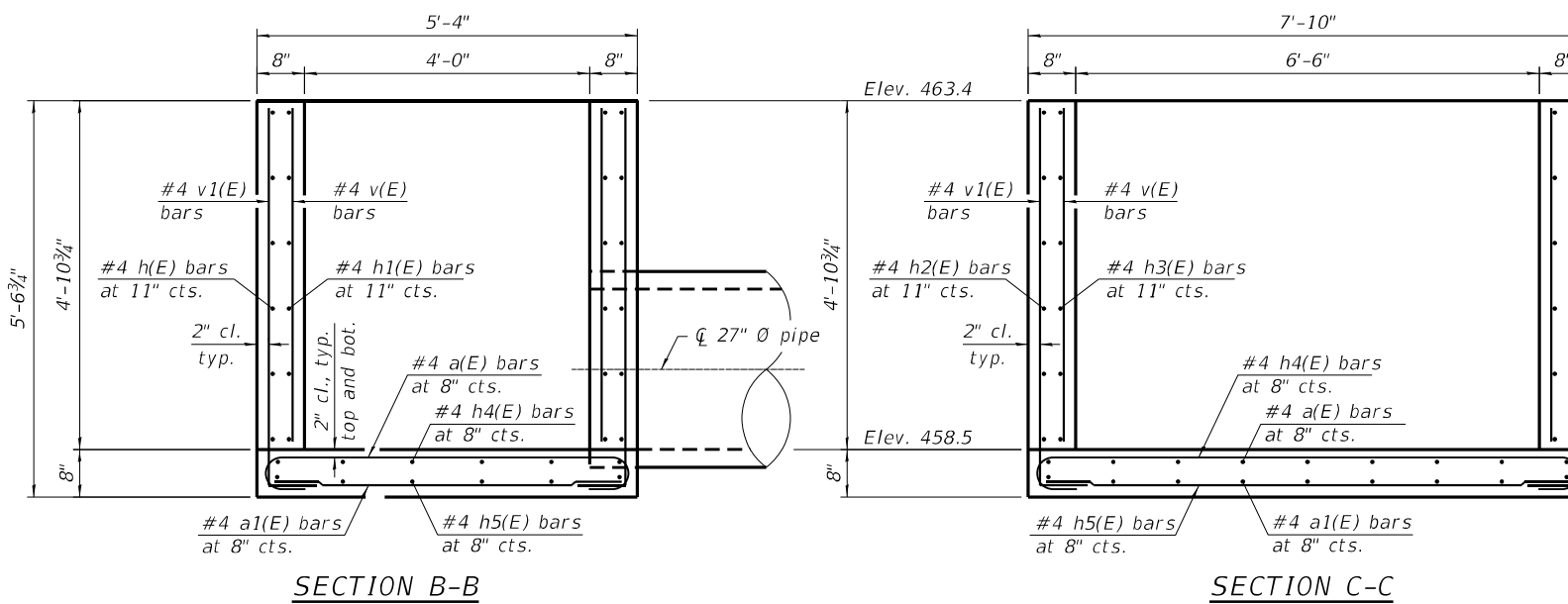
**DESIGN SPECIFICATIONS**

2020 AASHTO LRFD Bridge Design Specifications, 9th Edition

**DESIGN STRESSES**

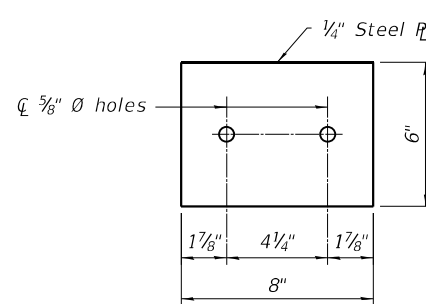
**FIELD UNITS**

$f'_c = 3,500$  psi (Concrete)  
 $f_y = 60,000$  psi (Reinforcement)

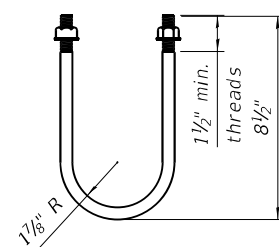


**SECTION B-B**

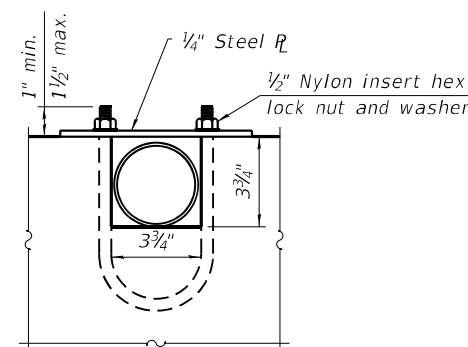
**SECTION C-C**



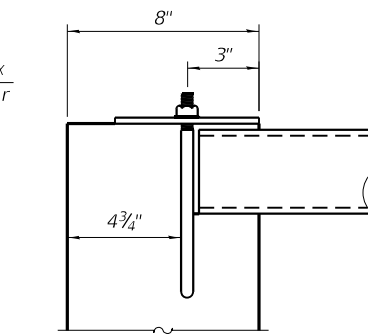
**TOP ANCHOR R**



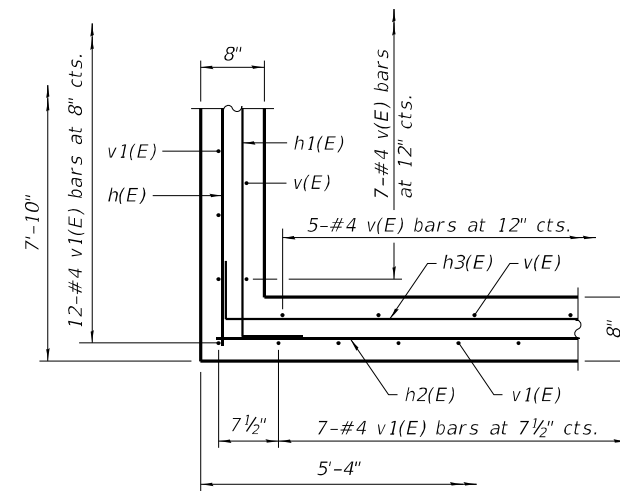
**1/2 U BOLT**



**SECTION D-D**



**DETAIL AT BLOCKOUTS**



**PARTIAL PLAN**

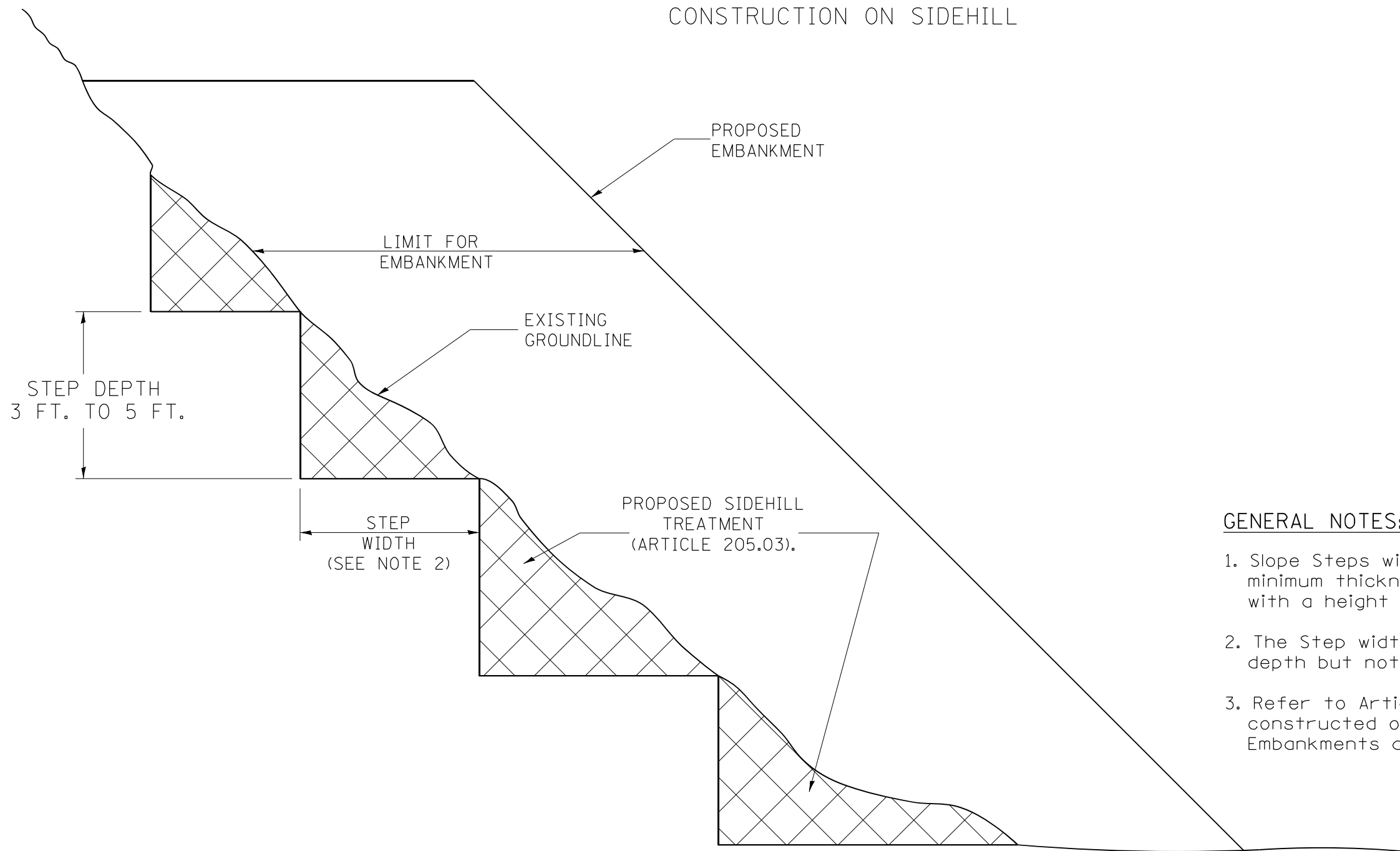


*Chad E. Hodel*  
Expires: 11/30/2022

**DROP BOX #1 - STRUCTURE #300**  
**US ROUTE 24 / IL 9**  
**FAP RTE 317 SECTION (43-BR)BR**  
**FULTON COUNTY**  
**STA. 552+65.42**

# SLOPE STEPS DETAIL

## TYPICAL CROSS-SECTION EMBANKMENT CONSTRUCTION ON SIDEHILL



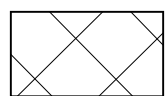
### GENERAL NOTES:

1. Slope Steps will be required for all 12(300) minimum thickness "sliver fills" and on all fills with a height of 10 feet or greater.
2. The Step width shall be twice the Step depth but not less than 6 feet.
3. Refer to Article 205.03 for Embankment to be constructed on Hillside or Slopes, or if existing Embankments are to be widened.

**DESIGNER NOTE:**

1. EACH PROJECT SHOULD BE REVIEWED INDEPENDENTLY FOR TREATMENT REQUIRED.
2. REFER TO THIS DETAIL WITH NOTE ON APPLICABLE TYPICAL SECTIONS.

**REPLACEMENT MATERIAL:**



STANDARD EMBANKMENT  
(IN ACCORDANCE WITH  
205 OF THE STANDARD SPECIFICATION).

All dimensions are in inches (millimeters)  
unless otherwise noted.

|          |  |      |
|----------|--|------|
| 1-1-97   | RENUM. L-5.03, NEW REVISION BOX, REVISED TITLE BOX, REVISED GENERAL NOTES. | T.P. |
| 10-16-06 | REVISED TO 2007 SPEC.  | M.A. |
| 5-30-18  | MINOR CORRECTION   | R.D. |

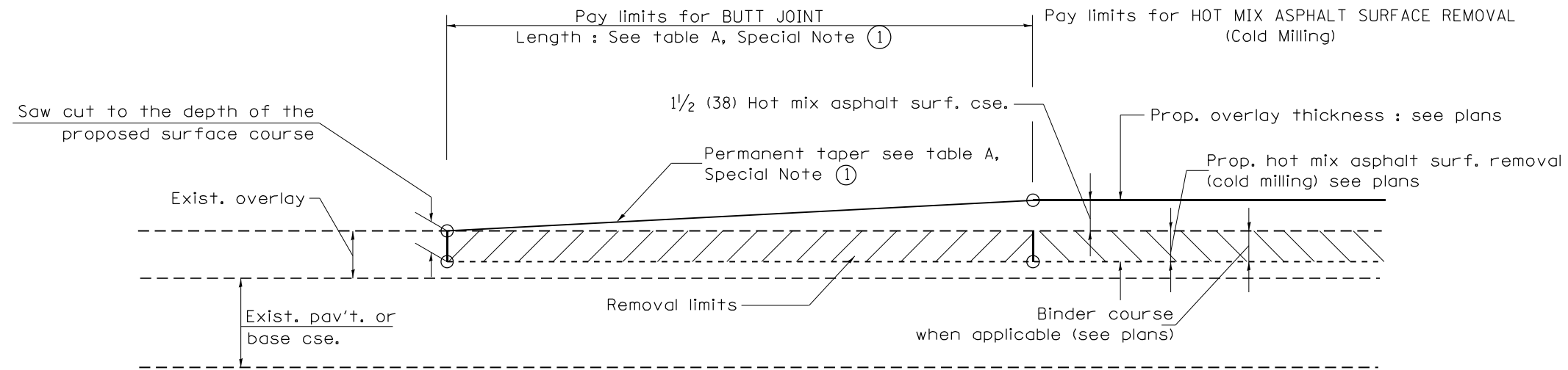
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**SLOPE STEPS DETAIL**

NOT TO SCALE

CADD STD. 205001-D4

| F.A. RTE.           | SECTION    | COUNTY | TOTAL SHEETS              | SHEET NO. |
|---------------------|------------|--------|---------------------------|-----------|
| 317A                | (43-BR) BR | FULTON | 263                       | 124       |
| FED. ROAD DIST. NO. |            |        | ILLINOIS FED. AID PROJECT |           |
|                     |            |        | CONTRACT NO. 68D34        |           |



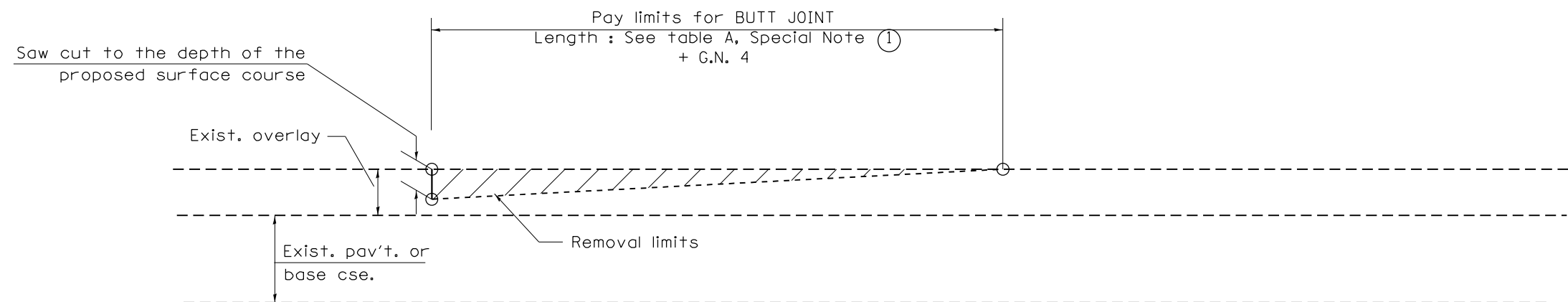
**CASE 1 : WITH HOT MIX ASPHALT SURFACE REMOVAL (COLD MILLING)**

**TABLE A  
TAPER RATES**

| SPECIAL NOTE NUMBER | ELEMENT                   | MAINLINE INTERSTATES & 4-LANE EXPRESSWAYS | ALL OTHERS |
|---------------------|---------------------------|---|------------|
| ①                   | BUTT JOINT TAPER RATE     | 1:480                                     | 1:240      |
| ②                   | TEMPORARY RAMP TAPER RATE | 1:80                                      | 1:40       |

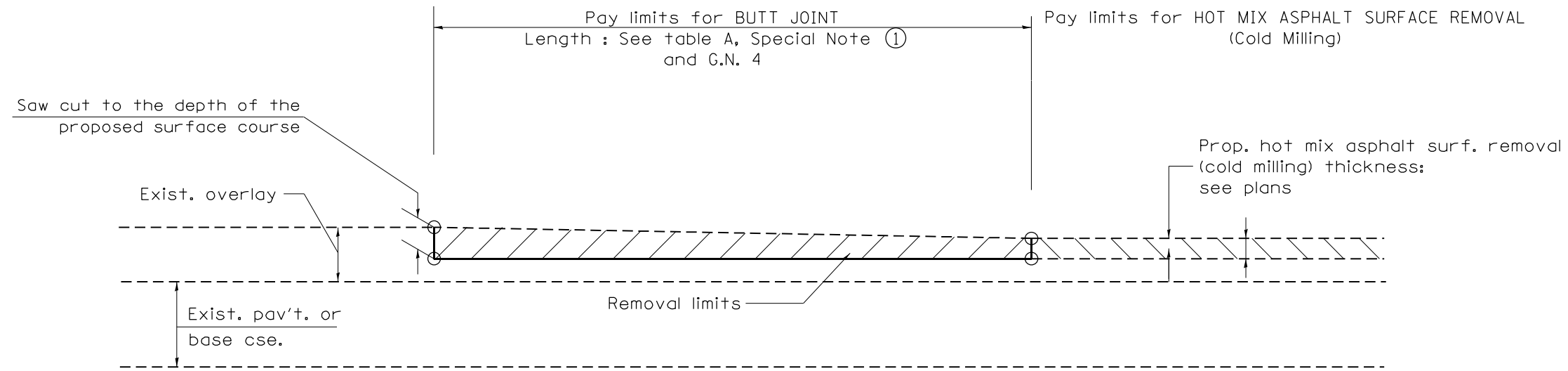
**GENERAL NOTES**

1. The work shall be done in accordance with Article 406.08 and the Special Provision for Butt Joints.
2. The pavement surface to be removed may be either bituminous or P.C. concrete. The work shall be performed in accordance with Article 440.04 and the Special Provisions for Butt Joints.
3. The saw cut joints shall be primed just prior to the placing of bituminous material. The work will be in accordance with the applicable portions of Article 406.05.
4. The length of butt joint is based on the taper rate times change in cold milling depth within the butt joint pay limits, unless otherwise indicated.
5. Temporary ramps are paid for separately and not included in the cost of the butt joints.

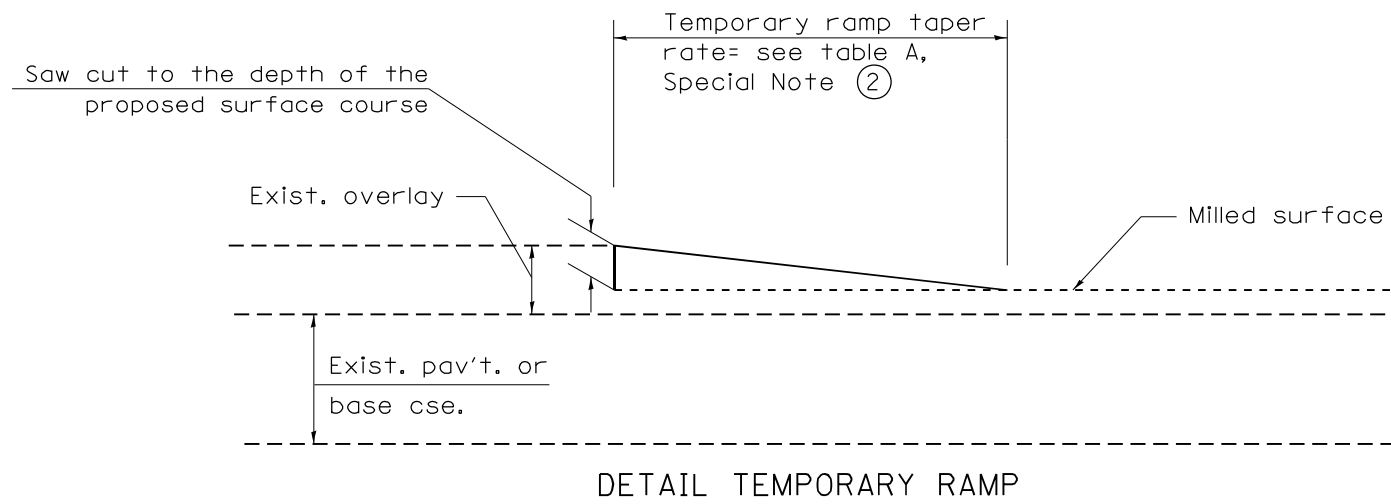


**CASE 2 : NO HOT MIX ASPHALT SURFACE REMOVAL (COLD MILLING)**

All dimensions are in inches (millimeters) unless otherwise noted.



**CASE 3 : HOT MIX ASPHALT SURFACE REMOVAL (COLD MILLING)  
TIE-IN TO EXISTING BITUMINOUS TAPER**

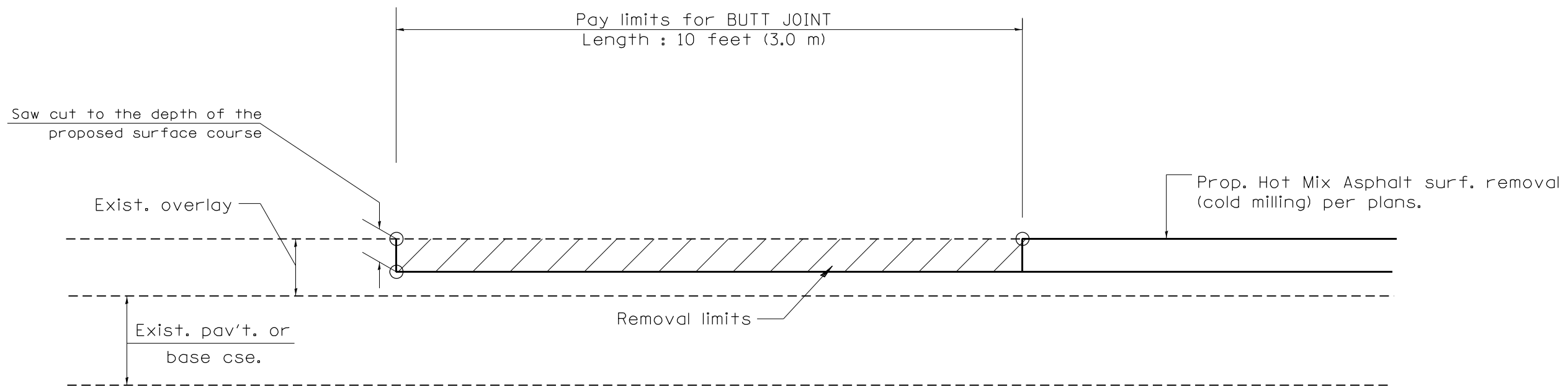


All dimensions are in inches (millimeters) unless otherwise noted.

|                     |            |                           |                    |   |  |                    |  |                                    |  |
|---------------------|------------|---------------------------|--------------------|---|--|--------------------|--|------------------------------------|--|
|                     |            |                           |                    | <b>STATE OF ILLINOIS<br/>DEPARTMENT OF TRANSPORTATION</b> |  | <b>BUTT JOINTS</b> |  | SHT. 2 OF 3<br>CADD STD. 406101-D4 |  |
| F.A. RTE.           | SECTION    | COUNTY                    | TOTAL SHEETS       | SHEET NO.   |  |                    |  |                                    |  |
| 317A                | (43-BR) BR | FULTON                    | 263                | 126   |  |                    |  |                                    |  |
|                     |            |                           | CONTRACT NO. 68D34 |   |  |                    |  |                                    |  |
| FED. ROAD DIST. NO. |            | ILLINOIS FED. AID PROJECT |                    |   |  |                    |  |                                    |  |

NOT TO SCALE





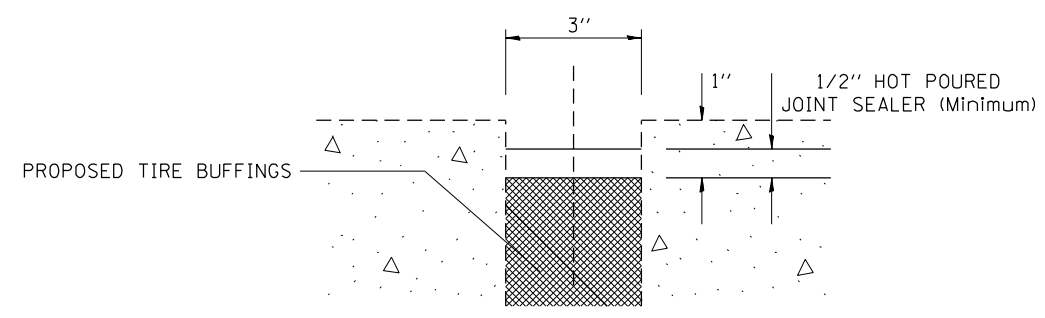
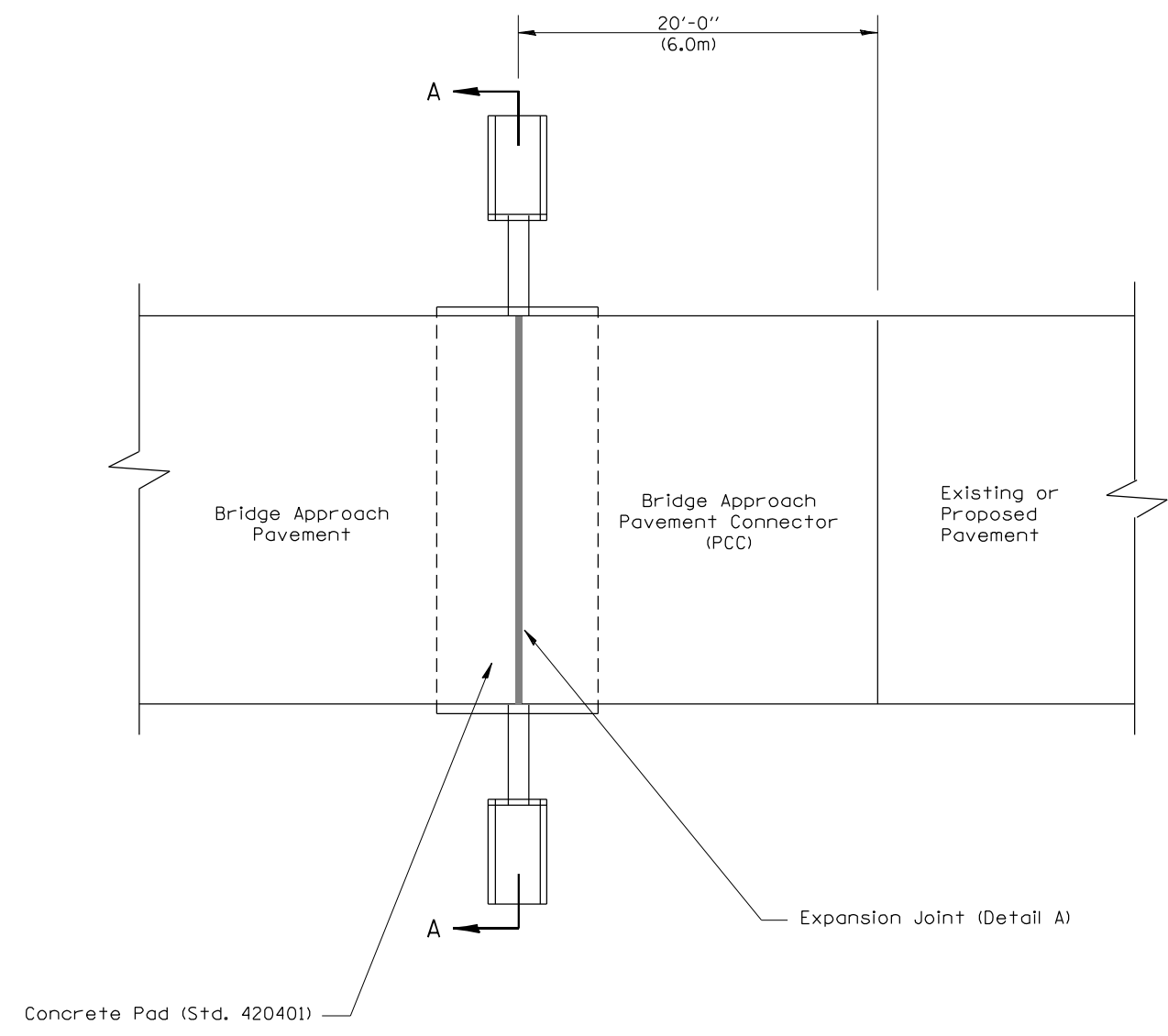
CASE 4 : SINGLE LIFT OVERLAY WITH EQUIVALENT DEPTH  
HOT MIX ASPHALT SURFACE REMOVAL (COLD MILLING)  
TIE-IN TO EXISTING BITUMINOUS TAPER

All dimensions are in inches (millimeters) unless otherwise noted.

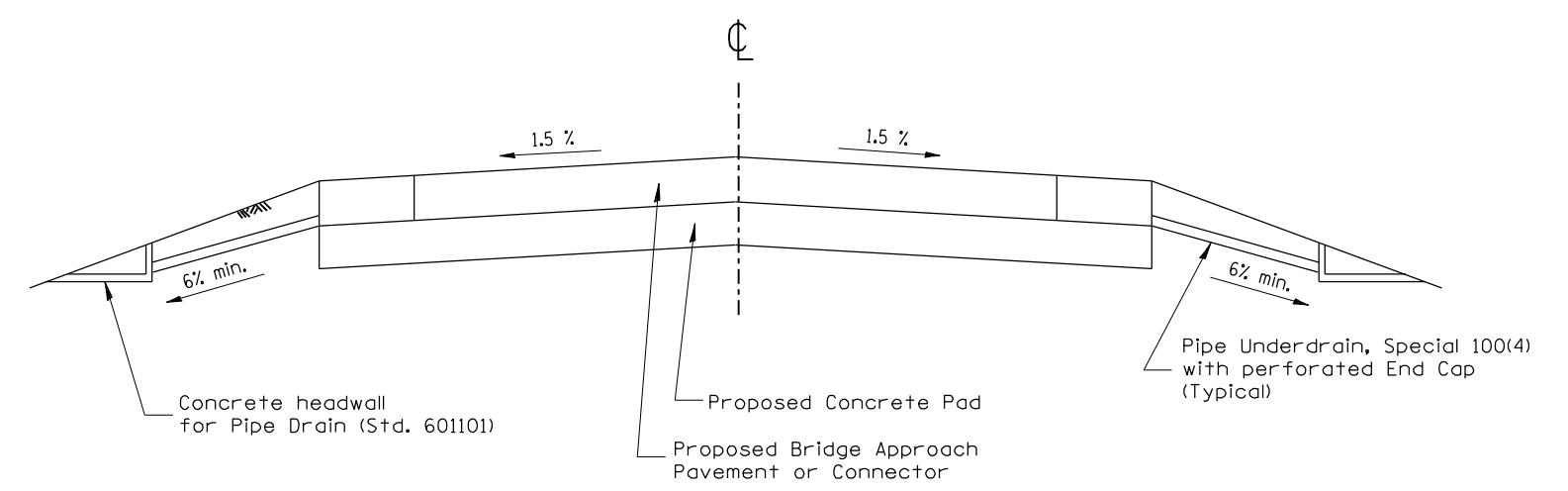
|                     |            |        |                           | <b>STATE OF ILLINOIS<br/>DEPARTMENT OF TRANSPORTATION</b> |  | <b>BUTT JOINTS</b> |  | SHT. 3 OF 3<br>CADD STD. 406101-D4 |  | <table border="1"> <tr> <th>F.A. RTE.</th> <th>SECTION</th> <th>COUNTY</th> <th>TOTAL SHEETS</th> <th>SHEET NO.</th> </tr> <tr> <td>317A</td> <td>(43-BR) BR</td> <td>FULTON</td> <td>263</td> <td>127</td> </tr> <tr> <td colspan="3">FED. ROAD DIST. NO.</td> <td colspan="2">ILLINOIS FED. AID PROJECT</td> </tr> </table> |  | F.A. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. | 317A | (43-BR) BR | FULTON | 263 | 127 | FED. ROAD DIST. NO. |  |  | ILLINOIS FED. AID PROJECT |  |
|---------------------|------------|--------|---------------------------|---|--|--------------------|--|------------------------------------|--|---|--|-----------|---------|--------|--------------|-----------|------|------------|--------|-----|-----|---------------------|--|--|---------------------------|--|
| F.A. RTE.           | SECTION    | COUNTY | TOTAL SHEETS              | SHEET NO.   |  |                    |  |                                    |  |   |  |           |         |        |              |           |      |            |        |     |     |                     |  |  |                           |  |
| 317A                | (43-BR) BR | FULTON | 263                       | 127   |  |                    |  |                                    |  |   |  |           |         |        |              |           |      |            |        |     |     |                     |  |  |                           |  |
| FED. ROAD DIST. NO. |            |        | ILLINOIS FED. AID PROJECT |   |  |                    |  |                                    |  |   |  |           |         |        |              |           |      |            |        |     |     |                     |  |  |                           |  |
|                     |            |        |                           |   |  | NOT TO SCALE       |  |                                    |  | CONTRACT NO. 68D34  |  |           |         |        |              |           |      |            |        |     |     |                     |  |  |                           |  |

**DESIGNER NOTE:**

1. Include Standards 420001, 601101 and 420401 in plans.
2. Use on bridge projects with PCC connector.
3. Pay for headwalls and UD (spl) 4".



**JOINT DETAIL**



**SECTION A-A**

**GENERAL NOTES:**

1. All work shall be done as directed by the Engineer.
2. All work shall be done in accordance with Standard 420401 except as shown herein.
3. The concrete headwalls and pipe underdrain special will be in accordance with Section 601.
4. The bridge approach pavement connector (pcc) shall be constructed similar to section G-G for existing construction rigid pavement as shown Standard 420401. Adjacent to PCC base course or pavement deformed bars will be required. Adjacent to bituminous pavement deformed bars will not be required. Use buffings from the tire retreading industry.
5. This work will be paid for in feet of PIPE UNDERDRAIN, SPECIAL, 4", and each of CONCRETE HEADWALL FOR PIPE DRAIN. The cost of providing and installing the tire buffings and hot-poured joint sealer is included in the cost of the Approach Pavement Connector.
6. Use buffings from the tire retreading industry.
7. Ensure tire buffings are clean, dry, and without any contamination.
8. Remove existing material and replace tire buffings.
9. Place loose buffings and strike off level.
10. Compact buffings by spading with a square-nose shovel.
11. Use hot-poured joint sealer that meets the requirement of Article 1050.02 and according to the applicable section of Article 420.12 of the Standard Specifications.
12. Avoid guardrail posts when constructing shoulders.

All dimensions are in inches (millimeters) unless otherwise noted.

|          |  |      |          |                                    |      |
|----------|--|------|----------|------------------------------------|------|
| 01-01-97 | RENUM. H-6.09, NEW REVISION BOX, NOTES | T.P. | 08-12-12 | UPDATED JOINT MATERIAL TO BUFFINGS | R.D. |
| 02-22-97 | REVISED SECTION A-A                    |      |          |                                    |      |
| 03-01-97 | CORRECT STD. NO. IN NOTES              | J.A. |          |                                    |      |
| 10-16-06 | REVISED TO 2007 SPEC.                  | M.A. |          |                                    |      |

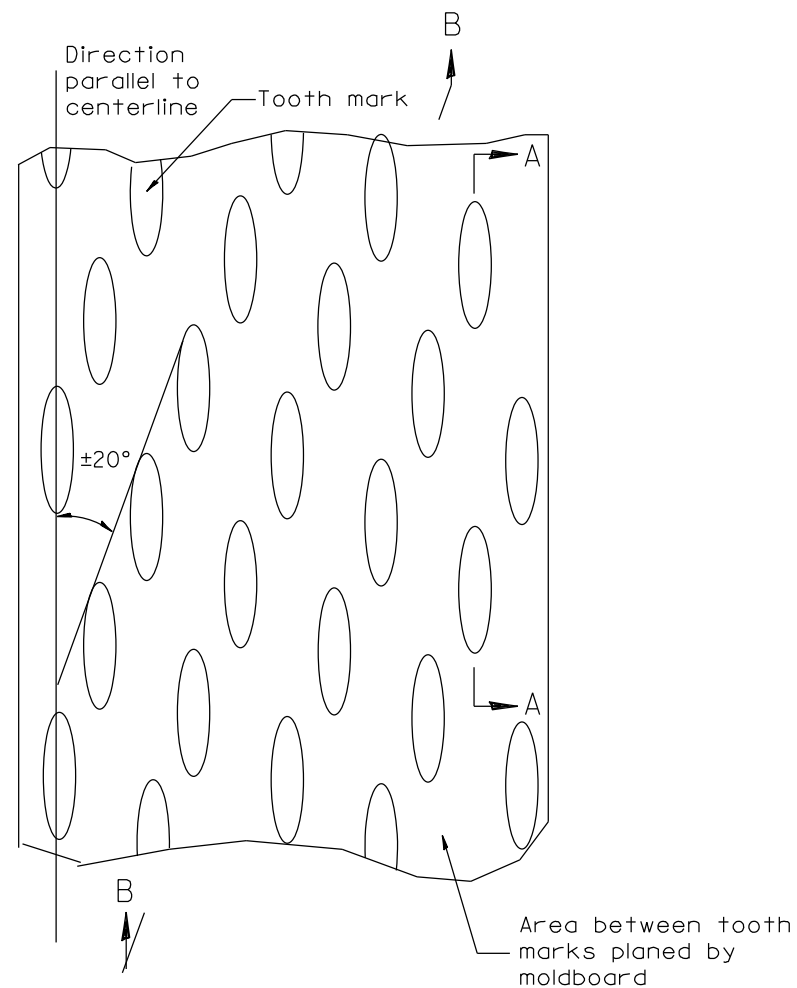
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

NOT TO SCALE

**BRIDGE APPROACH DETAIL**

CADD STD. 420401-D4

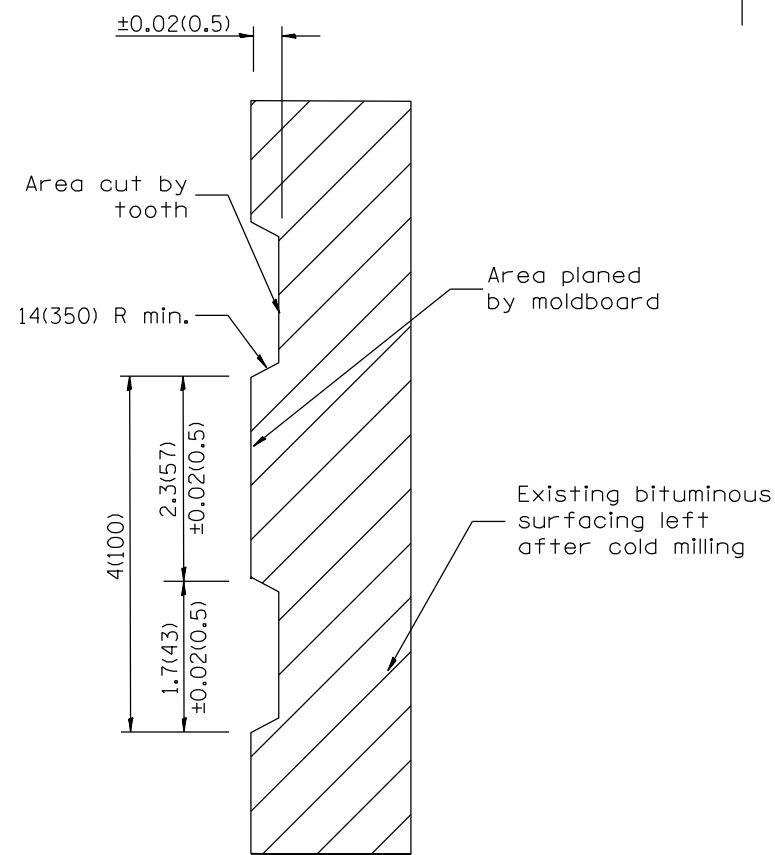
| F.A. RTE.                                     | SECTION    | COUNTY | TOTAL SHEETS       | SHEET NO. |
|---|------------|--------|--------------------|-----------|
| 317A  | (43-BR) BR | FULTON | 263                | 128       |
| FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT |            |        | CONTRACT NO. 68D34 |           |



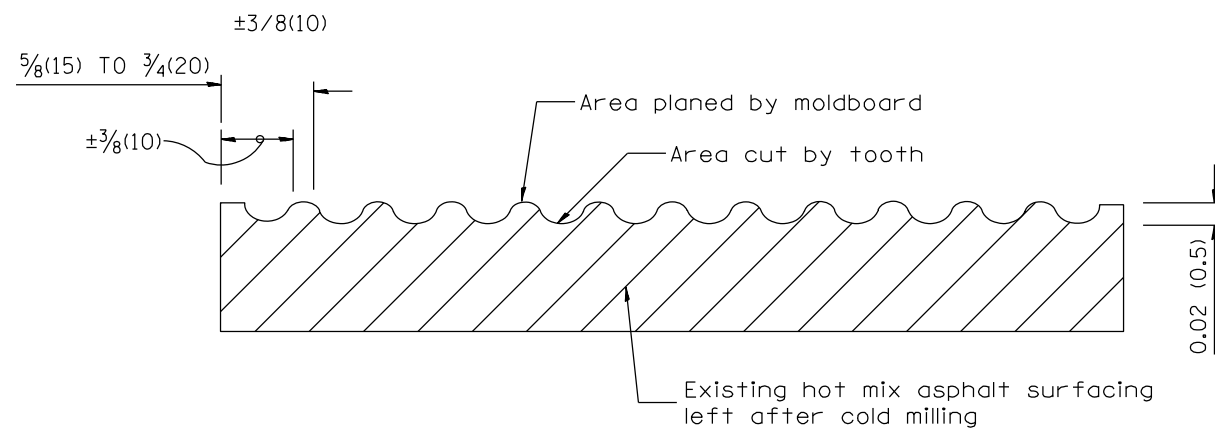
PLAN

General notes:

1. Coldmilling shall consist of two processes: Cutting with carbide teeth mounted on a rotating drum, and planing with a moldboard mounted immediately behind the cutting drum.
2. Other similar patterns will be acceptable if they consist of a smooth, flat, planed surface interspersed with a pattern of discontinuous longitudinal striations.



SECTION A-A



SECTION B-B PROJECTED PERPENDICULAR TO CENTERLINE

DESIGNER NOTES:  
1. INCLUDE DISTRICT SPECIAL PROVISION, IF APPLICABLE.

All dimensions are in inches (millimeters) unless otherwise noted.

|          |                                      |      |
|----------|--------------------------------------|------|
| 01-01-97 | RENUM. C-104.01, NEW REVISION BOX    | T.P. |
| 04-20-98 | REMOVED MILLING DETAIL FROM STANDARD | J.A. |
| 09-08-98 | CORRECT NOTE LEADER PLACEMENT        | R.W. |
| 10-16-06 | REVISED TO 2007 SPEC.                | M.A. |

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

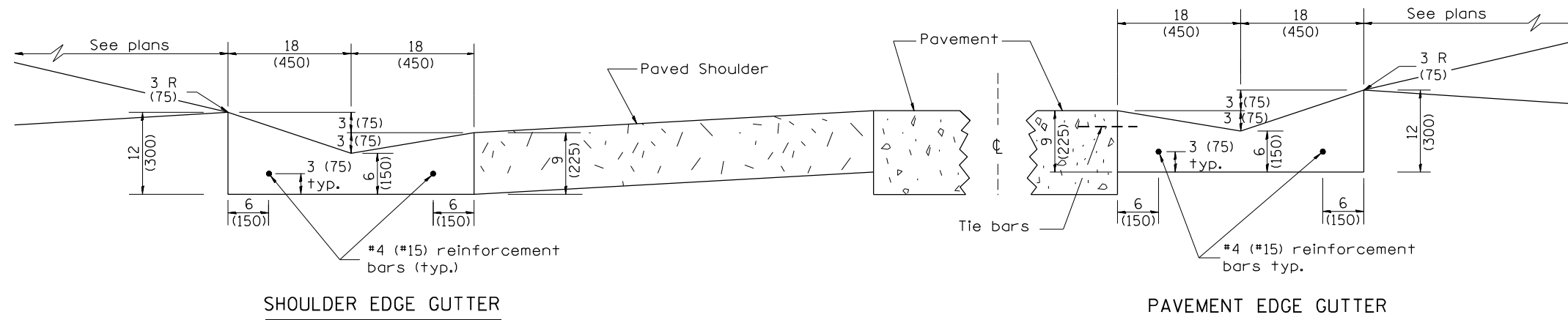
NOT TO SCALE

HOT MIX ASPHALT SURFACE REMOVAL (COLD MILLING)

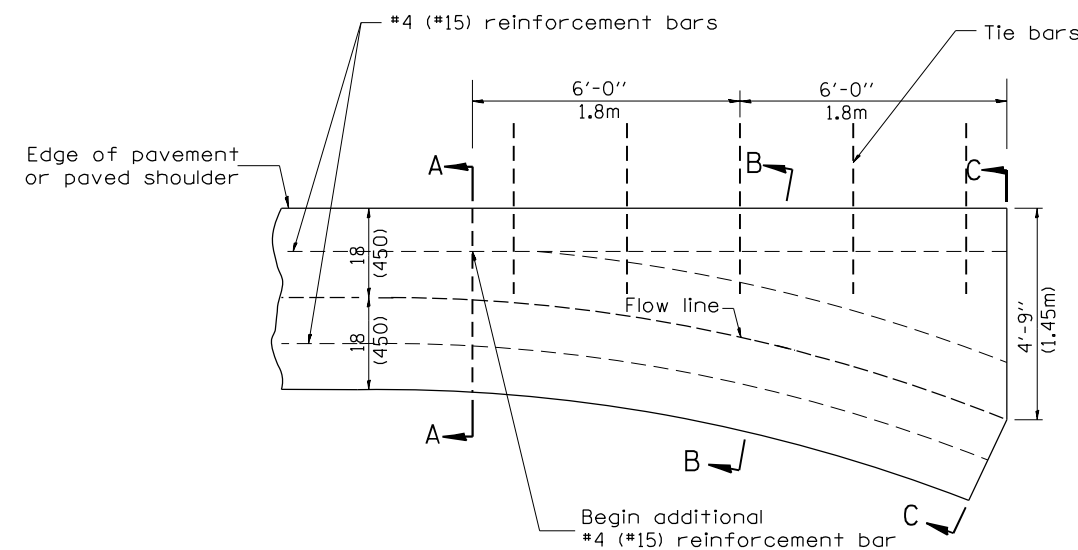
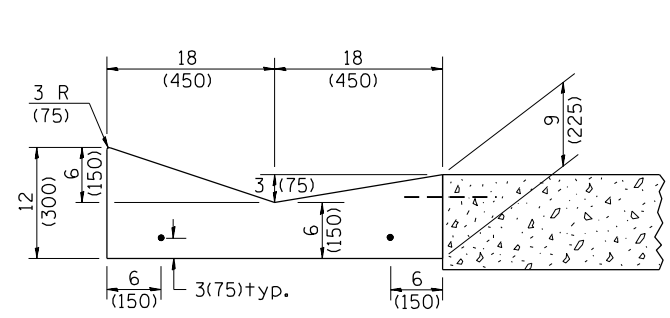
CADD STD. 440001-D4

| F.A. RTE.                                     | SECTION    | COUNTY | TOTAL SHEETS       | SHEET NO. |
|---|------------|--------|--------------------|-----------|
| 317A  | (43-BR) BR | FULTON | 263                | 129       |
| FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT |            |        | CONTRACT NO. 68D34 |           |

DESIGNER NOTES:  
 1. INCLUDE STATE STANDARD 420001.  
 2. PAY ITEM FOR INLETS, OUTLETS, AND ENTRANCES IS X6060097 CLASS SI CONCRETE (OUTLET), SPECIAL



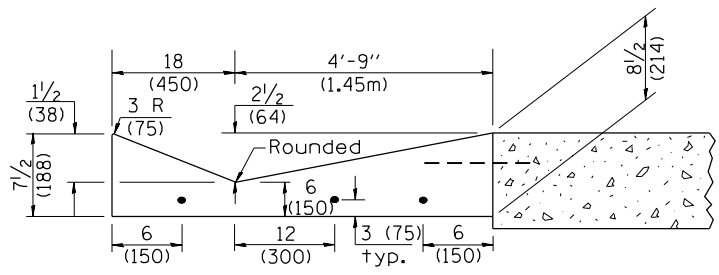
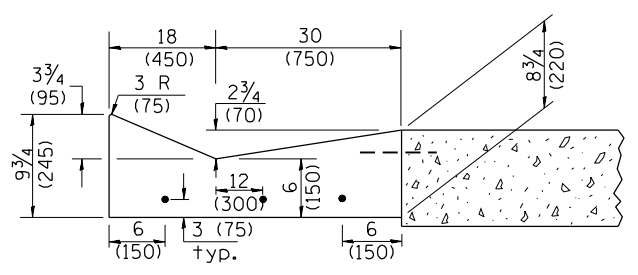
**CONCRETE GUTTER, TYPE A, (SPECIAL)**



**QUANTITY**  
 Section C-C to A-A= 1.2 cu. yd.  
 (0.92 m<sup>3</sup>) concrete.

**GENERAL NOTES:**

1. CONCRETE GUTTER, TYPE A, (SPECIAL) shall conform to the applicable portions of Section 606.
2. Tie bars shall be No. 6x24 (No. 19x600) at 36" (900mm) centers unless otherwise shown.
3. Gutter, gutter inlets, gutter outlets, and gutter entrances shall be tied to rigid pavement in accordance with details shown on Standard 420001.
4. Joints shall be constructed in accordance with Article 606.06.
5. Welded wire fabric shall conform to Article 1006.10(c)(1), and shall not be less than 58 lbs/100 sq.ft. (2.83 kg/m<sup>2</sup>).



**INLET**

| QUANTITIES  |       |
|-------------|-------|
| CALC. BY:   | DATE: |
| CHECKED BY: | DATE: |

QUANTITY CALCULATIONS ARE ON FILE AT THE DISTRICT 4 OFFICE; BUREAU OF PROJECT IMPLEMENTATION; DOCUMENTATION SECTION

| NO.      | DATE | DESCRIPTION                                 | BY   |
|----------|------|---|------|
| 01-01-97 |      | RENUM. A-1.02, NEW REVISION BOX, ELIMINATED | T.P. |
| 02-28-02 |      | EXPANSION ANCHOR TIES                       | M.A. |
| 10-16-06 |      | ENTRANCE TYPICALS REVISED                   | M.A. |
| 10-16-06 |      | REVISED TO 2007 SPEC.                       | M.A. |
| 01-10-07 |      | REVISED QUANTITY                            | M.A. |
| 11-16-07 |      | REVISED QUANTITY                            | M.A. |
| 02-15-11 |      | CHANGED MODIFIED TO SPECIAL                 | R.D. |
| 01-31-18 |      | REVISED TIE BAR SIZE & SPACING              | R.D. |

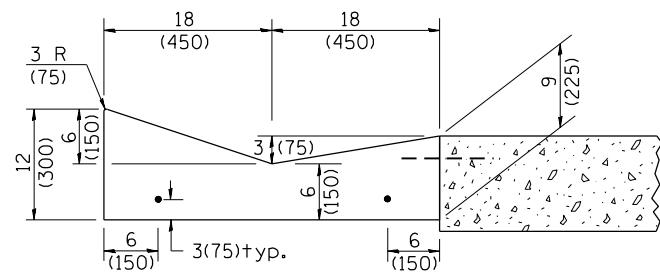
**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**CONCRETE GUTTER, TYPE A, (SPECIAL)  
 (INLET, OUTLET & ENTRANCE)**  
 NOT TO SCALE  
 SHT. 1 OF 3  
 CADD STD. 606101-D4

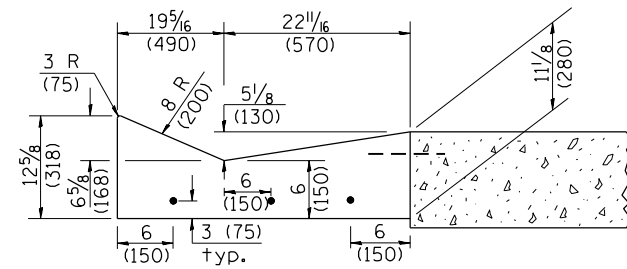
All dimensions are in inches (millimeters) unless otherwise noted.

| F.A. RTE. | SECTION    | COUNTY | TOTAL SHEETS | SHEET NO. |
|-----------|------------|--------|--------------|-----------|
| 317A      | (43-BR) BR | FULTON | 263          | 130       |

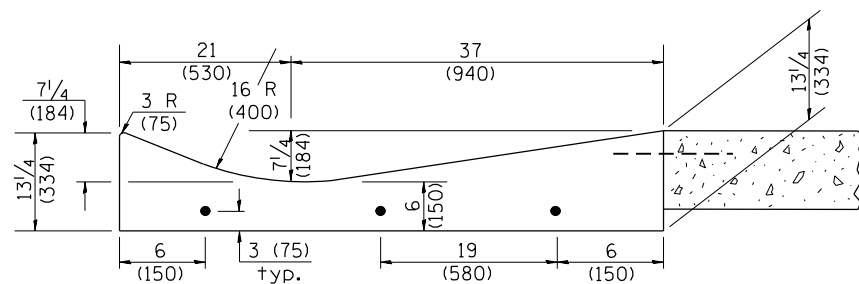
CONTRACT NO. 68D34  
 FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT



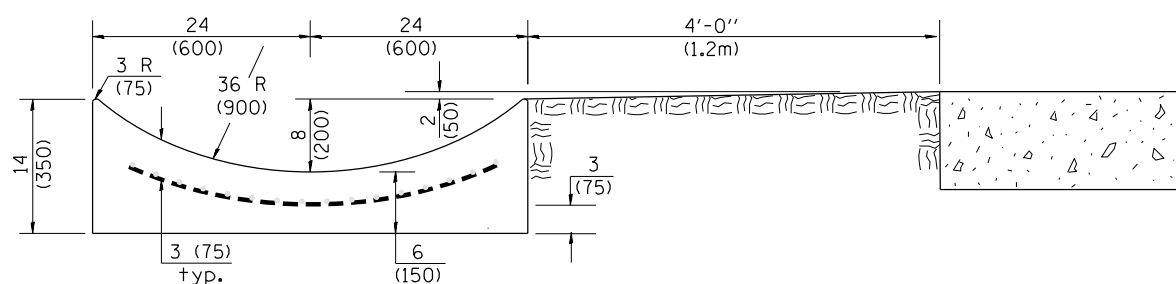
SECTION A-A



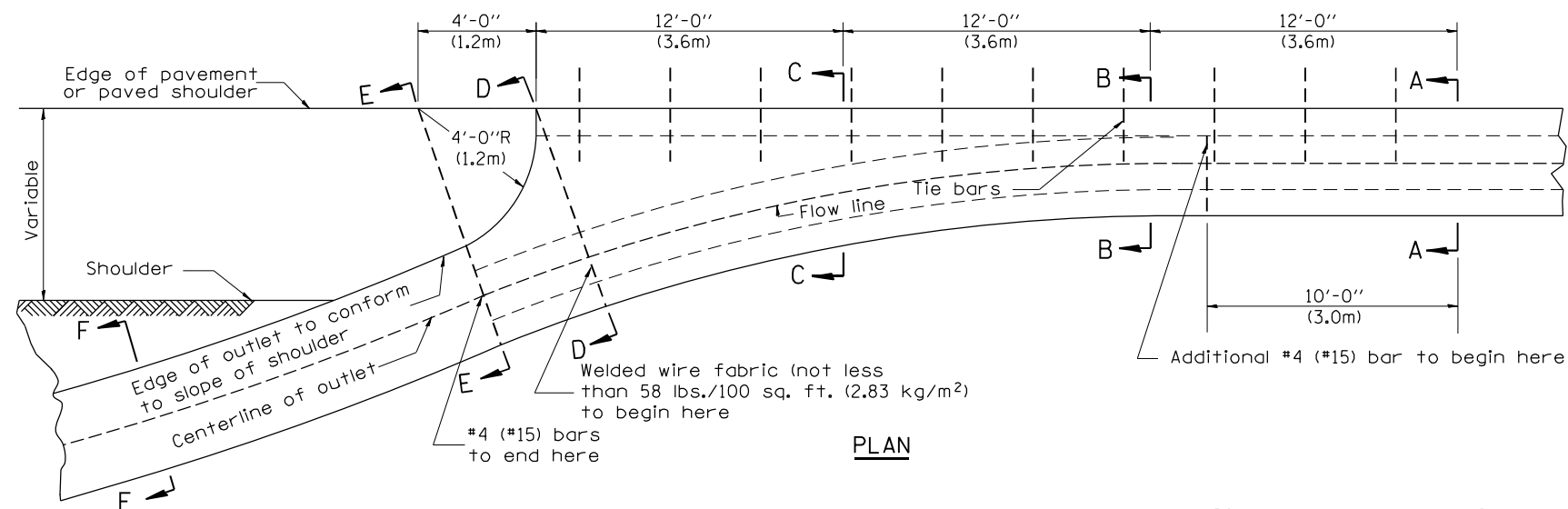
SECTION B-B



SECTION C-C



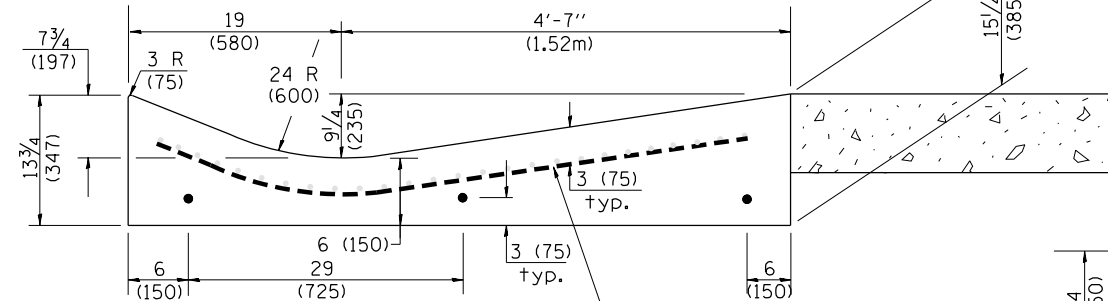
SECTION E-E



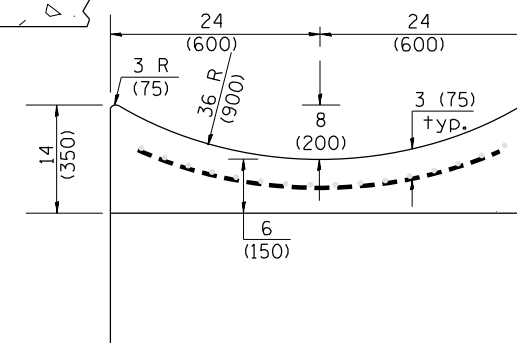
PLAN

**QUANTITY**  
 Section A-A to E-E = 4.5 cu. yd. (3.36 m<sup>3</sup>) concrete.  
 Section E-E to F-F = 0.10 cu. yd./ft. (0.26 m<sup>3</sup>/m) concrete.

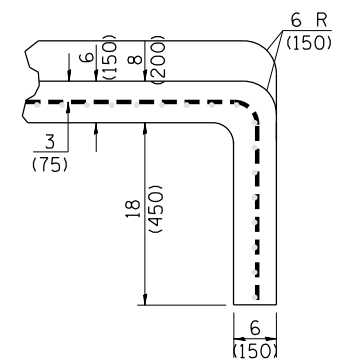
If the average grade of pavement for the distance from section A-A to section D-D exceeds 2%, this distance shall be increased 6 ft. (1.8 m) for each 1% increase in grade. A quantity adjustment is required.



SECTION D-D



SECTION F-F



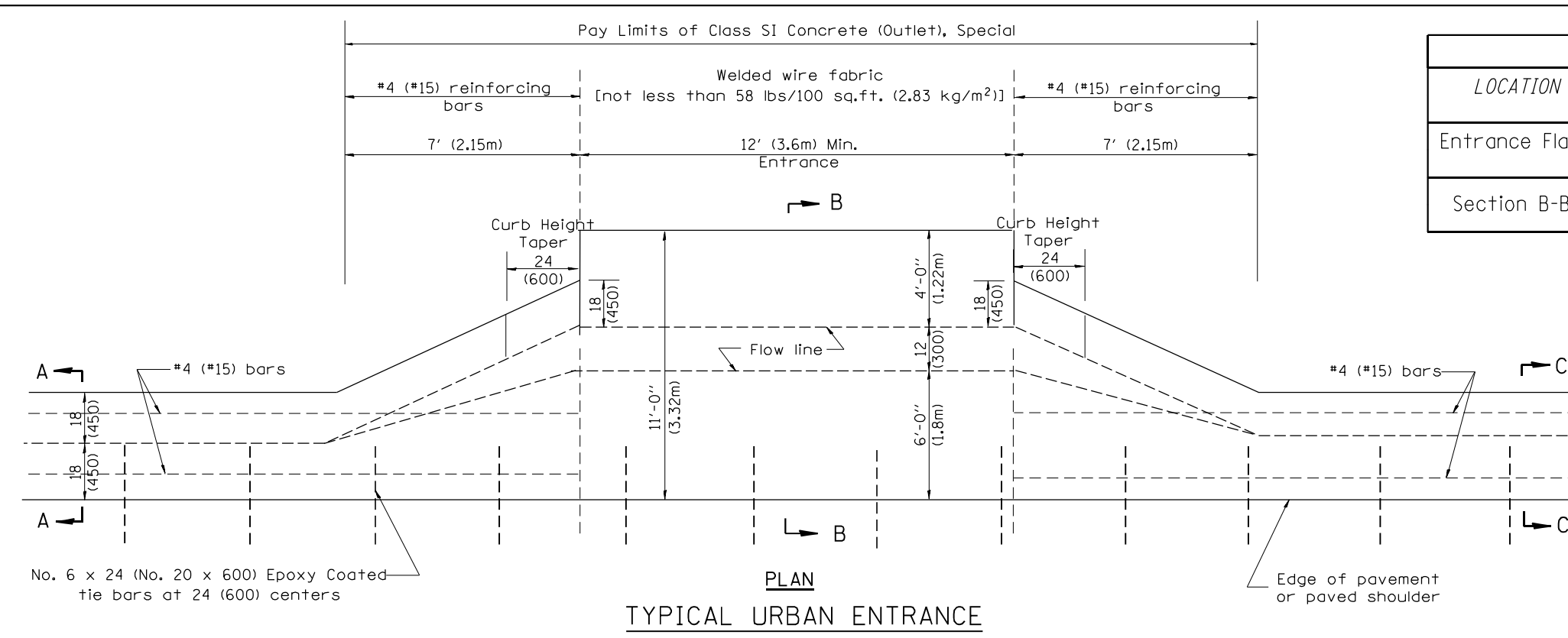
SECTIONS AT END OF OUTLET  
(CURTAIN WALL)

**QUANTITY**  
 Curtain Wall = 0.1 cu. yd. (0.08 m<sup>3</sup>) concrete.

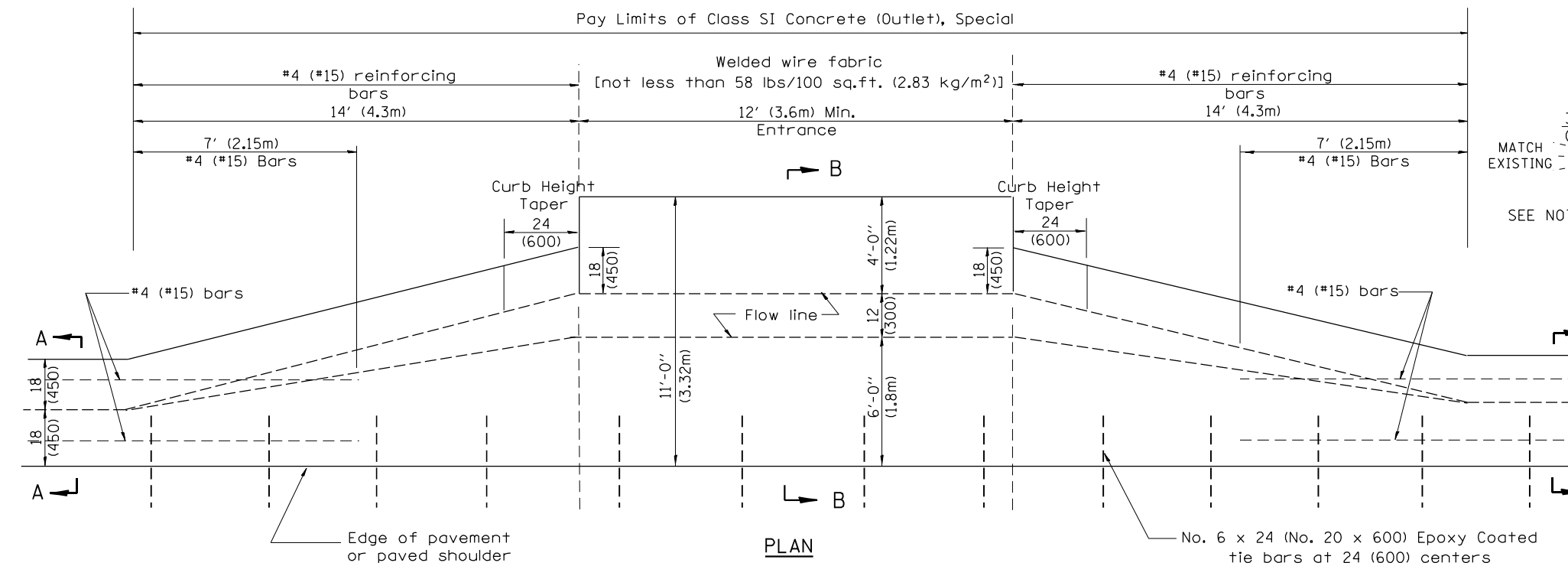
**QUANTITIES**  
 CALC. BY: \_\_\_\_\_ DATE: \_\_\_\_\_  
 CHECKED BY: \_\_\_\_\_ DATE: \_\_\_\_\_  
 QUANTITY CALCULATIONS ARE ON FILE AT THE DISTRICT 4 OFFICE; BUREAU OF PROJECT IMPLEMENTATION; DOCUMENTATION SECTION

OUTLET

| F.A. RTE.                                     | SECTION    | COUNTY | TOTAL SHEETS | SHEET NO. |
|---|------------|--------|--------------|-----------|
| 317A  | (43-BR) BR | FULTON | 263          | 131       |
| CONTRACT NO. 68D34                            |            |        |              |           |
| FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT |            |        |              |           |



No. 6 x 24 (No. 20 x 600) Epoxy Coated tie bars at 24 (600) centers



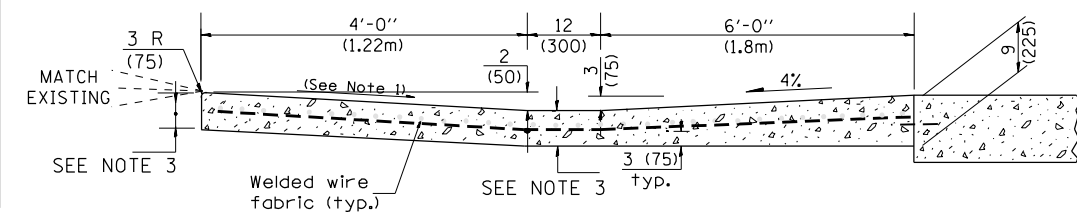
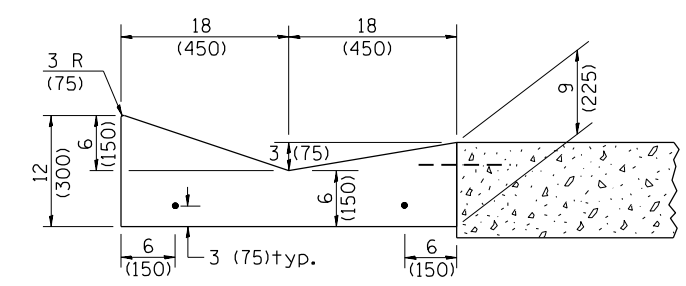
**QUANTITIES**

CALC. BY: \_\_\_\_\_ DATE: \_\_\_\_\_

CHECKED BY: \_\_\_\_\_ DATE: \_\_\_\_\_

QUANTITY CALCULATIONS ARE ON FILE AT THE DISTRICT 4 OFFICE; BUREAU OF PROJECT IMPLEMENTATION; DOCUMENTATION SECTION

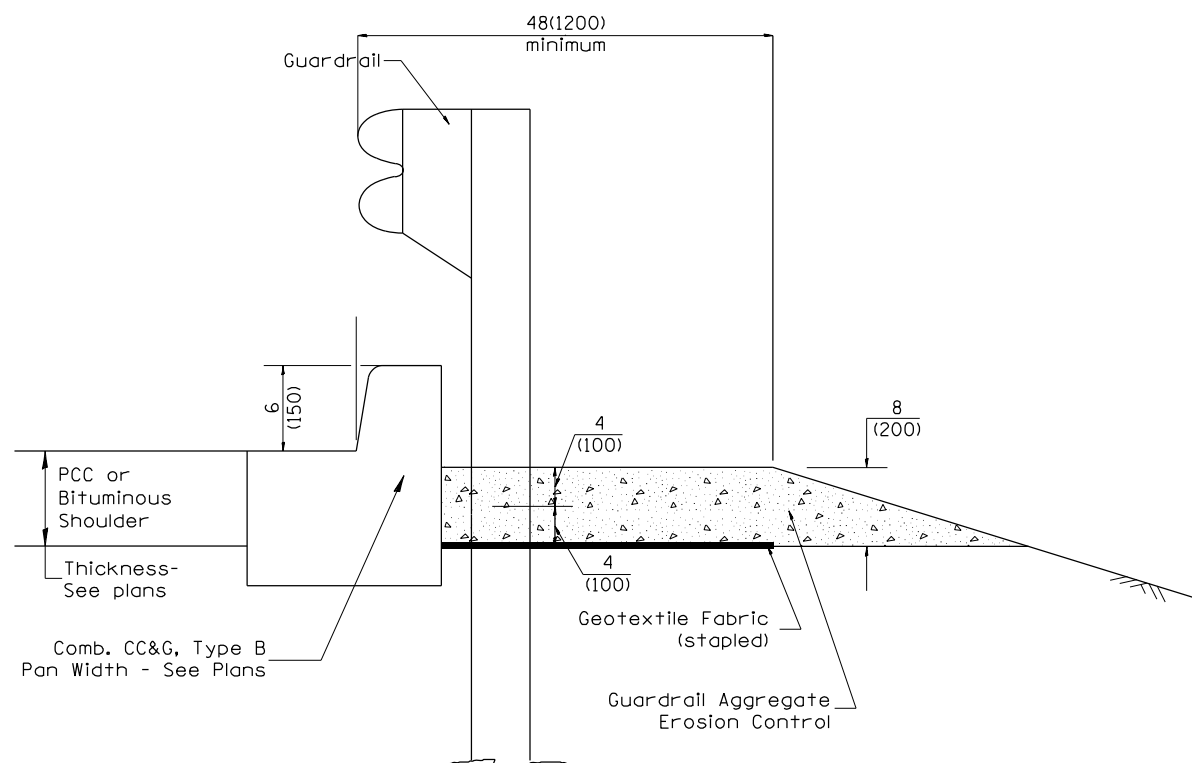
| QUANTITY CALCULATION |   |                                    |                                    |
|----------------------|---|------------------------------------|------------------------------------|
| LOCATION             | LENGTH                                      | NON-COMMERCIAL<br>6 (150)          | COMMERCIAL ENTRANCE<br>8 (200)     |
| Entrance Flare       | 7 Ft (2.15 m) Urban<br>14 Ft (4.30 m) Rural | 0.15 Cu Yd / Ft<br>(0.37 Cu M / M) | 0.18 Cu Yd / Ft<br>(0.45 Cu M / M) |
| Section B-B          | See Plans                                   | 0.23 Cu Yd / Ft<br>(0.57 Cu M / M) | 0.28 Cu Yd / Ft<br>(0.70 Cu M / M) |



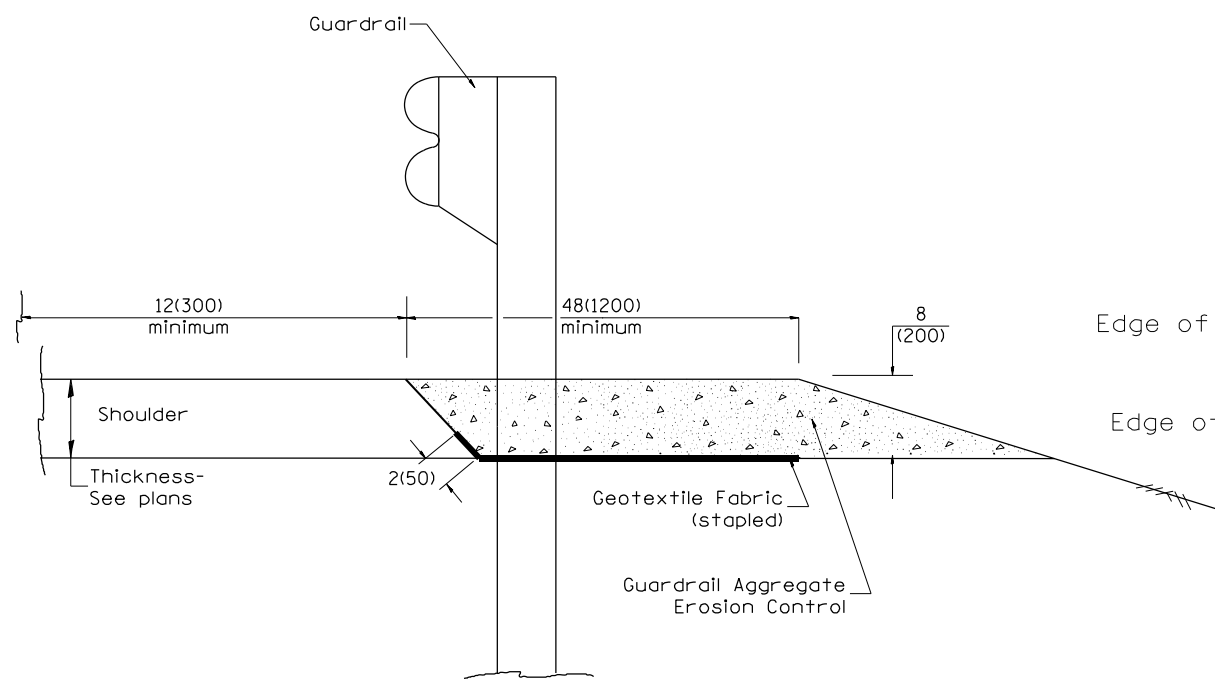
- GENERAL NOTES**
- Slope may be increased from 4% (min.) to 6% (max.) in order to match the existing.
  - The cross-slope is to be constructed as given in the plans from back turnout to where driveway matches existing.
  - For Non-Commercial Entrances the driveway thickness shall be 6 (150). For Commercial Entrances the driveway thickness shall be 8 (200).

All dimensions are in inches (millimeters) unless otherwise noted.

CONSIDER USING A "B" CURB PAY ITEM AT GUARDRAIL INSTALLATIONS WHERE GRADES ARE EQUAL TO OR GREATER THAN 1% AND AT INLETS. (INCLUDE DISTRICT SPECIAL PROVISION  
 1. USE "GUARDRAIL AGGREGATE EROSION CONTROL" AT GUARDRAIL INSTALLATIONS WHERE GRADES ARE LESS THAN 1% (INCLUDE DISTRICT SPECIAL PROVISION).  
 2. INCLUDE STATE STANDARD 610001, IF APPLICABLE.  
 3. INCLUDE THE FOLLOWING DISTRICT CADD STANDARDS AS NEEDED: "SLOPE DRAINS FOR EXPOSED PIPES; SLOPE DRAINS FOR BURIED PIPES; SEEPAGE COLLARS FOR BURIED PIPES  
 4. SEEPAGE COLLARS FOR EXPOSED PIPES; CONCRETE THRUST BLOCKS AND PIPE ELBOW.  
 5. INCLUDE DISTRICT SPECIAL PROVISION - "AGGREGATE QUALITY" FOR PROJECTS LOCATED IN THE WESTERN AREA OF THE DISTRICT - APPROX. DIVIDING LINE IS IL 97.  
 6. DELETE DESIGNER NOTES WHEN INSERTING INTO PLAN FILES.  
 7. OPERATIONS PREFERS USE OF PIPE OUTLETTING ONTO FORESLOPE WITH RIPRAP. USE NON-METALLIC PIPE WHEN POSSIBLE BECAUSE OF FUTURE CORROSION ISSUES.  
 8. IF NO OTHER SEEDING IS PAID FOR ON THE CONTRACT, USE DISTRICT SPECIAL PROVISION FOR SEEDING, MINOR AREAS.



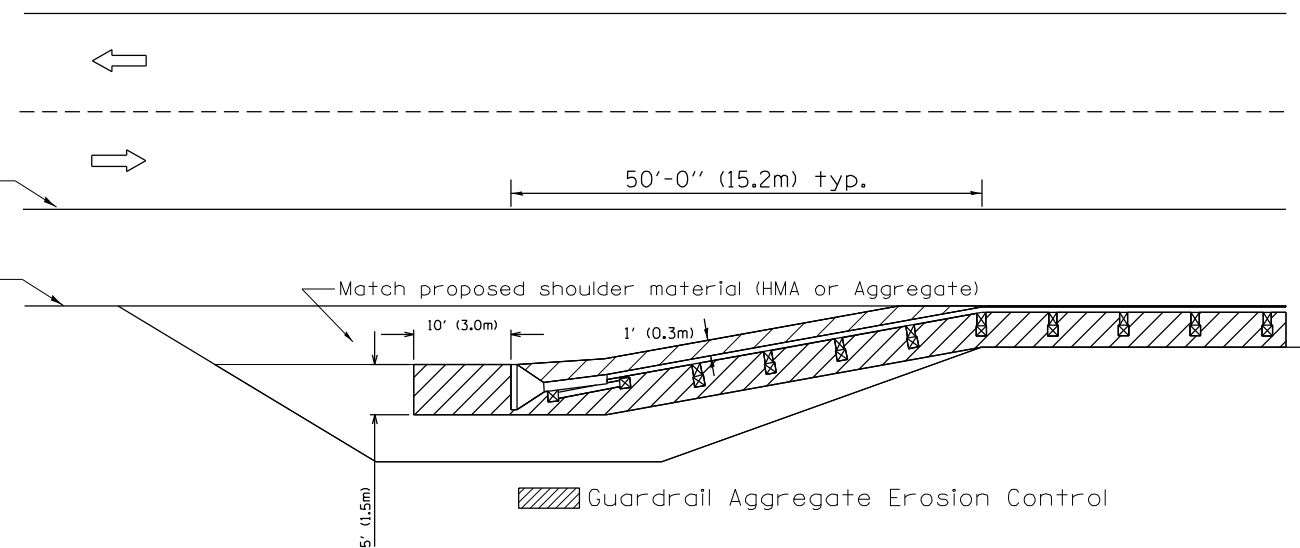
TYPICAL SECTION WITH COMBINATION CONCRETE CURB & GUTTER



TYPICAL SECTION WITHOUT EROSION CONTROL CURB

GENERAL NOTES: GUARDRAIL AGGREGATE EROSION CONTROL

- This work shall consist of grading as needed, furnishing and installing geotextile fabric and staples, and furnishing, placing and shaping crushed aggregate around and behind Steel Plate Beam Guardrail posts in accordance with Plan Details.
- Before placing the aggregate and the Geotextile Fabric, weeds and grass shall be removed from the area to be covered.
- After the area has been prepared, and in a dry condition, the Geotextile fabric shall be placed with a 12(300) minimum overlap. A knife cut for guardrail post installation is necessary.
- The aggregate shall be deposited, compacted and shaped by either mechanical or hand methods, in a manner reasonably true to line and grade.
- The Contractor shall have the option of placing the guardrail before or after the Geotextile Fabric and Aggregate are in place. If the guardrail is placed after the Geotextile Fabric and Aggregate, then any voids must be filled and the aggregate returned to line and grade.
- Materials shall meet the following requirements:
  - The crushed aggregate shall be CA1 gradation in accordance with Article 1004.01(c) of the Standard Specifications.
  - The Geotextile Fabric shall be nonwoven fabric in accordance with Article 1080.02 of the Standard Specifications.



All dimensions are in inches (millimeters) unless otherwise noted.

DESIGNER NOTES:

|          |                                |      |          |                       |      |
|----------|--------------------------------|------|----------|-----------------------|------|
| 03-07-11 | ADDED DETAIL SHOWING PLAN VIEW | R.D. | 5-30-18  | CHANGE B CURB TO CC&G | R.D. |
| 08-10-12 | REVISED CURB "B" AND AGGREGATE | R.D. | 07-16-19 | SPELLING CORRECTIONS  | R.D. |
| 07-15-15 | ADDRESSED SHOULDER INLET CURB  | R.D. |          |                       |      |
| 01-26-17 | REVISED                        | R.D. |          |                       |      |

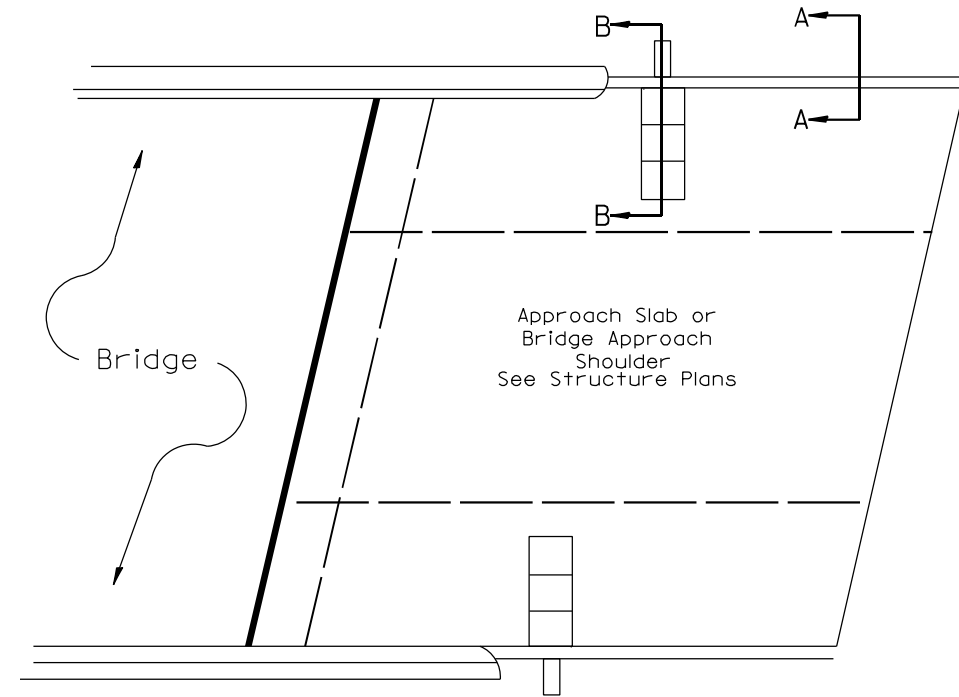
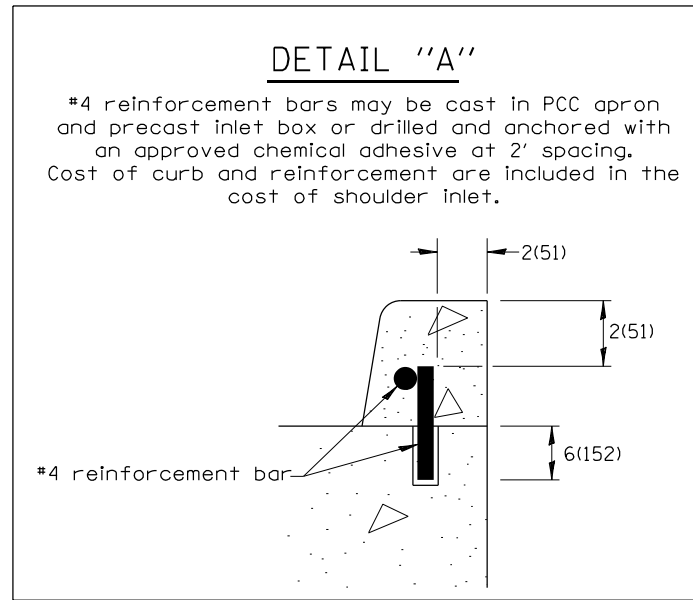
**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**GUARDRAIL EROSION CONTROL TREATMENTS**

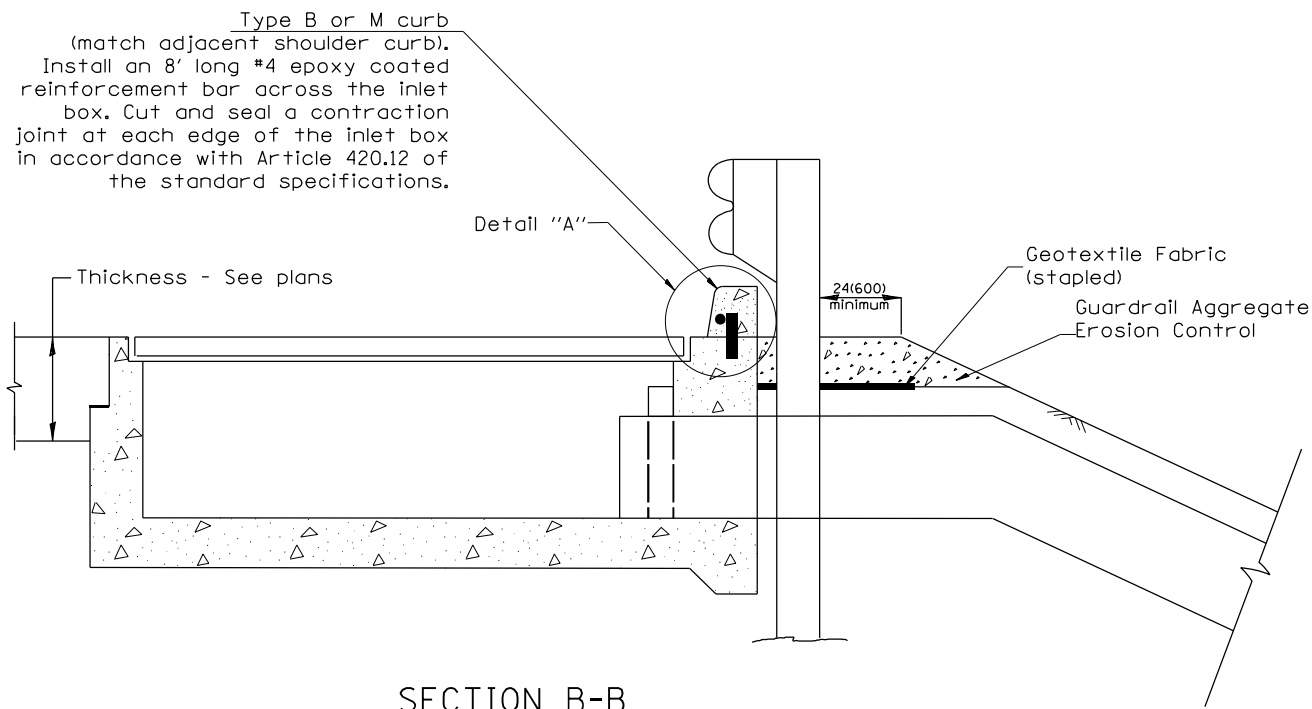
NOT TO SCALE

SHT. 1 OF 2  
CADD STD. 630101-D4

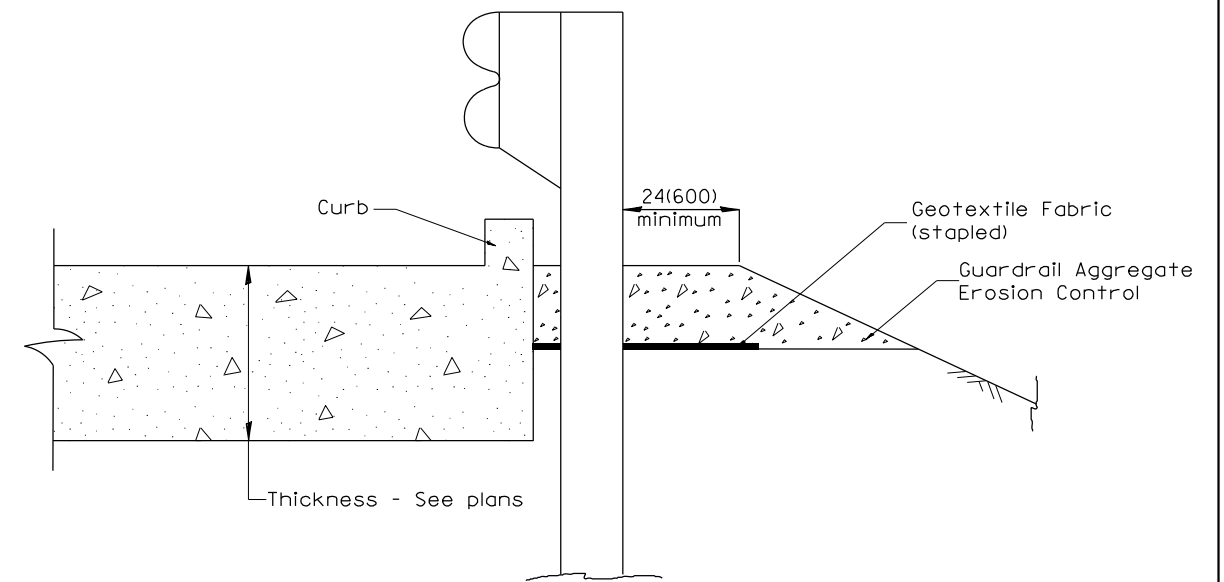
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|---------------------|------------|---------------------------|--------------|-----------|
| F.A. RTE.           | SECTION    | COUNTY                    | TOTAL SHEETS | SHEET NO. |
| 317A                | (43-BR) BR | FULTON                    | 263          | 133       |
| CONTRACT NO.        |            |                           |              |           |
| FED. ROAD DIST. NO. |            | ILLINOIS FED. AID PROJECT |              |           |



**PLAN VIEW**  
**APPROACH SLAB OR SHOULDER PLACEMENT**



**SECTION B-B**  
**TYPICAL SECTION AT INLETS**  
**TYPE E, F & G (HIGHWAY STANDARD 610001)**



**SECTION A-A**  
**TYPICAL SECTION WITH BRIDGE APPROACH CURB**

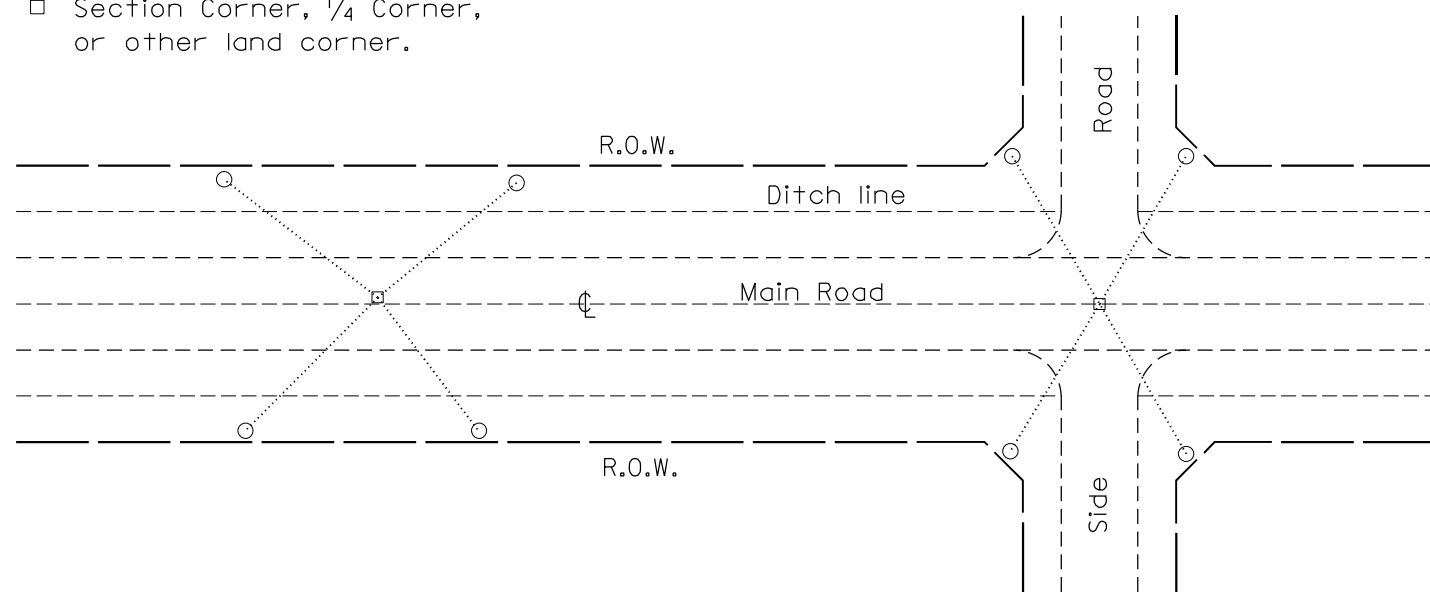
All dimensions are in inches (millimeters) unless otherwise noted.

|   |  |  |  |   |  |  |  |   |            |        |                 |              |
|---|--|--|--|---|--|--|--|---|------------|--------|-----------------|--------------|
| <b>STATE OF ILLINOIS<br/>DEPARTMENT OF TRANSPORTATION</b> |  |  |  | <b>GUARDRAIL EROSION CONTROL TREATMENTS</b> |  |  |  | F.A.<br>RTE.                                  | SECTION    | COUNTY | TOTAL<br>SHEETS | SHEET<br>NO. |
|   |  |  |  | NOT TO SCALE                                |  |  |  | 317A  | (43-BR) BR | FULTON | 263             | 134          |
|   |  |  |  | SHT. 2 OF 2<br>CADD STD. 630101-D4          |  |  |  | CONTRACT NO. 68D34                            |            |        |                 |              |
|   |  |  |  |   |  |  |  | FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT |            |        |                 |              |



**PERMANENT SURVEY TIES**

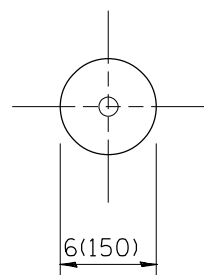
- Permanent Survey Tie
- Section Corner, 1/4 Corner, or other land corner.



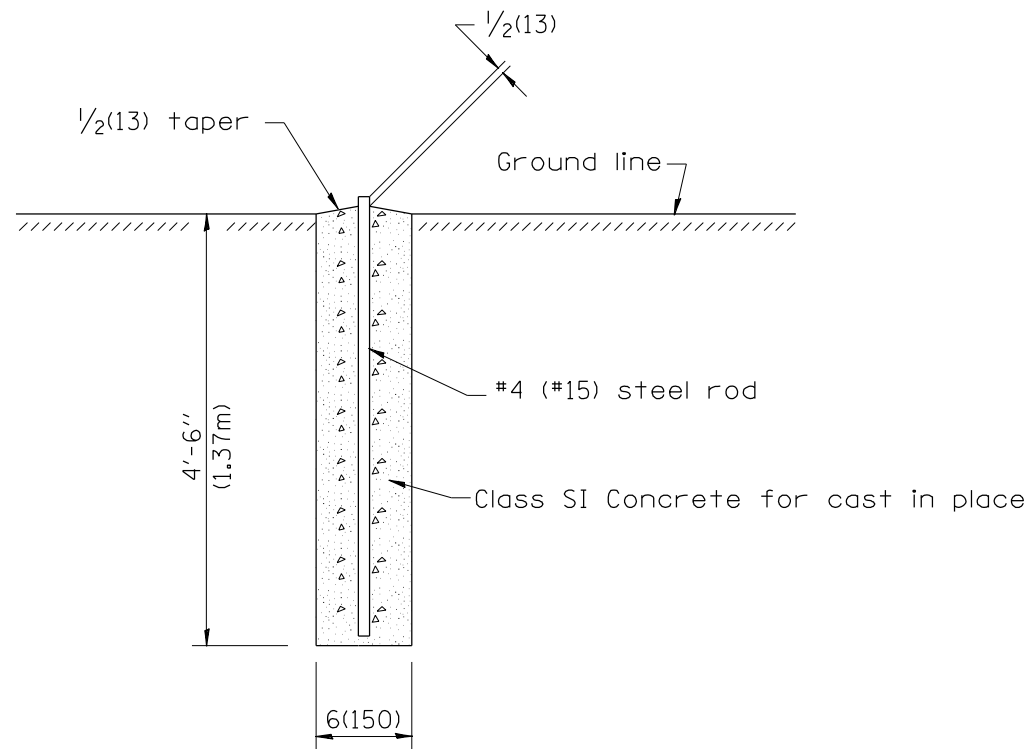
**TYPICAL APPLICATION**

**GENERAL NOTES**

1. The marker shall be cast in place of Class SI Concrete.
2. Tie marker shall be installed after the final seeding has been completed unless otherwise specified by the Engineer.
3. The tie distances to the section corner shall be measured and recorded by the surveyor setting the PSM. All ties shall be turned over to the IDOT Chief of Surveys or Chief of Plats for recordation.
4. All documentation shall be performed by a PLS

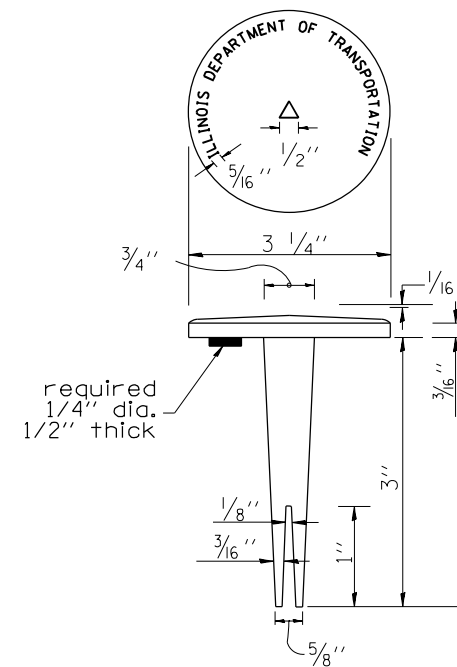


**PLAN**

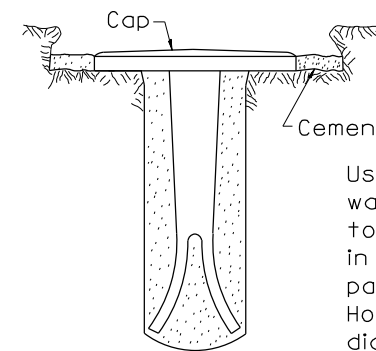


**SECTION**

**PERMANENT SURVEY MARKERS**



**BRASS TABLET**

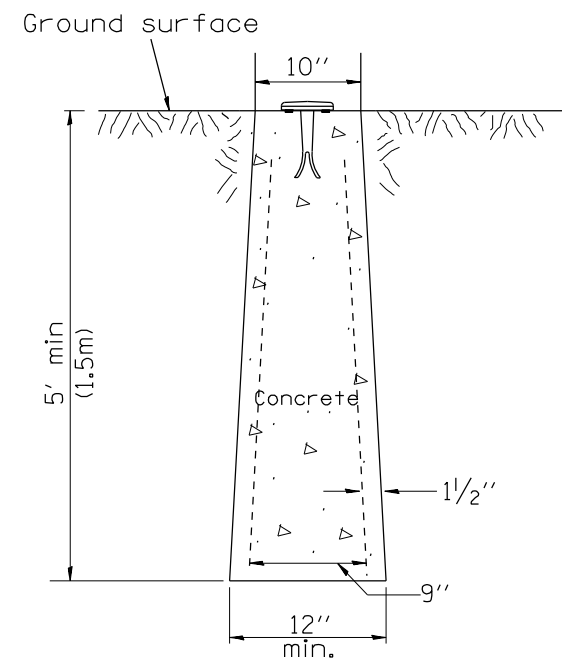


Tablet constructed in rock ledge or concrete.

**TYPE I**

**GENERAL NOTES**

1. All type II markers shall be cast in place, and precast markers will not be allowed.
2. Two permanent magnets, each having a diameter of 3/4 (19) and a thickness of 1/4 (6), or equivalent, shall be attached to the underside of the tablet with an approved epoxy bonding agent.
3. The location of the markers shall be in accordance with the plans in general, the markers will be placed at the P.T.'s, P.C.'s, and P.I.'s located within the R.O.W. of horizontal curves and spaces along the tangents in a way that a minimum of two markers are always inter-visible, and not to exceed 1000' (300m).
4. The markers shall be placed under the direction of the Engineer and shall be installed in a workmanlike manner in order that there will be no further settlement or horizontal shifting. The monuments shall be placed in a way that the survey point will fall within the portion of the plaque provided for that purpose.
5. The project designation, the centerline station, the survey point, and the elevation shall be permanently marked by the use of metal dies after marker has been installed.



**TYPE II  
CAST-IN-PLACE MARKER**

All dimensions are in inches (millimeters) unless otherwise noted.

DESIGNER NOTES:  
 1. ADD DISTRICT SPECIAL PROVISION IF PLACING A TYPE I MARKER ON A STRUCTURE.  
 2. MODIFIES STATE STD 667101. DON'T USE STATE STD IF USING CADD STANDARD  
 3. PERMANENT SURVEY MARKERS SHALL BE PLACED TO PERPETUATE THE SURVEY LINES OF DIVIDED HIGHWAYS AND THE CENTERLINE OF ALL OTHERS WHERE THESE LINES HAVE BEEN ESTABLISHED BY SURVEY.  
 4. PERMANENT SURVEY MARKERS SHALL BE PLACED AT ALL LAND SECTION CORNERS WITHIN THE STATE R.O.W. WHERE THE MONUMENTS HAVE BEEN FOUND OR RELOCATED BY SURVEY.

|          |  |      |          |                         |      |
|----------|--|------|----------|-------------------------|------|
| 01-01-97 | RENUM. D-3.01, NEW REVISION BOX, REVISED | T.P. | 10-16-06 | REVISED TO 2007 SPEC.   | M.A. |
|          | TITLE BOX, ADD DESIGNER NOTE             |      | 01-04-11 | REVISED FOR CORRECTIONS | R.D. |
| 07-07-98 | ADD DESIGNER NOTE                        | J.A. | 08-21-13 | CHANGED MIN. DIAMETER   | R.D. |
| 05-24-06 | REMOVED GEN. NOTE UNDER TIES             | M.A. | 08-25-15 | REVISED MATERIAL        | R.D. |

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

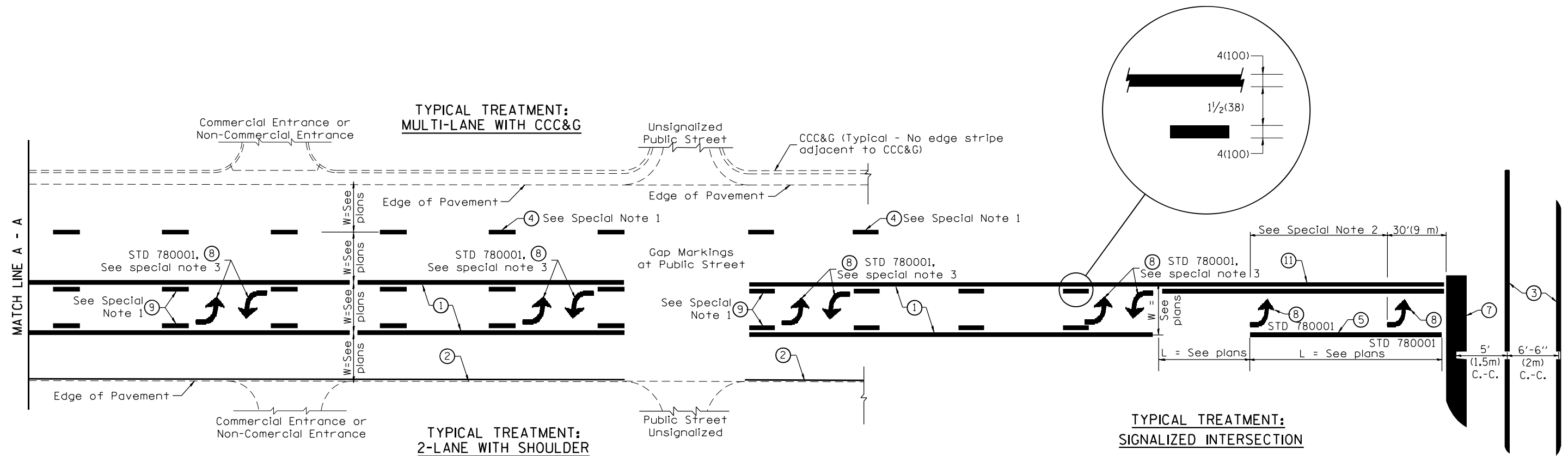
**PERMANENT SURVEY TIE &  
PERMANENT SURVEY MARKERS TY.I - TY.II**

NOT TO SCALE

CADD STD. 667101-D4

| F.A. RTE.                                     | SECTION    | COUNTY | TOTAL SHEETS | SHEET NO. |
|---|------------|--------|--------------|-----------|
| 317A  | (43-BR) BR | FULTON | 263          | 135       |
| CONTRACT NO. 68D34                            |            |        |              |           |
| FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT |            |        |              |           |

DESIGNER NOTES:  
1. Include State Standard 780001 (Typical Pavement Markings)



**FLUSH PAVED MEDIAN: TWO-WAY LEFT TURN LANE  
WITH ONE-WAY LEFT TURN LANE AT SIGNALIZED INTERSECTION**

**TYPICAL PAVEMENT MARKING LEGEND**

(Note: This is a District Standard Legend. Some elements may not apply to specific project.)

- ① 4(100) Solid (Yellow)
- ② 4(100) Solid (White)
- ③ 2-6(150) Crosswalk @ 6'-6" (2m)min C.-C. (White)  
2-8(200) Crosswalk @ 6'-6" (2m)min C.-C. (White) (When traffic signals are present.)
- ④ 6(150) Skip-Dash (White) (See Special Note 1)
- ⑤ 8(200) Solid (White)
- ⑥ 12(300) Diagonal (White) (Item ⑥ is shown on Std. 780001)
- ⑦ 24(600) Stop Bar (White)
- ⑧ Letters & Arrows (See Std. 780001 and Special Notes 2 & 3)
- ⑨ 4(100) Skip-Dash (Yellow) (See Special Note 1)
- ⑩ 12(300) Diagonal (Yellow) (See Table A) (See Table A)
- ⑪ 4(100) Double Solid (Yellow) (See Table A)

**SPECIAL NOTES**

1. Skip-Dash markings will be centered between both ends of city blocks and shall be placed in alignment transversely across the pavement.
2. The following shall apply to arrows located in one-way left turn lanes:
  - A. A minimum of two (2) arrows is required.
  - B. The maximum spacing between arrows is 80' (24 m).
  - C. Arrows shall be evenly spaced if three (3) or more are required.
3. The following shall apply to arrow pairs located in two-way left turn lanes:
  - A. A minimum of two (2) arrow pairs is required.
  - B. The maximum spacing between arrow pairs is 200' (61 m).
  - C. Arrow pairs shall be evenly spaced if three (3) or more are required.
  - D. The spacing between Bi Directional Left Turn Arrows is 33' (10 m).

**GENERAL NOTES**

1. Refer to State Standard 780001 for additional Pavement Markings including letters & arrows.
2. See Plans for Pavement Markings adjacent to curbed islands and medians, and through lane reductions.
3. Refer to Article 780.13 for letter, number and symbol areas (sq. ft.)
4. Areas are grooved 1" beyond each edge for the following symbols:  
Through Arrow= 14.8 sq. ft.  
Large Left or Right Arrow= 21.9 sq. ft.  
2 Arrow Combination Left (or Right) and Through= 34.9 sq. ft.  
Wrong Way Arrow= 29.5 sq. ft.  
Railroad Crossing Symbol= 69.8 sq. ft.  
(For further information, refer to BDE Special Provision: Grooving for Recessed Pavement Markings)

|          |                                  |      |          |                       |      |
|----------|----------------------------------|------|----------|-----------------------|------|
| 01-01-97 | RENUM. F-8.03, NEW REVISION BOX  | T.P. | 10-16-06 | REVISED TO 2007 SPEC. |      |
| 02-07-97 | ADD BI DIRECTIONAL DIMENSION     | J.A. | 2/29/16  | ADDED GROOVING AREAS  | R.D. |
| 10-97    | CORRECT BI DIRECTIONAL DIMENSION | J.A. | 07-16-19 | SPELLING CORRECTIONS  | R.D. |
| 08-02    | ADD CROSSWALK DMNS. WITH T.S.    | M.A. |          |                       |      |

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

NOT TO SCALE

**TYPICAL PAVEMENT MARKINGS**

SHT. 1 OF 2  
CADD STD. 780001-D4

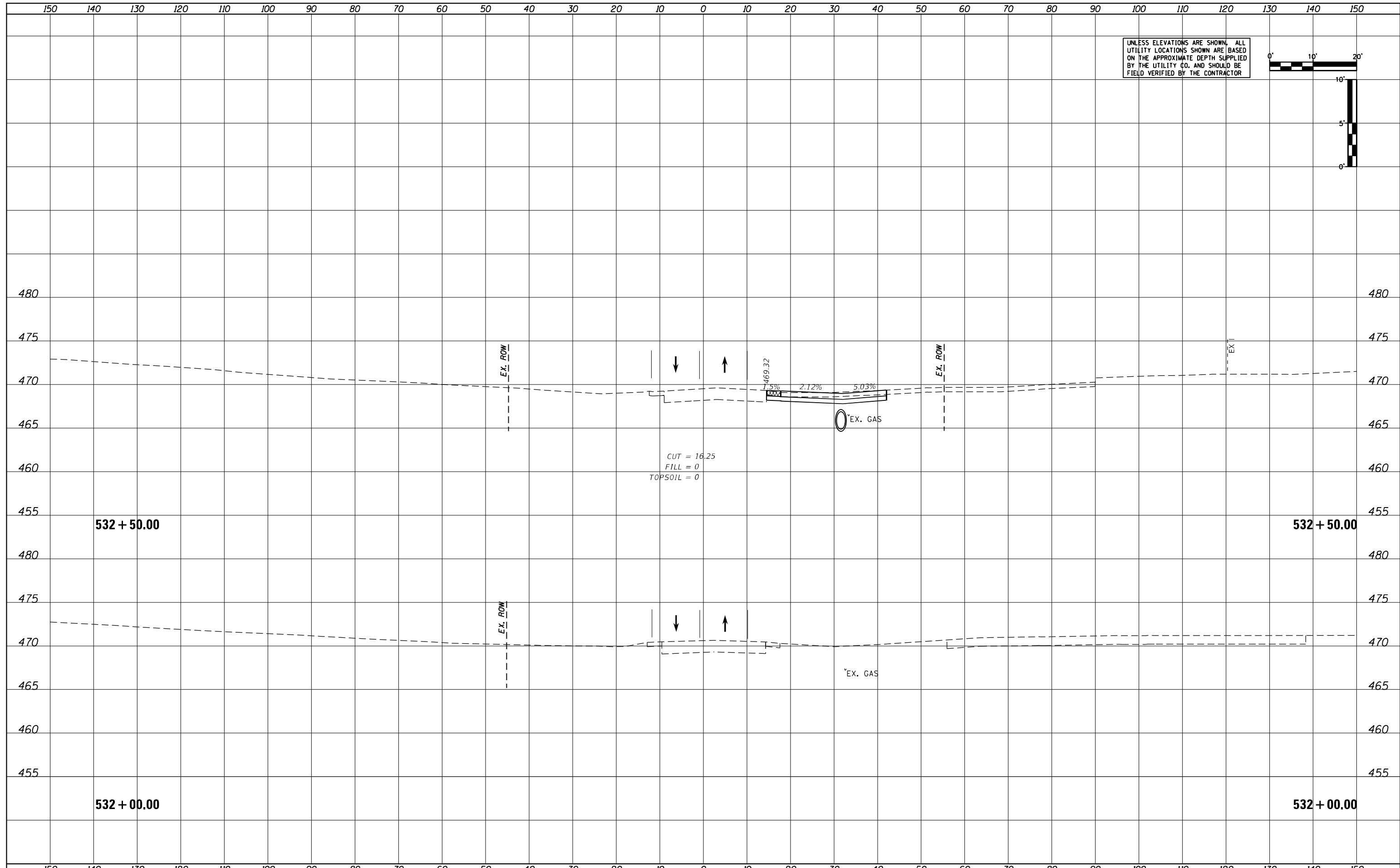
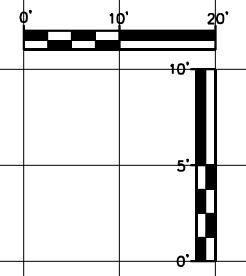
| F.A. RTE.                                     | SECTION    | COUNTY | TOTAL SHEETS | SHEET NO. |
|---|------------|--------|--------------|-----------|
| 317A  | (43-BR) BR | FULTON | 263          | 136       |
| CONTRACT NO. 68D34                            |            |        |              |           |
| FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT |            |        |              |           |



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| AREAS CHECKED |  |
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UNLESS ELEVATIONS ARE SHOWN, ALL UTILITY LOCATIONS SHOWN ARE BASED ON THE APPROXIMATE DEPTH SUPPLIED BY THE UTILITY CO. AND SHOULD BE FIELD VERIFIED BY THE CONTRACTOR



STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

US24 - IL9  
PRE-STAGE CROSS SECTIONS

|                             |                 |           |
|-----------------------------|-----------------|-----------|
| USER NAME = MWEA            | DESIGNED - KMC  | REVISED - |
| PLOT SCALE = 20.0000' / ft. | DRAWN - KRS     | REVISED - |
| PLOT DATE = 3/18/2021       | CHECKED - RDC   | REVISED - |
|                             | DATE - 03/17/21 | REVISED - |

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| SCALE: AS SHOWN | SHEET OF SHEETS | STA. 532+00.00 TO STA. 532+50.00 |
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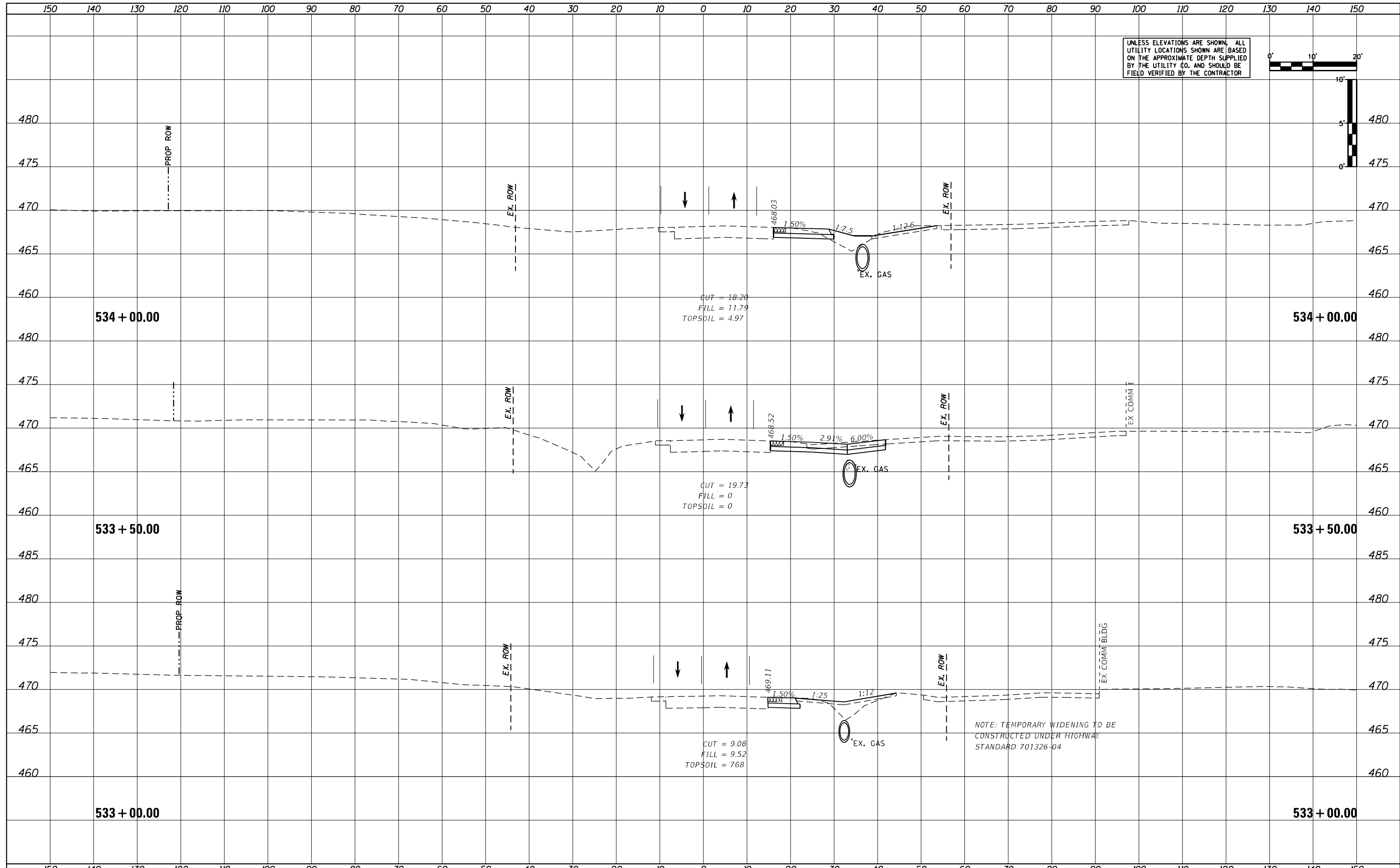
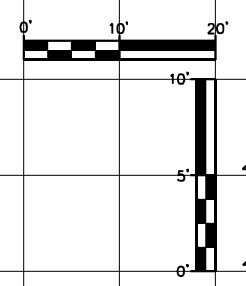
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| F.A.P. RTE. 317A          | SECTION (43-BR) BR | COUNTY FULTON | TOTAL SHEETS 263 | SHEET NO. 138 |
| CONTRACT NO. 68D34        |                    |               |                  |               |
| ILLINOIS FED. AID PROJECT |                    |               |                  |               |



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UNLESS ELEVATIONS ARE SHOWN, ALL UTILITY LOCATIONS SHOWN ARE BASED ON THE APPROXIMATE DEPTH SUPPLIED BY THE UTILITY CO. AND SHOULD BE FIELD VERIFIED BY THE CONTRACTOR



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|-----------------------------|-----------------|-----------|
| USER NAME = MWEA            | DESIGNED - KMC  | REVISED - |
|                             | DRAWN - KRS     | REVISED - |
| PLOT SCALE = 20.0000' / ft. | CHECKED - RDC   | REVISED - |
| PLOT DATE = 3/18/2021       | DATE - 03/17/21 | REVISED - |

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**US24 - IL9  
PRE-STAGE CROSS SECTIONS**

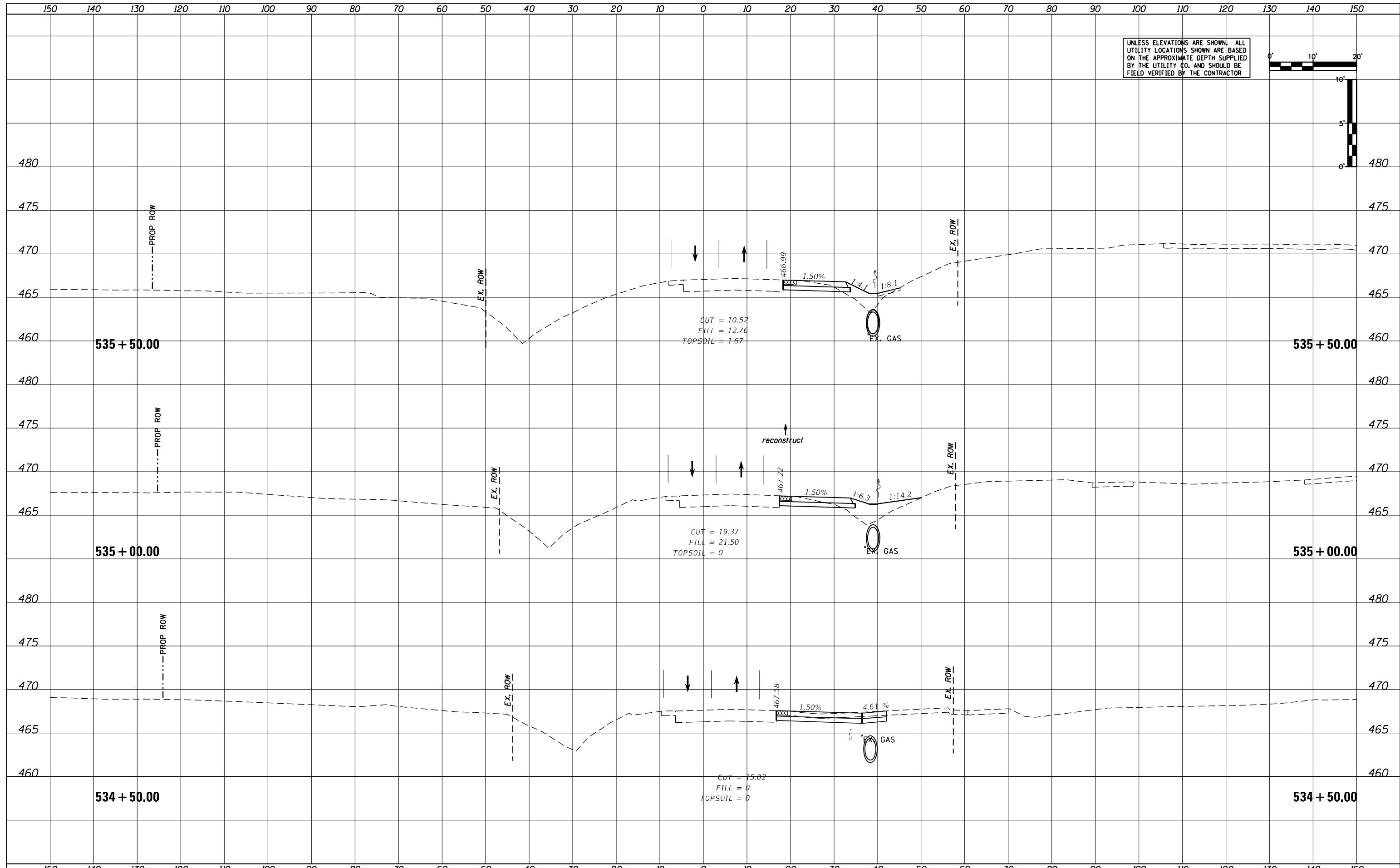
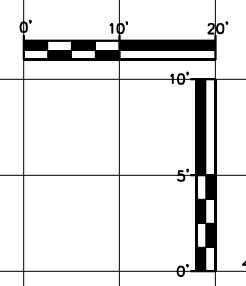
SCALE: AS SHOWN    SHEET OF SHEETS    STA. 533+00.00 TO STA. 534+00.00

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| F.A.P. R.T.E.      | SECTION    | COUNTY           | TOTAL SHEETS | SHEET NO. |
| 317A               | (43-BR) BR | FULTON           | 263          | 139       |
| CONTRACT NO. 68D34 |            |                  |              |           |
| ILLINOIS           |            | FED. AID PROJECT |              |           |

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UNLESS ELEVATIONS ARE SHOWN, ALL UTILITY LOCATIONS SHOWN ARE BASED ON THE APPROXIMATE DEPTH SUPPLIED BY THE UTILITY CO. AND SHOULD BE FIELD VERIFIED BY THE CONTRACTOR



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| USER NAME = MWEA           | DESIGNED - KMC  | REVISED - |
| PLOT SCALE = 20,000' / in. | DRAWN - KRS     | REVISED - |
| PLOT DATE = 3/18/2021      | CHECKED - RDC   | REVISED - |
|                            | DATE - 03/17/21 | REVISED - |

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**US24 - IL9  
PRE-STAGE CROSS SECTIONS**

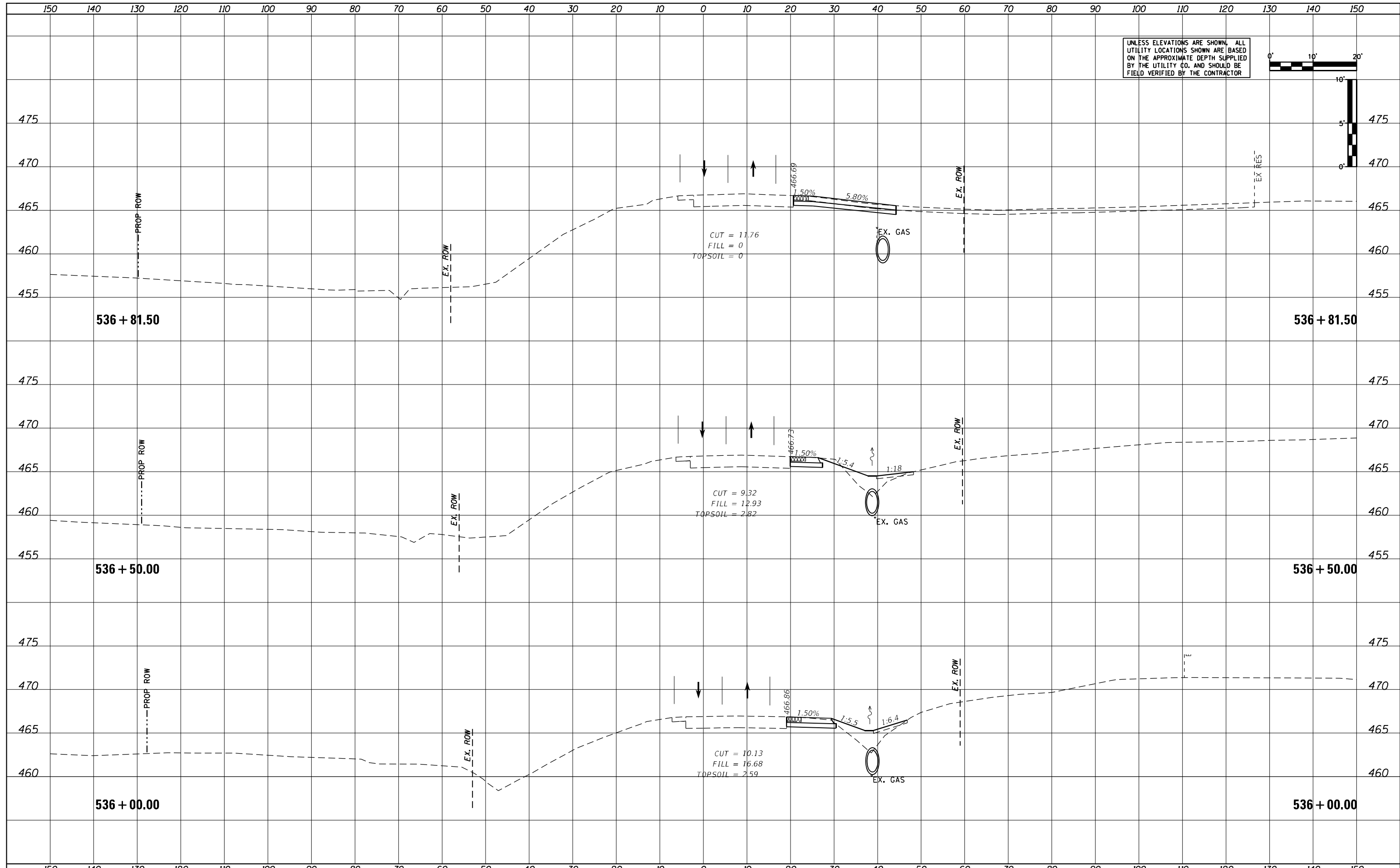
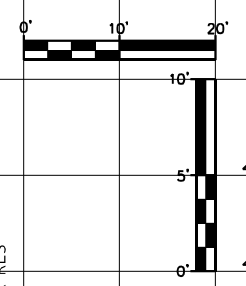
SCALE: AS SHOWN    SHEET    OF    SHEETS    STA. 534+50.00    TO STA. 535+50.00

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| F.A.P. RTE.               | SECTION    | COUNTY | TOTAL SHEETS | SHEET NO. |
| 317A                      | (43-BR) BR | FULTON | 263          | 140       |
| CONTRACT NO. 68D34        |            |        |              |           |
| ILLINOIS FED. AID PROJECT |            |        |              |           |

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UNLESS ELEVATIONS ARE SHOWN, ALL UTILITY LOCATIONS SHOWN ARE BASED ON THE APPROXIMATE DEPTH SUPPLIED BY THE UTILITY CO. AND SHOULD BE FIELD VERIFIED BY THE CONTRACTOR



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| USER NAME = MWEA            | DESIGNED - KMC  | REVISED - |
|                             | DRAWN - KRS     | REVISED - |
| PLOT SCALE = 20.0000' / ft. | CHECKED - RDC   | REVISED - |
| PLOT DATE = 3/18/2021       | DATE - 03/17/21 | REVISED - |

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

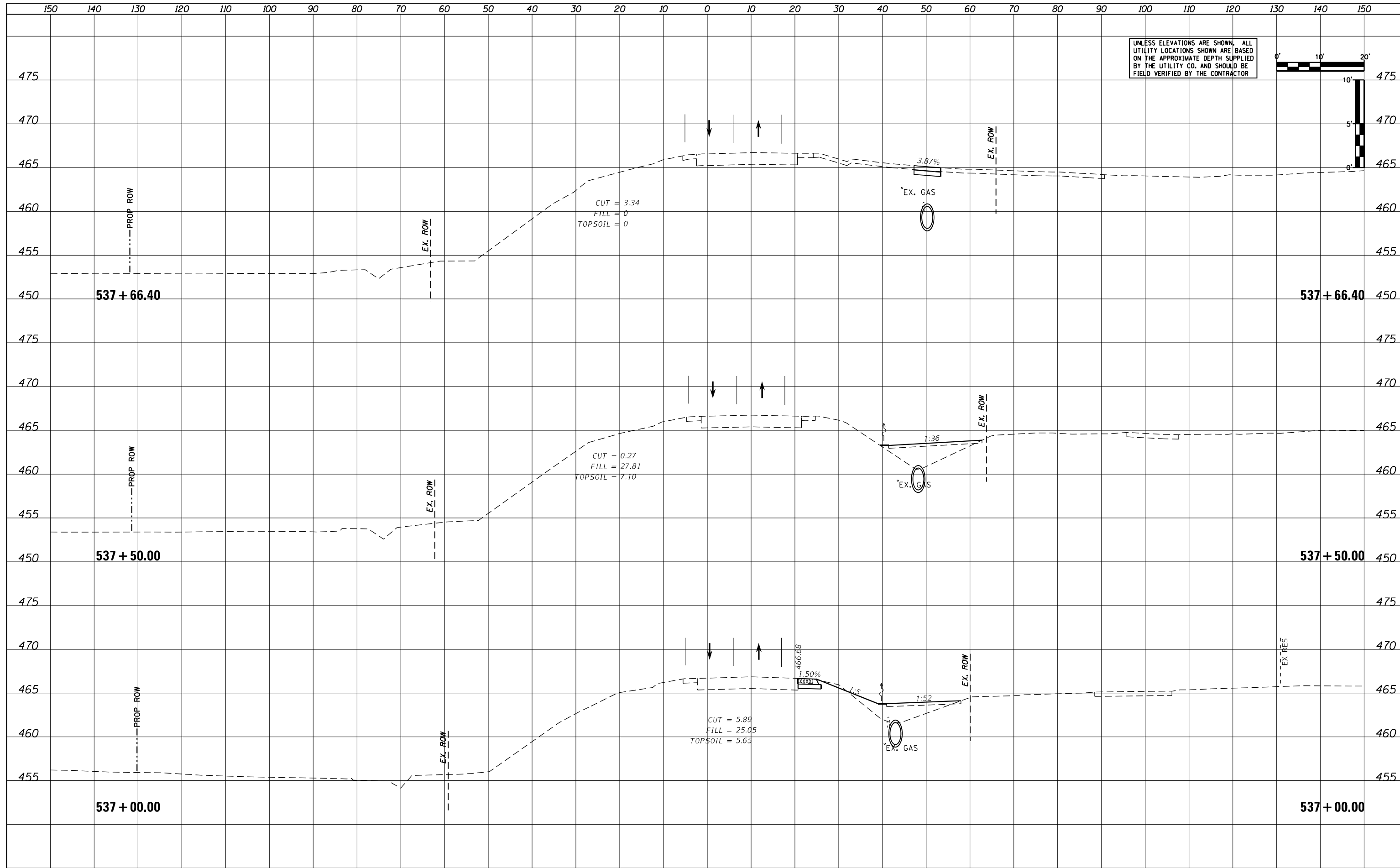
**US24 - IL9  
PRE-STAGE CROSS SECTIONS**

SCALE: AS SHOWN    SHEET    OF    SHEETS    STA. 536+00.00    TO STA. 536+81.50

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|---------------------------|------------|--------|--------------|-----------|
| F.A.P. RTE.               | SECTION    | COUNTY | TOTAL SHEETS | SHEET NO. |
| 317A                      | (43-BR) BR | FULTON | 263          | 141       |
| CONTRACT NO. 68D34        |            |        |              |           |
| ILLINOIS FED. AID PROJECT |            |        |              |           |

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| USER NAME = MWEA            | DESIGNED - KMC  | REVISED - |
| PLOT SCALE = 20.0000' / ft. | DRAWN - KRS     | REVISED - |
| PLOT DATE = 3/18/2021       | CHECKED - RDC   | REVISED - |
|                             | DATE - 03/17/21 | REVISED - |

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**US24 - IL9  
PRE-STAGE CROSS SECTIONS**

SCALE: AS SHOWN    SHEET    OF    SHEETS    STA. 537+00.00    TO STA. 537+66.40

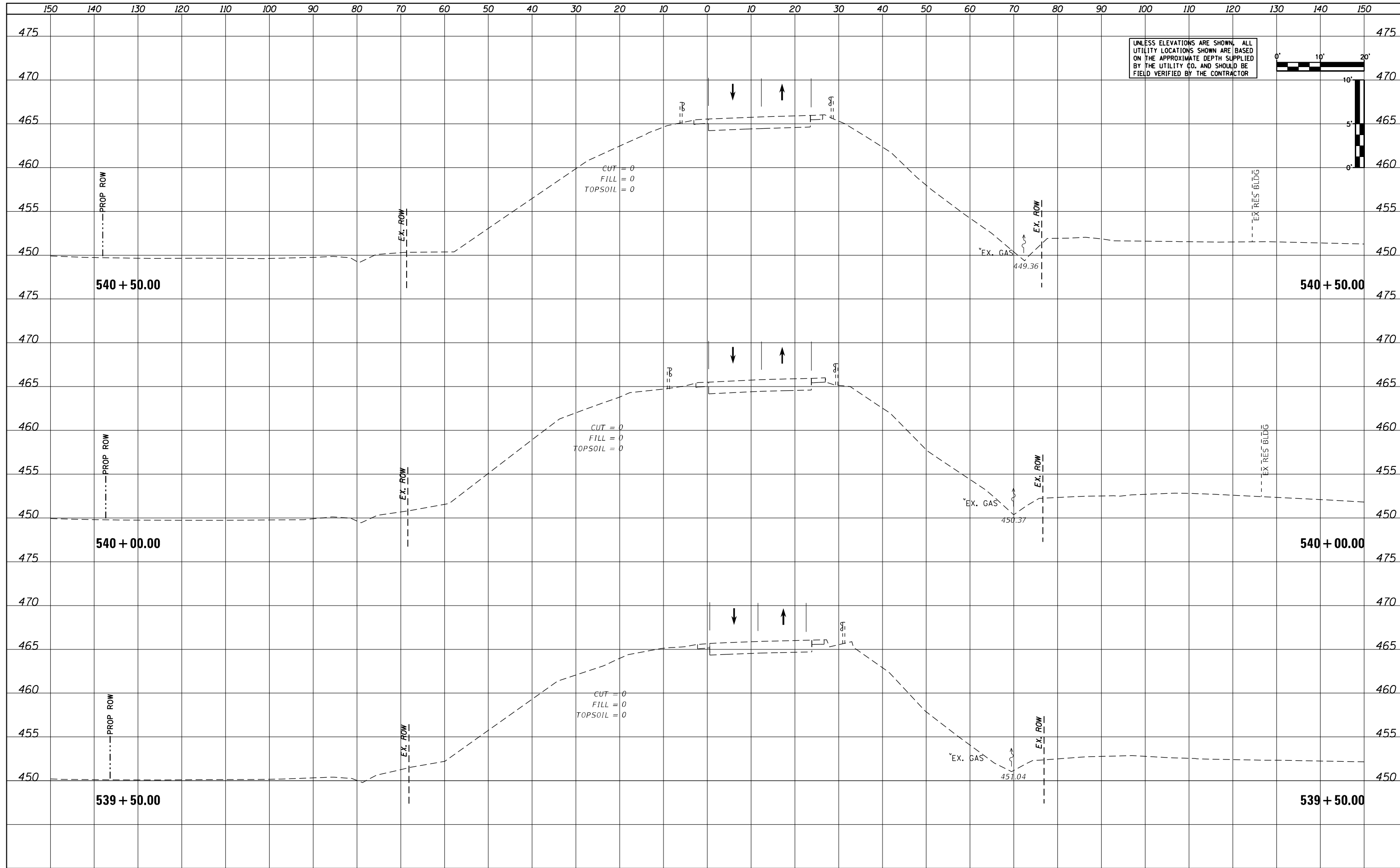
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| F.A.P. RTE.                  | SECTION    | COUNTY | TOTAL SHEETS | SHEET NO. |
| 317A                         | (43-BR) BR | FULTON | 263          | 142       |
| CONTRACT NO. 68D34           |            |        |              |           |
| ILLINOIS    FED. AID PROJECT |            |        |              |           |



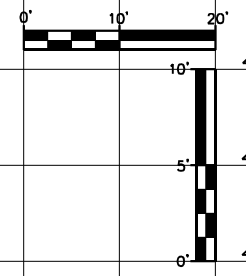


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| AREAS CHECKED |  |
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UNLESS ELEVATIONS ARE SHOWN, ALL UTILITY LOCATIONS SHOWN ARE BASED ON THE APPROXIMATE DEPTH SUPPLIED BY THE UTILITY CO. AND SHOULD BE FIELD VERIFIED BY THE CONTRACTOR



|                             |                 |           |
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| USER NAME = MWEA            | DESIGNED - KMC  | REVISED - |
|                             | DRAWN - KRS     | REVISED - |
| PLOT SCALE = 20.0000' / ft. | CHECKED - RDC   | REVISED - |
| PLOT DATE = 3/18/2021       | DATE - 03/17/21 | REVISED - |

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**US24 - IL9  
PRE-STAGE CROSS SECTIONS**

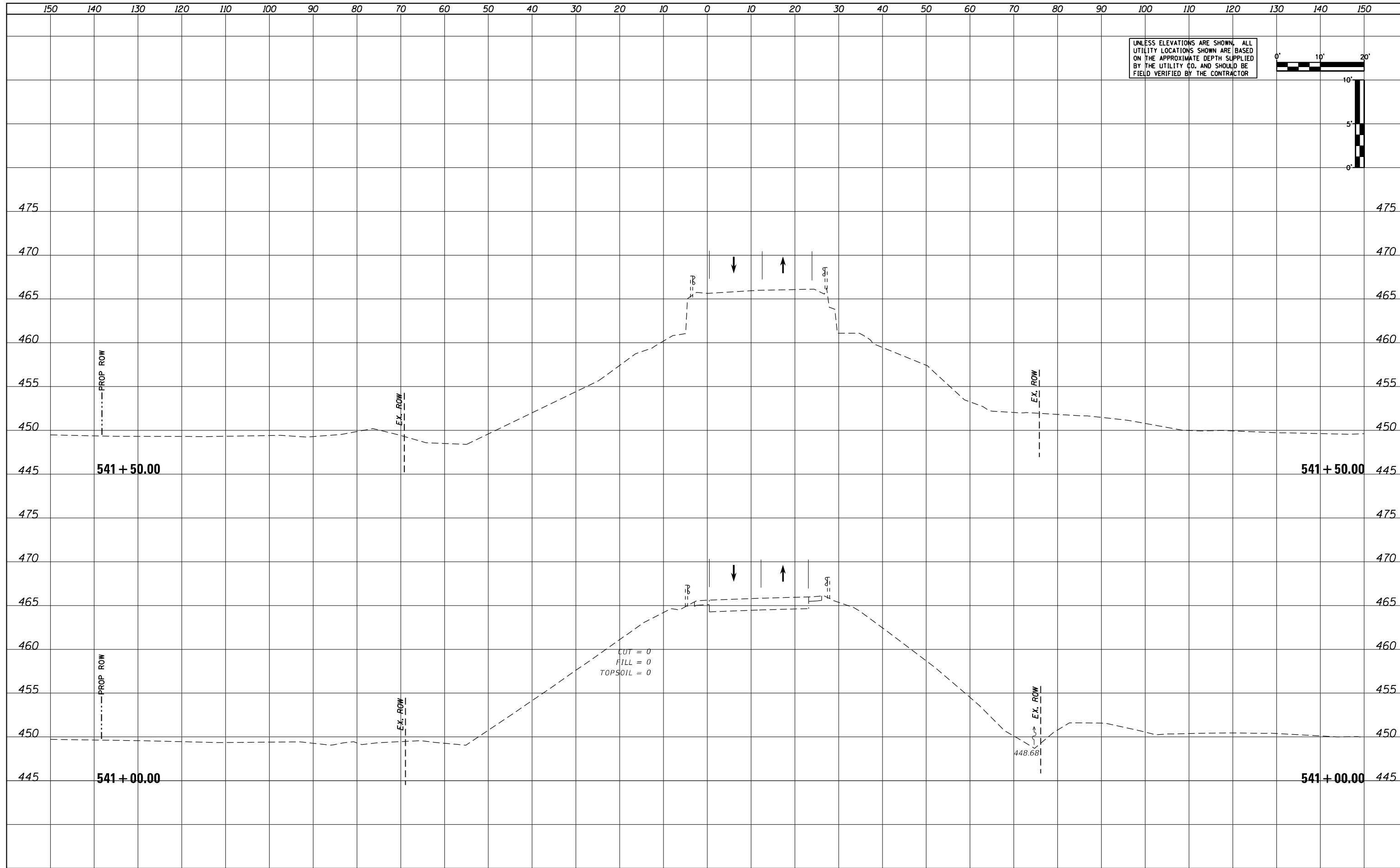
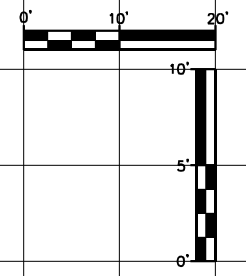
SCALE: AS SHOWN    SHEET    OF    SHEETS    STA. 539+50.00    TO STA. 540+50.00

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| F.A.P. RTE.                  | SECTION    | COUNTY | TOTAL SHEETS | SHEET NO. |
| 317A                         | (43-BR) BR | FULTON | 263          | 144       |
| CONTRACT NO. 68D34           |            |        |              |           |
| ILLINOIS    FED. AID PROJECT |            |        |              |           |

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| DATE          |  |
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| REVISIONS     |  |
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| NOTE BOOK     |  |
| AREAS CHECKED |  |
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| AREAS CHECKED |  |
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UNLESS ELEVATIONS ARE SHOWN, ALL UTILITY LOCATIONS SHOWN ARE BASED ON THE APPROXIMATE DEPTH SUPPLIED BY THE UTILITY CO. AND SHOULD BE FIELD VERIFIED BY THE CONTRACTOR



STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

US24 - IL9  
PRE-STAGE CROSS SECTIONS

|                             |                 |           |
|-----------------------------|-----------------|-----------|
| USER NAME = MWEA            | DESIGNED - KMC  | REVISED - |
| PLOT SCALE = 20.0000' / ft. | DRAWN - KRS     | REVISED - |
| PLOT DATE = 3/18/2021       | CHECKED - RDC   | REVISED - |
|                             | DATE - 03/17/21 | REVISED - |

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| SCALE: AS SHOWN | SHEET OF SHEETS | STA. 541+00.00 TO STA. 541+50.00 |
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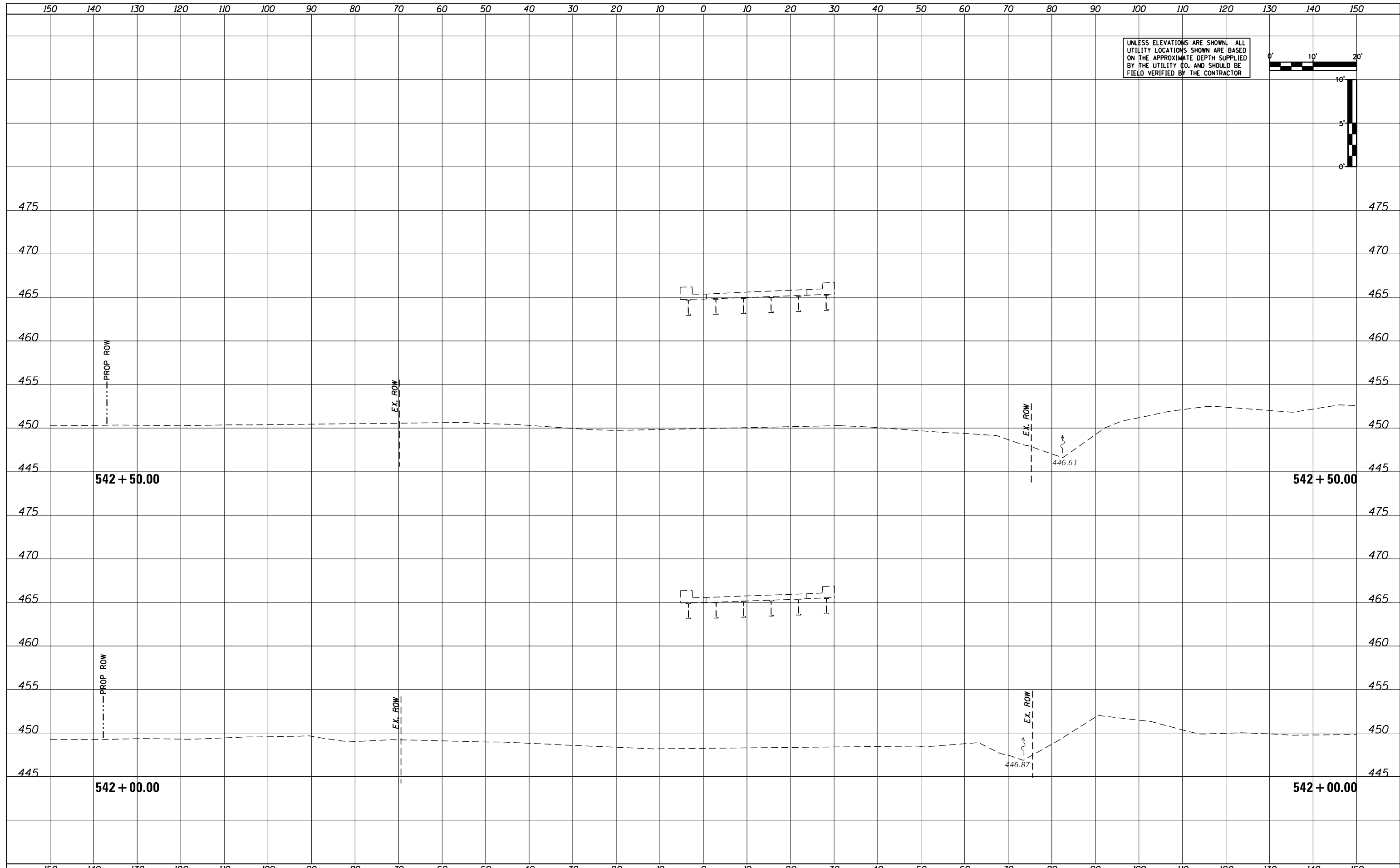
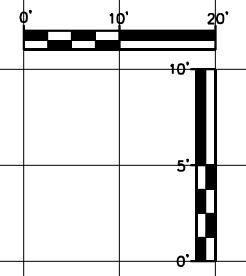
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| F.A.P. RTE. 317A          | SECTION (43-BR) BR | COUNTY FULTON | TOTAL SHEETS 263 | SHEET NO. 146 |
| CONTRACT NO. 68D34        |                    |               |                  |               |
| ILLINOIS FED. AID PROJECT |                    |               |                  |               |



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| AREAS CHECKED |  |
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UNLESS ELEVATIONS ARE SHOWN, ALL UTILITY LOCATIONS SHOWN ARE BASED ON THE APPROXIMATE DEPTH SUPPLIED BY THE UTILITY CO. AND SHOULD BE FIELD VERIFIED BY THE CONTRACTOR



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| USER NAME = MWEA            | DESIGNED - KMC  | REVISED - |
|                             | DRAWN - KRS     | REVISED - |
| PLOT SCALE = 20.0000' / ft. | CHECKED - RDC   | REVISED - |
| PLOT DATE = 3/18/2021       | DATE - 03/17/21 | REVISED - |

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

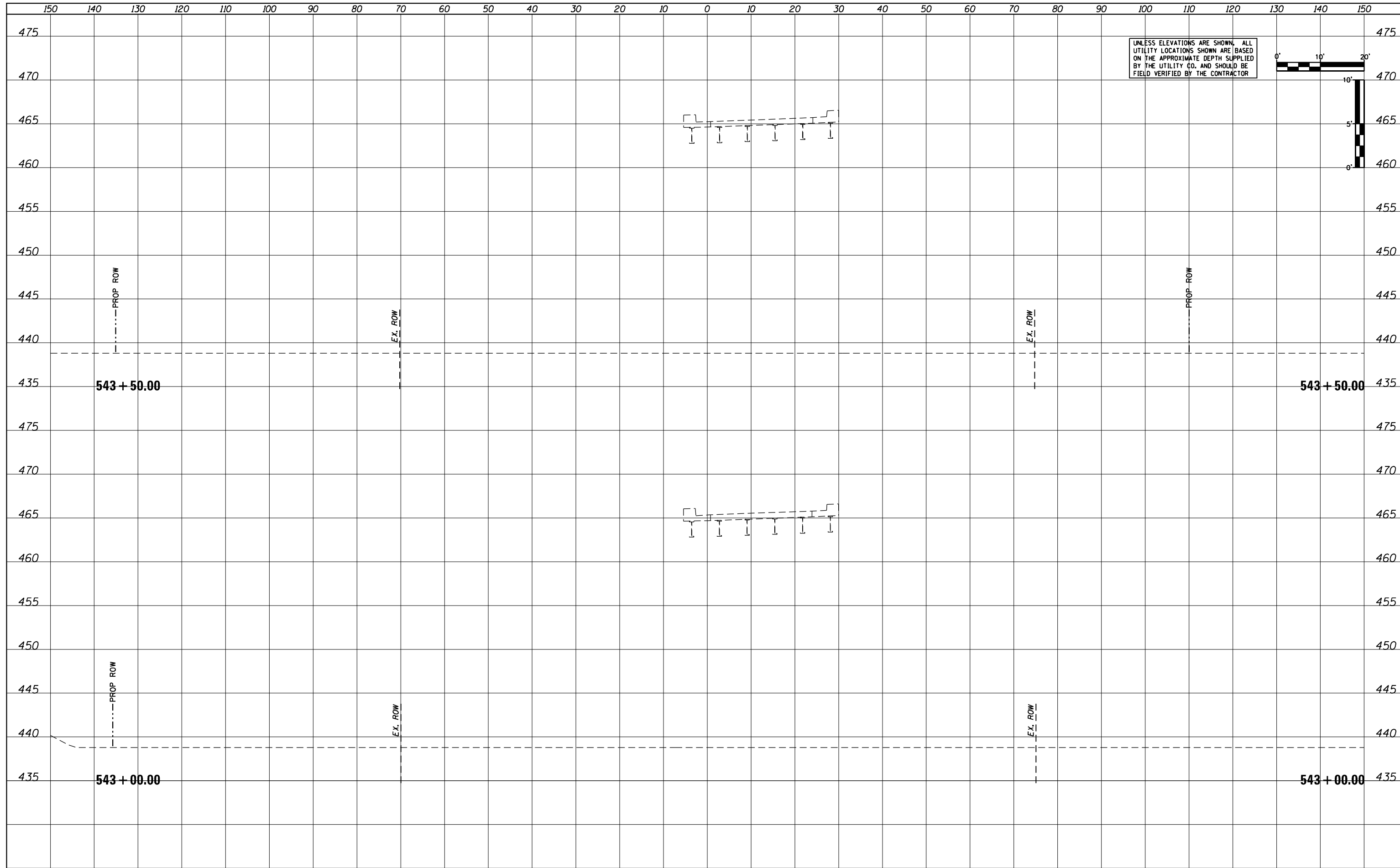
**US24 - IL9  
PRE-STAGE CROSS SECTIONS**

SCALE: AS SHOWN    SHEET    OF    SHEETS    STA. 542+00.00    TO STA. 542+50.00

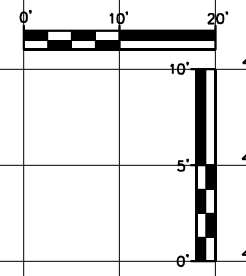
|                           |            |        |              |           |
|---------------------------|------------|--------|--------------|-----------|
| F.A.P. RTE.               | SECTION    | COUNTY | TOTAL SHEETS | SHEET NO. |
| 317A                      | (43-BR) BR | FULTON | 263          | 146       |
| CONTRACT NO. 68D34        |            |        |              |           |
| ILLINOIS FED. AID PROJECT |            |        |              |           |

|               |  |
|---------------|--|
| DATE          |  |
| BY            |  |
| APPROVED      |  |
| SURVEY        |  |
| PLOTTED       |  |
| TEMPLATE      |  |
| NOTE BOOK     |  |
| AREAS CHECKED |  |
| NO.           |  |

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| DATE          |  |
| BY            |  |
| APPROVED      |  |
| SURVEY        |  |
| PLOTTED       |  |
| TEMPLATE      |  |
| NOTE BOOK     |  |
| AREAS CHECKED |  |
| NO.           |  |



UNLESS ELEVATIONS ARE SHOWN, ALL UTILITY LOCATIONS SHOWN ARE BASED ON THE APPROXIMATE DEPTH SUPPLIED BY THE UTILITY CO. AND SHOULD BE FIELD VERIFIED BY THE CONTRACTOR



|                             |                 |           |
|-----------------------------|-----------------|-----------|
| USER NAME = MWEA            | DESIGNED - KMC  | REVISED - |
|                             | DRAWN - KRS     | REVISED - |
| PLOT SCALE = 20.0000' / ft. | CHECKED - RDC   | REVISED - |
| PLOT DATE = 3/18/2021       | DATE - 03/17/21 | REVISED - |

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

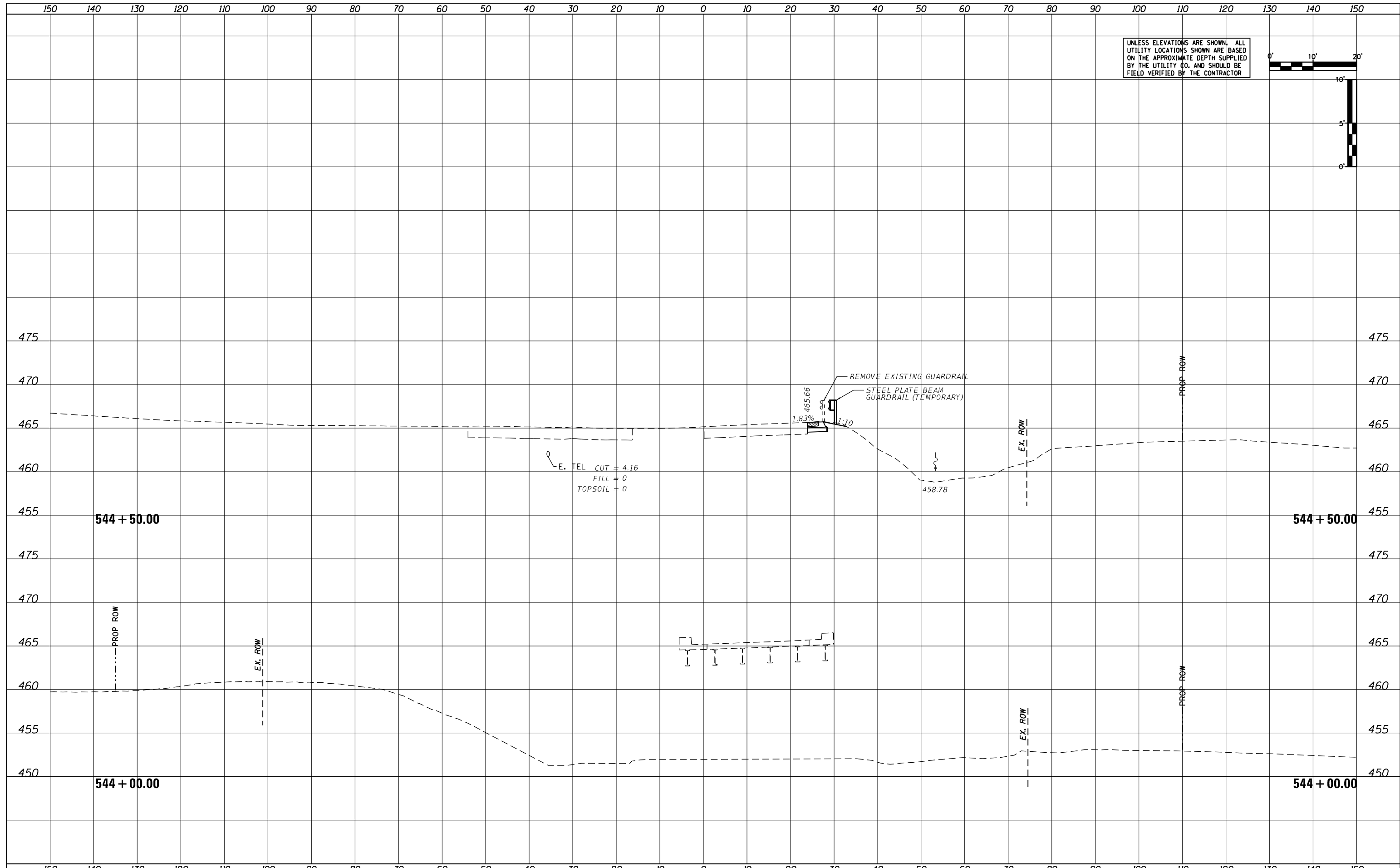
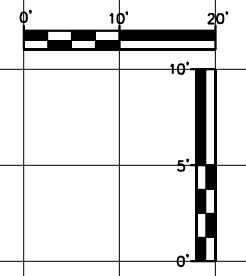
|  |       |           |                                  |
|--|-------|-----------|----------------------------------|
| <b>US24 - IL9<br/>PRE-STAGE CROSS SECTIONS</b> |       |           |                                  |
| SCALE: AS SHOWN                                | SHEET | OF SHEETS | STA. 543+00.00 TO STA. 543+50.00 |

|                           |            |        |              |           |
|---------------------------|------------|--------|--------------|-----------|
| F.A.P. RTE.               | SECTION    | COUNTY | TOTAL SHEETS | SHEET NO. |
| 317A                      | (43-BR) BR | FULTON | 263          | 147       |
| CONTRACT NO. 68D34        |            |        |              |           |
| ILLINOIS FED. AID PROJECT |            |        |              |           |

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| DATE          |  |
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| PLOTTED       |  |
| TEMPLATE      |  |
| AREAS CHECKED |  |
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| DATE          |  |
| BY            |  |
| REVISED       |  |
| PLOTTED       |  |
| TEMPLATE      |  |
| AREAS CHECKED |  |
| NO.           |  |

UNLESS ELEVATIONS ARE SHOWN, ALL UTILITY LOCATIONS SHOWN ARE BASED ON THE APPROXIMATE DEPTH SUPPLIED BY THE UTILITY CO. AND SHOULD BE FIELD VERIFIED BY THE CONTRACTOR



|                             |                 |           |
|-----------------------------|-----------------|-----------|
| USER NAME = MWEA            | DESIGNED - KMC  | REVISED - |
|                             | DRAWN - KRS     | REVISED - |
| PLOT SCALE = 20.0000' / ft. | CHECKED - RDC   | REVISED - |
| PLOT DATE = 3/18/2021       | DATE - 03/17/21 | REVISED - |

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

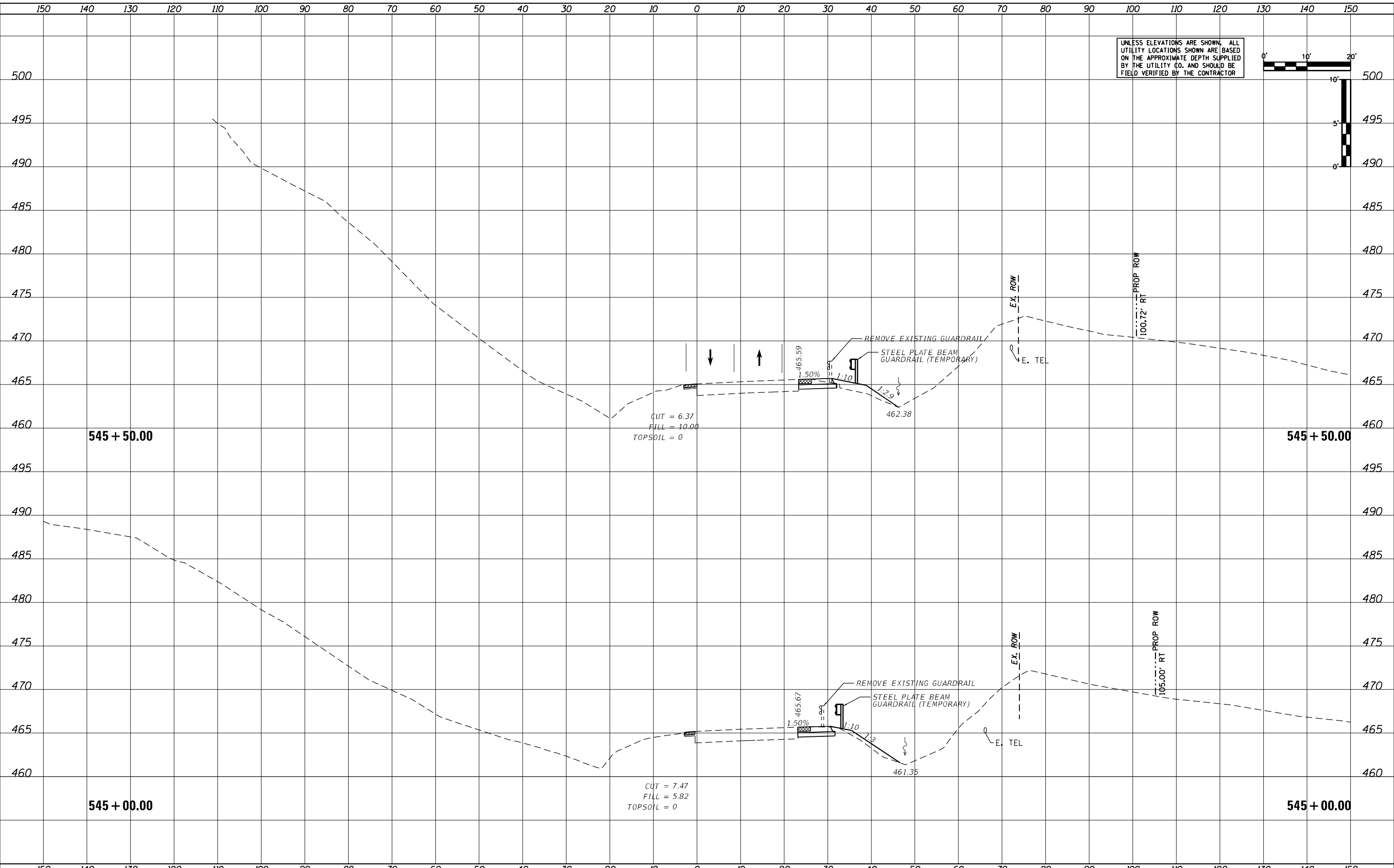
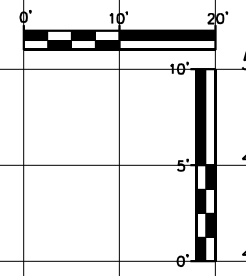
|   |                   |
|---|-------------------|
| <b>US24 - IL9<br/>   PRE-STAGE CROSS SECTIONS</b> |                   |
| SCALE: AS SHOWN                                   | SHEET OF SHEETS   |
| STA. 544+00.00                                    | TO STA. 544+50.00 |

|                    |            |                  |              |           |
|--------------------|------------|------------------|--------------|-----------|
| F.A.P. RTE.        | SECTION    | COUNTY           | TOTAL SHEETS | SHEET NO. |
| 317A               | (43-BR) BR | FULTON           | 263          | 148       |
| CONTRACT NO. 68D34 |            |                  |              |           |
| ILLINOIS           |            | FED. AID PROJECT |              |           |

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| DATE          |  |
| BY            |  |
| SURVEY        |  |
| PLOTTED       |  |
| TEMPLATE      |  |
| NOTE BOOK     |  |
| AREAS CHECKED |  |
| NO.           |  |

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| DATE          |  |
| BY            |  |
| SURVEY        |  |
| PLOTTED       |  |
| TEMPLATE      |  |
| NOTE BOOK     |  |
| AREAS CHECKED |  |
| NO.           |  |

UNLESS ELEVATIONS ARE SHOWN, ALL UTILITY LOCATIONS SHOWN ARE BASED ON THE APPROXIMATE DEPTH SUPPLIED BY THE UTILITY CO. AND SHOULD BE FIELD VERIFIED BY THE CONTRACTOR



|                             |                 |           |
|-----------------------------|-----------------|-----------|
| USER NAME = MWEA            | DESIGNED - KMC  | REVISED - |
|                             | DRAWN - KRS     | REVISED - |
| PLOT SCALE = 20.0000' / ft. | CHECKED - RDC   | REVISED - |
| PLOT DATE = 3/18/2021       | DATE - 03/17/21 | REVISED - |

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

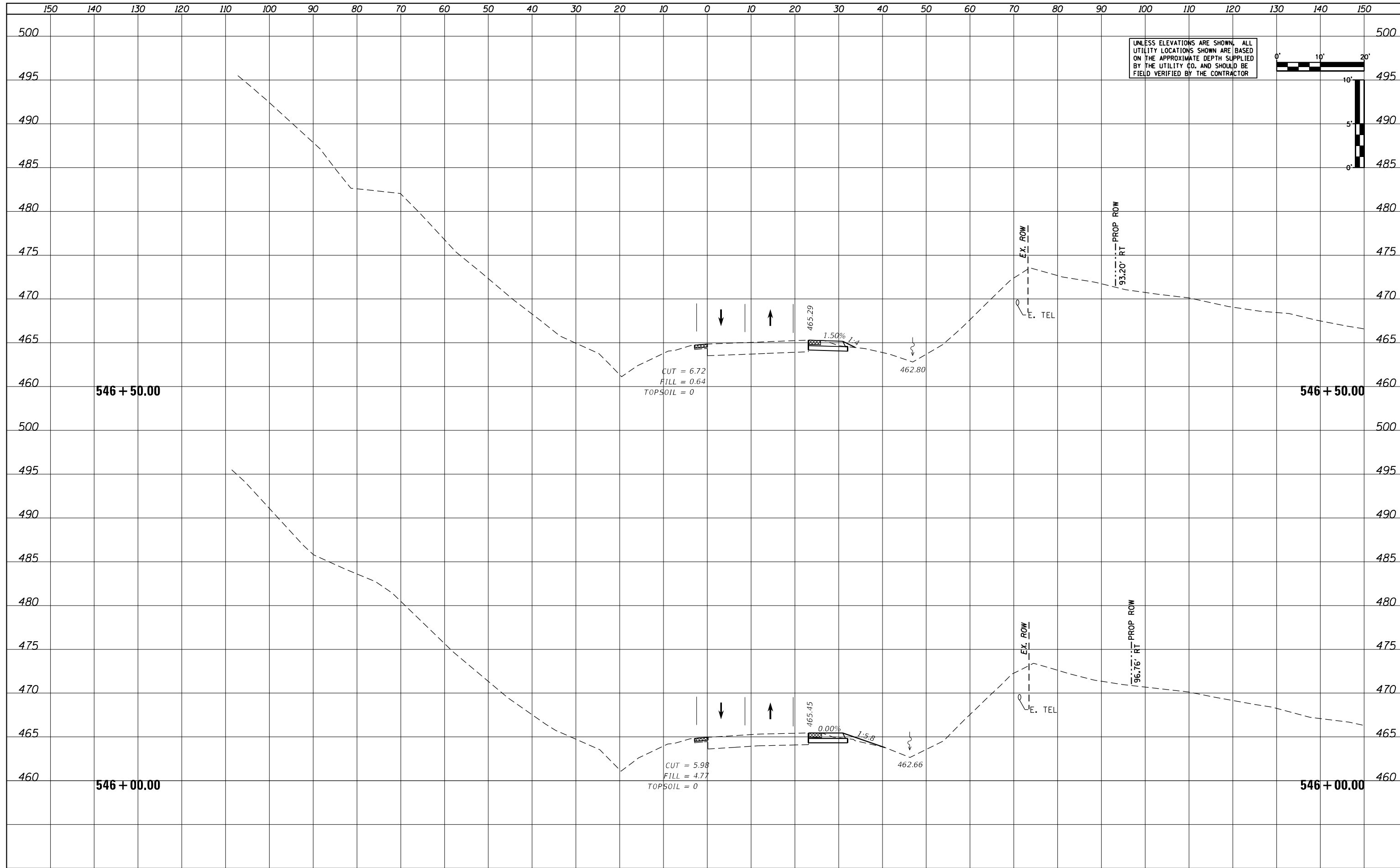
**US24 - IL9  
PRE-STAGE CROSS SECTIONS**

SCALE: AS SHOWN    SHEET    OF    SHEETS    STA. 545+00.00    TO STA. 545+50.00

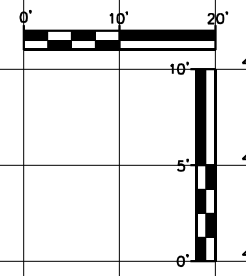
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|---------------------------|------------|--------|--------------|-----------|
| F.A.P. RTE.               | SECTION    | COUNTY | TOTAL SHEETS | SHEET NO. |
| 317A                      | (43-BR) BR | FULTON | 263          | 149       |
| CONTRACT NO. 68D34        |            |        |              |           |
| ILLINOIS FED. AID PROJECT |            |        |              |           |

|               |  |
|---------------|--|
| DATE          |  |
| BY            |  |
| SURVEY        |  |
| PLOTTED       |  |
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| AREAS         |  |
| AREAS CHECKED |  |
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|---------------|--|
| DATE          |  |
| BY            |  |
| SURVEY        |  |
| PLOTTED       |  |
| TEMPLATE      |  |
| AREAS         |  |
| AREAS CHECKED |  |
| NO.           |  |



UNLESS ELEVATIONS ARE SHOWN, ALL UTILITY LOCATIONS SHOWN ARE BASED ON THE APPROXIMATE DEPTH SUPPLIED BY THE UTILITY CO. AND SHOULD BE FIELD VERIFIED BY THE CONTRACTOR



|                             |                 |           |
|-----------------------------|-----------------|-----------|
| USER NAME = MWEA            | DESIGNED - KMC  | REVISED - |
|                             | DRAWN - KRS     | REVISED - |
| PLOT SCALE = 20.0000' / ft. | CHECKED - RDC   | REVISED - |
| PLOT DATE = 3/18/2021       | DATE - 03/17/21 | REVISED - |

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

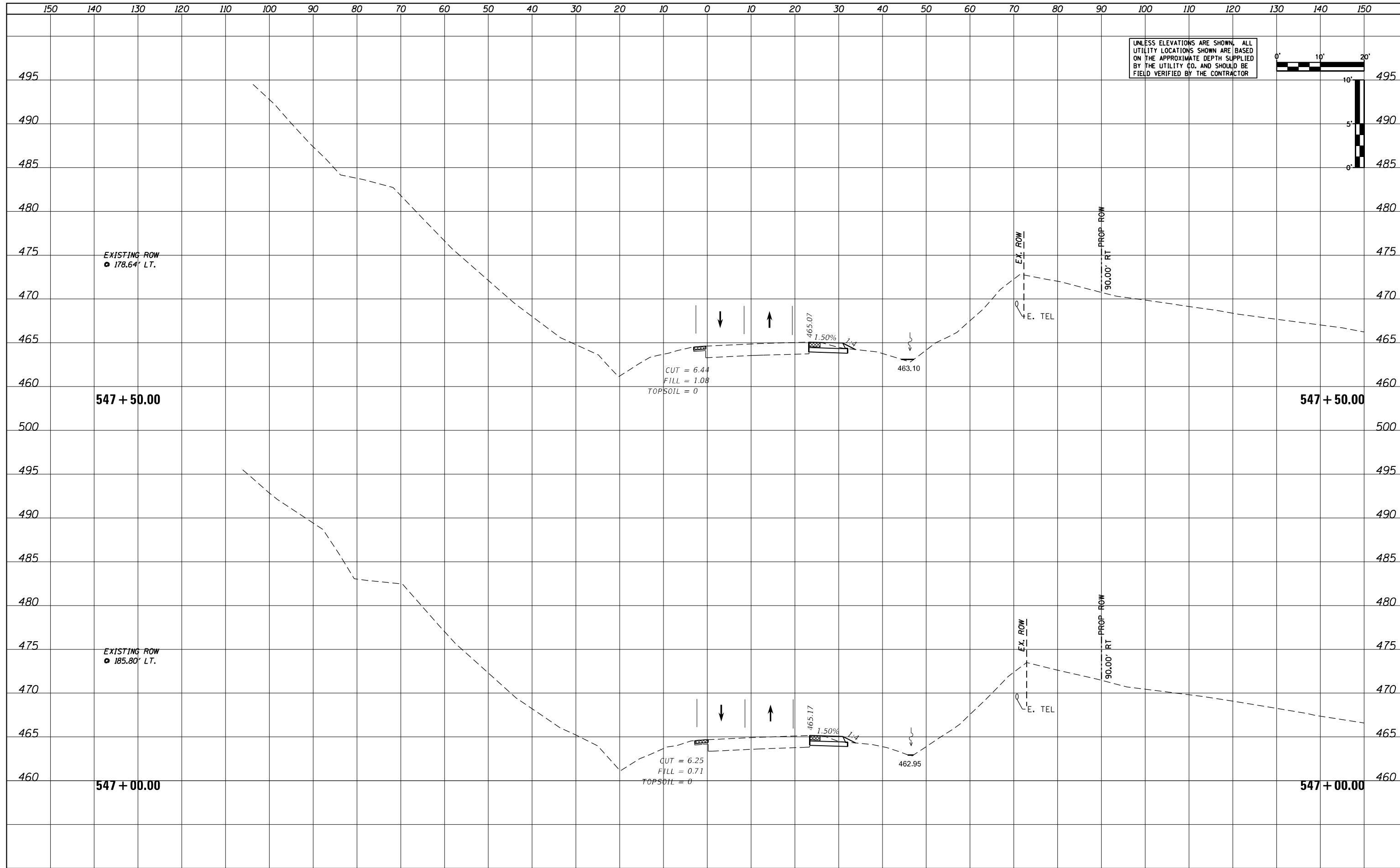
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|--------------------------|-----------------|----------------|-------------------|--------|--------------------|-----------|
| US24 - IL9               |                 | F.A.P. RTE.    | SECTION           | COUNTY | TOTAL SHEETS       | SHEET NO. |
| PRE-STAGE CROSS SECTIONS |                 | 317A           | (43-BR) BR        | FULTON | 263                | 150       |
| SCALE: AS SHOWN          | SHEET OF SHEETS | STA. 546+00.00 | TO STA. 546+50.00 |        | CONTRACT NO. 68D34 |           |

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| ILLINOIS | FED. AID PROJECT |
|----------|------------------|

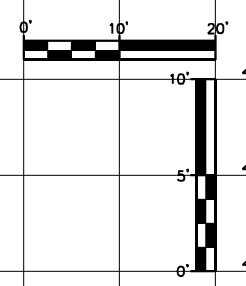


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| DATE            |  |
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| TEMPLATE        |  |
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| NO.             |  |
| ORIGINAL SURVEY |  |
| NOTE BOOK       |  |
| NO.             |  |

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| DATE            |  |
| BY              |  |
| REVISED         |  |
| PLOTTED         |  |
| TEMPLATE        |  |
| AREAS CHECKED   |  |
| NO.             |  |
| ORIGINAL SURVEY |  |
| NOTE BOOK       |  |
| NO.             |  |



UNLESS ELEVATIONS ARE SHOWN, ALL UTILITY LOCATIONS SHOWN ARE BASED ON THE APPROXIMATE DEPTH SUPPLIED BY THE UTILITY CO. AND SHOULD BE FIELD VERIFIED BY THE CONTRACTOR



|                             |                 |           |
|-----------------------------|-----------------|-----------|
| USER NAME = MWEA            | DESIGNED - KMC  | REVISED - |
|                             | DRAWN - KRS     | REVISED - |
| PLOT SCALE = 20.0000' / ft. | CHECKED - RDC   | REVISED - |
| PLOT DATE = 3/18/2021       | DATE - 03/17/21 | REVISED - |

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

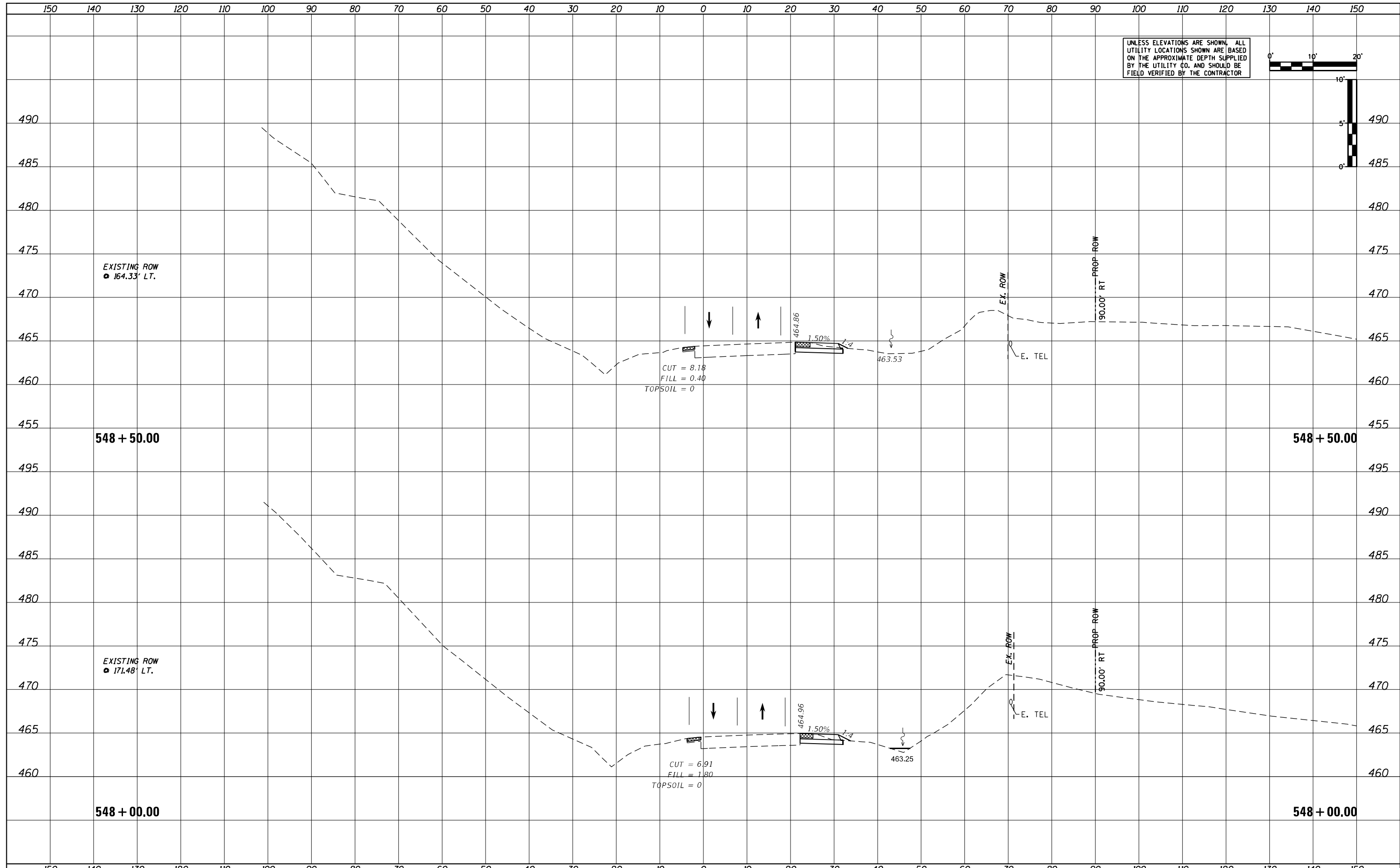
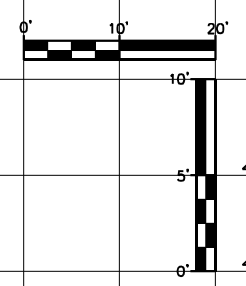
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|---------------------------------|-------------------|
| <b>US24 - IL9</b>               |                   |
| <b>PRE-STAGE CROSS SECTIONS</b> |                   |
| SCALE: AS SHOWN                 | SHEET OF SHEETS   |
| STA. 547+00.00                  | TO STA. 547+50.00 |

|                    |            |                  |              |           |
|--------------------|------------|------------------|--------------|-----------|
| F.A.P. RTE.        | SECTION    | COUNTY           | TOTAL SHEETS | SHEET NO. |
| 317A               | (43-BR) BR | FULTON           | 263          | 151       |
| CONTRACT NO. 68D34 |            |                  |              |           |
| ILLINOIS           |            | FED. AID PROJECT |              |           |

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| DATE          |  |
| BY            |  |
| SURVEY        |  |
| PLOTTED       |  |
| TEMPLATE      |  |
| NOTE BOOK     |  |
| AREAS CHECKED |  |
| NO.           |  |

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| DATE          |  |
| BY            |  |
| SURVEY        |  |
| PLOTTED       |  |
| TEMPLATE      |  |
| NOTE BOOK     |  |
| AREAS CHECKED |  |
| NO.           |  |

UNLESS ELEVATIONS ARE SHOWN, ALL UTILITY LOCATIONS SHOWN ARE BASED ON THE APPROXIMATE DEPTH SUPPLIED BY THE UTILITY CO. AND SHOULD BE FIELD VERIFIED BY THE CONTRACTOR



|                             |                 |           |
|-----------------------------|-----------------|-----------|
| USER NAME = MWEA            | DESIGNED - KMC  | REVISED - |
|                             | DRAWN - KRS     | REVISED - |
| PLOT SCALE = 20.0000' / ft. | CHECKED - RDC   | REVISED - |
| PLOT DATE = 3/18/2021       | DATE - 03/17/21 | REVISED - |

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**US24 - IL9  
PRE-STAGE CROSS SECTIONS**

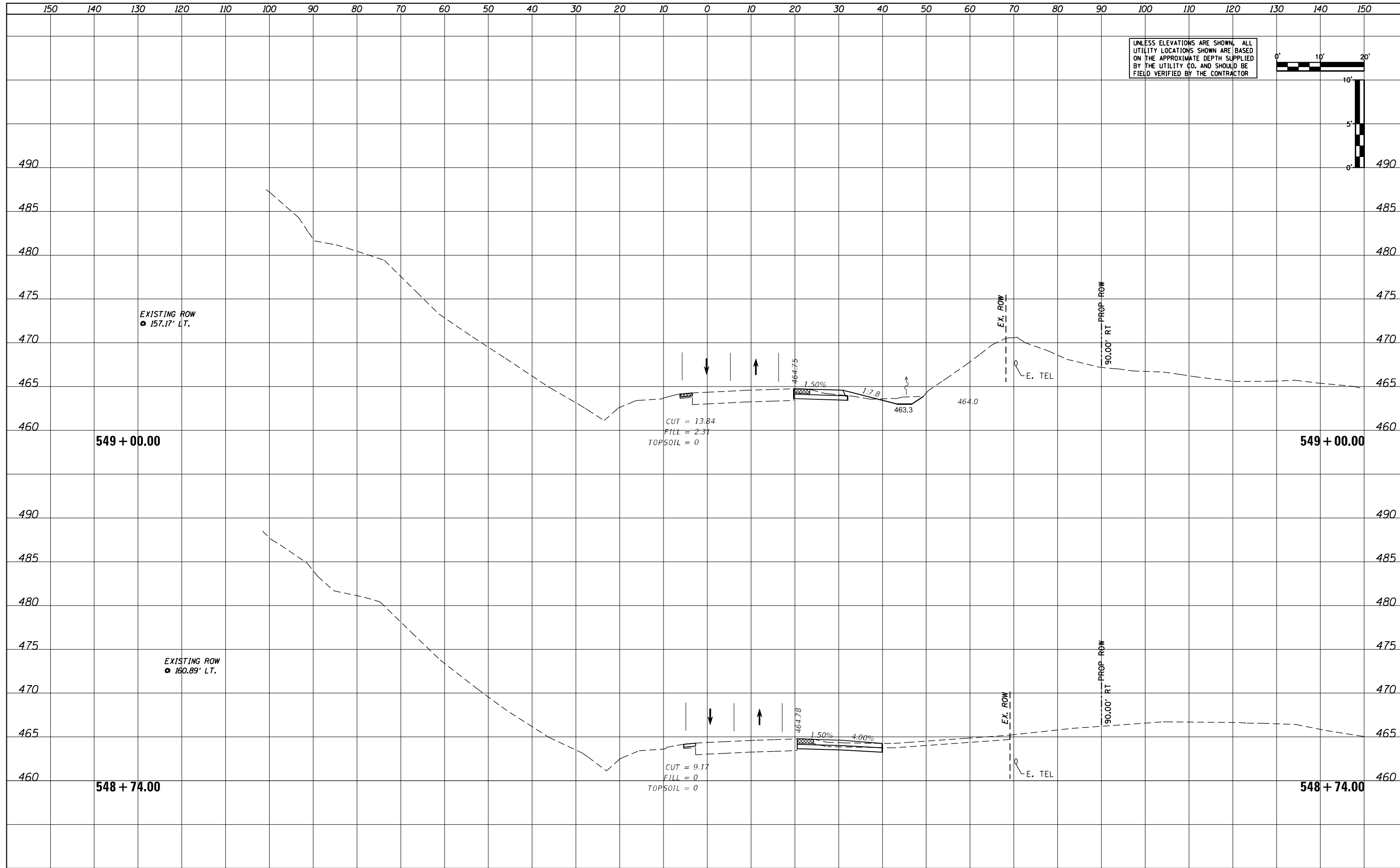
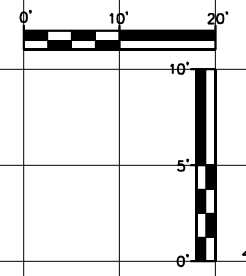
SCALE: AS SHOWN    SHEET    OF    SHEETS    STA. 548+00.00    TO STA. 548+50.00

|                           |            |        |              |           |
|---------------------------|------------|--------|--------------|-----------|
| F.A.P. RTE.               | SECTION    | COUNTY | TOTAL SHEETS | SHEET NO. |
| 317A                      | (43-BR) BR | FULTON | 263          | 152       |
| CONTRACT NO. 68D34        |            |        |              |           |
| ILLINOIS FED. AID PROJECT |            |        |              |           |

|               |  |
|---------------|--|
| DATE          |  |
| BY            |  |
| SUPPRESSED    |  |
| PLOTTED       |  |
| TEMPLATE      |  |
| NOTE BOOK     |  |
| AREAS CHECKED |  |
| NO.           |  |

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| DATE          |  |
| BY            |  |
| SUPPRESSED    |  |
| PLOTTED       |  |
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| NOTE BOOK     |  |
| AREAS CHECKED |  |
| NO.           |  |

UNLESS ELEVATIONS ARE SHOWN, ALL UTILITY LOCATIONS SHOWN ARE BASED ON THE APPROXIMATE DEPTH SUPPLIED BY THE UTILITY CO. AND SHOULD BE FIELD VERIFIED BY THE CONTRACTOR



|                             |                 |           |
|-----------------------------|-----------------|-----------|
| USER NAME = MWEA            | DESIGNED - KMC  | REVISED - |
|                             | DRAWN - KRS     | REVISED - |
| PLOT SCALE = 20.0000' / ft. | CHECKED - RDC   | REVISED - |
| PLOT DATE = 3/18/2021       | DATE - 03/17/21 | REVISED - |

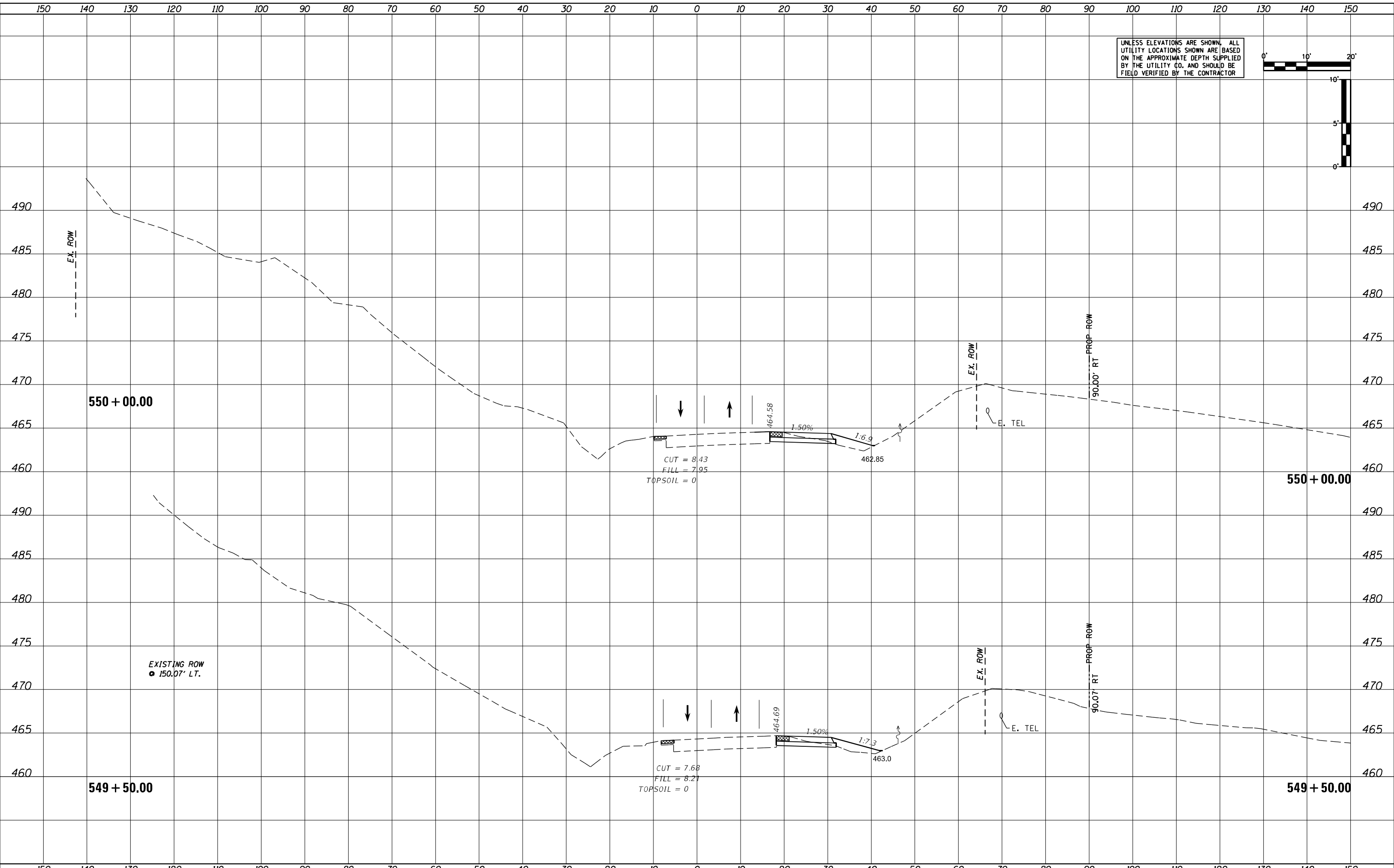
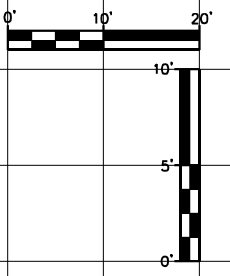
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**US24 - IL9  
PRE-STAGE CROSS SECTIONS**

SCALE: AS SHOWN    SHEET    OF    SHEETS    STA. 548+74.00    TO STA. 549+00.00

|                           |            |        |              |           |
|---------------------------|------------|--------|--------------|-----------|
| F.A.P. RTE.               | SECTION    | COUNTY | TOTAL SHEETS | SHEET NO. |
| 317A                      | (43-BR) BR | FULTON | 263          | 153       |
| CONTRACT NO. 68D34        |            |        |              |           |
| ILLINOIS FED. AID PROJECT |            |        |              |           |

UNLESS ELEVATIONS ARE SHOWN, ALL UTILITY LOCATIONS SHOWN ARE BASED ON THE APPROXIMATE DEPTH SUPPLIED BY THE UTILITY CO. AND SHOULD BE FIELD VERIFIED BY THE CONTRACTOR



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| BY            | DATE |
| SURVEY        |      |
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| TEMPLATE      |      |
| NOTE BOOK     |      |
| AREAS CHECKED |      |

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| BY            | DATE |
| SURVEY        |      |
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| TEMPLATE      |      |
| NOTE BOOK     |      |
| AREAS CHECKED |      |



|                            |                 |           |
|----------------------------|-----------------|-----------|
| USER NAME = MWEA           | DESIGNED - KMC  | REVISED - |
| PLOT SCALE = 20,000' / in. | DRAWN - KRS     | REVISED - |
| PLOT DATE = 3/18/2021      | CHECKED - RDC   | REVISED - |
|                            | DATE - 03/17/21 | REVISED - |

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

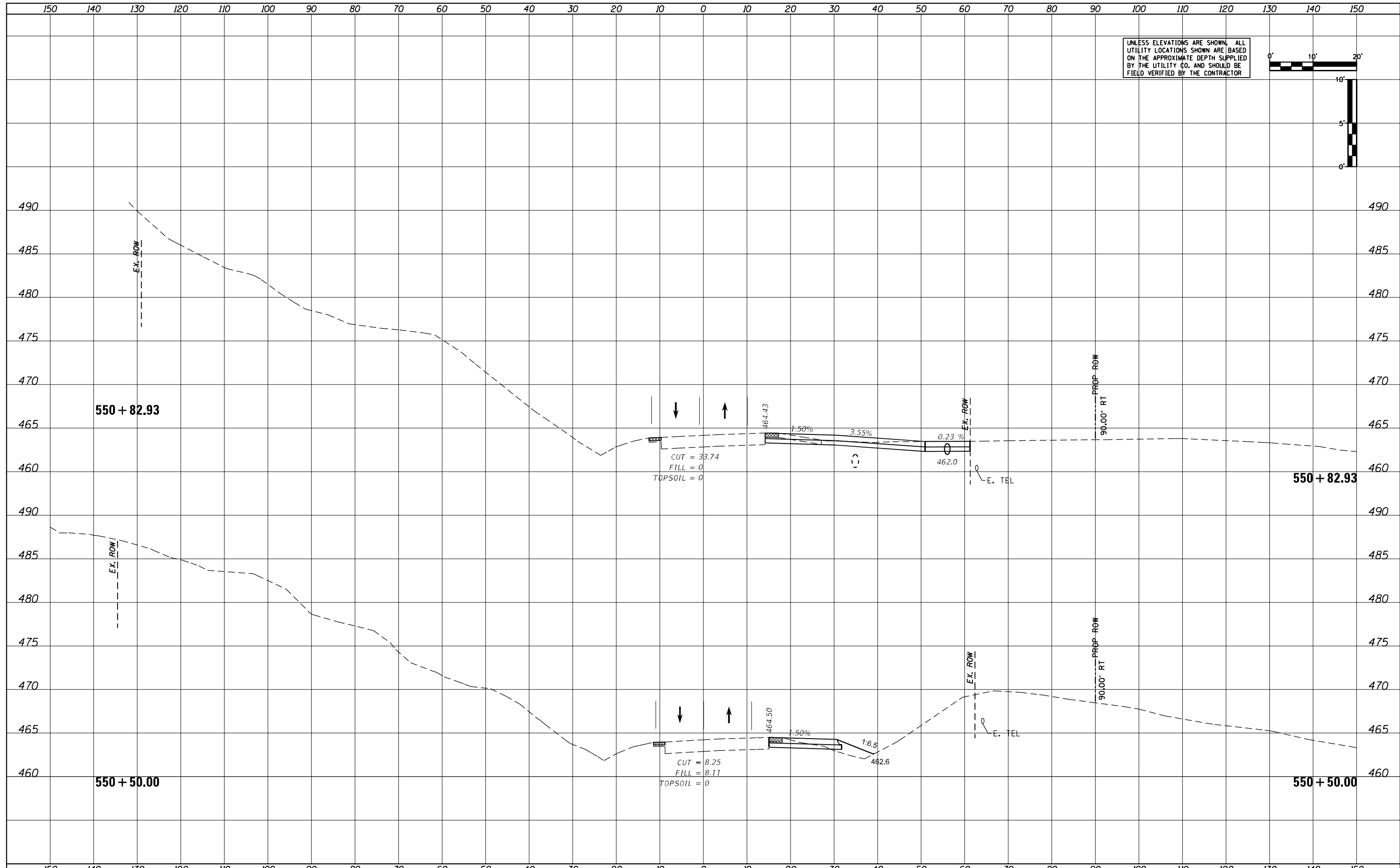
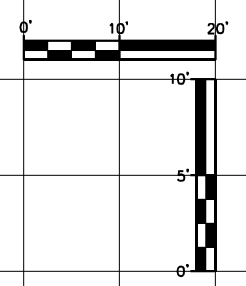
|                                 |       |           |                                  |
|---------------------------------|-------|-----------|----------------------------------|
| <b>US24 - IL9</b>               |       |           |                                  |
| <b>PRE-STAGE CROSS SECTIONS</b> |       |           |                                  |
| SCALE: AS SHOWN                 | SHEET | OF SHEETS | STA. 549+50.00 TO STA. 550+00.00 |

|                    |            |                  |              |           |
|--------------------|------------|------------------|--------------|-----------|
| F.A.P. RTE.        | SECTION    | COUNTY           | TOTAL SHEETS | SHEET NO. |
| 317A               | (43-BR) BR | FULTON           | 263          | 154       |
| CONTRACT NO. 68D34 |            |                  |              |           |
| ILLINOIS           |            | FED. AID PROJECT |              |           |

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| DATE          |  |
| BY            |  |
| SURVEY        |  |
| PLOTTED       |  |
| TEMPLATE      |  |
| NOTE BOOK     |  |
| AREAS CHECKED |  |
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| DATE          |  |
| BY            |  |
| SURVEY        |  |
| PLOTTED       |  |
| TEMPLATE      |  |
| NOTE BOOK     |  |
| AREAS CHECKED |  |
| NO.           |  |

UNLESS ELEVATIONS ARE SHOWN, ALL UTILITY LOCATIONS SHOWN ARE BASED ON THE APPROXIMATE DEPTH SUPPLIED BY THE UTILITY CO. AND SHOULD BE FIELD VERIFIED BY THE CONTRACTOR



|                             |                 |           |
|-----------------------------|-----------------|-----------|
| USER NAME = MWEA            | DESIGNED - KMC  | REVISED - |
|                             | DRAWN - KRS     | REVISED - |
| PLOT SCALE = 20.0000' / ft. | CHECKED - RDC   | REVISED - |
| PLOT DATE = 3/18/2021       | DATE - 03/17/21 | REVISED - |

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**US24 - IL9  
PRE-STAGE CROSS SECTIONS**

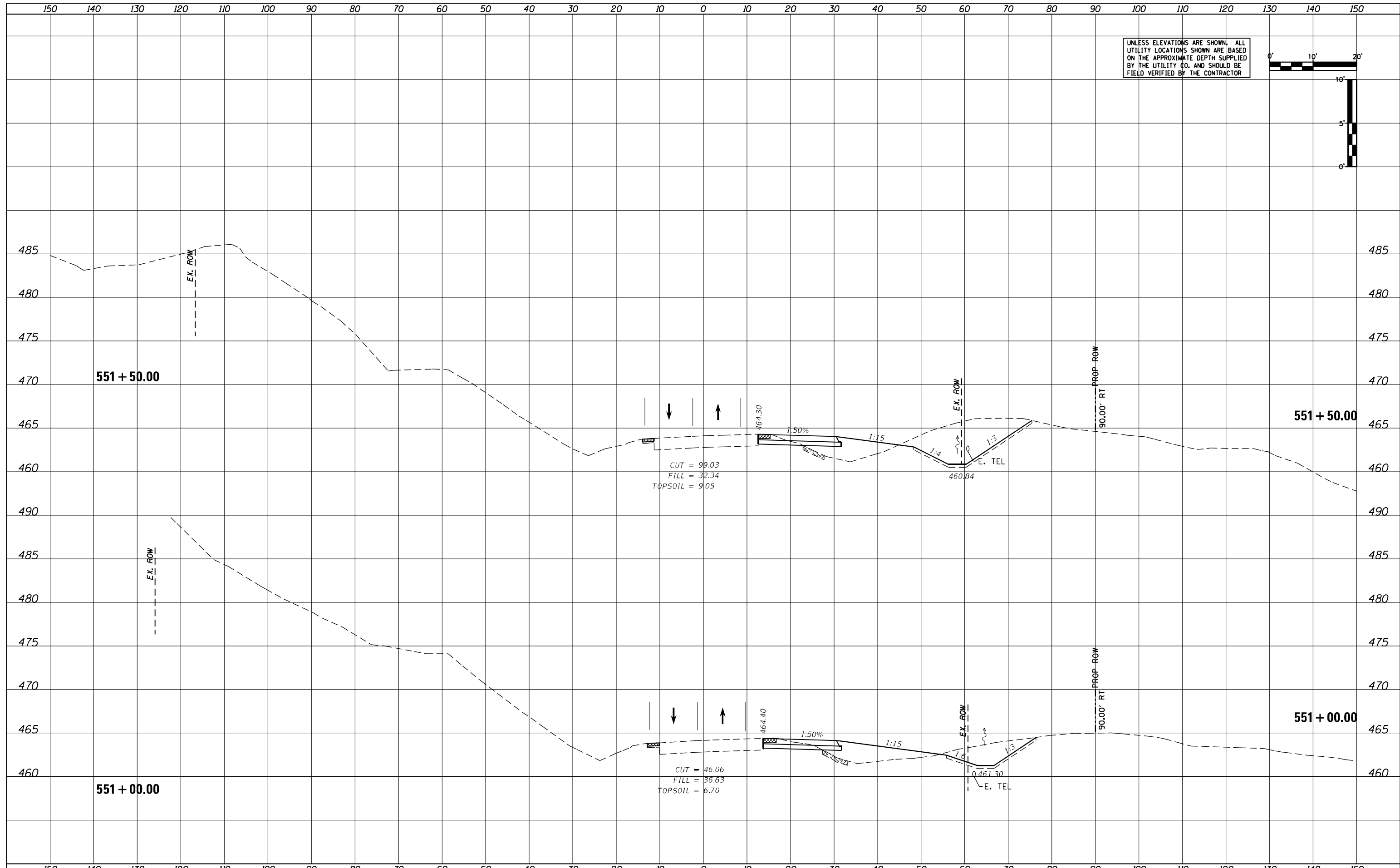
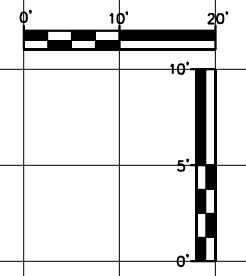
SCALE: AS SHOWN    SHEET    OF    SHEETS    STA. 550+50.00    TO STA. 550+82.93

|                    |            |                  |              |           |
|--------------------|------------|------------------|--------------|-----------|
| F.A.P. RTE.        | SECTION    | COUNTY           | TOTAL SHEETS | SHEET NO. |
| 317A               | (43-BR) BR | FULTON           | 263          | 156       |
| CONTRACT NO. 68D34 |            |                  |              |           |
| ILLINOIS           |            | FED. AID PROJECT |              |           |

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| DATE          |  |
| BY            |  |
| REVISED       |  |
| PLOTTED       |  |
| TEMPLATE      |  |
| NOTE BOOK     |  |
| AREAS CHECKED |  |
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| DATE          |  |
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| REVISED       |  |
| PLOTTED       |  |
| TEMPLATE      |  |
| NOTE BOOK     |  |
| AREAS CHECKED |  |
| NO.           |  |

UNLESS ELEVATIONS ARE SHOWN, ALL UTILITY LOCATIONS SHOWN ARE BASED ON THE APPROXIMATE DEPTH SUPPLIED BY THE UTILITY CO. AND SHOULD BE FIELD VERIFIED BY THE CONTRACTOR



|                             |                 |           |
|-----------------------------|-----------------|-----------|
| USER NAME = MWEA            | DESIGNED - KMC  | REVISED - |
|                             | DRAWN - KRS     | REVISED - |
| PLOT SCALE = 20.0000' / ft. | CHECKED - RDC   | REVISED - |
| PLOT DATE = 3/18/2021       | DATE - 03/17/21 | REVISED - |

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

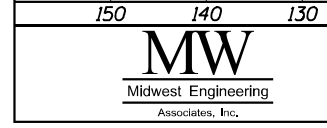
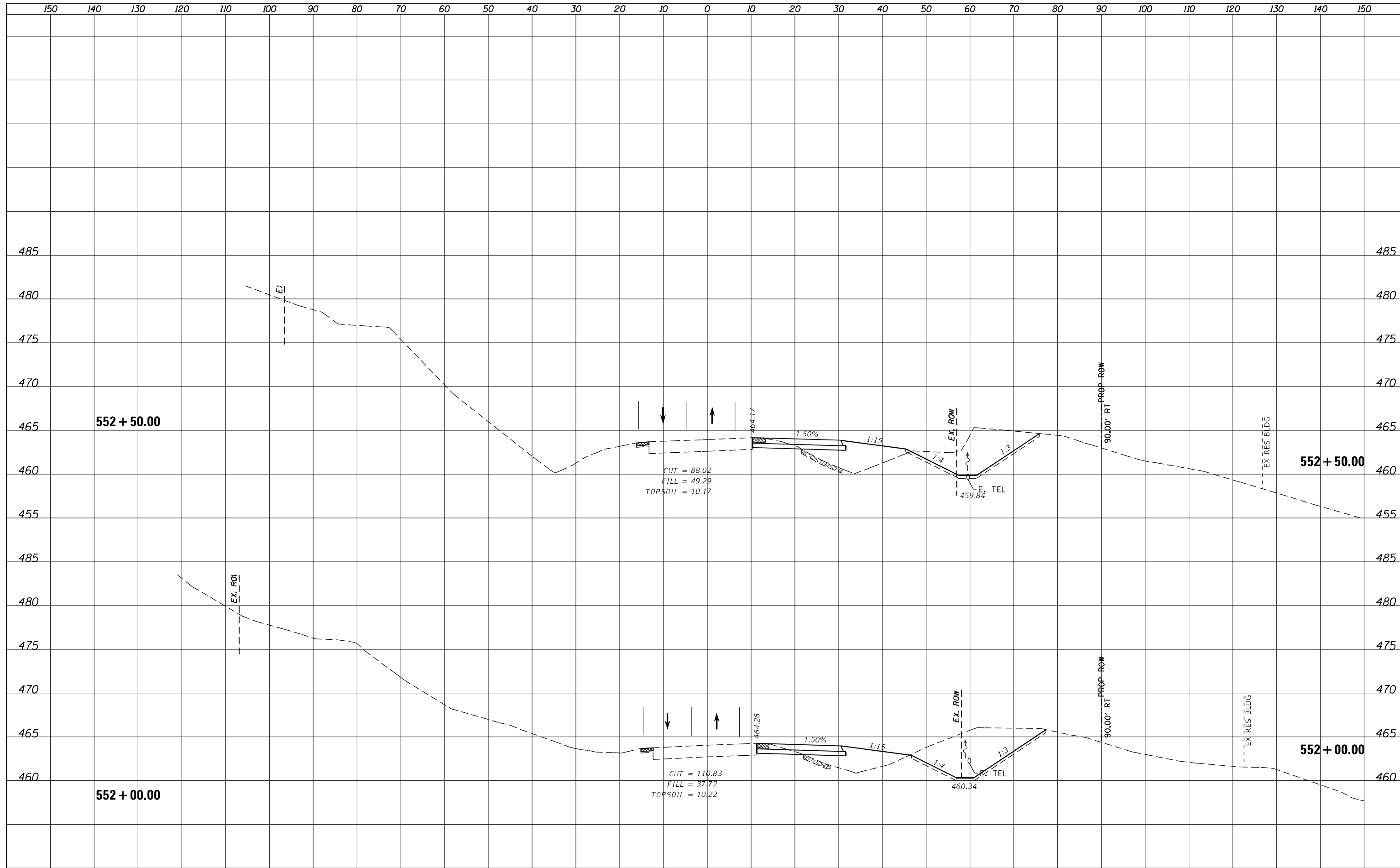
**US24 - IL9  
PRE-STAGE CROSS SECTIONS**

SCALE: AS SHOWN    SHEET    OF    SHEETS    STA. 551+00.00    TO STA. 551+50.00

|                           |            |        |              |           |
|---------------------------|------------|--------|--------------|-----------|
| F.A.P. RTE.               | SECTION    | COUNTY | TOTAL SHEETS | SHEET NO. |
| 317A                      | (43-BR) BR | FULTON | 263          | 156       |
| CONTRACT NO. 68D34        |            |        |              |           |
| ILLINOIS FED. AID PROJECT |            |        |              |           |

|           |  |
|-----------|--|
| DATE      |  |
| BY        |  |
| REVISIONS |  |
| SURVEY    |  |
| PLOTTED   |  |
| TEMPLATE  |  |
| NOTE BOOK |  |
| AREAS     |  |
| CHECKED   |  |
| NO.       |  |

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| DATE      |  |
| BY        |  |
| REVISIONS |  |
| SURVEY    |  |
| PLOTTED   |  |
| TEMPLATE  |  |
| NOTE BOOK |  |
| AREAS     |  |
| CHECKED   |  |
| NO.       |  |



|                             |                 |           |
|-----------------------------|-----------------|-----------|
| USER NAME = MWEA            | DESIGNED - KMC  | REVISED - |
|                             | DRAWN - KRS     | REVISED - |
| PLOT SCALE = 20.0000' / ft. | CHECKED - RDC   | REVISED - |
| PLOT DATE = 3/18/2021       | DATE - 03/17/21 | REVISED - |

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

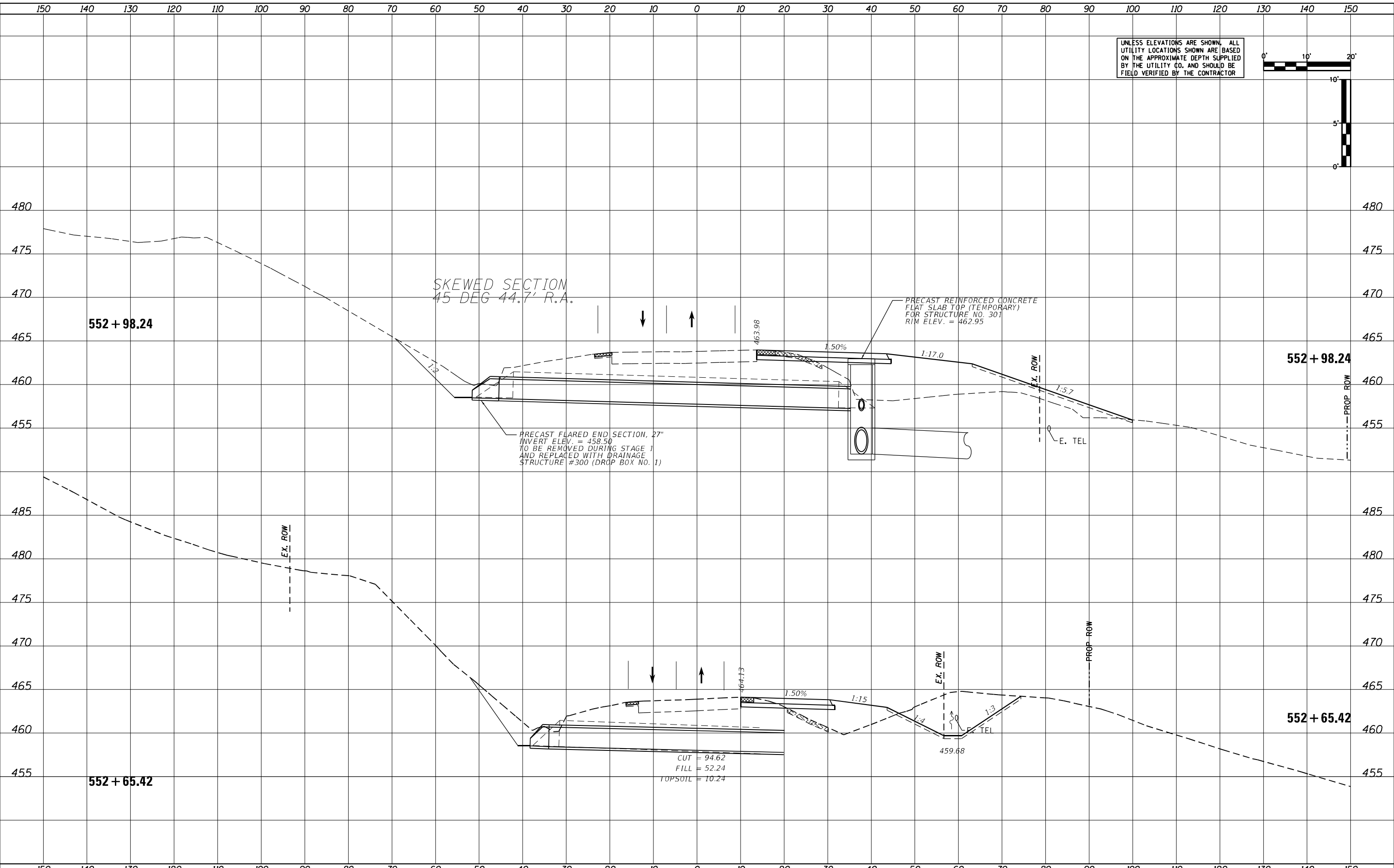
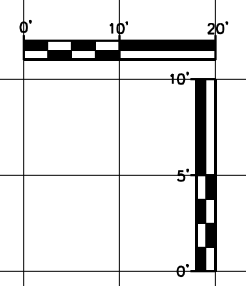
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|--|-------------------|
| <b>US24 - IL9<br/>PRE-STAGE CROSS SECTIONS</b> |                   |
| SCALE: AS SHOWN                                | SHEET OF SHEETS   |
| STA. 552+00.00                                 | TO STA. 552+50.00 |

|                    |            |                  |              |           |
|--------------------|------------|------------------|--------------|-----------|
| F.A.P. RTE.        | SECTION    | COUNTY           | TOTAL SHEETS | SHEET NO. |
| 317A               | (43-BR) BR | FULTON           | 263          | 157       |
| CONTRACT NO. 68D34 |            |                  |              |           |
| ILLINOIS           |            | FED. AID PROJECT |              |           |

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| DATE            |  |
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| TEMPLATE        |  |
| AREAS           |  |
| AREAS CHECKED   |  |
| NO.             |  |
| ORIGINAL SURVEY |  |
| NOTE BOOK       |  |
| NO.             |  |

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| TEMPLATE        |  |
| AREAS           |  |
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| ORIGINAL SURVEY |  |
| NOTE BOOK       |  |
| NO.             |  |

UNLESS ELEVATIONS ARE SHOWN, ALL UTILITY LOCATIONS SHOWN ARE BASED ON THE APPROXIMATE DEPTH SUPPLIED BY THE UTILITY CO. AND SHOULD BE FIELD VERIFIED BY THE CONTRACTOR



|                             |                 |           |
|-----------------------------|-----------------|-----------|
| USER NAME = MWEA            | DESIGNED - KMC  | REVISED - |
|                             | DRAWN - KRS     | REVISED - |
| PLOT SCALE = 20.0000' / ft. | CHECKED - RDC   | REVISED - |
| PLOT DATE = 3/18/2021       | DATE - 03/17/21 | REVISED - |

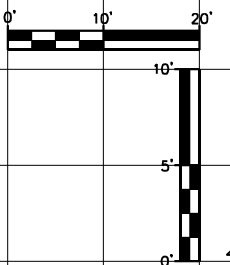
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

|                          |                 |                |                   |        |                    |           |
|--------------------------|-----------------|----------------|-------------------|--------|--------------------|-----------|
| US24 - IL9               |                 | F.A.P. R.T.E.  | SECTION           | COUNTY | TOTAL SHEETS       | SHEET NO. |
| PRE-STAGE CROSS SECTIONS |                 | 317A           | (43-BR) BR        | FULTON | 263                | 158       |
| SCALE: AS SHOWN          | SHEET OF SHEETS | STA. 552+65.42 | TO STA. 552+98.24 |        | CONTRACT NO. 68D34 |           |

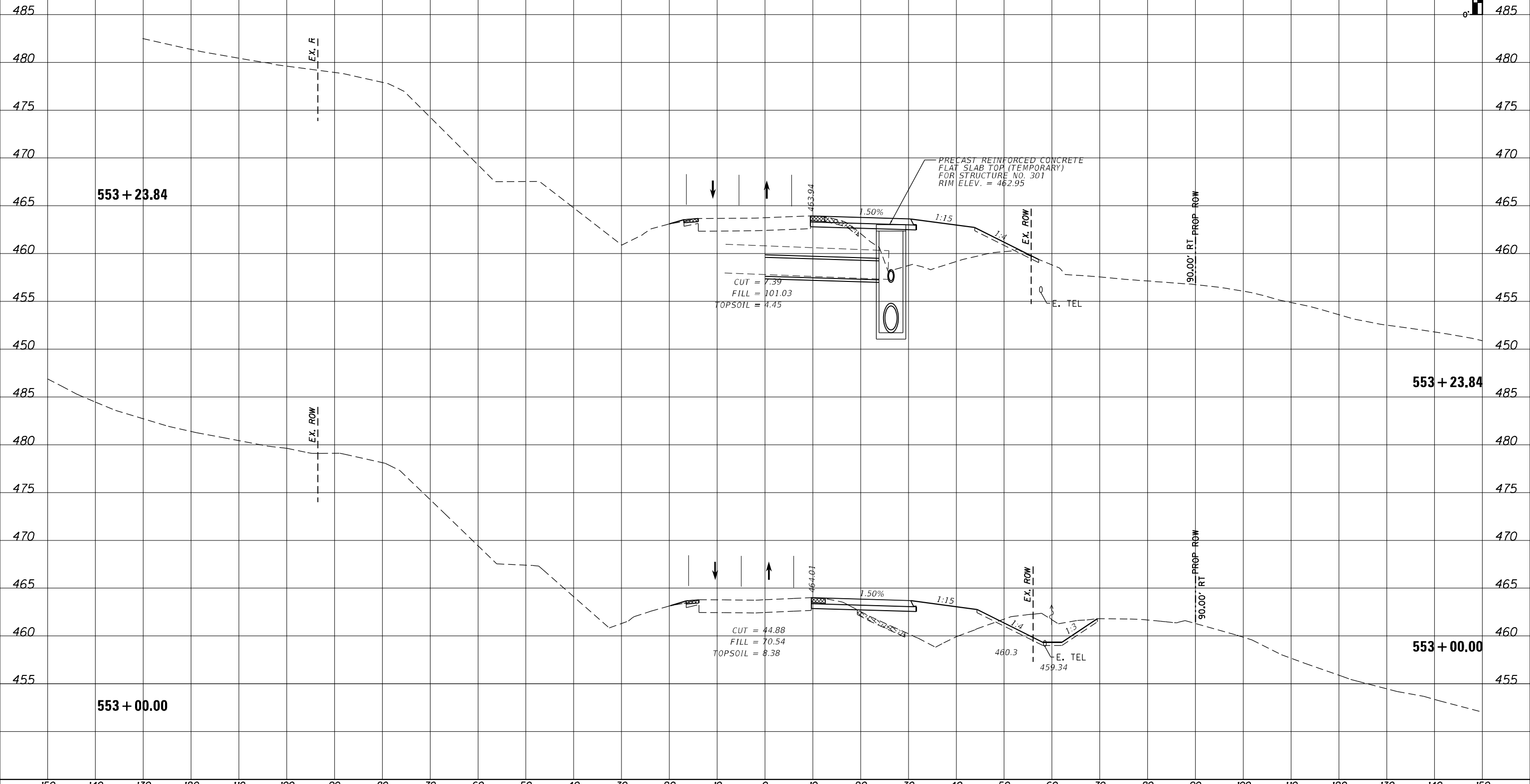


150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

UNLESS ELEVATIONS ARE SHOWN, ALL UTILITY LOCATIONS SHOWN ARE BASED ON THE APPROXIMATE DEPTH SUPPLIED BY THE UTILITY CO. AND SHOULD BE FIELD VERIFIED BY THE CONTRACTOR



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| DATE      |  |
| BY        |  |
| SURVEY    |  |
| NOTED     |  |
| NOTE BOOK |  |
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| SURVEY    |  |
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| NOTE BOOK |  |
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150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150



|                            |                 |           |
|----------------------------|-----------------|-----------|
| USER NAME = MWEA           | DESIGNED - KMC  | REVISED - |
|                            | DRAWN - KRS     | REVISED - |
| PLOT SCALE = 20,000' / ft. | CHECKED - RDC   | REVISED - |
| PLOT DATE = 3/18/2021      | DATE - 03/17/21 | REVISED - |

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

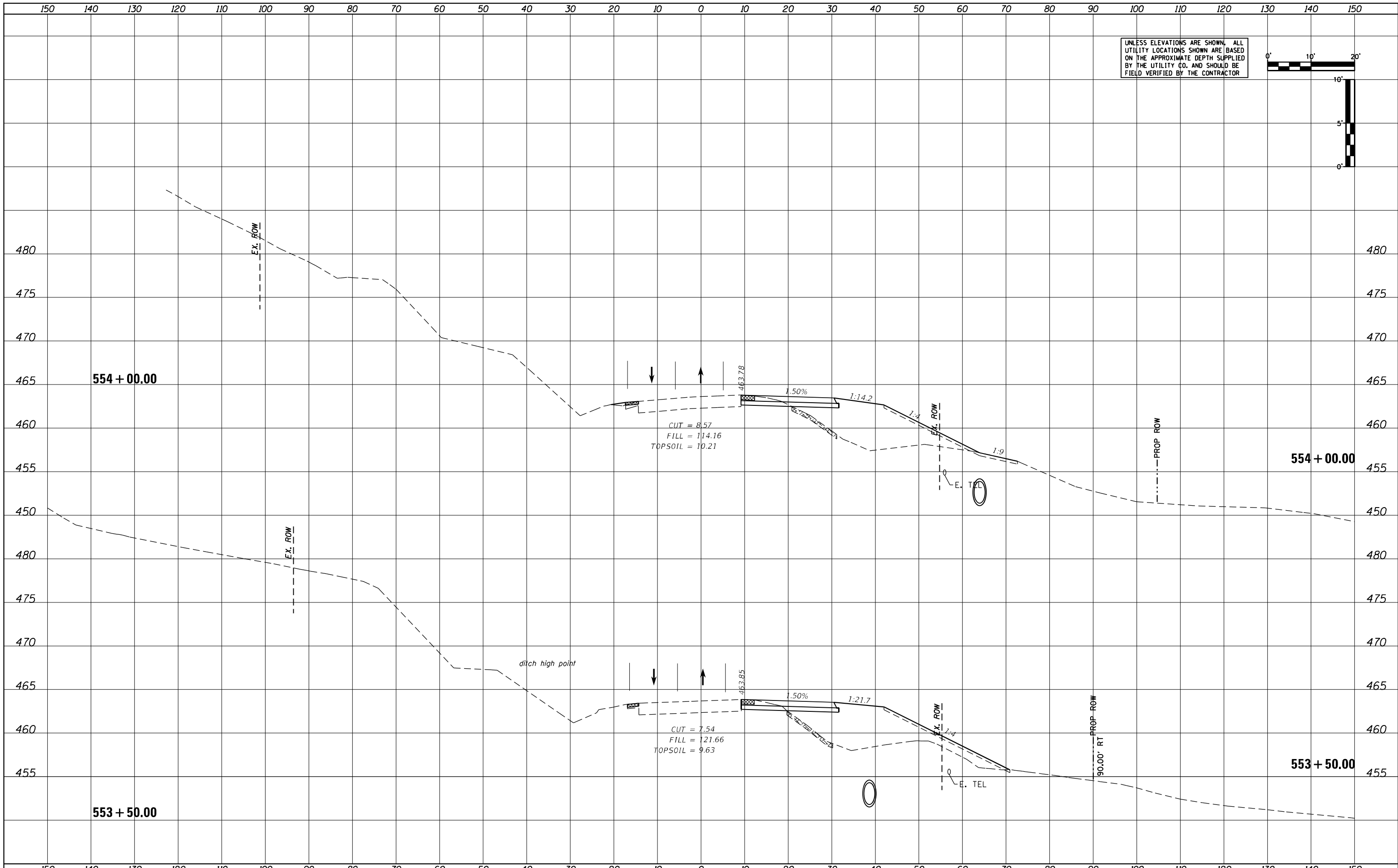
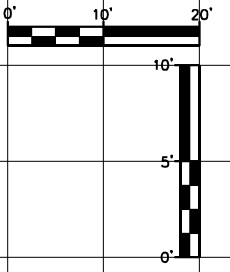
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|--|-------------------|
| US24 - IL9<br>PRE-STAGE CROSS SECTIONS |                   |
| SCALE: AS SHOWN                        | SHEET OF SHEETS   |
| STA. 553+00.00                         | TO STA. 553+23.84 |

|                           |            |        |              |           |
|---------------------------|------------|--------|--------------|-----------|
| F.A.P. R.T.E.             | SECTION    | COUNTY | TOTAL SHEETS | SHEET NO. |
| 317A                      | (43-BR) BR | FULTON | 263          | 159       |
| CONTRACT NO. 68D34        |            |        |              |           |
| ILLINOIS FED. AID PROJECT |            |        |              |           |

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| DATE          |  |
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UNLESS ELEVATIONS ARE SHOWN, ALL UTILITY LOCATIONS SHOWN ARE BASED ON THE APPROXIMATE DEPTH SUPPLIED BY THE UTILITY CO. AND SHOULD BE FIELD VERIFIED BY THE CONTRACTOR



|                             |                 |           |
|-----------------------------|-----------------|-----------|
| USER NAME = MWEA            | DESIGNED - KMC  | REVISED - |
|                             | DRAWN - KRS     | REVISED - |
| PLOT SCALE = 20.0000' / ft. | CHECKED - RDC   | REVISED - |
| PLOT DATE = 3/18/2021       | DATE - 03/17/21 | REVISED - |

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

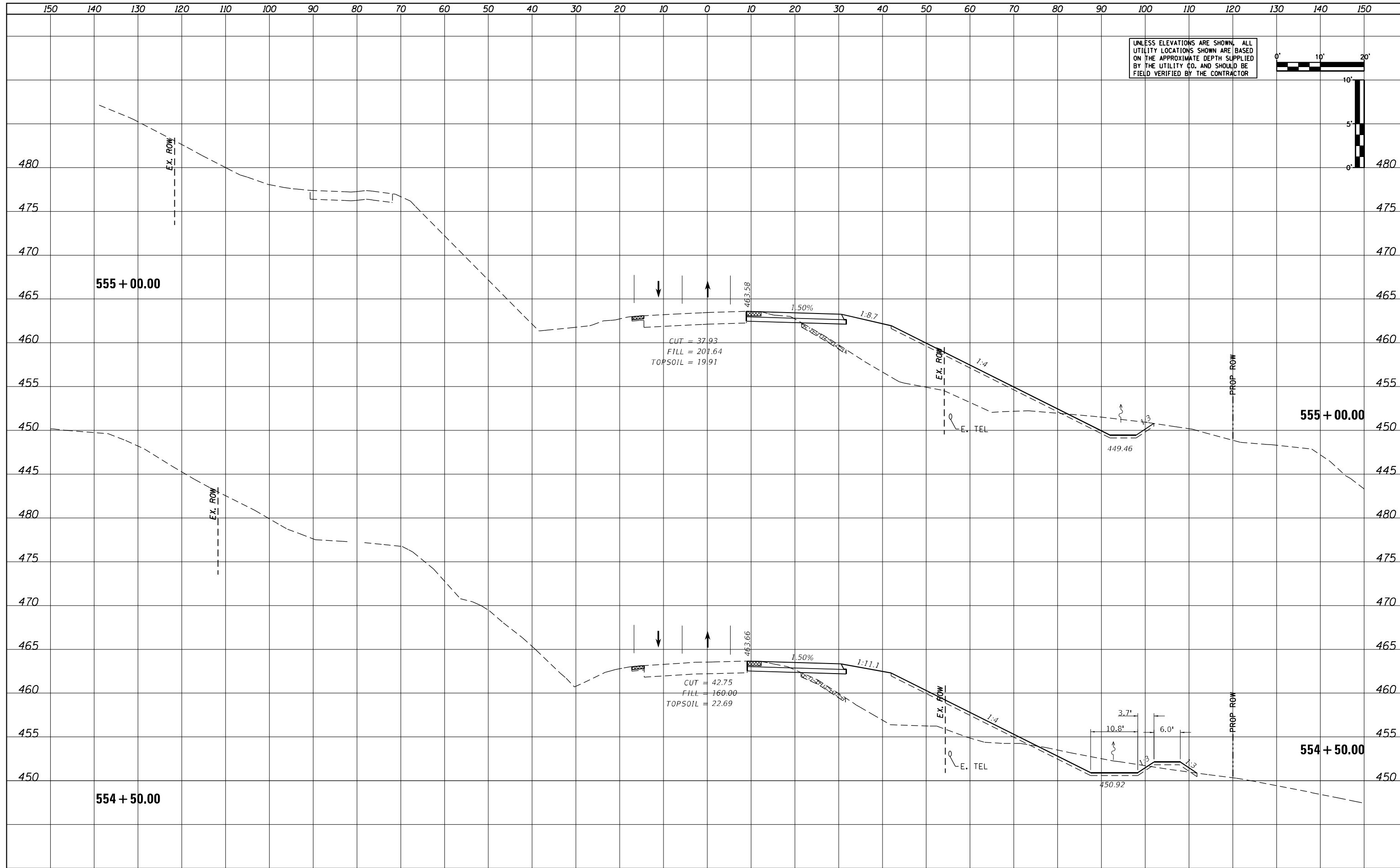
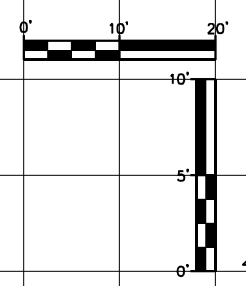
|  |       |           |                                  |
|--|-------|-----------|----------------------------------|
| <b>US24 - IL9<br/>PRE-STAGE CROSS SECTIONS</b> |       |           |                                  |
| SCALE: AS SHOWN                                | SHEET | OF SHEETS | STA. 553+50.00 TO STA. 554+00.00 |

|                           |            |        |              |           |
|---------------------------|------------|--------|--------------|-----------|
| F.A.P. RTE.               | SECTION    | COUNTY | TOTAL SHEETS | SHEET NO. |
| 317A                      | (43-BR) BR | FULTON | 263          | 160       |
| CONTRACT NO. 68D34        |            |        |              |           |
| ILLINOIS FED. AID PROJECT |            |        |              |           |

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| DATE          |  |
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| NOTE BOOK     |  |
| AREAS CHECKED |  |
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UNLESS ELEVATIONS ARE SHOWN, ALL UTILITY LOCATIONS SHOWN ARE BASED ON THE APPROXIMATE DEPTH SUPPLIED BY THE UTILITY CO. AND SHOULD BE FIELD VERIFIED BY THE CONTRACTOR



|                             |                 |           |
|-----------------------------|-----------------|-----------|
| USER NAME = MWEA            | DESIGNED - KMC  | REVISED - |
| PLOT SCALE = 20.0000' / ft. | DRAWN - KRS     | REVISED - |
| PLOT DATE = 3/18/2021       | CHECKED - RDC   | REVISED - |
|                             | DATE - 03/17/21 | REVISED - |

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

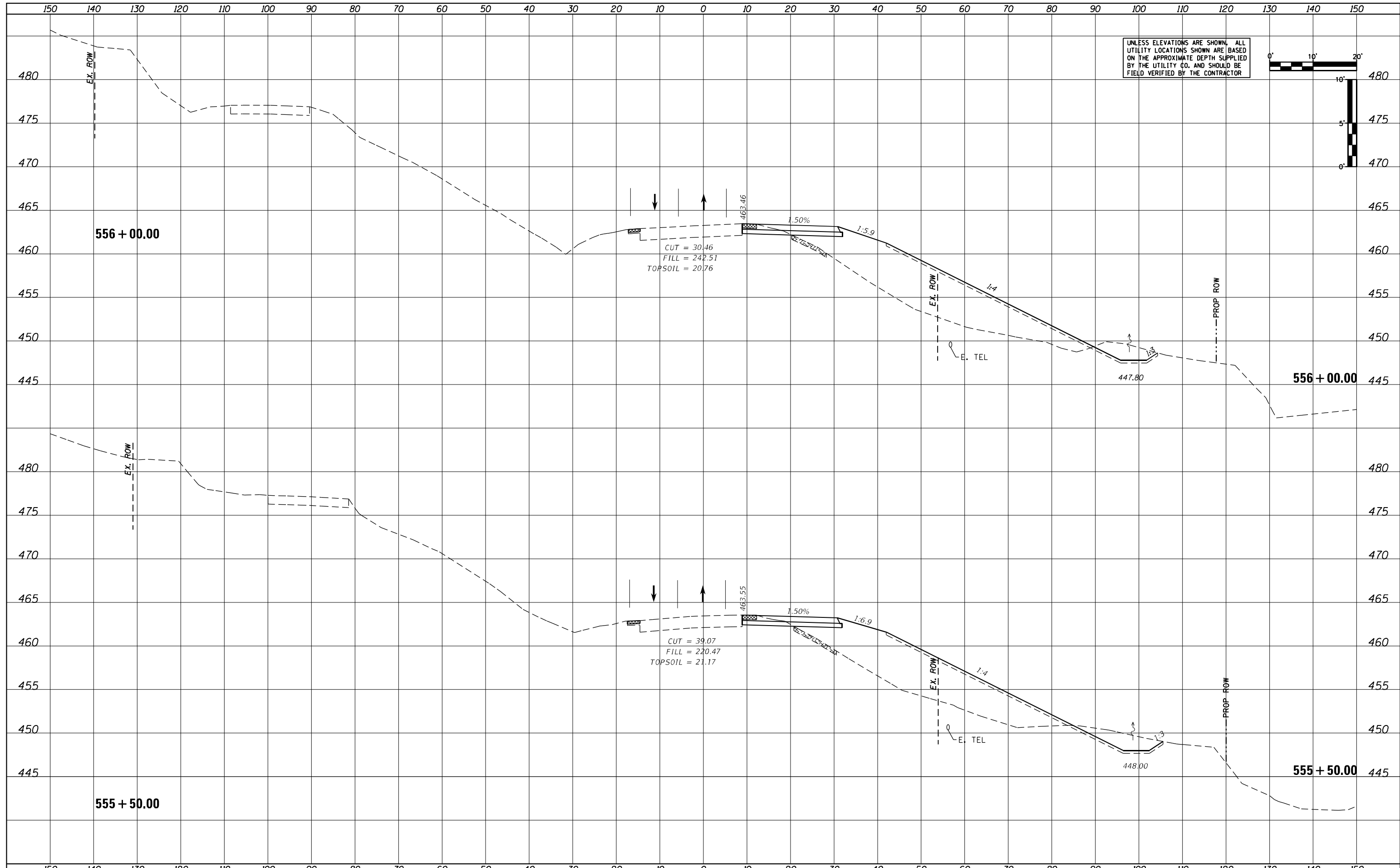
**US24 - IL9  
PRE-STAGE CROSS SECTIONS**

SCALE: AS SHOWN    SHEET    OF    SHEETS    STA. 554+50.00    TO STA. 555+00.00

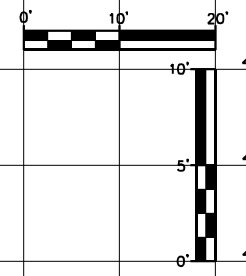
|                           |            |        |              |           |
|---------------------------|------------|--------|--------------|-----------|
| F.A.P. RTE.               | SECTION    | COUNTY | TOTAL SHEETS | SHEET NO. |
| 317A                      | (43-BR) BR | FULTON | 263          | 161       |
| CONTRACT NO. 68D34        |            |        |              |           |
| ILLINOIS FED. AID PROJECT |            |        |              |           |

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| DATE          |  |
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| PLOTTED       |  |
| TEMPLATE      |  |
| NOTE BOOK     |  |
| AREAS CHECKED |  |
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UNLESS ELEVATIONS ARE SHOWN, ALL UTILITY LOCATIONS SHOWN ARE BASED ON THE APPROXIMATE DEPTH SUPPLIED BY THE UTILITY CO. AND SHOULD BE FIELD VERIFIED BY THE CONTRACTOR



|                             |                 |           |
|-----------------------------|-----------------|-----------|
| USER NAME = MWEA            | DESIGNED - KMC  | REVISED - |
|                             | DRAWN - KRS     | REVISED - |
| PLOT SCALE = 20.0000' / ft. | CHECKED - RDC   | REVISED - |
| PLOT DATE = 3/18/2021       | DATE - 03/17/21 | REVISED - |

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**US24 - IL9  
PRE-STAGE CROSS SECTIONS**

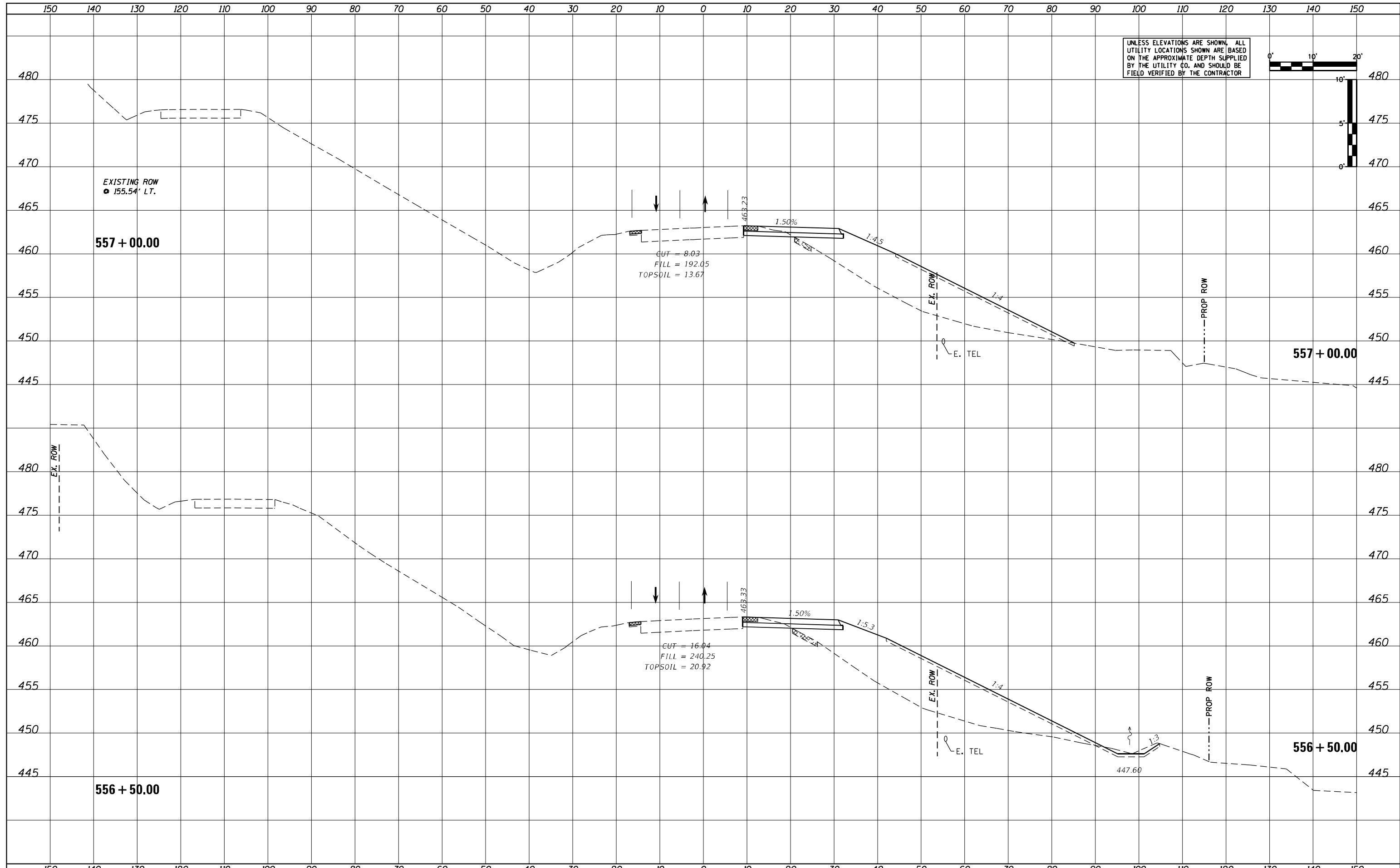
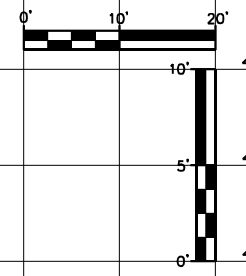
SCALE: AS SHOWN    SHEET    OF    SHEETS    STA. 555+50.00    TO STA. 556+00.00

|                           |            |        |              |           |
|---------------------------|------------|--------|--------------|-----------|
| F.A.P. RTE.               | SECTION    | COUNTY | TOTAL SHEETS | SHEET NO. |
| 317A                      | (43-BR) BR | FULTON | 263          | 162       |
| CONTRACT NO. 68D34        |            |        |              |           |
| ILLINOIS FED. AID PROJECT |            |        |              |           |

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| DATE          |  |
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| SURVEY        |  |
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| AREAS CHECKED |  |
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| DATE          |  |
| BY            |  |
| SURVEY        |  |
| PLOTTED       |  |
| TEMPLATE      |  |
| NOTE BOOK     |  |
| AREAS CHECKED |  |
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UNLESS ELEVATIONS ARE SHOWN, ALL UTILITY LOCATIONS SHOWN ARE BASED ON THE APPROXIMATE DEPTH SUPPLIED BY THE UTILITY CO. AND SHOULD BE FIELD VERIFIED BY THE CONTRACTOR



|                             |                 |           |
|-----------------------------|-----------------|-----------|
| USER NAME = MWEA            | DESIGNED - KMC  | REVISED - |
| PLOT SCALE = 20,0000' / ft. | DRAWN - KRS     | REVISED - |
| PLOT DATE = 3/18/2021       | CHECKED - RDC   | REVISED - |
|                             | DATE - 03/17/21 | REVISED - |

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**US24 - IL9  
PRE-STAGE CROSS SECTIONS**

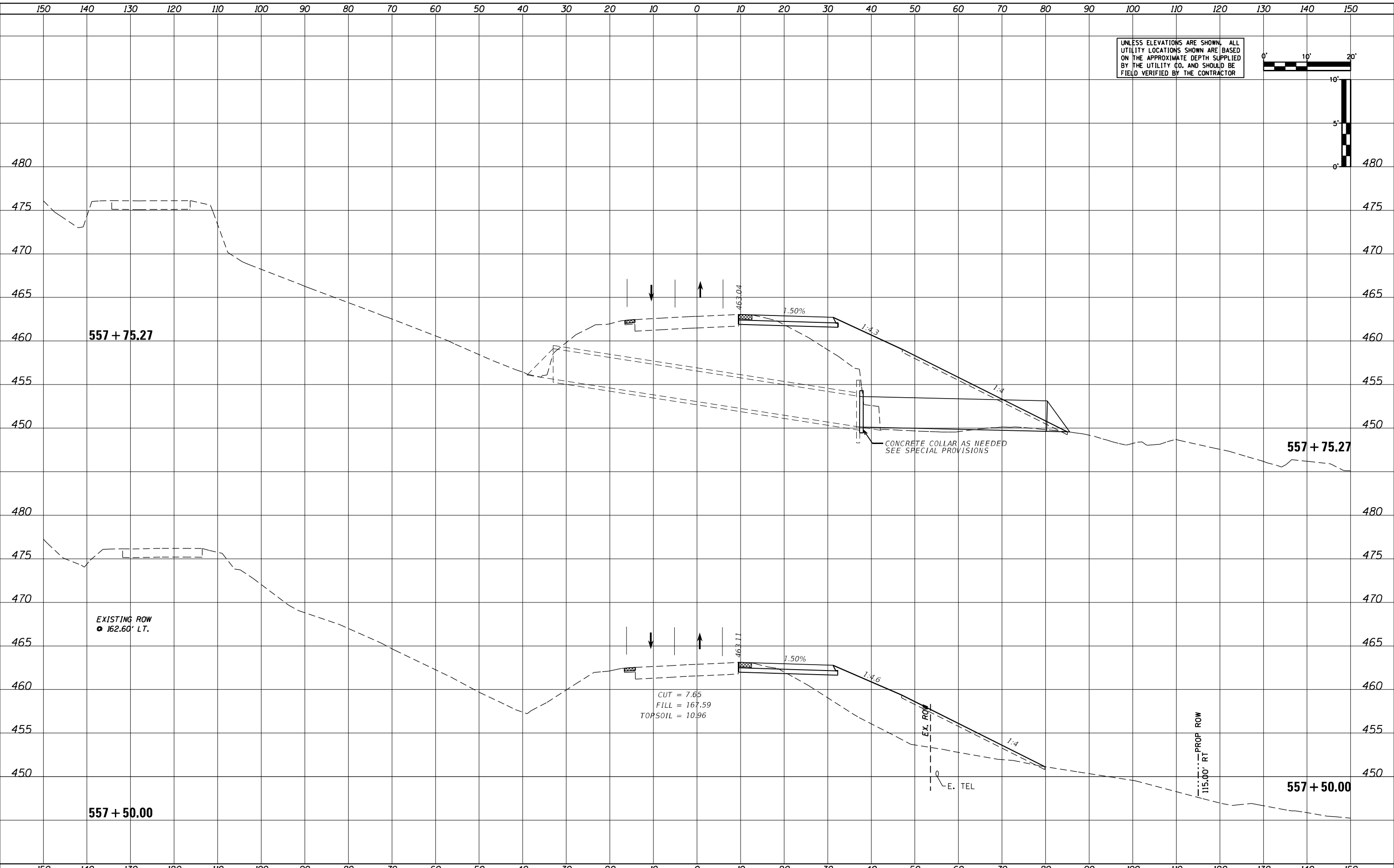
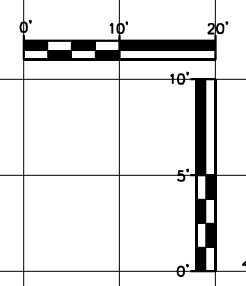
SCALE: AS SHOWN    SHEET    OF    SHEETS    STA. 556+50.00    TO STA. 557+00.00

|                           |            |        |              |           |
|---------------------------|------------|--------|--------------|-----------|
| F.A.P. RTE.               | SECTION    | COUNTY | TOTAL SHEETS | SHEET NO. |
| 317A                      | (43-BR) BR | FULTON | 263          | 163       |
| CONTRACT NO. 68D34        |            |        |              |           |
| ILLINOIS FED. AID PROJECT |            |        |              |           |

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| DATE          |  |
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| SUPPOSED      |  |
| PLOTTED       |  |
| TEMPLATE      |  |
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| SUPPOSED      |  |
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| AREAS         |  |
| AREAS CHECKED |  |
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UNLESS ELEVATIONS ARE SHOWN, ALL UTILITY LOCATIONS SHOWN ARE BASED ON THE APPROXIMATE DEPTH SUPPLIED BY THE UTILITY CO. AND SHOULD BE FIELD VERIFIED BY THE CONTRACTOR



|                             |                 |           |
|-----------------------------|-----------------|-----------|
| USER NAME = MWEA            | DESIGNED - KMC  | REVISED - |
|                             | DRAWN - KRS     | REVISED - |
| PLOT SCALE = 20.0000' / ft. | CHECKED - RDC   | REVISED - |
| PLOT DATE = 3/18/2021       | DATE - 03/17/21 | REVISED - |

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

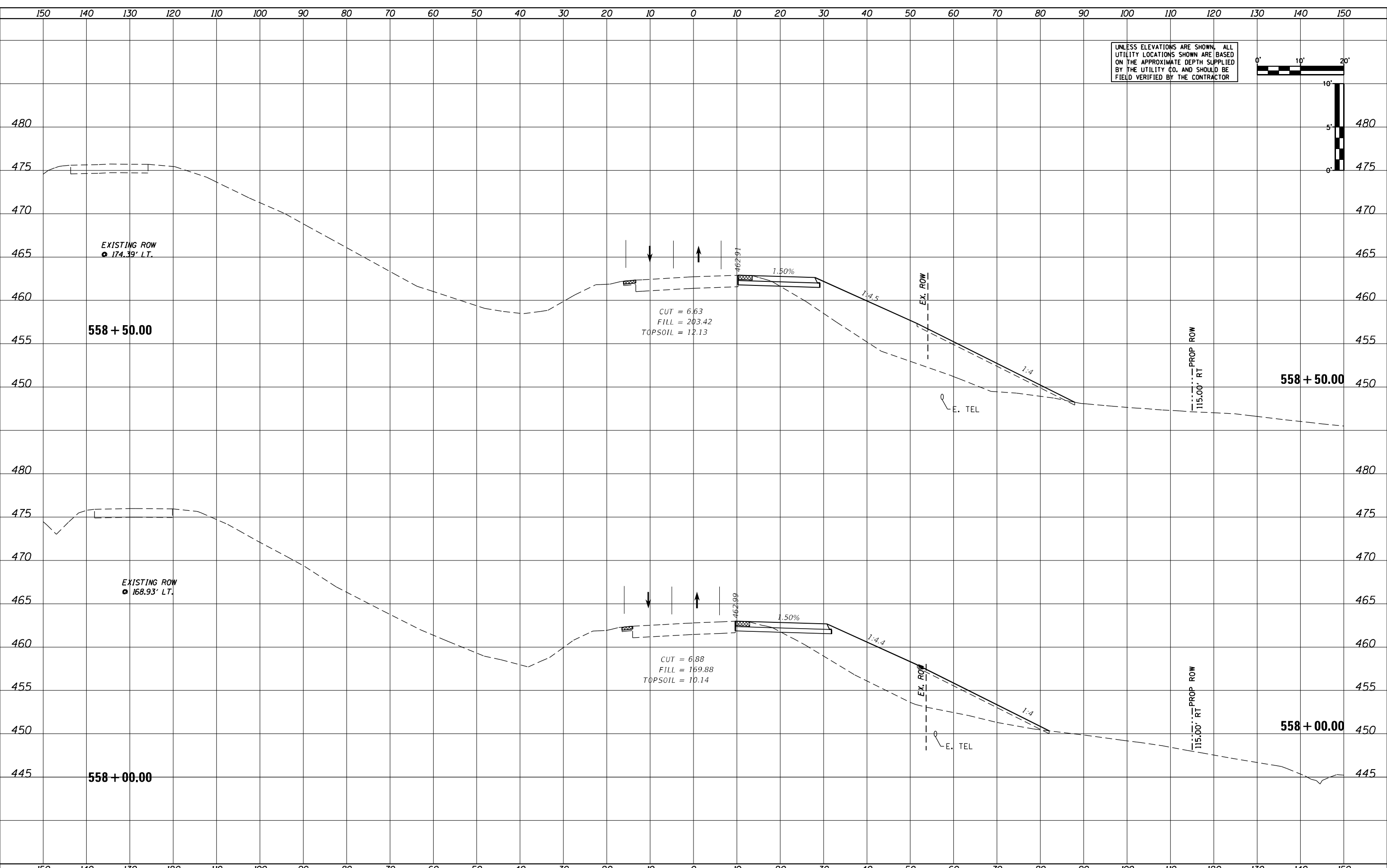
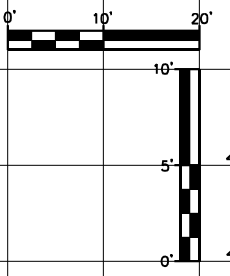
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|--------------------------|-------|-----------|----------------------------------|
| US24 - IL9               |       |           |                                  |
| PRE-STAGE CROSS SECTIONS |       |           |                                  |
| SCALE: AS SHOWN          | SHEET | OF SHEETS | STA. 557+50.00 TO STA. 557+75.27 |

|                           |            |        |              |           |
|---------------------------|------------|--------|--------------|-----------|
| F.A.P. RTE.               | SECTION    | COUNTY | TOTAL SHEETS | SHEET NO. |
| 317A                      | (43-BR) BR | FULTON | 263          | 164       |
| CONTRACT NO. 68D34        |            |        |              |           |
| ILLINOIS FED. AID PROJECT |            |        |              |           |

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| DATE   |  |
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| SURVEY |  |
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| TEMP.  |  |
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| AREAS  |  |
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| BY     |  |
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| NOTED  |  |
| TEMP.  |  |
| PLACED |  |
| AREAS  |  |
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UNLESS ELEVATIONS ARE SHOWN, ALL UTILITY LOCATIONS SHOWN ARE BASED ON THE APPROXIMATE DEPTH SUPPLIED BY THE UTILITY CO. AND SHOULD BE FIELD VERIFIED BY THE CONTRACTOR



**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**US24 - IL9  
PRE-STAGE CROSS SECTIONS**

|                            |                 |           |
|----------------------------|-----------------|-----------|
| USER NAME = MWEA           | DESIGNED - KMC  | REVISED - |
| PLOT SCALE = 20,000' / in. | DRAWN - KRS     | REVISED - |
| PLOT DATE = 3/18/2021      | CHECKED - RDC   | REVISED - |
|                            | DATE - 03/17/21 | REVISED - |

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|--------------------|------------|--------|--------|-------|
| F & P              | SECTION    | COUNTY | TOTAL  | SHEET |
| 317A               | (43-BR) BR | FULTON | SHEETS | NO.   |
|                    |            |        | 263    | 166   |
| CONTRACT NO. 68D34 |            |        |        |       |

SCALE: AS SHOWN SHEET OF SHEETS STA. 558+00.00 TO STA. 558+50.00

ILLINOIS FED. AID PROJECT



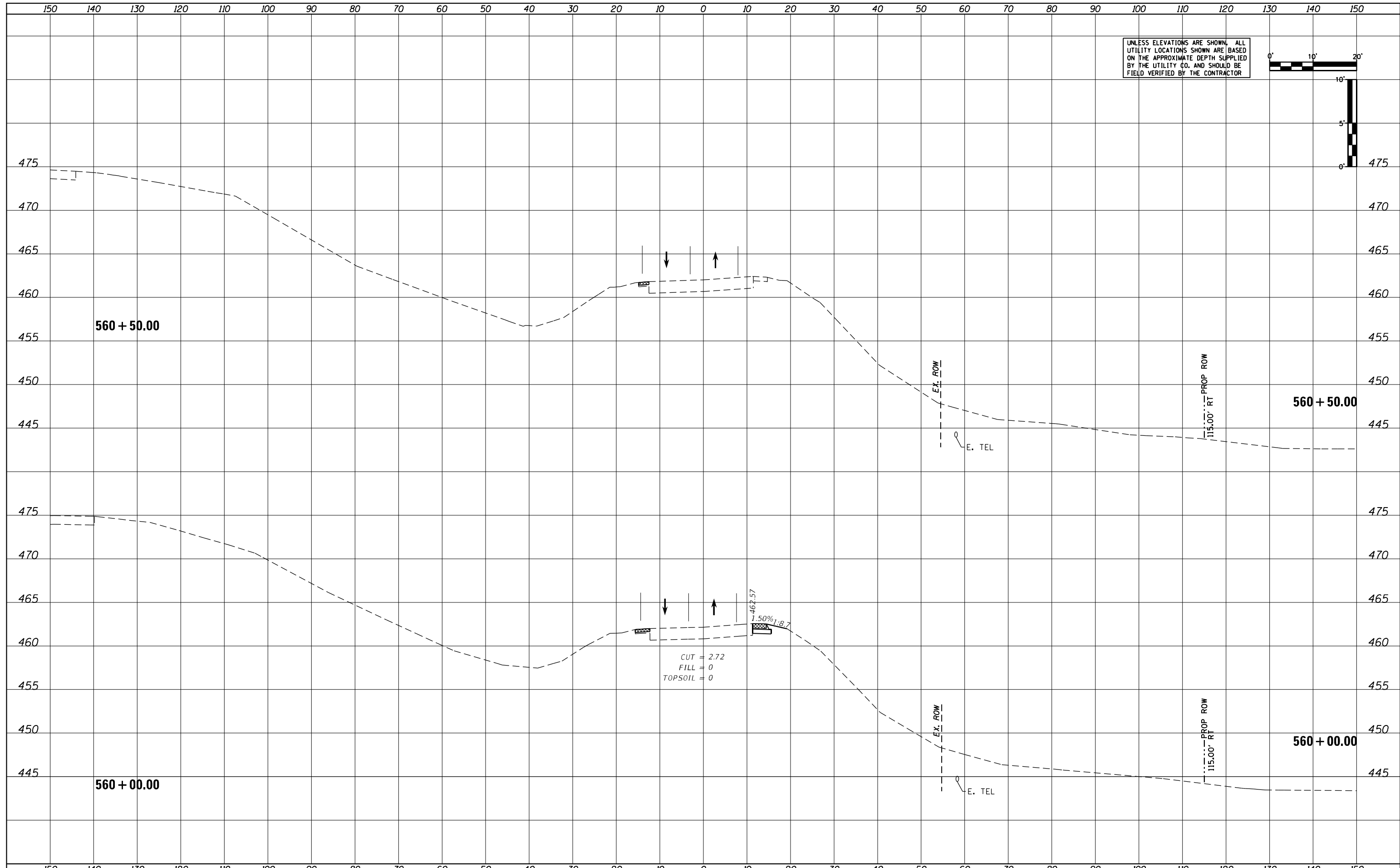
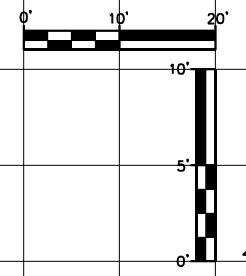




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| BY            |  |
| SURVEY        |  |
| PLOTTED       |  |
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| NOTE BOOK     |  |
| AREAS CHECKED |  |
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UNLESS ELEVATIONS ARE SHOWN, ALL UTILITY LOCATIONS SHOWN ARE BASED ON THE APPROXIMATE DEPTH SUPPLIED BY THE UTILITY CO. AND SHOULD BE FIELD VERIFIED BY THE CONTRACTOR



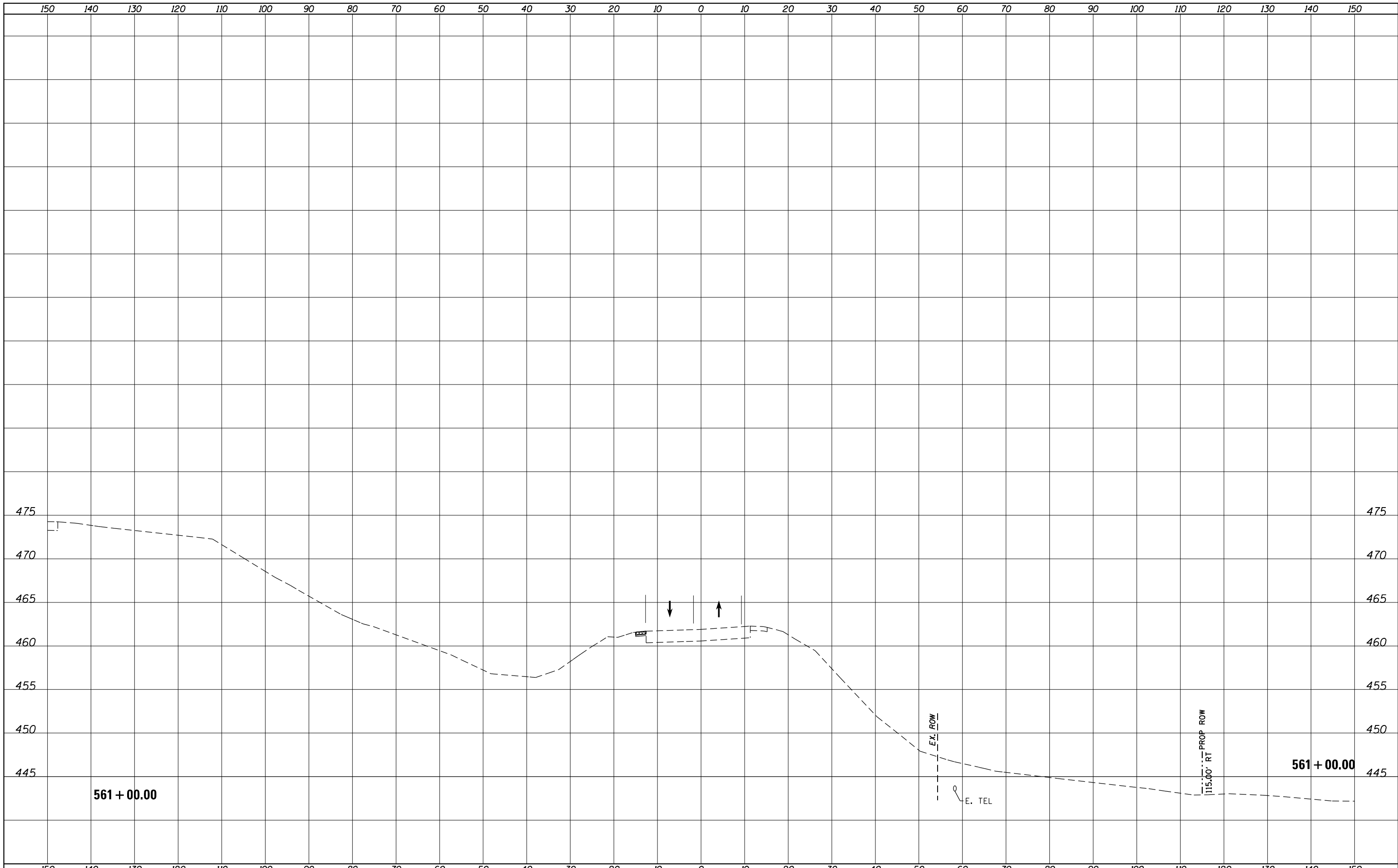
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|-----------------------------|-----------------|-----------|
| USER NAME = MWEA            | DESIGNED - KMC  | REVISED - |
|                             | DRAWN - KRS     | REVISED - |
| PLOT SCALE = 20.0000' / ft. | CHECKED - RDC   | REVISED - |
| PLOT DATE = 3/18/2021       | DATE - 03/17/21 | REVISED - |

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**US24 - IL9  
PRE-STAGE CROSS SECTIONS**

SCALE: AS SHOWN    SHEET    OF    SHEETS    STA. 560+00.00    TO STA. 560+50.00

|                           |            |        |              |           |
|---------------------------|------------|--------|--------------|-----------|
| F.A.P. RTE.               | SECTION    | COUNTY | TOTAL SHEETS | SHEET NO. |
| 317A                      | (43-BR) BR | FULTON | 263          | 167       |
| CONTRACT NO. 68D34        |            |        |              |           |
| ILLINOIS FED. AID PROJECT |            |        |              |           |



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| DATE          |  |
| BY            |  |
| APPROVED      |  |
| PLOTTED       |  |
| TEMPLATE      |  |
| AREAS CHECKED |  |
| NO.           |  |

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| DATE          |  |
| BY            |  |
| APPROVED      |  |
| PLOTTED       |  |
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| AREAS CHECKED |  |
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|-----------------------------|-----------------|-----------|
| USER NAME = MWEA            | DESIGNED - KMC  | REVISED - |
|                             | DRAWN - KRS     | REVISED - |
| PLOT SCALE = 20.0000' / ft. | CHECKED - RDC   | REVISED - |
| PLOT DATE = 3/18/2021       | DATE - 03/17/21 | REVISED - |

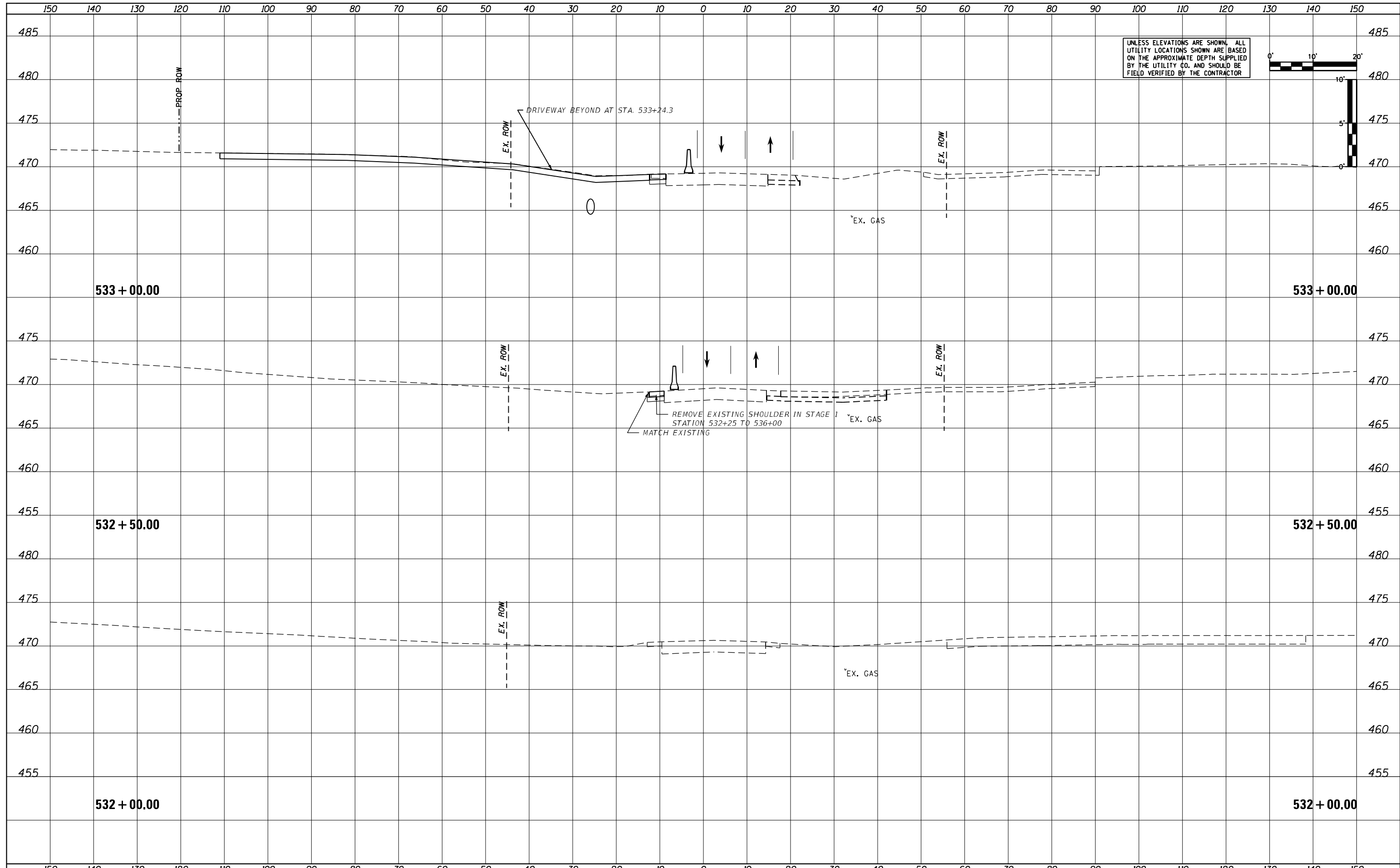
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

|  |                   |
|--|-------------------|
| <b>US24 - IL9<br/>PRE-STAGE CROSS SECTIONS</b> |                   |
| SCALE: AS SHOWN                                | SHEET OF SHEETS   |
| STA. 561+00.00                                 | TO STA. 561+00.00 |

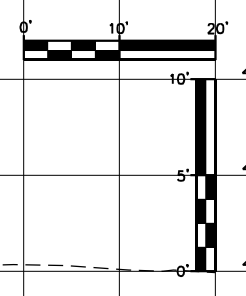
|                    |            |                  |              |           |
|--------------------|------------|------------------|--------------|-----------|
| F.A.P. RTE.        | SECTION    | COUNTY           | TOTAL SHEETS | SHEET NO. |
| 317A               | (43-BR) BR | FULTON           | 263          | 168       |
| CONTRACT NO. 68D34 |            |                  |              |           |
| ILLINOIS           |            | FED. AID PROJECT |              |           |

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| DATE   |  |
| BY     |  |
| SURVEY |  |
| NOTED  |  |
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| DATE   |  |
| BY     |  |
| SURVEY |  |
| NOTED  |  |
| NO.    |  |



UNLESS ELEVATIONS ARE SHOWN, ALL UTILITY LOCATIONS SHOWN ARE BASED ON THE APPROXIMATE DEPTH SUPPLIED BY THE UTILITY CO. AND SHOULD BE FIELD VERIFIED BY THE CONTRACTOR



|                             |                 |           |
|-----------------------------|-----------------|-----------|
| USER NAME = MWEA            | DESIGNED - KMC  | REVISED - |
|                             | DRAWN - KRS     | REVISED - |
| PLOT SCALE = 20.0000' / ft. | CHECKED - RDC   | REVISED - |
| PLOT DATE = 3/18/2021       | DATE - 03/17/21 | REVISED - |

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**US24 - IL9  
STAGE 1 CROSS SECTIONS**

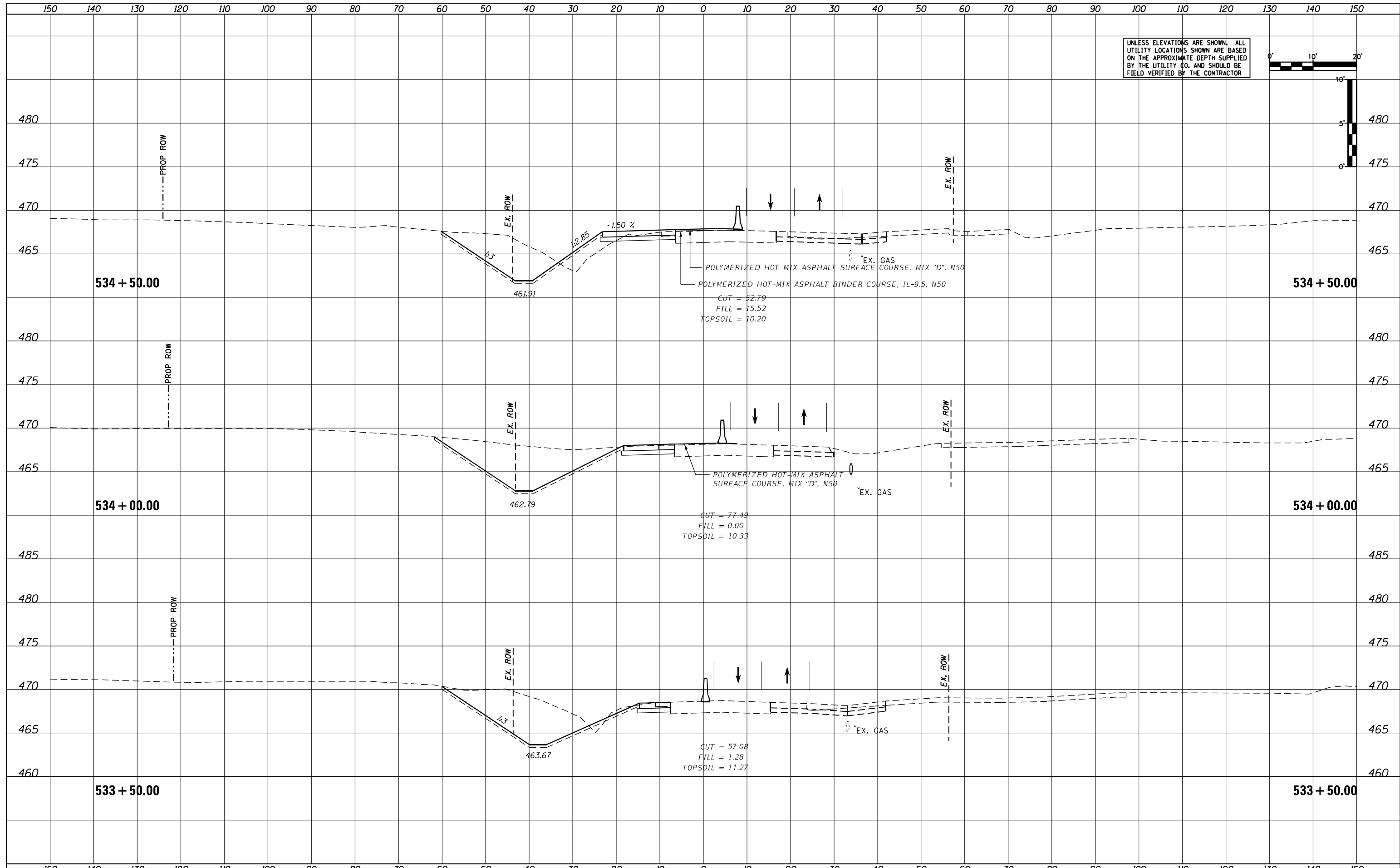
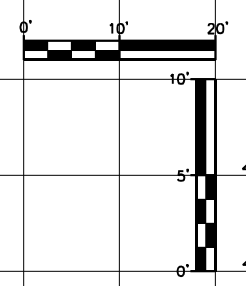
SCALE: AS SHOWN    SHEET    OF    SHEETS    STA. 532+00.00    TO STA. 533+00.00

|                           |            |        |              |           |
|---------------------------|------------|--------|--------------|-----------|
| F.A.P. RTE.               | SECTION    | COUNTY | TOTAL SHEETS | SHEET NO. |
| 317A                      | (43-BR) BR | FULTON | 263          | 169       |
| CONTRACT NO. 68D34        |            |        |              |           |
| ILLINOIS FED. AID PROJECT |            |        |              |           |

|               |  |
|---------------|--|
| DATE          |  |
| BY            |  |
| SURVEY        |  |
| PLOTTED       |  |
| TEMPLATE      |  |
| NOTE BOOK     |  |
| AREAS CHECKED |  |
| NO.           |  |

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| DATE          |  |
| BY            |  |
| SURVEY        |  |
| PLOTTED       |  |
| TEMPLATE      |  |
| NOTE BOOK     |  |
| AREAS CHECKED |  |
| NO.           |  |

UNLESS ELEVATIONS ARE SHOWN, ALL UTILITY LOCATIONS SHOWN ARE BASED ON THE APPROXIMATE DEPTH SUPPLIED BY THE UTILITY CO. AND SHOULD BE FIELD VERIFIED BY THE CONTRACTOR



|                             |                 |           |
|-----------------------------|-----------------|-----------|
| USER NAME = MWEA            | DESIGNED - KMC  | REVISED - |
|                             | DRAWN - KRS     | REVISED - |
| PLOT SCALE = 20.0000' / ft. | CHECKED - RDC   | REVISED - |
| PLOT DATE = 3/18/2021       | DATE - 03/17/21 | REVISED - |

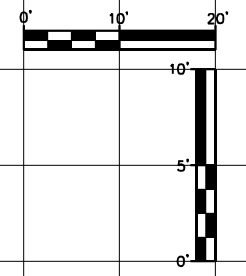
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**US24 - IL9  
STAGE 1 CROSS SECTIONS**

SCALE: AS SHOWN    SHEET    OF    SHEETS    STA. 533+50.00    TO STA. 534+50.00

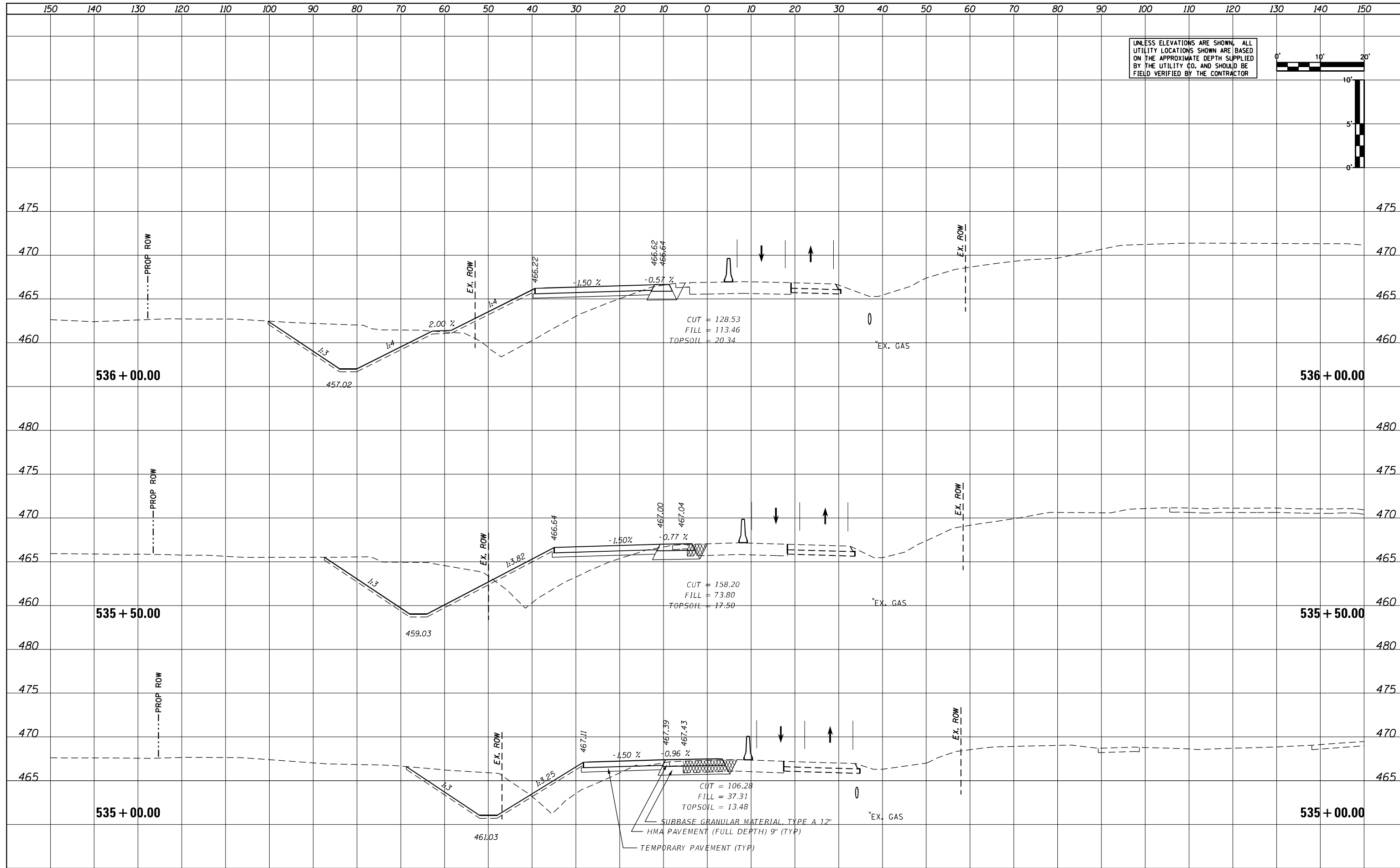
|                           |            |        |              |           |
|---------------------------|------------|--------|--------------|-----------|
| F.A.P. RTE.               | SECTION    | COUNTY | TOTAL SHEETS | SHEET NO. |
| 317A                      | (43-BR) BR | FULTON | 263          | 170       |
| CONTRACT NO. 68D34        |            |        |              |           |
| ILLINOIS FED. AID PROJECT |            |        |              |           |

UNLESS ELEVATIONS ARE SHOWN, ALL UTILITY LOCATIONS SHOWN ARE BASED ON THE APPROXIMATE DEPTH SUPPLIED BY THE UTILITY CO. AND SHOULD BE FIELD VERIFIED BY THE CONTRACTOR



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| DATE          |  |
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| NOTE BOOK     |  |
| AREAS CHECKED |  |
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STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

US24 - IL9  
STAGE 1 CROSS SECTIONS

|                             |                 |           |
|-----------------------------|-----------------|-----------|
| USER NAME = MWEA            | DESIGNED - KMC  | REVISED - |
| PLOT SCALE = 20.0000' / ft. | DRAWN - KRS     | REVISED - |
| PLOT DATE = 3/18/2021       | CHECKED - RDC   | REVISED - |
|                             | DATE - 03/17/21 | REVISED - |

|                 |       |    |        |                |                   |
|-----------------|-------|----|--------|----------------|-------------------|
| SCALE: AS SHOWN | SHEET | OF | SHEETS | STA. 535+00.00 | TO STA. 536+00.00 |
|-----------------|-------|----|--------|----------------|-------------------|

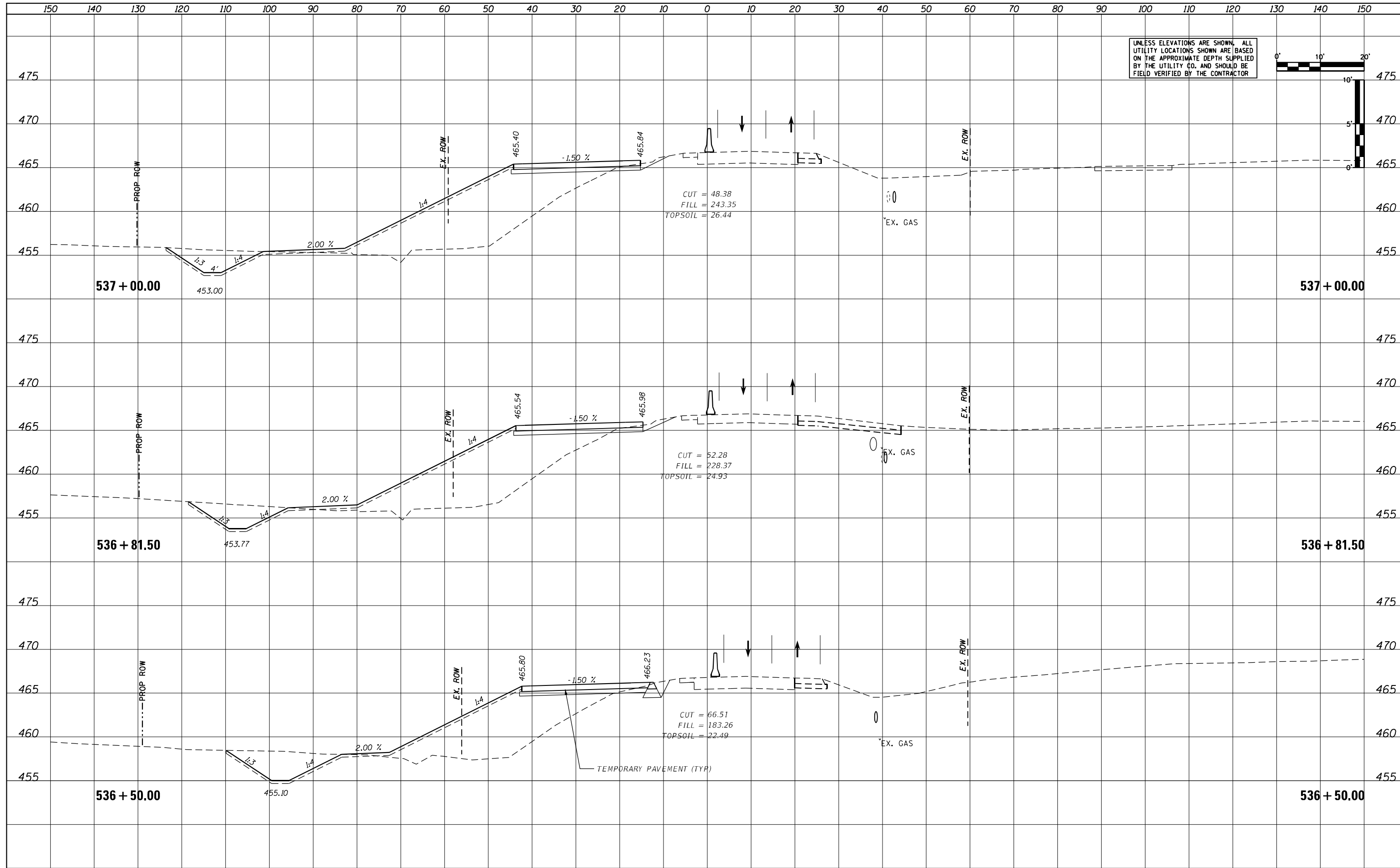
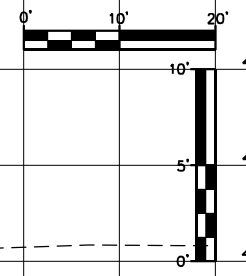
|                           |            |        |              |           |
|---------------------------|------------|--------|--------------|-----------|
| F.A.P. RTE.               | SECTION    | COUNTY | TOTAL SHEETS | SHEET NO. |
| 317A                      | (43-BR) BR | FULTON | 263          | 171       |
| CONTRACT NO. 68D34        |            |        |              |           |
| ILLINOIS FED. AID PROJECT |            |        |              |           |



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| AREAS CHECKED |  |
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UNLESS ELEVATIONS ARE SHOWN, ALL UTILITY LOCATIONS SHOWN ARE BASED ON THE APPROXIMATE DEPTH SUPPLIED BY THE UTILITY CO. AND SHOULD BE FIELD VERIFIED BY THE CONTRACTOR



|                             |                 |           |
|-----------------------------|-----------------|-----------|
| USER NAME = MWEA            | DESIGNED - KMC  | REVISED - |
|                             | DRAWN - KRS     | REVISED - |
| PLOT SCALE = 20.0000' / ft. | CHECKED - RDC   | REVISED - |
| PLOT DATE = 3/18/2021       | DATE - 03/17/21 | REVISED - |

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

US24 - IL9  
STAGE 1 CROSS SECTIONS

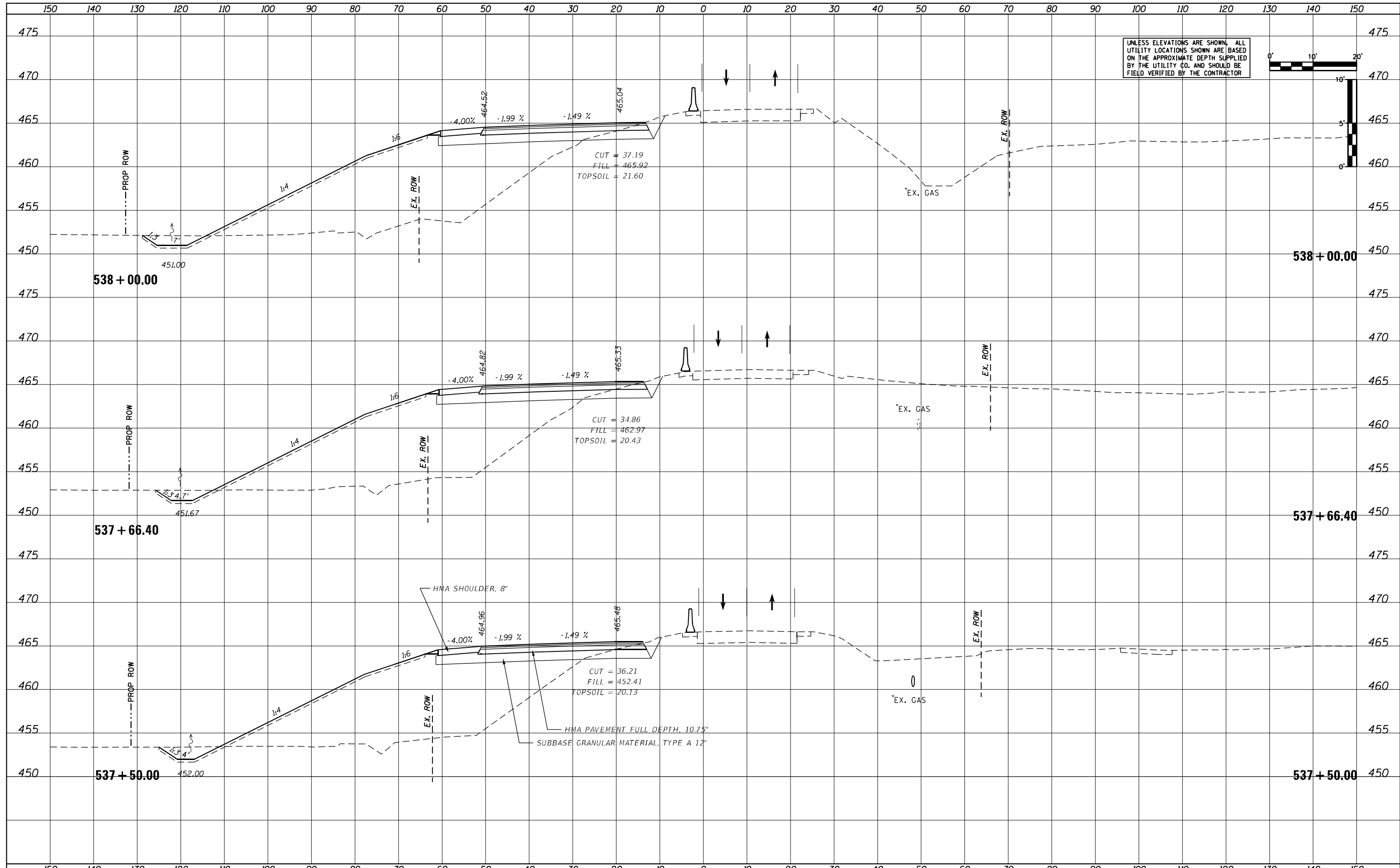
SCALE: AS SHOWN SHEET OF SHEETS STA. 536+50.00 TO STA. 537+00.00

|                    |            |        |              |           |
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| F.A.P. RTE.        | SECTION    | COUNTY | TOTAL SHEETS | SHEET NO. |
| 317A               | (43-BR) BR | FULTON | 263          | 172       |
| CONTRACT NO. 68D34 |            |        |              |           |

ILLINOIS FED. AID PROJECT

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| DATE          |  |
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|            |                  |          |            |         |   |
|------------|------------------|----------|------------|---------|---|
| USER NAME  | = MWEA           | DESIGNED | - KMC      | REVISED | - |
|            |                  | DRAWN    | - KRS      | REVISED | - |
| PLOT SCALE | = 20.0000' / ft. | CHECKED  | - RDC      | REVISED | - |
| PLOT DATE  | = 3/18/2021      | DATE     | = 03/17/21 | REVISED | - |

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

US24 - IL9  
STAGE 1 CROSS SECTIONS

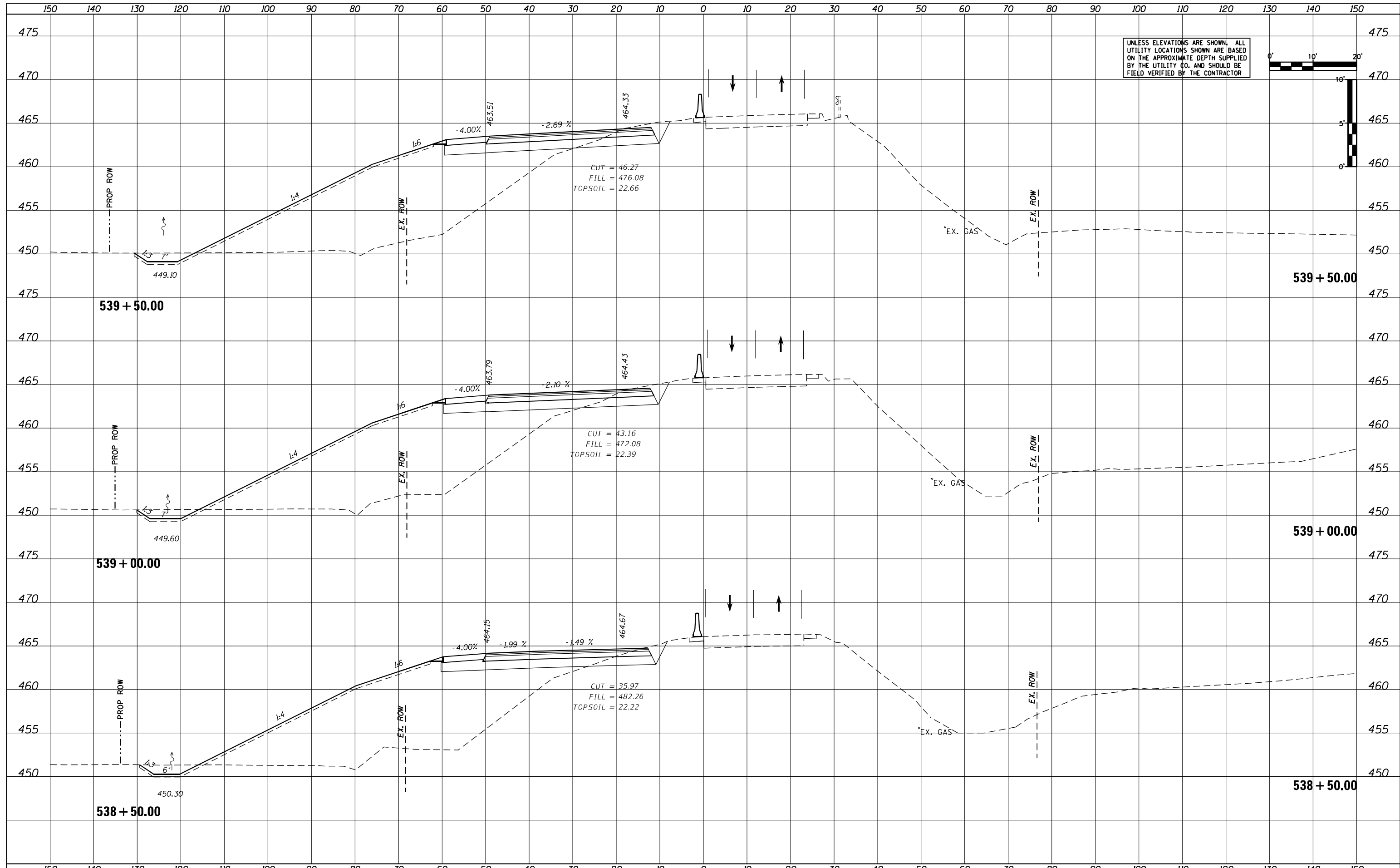
SCALE: AS SHOWN SHEET OF SHEETS STA. 537+50.00 TO STA. 538+00.00

|                    |            |        |              |           |
|--------------------|------------|--------|--------------|-----------|
| F.A.P. RTE.        | SECTION    | COUNTY | TOTAL SHEETS | SHEET NO. |
| 317A               | (43-BR) BR | FULTON | 263          | 173       |
| CONTRACT NO. 68D34 |            |        |              |           |

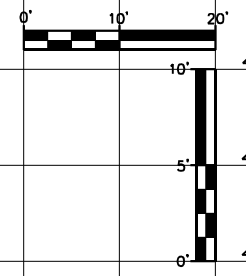
ILLINOIS FED. AID PROJECT

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| AREAS CHECKED |  |
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UNLESS ELEVATIONS ARE SHOWN, ALL UTILITY LOCATIONS SHOWN ARE BASED ON THE APPROXIMATE DEPTH SUPPLIED BY THE UTILITY CO. AND SHOULD BE FIELD VERIFIED BY THE CONTRACTOR



|                             |                 |           |
|-----------------------------|-----------------|-----------|
| USER NAME = MWEA            | DESIGNED - KMC  | REVISED - |
|                             | DRAWN - KRS     | REVISED - |
| PLOT SCALE = 20.0000' / ft. | CHECKED - RDC   | REVISED - |
| PLOT DATE = 3/18/2021       | DATE - 03/17/21 | REVISED - |

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**US24 - IL9  
STAGE 1 CROSS SECTIONS**

SCALE: AS SHOWN    SHEET    OF    SHEETS    STA. 538+50.00    TO STA. 539+50.00

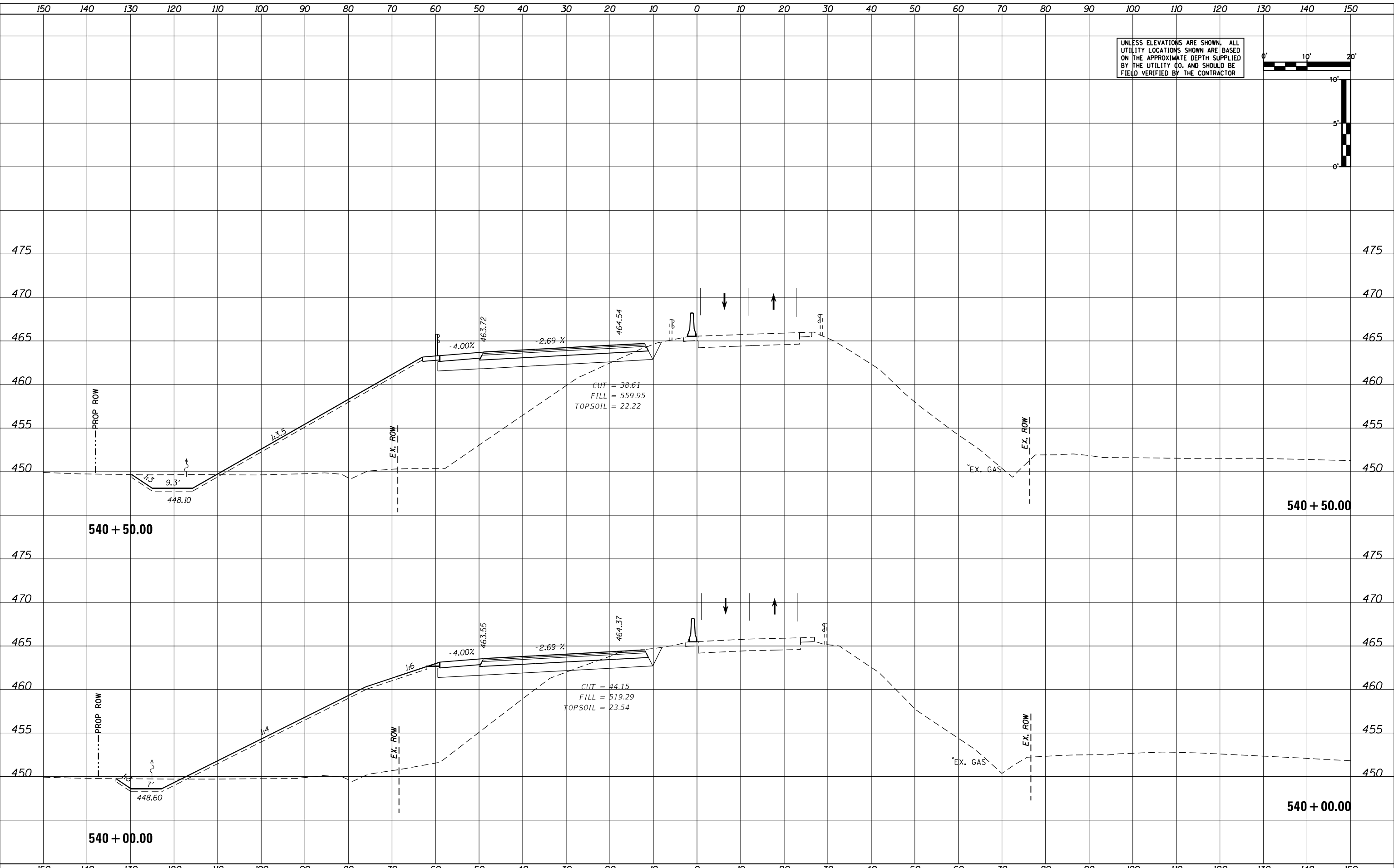
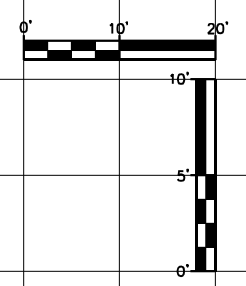
|                           |            |        |              |           |
|---------------------------|------------|--------|--------------|-----------|
| F.A.P. RTE.               | SECTION    | COUNTY | TOTAL SHEETS | SHEET NO. |
| 317A                      | (43-BR) BR | FULTON | 263          | 174       |
| CONTRACT NO. 68D34        |            |        |              |           |
| ILLINOIS FED. AID PROJECT |            |        |              |           |



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| NOTE BOOK     |  |
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| BY            |  |
| REVISIONS     |  |
| SURVEY        |  |
| PLOTTED       |  |
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| AREAS CHECKED |  |
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UNLESS ELEVATIONS ARE SHOWN, ALL UTILITY LOCATIONS SHOWN ARE BASED ON THE APPROXIMATE DEPTH SUPPLIED BY THE UTILITY CO. AND SHOULD BE FIELD VERIFIED BY THE CONTRACTOR



STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

US24 - IL9  
STAGE 1 CROSS SECTIONS

|                             |                 |           |
|-----------------------------|-----------------|-----------|
| USER NAME = MWEA            | DESIGNED - KMC  | REVISED - |
| PLOT SCALE = 20.0000' / ft. | DRAWN - KRS     | REVISED - |
| PLOT DATE = 3/18/2021       | CHECKED - RDC   | REVISED - |
|                             | DATE - 03/17/21 | REVISED - |

SCALE: AS SHOWN SHEET OF SHEETS STA. 540+00.00 TO STA. 540+50.00

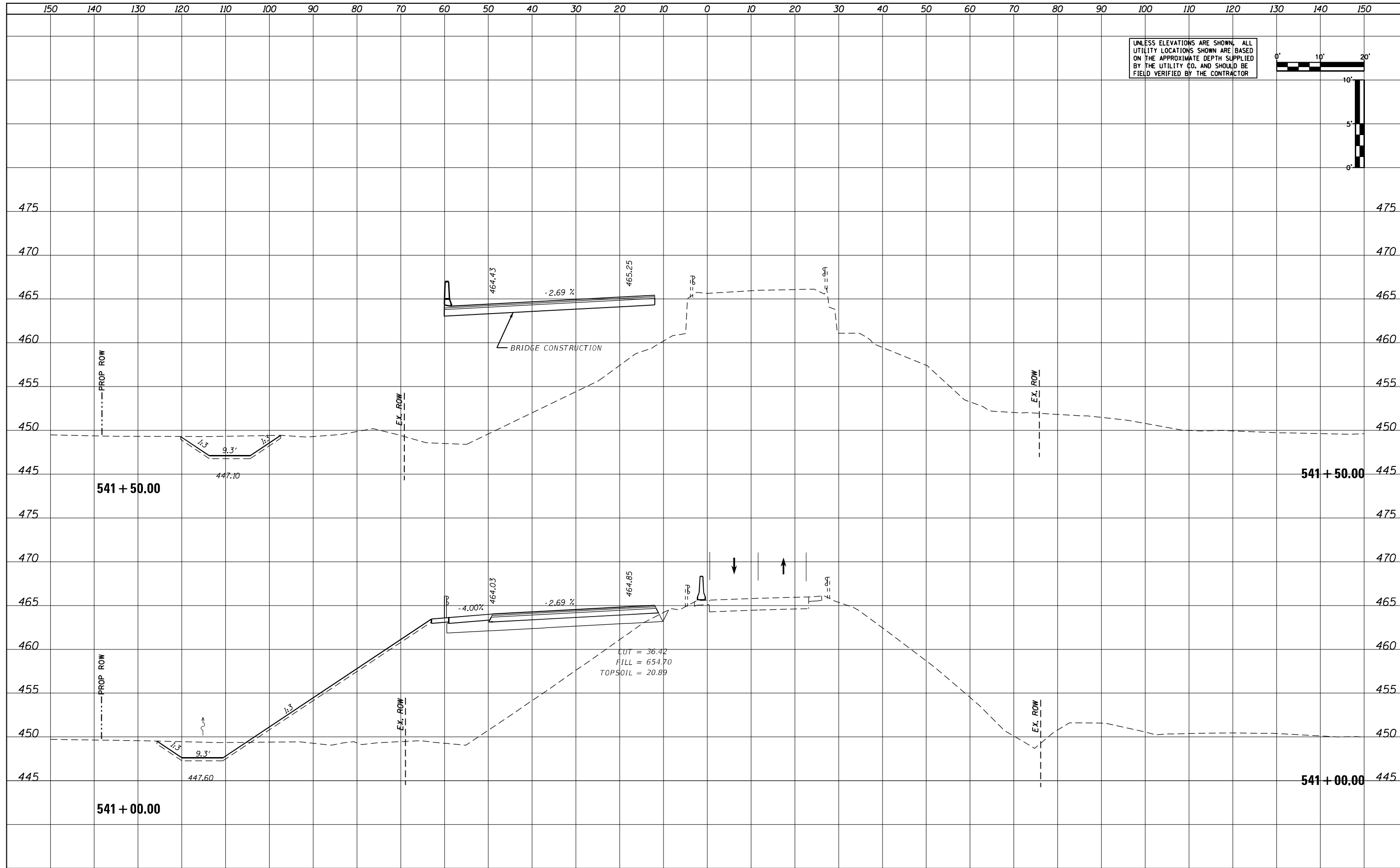
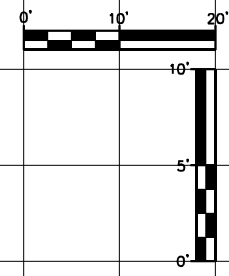
|                           |            |        |              |           |
|---------------------------|------------|--------|--------------|-----------|
| F.A.P. R.T.E.             | SECTION    | COUNTY | TOTAL SHEETS | SHEET NO. |
| 317A                      | (43-BR) BR | FULTON | 263          | 176       |
| CONTRACT NO. 68D34        |            |        |              |           |
| ILLINOIS FED. AID PROJECT |            |        |              |           |



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| DATE     |  |
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| DATE     |  |
| BY       |  |
| APPROVED |  |
| DATE     |  |
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UNLESS ELEVATIONS ARE SHOWN, ALL UTILITY LOCATIONS SHOWN ARE BASED ON THE APPROXIMATE DEPTH SUPPLIED BY THE UTILITY CO. AND SHOULD BE FIELD VERIFIED BY THE CONTRACTOR



|                             |                 |           |
|-----------------------------|-----------------|-----------|
| USER NAME = MWEA            | DESIGNED - KMC  | REVISED - |
|                             | DRAWN - KRS     | REVISED - |
| PLOT SCALE = 20.0000' / ft. | CHECKED - RDC   | REVISED - |
| PLOT DATE = 3/18/2021       | DATE = 03/17/21 | REVISED - |

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

US24 - IL9  
STAGE 1 CROSS SECTIONS

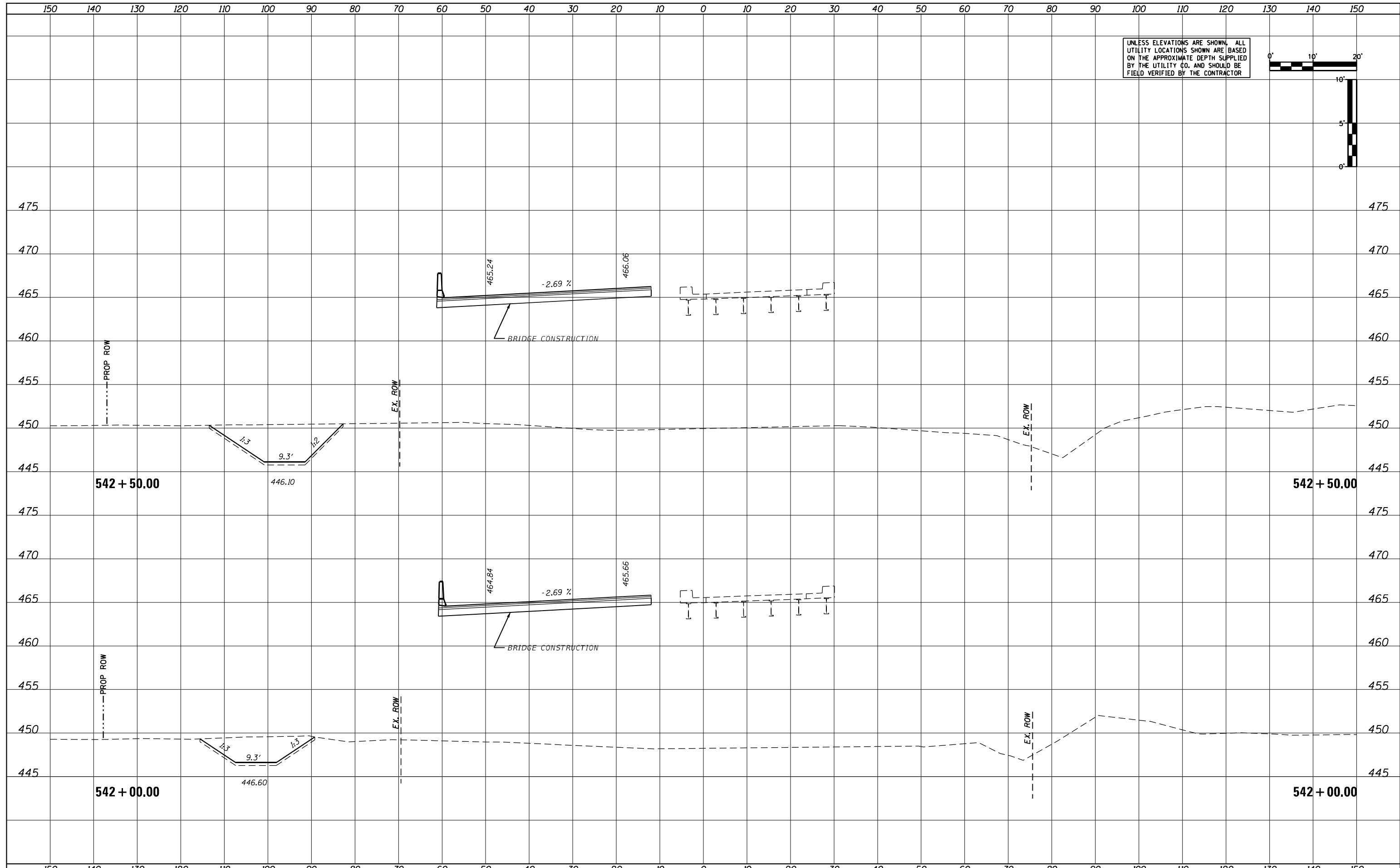
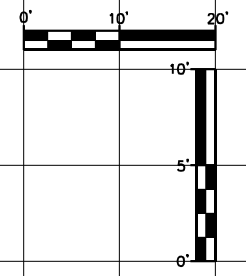
SCALE: AS SHOWN    SHEET    OF    SHEETS    STA. 541+00.00    TO STA. 541+50.00

| F.A.P. RTE.               | SECTION    | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------------|------------|--------|--------------|-----------|
| 317A                      | (43-BR) BR | FULTON | 263          | 176       |
| CONTRACT NO. 68D34        |            |        |              |           |
| ILLINOIS FED. AID PROJECT |            |        |              |           |

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| DATE          |  |
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| NOTE BOOK     |  |
| AREAS CHECKED |  |
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UNLESS ELEVATIONS ARE SHOWN, ALL UTILITY LOCATIONS SHOWN ARE BASED ON THE APPROXIMATE DEPTH SUPPLIED BY THE UTILITY CO. AND SHOULD BE FIELD VERIFIED BY THE CONTRACTOR



|                             |                 |           |
|-----------------------------|-----------------|-----------|
| USER NAME = MWEA            | DESIGNED - KMC  | REVISED - |
|                             | DRAWN - KRS     | REVISED - |
| PLOT SCALE = 20.0000' / ft. | CHECKED - RDC   | REVISED - |
| PLOT DATE = 3/18/2021       | DATE - 03/17/21 | REVISED - |

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

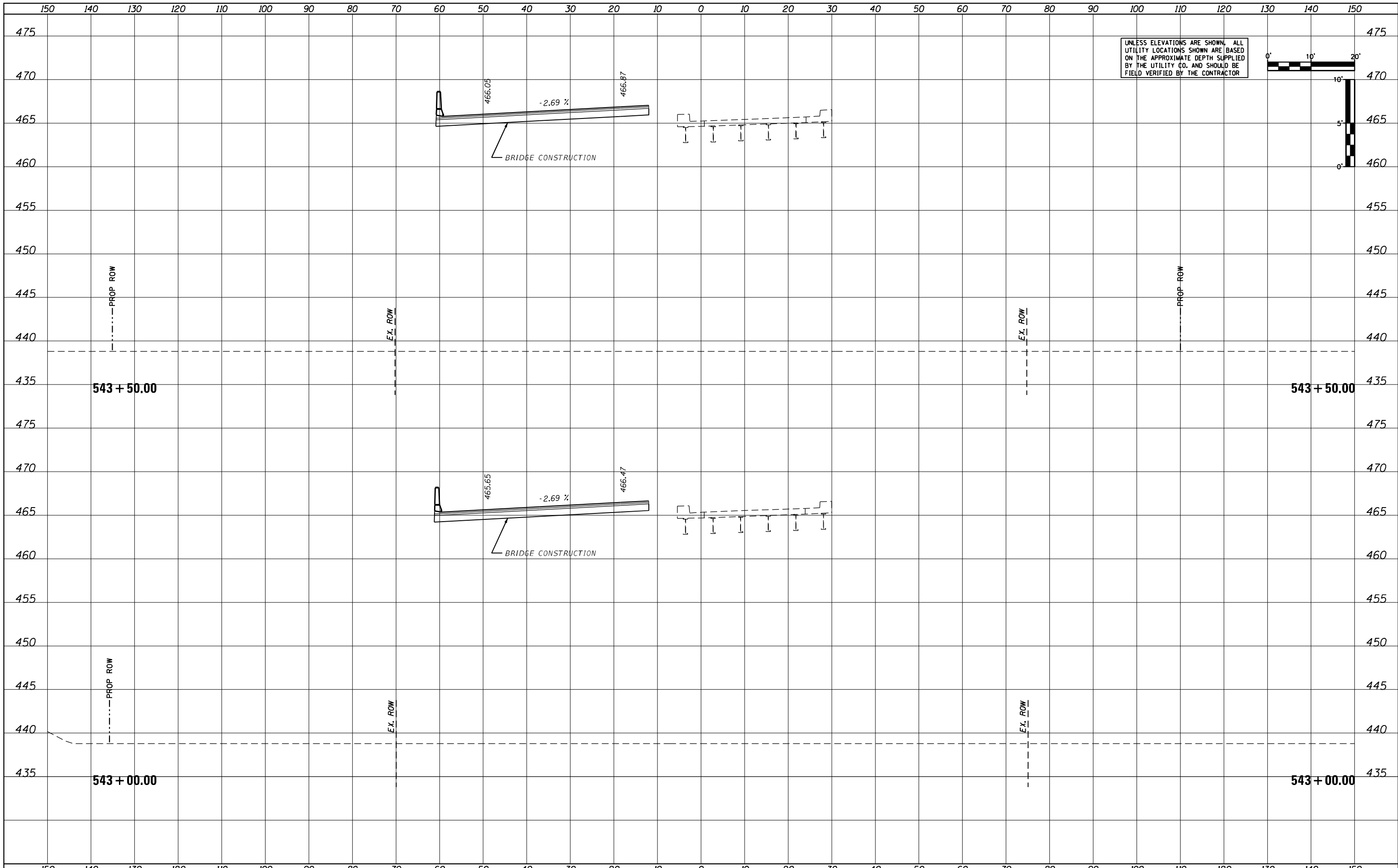
**US24 - IL9  
STAGE 1 CROSS SECTIONS**

SCALE: AS SHOWN    SHEET    OF    SHEETS    STA. 542+00.00    TO STA. 542+50.00

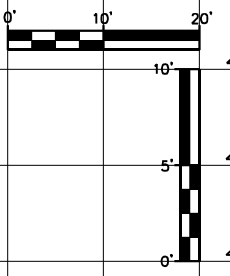
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|---------------------------|------------|--------|--------------|-----------|
| F.A.P. R.T.E.             | SECTION    | COUNTY | TOTAL SHEETS | SHEET NO. |
| 317A                      | (43-BR) BR | FULTON | 263          | 177       |
| CONTRACT NO. 68D34        |            |        |              |           |
| ILLINOIS FED. AID PROJECT |            |        |              |           |

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| DATE          |  |
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| AREAS CHECKED |  |
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UNLESS ELEVATIONS ARE SHOWN, ALL UTILITY LOCATIONS SHOWN ARE BASED ON THE APPROXIMATE DEPTH SUPPLIED BY THE UTILITY CO. AND SHOULD BE FIELD VERIFIED BY THE CONTRACTOR



|                             |                 |           |
|-----------------------------|-----------------|-----------|
| USER NAME = MWEA            | DESIGNED - KMC  | REVISED - |
|                             | DRAWN - KRS     | REVISED - |
| PLOT SCALE = 20.0000' / ft. | CHECKED - RDC   | REVISED - |
| PLOT DATE = 3/18/2021       | DATE - 03/17/21 | REVISED - |

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

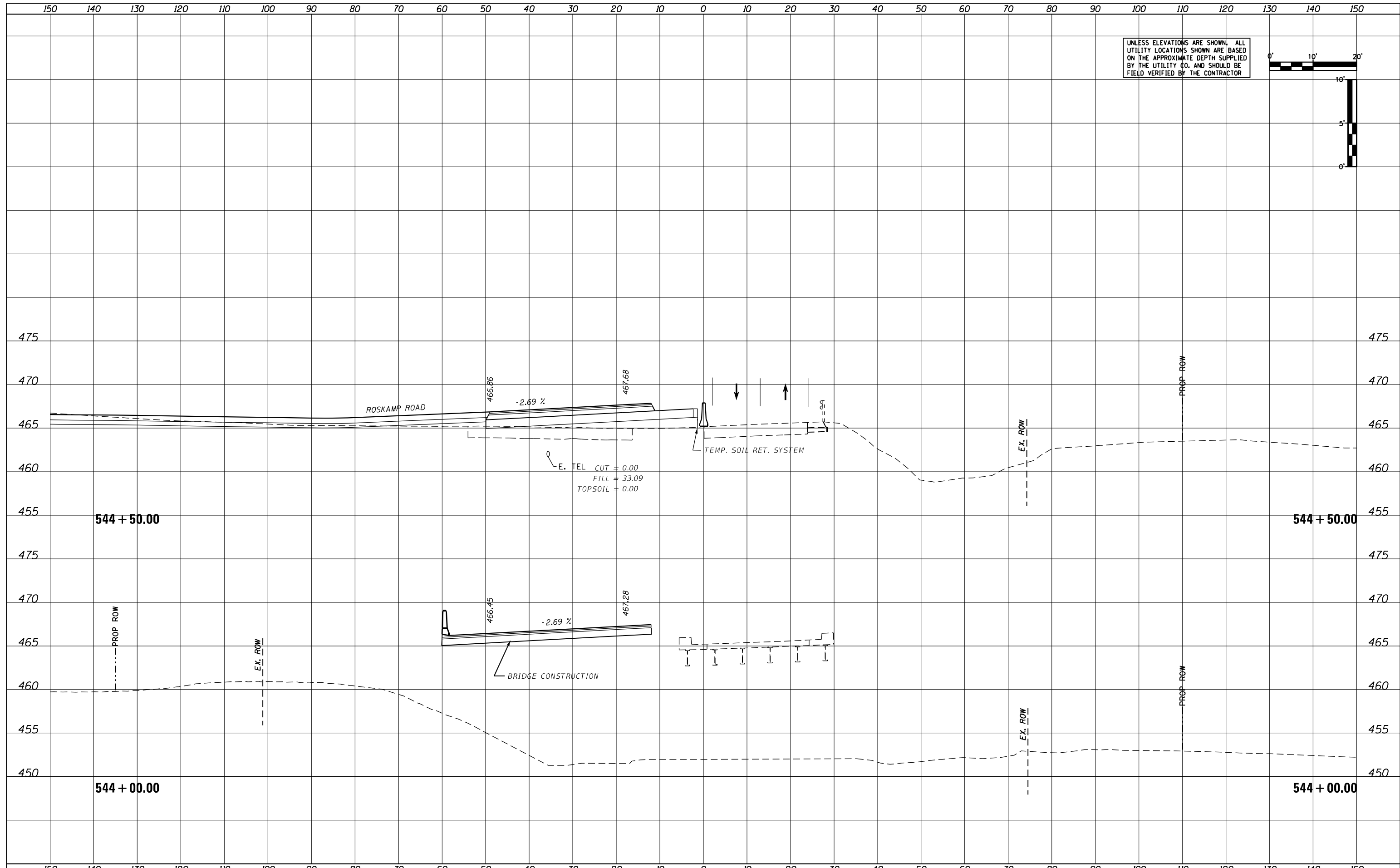
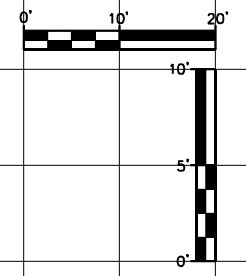
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| <b>US24 - IL9<br/>STAGE 1 CROSS SECTIONS</b> |                   |    |        |
| SCALE: AS SHOWN                              | SHEET             | OF | SHEETS |
| STA. 543+00.00                               | TO STA. 543+50.00 |    |        |

|                    |            |                  |              |           |
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| F.A.P. RTE.        | SECTION    | COUNTY           | TOTAL SHEETS | SHEET NO. |
| 317A               | (43-BR) BR | FULTON           | 263          | 178       |
| CONTRACT NO. 68D34 |            |                  |              |           |
| ILLINOIS           |            | FED. AID PROJECT |              |           |

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| DATE          |  |
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| TEMPLATE      |  |
| AREAS CHECKED |  |
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| AREAS CHECKED |  |
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UNLESS ELEVATIONS ARE SHOWN, ALL UTILITY LOCATIONS SHOWN ARE BASED ON THE APPROXIMATE DEPTH SUPPLIED BY THE UTILITY CO. AND SHOULD BE FIELD VERIFIED BY THE CONTRACTOR



|                             |                 |           |
|-----------------------------|-----------------|-----------|
| USER NAME = MWEA            | DESIGNED - KMC  | REVISED - |
|                             | DRAWN - KRS     | REVISED - |
| PLOT SCALE = 20.0000' / ft. | CHECKED - RDC   | REVISED - |
| PLOT DATE = 3/18/2021       | DATE - 03/17/21 | REVISED - |

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

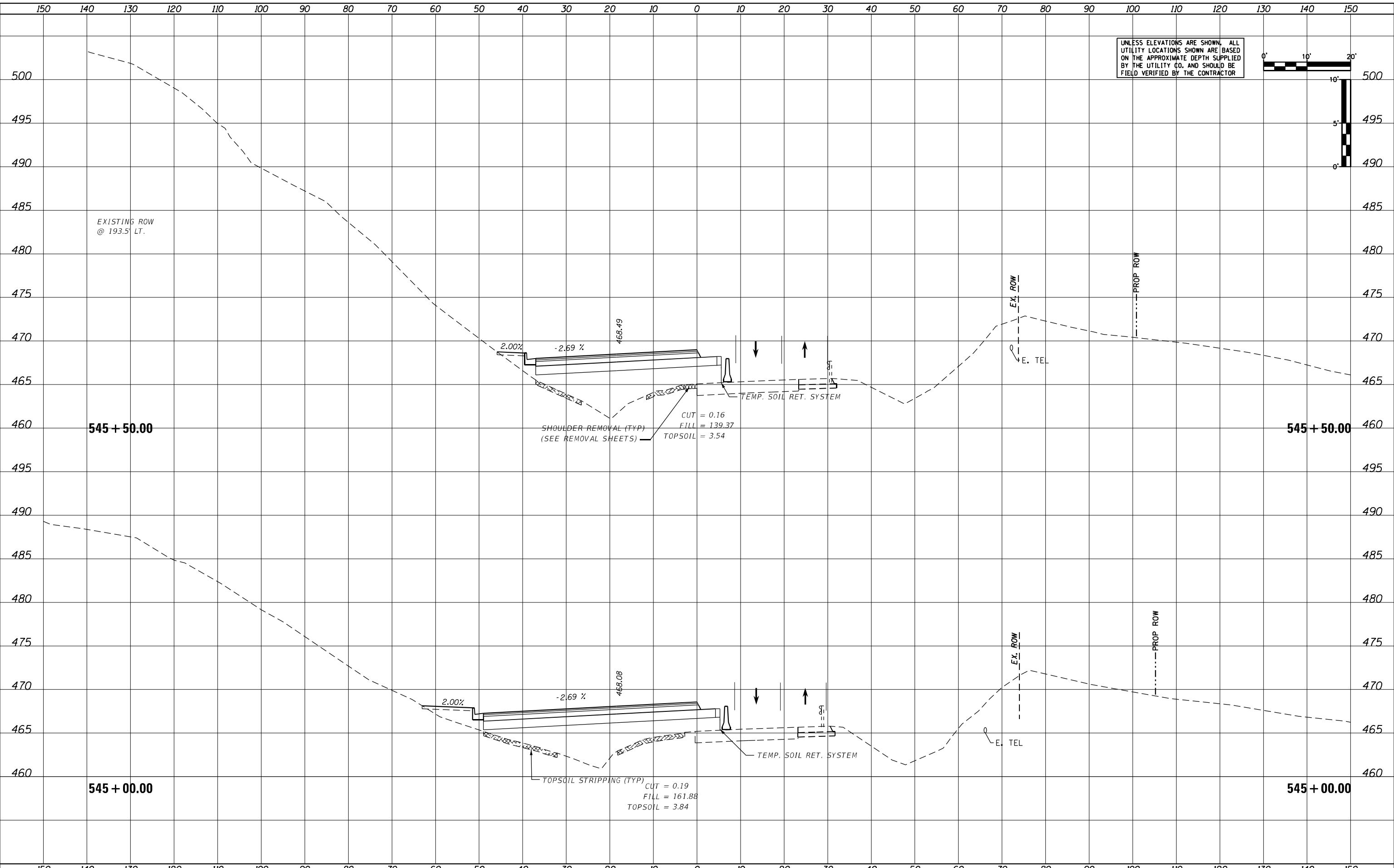
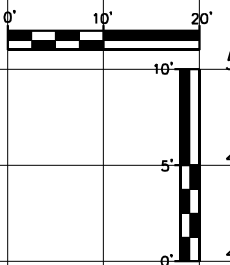
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| <b>US24 - IL9<br/>STAGE 1 CROSS SECTIONS</b> |                   |
| SCALE: AS SHOWN                              | SHEET OF SHEETS   |
| STA. 544+00.00                               | TO STA. 544+50.00 |

|                    |            |                  |              |           |
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| F.A.P. RTE.        | SECTION    | COUNTY           | TOTAL SHEETS | SHEET NO. |
| 317A               | (43-BR) BR | FULTON           | 263          | 179       |
| CONTRACT NO. 68D34 |            |                  |              |           |
| ILLINOIS           |            | FED. AID PROJECT |              |           |

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| NO.     |  |

UNLESS ELEVATIONS ARE SHOWN, ALL UTILITY LOCATIONS SHOWN ARE BASED ON THE APPROXIMATE DEPTH SUPPLIED BY THE UTILITY CO. AND SHOULD BE FIELD VERIFIED BY THE CONTRACTOR



|                            |                 |           |
|----------------------------|-----------------|-----------|
| USER NAME = MWEA           | DESIGNED - KMC  | REVISED - |
|                            | DRAWN - KRS     | REVISED - |
| PLOT SCALE = 20,000' / ft. | CHECKED - RDC   | REVISED - |
| PLOT DATE = 3/18/2021      | DATE - 03/17/21 | REVISED - |

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

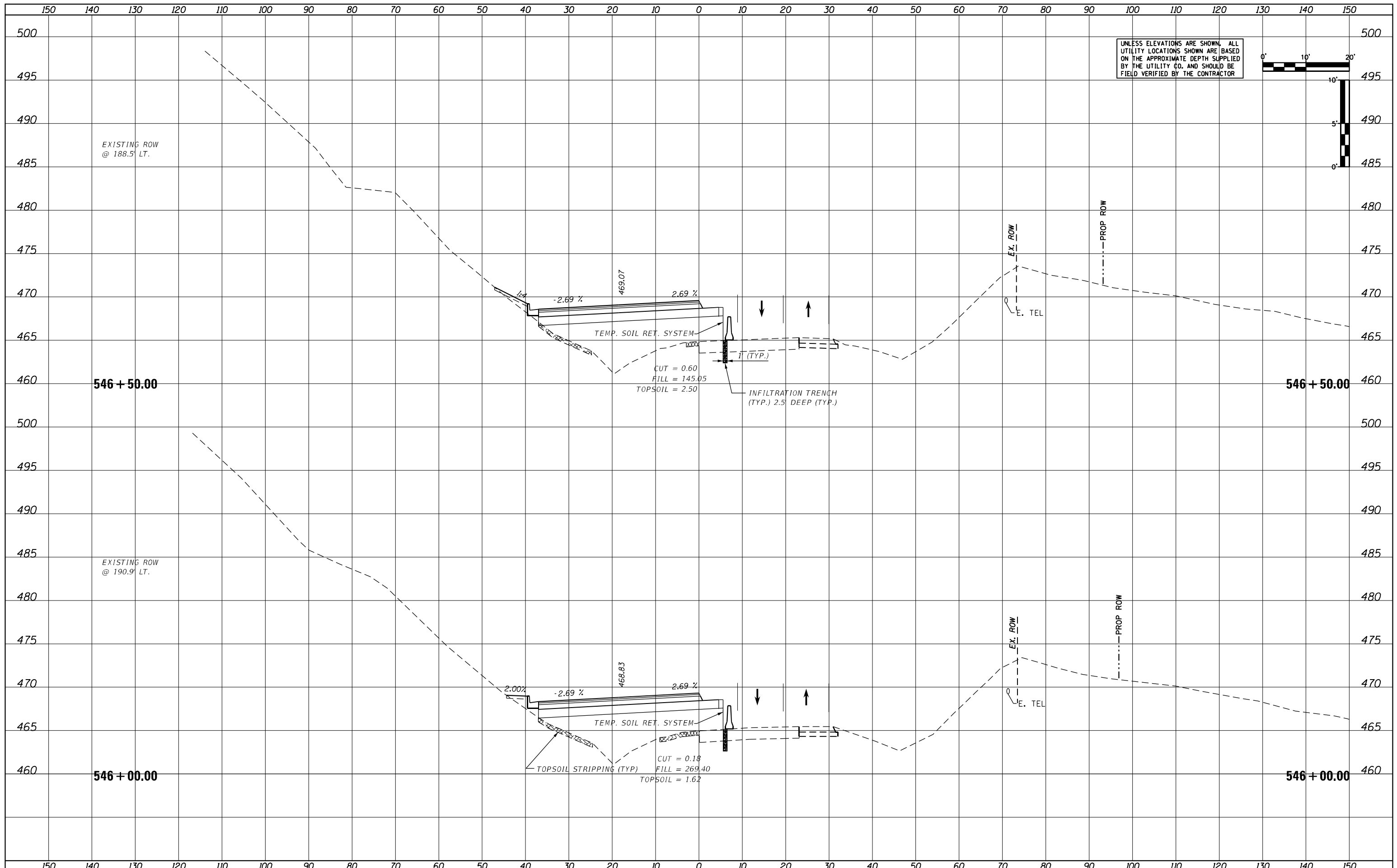
**US24 - IL9  
STAGE 1 CROSS SECTIONS**

SCALE: AS SHOWN SHEET OF SHEETS STA. 545+00.00 TO STA. 545+50.00

| F.A.P. RTE.        | SECTION    | COUNTY   | TOTAL SHEETS     | SHEET NO. |
|--------------------|------------|----------|------------------|-----------|
| 317A               | (43-BR) BR | FULTON   | 263              | 180       |
| CONTRACT NO. 68D34 |            |          |                  |           |
|                    |            | ILLINOIS | FED. AID PROJECT |           |

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| DATE          |  |
| BY            |  |
| SURVEY        |  |
| PLOTTED       |  |
| TEMPLATE      |  |
| NOTE BOOK     |  |
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|-----------------------------|-----------------|-----------|
| USER NAME = MWEA            | DESIGNED - KMC  | REVISED - |
| PLOT SCALE = 20.0000' / ft. | DRAWN - KRS     | REVISED - |
| PLOT DATE = 3/18/2021       | CHECKED - RDC   | REVISED - |
|                             | DATE - 03/17/21 | REVISED - |

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

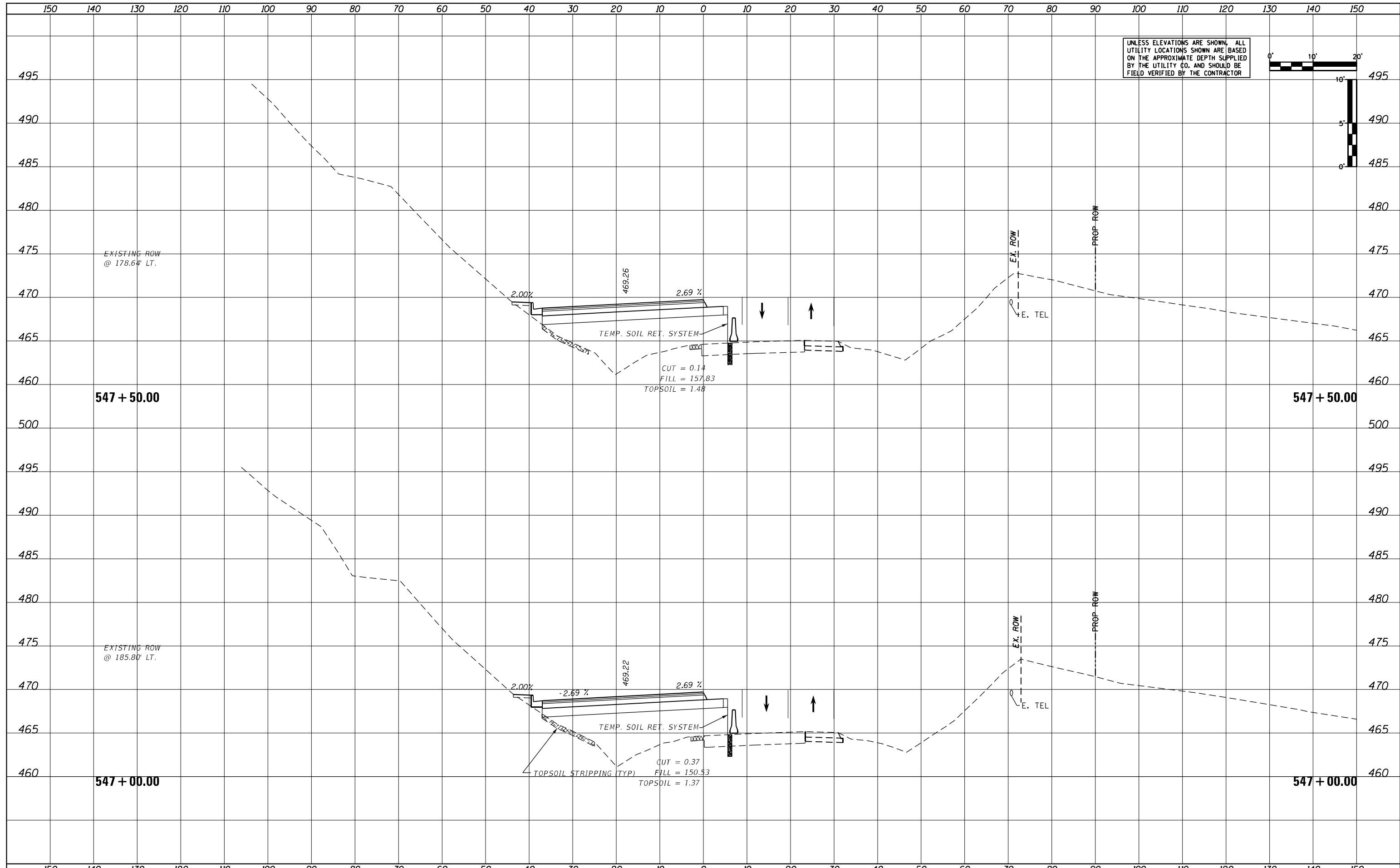
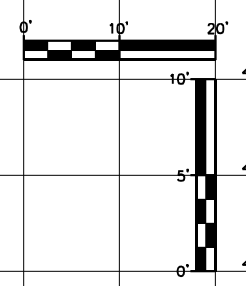
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| <b>US24 - IL9</b>             |                 |                                  |
| <b>STAGE 1 CROSS SECTIONS</b> |                 |                                  |
| SCALE: AS SHOWN               | SHEET OF SHEETS | STA. 546+00.00 TO STA. 546+50.00 |

|                    |            |                           |              |           |
|--------------------|------------|---------------------------|--------------|-----------|
| F.A.P. RTE.        | SECTION    | COUNTY                    | TOTAL SHEETS | SHEET NO. |
| 317A               | (43-BR) BR | FULTON                    | 263          | 181       |
| CONTRACT NO. 68D34 |            |                           |              |           |
|                    |            | ILLINOIS FED. AID PROJECT |              |           |

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| DATE          |  |
| BY            |  |
| SURVEY        |  |
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| SURVEY        |  |
| PLOTTED       |  |
| TEMPLATE      |  |
| AREAS         |  |
| AREAS CHECKED |  |
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UNLESS ELEVATIONS ARE SHOWN, ALL UTILITY LOCATIONS SHOWN ARE BASED ON THE APPROXIMATE DEPTH SUPPLIED BY THE UTILITY CO. AND SHOULD BE FIELD VERIFIED BY THE CONTRACTOR



|                             |                 |           |
|-----------------------------|-----------------|-----------|
| USER NAME = MWEA            | DESIGNED - KMC  | REVISED - |
|                             | DRAWN - KRS     | REVISED - |
| PLOT SCALE = 20.0000' / ft. | CHECKED - RDC   | REVISED - |
| PLOT DATE = 3/18/2021       | DATE - 03/17/21 | REVISED - |

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

US24 - IL9  
STAGE 1 CROSS SECTIONS

SCALE: AS SHOWN SHEET OF SHEETS STA. 547+00.00 TO STA. 547+50.00

|                    |            |        |              |           |
|--------------------|------------|--------|--------------|-----------|
| F.A.P. RTE.        | SECTION    | COUNTY | TOTAL SHEETS | SHEET NO. |
| 317A               | (43-BR) BR | FULTON | 263          | 182       |
| CONTRACT NO. 68D34 |            |        |              |           |

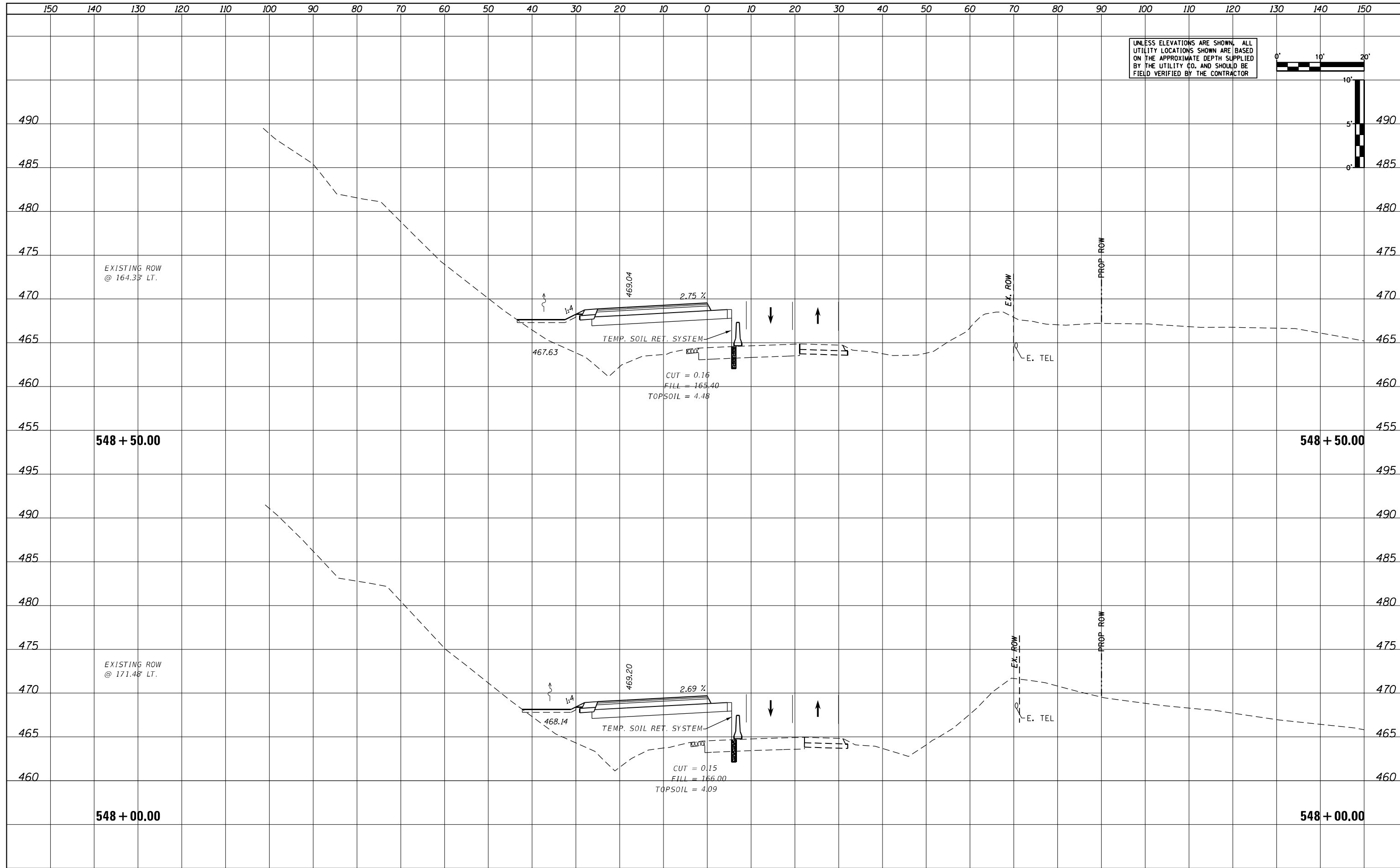
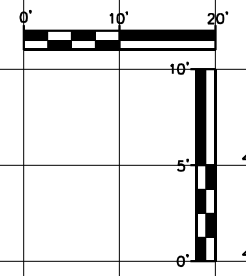
ILLINOIS FED. AID PROJECT



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| NOTE BOOK     |  |
| AREAS CHECKED |  |
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UNLESS ELEVATIONS ARE SHOWN, ALL UTILITY LOCATIONS SHOWN ARE BASED ON THE APPROXIMATE DEPTH SUPPLIED BY THE UTILITY CO. AND SHOULD BE FIELD VERIFIED BY THE CONTRACTOR



|                             |                 |           |
|-----------------------------|-----------------|-----------|
| USER NAME = MWEA            | DESIGNED - KMC  | REVISED - |
|                             | DRAWN - KRS     | REVISED - |
| PLOT SCALE = 20.0000' / ft. | CHECKED - RDC   | REVISED - |
| PLOT DATE = 3/18/2021       | DATE - 03/17/21 | REVISED - |

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**US24 - IL9  
STAGE 1 CROSS SECTIONS**

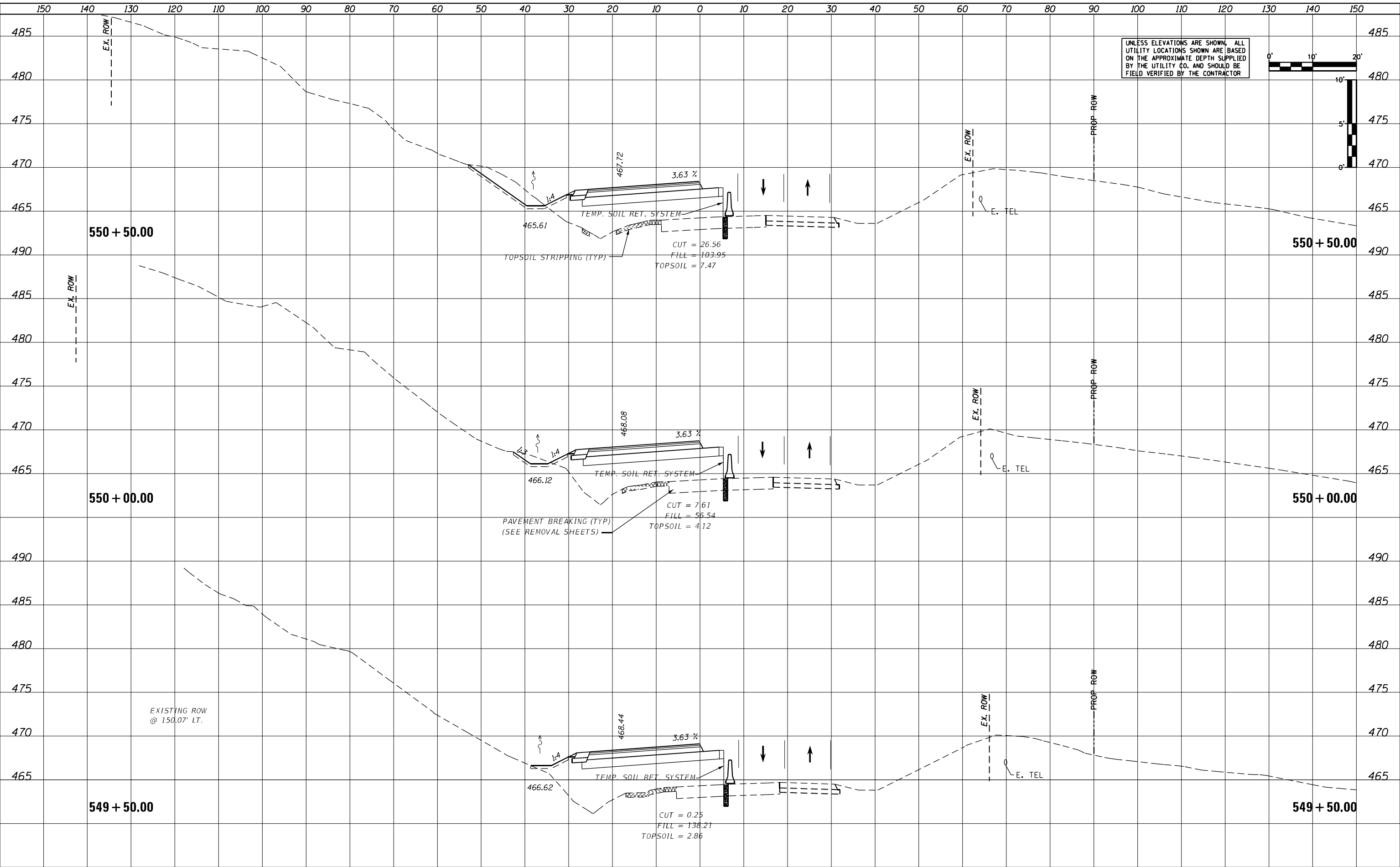
SCALE: AS SHOWN    SHEET    OF    SHEETS    STA. 548+00.00    TO STA. 548+50.00

|                           |            |        |              |           |
|---------------------------|------------|--------|--------------|-----------|
| F.A.P. RTE.               | SECTION    | COUNTY | TOTAL SHEETS | SHEET NO. |
| 317A                      | (43-BR) BR | FULTON | 263          | 183       |
| CONTRACT NO. 68D34        |            |        |              |           |
| ILLINOIS FED. AID PROJECT |            |        |              |           |

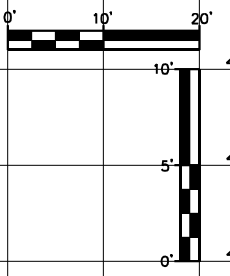


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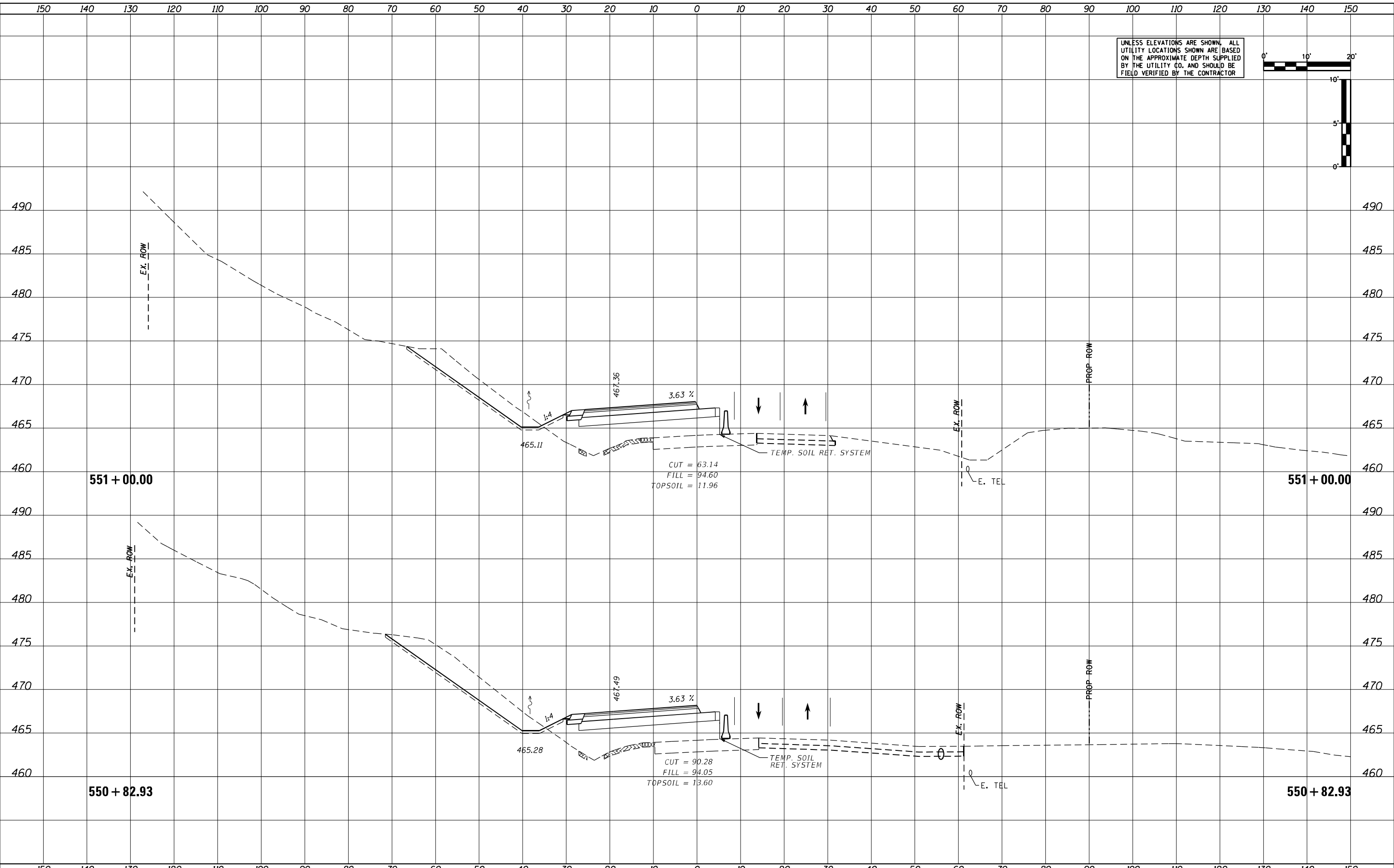
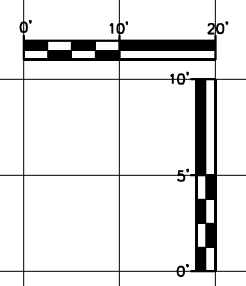
UNLESS ELEVATIONS ARE SHOWN, ALL UTILITY LOCATIONS SHOWN ARE BASED ON THE APPROXIMATE DEPTH SUPPLIED BY THE UTILITY CO. AND SHOULD BE FIELD VERIFIED BY THE CONTRACTOR



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| DATE          |  |
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| AREAS CHECKED |  |
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UNLESS ELEVATIONS ARE SHOWN, ALL UTILITY LOCATIONS SHOWN ARE BASED ON THE APPROXIMATE DEPTH SUPPLIED BY THE UTILITY CO. AND SHOULD BE FIELD VERIFIED BY THE CONTRACTOR



STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

US24 - IL9  
STAGE 1 CROSS SECTIONS

|                             |                 |           |
|-----------------------------|-----------------|-----------|
| USER NAME = MWEA            | DESIGNED - KMC  | REVISED - |
| PLOT SCALE = 20.0000' / ft. | DRAWN - KRS     | REVISED - |
| PLOT DATE = 3/18/2021       | CHECKED - RDC   | REVISED - |
|                             | DATE - 03/17/21 | REVISED - |

SCALE: AS SHOWN SHEET OF SHEETS STA. 550+82.93 TO STA. 551+00.00

| F.A.P. RTE.        | SECTION    | COUNTY | TOTAL SHEETS | SHEET NO. |
|--------------------|------------|--------|--------------|-----------|
| 317A               | (43-BR) BR | FULTON | 263          | 186       |
| CONTRACT NO. 68D34 |            |        |              |           |

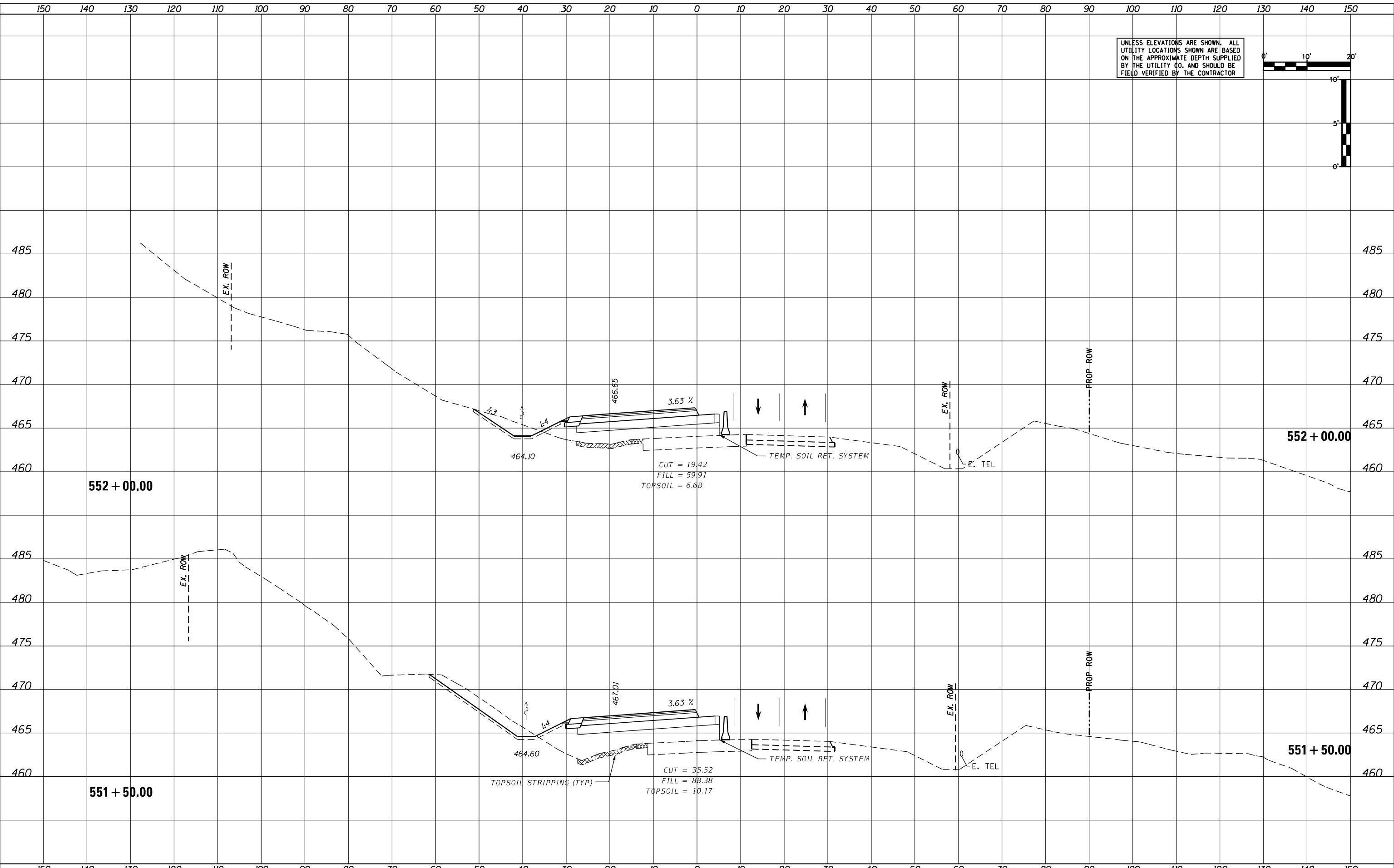
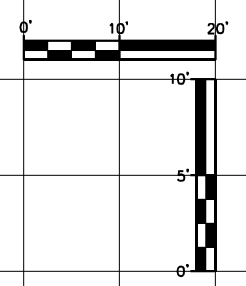


ILLINOIS FED. AID PROJECT

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| TEMPLATE      |  |
| AREAS         |  |
| AREAS CHECKED |  |
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UNLESS ELEVATIONS ARE SHOWN, ALL UTILITY LOCATIONS SHOWN ARE BASED ON THE APPROXIMATE DEPTH SUPPLIED BY THE UTILITY CO. AND SHOULD BE FIELD VERIFIED BY THE CONTRACTOR



|                             |                 |           |
|-----------------------------|-----------------|-----------|
| USER NAME = MWEA            | DESIGNED - KMC  | REVISED - |
| PLOT SCALE = 20.0000' / ft. | DRAWN - KRS     | REVISED - |
| PLOT DATE = 3/18/2021       | CHECKED - RDC   | REVISED - |
|                             | DATE - 03/17/21 | REVISED - |

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**US24 - IL9  
STAGE 1 CROSS SECTIONS**

SCALE: AS SHOWN SHEET OF SHEETS STA. 551+50.00 TO STA. 552+00.00

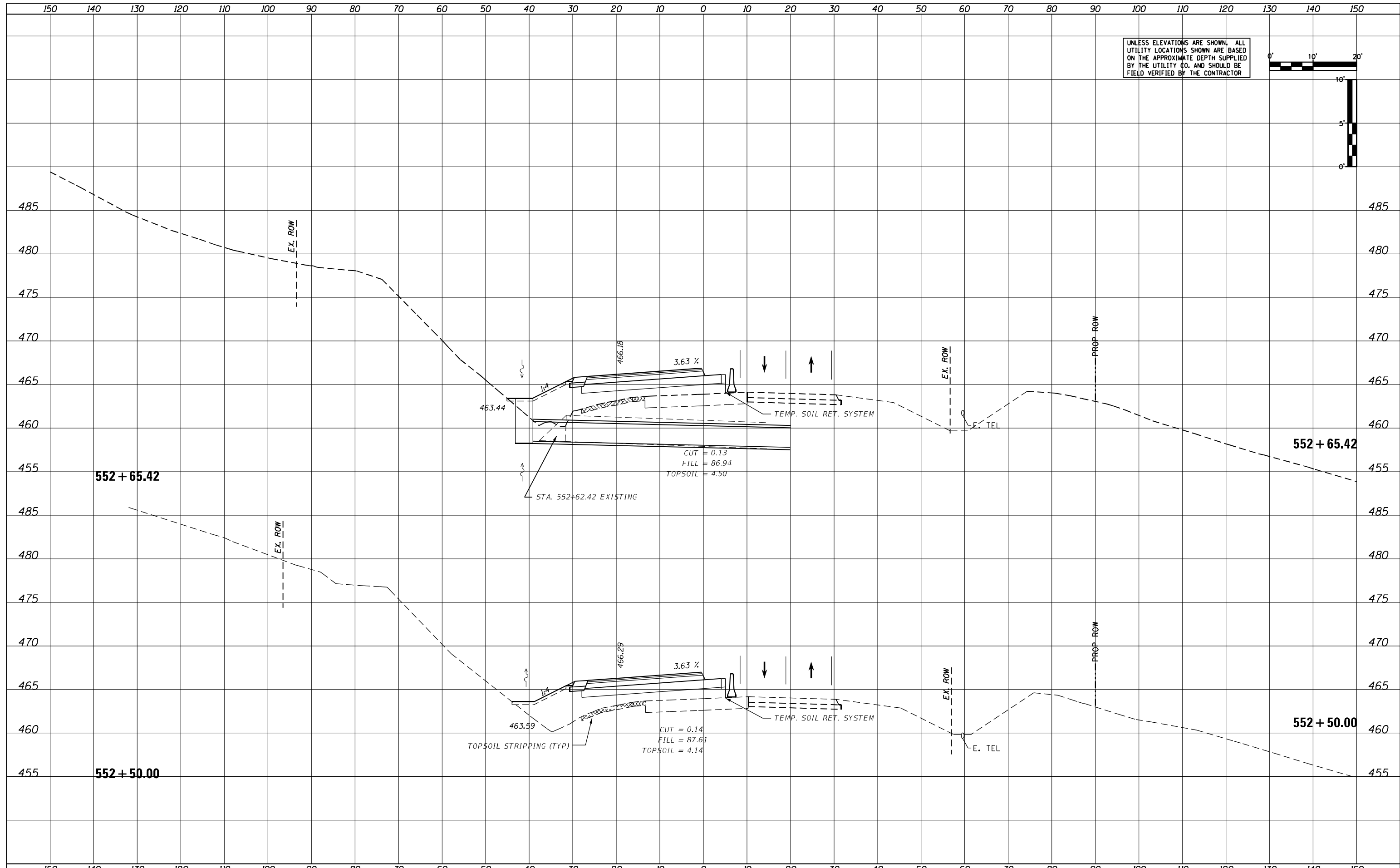
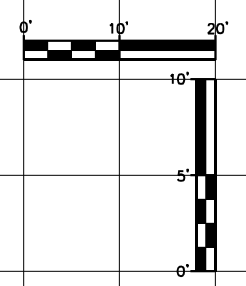
|                    |            |        |              |           |
|--------------------|------------|--------|--------------|-----------|
| F.A.P. RTE.        | SECTION    | COUNTY | TOTAL SHEETS | SHEET NO. |
| 317A               | (43-BR) BR | FULTON | 263          | 187       |
| CONTRACT NO. 68D34 |            |        |              |           |

ILLINOIS FED. AID PROJECT

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| DATE          |  |
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| REVISIONS     |  |
| SURVEY        |  |
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| NOTE BOOK     |  |
| AREAS         |  |
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| DATE          |  |
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| NOTE BOOK     |  |
| AREAS         |  |
| AREAS CHECKED |  |
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UNLESS ELEVATIONS ARE SHOWN, ALL UTILITY LOCATIONS SHOWN ARE BASED ON THE APPROXIMATE DEPTH SUPPLIED BY THE UTILITY CO. AND SHOULD BE FIELD VERIFIED BY THE CONTRACTOR



|                           |                 |           |
|---------------------------|-----------------|-----------|
| USER NAME = MWEA          | DESIGNED - KMC  | REVISED - |
| PLOT SCALE = 20,000' / 1" | DRAWN - KRS     | REVISED - |
| PLOT DATE = 3/18/2021     | CHECKED - RDC   | REVISED - |
|                           | DATE - 03/17/21 | REVISED - |

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**US24 - IL9  
STAGE 1 CROSS SECTIONS**

SCALE: AS SHOWN    SHEET    OF    SHEETS    STA. 552+50.00    TO STA. 552+65.42

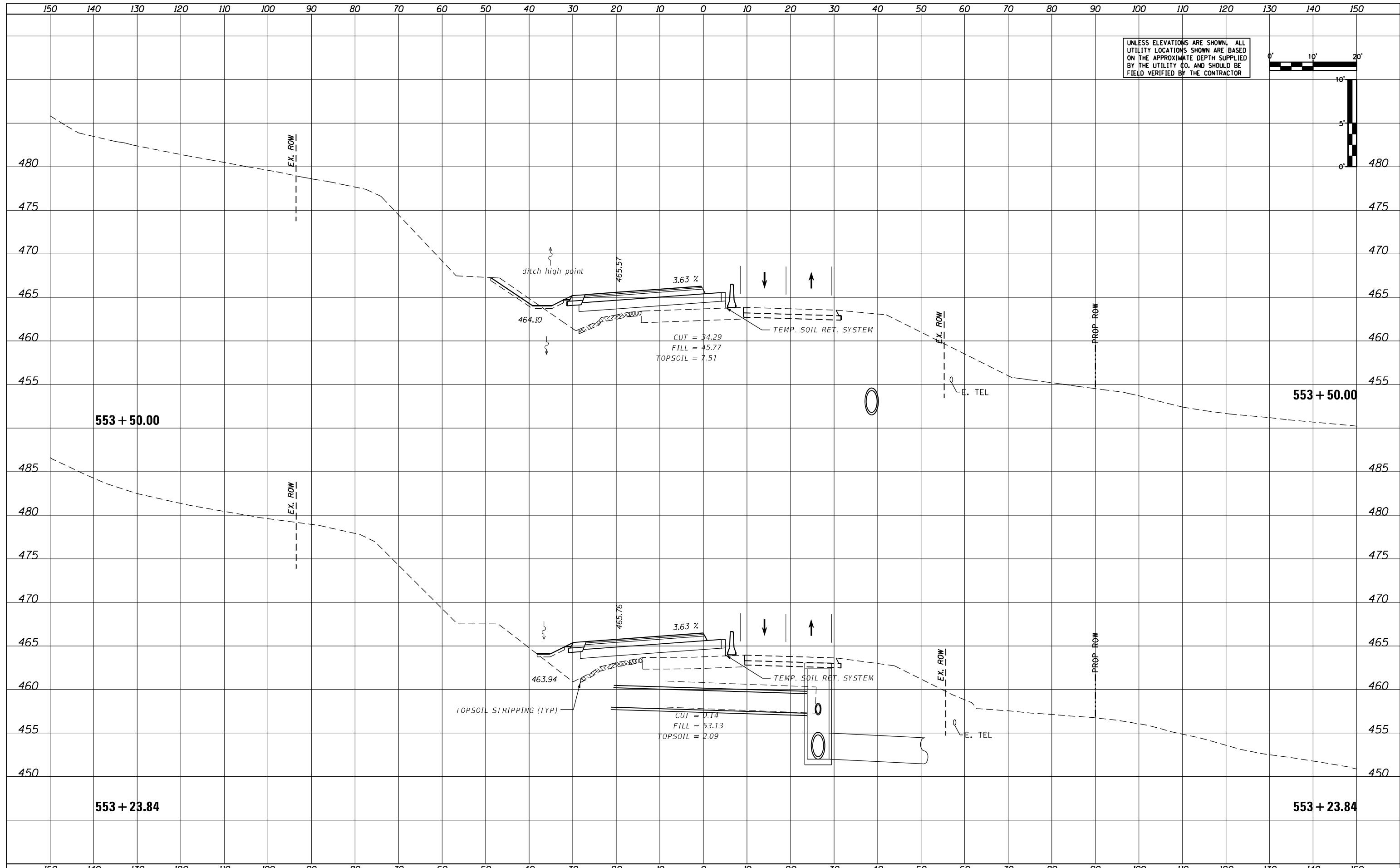
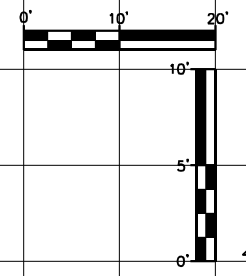
|                           |            |        |              |           |
|---------------------------|------------|--------|--------------|-----------|
| F.A.P. RTE.               | SECTION    | COUNTY | TOTAL SHEETS | SHEET NO. |
| 317A                      | (43-BR) BR | FULTON | 263          | 188       |
| CONTRACT NO. 68D34        |            |        |              |           |
| ILLINOIS FED. AID PROJECT |            |        |              |           |



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| DATE          |  |
| BY            |  |
| SURVEY        |  |
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| TEMPLATE      |  |
| AREAS         |  |
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| DATE          |  |
| BY            |  |
| SURVEY        |  |
| PLOTTED       |  |
| TEMPLATE      |  |
| AREAS         |  |
| AREAS CHECKED |  |
| NO.           |  |

UNLESS ELEVATIONS ARE SHOWN, ALL UTILITY LOCATIONS SHOWN ARE BASED ON THE APPROXIMATE DEPTH SUPPLIED BY THE UTILITY CO. AND SHOULD BE FIELD VERIFIED BY THE CONTRACTOR



|           |            |
|-----------|------------|
| USER NAME | = MWEA     |
| DESIGNED  | - KMC      |
| DRAWN     | - KRS      |
| CHECKED   | - RDC      |
| DATE      | - 03/17/21 |
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| REVISIONS |            |

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

US24 - IL9  
STAGE 1 CROSS SECTIONS

SCALE: AS SHOWN SHEET OF SHEETS STA. 553+23.84 TO STA. 553+50.00

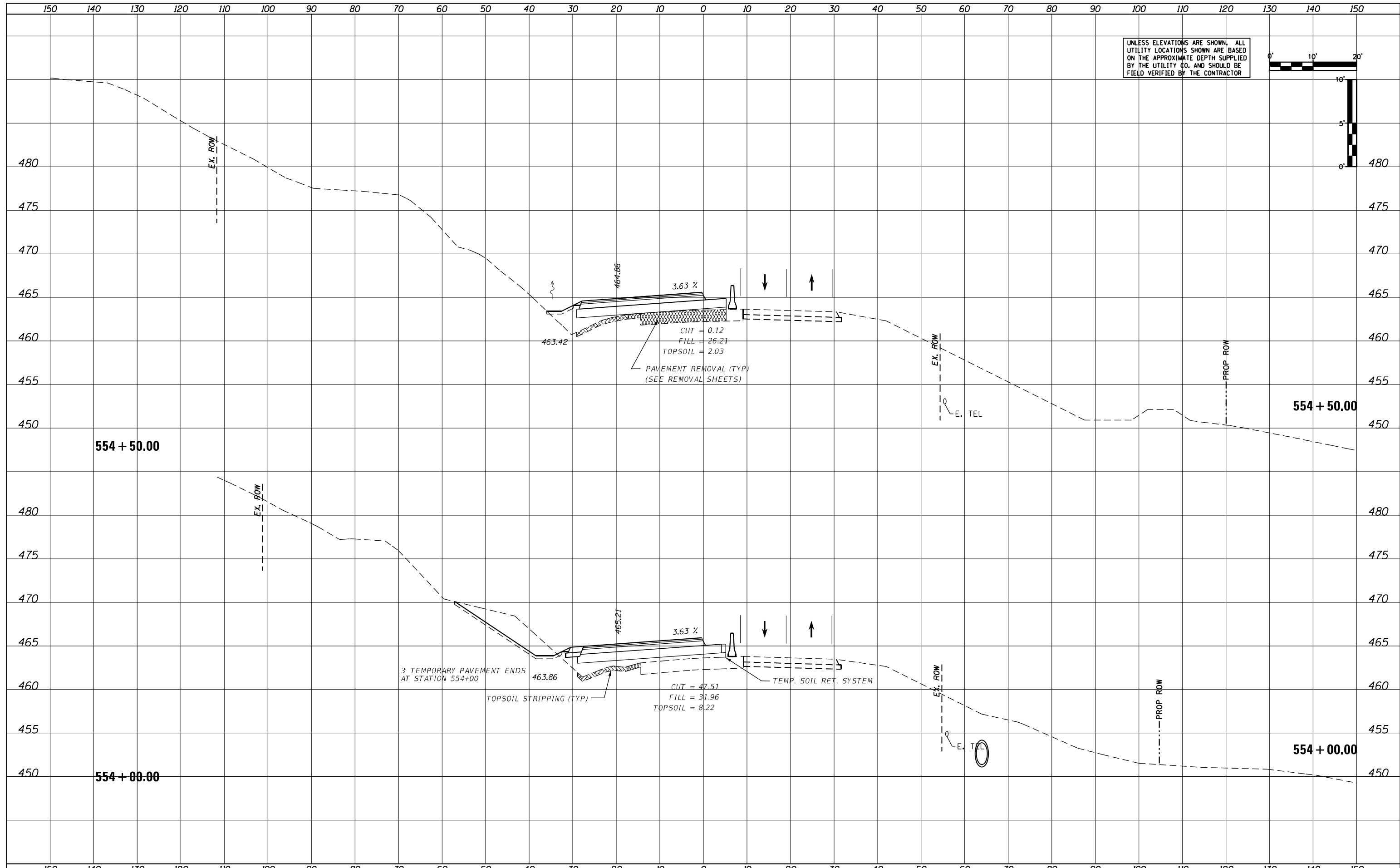
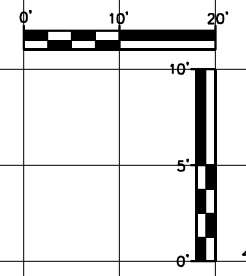
|                           |            |        |              |           |
|---------------------------|------------|--------|--------------|-----------|
| F.A.P. RTE.               | SECTION    | COUNTY | TOTAL SHEETS | SHEET NO. |
| 317A                      | (43-BR) BR | FULTON | 263          | 190       |
| CONTRACT NO. 68D34        |            |        |              |           |
| ILLINOIS FED. AID PROJECT |            |        |              |           |



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| DATE            |  |
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| REVISED         |  |
| PLOTTED         |  |
| TEMPLATE        |  |
| AREAS           |  |
| AREAS CHECKED   |  |
| NO.             |  |
| ORIGINAL SURVEY |  |
| NOTE BOOK       |  |
| NO.             |  |

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| DATE            |  |
| BY              |  |
| REVISED         |  |
| PLOTTED         |  |
| TEMPLATE        |  |
| AREAS           |  |
| AREAS CHECKED   |  |
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| ORIGINAL SURVEY |  |
| NOTE BOOK       |  |
| NO.             |  |

UNLESS ELEVATIONS ARE SHOWN, ALL UTILITY LOCATIONS SHOWN ARE BASED ON THE APPROXIMATE DEPTH SUPPLIED BY THE UTILITY CO. AND SHOULD BE FIELD VERIFIED BY THE CONTRACTOR



|                             |                 |           |
|-----------------------------|-----------------|-----------|
| USER NAME = MWEA            | DESIGNED - KMC  | REVISED - |
| PLOT SCALE = 20.0000' / ft. | DRAWN - KRS     | REVISED - |
| PLOT DATE = 3/18/2021       | CHECKED - RDC   | REVISED - |
|                             | DATE - 03/17/21 | REVISED - |

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

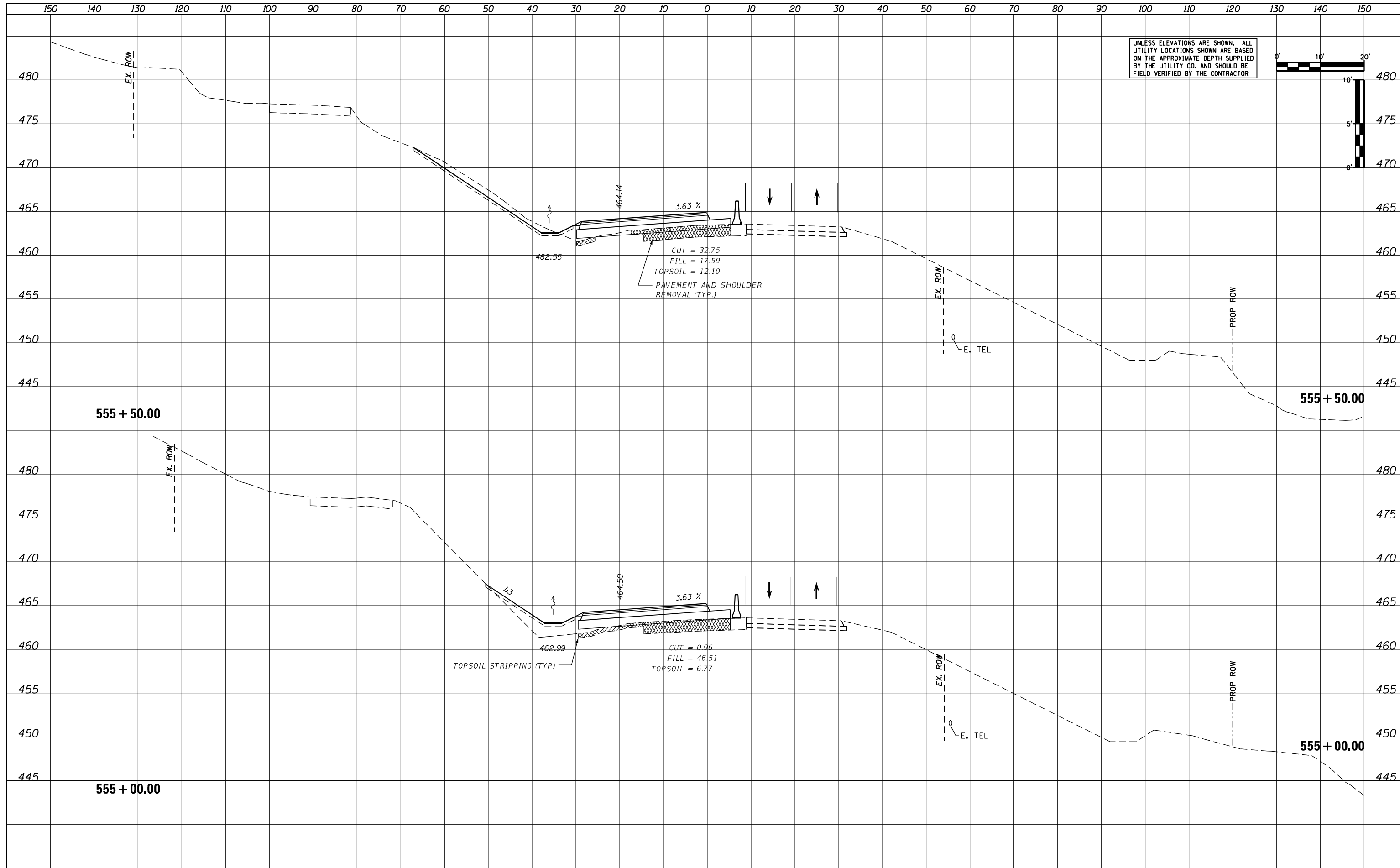
**US24 - IL9  
STAGE 1 CROSS SECTIONS**

SCALE: AS SHOWN    SHEET    OF    SHEETS    STA. 554+00.00    TO STA. 554+50.00

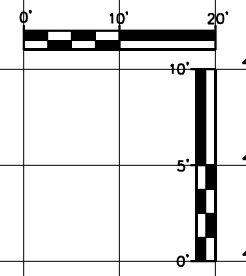
|                           |            |        |              |           |
|---------------------------|------------|--------|--------------|-----------|
| F.A.P. RTE.               | SECTION    | COUNTY | TOTAL SHEETS | SHEET NO. |
| 317A                      | (43-BR) BR | FULTON | 263          | 191       |
| CONTRACT NO. 68D34        |            |        |              |           |
| ILLINOIS FED. AID PROJECT |            |        |              |           |

|               |  |
|---------------|--|
| DATE          |  |
| BY            |  |
| SURVEY        |  |
| PLOTTED       |  |
| TEMPLATE      |  |
| AREAS CHECKED |  |
| NO.           |  |

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| DATE          |  |
| BY            |  |
| SURVEY        |  |
| PLOTTED       |  |
| TEMPLATE      |  |
| AREAS CHECKED |  |
| NO.           |  |



UNLESS ELEVATIONS ARE SHOWN, ALL UTILITY LOCATIONS SHOWN ARE BASED ON THE APPROXIMATE DEPTH SUPPLIED BY THE UTILITY CO. AND SHOULD BE FIELD VERIFIED BY THE CONTRACTOR



|                             |                 |           |
|-----------------------------|-----------------|-----------|
| USER NAME = MWEA            | DESIGNED - KMC  | REVISED - |
|                             | DRAWN - KRS     | REVISED - |
| PLOT SCALE = 20.0000' / ft. | CHECKED - RDC   | REVISED - |
| PLOT DATE = 3/18/2021       | DATE - 03/17/21 | REVISED - |

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

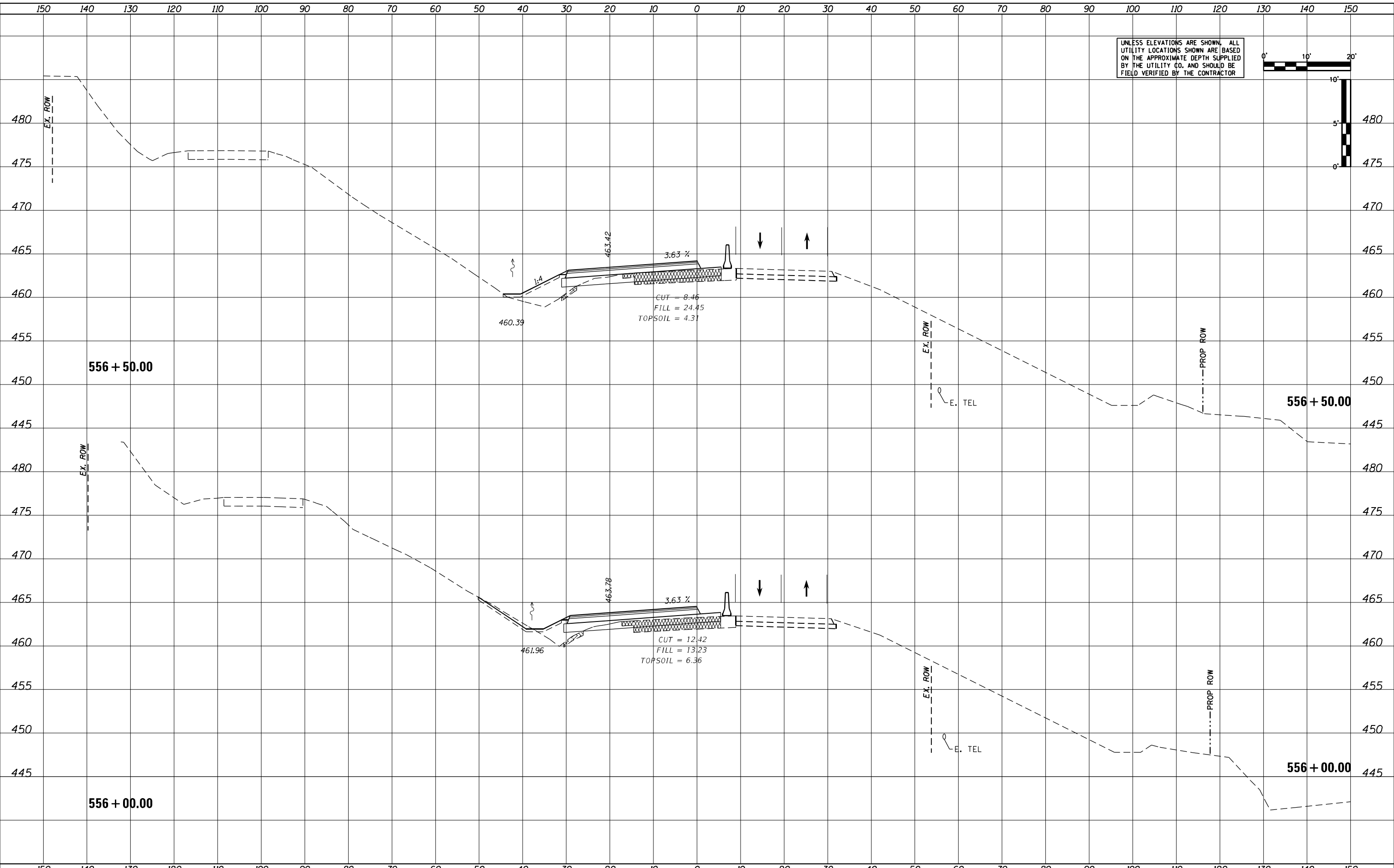
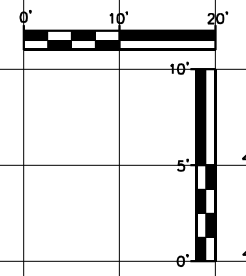
|                        |                   |                 |           |
|------------------------|-------------------|-----------------|-----------|
| US24 - IL9             |                   | SCALE: AS SHOWN |           |
| STAGE 1 CROSS SECTIONS |                   | SHEET           | OF SHEETS |
| STA. 555+00.00         | TO STA. 555+50.00 |                 |           |

|                    |            |                  |              |           |
|--------------------|------------|------------------|--------------|-----------|
| F.A.P. RTE.        | SECTION    | COUNTY           | TOTAL SHEETS | SHEET NO. |
| 317A               | (43-BR) BR | FULTON           | 263          | 192       |
| CONTRACT NO. 68D34 |            |                  |              |           |
| ILLINOIS           |            | FED. AID PROJECT |              |           |

|               |  |
|---------------|--|
| DATE          |  |
| BY            |  |
| REVISIONS     |  |
| SURVEY        |  |
| PLOTTED       |  |
| TEMPLATE      |  |
| NOTE BOOK     |  |
| AREAS CHECKED |  |
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| BY            |  |
| REVISIONS     |  |
| SURVEY        |  |
| PLOTTED       |  |
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| NOTE BOOK     |  |
| AREAS CHECKED |  |
| NO.           |  |

UNLESS ELEVATIONS ARE SHOWN, ALL UTILITY LOCATIONS SHOWN ARE BASED ON THE APPROXIMATE DEPTH SUPPLIED BY THE UTILITY CO. AND SHOULD BE FIELD VERIFIED BY THE CONTRACTOR



|              |                |            |          |           |  |
|--------------|----------------|------------|----------|-----------|--|
| USER NAME =  | MWEA           | DESIGNED - | KMC      | REVISED - |  |
|              |                | DRAWN -    | KRS      | REVISED - |  |
| PLOT SCALE = | 20.0000' / ft. | CHECKED -  | RDC      | REVISED - |  |
| PLOT DATE =  | 3/18/2021      | DATE -     | 03/17/21 | REVISED - |  |

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**US24 - IL9  
STAGE 1 CROSS SECTIONS**

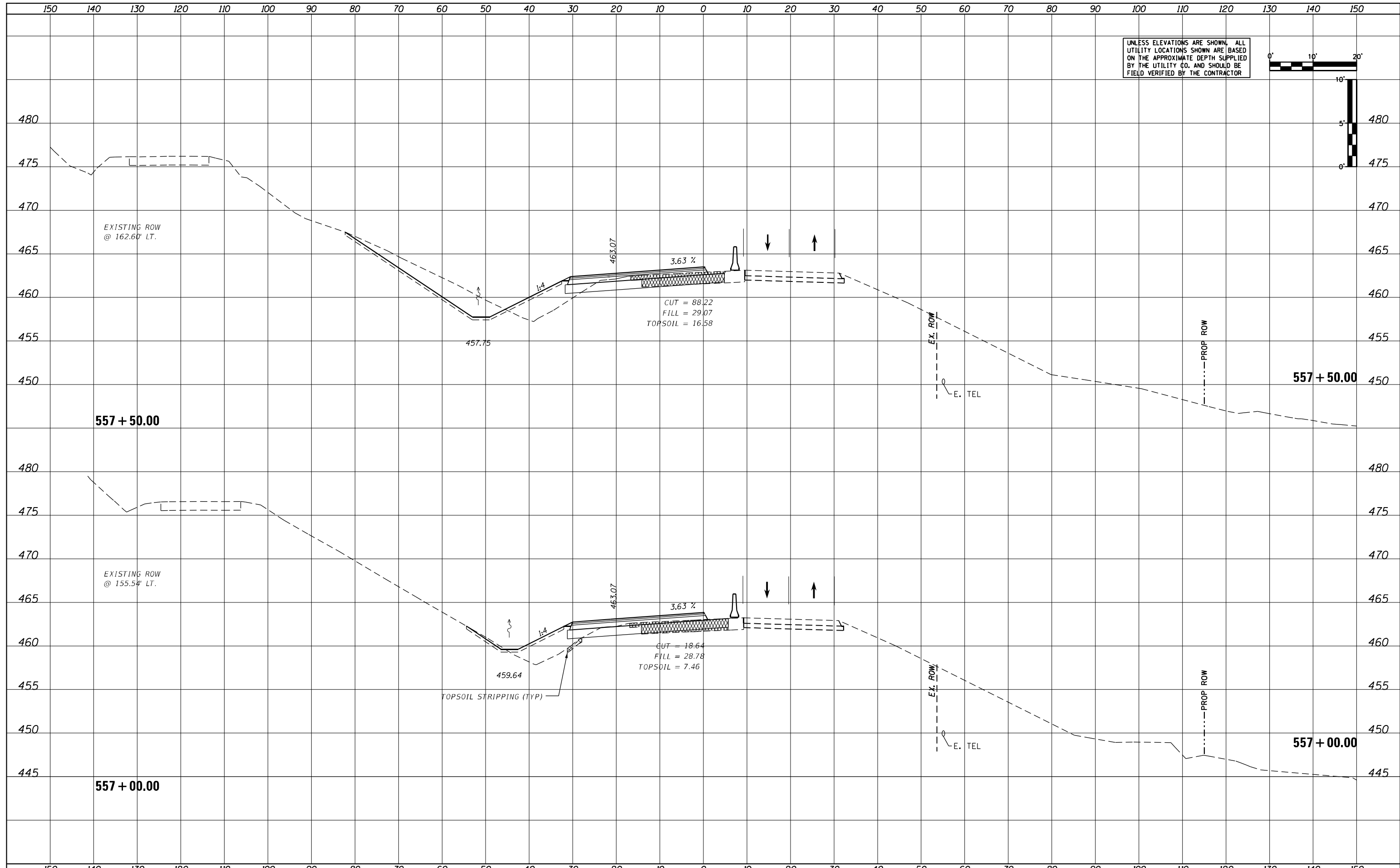
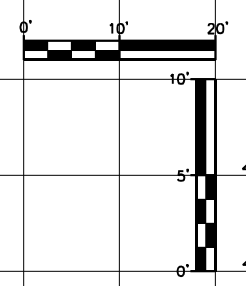
SCALE: AS SHOWN    SHEET    OF    SHEETS    STA. 556+00.00    TO STA. 556+50.00

|                           |            |        |              |           |
|---------------------------|------------|--------|--------------|-----------|
| F.A.P. RTE.               | SECTION    | COUNTY | TOTAL SHEETS | SHEET NO. |
| 317A                      | (43-BR) BR | FULTON | 263          | 193       |
| CONTRACT NO. 68D34        |            |        |              |           |
| ILLINOIS FED. AID PROJECT |            |        |              |           |

|               |  |
|---------------|--|
| DATE          |  |
| BY            |  |
| SURVEY        |  |
| PLOTTED       |  |
| TEMPLATE      |  |
| AREAS         |  |
| AREAS CHECKED |  |
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| DATE          |  |
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| SURVEY        |  |
| PLOTTED       |  |
| TEMPLATE      |  |
| AREAS         |  |
| AREAS CHECKED |  |
| NO.           |  |

UNLESS ELEVATIONS ARE SHOWN, ALL UTILITY LOCATIONS SHOWN ARE BASED ON THE APPROXIMATE DEPTH SUPPLIED BY THE UTILITY CO. AND SHOULD BE FIELD VERIFIED BY THE CONTRACTOR



|                            |                 |           |
|----------------------------|-----------------|-----------|
| USER NAME = MWEA           | DESIGNED - KMC  | REVISED - |
|                            | DRAWN - KRS     | REVISED - |
| PLOT SCALE = 20,000' / in. | CHECKED - RDC   | REVISED - |
| PLOT DATE = 3/18/2021      | DATE - 03/17/21 | REVISED - |

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**US24 - IL9  
STAGE 1 CROSS SECTIONS**

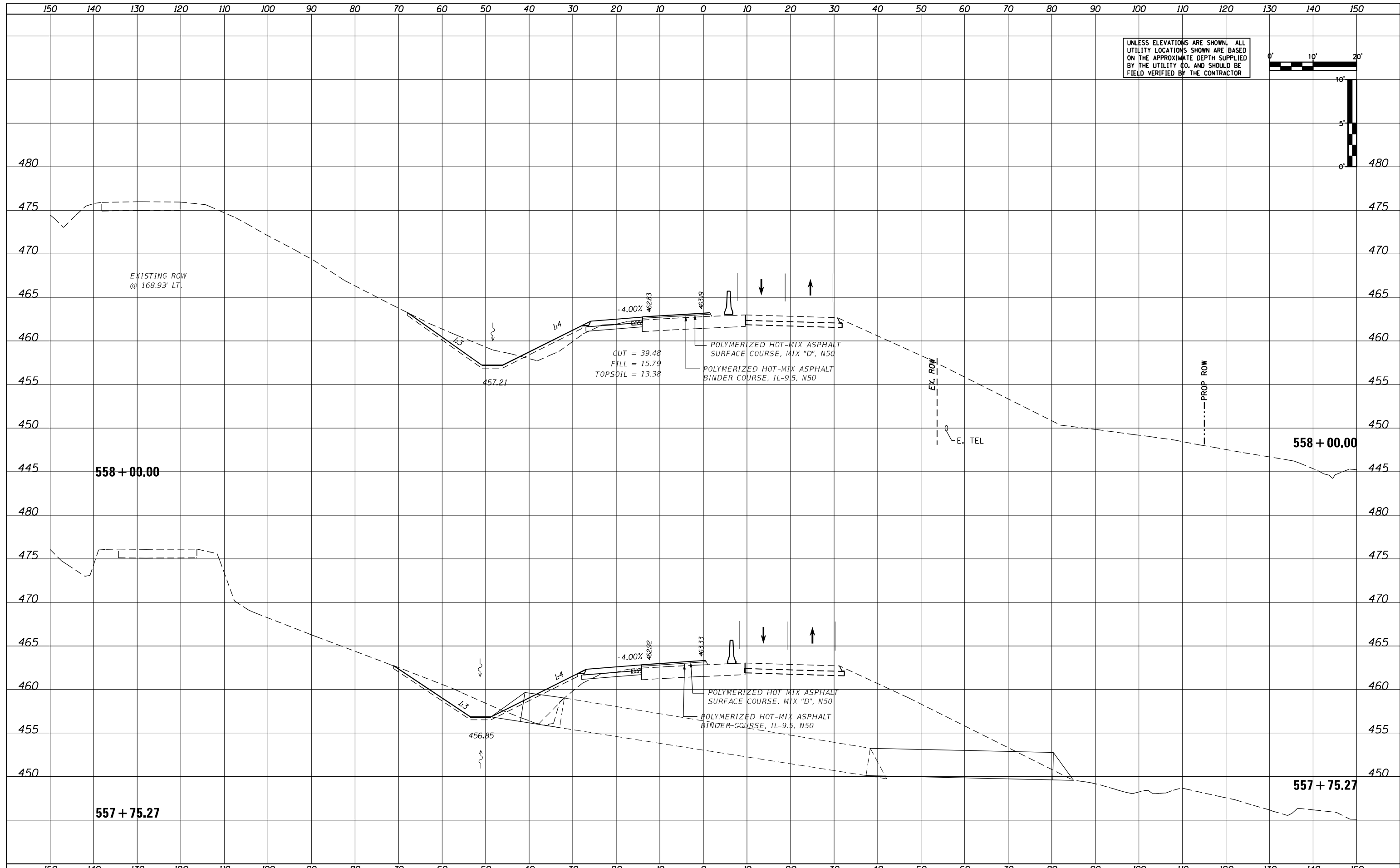
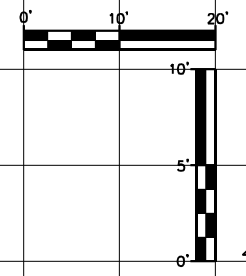
SCALE: AS SHOWN    SHEET    OF    SHEETS    STA. 557+00.00    TO STA. 557+50.00

|                           |            |        |              |           |
|---------------------------|------------|--------|--------------|-----------|
| F.A.P. RTE.               | SECTION    | COUNTY | TOTAL SHEETS | SHEET NO. |
| 317A                      | (43-BR) BR | FULTON | 263          | 194       |
| CONTRACT NO. 68D34        |            |        |              |           |
| ILLINOIS FED. AID PROJECT |            |        |              |           |

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| DATE          |  |
| BY            |  |
| SURVEY        |  |
| PLOTTED       |  |
| TEMPLATE      |  |
| AREAS         |  |
| AREAS CHECKED |  |
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| DATE          |  |
| BY            |  |
| SURVEY        |  |
| PLOTTED       |  |
| TEMPLATE      |  |
| AREAS         |  |
| AREAS CHECKED |  |
| NO.           |  |

UNLESS ELEVATIONS ARE SHOWN, ALL UTILITY LOCATIONS SHOWN ARE BASED ON THE APPROXIMATE DEPTH SUPPLIED BY THE UTILITY CO. AND SHOULD BE FIELD VERIFIED BY THE CONTRACTOR



STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

US24 - IL9  
STAGE 1 CROSS SECTIONS

|                           |                 |           |
|---------------------------|-----------------|-----------|
| USER NAME = MWEA          | DESIGNED - KMC  | REVISED - |
| PLOT SCALE = 20,000' / 1" | DRAWN - KRS     | REVISED - |
| PLOT DATE = 3/18/2021     | CHECKED - RDC   | REVISED - |
|                           | DATE - 03/17/21 | REVISED - |

|                 |                 |                                  |
|-----------------|-----------------|----------------------------------|
| SCALE: AS SHOWN | SHEET OF SHEETS | STA. 557+75.27 TO STA. 558+00.00 |
|-----------------|-----------------|----------------------------------|

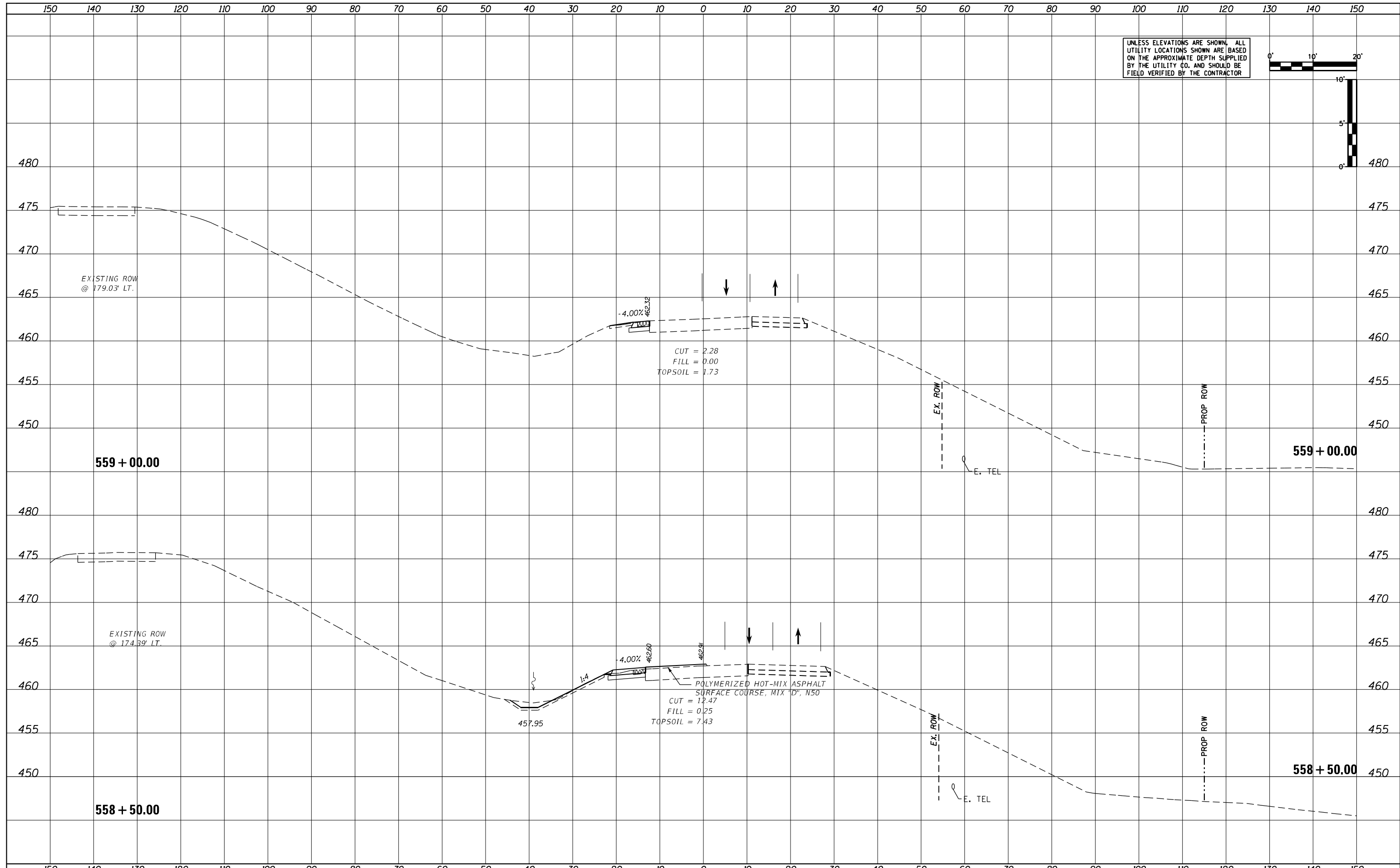
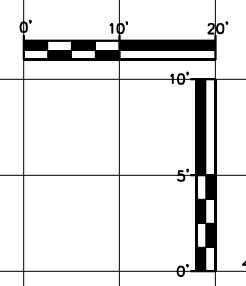
|                           |                    |               |                  |               |
|---------------------------|--------------------|---------------|------------------|---------------|
| F.A.P. RTE. 317A          | SECTION (43-BR) BR | COUNTY FULTON | TOTAL SHEETS 263 | SHEET NO. 196 |
| CONTRACT NO. 68D34        |                    |               |                  |               |
| ILLINOIS FED. AID PROJECT |                    |               |                  |               |



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| DATE          |  |
| BY            |  |
| SURVEY        |  |
| PLOTTED       |  |
| TEMPLATE      |  |
| NOTE BOOK     |  |
| AREAS CHECKED |  |
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| AREAS CHECKED |  |
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UNLESS ELEVATIONS ARE SHOWN, ALL UTILITY LOCATIONS SHOWN ARE BASED ON THE APPROXIMATE DEPTH SUPPLIED BY THE UTILITY CO. AND SHOULD BE FIELD VERIFIED BY THE CONTRACTOR



|                             |                 |           |
|-----------------------------|-----------------|-----------|
| USER NAME = MWEA            | DESIGNED - KMC  | REVISED - |
|                             | DRAWN - KRS     | REVISED - |
| PLOT SCALE = 20.0000' / ft. | CHECKED - RDC   | REVISED - |
| PLOT DATE = 3/18/2021       | DATE - 03/17/21 | REVISED - |

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

US24 - IL9  
STAGE 1 CROSS SECTIONS

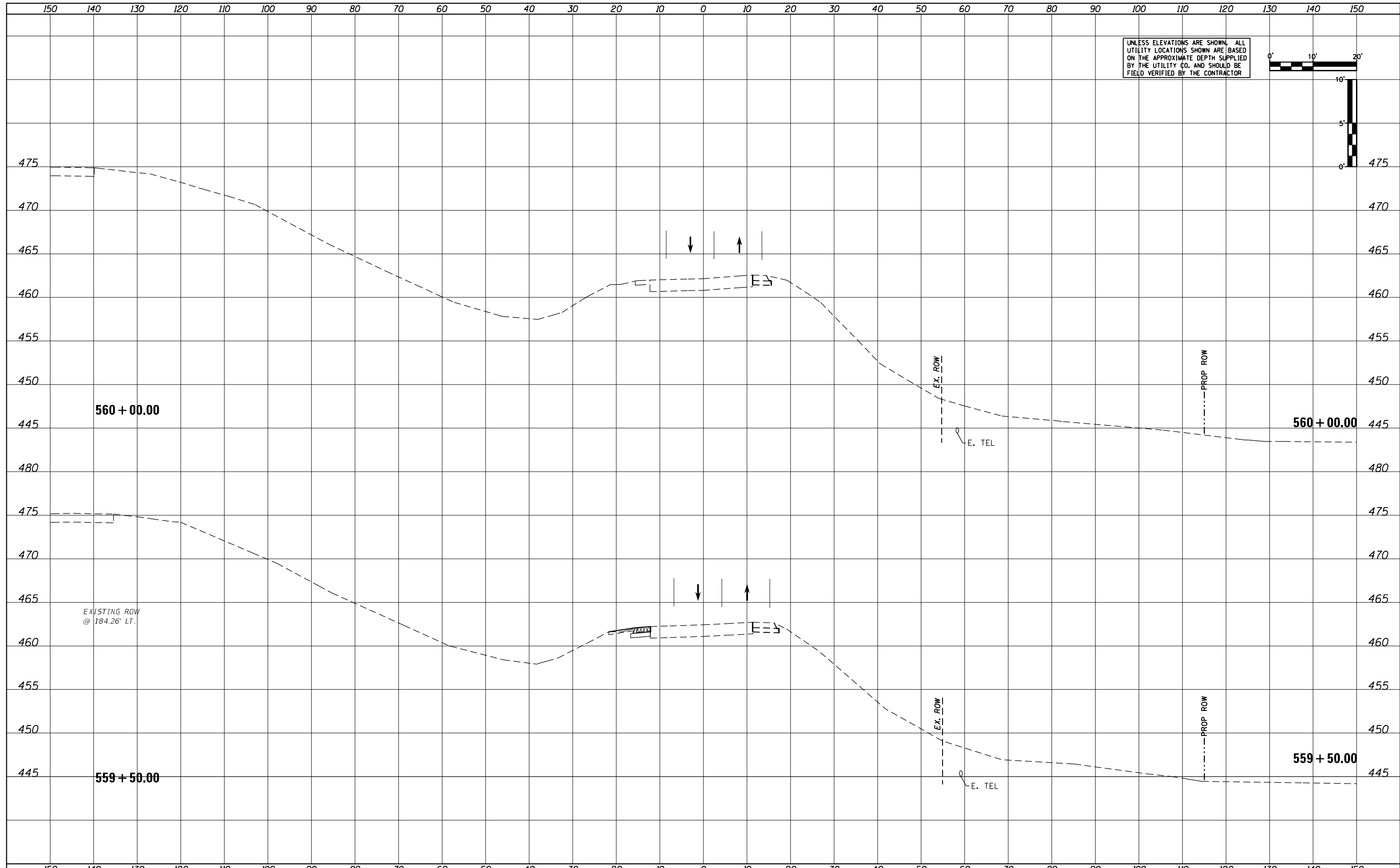
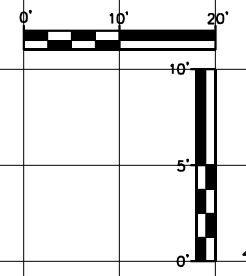
SCALE: AS SHOWN SHEET OF SHEETS STA. 558+50.00 TO STA. 559+00.00

|                           |            |        |              |           |
|---------------------------|------------|--------|--------------|-----------|
| F.A.P. RTE.               | SECTION    | COUNTY | TOTAL SHEETS | SHEET NO. |
| 317A                      | (43-BR) BR | FULTON | 263          | 196       |
| CONTRACT NO. 68D34        |            |        |              |           |
| ILLINOIS FED. AID PROJECT |            |        |              |           |

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| DATE   |  |
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UNLESS ELEVATIONS ARE SHOWN, ALL UTILITY LOCATIONS SHOWN ARE BASED ON THE APPROXIMATE DEPTH SUPPLIED BY THE UTILITY CO. AND SHOULD BE FIELD VERIFIED BY THE CONTRACTOR



|                             |                 |           |
|-----------------------------|-----------------|-----------|
| USER NAME = MWEA            | DESIGNED - KMC  | REVISED - |
|                             | DRAWN - KRS     | REVISED - |
| PLOT SCALE = 20.0000' / ft. | CHECKED - RDC   | REVISED - |
| PLOT DATE = 3/18/2021       | DATE - 03/17/21 | REVISED - |

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**US24 - IL9  
STAGE 1 CROSS SECTIONS**

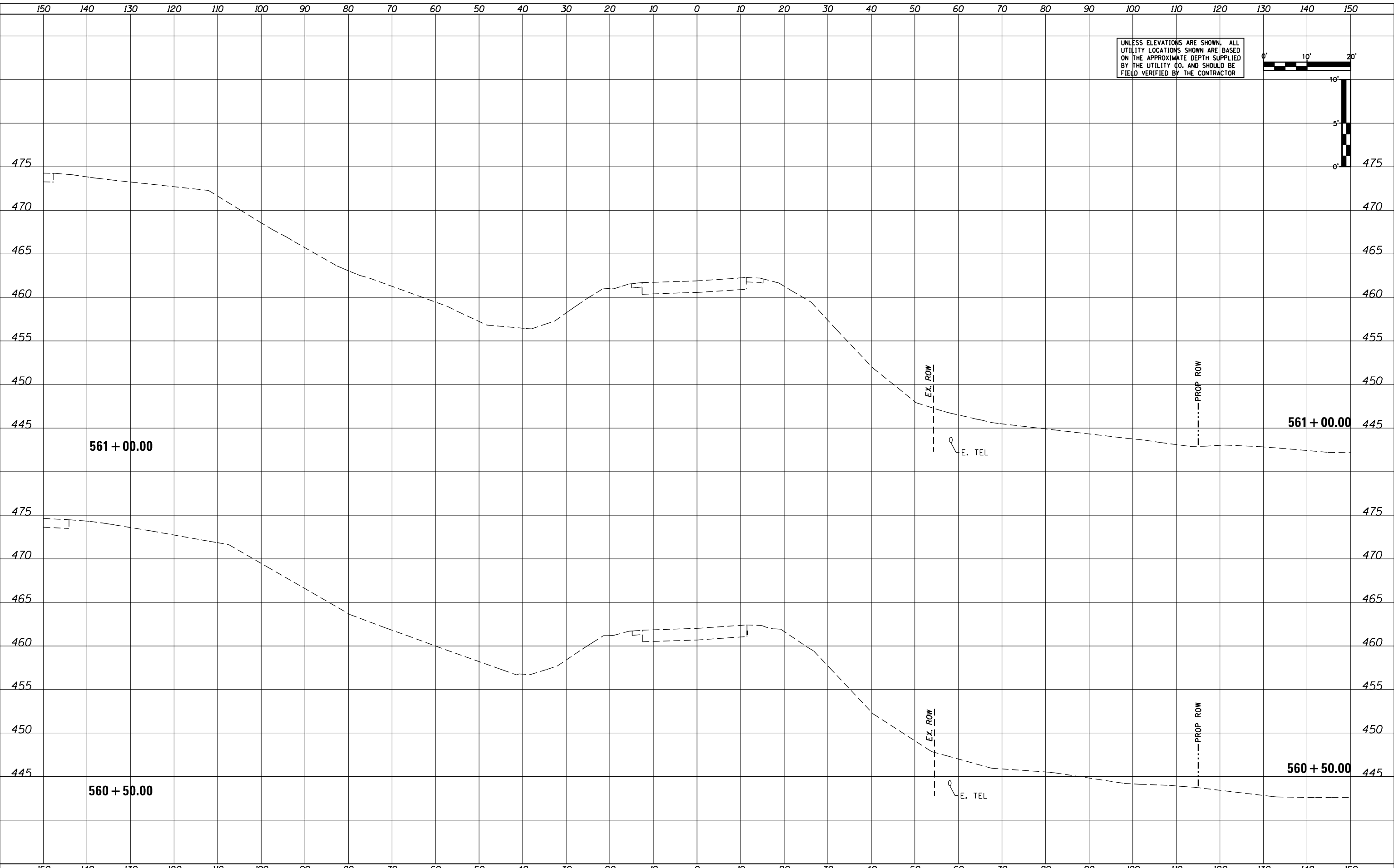
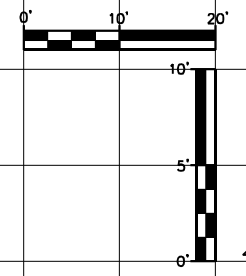
SCALE: AS SHOWN    SHEET    OF    SHEETS    STA. 559+50.00    TO STA. 560+00.00

|                           |            |        |              |           |
|---------------------------|------------|--------|--------------|-----------|
| F.A.P. RTE.               | SECTION    | COUNTY | TOTAL SHEETS | SHEET NO. |
| 317A                      | (43-BR) BR | FULTON | 263          | 197       |
| CONTRACT NO. 68D34        |            |        |              |           |
| ILLINOIS FED. AID PROJECT |            |        |              |           |

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| DATE          |  |
| BY            |  |
| SURVEY        |  |
| SPANNED       |  |
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| TEMPLATE      |  |
| AREAS         |  |
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| AREAS CHECKED |  |
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UNLESS ELEVATIONS ARE SHOWN, ALL UTILITY LOCATIONS SHOWN ARE BASED ON THE APPROXIMATE DEPTH SUPPLIED BY THE UTILITY CO. AND SHOULD BE FIELD VERIFIED BY THE CONTRACTOR



|                             |                 |           |
|-----------------------------|-----------------|-----------|
| USER NAME = MWEA            | DESIGNED - KMC  | REVISED - |
| PLOT SCALE = 20.0000' / ft. | DRAWN - KRS     | REVISED - |
| PLOT DATE = 3/18/2021       | CHECKED - RDC   | REVISED - |
|                             | DATE - 03/17/21 | REVISED - |

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**US24 - IL9  
STAGE 1 CROSS SECTIONS**

SCALE: AS SHOWN    SHEET    OF    SHEETS    STA. 560+50.00    TO STA. 561+00.00

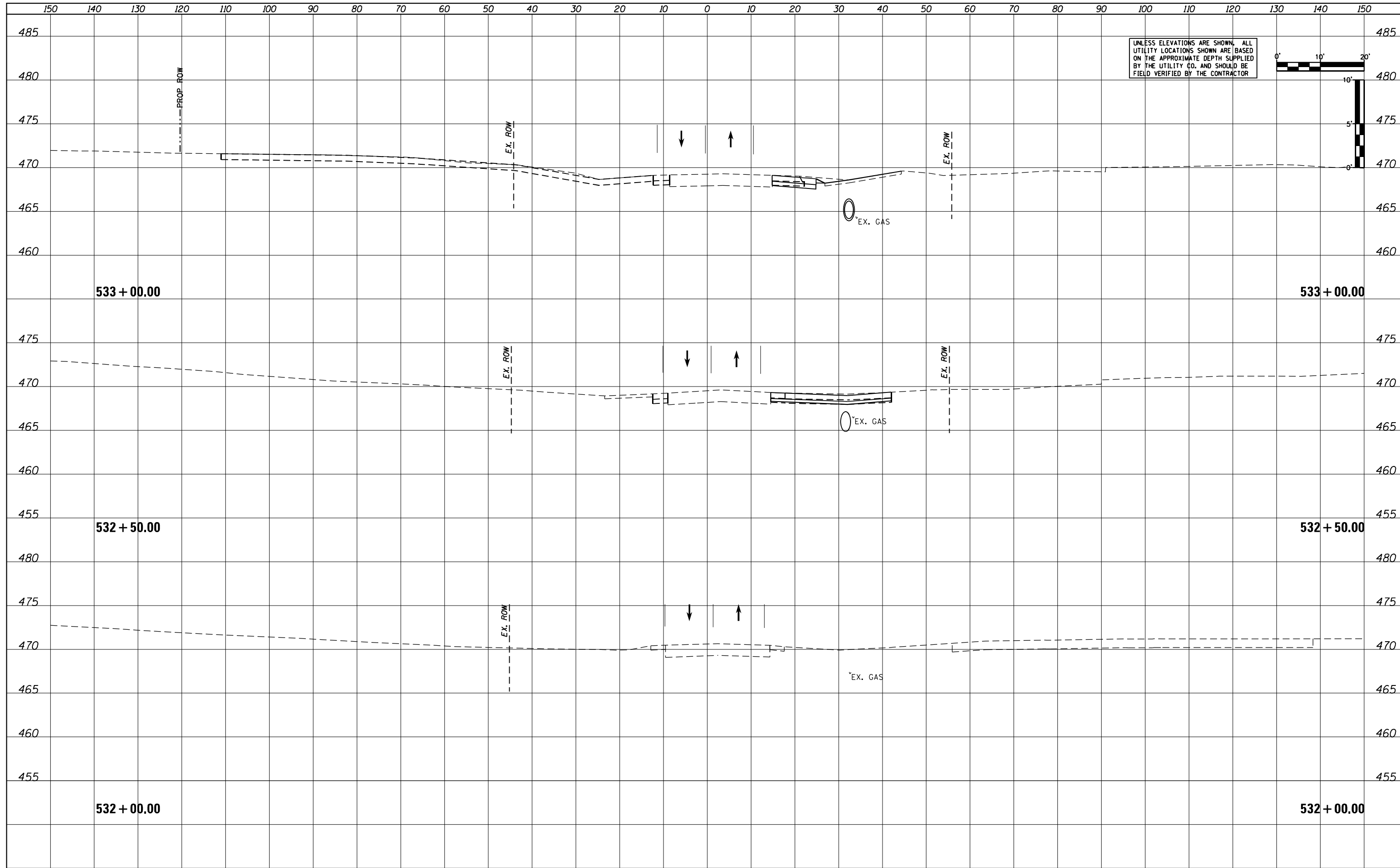
|                    |            |        |              |           |
|--------------------|------------|--------|--------------|-----------|
| F.A.P. RTE.        | SECTION    | COUNTY | TOTAL SHEETS | SHEET NO. |
| 317A               | (43-BR) BR | FULTON | 263          | 198       |
| CONTRACT NO. 68D34 |            |        |              |           |

ILLINOIS FED. AID PROJECT



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| DATE          |  |
| BY            |  |
| SURVEY        |  |
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| DATE          |  |
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| AREAS CHECKED |  |
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|-----------------------------|-----------------|-----------|
| USER NAME = MWEA            | DESIGNED - KMC  | REVISED - |
|                             | DRAWN - KRS     | REVISED - |
| PLOT SCALE = 20.0000' / ft. | CHECKED - RDC   | REVISED - |
| PLOT DATE = 3/18/2021       | DATE - 03/17/21 | REVISED - |

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**US24 - IL9  
STAGE 2 CROSS SECTIONS**

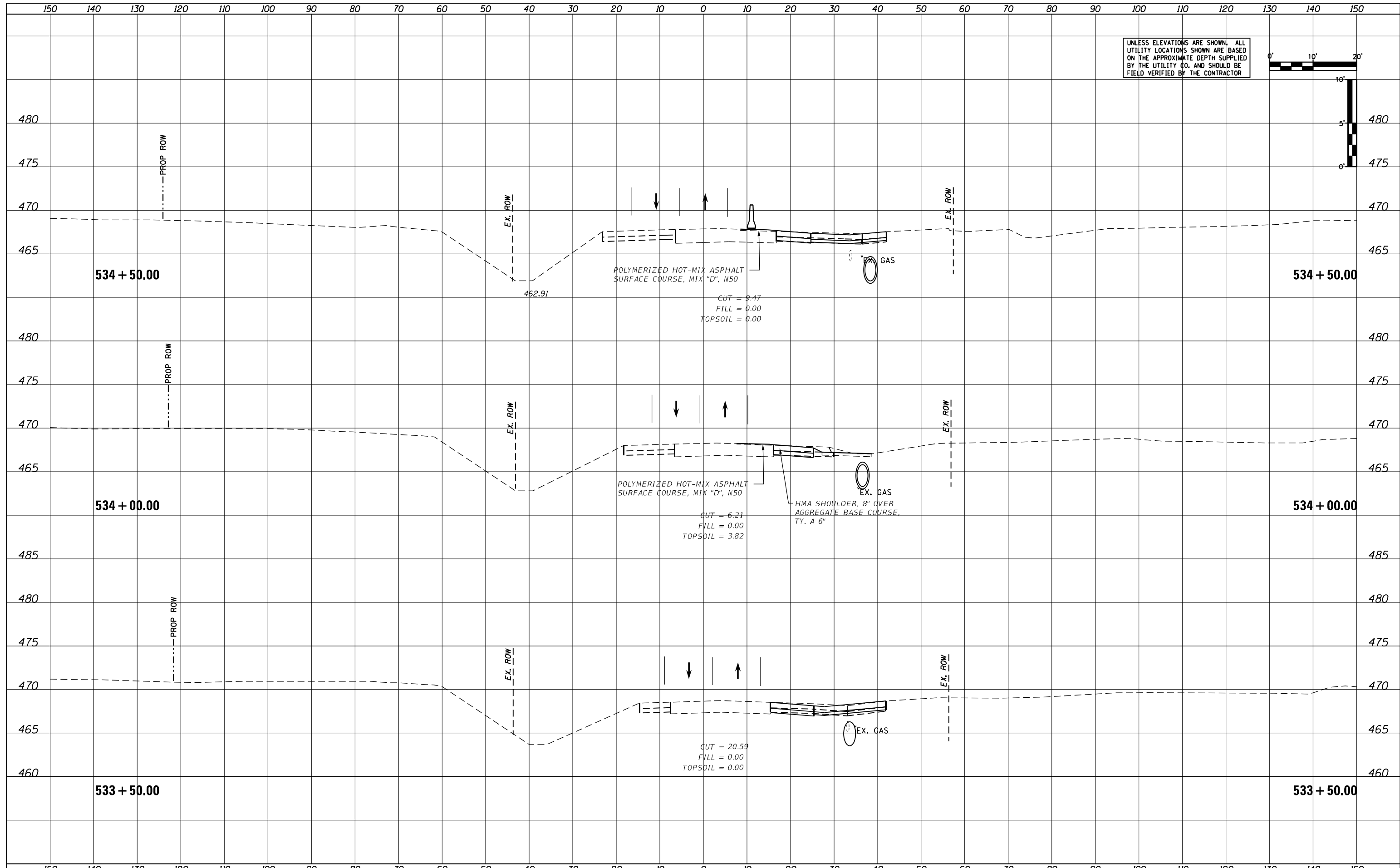
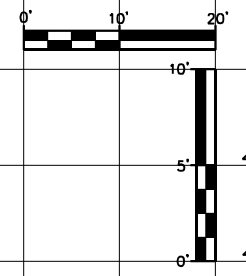
SCALE: AS SHOWN    SHEET    OF    SHEETS    STA. 532+00.00    TO STA. 533+00.00

| F.A.P. RTE.                  | SECTION    | COUNTY | TOTAL SHEETS | SHEET NO. |
|------------------------------|------------|--------|--------------|-----------|
| 317A                         | (43-BR) BR | FULTON | 263          | 199       |
| CONTRACT NO. 68D34           |            |        |              |           |
| ILLINOIS    FED. AID PROJECT |            |        |              |           |

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| DATE          |  |
| BY            |  |
| REVISED       |  |
| PLOTTED       |  |
| TEMPLATE      |  |
| AREAS         |  |
| AREAS CHECKED |  |
| NO.           |  |

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| DATE          |  |
| BY            |  |
| REVISED       |  |
| PLOTTED       |  |
| TEMPLATE      |  |
| AREAS         |  |
| AREAS CHECKED |  |
| NO.           |  |

UNLESS ELEVATIONS ARE SHOWN, ALL UTILITY LOCATIONS SHOWN ARE BASED ON THE APPROXIMATE DEPTH SUPPLIED BY THE UTILITY CO. AND SHOULD BE FIELD VERIFIED BY THE CONTRACTOR



|                             |                 |           |
|-----------------------------|-----------------|-----------|
| USER NAME = MWEA            | DESIGNED - KMC  | REVISED - |
|                             | DRAWN - KRS     | REVISED - |
| PLOT SCALE = 20.0000' / ft. | CHECKED - RDC   | REVISED - |
| PLOT DATE = 3/18/2021       | DATE - 03/17/21 | REVISED - |

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

US24 - IL9  
STAGE 2 CROSS SECTIONS

SCALE: AS SHOWN SHEET OF SHEETS STA. 533+50.00 TO STA. 534+50.00

|                           |            |        |              |           |
|---------------------------|------------|--------|--------------|-----------|
| F.A.P. RTE.               | SECTION    | COUNTY | TOTAL SHEETS | SHEET NO. |
| 317A                      | (43-BR) BR | FULTON | 263          | 200       |
| CONTRACT NO. 68D34        |            |        |              |           |
| ILLINOIS FED. AID PROJECT |            |        |              |           |