



3.0" RADIUS, 0.5" BORDER, WHITE ON GREEN; REFLECTORIZED
 "DRIVEWAY" D; "ENTRANCE" D; STANDARD ARROW CUSTOM 12.0" x 5.0"

NOTES:

1. HALF OF THE SIGNS WILL REQUIRE A LEFT HAND FACING ARROW.
2. TWO SIGNS SHALL BE USED AT EACH COMMERCIAL ENTRANCE PLACED BACK-TO-BACK; ONE WITH A RIGHT HAND ARROW (SHOWN) SHALL BE PLACED ON THE NEAR RIGHT SIDE THE DRIVEWAY AND ONE WITH A LEFT HAND ARROW SHALL BE PLACED ON THE FAR LEFT SIDE OF THE DRIVEWAY.
3. SIGNS TO BE PAID FOR AS ITEM "TEMPORARY INFORMATION SIGNING".

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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

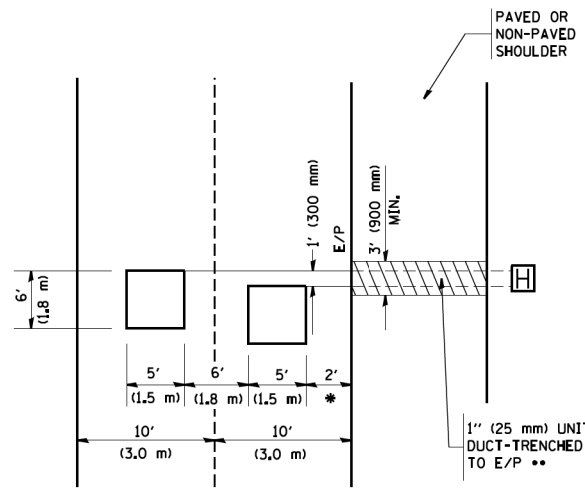
DRIVEWAY ENTRANCE SIGNING

SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2791	12-00106-00-PV	COOK	125	101
TC-26		CONTRACT NO. 61D77		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

LOOPS NEXT TO SHOULDERS

PROVIDE A PAVEMENT REPLACEMENT NOTE WHICH SHOULD EQUAL 3' (900 mm) X WIDTH OF PAVED SHOULDER.



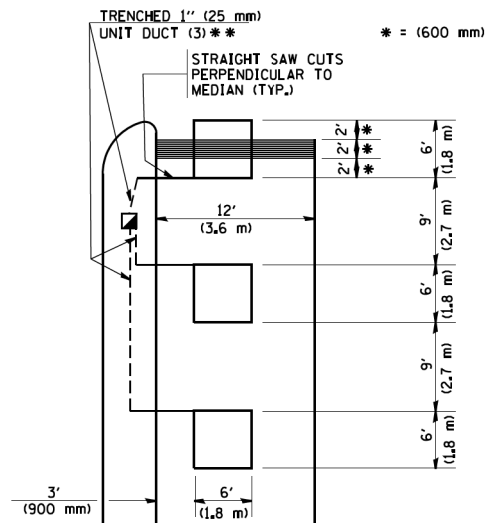
* = (600 mm)

** UNIT DUCT IS TO BE SHOWN ON PLAN SHEETS BUT SHALL NOT BE INCLUDED IN THE PAY ITEMS.

**LEFT TURN LANES WITH MEDIANS
VOLUME DENSITY ("FAR OUT" DETECTION)
ON SAME APPROACH**

(PROTECTED / PERMITTED LEFT TURN PHASING)

HANDHOLE LOCATION MAY VARY DEPENDING ON GEOMETRICS AND DESIGN OF TRAFFIC SIGNALS. HEAVY-DUTY HANDHOLES TO BE USED WHEN THE MEDIAN IS MOUNTABLE. REFER TO STANDARD 814001 TO ENSURE THAT HANDHOLE FITS IN MEDIAN.



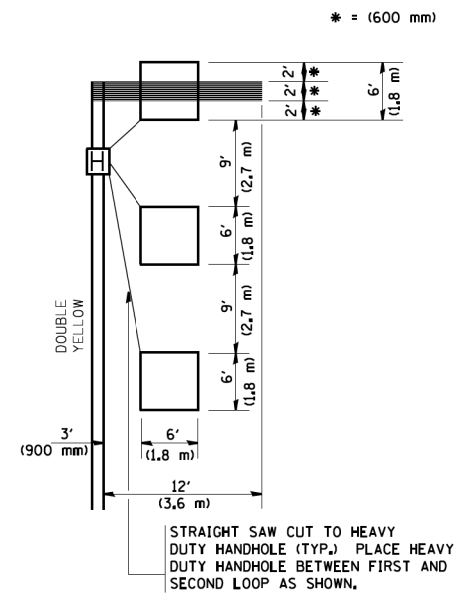
* = (600 mm)

** UNIT DUCT IS TO BE SHOWN ON PLAN SHEETS BUT SHALL NOT BE INCLUDED IN THE PAY ITEMS.

NOTE: DUAL LEFT TURNS NOT SHOWN REFER TO PLAN SHEET FOR DETECTOR LOOP REPLACEMENT

**LEFT TURN LANES WITHOUT MEDIANS
VOLUME DENSITY ("FAR OUT" DETECTION)
ON SAME APPROACH**

(PROTECTED / PERMITTED LEFT TURN PHASING)



* = (600 mm)

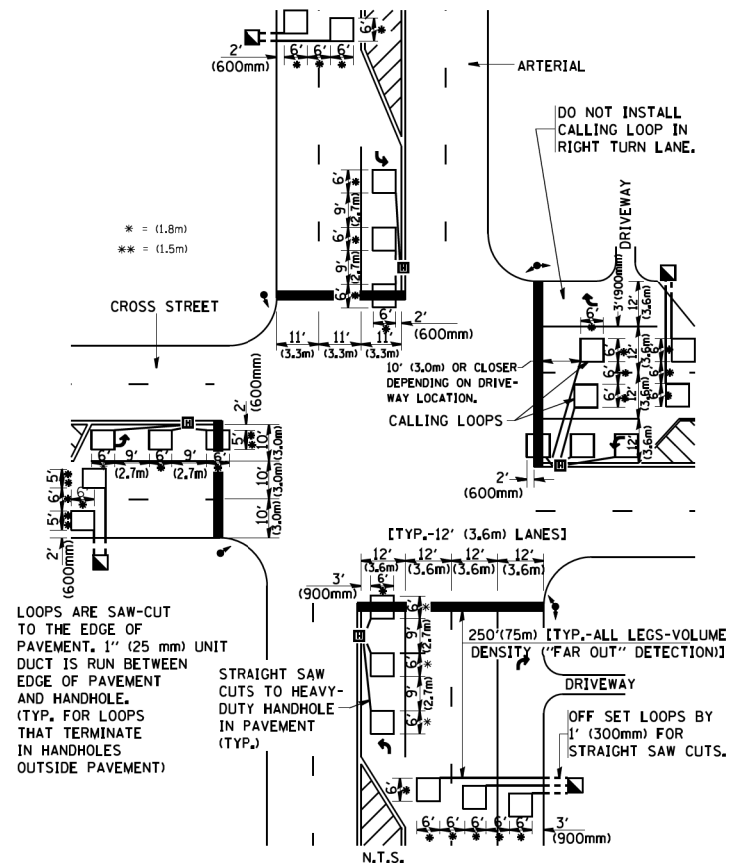
NOTE: DUAL LEFT TURNS NOT SHOWN REFER TO PLAN SHEET FOR DETECTOR LOOP REPLACEMENT

NOTES:

VEHICLES LOOP DETECTORS

- * ALL LEAD IN CABLE SHALL BE TWO CONDUCTOR NO. 14 TWISTED, SHIELDED.
- * EACH DETECTOR LOOP SHALL HAVE ITS OWN SAW CUT FROM THE LOOP TO THE EDGE OF PAVEMENT OR TO A HANDHOLE IN THE PAVEMENT.
- * EACH DETECTOR LOOP SHALL HAVE ITS OWN ONE INCH (25 mm) UNIT DUCT BETWEEN THE EDGE OF PAVEMENT AND THE FIRST HANDHOLE OR JUNCTION BOX. EACH UNIT DUCT RUN SHALL BE SHOWN ON THE PLANS BY THE DESIGNER, BUT SHALL NOT BE PAID FOR SEPARATELY. THIS ITEM IS INCIDENTAL TO THE PAY ITEM FOR DETECTOR LOOPS.
- * ONE DIMENSION OF ALL DETECTOR LOOPS SHALL BE SIX FEET (1.8 m)
- * EACH LANE OF NON-LOCKING, PRESENCE DETECTION AND EACH LANE OF A DOUBLE LEFT TURN LANE REQUIRES A SEPARATE INDUCTIVE LOOP DETECTOR AND LEAD IN CABLE.
- * WHEN NON-LOCKING, PRESENCE DETECTION IS USED, MORE THAN ONE LOOP PER LANE IS REQUIRED BEHIND THE STOP BAR (i.e. 1-1/2, 1-3/4, 2).
- * WHEN SYSTEM LOOPS ARE REQUIRED ON AN APPROACH OF AN INTERSECTION, THE LOOPS USED FOR VOLUME DENSITY AND INTERSECTION TIMING SHALL ALSO BE USED AS SYSTEM DETECTORS. EACH ONE OF THESE TYPE OF LOOPS REQUIRES A SEPARATE TWO CONDUCTOR NO. 14 TWISTED SHIELDED CABLE AND A SEPARATE INDUCTIVE LOOP DETECTOR WHEN NEW CONTROLLERS ARE UTILIZED. THE DESIGNER SHALL LABEL THESE TYPES OF LOOPS AS "INTERSECTION AND SAMPLING (SYSTEM) DETECTORS" ON THE SIGNAL LAYOUT, THE INTERCONNECT PLAN AND THE SYSTEM CABLE PLAN. WHEN AN EXISTING CONTROLLER IS UTILIZED FOR THIS TYPE OF DETECTION, THE PAY ITEM "INDUCTIVE LOOP DETECTOR WITH SYSTEM OUTPUT" SHOULD BE USED.

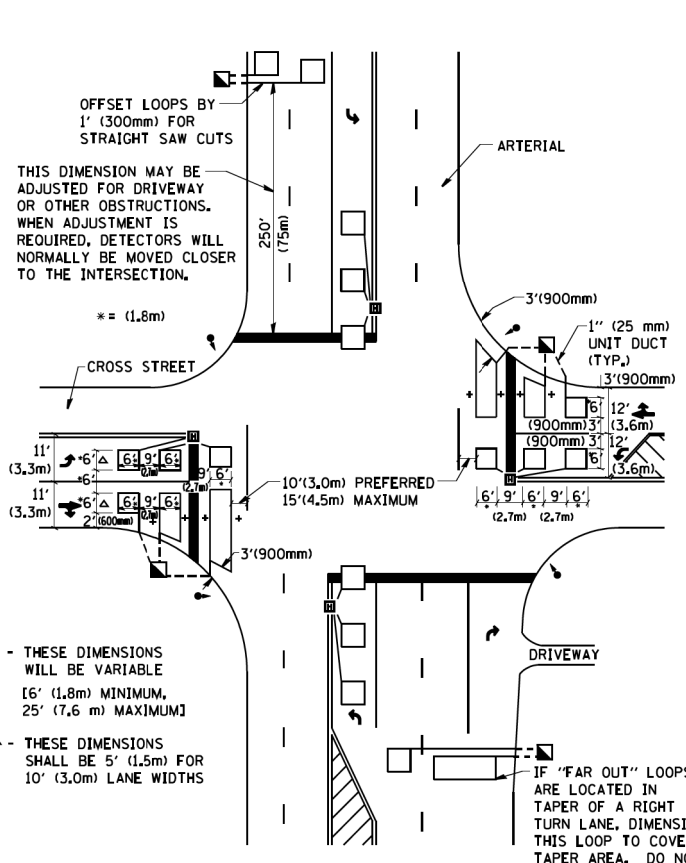
**ARTERIAL-VOLUME DENSITY ("FAR OUT" DETECTION)
CROSS STREET-VOLUME DENSITY ("FAR OUT" DETECTION)**



LOOPS ARE SAW-CUT TO THE EDGE OF PAVEMENT. 1" (25 mm) UNIT DUCT IS RUN BETWEEN EDGE OF PAVEMENT AND HANDHOLE. (TYP. FOR LOOPS THAT TERMINATE IN HANDHOLES OUTSIDE PAVEMENT)

DETAIL 1
N.T.S.

**ARTERIAL-VOLUME DENSITY ("FAR OUT" DETECTION)
CROSS STREET-NON VOLUME DENSITY ("UPTIGHT" PRESENCE DETECTION)**



* - THESE DIMENSIONS WILL BE VARIABLE [6' (1.8m) MINIMUM, 25' (7.6 m) MAXIMUM]
△ - THESE DIMENSIONS SHALL BE 5' (1.5m) FOR 10' (3.0m) LANE WIDTHS

DETAIL 2
N.T.S.

PLACEMENT OF DETECTORS

THE FOLLOWING FIGURES REPRESENT THE MOST COMMON DETECTOR LOOP LOCATIONS AND SIZES. ADJUSTMENTS WILL BE NECESSARY FOR SPECIFIC GEOMETRIC CONSIDERATIONS.

LOCATIONS AND DEMENSIONS OF DETECTOR LOOPS ARE REQUIRED ON ALL SIGNAL LAYOUT PLAN SHEETS.

"FAR OUT" DETECTION REFERS TO LOCKING, PRESENCE TYPE DETECTION LOCATED IN THRU LANES, RIGHT TURN LANES, AND RIGHT TURN LANE TAPER AREAS (IF APPLICABLE), USUALLY 250' (75 m) IN ADVANCE OF STOP BARS. "UPTIGHT" DETECTION REFERS TO NON-LOCKING PRESENCE TYPE DETECTION LOCATED IN ALL LANES AND 10'-15' (3.0 m-4.5 m) BEHIND THE CROSSING STREET'S EDGE OF PAVEMENT EXTENDED.

NOTE:

ALL DETAILS AND NOTES SHOWN ARE FROM THE I.D.O.T. DISTRICT 1 TRAFFIC SIGNAL DESIGN GUIDELINES DATED JANUARY 1995

THIS DRAWING HAS BEEN PREPARED TO ASSIST THE RESIDENT ENGINEER FOR ALL ROADWAY RESURFACING OR S.M.A.R.T. PROJECTS WHERE THE DIMENSIONS ARE NOT SHOWN ON THE PLANS AND THE FINAL LOCATIONS FOR CROSSWALKS OR STOP BARS ARE NOT DETERMINED.

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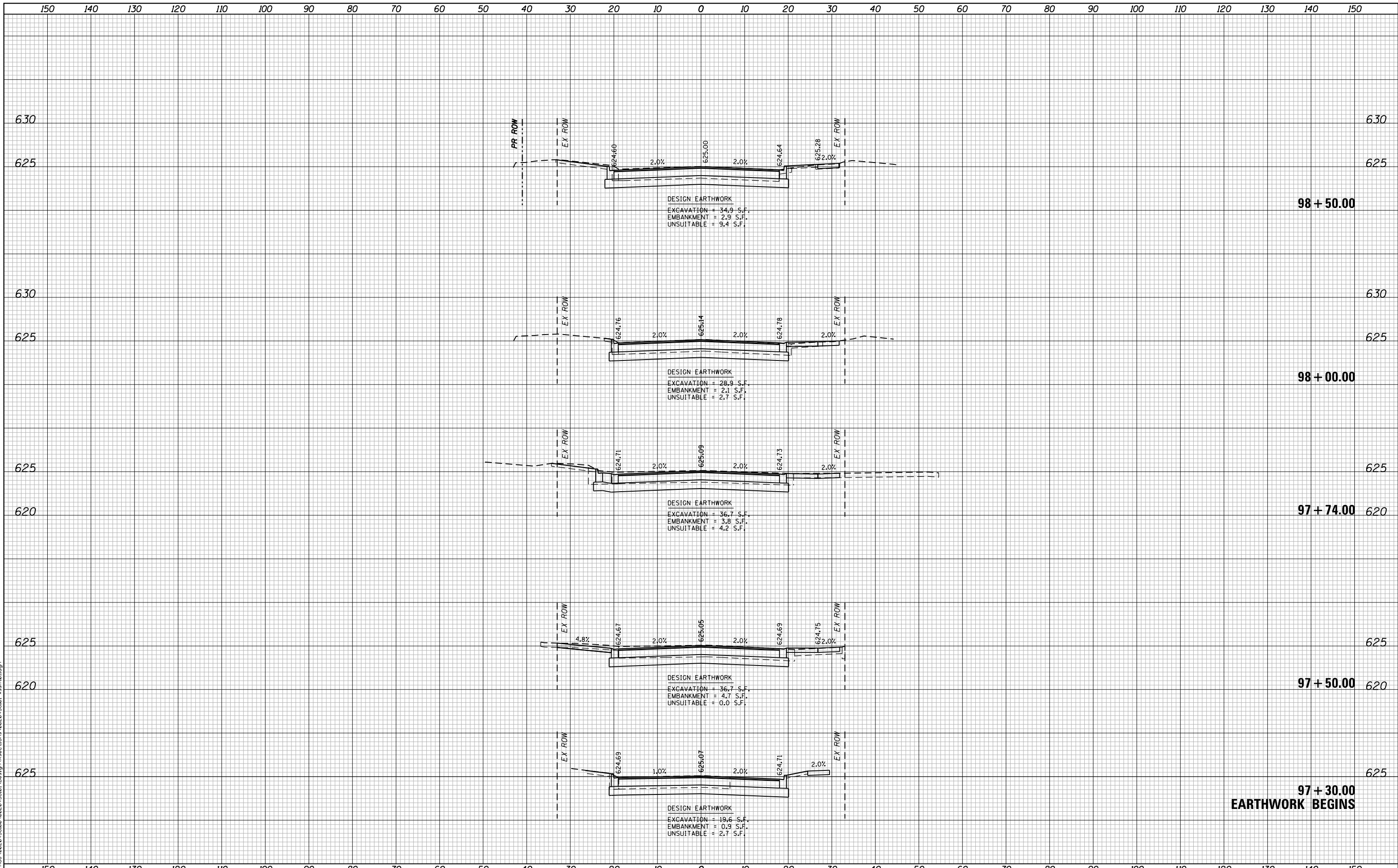
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT 1 - DETECTOR LOOP INSTALLATION	
DETAILS FOR ROADWAY RESURFACING	
SCALE: NONE	SHEET NO. 1 OF 1 SHEETS
STA.	TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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TS-07		CONTRACT NO. 61D77		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



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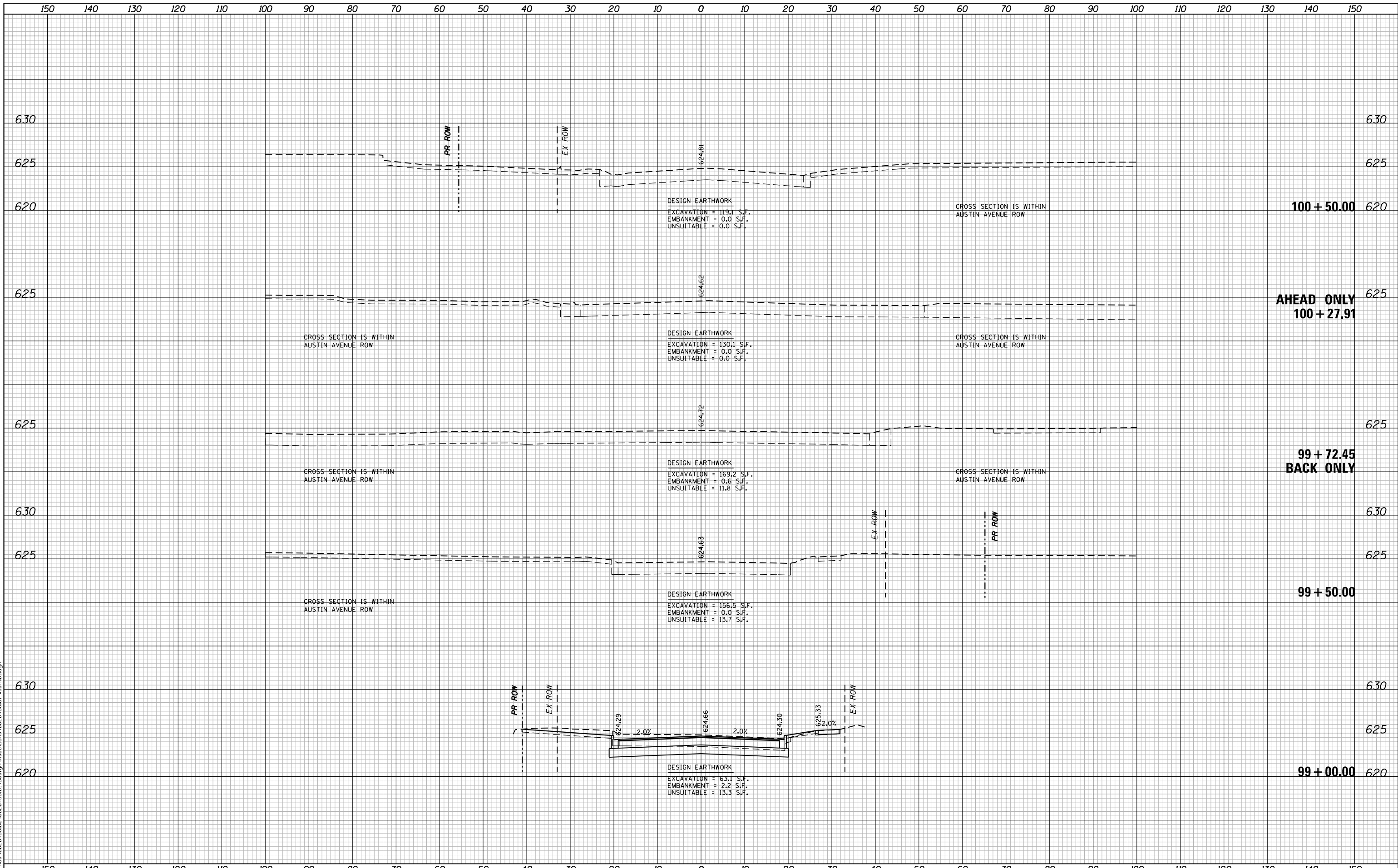
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**AUSTIN AVENUE IMPROVEMENTS
CROSS SECTIONS**

SCALE: SHEET NO. OF SHEETS STA. 97+30.00 TO STA. 98+50.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2791	12-00106-00-PV	COOK	125	103
FED. ROAD DIST. NO. - ILLINOIS FED. AID PROJECT			CONTRACT NO. 61D77	



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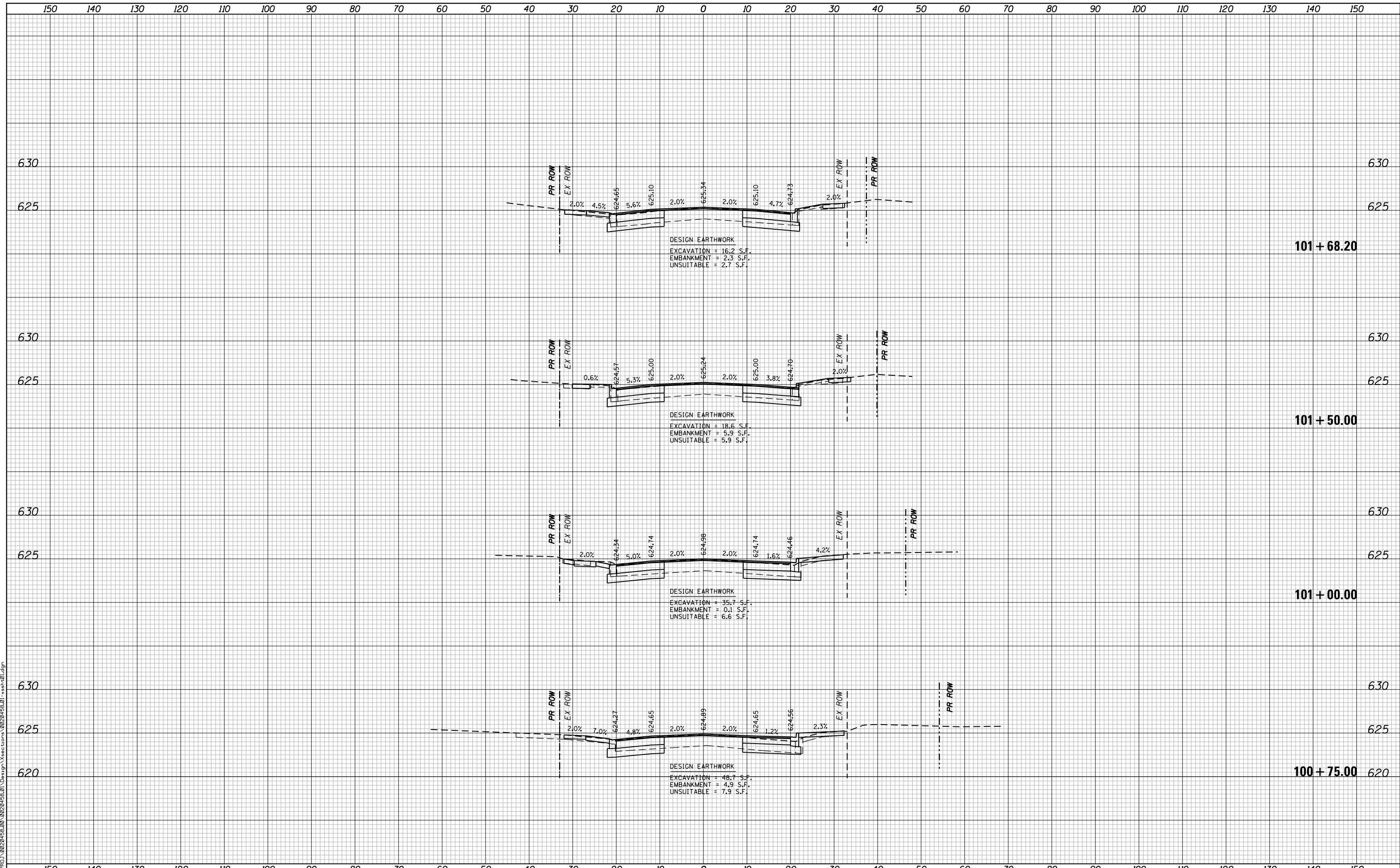
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**AUSTIN AVENUE IMPROVEMENTS
CROSS SECTIONS**

SCALE: SHEET NO. OF SHEETS STA. 99+00.00 TO STA. 100+50.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2791	12-00106-00-PV	COOK	125	104
FED. ROAD DIST. NO. - ILLINOIS FED. AID PROJECT			CONTRACT NO. 61D77	



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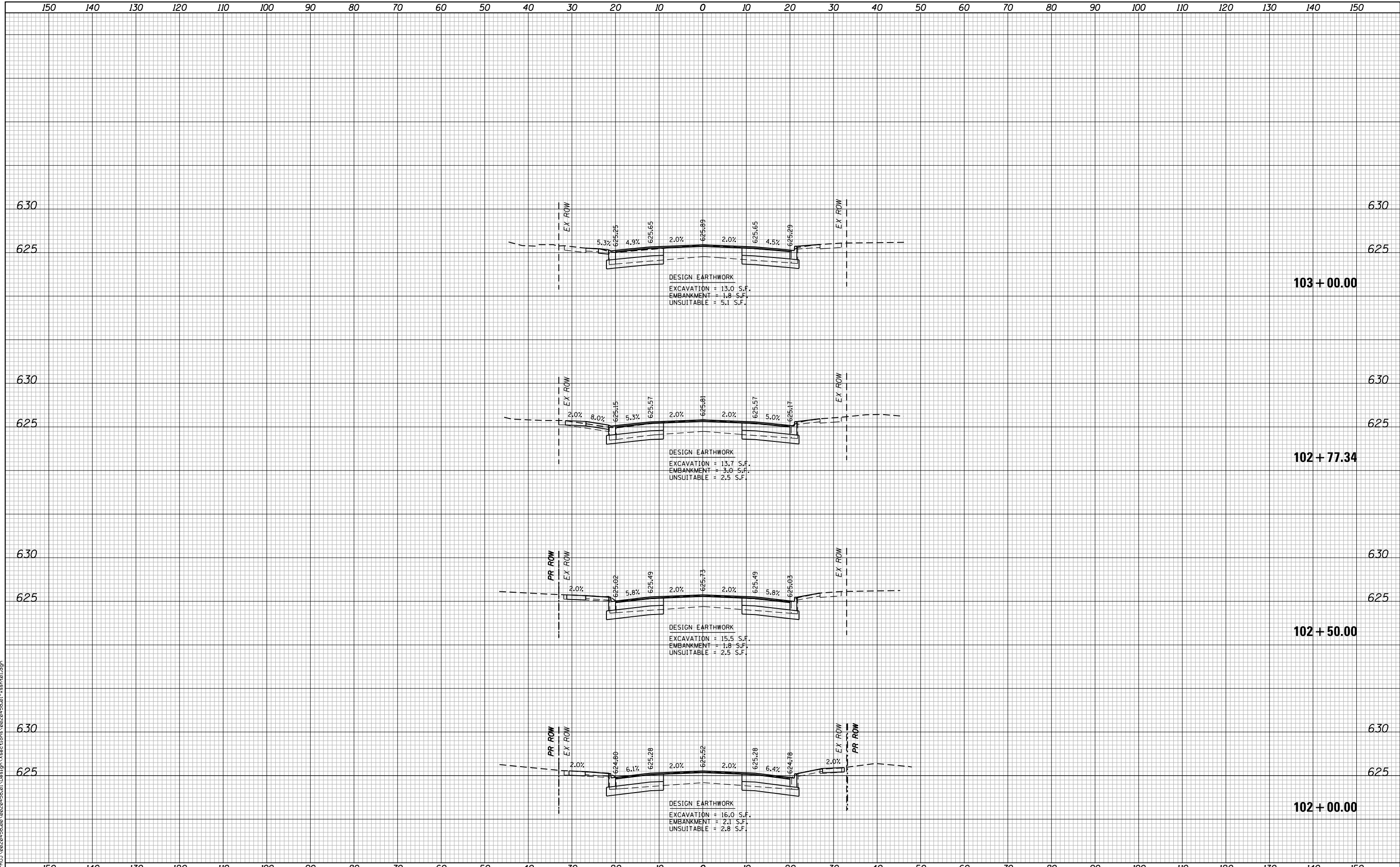
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**AUSTIN AVENUE IMPROVEMENTS
CROSS SECTIONS**

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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SCALE: SHEET NO. OF SHEETS STA. 100+75.00 TO STA. 101+68.20



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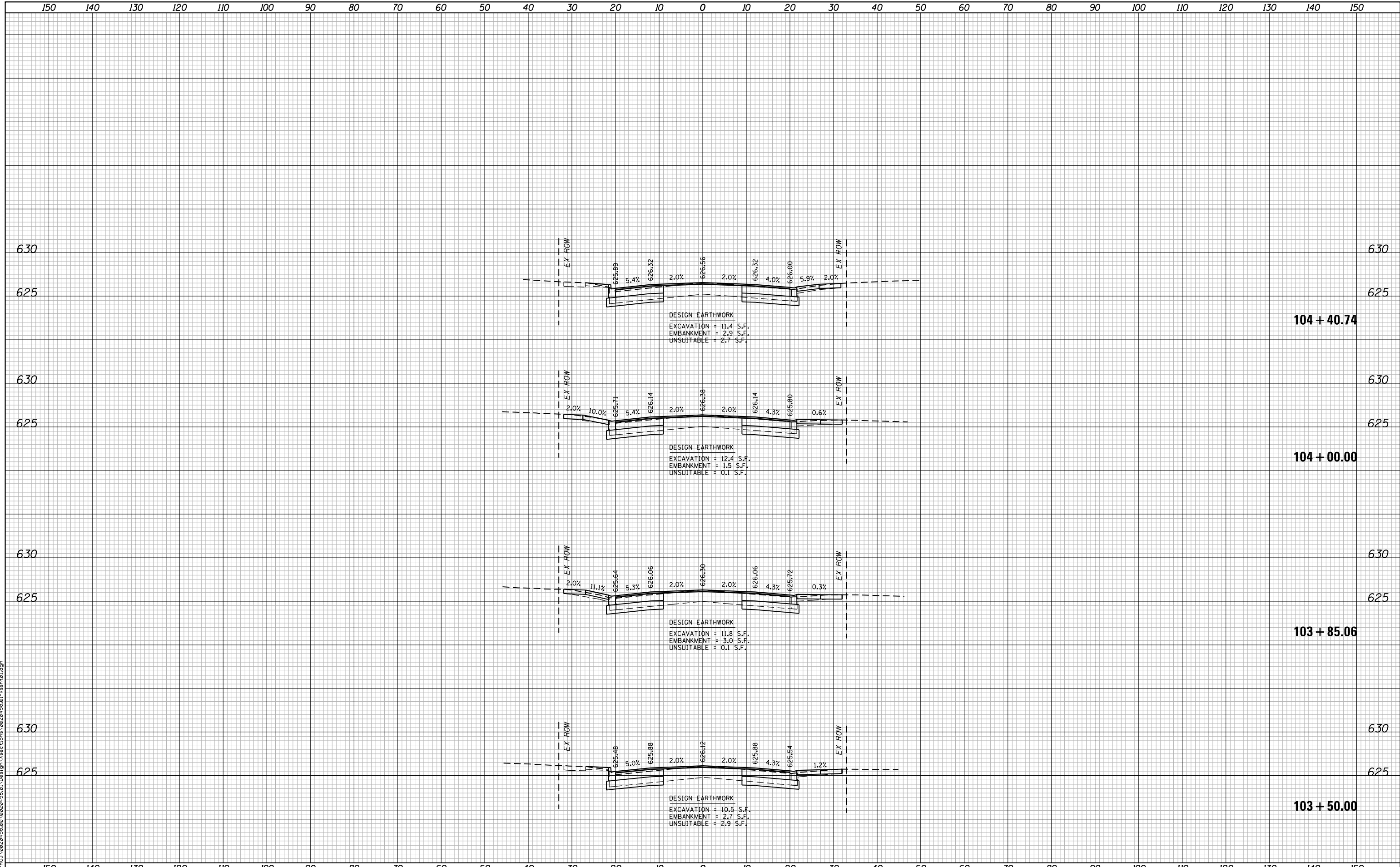
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**AUSTIN AVENUE IMPROVEMENTS
CROSS SECTIONS**

SCALE: SHEET NO. OF SHEETS STA. 102+00.00 TO STA. 103+00.00

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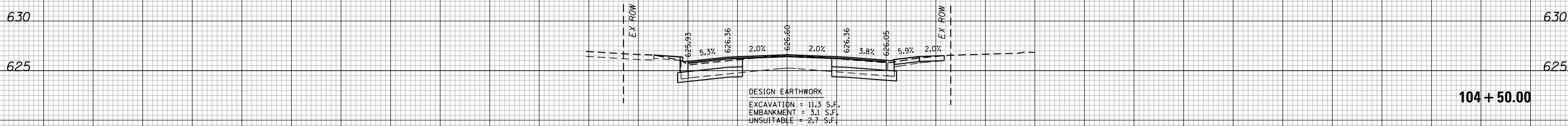
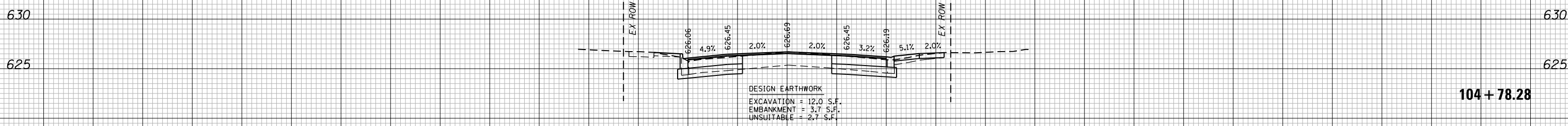
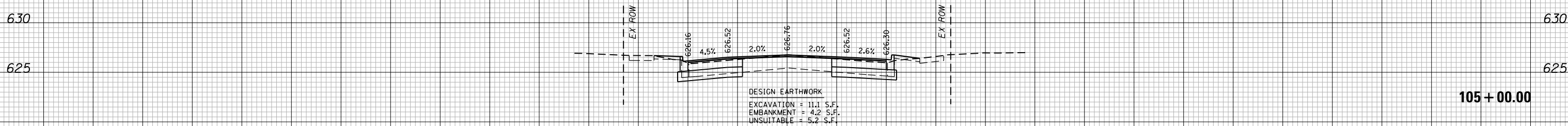
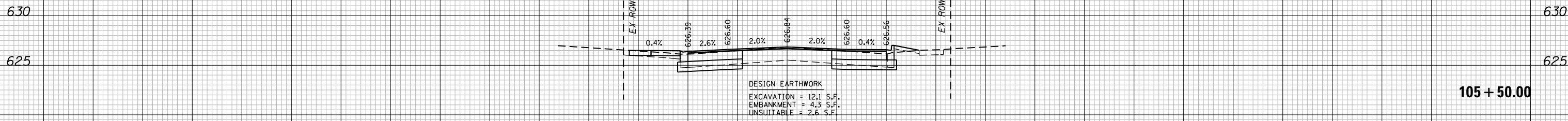
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**AUSTIN AVENUE IMPROVEMENTS
 CROSS SECTIONS**

SCALE: SHEET NO. OF SHEETS STA. 103+50.00 TO STA. 104+40.74

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2791	12-00106-00-PV	COOK	125	107
FED. ROAD DIST. NO. - ILLINOIS FED. AID PROJECT			CONTRACT NO. 61D77	

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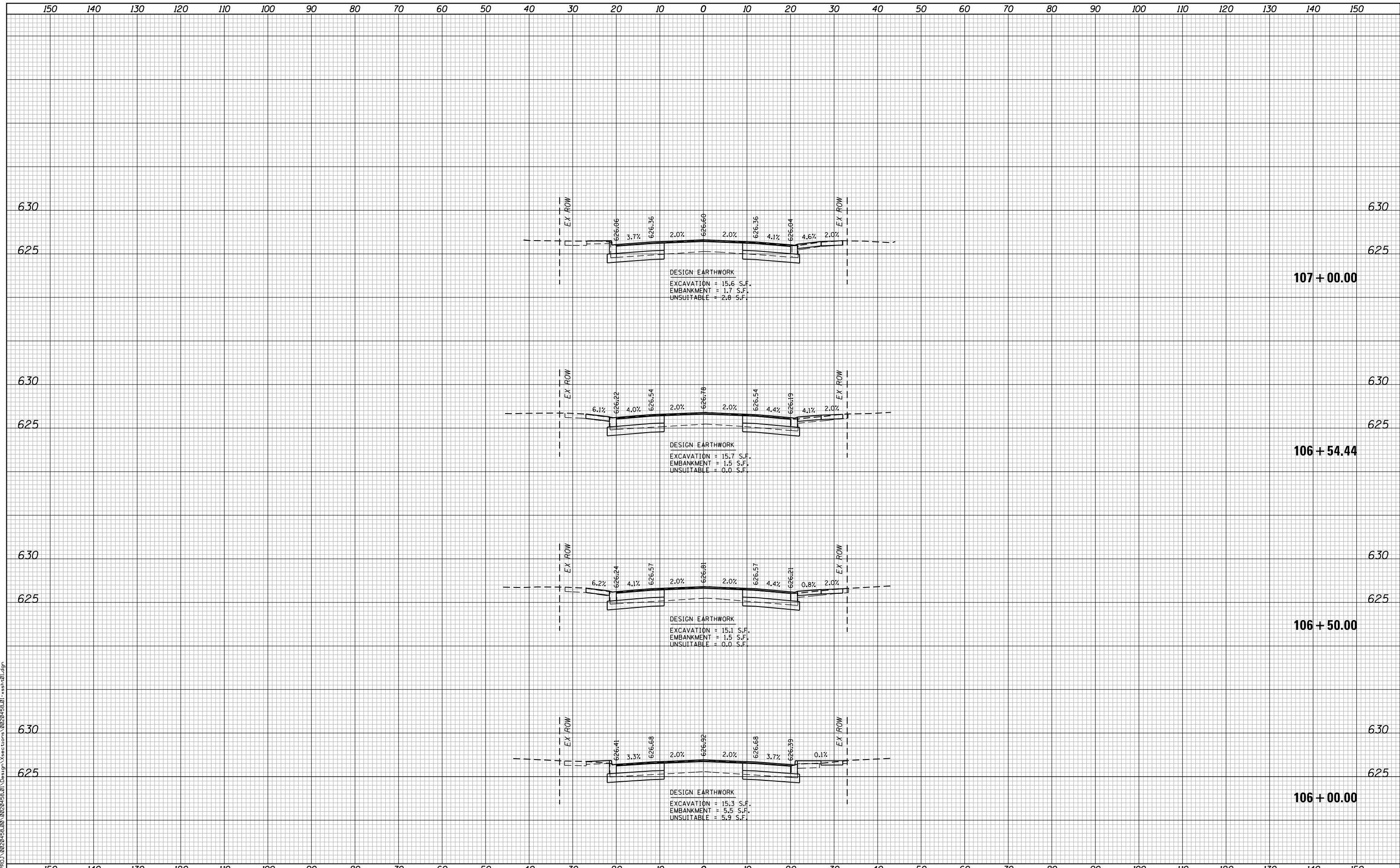
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**STATE OF ILLINOIS
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**AUSTIN AVENUE IMPROVEMENTS
CROSS SECTIONS**

SCALE: SHEET NO. OF SHEETS STA. 104+50.00 TO STA. 105+50.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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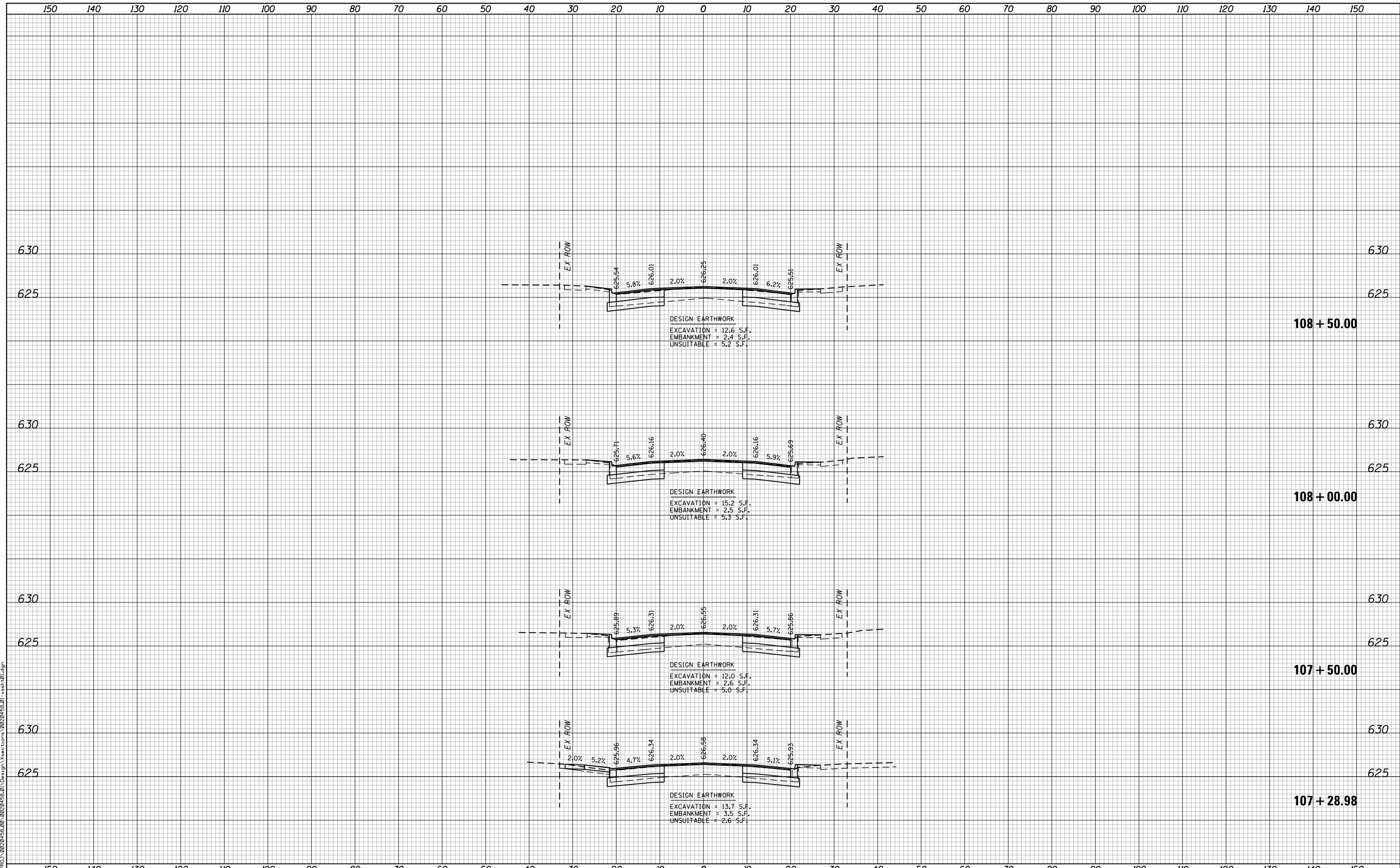
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**STATE OF ILLINOIS
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**AUSTIN AVENUE IMPROVEMENTS
CROSS SECTIONS**

SCALE: SHEET NO. OF SHEETS STA. 106+00.00 TO STA. 107+00.00

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2791	12-00106-00-PV	COOK	125	109
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**STATE OF ILLINOIS
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**AUSTIN AVENUE IMPROVEMENTS
CROSS SECTIONS**

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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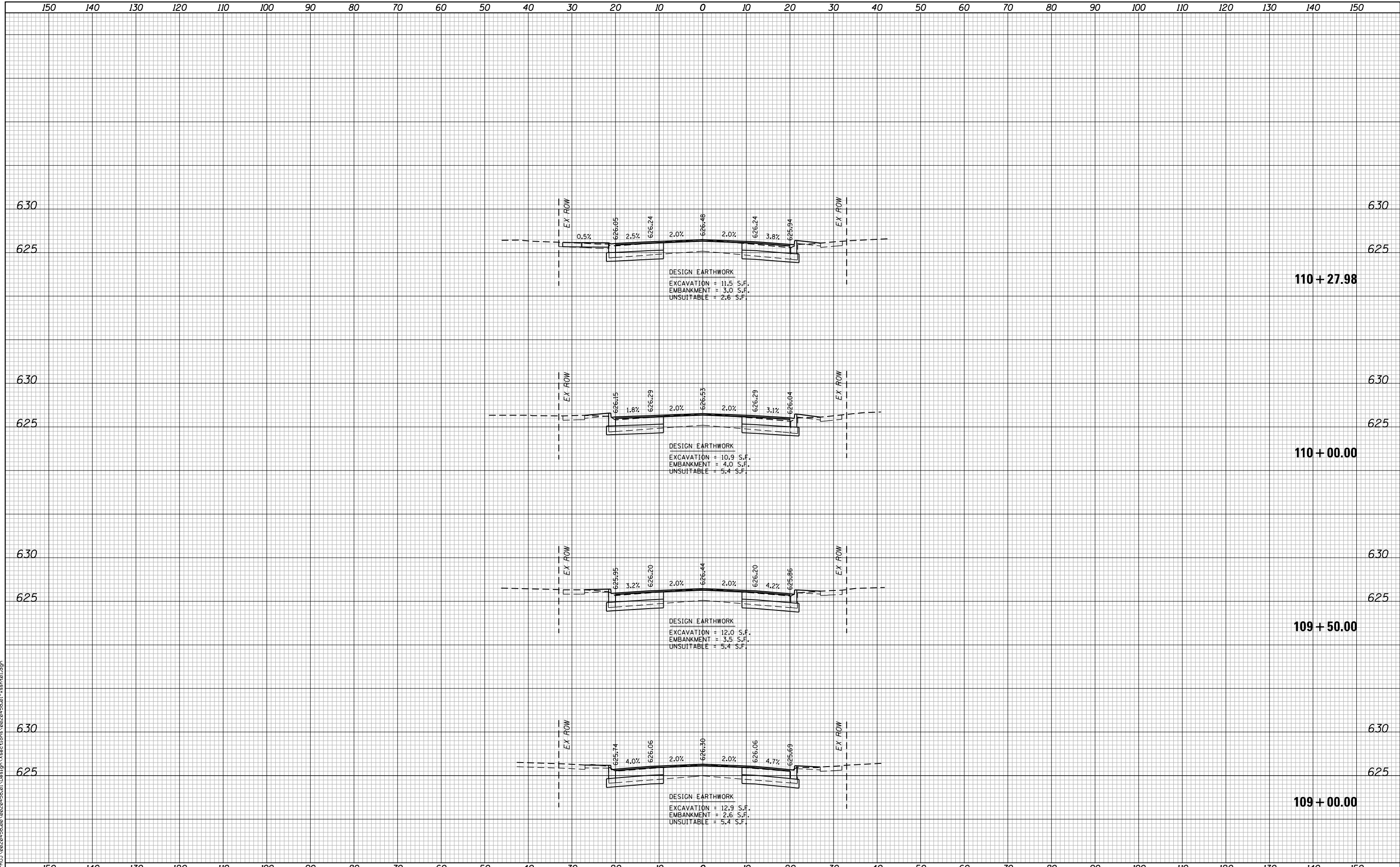
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108 + 50.00

108 + 00.00

107 + 50.00

107 + 28.98



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CiorbaGroup
 8725 W. Higgins Rd, Ste 600, Chicago, IL 60631
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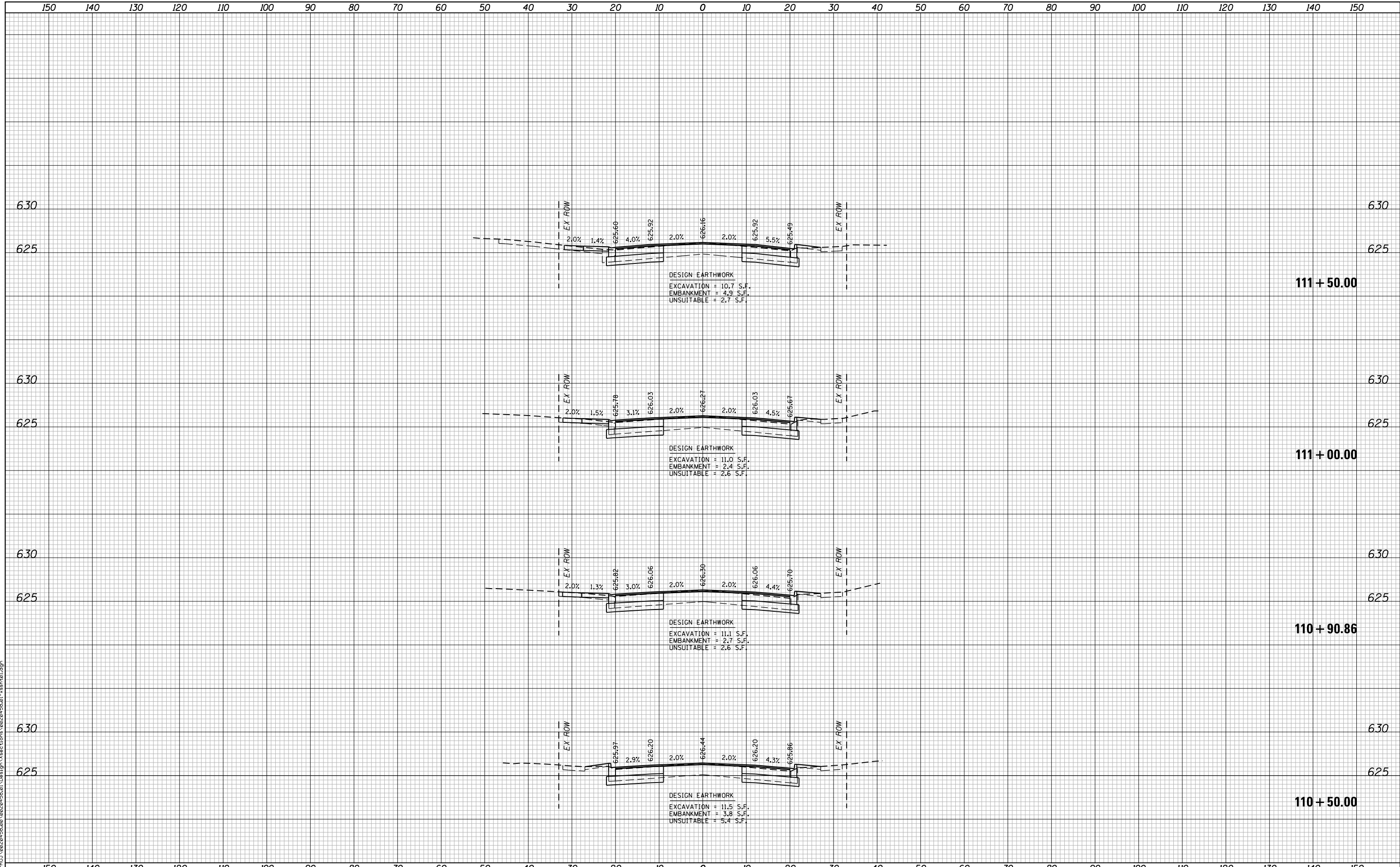
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**AUSTIN AVENUE IMPROVEMENTS
 CROSS SECTIONS**

SCALE: SHEET NO. OF SHEETS STA. 109+00.00 TO STA. 110+27.98

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FED. ROAD DIST. NO. - ILLINOIS FED. AID PROJECT			CONTRACT NO. 61D77	



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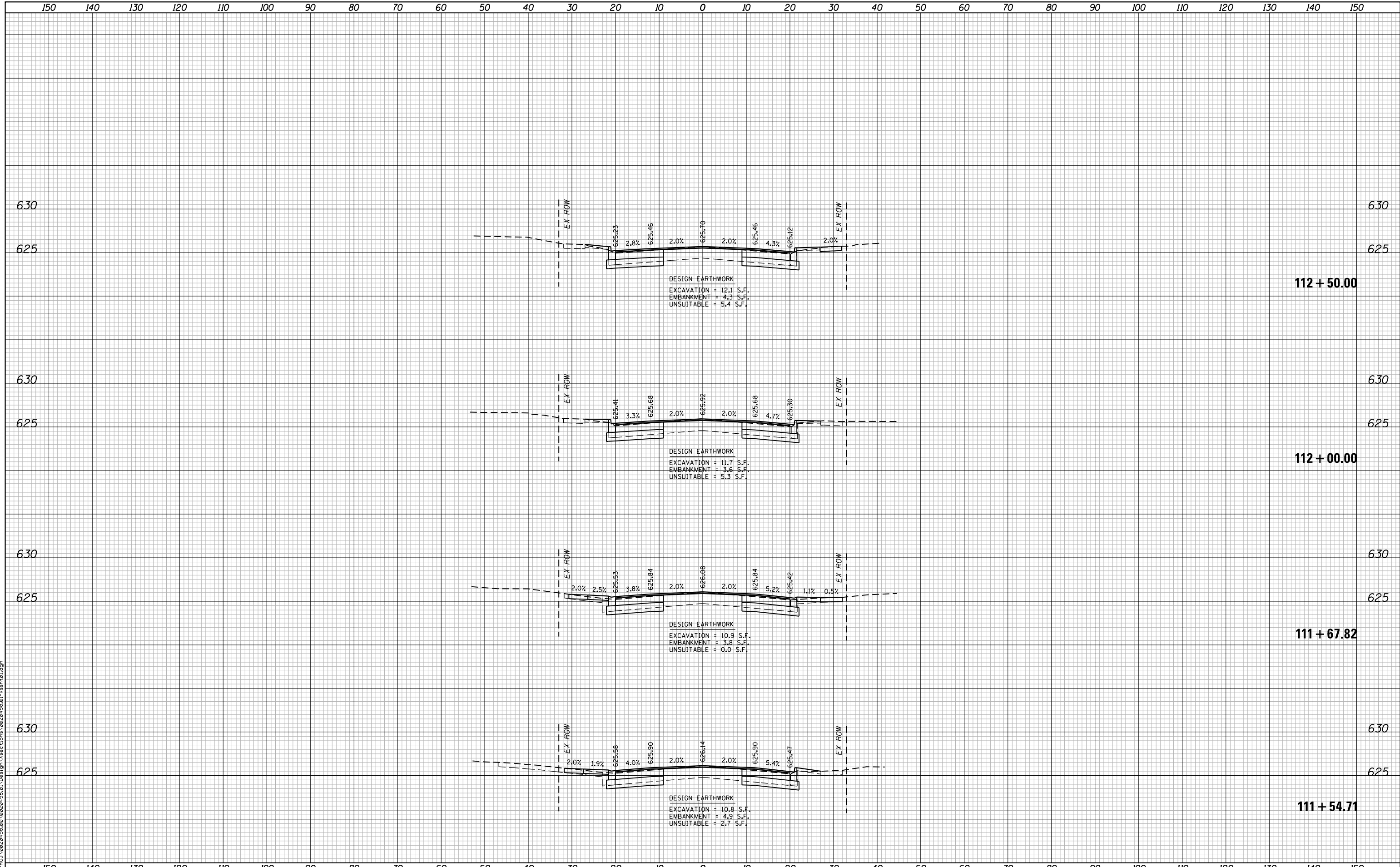
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**AUSTIN AVENUE IMPROVEMENTS
CROSS SECTIONS**

SCALE: SHEET NO. OF SHEETS STA. 110+50.00 TO STA. 111+50.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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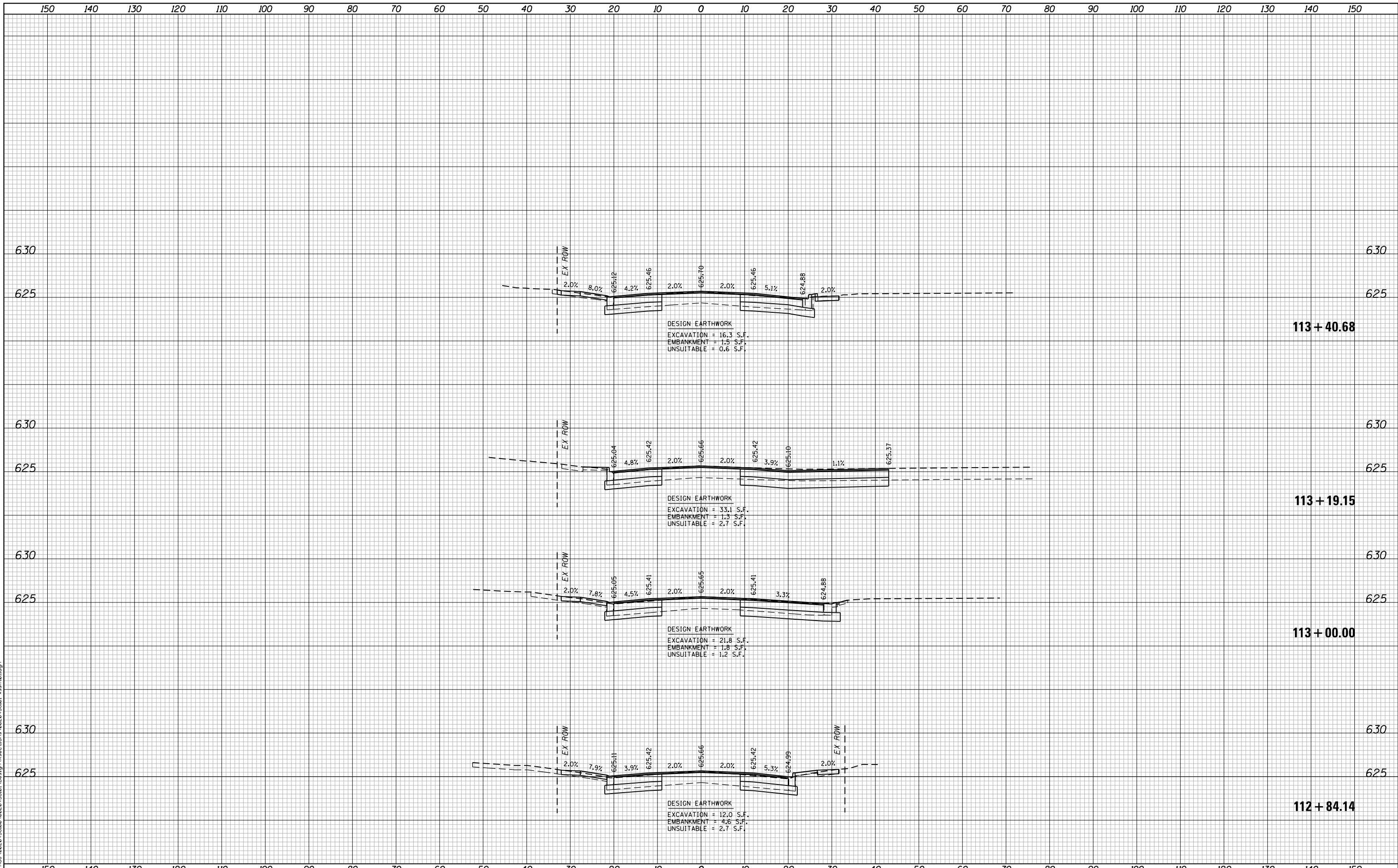
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**STATE OF ILLINOIS
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**AUSTIN AVENUE IMPROVEMENTS
 CROSS SECTIONS**

SCALE: SHEET NO. OF SHEETS STA. 111+54.71 TO STA. 112+50.00

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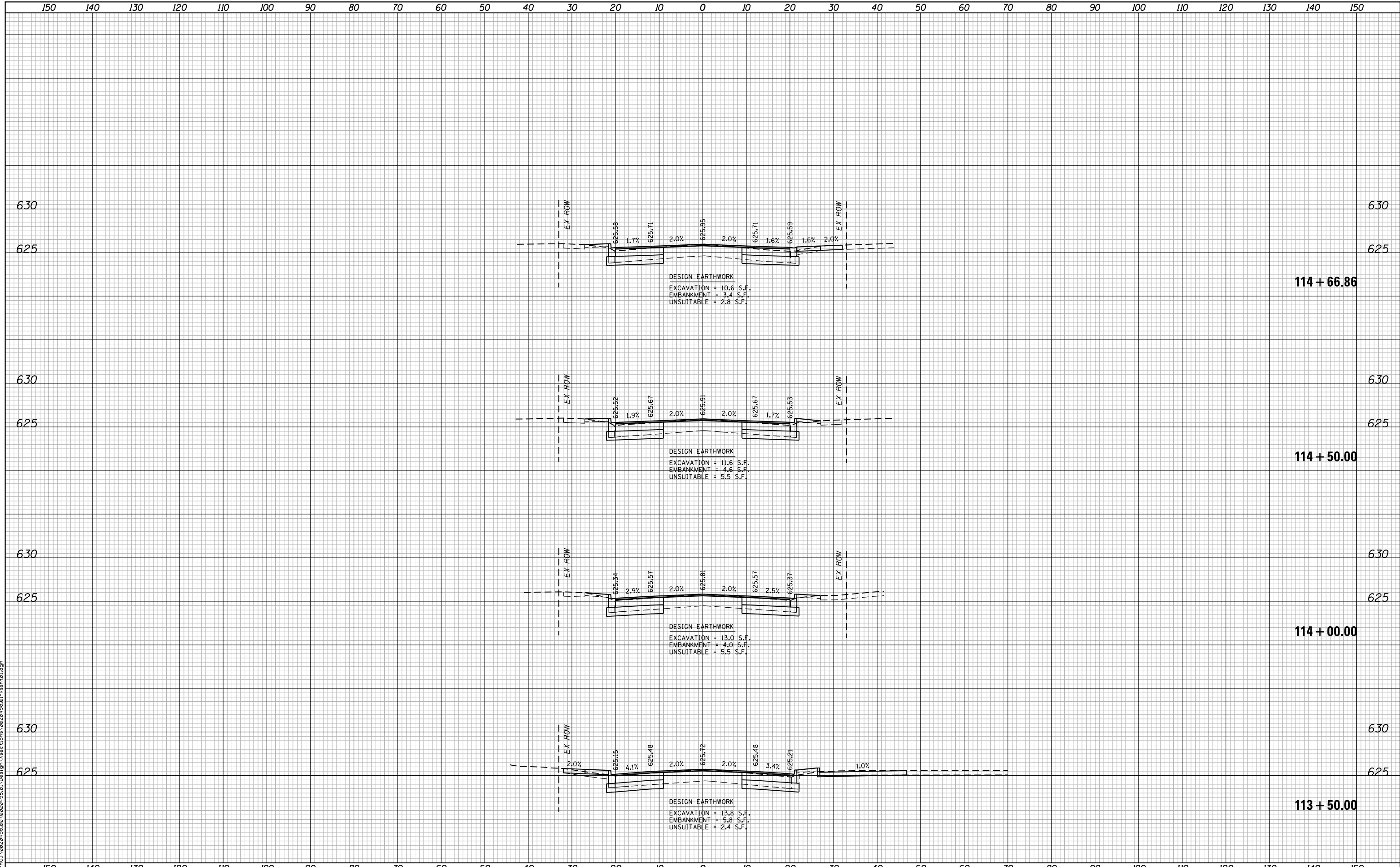
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

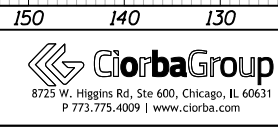
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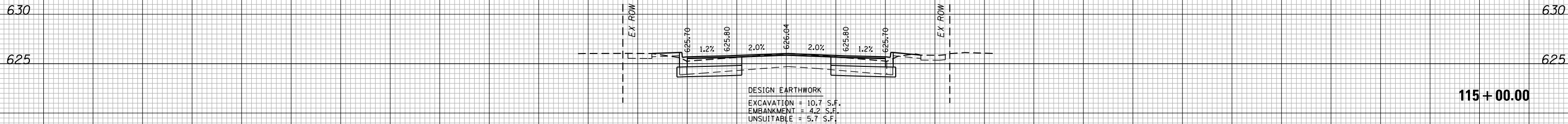
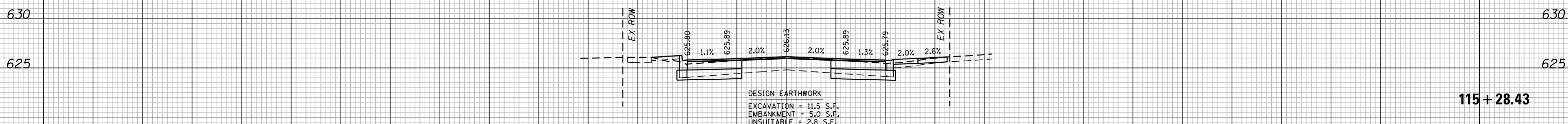
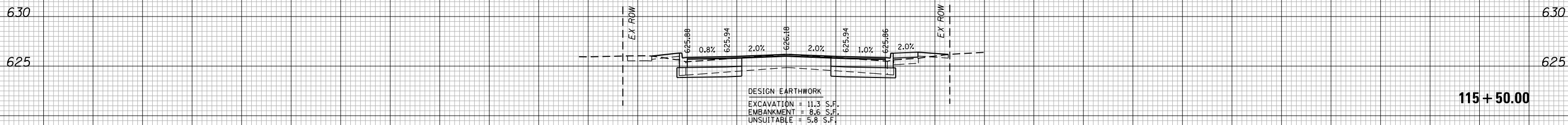
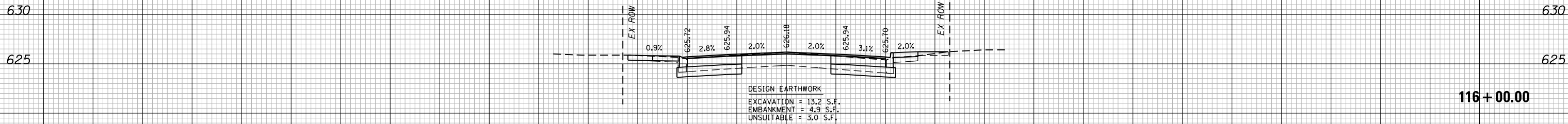
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**AUSTIN AVENUE IMPROVEMENTS
CROSS SECTIONS**

SCALE: SHEET NO. OF SHEETS STA. 113+50.00 TO STA. 114+66.86

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2791	12-00106-00-PV	COOK	125	115
FED. ROAD DIST. NO. - ILLINOIS FED. AID PROJECT			CONTRACT NO. 61D77	

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



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

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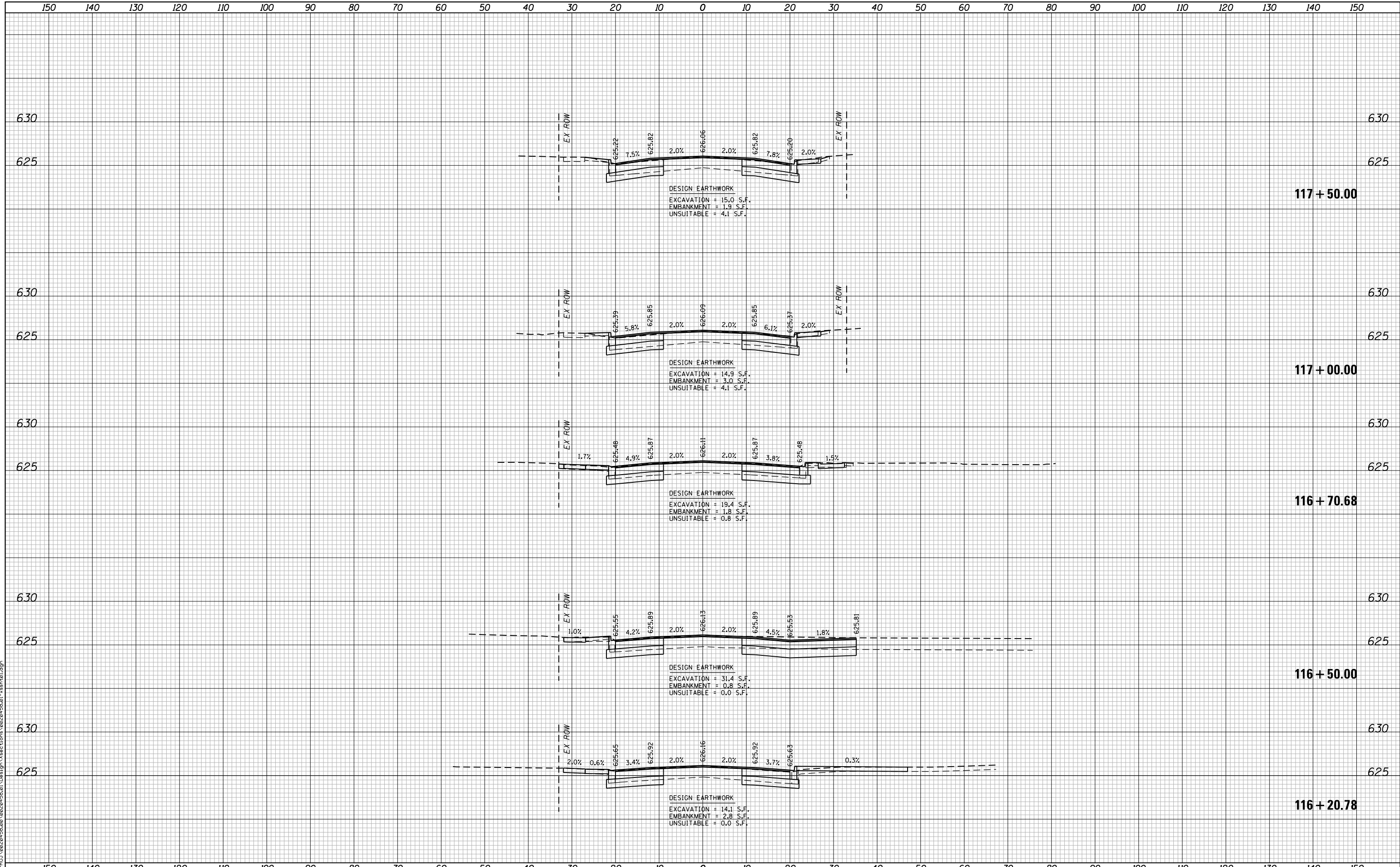
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	DRAWN - \$DRAWN	REVISED -
PLOT SCALE = 20.0000' / in.	CHECKED - \$CHECKED	REVISED -
PLOT DATE = 12/28/2023	DATE - DEC 2023	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**AUSTIN AVENUE IMPROVEMENTS
 CROSS SECTIONS**

SCALE: SHEET NO. OF SHEETS STA. 115+00.00 TO STA. 116+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2791	12-00106-00-PV	COOK	125	116
FED. ROAD DIST. NO. - ILLINOIS FED. AID PROJECT			CONTRACT NO. 61D77	



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PLOT SCALE = 20.0000' / in.	CHECKED - \$CHECKED	REVISED -
PLOT DATE = 12/28/2023	DATE - DEC 2023	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

AUSTIN AVENUE IMPROVEMENTS CROSS SECTIONS			
SCALE:	SHEET NO.	OF SHEETS	STA. 116+20.78 TO STA. 117+50.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2791	12-00106-00-PV	COOK	125	117
FED. ROAD DIST. NO. - ILLINOIS FED. AID PROJECT			CONTRACT NO. 61D77	

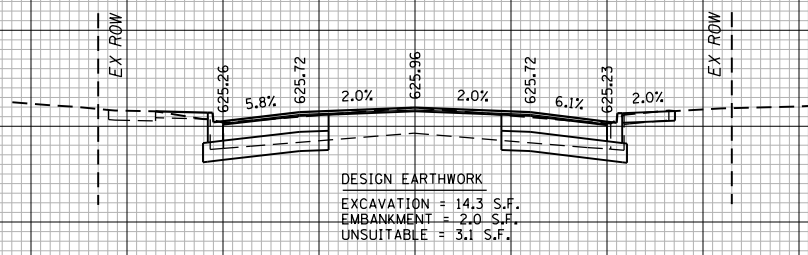
150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

630

630

625

625



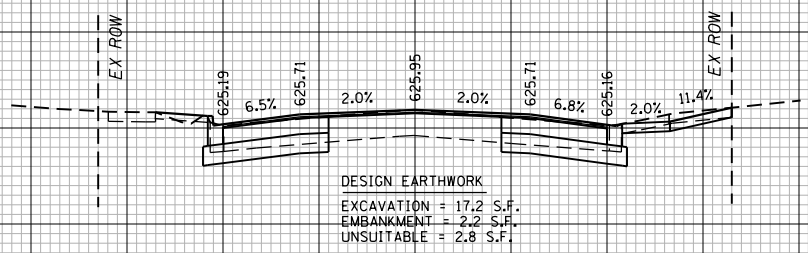
118 + 50.00

630

630

625

625



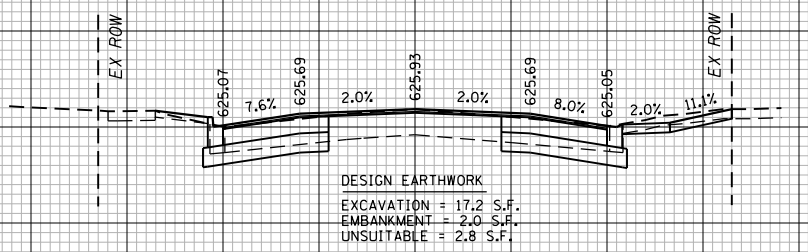
118 + 32.55

630

630

625

625



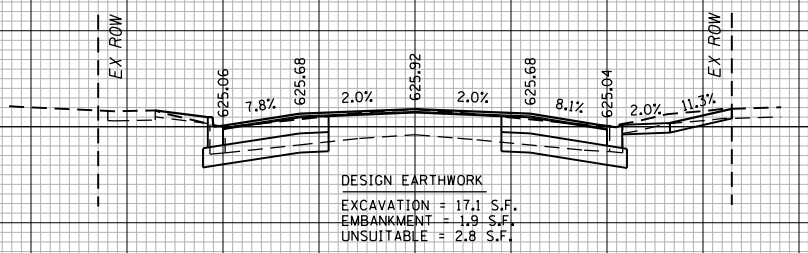
118 + 03.45

630

630

625

625



118 + 00.00

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

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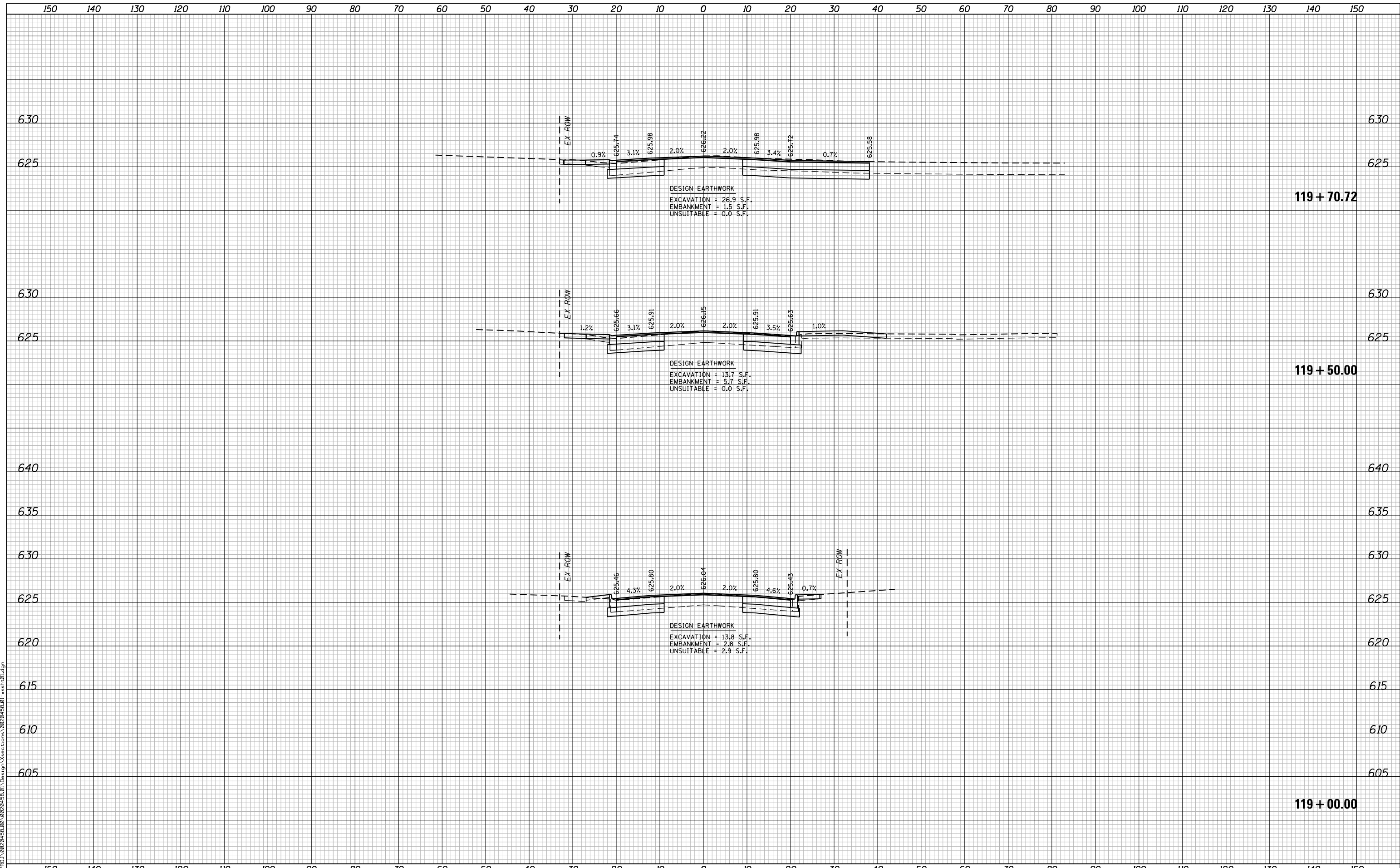
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PLOT DATE = 12/28/2023	DATE - DEC 2023	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**AUSTIN AVENUE IMPROVEMENTS
CROSS SECTIONS**

SCALE: SHEET NO. OF SHEETS STA. 118+00.00 TO STA. 118+50.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2791	12-00106-00-PV	COOK	125	118
FED. ROAD DIST. NO. - ILLINOIS FED. AID PROJECT			CONTRACT NO. 61D77	



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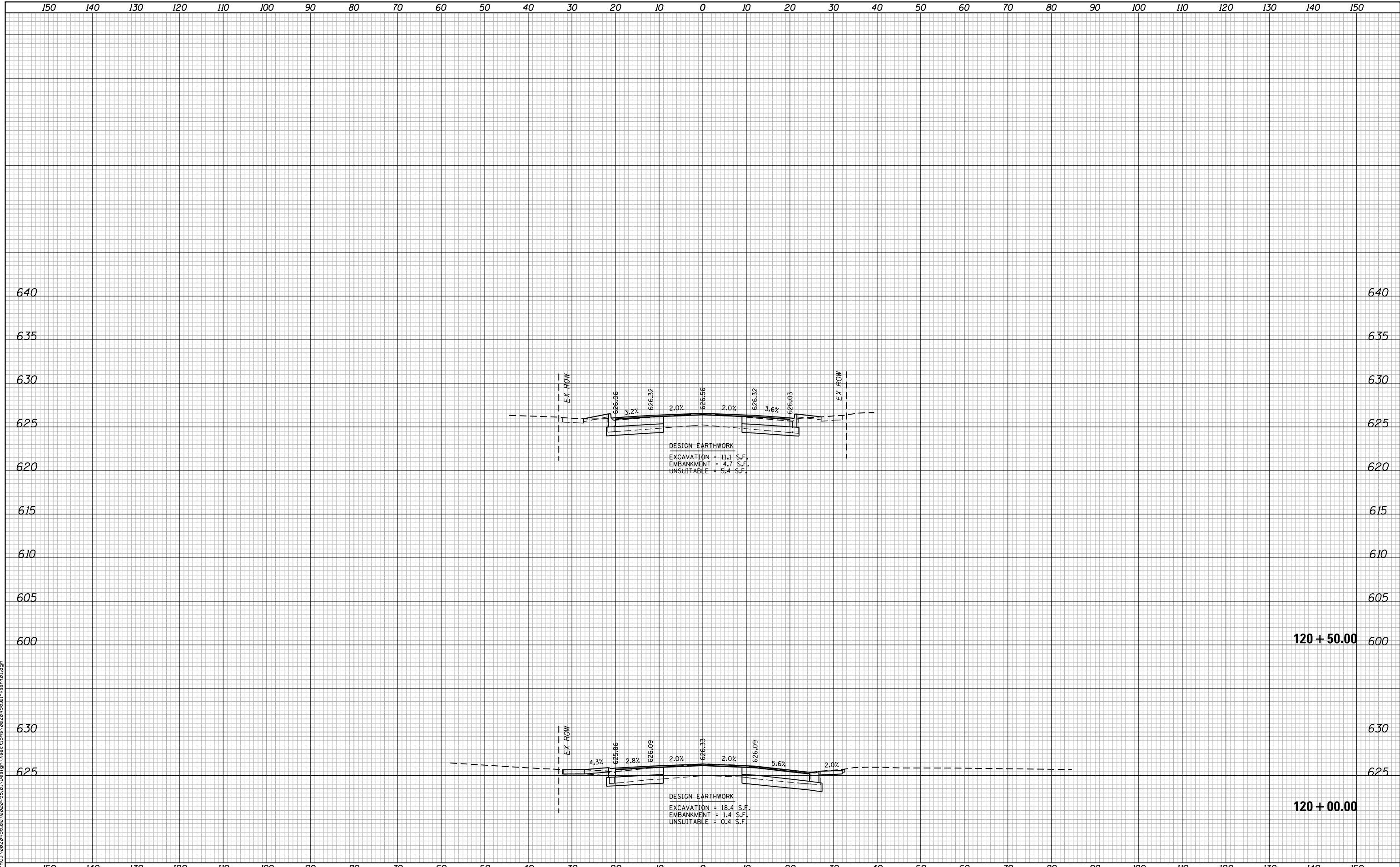
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	DRAWN - \$DRAWN	REVISED -
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PLOT DATE = 12/28/2023	DATE - DEC 2023	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**AUSTIN AVENUE IMPROVEMENTS
CROSS SECTIONS**

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2791	12-00106-00-PV	COOK	125	119
FED. ROAD DIST. NO. - ILLINOIS FED. AID PROJECT			CONTRACT NO. 61D77	

SCALE: SHEET NO. OF SHEETS STA. 119+00.00 TO STA. 119+70.72



FILE NAME = N:\PROJECTS\2023\458\00\02\0458\01\Design\Sections\0220458_01_xsh.dwg

CiorbaGroup
 8725 W. Higgins Rd, Ste 600, Chicago, IL 60631
 P 773.775.4009 | www.ciorba.com

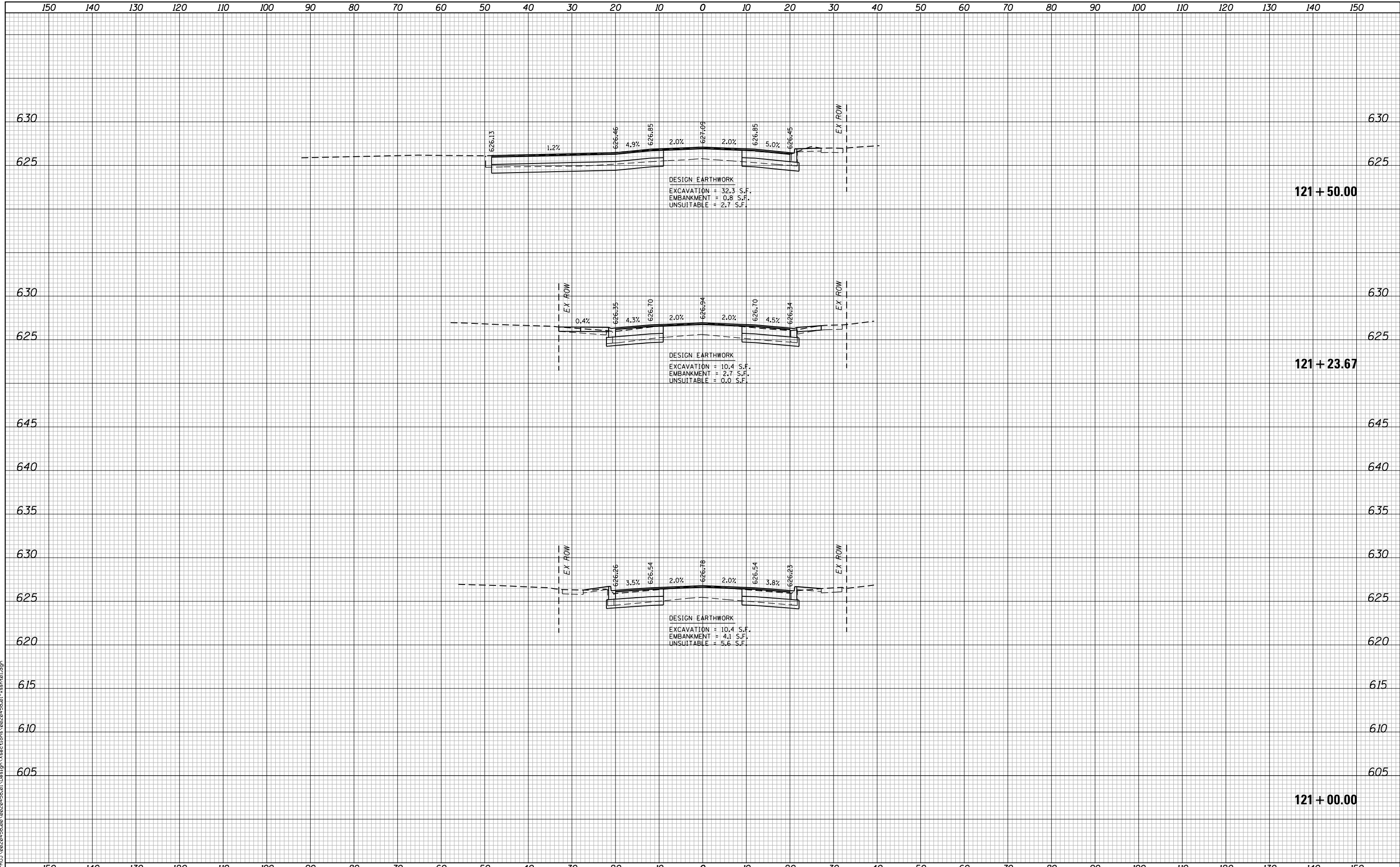
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PLOT DATE = 12/28/2023	DATE - DEC 2023	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**AUSTIN AVENUE IMPROVEMENTS
 CROSS SECTIONS**

SCALE: SHEET NO. OF SHEETS STA. 120+00.00 TO STA. 120+50.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2791	12-00106-00-PV	COOK	125	120
FED. ROAD DIST. NO. - ILLINOIS FED. AID PROJECT			CONTRACT NO. 61D77	



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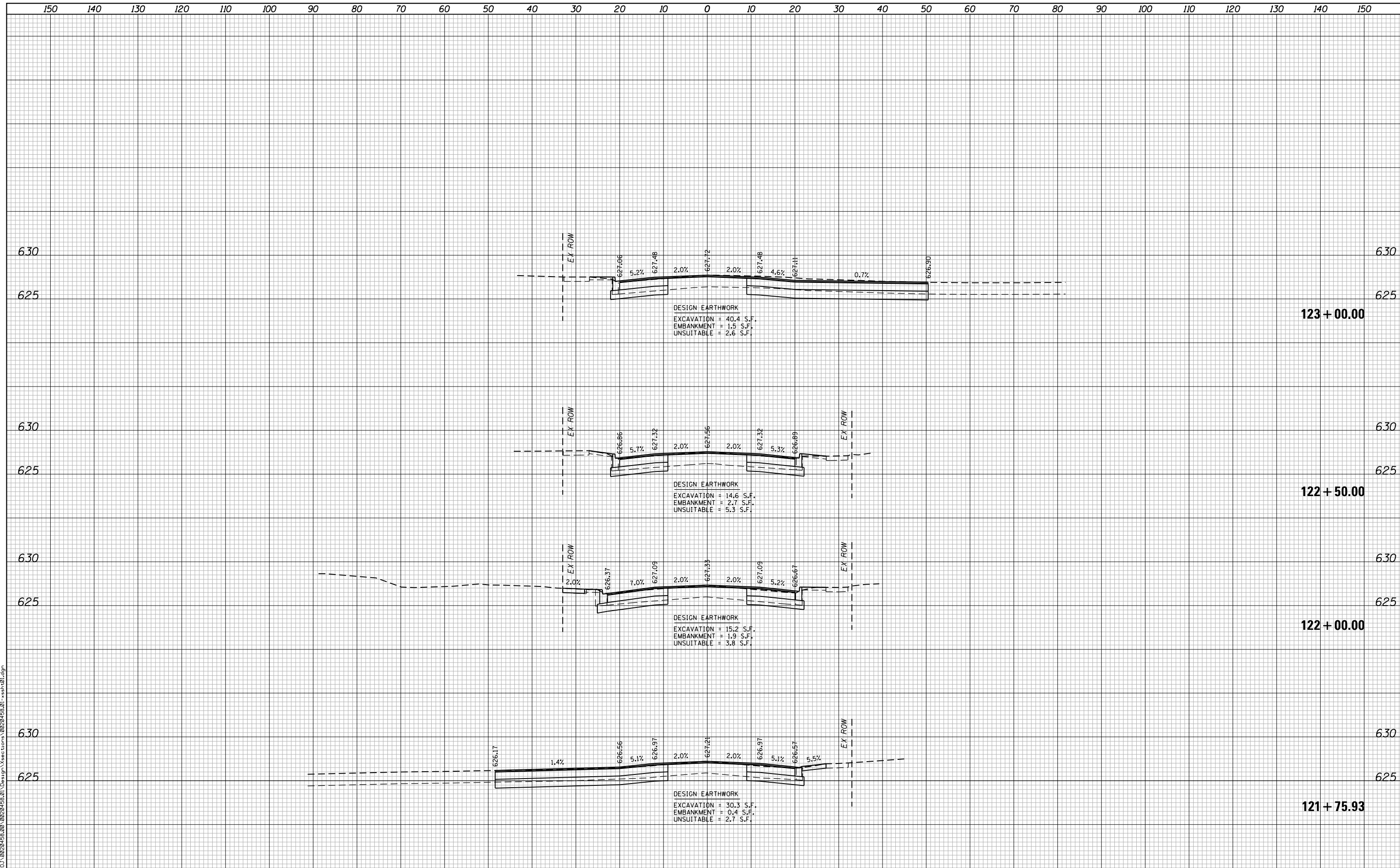
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PLOT DATE = 12/28/2023	DATE - DEC 2023	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**AUSTIN AVENUE IMPROVEMENTS
CROSS SECTIONS**

SCALE: SHEET NO. OF SHEETS STA. 121+00.00 TO STA. 121+50.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2791	12-00106-00-PV	COOK	125	121
FED. ROAD DIST. NO. - ILLINOIS FED. AID PROJECT			CONTRACT NO. 61D77	



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630

625

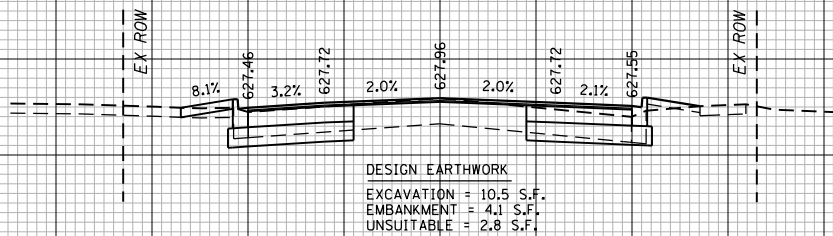
620

630

625

620

124 + 00.00



DESIGN EARTHWORK
 EXCAVATION = 10.5 S.F.
 EMBANKMENT = 4.1 S.F.
 UNSUITABLE = 2.8 S.F.

630

625

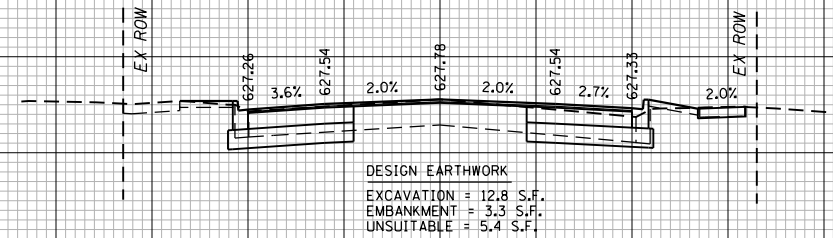
620

630

625

620

123 + 50.00



DESIGN EARTHWORK
 EXCAVATION = 12.8 S.F.
 EMBANKMENT = 3.3 S.F.
 UNSUITABLE = 5.4 S.F.

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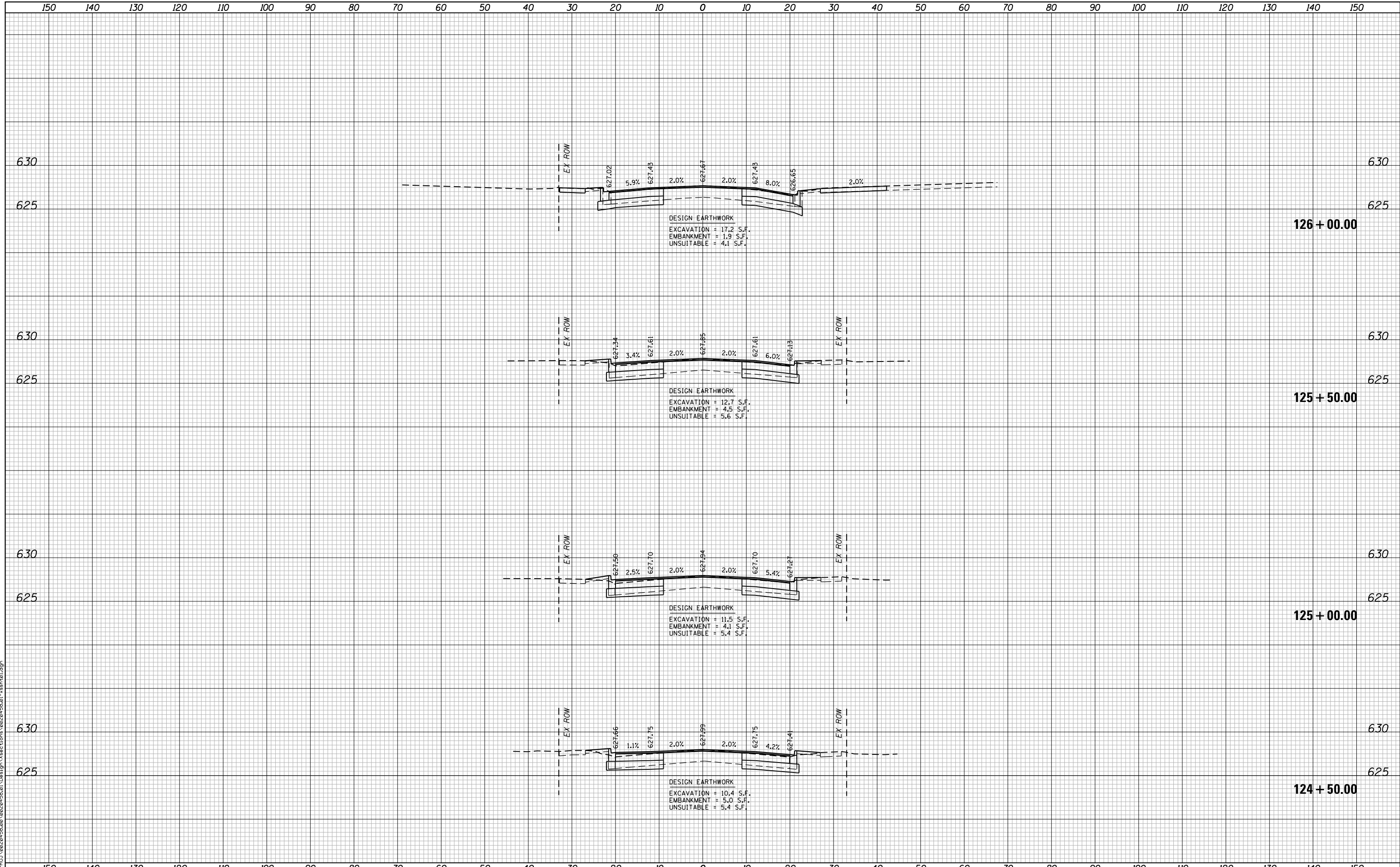


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	DRAWN - \$DRAWN	REVISED -
PLOT SCALE = 20.0000' / in.	CHECKED - \$CHECKED	REVISED -
PLOT DATE = 12/28/2023	DATE - DEC 2023	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

AUSTIN AVENUE IMPROVEMENTS CROSS SECTIONS			
SCALE:	SHEET NO.	OF SHEETS	STA. 123+50.00 TO STA. 124+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2791	12-00106-00-PV	COOK	125	123
FED. ROAD DIST. NO. - ILLINOIS FED. AID PROJECT			CONTRACT NO. 61D77	



FILE NAME = N:\PROJECTS\0220458.00\0220458.01\Design\Sections\0220458.01-xsh.dwg



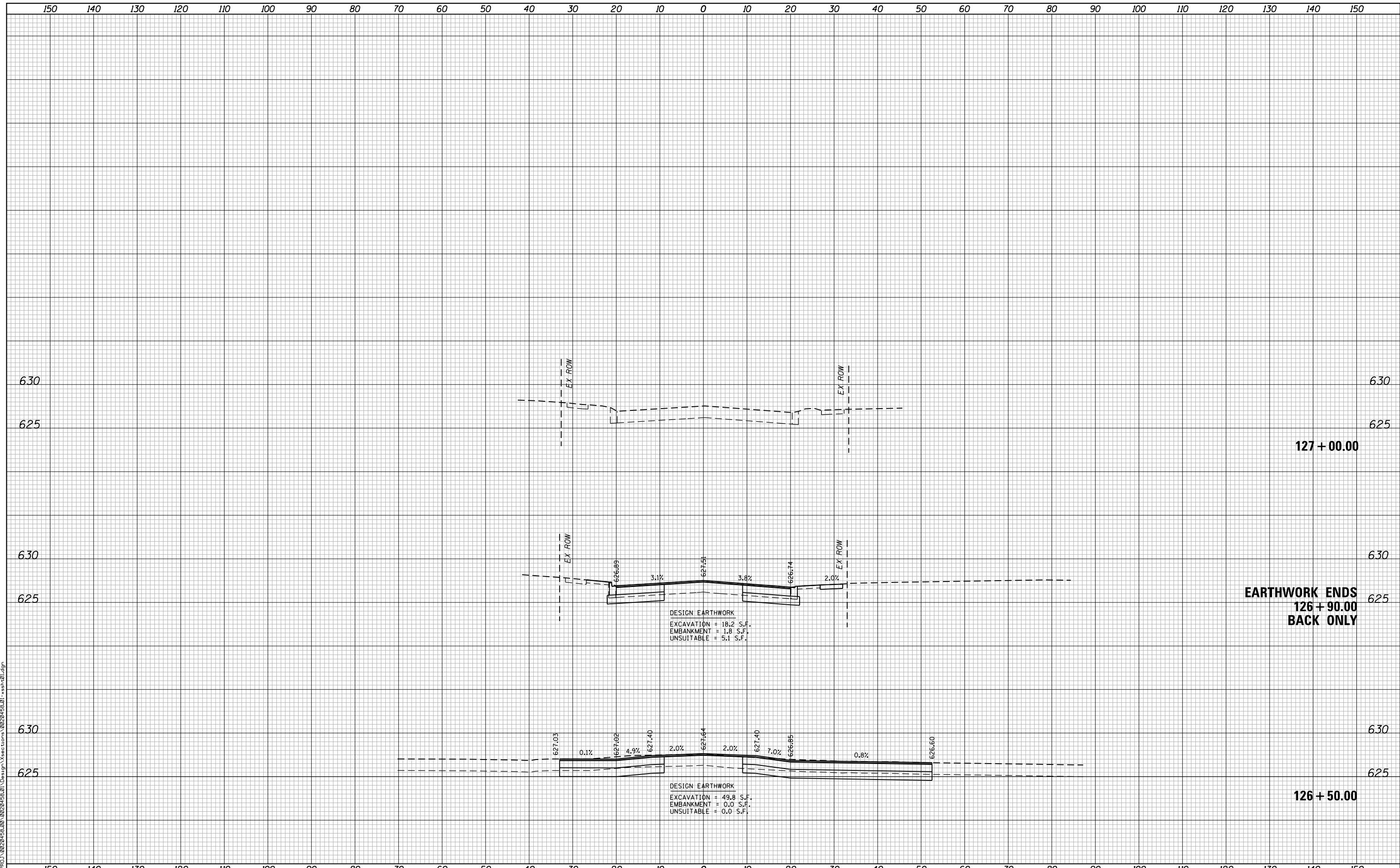
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PLOT SCALE = 20.0000' / in.	CHECKED - \$CHECKED	REVISED -
PLOT DATE = 12/28/2023	DATE - DEC 2023	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**AUSTIN AVENUE IMPROVEMENTS
CROSS SECTIONS**

SCALE: SHEET NO. OF SHEETS STA. 124+50.00 TO STA. 126+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2791	12-00106-00-PV	COOK	125	124
FED. ROAD DIST. NO. - ILLINOIS FED. AID PROJECT			CONTRACT NO. 61D77	

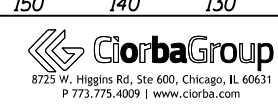


127 + 00.00

**EARTHWORK ENDS
126 + 90.00
BACK ONLY**

126 + 50.00

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USER NAME = Roadway	DESIGNED - \$DESIGNED	REVISED -
	DRAWN - \$DRAWN	REVISED -
PLOT SCALE = 20.0000' / in.	CHECKED - \$CHECKED	REVISED -
PLOT DATE = 12/28/2023	DATE - DEC 2023	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**AUSTIN AVENUE IMPROVEMENTS
CROSS SECTIONS**

SCALE: SHEET NO. OF SHEETS STA. 126+50.00 TO STA. 127+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2791	12-00106-00-PV	COOK	125	125
FED. ROAD DIST. NO. - ILLINOIS FED. AID PROJECT			CONTRACT NO. 61D77	