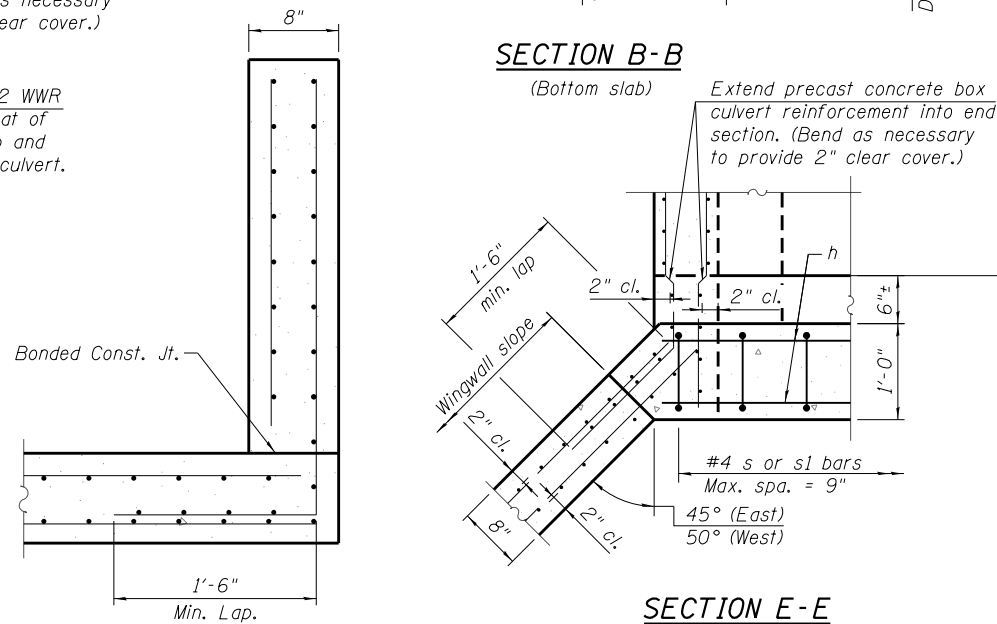
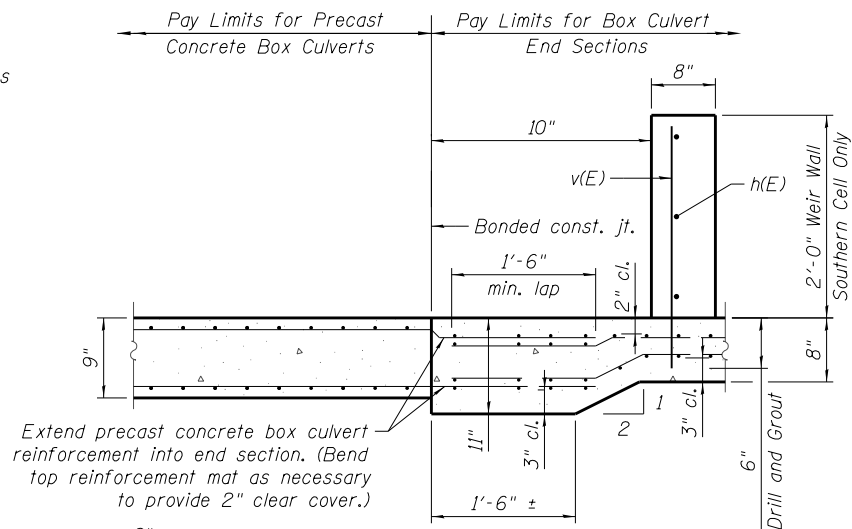


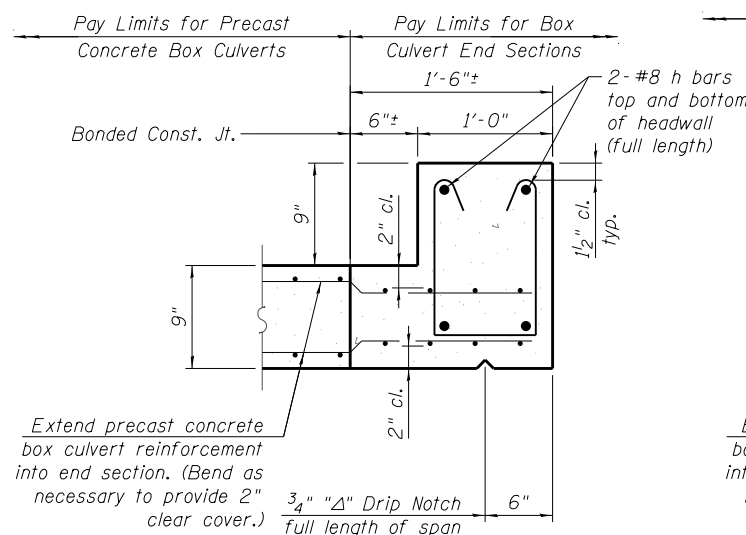
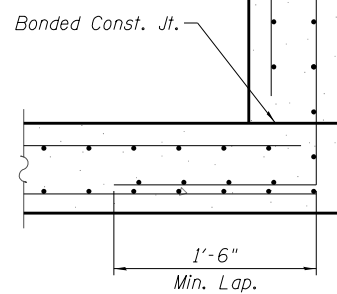
* The Contractor shall furnish a precast toewall. The Contractor shall be responsible for the strength and stability of the precast toewall during handling. Additional lifting points may be required depending upon the length of the toewall or the Contractor may need to modify the design of the toewall for the proposed handling method.

TOEWALL CONSTRUCTION SEQUENCE

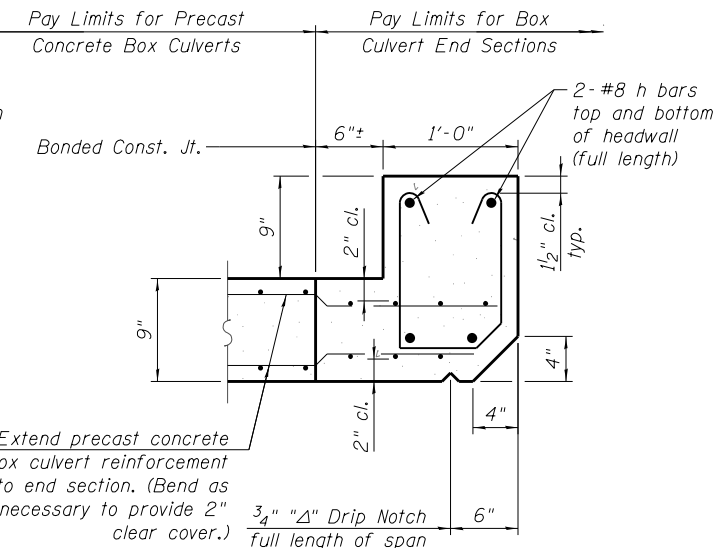
1. Perform excavation and construct toewall.
2. Backfill according to the applicable paragraphs of Article 502.10 of the Standard Specifications and place bedding for precast box culvert end sections.
3. Set precast box culvert end section.
4. Drill and epoxy grout reinforcement in toewall in accordance with Section 584 of the Standard Specifications.
5. Pressure grout voids using non-shrink grout conforming to Section 1024 of the Standard Specifications.



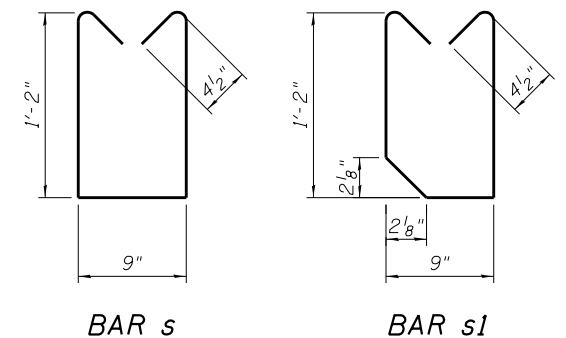
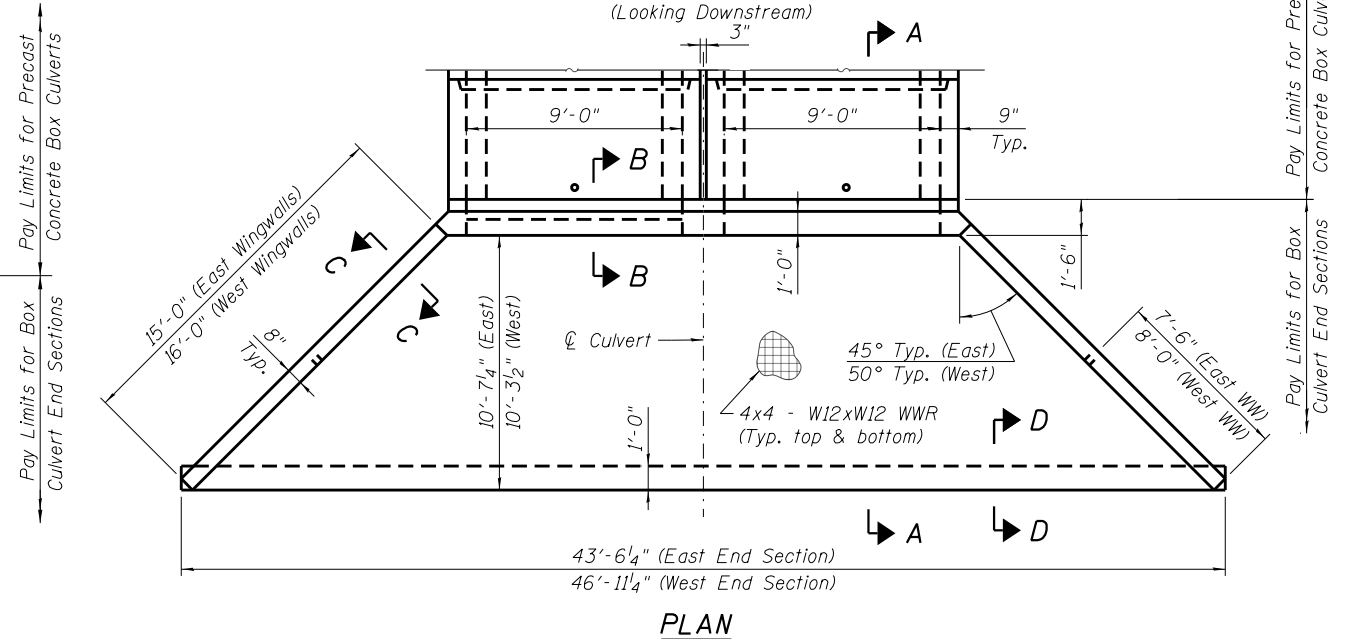
SECTION C-C



SECTION B-B
(Top slab at downstream end)



SECTION B-B
(Top slab at upstream end)



WEIR WALL BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h(E)	3	#4	8'-8"	—
v(E)	10	#4	2'-4"	—
Reinforcement Bars, Epoxy Coated			Pound	40
Concrete Structures			Cu. Yd.	1



USER NAME =
DESIGNED - AM
CHECKED - DD
PLOT SCALE =
DRAWN - AM
PLOT DATE = 2/8/2021
CHECKED - MCC

DESIGNED - AM
CHECKED - DD
DRAWN - AM
CHECKED - MCC

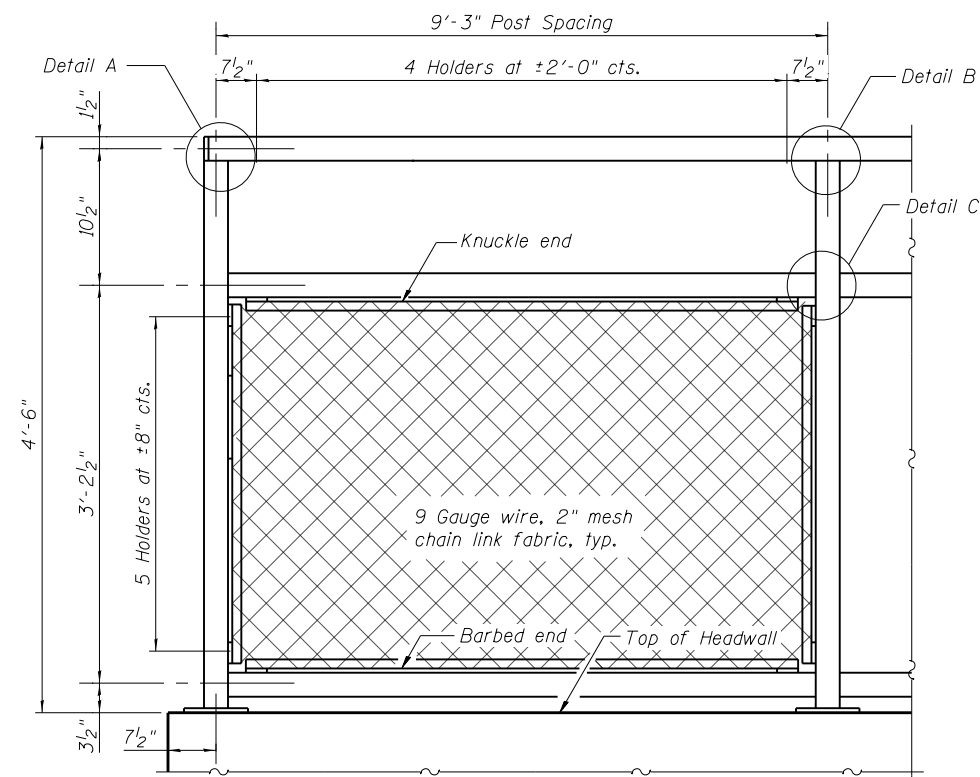
REVISED
REVISED
REVISED
REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

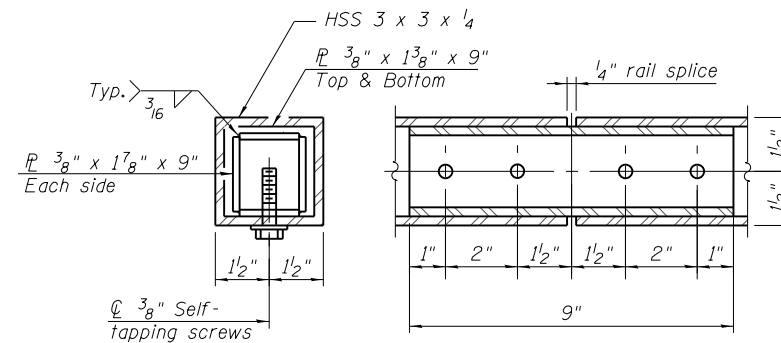
PRECAST CONCRETE BOX CULVERT APRON END
SECTION DETAILS - BOX CULVERT STRUCTURE #1

SHEET NO. SB-03 OF SB-05 SHEETS

F.A.P. RTE. SECTION COUNTY TOTAL SHEETS SHEET NO.
11-F3001-01-BT WILL 234 101
CONTRACT NO. 61G74
ILLINOIS FED. AID PROJECT

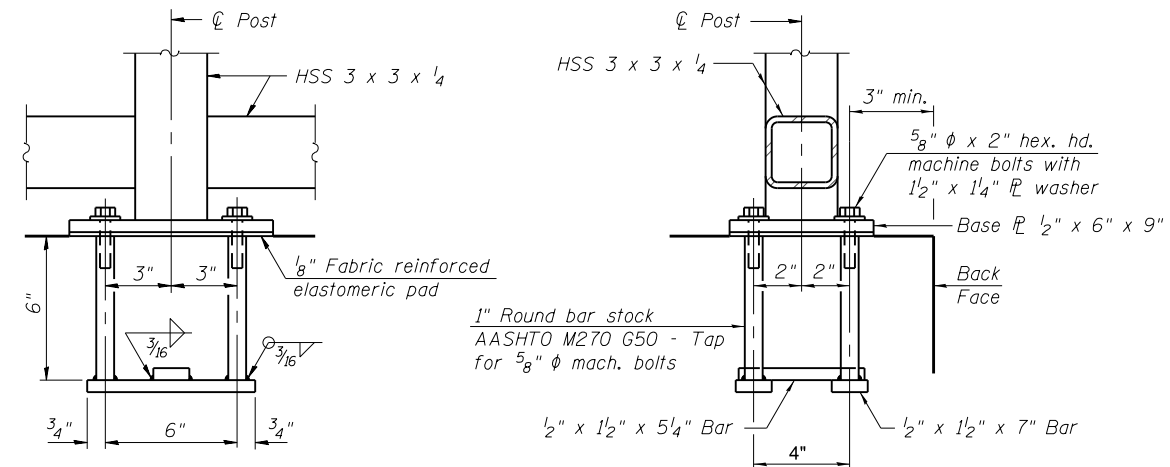


BICYCLE RAILING ELEVATION



RAIL SPLICE

All structural steel tubing, post and railing, for parapet railing shall be CVN tested according to 1006.34(b) of the Standard Specifications. CVN testing may be omitted for the Bicycle Railing.



ANCHOR BOLT DETAILS

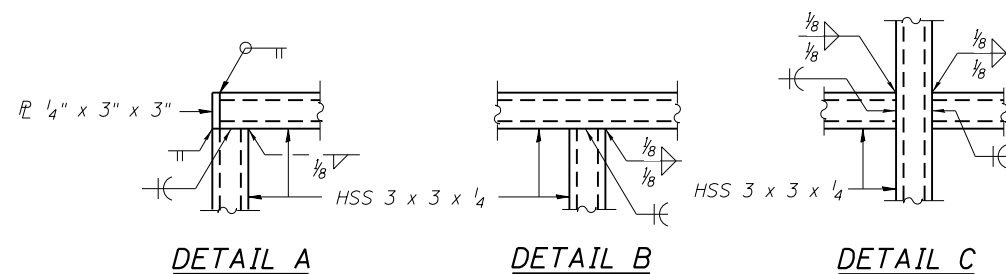
In lieu of the cast-in-place anchor device shown, the Contractor has the option of drilling and setting 5/8" ϕ anchor rods according to Article 509.06 of the Standard Specifications. Embedment shall be according to the manufacturer's specifications.

NOTES:

- All steel rail elements shall be galvanized according to article 509.05 of the Standard Specifications

BILL OF MATERIAL

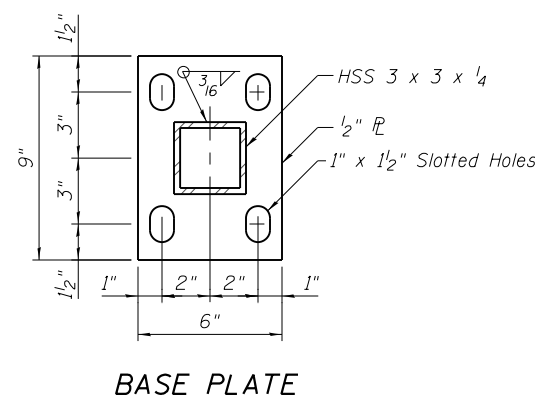
Item	Unit	Quantity
Bicycle Railing	Foot	40



DETAIL A

DETAIL B

DETAIL C



BASE PLATE



USER NAME =	DESIGNED - AM	REVISED
	CHECKED - DD	REVISED
PLOT SCALE =	DRAWN - AM	REVISED
PLOT DATE = 2/8/2021	CHECKED - MCC	REVISED

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**BICYCLE RAILING
BOX CULVERT STRUCTURE #1**

SHEET NO. SB-04 OF SB-05 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	11-F3001-01-BT	WILL	234	102
			CONTRACT NO. 61674	
ILLINOIS FED. AID PROJECT				

SOIL BORING LOG

Date 8/27/20

ROUTE _____ DESCRIPTION Proposed Culvert Location # 1 LOGGED BY SYED

SECTION 11-F3001-01-BT LOCATION Northing:1.787.868.01 Easting:1.076.215.71, SEC., TWP., RNG.

COUNTY WILL DRILLING METHOD Hollow Stem Auger HAMMER TYPE Automatic

STRUCT. NO. _____
 Station _____
 BORING NO. B-1
 Station _____
 Offset _____
 Ground Surface Elev. 708.90 ft

DEPTH (ft)	SOIL DESCRIPTION	U (tsf)	M (SPT)	DEPTH (ft)	SOIL DESCRIPTION	U (tsf)	M (SPT)
0	FILL- SANDY SILT with Gravel, Organic			0	LEAN CLAY, trace Sand and Gravel		
3	Brown			4	Gray		
5	FILL- CLAY, Brown and Gray	1.5	15.9	8	Very Stiff to Hard CL (continued)	4.5	15.0
6		P		11		P	
5				4			
8		2.0	15.3	6		3.5	17.6
6	LEAN CLAY, trace Sand and Gravel	P		9		P	
703.90	Brown and Gray						
4	Very Stiff CL			8			
5		2.5	17.6	7		2.0	11.2
7		P		5		P	
4				6			
4		4.0	16.6	9			12.9
6		P		13			
678.90	End of Boring						
2							
3		3.5	18.0				
6	LEAN CLAY, trace Sand and Gravel	P					
696.40	Gray						
5	Very Stiff to Hard CL			5			
9		2.3	6.2	9			
8		P		8			7.4
-15				9			
3							
5		2.3	12.0				
7		P					
9							
8							
9							
-20							

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
 The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

BBS, from 137 (Rev. 8-99)

SOIL BORING LOG

Date 8/27/20

ROUTE _____ DESCRIPTION Proposed Culvert Location # 1 LOGGED BY SYED

SECTION 11-F3001-01-BT LOCATION Northing:1.787.833.25 Easting:1.076.238.37, SEC., TWP., RNG.

COUNTY WILL DRILLING METHOD Hollow Stem Auger HAMMER TYPE Automatic

STRUCT. NO. _____
 Station _____
 BORING NO. B-2
 Station _____
 Offset _____
 Ground Surface Elev. 708.62 ft

DEPTH (ft)	SOIL DESCRIPTION	U (tsf)	M (SPT)	DEPTH (ft)	SOIL DESCRIPTION	U (tsf)	M (SPT)
0	6" TOP SOIL			0	LEAN CLAY, trace Gravel		
708.12	FILL- LEAN CLAY, trace Sand			4	Gray		
8	Brown			8	Very Stiff to Stiff CL (continued)	2.5	16.8
8		1.5	11.4	6		P	
6				3			
7		1.8	21.1	4		2.5	16.2
7	LEAN CLAY with Sand and Gravel	P		7		P	
703.62	Brown and Gray						
4	Very Stiff to Hard CL			4			
5		3.0	19.6	6		2.5	16.8
7		P		9		P	
5				4			
7		4.5	15.7	6		2.5	15.6
9		P		8		P	
678.62	End of Boring						
4							
7		4.5	14.4				
10	LEAN CLAY, trace Gravel	P					
696.12	Gray						
3	Very Stiff to Stiff CL			3			
6		3.5	17.4	6			
6		P		6			
8				8			
6		2.0	11.1	8			
8		P					
3				3			
5		1.8	17.0	5			
8		P		8			
-20							

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
 The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

BBS, from 137 (Rev. 8-99)



USER NAME =	DESIGNED - AM	REVISED
	CHECKED - DD	REVISED
PLOT SCALE =	DRAWN - AM	REVISED
PLOT DATE = 2/8/2021	CHECKED - MCC	REVISED

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

SOIL BORING LOGS
 BOX CULVERT STRUCTURE #1

SHEET NO. SB-05 OF SB-05 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	11-F3001-01-BT	WILL	234	103
			CONTRACT NO. 61G74	
ILLINOIS FED. AID PROJECT				

Bench Mark: Tower; Bernsten top security GPS 3-dimensional rod monument, on the right (east) shoulder of Gougar rd. at N:1,800,975.0800 E:1,073,316.1058, Elev. 754.44 (NAVD 88).

Existing Structure: None.

INDEX OF SHEETS

- SC-01 General Plan
- SC-02 General Data
- SC-03 Precast Concrete Box Culvert Apron End Section Details
- SC-04 Bicycle Railing
- SC-05 Soil Boring Logs



Demir Dabezic

DEMIR DABEZIC S.E.
EXPIRES: NOVEMBER 30, 2022

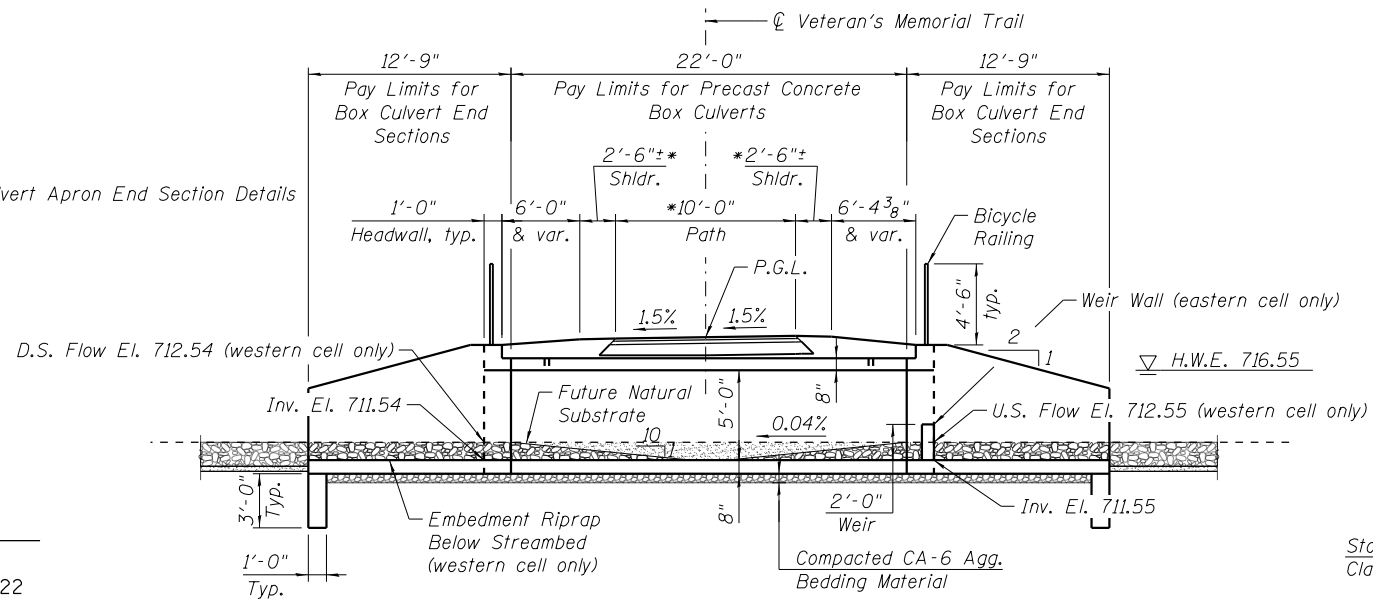
I certify that to the best of my knowledge, information, and belief, the structure and design is structurally adequate for the design loading shown on the plans. The design is an economical one for the style of structure and complies with requirements of the current "AASHTO LRFD Bridge Design Specifications".

CURVE DATA

Prop. Curve 31
P.I. Sta. = 204+36.87
 $\Delta = 32^\circ 19' 45''$ (RT)
D = 57'17" 45"
R = 100.00'
T = 28.99'
L = 56.43'
E = 4.12"
P.C. Sta. = 204+07.88
P.T. Sta. = 204+64.31

LEGEND

- Soil Boring Location
- Existing Buried Electric Line
- Existing Overhead Lines



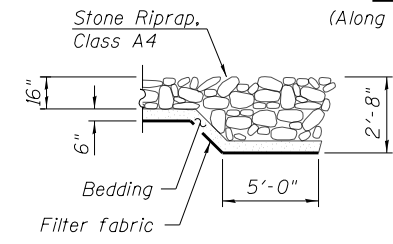
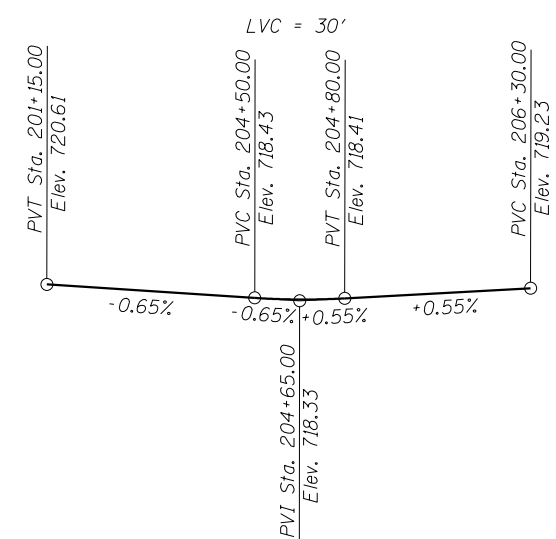
LONGITUDINAL SECTION

(Dimensions shown are measured along ϕ Culvert unless otherwise noted) (Looking Upstation)

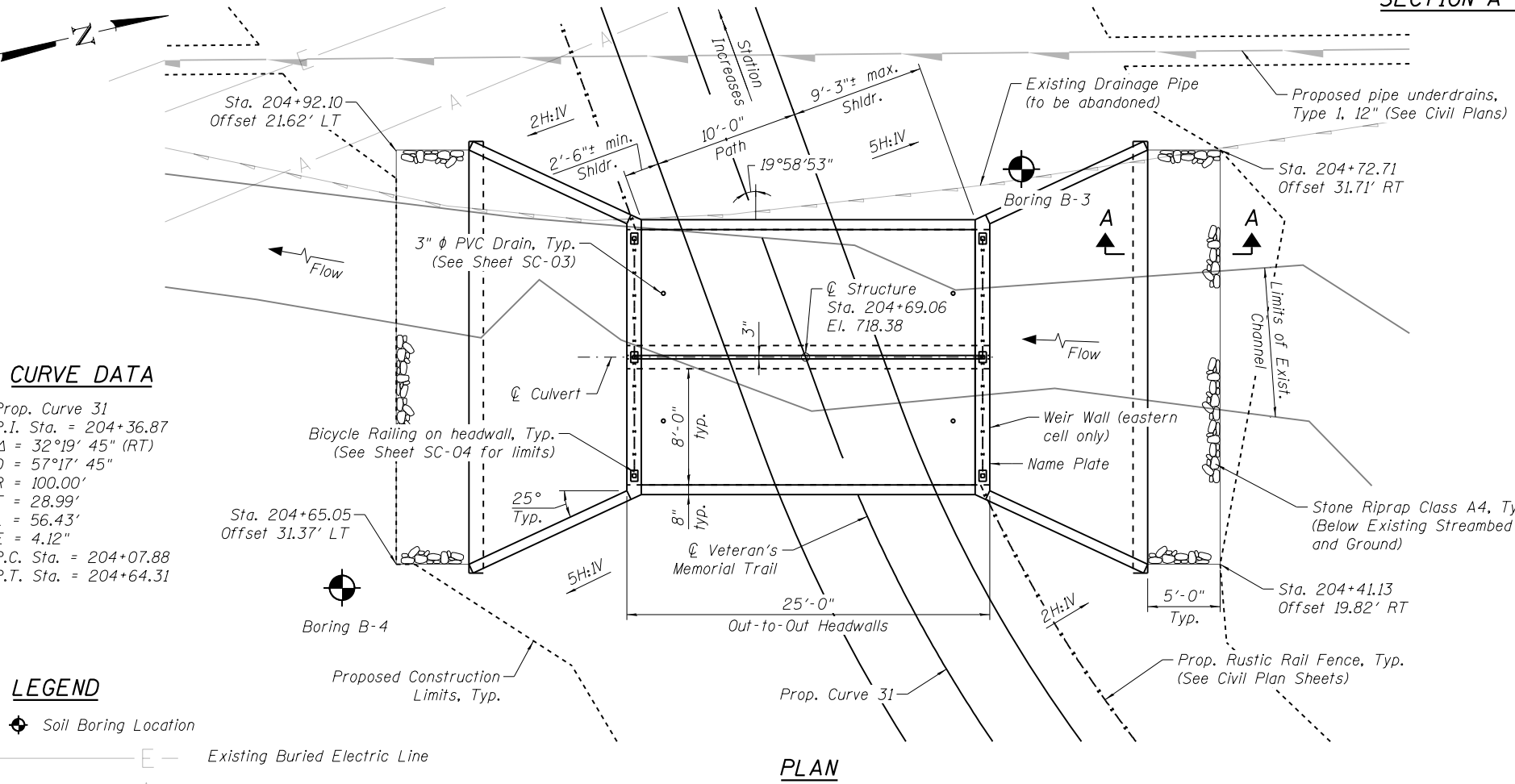
* Measured perpendicular to ϕ Veteran's Memorial Trail

PROFILE GRADE

(Along ϕ Veterans Memorial Trail)



SECTION A-A



PLAN

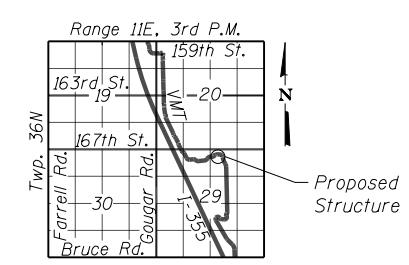
BILL OF MATERIAL

ITEM	UNIT	TOTAL
Porous Granular Embankment	Cu Yd	24
Stone Riprap, Class A4	Sq Yd	138
Filter Fabric	Sq Yd	32
Structure Excavation	Cu Yd	154
Removal And Disposal Of Unsuitable Material For Structures	Cu Yd	23
Concrete Structures	Cu Yd	1
Reinforcement Bars, Epoxy Coated	Pound	30
Bicycle Railing	Foot	36
Name Plates	Each	1
Box Culvert End Sections, Culvert No. 2	Each	2
Precast Concrete Box Culverts 8' X 5'	Foot	44
Granular Backfill For Structures	Cu Yd	23
Geocomposite Wall Drain	Sq Yd	62
Membrane Waterproofing System For Buried Structures	Sq Yd	57

WATERWAY INFORMATION

Drainage Area = 0.6 sq. mi.

Flood	Freq. Yr.	Q C.F.S.	Opening Sq. Ft.		Nat. H.W.E.	Head - Ft.		Headwater El.	
			Exist.	Prop.		Exist.	Prop.	Exist.	Prop.
Design	10	125	N/A	---	716.55	N/A	0.1	N/A	716.66
Base	50	213	N/A	---		N/A	0.3	N/A	716.88
Overtopping	100	259	N/A	---		N/A	0.5	N/A	717.03
Max. Calc.	500	---		---			---		---



LOCATION SKETCH

DESIGN SPECIFICATIONS

2017 IDOT Culvert Manual
2017 AASHTO LRFD Bridge Design Specifications, 8th Edition

HL-93 LOADING

DESIGN STRESSES

PRECAST UNITS
 $f'_c = 5,000$ psi
 $f_y = 60,000$ psi (Reinforcement Bars)
 $f_y = 65,000$ psi (Welded Wire Reinforcement)

FIELD UNITS
 $f'_c = 3,500$ psi
 $f_y = 60,000$ psi (Reinforcement Bars)
 $f_y = 65,000$ psi (Welded Wire Reinforcement)

SEISMIC DATA

Seismic Performance Zone (SPZ) = 1
Design Spectral Acceleration at 1.0 sec. (S_{D1}) = 0.095g
Design Spectral Acceleration at 0.2 sec. (S_{D5}) = 0.167g
Soil Site Class = D

GENERAL PLAN
VETERANS MEMORIAL TRAIL
OVER FRACTION RUN CREEK
SECTION 11-F3001-01-BT
WILL COUNTY
STA. 204+69.06



USER NAME =	DESIGNED - AM	REVISED
	CHECKED - DD	REVISED
PLOT SCALE =	DRAWN - AM	REVISED
PLOT DATE = 2/8/2021	CHECKED - MCC	REVISED

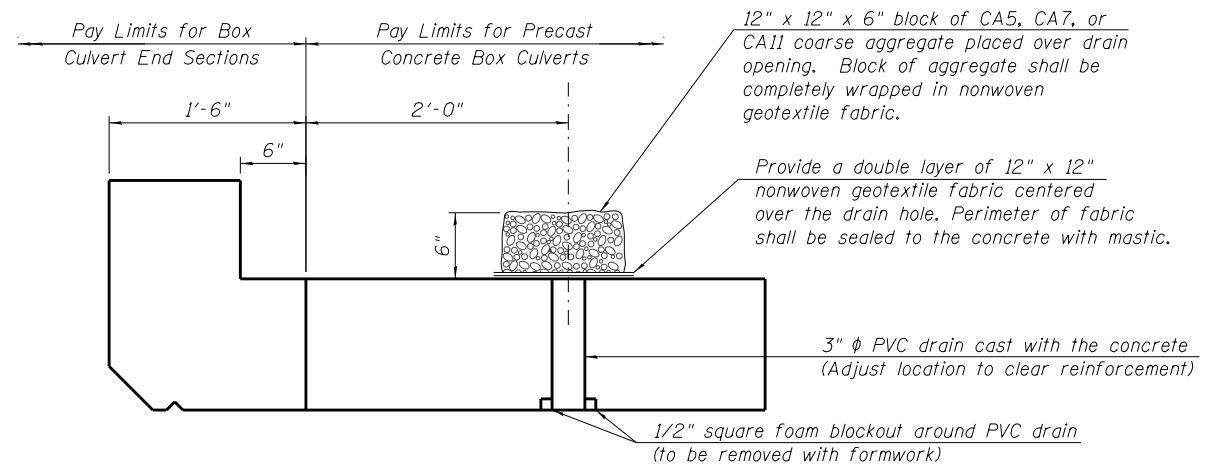
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SHEET NO. SC-01 OF SC-05 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	11-F3001-01-BT	WILL	234	104
CONTRACT NO. 61G74			ILLINOIS FED. AID PROJECT	

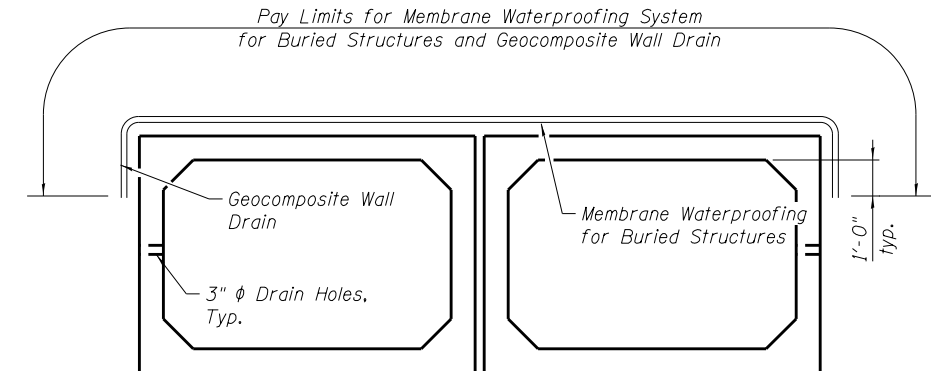
GENERAL NOTES

- The design fill height for this box culvert is 1.0 ft. The precast box culvert sections shall conform to the requirements of ASTM C 1577.
- Contractor is responsible for waterway diversion and dewatering of the work area during box culvert construction. See Special Provision, In-Stream Work.
- Undercut shall be paid for at the contract unit price per cubic yard as Removal and Disposal of Unsuitable Material for Structures. CA-6 bedding stone will be paid for at the contract unit price per cubic yard as Granular Backfill for Structures.
- Drain holes shall be provided on exterior culvert walls for each precast box segment with a clear rise greater than 3 ft. The drain hole shall be located within 1/3 of the clear rise of the box culvert, shall not intercept the haunch, and shall conform to the requirements of Article 503.11 of the Standard Specifications.
- Nonwoven geotextile fabric shall conform to the requirements of Art. 1080.01 of the Standard Specifications. The minimum weight of the fabric shall be 6 ounces per square yard. Precast concrete box culverts and box culvert end sections shall be backfilled with Porous Granular Embankment below the top of of the box culvert extending to a vertical plane 2 ft from the exterior sides of the culvert and end sections, and not closer than 2 ft from the face of the embankment.
- Box Culvert End Sections shall be constructed according to the requirements of Section 540 of the Standard Specifications except as modified herein. End sections will be paid for at the contract unit price per each for Box Culvert End Sections.
- Box section dimensions, materials, and reinforcement details for Box Culvert End Sections shall be according to the requirements for ASTM C 1577 as required for the design of the portion of the culvert within the limits of Precast Concrete Box Culverts except as modified herein.
- The details contained herein are for constructing the end sections using cast-in-place (CIP) construction. The Contractor may propose to furnish the end sections using precast construction methods and the end sections may consist of multiple precast concrete segments. The Contractor shall be responsible for determining all details associated with the precast option including any strengthening of stiffening provisions necessary for handling the precast segments. Conceptual details followed by shop drawings and design calculations sealed by an Illinois Licensed Structural Engineer shall be submitted to the Engineer for review and approval. Elements of the precast option shall at a minimum result in the same wingwall geometry and not have a thickness less than that detailed herein. The option to construct the end sections using precast construction methods shall be at no charge.
- Shop drawings that detail slab thickness and reinforcement layout for the Box Culvert End Sections shall be provided to the Engineer for review and approval. Reinforcement bars not detailed herein shall be detailed with a clear distance at the end of the reinforcement not less than 1/2" nor more than 2".
- The contractor may use reinforcement bars in lieu of welded wire reinforcement (WWR). Reinforcement bars shall be limited to the sizes of #3 through #5 bars, a maximum spacing of the lesser of 8" or the member thickness, and shall result in an area of reinforcement equal to or greater than that provided by the WWR. Minimum lap lengths detailed herein are applicable to WWR and reinforcement bars.
- Reinforcement (circumferential and longitudinal) in the precast concrete box culvert segments immediately adjacent to the box culvert end sections that is being lapped with the end section reinforcement shall not be less than that required by ASTM C 1577 for the design fill height or the reinforcement detailed for the end section, whichever is greater.
- One drain hole shall be provided in each wingwall for end sections of box culverts having an opening with a clear rise greater than 3 ft. The drain hole shall be located within 1/3 of the clear rise of the box culvert and shall conform to the requirements of Article 503.11 of the Standard Specifications.



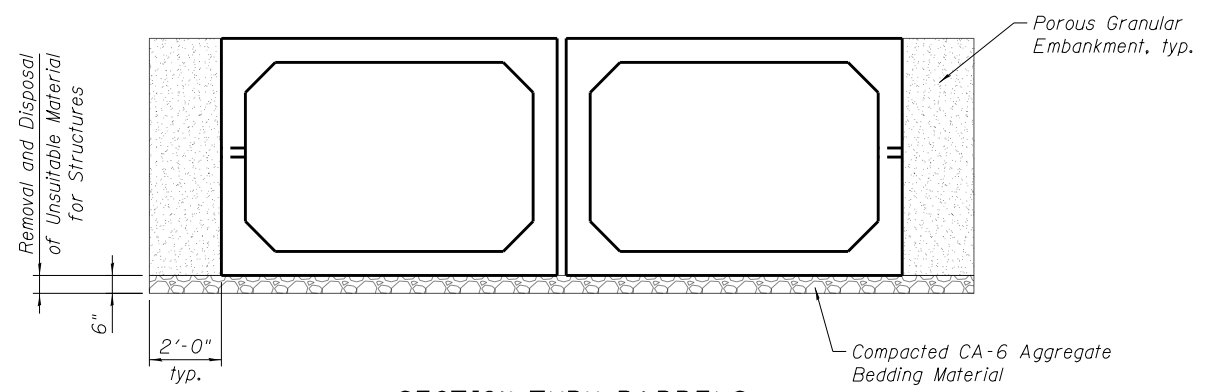
DRAIN DETAIL

(All costs associated with furnishing and constructing the above drain detail will not be measured for payment but shall be included in the contract unit price for the associated work.)



MEMBRANE WATERPROOFING AND GEOCOMPOSITE WALL DRAIN DETAIL

Note: Geocomposite Wall Drain shall be according to Section 591 of the Standard Specifications, except that concrete nails shall not be used in areas where it overlaps Membrane Waterproofing System for Buried Structures.



SECTION THRU BARRELS

FRACTION RUN CREEK
BUILT 20__ BY
FOREST PRESERVE DISTRICT
OF WILL COUNTY
SEC. 11-F3001-01-BT
LOADING HL-93

NAME PLATE
See Std. 515001



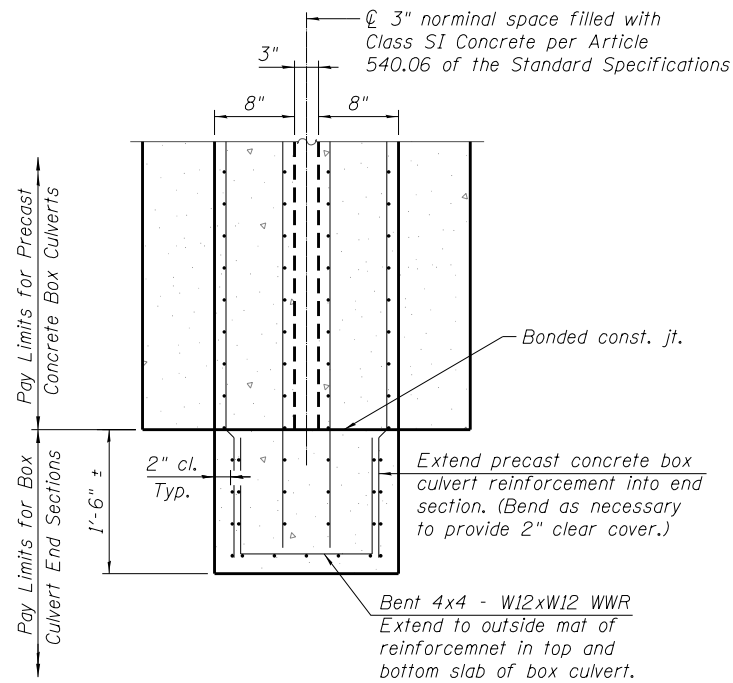
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PLOT DATE = 2/8/2021	CHECKED - MCC	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

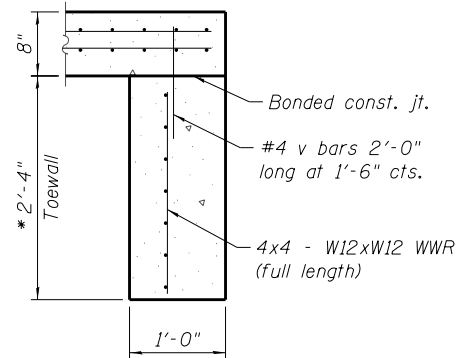
GENERAL DATA
BOX CULVERT STRUCTURE #2

SHEET NO. SC-02 OF SC-05 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	11-F3001-01-BT	WILL	234	105
			CONTRACT NO. 61G74	
ILLINOIS FED. AID PROJECT				



SECTION F-F

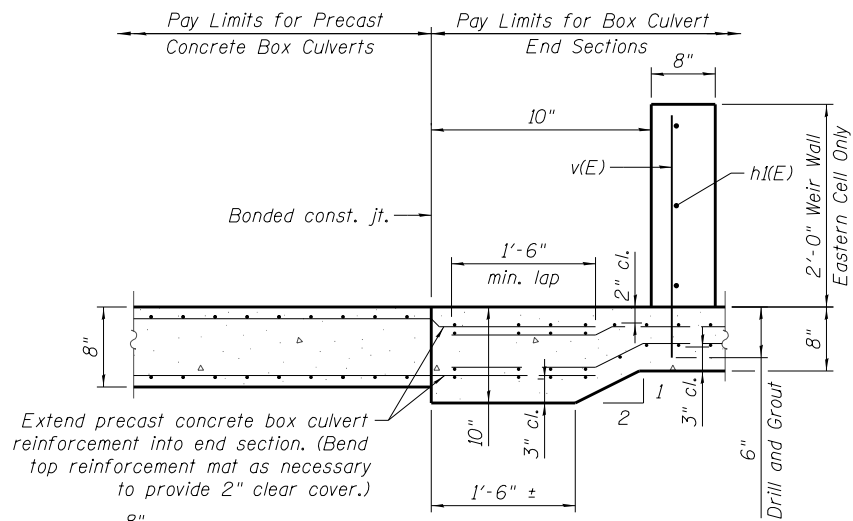


SECTION D-D

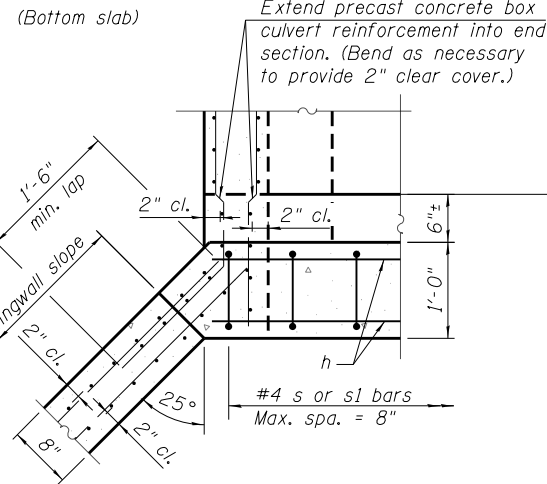
* The Contractor shall furnish a precast toewall. The Contractor shall be responsible for the strength and stability of the precast toewall during handling. Additional lifting points may be required depending upon the length of the toewall or the Contractor may need to modify the design of the toewall for the proposed handling method.

TOEWALL CONSTRUCTION SEQUENCE

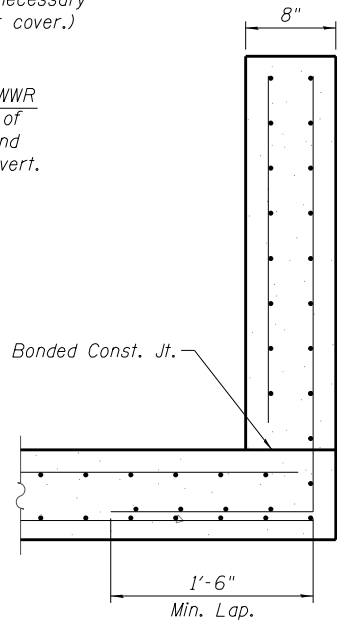
1. Perform excavation and construct toewall.
2. Backfill according to the applicable paragraphs of Article 502.10 of the Standard Specifications and place bedding for precast box culvert end sections.
3. Set precast box culvert end section.
4. Drill and epoxy grout reinforcement in toewall in accordance with Section 584 of the Standard Specifications.
5. Pressure grout voids using non-shrink grout conforming to Section 1024 of the Standard Specifications.



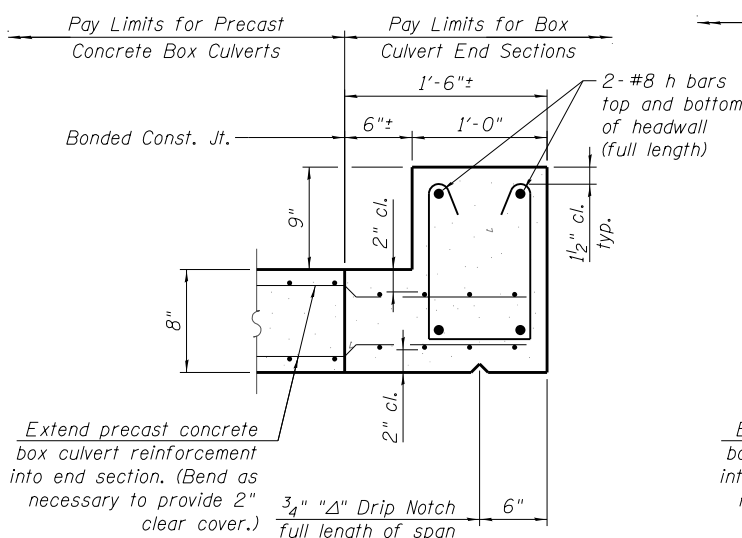
SECTION B-B



SECTION E-E

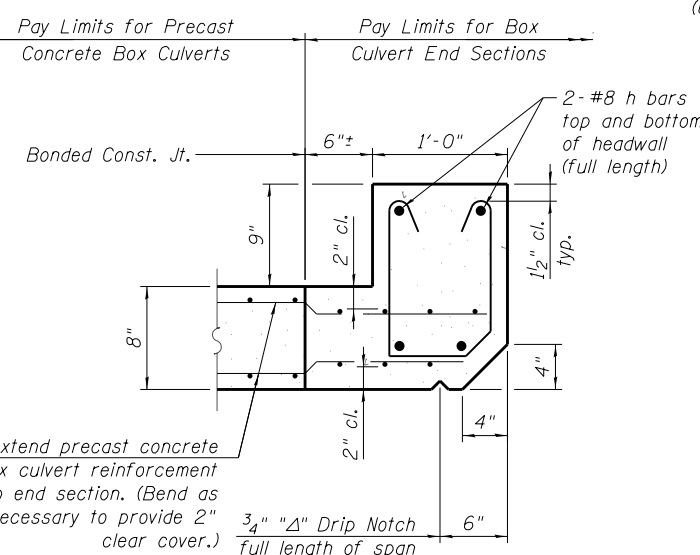


SECTION C-C



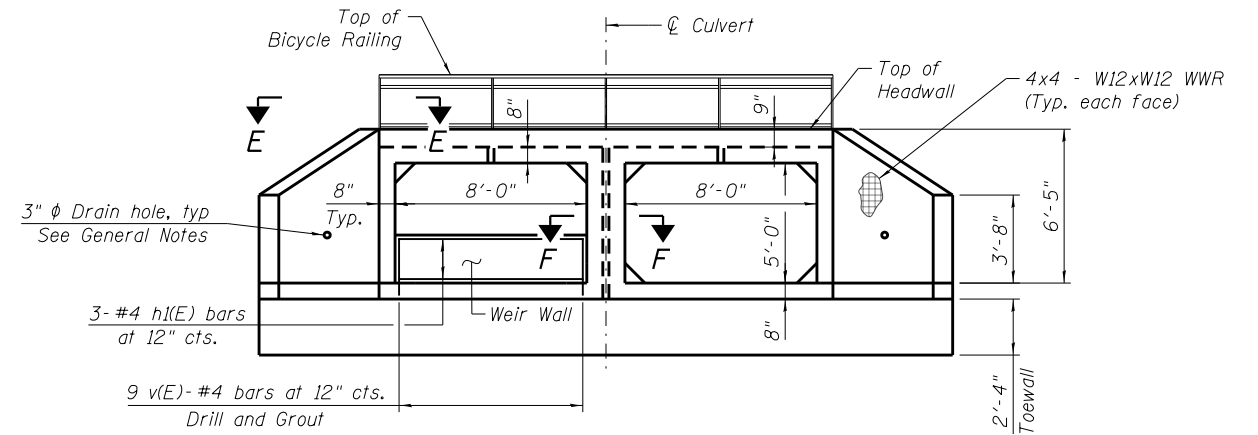
SECTION B-B

(Top slab at downstream end)

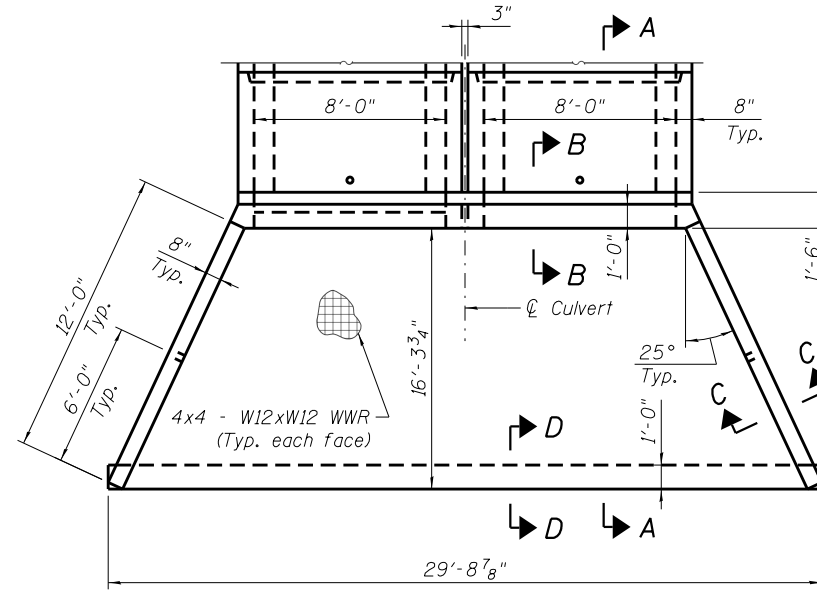


SECTION B-B

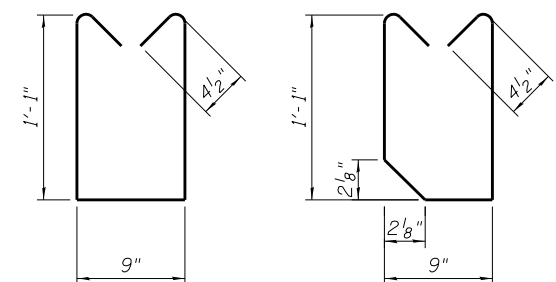
(Top slab at upstream end)



END VIEW
(Looking Downstream)



PLAN
(Upstream End)



BAR s

BAR sl

WEIR WALL BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h(E)	3	#4	7'-8"	—
v(E)	9	#4	2'-4"	—
Reinforcement Bars, Epoxy Coated		Pound	30	
Concrete Structures		Cu. Yd.	1	



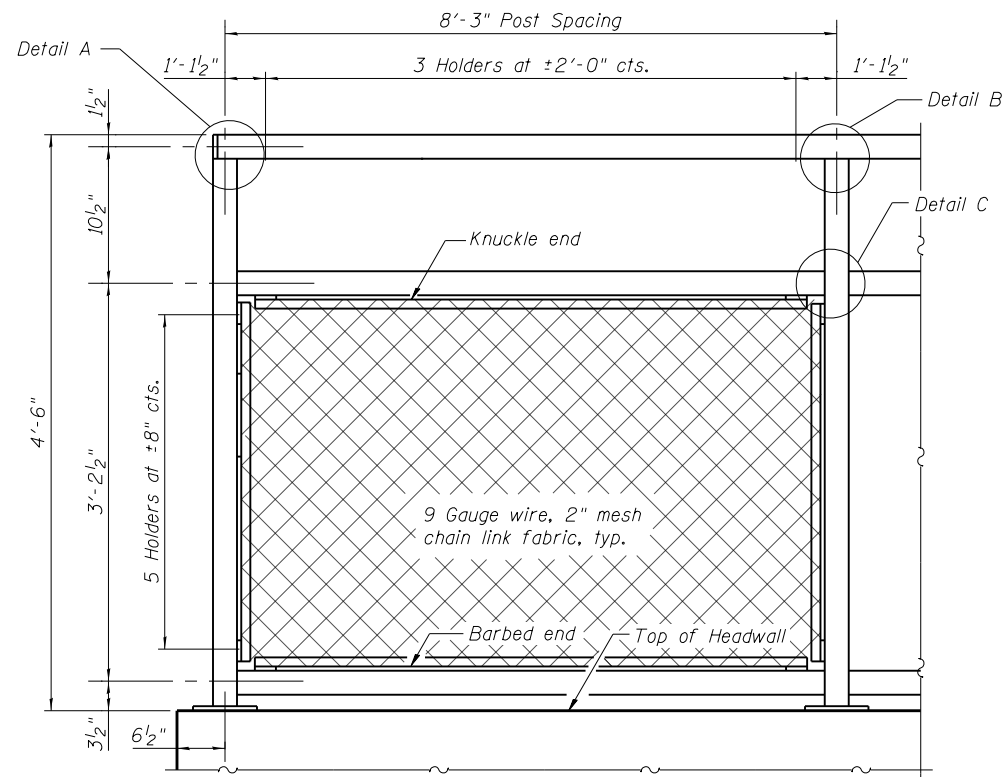
USER NAME =	DESIGNED - AM	REVISED
	CHECKED - DD	REVISED
PLOT SCALE =	DRAWN - AM	REVISED
PLOT DATE = 2/8/2021	CHECKED - MCC	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

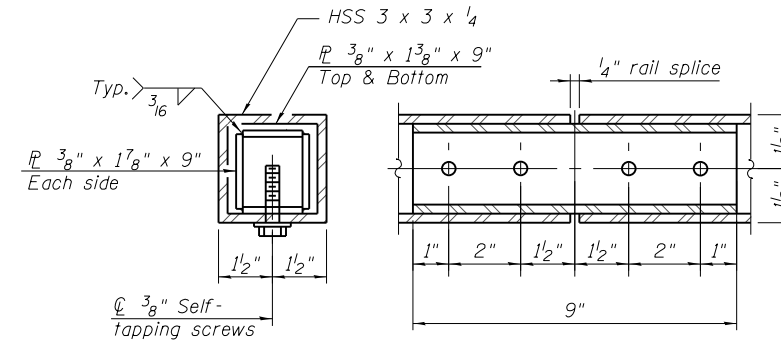
PRECAST CONCRETE BOX CULVERT APRON END
SECTION DETAILS - BOX CULVERT STRUCTURE #2

SHEET NO. SC-03 OF SC-05 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	11-F3001-01-BT	WILL	234	106
			CONTRACT NO. 61G74	
ILLINOIS FED. AID PROJECT				

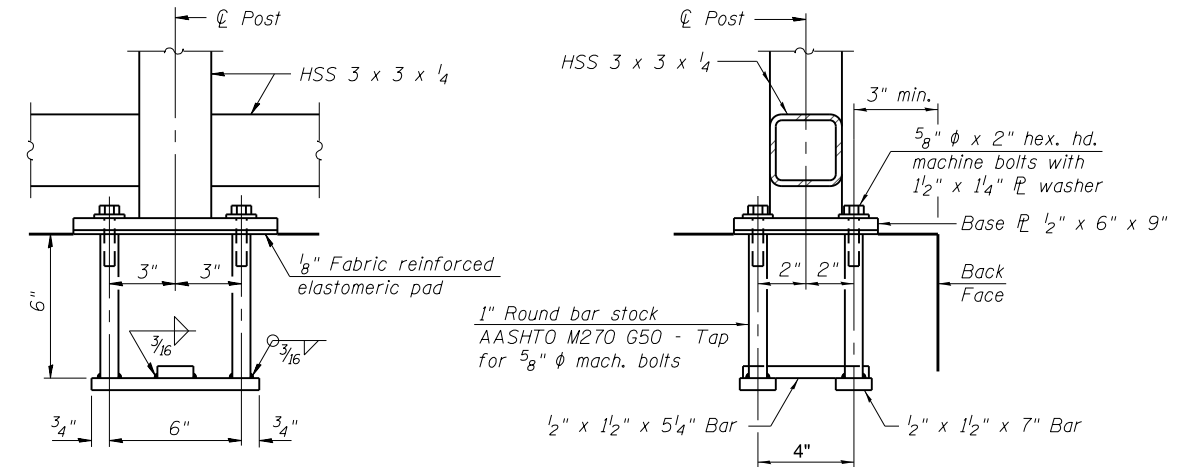


BICYCLE RAILING ELEVATION



RAIL SPLICE

All structural steel tubing, post and railing, for parapet railing shall be CVN tested according to 1006.34(b) of the Standard Specifications. CVN testing may be omitted for the Bicycle Railing.



ANCHOR BOLT DETAILS

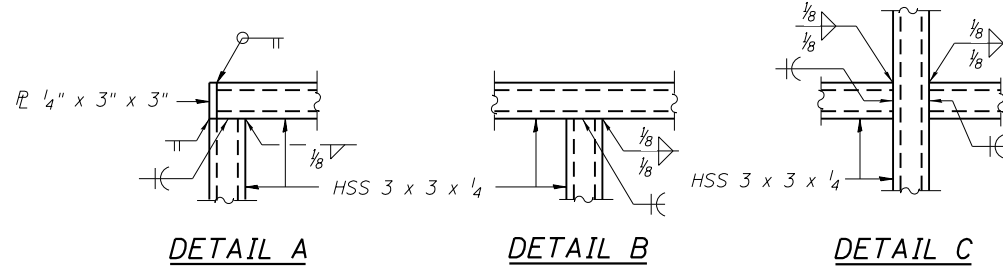
In lieu of the cast-in-place anchor device shown, the Contractor has the option of drilling and setting 5/8" ϕ anchor rods according to Article 509.06 of the Standard Specifications. Embedment shall be according to the manufacturer's specifications.

NOTES:

- All steel rail elements shall be galvanized according to article 509.05 of the Standard Specifications

BILL OF MATERIAL

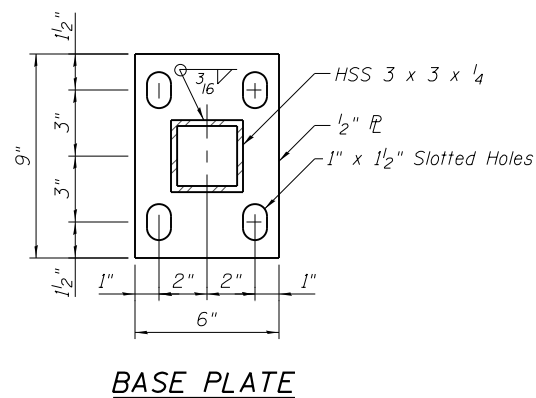
Item	Unit	Quantity
Bicycle Railing	Foot	36



DETAIL A

DETAIL B

DETAIL C



BASE PLATE



USER NAME =	DESIGNED - AM	REVISED
	CHECKED - DD	REVISED
PLOT SCALE =	DRAWN - AM	REVISED
PLOT DATE = 2/8/2021	CHECKED - MCC	REVISED

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**BICYCLE RAILING
BOX CULVERT STRUCTURE #2**

SHEET NO. SC-04 OF SC-05 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	11-F3001-01-BT	WILL	234	107
			CONTRACT NO. 61G74	
ILLINOIS FED. AID PROJECT				

SOIL BORING LOG

Date 8/27/20

ROUTE _____ DESCRIPTION Proposed Culvert Location # 2 LOGGED BY SYED

SECTION 11-F3001-01-BT LOCATION Northing: 1.791.046.80 Easting: 1.076.059.74, SEC., TWP., RNG.

COUNTY WILL DRILLING METHOD Hollow Stem Auger HAMMER TYPE Automatic

STRUCT. NO.	DEPTH	BLOW	UCS	M O I S T	Surface Water Elev.	DEPTH	BLOW	UCS	M O I S T
Station					ft				
BORING NO. B-3					ft				
Ground Surface Elev. 714.77	ft	(ft)	(/6")	(tsf)	(%)	ft	(ft)	(/6")	(tsf)
					None	ft			
					Upon Completion	ft			
					After Hrs.	ft			

12" TOPSOIL	DEPTH	BLOW	UCS	M O I S T	Soil Description	DEPTH	BLOW	UCS	M O I S T
713.77					LEAN CLAY, trace Sand				
		6			Gray				
		4	1.8	16.1	Very Stiff to Stiff		2		
		5	P		CL (continued)		3	1.8	17.4
							5	P	
		2					2		
		2	1.8	19.3			4	2.0	16.5
		2	P				5	P	
709.77	-5				LEAN CLAY, trace Sand				
					Brown and Gray				
		2			Very Stiff				
		4	3.0	18.4	CL		4		
		6	P				6	1.3	17.9
							7	P	
		5					2		
		6	3.5	15.4			5	1.8	17.5
		9	P				7	P	
704.77	-10				LEAN CLAY, trace Sand				
					Gray				
		3			Very Stiff to Stiff				
		5	2.5	16.2	CL				
		7	P						
		3							
		5	3.3	15.6					
		7	P						
		3							
		5	2.8	14.6					
		7	P						
		3							
		4	2.0	17.4					
		6	P						

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)
BBS, from 137 (Rev. 8-99)

SOIL BORING LOG

Date 8/27/20

ROUTE _____ DESCRIPTION Proposed Culvert Location # 2 LOGGED BY SYED

SECTION 11-F3001-01-BT LOCATION Northing: 1.790.986.46 Easting: 1.076.069.35, SEC., TWP., RNG.

COUNTY WILL DRILLING METHOD Hollow Stem Auger HAMMER TYPE Automatic

STRUCT. NO.	DEPTH	BLOW	UCS	M O I S T	Surface Water Elev.	DEPTH	BLOW	UCS	M O I S T
Station					ft				
BORING NO. B-4					ft				
Ground Surface Elev. 715.33	ft	(ft)	(/6")	(tsf)	(%)	ft	(ft)	(/6")	(tsf)
					None	ft			
					Upon Completion	ft			
					After Hrs.	ft			

12" TOPSOIL	DEPTH	BLOW	UCS	M O I S T	Soil Description	DEPTH	BLOW	UCS	M O I S T
714.33					LEAN CLAY, trace Sand and Gravel, Gravelly at 28.5'				
		7			Gray				
		6	1.5	22.6	Very Stiff		3		
		5	P		CL		5	2.0	16.9
							7	P	
		2					3		
		2	2.0	17.3			3	2.5	16.6
		3	P				5	P	
		2					2		
		2	2.0	26.2			3	2.0	19.0
		3	P				5	P	
707.33					LEAN CLAY, trace Sand and Gravel				
		3			Brown and Gray				
		5	4.5	16.0	Hard to Very Stiff		10		
		7	P		CL		7		7.1
		7	P				13		
		4							
		5	3.5	16.0					
		7	P						
		3							
		4	3.0	15.9					
		7	P						
		3							
		5	3.5	15.3					
		8	P						
		3							
		5	3.5	15.5					
		7	P						

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)
BBS, from 137 (Rev. 8-99)



USER NAME =	DESIGNED - AM	REVISED
CHECKED - DD	REVISED	
PLOT SCALE =	DRAWN - AM	REVISED
PLOT DATE = 2/8/2021	CHECKED - MCC	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOIL BORING LOGS
BOX CULVERT STRUCTURE #2

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	11-F3001-01-BT	WILL	234	108
			CONTRACT NO. 61G74	
ILLINOIS FED. AID PROJECT				

Bench Mark: Field; Bernsten Top Security GPS 3-Dimensional Rod Monument on the left (north) side of 167th street at N:1,791,187.6534 E:1,705,682.0044, Elev. 727.03. (NAVD 88).

Existing Structure: None.

167th Street to be closed and traffic detoured during construction of the proposed tunnel.

INDEX OF SHEETS

- SD-01 General Plan
- SD-02 General Notes & Details
- SD-03 Three-Sided Structure Details
- SD-04 Precast Wingwall Details
- SD-05 Soil Boring Logs



Demir Dabezic

DEMIR DABEZIC S.E.
EXPIRES: NOVEMBER 30, 2022

I certify that to the best of my knowledge, information, and belief, the structure and design is structurally adequate for the design loading shown on the plans. The design is an economical one for the style of structure and complies with requirements of the current "AASHTO LRFD Bridge Design Specifications".

LOADING HL - 93

Allow 50#/sq ft for future wearing surface

DESIGN SPECIFICATIONS

2017 AASHTO LRFD Bridge Design Specifications, 8th Edition

DESIGN STRESSES

PRECAST UNITS

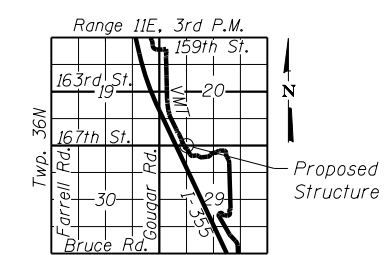
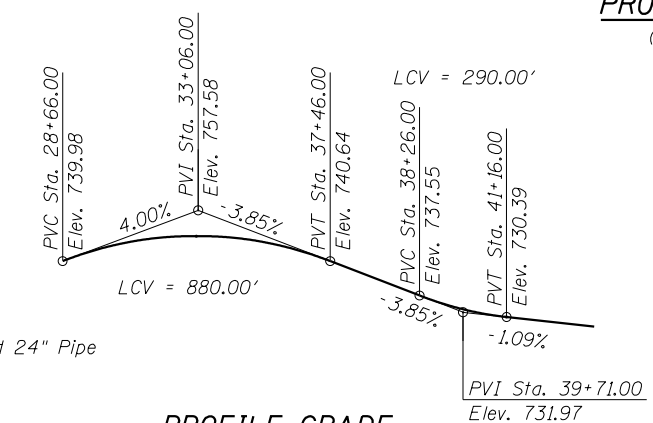
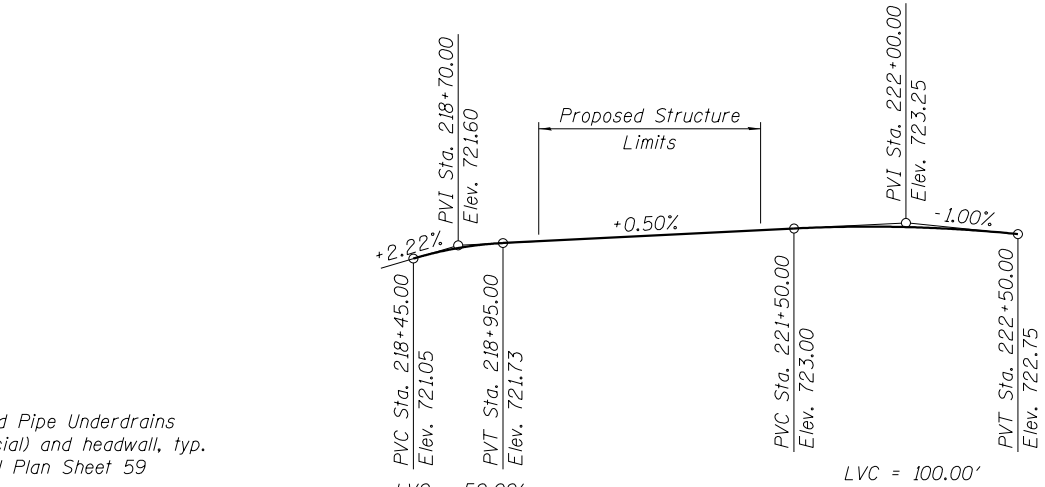
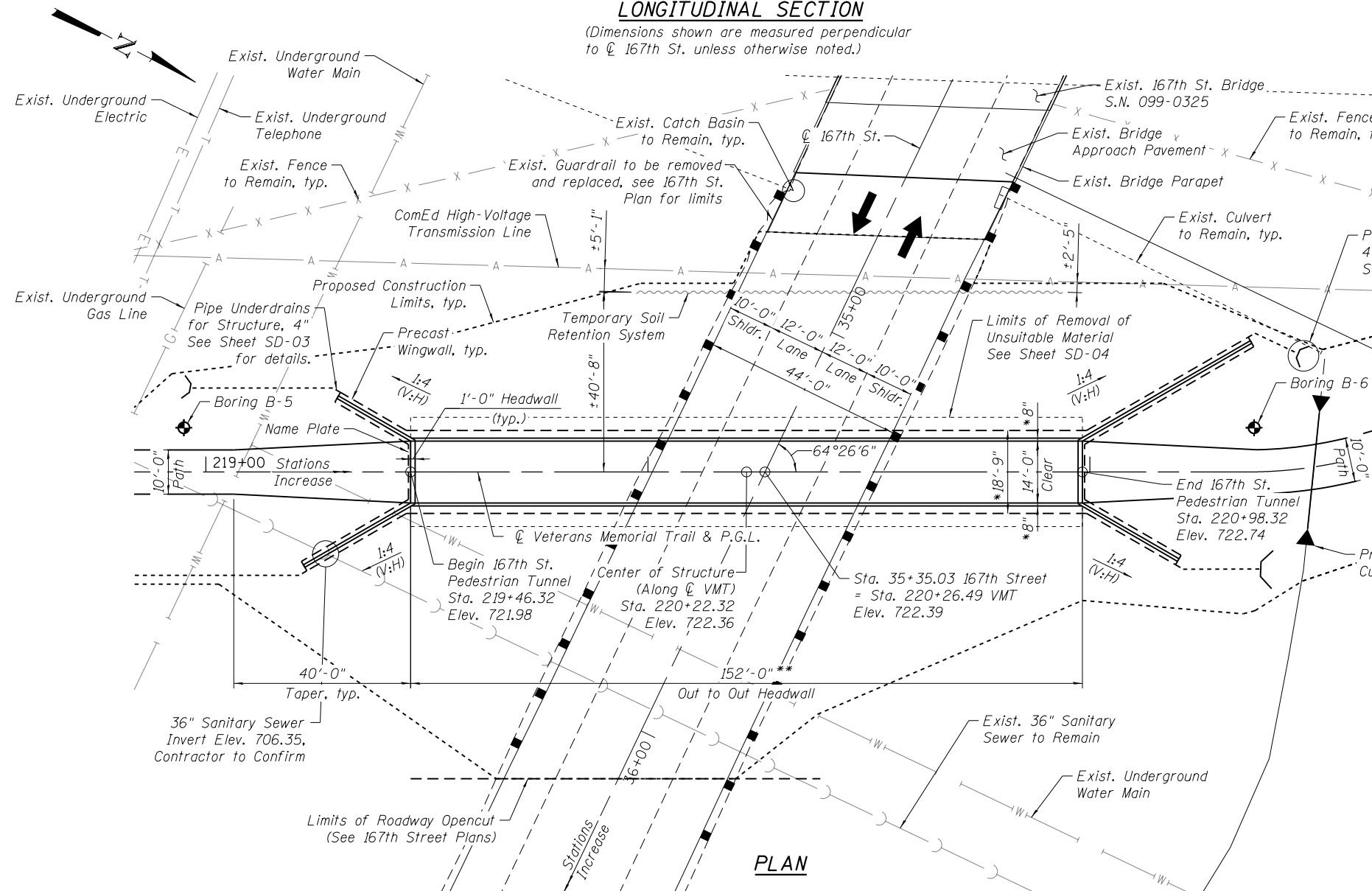
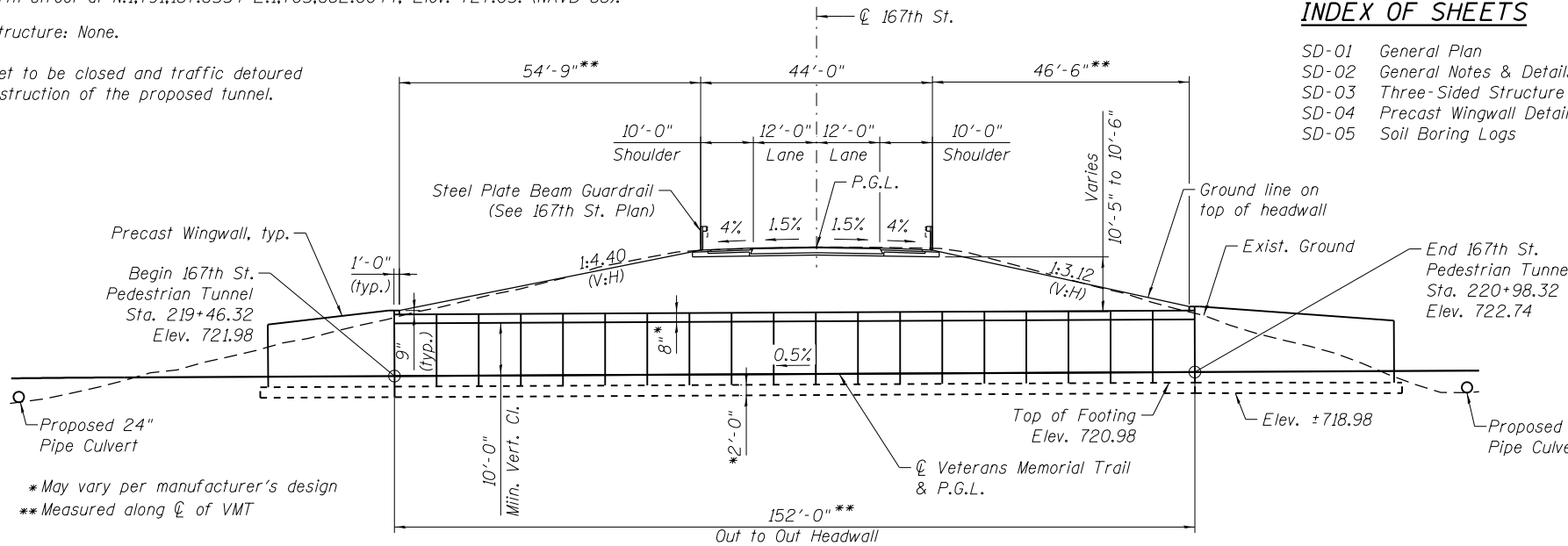
$f'_c = 5,000$ psi
 $f_y = 60,000$ psi (Reinforcement Bars)
 $f_y = 60,000$ psi (Welded Wire Fabric)

FIELD UNITS

$f_y = 50,000$ psi (M270, Grade 50)

SEISMIC DATA

Seismic Performance Zone (SPZ) = 1
Design Spectral Acceleration at 1.0 sec. (S_{M1}) = 0.095g
Design Spectral Acceleration at 0.2 sec. (S_{M5}) = 0.167g
Soil Site Class = D



LEGEND

- Soil Boring location
- Existing guardrail
- Proposed guardrail

GENERAL PLAN
167th ST OVER VETERANS MEMORIAL TRAIL
FAU ROUTE 291
SECTION 11-F3001-01-BT
WILL COUNTY
STA. 220+22.32
STRUCTURE NO. 099-9935



USER NAME =	DESIGNED - AM	REVISED
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SHEET NO. SD-01 OF SD-05 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	11-F3001-01-BT	WILL	234	109
CONTRACT NO. 61G74			ILLINOIS FED. AID PROJECT	

GENERAL NOTES

1. This work consists of the fabrication and erection of a Three-Sided Precast Concrete Structure with a clear width of 14' as shown in these plans. See Special Provisions.
2. If the Engineer determines that a line outage is required to safely work within the vicinity of ComEd's existing overhead transmission facilities, a minimum 16-week advanced notification to ComEd is required. Outage dates cannot be guaranteed due to system concerns and/or weather conditions. Outages on overhead transmission facilities will not be permitted between May 15 and September 15.
3. Under no circumstances shall truck beds be raised under ComEd's electric transmission lines.
4. The foundation design is based on the following factored reactions applied at the top of the base slab:

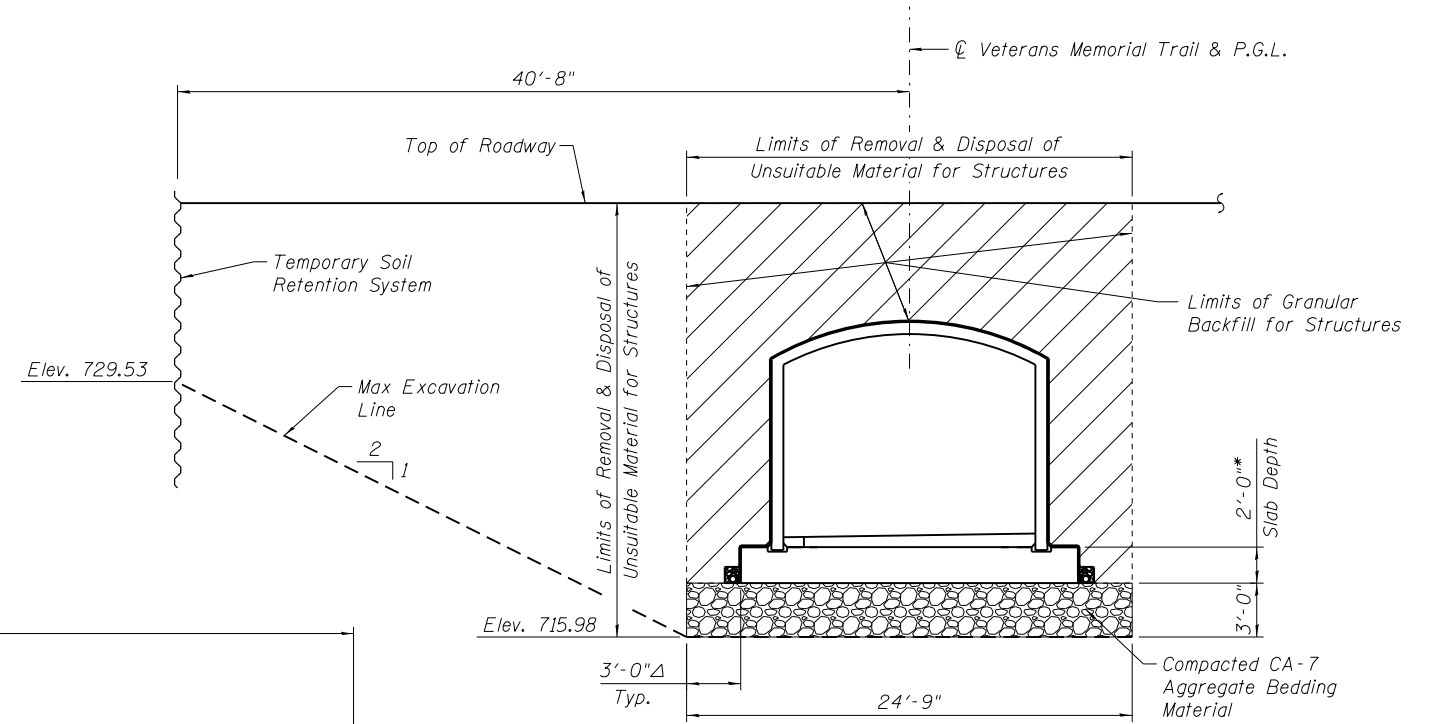
North & South footings: 32.9 kips/ft. (vertical), 7.0 kips/ft. (horiz.)
5. The loadings shown above are for the final condition with all backfill and roadway in place. The Contractor shall verify that the selected structure meets these design parameters. If the design parameters are exceeded, a complete foundation design with calculations, details, and the required seals shall be submitted for review and approval.
6. Factored bearing capacity of soil: 2.5 ksf.
7. Undercut shall be paid for at the contract unit price per cubic yard as Removal and Disposal of Unsuitable Material for Structures. CA-7 bedding stone will be paid for at the contract unit price per cubic yard as Granular Backfill for Structures.
8. Calculated length of Three-Sided Structure = 152'-0".
9. For Steel Plate Beam Guardrail layout and quantity, see 167th Street Plan and Profile sheet.

VETERANS MEMORIAL TRAIL
BUILT 20__ BY
FOREST PRESERVE DISTRICT
OF WILL COUNTY
SEC. 11-F3001-01-BT
FAU RT. 291 STA. 35+35.03
LOADING HL-93
STRUCTURE NO. 099-9935

NAME PLATE
See Std. 515001

TOTAL BILL OF MATERIAL

ITEM	UNIT	TOTAL
Porous Granular Embankment	Cu Yd	115
Subbase Granular Material, Type B	Cu Yd	35
Portland Cement Concrete Sidewalk 6 Inch	Sq Ft	1,954
Removal And Disposal Of Unsuitable Material For Structures	Cu Yd	3,789
Name Plates	Each	1
Temporary Soil Retention System	Sq Ft	1,273
Granular Backfill For Structures	Cu Yd	2,011
Geocomposite Wall Drain	Sq Yd	1,153
Concrete Gutter, Type B	Foot	152
Membrane Waterproofing System For Buried Structures	Sq Yd	407
Three-Sided Precast Concrete Structures (Special) 14Ft	Foot	152
Pipe Underdrains For Structures 4"	Foot	429



SECTION THRU STRUCTURE

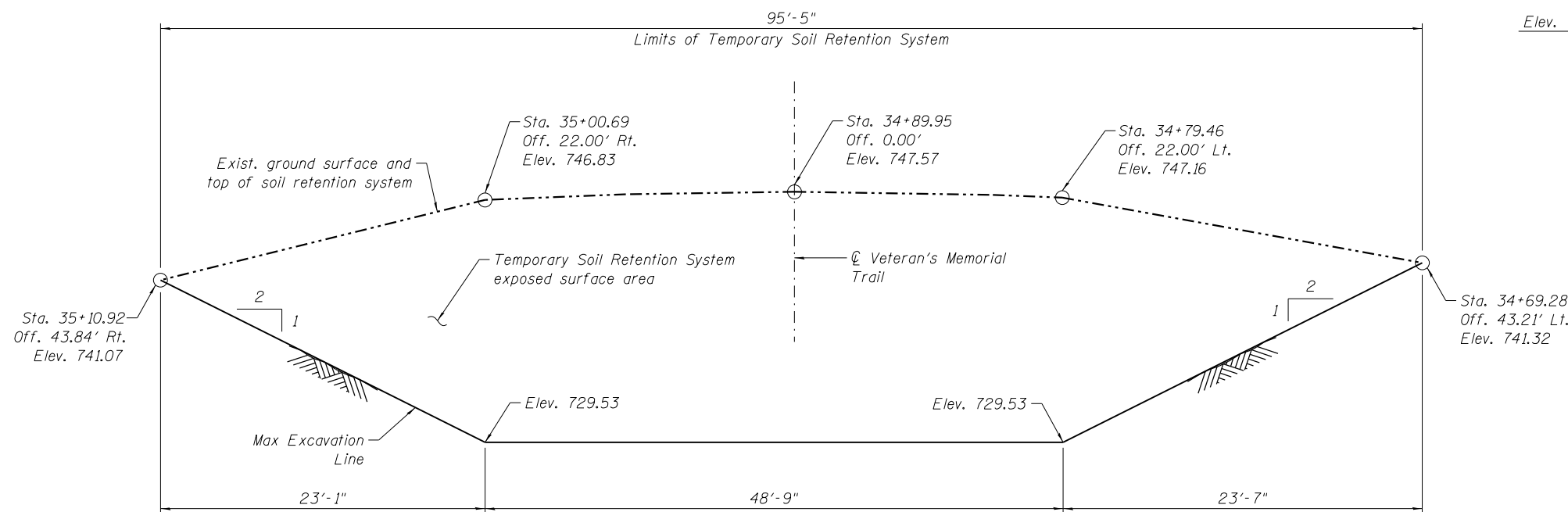
(Looking North)

Δ Structural Excavation horizontal dimensions beyond vertical planes 3'-0" from the outside edge of the base slab shall not be measured for payment but shall be considered included in the cost of Structure Excavation.

* See Note 1

NOTES:

1. Three-Sided Precast Concrete Unit details and geometry may vary per selected manufacturer's design. See Special Provisions.



TEMPORARY SOIL RETENTION SYSTEM

(Looking West)

(All Stations and Offsets are along CL 167th St.)



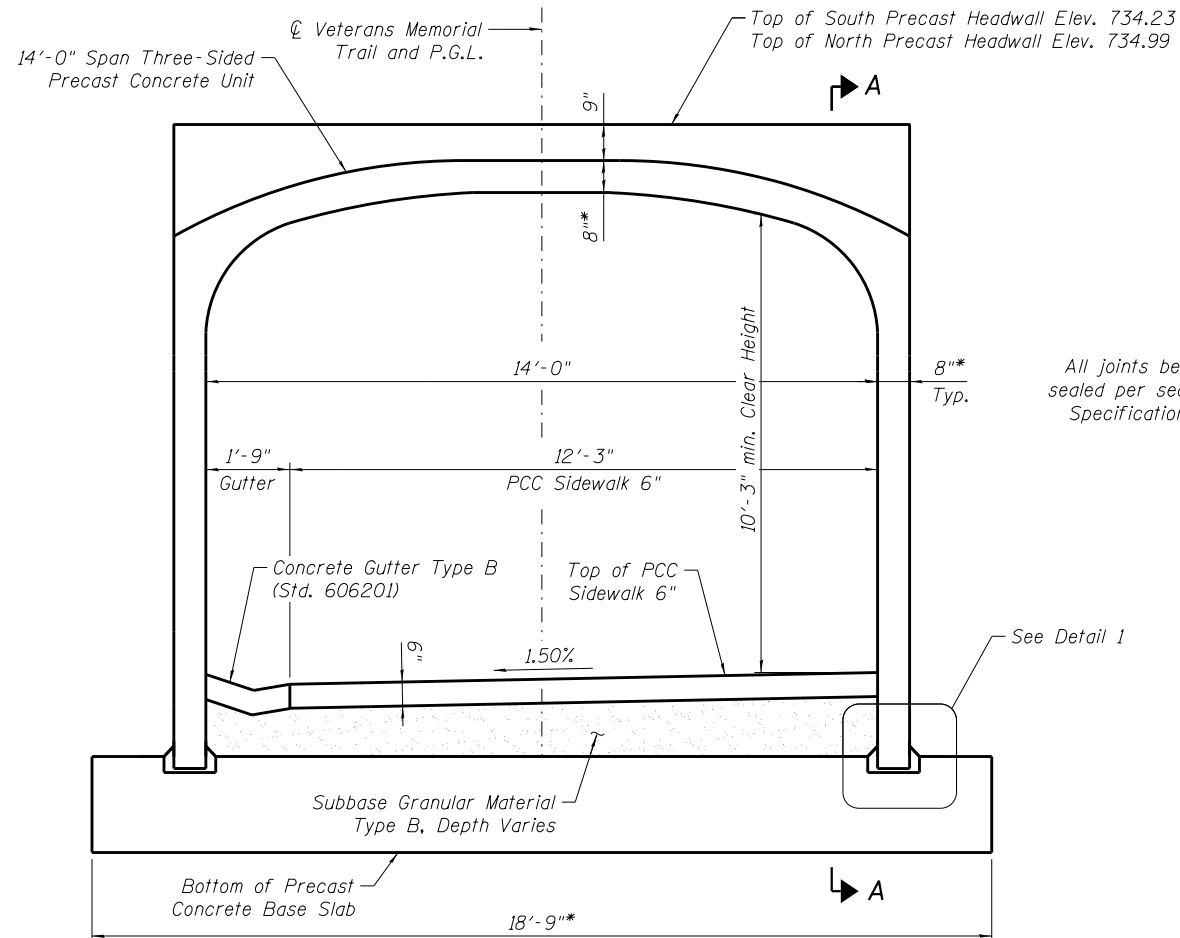
USER NAME =	DESIGNED - AM	REVISED
	CHECKED - DD	REVISED
PLOT SCALE =	DRAWN - AM	REVISED
PLOT DATE = 2/8/2021	CHECKED - MCC	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL NOTES & DETAILS
STRUCTURE NO. 099-9935

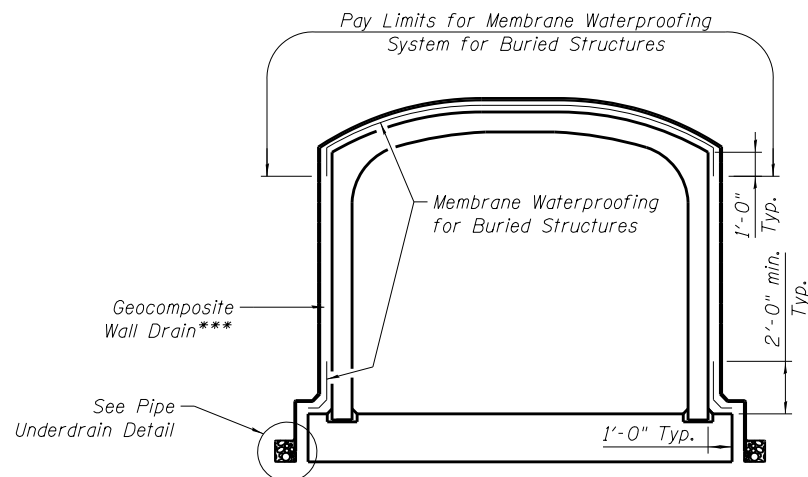
SHEET NO. SD-02 OF SD-05 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	11-F3001-01-BT	WILL	234	110
			CONTRACT NO. 61G74	
ILLINOIS FED. AID PROJECT				



THREE-SIDED STRUCTURE END ELEVATION

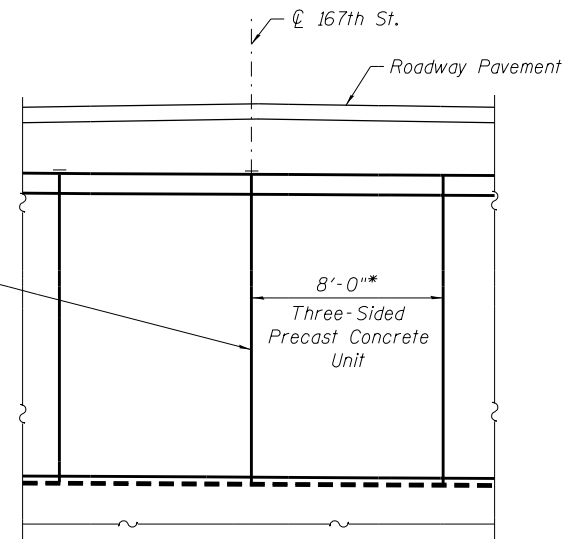
*See Note 1



MEMBRANE WATERPROOFING DETAIL

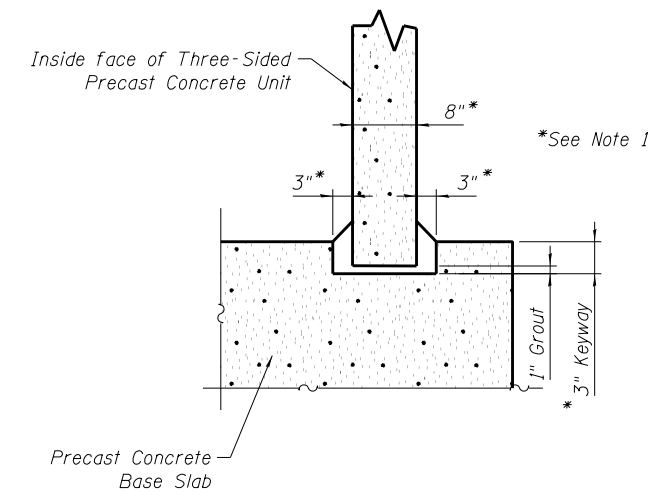
*** The pay limits for Geocomposite Wall Drain are along the perimeter of the top and side walls and shall be placed on top of the footing as shown. Geocomposite Wall Drain shall be according to Section 591 of the Standard Specifications, except that concrete nails shall not be used in areas where it overlaps Membrane Waterproofing System for Buried Structures.

All joints between segments shall be sealed per section 540.06 of the Std. Specifications (See IDOT GBSP 90.)



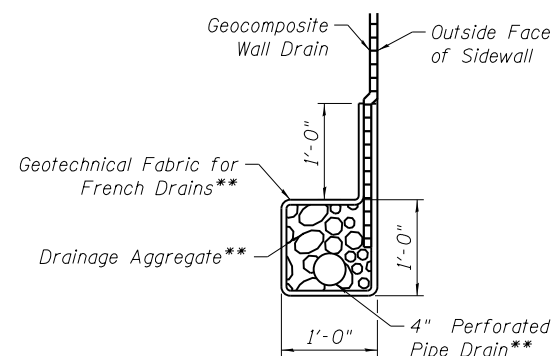
SECTION A-A

*See Note 1



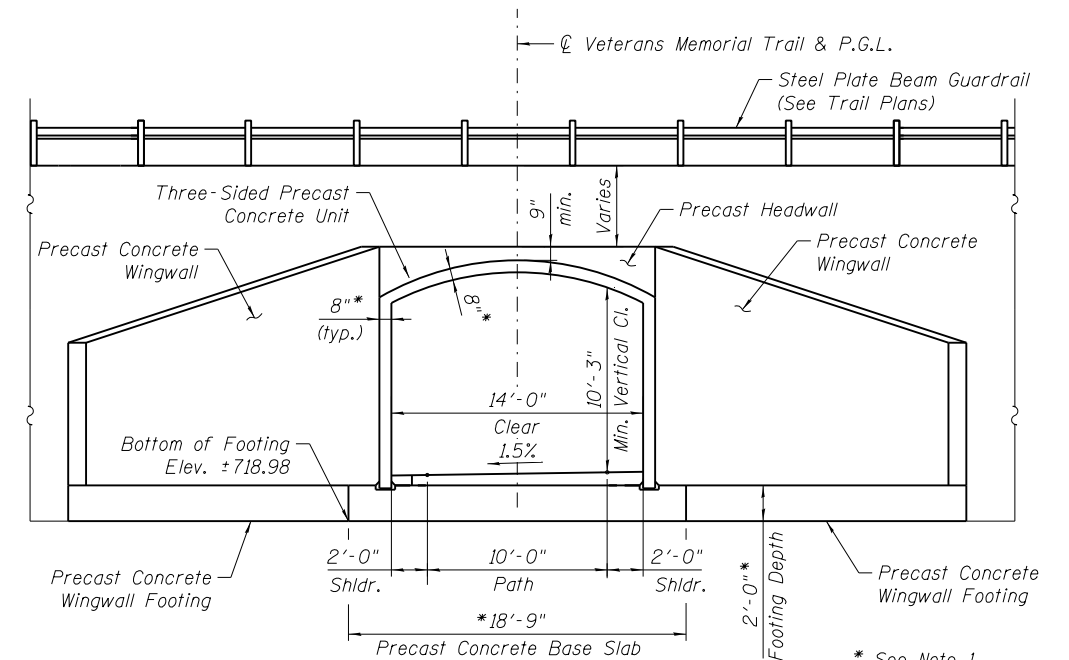
DETAIL 1

Fill entire keyway including nominal 1" void between bottom of keyway and bottom of precast unit leg with grout



PIPE UNDERDRAIN DETAIL

** Cost included with Pipe underdrains for structures 4". All drainage components shall extend to 2'-0" from the end of each wingwall, except an outlet pipe shall extend until intersecting with side slopes. The pipes shall drain into concrete headwalls. See Highway Standard 601101.



STRUCTURE END VIEW

Note: Additional PCC thickness for path to provide cross slope shall be considered Included in the Cost of the Item PCC Sidewalk 6".

NOTES:

1. Three-Sided Precast Concrete Unit details and geometry may vary per selected manufacturer's design. See Special Provisions.



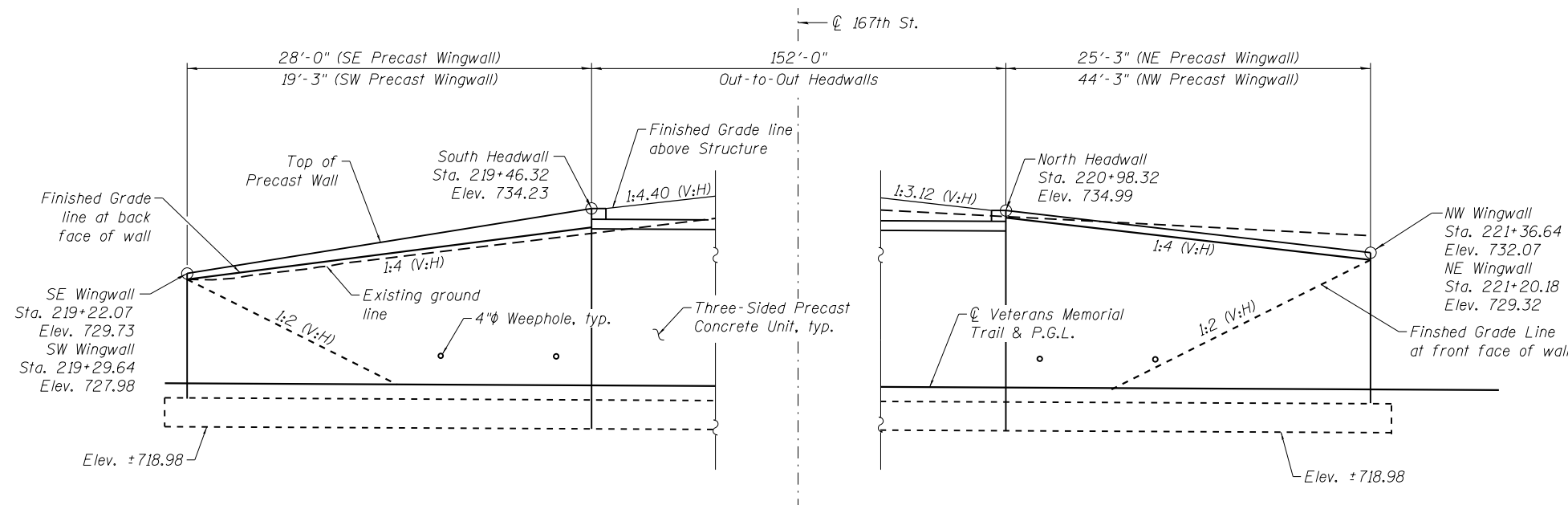
USER NAME =	DESIGNED - AM	REVISED
	CHECKED - DD	REVISED
PLOT SCALE =	DRAWN - ALM	REVISED
PLOT DATE = 2/8/2021	CHECKED - MCC	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

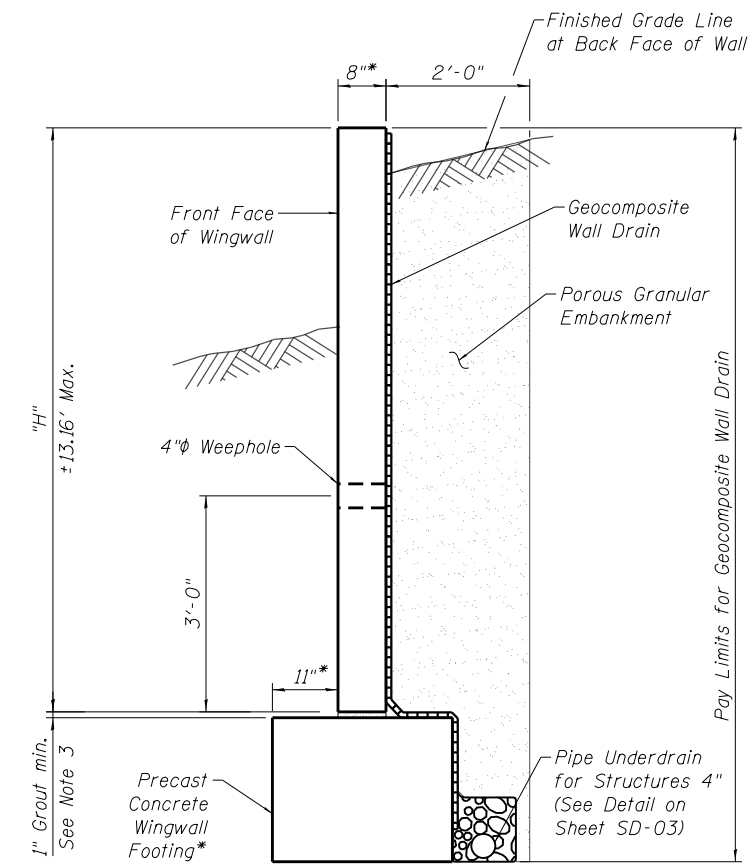
THREE-SIDED STRUCTURE DETAILS
STRUCTURE NO. 099-9935

SHEET NO. SD-03 OF SD-05 SHEETS

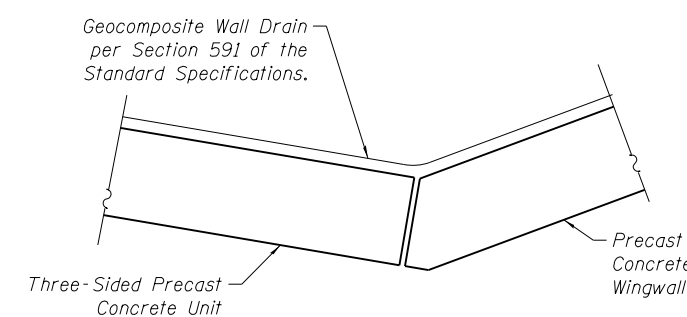
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	11-F3001-01-BT	WILL	234	111
CONTRACT NO. 61G74			ILLINOIS FED. AID PROJECT	



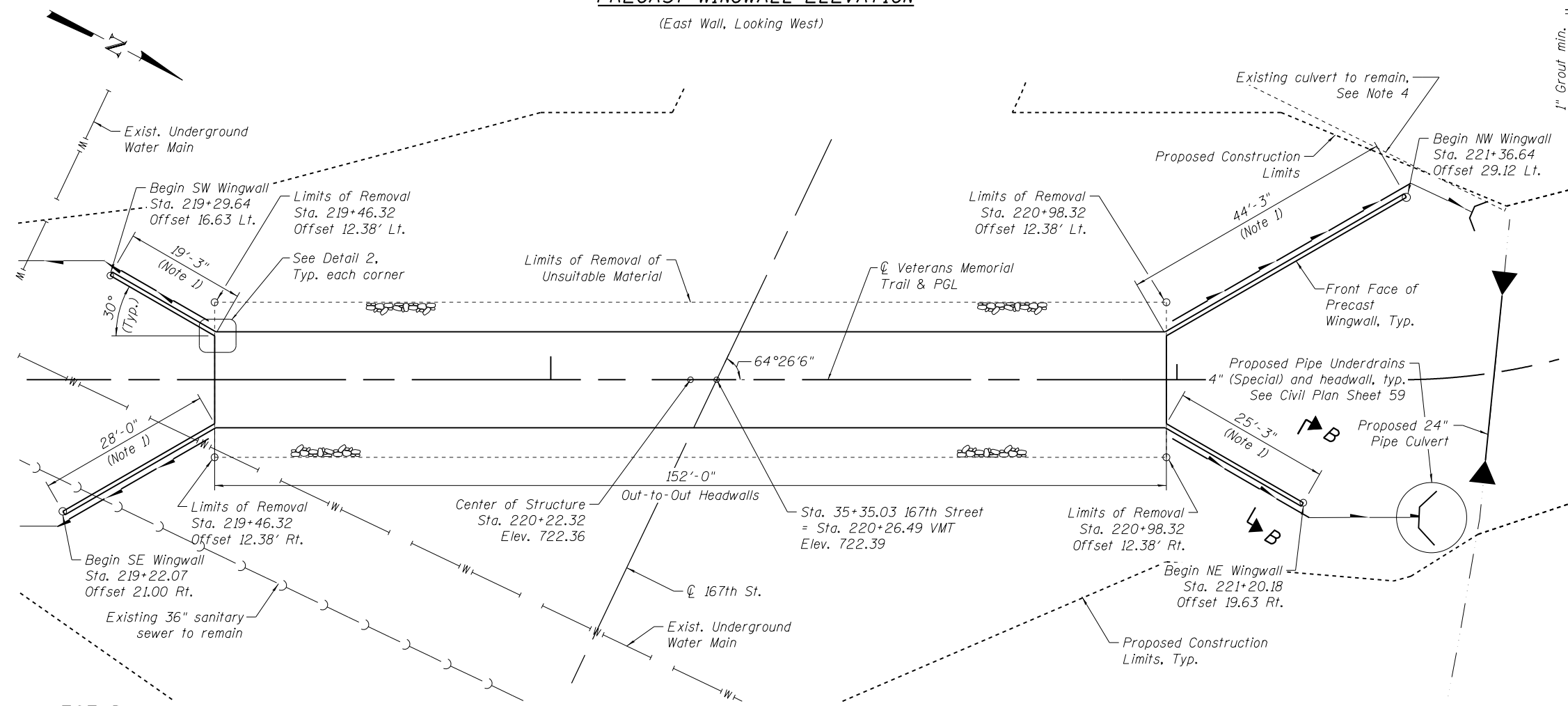
PRECAST WINGWALL ELEVATION
(East Wall, Looking West)



SECTION B-B



DETAIL 2



PLAN - PRECAST WINGWALLS

LEGEND

- Proposed Pipe Underdrains 4" (Special)
- Proposed Pipe Underdrains for Structures 4"

NOTES:

1. Wingwall length shown measured along front face of wall. Lengths shall be verified to meet proposed grading and manufacturer's structure geometry.
2. Wingwall details and geometry shown may vary per selected manufacturer design. See Special Provisions.
3. Wingwall grout at the footing shall be as follows:
 - Minimum 1" grout under wingwall leg & anchor stem.
 - Form backside of footing to dimensions provided in selected manufacturer's design.
4. Contractor shall take care not to damage existing culvert during excavation and construction of wingwall footing. Any damage done to the existing culvert shall be repaired or replaced to the satisfaction of the Engineer at no additional expense.



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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**PRECAST WINGWALL DETAILS
STRUCTURE NO. 099-9935**

SHEET NO. SD-04 OF SD-05 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	11-F3001-01-BT	WILL	234	112
CONTRACT NO. 61G74				

ILLINOIS FED. AID PROJECT



SOIL BORING LOG

Date 2/3/16

ROUTE _____ DESCRIPTION Proposed Tunnel under 167th Street LOGGED BY Danish

SECTION _____ LOCATION Northing: 1790990.6304, Easting: 1074700.6842, SEC. , TWP. , RNG.

COUNTY Will County DRILLING METHOD Hollow Stem Auger HAMMER TYPE Automatic

STRUCT. NO. Proposed Tunnel under 167th Street Station _____	D E P T H H	B L O W S	U C S Qu	M O I S T T	Surface Water Elev. _____ ft	Stream Bed Elev. _____ ft	Groundwater Elev.: None _____ ft	Upon Completion After _____ Hrs. _____ ft	D E P T H H	B L O W S	U C S Qu	M O I S T T
12"- TOPSOIL, Black												
CLAY with trace organic, Dark Brown, Stiff. CL		2	2.0	25.1						3	2.1	15.0
		5	P							7	B	
		2								5		
		2	2.0	26.0						5	2.3	19.5
		2	P							7	B	
CLAY, Brown and Gray, Stiff. CL		1								8		
		8	1.2	18.2						6	1.7	14.2
		10	B							7	B	
SILTY CLAY, Gray, Very Stiff to Stiff. CL-ML		ST	2.7	13.8						5		
		7	1.3	16.1						7	2.7	13.7
		9	P							9	B	
		5								14		
		7	1.3	16.1						13	2.5	15.7
		9	P							8	B	
		5								14		
		7	2.7	15.8						13	2.5	15.7
		9	B							8	B	
CLAY with pieces of stone, Gray, Stiff to Very Stiff. CL		5								6		
		6	1.3	14.6						8	6.0	16.5
		6	B							11	S	

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)



SOIL BORING LOG

Date 2/9/16

ROUTE _____ DESCRIPTION Proposed Tunnel under 167th Street LOGGED BY Syed

SECTION _____ LOCATION Northing: 1791205.0536, Easting: 1074588.1178, SEC. , TWP. , RNG.

COUNTY Will County DRILLING METHOD Hollow Stem Auger HAMMER TYPE Automatic

STRUCT. NO. Proposed Tunnel under 167th Street Station _____	D E P T H H	B L O W S	U C S Qu	M O I S T T	Surface Water Elev. _____ ft	Stream Bed Elev. _____ ft	Groundwater Elev.: None _____ ft	Upon Completion After _____ Hrs. _____ ft	D E P T H H	B L O W S	U C S Qu	M O I S T T
11"-TOPSOIL, Black												
CLAY with trace of sand and gravel, Brown, Very Stiff to Medium Stiff. CL		4	3.5	14.2						3	0.5	17.3
		6	P							5	P	
		3								2		
		4	0.5	24.7						4	1.8	16.0
		4	P							7	B	
CLAY with trace of gravel, Gray, Very Stiff. CL		1								2		
		3	0.8	26.6						5	2.5	16.0
		3	B							8	B	
CLAY with trace of sand and gravel, Brown and Gray, Hard. CL		5								4		
		7	5.4	17.2						4	2.5	18.1
		11	S							7	B	
		3								14		
		7	4.5	14.9						5	2.9	13.8
		10	S							8	B	
CLAY with trace of gravel and pieces of stone, Gray, Very Stiff to Stiff. CL		3								14		
		6	2.5	15.4						5	2.9	13.8
		8	B							8	B	
		ST	2.5	16.5						20		
		5	1.7	14.9						25		13.4
		7	B							12		
CLAY mixed with gravel, Gray, Hard. CL		3								20		
		5	1.7	14.9						25		13.4
		7	B							12		

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)



USER NAME =	DESIGNED - AM	REVISED
CHECKED - DD	REVISOR	
PLOT SCALE =	DRAWN - AM	REVISOR
PLOT DATE = 2/8/2021	CHECKED - MCC	REVISOR

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOIL BORING LOGS
STRUCTURE NO. 099-9935

SHEET NO. SD-05 OF SD-05 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	11-F3001-01-BT	WILL	234	113
CONTRACT NO. 61G74			ILLINOIS FED. AID PROJECT	

Bench Mark: Tower; Bernsten top security GPS 3-dimensional rod monument, on the right (east) shoulder of Gougar rd. at N:1,800,975.0800 E:1,073,316.1058, Elev. 754.44 (NAVD 88).

Existing Structure: None.

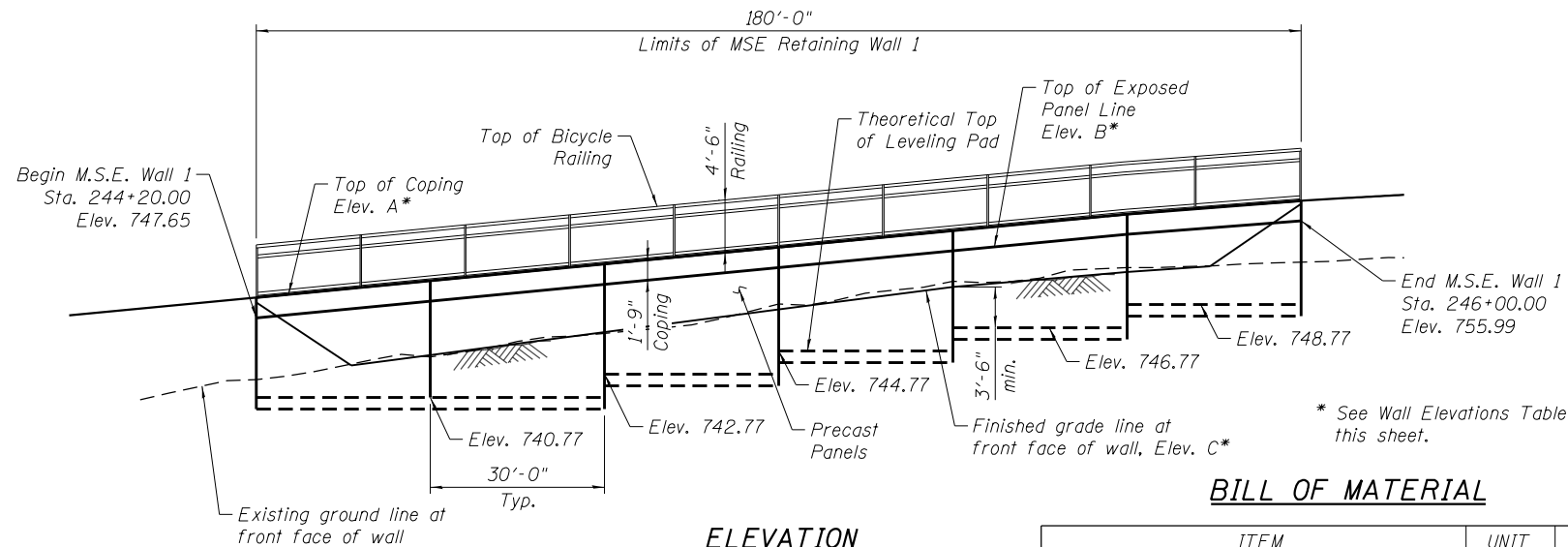
INDEX OF SHEETS

- SE-01 General Plan & Elevation
- SE-02 M.S.E. Wall Details
- SE-03 Bicycle Railing Details
- SE-04 Soil Boring Logs

WALL ELEVATIONS TABLE

Station	Offset	Elev. A	Elev. B	Elev. C
244+20.00	8.67' Rt.	749.40	747.65	749.04
244+50.00	8.67' Rt.	750.84	749.09	744.41
244+80.00	8.67' Rt.	752.28	750.53	746.39
245+10.00	8.67' Rt.	753.72	751.97	748.35
245+40.00	8.67' Rt.	755.16	753.41	750.27
245+70.00	8.67' Rt.	756.58	754.83	753.41
246+00.00	8.67' Rt.	757.74	755.99	757.14

Elevation A - Top of coping
 Elevation B - Top of Exposed Panel Line
 Elevation C - Finished grade line at front face of wall



ELEVATION

(Looking West at F.F. of Wall)

BILL OF MATERIAL

ITEM	UNIT	TOTAL
Concrete Structures	Cu Yd	92
Protective Coat	Sq Yd	280
Reinforcement Bars, Epoxy Coated	Pound	12,280
Bicycle Railing	Foot	180
Temporary Soil Retention System	Sq Ft	1,445
Mechanically Stabilized Earth Retaining Wall	Sq Ft	1,411
Structure Excavation (Special)	Cu Yd	476
Pipe Underdrains For Structures 4"	Foot	180

NOTES:

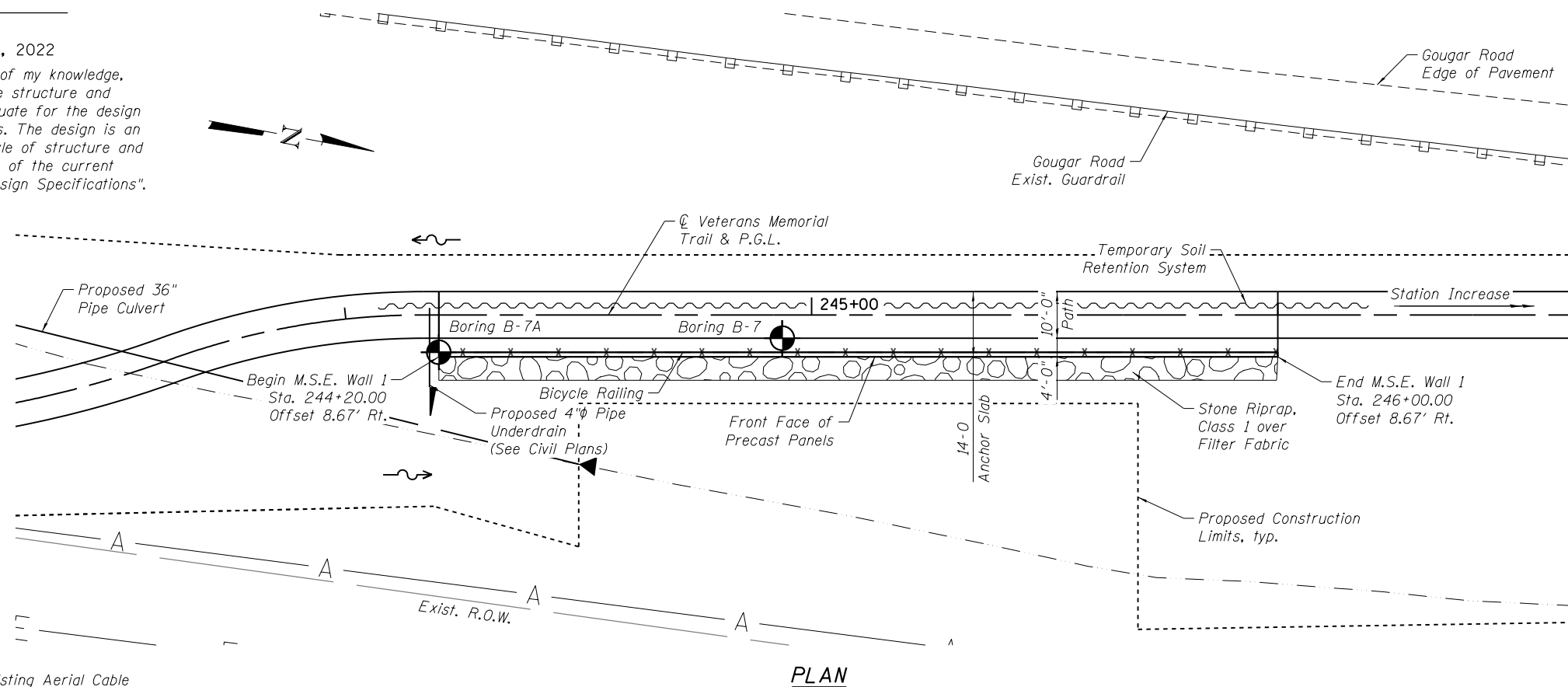
1. Wall offsets are measured from \odot Veterans Memorial Trail to the front face of precast panels.
2. F.F denotes Front Face.
3. For Wall typical section, see Sheet SE-02.
4. For Temporary Soil Retention System details, see Sheet SE-02.



Demir Dabezic

DEMIR DABEZIC S.E.
 EXPIRES: NOVEMBER 30, 2022

I certify that to the best of my knowledge, information, and belief, the structure and design is structurally adequate for the design loading shown on the plans. The design is an economical one for the style of structure and complies with requirements of the current "AASHTO LRFD Bridge Design Specifications".



PLAN

LEGEND

- Soil Boring location
- Existing Aerial Cable
- Existing Guardrail

DESIGN SPECIFICATIONS

2017 AASHTO LRFD Bridge Design Specifications, 8th Edition

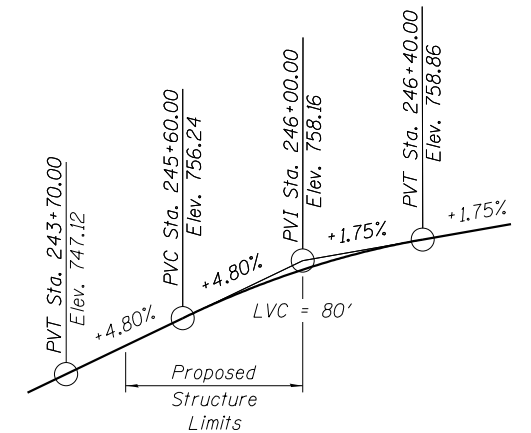
DESIGN STRESSES

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

PRECAST UNITS
 $f'_c = 4,500$ psi (Precast Panels)

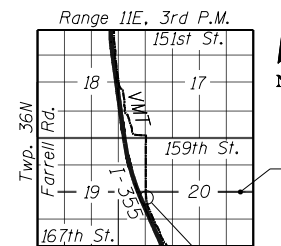
SEISMIC DATA

Seismic Performance Zone (SPZ) = 1
 Design Spectral Acceleration at 1.0 sec. (S_{D1}) = 0.095g
 Design Spectral Acceleration at 0.2 sec. (S_{D5}) = 0.167g
 Soil Site Class = D



PROFILE GRADE

(Along \odot Veterans Memorial Trail)



LOCATION SKETCH

**GENERAL PLAN & ELEVATION
 VETERANS MEMORIAL TRAIL
 M.S.E. RETAINING WALL 1
 SECTION 11-F3001-01-BT
 WILL COUNTY**

STA. 244+20.00 TO STA. 246+00.00

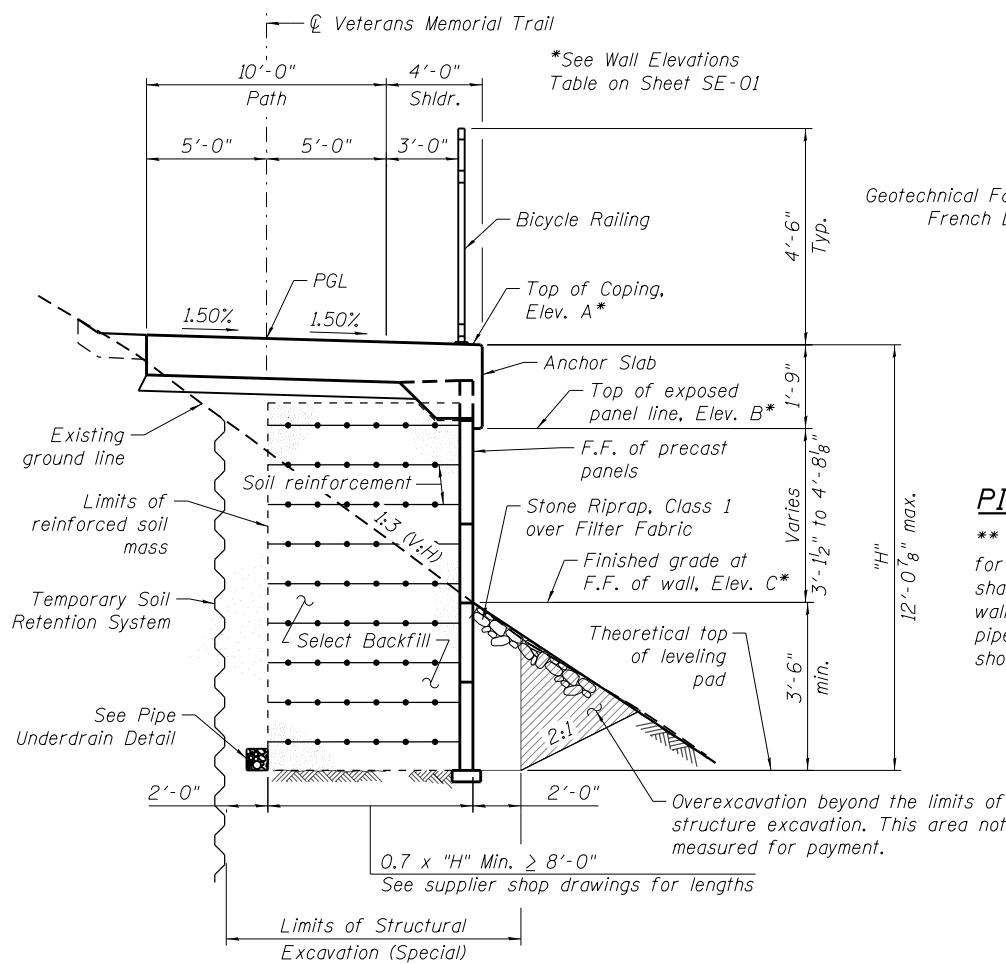


USER NAME =	DESIGNED - AM	REVISED
	CHECKED - DD	REVISED
PLOT SCALE =	DRAWN - AM	REVISED
PLOT DATE = 2/8/2021	CHECKED - MCC	REVISED

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

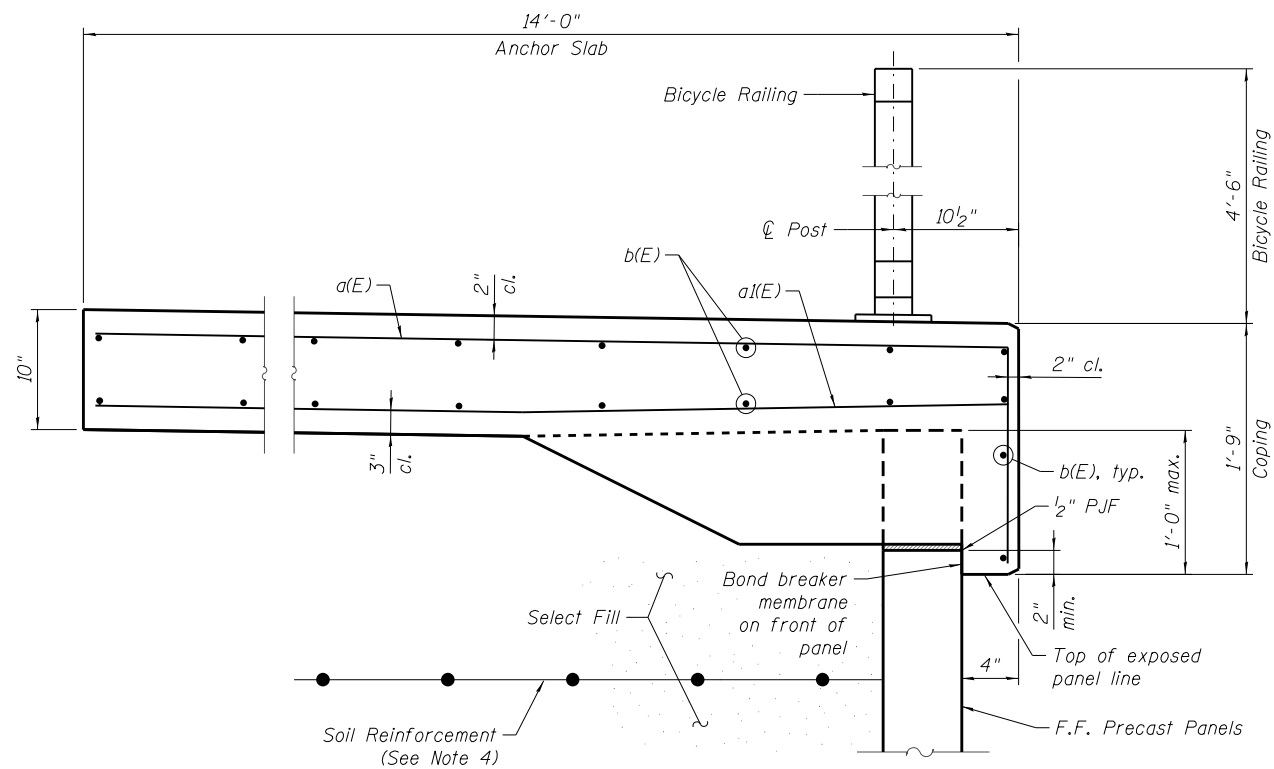
SHEET NO. SE-01 OF SE-04 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 61G74			ILLINOIS FED. AID PROJECT	

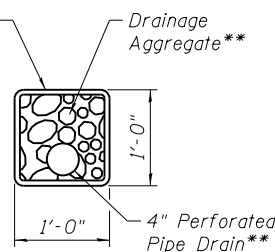


TYPICAL WALL SECTION

(Looking North)

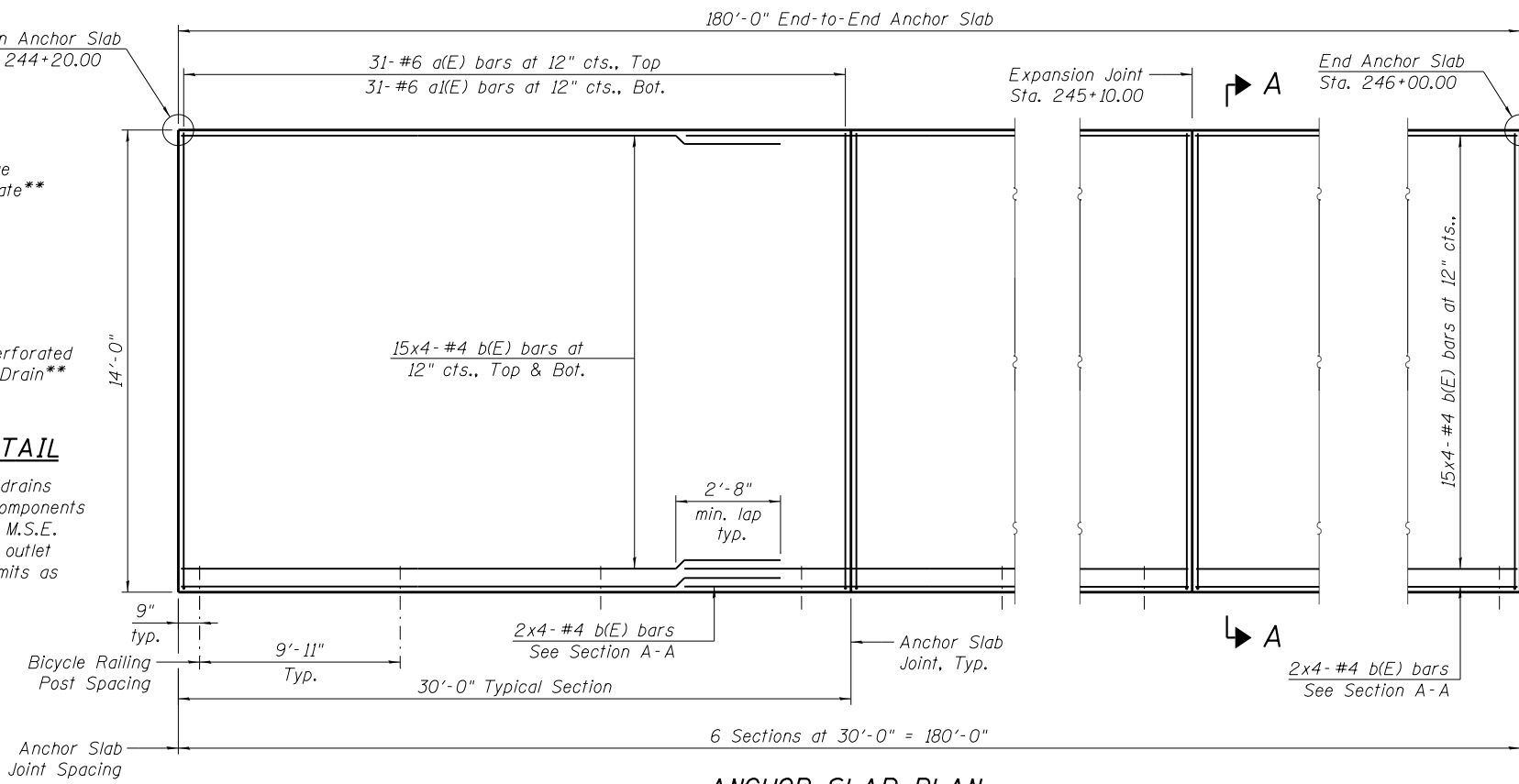


SECTION A-A



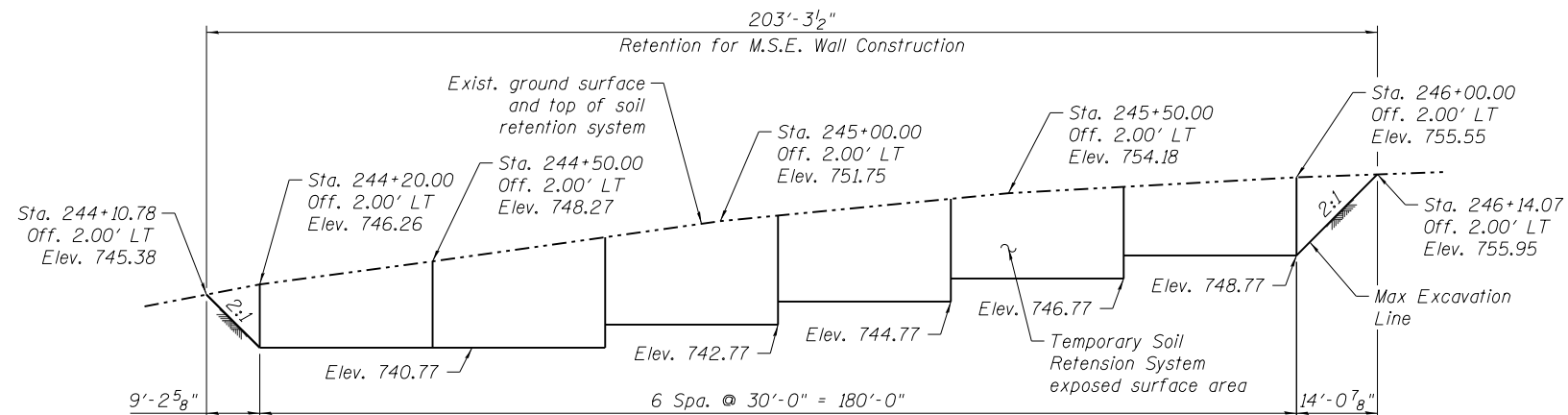
PIPE UNDERDRAIN DETAIL

** Cost included with Pipe underdrains for structures 4". All drainage components shall extend to 2'-0" beyond the M.S.E. wall soil reinforcement limits. An outlet pipe shall extend beyond these limits as shown on the Civil Plans.



ANCHOR SLAB PLAN

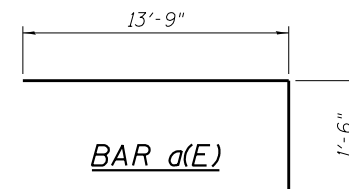
(Bicycle Railing not shown for clarity)



NOTES:

1. See Trail Plans for path alignment information.
2. Bicycle railing shall be mounted to cast-in-place anchor slab as shown on this sheet. See Sheet SE-03 for Bicycle Railing Details.
3. Wall elevations shown on Sheet SE-01 refer to the top of exposed precast panel line. Top of precast panel shall vary to satisfy dimensions as shown in Section A-A on this sheet.
4. The M.S.E. wall supplier's internal stability design shall account for the anchorage slab's bearing pressure surcharge of 1.0 ksf and horizontal sliding force of 0.5 kips/ft. of wall.
5. Reinforcement bars designated (E) shall be epoxy coated.
6. Bars indicated 15x4 indicates 15 lines of bars with 4 lengths per line.
7. Protective Coat shall only be applied to the top surface of the anchor slab.

TEMPORARY SOIL RETENTION SYSTEM



ANCHOR SLAB BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a(E)	186	#6	15'-3"	┌───┐
a(I(E))	186	#6	13'-9"	└───┘
b(E)	256	#4	24'-5"	───
Reinforcement Bars, Epoxy Coated			Pound	12,280
Concrete Structures			Cu. Yd.	92
Protective Coat			Sq. Yd.	280



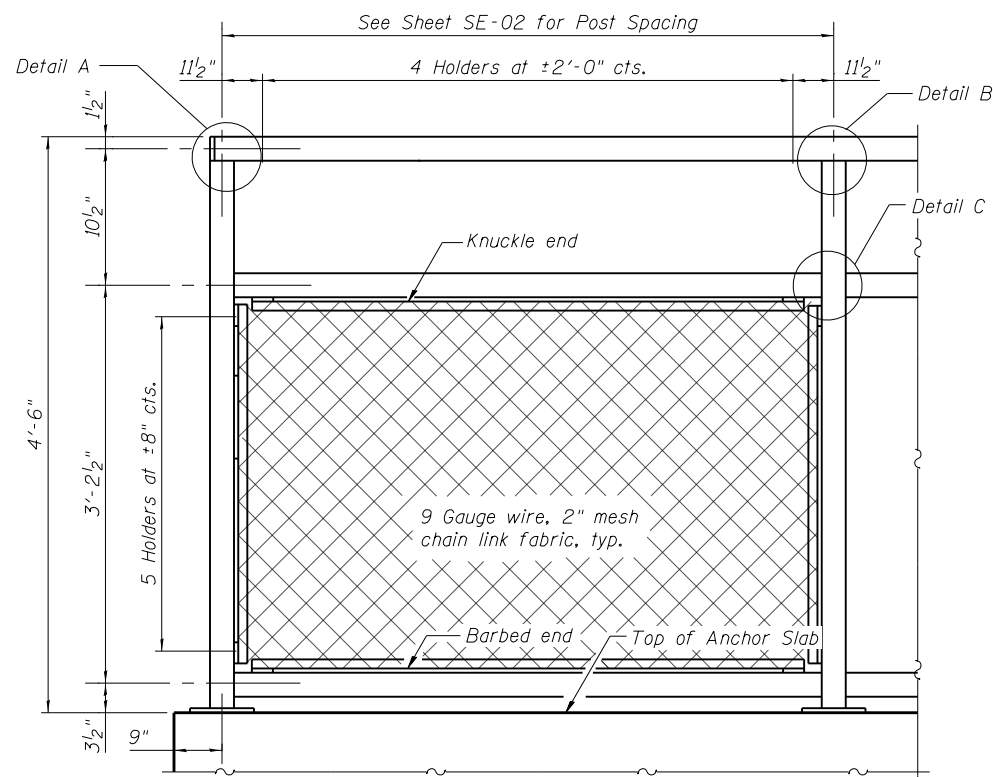
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	CHECKED - DD	REVISED
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PLOT DATE = 2/8/2021	CHECKED - DD	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

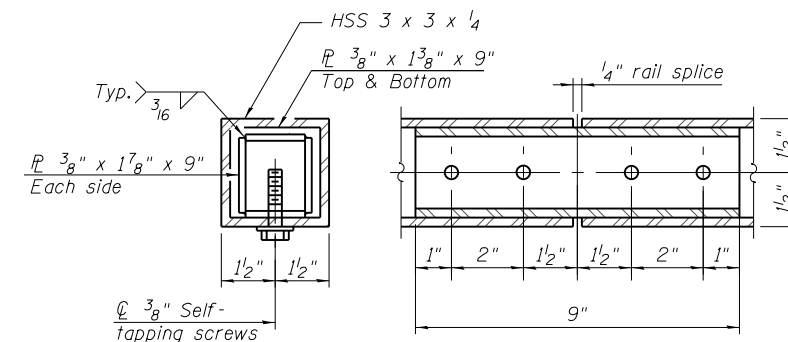
M.S.E. WALL DETAILS
RETAINING WALL 1

SHEET NO. SE-02 OF SE-04 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	11-F3001-01-BT	WILL	234	115
CONTRACT NO. 61G74			ILLINOIS FED. AID PROJECT	

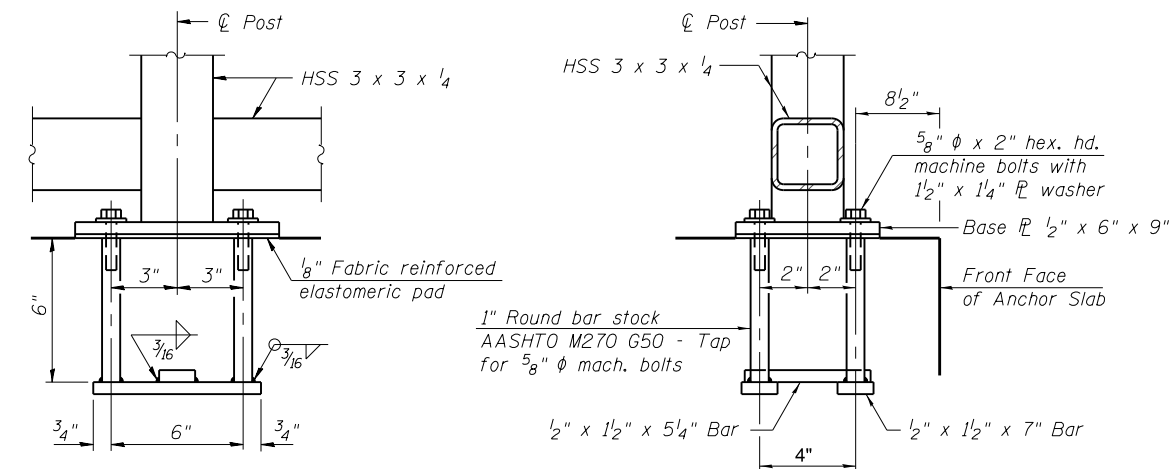


BICYCLE RAILING ELEVATION



RAIL SPLICE

All structural steel tubing, post and railing, for parapet railing shall be CVN tested according to 1006.34(b) of the Standard Specifications. CVN testing may be omitted for the Bicycle Railing.

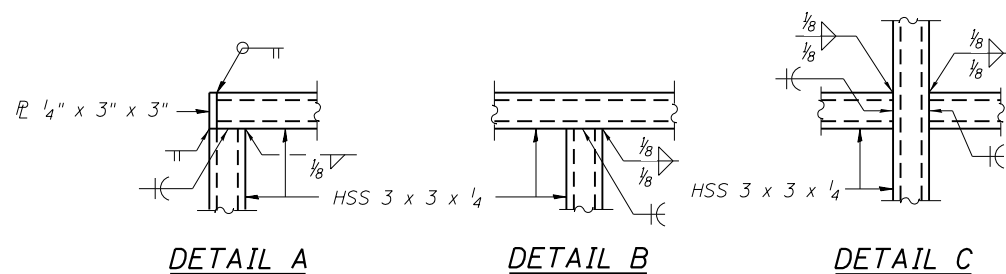


ANCHOR BOLT DETAILS

In lieu of the cast-in-place anchor device shown, the Contractor has the option of drilling and setting 5/8" ϕ anchor rods according to Article 509.06 of the Standard Specifications. Embedment shall be according to the manufacturer's specifications.

NOTES:

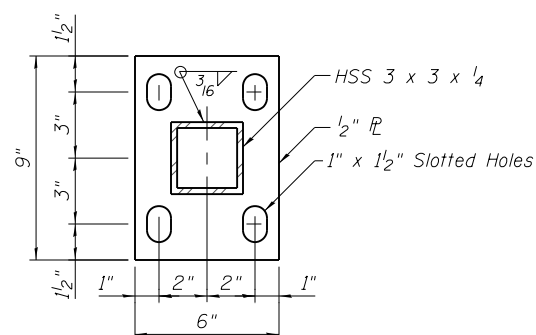
- All steel rail elements shall be galvanized according to article 509.05 of the Standard Specifications



DETAIL A

DETAIL B

DETAIL C



BASE PLATE

BILL OF MATERIAL

Item	Unit	Quantity
Bicycle Railing	Foot	180



USER NAME =	DESIGNED - AM	REVISED
	CHECKED - DD	REVISED
PLOT SCALE =	DRAWN - AM	REVISED
PLOT DATE = 2/8/2021	CHECKED - MCC	REVISED

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**BICYCLE RAILING DETAILS
RETAINING WALL 1**

SHEET NO. SE-03 OF SE-04 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	11-F3001-01-BT	WILL	234	116
			CONTRACT NO. 61G74	
ILLINOIS FED. AID PROJECT				



SOIL BORING LOG

Date 2/9/16

ROUTE _____ DESCRIPTION Proposed Retaining Wall #1 LOGGED BY Syed

SECTION _____ LOCATION Northing: 1793302.1618, Easting: 1073604.9982, SEC. , TWP. , RNG.

COUNTY Will County DRILLING METHOD Hollow Stem Auger HAMMER TYPE Automatic

STRUCT. NO.	D	B	U	M	Surface Water Elev.	D	B	U	M
Station	E	L	C	O	Stream Bed Elev.	E	L	C	O
	P	O	S	I		P	O	S	I
	T	W	Qu	S	Groundwater Elev.:	H	S	Qu	T
BORING NO.	H	S		T	Upon Completion	(ft)	(/6")	(tsf)	(%)
Station					After				
Offset					Hrs.				
Ground Surface Elev.									

12"-TOPSOIL, Black.									
					751.00				
CLAY with trace of sand and gravel, Brown, Very Stiff to Hard. CL		2							
		4	3.7	17.2					
		7	B						
					729.50				
SAND with gravel, Brown, Medium Dense. SP		2							
		4	3.9	16.9					
		7	B						
					727.00				
SILTY CLAY with trace of gravel, Gray, Medium Stiff. CL-ML		2							
		7	4.1	17.0					
		10	B						
					724.50				
CLAY with gravel, Gray, Stiff. CL									
		3							
		7	3.3	16.4					
		14	B						
					743.50				
CLAY with gravel, Brown and Gray, Very Stiff. CL		3							
		7	3.3	16.4					
		14	B						
					741.00				
CLAYEY SILT, Gray, Stiff to Medium Stiff. ML		3							
		6	3.3	15.9					
		13	B						
					731.00				
CLAYEY SILT, Gray, Stiff to Medium Stiff. ML		3							
		6	3.3	15.9					
		13	B						
					733.50				
CLAY with gravel, Gray, Stiff. CL		4							
		7	1.7	14.1					
		13	B						
					732.00				
End of Boring					712.00				

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

BBS, from 137 (Rev. 8-99)



SOIL BORING LOG

Date 10/20/17

ROUTE _____ DESCRIPTION Proposed Retaining Wall LOGGED BY Danish

SECTION _____ LOCATION Northing: 1793229.53, Easting: 1073617.82, SEC. , TWP. , RNG.

COUNTY Will County DRILLING METHOD Hollow Stem Auger HAMMER TYPE Automatic

STRUCT. NO.	D	B	U	M	Surface Water Elev.	D	B	U	M
Station	E	L	C	O	Stream Bed Elev.	E	L	C	O
	P	O	S	I		P	O	S	I
	T	W	Qu	S	Groundwater Elev.:	H	S	Qu	T
BORING NO.	H	S		T	Upon Completion	(ft)	(/6")	(tsf)	(%)
Station					After				
Offset					Hrs.				
Ground Surface Elev.									

9"-TOPSOIL									
					741.89				
LEAN CLAY, Trace Sand and Gravel, Gray, Very Stiff. CL		4							
		5	2.1	17.2					
		6	B						
					739.14				
LEAN CLAY, Trace Gravel, Brown and Gray, Very Stiff. CL		4							
		7	2.3	18.4					
		7	B						
					734.14				
SANDY LEAN CLAY, Trace Fine Gravel, Brown and Gray, Stiff. CL		3							
		7	1.2	14.9					
		8	B						
					731.64				
SANDY LEAN CLAY, Trace Fine Gravel, Gray, Stiff to Very Stiff. CL		3							
		5	1.0	12.1					
		8	B						
					727.64				
End of Boring									

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

BBS, from 137 (Rev. 8-99)



USER NAME =	DESIGNED - AM	REVISED
	CHECKED - DD	REVISED
PLOT SCALE =	DRAWN - AM	REVISED
PLOT DATE = 2/8/2021	CHECKED - MCC	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOIL BORING LOGS
RETAINING WALL 1

SHEET NO. SE-04 OF SE-04 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	11-F3001-01-BT	WILL	234	117
CONTRACT NO. 61G74			ILLINOIS FED. AID PROJECT	

Bench Mark: Tower; Bernsten top security GPS 3-dimensional rod monument, on the right (east) shoulder of Gougar rd. at N:1,800,975.0800 E:1,073,316.1058, Elev. 754.44 (NAVD 88).

Existing Structure: None.

DESIGN SPECIFICATIONS

2017 AASHTO LRFD Bridge Design Specifications, 8th Edition

DESIGN STRESSES

FIELD UNITS

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

PRECAST UNITS

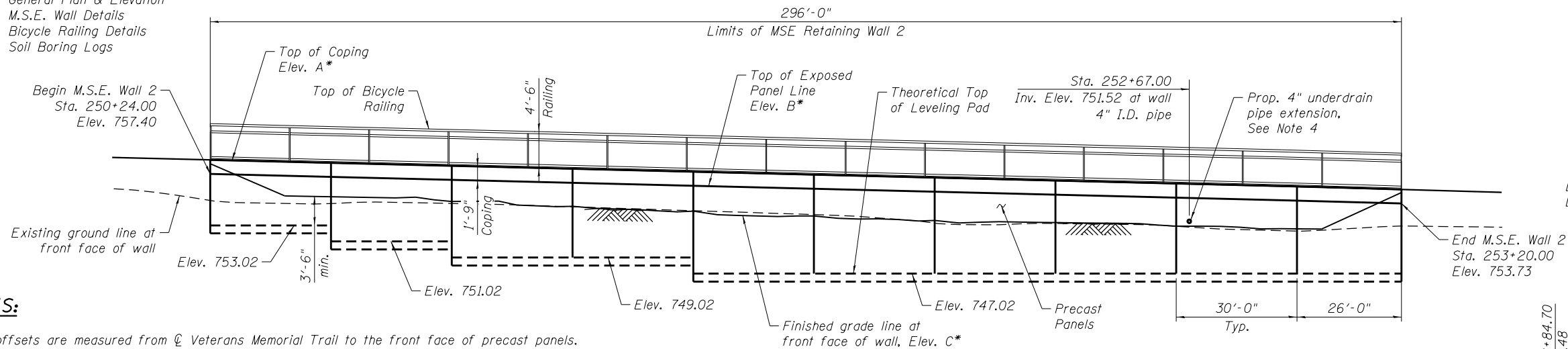
$f'_c = 4,500$ psi (Precast Panels)

SEISMIC DATA

Seismic Performance Zone (SPZ) = 1
 Design Spectral Acceleration at 1.0 sec. (S_{D1}) = 0.095g
 Design Spectral Acceleration at 0.2 sec. (S_{D5}) = 0.167g
 Soil Site Class = D

INDEX OF SHEETS

- SF-01 General Plan & Elevation
- SF-02 M.S.E. Wall Details
- SF-03 Bicycle Railing Details
- SF-04 Soil Boring Logs



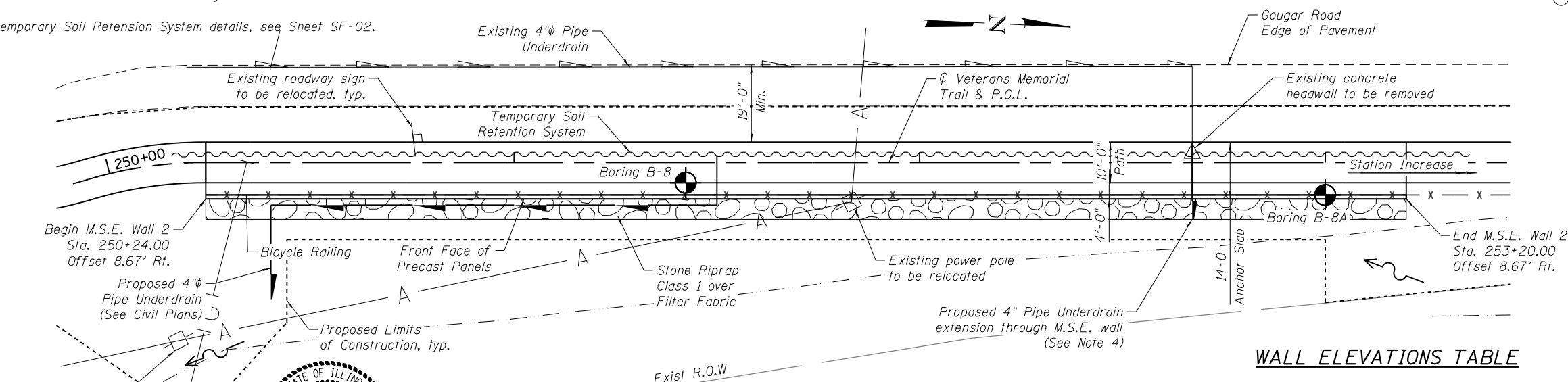
NOTES:

1. Wall offsets are measured from ϕ Veterans Memorial Trail to the front face of precast panels.
2. F.F. denotes Front Face.
3. For Wall typical section, see Sheet SF-02.
4. The M.S.E. wall supplier shall accommodate the opening for the 4" underdrain pipe at Sta. 252+67.00. Pipe outlet shall be 6" above finished grade at front face of wall.
5. For Temporary Soil Retention System details, see Sheet SF-02.

ELEVATION

(Looking West at F.F. of Wall)

* See Wall Elevations Table this sheet



PLAN

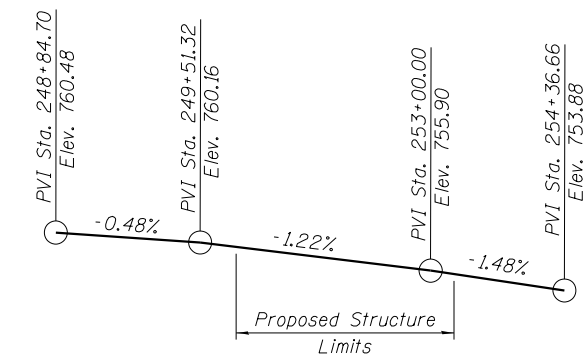
BILL OF MATERIAL

ITEM	UNIT	TOTAL
Concrete Structures	Cu Yd	151
Protective Coat	Sq Yd	461
Reinforcement Bars, Epoxy Coated	Pound	20,280
Bicycle Railing	Foot	296
Temporary Soil Retention System	Sq Ft	2,098
Mechanically Stabilized Earth Retaining Wall	Sq Ft	2,119
Structure Excavation (Special)	Cu Yd	724
Pipe Underdrains For Structures 4"	Foot	296

WALL ELEVATIONS TABLE

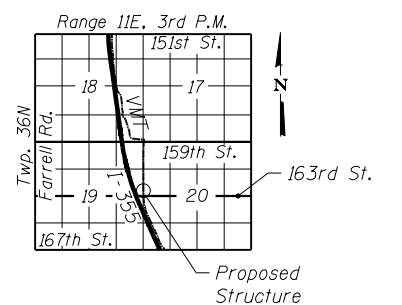
Station	Offset	Elev. A	Elev. B	Elev. C
250+24.00	8.67 Rt.	759.15	757.40	758.57
250+54.00	8.67 Rt.	758.79	757.04	756.64
250+84.00	8.67 Rt.	758.42	756.67	754.70
251+14.00	8.67 Rt.	758.06	756.31	753.39
251+44.00	8.67 Rt.	757.69	755.94	752.80
251+74.00	8.67 Rt.	757.32	755.57	752.20
252+04.00	8.67 Rt.	756.96	755.21	751.64
252+34.00	8.67 Rt.	756.59	754.84	751.29
252+64.00	8.67 Rt.	756.23	754.48	750.94
252+94.00	8.67 Rt.	755.86	754.11	750.60
253+20.00	8.67 Rt.	755.48	753.73	754.70

Elevation A - Top of coping
 Elevation B - Top of Exposed Panel Line
 Elevation C - Finished grade line at front face of wall



PROFILE GRADE

(Along ϕ Veterans Memorial Trail)



LOCATION SKETCH

**GENERAL PLAN & ELEVATION
 VETERANS MEMORIAL TRAIL
 M.S.E. RETAINING WALL 2
 SECTION 11-F3001-01-BT**

WILL COUNTY

STA. 250+24.00 TO STA. 253+20.00

LEGEND

- Soil Boring Location
- Existing power pole
- Existing aerial cable



Demir Dabecic
 DEMIR DABEZIC S.E.
 EXPIRES: NOVEMBER 30, 2022

I certify that to the best of my knowledge, information, and belief, the structure and design is structurally adequate for the design loading shown on the plans. The design is an economical one for the style of structure and complies with requirements of the current "AASHTO LRFD Bridge Design Specifications".

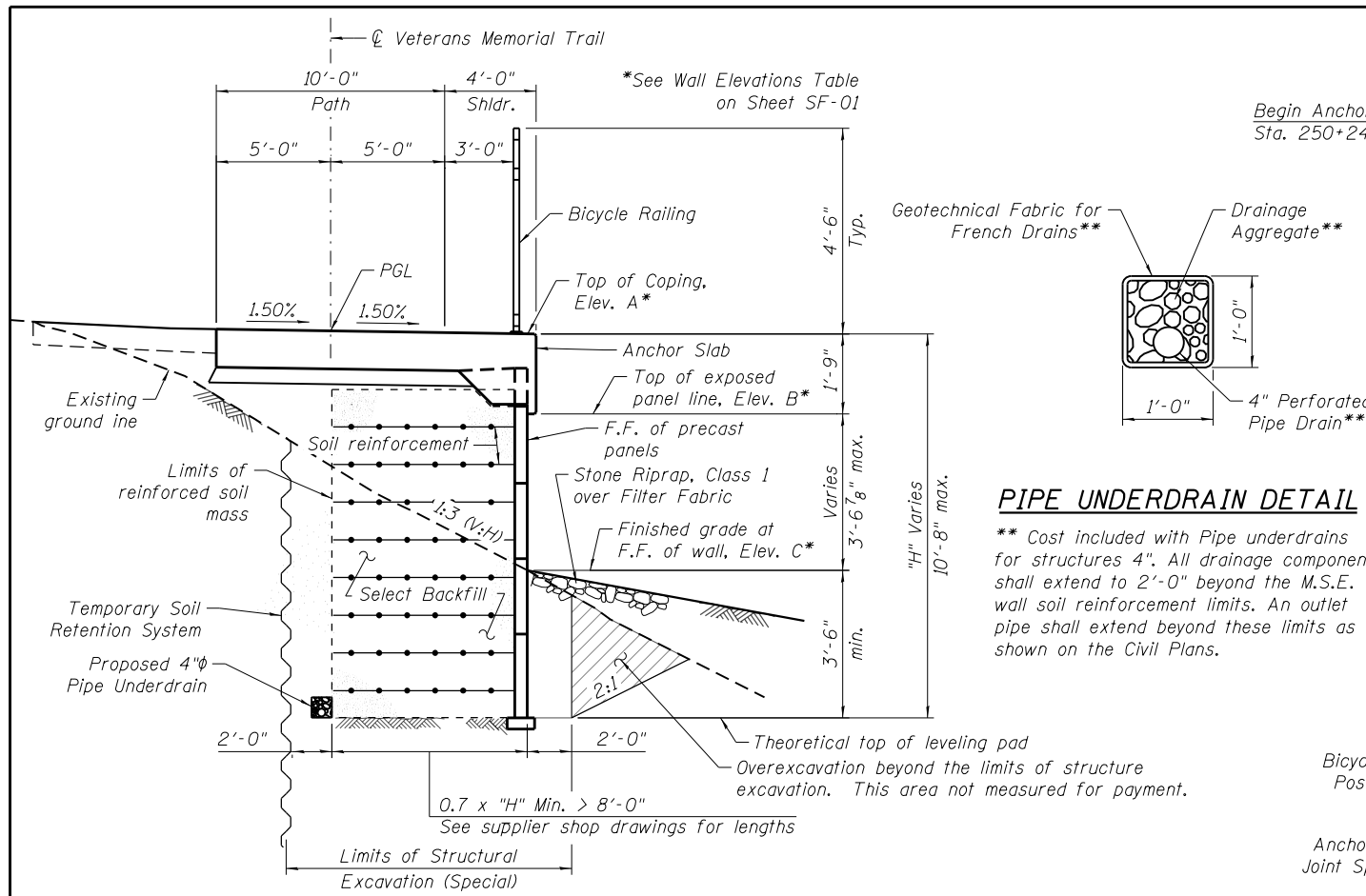


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	CHECKED - DD	REVISION
PLOT SCALE =	DRAWN - AM	REVISION
PLOT DATE = 2/8/2021	CHECKED - MCC	REVISION

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

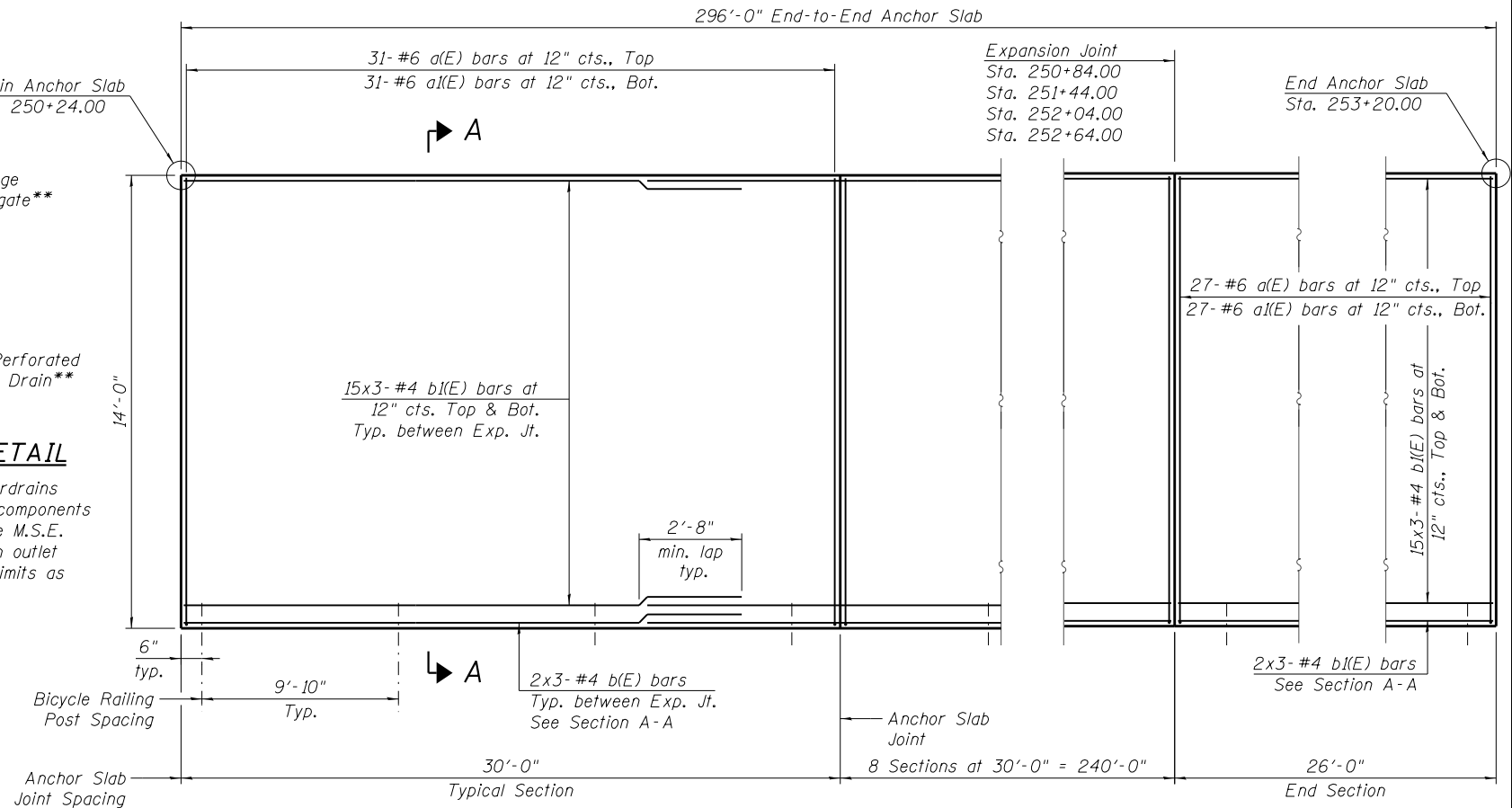
SHEET NO. SF-01 OF SF-04 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	11-F3001-01-BT	WILL	234	118
CONTRACT NO. 61G74			ILLINOIS FED. AID PROJECT	

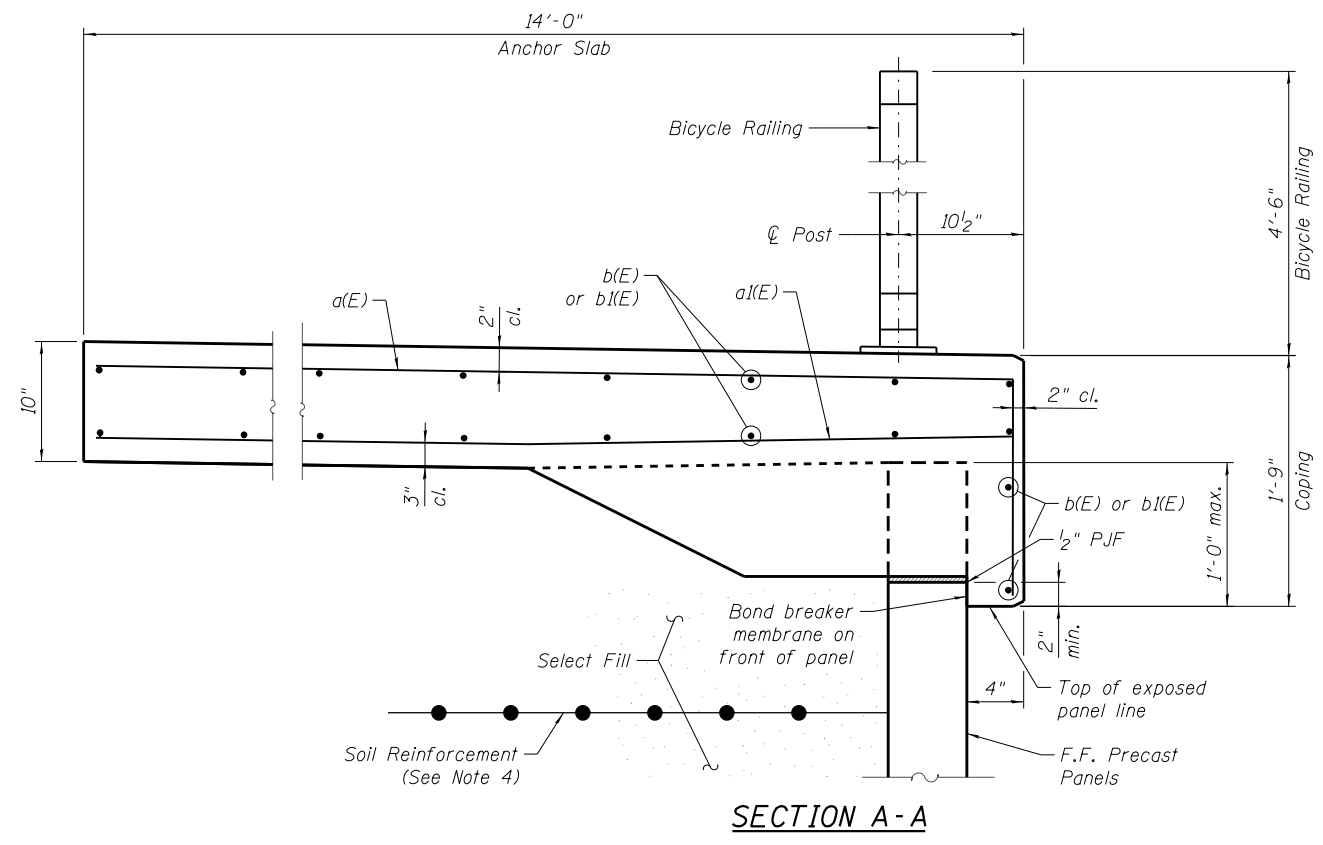


TYPICAL WALL SECTION
(Looking North)

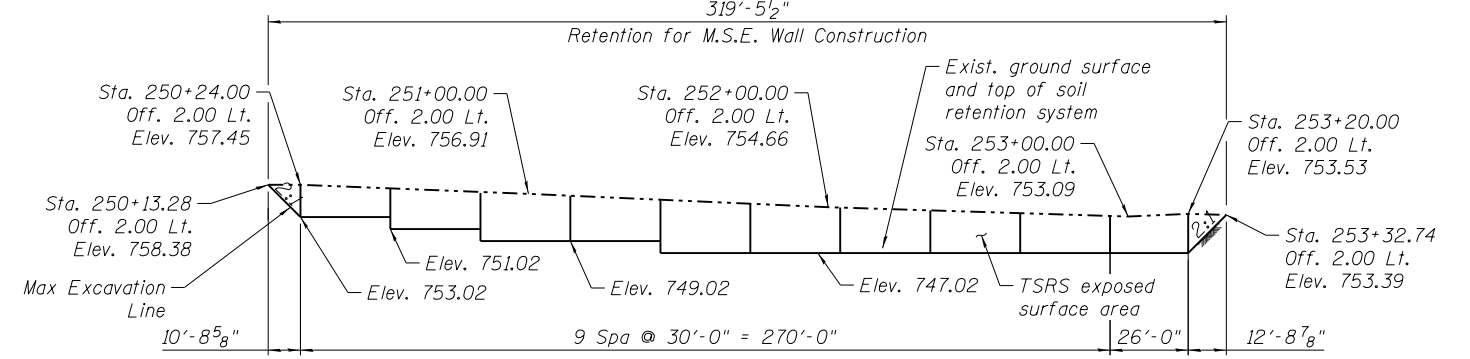
PIPE UNDERDRAIN DETAIL
 ** Cost included with Pipe underdrains for structures 4". All drainage components shall extend to 2'-0" beyond the M.S.E. wall soil reinforcement limits. An outlet pipe shall extend beyond these limits as shown on the Civil Plans.



ANCHOR SLAB PLAN
(Bicycle Railing not shown for clarity)



SECTION A-A



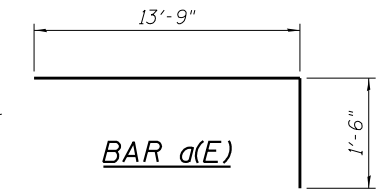
TEMPORARY SOIL RETENTION SYSTEM
(Looking West)

NOTES:

- See Trail Plans for path alignment information.
- Bicycle Railing shall be mounted to cast-in-place anchor slab as shown on this sheet. See Sheet SF-03 for Bicycle Railing Details.
- Wall elevations shown on Sheet SF-01 refer to the top of exposed precast panel line. Top of precast panel shall vary to satisfy dimensions as shown in Section A-A on this sheet.
- The M.S.E. wall supplier's internal stability design shall account for the anchorage slab's bearing pressure surcharge of 1.0 ksf and horizontal sliding force of 0.5 kips/ft. of wall.
- Reinforcement bars designated (E) shall be epoxy coated.
- Bars indicated 15x3 indicates 15 lines of bars with 3 lengths per line.
- Protective Coat shall only be applied to the top surface of the anchor slab.

ANCHOR SLAB BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a(E)	306	#6	15'-3"	┌
aI(E)	306	#6	13'-9"	—
bI(E)	480	#4	21'-8"	—
Reinforcement Bars, Epoxy Coated			Pound	20,280
Concrete Structures			Cu. Yd.	151
Protective Coat			Sq. Yd.	461

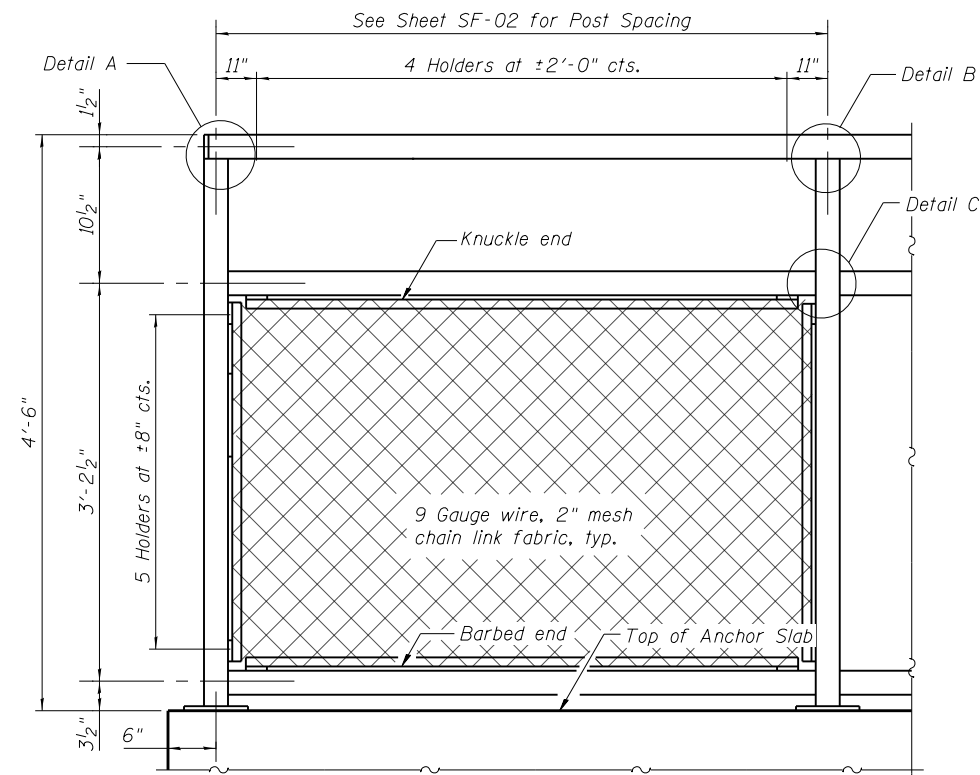


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	CHECKED - MCC	REVISED
PLOT SCALE =	DRAWN - AM	REVISED
PLOT DATE = 2/8/2021	CHECKED - DD	REVISED

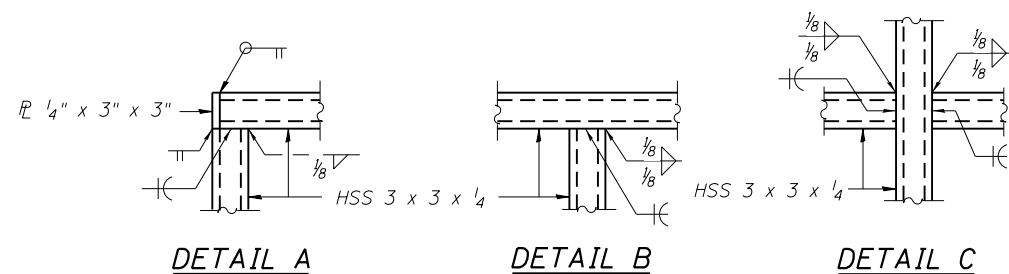
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

M.S.E. WALL DETAILS
RETAINING WALL 2
SHEET NO. SF-02 OF SF-04 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	11-F3001-01-BT	WILL	234	119
CONTRACT NO. 61G74				
ILLINOIS FED. AID PROJECT				



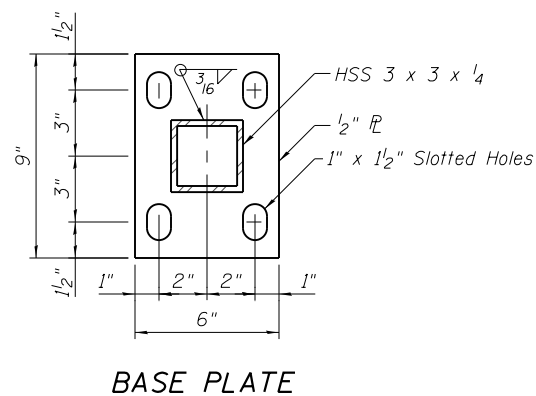
BICYCLE RAILING ELEVATION



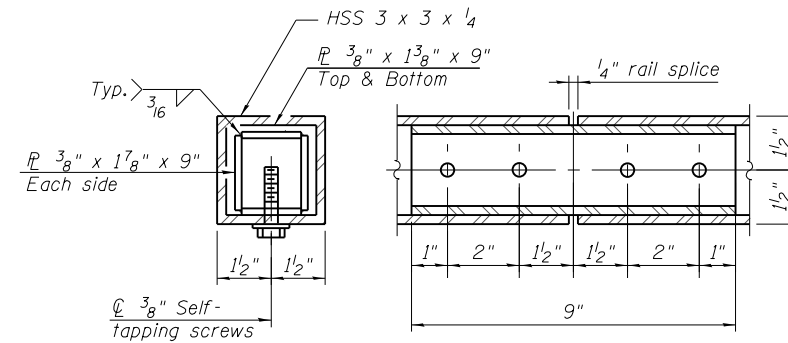
DETAIL A

DETAIL B

DETAIL C

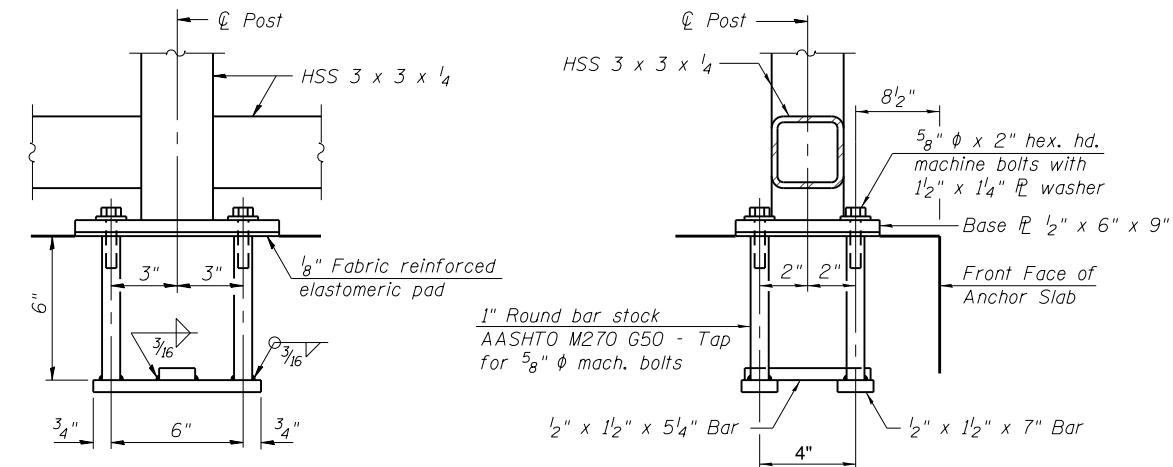


BASE PLATE



RAIL SPLICE

All structural steel tubing, post and railing, for parapet railing shall be CVN tested according to 1006.34(b) of the Standard Specifications. CVN testing may be omitted for the Bicycle Railing.



ANCHOR BOLT DETAILS

In lieu of the cast-in-place anchor device shown, the Contractor has the option of drilling and setting 5/8" ϕ anchor rods according to Article 509.06 of the Standard Specifications. Embedment shall be according to the manufacturer's specifications.

NOTES:

- All steel rail elements shall be galvanized according to article 509.05 of the Standard Specifications.

BILL OF MATERIAL

Item	Unit	Quantity
Bicycle Railing	Foot	296



USER NAME =	DESIGNED - AM	REVISED
	CHECKED - DD	REVISED
PLOT SCALE =	DRAWN - AM	REVISED
PLOT DATE = 2/8/2021	CHECKED - MCC	REVISED

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**BICYCLE RAILING DETAILS
RETAINING WALL 2**

SHEET NO. SF-03 OF SF-04 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	11-F3001-01-BT	WILL	234	120
			CONTRACT NO. 61G74	
ILLINOIS FED. AID PROJECT				



SOIL BORING LOG

Date 2/3/16

ROUTE _____ DESCRIPTION Proposed Retaining Wall #2 LOGGED BY Danish

SECTION _____ LOCATION Northing: 1793946.3814, Easting: 1073548.4735, SEC. , TWP. , RNG.

COUNTY Will County DRILLING METHOD Hollow Stem Auger HAMMER TYPE Automatic

STRUCT. NO. Proposed Retaining Wall #2
 Station _____
 BORING NO. B-8 (East of Trail)
 Station 251+42.32
 Offset 5.00ft E
 Ground Surface Elev. 755.00 ft

DEPTH (ft)	SOIL DESCRIPTION	BLOWS (6")	UNIFIED CLASSIFICATION	MOISTURE (%)	Surface Water Elev. (ft)	Stream Bed Elev. (ft)	Groundwater Elev. (ft)	Upon Completion After Hrs. (ft)
0	10"-TOPSOIL, Black.							
754.17	CLAY with trace of sand, Brown, Very Stiff. CL	2	2.9 B	17.5				
750.00	CLAY with trace of gravel, Brown, Very Stiff. CL	3	3.5 B	16.0				
742.00	GRAVELLY CLAY, Brown, Very Stiff. GC	16	2.5 B	3.3				
720.00	SANDY LEAN CLAY, Trace Fine gravel, Gray, Stiff. CL	7	1.3 B	15.0				
715.00	SANDY LEAN CLAY, Trace Fine gravel, Gray, Very Stiff. CL	6	2.1 B	19.5				

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
 The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

BBS, from 137 (Rev. 8-99)



SOIL BORING LOG

Date 10/19/17

ROUTE _____ DESCRIPTION Proposed Retaining Wall LOGGED BY Syed

SECTION _____ LOCATION Northing: 1794104.006, Easting: 1073547.194, SEC. , TWP. , RNG.

COUNTY Will County DRILLING METHOD Hollow Stem Auger HAMMER TYPE Automatic

STRUCT. NO. Proposed Retaining Wall
 Station _____
 BORING NO. 8A
 Station 253+00
 Offset _____
 Ground Surface Elev. 750.81 ft

DEPTH (ft)	SOIL DESCRIPTION	BLOWS (6")	UNIFIED CLASSIFICATION	MOISTURE (%)	Surface Water Elev. (ft)	Stream Bed Elev. (ft)	Groundwater Elev. (ft)	Upon Completion After Hrs. (ft)
750.31	6"-TOPSOIL							
745.81	FILL-LEAN CLAY, Trace Gravel and Organic, Brown and Gray.	3	2.8 P	17.9				
740.81	LEAN CLAY, Trace Gravel, Brown and Gray, Very Stiff. CL	3	3.1 P	16.7				
735.81	LEAN CLAY, Trace Gravel, Gray, Very Stiff. CL	4	3.7 B	14.9				
735.81	End of Boring							

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
 The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

BBS, from 137 (Rev. 8-99)



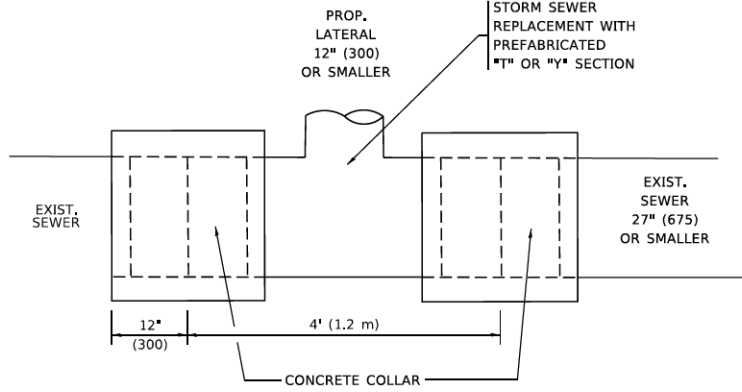
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	CHECKED - DD	REVISED
PLOT SCALE =	DRAWN - AM	REVISED
PLOT DATE = 2/8/2021	CHECKED - MCC	REVISED

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

SOIL BORING LOGS
 RETAINING WALL 2

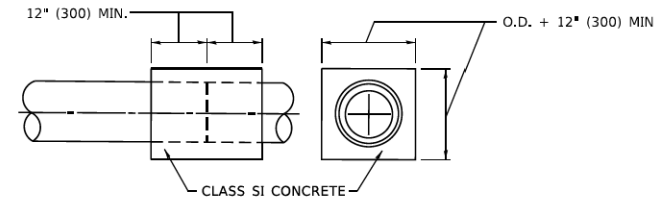
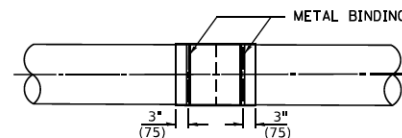
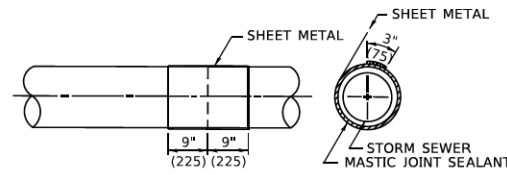
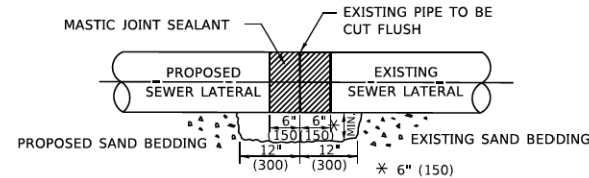
SHEET NO. SF-04 OF SF-04 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	11-F3001-01-BT	WILL	234	121
CONTRACT NO. 61G74			ILLINOIS FED. AID PROJECT	



DETAIL "A"

LATERAL CONNECTION TO EXISTING SEWER OF 27" (675) OR SMALLER



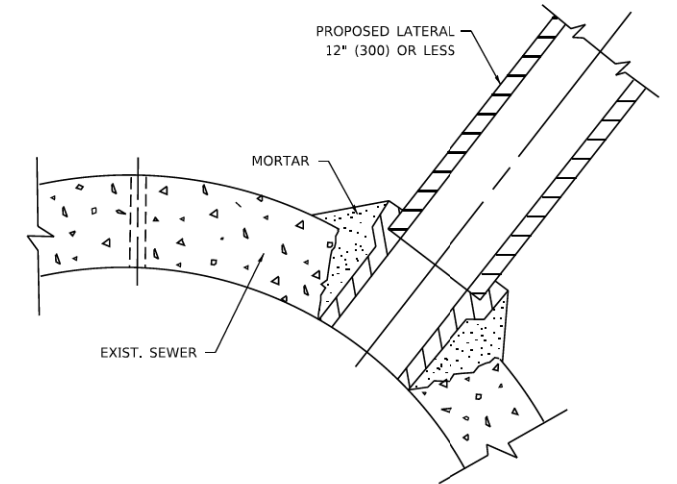
DETAIL "B"

CLASS SI CONCRETE COLLAR

CONSTRUCTION SEQUENCE

1. CUT THE EXISTING END OF THE PIPE SO AS TO PRESENT A FLUSH BUTT JOINT. BRUSH AND CLEAN ALL PIPES.
2. APPLY THE MASTIC JOINT SEALANT TO THE FIRST 6" (150) OF EACH PIPE.
3. BUTT THE PIPES TOGETHER LEAVING A MINIMUM OF 12' x 6' (300 x 150) DEEP EXCAVATION UNDER AND AROUND EACH PIPE END.
4. CUT A PIECE OF SHEET METAL GAGE NO. 19 1.1 (0.0418) 18" (450) WIDE BY THE OUTSIDE CIRCUMFERENCE OF THE PIPE PLUS 3" (75) LONG.
5. WRAP THE SHEET METAL AROUND THE PIPES, 9" (225) ON EACH SIDE OF THE JOINT, STARTING AT THE TOP OF THE PIPE.
6. LAP THE SHEET METAL AT LEAST 3" (75) AT THE TOP OF THE PIPE AND PLACE THE MASTIC JOINT SEALANT BETWEEN THE LAP.
7. PLACE TWO METAL BANDS AROUND THE SHEET METAL AND TIGHTEN.
8. WIPE OFF ANY EXCESS MASTIC JOINT SEALANT THAT OOOZES OUT FROM BETWEEN THE SHEET METAL AND THE PIPES.
9. PLACE CLASS SI CONCRETE AROUND THE JOINT.

* ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.



DETAIL "C"

PROPOSED LATERAL CONNECTION TO EXISTING SEWER OF 30" (750) OR LARGER

NOTES:

MATERIAL

MATERIAL USED FOR THE TEE OR WYE SECTION SHALL BE COMPATIBLE WITH THE EXISTING STORM SEWER OR THE PROPOSED STORM SEWER.

CONSTRUCTION METHODS

- THIS WORK SHALL BE CONSTRUCTED IN CONFORMANCE WITH THE APPLICABLE PORTIONS OF SECTION 550 OF THE STANDARD SPECIFICATIONS.
- CONNECTION TO AN EXISTING STORM SEWER SHALL BE BY EITHER OF THE FOLLOWING METHODS:
 - PROPOSED STORM SEWER CONNECTION TO EXISTING SEWER OF 27" (675) OR SMALLER SEE DETAIL "A" AND "B".
 - PROPOSED STORM SEWER CONNECTION TO EXISTING SEWER OF 30" (750) OR LARGER SEE DETAIL "C".

IF THE EXISTING SEWER PIPE IS CRACKED, BROKEN OR OTHERWISE DAMAGED BY THE CONTRACTOR IN MAKING THE CIRCULAR OPENING, THE CONTRACTOR SHALL REPLACE THAT SECTION OF PIPE WITH PIPE EQUAL AND SIMILAR IN ALL RESPECTS TO THE PIPE IN THE EXISTING SEWER, IN A CAREFUL WORKMANLIKE MANNER, WITHOUT EXTRA COMPENSATION.

GENERAL

CARE MUST BE TAKEN TO PREVENT DEBRIS FROM ENTERING THE SEWER. ALL DEBRIS WHICH ENTERS THE SEWER MUST BE REMOVED. THE SEWER MUST BE LEFT CLEAN AND UNOBSTRUCTED UPON COMPLETION OF THE CONTRACT.

CARE MUST BE TAKEN TO PREVENT ANY PART OF THE NEW PIPE CONNECTION FROM PROJECTING INTO THE EXISTING SEWER.

BASIS OF PAYMENT

TEE OR WYE CONNECTIONS SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE EACH FOR STORM SEWER TEE OR WYE OF THE TYPE AND SIZE SPECIFIED IN THE PLANS, THIS PRICE SHALL INCLUDE ALL EXCAVATION OF THE TRENCH, REMOVAL OF THE EXISTING STORM SEWER, FURNISHING AND INSTALLING THE SPECIFIED TEE OR WYE SECTION, FURNISHING AND INSTALLING THE REQUIRED CONCRETE COLLAR, AND ALL OTHER MATERIAL NECESSARY TO COMPLETE THIS WORK AS SHOWN AND SPECIFIED.

REMOVAL AND REINSTALLATION OF EXISTING STORM SEWER ADJACENT TO THE PROPOSED TEE OR WYE SECTION, FOR THE PURPOSE OF FACILITATING THE INSTALLATION OF THE TEE OR WYE SECTION, WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE WORK.

TRENCH BACKFILL, EXCAVATION IN ROCK AND REMOVAL AND REPLACEMENT OF UNSUITABLE MATERIAL BELOW PLAN BEDDING GRADE WILL BE PAID FOR SEPARATELY.

CONCRETE COLLAR FOR CONNECTING A PROPOSED STORM SEWER TO AN EXISTING STORM SEWER WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE COST OF THE PROPOSED STORM SEWER.

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		DRAWN	-	REVISED	R. SHAH 09-09-94
PLOT SCALE	50,0000 * / in.	CHECKED	-	REVISED	R. SHAH 10-25-94
PLOT DATE	3/27/2019	DATE	07-25-90	REVISED	R. SHAH 06-12-96

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DETAIL OF STORM SEWER
CONNECTION TO EXISTING SEWER

SCALE: NONE SHEET 1 OF 1 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	11-F3001-01-BT	WILL	234	123
BD500-01 (BD-7)		CONTRACT NO. 61G74		
ILLINOIS FED. AID PROJECT				

VARIABLE - TO MEET EXISTING DIMENSIONS AND FIELD CONDITIONS (SEE NOTE 2)

PROP. CONC. CURB OR CURB AND GUTTER REPLACEMENT IN ACCORDANCE WITH STATE STANDARD 606001. (SEE NOTE 2)

SAW CUT FULL DEPTH - INCLUDED IN THE COST OF SIDEWALK, DRIVEWAY OR MEDIAN SURFACE REMOVAL PAY ITEM.

SEE STATE STANDARD 606001

18" (450) MAX.

EXISTING OR PROPOSED HMA SURFACE (IF APPLICABLE)

¼" (5) **

EXISTING SIDEWALK, DRIVEWAY, MEDIAN SURFACE, SOD OR GROUND.

PROPOSED SIDEWALK, DRIVEWAY PAVEMENT, MEDIAN SURFACE OR SODDING SALT TOLERANT WITH TOP SOIL, 4" (100) SOD RESTORATION (SEE NOTE 1).

EXISTING CONCRETE PAVEMENT, CONCRETE BASE COURSE OR FLEXIBLE PAVEMENT

3" (75) MIN.

SUITABLE BACKFILL MATERIAL (INCLUDED IN THE COST OF CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT)

* 3" (75) MINIMUM FROM TOP AND BOTTOM OF THE CONCRETE PAVEMENT OR BASE COURSE.

** IF THE FINAL SURFACE OF THE PAVEMENT IS CONCRETE, THE GUTTER IS TO BE FLUSH WITH THE PAVEMENT.

PROPOSED ¾" (20) PREFORMED EXPANSION JOINT AT CONCRETE SIDEWALKS, DRIVEWAYS, AND MEDIANS. (INCLUDED IN THE COST OF CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT.)

UNSUITABLE SUB-BASE MATERIAL TO BE REMOVED, IF DIRECTED BY THE ENGINEER, SHALL BE REPLACED WITH EITHER SUB-BASE GRANULAR MATERIAL, TYPE B OR ADDITIONAL THICKNESS OF CONCRETE. REMOVAL AND REPLACEMENT 4" (100) OR LESS IS INCLUDED IN THE COST OF CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT.

REMOVAL AND REPLACEMENT IN EXCESS OF 4" (100) WILL BE PAID FOR IN ACCORDANCE WITH ARTICLE 109.04 OF THE STANDARD SPECIFICATIONS.

PROPOSED #6 (20) EPOXY COATED TIE BARS 24" (600) LONG AT 24" (600) CENTERS WILL NOT BE PAID FOR SEPARATELY. DELETE EPOXY COATED TIE BARS IF EXISTING TIE BARS ARE USUABLE AS DETERMINED BY THE ENGINEER. (SEE NOTE 3).

NOTE:

- SIDEWALK, DRIVEWAY PAVEMENT OR MEDIAN SURFACE SHALL BE SIMILAR TO THE MATERIAL BEING REMOVED AND WILL BE PAID FOR SEPARATELY.
SODDING, SALT TOLERANT AND TOP SOIL, FURNISH AND PLACE 4" WILL BE PAID FOR SEPARATELY.
- FERTILIZER FOR THE PLACEMENT OF THE SOD IS NOT REQUIRED.
- CURB OR CURB AND GUTTER REPLACEMENT SHALL MATCH THE SHAPE OF THE EXISTING CURB OR CURB AND GUTTER UNLESS OTHERWISE SPECIFIED.
- FOR CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT ADJACENT TO FLEXIBLE PAVEMENT DELETE EPOXY COATED TIE BARS.
- LONGITUDINAL BARS, IF ENCOUNTERED IN THE EXISTING CURB OR CURB AND GUTTER, ARE NOT TO BE REPLACED. CUTTING AND REMOVING LONGITUDINAL BARS SHALL BE INCLUDED IN THE COST OF CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT.
- THE COST OF HMA SURFACE REMOVAL IN THE EXISTING GUTTER FLAG SHALL BE INCLUDED IN THE COST OF THE CURB AND GUTTER REMOVAL AND REPLACEMENT.
- THE REMOVAL AND REPLACEMENT OF THE EXISTING CURB OR CURB AND GUTTER SHALL BE DONE IN ACCORDANCE WITH THE APPLICABLE PORTIONS OF SECTION 440 AND 606 OF THE STANDARD SPECIFICATIONS.
- THE LOCATIONS OF REMOVAL AND REPLACEMENT OF EXISTING CURB OR CURB AND GUTTER SHALL BE DETERMINED BY THE RESIDENT ENGINEER AT THE TIME OF CONSTRUCTION.

BASIS OF PAYMENT

THIS WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER FOOT (METER) FOR "CURB REMOVAL AND REPLACEMENT" OR "COMBINATION CONCRETE CURB AND GUTTER REMOVAL AND REPLACEMENT".

CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

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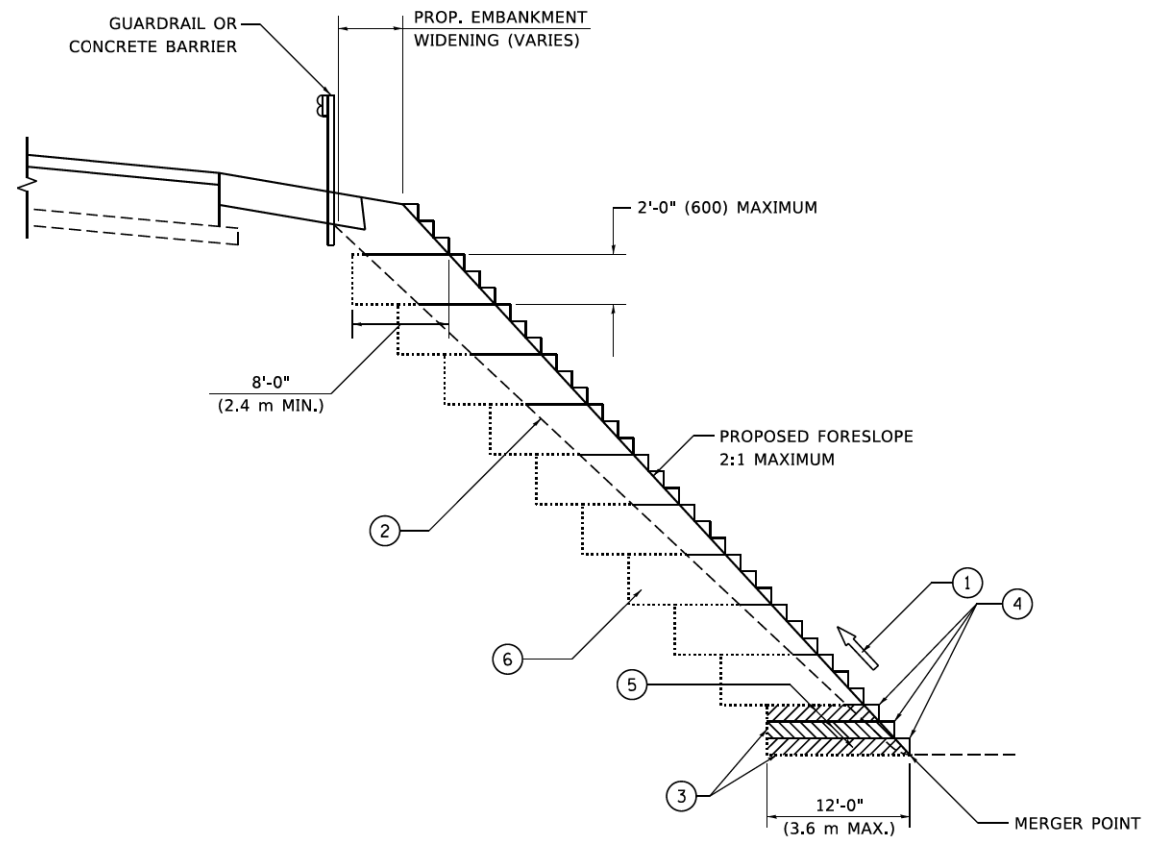
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	DRAWN -	REVISED - A. ABBAS 03-21-97
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PLOT DATE = 3/27/2019	DATE - 03-11-94	REVISED - R. BORO 12-15-09

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CURB OR CURB AND GUTTER
REMOVAL AND REPLACEMENT

SCALE: NONE SHEET 1 OF 1 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	11-F3001-01-BT	WILL	234	124
BD600-06 (BD-24)			CONTRACT NO. 61G74	
ILLINOIS FED. AID PROJECT				



**TYPICAL BENCHING DETAIL
FOR EMBANKMENT**

NOTES:

- ① CONSTRUCT SUCCEEDING BENCH CUTS AND EMBANKMENT PLACEMENT AND COMPACTION FROM BOTTOM TO TOP IN STAIRSTEP FASHION.
- ② EXISTING FORESLOPE PREPARED IN ACCORDANCE WITH ARTICLE 205.03 OF THE STANDARD SPECIFICATIONS.
- ③ BENCH CUT EXISTING SLOPE TYPICAL FOR EACH STEP.
- ④ TRIM TO FINAL SLOPE.
- ⑤ EQUAL 8-INCH (200) LIFTS OF EMBANKMENT COMPACTED IN ACCORDANCE WITH ARTICLE 205.05 OF THE STANDARD SPECIFICATIONS.
- ⑥ EXCAVATION OF BENCH CUTS WITHIN EXISTING EMBANKMENT WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER CUBIC METER OR CUBIC YARD FOR "EARTH EXCAVATION". THIS PRICE WILL INCLUDE ALL LABOR AND MATERIAL, NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
- ⑦ SLOPES SHALL BE BENCHED ACCORDING TO THIS DETAIL WHEN THE SLOPE IS STEEPER THAN 4:1 AND THE HEIGHT IS GREATER THAN 5' (1.5 m).

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS)
UNLESS OTHERWISE SHOWN.

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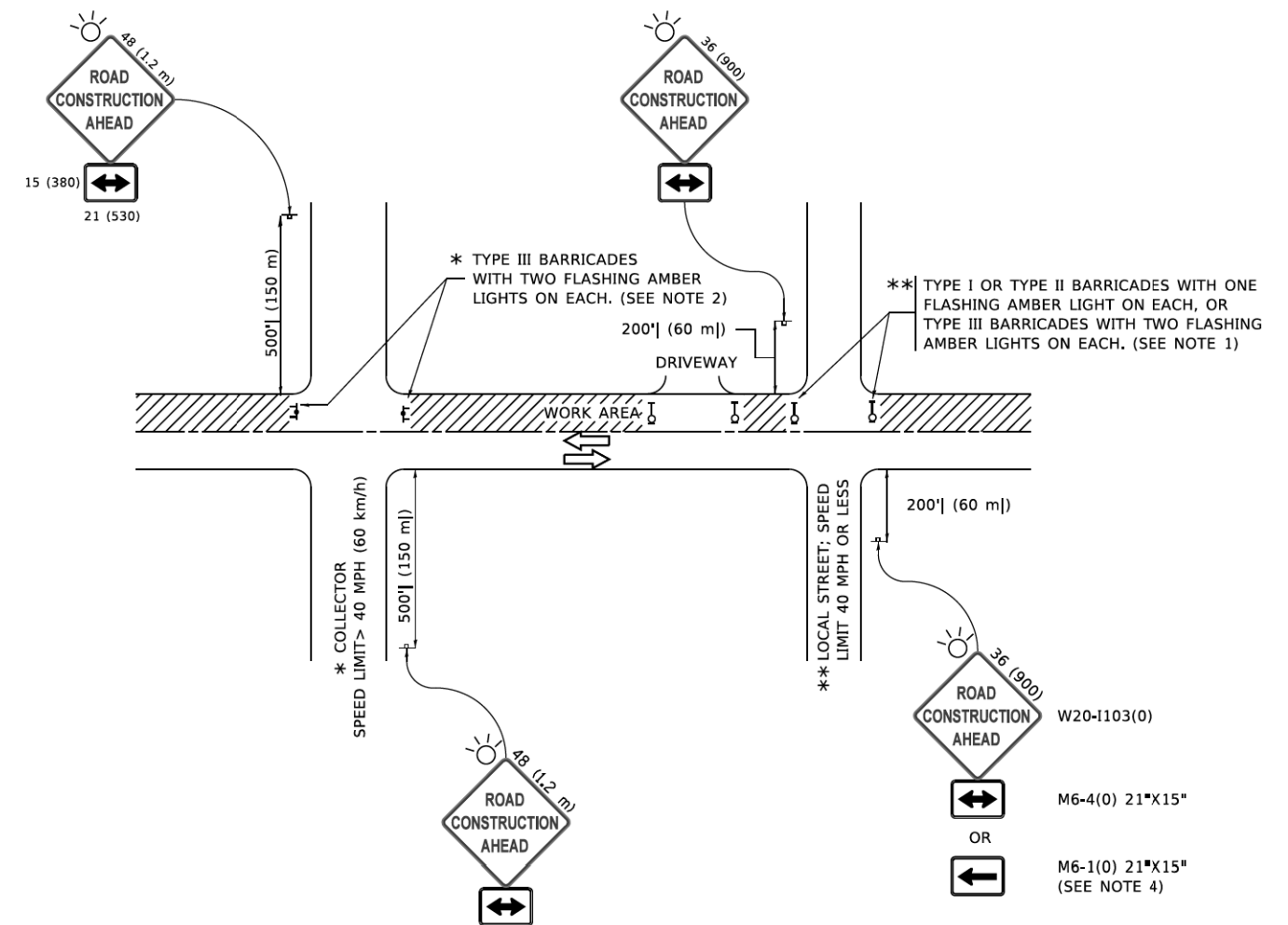
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50,0000' / in.	DATE - 06-16-04	REVISED -
PLOT DATE		
3/27/2019		

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**BENCHING DETAIL
FOR EMBANKMENT WIDENING**

SCALE: NONE SHEET 1 OF 1 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	11-F3001-01-BT	WILL	234	126
BD-51		CONTRACT NO. 61G74		
ILLINOIS FED. AID PROJECT				



NOTES:

- SIDE ROAD WITH A SPEED LIMIT OF 40 MPH (60 km/h) OR LESS AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
 - ONE "ROAD CONSTRUCTION AHEAD" SIGN 36 x 36 (900x900) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 200' (60 m) IN ADVANCE OF THE MAIN ROUTE.
 - THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE I, TYPE II OR TYPE III BARRICADES, 1/3 OF THE CROSS SECTION OF THE CLOSED PORTION.
- SIDE ROAD WITH A SPEED LIMIT GREATER THAN 40 MPH (60 km/h) AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
 - ONE "ROAD CONSTRUCTION AHEAD" SIGN 48 x 48 (1.2 m x 1.2 m) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 500' (150 m) IN ADVANCE OF THE MAIN ROUTE.
 - THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE III BARRICADES, 1/2 OF THE CROSS SECTION OF THE CLOSED PORTION.
- CONES MAY BE SUBSTITUTED FOR BARRICADES OR DRUMS AT HALF THE SPACING DURING DAY OPERATIONS. CONES SHALL BE A MINIMUM OF 28 (710) IN HEIGHT.
- SIGNING AND THE WORK ZONE, A SINGLE HEADED ARROW (M6-1) SHALL BE USED IN LIEU OF THE DOUBLE HEADED ARROW (M6-4).
- WHEN THE SIDE ROAD LIES BETWEEN THE BEGINNING OF THE MAINLINE
- WHEN WORK IS BEING PERFORMED ON A SIDE ROAD OR DRIVEWAY, FOLLOW THE APPLICABLE STANDARD(S). THE DIRECTIONAL ARROW (M6-1 OR M6-4) SHALL BE COVERED OR REMOVED WHEN NO LONGER CONSISTENT WITH THE TRAFFIC CONTROL SET-UP.
- ADVANCE WARNING SIGNS ARE TO BE OMITTED ON DRIVEWAYS UNLESS OTHERWISE SPECIFIED IN THE PLANS OR BY THE ENGINEER.
- THE TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS SHALL BE INCLUDED IN THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

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

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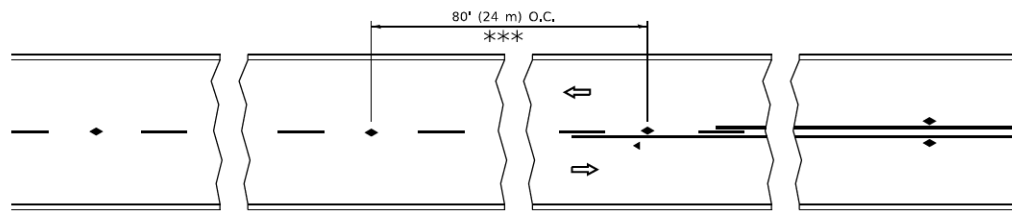
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DRAWN	-	REVISIONS	-	REVISED	T. RAMMACHER 01-06-00
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PLOT DATE	3/4/2019	DATE	06-89	REVISED	A. SCHUETZE 09-15-16

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TRAFFIC CONTROL AND PROTECTION FOR
SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS**

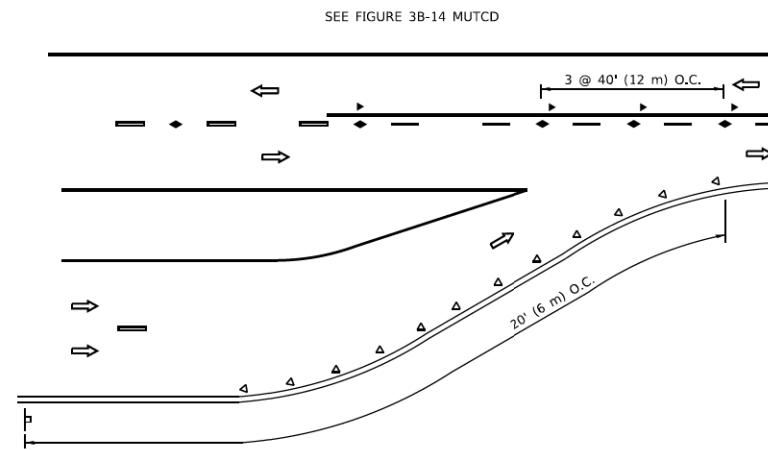
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F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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TC-10		CONTRACT NO. 61G74		
ILLINOIS FED. AID PROJECT				

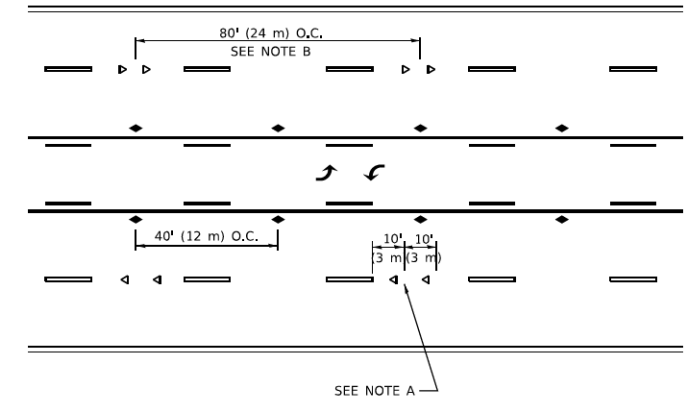


*** REDUCE TO 40' (12 m) O.C. ON CURVES WITH POSTED OR ADVISORY SPEED 45 M.P.H. (70 km/h) OR LESS.

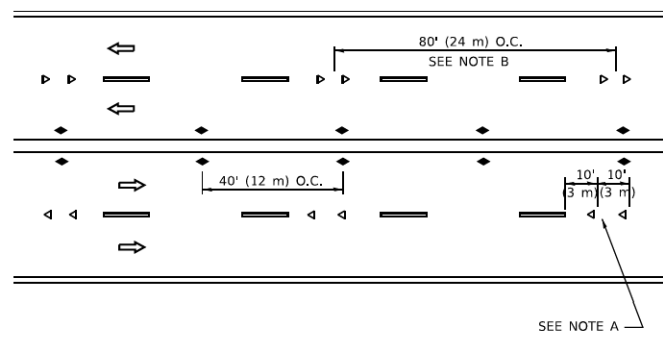
TWO-LANE/TWO-WAY



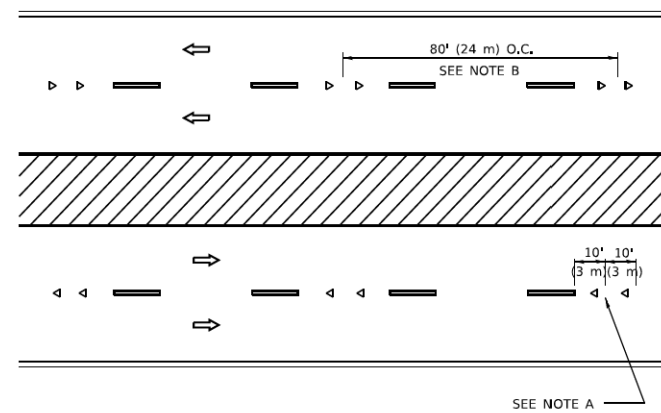
LANE REDUCTION TRANSITION



TWO-WAY LEFT TURN



MULTI-LANE/UNDIVIDED



MULTI-LANE/DIVIDED

GENERAL NOTES

1. MARKERS USED WITH DASHED LINES SHALL BE CENTERED IN THE GAP BETWEEN SEGMENTS.
2. MARKERS USED ADJACENT TO SOLID LINES SHALL BE OFFSET 2 TO 3 (50 TO 75) TOWARD TRAFFIC AS SHOWN.
3. MARKERS THROUGH TANGENTS LESS THAN 500' (150 m) IN LENGTH BETWEEN CURVES SHALL BE INSTALLED AT THE LESSER OF THE TWO CURVE SPACINGS.
4. MARKERS ARE TO BE USED ADJACENT TO BOTH SOLID WHITE LINES IN DUAL LEFT TURN LANES

SYMBOLS

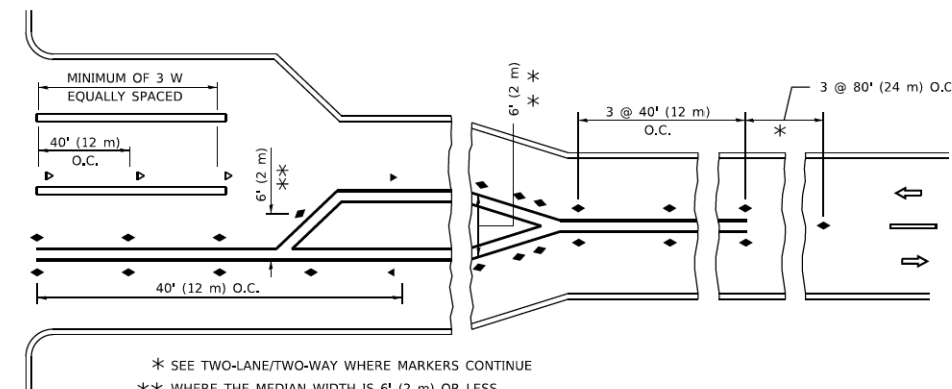
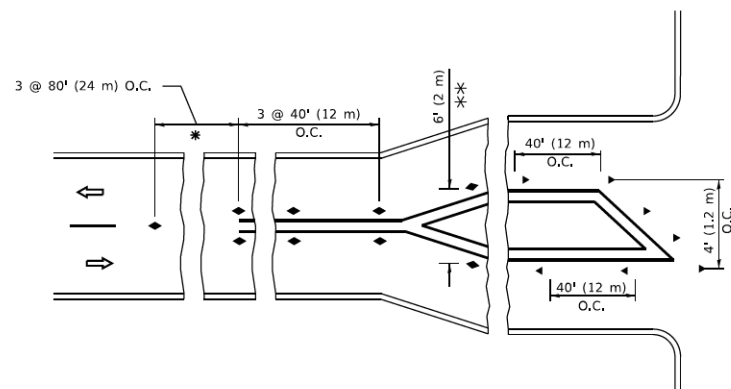
- YELLOW STRIPE
- WHITE STRIPE
- ◄ ONE-WAY AMBER MARKER
- ◄ ONE-WAY CRYSTAL MARKER (W/O)
- ◆ TWO-WAY AMBER MARKER

LANE MARKER NOTES

- A. USE DOUBLE LANE LINE MARKERS SPACED AS SHOWN.
- B. REDUCE TO 40' (12 m) O.C. ON CURVES WHERE ADVISORY SPEEDS ARE 10 M.P.H (20 km/h) LOWER THAN POSTED SPEEDS.

DESIGN NOTES

1. DOUBLE LANE LINE MARKERS SHALL BE USED UNLESS SPECIFIED OTHERWISE.
2. EXCEPT AS SHOWN ON THE LANE REDUCTION TRANSITION AND FREEWAY EXIT RAMP DETAIL, MARKERS ARE NOT TO BE SPECIFIED ON RIGHT EDGE LINES.
3. THE EXACT MARKER LIMITS, SPACING, AND COLOR SHALL BE INCLUDED IN THE PLANS WHEN STANDARD SPECIFICATIONS ARE NOT BEING USED.
4. MARKERS SHOULD NOT BE USED ALONGSIDE CURBS EXCEPT FOR EXTREMELY SHORT SECTIONS OF CURBS WHERE NOT MORE THAN TWO MARKERS WOULD BE INVOLVED.



TURN LANES

* SEE TWO-LANE/TWO-WAY WHERE MARKERS CONTINUE
 ** WHERE THE MEDIAN WIDTH IS 6' (2 m) OR LESS USE TWO-WAY MARKERS.

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

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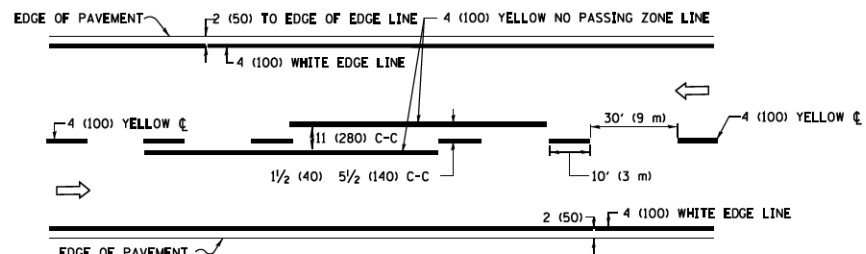
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PLOT DATE = 3/4/2019	CHECKED -	REVISED - C. JUCIUS 09-09-09
	DATE -	REVISED - C. JUCIUS 07-01-13

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

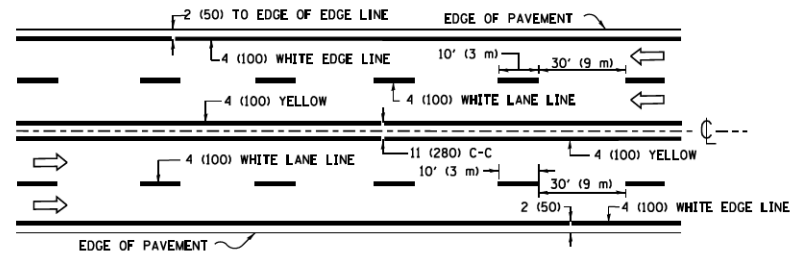
**TYPICAL APPLICATIONS
 RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT)**

SCALE: NONE SHEET 1 OF 1 SHEETS STA. TO STA.

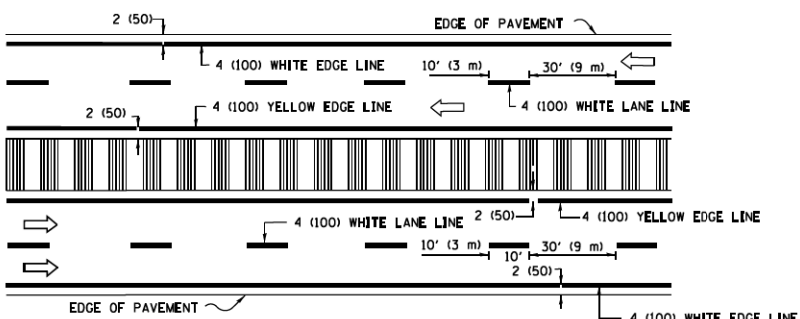
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	11-F3001-01-BT	WILL	234	128
TC-11			CONTRACT NO. 61G74	
ILLINOIS FED. AID PROJECT				



2-LANE ROADWAY

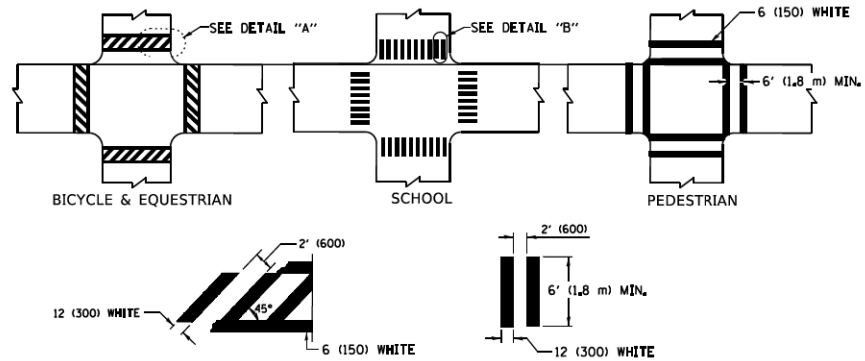


MULTI-LANE UNDIVIDED



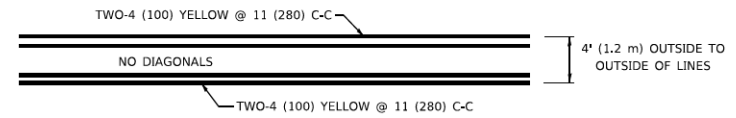
MULTI-LANE DIVIDED WITH MEDIAN

TYPICAL LANE AND EDGE LINE MARKING

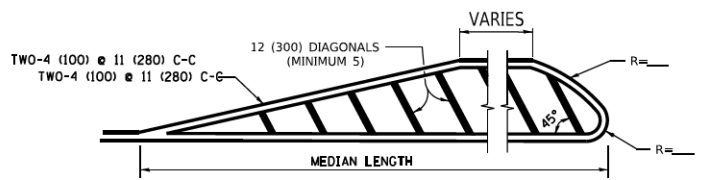


TYPICAL CROSSWALK MARKING

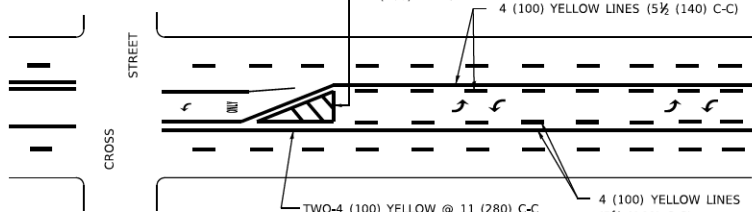
* MARKINGS SHALL BE INSTALLED PARALLEL TO THE CENTERLINE OF THE ROAD WHICH IT CROSSES



4' (1.2 m) WIDE MEDIANS ONLY

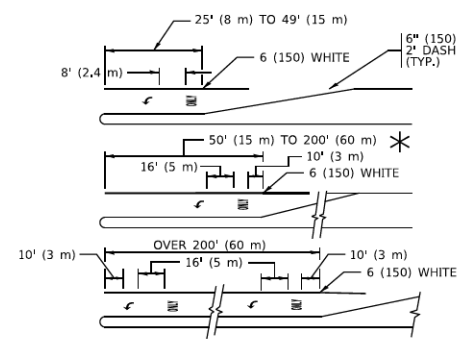


MEDIANS OVER 4' (1.2 m) WIDE



MEDIAN WITH TWO-WAY LEFT TURN LANE TYPICAL PAINTED MEDIAN MARKING

A MINIMUM OF TWO PAIRS OF TURN ARROWS SHALL BE USED, WHITE IN COLOR, ADDITIONAL PAIRS SHALL BE PLACED AT 200' (60 m) TO 300' (90 m) INTERVALS.

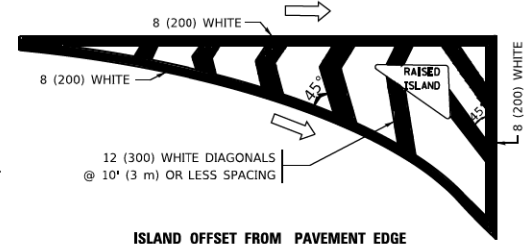


TYPICAL LEFT (OR RIGHT) TURN LANE

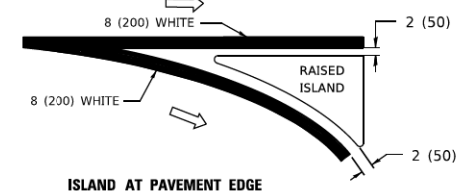
TYPICAL TURN LANE MARKING

FULL SIZE LETTERS 8' (2.4 m) AND ARROWS SHALL BE USED. AREA = 15.6 SQ. FT. (1.5 m²) AREA = 20.8 SQ. FT. (1.9 m²)

* TURN LANES IN EXCESS OF 400' (120 m) IN LENGTH MAY HAVE AN ADDITIONAL SET OF ARROW - "ONLY" INSTALLED MIDWAY BETWEEN THE OTHER TWO SETS OF ARROW - "ONLY".

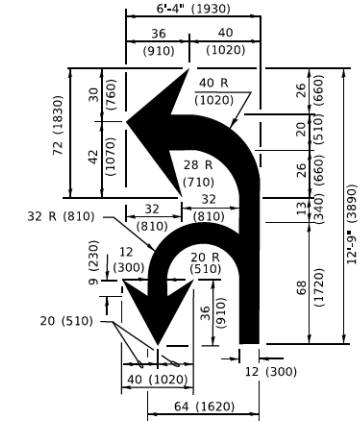


ISLAND OFFSET FROM PAVEMENT EDGE

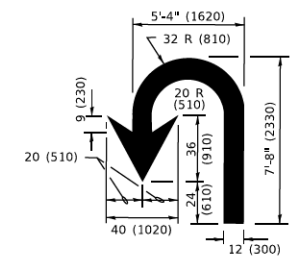


ISLAND AT PAVEMENT EDGE

TYPICAL ISLAND MARKING



COMBINATION LEFT AND U-TURN



U-TURN

D(FT)	SPEED LIMIT
345	30
425	35
500	40
580	45
665	50
750	55

LANE REDUCTION TRANSITION

* LANE REDUCTION ARROWS REQUIRED AT SPEEDS OF 45 MPH OR GREATER OR WHEN SPECIFIED IN PLANS.

TYPE OF MARKING	WIDTH OF LINE	PATTERN	COLOR	SPACING / REMARKS
CENTERLINE ON 2 LANE PAVEMENT	4 (100)	SKIP-DASH	YELLOW	10' (3 m) LINE WITH 30' (9 m) SPACE
CENTERLINE ON MULTI-LANE UNDIVIDED PAVEMENT	2 @ 4 (100)	SOLID	YELLOW	11 (280) C-C
NO PASSING ZONE LINES: FOR ONE DIRECTION FOR BOTH DIRECTIONS	4 (100) 2 @ 4 (100)	SOLID SOLID	YELLOW YELLOW	5 1/2 (140) C-C FROM SKIP-DASH CENTERLINE 11 (280) C-C OMIT SKIP-DASH CENTERLINE BETWEEN
LANE LINES	4 (100) 5 (125) ON FREEWAYS	SKIP-DASH SKIP-DASH	WHITE WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE
DOTTED LINES (EXTENSIONS OF CENTER, LANE OR TURN LANE MARKINGS)	SAME AS LINE BEING EXTENDED	SKIP-DASH	SAME AS LINE BEING EXTENDED	2' (600) LINE WITH 6' (1.8 m) SPACE
EDGE LINES	4 (100)	SOLID	YELLOW-LEFT WHITE-RIGHT	OUTLINE MEDIANS IN YELLOW
TURN LANE MARKINGS	6 (150) LINE: FULL SIZE LETTERS & SYMBOLS (8' (2.4m))	SOLID	WHITE	SEE TYPICAL TURN LANE MARKING DETAIL
TWO WAY LEFT TURN MARKING	2 @ 4 (100) EACH DIRECTION 8' (2.4m) LEFT ARROW	SKIP-DASH AND SOLID IN PAIRS	YELLOW WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE FOR SKIP-DASH; 5 1/2 (140) C-C BETWEEN SOLID LINE AND SKIP-DASH LINE SEE TYPICAL TWO-WAY LEFT TURN MARKING DETAIL
CROSSWALK LINES (PEDESTRIAN) A. DIAGONALS (BIKE & EQUESTRIAN) B. LONGITUDINAL BARS (SCHOOL)	2 @ 6 (150) 2 (300) @ 45° 12 (300) @ 90°	SOLID SOLID SOLID	WHITE WHITE WHITE	NOT LESS THAN 6' (1.8 m) APART 2' (600) APART 2' (600) APART SEE TYPICAL CROSSWALK MARKING DETAILS.
STOP LINES	24 (600)	SOLID	WHITE	PLACE 4' (1.2 m) IN ADVANCE OF AND PARALLEL TO CROSSWALK, IF PRESENT, OTHERWISE, PLACE AT DESIRED STOPPING POINT. PARALLEL TO CROSSROAD CENTERLINE, WHERE POSSIBLE
PAINTED MEDIANS	2 @ 4 (100) WITH 12 (300) DIAGONALS @ 45° NO DIAGONALS USED FOR 4' (1.2 m) WIDE MEDIANS	SOLID	YELLOW: TWO WAY TRAFFIC WHITE: ONE WAY TRAFFIC	11 (280) C-C FOR THE DOUBLE LINE SEE TYPICAL PAINTED MEDIAN MARKING.
GORE MARKING AND CHANNELIZING LINES	8 (200) WITH 12 (300) DIAGONALS @ 45°	SOLID	WHITE	DIAGONALS: 15' (4.5 m) C-C (LESS THAN 30MPH (50 km/h)) 20' (6 m) C-C (30 MPH (50 km/h) TO 45MPH (70 km/h)) 30' (9 m) C-C (OVER 45MPH (70 km/h))
RAILROAD CROSSING	24 (600) TRANSVERSE LINES; "RR" 15' 6" (1.8 m) LETTERS; 16 (400) LINE FOR "X"	SOLID	WHITE	SEE STATE STANDARD 780001 AREA OF: "RR" = 3.6 SQ. FT. (0.33 m ²) EACH "X" = 54.0 SQ. FT. (5.0 m ²)
SHOULDER DIAGONALS (REQUIRED FOR SHOULDERS ≥ 8')	12 (300) @ 45°	SOLID	WHITE - RIGHT YELLOW - LEFT	50' (15 m) C-C (LESS THAN 30MPH (50 km/h)) 75' (25 m) C-C (30 MPH (50 km/h) TO 45MPH (70 km/h)) 150' (45 m) C-C (OVER 45MPH (70 km/h))
U TURN ARROW	SEE DETAIL	SOLID	WHITE	16.3 SF
2 ARROW COMBINATION LEFT AND U TURN	SEE DETAIL	SOLID	WHITE	30.4 SF

FOR FURTHER DETAILS ON PAVEMENT MARKING REFER TO STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND STATE STANDARD 780001.

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

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	DATE - 03-19-90	REVISED - C. JUCIUS 04-12-16

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

DISTRICT ONE		F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
TYPICAL PAVEMENT MARKINGS			11-F3001-01-BT	WILL	234	129
SCALE: NONE	SHEET 1 OF 2 SHEETS	STA.	TO STA.	CONTRACT NO. 61G74		

ILLINOIS FED. AID PROJECT	
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ROUTE MARKERS

FOR U.S. ROUTES
M1-40-2424

FOR ILLINOIS ROUTES
M1-50-2424

R.R. UNMARKED ROUTES
SPECIAL 24" x 18" VARIABLE
4" BLACK LETTERS ON WHITE
REFLECTIVE BACKGROUND

ARROWS SIGNS

M5-1L-2115

M5-1R-2115

M6-1-2115

M6-2-2115

M6-3-2115

CARDINAL DIRECTION & DETOUR SIGNS

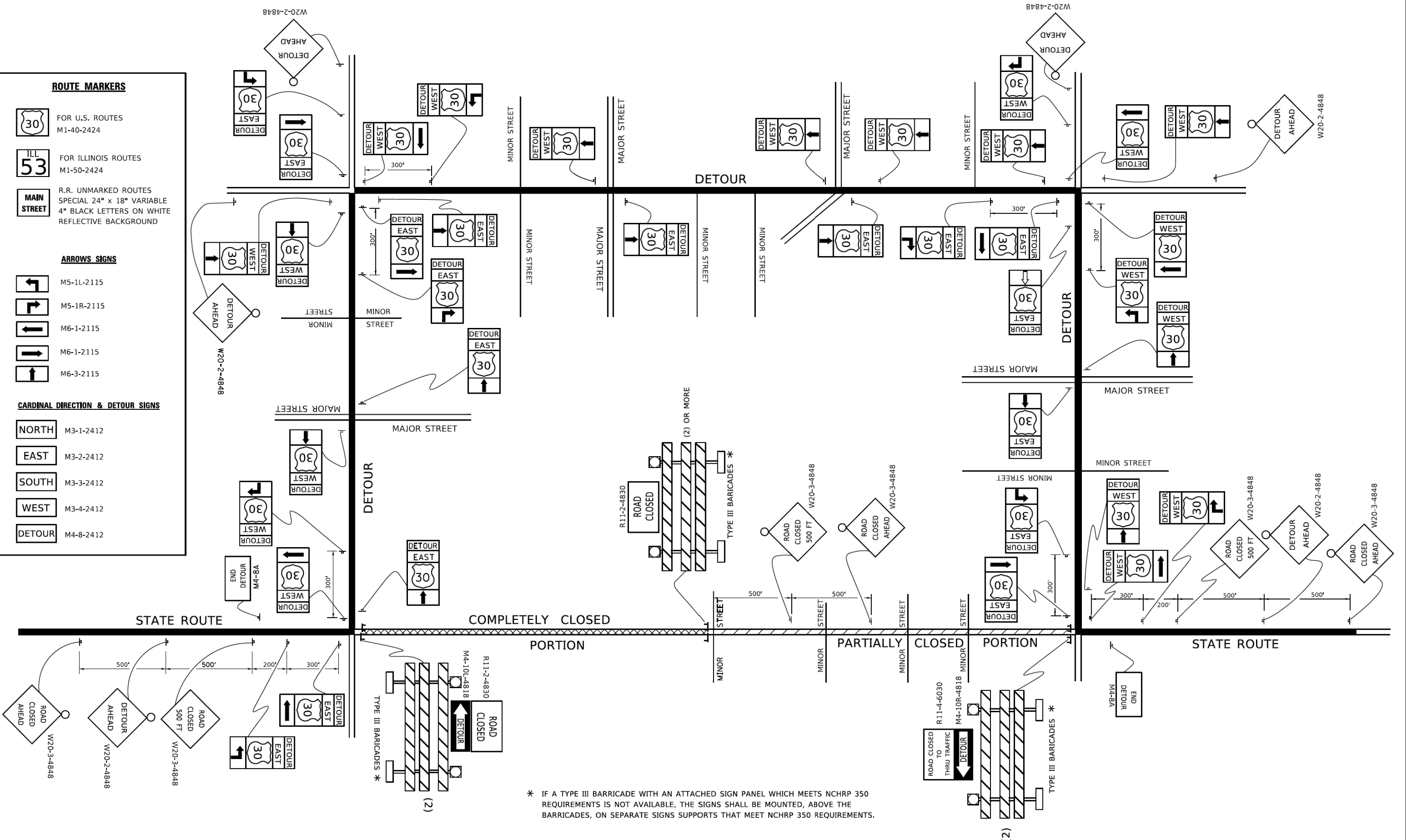
NORTH M3-1-2412

EAST M3-2-2412

SOUTH M3-3-2412

WEST M3-4-2412

DETOUR M4-8-2412



* IF A TYPE III BARRICADE WITH AN ATTACHED SIGN PANEL WHICH MEETS NCHRP 350 REQUIREMENTS IS NOT AVAILABLE, THE SIGNS SHALL BE MOUNTED, ABOVE THE BARRICADES, ON SEPARATE SIGNS SUPPORTS THAT MEET NCHRP 350 REQUIREMENTS.

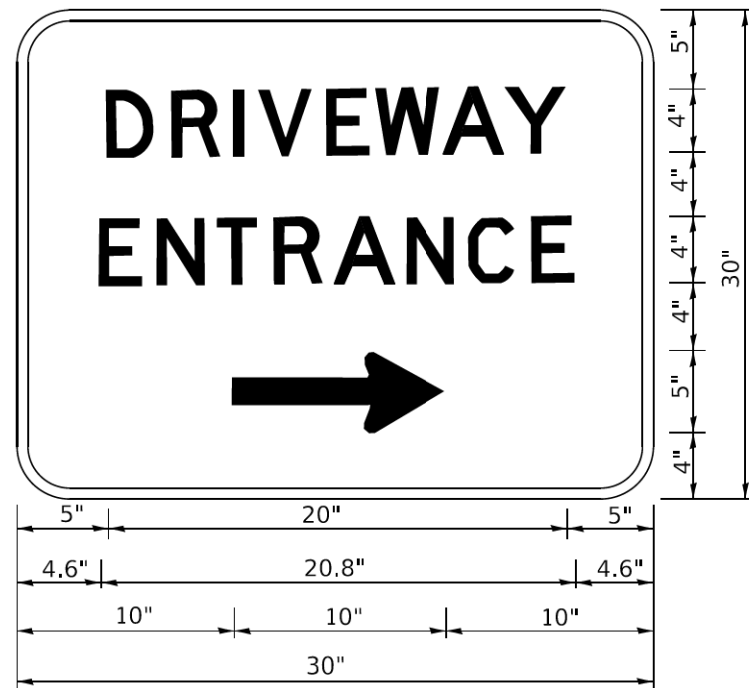
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**DETOUR SIGNING
FOR CLOSING STATE HIGHWAYS**

SCALE: NONE SHEET 1 OF 1 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	11-F3001-01-BT	WILL	234	130
TC-21			CONTRACT NO. 61G74	
ILLINOIS FED. AID PROJECT				



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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PLOT SCALE	50,0000 * / in.	DATE	-	REVISED	-	
PLOT DATE	3/4/2019					

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DRIVEWAY ENTRANCE SIGNING

SCALE: NONE SHEET 1 OF 2 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	11-F3001-01-BT	WILL	234	132
TC-26			CONTRACT NO. 61G74	
ILLINOIS FED. AID PROJECT				

TRAFFIC SIGNAL LEGEND

(NOT TO SCALE)

ITEM	EXISTING	PROPOSED	ITEM	EXISTING	PROPOSED	ITEM	EXISTING	PROPOSED
CONTROLLER CABINET			HANDHOLE -SQUARE			SIGNAL HEAD		
COMMUNICATION CABINET			-ROUND			-(P) PROGRAMMABLE SIGNAL HEAD		
MASTER CONTROLLER			HEAVY DUTY HANDHOLE -SQUARE					
MASTER MASTER CONTROLLER			-ROUND					
UNINTERRUPTABLE POWER SUPPLY			DOUBLE HANDHOLE			SIGNAL HEAD WITH BACKPLATE		
SERVICE INSTALLATION -(P) POLE MOUNTED			JUNCTION BOX			-(P) PROGRAMMABLE SIGNAL HEAD		
SERVICE INSTALLATION -(G) GROUND MOUNTED			RAILROAD CANTILEVER MAST ARM			-(RB) RETROREFLECTIVE BACKPLATE		
-(GM) GROUND MOUNTED METERED			RAILROAD FLASHING SIGNAL					
TELEPHONE CONNECTION			RAILROAD CROSSING GATE					
STEEL MAST ARM ASSEMBLY AND POLE			RAILROAD CROSSBUCK			PEDESTRIAN SIGNAL HEAD AT RAILROAD INTERSECTIONS		
ALUMINUM MAST ARM ASSEMBLY AND POLE			RAILROAD CONTROLLER CABINET			PEDESTRIAN SIGNAL HEAD WITH COUNTDOWN TIMER		
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH LUMINAIRE			UNDERGROUND CONDUIT (UC), GALVANIZED STEEL			ILLUMINATED SIGN "NO LEFT TURN"/"NO RIGHT TURN"		
SIGNAL POST -(BM) BARREL MOUNTED - TEMPORARY			TEMPORARY SPAN WIRE, TETHER WIRE, AND CABLE			NUMBER OF CONDUCTORS, ELECTRIC CABLE NO. 14, UNLESS NOTED OTHERWISE. ALL DETECTOR LOOP CABLE TO BE SHIELDED		
WOOD POLE			SYSTEM ITEM	S	SP	GROUND CABLE IN CONDUIT, NO. 6 SOLID COPPER (GREEN)		
GUY WIRE			INTERSECTION ITEM	I	IP	ELECTRIC CABLE IN CONDUIT, TRACER NO. 14 1/C		
SIGNAL HEAD			REMOVE ITEM		R	COAXIAL CABLE		
SIGNAL HEAD WITH BACKPLATE			RELOCATE ITEM		RL	VENDOR CABLE		
SIGNAL HEAD OPTICALLY PROGRAMMED			ABANDON ITEM		A	COPPER INTERCONNECT CABLE, NO. 18, 3 PAIR TWISTED, SHIELDED		
FLASHER INSTALLATION -(FS) SOLAR POWERED			CONTROLLER CABINET AND FOUNDATION TO BE REMOVED		RCF	FIBER OPTIC CABLE -NO. 62.5/125, MM12F		
			MAST ARM POLE AND FOUNDATION TO BE REMOVED		RMF	-NO. 62.5/125, MM12F SM12F		
			SIGNAL POST AND FOUNDATION TO BE REMOVED		RPF	-NO. 62.5/125, MM12F SM24F		
PEDESTRIAN SIGNAL HEAD			DETECTOR LOOP, TYPE I			GROUND ROD		
PEDESTRIAN PUSH BUTTON -(APS) ACCESSIBLE PEDESTRIAN PUSH BUTTON			PREFORMED DETECTOR LOOP			-(C) CONTROLLER		
RADAR DETECTION SENSOR			SAMPLING (SYSTEM) DETECTOR			-(M) MAST ARM		
VIDEO DETECTION CAMERA			INTERSECTION AND SAMPLING (SYSTEM) DETECTOR			-(P) POST		
RADAR/VIDEO DETECTION ZONE			QUEUE AND SAMPLING (SYSTEM) DETECTOR			-(S) SERVICE		
PAN, TILT, ZOOM (PTZ) CAMERA			WIRELESS DETECTOR SENSOR					
EMERGENCY VEHICLE LIGHT DETECTOR			WIRELESS ACCESS POINT					
CONFIRMATION BEACON								
WIRELESS INTERCONNECT								
WIRELESS INTERCONNECT RADIO REPEATER								

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PLOT DATE = 2/8/2021	CHECKED - KLM	REVISED -
	DATE - 2/09/2021	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**VETERANS MEMORIAL TRAIL
STANDARD TRAFFIC SIGNAL DESIGN DETAILS**

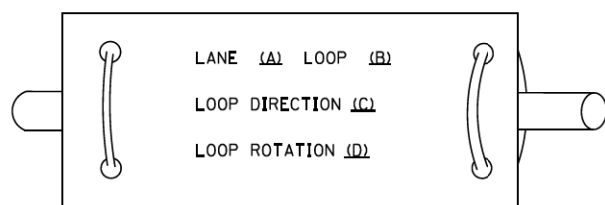
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	11-F3001-01-BT	WILL	234	133
CONTRACT NO. 61G74				
ILLINOIS FED. AID PROJECT				

SCALE: 1"=5' SHEET 1 OF 7 SHEETS STA. TO STA.

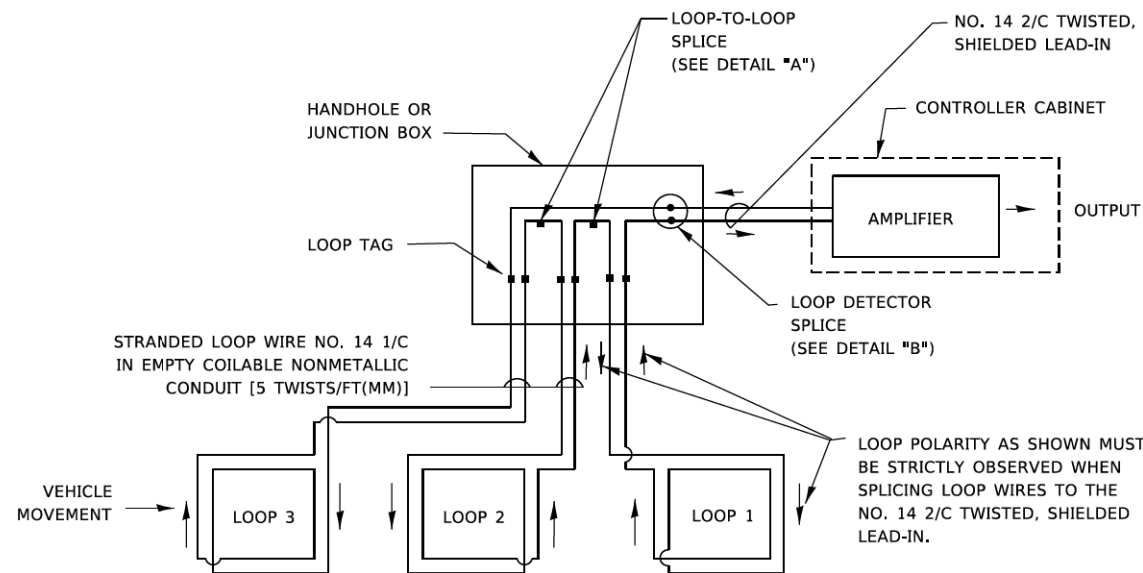
LOOP DETECTOR NOTES

1. EACH PAIR OF LOOP WIRES SHALL BE PLACED IN A SEPARATE EMPTY COILABLE NONMETALLIC CONDUIT FROM THE EDGE OF PAVEMENT TO THE HANDHOLE. SPACING BETWEEN THE HOLES DRILLED IN THE PAVEMENT SHALL NOT BE LESS THAN 6" (150 mm). EMPTY COILABLE NONMETALLIC CONDUIT SHALL BE INCLUDED IN THE COST OF THE LOOP WIRE.
2. THE NUMBER OF LOOP TURNS SHALL BE AS RECOMMENDED BY THE AMPLIFIER MANUFACTURER. ALL ADJACENT SIDES OF THE LOOPS SHALL BE INSTALLED IN SUCH A WAY THAT THE CURRENT FLOW IS IN THE SAME DIRECTION TO REINFORCE ITS MAGNETIC FIELDS FOR SMALL VEHICLE DETECTION.
3. EACH LOOP LEAD-IN SHALL BE IDENTIFIED AND PERMANENTLY TAGGED IN THE HANDHOLE. EACH LEAD-IN CABLE TAG SHALL INDICATE THE LOCATION OF THE LOOP, LOOP ROTATION (CLOCKWISE/COUNTERCLOCKWISE), LOOP LEAD-IN DIRECTION (IN OR OUT), LOOP CABLE NUMBER AND LOCATION IN CABINET, AND NUMBER OF TURNS IN THE DETECTOR LOOPS IN WATER PROOF INK AS INDICATED ON THE DISTRICT 1 STANDARD TRAFFIC SIGNAL DESIGN DETAIL. THE CONTRACTOR SHALL MARK LOOP LOCATIONS ON RECORD DRAWINGS AND PRESENT TO THE ENGINEER AFTER FINAL INSPECTION. LOOPS SHALL BE MARKED BY LANE AND LOOP NUMBER. SEE DETAIL BELOW.
4. ALL LOOP CABLE SHALL BE FASTENED WITH PLASTIC TIE WRAP TO THE HANDHOLE HOOKS.
5. IN ASPHALT PAVEMENT, LOOPS SHOULD BE PLACED IN THE BINDER AND DIVEHOLES MARKED AT THE CURB WITH A SAW-CUT. THE SAW-CUT SHALL BE CUT IN ACCORDANCE WITH LOCAL AND E.P.A. DUST CONTROL REQUIREMENTS. DETECTOR LOOP(S) SHALL NOT BE INSTALLED IN WET CONDITIONS AND THE SAW-CUTS MUST BE FREE OF DEBRIS AND RESIDUE SUCH AS DUST AND WATER WHICH IS TO BE ACHIEVED BY THE USE OF COMPRESSED AIR, WIRE BRUSHING AND HEAT DRYING ACCORDING TO SEALANT MANUFACTURER REQUIREMENTS. THE DETECTOR WIRE SHALL BE HELD IN PLACE BY THE USE OF FORM WEDGES. WEDGES SHALL BE SPACED NO MORE THAN 18" (450 mm) APART.
6. LOOP SPLICES SHALL BE SOLDERED USING A SOLDERING IRON. BLOW TORCHES OR OTHER DEVICES WHICH OXIDIZE COPPER CABLE SHALL NOT BE ALLOWED FOR SOLDERING OPERATIONS. SEE DETAIL BELOW RIGHT.
7. PREFORMED DETECTOR LOOPS SHALL BE USED, AS SHOWN ON THE PLANS, WHERE NEW CONCRETE PAVEMENT IS PROPOSED. THE INSTALLATION OF PREFORMED LOOPS SHALL BE IN ACCORDANCE WITH THE DISTRICT 1 SPECIFICATIONS OR AS DIRECTED BY THE ENGINEER.

LOOP LEAD-IN CABLE TAG

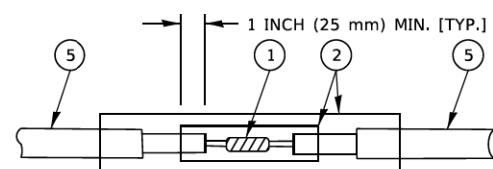


- A. LANE 1 IS THE LANE CLOSEST TO THE CENTERLINE OF THE ROADWAY
- B. LOOP #1 IS THE LOOP IN THE LANE CLOSEST TO THE INTERSECTION.
- C. LABEL LOOP CABLE "IN" OR LOOP CABLE "OUT".
- D. LABEL LOOP CABLE CLOCKWISE OR LOOP CABLE COUNTERCLOCKWISE.

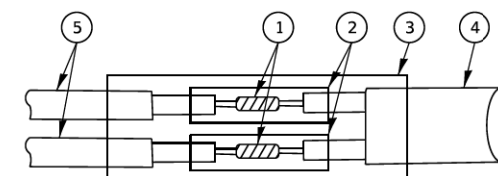


DETECTOR LOOP WIRING SCHEMATIC

- LOOPS SHALL BE SPLICED IN SERIES. SAW-CUTS SHALL BE A MINIMUM WIDTH OF 5/16" (8 mm).
- SAW-CUT DEPTHS SHALL BE 3" (75 mm). IF IN CONCRETE,
- THE SAW-CUT DEPTH SHALL BE TO THE TOP OF THE REINFORCEMENT.
- LOOP CORNERS SHALL BE DRILLED WITH A 2" (50 mm) DIAMETER CORE.

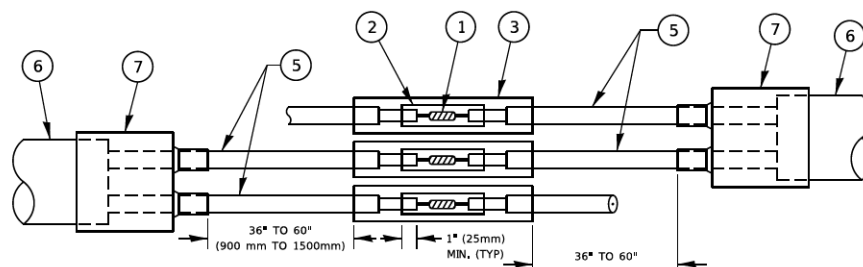


DETAIL "A"
LOOP-TO-LOOP SPLICE

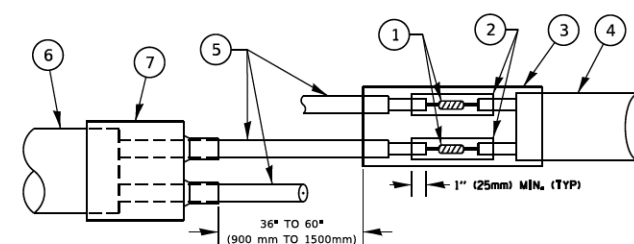


DETAIL "B"
LOOP-TO-CONTROLLER SPLICE

TYPE I LOOP



DETAIL "A"
LOOP-TO-LOOP SPLICE



DETAIL "B"
LOOP-TO-CONTROLLER SPLICE

PREFORMED LOOP

LOOP DETECTOR SPLICE

- 1 WESTERN UNION SPLICE SOLDERED WITH ROSIN CORE FLUX. ALL EXPOSED SURFACES OF THE SOLDER SHALL BE SMOOTH. THE WESTERN UNION SPLICES SHALL BE STAGGERED.
- 2 WCSMW 30/100 HEAT SHRINK TUBE, MINIMUM LENGTH 3" (75 mm), UNDERWATER GRADE.
- 3 WCS 200/750 HEAT SHRINK TUBE, MINIMUM LENGTH 6" (150 mm), UNDERWATER GRADE.
- 4 NO. 14 2/C TWISTED, SHIELDED CABLE.
- 5 LOOP CONDUCTOR WITH FLEXIBLE PLASTIC TUBE. PREFORMED LOOP
- 6 XL POLYOLEFIN 2 CONDUCTOR
- 7 BREAKOUT SEALS. TYCO CBR-2 OR APPROVED EQUAL

FILE NAME = p:\aecom\paw\ben\tdg\fa\ae\CDL\DS20_NA_2019\Documents\25369593-Forest-Reserve-District\900-CAD\GIS\910-CAD\WillIFD_25369593_VeteransTrail\Ph2-Drawings\Traffic Signals\SHIT-Feed-Signal-TS_Detail_02.dgn



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PLOT DATE = 2/8/2021	DATE - 2/09/2021	REVISED -

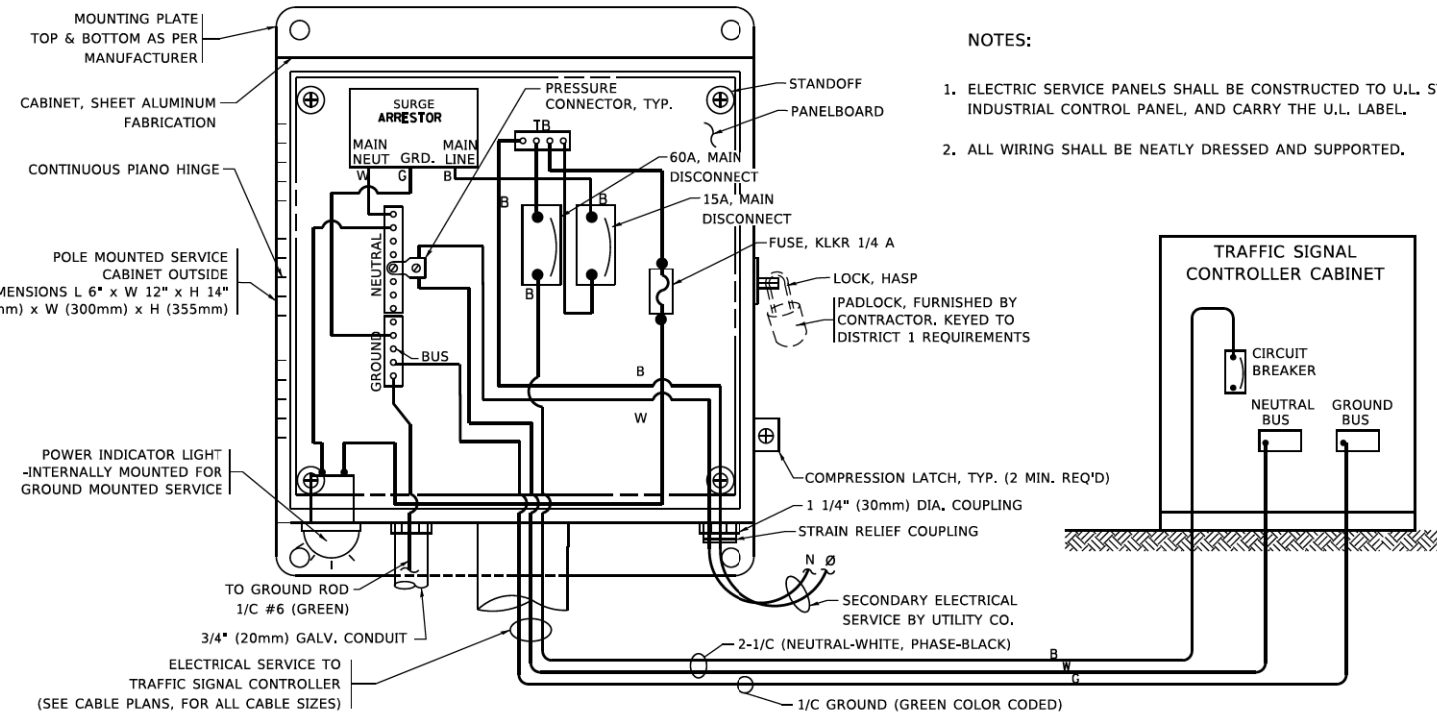
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

VETERANS MEMORIAL TRAIL
STANDARD TRAFFIC SIGNAL DESIGN DETAILS

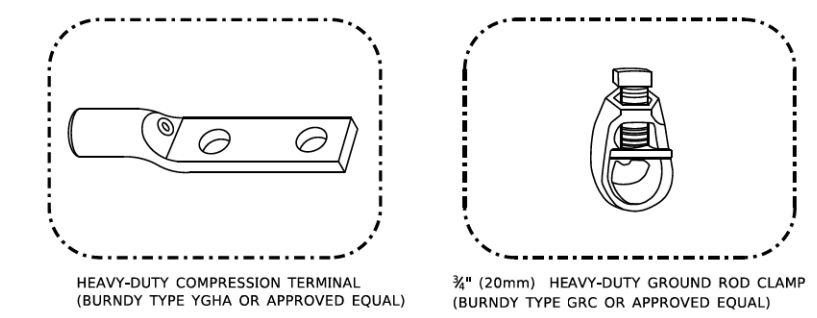
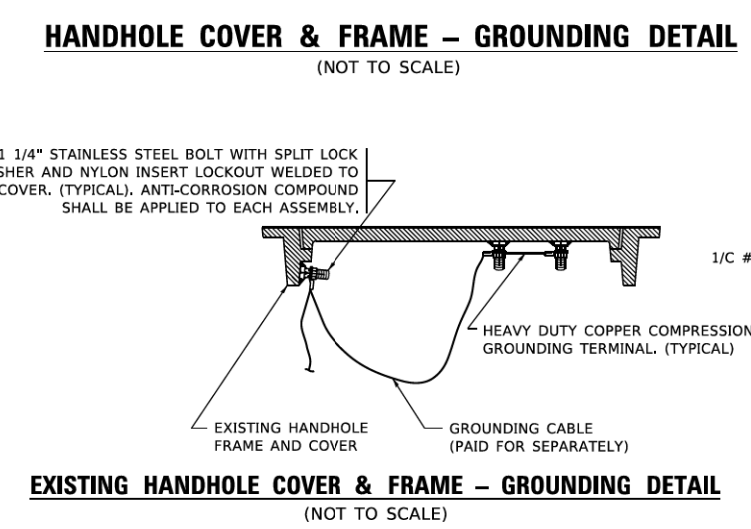
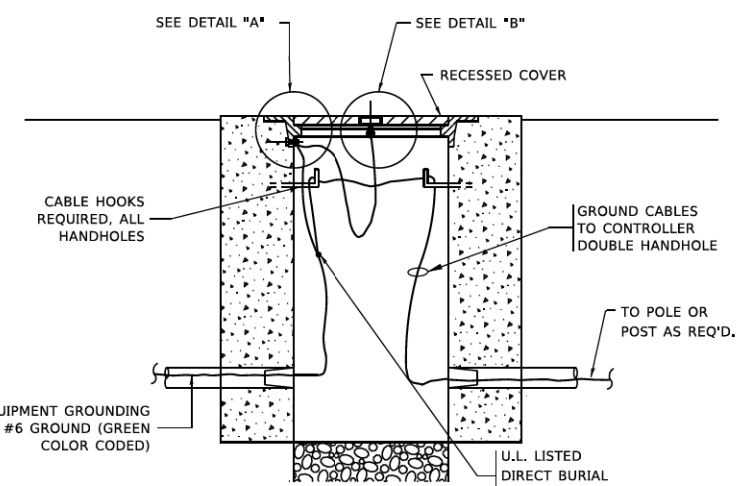
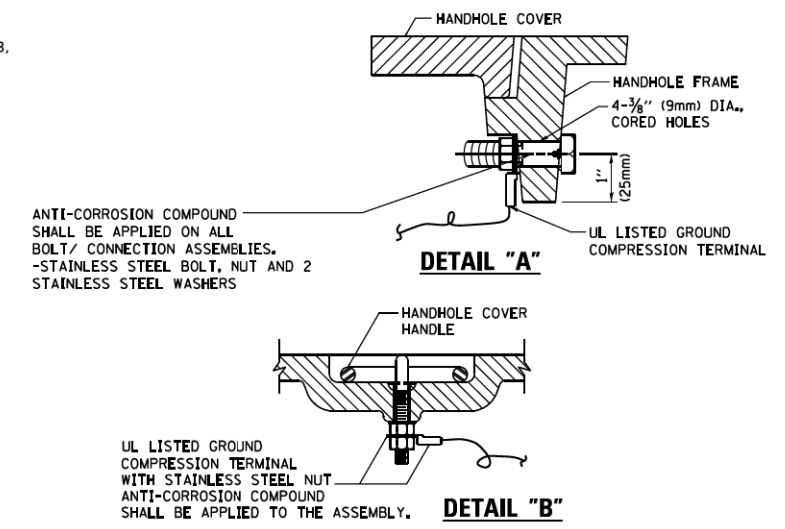
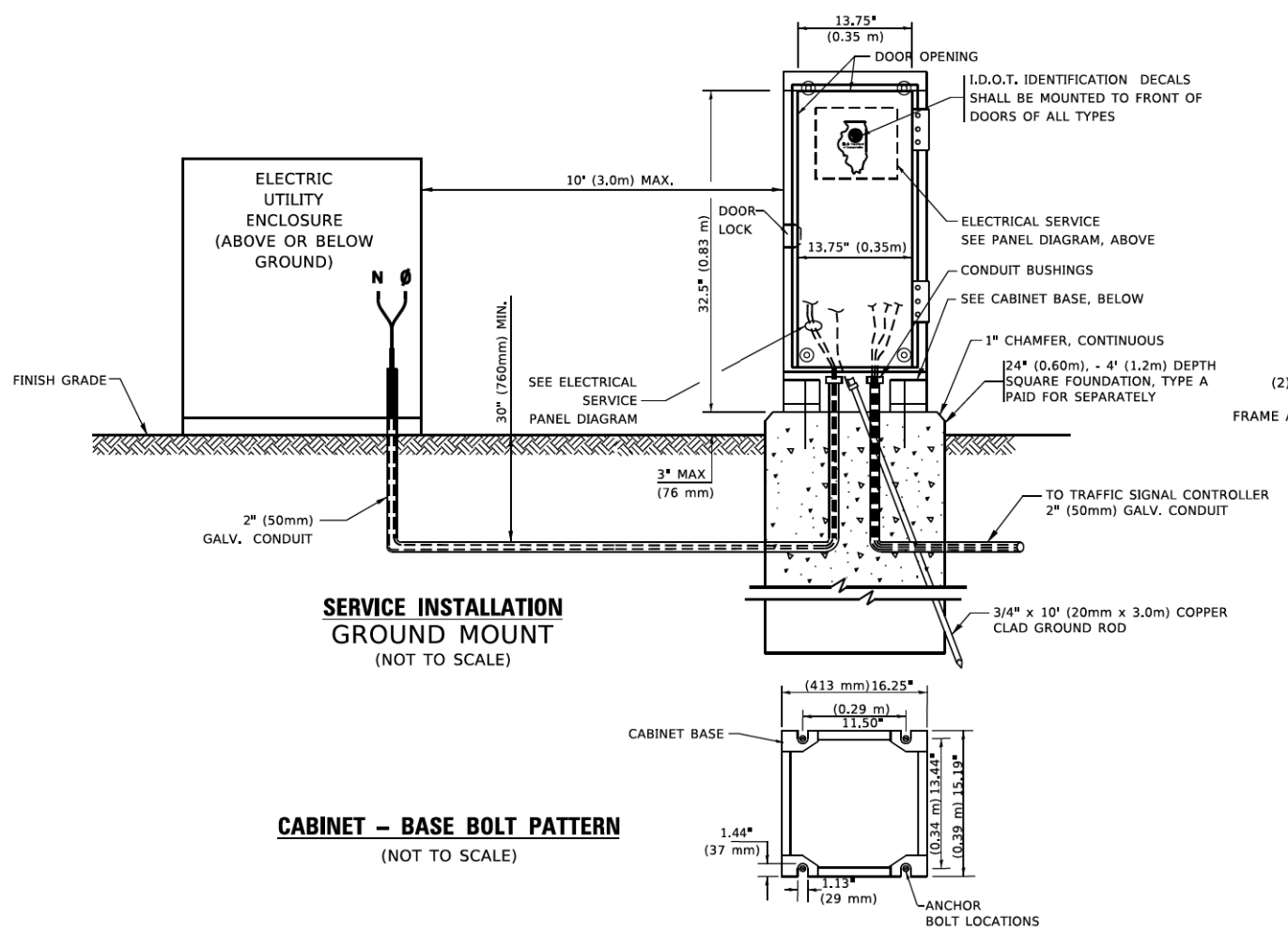
SCALE: 1"=5' SHEET 2 OF 7 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	11-F3001-01-BT	WILL	234	134
			CONTRACT NO. 61G74	
ILLINOIS FED. AID PROJECT				

FILE NAME = p:\aecom\ra-pw\ben\tdg\fa\ae\CDL\DS20_NA_2019\Documents\25369593-Forest-Preseve-District\900-CAD\GIS\910-CAD\WillFPD_25369593_VeteransTrail\Ph2-Drawings\Traffic Signals\SHIT-Feed-Signal-TS_Detail_04.dgn

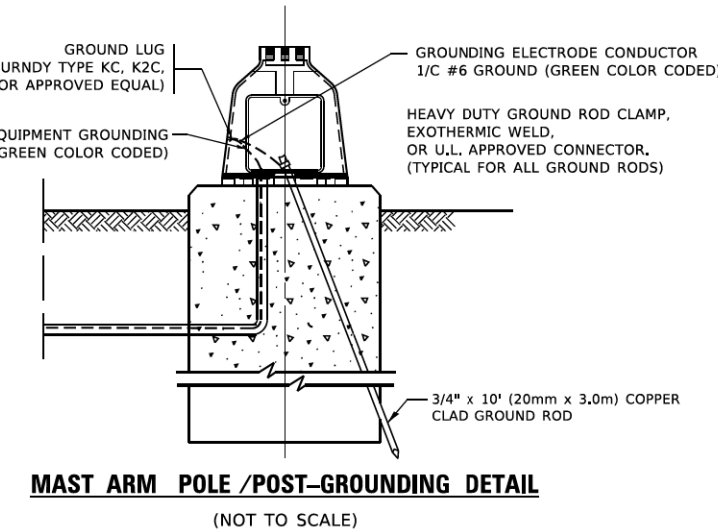


ELECTRICAL SERVICE – PANEL DIAGRAM (TYPICAL FOR POLE AND GROUND MOUNTED SERVICE)
SERVICE INSTALLATION POLE MOUNT (SHOWN)
 (NOT TO SCALE)



NOTES:

- ALL CLAMPS SHALL BE BRONZE OR COPPER, UL APPROVED.
- GROUND CABLE SHALL BE LOOPED OVER HOOKS IN THE HANDHOLES
- 6.5' (2.0m) SLACK SHALL BE PROVIDED IN SINGLE HANDHOLES
- 13' (4.0m) OF SLACK SHALL BE PROVIDED IN DOUBLE HANDHOLES.
- 5' (1.4m) OF SLACK SHALL BE PROVIDED BETWEEN FRAME AND COVER.



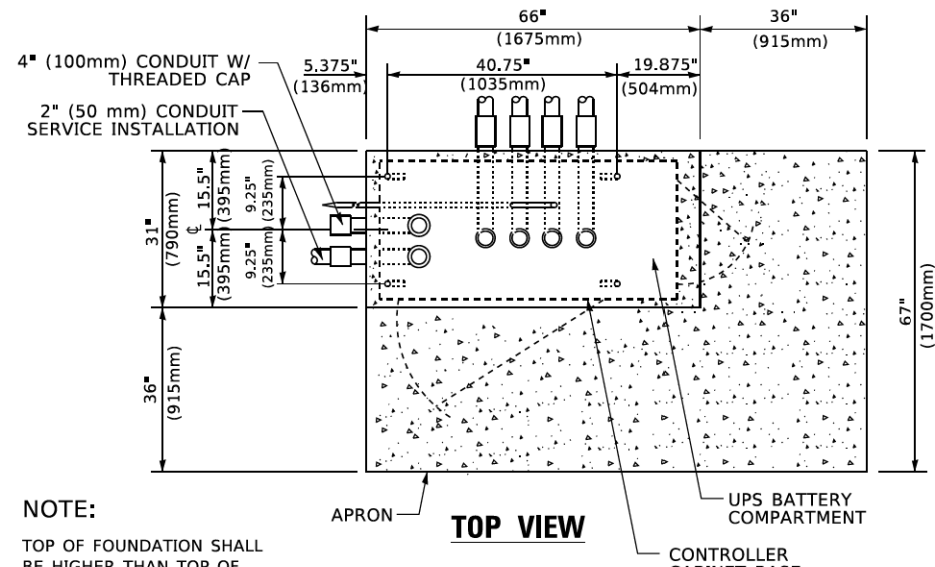
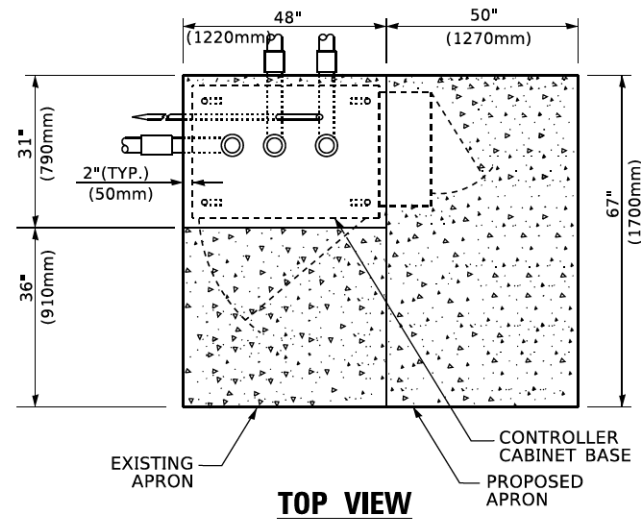
USER NAME = ken.moy	DESIGNED - JN	REVISED -
PLOT SCALE = 10.0000' / in.	DRAWN - JN	REVISED -
PLOT DATE = 2/8/2021	CHECKED - KLM	REVISED -
	DATE - 2/09/2021	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

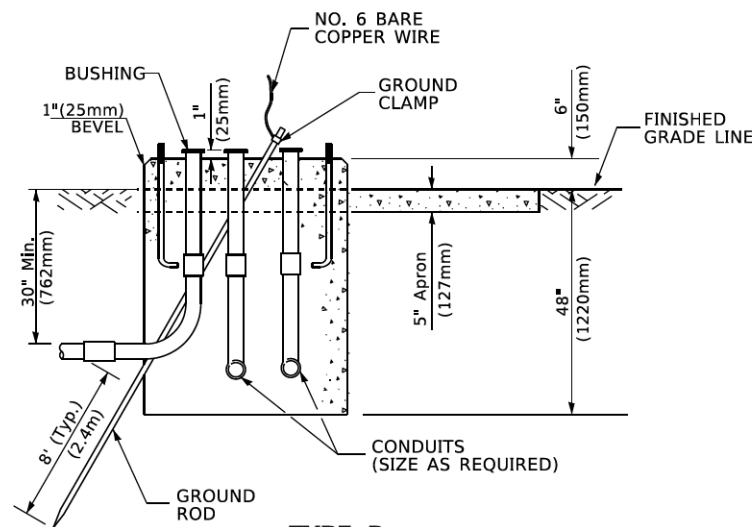
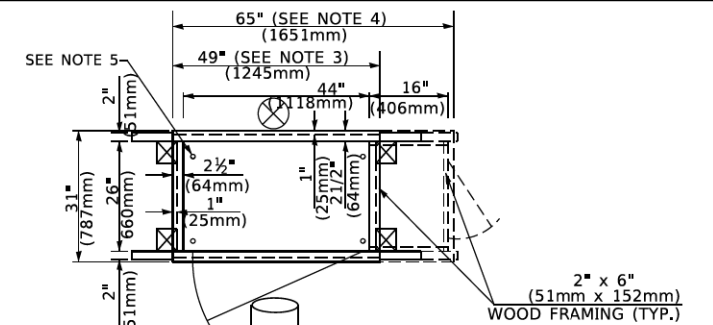
VETERANS MEMORIAL TRAIL
STANDARD TRAFFIC SIGNAL DESIGN DETAILS

SCALE: 1"=5' SHEET 4 OF 7 SHEETS STA. TO STA.

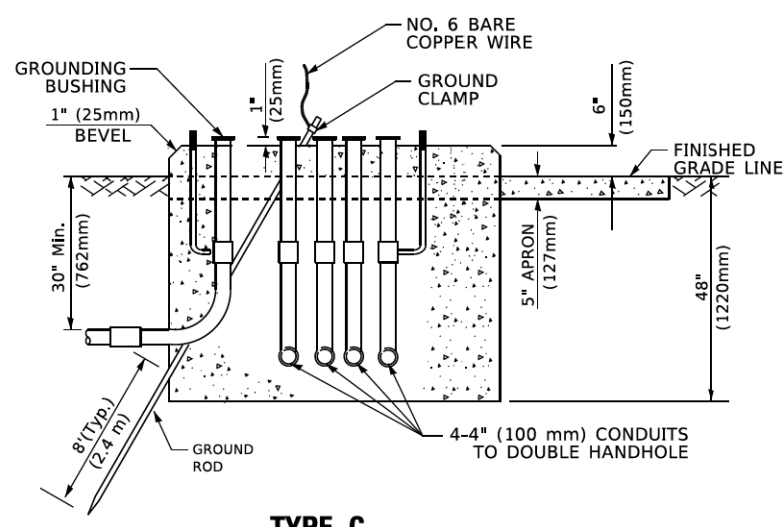
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	11-F3001-01-BT	WILL	234	136
			CONTRACT NO. 61G74	
ILLINOIS FED. AID PROJECT				



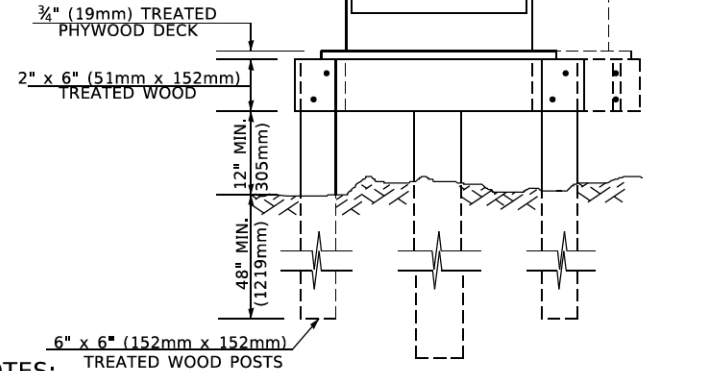
NOTE:
TOP OF FOUNDATION SHALL BE HIGHER THAN TOP OF DOUBLE HANDHOLE



**TYPE D
FOR GROUND MOUNTED
CONTROLLER CABINET
AND UPS BATTERY CABINET**



**TYPE C
FOR GROUND MOUNTED
SUPER P (TYPE IV) AND SUPER R (TYPE V)
CONTROLLER CABINETS**



- NOTES:**
- BASED ON CONTROLLER CABINET TYPE IV WITH BASE DIMENSIONS OF 26" x 44" (660mm x 1118mm). ADJUST PLATFORM SIZE TO FIT CABINET BASE DIMENSIONS BEING SUPPLIED.
 - BASED ON UNINTERRUPTIBLE POWER SUPPLY CABINET WITH BASE DIMENSIONS OF 16" x 25" (406mm x 635mm). ADJUST PLATFORM SIZE TO FIT CABINET BASE DIMENSIONS BEING SUPPLIED.
 - PLATFORM SIZE FOR CONTROLLER CABINET TYPE IV.
 - PLATFORM SIZE FOR CONTROLLER CABINET TYPE IV AND UNINTERRUPTIBLE POWER SUPPLY CABINET.
 - DRILLED HOLES THROUGH THE PLATFORM BASE TO MATCH THE CONTROLLER CABINET BOLT TEMPLATE. FASTEN THE CONTROLLER CABINET TO THE PLATFORM WITH CARRIAGE BOLTS, WASHERS AND NUTS.
 - FASTEN ALL SUPPORT WOOD FRAMING TO THE WOOD POSTS WITH 2 LAG SCREWS FOR EACH CONNECTION..

**TEMPORARY SIGNAL CONTROLLER
WOOD SUPPORT PLATFORM**

CABLE SLACK LENGTH	FEET	METER
HANDHOLE	6.5	2.0
DOUBLE HANDHOLE	13.0	4.0
SIGNAL POST	2.0	0.6
MAST ARM	2.0	0.6
CONTROLLER CABINET	1.5	0.5
FIBER OPTIC AT CABINET	13.0	4.0
ELECTRIC SERVICE AT (CABINET OR SERVICE LOCATION)	1.5	0.5
GROUND CABLE (SIGNAL POST, MAST ARM, CABINET)	1.5	0.5
GROUND CABLE (BETWEEN FRAME AND COVER)	5.0	1.6

CABLE SLACK

VERTICAL CABLE LENGTH	FEET	METER
MAST ARM POLE (MAST ARM MOUNTED SIGNAL HEAD) (L = MAST ARM LENGTH - DISTANCE TO SIGNAL HEAD FROM END OF ARM)	20.0+L	6.0+L
BRACKET MOUNTED (MAST ARM POLE OR SIGNAL POLE)	13.0	4.0
PEDESTRIAN PUSH BUTTON	6.0	2.0
SERVICE INSTALLATION POLE MOUNT TO SERVICE DROP	13.5	4.1
SERVICE INSTALLATION POLE MOUNT TO GROUND	13.5	4.1
SERVICE INSTALLATION GROUND MOUNT	6.0	2.0
FOUNDATION (SIGNAL POST, MAST ARM POLE, CONTROLLER CABINET, SERVICE-GROUND MOUNT)	3.0	1.0

VERTICAL CABLE LENGTH

FOUNDATION	DEPTH
TYPE A - Signal Post	4'-0" (1.2m)
TYPE C - CONTROLLER W/ UPS	4'-0" (1.2m)
TYPE D - CONTROLLER	4'-0" (1.2m)
SERVICE INSTALLATION, GROUND MOUNT, TYPE A - SQUARE	4'-0" (1.2m)

DEPTH OF FOUNDATION

Mast Arm Length	① Foundation Depth	Foundation Diameter	Spiral Diameter	Quantity of Rebars	Size of Rebars
Less than 30' (9.1 m)	10'-0" (3.0 m)	30" (750mm)	24" (600mm)	8	6(19)
Greater than or equal to 30' (9.1 m) and less than 40' (12.2 m)	13'-6" (4.1 m)	30" (750mm)	24" (600mm)	8	6(19)
Greater than or equal to 40' (12.2 m) and less than 50' (15.2 m)	11'-0" (3.4 m)	36" (900mm)	30" (750mm)	12	7(22)
Greater than or equal to 50' (15.2 m) and less than 55' (16.8 m)	13'-0" (4.0 m)	36" (900mm)	30" (750mm)	12	7(22)
Greater than or equal to 55' (16.8 m) and less than 65' (19.8 m)	15'-0" (4.6 m)	36" (900mm)	30" (750mm)	12	7(22)
Greater than or equal to 65' (19.8 m) and less than 75' (22.9 m)	21'-0" (6.4 m)	42" (1060mm)	36" (900mm)	16	8(25)
Greater than or equal to 75' (22.9 m)	25'-0" (7.6 m)	42" (1060mm)	36" (900mm)	16	8(25)

- NOTES:**
- These foundation depths are for sites which have cohesive soils (clayey silt, sandy clay, etc.) along the length of the shaft, with an average Unconfined Compressive Strength (Qu) > 1.0 tsf (100 kpa). This strength shall be verified by boring data prior to construction or with testing by the Engineer during foundation drilling. The Bureau of Bridges & Structures should be contacted for a revised design if other conditions are encountered.
 - Combination mast arm assemblies under 55 feet (16.8 m) shall use 36" (900 mm) diameter foundations.
 - Combination mast arm assemblies under 56 feet (16.8 m) through 75 feet (22.9 m) shall use 42" (1060 mm) diameter foundations.
 - For mast arm assemblies with dual arms refer to state standard 878001..

DEPTH OF MAST ARM FOUNDATIONS, TYPE E



USER NAME = ken.moy
PLOT SCALE = 10.0000' / 1" IN.
PLOT DATE = 2/8/2021

DESIGNED - JN
DRAWN - JN
CHECKED - KLM
DATE - 2/09/2021

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

VETERANS MEMORIAL TRAIL
STANDARD TRAFFIC SIGNAL DESIGN DETAILS

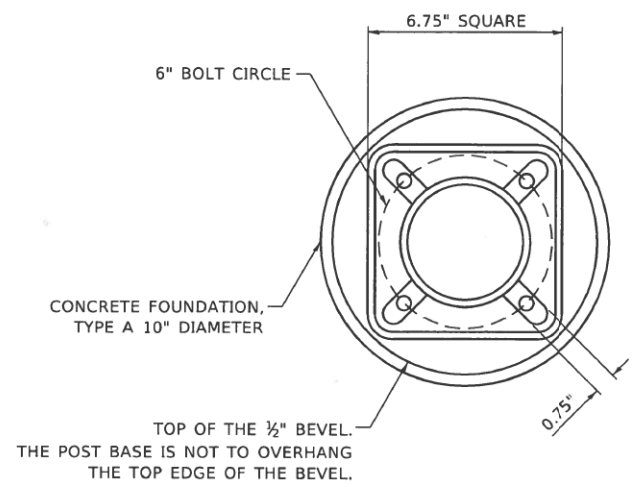
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SHEET 5 OF 7 SHEETS

STA. TO STA.

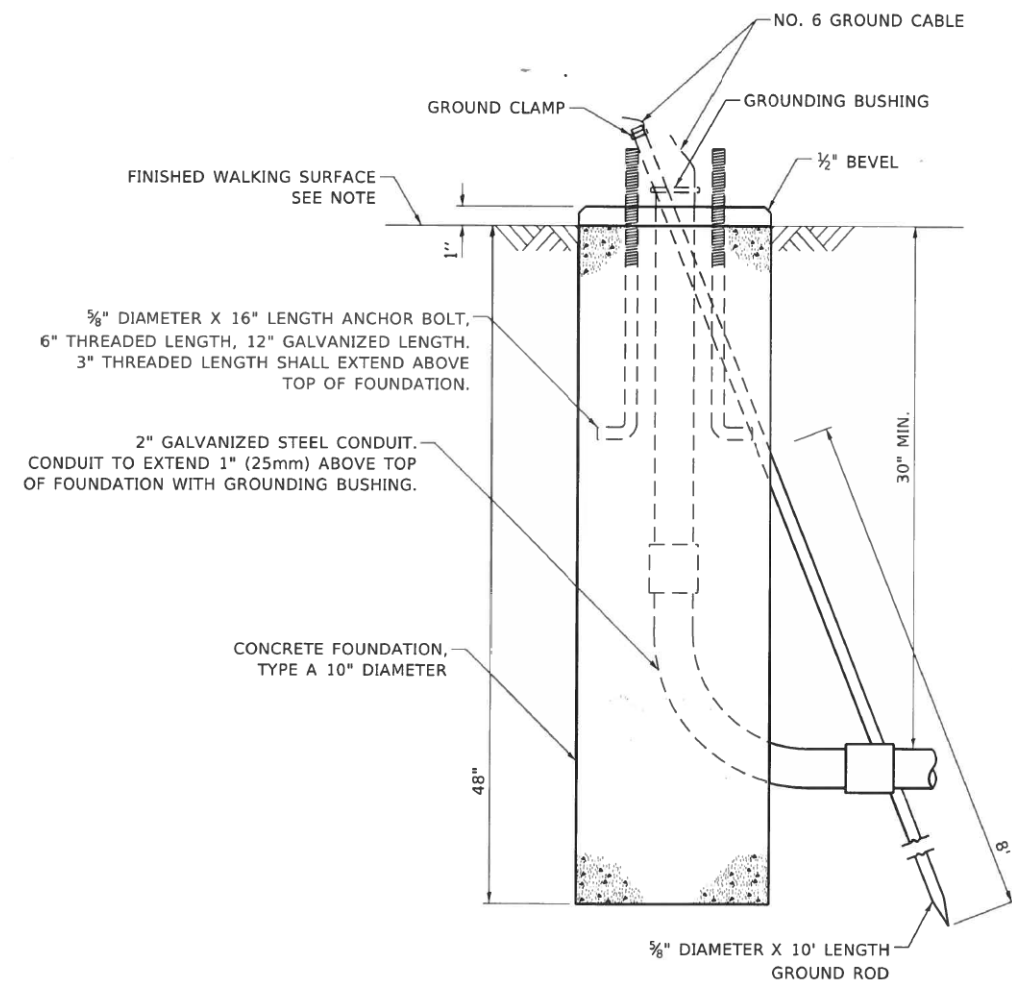
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	11-F3001-01-BT	WILL	234	137
				CONTRACT NO. 61G74
ILLINOIS FED. AID PROJECT				

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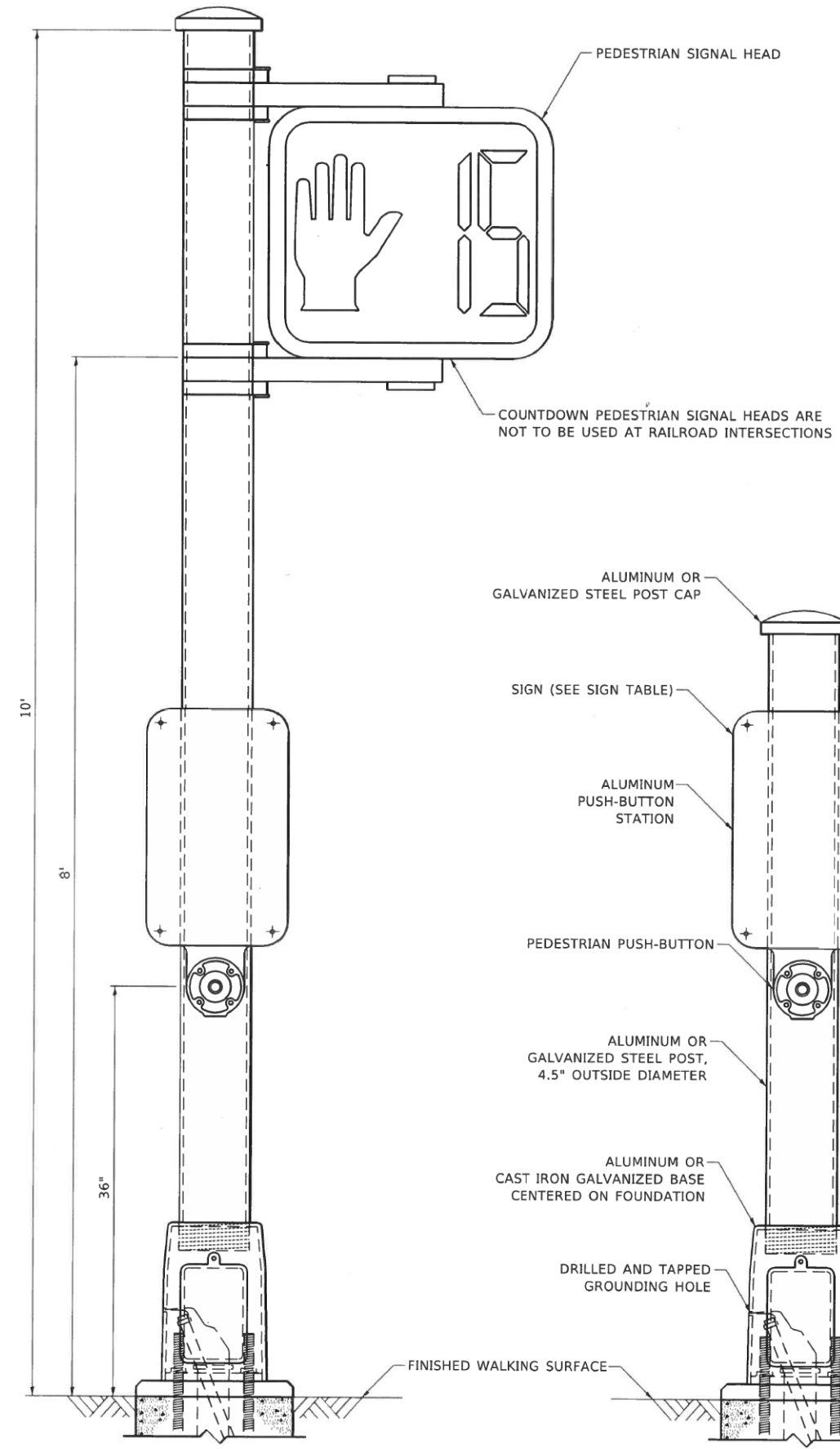


BOLT PATTERN

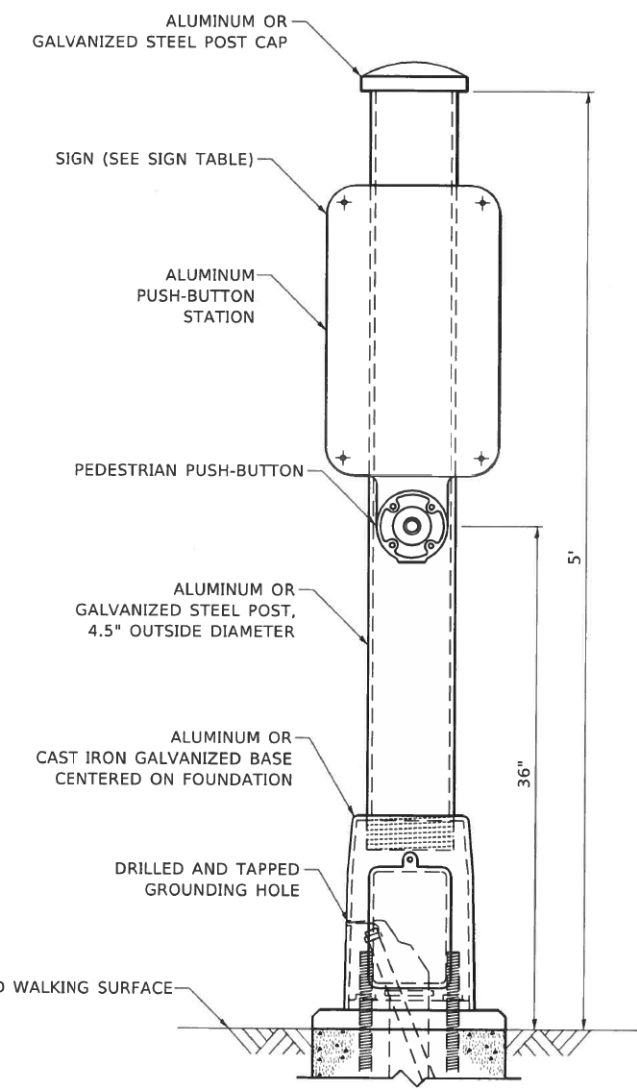
NOTE:
 1. IF THE PEDESTRIAN SIGNAL POST FOUNDATION IS INSTALLED WITHIN OR BEHIND A BARRIER CURB, THE TOP OF THE FOUNDATION SHALL BE INSTALLED FLUSH WITH THE TOP OF THE BARRIER CURB.



**CONCRETE FOUNDATION,
TYPE A 10-INCH DIAMETER**



PEDESTRIAN SIGNAL POST, 10 FT.



PEDESTRIAN SIGNAL POST, 5 FT.



SIGN TABLE

SIGN	DIMENSIONS
R10-3b (RAILROAD ONLY)	9" X 12"
R10-3d (RAILROAD ONLY)	9" X 12"
R10-3e	9" X 15"

NOTES:
 1. THE SIGN PANELS SHALL BE TYPE AP SHEETING.
 2. THE ARROW ON SIGNS FOR PUSH-BUTTONS SERVING TWO DIRECTIONS ON THE SAME PHASE SHALL BE BI-DIRECTIONAL.
 3. THE SIGN FOR DUAL-CALL PUSH-BUTTONS SHALL HAVE NO ARROW.

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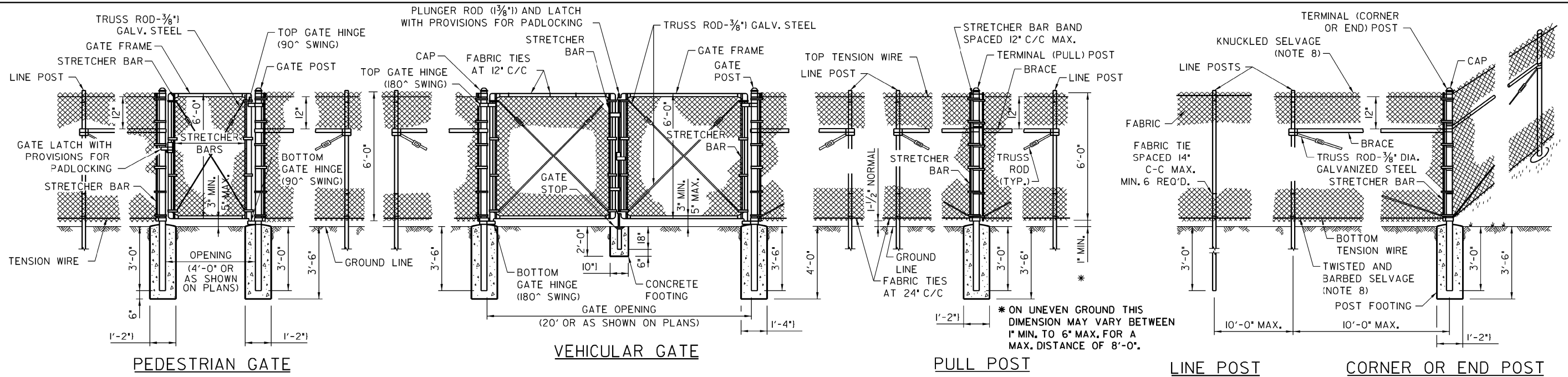
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

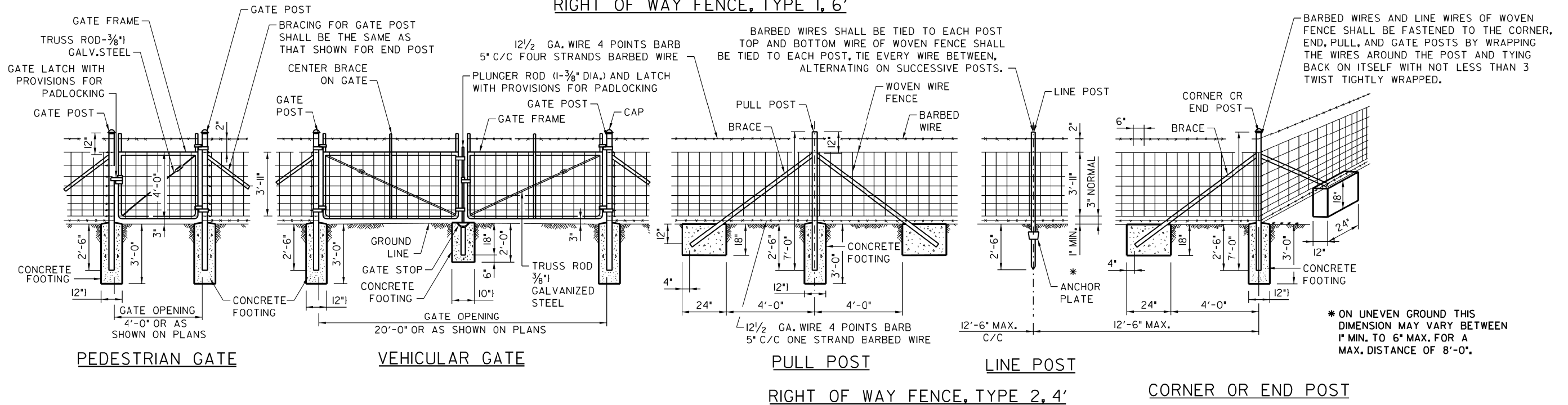
VETERANS MEMORIAL TRAIL
STANDARD TRAFFIC SIGNAL DESIGN DETAILS

SCALE: 1"=5' SHEET 7 OF 7 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	11-F3001-01-BT	WILL	234	139
			CONTRACT NO. 61G74	
ILLINOIS FED. AID PROJECT				



RIGHT OF WAY FENCE, TYPE 1, 6'



GENERAL NOTES

- ON STRAIGHT RUNS OF FENCE, PULL POSTS SHALL BE USED AT 500' CENTERS FOR TYPE 1 AND 330' CENTERS FOR TYPE 2.
- WHERE R.O.W. FENCE FOLLOWS R.O.W. LINE IT SHALL BE INSTALLED PARALLEL TO AND 6' INSIDE THE R.O.W. LINE ON ILLINOIS TOLLWAY PROPERTY.
- LINE POSTS AND BRACES SHALL BE ON ILLINOIS TOLLWAY SIDE OF FENCE FABRIC.
- WHEN THE TENSION OF THE FENCE TENDS TO PULL THE POSTS FROM THE GROUND, THE LINE POSTS SHALL BE ANCHORED WITH ANCHORAGE SPECIFIED FOR CORNER POSTS.
- WHEN THE FENCE LINE HAS A CHANGE IN DIRECTION OF 10° OR MORE, A CORNER POST SHALL BE PLACED AT THE POINT OF CHANGE. WHERE THE ANGLE OF CHANGE IS LESS THAN 10° A PULL POST SHALL BE USED.
- WHERE GRADE LINE HAS A CHANGE IN SLOPE OF 10° OR MORE, A CORNER POST WITH BRACING AS REQUIRED SHALL BE PLACED. WHERE ANGLE IS LESS THAN 10° LINE POST MAY BE USED.
- WHERE RIGHT-OF-WAY FENCE, TYPE 1 IS USED, THE FABRIC SHALL BE KNUCKLED SELVAGE ON TOP AND TWISTED AND BARBED SELVAGE ON BOTTOM.
- PLACEMENT OF BRACED END POSTS OR CORNER POSTS WITHIN THE CLEAR ZONE SHALL BE AVOIDED.



RIGHT OF WAY FENCE

STANDARD DI-06

DATE	REVISIONS
11-01-2012	REVISED NOTES
3-31-2014	REVISED ROLLED FORM SECTIONS
3-11-2015	REVISED NOTES
3-31-2017	REVISED NOTES
3-01-2020	ADDED GATE TO HEADWALL DETAIL

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	11-F3001-01-BT	WILL	234	140
				CONTRACT NO. 61G74
ILLINOIS FED. AID PROJECT				

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Paul Kovacs
 APPROVED: _____ DATE: 7-1-2009
 CHIEF ENGINEERING OFFICER

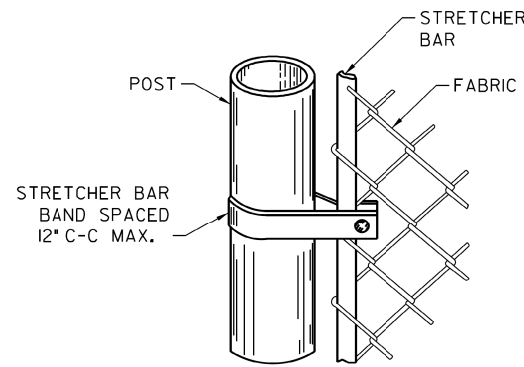
AECOM
 303 East Wacker Drive, Suite 1400, Chicago, IL 60601
 T 1-312-373-7700 F 1-312-373-6800

USER NAME = ken.moy	DESIGNED - JN	REVISED -
PLOT SCALE = 20.0000' / in.	DRAWN - JN	REVISED -
PLOT DATE = 2/8/2021	CHECKED - KLM	REVISED -
	DATE - 2/09/2021	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

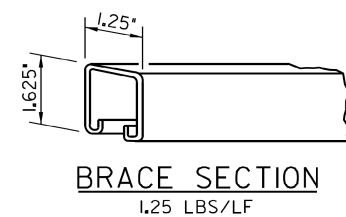
VETERANS MEMORIAL TRAIL
 TOLLWAY RIGHT OF WAY FENCE DETAIL

SCALE: SHEET 1 OF 3 SHEETS STA. TO STA.

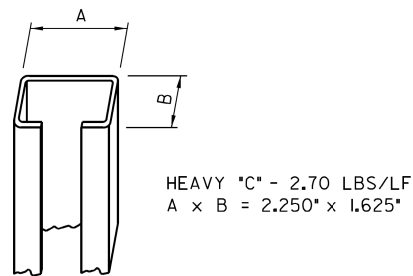


STRETCHER BARS SHALL BE GALVANIZED FLAT STEEL BAR NOT LESS THAN 1/4" x 3/4" AND THE STRETCHER BAR BANDS SHALL BE GALVANIZED FLAT STEEL BAR NOT LESS THAN 1/8" x 1" WITH A 3/8" GALVANIZED CARRIAGE BOLT.

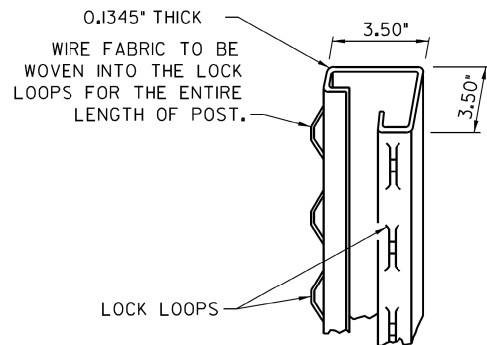
METHOD OF FASTENING STRETCHER BAR TO POST



BRACE SECTION
1.25 LBS/LF

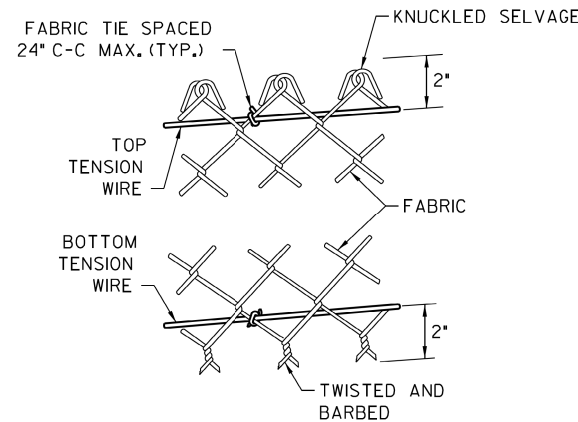


LINE POST 'C' SECTION

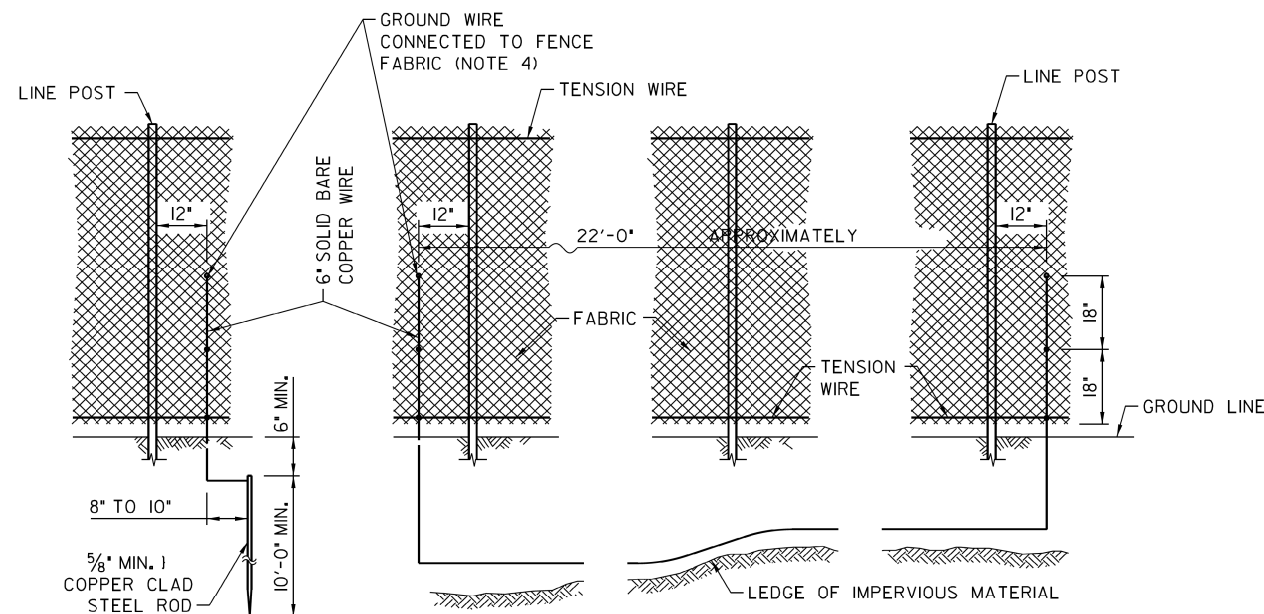


TERMINAL POST SECTION
5.10 LBS/LF

DETAILS OF ROLL FORMED SECTIONS



METHOD OF TYING FABRIC TO TENSION WIRES



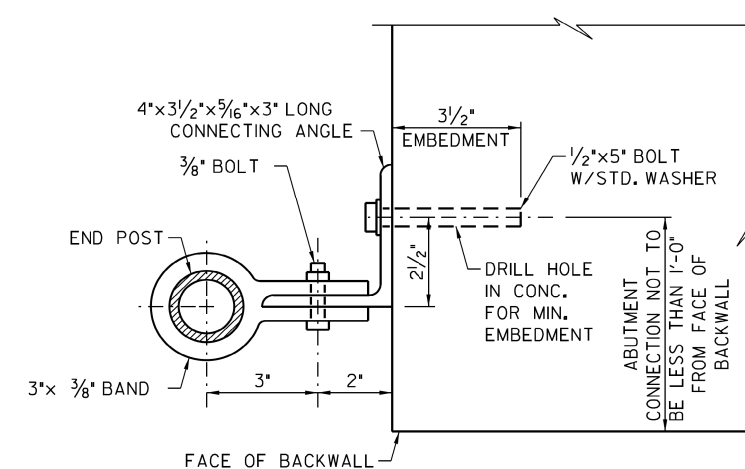
STANDARD GROUND

COUNTERPOISE GROUND (ALTERNATE)

NOTES FOR STANDARD AND COUNTERPOISE GROUND:

1. THE INTERVALS FOR GROUNDING CONTINUOUS FENCING SHALL NOT EXCEED 500 FEET IN URBAN AREAS AND 1000 FEET IN RURAL AREAS. FENCE ADJACENT TO A GATE SHALL BE GROUNDED A MAXIMUM DISTANCE 100 FEET EACH SIDE OF THE GATE.
2. FENCE CROSSING UNDER A POWER LINE SHALL BE GROUNDED, ONCE DIRECTLY UNDER THE CROSSING AND ONE ON EACH SIDE AT 25 TO 50 FEET AWAY. FENCE LOCATED DIRECTLY UNDER A TELEPHONE WIRE OR CABLE CROSSING SHALL HAVE A SINGLE GROUND.
3. COUNTERPOISE GROUNDS SHALL BE USED AT LOCATIONS WHERE GROUND RODS CAN NOT BE DRIVEN DUE TO IMPERVIOUS EARTH MATERIALS.
4. THE GROUND WIRES SHALL BE CONNECTED TO FENCE FABRIC AND GROUND ROD BY STAINLESS STEEL BOLTS AND WASHERS. THE LOWER CONNECTION OF THE GROUND WIRE SHALL BE MADE TO THE BOTTOM TENSION WIRE.

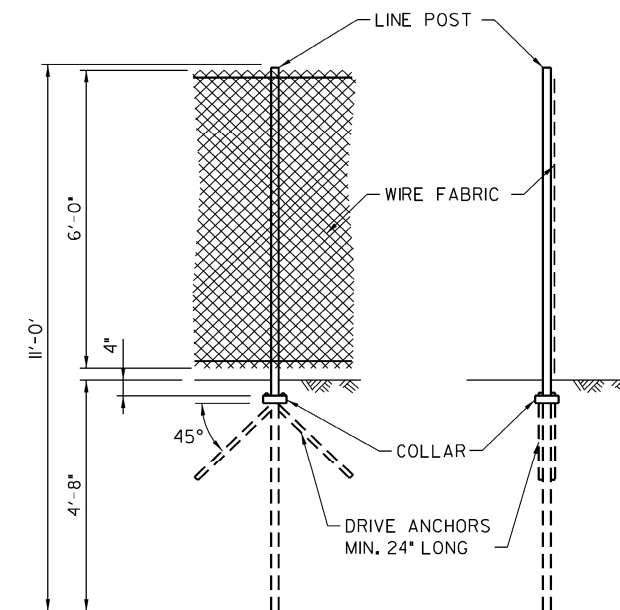
ELECTRICAL GROUNDING DETAILS



ABUTMENT CONNECTION DETAIL

NOTES FOR ABUTMENT CONNECTION:

1. WHEN ROLL FORMED SECTION IS USED IN LIEU OF PIPE AS END POST, THE POST SHALL BE BOLTED DIRECTLY TO THE ABUTMENT WALL WITH 2 1/2" x 5" BOLTS WITH STANDARD WASHERS MEETING THE APPROVAL OF THE ENGINEER.



ALTERNATE DRIVEN LINE POST ANCHORAGE WITH OR WITHOUT DRIVE ANCHORS

NOTE FOR FENCE POST:

ALTERNATE DRIVEN LINE POST ANCHORAGE IS OPTIONAL. DRIVEN LINE POST ANCHORAGE WITHOUT DRIVE ANCHORS MAY BE USED IN AVERAGE TO GOOD SOIL CONDITIONS. WHEN SOIL IS WEAKER (Q_u < 1.25 TONS/ SQ. FT.) AND STABILITY OF THE POST IS QUESTIONABLE, DRIVE ANCHORS SHALL BE USED. TYPES, SHAPES, DIMENSIONS AND COATING REQUIREMENTS OF DRIVE ANCHORS (ANCHOR BLADES AND COLLARS) FOR DIFFERENT TYPE OF POSTS SHALL BE AS RECOMMENDED BY THE MANUFACTURER.



RIGHT OF WAY FENCE

STANDARD DI-06

APPROVED: *Paul Kovacs* DATE: 7-1-2009
CHIEF ENGINEERING OFFICER



USER NAME = ken.moy	DESIGNED - JN	REVISED -
PLOT SCALE = 20.0000' / in.	DRAWN - JN	REVISED -
PLOT DATE = 2/8/2021	CHECKED - KLM	REVISED -
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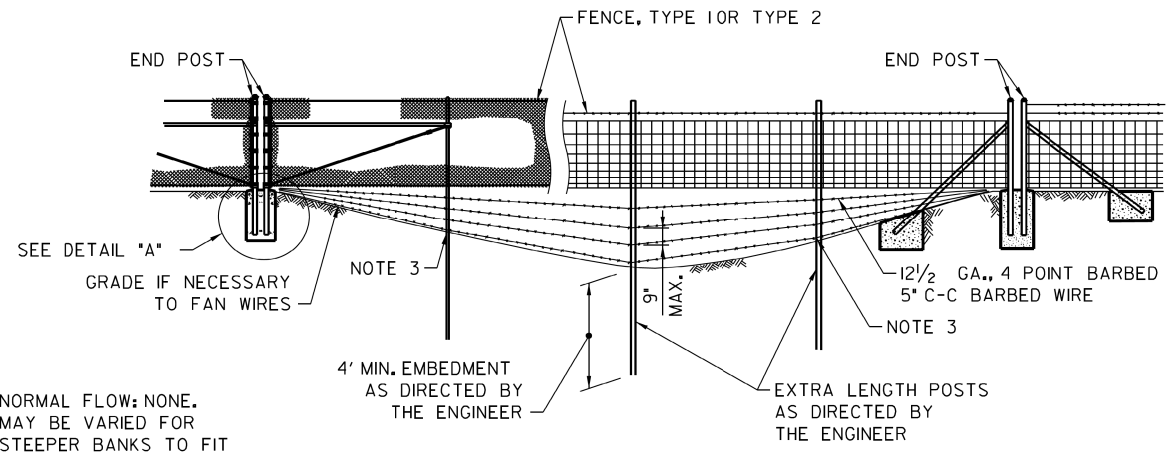
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

VETERANS MEMORIAL TRAIL
TOLLWAY RIGHT OF WAY FENCE DETAIL

SCALE: SHEET 2 OF 3 SHEETS STA. TO STA.

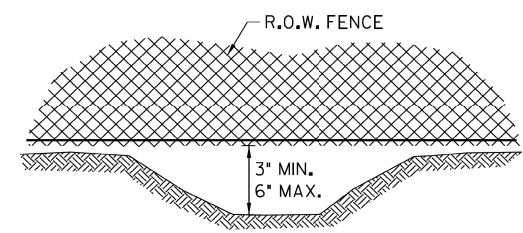
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	11-F3001-01-BT	WILL	234	141
CONTRACT NO. 61G74				
ILLINOIS FED. AID PROJECT				

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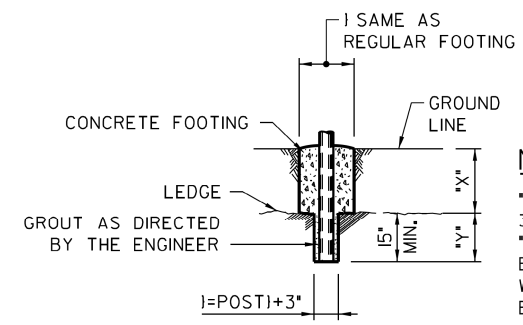


NORMAL FLOW: NONE.
MAY BE VARIED FOR
STEEPER BANKS TO FIT
VARIOUS CHANNEL SECTIONS.

STREAM CROSSING, TYPE 1

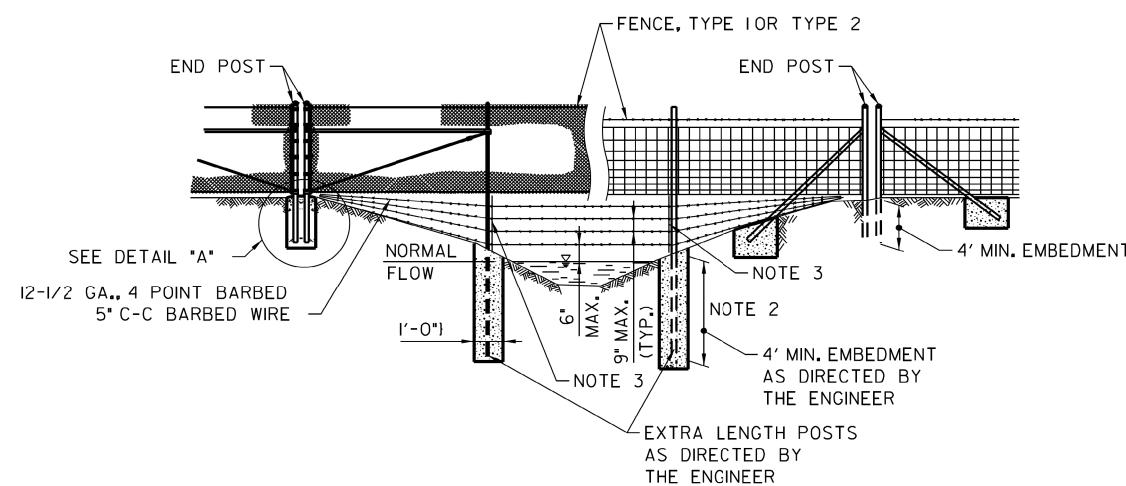


FENCE INSTALLATION OVER DITCH

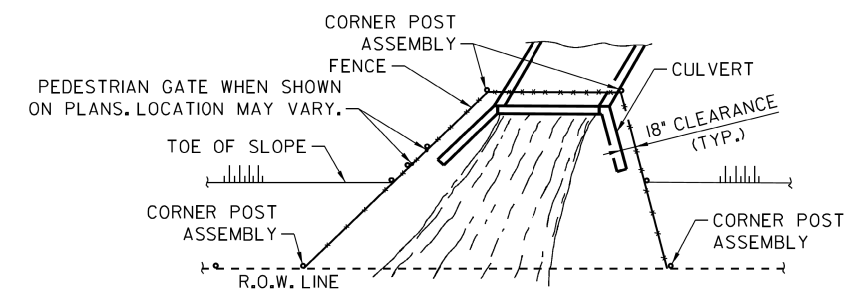


NOTE:
X + *Y* SHALL NOT EXCEED
30\"/>

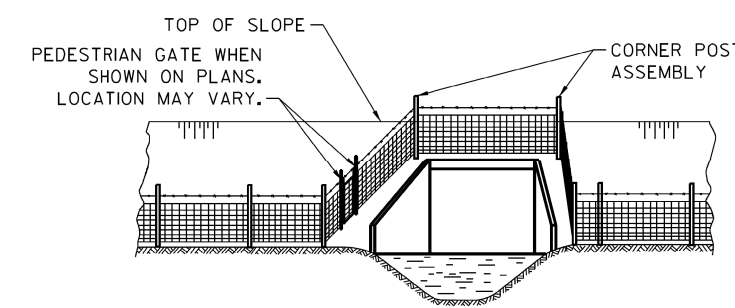
**FOOTING FOR POST WHEN
ROCK LEDGE IS ENCOUNTERED**



STREAM CROSSING, TYPE 2



PLAN AT HEADWALL



ELEVATION

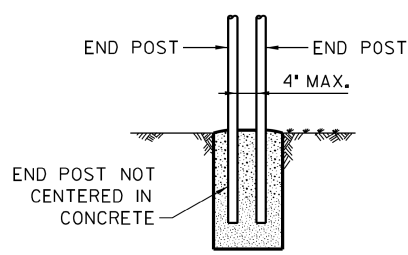
NOTES FOR INSTALLATION AROUND HEADWALL:

1. THIS TYPE OF INSTALLATION IS TO BE USED ONLY WHEN SPECIFICALLY CALLED FOR IN THE CONTRACT PLANS.
2. WHEN THE WIDTH OF THE CULVERT MAKES IT NECESSARY TO ANCHOR A POST TO THE TOP OF THE CULVERT, A CAST IRON SHOE OR OTHER DEVICE APPROVED BY THE ENGINEER SHALL BE USED.

INSTALLATION AROUND HEADWALL

NOTES FOR STREAM CROSSING TYPE 1 AND TYPE 2:

1. THESE INSTALLATION CONDITIONS ARE TYPICAL AND ARE NOT TO BE CONSTRUED AS REPRESENTATIVE OF ALL CONDITIONS WHICH WILL BE ENCOUNTERED. CONSTRUCTION WILL BE VARIED AS REQUIRED OR DIRECTED TO MEET FIELD CONDITIONS.
2. FOR STREAM CROSSING OF THE TYPE REQUIRED THE BOTTOM BARBED WIRE SHALL BE ANCHORED TO CONCRETE FOOTING OR TO HOLES DRILLED IN POSTS, AND INTERMEDIATE WIRES SHALL BE TIED TO THE BOTTOM WIRE AND TO POSTS IN AN EVENLY SPACED FASHION TO PREVENT SLIPPAGE.
3. CONCRETE AND FITTINGS FOR ALL TYPES OF FENCE SHALL BE AS DETAILED FOR SIMILAR CONDITIONS PER STANDARD DRAWING.



DETAIL A

THE FENCE FABRIC SHALL BE REPLACED BY BARBED WIRE STRANDS AT 12\"/>



RIGHT OF WAY FENCE

STANDARD DI-06

APPROVED: *Paul Kovacs*
DATE: 7-1-2009
CHIEF ENGINEERING OFFICER



USER NAME = ken.moy	DESIGNED - JN	REVISED -
PLOT SCALE = 20.0000' / in.	DRAWN - JN	REVISED -
PLOT DATE = 2/8/2021	CHECKED - KLM	REVISED -
	DATE - 2/09/2021	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

VETERANS MEMORIAL TRAIL
TOLLWAY RIGHT OF WAY FENCE DETAIL

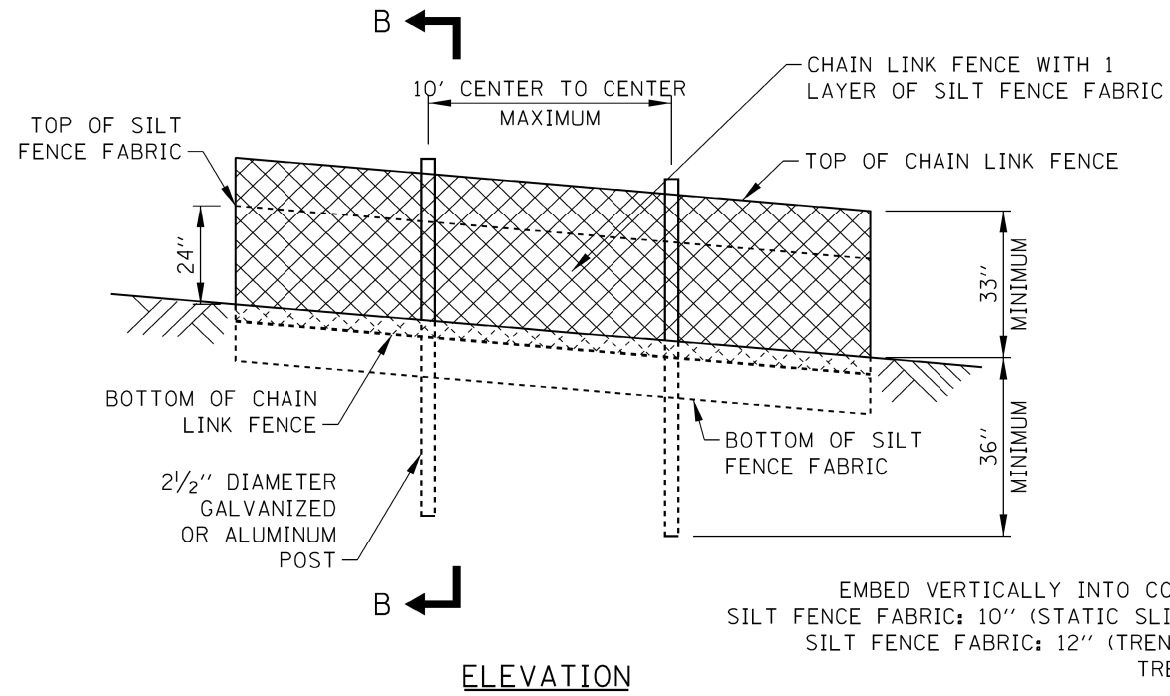
SCALE: SHEET 3 OF 3 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	11-F3001-01-BT	WILL	234	142
CONTRACT NO. 61G74				
ILLINOIS FED. AID PROJECT				

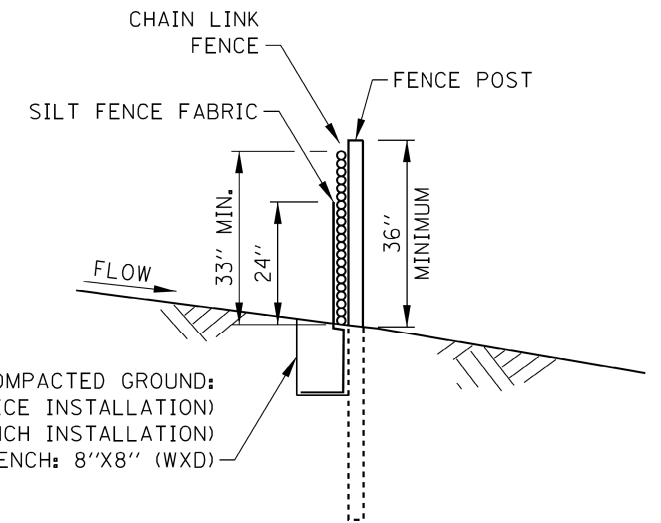
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NOTES:

- FENCING SHALL BE 36" IN HEIGHT AND CONSTRUCTED IN ACCORDANCE WITH ILLINOIS TOLLWAY STANDARD DRAWING D1, RIGHT-OF-WAY FENCE, TYPE 1. THE SPECIFICATION FOR A 6' FENCE SHALL BE USED, SUBSTITUTING 36" FABRIC AND 6' LENGTH POSTS.
- CHAIN LINK FENCE SHALL BE FASTENED SECURELY TO THE FENCE POSTS WITH WIRE TIES. THE LOWER TENSION WIRE, BRACE AND TRUSS RODS, DRIVE ANCHORS AND POST CAPS ARE NOT REQUIRED. PULL POSTS, CORNER POSTS, HORIZONTAL BRACING AND TIE RODS ARE NOT REQUIRED.
- SILT FENCE FABRIC SHALL BE FASTENED SECURELY TO THE CHAIN LINK FENCE WITH TIES SPACED EVERY 24" AT THE TOP AND MID SECTION.
- WHEN TWO SECTIONS OF SILT FENCE FABRIC ADJOIN EACH OTHER, THEY SHALL BE OVERLAPPED 2' HORIZONTALLY.
- MAINTENANCE SHALL BE PERFORMED AS NEEDED. SILT BUILD-UP AGAINST FENCE SHALL BE REMOVED WHEN SILT REACHES 50% OF FENCE HEIGHT.
- SUPER SILT FENCE IS TO BE USED TO PROTECT ENVIRONMENTALLY SENSITIVE AREAS AND CONTROL SEDIMENT RUNOFF FROM CONSTRUCTION SITES WHEN ADDITIONAL REINFORCEMENT IS REQUIRED DUE TO SLOPE OF SITE OR VOLUME OF STORM WATER RUNOFF.

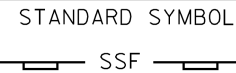


EMBED VERTICALLY INTO COMPACTED GROUND:
 SILT FENCE FABRIC: 10" (STATIC SLICE INSTALLATION)
 SILT FENCE FABRIC: 12" (TRENCH INSTALLATION)
 TRENCH: 8"X8" (WXD)



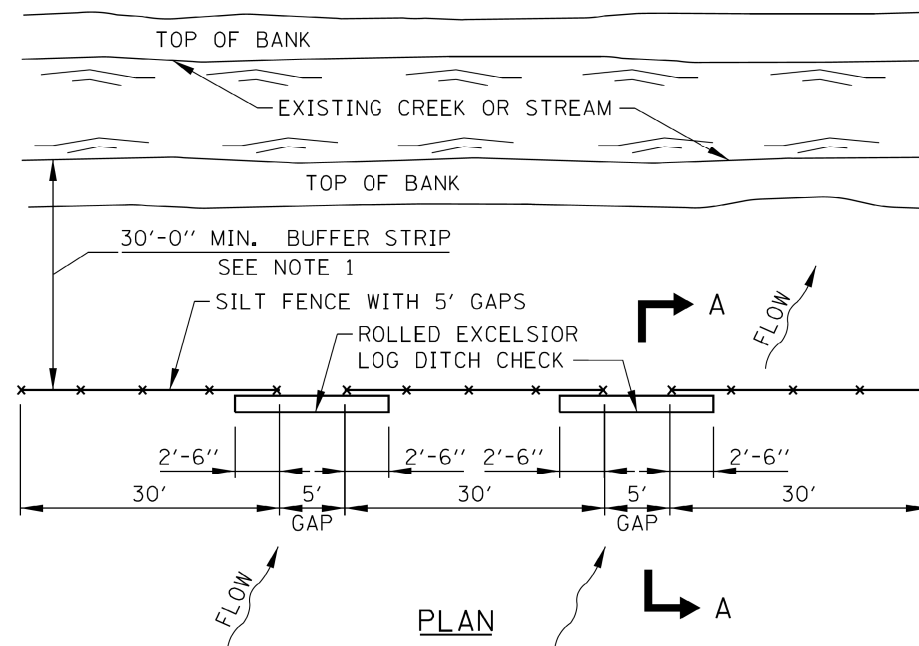
SECTION B-B

SUPER SILT FENCE (SSF)

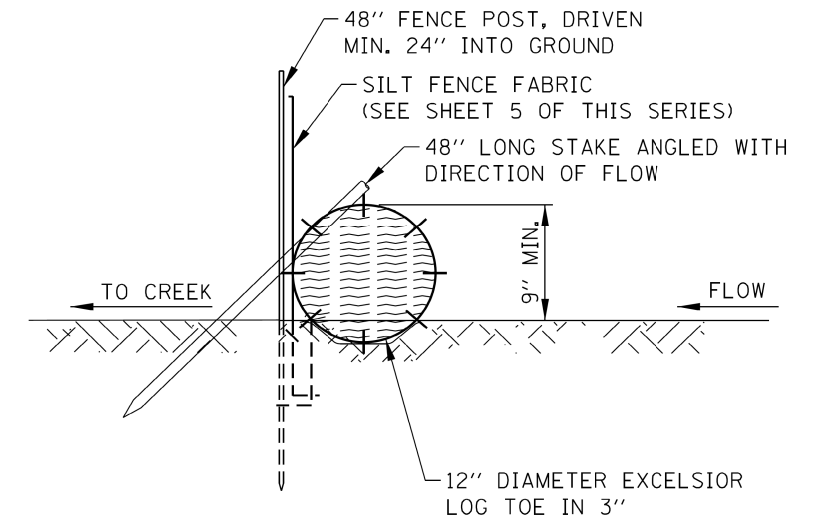


NOTES:

- A MINIMUM 50' WIDE VEGETATED BUFFER STRIP SHALL BE PRESERVED AND/OR RE-ESTABLISHED WHERE POSSIBLE ALONG EXISTING CHANNELS.
 - FOR ANY WATERS OF THE U.S. DETERMINED TO BE A HIGH-QUALITY AQUATIC RESOURCE, THE BUFFER MUST BE A MINIMUM OF 100'.
 - FOR ANY WATERS OF THE U.S. THAT DO NOT QUALIFY AS WETLAND (FOR EXAMPLE LAKES, RIVERS, PONDS, ETC.), THE BUFFER MUST BE A MINIMUM OF 50' FROM THE ORDINARY HIGH WATER MARK (OHWM).
 - FOR ANY JURISDICTIONAL WETLAND, THE BUFFER MUST BE A MINIMUM OF 50'.
- THE 5' GAPS IN THE SILT FENCE AND THE 12" DIAMETER TEMPORARY DITCH CHECKS ARE TO ALLOW FLOODWATER FLOW INTO THE CREEK FROM THE SITE WITHOUT DAMAGE TO THE SILT FENCE.
- MAINTENANCE SHALL BE PERFORMED AS NEEDED AND SILT SHALL BE REMOVED WHEN IT REACHES 50% OF ROLL HEIGHT. WHEN THE ROLLED EXCELSIOR LOG IS REDUCED TO 50% OF ROLL HEIGHT IT SHALL BE REPLACED.



CREEK BUFFER STRIP AND SILT FENCE



SECTION A-A



EROSION CONTROL & LANDSCAPE

STANDARD K1-09

APPROVED: *Paul Kovacs* DATE 2-7-2012
 CHIEF ENGINEERING OFFICER



USER NAME = ken.moy
 DESIGNED - JN
 DRAWN - JN
 PLOT SCALE = 20.0000' / in.
 CHECKED - KLM
 DATE - 2/09/2021
 REVISED -
 REVISED -
 REVISED -
 REVISED -

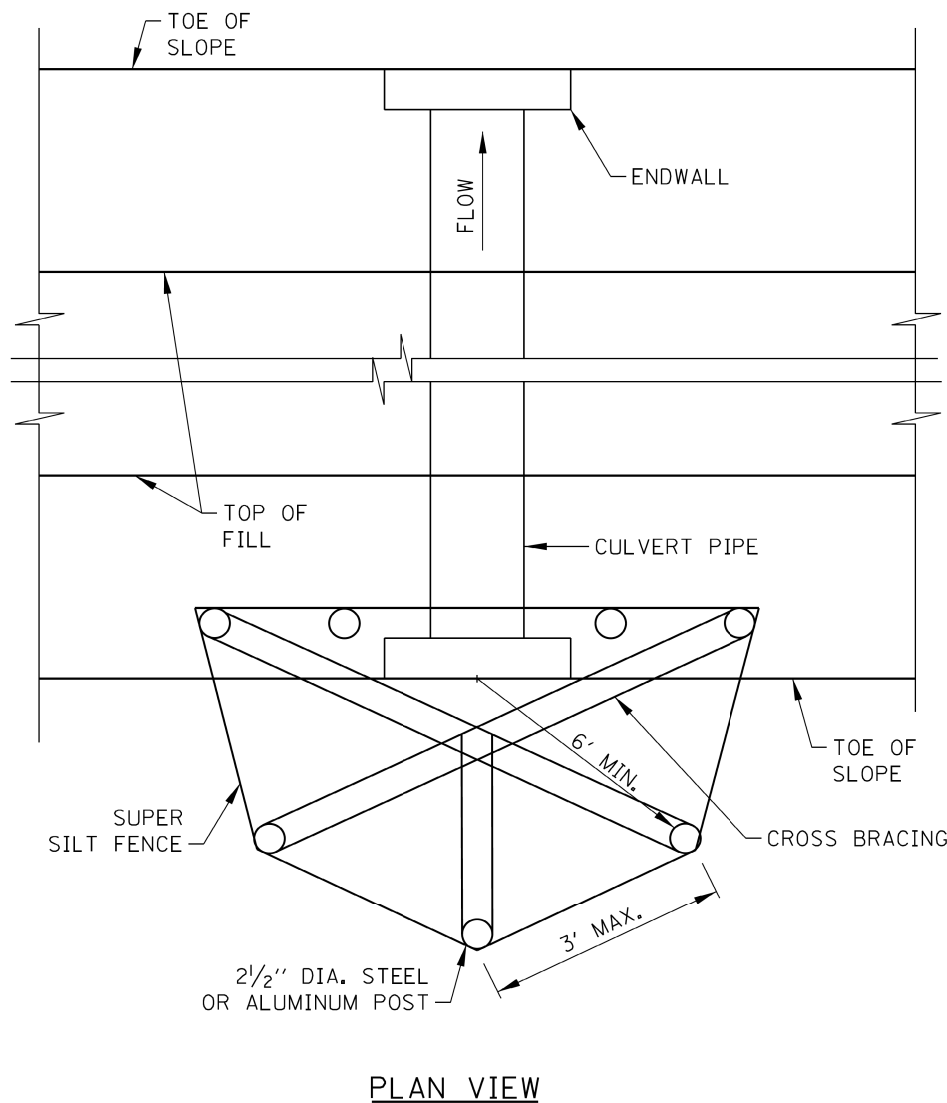
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

VETERANS MEMORIAL TRAIL
 TEMPORARY EROSION AND SEDIMENT CONTROLS DETAIL

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	11-F3001-01-BT	WILL	234	143
CONTRACT NO. 61G74				
ILLINOIS FED. AID PROJECT				

FILE NAME = p:\a\escom-no-pw-bentl\gpfam\CDL\DS28_NA_2019\Documents\25369593-Forest-Preserve-District\900-CAD\GIS\910-CAD\WIP\CDL\Drawings\Details\DET_TEMP_ESC-01.dgn

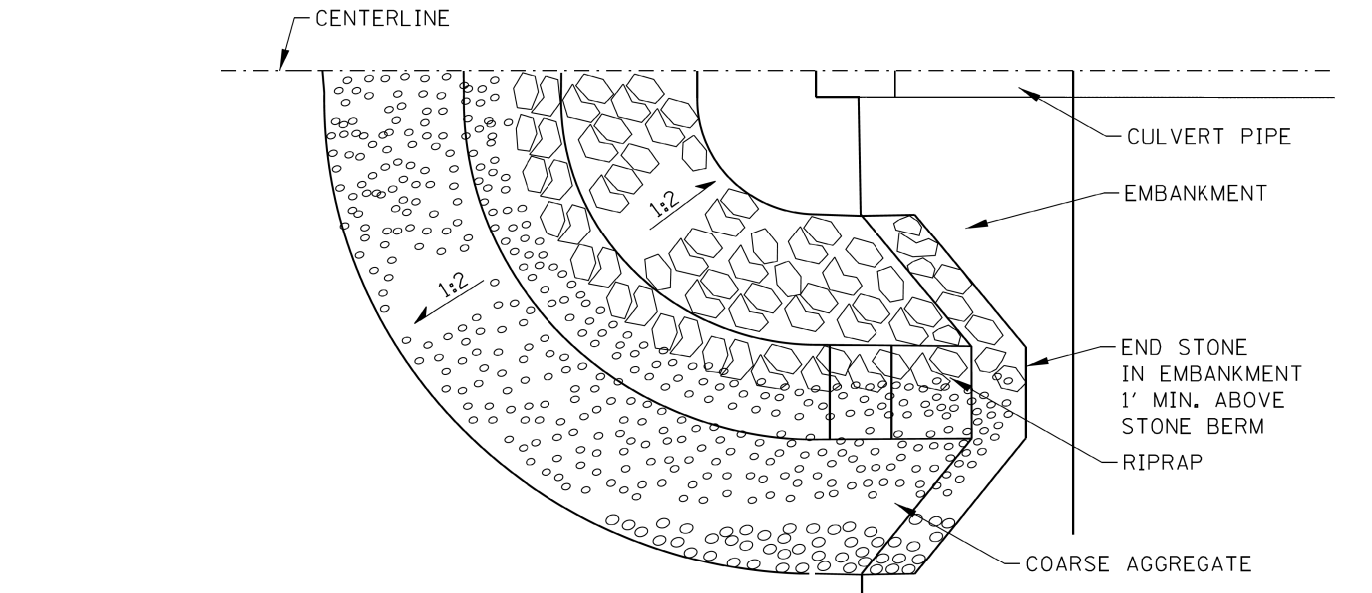
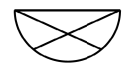


PLAN VIEW

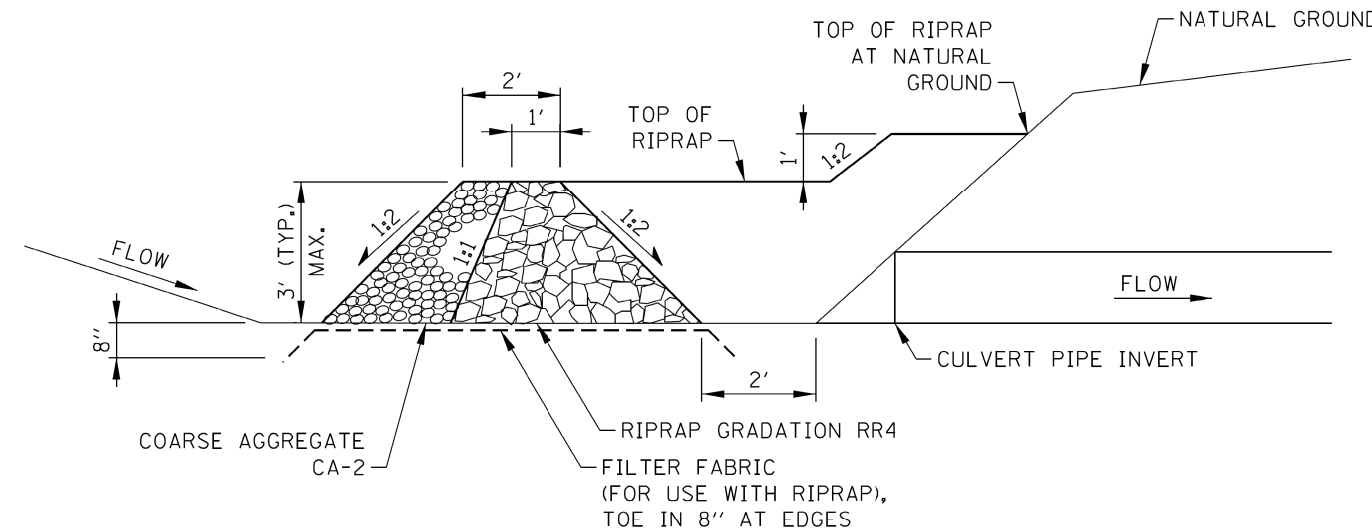
NOTES:

1. CONSTRUCT SUPER SILT FENCE PER SHEET 6 IN THIS SERIES, EXCEPT THE MAXIMUM POST SPACING SHALL BE 3 FEET, THE PLACEMENT OF THE SUPER SILT FENCE SHALL BE A MINIMUM OF 6 FEET FROM THE CULVERT IN THE DIRECTION OF INCOMING FLOW AND THE TOPS OF POSTS SHALL BE CROSS BRACED.
2. MAINTENANCE SHALL BE PERFORMED AS NEEDED. SEDIMENT SHALL BE REMOVED WHEN IT REACHES 50% OF THE FENCE HEIGHT.
3. THE CULVERT INLET PROTECTION AND SEDIMENT SHALL BE REMOVED WHEN CONSTRUCTION IS COMPLETE.
4. THE CULVERT INLET PROTECTION - FENCE TO BE MEASURED AND PAID FOR AS SUPER SILT FENCE.

CULVERT INLET PROTECTION - FENCE
STANDARD SYMBOL



HALF PLAN VIEW



CENTERLINE CROSS SECTION

NOTES:

1. MAINTENANCE SHALL BE PERFORMED AS NEEDED. SEDIMENT SHALL BE REMOVED WHEN IT REACHES 50% OF THE STONE HEIGHT.
2. THE CULVERT INLET PROTECTION AND SEDIMENT SHALL BE REMOVED WHEN CONSTRUCTION IS COMPLETE.
3. THE CULVERT INLET PROTECTION - STONE TO BE MEASURED AND PAID FOR AS TEMPORARY RIPRAP.

CULVERT INLET PROTECTION - STONE
STANDARD SYMBOL



EROSION CONTROL & LANDSCAPE

STANDARD K1-09

APPROVED: *Paul Kovacs* DATE 2-7-2012
CHIEF ENGINEERING OFFICER



USER NAME = kenuoy	DESIGNED - JN	REVISED -
PLOT SCALE = 20.0000' / in.	DRAWN - JN	REVISED -
PLOT DATE = 2/8/2021	CHECKED - KLM	REVISED -
	DATE - 2/09/2021	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

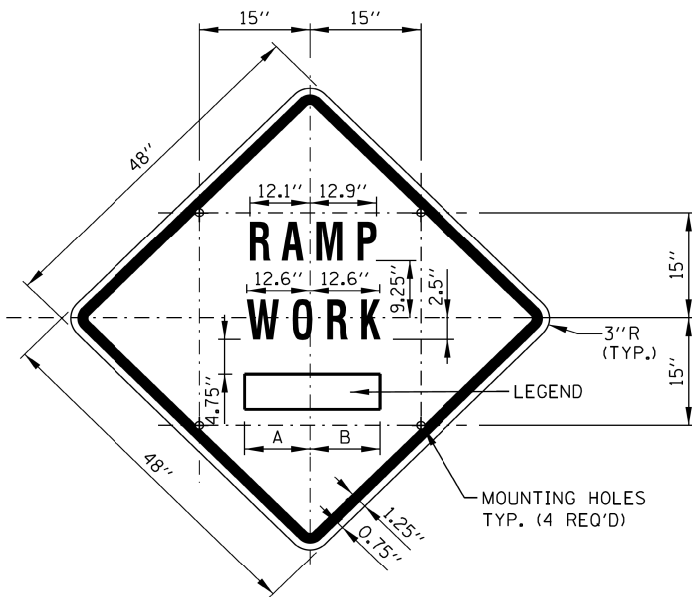
VETERANS MEMORIAL TRAIL
TEMPORARY EROSION AND SEDIMENT CONTROLS DETAIL

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	11-F3001-01-BT	WILL	234	144
CONTRACT NO. 61G74				

ILLINOIS FED. AID PROJECT

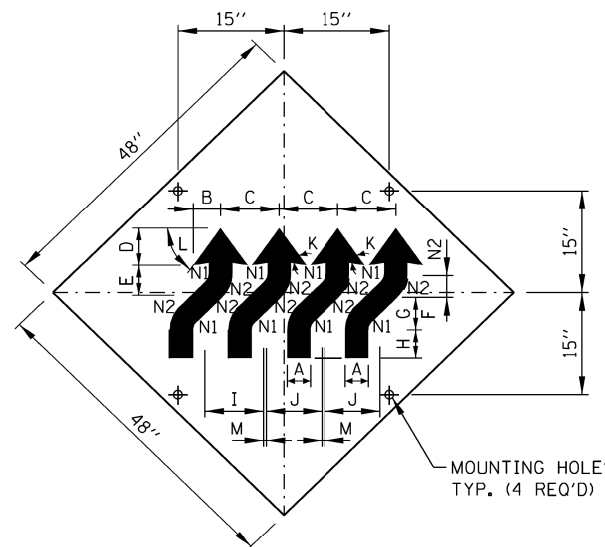
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SIGN TS-2 (O)

COLOR: BACKGROUND - FLUORESCENT ORANGE (O)
 BORDER AND SYMBOL - BLACK
 SIZE: 48"x48"
 LETTERING: 7" FEDERAL SERIES D
 MOUNTING HOLES: 7/16" DIA., 4 HOLES SPACED AS SHOWN

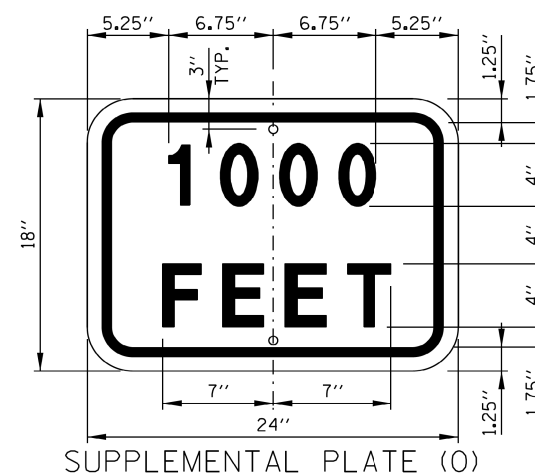
SIGN NO.	LEGEND	A	B
TS-2A	AHEAD	15.50"	15.50"
TS-2B	500 FT	14.25"	15.13"
TS-2C	1000 FT	14.88" L2	15.75" L2
TS-2D	1500 FT	14.88" L2	15.75" L2
TS-2E	1/2 MILE	15.75" L3	15.75" L3
TS-2F	1 MILE	13.06"	13.06"



SIGN W1-4dR (O)

COLOR: BACKGROUND-FLUORESCENT ORANGE (O)
 TYPE A REFLECTIVE
 SHEETING PER STANDARD
 SPECIFICATIONS (* A)
 BORDER AND LETTERS-BLACK
 SIZE: 48"x48"
 MOUNTING HOLES: 7/16" DIA., 4 HOLES SPACED AS SHOWN.

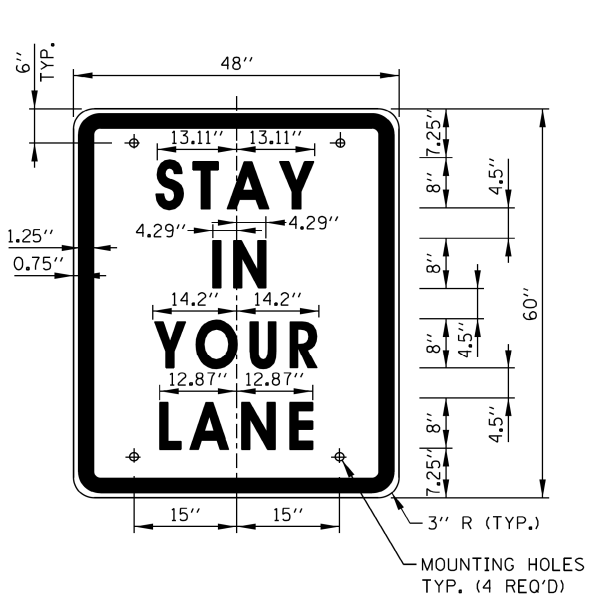
A	4 1/2"
B	5 3/4"
C	12 1/2"
D	7 3/4"
E	6 1/2"
F	4 1/2"
G	6 1/2"
H	6"
I	12 3/4"
J	12"
K	45°
L	55°
M	3/4"
N1	2"
N2	6 1/2"



COLOR: BACKGROUND - FLUCRESCENT ORANGE (O)
 BORDER AND LETTTERS - BLACK
 SIZE: 24"x18"
 LETTERING: 4" FEDERAL SERIES D
 MOUNTING HOLES: 7/16" DIA., 2 HOLES SPACED AS SHOWN

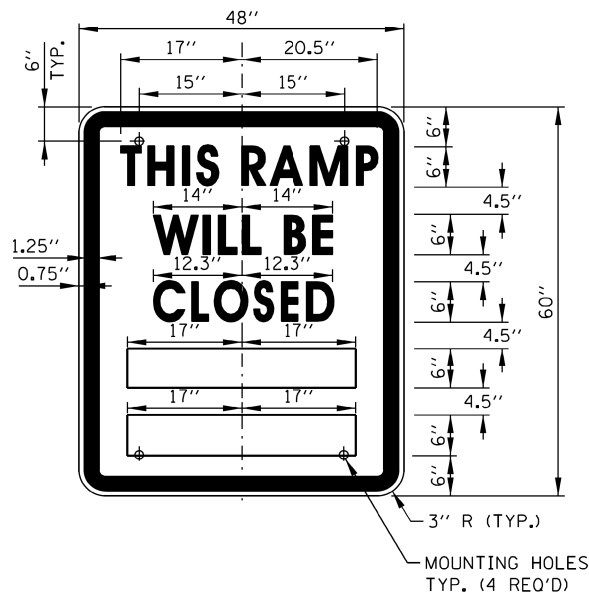
NOTES:

- ALL LETTERING IS DESIGNATED BY SIZE AND SERIES IN ACCORDANCE WITH THE LATEST EDITION OF "STANDARD ALPHABETS FOR HIGHWAY SIGNS AND PAVEMENT MARKINGS" AS PUBLISHED BY THE U.S. DEPARTMENT OF TRANSPORTATION. LETTERING SPACING SHALL BE IN ACCORDANCE WITH THIS GUIDE EXCEPT WHERE NOTED.
- SYMBOLS AND ARROWS SHALL CONFORM TO THE DETAILS SHOWN IN THE LATEST EDITION OF "STANDARD HIGHWAY SIGNS" AS PUBLISHED BY THE U.S. DEPARTMENT OF TRANSPORTATION.
- SEE THE CONTRACT REQUIREMENTS FOR ADDITIONAL NOTES AND SPECIFICATIONS.
 (O) FLUORESCENT ORANGE REFLECTIVE SHEETING PER THE STANDARD SPECIFICATIONS.
 (* A) - REFLECTIVE SHEETING PER THE STANDARD SPECIFICATIONS.
- DIMENSIONS INDICATED THUS L ARE BASED ON A REDUCTION IN STANDARD LETTERING SPACING AS SHOWN BELOW:
 L1 SPACING REDUCED BY 25%
 L2 SPACING REDUCED BY 40%
 L3 SPACING REDUCED BY 50%



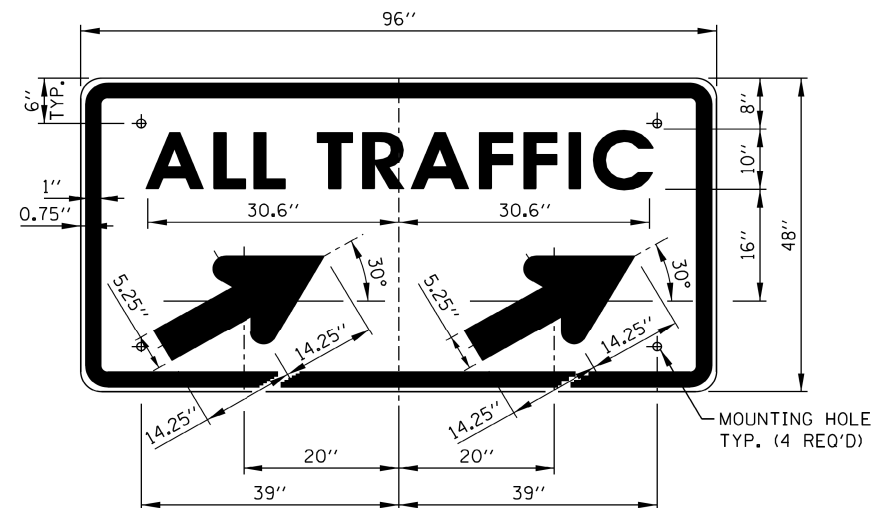
SIGN TS-3

COLOR: BACKGROUND - WHITE (REFLECTORIZED) (* A)
 BORDER AND LETTERS - BLACK
 SIZE: 48"x60"
 LETTERING: LEGEND - 8" FEDERAL SERIES D
 MOUNTING HOLES: 7/16" DIA., 4 HOLES, SPACED AS SHOWN



SIGN TS-4

COLOR: BACKGROUND - WHITE (REFLECTORIZED) (* A)
 BORDER AND LETTERS - BLACK
 SIZE: 48"x60"
 LETTERING: LEGEND - 6" FEDERAL SERIES C
 MOUNTING HOLES: 7/16" DIA., 4 HOLES, SPACED AS SHOWN



SIGN TS-5a & TS-5b

COLOR: BACKGROUND - WHITE (REFLECTORIZED) (* A)
 BORDER AND LETTERS - BLACK
 ARROW - BLACK
 SIZE: 96"x48"
 LETTERING: 10" FEDERAL SERIES D
 MOUNTING HOLES: 7/16" DIA., 4 HOLES, SPACED AS SHOWN
 NOTE: SIGN TS-5a IS SHOWN, SUBSTITUTE LEGEND "↗" FOR "↘" FOR SIGN TS-5b

RAMP CLOSURE ADVANCE INFORMATION SIGN

THE VARIABLE MESSAGE WITH DATES FOR THE BOTTOM TWO LINES SHALL BE DETERMINED BY THE ENGINEER AND GIVEN TO THE CONTRACTOR BEFORE THE REQUIRED FIELD ERECTION DATE.

APPROVED: *Paul Kovacs*
 CHIEF ENGINEERING OFFICER DATE: 5-1-2009



USER NAME = ken.moy
 DESIGNED - JN
 DRAWN - JN
 CHECKED - KLM
 DATE - 2/09/2021

REVISED -
 REVISED -
 REVISED -
 REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

VETERANS MEMORIAL TRAIL
 CONSTRUCTION SIGNS DETAIL

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

DATE	REVISIONS
11-01-12	DELETED SIGN TS-1
03-31-14	REVISED FINE SIGN NUMBER AND ADDED LED SPEED LIMIT DISPLAY
3-11-2015	REVISED NOTES
3-31-2017	REVISED END WZSL SIGN COLOR
3-01-2019	REMOVED STANDARD IDOT SIGNS, REVISED WZSL ASSEMBLY, ADDED WZSL TRANSITION

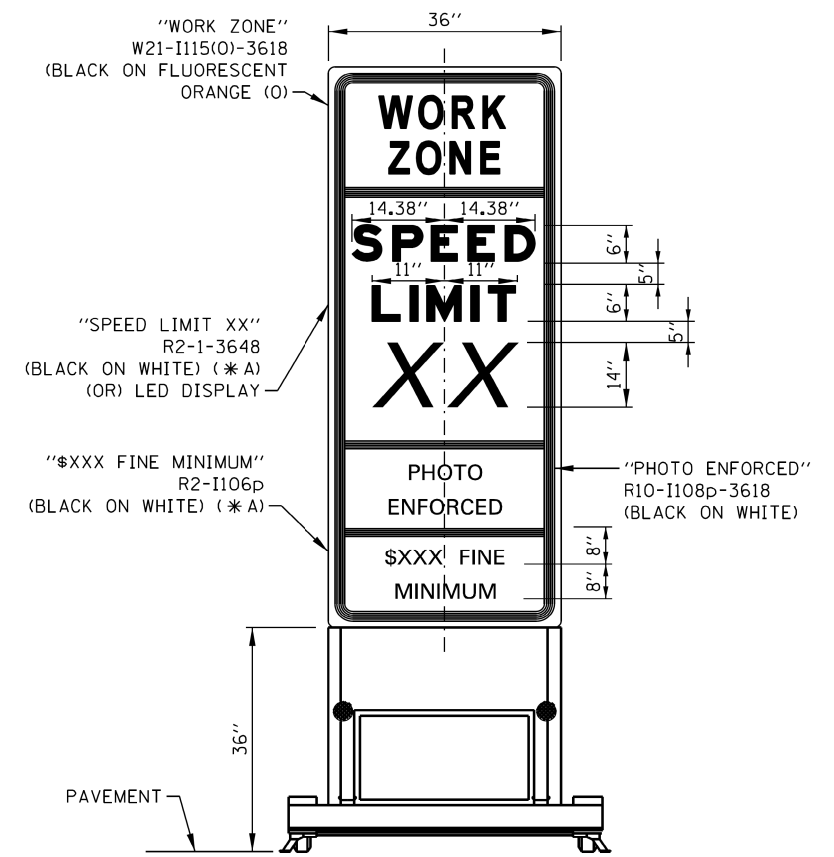
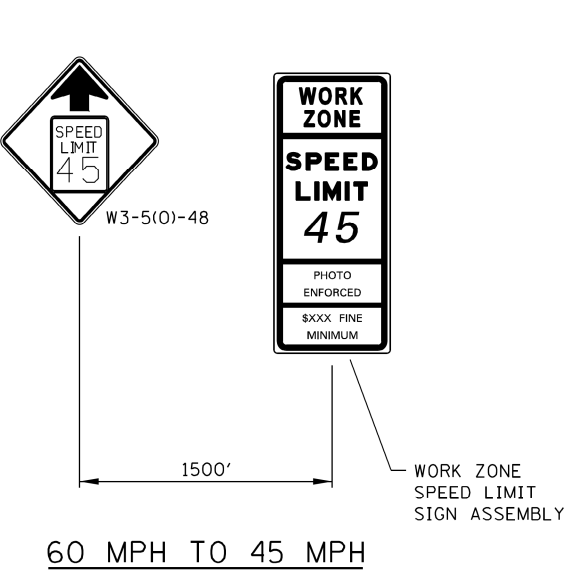
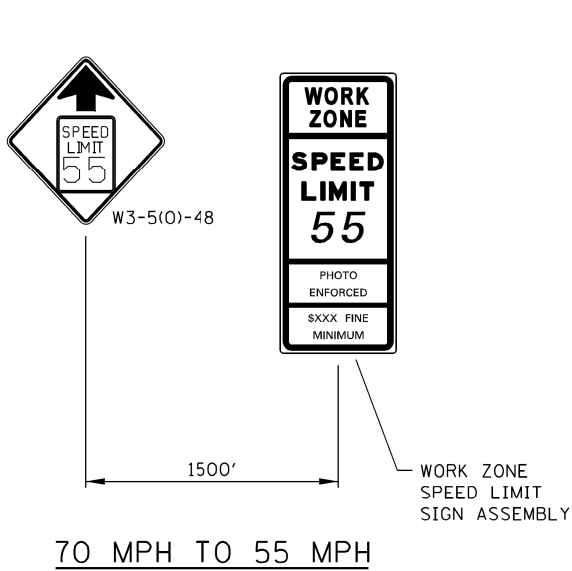
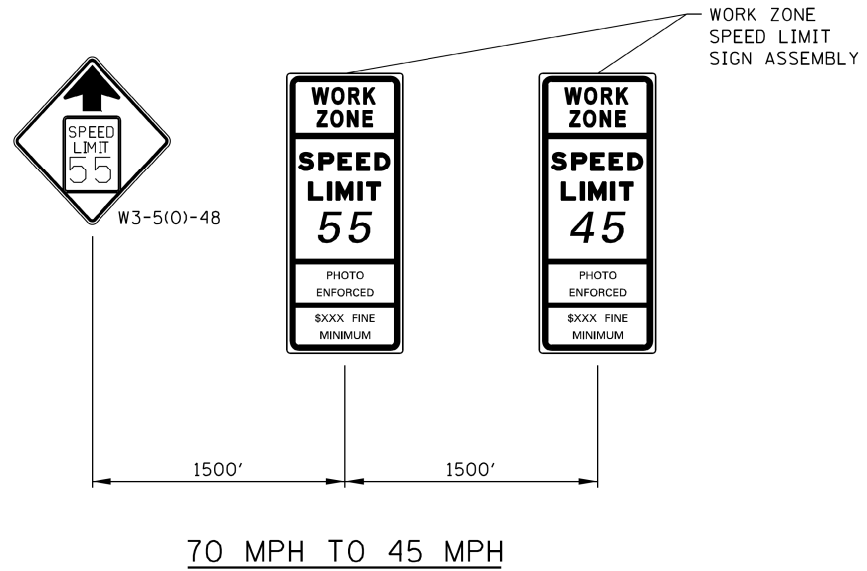


CONSTRUCTION SIGNS

STANDARD E1-07

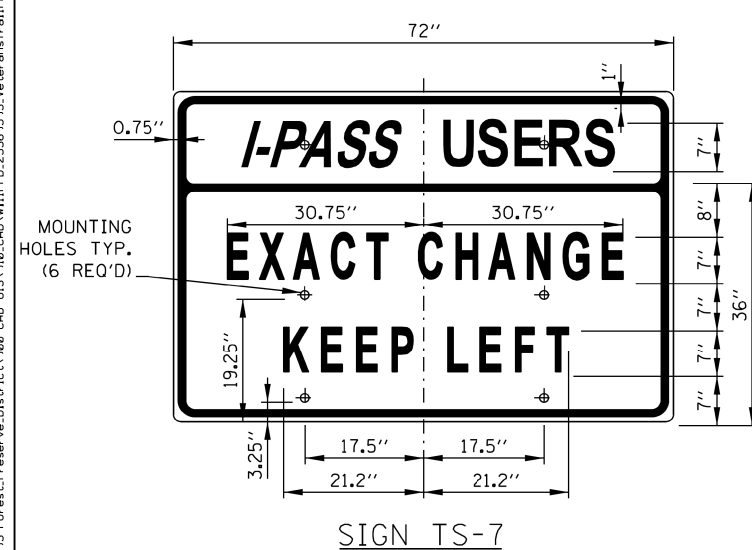
F.A. RTÉ.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	11-F3001-01-BT	WILL	234	145
				CONTRACT NO. 61G74
ILLINOIS FED. AID PROJECT				

FILE NAME = p:\aecom-no-pw-bentl\gfa\m\CDL\DS20_NA_2019\Documents\25369593-Forest_Preserve-District\900-CAD_GIS\910-CAD_WillIFPD_25369593_VeteransTrailPh2_Drawings\Details\DET_MDT_Construction_Signs-02.dgn

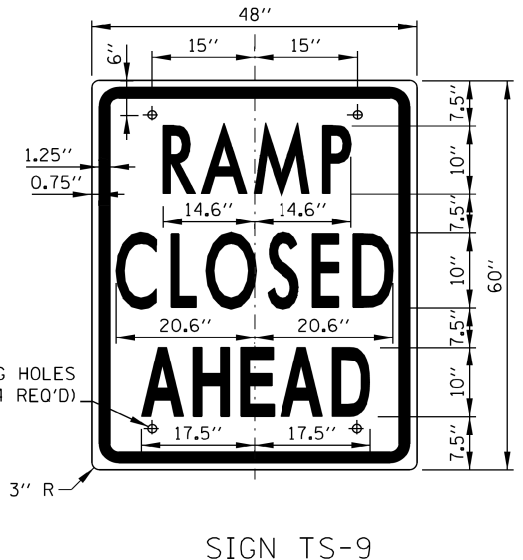


WORK ZONE SPEED LIMIT TRANSITION SIGNAGE

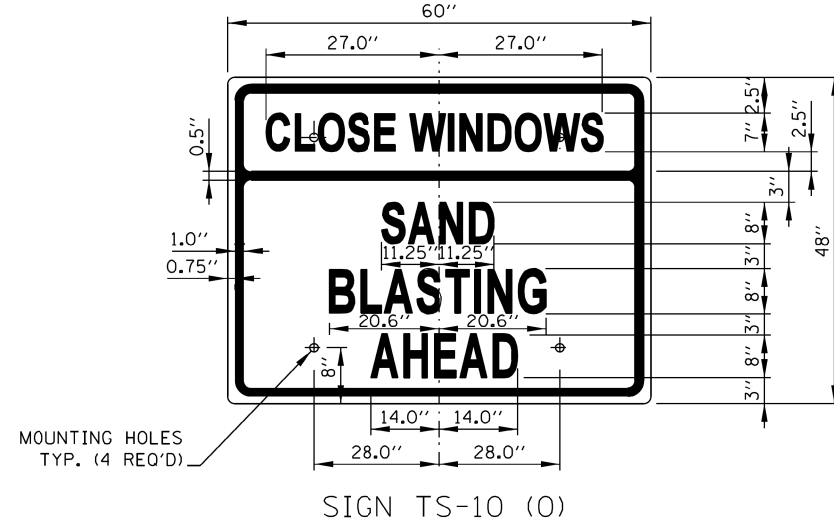
WORK ZONE SPEED LIMIT SIGN ASSEMBLY



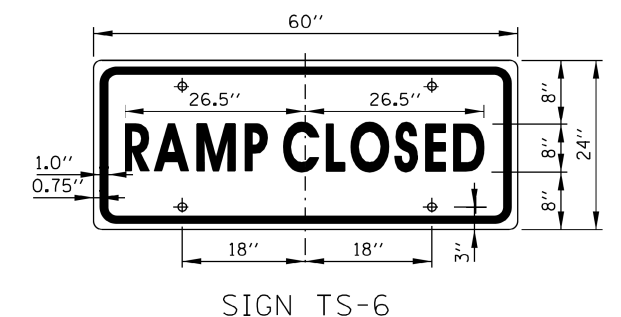
SIGN TS-7
 COLOR: BACKGROUND - WHITE (REFLECTORIZED) (* A)
 BORDER AND LETTERS - BLACK
 SIZE: 72"x36"
 LETTERING: 7" FEDERAL SERIES C
 MOUNTING HOLES: 7/16" DIA., 4 HOLES SPACED AS SHOWN



SIGN TS-9
 COLOR: BACKGROUND - WHITE (REFLECTORIZED) (* A)
 BORDER AND LETTERS - BLACK
 SIZE: 48"x60"
 LETTERING: 10" FEDERAL SERIES C
 MOUNTING HOLES: 7/16" DIA., 4 HOLES SPACED AS SHOWN



SIGN TS-10 (O)
 COLOR: BACKGROUND - FLUORESCENT ORANGE (O)
 BORDER AND LETTERS - BLACK
 SIZE: 60"x48"
 LETTERING: 8" FEDERAL SERIES C, 7" FEDERAL SERIES B
 MOUNTING HOLES: 7/16" DIA., 4 HOLES SPACED AS SHOWN



SIGN TS-6
 COLOR: BACKGROUND - WHITE (REFLECTORIZED) (* A)
 BORDER AND LETTERS - BLACK
 SIZE: 60"x24"
 LETTERING: 8" FEDERAL SERIES C
 MOUNTING HOLES: 7/16" DIA., 4 HOLES SPACED AS SHOWN

NOTE:
 SEE SHEET 1 OF THIS SERIES FOR NOTES.



CONSTRUCTION SIGNS

STANDARD E1-07

APPROVED: *Paul Kovacs* DATE: 5-1-2009
 CHIEF ENGINEERING OFFICER



USER NAME = kenuoy	DESIGNED - JN	REVISED -
PLOT SCALE = 20.0000' / in.	DRAWN - JN	REVISED -
PLOT DATE = 2/8/2021	CHECKED - KLM	REVISED -
	DATE - 2/09/2021	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

VETERANS MEMORIAL TRAIL
 CONSTRUCTION SIGNS DETAIL

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	11-F3001-01-BT	WILL	234	146
CONTRACT NO. 61G74				
ILLINOIS FED. AID PROJECT				

GENERAL NOTES:

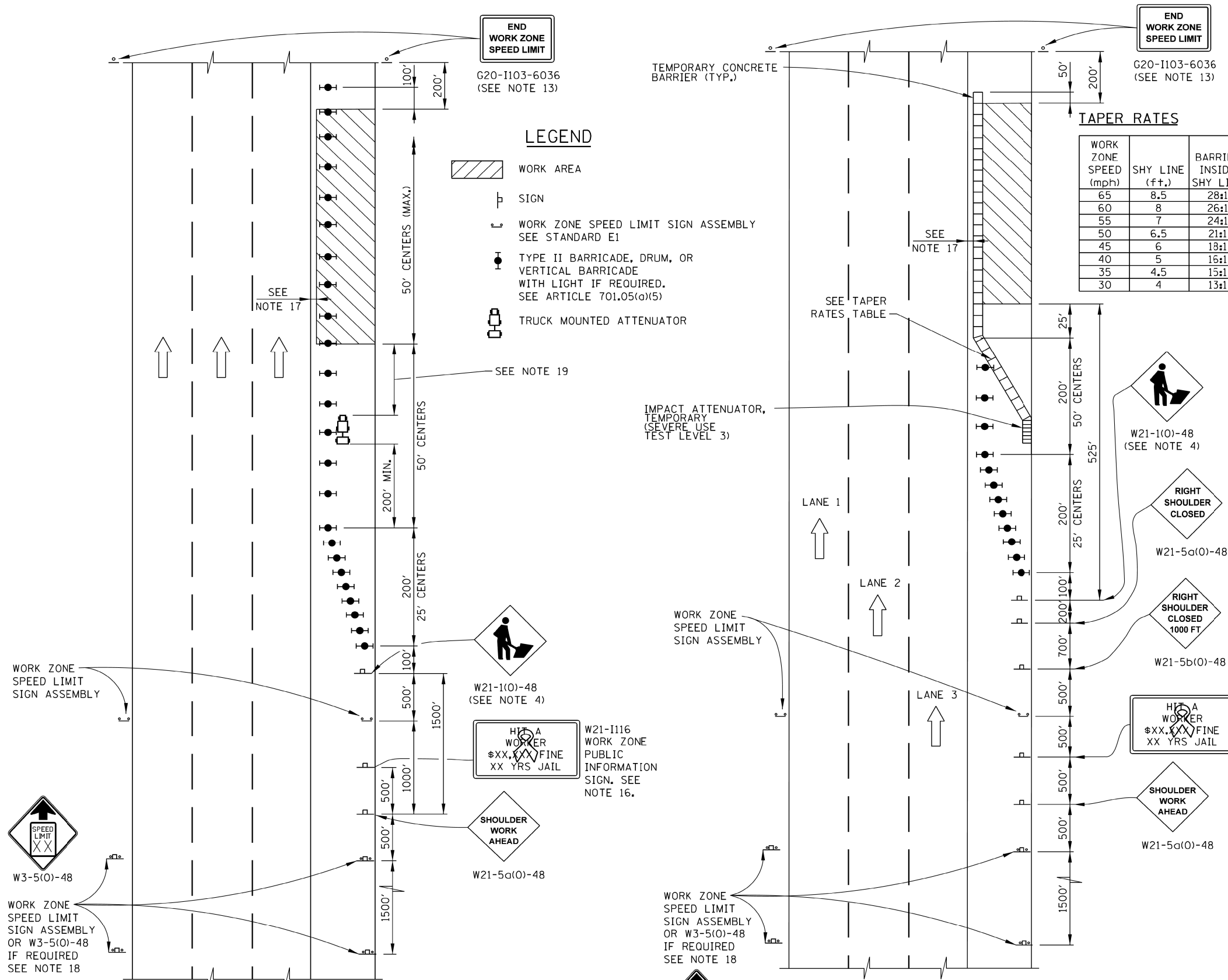
1. THE SHOULDER SHALL BE CLOSED WHEN A WORK ACTIVITY REQUIRING 15 OR MORE MINUTES IS PERFORMED AT A DISTANCE WHICH IS LESS THAN 15 FEET BUT NO CLOSER THAN 2 FEET FROM THE EDGE OF PAVEMENT.
2. THE ADJACENT EXTERIOR LANE SHALL BE CLOSED WHEN WORK IS PERFORMED WITHIN 2 FEET FROM THE EDGE OF PAVEMENT.
3. THE CHANNELIZING DEVICES WHICH SEPARATE THE WORK SPACE FROM THE ADJACENT TRAVEL LANE SHALL BE SPACED AT 25' FOR (200 FEET) AND AT A MAXIMUM OF 50' FOR ALL ADDITIONAL DEVICES.
4. WHEN THE WORKSITE IS UNATTENDED, SUBSTITUTE - "SHOULDER WORK AHEAD" SIGN.
5. WORKER SIGNS OR SHOULDER WORK SIGNS AND CHANNELIZATION DEVICES ARE PLACED ONLY ON THE SIDE OF THE ROADWAY ON WHICH THE ACTIVITY IS PERFORMED.
6. FOR SHOULDER CLOSURE EXTENDING OVERNIGHT, BARRICADE TYPE II SHALL BE USED. SEE ARTICLE 701.05(g)(5) FOR BARRICADE LIGHT REQUIREMENTS
7. FOR SHORT TERM CLOSURE (SUNRISE TO ONE HOUR BEFORE SUNSET) NOT EXTENDING INTO DARKNESS, CONES MAY BE USED.
8. ONE WORK ZONE SPEED LIMIT SIGN ASSEMBLY SHALL BE PLACED AT A DISTANCE OF 500' TO 2,500' MAXIMUM IN ADVANCE OF WORKERS THROUGHOUT THE SHOULDER CLOSURE. MOVING OPERATIONS MAY REQUIRE CONTINUOUS ADJUSTMENT OF THE SIGN ASSEMBLY LOCATION TO MAINTAIN THE ABOVE INTERVAL.
9. AN ADDITIONAL SIGN ASSEMBLY SHALL BE PLACED 500' BEYOND THE LAST ENTRANCE RAMP FOR EACH INTERCHANGE THAT FALLS WITHIN THE 2,500'.
10. THE SIGN ASSEMBLY SHALL BE PLACED NO CLOSER THAN 500' TO ANY OTHER SIGN.
11. THE WORK ZONE SPEED LIMIT SIGNS AND SIGN ASSEMBLY SHALL BE PROMPTLY REMOVED OR COVERED WHEN SHOULDER CLOSURE IS REMOVED.
12. ALL CONFLICTING SPEED LIMIT SIGNS SHALL BE COVERED OR REMOVED.
13. "END WORK ZONE SPEED LIMIT" SIGNS SHALL BE IN PLACE ONLY WHEN THE EXISTING POSTED SPEED > 55MPH.
14. FOR SHOULDER REPAIRS OR REPLACEMENT THE CHANNELIZING DEVICES SHALL BE PLACED AT THE EDGE OF PAVEMENT WHENEVER THE WORK ACTIVITIES RESULT IN A DROPOFF AT THE EDGE OF PAVEMENT.
15. ANY UNATTENDED OBSTACLE OR EXCAVATION LEFT ON THE SHOULDER OVERNIGHT SHALL BE IN COMPLIANCE WITH THE ROADWAY TRAFFIC CONTROL AND COMMUNICATIONS MANUAL.
16. THE WORK ZONE PUBLIC INFORMATION SIGN IS 60" WIDE BY 48" HIGH. THE CONTRACTOR SHALL OBTAIN THE CAMERA-READY ARTWORK REQUIRED FOR THE SIGN MESSAGE BY CONTACTING IDOT'S CENTRAL BUREAU OF OPERATIONS.
17. A 1'-0" MINIMUM/2'-0" DESIRABLE SHY DISTANCE SHALL BE PROVIDED, MEASURED BETWEEN EDGE OF PAVEMENT LANE MARKING TO THE EDGE OF THE TRAFFIC CONTROL DEVICE.
18. SEE STANDARD E1 FOR ADDITIONAL SIGNAGE REQUIRED WHEN WORK ZONE SPEED LIMIT IS REDUCED BY MORE THAN 10 MPH.

TAPER RATES

WORK ZONE SPEED (mph)	SHY LINE (ft.)	BARRIER INSIDE SHY LINE	BARRIER AT OR BEYOND SHY LINE
65	8.5	28:1	19:1
60	8	26:1	18:1
55	7	24:1	16:1
50	6.5	21:1	14:1
45	6	18:1	12:1
40	5	16:1	10:1
35	4.5	15:1	9:1
30	4	13:1	8:1

LEGEND

- WORK AREA
- SIGN
- WORK ZONE SPEED LIMIT SIGN ASSEMBLY SEE STANDARD E1
- TYPE II BARRICADE, DRUM, OR VERTICAL BARRICADE WITH LIGHT IF REQUIRED. SEE ARTICLE 701.05(g)(5)
- TRUCK MOUNTED ATTENUATOR



19. IN WORK ZONES WITH NO POSITIVE PROTECTION, A TRUCK MOUNTED ATTENUATOR SHALL BE PROVIDED WITH A BUFFER AREA BETWEEN THE FRONT OF THE TMA AND WORKERS OR EQUIPMENT. THE BUFFER AREA SHALL BE 200' UNLESS OTHERWISE DETERMINED. WHERE WORKERS OR EQUIPMENT ARE PRESENT BEYOND THE WORK AREA, AN ADDITIONAL TMA SHALL BE PROVIDED FOR EACH WORK AREA IS DEFINED AS STARTING AT THE END OF THE BUFFER AREA, EXTENDING 1000 FEET BEYOND THIS POINT.

DATE	REVISIONS
1-01-11	CHANGED SYMBOL DESIGNATION REVISED NOTES
3-31-14	REVISED WORKER SIGN NUMBERS PER "MUTCD" AND REVISED NOTES.
3-11-2015	REVISED NOTES
3-31-2016	ADD WORK ZONE WITH BARRIERS.
3-31-2017	ADDED TAPER RATE TABLE.
3-01-2019	DELETED W21-1g, ADJUSTED SIGN SPACING, ADDED TMA, REVISED NOTES
3-01-2020	CLARIFIED TMA REQUIREMENTS & UPDATED BARRICADE LIGHT REQUIREMENTS

Illinois Tollway

SHOULDER CLOSURE DETAILS

STANDARD E3-08

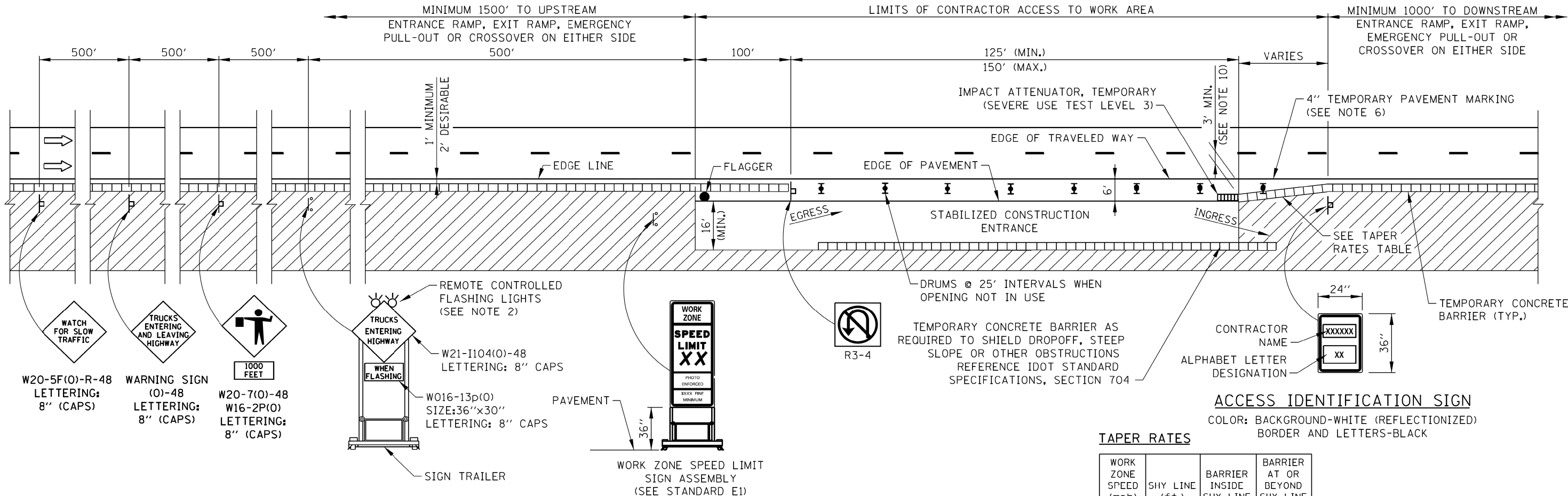
APPROVED: *Paul Kovacs* DATE 5-1-2009
CHIEF ENGINEERING OFFICER

AECOM 303 East Wacker Drive, Suite 1400, Chicago, IL 60601 T 1-312-373-7700 F 1-312-373-6800	USER NAME = ken.moy	DESIGNED - JN	REVISED -
	PLOT SCALE = 20.0000' / in.	DRAWN - JN	REVISED -
	PLOT DATE = 2/8/2021	CHECKED - KLM	REVISED -
		DATE - 2/09/2021	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**VETERANS MEMORIAL TRAIL
SHOULDER CLOSURE DETAILS**

FILE NAME = p:\a\escom-no-pw-bentl\gfa\m\CDL\DS28_NA_2019\Documents\25369593-Forest-Prereserve-District\900-CAD GIS\910-CAD\W11\FPD_25369593_VeteransTrail\Ph2\Drawings\Details\DET_MDT_Shoulder_Closure-01.dgn



CONTRACTOR ACCESS TO WORK AREA WITH BARRIER WALL

NOTES:

- SIGNS DESIGNATED FOR THIS ACCESS TO WORK AREA SHALL BE COVERED OR TURNED AWAY FROM THE TRAFFIC WHEN THE FLAGGER IS NOT ON STATION AND THE ACCESS OPENINGS ARE NOT IN USE.
- THE FLASHING WARNING LIGHT SHALL MEET THE REQUIREMENTS OF ILLINOIS TOLLWAY SUPPLEMENTAL SPECIFICATIONS AND BE OPERATED BY THE FLAGGER REMOTELY. THE LIGHTS SHALL BE FLASHING ONLY WHEN A VEHICLE IS ENTERING THE ILLINOIS TOLLWAY.
- WHEN THREE LANES OR MORE ARE OPENED TO TRAFFIC, ADVANCE WARNING SIGNS AND ASSEMBLIES SHALL BE PROVIDED ON BOTH SIDES OF TRAVELED WAY.
- WHEN CONTRACTOR ACCESS TO WORK AREA IS ON OPPOSITE SIDE FROM SHOWN, ALL INSTALLATIONS ARE MIRROR IMAGE.
- FOR NIGHTTIME OPERATIONS, TEMPORARY LIGHTING OF CONSTRUCTION ACCESS TO WORK AREA SHALL BE PROVIDED.
- TEMPORARY PAVEMENT MARKINGS SHALL BE REPLACED AS OFTEN AS NECESSARY TO DELINEATE OPENINGS.
- IF POSSIBLE, LANE CLOSURES SHALL BE UTILIZED TO ELIMINATE THE MERGING OF CONSTRUCTION TRAFFIC INTO THROUGH TRAFFIC LANES.
- A 1'-0" MINIMUM/2'-0" DESIRABLE SHY DISTANCE SHALL BE PROVIDED, MEASURED BETWEEN EDGE OF PAVEMENT LANE MARKING TO THE EDGE OF THE TRAFFIC CONTROL DEVICES.
- "TRUCKS ENTERING HIGHWAY" SIGN MAY BE SUPPORTED BY OPTIONAL POST OR STAND MOUNTED DEVICES WHEN POSITIONED BEHIND TEMPORARY CONCRETE BARRIER.
- A TEMPORARY EXCEPTION TO THE 3' MINIMUM CLEARANCE BETWEEN EDGE OF TRAVELED WAY AND EDGE OF ATTENUATOR MAY BE REQUESTED FOR PCC PAVING OPERATIONS WHEN THIS CONFIGURATION DOES NOT PROVIDE 4' OF CLEARANCE BETWEEN BACK OF ATTENUATOR AND THE PROPOSED EDGE OF THE LANE BEING CONSTRUCTED IN THE CURRENT STAGE. THE DURATION OF REDUCED CLEARANCE SHALL BE LIMITED TO 24 HOURS.
- CONTRACTOR ACCESS LOCATIONS SHALL BE SPACED NO CLOSER THAN 2,600 FEET BETWEEN AREAS, EXCEPT FOR BRIDGE WORK WHERE 1 ACCESS LOCATION MAY BE PROVIDED ON EACH SIDE OF THE STRUCTURE. AT THESE LOCATIONS, ONLY 1 ACCESS LOCATION AT A TIME WILL BE ALLOWED TO BE OPEN FOR USE.
- EXITING THE WORK ZONE AT ANY PLACE OTHER THAN AT WORK ZONE EXIT OPENING WILL BE PROHIBITED.
- ALL VEHICLES SHALL USE THEIR TURN SIGNALS TO WARN MOTORISTS WHEN ENTERING AND EXITING THE WORK ZONE OPENINGS.
- FLAGGERS SHALL NOT STOP TRAFFIC OR DIRECT TRAFFIC INTO AN ADJACENT LANE.
- IN WORK ZONES WITH NO POSITIVE PROTECTION, A TRUCK MOUNTED ATTENUATOR (TMA) SHALL BE PROVIDED WITH A BUFFER AREA BETWEEN THE FRONT OF THE TMA AND WORKERS OR EQUIPMENT. THE BUFFER AREA SHALL BE 200' UNLESS OTHERWISE DETERMINED. WHERE WORKERS OR EQUIPMENT ARE PRESENT BEYOND THE WORK AREA, AN ADDITIONAL TMA SHALL BE PROVIDED FOR EACH WORK AREA. A WORK AREA IS DEFINED AS STARTING AT THE END OF THE BUFFER AREA, EXTENDING 1000 FEET BEYOND THIS POINT.

TAPER RATES

WORK ZONE SPEED (mph)	SHY LINE (ft.)	BARRIER INSIDE SHY LINE	BARRIER AT OR BEYOND SHY LINE
65	8.5	28:1	19:1
60	8	26:1	18:1
55	7	24:1	16:1
50	6.5	21:1	14:1
45	6	18:1	12:1
40	5	16:1	10:1
35	4.5	15:1	9:1
30	4	13:1	8:1

LEGEND

- FLAGGER
- SPOTTER
- ▮ CONSTRUCTION SIGN ON SUPPORT PER ILLINOIS TOLLWAY STANDARD UNLESS NOTED
- ➡ DIRECTION OF TRAFFIC FLOW
- ▨ WORK AREA
- ⊥ DRUM WITH LIGHT IF REQUIRED. SEE ARTICLE 701.05(d)(5)
- 🚚 TRUCK MOUNTED ATTENUATOR (TMA) (ROLL WITH MOVING OPERATION)

DATE	REVISIONS
3-01-2013	REVISED NOTES.
3-31-2014	REVISED NOTE FOR TEMPORARY CONCRETE BARRIER.
3-31-2017	ADDED TAPER RATES TABLE
3-01-2018	ADDED NOTES 10 & 11
3-01-2019	ADDED SHEET FOR DETAILS WITHOUT BARRIER WALL
3-01-2020	CLARIFIED TMA REQUIREMENTS & UPDATED BARRICADE LIGHT REQ.

SHEET 1 OF 2

CONTRACTOR ACCESS TO WORK AREA

STANDARD E6-06

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	11-F3001-01-BT	WILL	234	148

CONTRACT NO. 61G74

ILLINOIS FED. AID PROJECT

FILE NAME = p:\a\escom-no-pw-bentl\gdfam\AE\CON\DS20_NA_2019\Documents\25369593-Forest-Reserve-District\900-CAD\GIS\910-CAD\WIIIFPD_25369593_VeteransTrail\Ph2-Drawings\Details\DET_MDT_Contractor_Access-01.dgn

APPROVED: *Paul Kovacs* DATE: 2-7-2021
CHIEF ENGINEERING OFFICER

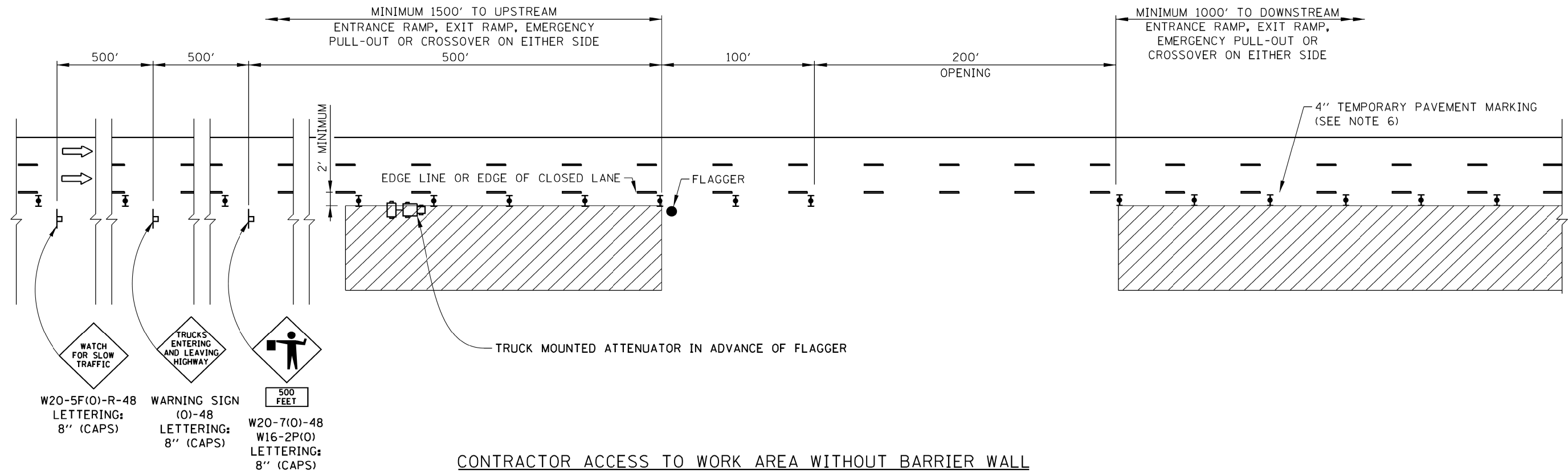


USER NAME	DESIGNED	REVISIONS
ken.moy	JN	-
	JN	-
	KLM	-
		-

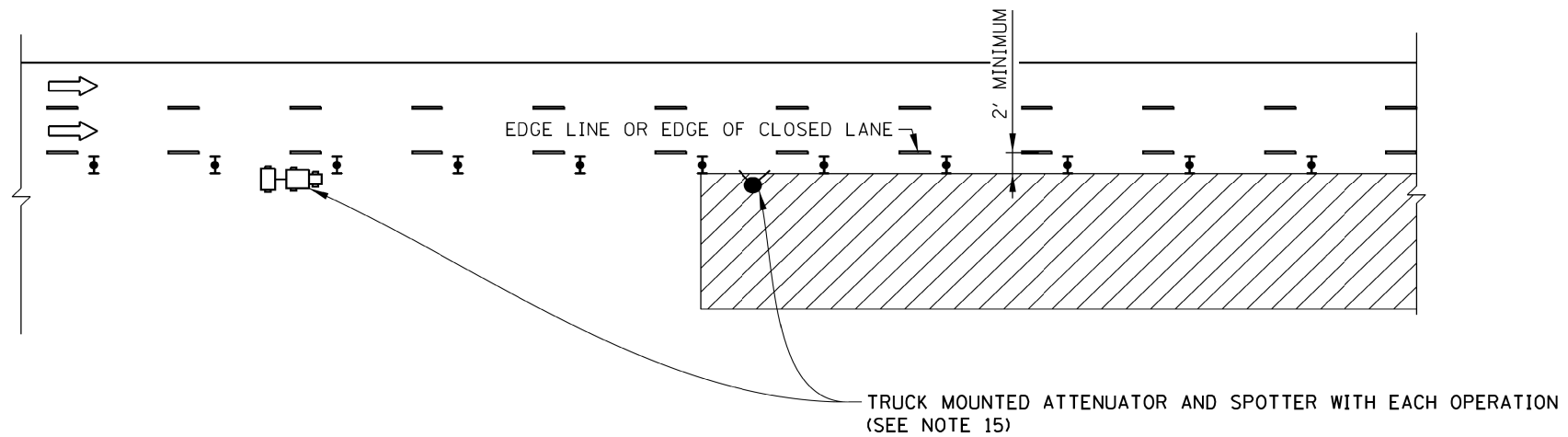
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**VETERANS MEMORIAL TRAIL
CONTRACTOR ACCESS TO WORK AREA**

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



- LEGEND**
- FLAGGER
 - SPOTTER
 - CONSTRUCTION SIGN ON SUPPORT PER ILLINOIS TOLLWAY STANDARD UNLESS NOTED
 - ➔ DIRECTION OF TRAFFIC FLOW
 - ▨ WORK AREA
 - ⊕ DRUM WITH LIGHT IF REQUIRED. SEE ARTICLE 701.05(d)(5)
 - TRUCK MOUNTED ATTENUATOR (TMA) (ROLL WITH MOVING OPERATION)



SPOTTER AND TMA AT WORK AREA



CONTRACTOR ACCESS TO WORK AREA

STANDARD E6-06

APPROVED: *Paul Kovacs* DATE: 2-7-2012
CHIEF ENGINEERING OFFICER



USER NAME = ken.moy	DESIGNED - JN	REVISED -
PLOT SCALE = 20.0000' / in.	DRAWN - JN	REVISED -
PLOT DATE = 2/8/2021	CHECKED - KLM	REVISED -
	DATE - 2/09/2021	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

VETERANS MEMORIAL TRAIL
CONTRACTOR ACCESS TO WORK AREA

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

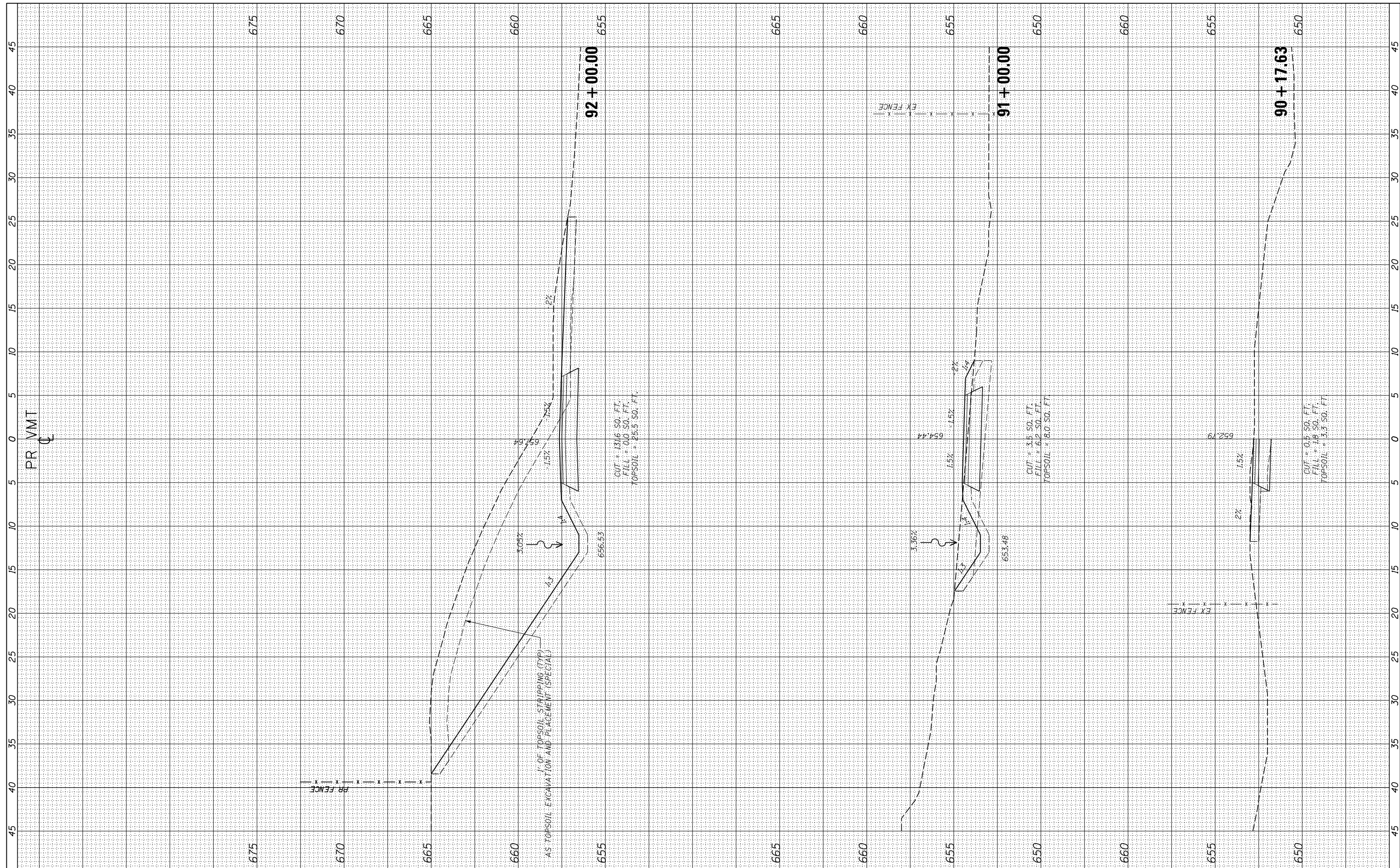
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	11-F3001-01-BT	WILL	234	149
CONTRACT NO. 61G74				

ILLINOIS FED. AID PROJECT

FILE NAME = p:\aecom-na-pw-bentl\gafamb\CDL\DS28_NA_2019\Documents\25369593-Forrest- Preserve-District\900-CAD GIS\10-CAD\W11\FPD_25369593_VeteransTrail\Ph2-Drawings\Details\DET_MDT_Contractor-Access-02.dgn

FINAL SURVEY NO.	SURVEYED PLOTTED	BY	DATE
NOTE BOOK NO.	TEMPLATE AREAS CHECKED		

ORIGINAL SURVEY NO.	SURVEYED PLOTTED	BY	DATE
	TEMPLATE AREAS CHECKED		



USER NAME = ken.moy
 DESIGNED - KLM
 DRAWN - KJB
 CHECKED - BMC
 DATE - 2/09/2021

REVISIONS
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 REVISED -
 REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

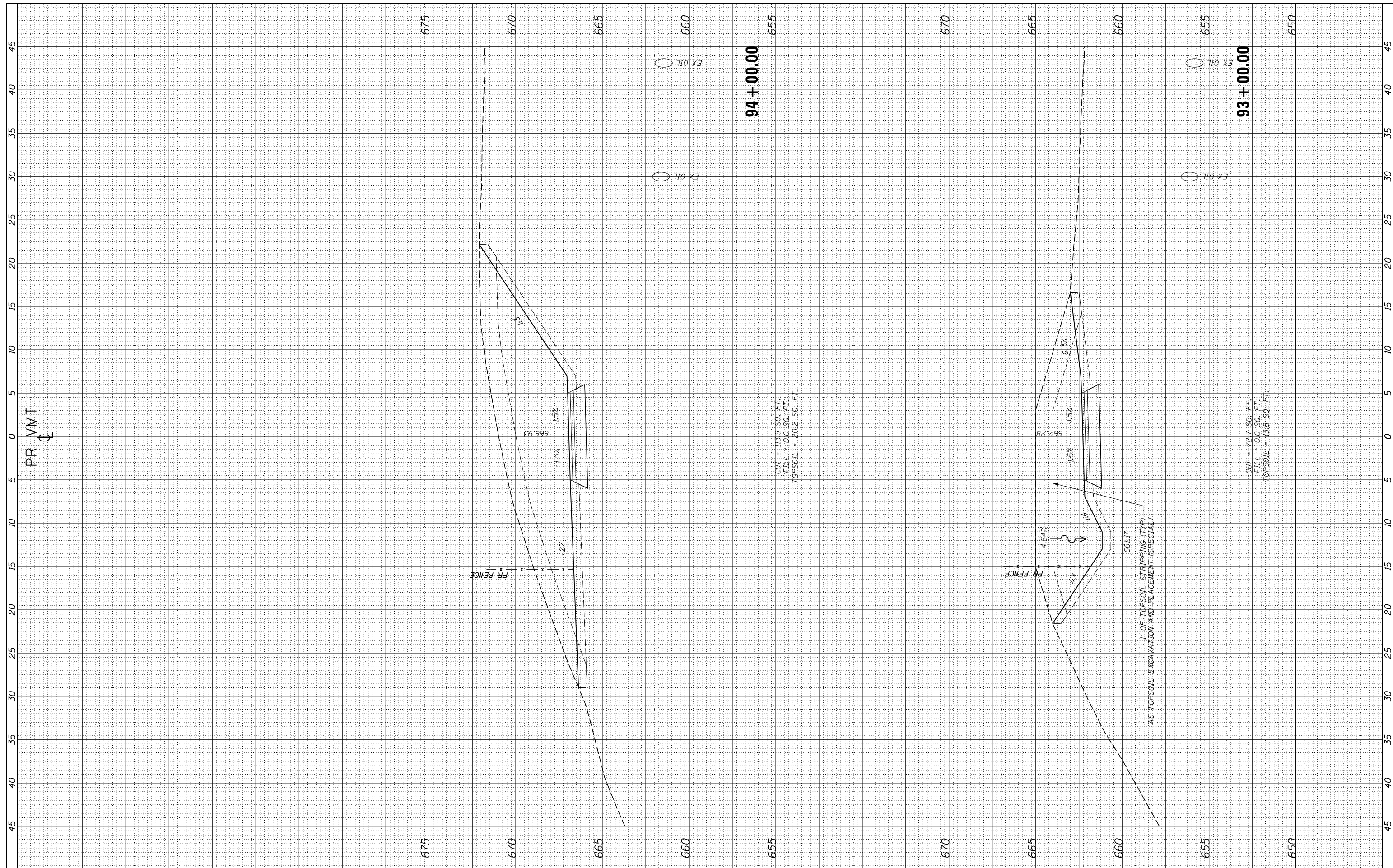
VETERANS MEMORIAL TRAIL
 CROSS SECTIONS

SCALE: 10H : 5V SHEET OF SHEETS STA. 90+17.63 TO STA. 92+00.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	11-F3001-00-BT	WILL	234	150
CONTRACT NO. 61674				
ILLINOIS FED. AID PROJECT				

FINAL SURVEY NO.	SURVEYED PLOTTED TEMPLATE AREAS CHECKED	BY	DATE

ORIGINAL SURVEY NO.	SURVEYED PLOTTED TEMPLATE AREAS CHECKED	BY	DATE



USER NAME = ken.moy
 PLOT SCALE = 10.0000' / in.
 PLOT DATE = 2/8/2021

DESIGNED - KLM
 DRAWN - KJB
 CHECKED - BMC
 DATE - 2/09/2021

REVISED -
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STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

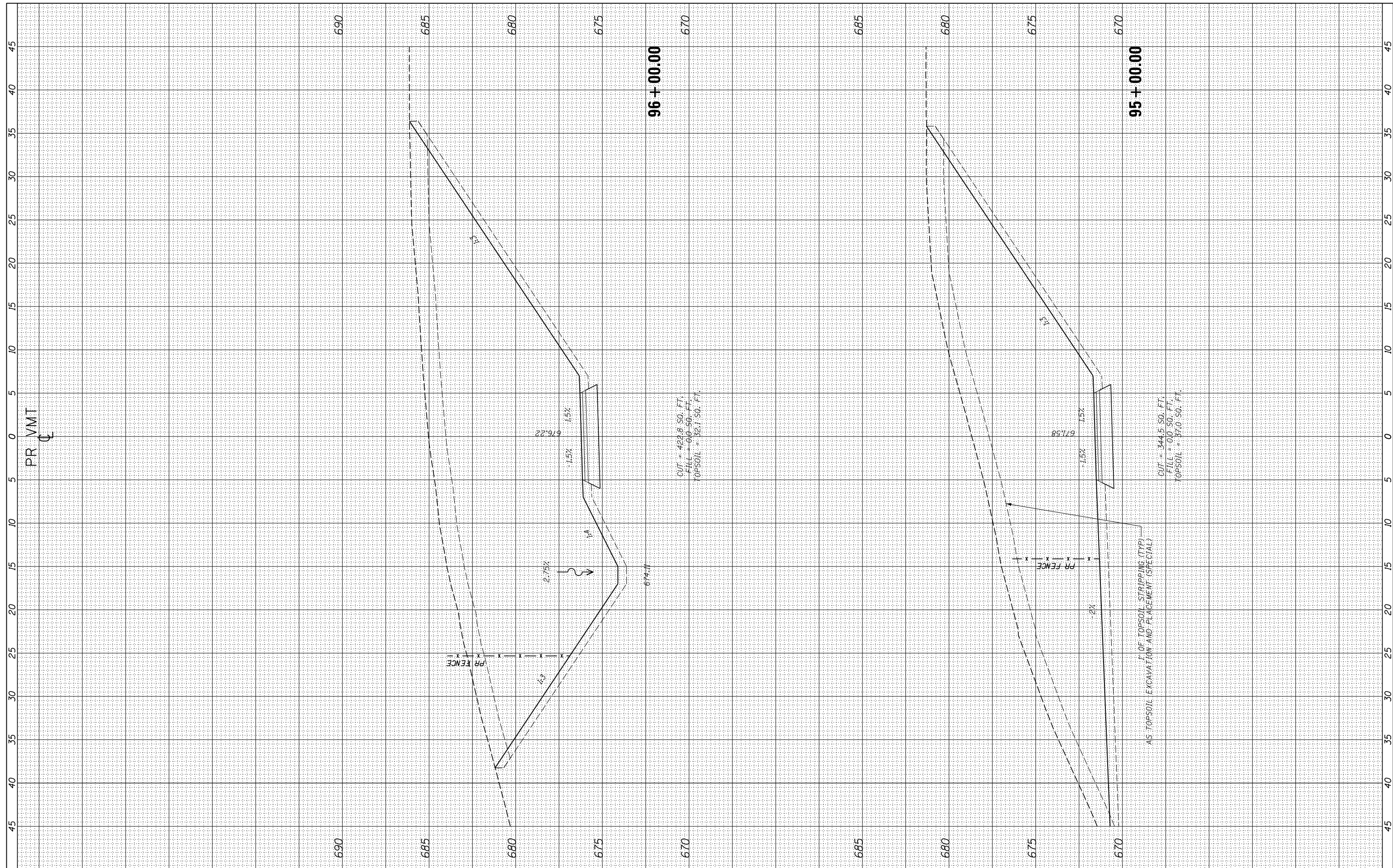
VETERANS MEMORIAL TRAIL
 CROSS SECTIONS

SCALE: 10H : 5V SHEET OF SHEETS STA. 93+00.00 TO STA. 94+00.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	11-F3001-00-BT	WILL	234	151
			CONTRACT NO. 61674	
ILLINOIS FED. AID PROJECT				

FINAL SURVEY NO.	SURVEYED PLOTTED AREAS CHECKED	BY	DATE

ORIGINAL SURVEY NO.	SURVEYED PLOTTED AREAS CHECKED	BY	DATE



USER NAME = ken.moy
 PLOT SCALE = 10.0000' / in.
 PLOT DATE = 2/8/2021

DESIGNED - KLM
 DRAWN - KJB
 CHECKED - BMC
 DATE - 2/09/2021

REVISED -
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STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

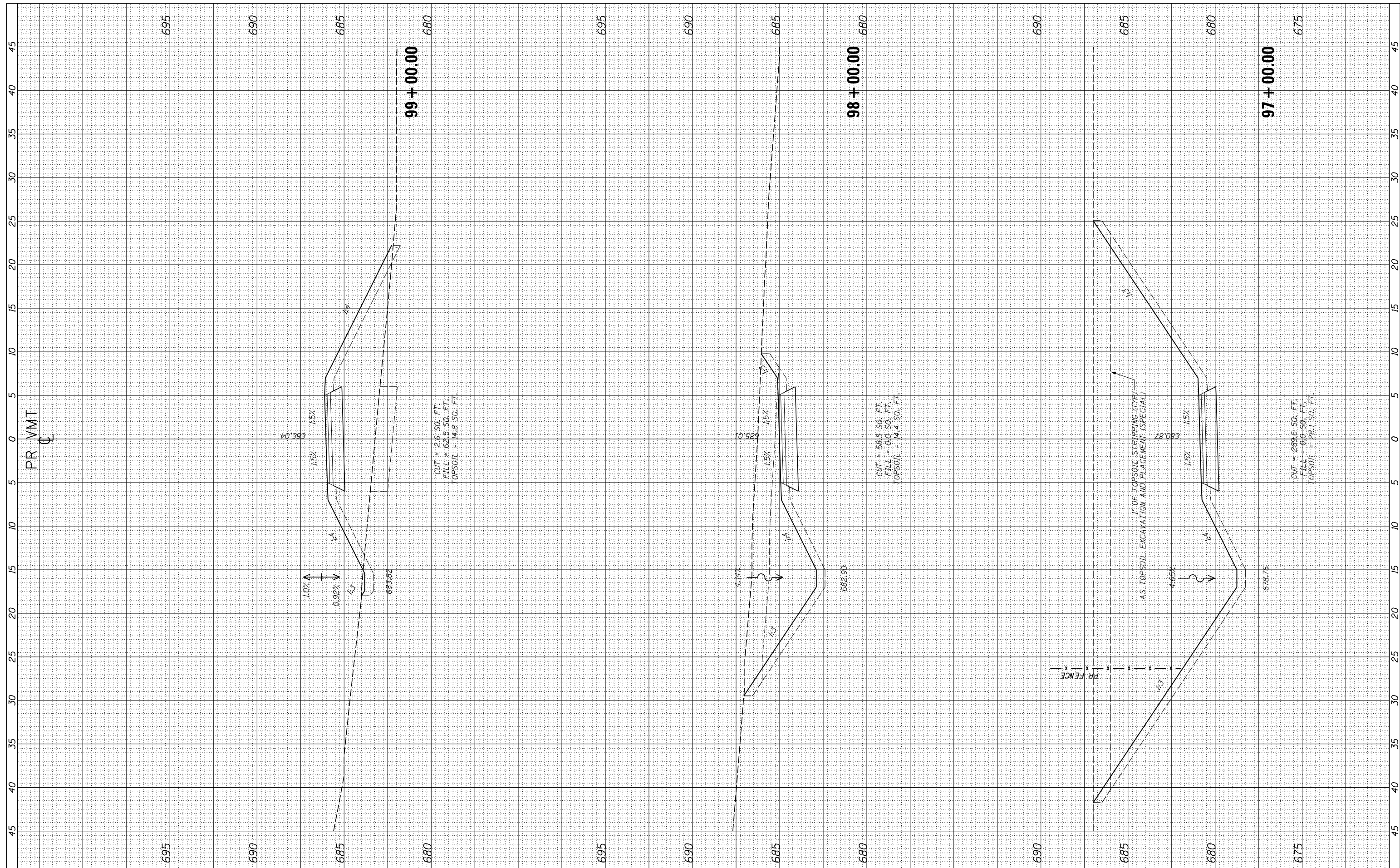
VETERANS MEMORIAL TRAIL
 CROSS SECTIONS

SCALE: 10H : 5V SHEET OF SHEETS STA. 95+00.00 TO STA. 96+00.00

F.A. RTÉ.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	11-F3001-00-BT	WILL	234	152
			CONTRACT NO. 61674	
ILLINOIS FED. AID PROJECT				

FINAL SURVEY NO.	SURVEYED PLOTTED	DATE
NOTE BOOK	TEMPLATE	
AREAS CHECKED	AREAS CHECKED	

ORIGINAL SURVEY NO.	SURVEYED PLOTTED	DATE
NOTE BOOK	TEMPLATE	
AREAS CHECKED	AREAS CHECKED	



USER NAME = ken.moy
 PLOT SCALE = 10.0000' / in.
 PLOT DATE = 2/8/2021

DESIGNED - KLM
 DRAWN - KJB
 CHECKED - BMC
 DATE - 2/09/2021

REVISED -
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 REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

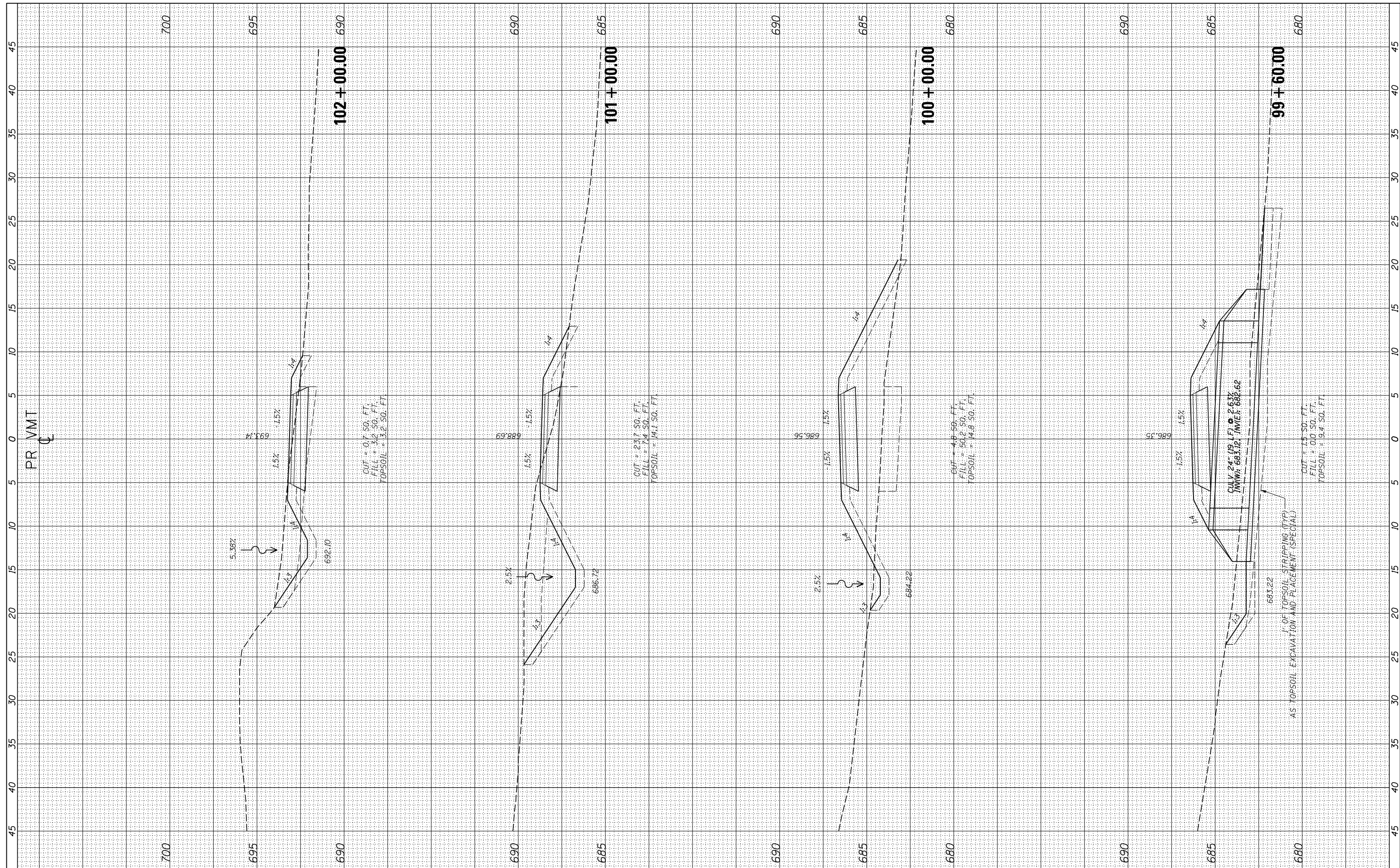
VETERANS MEMORIAL TRAIL
 CROSS SECTIONS

SCALE: 10H : 5V SHEET OF SHEETS STA. 97+00.00 TO STA. 99+00.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	11-F3001-00-BT	WILL	234	153
			CONTRACT NO. 61674	
ILLINOIS FED. AID PROJECT				

FINAL SURVEY NO.	SURVEYED PLOTTED TEMPLATE AREAS CHECKED	BY	DATE

ORIGINAL SURVEY NO.	SURVEYED PLOTTED TEMPLATE AREAS CHECKED	BY	DATE



USER NAME = ken.moy
 PLOT SCALE = 10.0000' / in.
 PLOT DATE = 2/8/2021

DESIGNED - KLM
 DRAWN - KJB
 CHECKED - BMC
 DATE - 2/09/2021

REVISED -
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STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

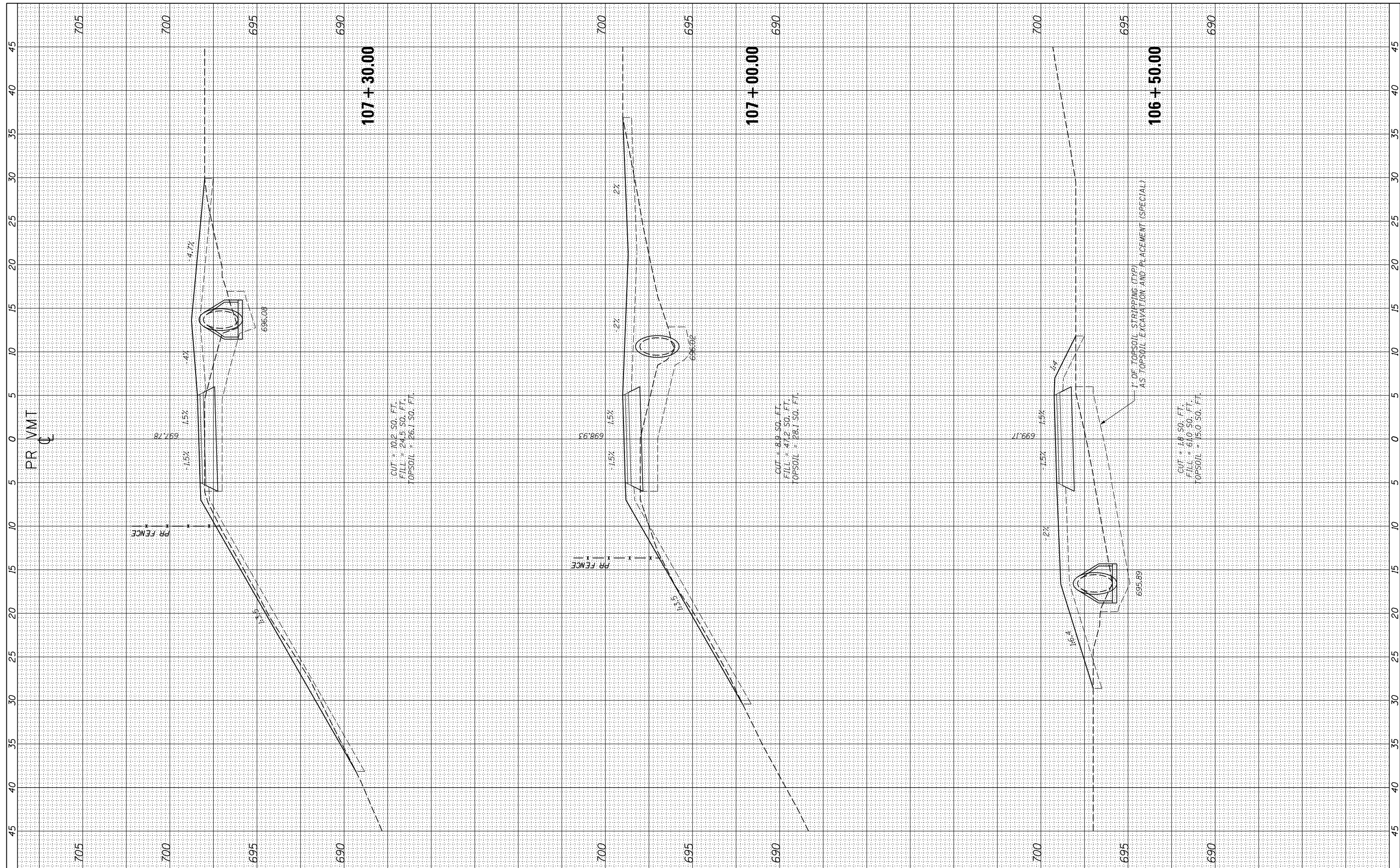
VETERANS MEMORIAL TRAIL
 CROSS SECTIONS

SCALE: 10H : 5V SHEET OF SHEETS STA. 99+60.00 TO STA. 102+00.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	11-F3001-00-BT	WILL	234	154
			CONTRACT NO. 61674	
ILLINOIS FED. AID PROJECT				

FINAL SURVEY NO.	SURVEYED PLOTTED TEMPLATE AREAS CHECKED	BY	DATE

ORIGINAL SURVEY NO.	SURVEYED PLOTTED TEMPLATE AREAS CHECKED	BY	DATE



CUT = 10.2 SQ. FT.
 FILL = 24.5 SQ. FT.
 TOPSOIL = 26.1 SQ. FT.

CUT = 8.9 SQ. FT.
 FILL = 47.2 SQ. FT.
 TOPSOIL = 28.1 SQ. FT.

CUT = 1.8 SQ. FT.
 FILL = 61.0 SQ. FT.
 TOPSOIL = 15.0 SQ. FT.

PR VMT

PR FENCE

PR FENCE

1" OF TOPSOIL STRIPPING (TYP.)
 AS TOPSOIL EXCAVATION AND PLACEMENT (SPECIAL)



USER NAME = ken.moy
 PLOT SCALE = 10.0000' / in.
 PLOT DATE = 2/8/2021

DESIGNED - KLM
 DRAWN - KJB
 CHECKED - BMC
 DATE - 2/09/2021

REVISED -
 REVISED -
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 REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

VETERANS MEMORIAL TRAIL
 CROSS SECTIONS

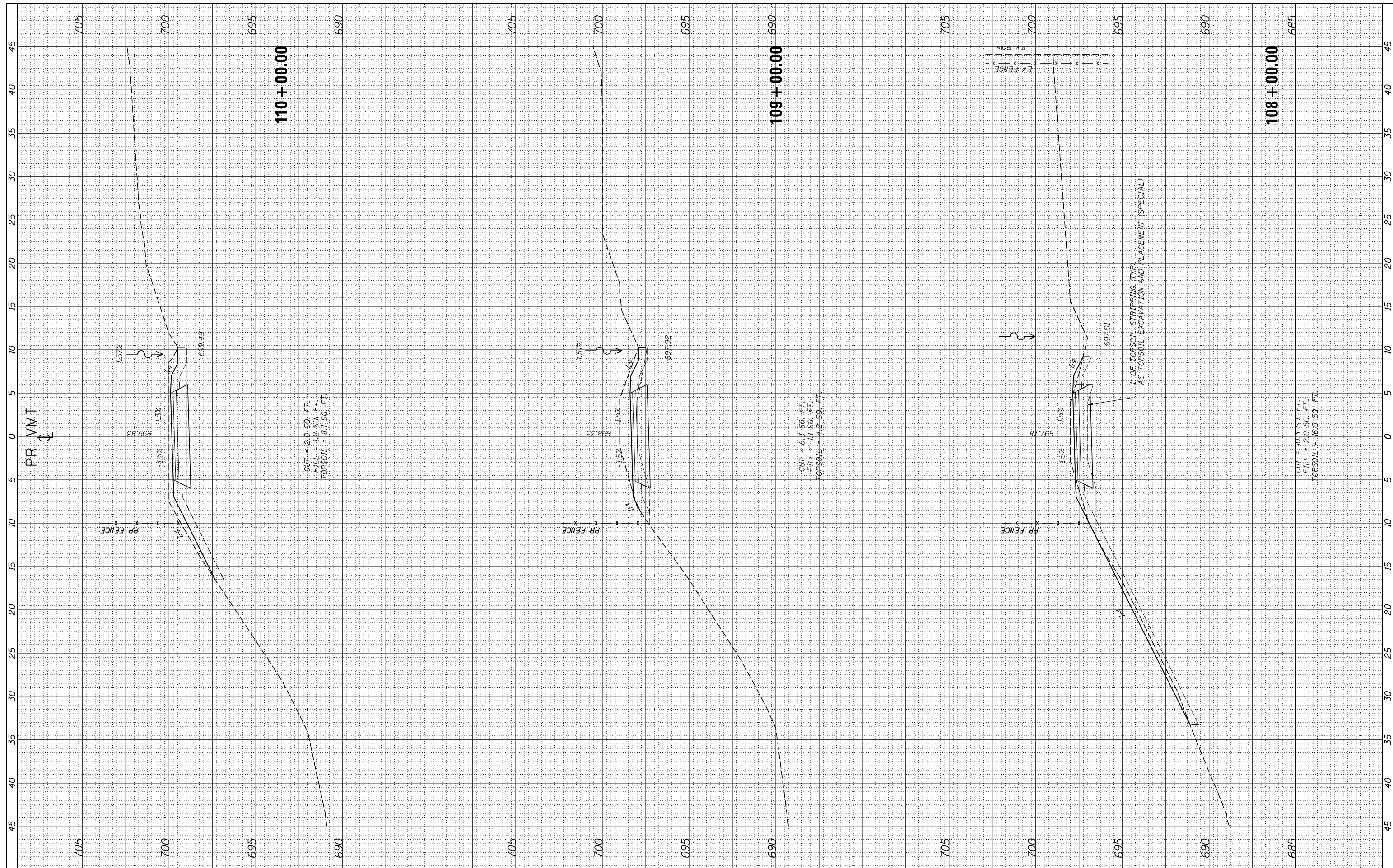
SCALE: 10H : 5V SHEET OF SHEETS STA. 106+50.00 TO STA. 107+30.00

F.A. RTÉ.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	11-F3001-00-BT	WILL	234	156
CONTRACT NO. 61674				

ILLINOIS FED. AID PROJECT

FINAL SURVEY	SURVEYED	BY	DATE
NO.	NO.		
NOTE BOOK	PLOTTED		
AREAS CHECKED	TEMPLATE		
	AREAS CHECKED		

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



USER NAME = ken.moy
 PLOT SCALE = 10.0000' / in.
 PLOT DATE = 2/8/2021

DESIGNED - KLM
 DRAWN - KJB
 CHECKED - BMC
 DATE - 2/09/2021

REVISED -
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STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

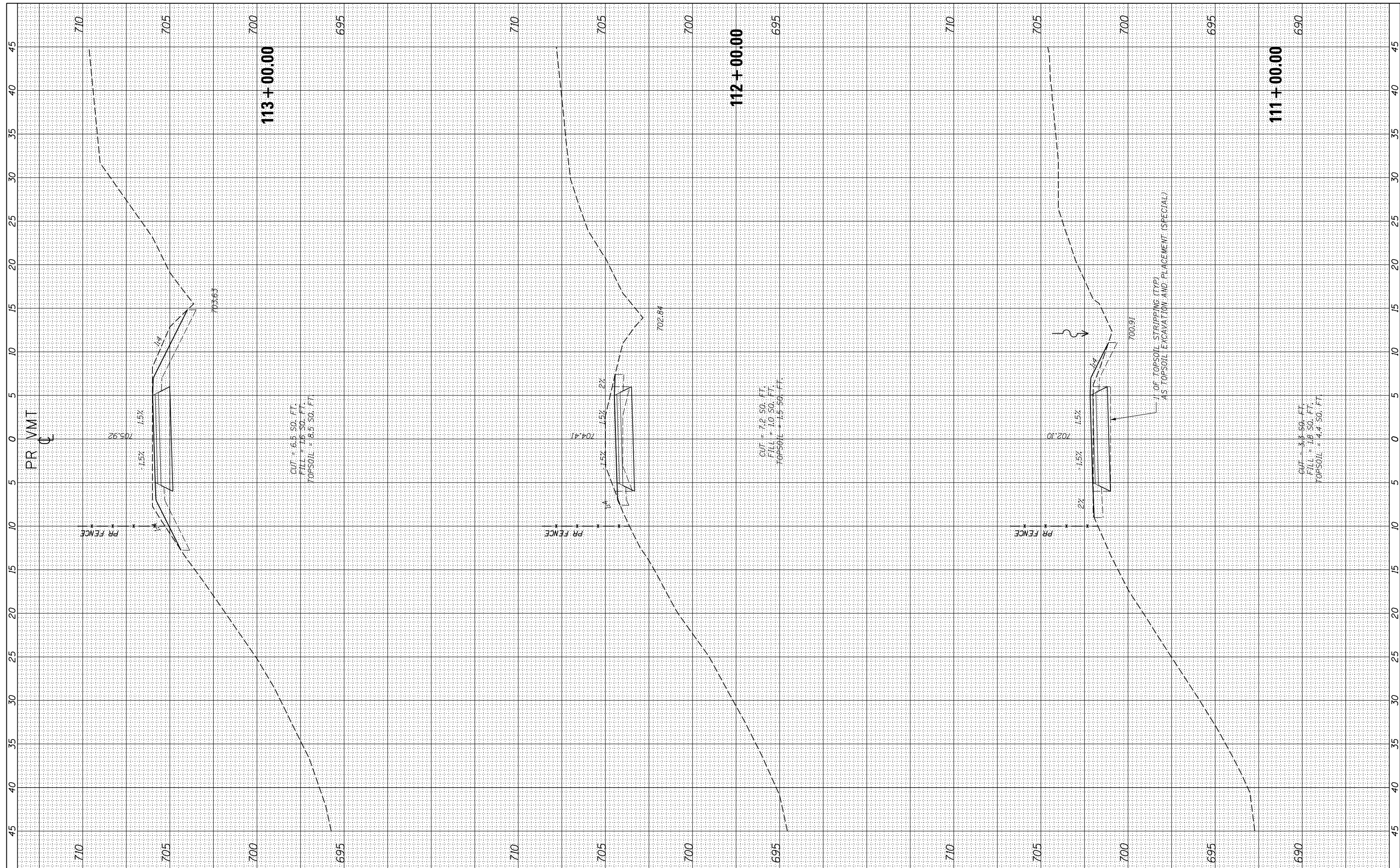
VETERANS MEMORIAL TRAIL
 CROSS SECTIONS

SCALE: 10H : 5V SHEET OF SHEETS STA. 108+00.00 TO STA. 110+00.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	11-F3001-00-BT	WILL	234	157
			CONTRACT NO. 61674	
ILLINOIS FED. AID PROJECT				

FINAL SURVEY	SURVEYED	BY	DATE
NO.	PLOTTED		
	TEMPLATE		
	AREAS CHECKED		

ORIGINAL SURVEY	SURVEYED	BY	DATE
NO.	PLOTTED		
	TEMPLATE		
	AREAS CHECKED		



USER NAME = ken.moy
 PLOT SCALE = 10.0000' / in.
 PLOT DATE = 2/8/2021

DESIGNED - KLM
 DRAWN - KJB
 CHECKED - BMC
 DATE - 2/09/2021

REVISED -
 REVISED -
 REVISED -
 REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

VETERANS MEMORIAL TRAIL
 CROSS SECTIONS

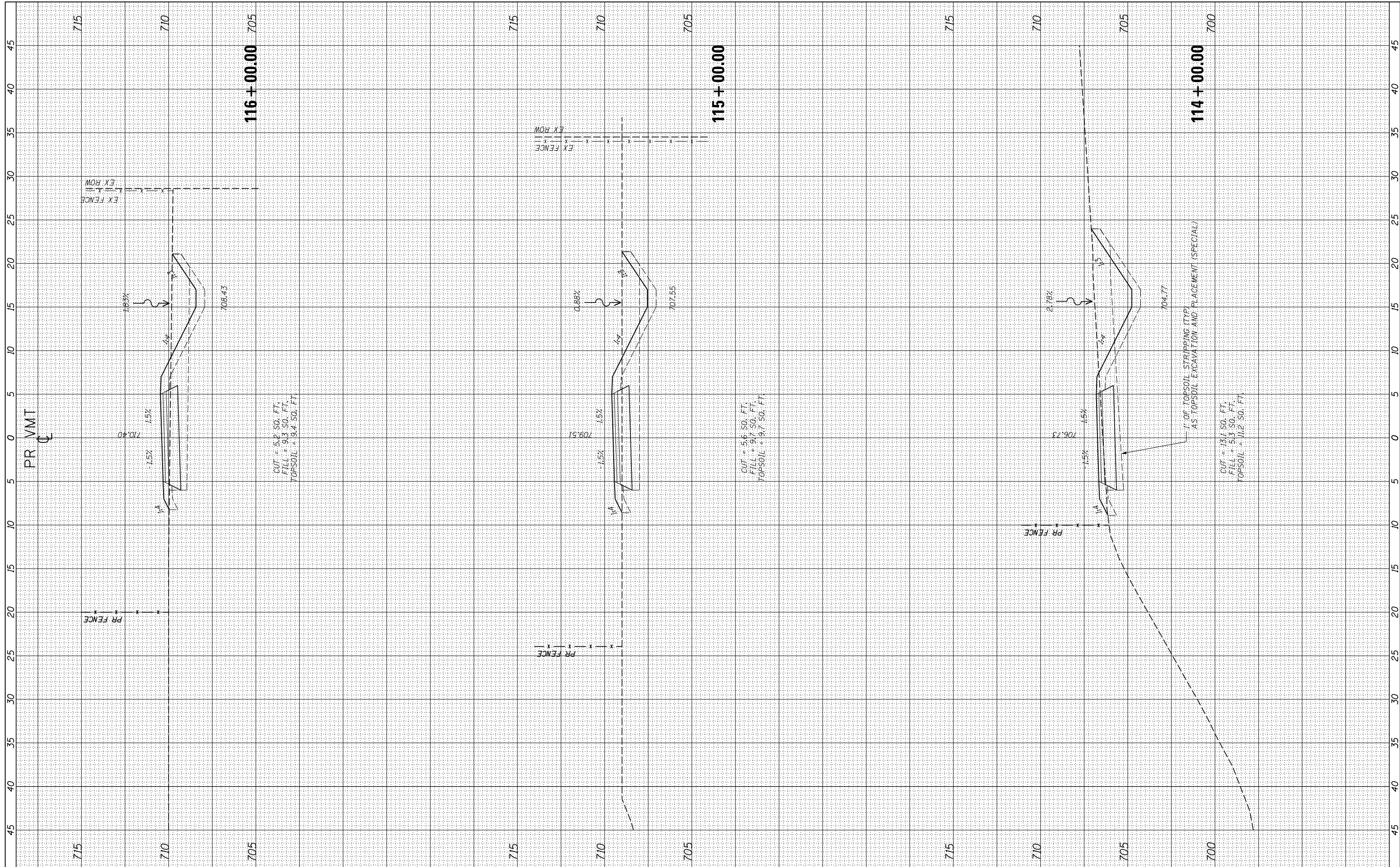
SCALE: 10H : 5V SHEET OF SHEETS STA. 111+00.00 TO STA. 113+00.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	11-F3001-00-BT	WILL	234	158
CONTRACT NO. 61674				

ILLINOIS FED. AID PROJECT

FINAL SURVEY	SURVEYED	BY	DATE
NO.	PLOTTED		
	TEMPLATE		
	AREAS CHECKED		

ORIGINAL SURVEY	SURVEYED	BY	DATE
NO.	PLOTTED		
	TEMPLATE		
	AREAS CHECKED		



USER NAME = ken.moy
 PLOT SCALE = 10.0000' / in.
 PLOT DATE = 2/8/2021

DESIGNED - KLM
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 CHECKED - BMC
 DATE - 2/09/2021

REVISED -
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STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

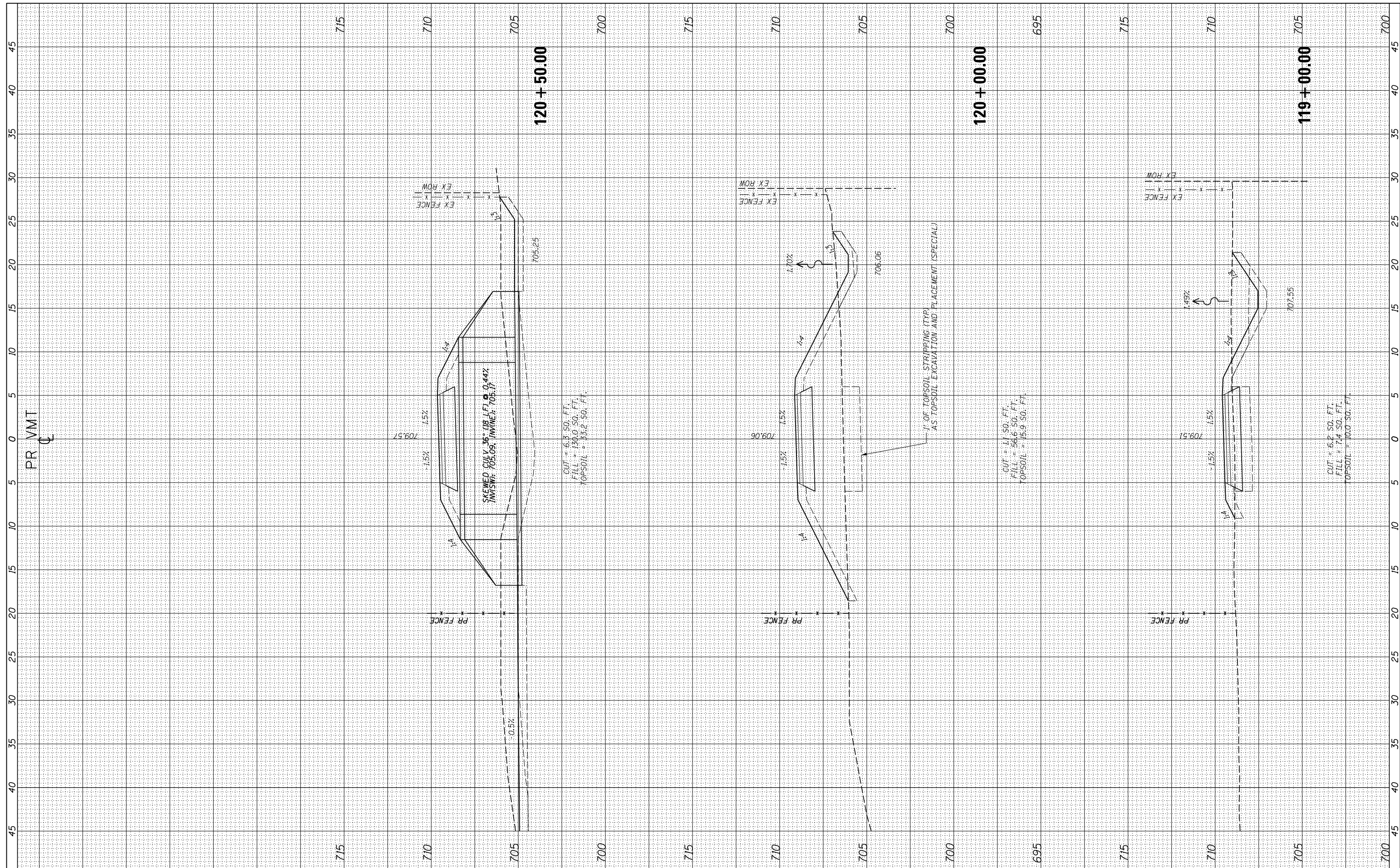
VETERANS MEMORIAL TRAIL
 CROSS SECTIONS

SCALE: 10H : 5V SHEET OF SHEETS STA. 114+00.00 TO STA. 116+00.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	11-F3001-00-BT	WILL	234	159
			CONTRACT NO. 61674	
ILLINOIS FED. AID PROJECT				

FINAL SURVEY NO.	SURVEYED PLOTTED TEMPLATE AREAS CHECKED	BY	DATE

ORIGINAL SURVEY NO.	SURVEYED PLOTTED TEMPLATE AREAS CHECKED	BY	DATE



USER NAME = ken.moy
 PLOT SCALE = 10.0000' / in.
 PLOT DATE = 2/8/2021

DESIGNED - KLM
 DRAWN - KJB
 CHECKED - BMC
 DATE - 2/09/2021

REVISED -
 REVISED -
 REVISED -
 REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

VETERANS MEMORIAL TRAIL
 CROSS SECTIONS

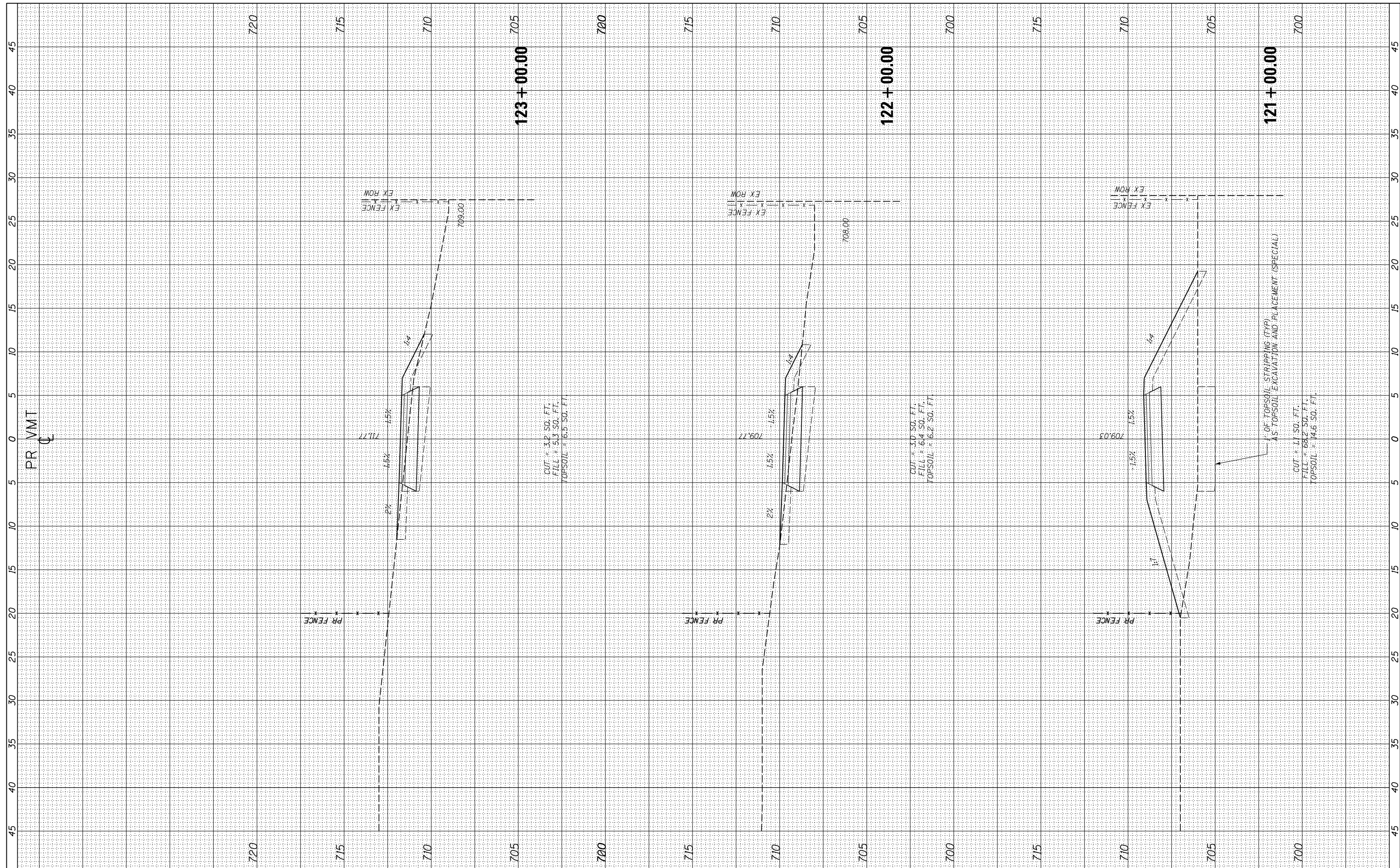
SCALE: 10H : 5V SHEET OF SHEETS STA. 119+00.00 TO STA. 120+50.00

F.A. RTÉ.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	11-F3001-00-BT	WILL	234	161
			CONTRACT NO. 61674	

ILLINOIS FED. AID PROJECT

FINAL SURVEY NO.	SURVEYED PLOTTED TEMPLATE AREAS CHECKED	BY	DATE

ORIGINAL SURVEY NO.	SURVEYED PLOTTED TEMPLATE AREAS CHECKED	BY	DATE



USER NAME = ken.moy
 PLOT SCALE = 10.0000' / in.
 PLOT DATE = 2/8/2021

DESIGNED - KLM
 DRAWN - KJB
 CHECKED - BMC
 DATE - 2/09/2021

REVISED -
 REVISED -
 REVISED -
 REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

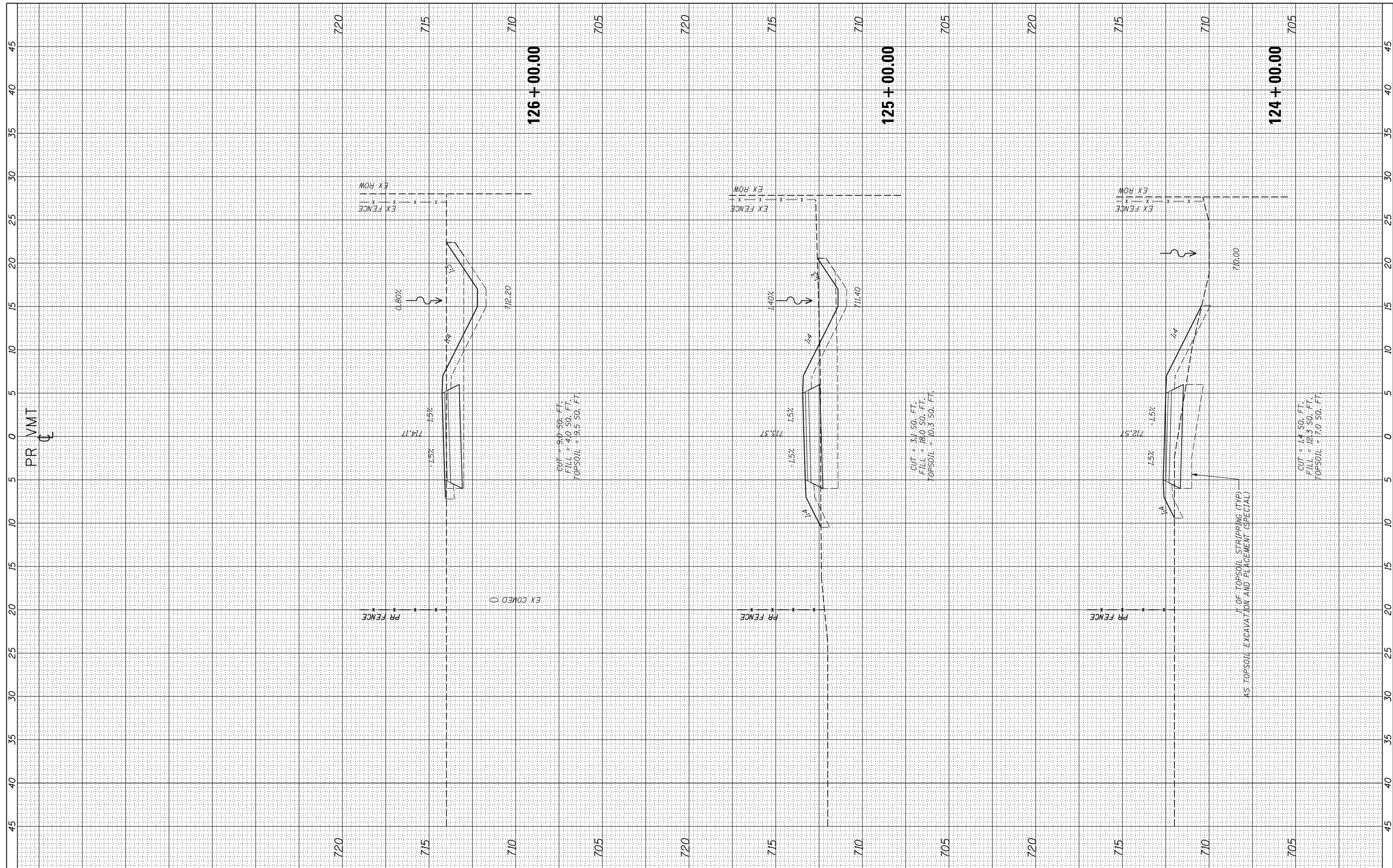
VETERANS MEMORIAL TRAIL
 CROSS SECTIONS

SCALE: 10H : 5V SHEET OF SHEETS STA. 121+00.00 TO STA. 123+00.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	11-F3001-00-BT	WILL	234	162
ILLINOIS FED. AID PROJECT			CONTRACT NO. 61674	

FINAL SURVEY NO.	SURVEYED PLOTTED TEMPLATE AREAS CHECKED	BY	DATE

ORIGINAL SURVEY NO.	SURVEYED PLOTTED TEMPLATE AREAS CHECKED	BY	DATE



USER NAME = ken.moy
 PLOT SCALE = 10.0000' / in.
 PLOT DATE = 2/8/2021

DESIGNED - KLM
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 CHECKED - BMC
 DATE - 2/09/2021

REVISED -
 REVISED -
 REVISED -
 REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

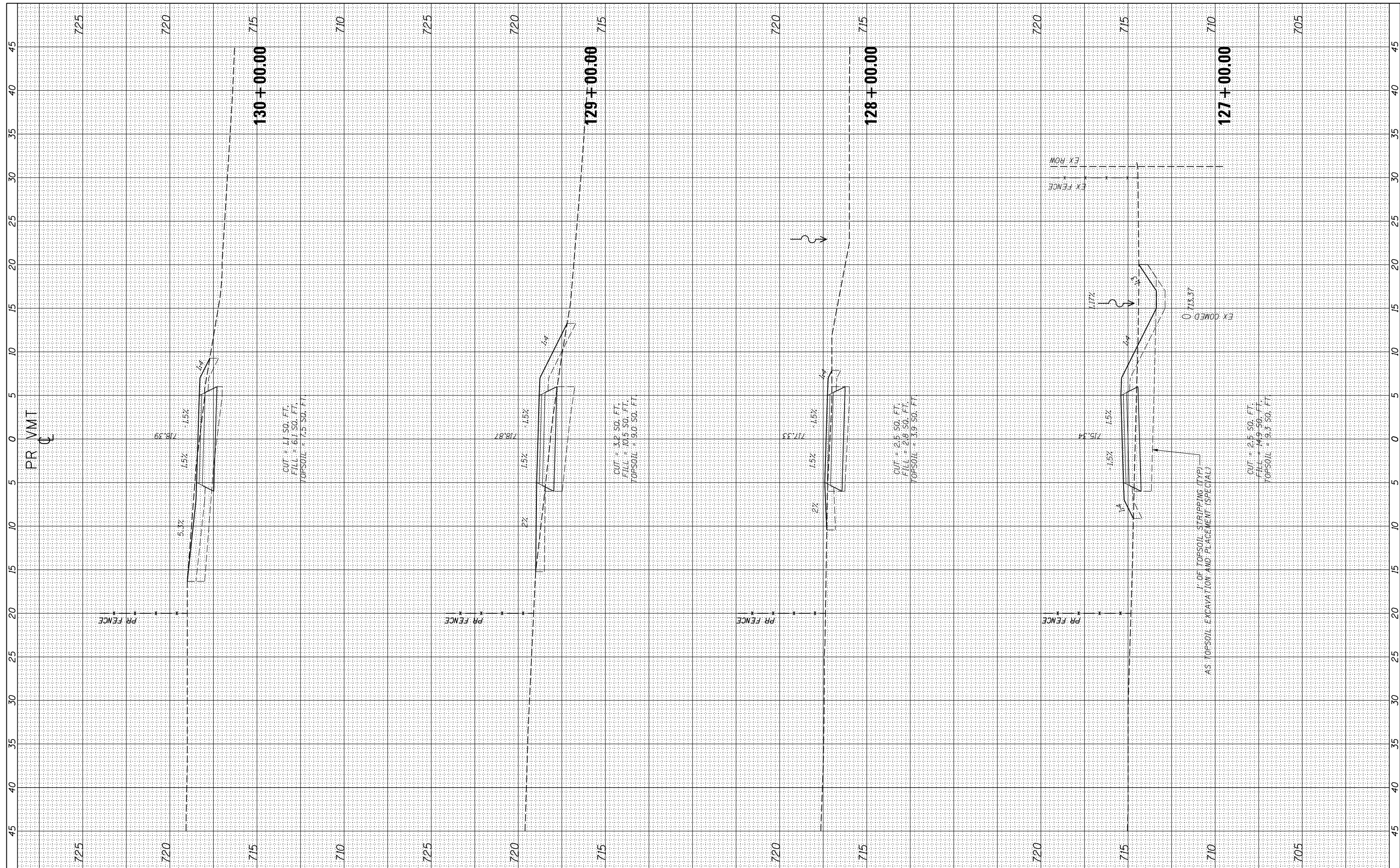
VETERANS MEMORIAL TRAIL
 CROSS SECTIONS

SCALE: 10H : 5V SHEET OF SHEETS STA. 124+00.00 TO STA. 126+00.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	11-F3001-00-BT	WILL	234	163
			CONTRACT NO. 61674	
ILLINOIS FED. AID PROJECT				

FINAL SURVEY NO.	SURVEYED PLOTTED AREAS CHECKED	BY	DATE

ORIGINAL SURVEY NO.	SURVEYED PLOTTED AREAS CHECKED	BY	DATE



USER NAME = ken.moy
 PLOT SCALE = 10.0000' / in.
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REVISED -
 REVISED -
 REVISED -
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STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

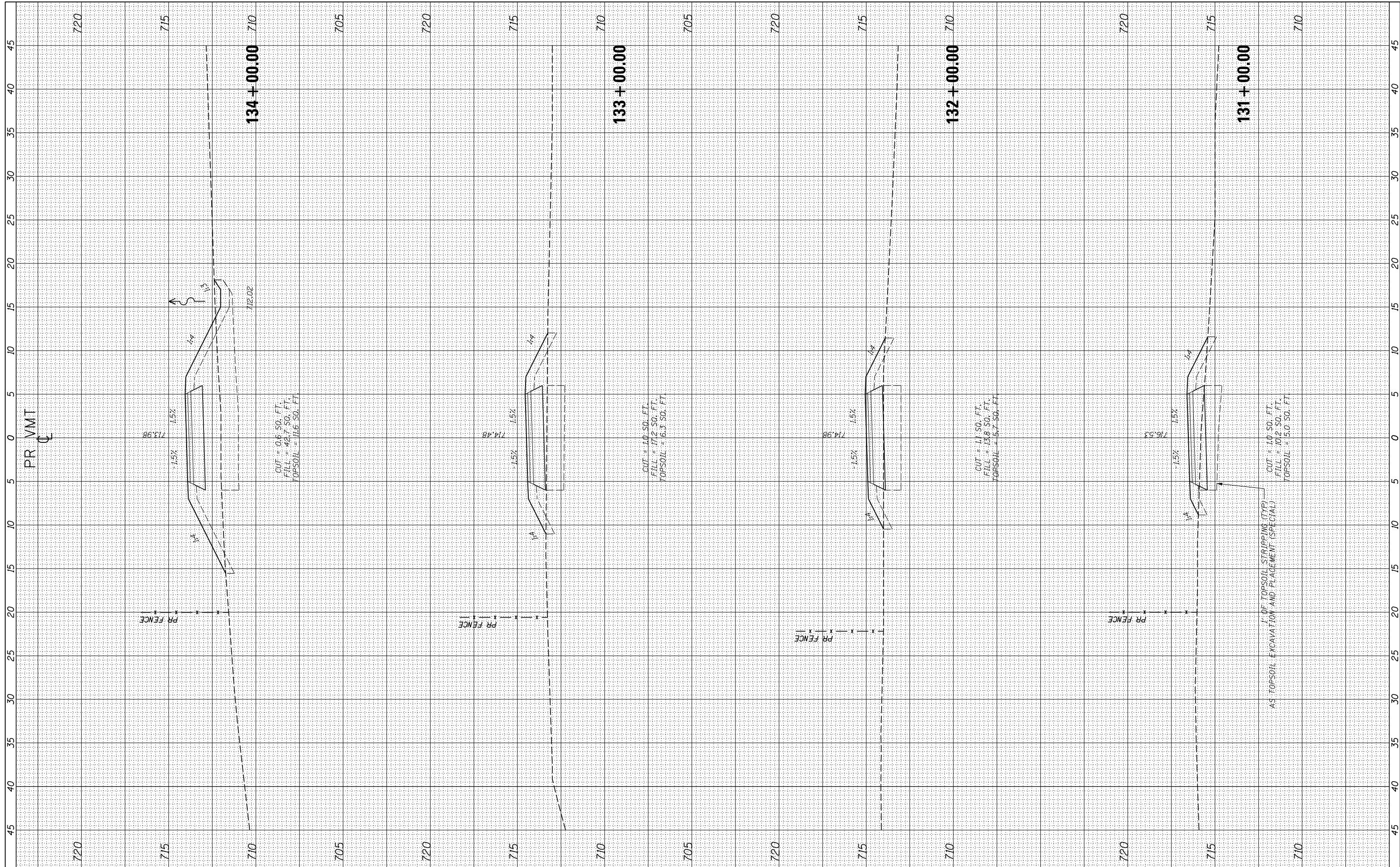
VETERANS MEMORIAL TRAIL
 CROSS SECTIONS

SCALE: 10H : 5V SHEET OF SHEETS STA. 127+00.00 TO STA. 130+00.00

F.A. RTÉ.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	11-F3001-00-BT	WILL	234	164
			CONTRACT NO. 61674	
ILLINOIS FED. AID PROJECT				

FINAL SURVEY	SURVEYED	DATE
NO.	PLOTTED	
	TEMPLATE	
	AREAS	
	CHECKED	

ORIGINAL SURVEY	SURVEYED	DATE
NO.	PLOTTED	
	TEMPLATE	
	AREAS	
	CHECKED	



USER NAME = ken.moy
 PLOT SCALE = 10.0000' / in.
 PLOT DATE = 2/8/2021

DESIGNED - KLM
 DRAWN - KJB
 CHECKED - BMC
 DATE - 2/09/2021

REVISED -
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 REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

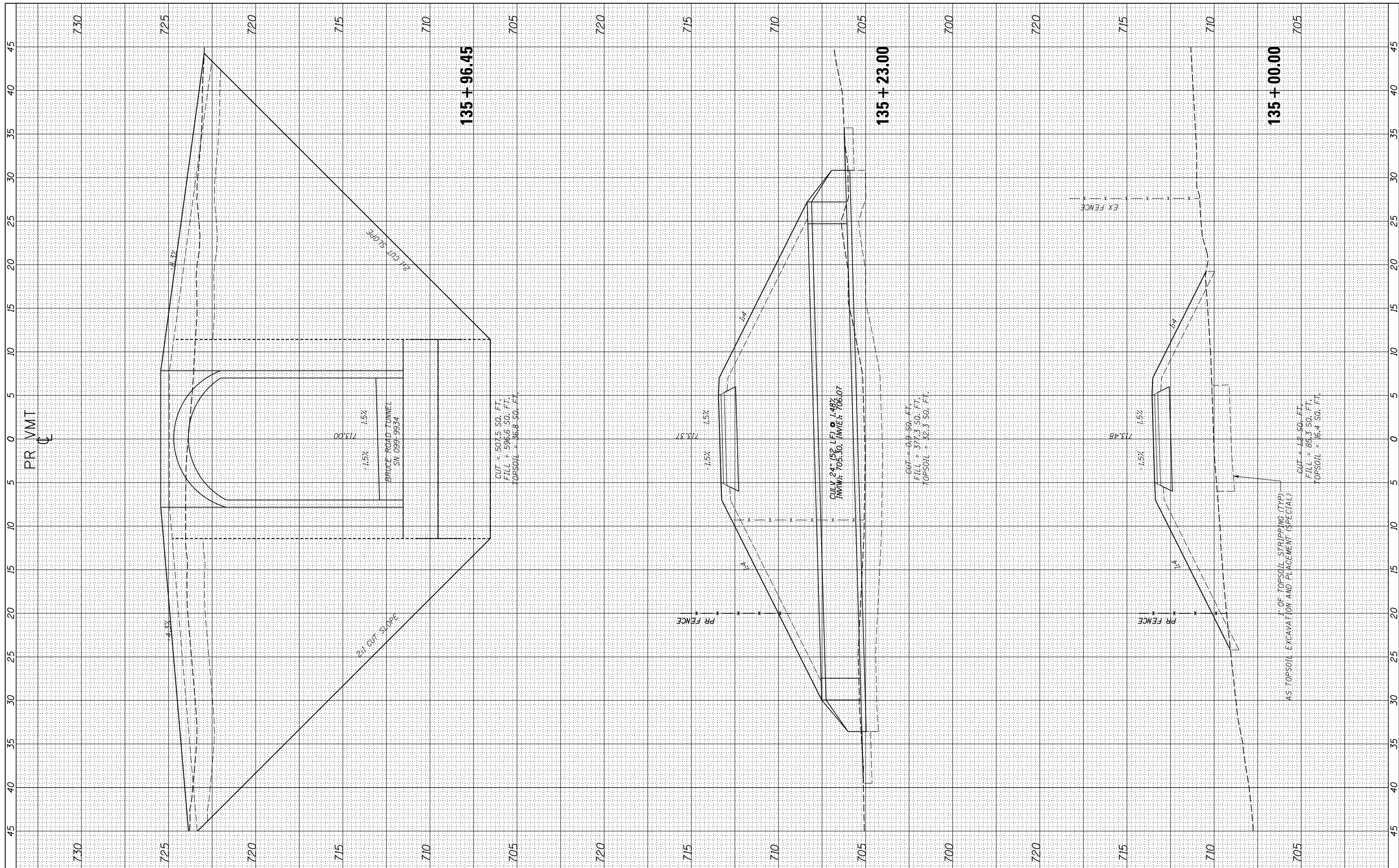
VETERANS MEMORIAL TRAIL
 CROSS SECTIONS

SCALE: 10H : 5V SHEET OF SHEETS STA. 131+00.00 TO STA. 134+00.00

F.A. RTÉ.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	11-F3001-00-BT	WILL	234	165
			CONTRACT NO. 61674	
ILLINOIS FED. AID PROJECT				

FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
NO.	TEMPLATE		
	AREAS		
	CHECKED		

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



USER NAME = ken.moy
 PLOT SCALE = 10.0000' / in.
 PLOT DATE = 2/8/2021

DESIGNED - KLM
 DRAWN - KJB
 CHECKED - BMC
 DATE - 2/09/2021

REVISED -
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STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

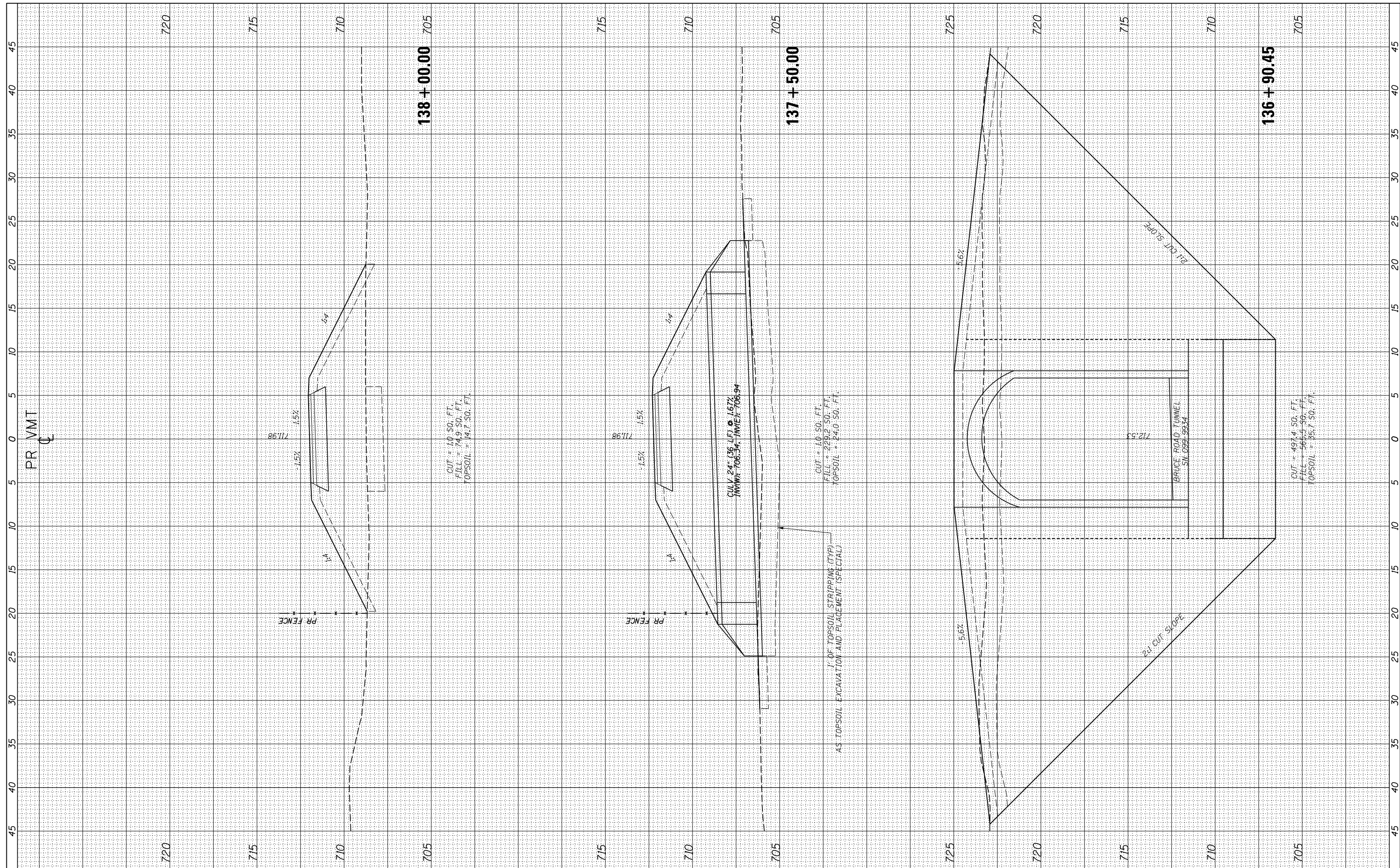
VETERANS MEMORIAL TRAIL
 CROSS SECTIONS

SCALE: 10H : 5V SHEET OF SHEETS STA. 135+00.00 TO STA. 135+96.45

F.A. RTÉ.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	11-F3001-00-BT	WILL	234	166
			CONTRACT NO. 61674	
ILLINOIS FED. AID PROJECT				

FINAL SURVEY NO.	SURVEYED	DATE
NOTE BOOK	PLOTTED	
AREAS CHECKED	TEMPLATE	
	AREAS	
	CHECKED	

ORIGINAL SURVEY NO.	SURVEYED	DATE
NOTE BOOK	PLOTTED	
AREAS CHECKED	TEMPLATE	
	AREAS	
	CHECKED	



USER NAME = ken.moy
 PLOT SCALE = 10.0000" / 1"
 PLOT DATE = 2/8/2021

DESIGNED - KLM
 DRAWN - KJB
 CHECKED - BMC
 DATE - 2/09/2021

REVISED -
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STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

VETERANS MEMORIAL TRAIL
 CROSS SECTIONS

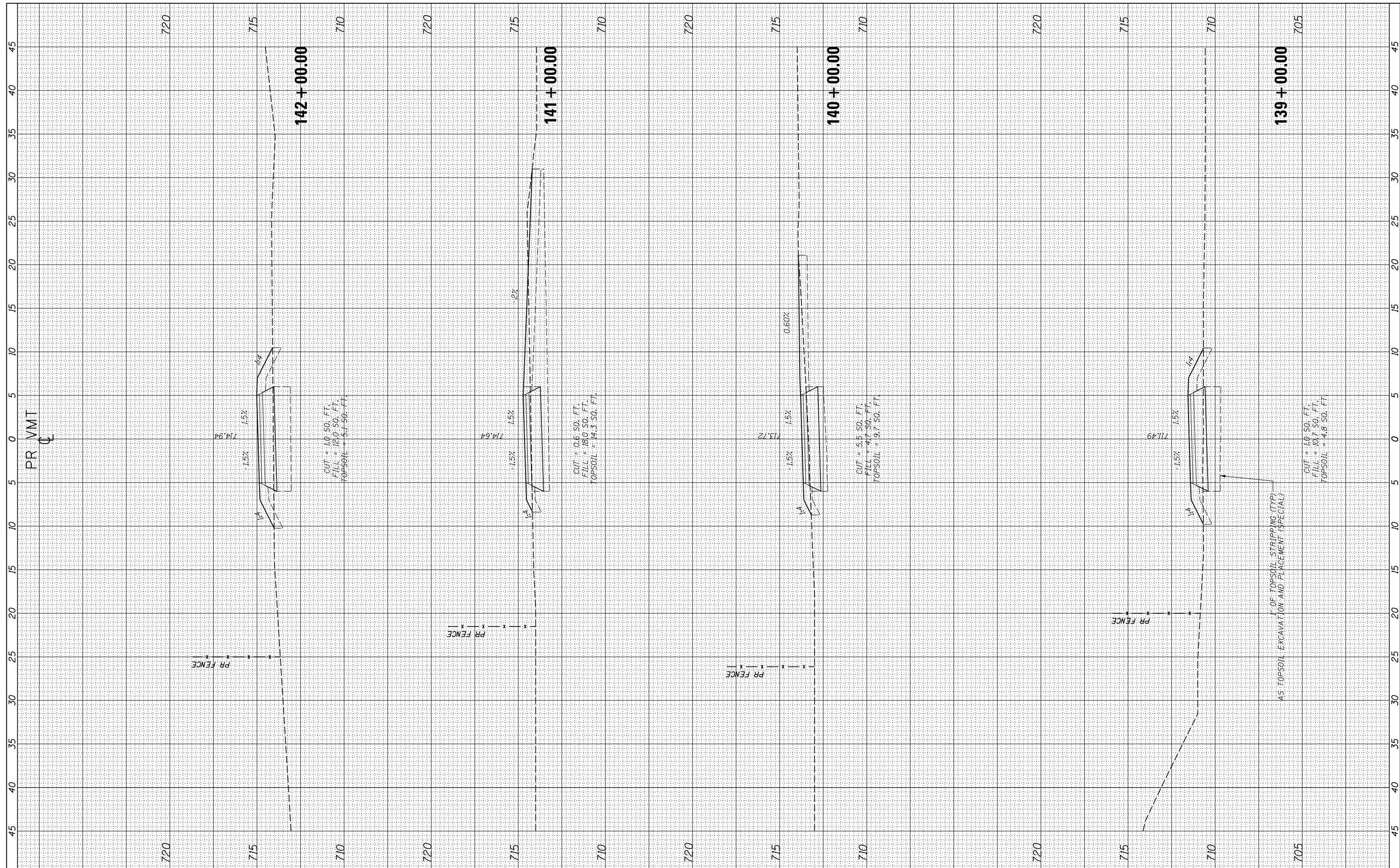
SCALE: 10H : 5V SHEET OF SHEETS STA. 136+90.45 TO STA. 138+00.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	11-F3001-00-BT	WILL	234	168
			CONTRACT NO. 61674	

ILLINOIS FED. AID PROJECT

FINAL SURVEY NO.	SURVEYED PLOTTED TEMPLATE AREAS CHECKED	BY	DATE

ORIGINAL SURVEY NO.	SURVEYED PLOTTED TEMPLATE AREAS CHECKED	BY	DATE



USER NAME = ken.moy
 PLOT SCALE = 10.0000' / in.
 PLOT DATE = 2/8/2021

DESIGNED - KLM
 DRAWN - KJB
 CHECKED - BMC
 DATE - 2/09/2021

REVISED -
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STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

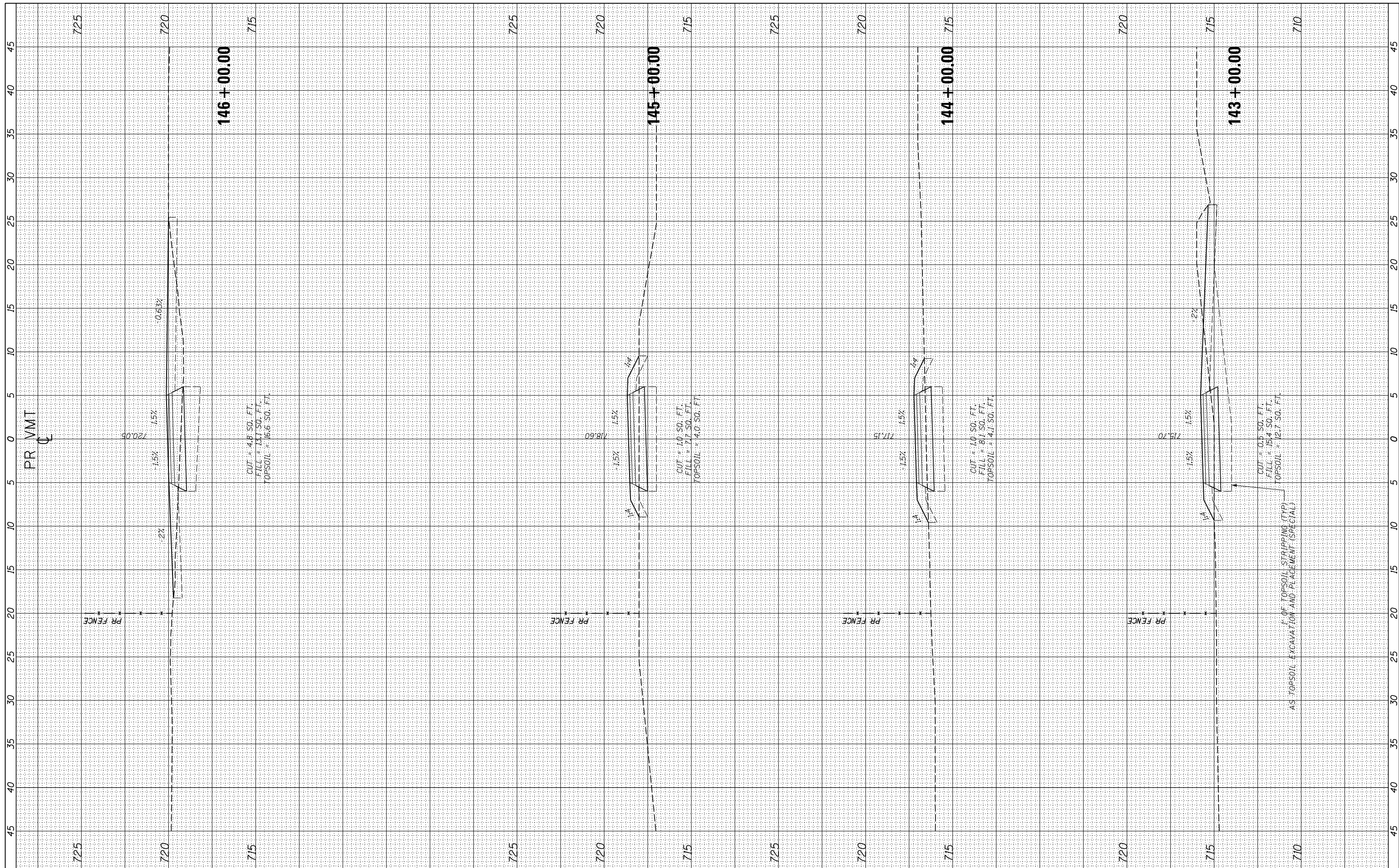
VETERANS MEMORIAL TRAIL
 CROSS SECTIONS

SCALE: 10H : 5V SHEET OF SHEETS STA. 139+00.00 TO STA. 142+00.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	11-F3001-00-BT	WILL	234	169
			CONTRACT NO. 61674	
ILLINOIS FED. AID PROJECT				

FINAL SURVEY NO.	SURVEYED PLOTTED TEMPLATE AREAS CHECKED	BY	DATE

ORIGINAL SURVEY NO.	SURVEYED PLOTTED TEMPLATE AREAS CHECKED	BY	DATE



USER NAME = ken.moy
 PLOT SCALE = 10.0000' / in.
 PLOT DATE = 2/8/2021

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 CHECKED - BMC
 DATE - 2/09/2021

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 REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

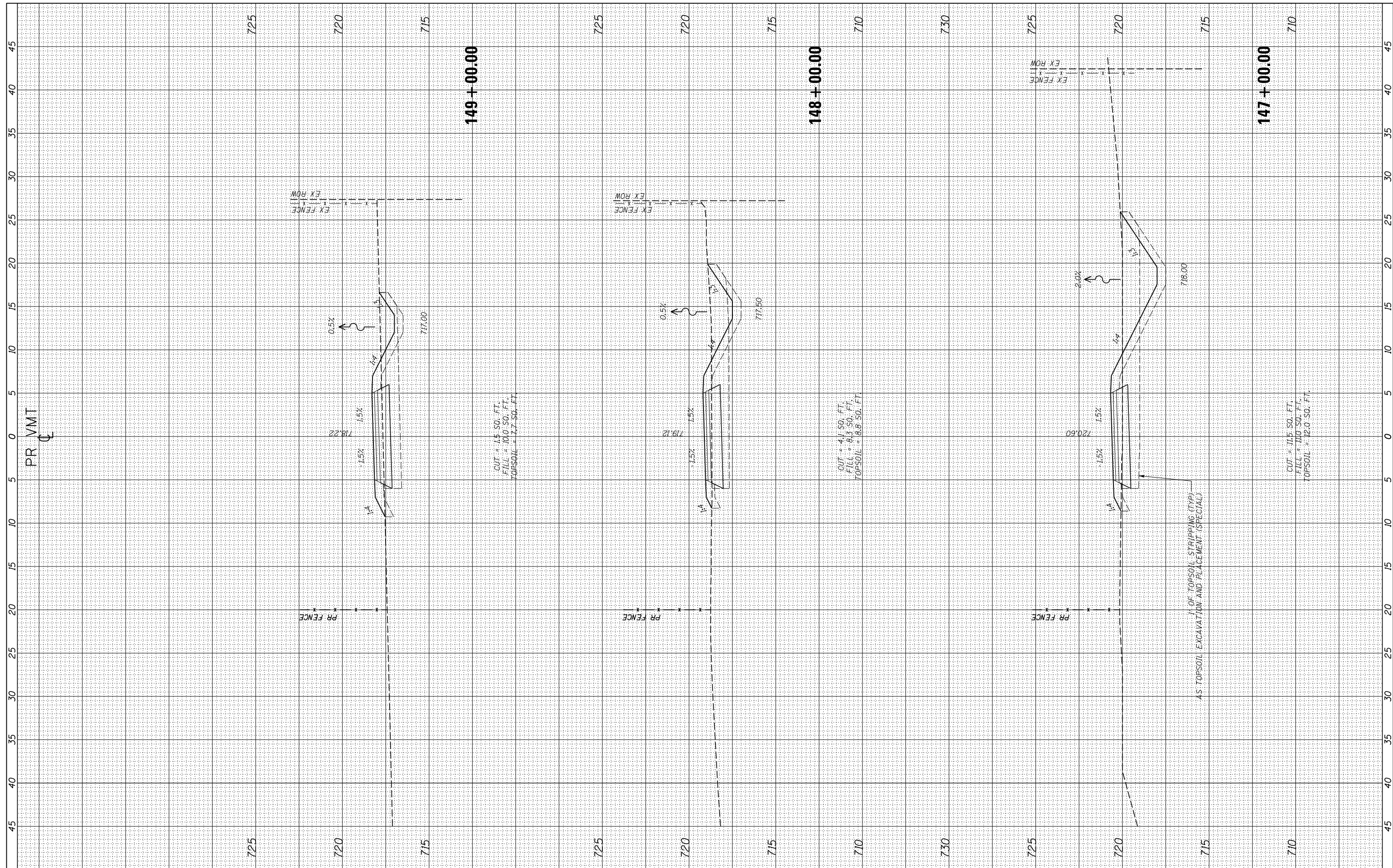
VETERANS MEMORIAL TRAIL
 CROSS SECTIONS

SCALE: 10H : 5V SHEET OF SHEETS STA. 143+00.00 TO STA. 146+00.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	11-F3001-00-BT	WILL	234	170
			CONTRACT NO. 61674	
ILLINOIS FED. AID PROJECT				

FINAL SURVEY NO.	SURVEYED PLOTTED TEMPLATE AREAS CHECKED	BY	DATE

ORIGINAL SURVEY NO.	SURVEYED PLOTTED TEMPLATE AREAS CHECKED	BY	DATE



USER NAME = ken.moy
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STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

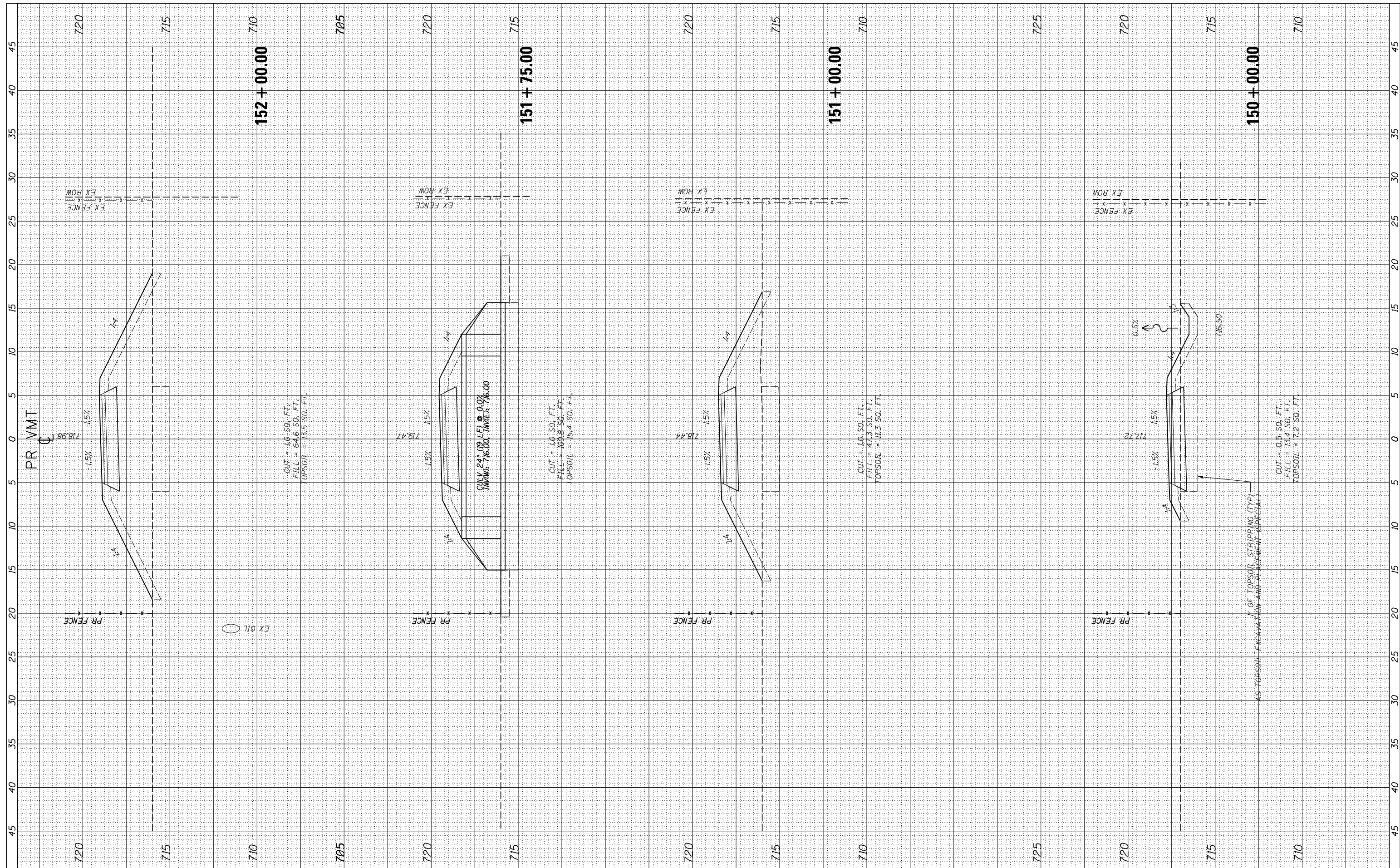
VETERANS MEMORIAL TRAIL
 CROSS SECTIONS

SCALE: 10H : 5V SHEET OF SHEETS STA. 147+00.00 TO STA. 149+00.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	11-F3001-00-BT	WILL	234	171
			CONTRACT NO. 61674	
ILLINOIS FED. AID PROJECT				

FINAL SURVEY NO.	SURVEYED PLOTTED TEMPLATE AREAS CHECKED	BY	DATE

ORIGINAL SURVEY NO.	SURVEYED PLOTTED TEMPLATE AREAS CHECKED	BY	DATE



USER NAME = ken.moy
 PLOT SCALE = 10.0000' / in.
 PLOT DATE = 2/8/2021

DESIGNED - KLM
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REVISED -
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STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

VETERANS MEMORIAL TRAIL
 CROSS SECTIONS

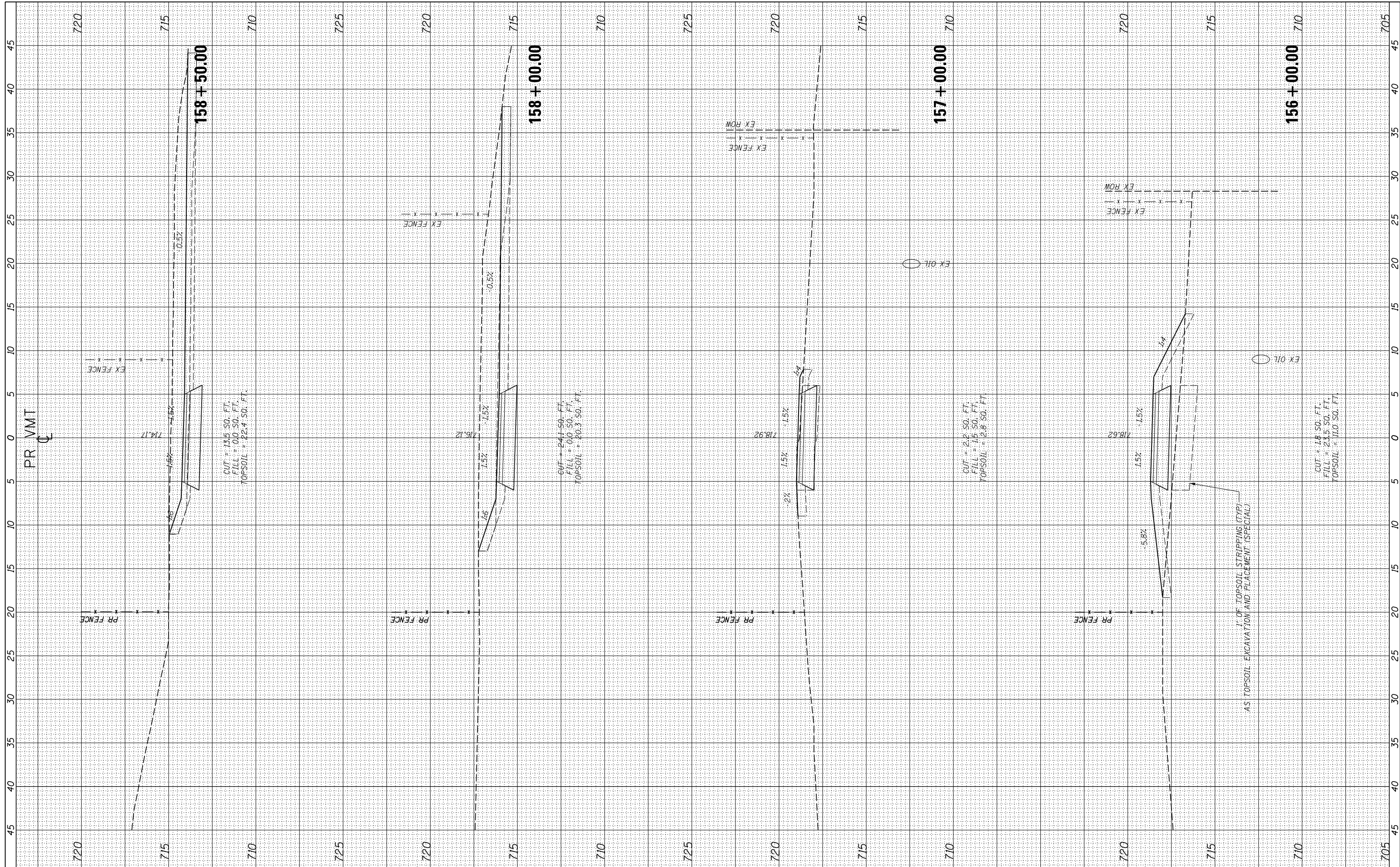
SCALE: 10H : 5V SHEET OF SHEETS STA. 150+00.00 TO STA. 152+00.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	11-F3001-00-BT	WILL	234	172
			CONTRACT NO. 61674	

ILLINOIS FED. AID PROJECT

FINAL SURVEY NO.	SURVEYED PLOTTED TEMPLATE AREAS CHECKED	BY	DATE

ORIGINAL SURVEY NO.	SURVEYED PLOTTED TEMPLATE AREAS CHECKED	BY	DATE



USER NAME = ken.moy
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STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

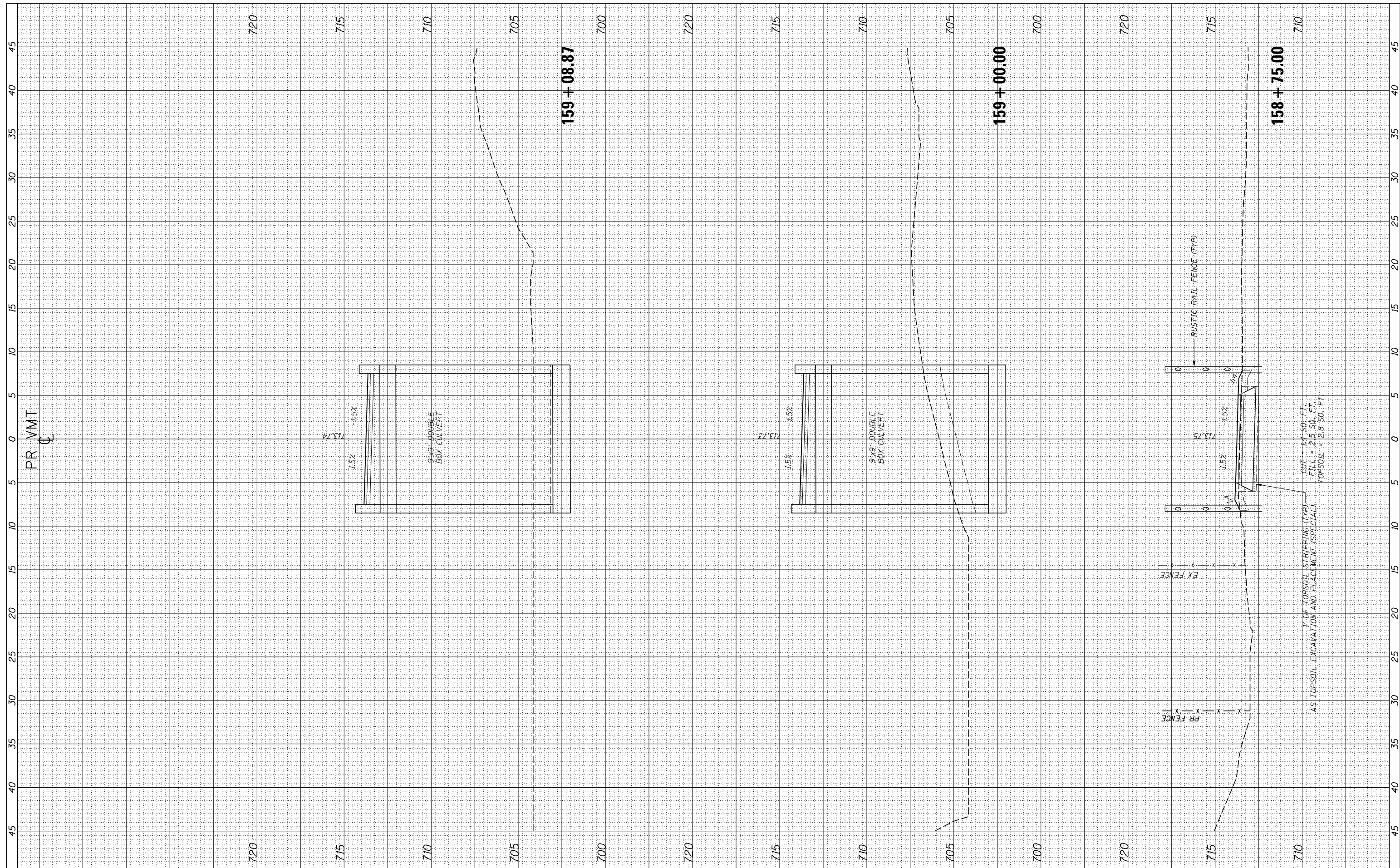
VETERANS MEMORIAL TRAIL
 CROSS SECTIONS

SCALE: 10H : 5V SHEET OF SHEETS STA. 156+00.00 TO STA. 158+50.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	11-F3001-00-BT	WILL	234	174
			CONTRACT NO. 61674	
ILLINOIS FED. AID PROJECT				

FINAL SURVEY NO.	SURVEYED PLOTTED TEMPLATE AREAS CHECKED	BY	DATE

ORIGINAL SURVEY NO.	SURVEYED PLOTTED TEMPLATE AREAS CHECKED	BY	DATE



USER NAME = ken.moy
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STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

VETERANS MEMORIAL TRAIL
 CROSS SECTIONS

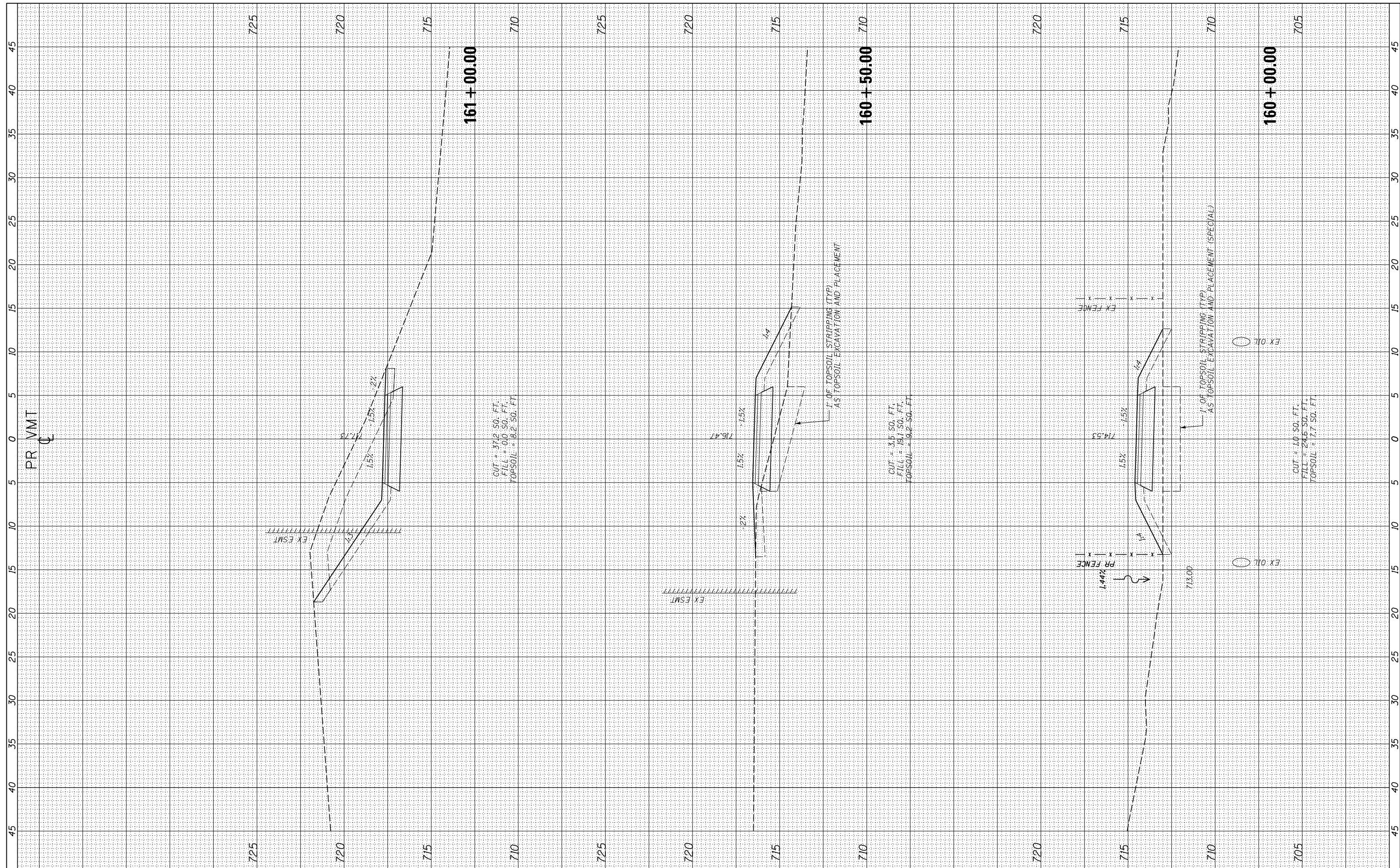
SCALE: 10H : 5V SHEET OF SHEETS STA. 158+75.00 TO STA. 159+08.87

F.A. RTÉ.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	11-F3001-00-BT	WILL	234	175
CONTRACT NO. 61674				

ILLINOIS FED. AID PROJECT

FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
NO.	TEMPLATE		
	AREAS		
	CHECKED		

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



USER NAME = ken.moy
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 PLOT DATE = 2/8/2021

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 CHECKED - BMC
 DATE - 2/09/2021

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STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

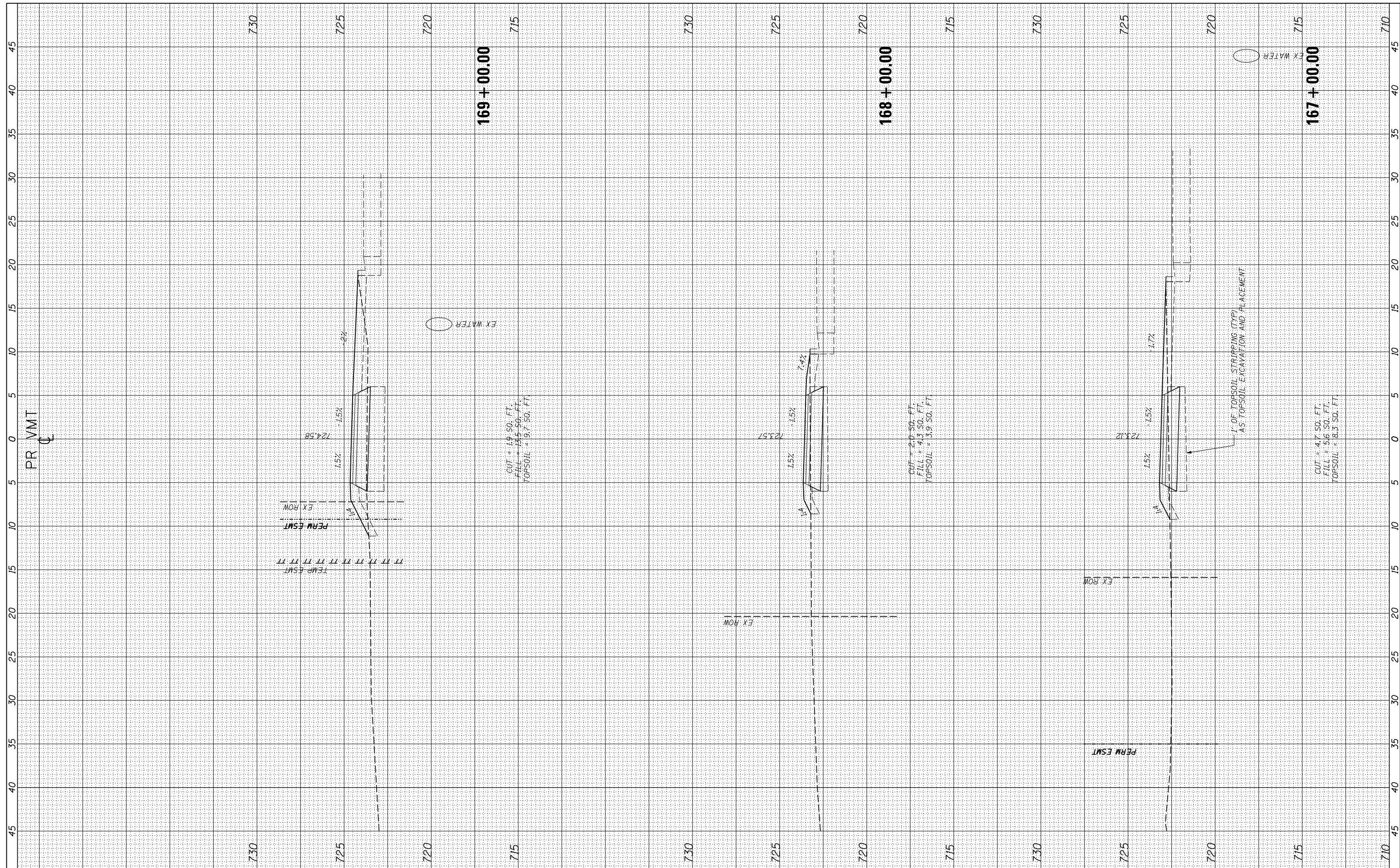
VETERANS MEMORIAL TRAIL
 CROSS SECTIONS

SCALE: 10H : 5V SHEET OF SHEETS STA. 160+00.00 TO STA. 161+00.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	11-F3001-00-BT	WILL	234	177
			CONTRACT NO. 61674	
ILLINOIS FED. AID PROJECT				

FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK NO.	PLOTTED TEMPLATE AREAS CHECKED		

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



USER NAME = ken.moy
 PLOT SCALE = 10.0000' / in.
 PLOT DATE = 2/8/2021

DESIGNED - KLM
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 CHECKED - BMC
 DATE - 2/09/2021

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STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

VETERANS MEMORIAL TRAIL
 CROSS SECTIONS

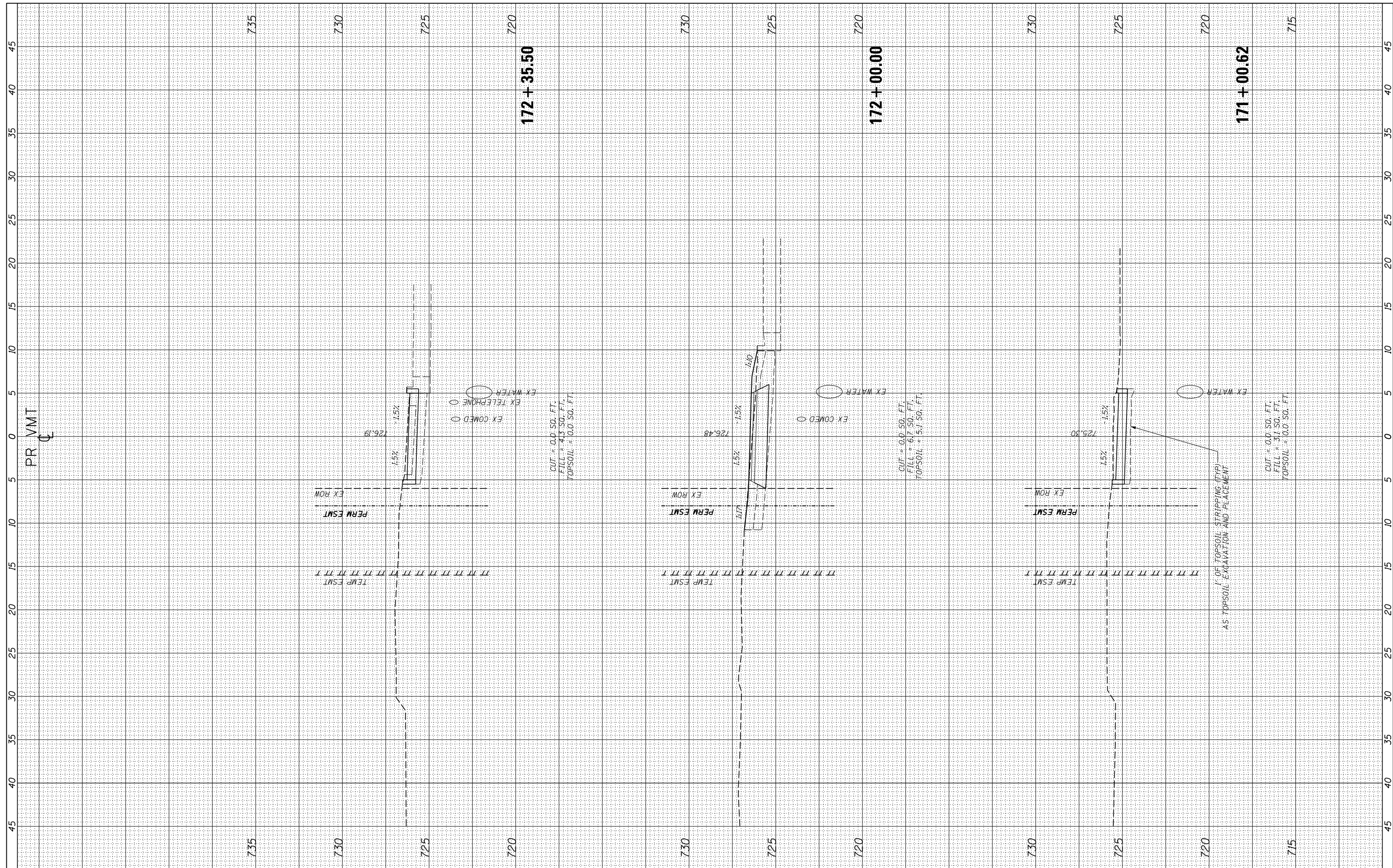
SCALE: 10H : 5V SHEET OF SHEETS STA. 167+00.00 TO STA. 169+00.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	11-F3001-00-BT	WILL	234	181
			CONTRACT NO. 61674	

ILLINOIS FED. AID PROJECT

FINAL SURVEY	SURVEYED	DATE
NOTE BOOK	PLOTTED	
NO.	TEMPLATE	
	AREAS	
	CHECKED	

ORIGINAL SURVEY	SURVEYED	DATE
NOTE BOOK	PLOTTED	
NO.	TEMPLATE	
	AREAS	
	CHECKED	



USER NAME = ken.moy
 PLOT SCALE = 10.0000' / in.
 PLOT DATE = 2/8/2021

DESIGNED - KLM
 DRAWN - KJB
 CHECKED - BMC
 DATE - 2/09/2021

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STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

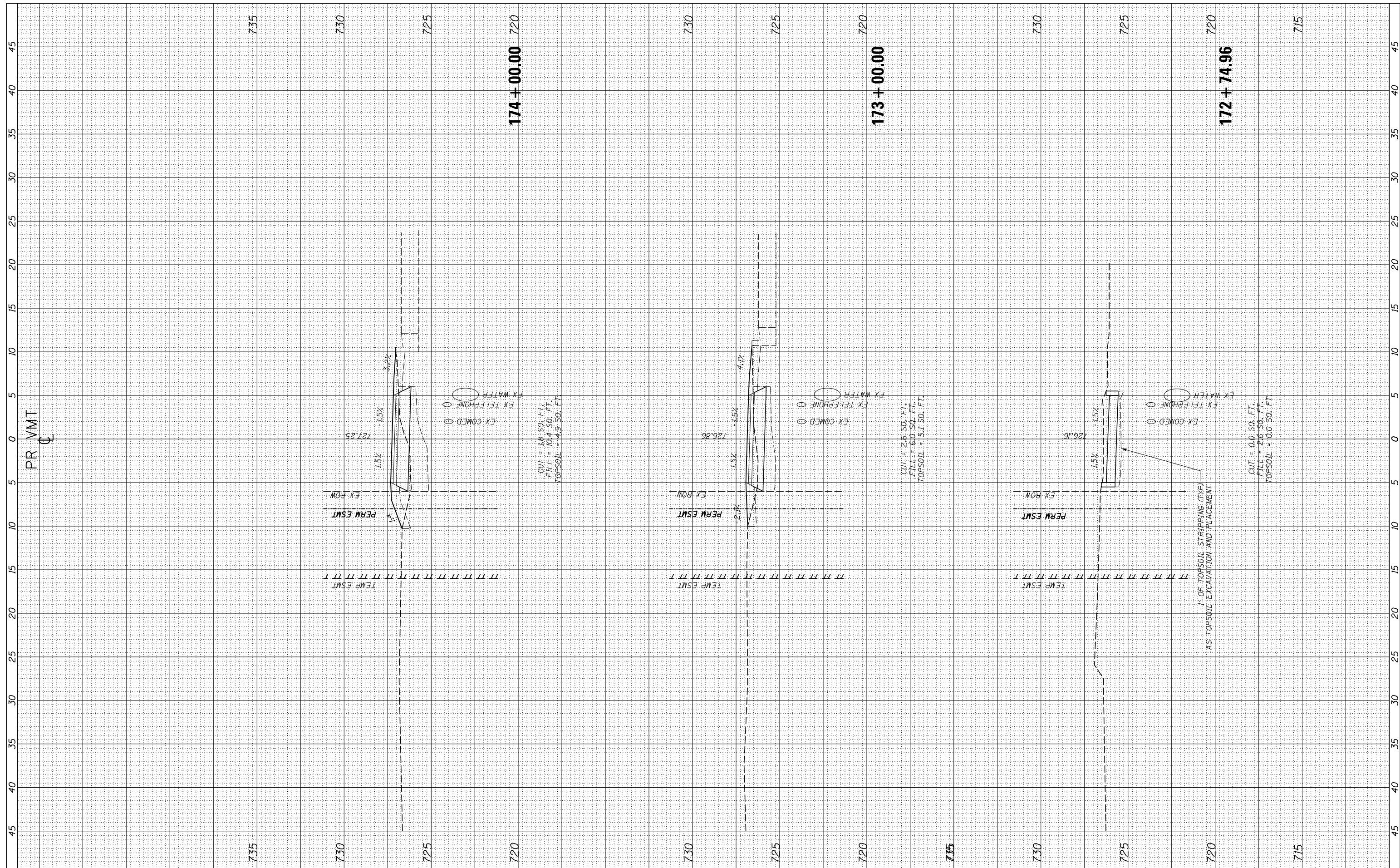
VETERANS MEMORIAL TRAIL
 CROSS SECTIONS

SCALE: 10H : 5V SHEET OF SHEETS STA. 171+00.62 TO STA. 172+35.50

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	11-F3001-00-BT	WILL	234	183
			CONTRACT NO. 61674	
ILLINOIS FED. AID PROJECT				

FINAL SURVEY NO.	SURVEYED PLOTTED TEMPLATE AREAS CHECKED	BY	DATE

ORIGINAL SURVEY NO.	SURVEYED PLOTTED TEMPLATE AREAS CHECKED	BY	DATE



USER NAME = ken.moy
 PLOT SCALE = 10.0000' / in.
 PLOT DATE = 2/8/2021

DESIGNED - KLM
 DRAWN - KJB
 CHECKED - BMC
 DATE - 2/09/2021

REVISED -
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STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

VETERANS MEMORIAL TRAIL
 CROSS SECTIONS

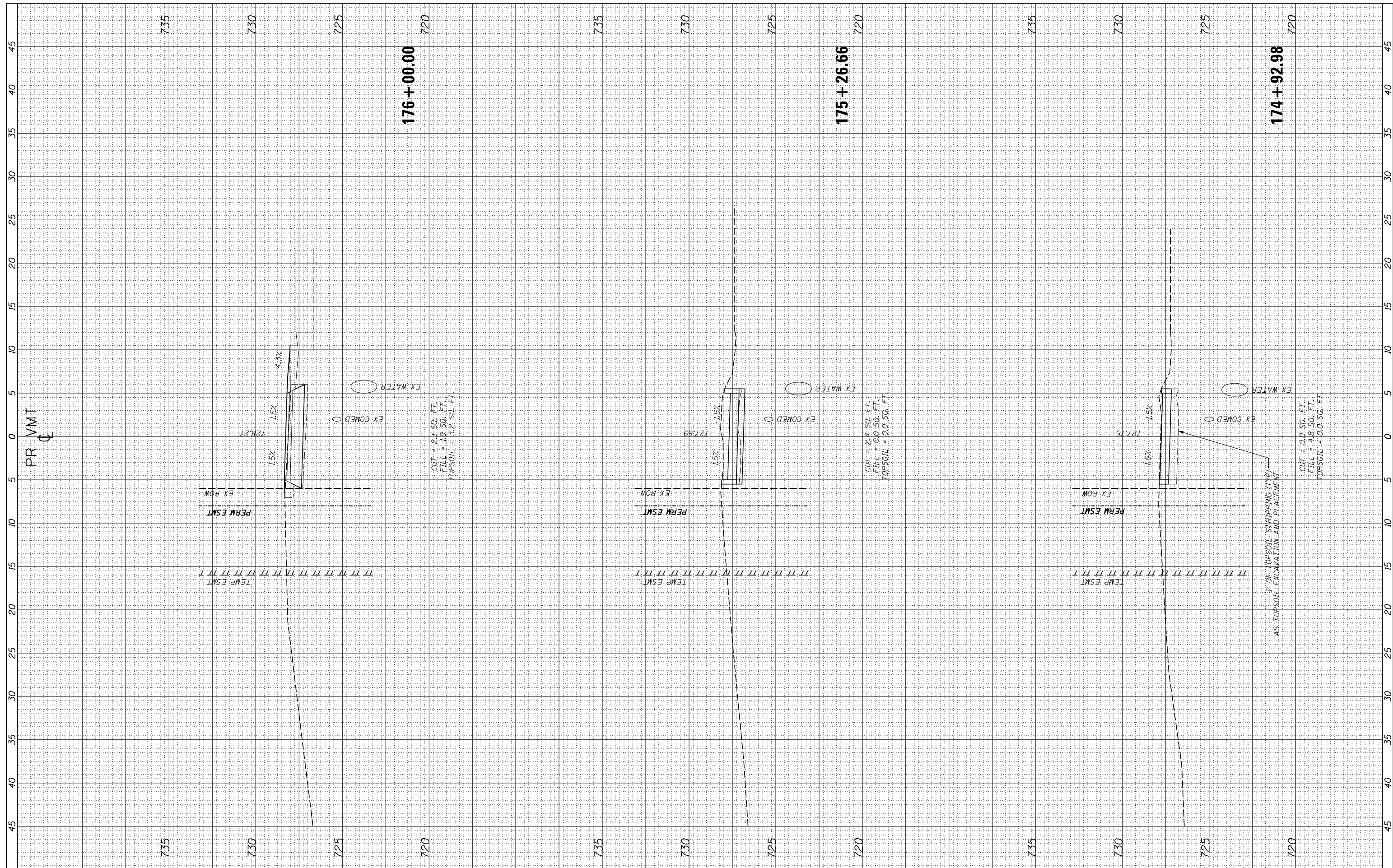
SCALE: 10H : 5V SHEET OF SHEETS STA. 172+74.96 TO STA. 174+00.00

F.A. RTÉ.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	11-F3001-00-BT	WILL	234	184
CONTRACT NO. 61674				

ILLINOIS FED. AID PROJECT

FINAL SURVEY NO.	SURVEYED PLOTTED AREAS CHECKED	BY	DATE
NOTE BOOK NO.	TEMPLATE AREAS CHECKED		

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



USER NAME = ken.moy
 PLOT SCALE = 10.0000' / in.
 PLOT DATE = 2/8/2021

DESIGNED - KLM
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STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

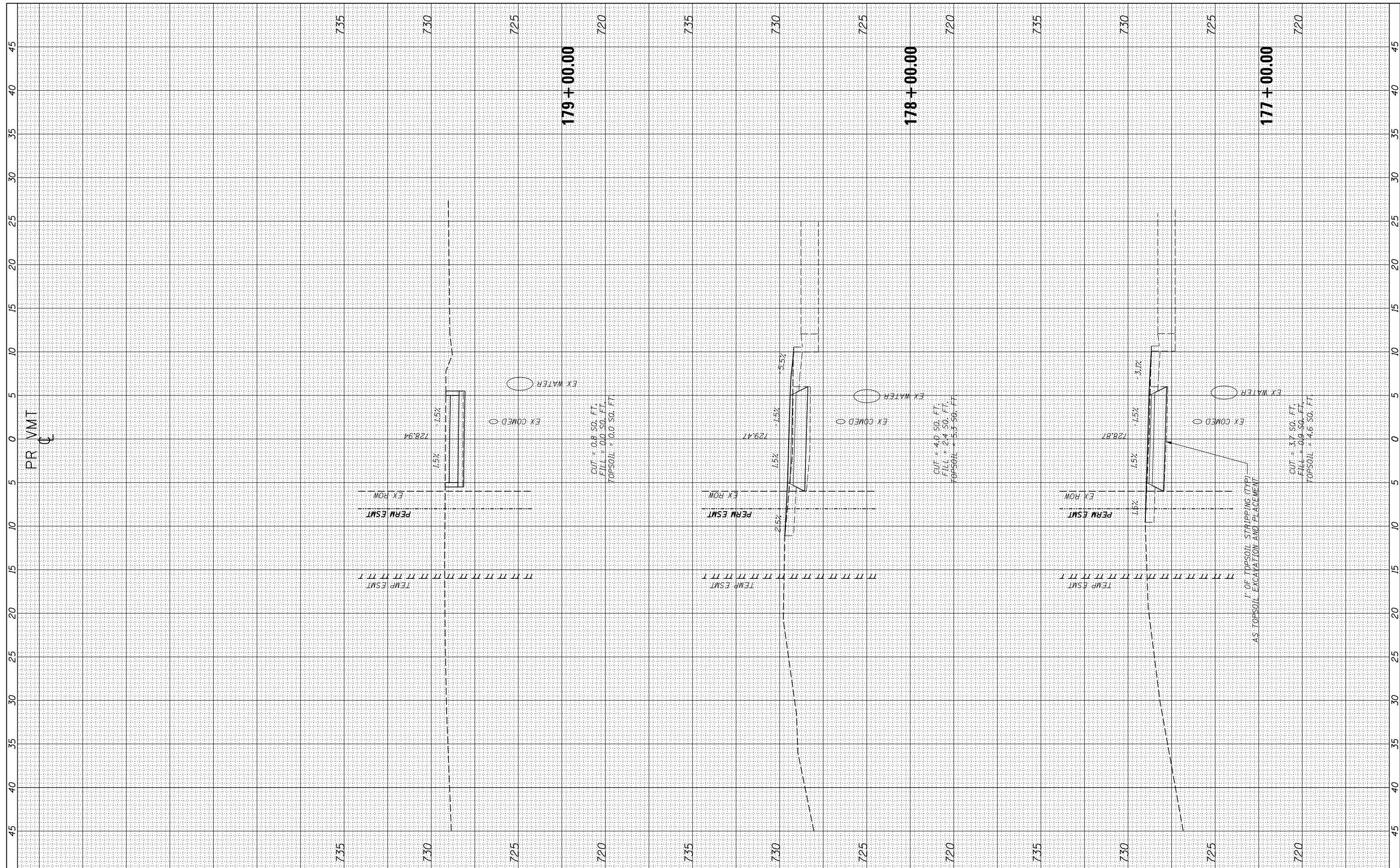
VETERANS MEMORIAL TRAIL
 CROSS SECTIONS

SCALE: 10H : 5V SHEET OF SHEETS STA. 174+92.98 TO STA. 176+00.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	11-F3001-00-BT	WILL	234	185
CONTRACT NO. 61674			ILLINOIS FED. AID PROJECT	

FINAL SURVEY NO.	SURVEYED PLOTTED AREAS CHECKED	BY	DATE
NOTE BOOK NO.	TEMPLATE AREAS CHECKED		

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



USER NAME = ken.moy
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STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

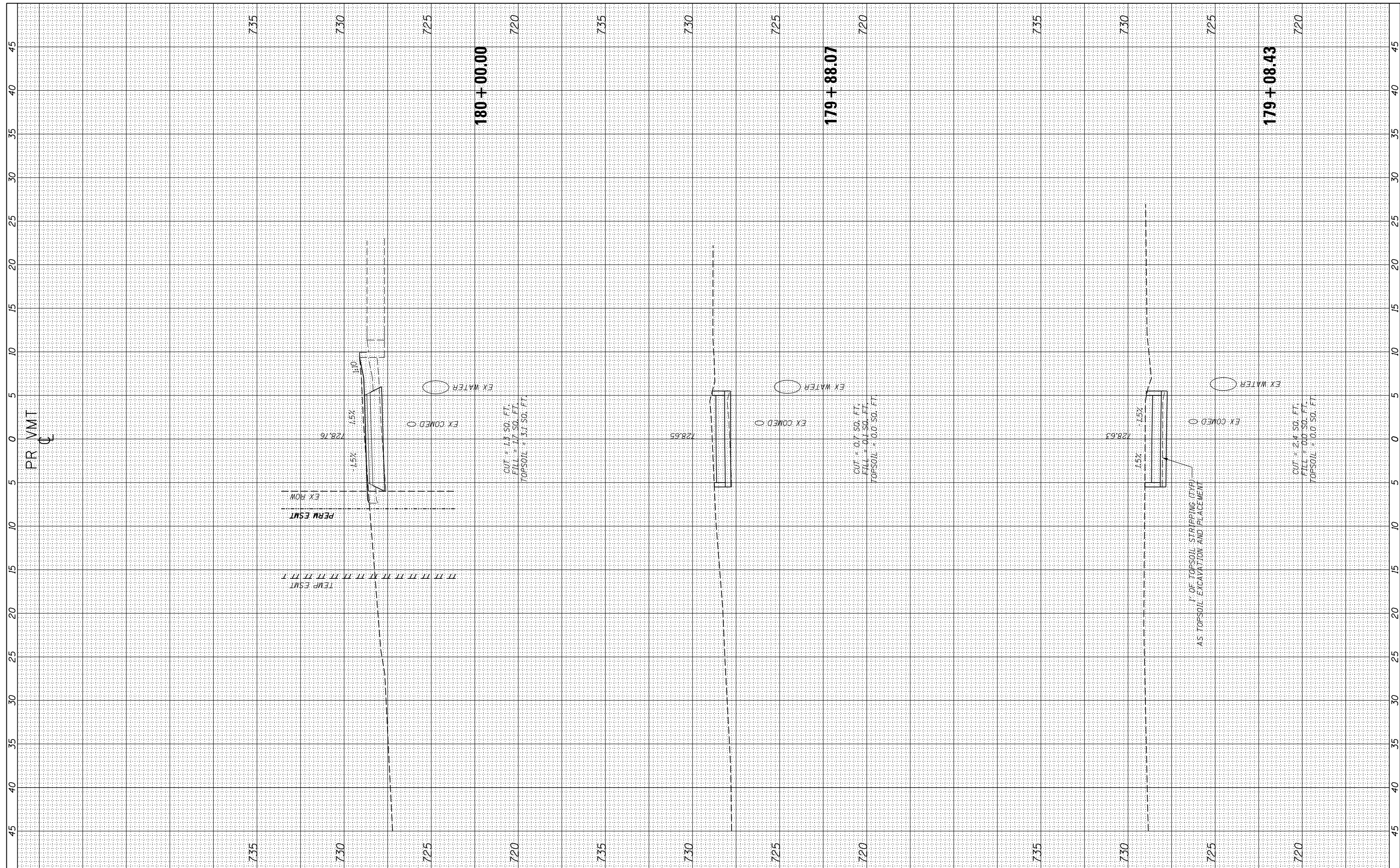
VETERANS MEMORIAL TRAIL
 CROSS SECTIONS

SCALE: 10H : 5V SHEET OF SHEETS STA. 177+00.00 TO STA. 179+00.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	11-F3001-00-BT	WILL	234	186
			CONTRACT NO. 61674	
ILLINOIS FED. AID PROJECT				

FINAL SURVEY NO.	SURVEYED PLOTTED TEMPLATE AREAS CHECKED	BY	DATE

ORIGINAL SURVEY NO.	SURVEYED PLOTTED TEMPLATE AREAS CHECKED	BY	DATE



USER NAME = ken.moy
 PLOT SCALE = 10.0000' / in.
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STATE OF ILLINOIS
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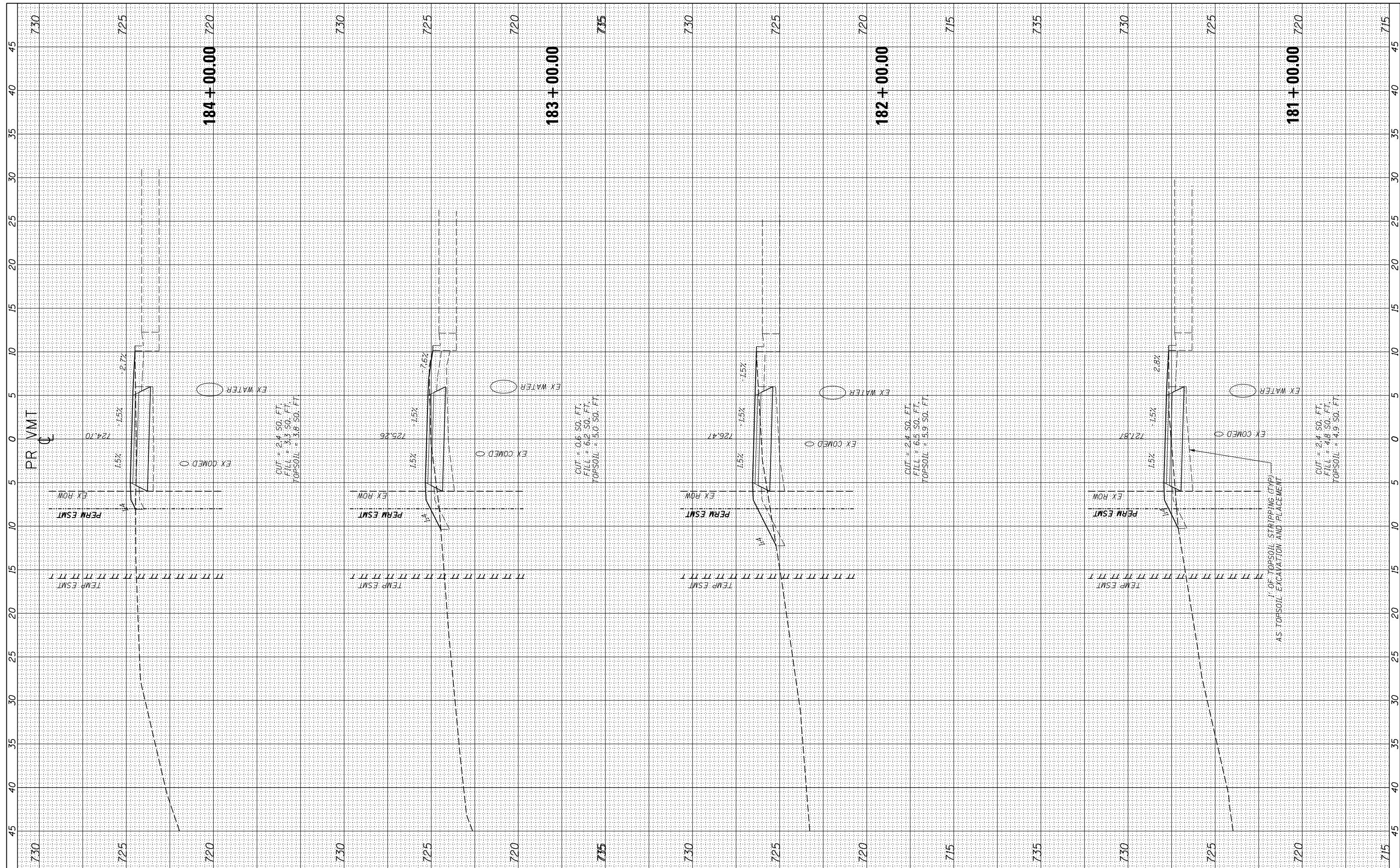
VETERANS MEMORIAL TRAIL
 CROSS SECTIONS

SCALE: 10H : 5V SHEET OF SHEETS STA. 179+08.43 TO STA. 180+00.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	11-F3001-00-BT	WILL	234	187
			CONTRACT NO. 61674	
ILLINOIS FED. AID PROJECT				

FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
AREAS CHECKED	TEMPLATE		
	AREAS CHECKED		

ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
AREAS CHECKED	TEMPLATE		
	AREAS CHECKED		



USER NAME = ken.moy
 PLOT SCALE = 10.0000' / 1"
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STATE OF ILLINOIS
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VETERANS MEMORIAL TRAIL
 CROSS SECTIONS

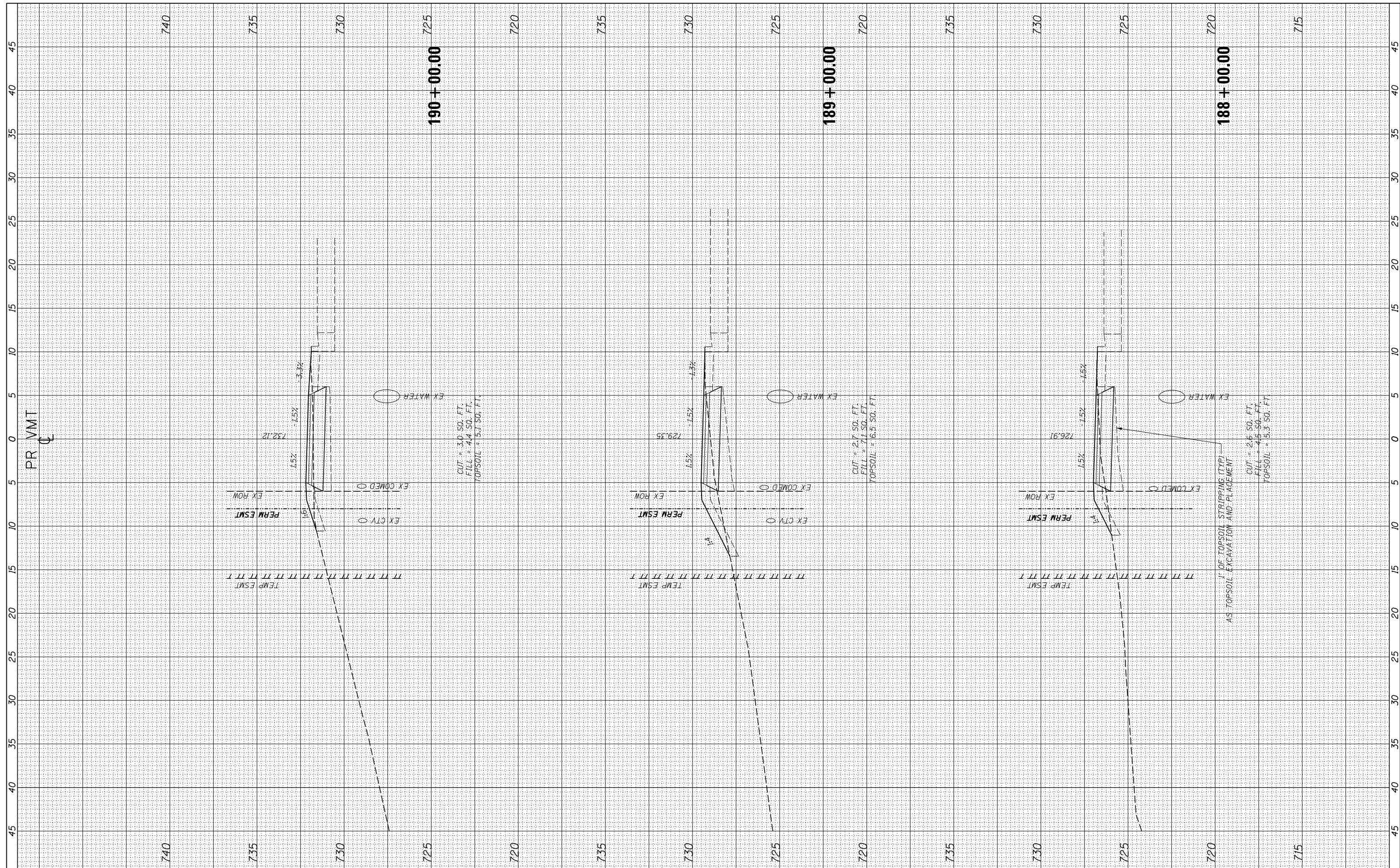
SCALE: 10H : 5V SHEET OF SHEETS STA. 181+00.00 TO STA. 184+00.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	11-F3001-00-BT	WILL	234	188
			CONTRACT NO. 61674	

ILLINOIS FED. AID PROJECT

FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK NO.	PLOTTED TEMPLATE AREAS CHECKED		

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



USER NAME = ken.moy
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 PLOT DATE = 2/8/2021

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STATE OF ILLINOIS
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VETERANS MEMORIAL TRAIL
 CROSS SECTIONS

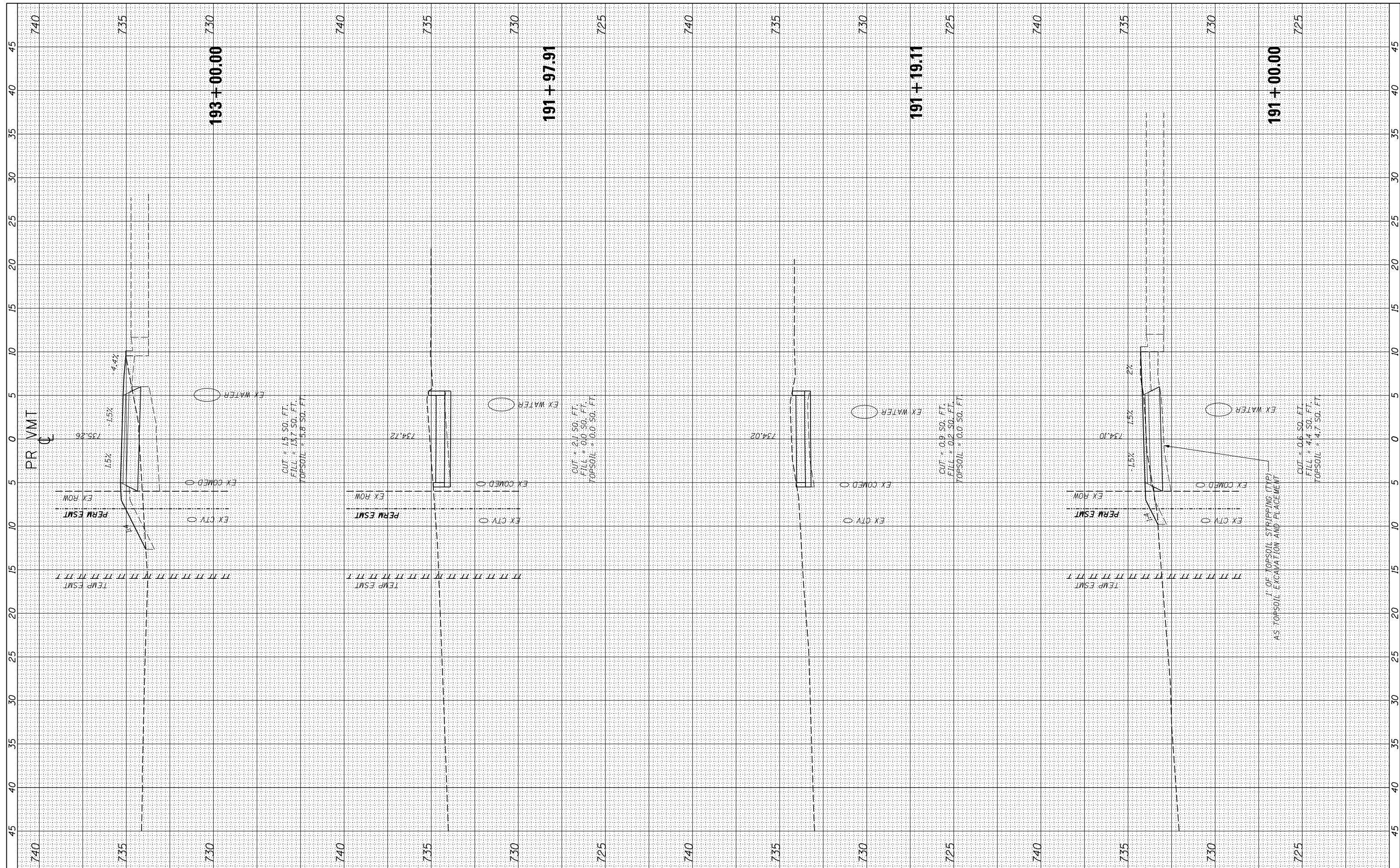
SCALE: 10H : 5V SHEET OF SHEETS STA. 188+00.00 TO STA. 190+00.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	11-F3001-00-BT	WILL	234	190
			CONTRACT NO. 61674	

ILLINOIS FED. AID PROJECT

FINAL SURVEY	SURVEYED	DATE
NOTE BOOK	PLOTTED	
AREAS CHECKED	TEMPLATE	
	AREAS	
	CHECKED	

ORIGINAL SURVEY	SURVEYED	DATE
NOTE BOOK	PLOTTED	
AREAS CHECKED	TEMPLATE	
	AREAS	
	CHECKED	



USER NAME = ken.moy
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STATE OF ILLINOIS
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VETERANS MEMORIAL TRAIL
 CROSS SECTIONS

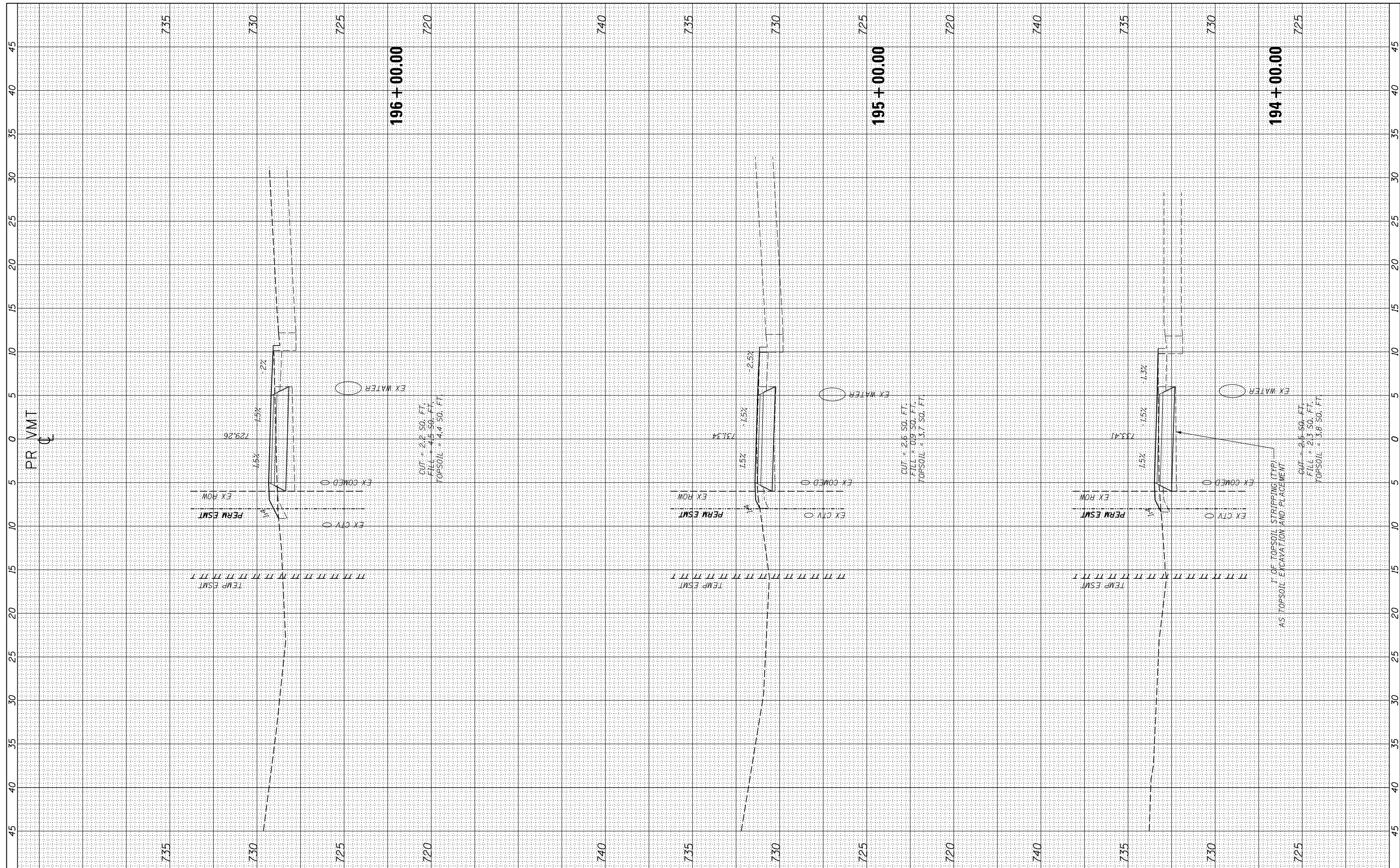
SCALE: 10H : 5V SHEET OF SHEETS STA. 191+00.00 TO STA. 193+00.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	11-F3001-00-BT	WILL	234	191
			CONTRACT NO. 61674	

ILLINOIS FED. AID PROJECT

FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
AREAS CHECKED	TEMPLATE		
	AREAS CHECKED		

ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
AREAS CHECKED	TEMPLATE		
	AREAS CHECKED		



USER NAME = ken.moy
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STATE OF ILLINOIS
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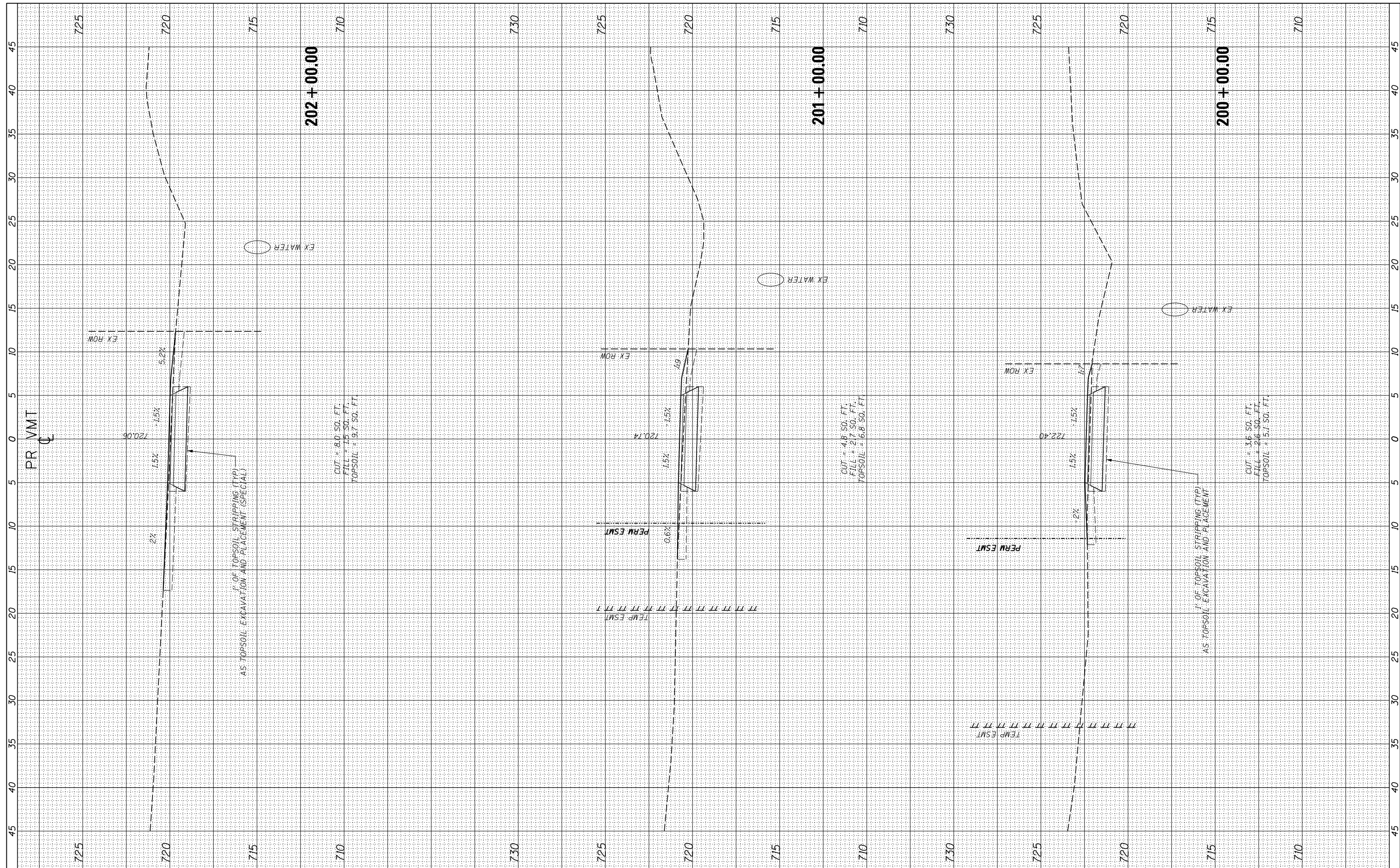
VETERANS MEMORIAL TRAIL
 CROSS SECTIONS

SCALE: 10H : 5V SHEET OF SHEETS STA. 194+00.00 TO STA. 196+00.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	11-F3001-00-BT	WILL	234	192
			CONTRACT NO. 61674	
ILLINOIS FED. AID PROJECT				

FINAL SURVEY NO.	SURVEYED PLOTTED TEMPLATE AREAS CHECKED	BY	DATE

ORIGINAL SURVEY NO.	SURVEYED PLOTTED TEMPLATE AREAS CHECKED	BY	DATE



USER NAME = ken.moy
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VETERANS MEMORIAL TRAIL
 CROSS SECTIONS

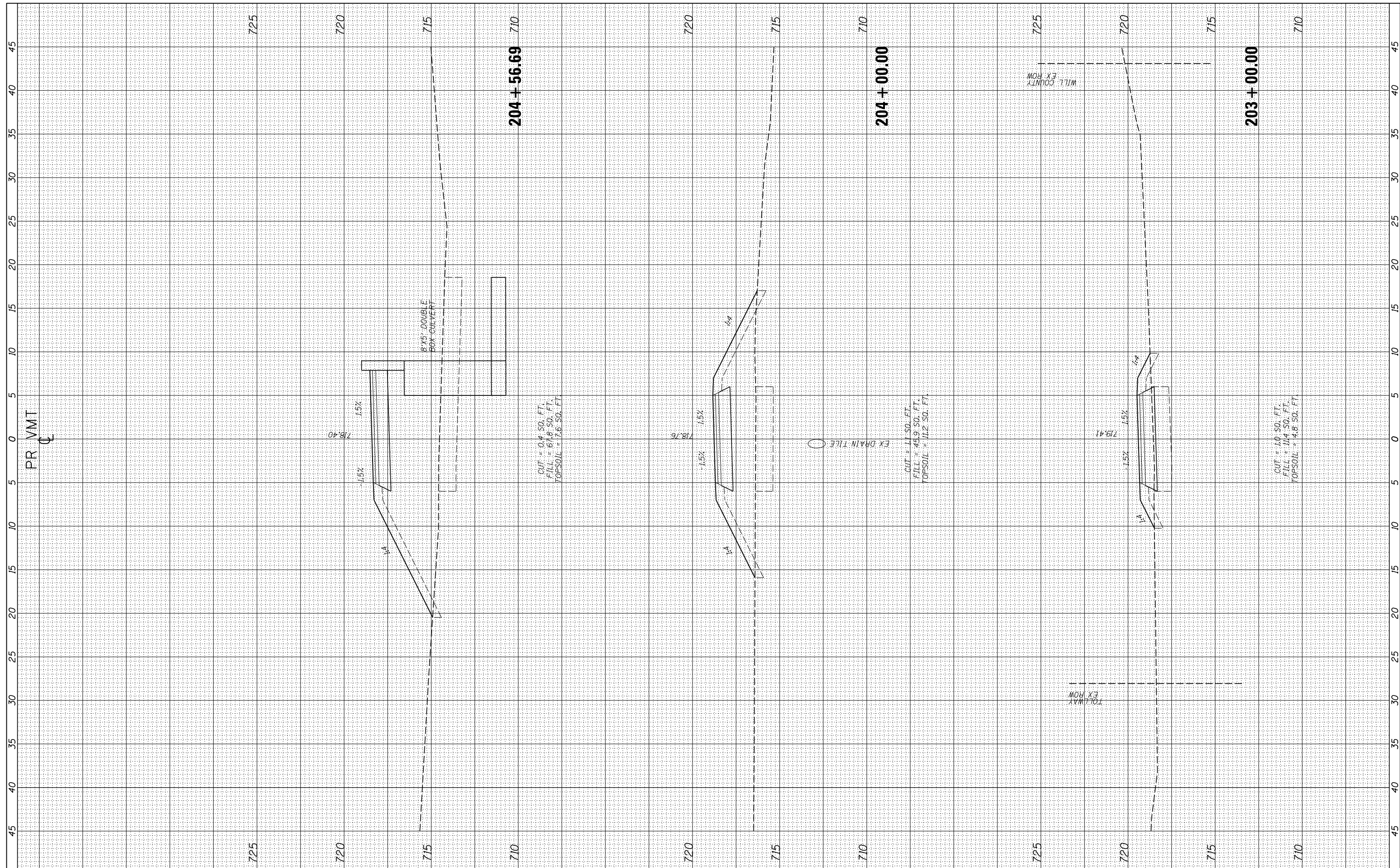
SCALE: 10H : 5V SHEET OF SHEETS STA. 200+00.00 TO STA. 202+00.00

F.A. RTÉ.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	11-F3001-00-BT	WILL	234	194
CONTRACT NO. 61674				

ILLINOIS FED. AID PROJECT

FINAL SURVEY NO.	SURVEYED PLOTTED TEMPLATE AREAS CHECKED	BY	DATE

ORIGINAL SURVEY NO.	SURVEYED PLOTTED TEMPLATE AREAS CHECKED	BY	DATE



USER NAME = ken.moy
 PLOT SCALE = 10.0000' / in.
 PLOT DATE = 2/8/2021

DESIGNED - KLM
 DRAWN - KJB
 CHECKED - BMC
 DATE - 2/09/2021

REVISED -
 REVISED -
 REVISED -
 REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

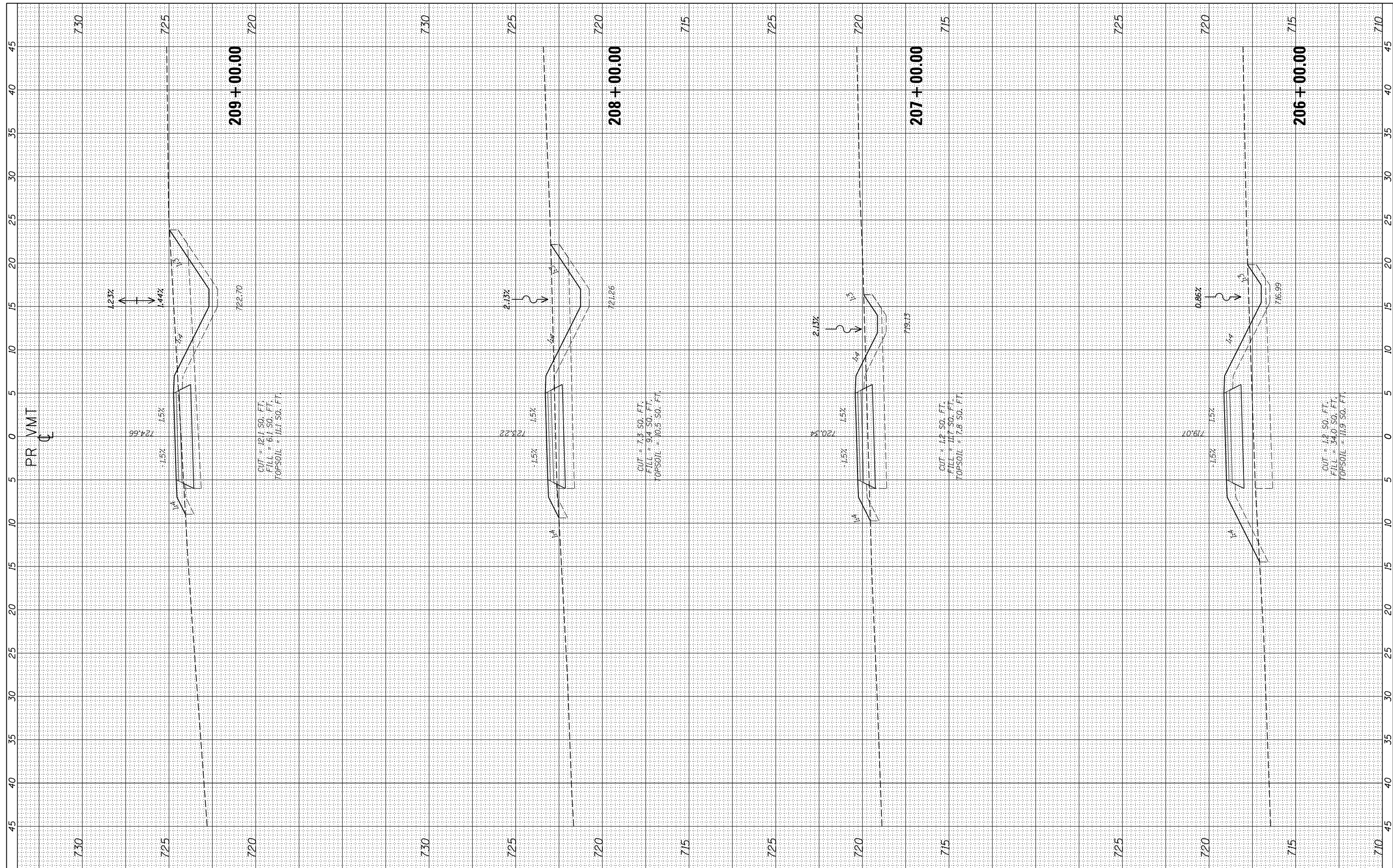
VETERANS MEMORIAL TRAIL
 CROSS SECTIONS

SCALE: 10H : 5V SHEET OF SHEETS STA. 203+00.00 TO STA. 204+56.69

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	11-F3001-00-BT	WILL	234	195
			CONTRACT NO. 61674	
ILLINOIS FED. AID PROJECT				

FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
AREAS CHECKED	TEMPLATE		
NO.	AREAS CHECKED		

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



USER NAME = ken.moy
 PLOT SCALE = 10.0000' / in.
 PLOT DATE = 2/8/2021

DESIGNED - KLM
 DRAWN - KJB
 CHECKED - BMC
 DATE - 2/09/2021

REVISED -
 REVISED -
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 REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

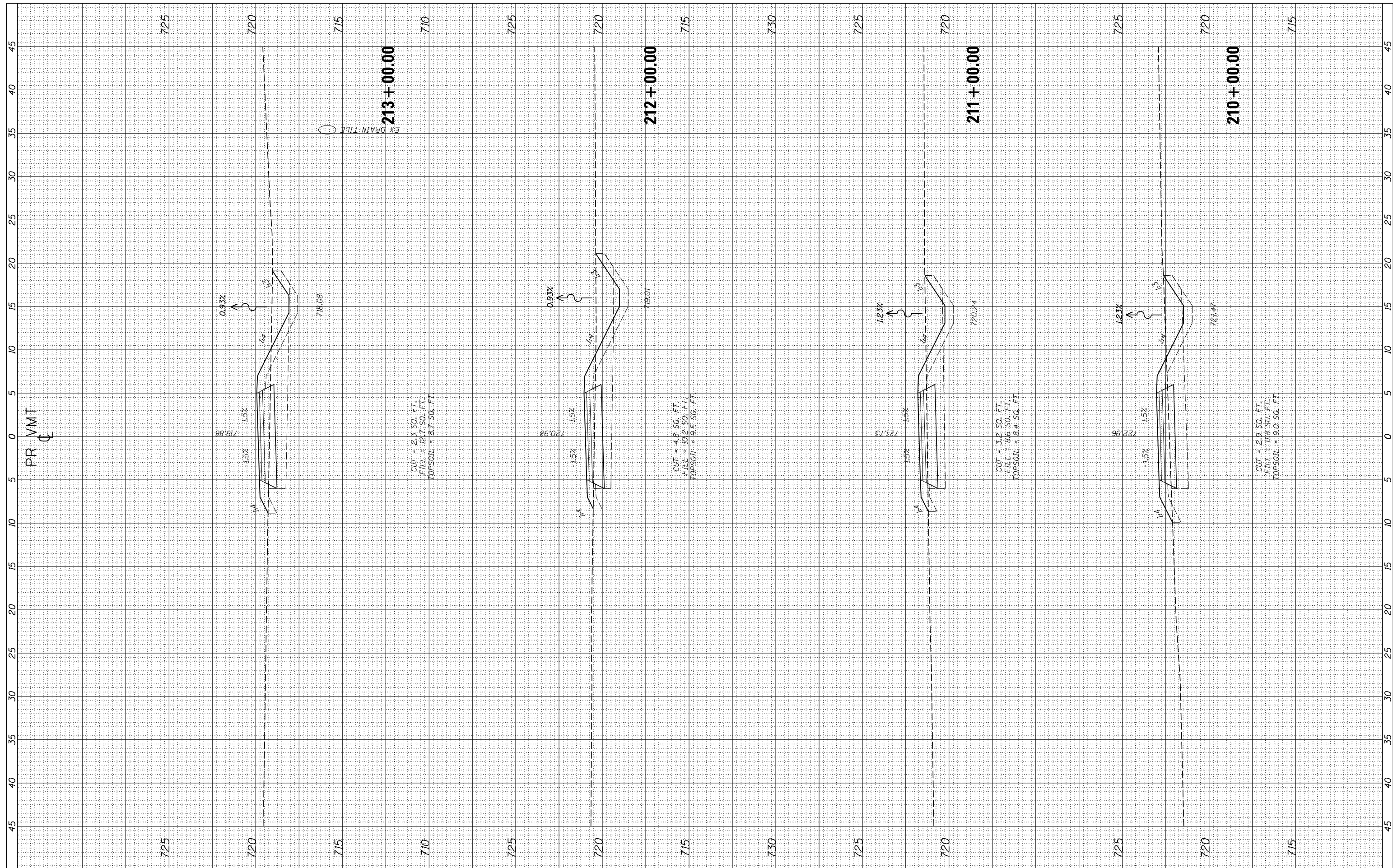
VETERANS MEMORIAL TRAIL
 CROSS SECTIONS

SCALE: 10H : 5V SHEET OF SHEETS STA. 206+00.00 TO STA. 209+00.00

F.A. RTÉ.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	11-F3001-00-BT	WILL	234	197
			CONTRACT NO. 61674	
ILLINOIS FED. AID PROJECT				

FINAL SURVEY	SURVEYED	BY	DATE
NO.	PLOTTED		
	TEMPLATE		
	AREAS		
	CHECKED		

ORIGINAL SURVEY	SURVEYED	BY	DATE
NO.	PLOTTED		
	TEMPLATE		
	AREAS		
	CHECKED		



USER NAME = ken.moy
 PLOT SCALE = 10.0000' / in.
 PLOT DATE = 2/8/2021

DESIGNED - KLM
 DRAWN - KJB
 CHECKED - BMC
 DATE - 2/09/2021

REVISED -
 REVISED -
 REVISED -
 REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

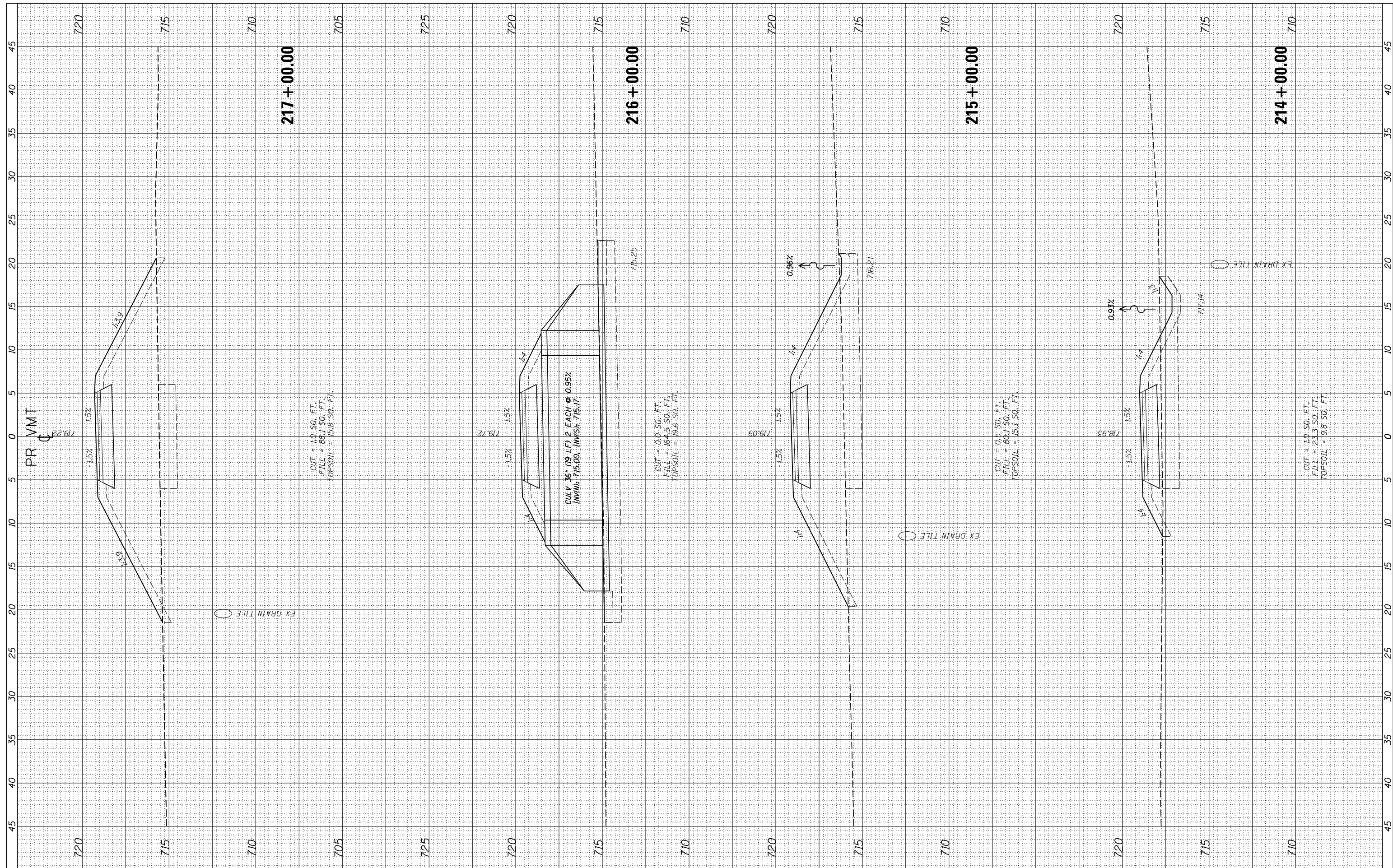
VETERANS MEMORIAL TRAIL
 CROSS SECTIONS

SCALE: 10H : 5V SHEET OF SHEETS STA. 210+00.00 TO STA. 213+00.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	11-F3001-00-BT	WILL	234	198
			CONTRACT NO. 61674	
ILLINOIS FED. AID PROJECT				

FINAL SURVEY NO.	SURVEYED PLOTTED	DATE
NOTE BOOK NO.	TEMPLATE AREAS CHECKED	

ORIGINAL SURVEY NO.	SURVEYED PLOTTED	DATE
NOTE BOOK NO.	TEMPLATE AREAS CHECKED	



USER NAME = ken.moy
 PLOT SCALE = 10.0000" / 1"
 PLOT DATE = 2/8/2021

DESIGNED - KLM
 DRAWN - KJB
 CHECKED - BMC
 DATE - 2/09/2021

REVISED -
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 REVISED -
 REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

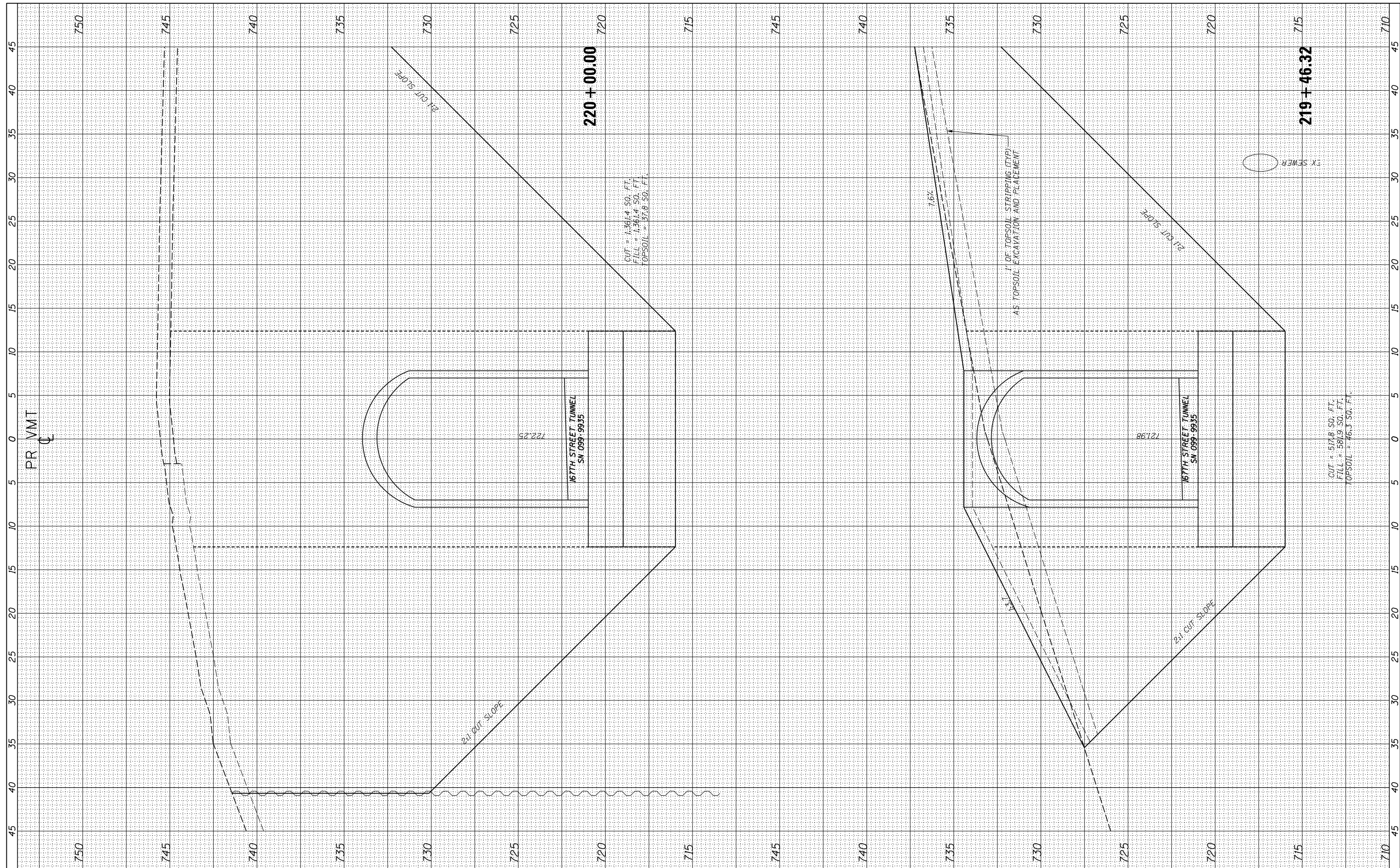
VETERANS MEMORIAL TRAIL
 CROSS SECTIONS

SCALE: 10H : 5V SHEET OF SHEETS STA. 214+00.00 TO STA. 217+00.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	11-F3001-00-BT	WILL	234	199
CONTRACT NO. 61674			ILLINOIS FED. AID PROJECT	

FINAL SURVEY	SURVEYED	BY	DATE
NO.	PLOTTED		
	TEMPLATE		
	AREAS		
	CHECKED		

ORIGINAL SURVEY	SURVEYED	BY	DATE
NO.	PLOTTED		
	TEMPLATE		
	AREAS		
	CHECKED		



USER NAME = ken.moy
 PLOT SCALE = 10.0000' / in.
 PLOT DATE = 2/8/2021

DESIGNED - KLM
 DRAWN - KJB
 CHECKED - BMC
 DATE - 2/09/2021

REVISED -
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STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

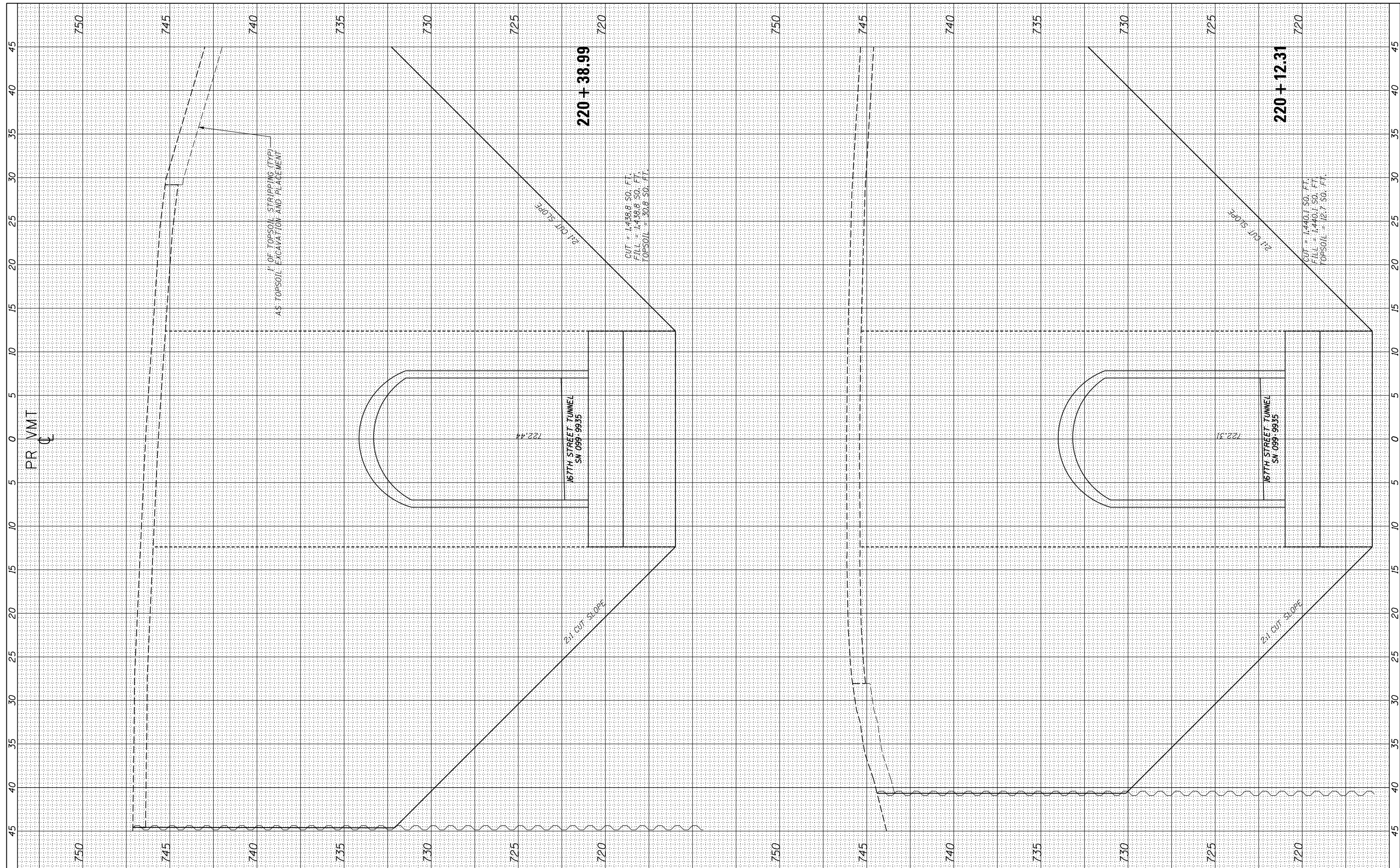
VETERANS MEMORIAL TRAIL
 CROSS SECTIONS

SCALE: 10H : 5V SHEET OF SHEETS STA. 219+46.32 TO STA. 220+00.00

F.A. RTÉ.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	11-F3001-00-BT	WILL	234	201
CONTRACT NO. 61674			ILLINOIS FED. AID PROJECT	

FINAL SURVEY NO.	SURVEYED PLOTTED TEMPLATE AREAS CHECKED	BY	DATE

ORIGINAL SURVEY NO.	SURVEYED PLOTTED TEMPLATE AREAS CHECKED	BY	DATE



USER NAME = ken.moy
 PLOT SCALE = 10.0000' / in.
 PLOT DATE = 2/8/2021

DESIGNED - KLM
 DRAWN - KJB
 CHECKED - BMC
 DATE - 2/09/2021

REVISED -
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 REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

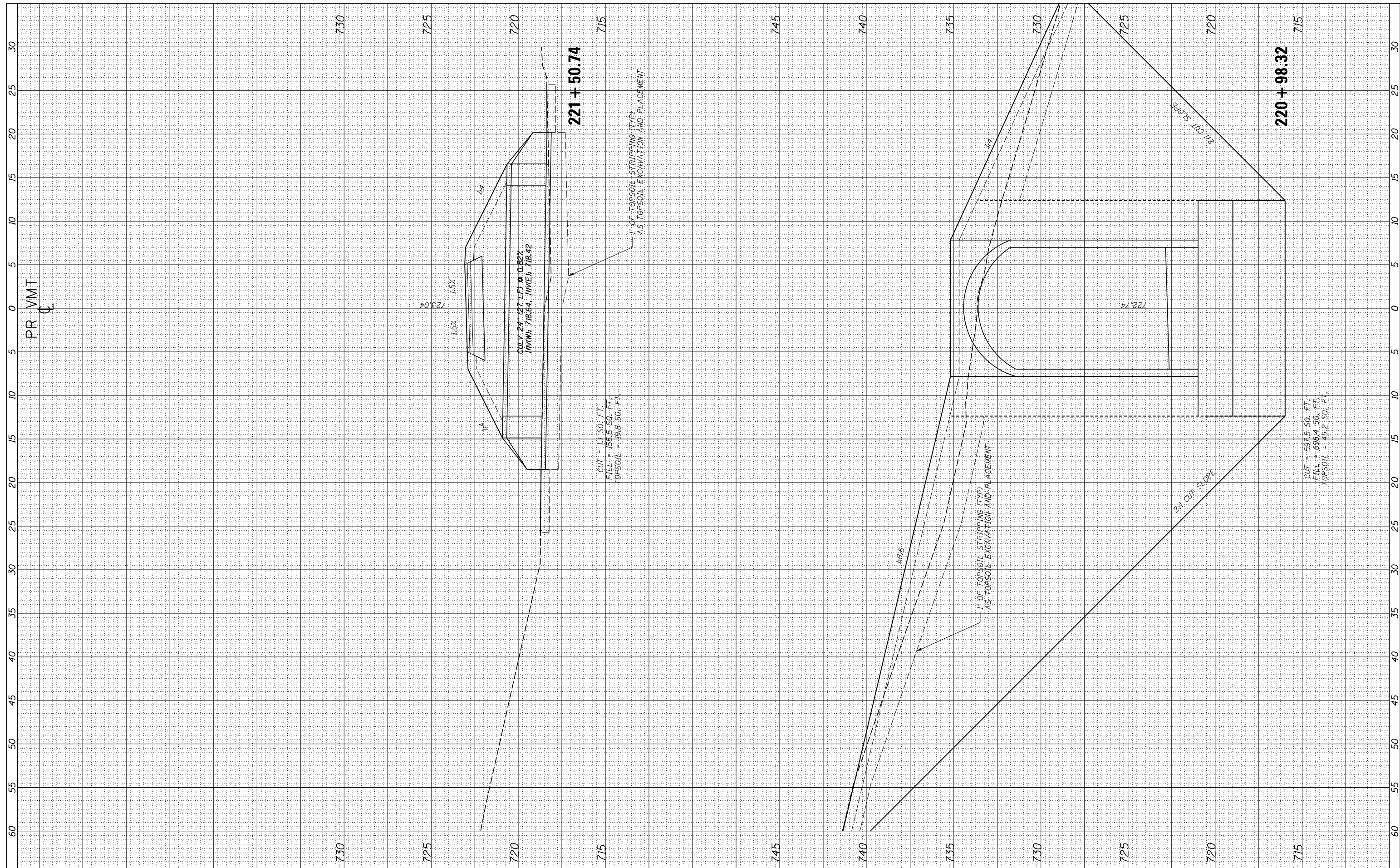
VETERANS MEMORIAL TRAIL
 CROSS SECTIONS

SCALE: 10H : 5V SHEET OF SHEETS STA. 220+12.31 TO STA. 220+38.99

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	11-F3001-00-BT	WILL	234	202
CONTRACT NO. 61674			ILLINOIS FED. AID PROJECT	

FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK NO.	PLOTTED TEMPLATE AREAS CHECKED		

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



USER NAME = ken.moy
 PLOT SCALE = 10.0000' / in.
 PLOT DATE = 2/8/2021

DESIGNED - KLM
 DRAWN - KJB
 CHECKED - BMC
 DATE - 2/09/2021

REVISED -
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STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

VETERANS MEMORIAL TRAIL
 CROSS SECTIONS

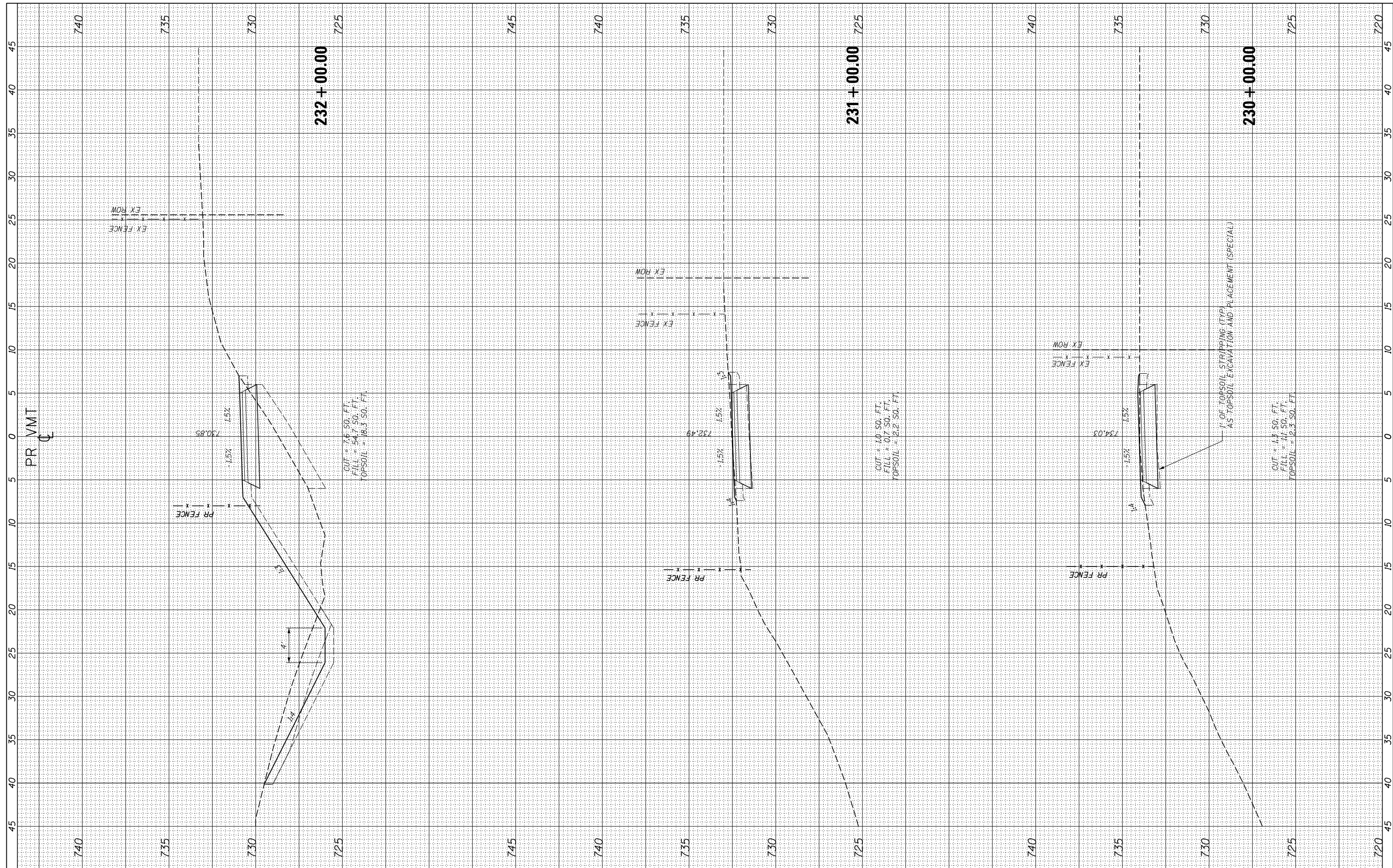
SCALE: 10H : 5V SHEET OF SHEETS STA. 220+98.32 TO STA. 221+50.74

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	11-F3001-00-BT	WILL	234	203
			CONTRACT NO. 61674	

ILLINOIS FED. AID PROJECT

FINAL SURVEY	SURVEYED	DATE
NO.	PLOTTED	
	TEMPLATE	
	AREAS	
	CHECKED	

ORIGINAL SURVEY	SURVEYED	DATE
NO.	PLOTTED	
	TEMPLATE	
	AREAS	
	CHECKED	



USER NAME = ken.moy
 PLOT SCALE = 10.0000' / in.
 PLOT DATE = 2/8/2021

DESIGNED - KLM
 DRAWN - KJB
 CHECKED - BMC
 DATE - 2/09/2021

REVISED -
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 REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

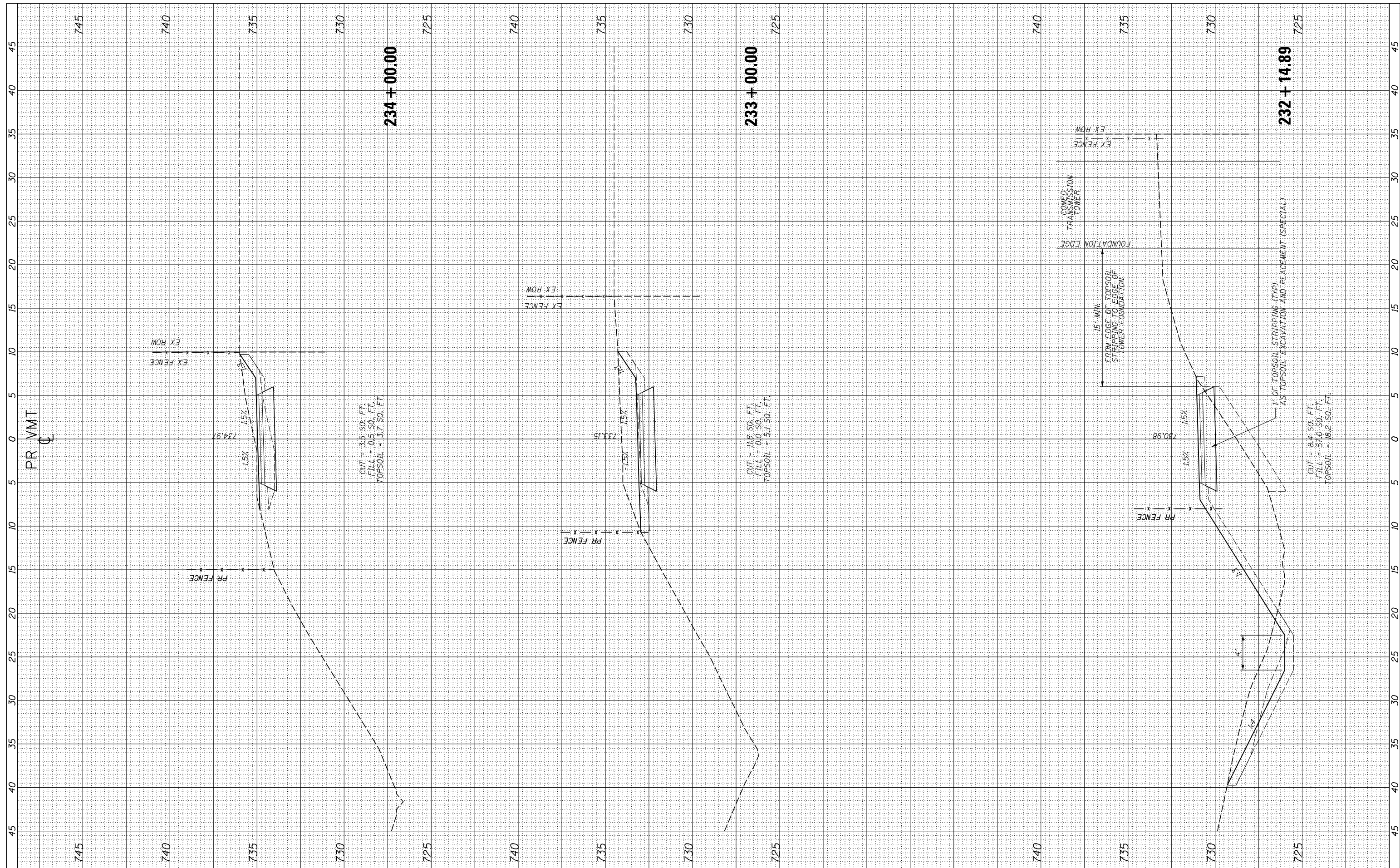
VETERANS MEMORIAL TRAIL
 CROSS SECTIONS

SCALE: 10H : 5V SHEET OF SHEETS STA. 230+00.00 TO STA. 232+00.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	11-F3001-00-BT	WILL	234	207
			CONTRACT NO. 61674	
ILLINOIS FED. AID PROJECT				

FINAL SURVEY	SURVEYED	BY	DATE
NO.	PLOTTED		
	TEMPLATE		
	AREAS CHECKED		

ORIGINAL SURVEY	SURVEYED	BY	DATE
NO.	PLOTTED		
	TEMPLATE		
	AREAS CHECKED		



USER NAME = ken.moy
 PLOT SCALE = 10.0000' / in.
 PLOT DATE = 2/8/2021

DESIGNED - KLM
 DRAWN - KJB
 CHECKED - BMC
 DATE - 2/09/2021

REVISED -
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STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

VETERANS MEMORIAL TRAIL
 CROSS SECTIONS

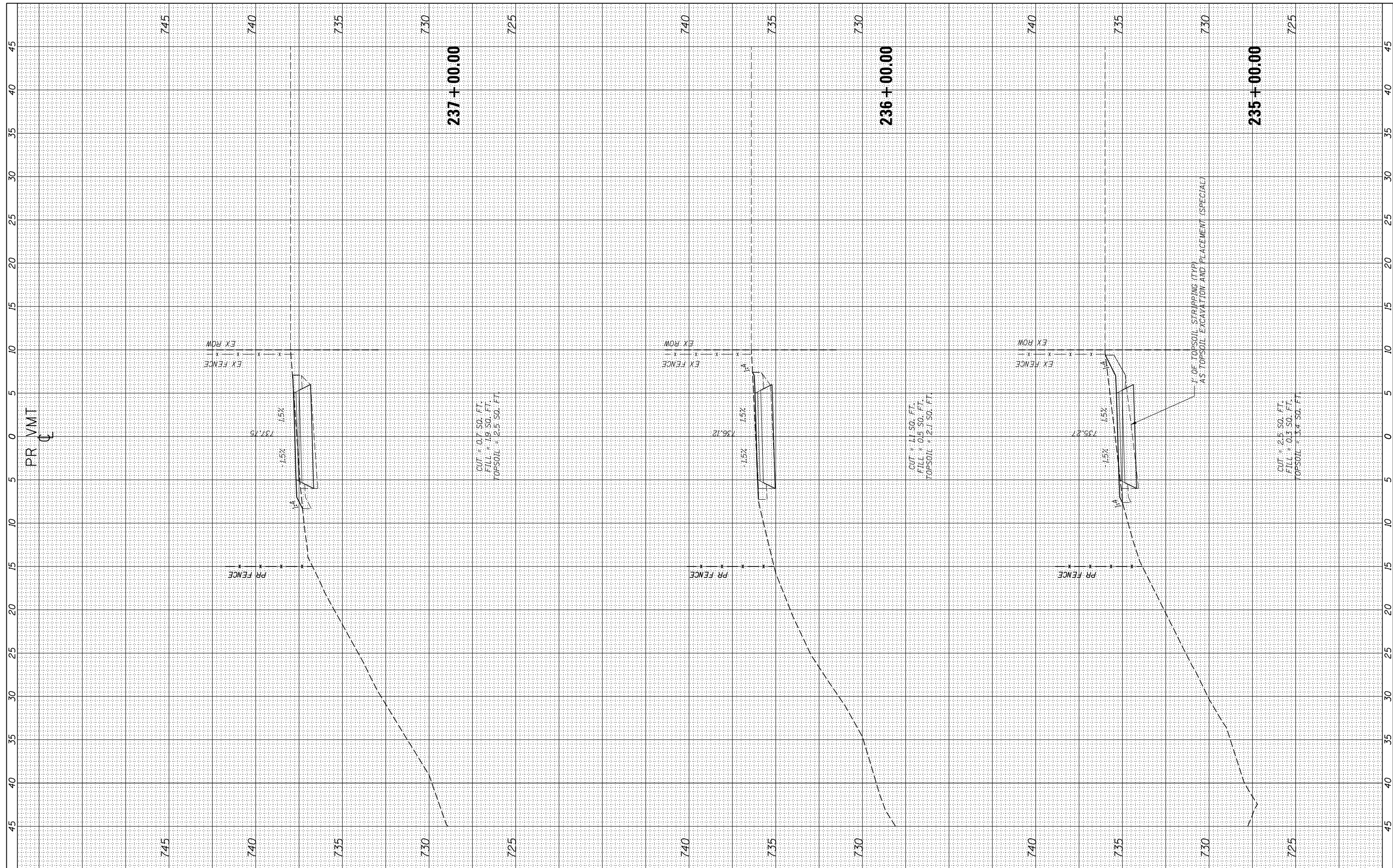
SCALE: 10H : 5V SHEET OF SHEETS STA. 232+27.00 TO STA. 234+00.00

F.A. RTÉ.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	11-F3001-00-BT	WILL	234	208
			CONTRACT NO. 61674	

ILLINOIS FED. AID PROJECT

FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
AREAS CHECKED	TEMPLATE		
NO.	AREAS CHECKED		

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



USER NAME = ken.moy	DESIGNED - KLM	REVISED -
	DRAWN - KJB	REVISED -
PLOT SCALE = 10.0000' / in.	CHECKED - BMC	REVISED -
PLOT DATE = 2/8/2021	DATE - 2/09/2021	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

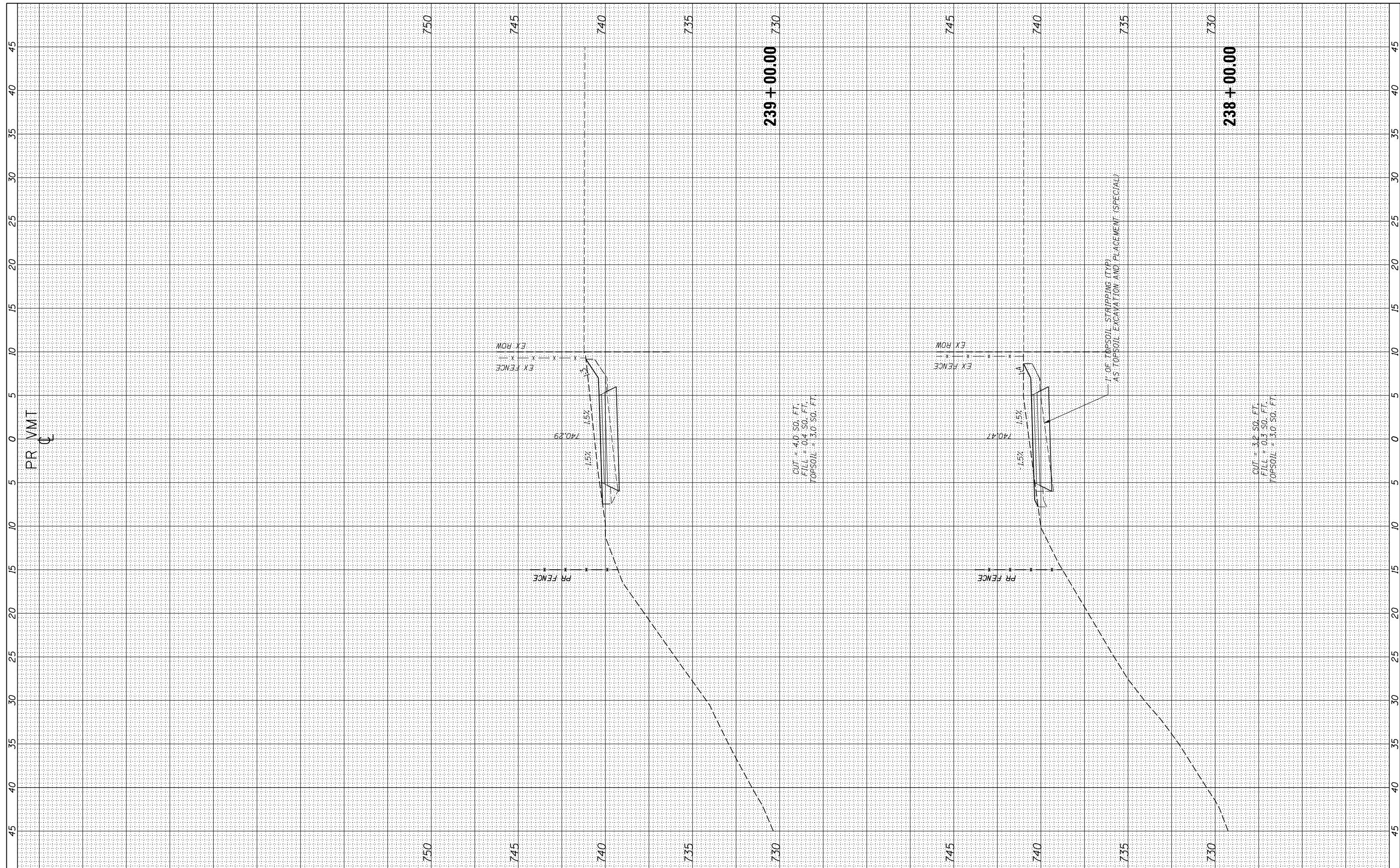
VETERANS MEMORIAL TRAIL
CROSS SECTIONS

SCALE: 10H : 5V SHEET OF SHEETS STA. 235+00.00 TO STA. 237+00.00

F.A. RTÉ.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	11-F3001-00-BT	WILL	234	209
CONTRACT NO. 61674				
ILLINOIS FED. AID PROJECT				

FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK NO.	PLOTTED		
	TEMPLATE		
	AREAS CHECKED		

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



USER NAME = ken.moy
 PLOT SCALE = 10.0000' / in.
 PLOT DATE = 2/8/2021

DESIGNED - KLM
 DRAWN - KJB
 CHECKED - BMC
 DATE - 2/09/2021

REVISED -
 REVISED -
 REVISED -
 REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

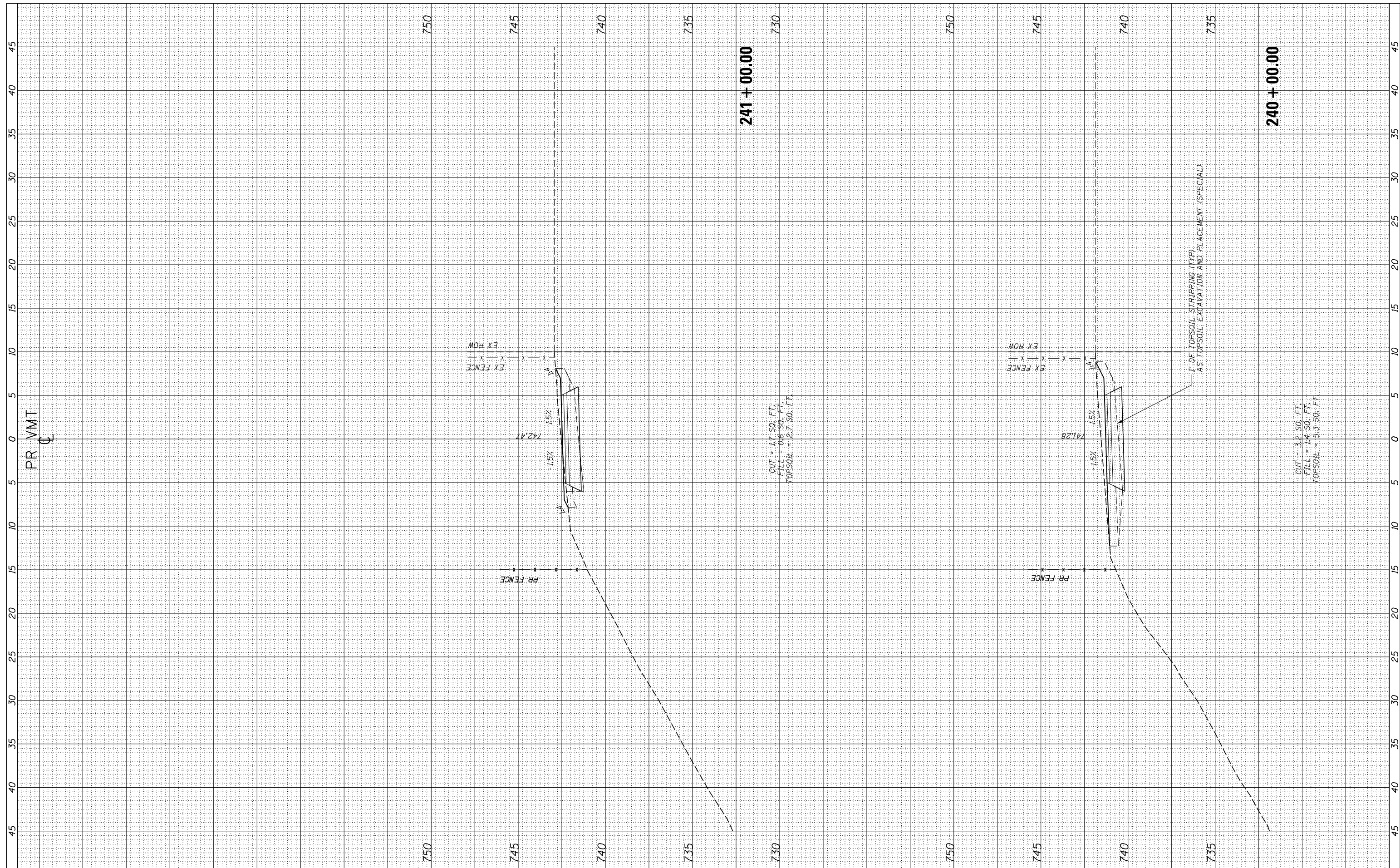
VETERANS MEMORIAL TRAIL
 CROSS SECTIONS

SCALE: 10H : 5V SHEET OF SHEETS STA. 238+00.00 TO STA. 239+00.00

F.A. RTÉ.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	11-F3001-00-BT	WILL	234	210
			CONTRACT NO. 61674	
ILLINOIS FED. AID PROJECT				

FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
NO.	TEMPLATE		
	AREAS		
	CHECKED		

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



USER NAME = ken.moy
 PLOT SCALE = 10.0000' / in.
 PLOT DATE = 2/8/2021

DESIGNED - KLM
 DRAWN - KJB
 CHECKED - BMC
 DATE - 2/09/2021

REVISED -
 REVISED -
 REVISED -
 REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

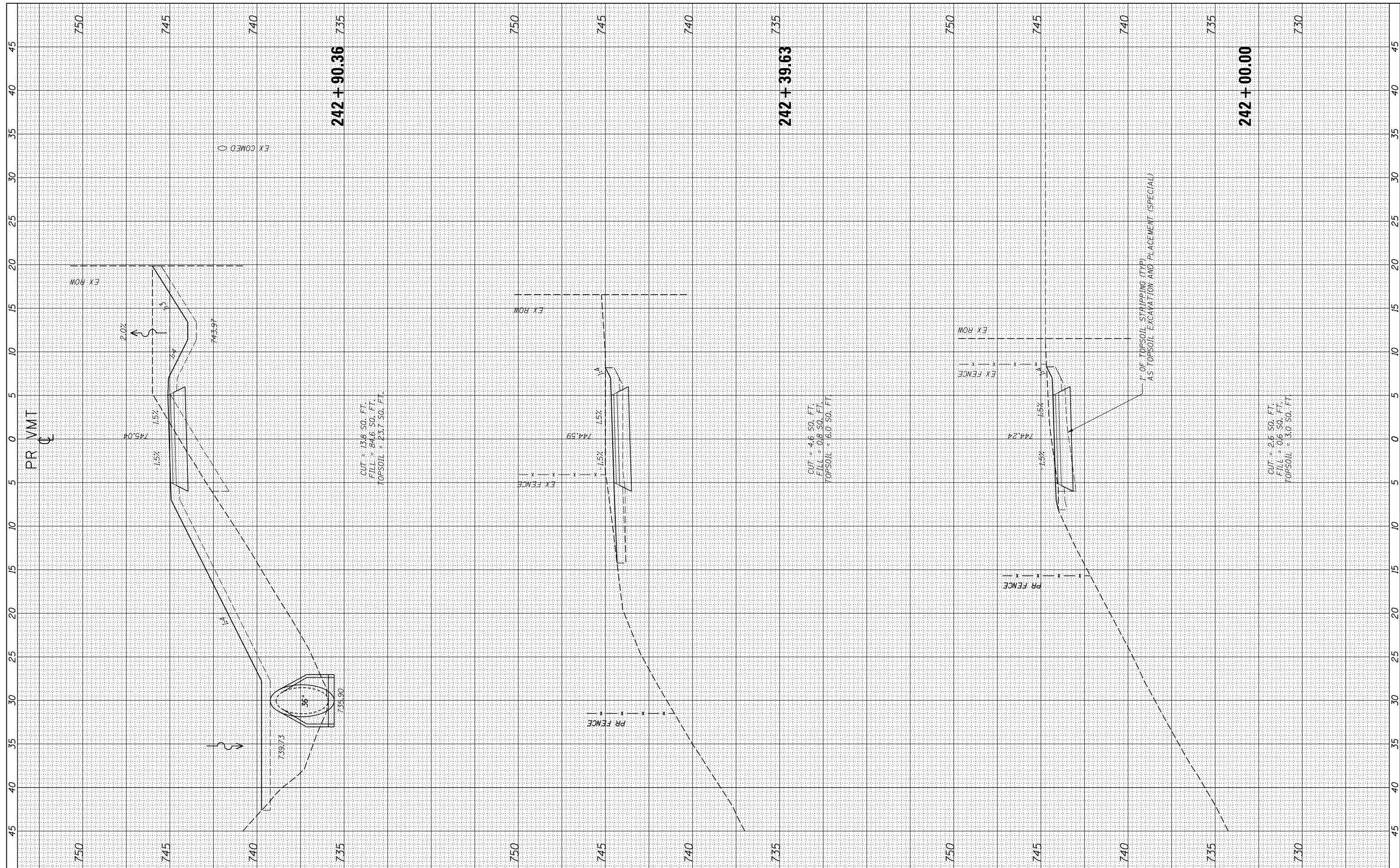
VETERANS MEMORIAL TRAIL
 CROSS SECTIONS

SCALE: 10H : 5V SHEET OF SHEETS STA. 240+00.00 TO STA. 241+00.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	11-F3001-00-BT	WILL	234	211
			CONTRACT NO. 61674	
ILLINOIS FED. AID PROJECT				

FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
AREAS CHECKED	TEMPLATE		
	AREAS		
	CHECKED		

ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
AREAS CHECKED	TEMPLATE		
	AREAS		
	CHECKED		



USER NAME = ken.moy
 DESIGNED - KLM
 DRAWN - KJB
 CHECKED - BMC
 DATE - 2/09/2021

REVISIONS
 REVISED -
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 REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

VETERANS MEMORIAL TRAIL
 CROSS SECTIONS

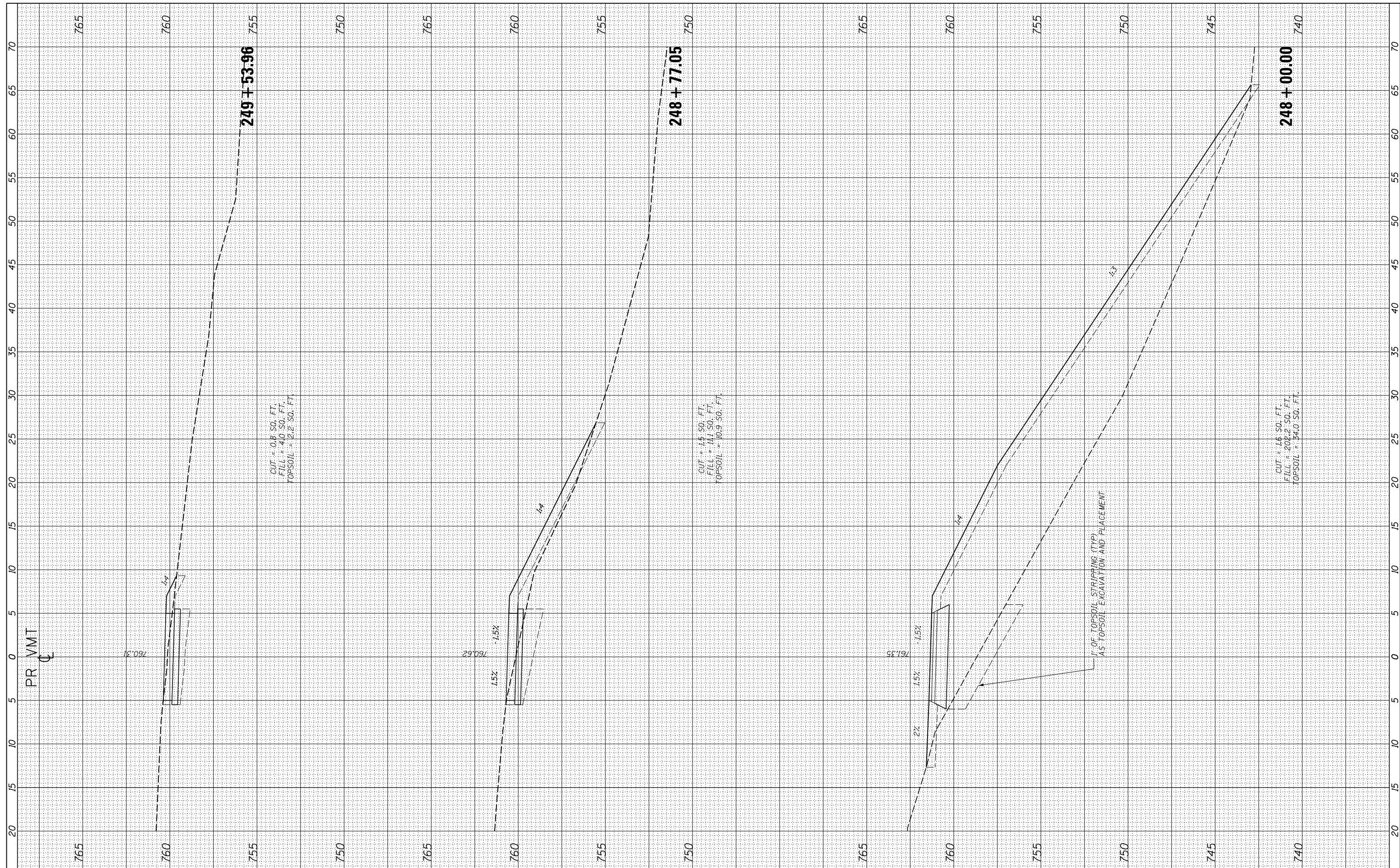
SCALE: 10H : 5V SHEET OF SHEETS STA. 242+00.00 TO STA. 242+90.36

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	11-F3001-00-BT	WILL	234	212
			CONTRACT NO. 61674	

ILLINOIS FED. AID PROJECT

FINAL SURVEY NO.	SURVEYED PLOTTED AREAS CHECKED	BY	DATE

ORIGINAL SURVEY NO.	SURVEYED PLOTTED AREAS CHECKED	BY	DATE



PR VMT



USER NAME = ken.moy	DESIGNED - KLM	REVISED -
PLOT SCALE = 10.0000' / in.	DRAWN - KJB	REVISED -
PLOT DATE = 2/8/2021	CHECKED - BMC	REVISED -
	DATE - 2/09/2021	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

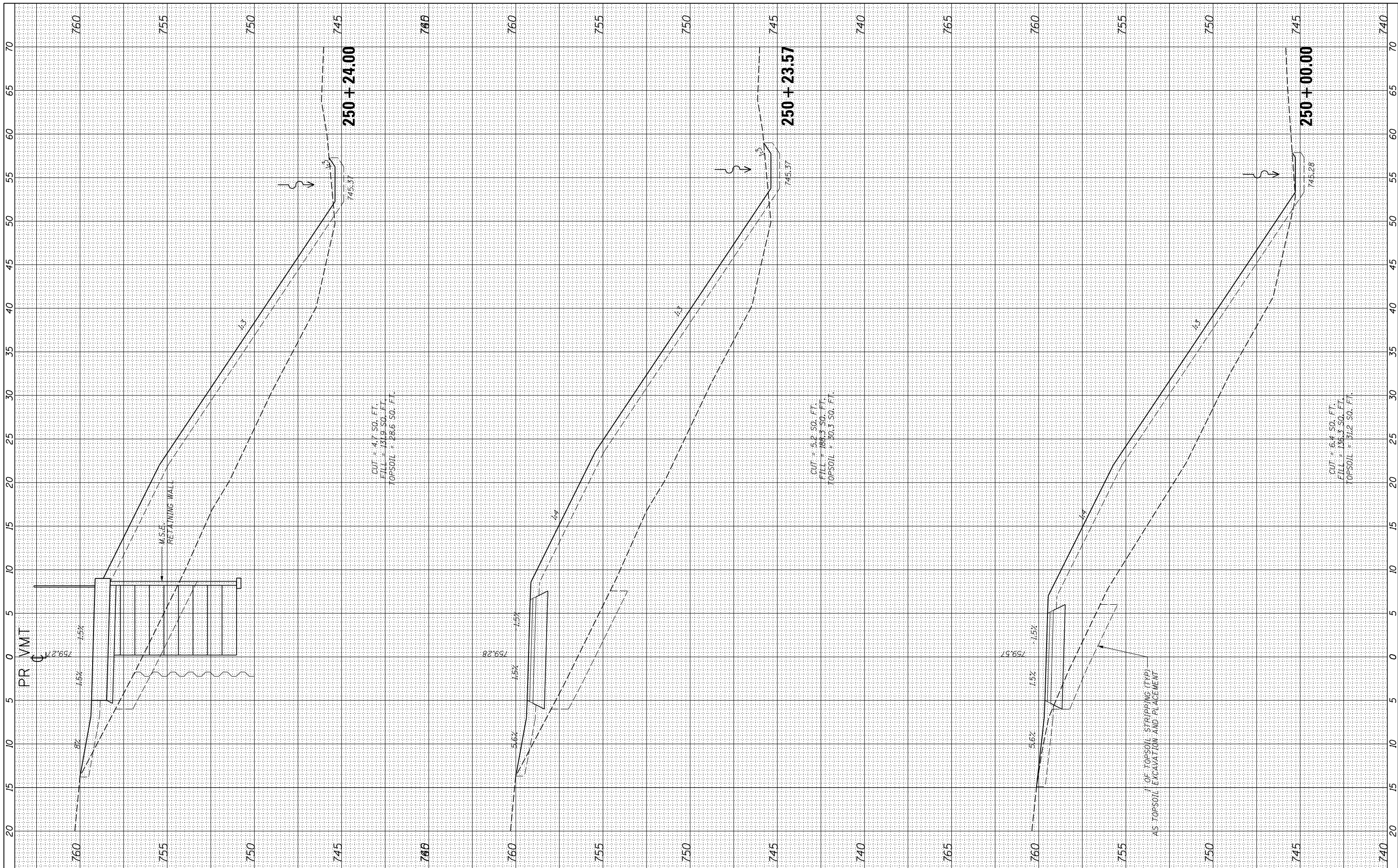
VETERANS MEMORIAL TRAIL
CROSS SECTIONS

SCALE: 10H : 5V SHEET OF SHEETS STA. 248+00.00 TO STA. 249+53.96

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	11-F3001-00-BT	WILL	234	217
			CONTRACT NO. 61674	
ILLINOIS FED. AID PROJECT				

FINAL SURVEY NO.	SURVEYED PLOTTED TEMPLATE AREAS CHECKED	BY	DATE

ORIGINAL SURVEY NO.	SURVEYED PLOTTED TEMPLATE AREAS CHECKED	BY	DATE



USER NAME = ken.moy
 DESIGNED - KLM
 DRAWN - KJB
 CHECKED - BMC
 DATE - 2/09/2021

REVISIONS:
 REVISED -
 REVISED -
 REVISED -
 REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

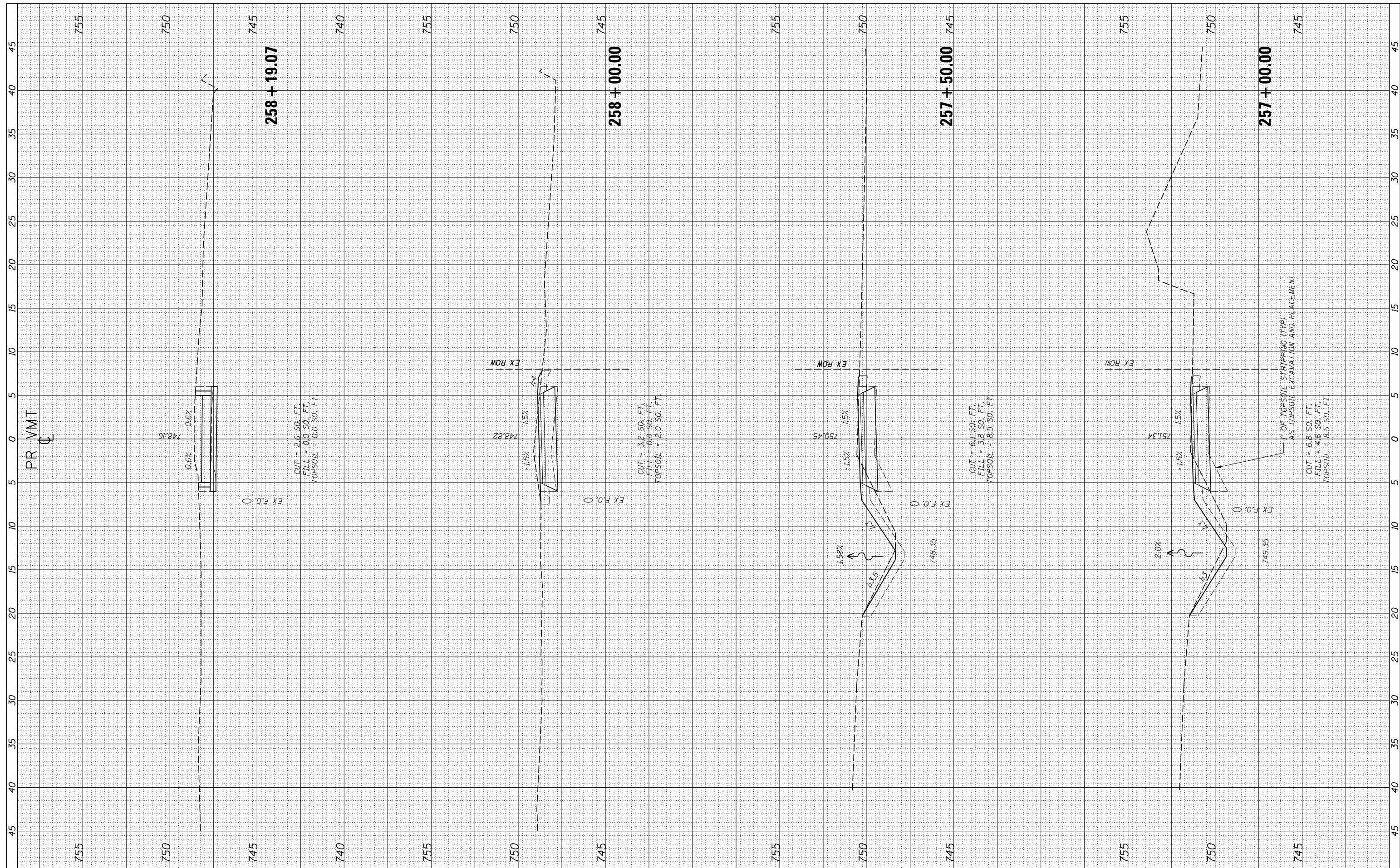
VETERANS MEMORIAL TRAIL
 CROSS SECTIONS

SCALE: 10H : 5V SHEET OF SHEETS STA. 250+00.00 TO STA. 250+24.00

F.A. RTÉ.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	11-F3001-00-BT	WILL	234	218
CONTRACT NO. 61674				
ILLINOIS FED. AID PROJECT				

FINAL SURVEY NO.	SURVEYED PLOTTED TEMPLATE AREAS CHECKED	BY	DATE

ORIGINAL SURVEY NO.	SURVEYED PLOTTED TEMPLATE AREAS CHECKED	BY	DATE



USER NAME = ken.moy	DESIGNED - KLM	REVISED -
PLOT SCALE = 10.0000' / in.	DRAWN - KJB	REVISED -
PLOT DATE = 2/8/2021	CHECKED - BMC	REVISED -
	DATE - 2/09/2021	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

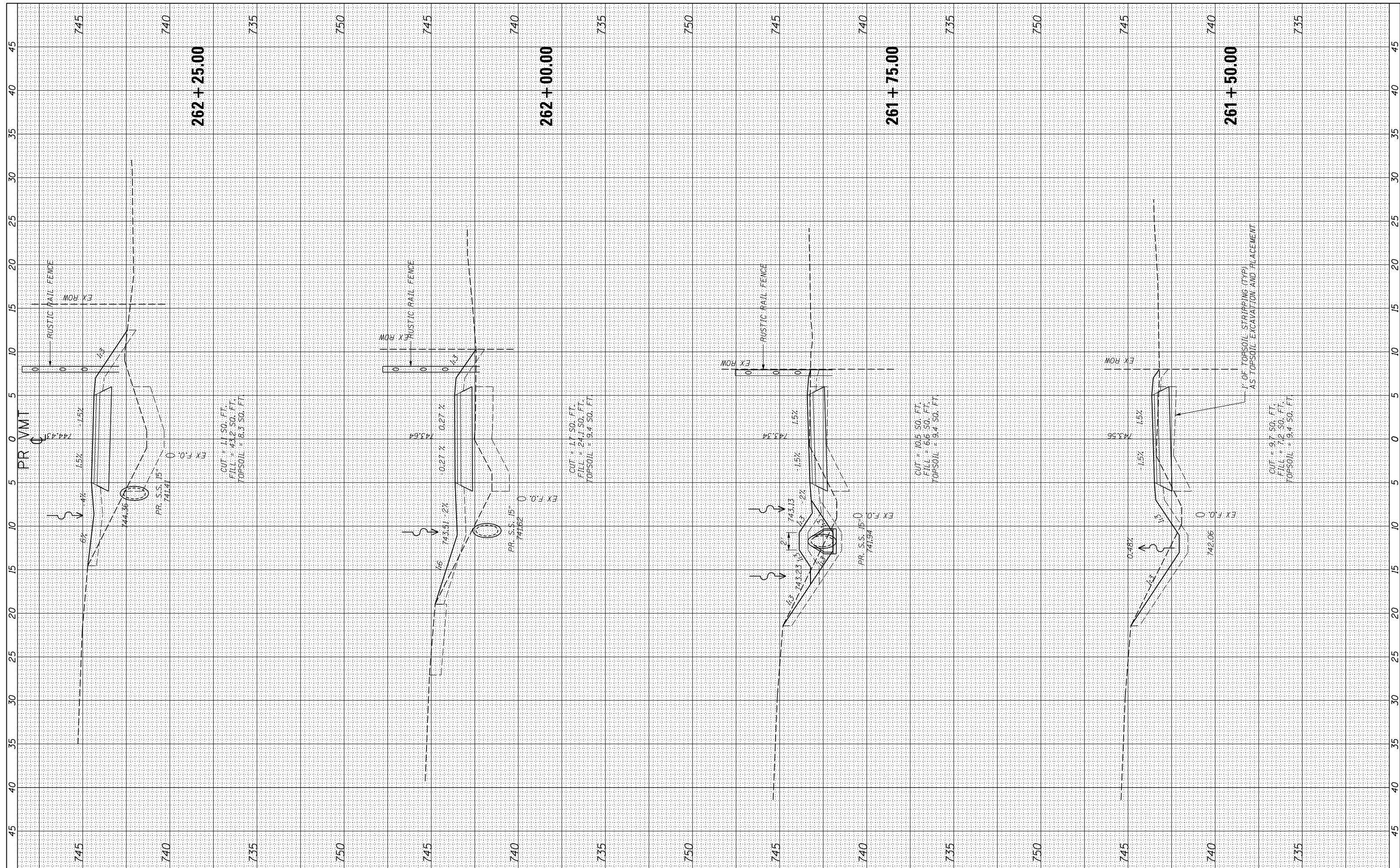
VETERANS MEMORIAL TRAIL
 CROSS SECTIONS

SCALE: 10H : 5V SHEET OF SHEETS STA. 257+00.00 TO STA. 258+19.07

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	11-F3001-00-BT	WILL	234	222
			CONTRACT NO. 61674	
ILLINOIS FED. AID PROJECT				

FINAL SURVEY	SURVEYED	BY	DATE
NO.	PLOTTED		
	TEMPLATE		
	AREAS		
	CHECKED		

ORIGINAL SURVEY	SURVEYED	BY	DATE
NO.	PLOTTED		
	TEMPLATE		
	AREAS		
	CHECKED		



USER NAME = ken.moy
 PLOT SCALE = 10.0000' / in.
 PLOT DATE = 2/8/2021

DESIGNED - KLM
 DRAWN - KJB
 CHECKED - BMC
 DATE - 2/09/2021

REVISED -
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 REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

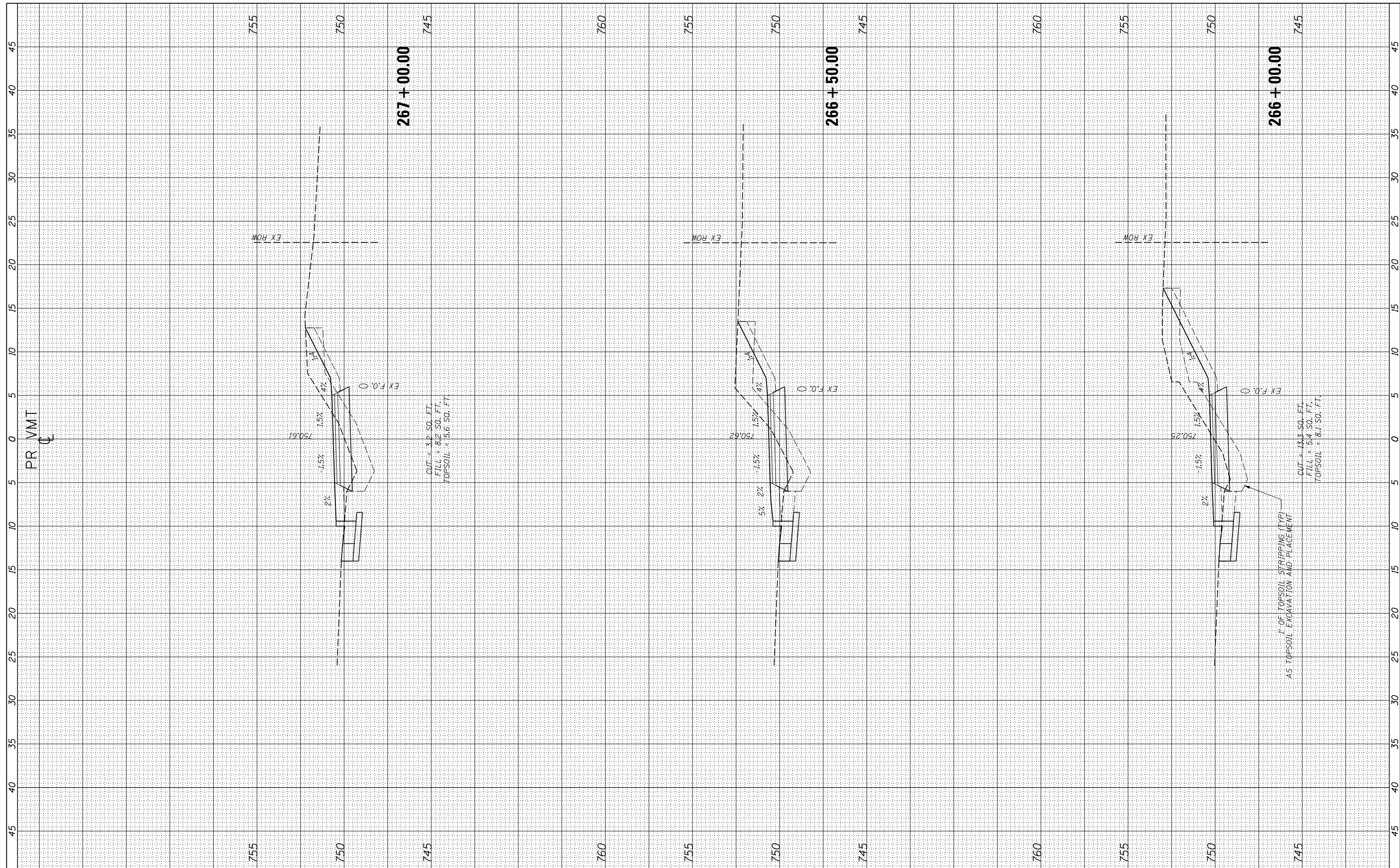
VETERANS MEMORIAL TRAIL
 CROSS SECTIONS

SCALE: 10H : 5V SHEET OF SHEETS STA. 261+50.00 TO STA. 262+25.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	11-F3001-00-BT	WILL	234	224
				CONTRACT NO. 61674
ILLINOIS FED. AID PROJECT				

FINAL SURVEY NO.	SURVEYED PLOTTED TEMPLATE AREAS CHECKED	BY	DATE

ORIGINAL SURVEY NO.	SURVEYED PLOTTED TEMPLATE AREAS CHECKED	BY	DATE



USER NAME = ken.moy
 PLOT SCALE = 10.0000' / in.
 PLOT DATE = 2/8/2021

DESIGNED - KLM
 DRAWN - KJB
 CHECKED - BMC
 DATE - 2/09/2021

REVISED -
 REVISED -
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 REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

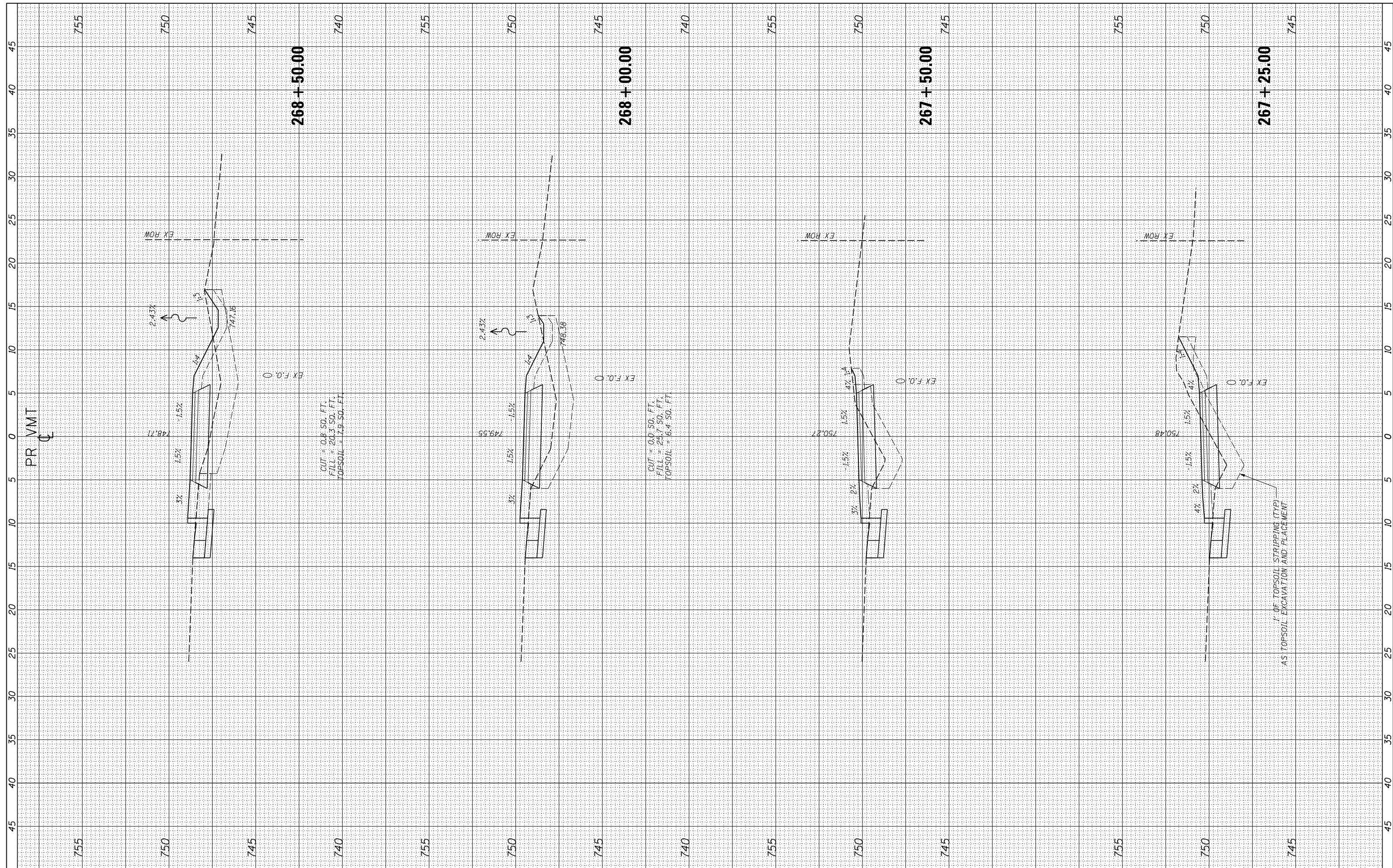
VETERANS MEMORIAL TRAIL
 CROSS SECTIONS

SCALE: 10H : 5V SHEET OF SHEETS STA. 266+00.00 TO STA. 267+00.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	11-F3001-00-BT	WILL	234	228
			CONTRACT NO. 61674	
ILLINOIS FED. AID PROJECT				

FINAL SURVEY NO.	SURVEYED PLOTTED TEMPLATE AREAS CHECKED	BY	DATE

ORIGINAL SURVEY NO.	SURVEYED PLOTTED TEMPLATE AREAS CHECKED	BY	DATE



USER NAME = ken.moy
 PLOT SCALE = 10.0000' / in.
 PLOT DATE = 2/8/2021

DESIGNED - KLM
 DRAWN - KJB
 CHECKED - BMC
 DATE - 2/09/2021

REVISED -
 REVISED -
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STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

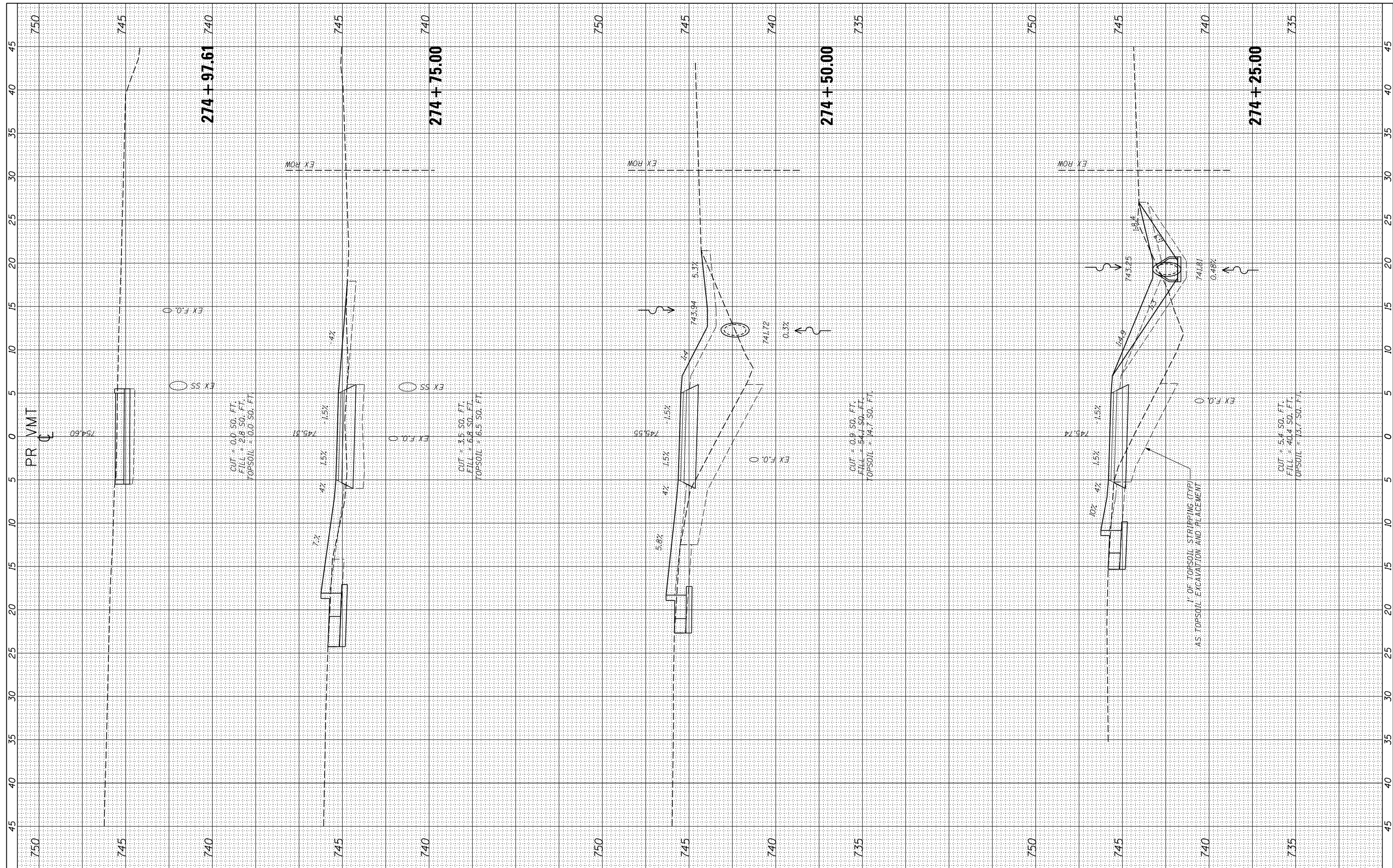
VETERANS MEMORIAL TRAIL
 CROSS SECTIONS

SCALE: 10H : 5V SHEET OF SHEETS STA. 267+25.00 TO STA. 268+50.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	11-F3001-00-BT	WILL	234	229
			CONTRACT NO. 61674	
ILLINOIS FED. AID PROJECT				

FINAL SURVEY	SURVEYED	BY	DATE
NO.	NO.		
NOTE BOOK		PLATE	
AREAS		CHECKED	

ORIGINAL SURVEY	SURVEYED	BY	DATE
NO.	NO.		
NOTE BOOK		PLATE	
AREAS		CHECKED	



USER NAME: ken.moy
 PLOT SCALE: 10.0000' / in.
 PLOT DATE: 2/8/2021

DESIGNED - KLM
 DRAWN - KJB
 CHECKED - BMC
 DATE - 2/09/2021

REVISED -
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 REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

**VETERANS MEMORIAL TRAIL
 CROSS SECTIONS**

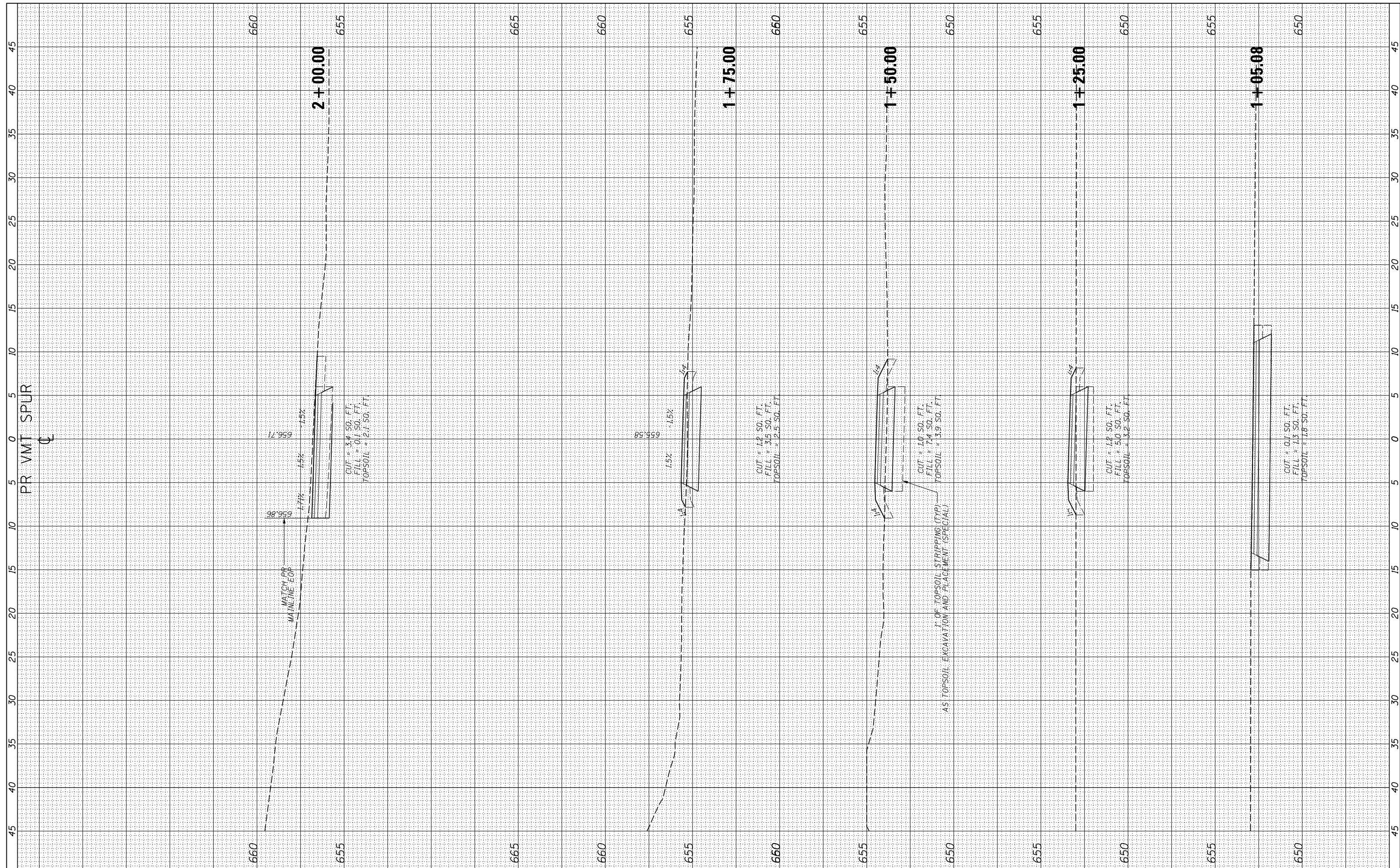
SCALE: 10H : 5V SHEET OF SHEETS STA. 274+25.00 TO STA 274+97.61

F.A. RTE.	SECTION	COUNTY	TOTAL SHEET NO.
	11-F3001-00-BT	WILL	234
			233
			CONTRACT NO. 61674

ILLINOIS AID PROJECT

FINAL SURVEY NO.	SURVEYED PLOTTED	DATE
NOTE BOOK	TEMPLATE	
AREAS CHECKED	AREAS CHECKED	

ORIGINAL SURVEY NO.	SURVEYED PLOTTED	DATE
NOTE BOOK	TEMPLATE	
AREAS CHECKED	AREAS CHECKED	



USER NAME = ken.moy
 PLOT SCALE = 10.0000' / in.
 PLOT DATE = 2/8/2021

DESIGNED - KLM
 DRAWN - KJB
 CHECKED - BMC
 DATE - 2/09/2021

REVISED -
 REVISED -
 REVISED -
 REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**VETERANS MEMORIAL TRAIL
 CROSS SECTIONS**

SCALE: 10H : 5V SHEET OF SHEETS STA. 1+05.08 TO STA. 2+00.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	11-F3001-00-BT	WILL	234	234
CONTRACT NO. 61674				
ILLINOIS FED. AID PROJECT				