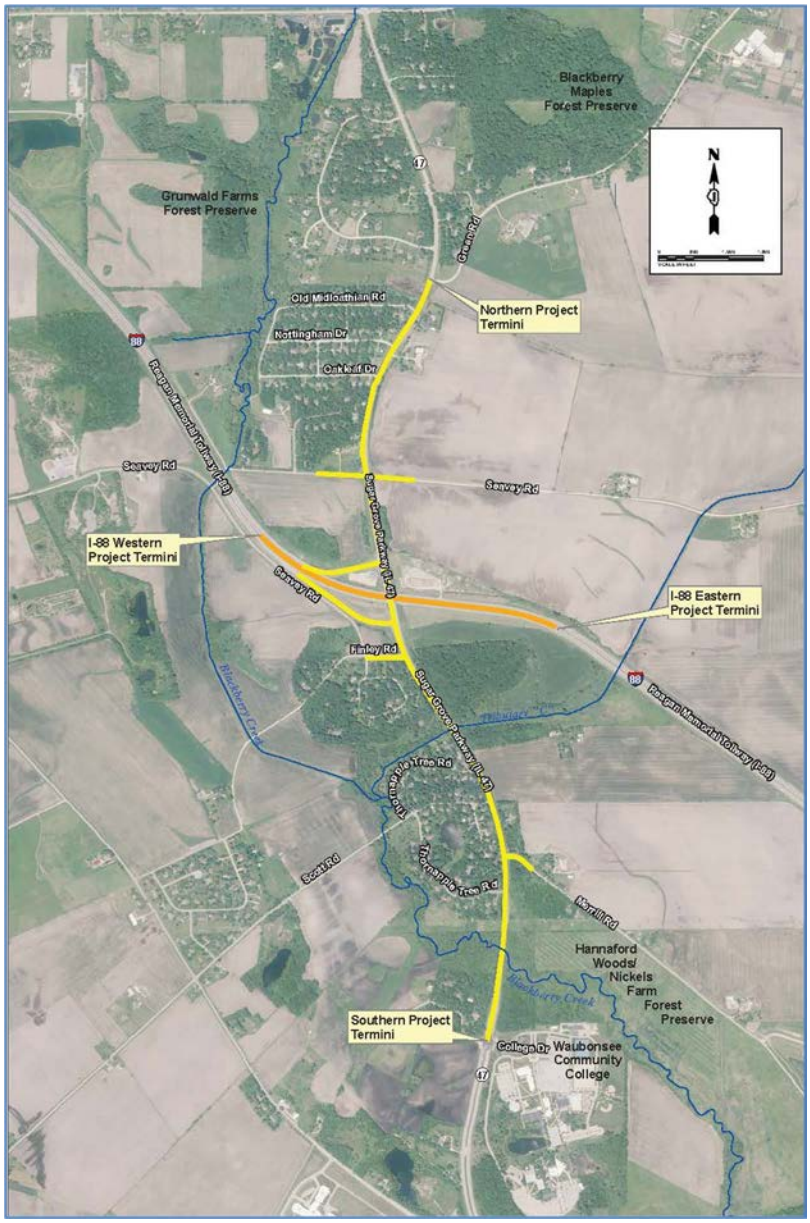
Illinois Department of Transportation

COMBINED DESIGN REPORT

Volume 2 of 3
Engineering Design

FAP 326 (IL Route 47) at FAI 88 (Reagan Memorial Tollway) Interchange Improvements



P-91-015-14
Kane County, Illinois

IDOT – Division of Highways – District One
OCTOBER 2018

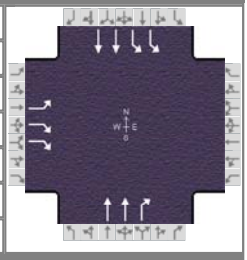
Engineering Design Documents

E-1: Traffic Diagrams
E-2: Geometric Study:
- Alignments
- Typical Sections
- Plan & Profiles
- Truck Turning movements
- Cross sections

E-3: Intersection Design Studies
E-4: Design Exception Forms

HCS7 Signalized Intersection Input Data

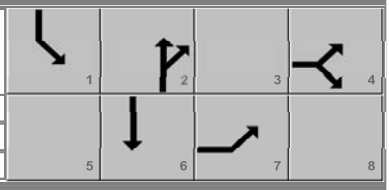
General Information				Intersection Information	
Agency	Kimley-Horn			Duration, h	0.25
Analyst	KAS	Analysis Date	Dec 19, 2016	Area Type	Other
Jurisdiction	IDOT	Time Period	AM Peak	PHF	0.95
Urban Street	IL-47	Analysis Year	2040	Analysis Period	1> 7:00
Intersection	I-88 EB Ramps	File Name	2040 AM - IL 47 & I-88 EB Ramps_Revised.xus		
Project Description	168279001 I-88 & IL-47 Phase 1 - Sugar Grove				



Demand Information	EB			WB			NB			SB		
Approach Movement	L	T	R	L	T	R	L	T	R	L	T	R
Demand (*v*), veh/h	141		280					1080	383	270	983	

Signal Information			
Cycle, s	120.0	Reference Phase	2
Offset, s	0	Reference Point	Begin
Uncoordinated	No	Simult. Gap E/W	On
Force Mode	Fixed	Simult. Gap N/S	On

Green	15.0	70.9	17.6	0.0	0.0	0.0
Yellow	3.5	4.5	4.5	0.0	0.0	0.0
Red	1.0	1.5	1.5	0.0	0.0	0.0



Traffic Information	EB			WB			NB			SB		
Approach Movement	L	T	R	L	T	R	L	T	R	L	T	R
Demand (*v*), veh/h	141		280					1080	383	270	983	
Initial Queue (Q_b), veh/h	0		0					0	0	0	0	
Base Saturation Flow Rate (s_o), veh/h	1900		1900					2000	1900	1900	2000	
Parking (N_m), man/h		None						None			None	
Heavy Vehicles (P_{HV}), %	17		6					12	12	14	14	
Ped / Bike / RTOR, /h	0	0		0	0		0	0	0	0	0	
Buses (N_b), buses/h	0	0	0				0	0	0	0	0	0
Arrival Type (*AT*)	3		3					4	3	3	4	
Upstream Filtering (*I*)	1.00		1.00					1.00	1.00	1.00	1.00	
Lane Width (*W*), ft	12.0		12.0					12.0	12.0	12.0	12.0	
Turn Bay Length, ft	0		290					0	295	315	0	
Grade (*Pg*), %		0			0			0			0	
Speed Limit, mi/h	35		35					55	55	55	55	

Phase Information	EBL	EBT	WBL	WBT	NBL	NBT	SBL	SBT
Maximum Green (G_{max}) or Phase Split, s	35.0	35.0				65.0	20.0	85.0
Yellow Change Interval (*Y*), s	4.5	4.5				4.5	3.5	4.5
Red Clearance Interval (R_c), s	1.5	1.5				1.5	1.0	1.5
Minimum Green (G_{min}), s	8	8				15	15	15
Start-Up Lost Time (*lt*), s	2.0					2.0	2.0	2.0
Extension of Effective Green (*e*), s	2.0					2.0	2.0	2.0
Passage (*PT*), s	2.0	5.0				7.0	3.0	7.0
Recall Mode	Off	Off				Min	Off	Min
Dual Entry	Yes	Yes				Yes	Yes	Yes
Walk (*Walk*), s	0.0					7.0	0.0	0.0
Pedestrian Clearance Time (*PC*), s	0.0					18.0	0.0	0.0

Multimodal Information	EB			WB			NB			SB		
85th % Speed / Rest in Walk / Corner Radius	0	No	25				0	No	25	0	No	25
Walkway / Crosswalk Width / Length, ft	9.0	12	0				9.0	12	0	9.0	12	0
Street Width / Island / Curb	0	0	No				0	0	No	0	0	No
Width Outside / Bike Lane / Shoulder, ft	12	5.0	2.0				12	5.0	2.0	12	5.0	2.0
Pedestrian Signal / Occupied Parking	No	0.50					No	0.50		No	0.50	

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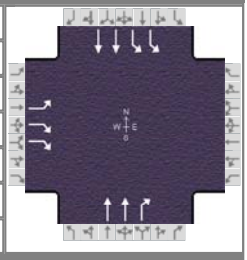
HCS7 Signalized Intersection Results Summary

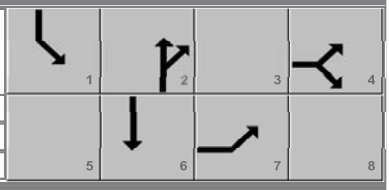
General Information				Intersection Information	
Agency	Kimley-Horn			Duration, h	0.25
Analyst	KAS	Analysis Date	Dec 19, 2016	Area Type	Other
Jurisdiction	IDOT	Time Period	AM Peak	PHF	0.95
Urban Street	IL-47	Analysis Year	2040	Analysis Period	1> 7:00
Intersection	I-88 EB Ramps	File Name	2040 AM - IL 47 & I-88 EB Ramps_Revised.xus		
Project Description	168279001 I-88 & IL-47 Phase 1 - Sugar Grove				



Demand Information	EB			WB			NB			SB		
Approach Movement	L	T	R	L	T	R	L	T	R	L	T	R
Demand (v), veh/h	141		280					1080	383	270	983	

Signal Information			
Cycle, s	120.0	Reference Phase	2
Offset, s	0	Reference Point	Begin
Uncoordinated	No	Simult. Gap E/W	On
Force Mode	Fixed	Simult. Gap N/S	On

Green	15.0	70.9	17.6	0.0	0.0	0.0
Yellow	3.5	4.5	4.5	0.0	0.0	0.0
Red	1.0	1.5	1.5	0.0	0.0	0.0



Timer Results	EBL	EBT	WBL	WBT	NBL	NBT	SBL	SBT
Assigned Phase		4				2	1	6
Case Number		9.0				7.3	2.0	4.0
Phase Duration, s		23.6				76.9	19.5	96.4
Change Period, ($Y+R_c$), s		6.0				6.0	4.5	6.0
Max Allow Headway (MAH), s		6.2				0.0	3.9	0.0
Queue Clearance Time (g_s), s		14.5					12.5	
Green Extension Time (g_e), s		3.2				0.0	0.9	0.0
Phase Call Probability		1.00					1.00	
Max Out Probability		0.16					0.00	

Movement Group Results	EB			WB			NB			SB		
Approach Movement	L	T	R	L	T	R	L	T	R	L	T	R
Assigned Movement	7		14					2	12	1	6	
Adjusted Flow Rate (v), veh/h	148		295					1137	403	284	1035	
Adjusted Saturation Flow Rate (s), veh/h/ln	1570		1358					1726	1459	1565	1696	
Queue Service Time (g_s), s	10.7		12.5					15.0	18.7	10.5	0.0	
Cycle Queue Clearance Time (g_c), s	10.7		12.5					15.0	18.7	10.5	0.0	
Green Ratio (g/C)	0.15		0.15					0.59	0.59	0.13	0.75	
Capacity (c), veh/h	231		399					2039	862	391	2555	
Volume-to-Capacity Ratio (X)	0.644		0.739					0.558	0.468	0.726	0.405	
Back of Queue (Q), ft/ln (95 th percentile)	228.7		208.9					184.4	267.6	203.6	8.5	
Back of Queue (Q), veh/ln (95 th percentile)	8.1		8.0					6.7	9.8	7.3	0.3	
Queue Storage Ratio (RQ) (95 th percentile)	0.00		0.72					0.00	0.91	0.65	0.00	
Uniform Delay (d_1), s/veh	48.2		49.0					6.8	13.9	50.5	0.0	
Incremental Delay (d_2), s/veh	6.3		5.6					1.1	1.8	2.6	0.5	
Initial Queue Delay (d_3), s/veh	0.0		0.0					0.0	0.0	0.0	0.0	
Control Delay (d), s/veh	54.5		54.6					7.9	15.7	53.1	0.5	
Level of Service (LOS)	D		D					A	B	D	A	
Approach Delay, s/veh / LOS	54.6	D		0.0			10.0	A		11.8	B	
Intersection Delay, s/veh / LOS	16.7						B					

Multimodal Results	EB		WB		NB		SB	
Pedestrian LOS Score / LOS	2.33	B	2.48	B	1.66	B	1.85	B
Bicycle LOS Score / LOS		F			1.76	B	1.58	B

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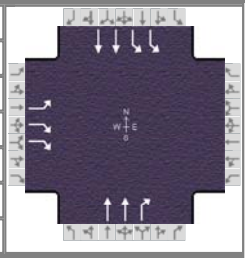
HCS7 Signalized Intersection Intermediate Values

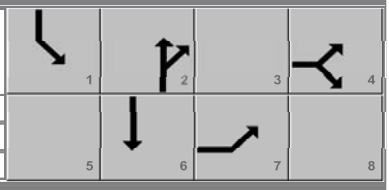
General Information				Intersection Information	
Agency	Kimley-Horn			Duration, h	0.25
Analyst	KAS	Analysis Date	Dec 19, 2016	Area Type	Other
Jurisdiction	IDOT	Time Period	AM Peak	PHF	0.95
Urban Street	IL-47	Analysis Year	2040	Analysis Period	1> 7:00
Intersection	I-88 EB Ramps	File Name	2040 AM - IL 47 & I-88 EB Ramps_Revised.xus		
Project Description	168279001 I-88 & IL-47 Phase 1 - Sugar Grove				



Demand Information	EB			WB			NB			SB		
Approach Movement	L	T	R	L	T	R	L	T	R	L	T	R
Demand (*v*), veh/h	141		280					1080	383	270	983	

Signal Information			
Cycle, s	120.0	Reference Phase	2
Offset, s	0	Reference Point	Begin
Uncoordinated	No	Simult. Gap E/W	On
Force Mode	Fixed	Simult. Gap N/S	On

Green	15.0	70.9	17.6	0.0	0.0	0.0
Yellow	3.5	4.5	4.5	0.0	0.0	0.0
Red	1.0	1.5	1.5	0.0	0.0	0.0



Saturation Flow / Delay	L	T	R	L	T	R	L	T	R	L	T	R
Lane Width Adjustment Factor (f_w)	1.000	1.000	1.000				1.000	1.000	1.000	1.000	1.000	1.000
Heavy Vehicles and Grade Factor (f_{HVg})	0.867	1.000	0.953				1.000	0.906	0.906	0.891	0.891	1.000
Parking Activity Adjustment Factor (f_p)	1.000	1.000	1.000	0.000	0.000	0.000	1.000	1.000	1.000	1.000	1.000	1.000
Bus Blockage Adjustment Factor (f_{bb})	1.000	1.000	1.000	0.000	0.000	0.000	1.000	1.000	1.000	1.000	1.000	1.000
Area Type Adjustment Factor (f_a)	1.000	1.000	1.000				1.000	1.000	1.000	1.000	1.000	1.000
Lane Utilization Adjustment Factor (f_{LU})	1.000	1.000	0.885	1.000	1.000	1.000	1.000	0.952	1.000	0.971	0.952	1.000
Left-Turn Adjustment Factor (f_{LT})	0.952	0.000					1.000	1.000		0.952	0.000	
Right-Turn Adjustment Factor (f_{RT})		0.000	0.847					0.000	0.847		1.000	1.000
Left-Turn Pedestrian Adjustment Factor (f_{Lpb})	1.000						1.000			1.000		
Right-Turn Ped-Bike Adjustment Factor (f_{Rpb})			1.000						1.000			1.000
Work Zone Adjustment Factor (f_{wz})	1.000	1.000	1.000				1.000	1.000	1.000	1.000	1.000	1.000
DDI Factor (f_{DDI})	1.000	1.000	1.000				1.000	1.000	1.000	1.000	1.000	1.000
Movement Saturation Flow Rate (s), veh/h	1570	0	2717				0	3539	1459	3130	3478	0
Proportion of Vehicles Arriving on Green (P)	0.15	0.00	0.15	0.00	0.00	0.00	0.00	0.79	0.59	0.13	1.00	0.00
Incremental Delay Factor (k)	0.23		0.23					0.50	0.50	0.11	0.50	

Signal Timing / Movement Groups	EBL	EBT/R	WBL	WBT/R	NBL	NBT/R	SBL	SBT/R
Lost Time (t_L)		4.0				6.0	4.5	6.0
Green Ratio (g/C)		0.15				0.59	0.13	0.75
Permitted Saturation Flow Rate (s_p), veh/h/ln		1570				554	0	0
Shared Saturation Flow Rate (s_{sh}), veh/h/ln						0		
Permitted Effective Green Time (g_p), s		0.0				0.0	0.0	0.0
Permitted Service Time (g_u), s		0.0				0.0	0.0	0.0
Permitted Queue Service Time (g_{ps}), s								
Time to First Blockage (g_f), s		0.0				70.9	0.0	0.0
Queue Service Time Before Blockage (g_{fs}), s								
Protected Right Saturation Flow (s_R), veh/h/ln		0				0		
Protected Right Effective Green Time (g_R), s		0.0				0.0		

Multimodal	EB		WB		NB		SB	
Pedestrian F_w / F_v	1.557	0.000	1.710	0.000	0.972	0.000	1.198	0.000
Pedestrian F_s / F_{delay}	0.000	0.169	0.000	0.167	0.000	0.093	0.000	0.052
Pedestrian M_{corner} / M_{cw}								
Bicycle c_b / d_b		67.20	-83.33	65.10	1181.29	10.05	1506.29	3.66
Bicycle F_w / F_v	-3.64		-3.64		-3.64	1.27	-3.64	1.09

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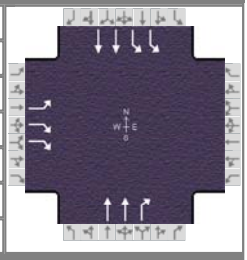
HCS7 Signalized Intersection Results Graphical Summary

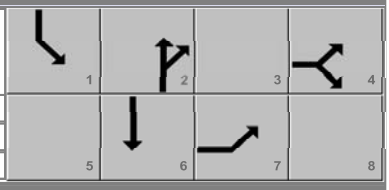
General Information				Intersection Information	
Agency	Kimley-Horn			Duration, h	0.25
Analyst	KAS	Analysis Date	Dec 19, 2016	Area Type	Other
Jurisdiction	IDOT	Time Period	AM Peak	PHF	0.95
Urban Street	IL-47	Analysis Year	2040	Analysis Period	1> 7:00
Intersection	I-88 EB Ramps	File Name	2040 AM - IL 47 & I-88 EB Ramps_Revised.xus		
Project Description	168279001 I-88 & IL-47 Phase 1 - Sugar Grove				



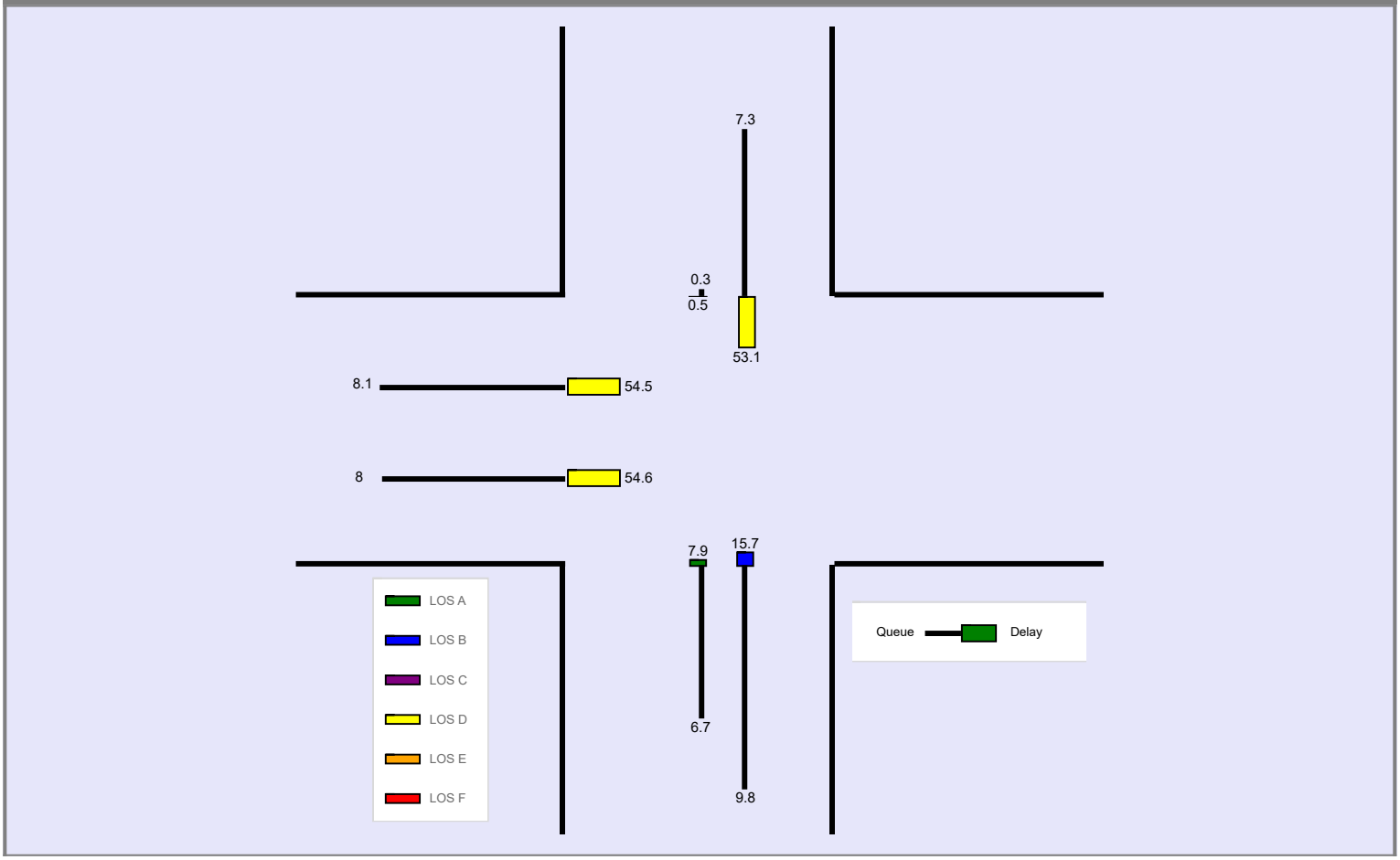
Demand Information	EB			WB			NB			SB		
Approach Movement	L	T	R	L	T	R	L	T	R	L	T	R
Demand (*v*), veh/h	141		280					1080	383	270	983	

Signal Information			
Cycle, s	120.0	Reference Phase	2
Offset, s	0	Reference Point	Begin
Uncoordinated	No	Simult. Gap E/W	On
Force Mode	Fixed	Simult. Gap N/S	On

Green	15.0	70.9	17.6	0.0	0.0	0.0
Yellow	3.5	4.5	4.5	0.0	0.0	0.0
Red	1.0	1.5	1.5	0.0	0.0	0.0



Movement Group Results	EB			WB			NB			SB		
Approach Movement	L	T	R	L	T	R	L	T	R	L	T	R
Back of Queue (*Q*), ft/ln (95 th percentile)	228.7		208.9					184.4	267.6	203.6	8.5	
Back of Queue (*Q*), veh/ln (95 th percentile)	8.1		8.0					6.7	9.8	7.3	0.3	
Queue Storage Ratio (*RQ*) (95 th percentile)	0.00		0.72					0.00	0.91	0.65	0.00	
Control Delay (*d*), s/veh	54.5		54.6					7.9	15.7	53.1	0.5	
Level of Service (LOS)	D		D					A	B	D	A	
Approach Delay, s/veh / LOS	54.6		D	0.0			10.0		A	11.8		B
Intersection Delay, s/veh / LOS	16.7						B					



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--- Messages ---

No errors or warnings exist.

--- Comments ---

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HCS7 Signalized Intersection Input Data

General Information				Intersection Information	
Agency	Kimley-Horn			Duration, h	0.25
Analyst	KAS	Analysis Date	Dec 19, 2016	Area Type	Other
Jurisdiction	IDOT	Time Period	PM Peak	PHF	0.95
Urban Street	IL-47	Analysis Year	2040	Analysis Period	1> 7:00
Intersection	I-88 EB Ramps	File Name	2040 PM - IL 47 & I-88 EB Ramps_Revised.xus		
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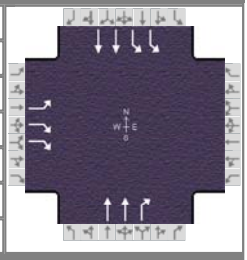
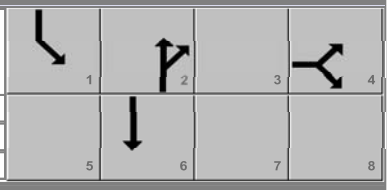


Demand Information	EB			WB			NB			SB		
Approach Movement	L	T	R	L	T	R	L	T	R	L	T	R
Demand (*v*), veh/h	127		400					1124	234	185	868	

Signal Information			
Cycle, s	120.0	Reference Phase	2
Offset, s	0	Reference Point	Begin
Uncoordinated	No	Simult. Gap E/W	On
Force Mode	Fixed	Simult. Gap N/S	On

Green	12.0	67.6	23.9	0.0	0.0	0.0
Yellow	3.5	4.5	4.5	0.0	0.0	0.0
Red	1.0	1.5	1.5	0.0	0.0	0.0



Traffic Information	EB			WB			NB			SB		
Approach Movement	L	T	R	L	T	R	L	T	R	L	T	R
Demand (*v*), veh/h	127		400					1124	234	185	868	
Initial Queue (Q_b), veh/h	0		0					0	0	0	0	
Base Saturation Flow Rate (s_o), veh/h	1900		1900					2000	1900	1900	2000	
Parking (N_m), man/h		None						None			None	
Heavy Vehicles (P_{HV}), %	5		7					6	6	4	4	
Ped / Bike / RTOR, /h	0	0		0	0		0	0	0	0	0	
Buses (N_b), buses/h	0	0	0				0	0	0	0	0	0
Arrival Type (*AT*)	3		3					4	3	3	4	
Upstream Filtering (*I*)	1.00		1.00					1.00	1.00	1.00	1.00	
Lane Width (*W*), ft	12.0		12.0					12.0	12.0	12.0	12.0	
Turn Bay Length, ft	0		290					0	295	315	0	
Grade (*Pg*), %		0			0			0			0	
Speed Limit, mi/h	35		35					55	55	55	55	

Phase Information	EBL	EBT	WBL	WBT	NBL	NBT	SBL	SBT
Maximum Green (G_{max}) or Phase Split, s		40.0				60.0	20.0	80.0
Yellow Change Interval (*Y*), s		4.5				4.5	3.5	4.5
Red Clearance Interval (R_c), s		1.5				1.5	1.0	1.5
Minimum Green (G_{min}), s		8				15	12	15
Start-Up Lost Time (*lt*), s	2.0					2.0	2.0	2.0
Extension of Effective Green (*e*), s	2.0					2.0	2.0	2.0
Passage (*PT*), s		5.0				7.0	3.0	7.0
Recall Mode		Off				Min	Off	Min
Dual Entry		Yes				Yes	Yes	Yes
Walk (*Walk*), s	0.0					7.0	0.0	0.0
Pedestrian Clearance Time (*PC*), s	0.0					18.0	0.0	0.0

Multimodal Information	EB			WB			NB			SB		
85th % Speed / Rest in Walk / Corner Radius	0	No	25				0	No	25	0	No	25
Walkway / Crosswalk Width / Length, ft	9.0	12	0				9.0	12	0	9.0	12	0
Street Width / Island / Curb	0	0	No				0	0	No	0	0	No
Width Outside / Bike Lane / Shoulder, ft	12	5.0	2.0				12	5.0	2.0	12	5.0	2.0
Pedestrian Signal / Occupied Parking	No	0.50					No	0.50		No	0.50	

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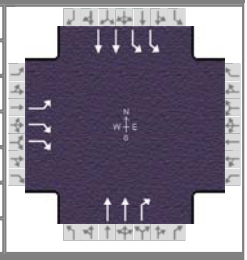
HCS7 Signalized Intersection Results Summary

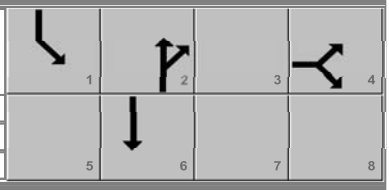
General Information				Intersection Information	
Agency	Kimley-Horn			Duration, h	0.25
Analyst	KAS	Analysis Date	Dec 19, 2016	Area Type	Other
Jurisdiction	IDOT	Time Period	PM Peak	PHF	0.95
Urban Street	IL-47	Analysis Year	2040	Analysis Period	1> 7:00
Intersection	I-88 EB Ramps	File Name	2040 PM - IL 47 & I-88 EB Ramps_Revised.xus		
Project Description	168279001 I-88 & IL-47 Phase 1 - Sugar Grove				



Demand Information	EB			WB			NB			SB		
Approach Movement	L	T	R	L	T	R	L	T	R	L	T	R
Demand (v), veh/h	127		400					1124	234	185	868	

Signal Information			
Cycle, s	120.0	Reference Phase	2
Offset, s	0	Reference Point	Begin
Uncoordinated	No	Simult. Gap E/W	On
Force Mode	Fixed	Simult. Gap N/S	On

Green	12.0	67.6	23.9	0.0	0.0	0.0
Yellow	3.5	4.5	4.5	0.0	0.0	0.0
Red	1.0	1.5	1.5	0.0	0.0	0.0



Timer Results	EBL	EBT	WBL	WBT	NBL	NBT	SBL	SBT
Assigned Phase		4				2	1	6
Case Number		9.0				7.3	2.0	4.0
Phase Duration, s		29.9				73.6	16.5	90.1
Change Period, ($Y+R_c$), s		6.0				6.0	4.5	6.0
Max Allow Headway (MAH), s		6.2				0.0	3.9	0.0
Queue Clearance Time (g_s), s		19.8					8.6	
Green Extension Time (g_e), s		4.0				0.0	0.6	0.0
Phase Call Probability		1.00					1.00	
Max Out Probability		0.25					0.00	

Movement Group Results	EB			WB			NB			SB		
Approach Movement	L	T	R	L	T	R	L	T	R	L	T	R
Assigned Movement	7		14					2	12	1	6	
Adjusted Flow Rate (v), veh/h	134		421					1183	246	195	914	
Adjusted Saturation Flow Rate (s), veh/h/ln	1739		1347					1815	1535	1702	1845	
Queue Service Time (g_s), s	8.0		17.8					17.2	10.0	6.6	2.9	
Cycle Queue Clearance Time (g_c), s	8.0		17.8					17.2	10.0	6.6	2.9	
Green Ratio (g/C)	0.20		0.20					0.56	0.56	0.10	0.70	
Capacity (c), veh/h	346		536					2046	865	340	2587	
Volume-to-Capacity Ratio (X)	0.387		0.786					0.578	0.285	0.572	0.353	
Back of Queue (Q), ft/ln (95 th percentile)	166.7		276.3					216	155.2	127.9	35.3	
Back of Queue (Q), veh/ln (95 th percentile)	6.4		10.5					8.2	5.9	5.0	1.4	
Queue Storage Ratio (RQ) (95 th percentile)	0.00		0.95					0.00	0.53	0.41	0.00	
Uniform Delay (d_1), s/veh	41.7		45.6					8.6	13.6	51.5	1.3	
Incremental Delay (d_2), s/veh	1.5		6.0					1.2	0.8	1.5	0.4	
Initial Queue Delay (d_3), s/veh	0.0		0.0					0.0	0.0	0.0	0.0	
Control Delay (d), s/veh	43.2		51.7					9.8	14.4	53.1	1.6	
Level of Service (LOS)	D		D					A	B	D	A	
Approach Delay, s/veh / LOS	49.6	D		0.0			10.6	B		10.7	B	
Intersection Delay, s/veh / LOS	17.6						B					

Multimodal Results	EB		WB		NB		SB	
Pedestrian LOS Score / LOS	2.33	B	2.48	B	1.67	B	1.86	B
Bicycle LOS Score / LOS		F			1.67	B	1.40	A

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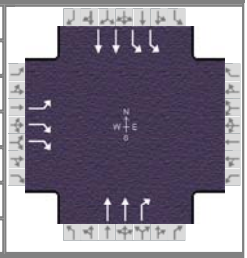
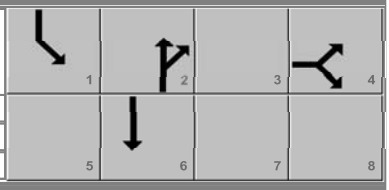
HCS7 Signalized Intersection Intermediate Values

General Information				Intersection Information	
Agency	Kimley-Horn			Duration, h	0.25
Analyst	KAS	Analysis Date	Dec 19, 2016	Area Type	Other
Jurisdiction	IDOT	Time Period	PM Peak	PHF	0.95
Urban Street	IL-47	Analysis Year	2040	Analysis Period	1> 7:00
Intersection	I-88 EB Ramps	File Name	2040 PM - IL 47 & I-88 EB Ramps_Revised.xus		
Project Description	168279001 I-88 & IL-47 Phase 1 - Sugar Grove				



Demand Information	EB			WB			NB			SB		
Approach Movement	L	T	R	L	T	R	L	T	R	L	T	R
Demand (v), veh/h	127		400					1124	234	185	868	

Signal Information												
Cycle, s	120.0	Reference Phase	2									
Offset, s	0	Reference Point	Begin	Green	12.0	67.6	23.9	0.0	0.0	0.0		
Uncoordinated	No	Simult. Gap E/W	On	Yellow	3.5	4.5	4.5	0.0	0.0	0.0		
Force Mode	Fixed	Simult. Gap N/S	On	Red	1.0	1.5	1.5	0.0	0.0	0.0		



Saturation Flow / Delay	L	T	R	L	T	R	L	T	R	L	T	R
Lane Width Adjustment Factor (f_w)	1.000	1.000	1.000				1.000	1.000	1.000	1.000	1.000	1.000
Heavy Vehicles and Grade Factor (f_{HVg})	0.961	1.000	0.945				1.000	0.953	0.953	0.969	0.969	1.000
Parking Activity Adjustment Factor (f_p)	1.000	1.000	1.000	0.000	0.000	0.000	1.000	1.000	1.000	1.000	1.000	1.000
Bus Blockage Adjustment Factor (f_{bb})	1.000	1.000	1.000	0.000	0.000	0.000	1.000	1.000	1.000	1.000	1.000	1.000
Area Type Adjustment Factor (f_a)	1.000	1.000	1.000				1.000	1.000	1.000	1.000	1.000	1.000
Lane Utilization Adjustment Factor (f_{LU})	1.000	1.000	0.885	1.000	1.000	1.000	1.000	0.952	1.000	0.971	0.952	1.000
Left-Turn Adjustment Factor (f_{LT})	0.952	0.000					1.000	1.000		0.952	0.000	
Right-Turn Adjustment Factor (f_{RT})		0.000	0.847					0.000	0.847		1.000	1.000
Left-Turn Pedestrian Adjustment Factor (f_{Lpb})	1.000						1.000			1.000		
Right-Turn Ped-Bike Adjustment Factor (f_{Rpb})			1.000						1.000			1.000
Work Zone Adjustment Factor (f_{wz})	1.000	1.000	1.000				1.000	1.000	1.000	1.000	1.000	1.000
DDI Factor (f_{DDI})	1.000	1.000	1.000				1.000	1.000	1.000	1.000	1.000	1.000
Movement Saturation Flow Rate (s), veh/h	1739	0	2694				0	3721	1535	3404	3782	0
Proportion of Vehicles Arriving on Green (P)	0.20	0.00	0.20	0.00	0.00	0.00	0.00	0.75	0.56	0.10	0.93	0.00
Incremental Delay Factor (k)	0.23		0.26					0.50	0.50	0.11	0.50	

Signal Timing / Movement Groups	EBL	EBT/R	WBL	WBT/R	NBL	NBT/R	SBL	SBT/R
Lost Time (t_L)		4.0				6.0	4.5	6.0
Green Ratio (g/C)		0.20				0.56	0.10	0.70
Permitted Saturation Flow Rate (s_p), veh/h/ln		1739				621	0	0
Shared Saturation Flow Rate (s_{sh}), veh/h/ln						0		
Permitted Effective Green Time (g_p), s		0.0				0.0	0.0	0.0
Permitted Service Time (g_u), s		0.0				0.0	0.0	0.0
Permitted Queue Service Time (g_{ps}), s								
Time to First Blockage (g_f), s		0.0				67.6	0.0	0.0
Queue Service Time Before Blockage (g_{fs}), s								
Protected Right Saturation Flow (s_R), veh/h/ln		0				0		
Protected Right Effective Green Time (g_R), s		0.0				0.0		

Multimodal	EB		WB		NB		SB	
Pedestrian F_w / F_v	1.557	0.000	1.710	0.000	0.972	0.000	1.198	0.000
Pedestrian F_s / F_{delay}	0.000	0.169	0.000	0.167	0.000	0.098	0.000	0.067
Pedestrian M_{corner} / M_{cw}								
Bicycle c_b / d_b		67.20	-83.33	65.10	1127.40	11.42	1402.40	5.36
Bicycle F_w / F_v	-3.64		-3.64		-3.64	1.18	-3.64	0.91

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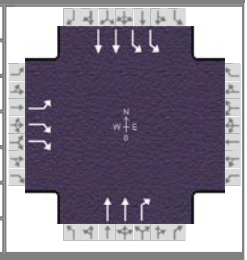
HCS7 Signalized Intersection Results Graphical Summary

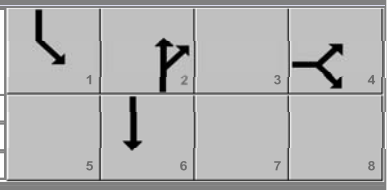
General Information				Intersection Information	
Agency	Kimley-Horn			Duration, h	0.25
Analyst	KAS	Analysis Date	Dec 19, 2016	Area Type	Other
Jurisdiction	IDOT	Time Period	PM Peak	PHF	0.95
Urban Street	IL-47	Analysis Year	2040	Analysis Period	1> 7:00
Intersection	I-88 EB Ramps	File Name	2040 PM - IL 47 & I-88 EB Ramps_Revised.xus		
Project Description	168279001 I-88 & IL-47 Phase 1 - Sugar Grove				



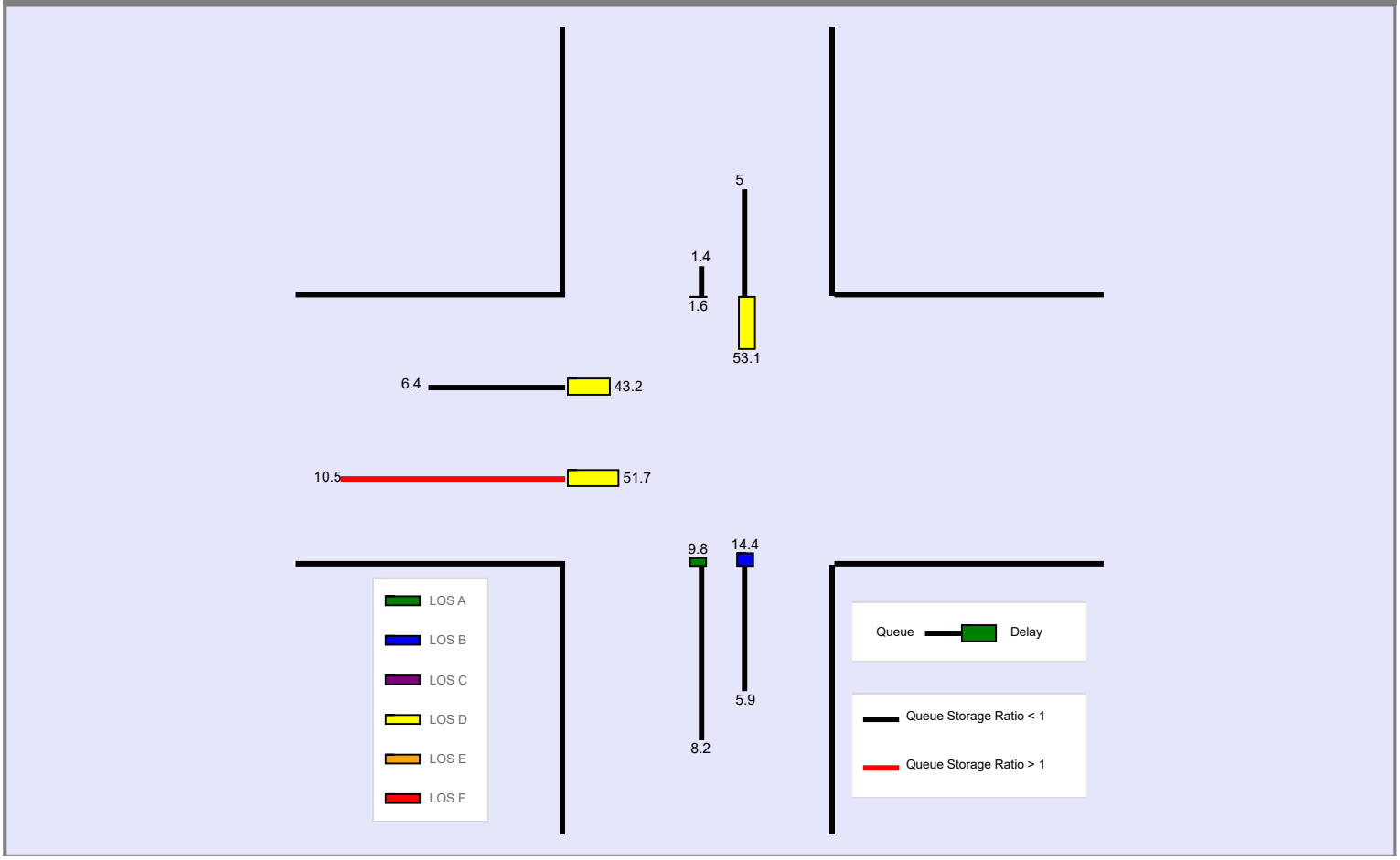
Demand Information	EB			WB			NB			SB		
Approach Movement	L	T	R	L	T	R	L	T	R	L	T	R
Demand (*v*), veh/h	127		400					1124	234	185	868	

Signal Information			
Cycle, s	120.0	Reference Phase	2
Offset, s	0	Reference Point	Begin
Uncoordinated	No	Simult. Gap E/W	On
Force Mode	Fixed	Simult. Gap N/S	On

Green	12.0	67.6	23.9	0.0	0.0	0.0
Yellow	3.5	4.5	4.5	0.0	0.0	0.0
Red	1.0	1.5	1.5	0.0	0.0	0.0



Movement Group Results	EB			WB			NB			SB		
Approach Movement	L	T	R	L	T	R	L	T	R	L	T	R
Back of Queue (*Q*), ft/ln (95 th percentile)	166.7		276.3					216	155.2	127.9	35.3	
Back of Queue (*Q*), veh/ln (95 th percentile)	6.4		10.5					8.2	5.9	5.0	1.4	
Queue Storage Ratio (*RQ*) (95 th percentile)	0.00		0.95					0.00	0.53	0.41	0.00	
Control Delay (*d*), s/veh	43.2		51.7					9.8	14.4	53.1	1.6	
Level of Service (LOS)	D		D					A	B	D	A	
Approach Delay, s/veh / LOS	49.6	D		0.0			10.6	B		10.7	B	
Intersection Delay, s/veh / LOS	17.6						B					



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--- Messages ---

No errors or warnings exist.

--- Comments ---

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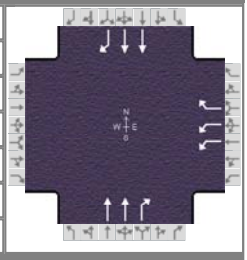
HCS7 Signalized Intersection Input Data

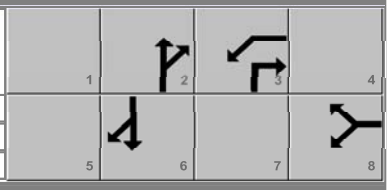
General Information				Intersection Information	
Agency	Kimley-Horn			Duration, h	0.25
Analyst	KAS	Analysis Date	Dec 19, 2016	Area Type	Other
Jurisdiction	IDOT	Time Period	AM Peak	PHF	0.95
Urban Street	IL-47	Analysis Year	2040	Analysis Period	1> 7:00
Intersection	I-88 WB Ramps	File Name	2040 AM - IL 47 & I-88 WB Ramps.xus		
Project Description	168279001 I-88 & IL 47 Phase 1 - Sugar Grove				



Demand Information	EB			WB			NB			SB		
Approach Movement	L	T	R	L	T	R	L	T	R	L	T	R
Demand (*v*), veh/h				298		221		890	331		955	109

Signal Information			
Cycle, s	120.0	Reference Phase	2
Offset, s	0	Reference Point	Begin
Uncoordinated	No	Simult. Gap E/W	On
Force Mode	Fixed	Simult. Gap N/S	On

Green	83.2	24.8	0.0	0.0	0.0	0.0
Yellow	4.5	4.5	0.0	0.0	0.0	0.0
Red	1.5	1.5	0.0	0.0	0.0	0.0



Traffic Information	EB			WB			NB			SB		
Approach Movement	L	T	R	L	T	R	L	T	R	L	T	R
Demand (*v*), veh/h				298		221		890	331		955	109
Initial Queue (Q_b), veh/h				0		0		0	0		0	0
Base Saturation Flow Rate (s_o), veh/h				1900		1900		2000	1900		2000	1900
Parking (N_m), man/h					None			None			None	
Heavy Vehicles (P_{HV}), %				11		14		14	8		11	2
Ped / Bike / RTOR, /h	0	0		0	0		0	0	0	0	0	0
Buses (N_b), buses/h				0		0		0	0		0	0
Arrival Type (*AT*)				3		3		4	3		4	3
Upstream Filtering (*I*)				1.00		1.00		1.00	1.00		1.00	1.00
Lane Width (*W*), ft				12.0		12.0		12.0	12.0		12.0	12.0
Turn Bay Length, ft				255		0		0	0		0	265
Grade (*Pg*), %		0			0			0			0	
Speed Limit, mi/h				35		35		55	55		55	55

Phase Information	EBL	EBT	WBL	WBT	NBL	NBT	SBL	SBT
Maximum Green (G_{max}) or Phase Split, s			45.0	45.0		75.0		75.0
Yellow Change Interval (*Y*), s			4.5	4.5		4.5		4.5
Red Clearance Interval (R_c), s			1.5	1.5		1.5		1.5
Minimum Green (G_{min}), s			8	8		15		15
Start-Up Lost Time (*lt*), s			2.0			2.0		2.0
Extension of Effective Green (*e*), s			2.0			2.0		2.0
Passage (*PT*), s			5.0	5.0		7.0		7.0
Recall Mode			Off	Off		Min		Min
Dual Entry			Yes	Yes		Yes		Yes
Walk (*Walk*), s			0.0			7.0		0.0
Pedestrian Clearance Time (*PC*), s			0.0			15.0		0.0

Multimodal Information	EB			WB			NB			SB		
85th % Speed / Rest in Walk / Corner Radius				0	No	25	0	No	25	0	No	25
Walkway / Crosswalk Width / Length, ft				9.0	12	0	9.0	12	0	9.0	12	0
Street Width / Island / Curb				0	0	No	0	0	No	0	0	No
Width Outside / Bike Lane / Shoulder, ft				12	5.0	2.0	12	5.0	2.0	12	5.0	2.0
Pedestrian Signal / Occupied Parking				No		0.50	No		0.50	No		0.50

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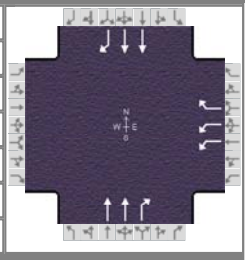
HCS7 Signalized Intersection Results Summary

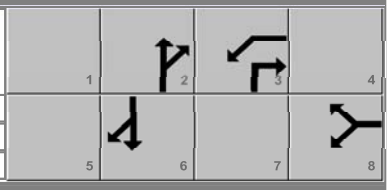
General Information				Intersection Information	
Agency	Kimley-Horn			Duration, h	0.25
Analyst	KAS	Analysis Date	Dec 19, 2016	Area Type	Other
Jurisdiction	IDOT	Time Period	AM Peak	PHF	0.95
Urban Street	IL-47	Analysis Year	2040	Analysis Period	1> 7:00
Intersection	I-88 WB Ramps	File Name	2040 AM - IL 47 & I-88 WB Ramps.xus		
Project Description	168279001 I-88 & IL 47 Phase 1 - Sugar Grove				



Demand Information	EB			WB			NB			SB		
Approach Movement	L	T	R	L	T	R	L	T	R	L	T	R
Demand (*v*), veh/h				298		221		890	331		955	109

Signal Information			
Cycle, s	120.0	Reference Phase	2
Offset, s	0	Reference Point	Begin
Uncoordinated	No	Simult. Gap E/W	On
Force Mode	Fixed	Simult. Gap N/S	On

Green	83.2	24.8	0.0	0.0	0.0	0.0
Yellow	4.5	4.5	0.0	0.0	0.0	0.0
Red	1.5	1.5	0.0	0.0	0.0	0.0



Timer Results	EBL	EBT	WBL	WBT	NBL	NBT	SBL	SBT
Assigned Phase				8		2		6
Case Number				9.0		7.0		7.0
Phase Duration, s				30.8		89.2		89.2
Change Period, ($Y+R_c$), s				6.0		6.0		6.0
Max Allow Headway (*MAH*), s				6.2		0.0		0.0
Queue Clearance Time (g_s), s				20.4				
Green Extension Time (g_e), s				4.4		0.0		0.0
Phase Call Probability				1.00				
Max Out Probability				0.11				

Movement Group Results	EB			WB			NB			SB		
Approach Movement	L	T	R	L	T	R	L	T	R	L	T	R
Assigned Movement				3		18		2	12		6	16
Adjusted Flow Rate (*v*), veh/h				314		233		937	348		1005	115
Adjusted Saturation Flow Rate (*s*), veh/h/ln				1606		1434		1696	1510		1741	1585
Queue Service Time (g_s), s				10.3		18.4		4.0	3.6		4.3	2.9
Cycle Queue Clearance Time (g_c), s				10.3		18.4		4.0	3.6		4.3	2.9
Green Ratio (*g/C*)				0.21		0.21		0.69	0.90		0.69	0.69
Capacity (*c*), veh/h				664		297		2352	1359		2413	1099
Volume-to-Capacity Ratio (*X*)				0.472		0.784		0.398	0.256		0.417	0.104
Back of Queue (*Q*), ft/ln (95 th percentile)				203.4		324		46.8	8.2		49.4	37.8
Back of Queue (*Q*), veh/ln (95 th percentile)				7.5		11.7		1.7	0.3		1.8	1.5
Queue Storage Ratio (*RQ*) (95 th percentile)				0.80		0.00		0.00	0.00		0.00	0.14
Uniform Delay (d_1), s/veh				41.8		45.1		1.5	0.8		1.6	6.1
Incremental Delay (d_2), s/veh				1.1		9.3		0.5	0.5		0.5	0.2
Initial Queue Delay (d_3), s/veh				0.0		0.0		0.0	0.0		0.0	0.0
Control Delay (*d*), s/veh				43.0		54.4		2.0	1.2		2.1	6.3
Level of Service (LOS)				D		D		A	A		A	A
Approach Delay, s/veh / LOS	0.0			47.8		D	1.8		A	2.5		A
Intersection Delay, s/veh / LOS	10.6						B					

Multimodal Results	EB		WB		NB		SB	
Pedestrian LOS Score / LOS	2.9	C	2.9	C	2.4	B	1.9	B
Bicycle LOS Score / LOS				F	1.5	B	1.4	A

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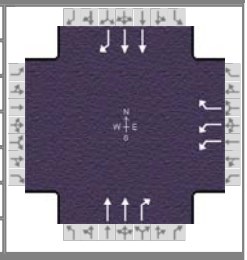
HCS7 Signalized Intersection Intermediate Values

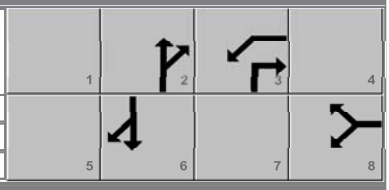
General Information				Intersection Information	
Agency	Kimley-Horn			Duration, h	0.25
Analyst	KAS	Analysis Date	Dec 19, 2016	Area Type	Other
Jurisdiction	IDOT	Time Period	AM Peak	PHF	0.95
Urban Street	IL-47	Analysis Year	2040	Analysis Period	1> 7:00
Intersection	I-88 WB Ramps	File Name	2040 AM - IL 47 & I-88 WB Ramps.xus		
Project Description	168279001 I-88 & IL 47 Phase 1 - Sugar Grove				



Demand Information	EB			WB			NB			SB		
Approach Movement	L	T	R	L	T	R	L	T	R	L	T	R
Demand (v), veh/h				298		221		890	331		955	109

Signal Information			
Cycle, s	120.0	Reference Phase	2
Offset, s	0	Reference Point	Begin
Uncoordinated	No	Simult. Gap E/W	On
Force Mode	Fixed	Simult. Gap N/S	On

Green	83.2	24.8	0.0	0.0	0.0	0.0
Yellow	4.5	4.5	0.0	0.0	0.0	0.0
Red	1.5	1.5	0.0	0.0	0.0	0.0



Saturation Flow / Delay	L	T	R	L	T	R	L	T	R	L	T	R
Lane Width Adjustment Factor (f_w)				1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
Heavy Vehicles and Grade Factor (f_{HVg})				0.914	1.000	0.891	1.000	0.891	0.938	1.000	0.914	0.984
Parking Activity Adjustment Factor (f_p)	0.000	0.000	0.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
Bus Blockage Adjustment Factor (f_{bb})	0.000	0.000	0.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
Area Type Adjustment Factor (f_a)				1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
Lane Utilization Adjustment Factor (f_{LU})	1.000	1.000	1.000	0.971	1.000	1.000	1.000	0.952	1.000	1.000	0.952	1.000
Left-Turn Adjustment Factor (f_{LT})				0.952	0.000		1.000	1.000		1.000	1.000	
Right-Turn Adjustment Factor (f_{RT})					0.000	0.847		0.000	0.847		0.000	0.847
Left-Turn Pedestrian Adjustment Factor (f_{Lpb})				1.000			1.000			1.000		
Right-Turn Ped-Bike Adjustment Factor (f_{Rpb})						1.000			1.000			1.000
Work Zone Adjustment Factor (f_{wz})				1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
DDI Factor (f_{DDI})				1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
Movement Saturation Flow Rate (s), veh/h				3309	0	1434	0	3478	1510	0	3569	1585
Proportion of Vehicles Arriving on Green (P)	0.00	0.00	0.00	0.21	0.00	0.21	0.00	0.92	0.69	0.00	0.92	0.69
Incremental Delay Factor (k)				0.23		0.23		0.50	0.50		0.50	0.50

Signal Timing / Movement Groups	EBL	EBT/R	WBL	WBT/R	NBL	NBT/R	SBL	SBT/R
Lost Time (t_L)				6.0		6.0		6.0
Green Ratio (g/C)				0.21		0.69		0.69
Permitted Saturation Flow Rate (s_p), veh/h/ln				1654		569		607
Shared Saturation Flow Rate (s_{sh}), veh/h/ln						0		0
Permitted Effective Green Time (g_p), s				0.0		0.0		0.0
Permitted Service Time (g_u), s				0.0		0.0		0.0
Permitted Queue Service Time (g_{ps}), s								
Time to First Blockage (g_f), s				0.0		83.2		83.2
Queue Service Time Before Blockage (g_{fs}), s								
Protected Right Saturation Flow (s_R), veh/h/ln				0		1510		0
Protected Right Effective Green Time (g_R), s				0.0		24.8		0.0

Multimodal	EB		WB		NB		SB	
Pedestrian F_w / F_v	2.107	0.00	2.107	0.00	1.710	0.00	1.198	0.00
Pedestrian F_s / F_{delay}	0.000	0.167	0.000	0.169	0.000	0.069	0.000	0.069
Pedestrian M_{corner} / M_{cw}								
Bicycle c_b / d_b	-83.33	65.10		67.20	1386.48	5.65	1386.48	5.65
Bicycle F_w / F_v	-3.64		-3.64		-3.64	1.06	-3.64	0.92

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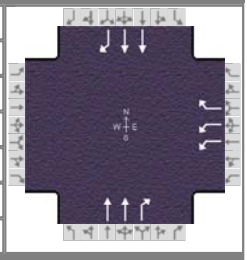
HCS7 Signalized Intersection Results Graphical Summary

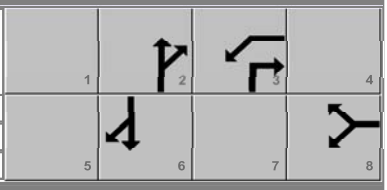
General Information				Intersection Information	
Agency	Kimley-Horn			Duration, h	0.25
Analyst	KAS	Analysis Date	Dec 19, 2016	Area Type	Other
Jurisdiction	IDOT	Time Period	AM Peak	PHF	0.95
Urban Street	IL-47	Analysis Year	2040	Analysis Period	1> 7:00
Intersection	I-88 WB Ramps	File Name	2040 AM - IL 47 & I-88 WB Ramps.xus		
Project Description	168279001 I-88 & IL 47 Phase 1 - Sugar Grove				



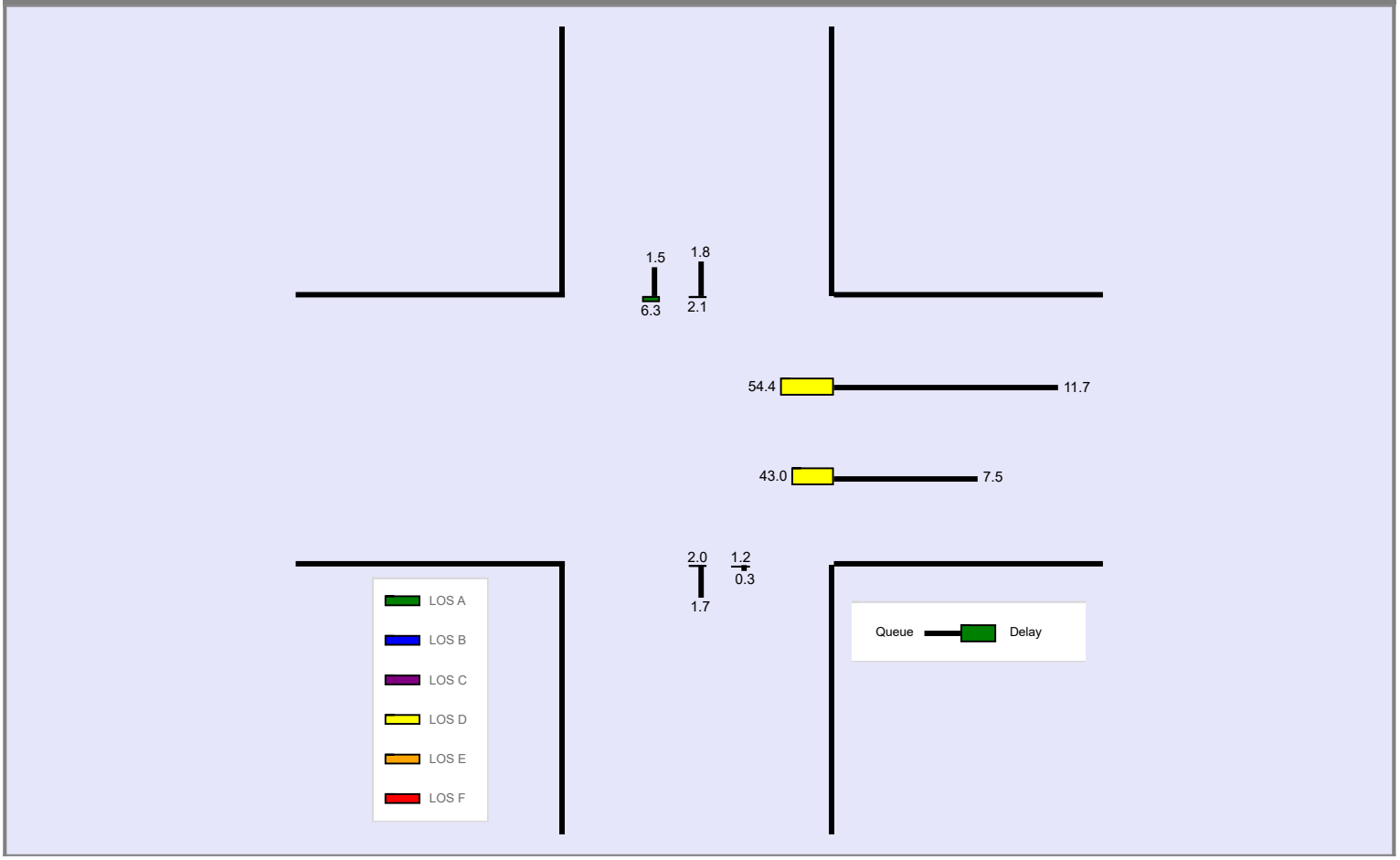
Demand Information	EB			WB			NB			SB		
Approach Movement	L	T	R	L	T	R	L	T	R	L	T	R
Demand (*v*), veh/h				298		221		890	331		955	109

Signal Information			
Cycle, s	120.0	Reference Phase	2
Offset, s	0	Reference Point	Begin
Uncoordinated	No	Simult. Gap E/W	On
Force Mode	Fixed	Simult. Gap N/S	On

Green	83.2	24.8	0.0	0.0	0.0	0.0
Yellow	4.5	4.5	0.0	0.0	0.0	0.0
Red	1.5	1.5	0.0	0.0	0.0	0.0



Movement Group Results	EB			WB			NB			SB		
Approach Movement	L	T	R	L	T	R	L	T	R	L	T	R
Back of Queue (*Q*), ft/ln (95 th percentile)				203.4		324		46.8	8.2		49.4	37.8
Back of Queue (*Q*), veh/ln (95 th percentile)				7.5		11.7		1.7	0.3		1.8	1.5
Queue Storage Ratio (*RQ*) (95 th percentile)				0.80		0.00		0.00	0.00		0.00	0.14
Control Delay (*d*), s/veh				43.0		54.4		2.0	1.2		2.1	6.3
Level of Service (LOS)				D		D		A	A		A	A
Approach Delay, s/veh / LOS	0.0			47.8		D	1.8		A	2.5		A
Intersection Delay, s/veh / LOS	10.6						B					



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--- Messages ---

No errors or warnings exist.

--- Comments ---

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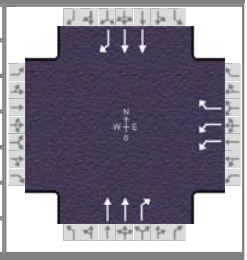
HCS7 Signalized Intersection Input Data

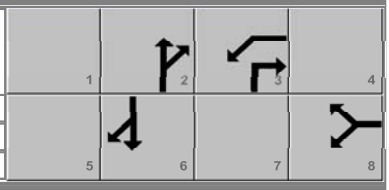
General Information				Intersection Information	
Agency	Kimley-Horn			Duration, h	0.25
Analyst	KAS	Analysis Date	Dec 19, 2016	Area Type	Other
Jurisdiction	IDOT	Time Period	PM Peak	PHF	0.95
Urban Street	IL-47	Analysis Year	2040	Analysis Period	1> 7:00
Intersection	I-88 WB Ramps	File Name	2040 PM - IL 47 & I-88 WB Ramps.xus		
Project Description	168279001 I-88 & IL 47 Phase 1 - Sugar Grove				



Demand Information	EB			WB			NB			SB		
Approach Movement	L	T	R	L	T	R	L	T	R	L	T	R
Demand (*v*), veh/h				347		260		1049	202		706	74

Signal Information			
Cycle, s	120.0	Reference Phase	2
Offset, s	0	Reference Point	Begin
Uncoordinated	No	Simult. Gap E/W	On
Force Mode	Fixed	Simult. Gap N/S	On

Green	81.3	26.7	0.0	0.0	0.0	0.0
Yellow	4.5	4.5	0.0	0.0	0.0	0.0
Red	1.5	1.5	0.0	0.0	0.0	0.0



Traffic Information	EB			WB			NB			SB		
Approach Movement	L	T	R	L	T	R	L	T	R	L	T	R
Demand (*v*), veh/h				347		260		1049	202		706	74
Initial Queue (Q_b), veh/h				0		0		0	0		0	0
Base Saturation Flow Rate (s_o), veh/h				1900		1900		2000	1900		2000	1900
Parking (N_m), man/h					None			None			None	
Heavy Vehicles (P_{HV}), %				4		3		3	15		4	11
Ped / Bike / RTOR, /h	0	0		0	0		0	0	0	0	0	0
Buses (N_b), buses/h				0		0		0	0		0	0
Arrival Type (*AT*)				3		3		4	3		4	3
Upstream Filtering (*I*)				1.00		1.00		1.00	1.00		1.00	1.00
Lane Width (*W*), ft				12.0		12.0		12.0	12.0		12.0	12.0
Turn Bay Length, ft				255		0		0	0		0	265
Grade (*Pg*), %		0			0			0			0	
Speed Limit, mi/h				35		35		55	55		55	55

Phase Information	EBL	EBT	WBL	WBT	NBL	NBT	SBL	SBT
Maximum Green (G_{max}) or Phase Split, s			45.0	45.0		75.0		75.0
Yellow Change Interval (*Y*), s			4.5	4.5		4.5		4.5
Red Clearance Interval (R_c), s			1.5	1.5		1.5		1.5
Minimum Green (G_{min}), s			8	8		15		15
Start-Up Lost Time (*lt*), s			2.0			2.0		2.0
Extension of Effective Green (*e*), s			2.0			2.0		2.0
Passage (*PT*), s			5.0	5.0		7.0		7.0
Recall Mode			Off	Off		Min		Min
Dual Entry			Yes	Yes		Yes		Yes
Walk (*Walk*), s			0.0			7.0		0.0
Pedestrian Clearance Time (*PC*), s			0.0			15.0		0.0

Multimodal Information	EB			WB			NB			SB		
85th % Speed / Rest in Walk / Corner Radius				0	No	25	0	No	25	0	No	25
Walkway / Crosswalk Width / Length, ft				9.0	12	0	9.0	12	0	9.0	12	0
Street Width / Island / Curb				0	0	No	0	0	No	0	0	No
Width Outside / Bike Lane / Shoulder, ft				12	5.0	2.0	12	5.0	2.0	12	5.0	2.0
Pedestrian Signal / Occupied Parking				No		0.50	No		0.50	No		0.50

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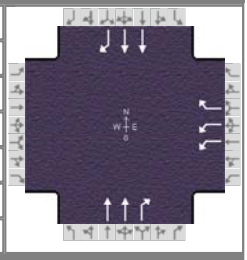
HCS7 Signalized Intersection Results Summary

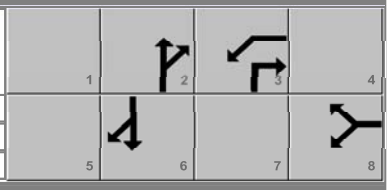
General Information				Intersection Information	
Agency	Kimley-Horn			Duration, h	0.25
Analyst	KAS	Analysis Date	Dec 19, 2016	Area Type	Other
Jurisdiction	IDOT	Time Period	PM Peak	PHF	0.95
Urban Street	IL-47	Analysis Year	2040	Analysis Period	1> 7:00
Intersection	I-88 WB Ramps	File Name	2040 PM - IL 47 & I-88 WB Ramps.xus		
Project Description	168279001 I-88 & IL 47 Phase 1 - Sugar Grove				



Demand Information	EB			WB			NB			SB		
Approach Movement	L	T	R	L	T	R	L	T	R	L	T	R
Demand (*v*), veh/h				347		260		1049	202		706	74

Signal Information			
Cycle, s	120.0	Reference Phase	2
Offset, s	0	Reference Point	Begin
Uncoordinated	No	Simult. Gap E/W	On
Force Mode	Fixed	Simult. Gap N/S	On

Green	81.3	26.7	0.0	0.0	0.0	0.0
Yellow	4.5	4.5	0.0	0.0	0.0	0.0
Red	1.5	1.5	0.0	0.0	0.0	0.0



Timer Results	EBL	EBT	WBL	WBT	NBL	NBT	SBL	SBT
Assigned Phase				8		2		6
Case Number				9.0		7.0		7.0
Phase Duration, s				32.7		87.3		87.3
Change Period, ($Y+R_c$), s				6.0		6.0		6.0
Max Allow Headway (*MAH*), s				6.2		0.0		0.0
Queue Clearance Time (g_s), s				21.7				
Green Extension Time (g_e), s				5.0		0.0		0.0
Phase Call Probability				1.00				
Max Out Probability				0.18				

Movement Group Results	EB			WB			NB			SB		
Approach Movement	L	T	R	L	T	R	L	T	R	L	T	R
Assigned Movement				3		18		2	12		6	16
Adjusted Flow Rate (*v*), veh/h				365		274		1104	213		743	78
Adjusted Saturation Flow Rate (*s*), veh/h/ln				1702		1572		1859	1422		1845	1472
Queue Service Time (g_s), s				11.2		19.7		5.7	2.1		3.2	2.2
Cycle Queue Clearance Time (g_c), s				11.2		19.7		5.7	2.1		3.2	2.2
Green Ratio (*g/C*)				0.22		0.22		0.68	0.90		0.68	0.68
Capacity (*c*), veh/h				758		350		2519	1280		2499	997
Volume-to-Capacity Ratio (*X*)				0.482		0.782		0.438	0.166		0.297	0.078
Back of Queue (*Q*), ft/ln (95 th percentile)				215.5		336.2		65.3	5		42	29.3
Back of Queue (*Q*), veh/ln (95 th percentile)				8.4		13.1		2.6	0.2		1.6	1.1
Queue Storage Ratio (*RQ*) (95 th percentile)				0.84		0.00		0.00	0.00		0.00	0.11
Uniform Delay (d_1), s/veh				40.6		43.9		2.1	0.7		2.0	6.6
Incremental Delay (d_2), s/veh				1.0		8.5		0.6	0.3		0.3	0.2
Initial Queue Delay (d_3), s/veh				0.0		0.0		0.0	0.0		0.0	0.0
Control Delay (*d*), s/veh				41.6		52.4		2.7	1.0		2.3	6.7
Level of Service (LOS)				D		D		A	A		A	A
Approach Delay, s/veh / LOS	0.0			46.3		D	2.4		A	2.7		A
Intersection Delay, s/veh / LOS	12.6						B					

Multimodal Results	EB		WB		NB		SB	
Pedestrian LOS Score / LOS	2.9	C	2.9	C	2.4	B	1.9	B
Bicycle LOS Score / LOS				F	1.6	B	1.2	A

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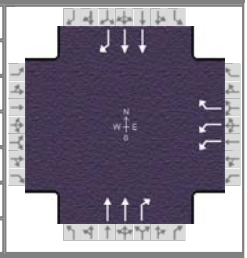
HCS7 Signalized Intersection Intermediate Values

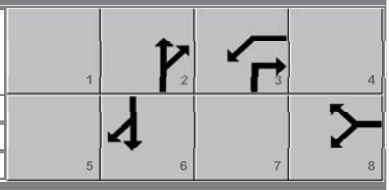
General Information				Intersection Information	
Agency	Kimley-Horn			Duration, h	0.25
Analyst	KAS	Analysis Date	Dec 19, 2016	Area Type	Other
Jurisdiction	IDOT	Time Period	PM Peak	PHF	0.95
Urban Street	IL-47	Analysis Year	2040	Analysis Period	1> 7:00
Intersection	I-88 WB Ramps	File Name	2040 PM - IL 47 & I-88 WB Ramps.xus		
Project Description	168279001 I-88 & IL 47 Phase 1 - Sugar Grove				



Demand Information	EB			WB			NB			SB		
Approach Movement	L	T	R	L	T	R	L	T	R	L	T	R
Demand (v), veh/h				347		260		1049	202		706	74

Signal Information			
Cycle, s	120.0	Reference Phase	2
Offset, s	0	Reference Point	Begin
Uncoordinated	No	Simult. Gap E/W	On
Force Mode	Fixed	Simult. Gap N/S	On

Green	81.3	26.7	0.0	0.0	0.0	0.0
Yellow	4.5	4.5	0.0	0.0	0.0	0.0
Red	1.5	1.5	0.0	0.0	0.0	0.0



Saturation Flow / Delay	L	T	R	L	T	R	L	T	R	L	T	R
Lane Width Adjustment Factor (f_w)				1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
Heavy Vehicles and Grade Factor (f_{HVg})				0.969	1.000	0.977	1.000	0.977	0.883	1.000	0.969	0.914
Parking Activity Adjustment Factor (f_p)	0.000	0.000	0.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
Bus Blockage Adjustment Factor (f_{bb})	0.000	0.000	0.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
Area Type Adjustment Factor (f_a)				1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
Lane Utilization Adjustment Factor (f_{LU})	1.000	1.000	1.000	0.971	1.000	1.000	1.000	0.952	1.000	1.000	0.952	1.000
Left-Turn Adjustment Factor (f_{LT})				0.952	0.000		1.000	1.000		1.000	1.000	
Right-Turn Adjustment Factor (f_{RT})					0.000	0.847		0.000	0.847		0.000	0.847
Left-Turn Pedestrian Adjustment Factor (f_{Lpb})				1.000			1.000			1.000		
Right-Turn Ped-Bike Adjustment Factor (f_{Rpb})						1.000			1.000			1.000
Work Zone Adjustment Factor (f_{wz})				1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
DDI Factor (f_{DDI})				1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
Movement Saturation Flow Rate (s), veh/h				3506	0	1572	0	3813	1422	0	3782	1472
Proportion of Vehicles Arriving on Green (P)	0.00	0.00	0.00	0.22	0.00	0.22	0.00	0.90	0.68	0.00	0.90	0.68
Incremental Delay Factor (k)				0.23		0.25		0.50	0.50		0.50	0.50

Signal Timing / Movement Groups	EBL	EBT/R	WBL	WBT/R	NBL	NBT/R	SBL	SBT/R
Lost Time (t_L)				6.0		6.0		6.0
Green Ratio (g/C)				0.22		0.68		0.68
Permitted Saturation Flow Rate (s_p), veh/h/ln				1753		728		519
Shared Saturation Flow Rate (s_{sh}), veh/h/ln						0		0
Permitted Effective Green Time (g_p), s				0.0		0.0		0.0
Permitted Service Time (g_u), s				0.0		0.0		0.0
Permitted Queue Service Time (g_{ps}), s								
Time to First Blockage (g_f), s				0.0		81.3		81.3
Queue Service Time Before Blockage (g_{fs}), s								
Protected Right Saturation Flow (s_R), veh/h/ln				0		1422		0
Protected Right Effective Green Time (g_R), s				0.0		26.7		0.0

Multimodal	EB		WB		NB		SB	
Pedestrian F_w / F_v	2.107	0.00	2.107	0.00	1.710	0.00	1.198	0.00
Pedestrian F_s / F_{delay}	0.000	0.167	0.000	0.169	0.000	0.073	0.000	0.073
Pedestrian M_{corner} / M_{cw}								
Bicycle c_b / d_b	-83.33	65.10		67.20	1354.95	6.24	1354.95	6.24
Bicycle F_w / F_v	-3.64		-3.64		-3.64	1.09	-3.64	0.68

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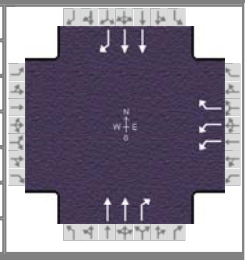
HCS7 Signalized Intersection Results Graphical Summary

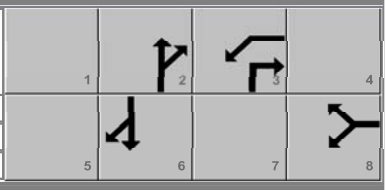
General Information				Intersection Information	
Agency	Kimley-Horn			Duration, h	0.25
Analyst	KAS	Analysis Date	Dec 19, 2016	Area Type	Other
Jurisdiction	IDOT	Time Period	PM Peak	PHF	0.95
Urban Street	IL-47	Analysis Year	2040	Analysis Period	1> 7:00
Intersection	I-88 WB Ramps	File Name	2040 PM - IL 47 & I-88 WB Ramps.xus		
Project Description	168279001 I-88 & IL 47 Phase 1 - Sugar Grove				



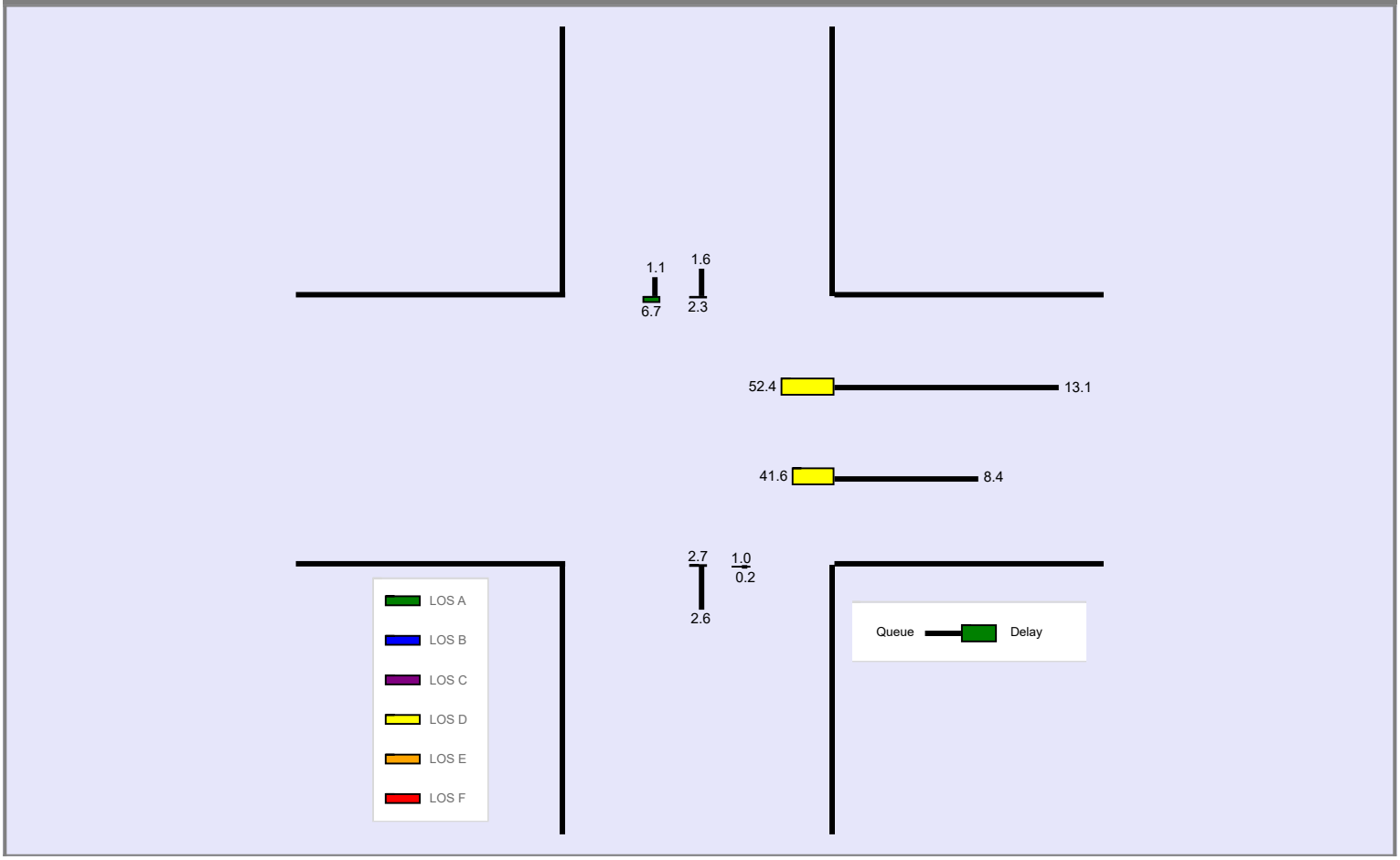
Demand Information	EB			WB			NB			SB		
Approach Movement	L	T	R	L	T	R	L	T	R	L	T	R
Demand (*v*), veh/h				347		260		1049	202		706	74

Signal Information			
Cycle, s	120.0	Reference Phase	2
Offset, s	0	Reference Point	Begin
Uncoordinated	No	Simult. Gap E/W	On
Force Mode	Fixed	Simult. Gap N/S	On

Green	81.3	26.7	0.0	0.0	0.0	0.0
Yellow	4.5	4.5	0.0	0.0	0.0	0.0
Red	1.5	1.5	0.0	0.0	0.0	0.0



Movement Group Results	EB			WB			NB			SB		
Approach Movement	L	T	R	L	T	R	L	T	R	L	T	R
Back of Queue (*Q*), ft/ln (95 th percentile)				215.5		336.2		65.3	5		42	29.3
Back of Queue (*Q*), veh/ln (95 th percentile)				8.4		13.1		2.6	0.2		1.6	1.1
Queue Storage Ratio (*RQ*) (95 th percentile)				0.84		0.00		0.00	0.00		0.00	0.11
Control Delay (*d*), s/veh				41.6		52.4		2.7	1.0		2.3	6.7
Level of Service (LOS)				D		D		A	A		A	A
Approach Delay, s/veh / LOS	0.0			46.3		D	2.4		A	2.7		A
Intersection Delay, s/veh / LOS	12.6						B					



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--- Messages ---

No errors or warnings exist.

--- Comments ---

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Illinois Department of Transportation

JFP/JRS
DUE→9/18/18

Informal Transmittal

To:	Jason Salley
Bureau:	Programming - GSU
Attn:	Jim Prola
	(5TH SUBMITTAL)
Date:	8/7/2018 ✓

From:	S.Schilke/C.Smith/K.Bochte
Bureau:	Programming - CSU
Subject:	IL 47 at I-88 | P-91-015-14
	Final Geometry Review

Please check appropriate box below:

- ☒ Take Necessary Action
- ☒ For Your Comments
- ☐ Per Your Request
- ☐ For Your Approval
- ☐ For Your Information
- ☐ See Me About the Attached
- ☐ Draft (Letter)(Memo) For my signature
- ☒ Reply
- ☒ Return
- ☐ Route
- ☐ File

Message

P-91-015-14
IL 47 at I-88
Old Oaks Road/College Drive to Green Road
Kane County
Sugar Grove

Attached is the revised final geometry submittal for the subject project for your review and comment. The submittal includes alignment plan, typical sections, plan and profiles, autoturn movements, and cross-sections. The submittal also includes design exceptions, IDSs, HCS reports, and the previous review comments.

If you have any questions or need additional information, please contact Corey Smith, P.E., Project Manager at extension 4103 or Kyle Bochte, Project Engineer at extension 4088.

Signature

Copies to

Response 8/27/18

KYLE - THIS PROJECT'S GEOMETRY AND ITS IDS'S ARE APPROVED.

CC: JK & JL (BOT)
SW (BOM)
AL (IT)

THANKS, JASON SALLEY x 4085

Signature

Illinois Department of Transportation

Informal Transmittal

To:	Steven Schilke
Attn:	Kyle Bochte
Unit:	Consultant Studies Unit
Phone:	(847) 705-4088
Date:	August 27, 2018

From:	Jason Salley
Unit:	Geometric Studies Unit
Phone:	(847) 705-4085
Subject:	IL 47 at I-88 / P-91-015-14
	Geometric & IDS Approval

Please check appropriate box below:

- ☐ Take Necessary Action
- ☐ For Your Comments
- ☒ Per Your Request
- ☐ For Your Approval
- ☐ For Your Information
- ☐ See Me About the Attached
- ☐ Draft (Letter)(Memo) For My signature
- ☐ Reply
- ☐ Return
- ☐ Route
- ☐ File

Message

Kyle,
The Design Exceptions for this project were approved by IDOT BDE on August 15, 2018. All remaining Design Elements for this project meet current BDE Standards.

A PDF copy of the project's Intersection Design Studies (IDS's) has been received by the Geometric Studies Unit and has been placed onto the District's H Drive for future reference.

Therefore, I approve this project's geometry as well as its IDS's.

This project's BDE 2602 and 3100 Forms will be forwarded to IDOT BDE for their records.

Please contact me if you have any questions or comments.

Thanks,

Jason Salley, P.E.
Signature

Copies to

File	BDE	BOT	BOM

Response

Signature

From:	Bochte, Kyle
To:	Johnston, Peter
Cc:	Smith, Corey J.; Anthony Speciale
Subject:	IL 47 at I-88 | Final Geometric Approval
Date:	Monday, August 27, 2018 9:05:51 AM
Attachments:	Geometric Approval (2018.8.27).zip

Good Morning Pete,

The geometrics studies unit has approved the final geometry and IDSs.

Please find the attached PDF files with the following:

1. GSU review and the District One transmittal noting the Geometric Approval
2. BDE 2602 Form
3. Design Exception Meeting Minutes & Design Exceptions Table
4. BDE 3100 Forms
5. IL 47 at I-88 Final Ramps IDS's and Plan & Profiles

Thanks,
Kyle

Kyle R. Bochte
Illinois Department of Transportation | Bureau of Programming
Consultant Studies Unit | Project Engineer
201 West Center Court | Schaumburg, IL 60196
Phone: (847) 705-4088
kyle.bochte@illinois.gov

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IDOT BDE Design Exception Meeting Minutes
August 15, 2018

IL Route 47 at I-88 EB and WB Ramps / IDOT Phase I

The scope of this project includes the reconstruction and widening of IL Route 47 to provide two lanes in each direction with proposed medians with various widths for left-turn lanes at the intersections. New I-88 EB On/Off Ramps are to be constructed with new traffic signals at the IL 47 and I-88 WB and EB Reconstruction.
The following Design Exceptions (DE) were presented to IDOT BDE for approval:

	BDE Standard	Proposed Design	Location of Exception	Justification of Exception
1	50-ft Median Width (BDE Fig. 46-4.c)	30-ft Median Width	IL Route 47 from College Dr./Old Oaks Rd. to Green Rd. (i.e. south project limit to north project limit) (Sta. 116+00 to Sta. 195+75)	In order to minimize the impact to adjacent properties and to the ROW take needed, the median width will be 30' wide with 4' inside shoulders, M-4.24 curb and gutter, with a raised grass median.
2	50-ft Median Width (BDE Fig. 46-4.c)	18-ft Median Width	IL Route 47, Sta. 109+00 to Sta. 116+65	In order to minimize the impact to the forest preserve, the median width will be reduced from 30' to 18'. Outside shoulders will be consistent at 10' throughout the corridor, with the exception of the I-88 bridge (see below).
3	50-ft Median Width (BDE Fig. 46-4.c)	12-ft Median Width	IL Route 47, Sta. 203+08 to Sta. 208+00	In order to minimize the impact to adjacent residential properties, the median width will be reduced from 30' to 12'. SB RTL's will be provided in this area.
4	12' Lane Width (AASHTO Green Book, Section 4.3)	11-ft Lane Width	IL Route 47, Sta. 161+50 to Sta. 171+00	There is a desire to not impact the approximate 10-year old superstructure of the bridge over I-88. A 30' median and 2' outside shoulder/gutter are desired.
5	10' Outside Shoulder Width (BDE Fig. 46-4.C)	2' Outside Shoulder Width plus Gutter	IL Route 47, NB Sta. 164+00 to Sta. 166+59, SB Sta. 164+00 to Sta. 167+17	There is a desire to not impact the approximate 10-year old superstructure of the bridge over I-88. A 30' median and 2' outside shoulder/gutter are desired.
6	NB to WB Loop Ramp 800' Taper and 587' Radius BDE Figure 37-6.A	136' taper and 250' radius for initial ramp curve	IL Route 47, Sta. 166+00 to Sta. 169+00, Rt.	There is a desire to not impact the relatively new superstructure of the bridge and to minimize ROW take in the northeast quadrant of the interchange.

	BDE Standard	Proposed Design	Location of Exception	Justification of Exception
7	Level of Service C (BDE 46-4.C)	Level of Service D	IL Route 47 at I-88 EB Ramps: EB Right-Turn and EB Left-Turn (AM & PM)	IL Route 47 at I-88 EB Ramps: EB Right-Turn and EB Left-Turn (AM & PM)
8	Level of Service C (BDE 46-4.C)	Level of Service D	IL Route 47 at I-88 EB Ramps: SB Left-Turn (AM & PM)	IL Route 47 at I-88 EB Ramps: SB Left-Turn (AM & PM)
9	Level of Service C (BDE 46-4.C)	Level of Service D	IL Route 47 at I-88 WB Ramps: WB Right-Turn and WB Left-Turn (AM & PM)	Delay is a function of cycle length and random arrivals from the freeway

Mr. Dwayne Ferguson of BDE has reviewed each MEP and DE prior to the meeting. He had no further comments. There were no further comments from any of the participants. All DE's were approved.

Prepared by: P. Johnson, GRAEF and Presented by: James Prola & Kyle Bochte

Illinois Department of Transportation

District Approval of Geometric Design

District: 1

Consultant: GRAEF

Type of Design:
- [x] Intersection Design Study
- [ ] Interchange Design Study
- [ ] Interchange Type Study
- [ ] Other

Route	Marked	Street
F.A.P. 326	IL 47	Illinois Route 47
Intersecting Route	**Marked**	**Street**
F.A.I. 88	I-88	Ronald Reagan Memorial Tollway

Contract Number	State Job Number	Section Number
	P-91-015-14	14-00028-00-CH

Counties	Municipalities
Kane	Sugar Grove

Local Agency	LRS Section Number

Permit Applicant	Permit Number

Brief Project Description

Reconstruction and widening of IL Route 47 to provide two lanes in each direction with a new medians with varying widths for left-turn lanes at the intersections. New I-88 EB Exit/Entrance Ramps are to be constructed at IL 47.

Date Approved by Qualified Geometrics Engineer: 08/27/2018

Comments

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	----------	KANE	202	1
	ILLINOIS	CONTRACT NO.		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

FINAL GEOMETRIC SUBMITTAL

FAP ROUTE 326
ILLINOIS ROUTE 47 AT I–88 (REAGAN MEMORIAL TOLLWAY)
KANE COUNTY

INDEX

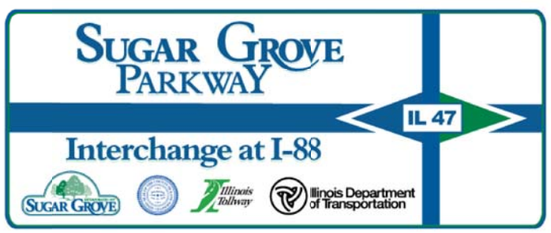
ALIGNMENT PLAN 2-6

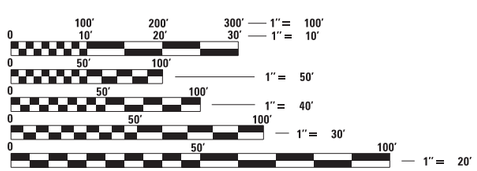
TYPICAL SECTIONS 7-11

PLAN AND PROFILE 12-36

TRUCK TURNING 37-45

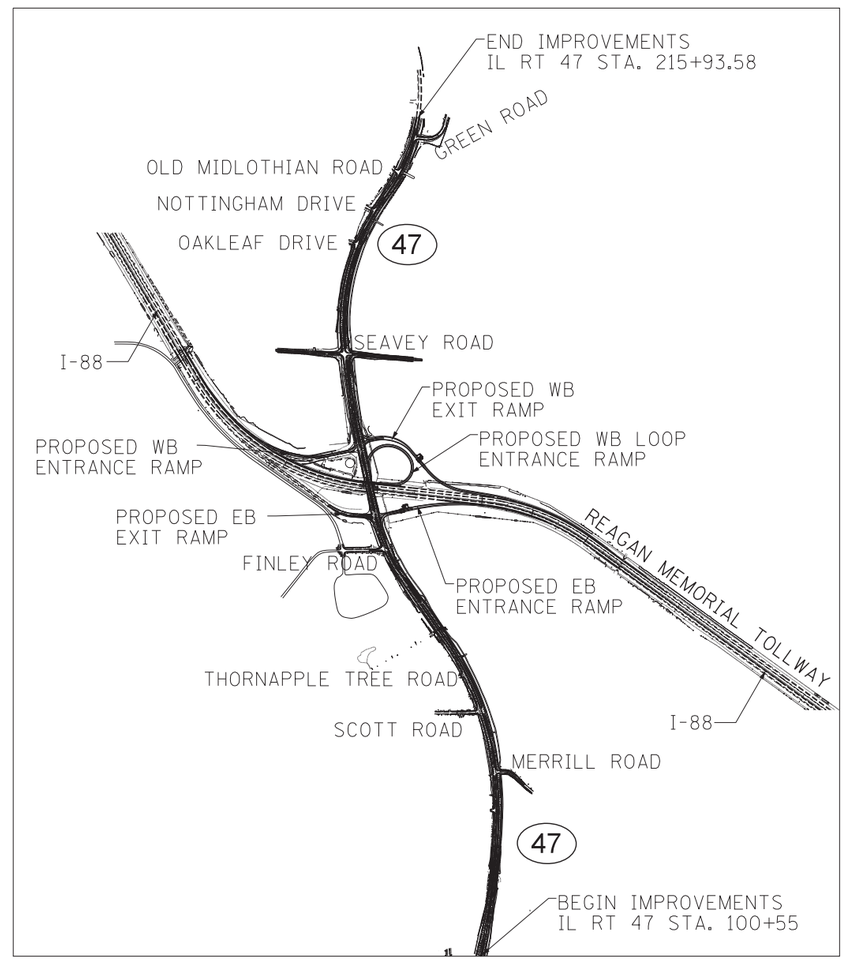
CROSS SECTIONS 46-202



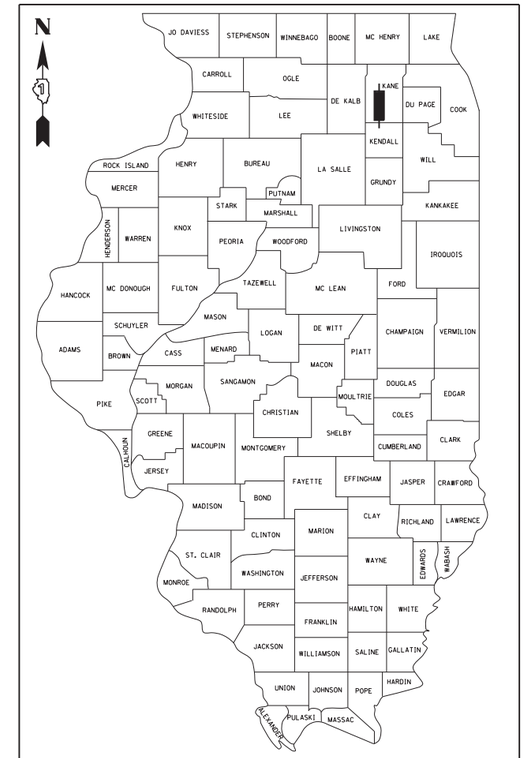


FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

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



LOCATION MAP
(NOT TO SCALE)



LOCATION OF SECTION INDICATED THUS:–

PROFESSIONAL ENGINEER'S SIGN & SEAL

EXPIRES:

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

SUBMITTED _____ 20 _____

_____
REGION ONE ENGINEER

_____ 20 _____

_____
ENGINEER OF DESIGN AND ENVIRONMENT

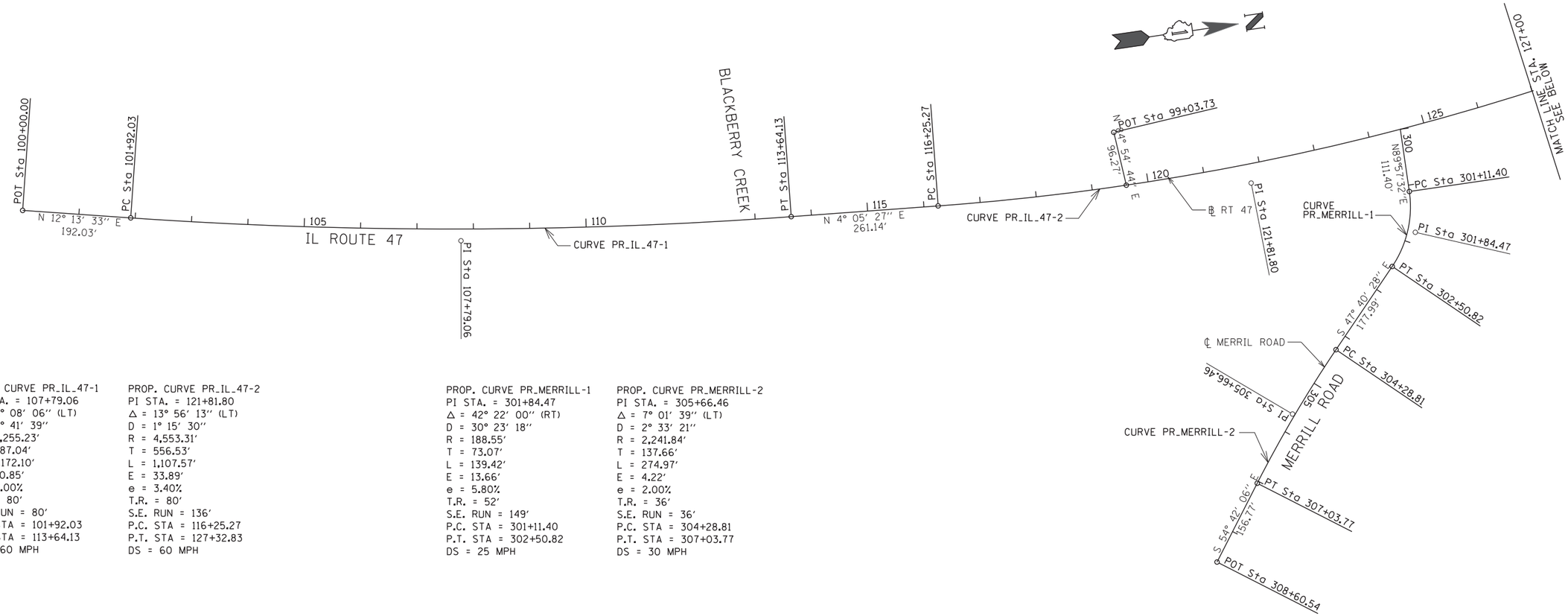
_____ 20 _____

_____
DIRECTOR OF PROGRAM DEVELOPMENT

GRÄEF
8501 W. Higgins Road; Suite 280
Chicago, Illinois 60631
(773) 399-0112

PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

CONTRACT NO. _____

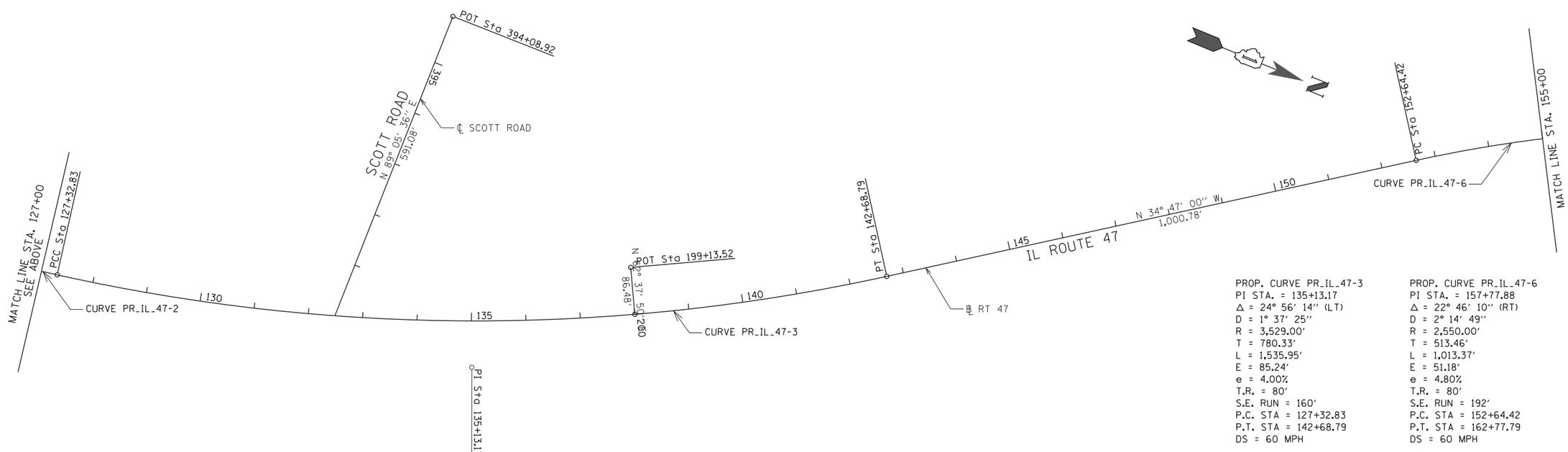


PROP. CURVE PR_IL_47-1
PI STA. = 107+79.06
Δ = 8° 08′ 06″ (LT)
D = 0° 41′ 39″
R = 8,255.23′
T = 587.04′
L = 1,172.10′
E = 20.85′
e = 2.00%
T.R. = 80′
S.E. RUN = 80′
P.C. STA = 101+92.03
P.T. STA = 113+64.13
DS = 60 MPH

PROP. CURVE PR_IL_47-2
PI STA. = 121+81.80
Δ = 13° 56′ 13″ (LT)
D = 1° 15′ 30″
R = 4,553.31′
T = 556.53′
L = 1,107.57′
E = 33.89′
e = 3.40%
T.R. = 80′
S.E. RUN = 136′
P.C. STA = 116+25.27
P.T. STA = 127+32.83
DS = 60 MPH

PROP. CURVE PR_MERRILL-1
PI STA. = 301+84.47
Δ = 42° 22′ 00″ (RT)
D = 30° 23′ 18″
R = 188.55′
T = 73.07′
L = 139.42′
E = 13.66′
e = 5.80%
T.R. = 52′
S.E. RUN = 149′
P.C. STA = 301+11.40
P.T. STA = 302+50.82
DS = 25 MPH

PROP. CURVE PR_MERRILL-2
PI STA. = 305+66.46
Δ = 7° 01′ 39″ (LT)
D = 2° 33′ 21″
R = 2,241.84′
T = 137.66′
L = 274.97′
E = 4.22′
e = 2.00%
T.R. = 36′
S.E. RUN = 36′
P.C. STA = 304+28.81
P.T. STA = 307+03.77
DS = 30 MPH



PROP. CURVE PR_IL_47-3
PI STA. = 135+13.17
Δ = 24° 56′ 14″ (LT)
D = 1° 37′ 25″
R = 3,529.00′
T = 780.33′
L = 1,535.95′
E = 85.24′
e = 4.00%
T.R. = 80′
S.E. RUN = 160′
P.C. STA = 127+32.83
P.T. STA = 142+68.79
DS = 60 MPH

PROP. CURVE PR_IL_47-6
PI STA. = 157+77.88
Δ = 22° 46′ 10″ (RT)
D = 2° 14′ 49″
R = 2,550.00′
T = 513.46′
L = 1,013.37′
E = 51.18′
e = 4.80%
T.R. = 80′
S.E. RUN = 192′
P.C. STA = 152+64.42
P.T. STA = 162+77.79
DS = 60 MPH

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06/25/18 19:00:14

GRAEF
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Chicago, Illinois 60631
(773) 399-0112

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	DRAWN - JWB	REVISED -	
PLOT SCALE = 100.0000 ′ / in.	CHECKED - PMJ	REVISED -	
PLOT DATE = 06/25/18	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL ROUTE 47 AT I-88 INTERCHANGE
ALIGNMENT AND TIES

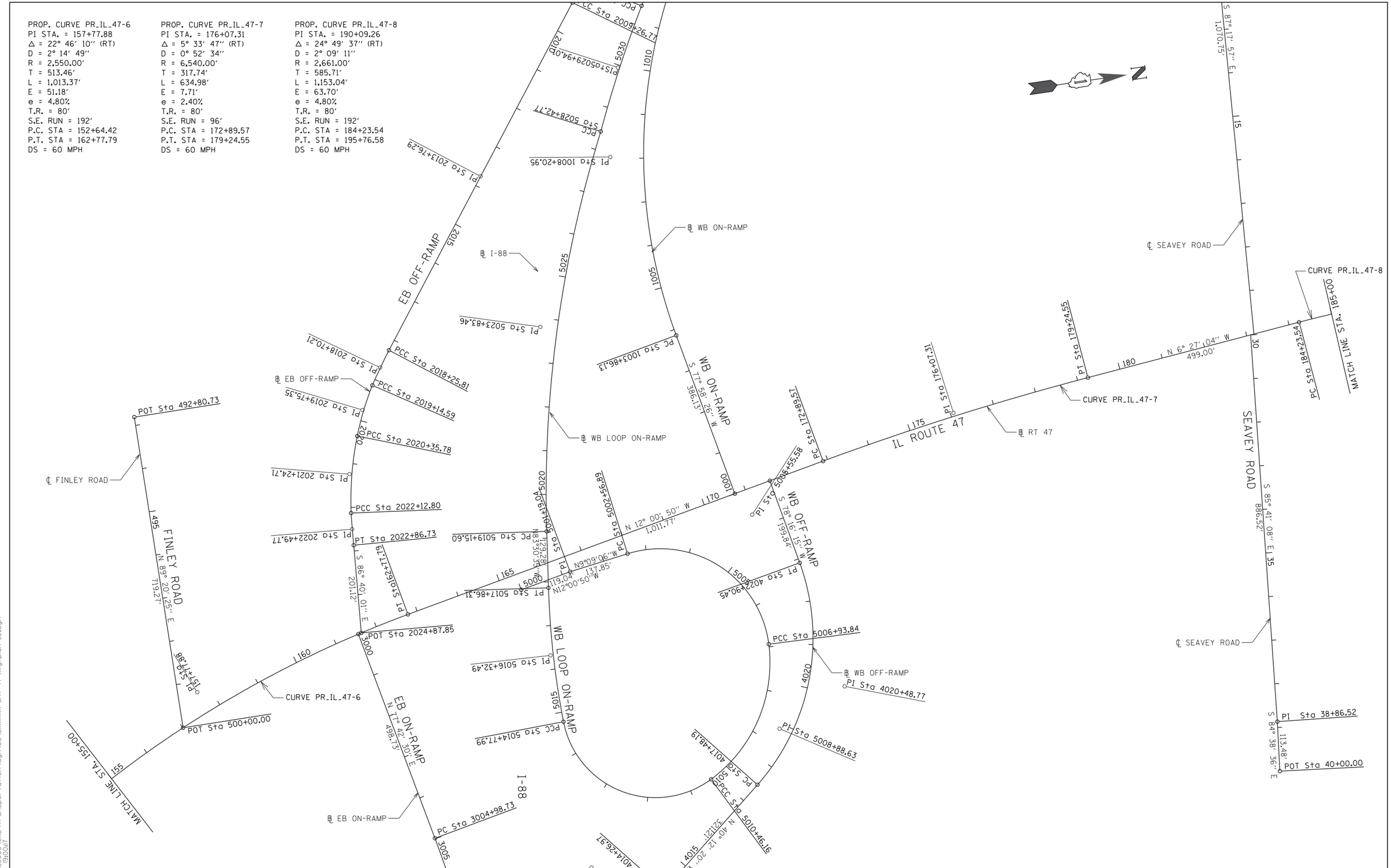
SCALE: 1″=100′ | SHEET 2 OF 202 SHEETS | STA. 100+00 TO STA. 155+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	14-00028-00-CH	KANE		
		CONTRACT NO.		
	ILLINOIS	FED. AID PROJECT		

PROP. CURVE PR_IL_47-6
PI STA. = 157+77.88
Δ = 22° 46′ 10″ (RT)
D = 2° 14′ 49″
R = 2,550.00′
T = 513.46′
L = 1,013.37′
E = 51.18′
e = 4.80%
T.R. = 80′
S.E. RUN = 192′
P.C. STA = 152+64.42
P.T. STA = 162+77.79
DS = 60 MPH

PROP. CURVE PR_IL_47-7
PI STA. = 176+07.31
Δ = 5° 33′ 47″ (RT)
D = 0° 52′ 34″
R = 6,540.00′
T = 317.74′
L = 634.98′
E = 7.71′
e = 2.40%
T.R. = 80′
S.E. RUN = 96′
P.C. STA = 172+89.57
P.T. STA = 179+24.55
DS = 60 MPH

PROP. CURVE PR_IL_47-8
PI STA. = 190+09.26
Δ = 24° 49′ 37″ (RT)
D = 2° 09′ 11″
R = 2,661.00′
T = 585.71′
L = 1,153.04′
E = 63.70′
e = 4.80%
T.R. = 80′
S.E. RUN = 192′
P.C. STA = 184+23.54
P.T. STA = 195+76.58
DS = 60 MPH



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GRAEF 8501 W. Higgins Road; Suite 280 Chicago, Illinois 60631 (773) 399-0112

USER NAME = _USER_	DESIGNED - JWB	REVISED -	
	DRAWN - JWB	REVISED -	
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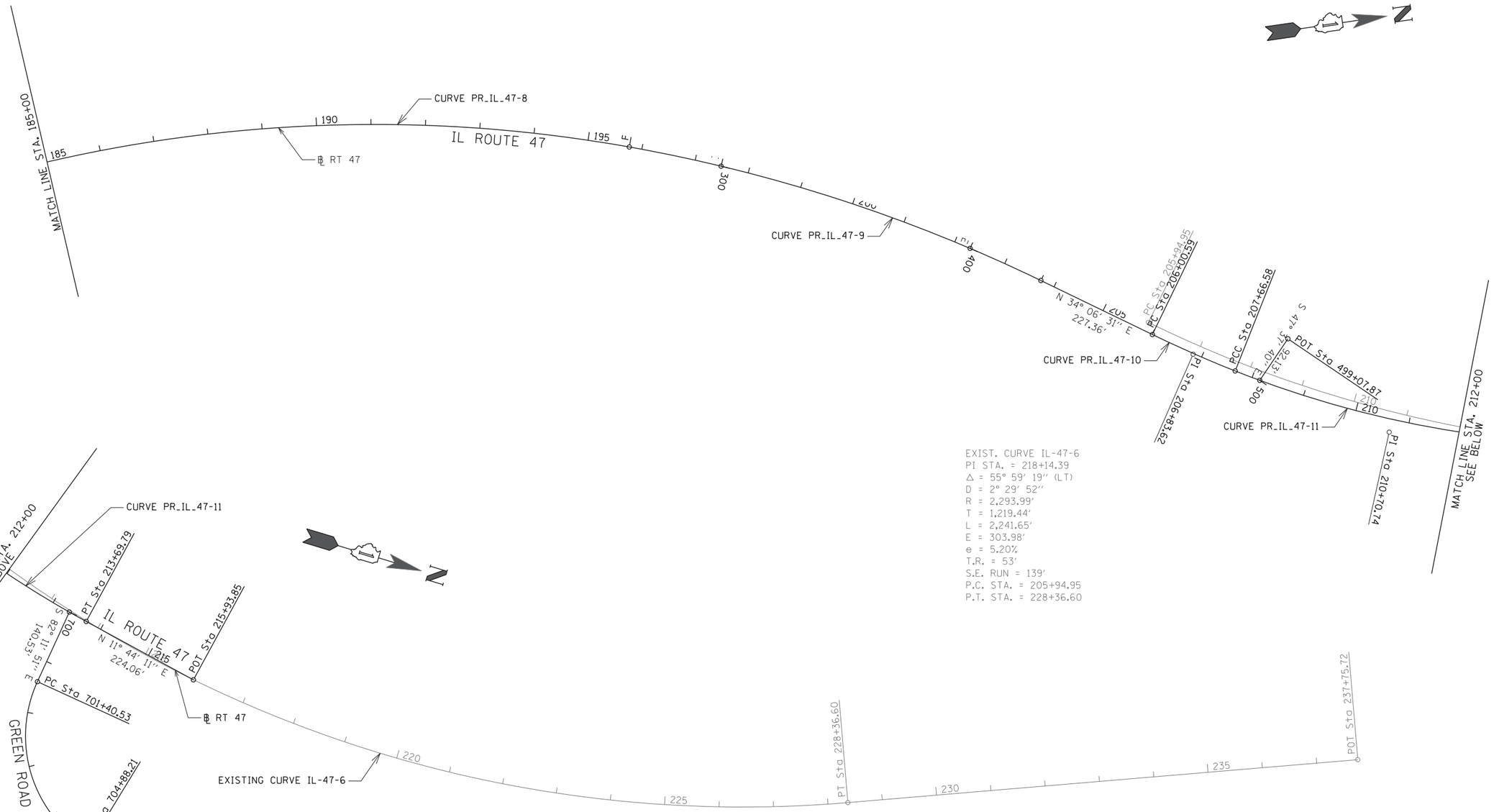
PLOT DATE = 06/25/18	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL ROUTE 47 AT I-88 INTERCHANGE
ALIGNMENT AND TIES

SCALE: 1"=100′ | SHEET 3 OF 202 SHEETS | STA. 155+00 TO STA. 185+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	14-00028-00-CH	KANE		
		CONTRACT NO.		
	ILLINOIS FED. AID PROJECT			



PROP. CURVE PR_IL_47-8
PI STA. = 190+09.26
Δ = 24° 49' 37" (RT)
D = 2° 09' 11"
R = 2,661.00'
T = 585.71'
L = 1,153.04'
E = 63.70'
e = 4.80%
T.R. = 80'
S.E. RUN = 192'
P.C. STA = 184+23.54
P.T. STA = 195+76.58
DS = 60 MPH

PROP. CURVE PR_IL_47-9
PI STA. = 199+77.43
Δ = 15° 43' 58" (RT)
D = 1° 58' 30"
R = 2,901.23'
T = 400.85'
L = 796.65'
E = 27.56'
e = 4.60%
T.R. = 94'
S.E. RUN = 215'
P.C. STA = 195+76.58
P.T. STA = 203+73.23
DS = 60 MPH

PROP. CURVE PR_IL_47-10
PI STA. = 206+83.62
Δ = 4° 10' 16" (LT)
D = 2° 30' 47"
R = 2,280.00'
T = 83.03'
L = 165.98'
E = 1.51'
e = 5.20%
T.R. = 94'
S.E. RUN = 244'
P.C. STA = 206+00.59
P.T. STA = 207+66.58
DS = 60 MPH

PROP. CURVE PR_IL_47-11
PI STA. = 210+70.74
Δ = 18° 12' 05" (LT)
D = 3° 01' 03"
R = 1,898.86'
T = 304.17'
L = 603.21'
E = 24.21'
e = 5.60%
T.R. = 53'
S.E. RUN = 149'
P.C. STA = 207+66.58
P.T. STA = 213+69.79
DS = 60 MPH

PROP. CURVE PR_GREEN-1
PI STA. = 703+53.08
Δ = 83° 10' 33" (LT)
D = 23° 55' 24"
R = 239.50'
T = 212.54'
L = 347.68'
E = 80.71'
e = 6.00%
T.R. = 34'
S.E. RUN = 103'
P.C. STA = 701+40.53
P.T. STA = 704+88.21
DS = 25 MPH

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06/25/18 19:00:21

GRAEF 8501 W. Higgins Road; Suite 280 Chicago, Illinois 60631 (773) 399-0112

USER NAME = _USER_	DESIGNED - JWB	REVISED -	
	DRAWN - JWB	REVISED -	
PLOT SCALE = 100.0000 ' / in.	CHECKED - PMJ	REVISED -	
PLOT DATE = 06/25/18	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL ROUTE 47 AT I-88 INTERCHANGE
ALIGNMENT AND TIES

SCALE: 1"=100' | SHEET 4 OF 202 SHEETS | STA. 184+00 TO STA. 216+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	14-00028-00-CH	KANE		
		CONTRACT NO.		
		ILLINOIS FED. AID PROJECT		

PROP. CURVE PR_WBON-1
PI STA. = 1008+20.95
Δ = 39° 50′ 10″ (RT)
D = 4° 46′ 29″
R = 1,200.00′
T = 434.82′
L = 834.33′
E = 76.35′
e = 8.00%
T.R. = 54′
S.E. RUN = 231′
P.C. STA = 1003+86.13
P.T. STA = 1012+20.45
DS = 60 MPH

PROP. CURVE PR_WBON-2
PI STA. = 1015+17.79
Δ = 17° 41′ 49″ (RT)
D = 2° 59′ 59″
R = 1,910.00′
T = 297.34′
L = 589.95′
E = 23.01′
e = 6.80%
T.R. = 40′
S.E. RUN = 142′
P.C. STA = 1012+20.45
P.T. STA = 1018+10.40
DS = 60 MPH

PROP. CURVE PR_WBON-3
PI STA. = 1020+20.99
Δ = 8° 35′ 40″ (RT)
D = 2° 02′ 40″
R = 2,802.58′
T = 210.59′
L = 420.39′
E = 7.90′
e = 6.6%
P.C. STA = 1018+10.40
P.T. STA = 1022+30.79
DS = 70 MPH

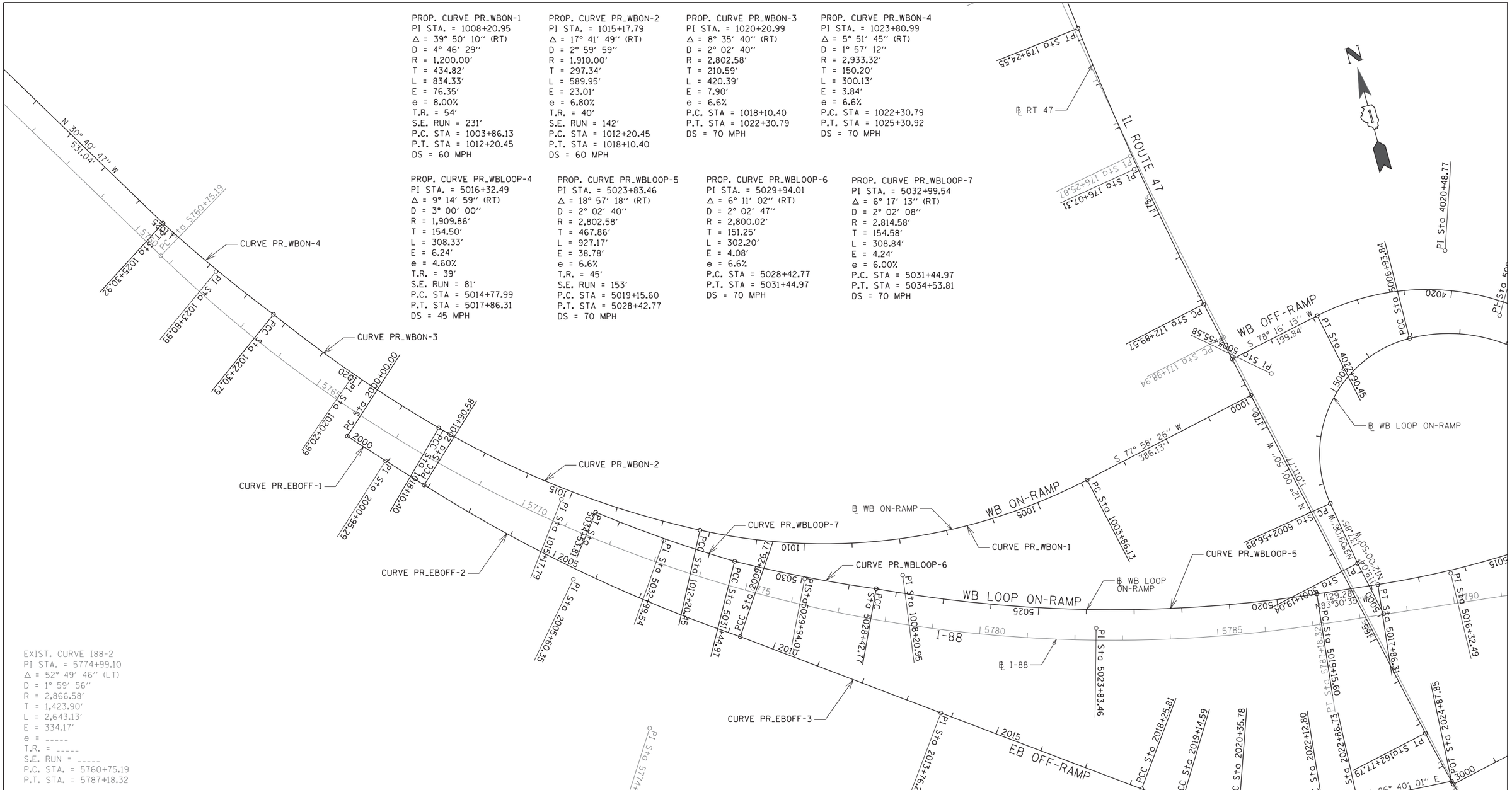
PROP. CURVE PR_WBON-4
PI STA. = 1023+80.99
Δ = 5° 51′ 45″ (RT)
D = 1° 57′ 12″
R = 2,933.32′
T = 150.20′
L = 300.13′
E = 3.84′
e = 6.6%
P.C. STA = 1022+30.79
P.T. STA = 1025+30.92
DS = 70 MPH

PROP. CURVE PR_WBLOOP-4
PI STA. = 5016+32.49
Δ = 9° 14′ 59″ (RT)
D = 3° 00′ 00″
R = 1,909.86′
T = 154.50′
L = 308.33′
E = 6.24′
e = 4.60%
T.R. = 39′
S.E. RUN = 81′
P.C. STA = 5014+77.99
P.T. STA = 5017+86.31
DS = 45 MPH

PROP. CURVE PR_WBLOOP-5
PI STA. = 5023+83.46
Δ = 18° 57′ 18″ (RT)
D = 2° 02′ 40″
R = 2,802.58′
T = 467.86′
L = 927.17′
E = 38.78′
e = 6.6%
T.R. = 45′
S.E. RUN = 153′
P.C. STA = 5019+15.60
P.T. STA = 5028+42.77
DS = 70 MPH

PROP. CURVE PR_WBLOOP-6
PI STA. = 5029+94.01
Δ = 6° 11′ 02″ (RT)
D = 2° 02′ 47″
R = 2,800.02′
T = 151.25′
L = 302.20′
E = 4.08′
e = 6.6%
P.C. STA = 5028+42.77
P.T. STA = 5031+44.97
DS = 70 MPH

PROP. CURVE PR_WBLOOP-7
PI STA. = 5032+99.54
Δ = 6° 17′ 13″ (RT)
D = 2° 02′ 08″
R = 2,814.58′
T = 154.58′
L = 308.84′
E = 4.24′
e = 6.00%
P.C. STA = 5031+44.97
P.T. STA = 5034+53.81
DS = 70 MPH



EXIST. CURVE I88-2
PI STA. = 5774+99.10
Δ = 52° 49′ 46″ (LT)
D = 1° 59′ 56″
R = 2,866.58′
T = 1,423.90′
L = 2,643.13′
E = 334.17′
e = -----
T.R. = -----
S.E. RUN = -----
P.C. STA. = 5760+75.19
P.T. STA. = 5787+18.32

PROP. CURVE PR_EBOFF-1
PI STA. = 2000+95.29
Δ = 0° 51′ 06″ (LT)
D = 0° 26′ 49″
R = 12,820.80′
T = 95.29′
L = 190.58′
E = 0.35′
P.C. STA = 2000+00.00
P.T. STA = 2001+90.58

PROP. CURVE PR_EBOFF-2
PI STA. = 2005+60.35
Δ = 13° 20′ 26″ (LT)
D = 1° 48′ 43″
R = 3,161.88′
T = 369.77′
L = 736.20′
E = 21.55′
P.C. STA = 2001+90.58
P.T. STA = 2009+26.77

PROP. CURVE PR_EBOFF-3
PI STA. = 2013+76.29
Δ = 0° 06′ 13″ (LT)
D = 0° 00′ 41″
R = 497,470.94′
T = 449.52′
L = 899.03′
E = 0.20′
P.C. STA = 2009+26.77
P.T. STA = 2018+25.81

PROP. CURVE PR_EBOFF-4
PI STA. = 2018+70.21
Δ = 3° 34′ 23″ (LT)
D = 4° 01′ 28″
R = 1,423.65′
T = 44.41′
L = 88.78′
E = 0.69′
P.C. STA = 2018+25.81
P.T. STA = 2019+14.59

PROP. CURVE PR_EBOFF-5
PI STA. = 2019+75.35
Δ = 10° 23′ 08″ (LT)
D = 8° 34′ 12″
R = 668.57′
T = 60.76′
L = 121.19′
E = 2.76′
e = 5.4%
S.E. RUN = 38′
P.C. STA = 2019+14.59
P.T. STA = 2020+35.78
DS = 30 MPH

PROP. CURVE PR_EBOFF-6
PI STA. = 2021+24.71
Δ = 13° 37′ 53″ (LT)
D = 7° 42′ 01″
R = 744.09′
T = 88.93′
L = 177.03′
E = 5.30′
e = 5.0%
T.R. = 33′
S.E. RUN = 86′
P.C. STA = 2020+35.78
P.T. STA = 2022+12.80
DS = 30 MPH

PROP. CURVE PR_EBOFF-7
PI STA. = 2022+49.77
Δ = 1° 49′ 37″ (LT)
D = 2° 28′ 17″
R = 2,318.46′
T = 36.97′
L = 73.93′
E = 0.29′
e = 2.0%
P.C. STA = 2022+12.80
P.T. STA = 2022+86.73

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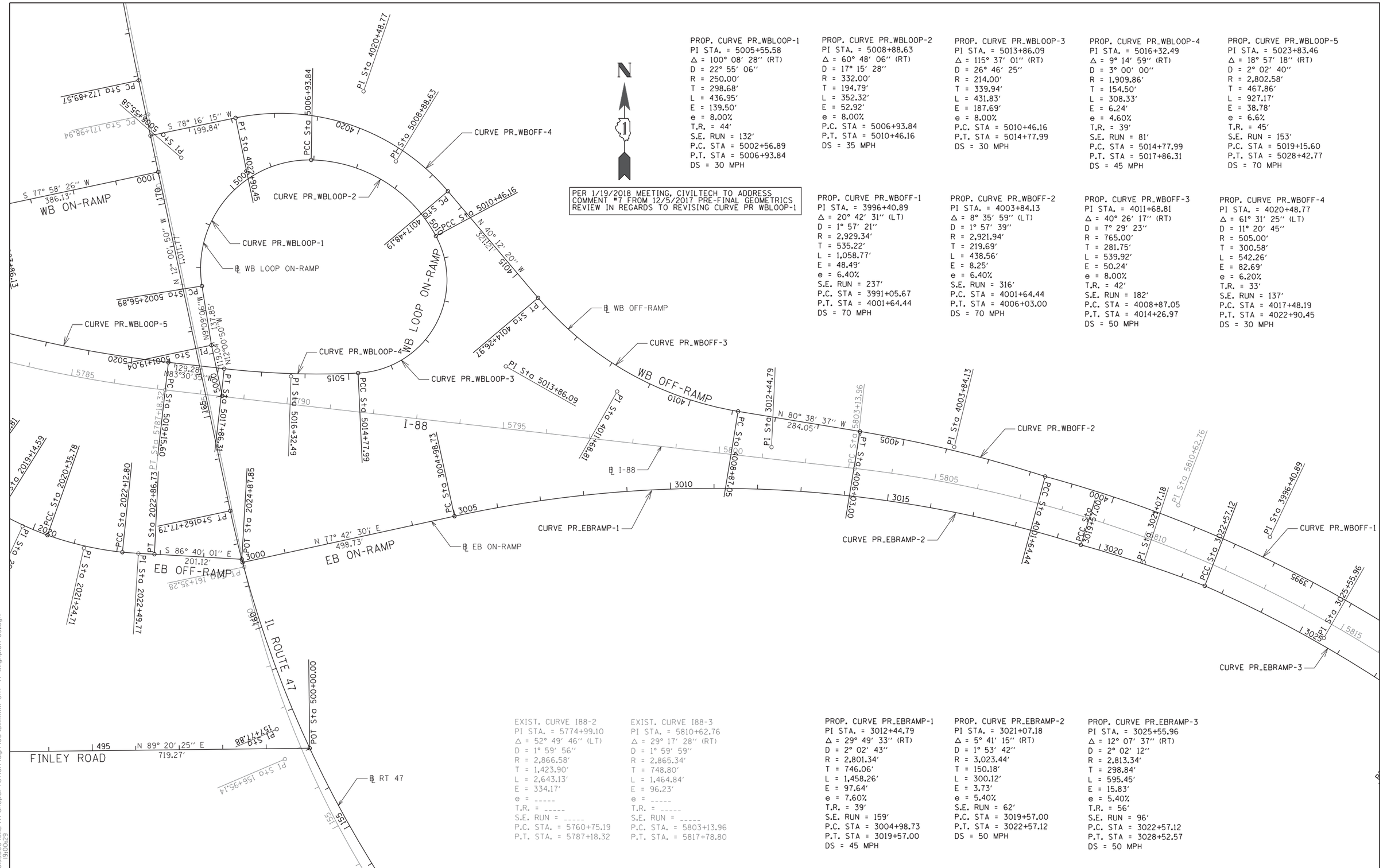
USER NAME = _USER_	DESIGNED - JWB	REVISED -	
	DRAWN - JWB	REVISED -	
PLOT SCALE = 100.0000 ' / in.	CHECKED - PMJ	REVISED -	
PLOT DATE = 06/25/18	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL ROUTE 47 AT I-88 INTERCHANGE
ALIGNMENT AND TIES

SCALE: SHEET 5 OF 202 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	14-00028-00-CH	KANE		
		CONTRACT NO.		
		ILLINOIS FED. AID PROJECT		



PER 1/19/2018 MEETING, CIVILTECH TO ADDRESS COMMENT #7 FROM 12/5/2017 PRE-FINAL GEOMETRICS REVIEW IN REGARDS TO REVISING CURVE PR WBLOOP-1

PROP. CURVE PR_WBLOOP-1
PI STA. = 5005+55.58
Δ = 100° 08′ 28″ (RT)
D = 22° 55′ 06″
R = 250.00′
T = 298.68′
L = 436.95′
E = 139.50′
e = 8.00%
T.R. = 44′
S.E. RUN = 132′
P.C. STA = 5002+56.89
P.T. STA = 5006+93.84
DS = 30 MPH

PROP. CURVE PR_WBLOOP-2
PI STA. = 5008+88.63
Δ = 60° 48′ 06″ (RT)
D = 17° 15′ 28″
R = 332.00′
T = 194.79′
L = 352.32′
E = 52.92′
e = 8.00%
P.C. STA = 5006+93.84
P.T. STA = 5010+46.16
DS = 35 MPH

PROP. CURVE PR_WBLOOP-3
PI STA. = 5013+86.09
Δ = 115° 37′ 01″ (RT)
D = 26° 46′ 25″
R = 214.00′
T = 339.94′
L = 431.83′
E = 187.69′
e = 8.00%
P.C. STA = 5010+46.16
P.T. STA = 5014+77.99
DS = 30 MPH

PROP. CURVE PR_WBLOOP-4
PI STA. = 5016+32.49
Δ = 9° 14′ 59″ (RT)
D = 3° 00′ 00″
R = 1,909.86′
T = 154.50′
L = 308.33′
E = 6.24′
e = 4.60%
T.R. = 39′
S.E. RUN = 81′
P.C. STA = 5014+77.99
P.T. STA = 5017+86.31
DS = 45 MPH

PROP. CURVE PR_WBLOOP-5
PI STA. = 5023+83.46
Δ = 18° 57′ 18″ (RT)
D = 2° 02′ 40″
R = 2,802.58′
T = 467.86′
L = 927.17′
E = 38.78′
e = 6.6%
T.R. = 45′
S.E. RUN = 153′
P.C. STA = 5019+15.60
P.T. STA = 5028+42.77
DS = 70 MPH

PROP. CURVE PR_WBOFF-1
PI STA. = 3996+40.89
Δ = 20° 42′ 31″ (LT)
D = 1° 57′ 21″
R = 2,929.34′
T = 535.22′
L = 1,058.77′
E = 48.49′
e = 6.40%
S.E. RUN = 237′
P.C. STA = 3991+05.67
P.T. STA = 4001+64.44
DS = 70 MPH

PROP. CURVE PR_WBOFF-2
PI STA. = 4003+84.13
Δ = 8° 35′ 59″ (LT)
D = 1° 57′ 39″
R = 2,921.94′
T = 219.69′
L = 438.56′
E = 8.25′
e = 6.40%
S.E. RUN = 316′
P.C. STA = 4001+64.44
P.T. STA = 4006+03.00
DS = 70 MPH

PROP. CURVE PR_WBOFF-3
PI STA. = 4011+68.81
Δ = 40° 26′ 17″ (RT)
D = 7° 29′ 23″
R = 765.00′
T = 281.75′
L = 539.92′
E = 50.24′
e = 8.00%
T.R. = 42′
S.E. RUN = 182′
P.C. STA = 4008+87.05
P.T. STA = 4014+26.97
DS = 50 MPH

PROP. CURVE PR_WBOFF-4
PI STA. = 4020+48.77
Δ = 61° 31′ 25″ (LT)
D = 11° 20′ 45″
R = 505.00′
T = 300.58′
L = 542.26′
E = 82.69′
e = 6.20%
T.R. = 33′
S.E. RUN = 137′
P.C. STA = 4017+48.19
P.T. STA = 4022+90.45
DS = 30 MPH

EXIST. CURVE I88-2
PI STA. = 5774+99.10
Δ = 52° 49′ 46″ (LT)
D = 1° 59′ 56″
R = 2,866.58′
T = 1,423.90′
L = 2,643.13′
E = 334.17′
e = -----
T.R. = -----
S.E. RUN = -----
P.C. STA. = 5760+75.19
P.T. STA. = 5787+18.32

EXIST. CURVE I88-3
PI STA. = 5810+62.76
Δ = 29° 17′ 28″ (RT)
D = 1° 59′ 59″
R = 2,865.34′
T = 748.80′
L = 1,464.84′
E = 96.23′
e = -----
T.R. = -----
S.E. RUN = -----
P.C. STA. = 5803+13.96
P.T. STA. = 5817+78.80

PROP. CURVE PR_EBRAMP-1
PI STA. = 3012+44.79
Δ = 29° 49′ 33″ (RT)
D = 2° 02′ 43″
R = 2,801.34′
T = 746.06′
L = 1,458.26′
E = 97.64′
e = 7.60%
T.R. = 39′
S.E. RUN = 159′
P.C. STA = 3004+98.73
P.T. STA = 3019+57.00
DS = 45 MPH

PROP. CURVE PR_EBRAMP-2
PI STA. = 3021+07.18
Δ = 5° 41′ 15″ (RT)
D = 1° 53′ 42″
R = 3,023.44′
T = 150.18′
L = 300.12′
E = 3.73′
e = 5.40%
S.E. RUN = 62′
P.C. STA = 3019+57.00
P.T. STA = 3022+57.12
DS = 50 MPH

PROP. CURVE PR_EBRAMP-3
PI STA. = 3025+55.96
Δ = 12° 07′ 37″ (RT)
D = 2° 02′ 12″
R = 2,813.34′
T = 298.84′
L = 595.45′
E = 15.83′
e = 5.40%
T.R. = 56′
S.E. RUN = 96′
P.C. STA = 3022+57.12
P.T. STA = 3028+52.57
DS = 50 MPH

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USER NAME = _USER_	DESIGNED - JWB	REVISED -	
	DRAWN - JWB	REVISED -	
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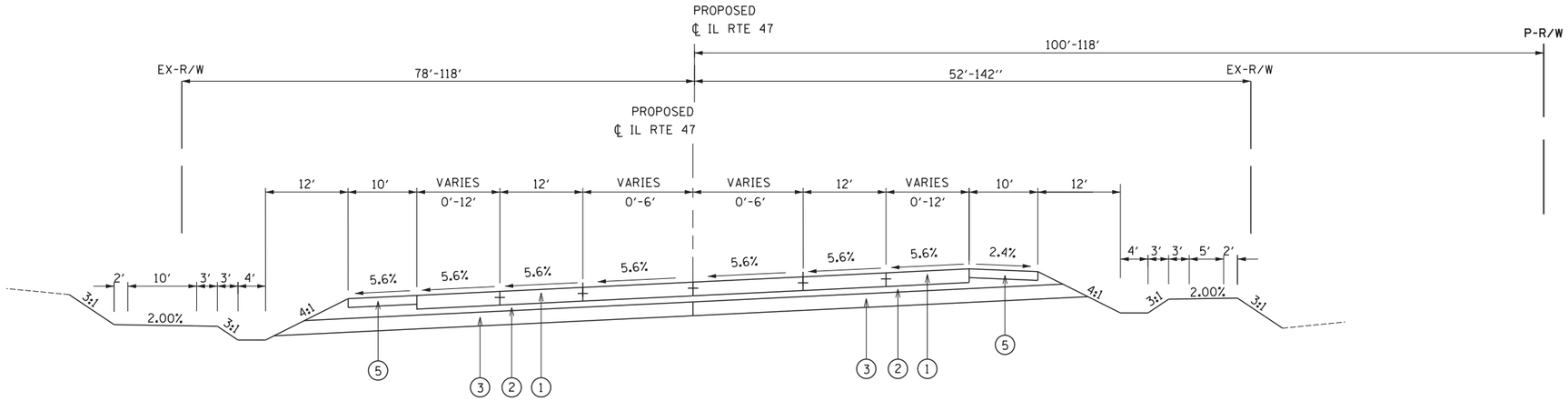
PLOT DATE = 06/25/18	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL ROUTE 47 AT I-88 INTERCHANGE

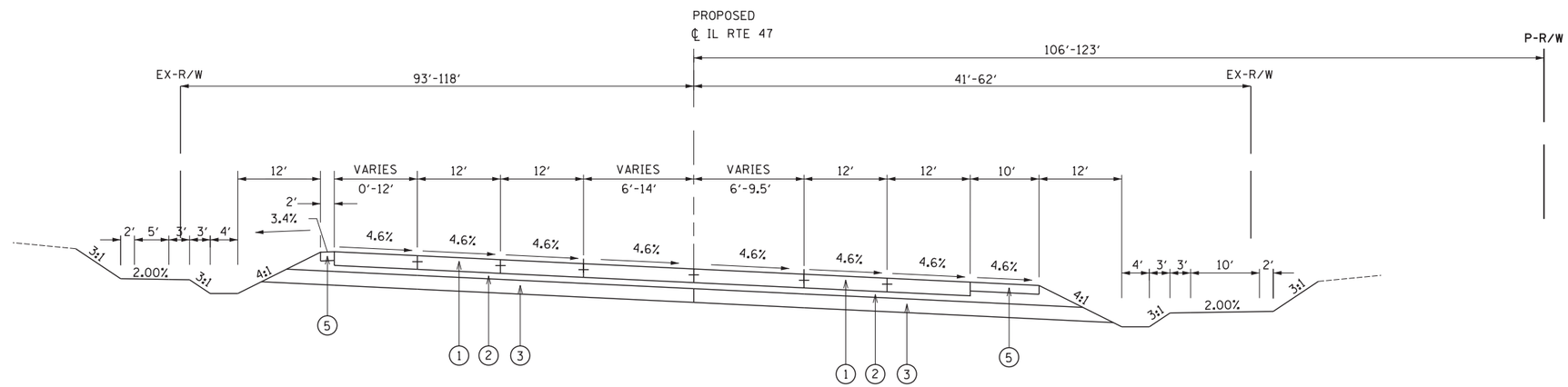
SCALE: | SHEET 6 OF 202 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	14-00028-00-CH	KANE		
		CONTRACT NO.		
		ILLINOIS FED. AID PROJECT		



PROPOSED TYPICAL SECTION - IL RTE 47

STA. 203+82 TO STA. 215+94

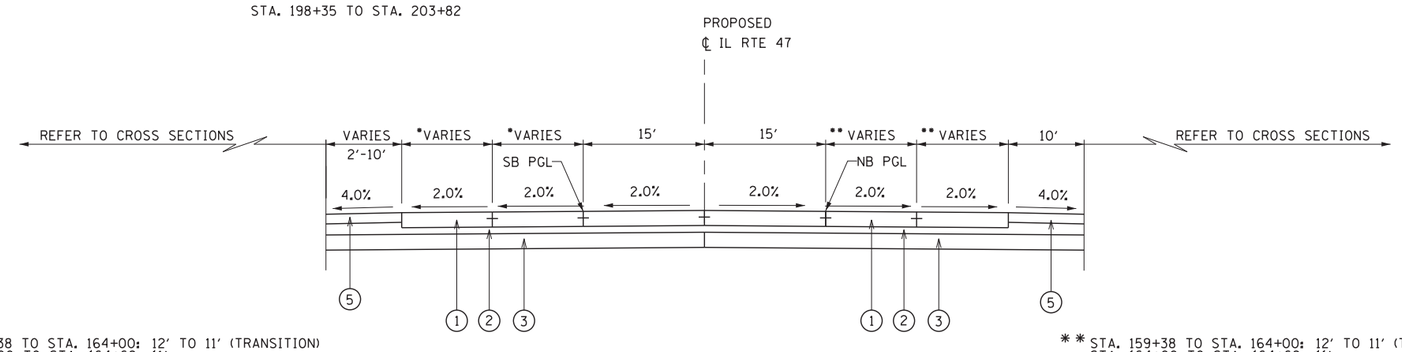


PROPOSED TYPICAL SECTION - IL RTE 47

STA. 198+35 TO STA. 203+82

LEGEND:

1. PORTLAND CEMENT CONCRETE PAVEMENT - 9¾''
2. STABILIZED SUBBASE - HOT-MIX ASPHALT, 4½''
3. AGGREGATE SUBGRADE IMPROVEMENT, 12''
4. COMBINATION CONCRETE CURB AND GUTTER, TYPE M-4.24
5. HOT-MIX ASPHALT SHOULDER, 8''
6. TOPSOIL
7. HOT MIX ASPHALT, 6''
8. FULL DEPTH ASPHALT PAVEMENT, 10''
9. SUBGRADE AGGREGATE SUBBASE, 12''
10. ASPHALT SHOULDER, 6''
11. AGGREGATE SHOULDER, 6''
12. PIPE UNDERDRAIN



* STA. 159+38 TO STA. 164+00: 12' TO 11' (TRANSITION)
STA. 164+00 TO STA. 164+68: 11'
STA. 166+34 TO STA. 167+16: 11'
STA. 167+16 TO STA. 171+75: 11' TO 12' (TRANSITION)

** STA. 159+38 TO STA. 164+00: 12' TO 11' (TRANSITION)
STA. 164+00 TO STA. 164+68: 11'
STA. 166+34 TO STA. 167+16: 11'
STA. 167+16 TO STA. 169+45: 11' TO 12' (TRANSITION)

PROPOSED TYPICAL SECTION - IL RTE 47

STA. 161+57 TO STA. 164+68
STA. 166+34 TO STA. 170+98

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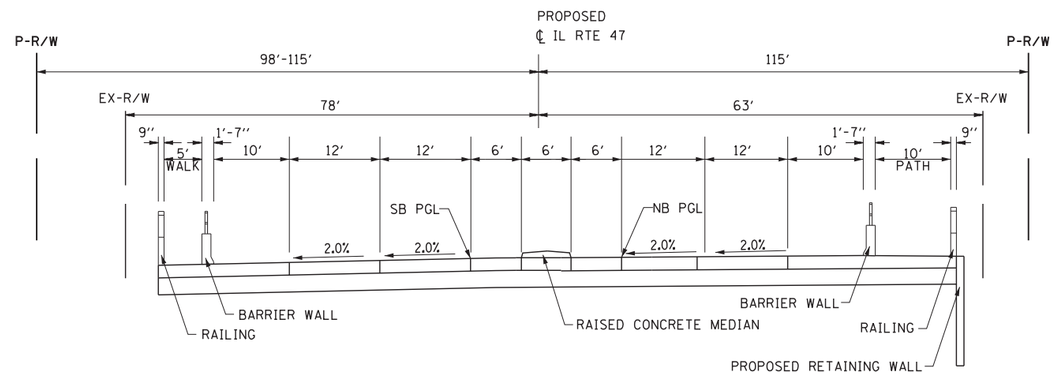
	DRAWN - JWB	REVISED -	
PLOT SCALE = 10.0000 ' / in.	CHECKED -	REVISED -	
PLOT DATE = 06/25/18	DATE - 01/09/2017	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL RTE 47 & I-88 INTERCHANGE IMPROVEMENTS
TYPICAL SECTIONS

SCALE: | SHEET 7 OF 202 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	14-00028-00-CH	KANE		
		CONTRACT NO. XXXXX		
	ILLINOIS	FED. AID PROJECT P-91-015-14		

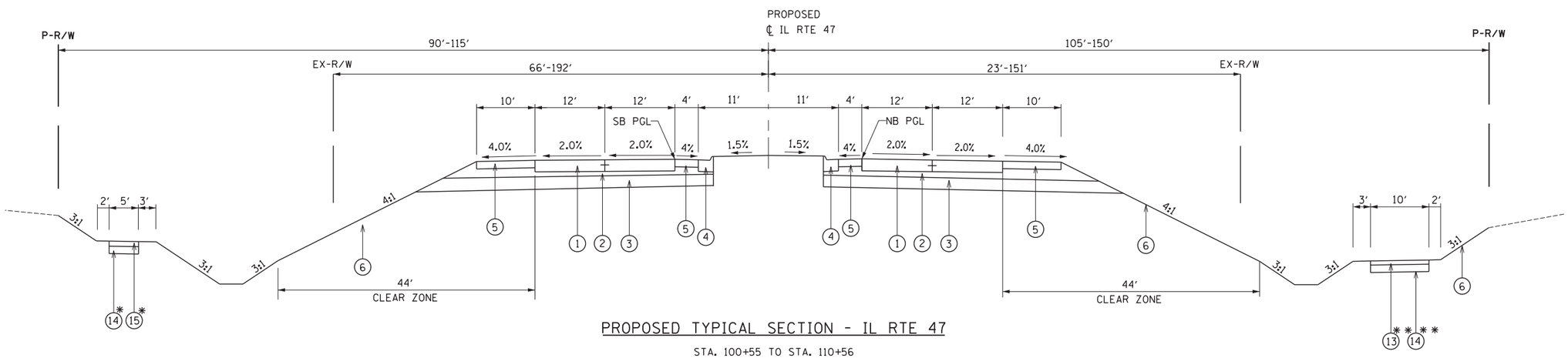


PROPOSED TYPICAL SECTION - IL RTE 47 OVER BLACKBERRY CREEK

STA. 110+56 TO STA. 112+10

LEGEND:

1. PORTLAND CEMENT CONCRETE PAVEMENT - 9¾"
2. STABILIZED SUBBASE - HOT-MIX ASPHALT, 4½"
3. AGGREGATE SUBGRADE IMPROVEMENT, 12"
4. COMBINATION CONCRETE CURB AND GUTTER, TYPE M-4.24
5. HOT-MIX ASPHALT SHOULDER, 8"
6. TOPSOIL
7. HOT MIX ASPHALT, 6"
8. FULL DEPTH ASPHALT PAVEMENT, 10"
9. SUBGRADE AGGREGATE SUBBASE, 12"
10. ASPHALT SHOULDER, 6"
11. AGGREGATE SHOULDER, 6"
12. PIPE UNDERDRAIN
13. ASPHALT PATH, 3"
14. AGGREGATE BASE COURSE, 6"
15. CONCRETE SIDEWALK, 5"



PROPOSED TYPICAL SECTION - IL RTE 47

STA. 100+55 TO STA. 110+56
STA. 112+10 TO STA. 161+57
STA. 170+98 TO STA. 198+35

* FUTURE SIDEWALK GRADING ONLY (THIS CONTRACT)

** STA. 111+30 TO STA. 121+00
PAVE PATH THROUGH FOREST PRESERVE ADJACENT TO BLACKBERRY CREEK. GRADE FOR PATH ON REMAINDER OF PROJECT.

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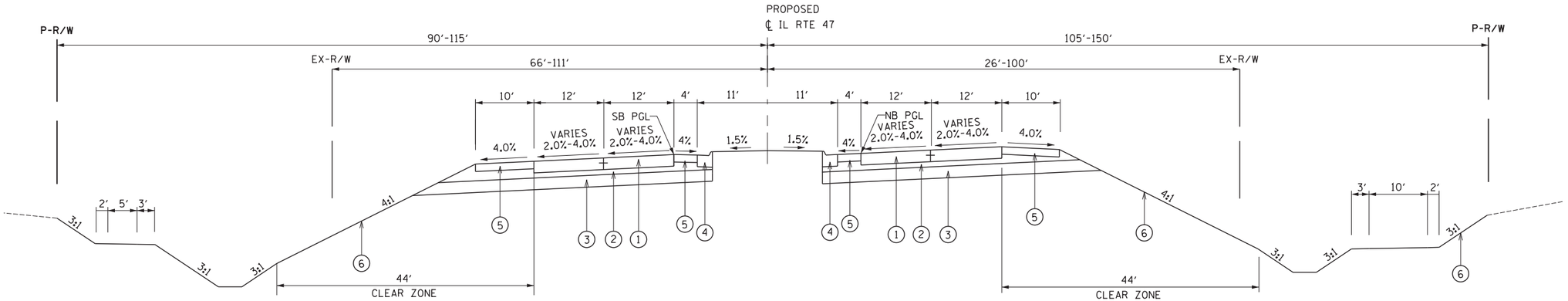
GRAEF 8501 W. Higgins Road; Suite 280 Chicago, Illinois 60631 (773) 399-0112	USER NAME = _USER_	DESIGNED - JWB	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	IL RTE 47 & I-88 INTERCHANGE IMPROVEMENTS TYPICAL SECTIONS
		DRAWN - JWB	REVISED -		
	PLOT SCALE = 10.0000 ' / in.	CHECKED -	REVISED -		
	PLOT DATE = 06/25/18	DATE - 01/09/2017	REVISED -		SCALE: SHEET 8 OF 202 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	14-00028-00-CH	KANE		
		CONTRACT NO. XXXXX		
	ILLINOIS	FED. AID PROJECT P-91-015-14		

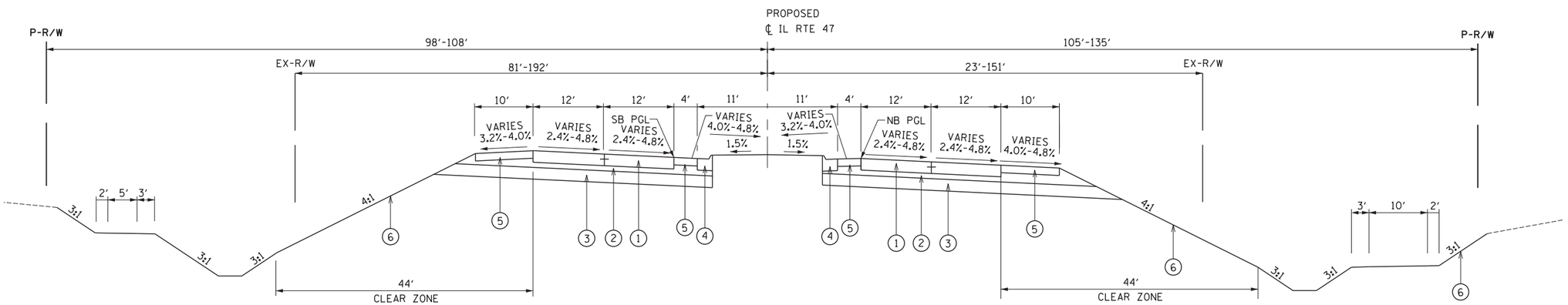


PROPOSED TYPICAL SECTION - IL RTE 47
(SUPERELEVATED SECTION TO THE LEFT)

*STA. 102+19 TO STA. 110+56
**STA. 112+10 TO STA. 127+09
STA. 127+33 TO STA. 142+16

SUPERELEVATION ROTATION ABOUT IL RTE 47 CENTERLINE:

* STA. 109+15 TO STA. 110+56
** STA. 112+10 TO STA. 113+35



PROPOSED TYPICAL SECTION - IL RTE 47
(SUPERELEVATED SECTION TO THE RIGHT)

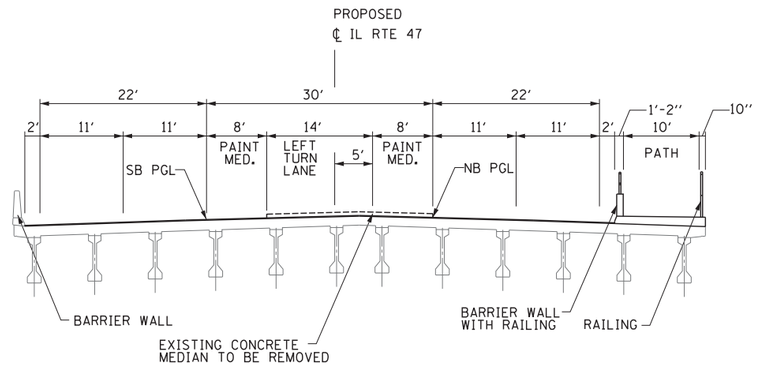
STA. 153+27 TO STA. 162+15
STA. 173+22 TO STA. 198+35

LEGEND:

1. PORTLAND CEMENT CONCRETE PAVEMENT - 9¾''
2. STABILIZED SUBBASE - HOT-MIX ASPHALT, 4½''
3. AGGREGATE SUBGRADE IMPROVEMENT, 12''
4. COMBINATION CONCRETE CURB AND GUTTER, TYPE M-4.24
5. HOT-MIX ASPHALT SHOULDER, 8''
6. TOPSOIL
7. HOT MIX ASPHALT, 6''
8. FULL DEPTH ASPHALT PAVEMENT, 10''
9. SUBGRADE AGGREGATE SUBBASE, 12''
10. ASPHALT SHOULDER, 6''
11. AGGREGATE SHOULDER, 6''
12. PIPE UNDERDRAIN

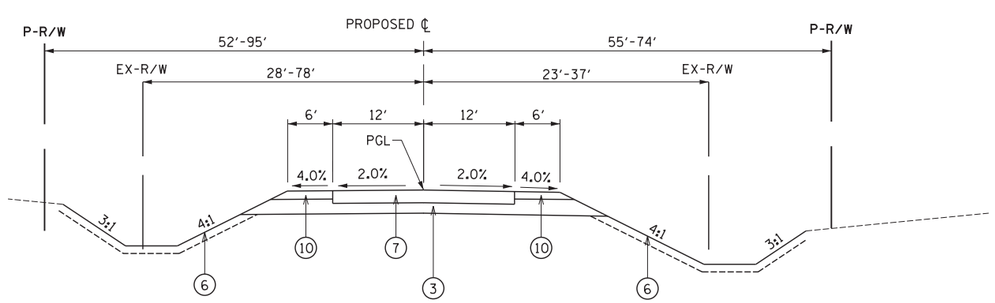
LEGEND:

1. PORTLAND CEMENT CONCRETE PAVEMENT - 9¾''
2. STABILIZED SUBBASE - HOT-MIX ASPHALT, 4½''
3. AGGREGATE SUBGRADE IMPROVEMENT, 12''
4. COMBINATION CONCRETE CURB AND GUTTER, TYPE M-4.24
5. HOT-MIX ASPHALT SHOULDER, 8''
6. TOPSOIL
7. HOT MIX ASPHALT, 6''
8. FULL DEPTH ASPHALT PAVEMENT, 10''
9. SUBGRADE AGGREGATE SUBBASE, 12''
10. ASPHALT SHOULDER, 6''
11. AGGREGATE SHOULDER, 6''
12. PIPE UNDERDRAIN



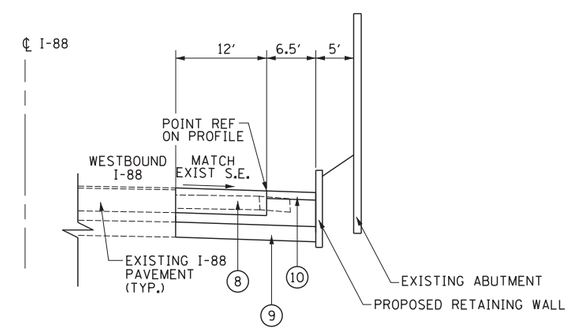
PROPOSED TYPICAL SECTION - IL RTE 47 OVER I-88

STA. 164+68 TO STA. 166+34



PROPOSED TYPICAL SECTION - SIDE ROADS

MERRILL RD STA. 300+00 TO STA. 304+29
SCOTT RD 396+61 TO 400+00
FINLEY RD 492+81 TO 500+00
SEAVEY RD (WEST) 10+85 TO 20+00
SEAVEY RD (EAST) 30+00 TO 39+90
GREEN RD 700+00 TO 703+25



PROPOSED TYPICAL SECTION - WB ENTRANCE RAMP ADJACENT TO I-88

STA. 5016+00 TO STA. 5017+25

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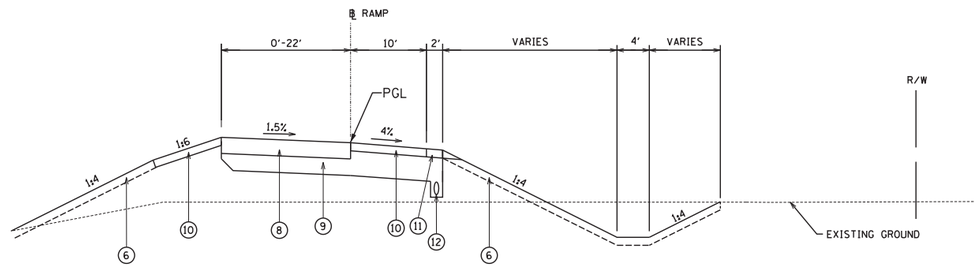
USER NAME = _USER_	DESIGNED - JWB	REVISED -	
	DRAWN - JWB	REVISED -	
PLOT SCALE = 10.0000 ' / in.	CHECKED -	REVISED -	
PLOT DATE = 06/25/18	DATE - 01/09/2017	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL RTE 47 & I-88 INTERCHANGE IMPROVEMENTS
TYPICAL SECTIONS

SCALE: | SHEET 10 OF 202 SHEETS | STA. | TO STA.

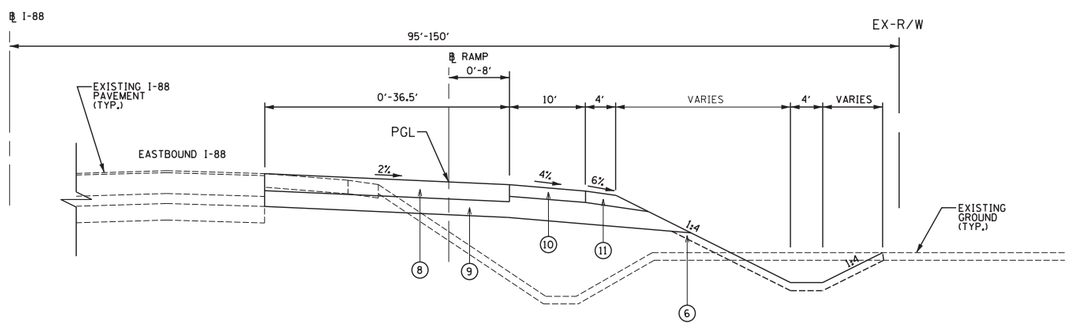
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	14-00028-00-CH	KANE		
		CONTRACT NO. XXXXX		
	ILLINOIS	FED. AID PROJECT P-91-015-14		



TYPICAL RAMP SECTION

LEGEND:

1. PORTLAND CEMENT CONCRETE PAVEMENT - 9 3/4''
2. STABILIZED SUBBASE - HOT-MIX ASPHALT, 4 1/2''
3. AGGREGATE SUBGRADE IMPROVEMENT, 12''
4. COMBINATION CONCRETE CURB AND GUTTER, TYPE M-4.24
5. HOT-MIX ASPHALT SHOULDER, 8''
6. TOPSOIL
7. HOT MIX ASPHALT, 6''
8. FULL DEPTH ASPHALT PAVEMENT, 10''
9. SUBGRADE AGGREGATE SUBBASE, 12''
10. ASPHALT SHOULDER, 6''
11. AGGREGATE SHOULDER, 6''
12. PIPE UNDERDRAIN



PROPOSED TYPICAL SECTION - RAMP ADJACENT TO I-88

RAMP STA. 1013+00 TO STA. 1024+34
RAMP STA. 3008+50 TO STA. 3021+46
RAMP STA. 4000+00 TO STA. 4006+00

H:\Jobs2015\2015300\CAD\Transportation\dgn\00\DIXXXXX-sht-TypicalSection-02.dgn
06/25/18 19:00:38

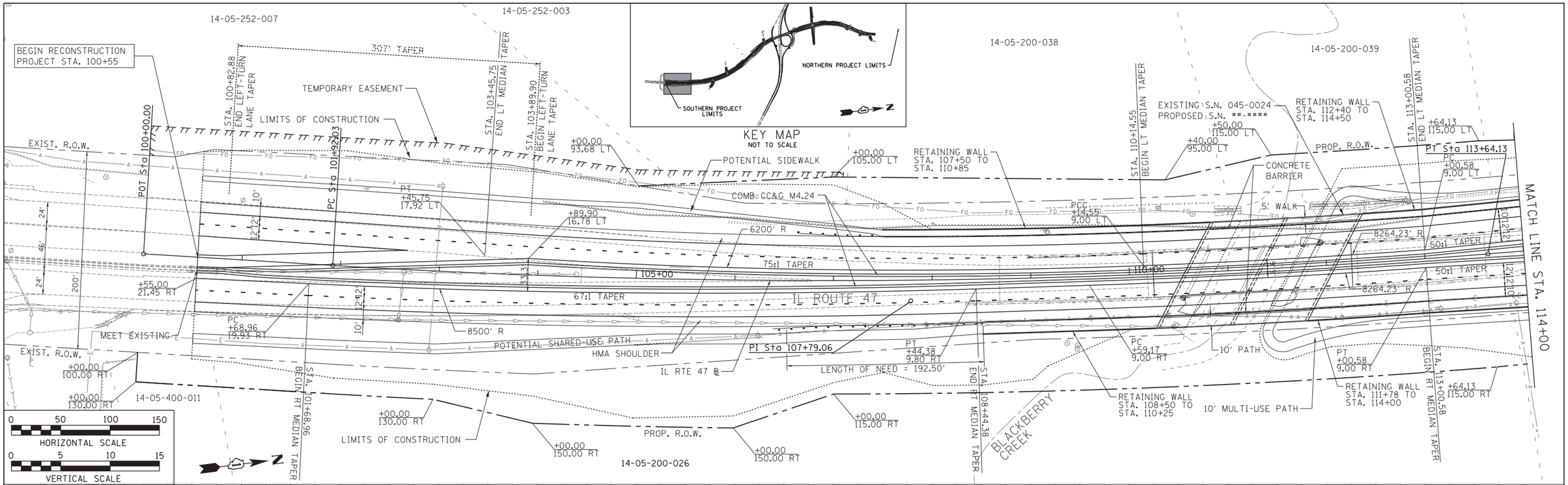
GRAEF 8501 W. Higgins Road; Suite 280 Chicago, Illinois 60631 (773) 399-0112

USER NAME = _USER_	DESIGNED - JWB	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
	DRAWN - JWB	REVISED -	
PLOT SCALE = 10.0000 ' / in.	CHECKED -	REVISED -	
PLOT DATE = 06/25/18	DATE - 01/09/2017	REVISED -	

IL RTE 47 & I-88 INTERCHANGE IMPROVEMENTS
TYPICAL SECTIONS

SCALE: | SHEET 11 OF 202 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	14-00028-00-CH	KANE		
		CONTRACT NO. XXXXX		
	ILLINOIS	FED. AID PROJECT P-91-015-14		



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USER NAME = _USER_	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 50.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 06/25/18	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

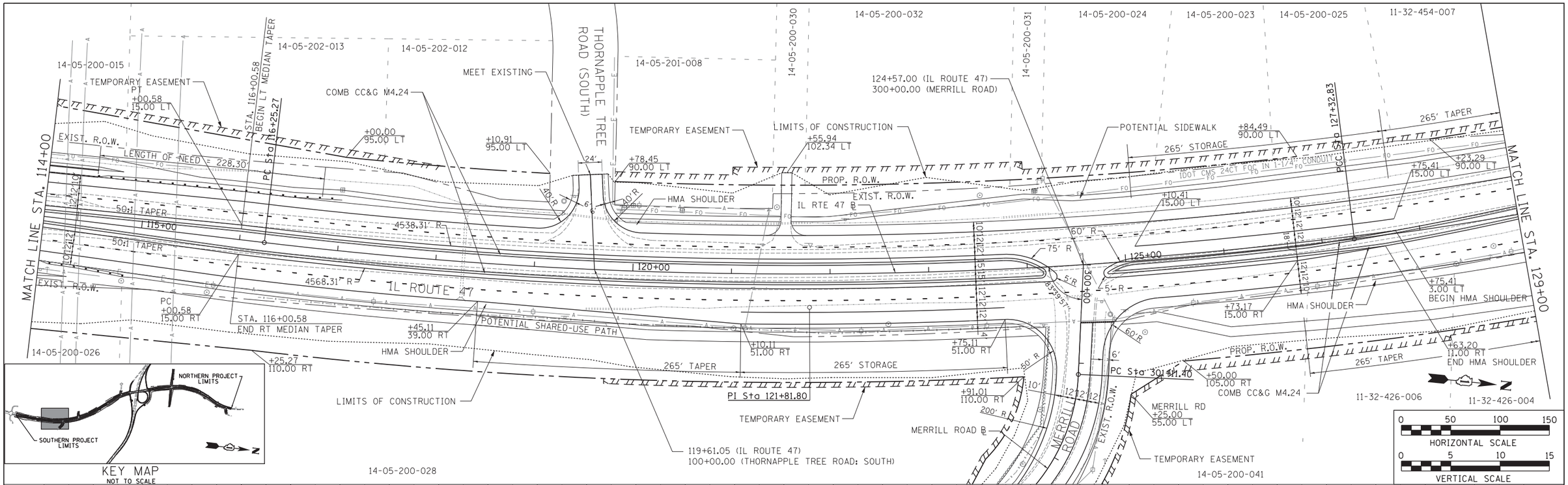
IL RTE 47
PLAN AND PROFILE

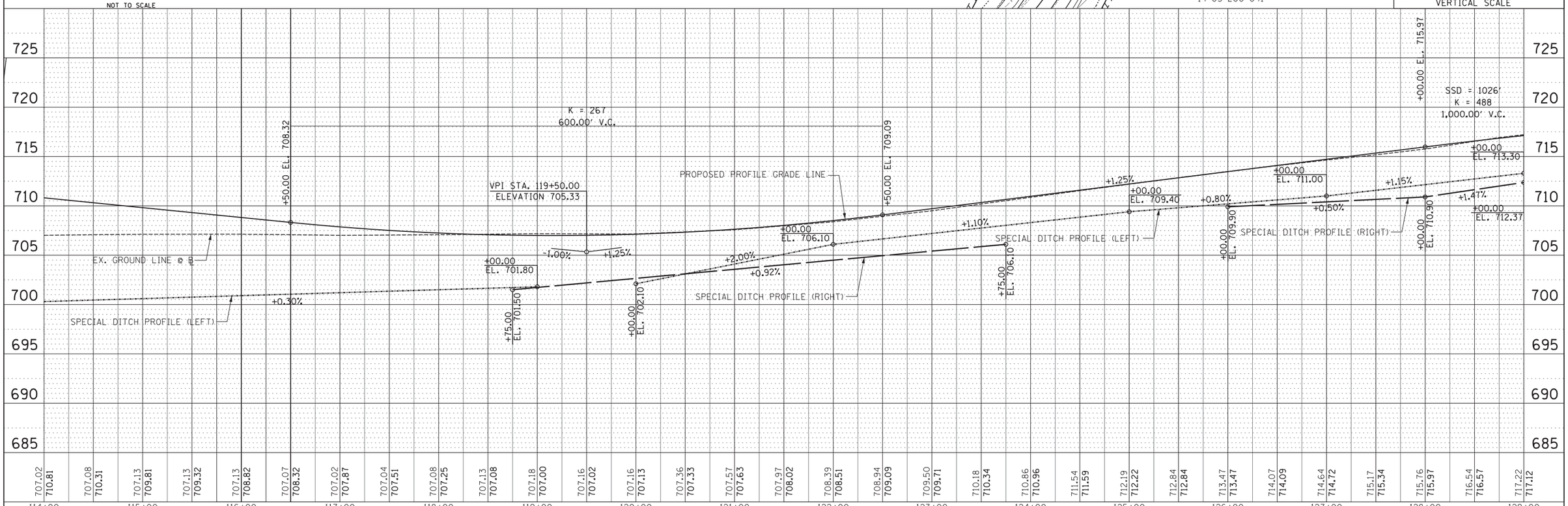
SCALE: SHEET 12 OF 202 SHEETS STA. 100+00 TO STA. 114+00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	14-00028-00-CH	KANE		

CONTRACT NO.

ILLINOIS FED. AID PROJECT P-91-015-14





GRAEF 8501 W. Higgins Road; Suite 280 Chicago, Illinois 60631 (773) 399-0112	USER NAME = _USER_	DESIGNED -	REVISED -
		DRAWN -	REVISED -
	PLOT SCALE = 50.0000 ' / in.	CHECKED -	REVISED -
	PLOT DATE = 06/25/18	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL RTE 47
PLAN AND PROFILE

SCALE: | SHEET 13 OF 202 SHEETS | STA. 114+00 TO STA. 129+00

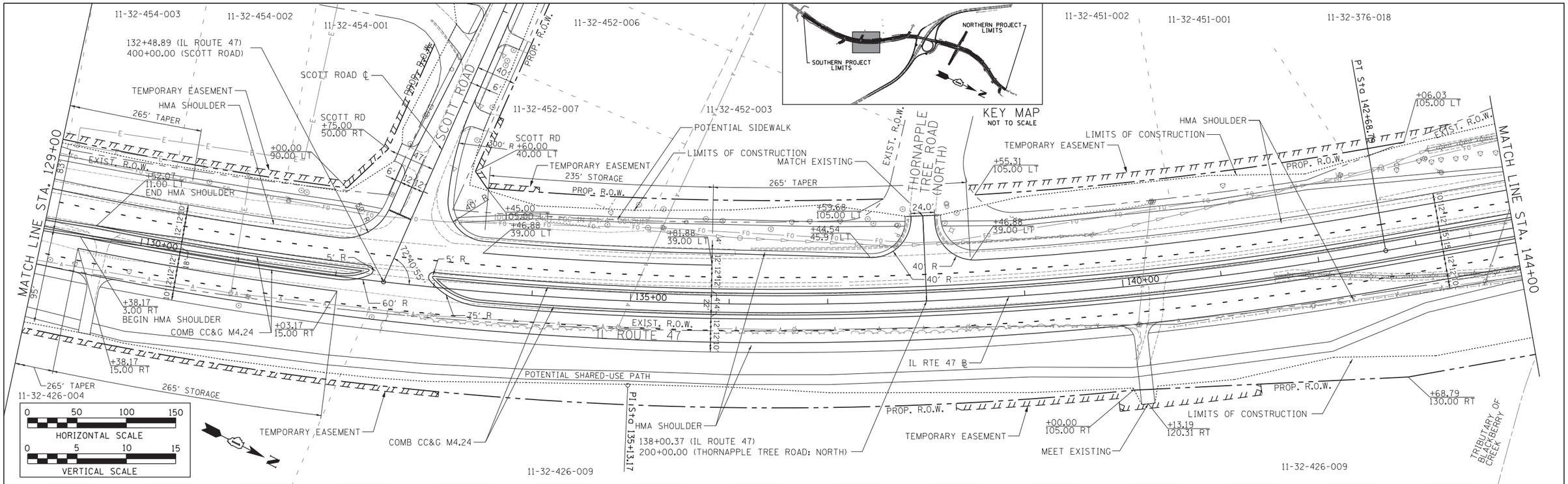
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	14-00028-00-CH	KANE		

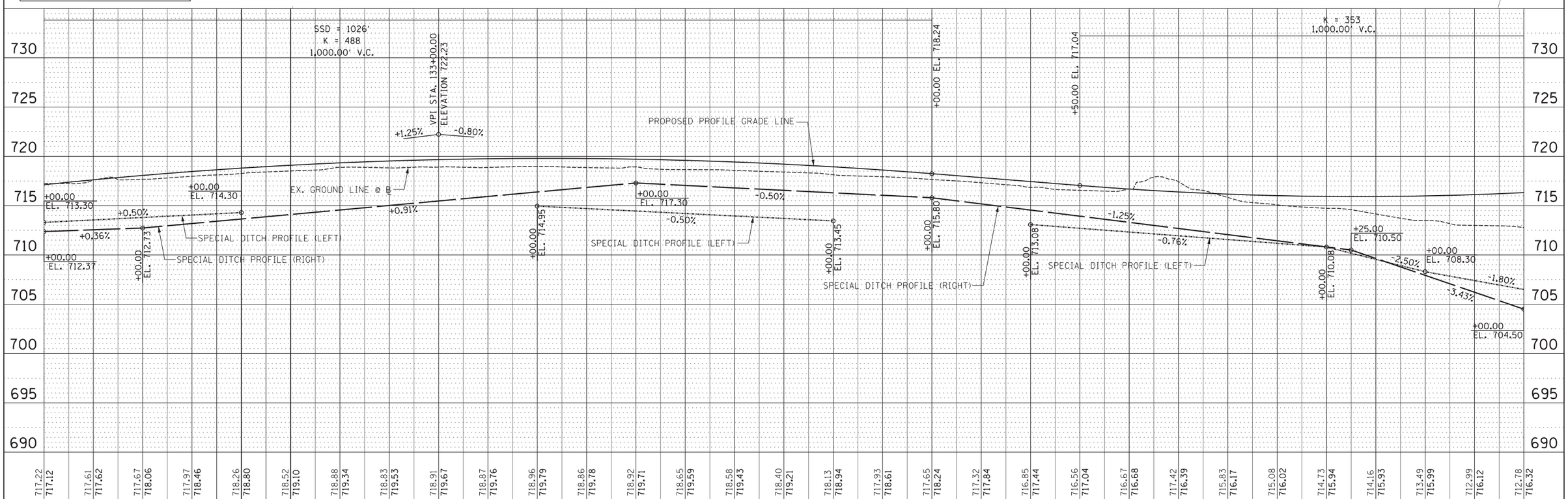
CONTRACT NO.

ILLINOIS | FED. AID PROJECT P-91-015-14

PLAN: SURVEYED | PLOTTED | ALIGNMENT CHECKED | RT. OF WAY CHECKED | CADD FILE NAME | NOTE BOOK NO. | BY | DATE

PROFILE: SURVEYED | PLOTTED | GRADES CHECKED | BLM. NOTED | STRUCTURE NOTATNS CHKD | NOTE BOOK NO. | BY | DATE





GRAEF 8501 W. Higgins Road, Suite 280 Chicago, Illinois 60631 (773) 399-0112	USER NAME = _USER_	DESIGNED -	REVISED -
		DRAWN -	REVISED -
	PLOT SCALE = 50.0000 ' / in.	CHECKED -	REVISED -
	PLOT DATE = 06/25/18	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL RTE 47
PLAN AND PROFILE

SCALE: | SHEET 14 OF 202 SHEETS | STA. 129+00 TO STA. 144+00

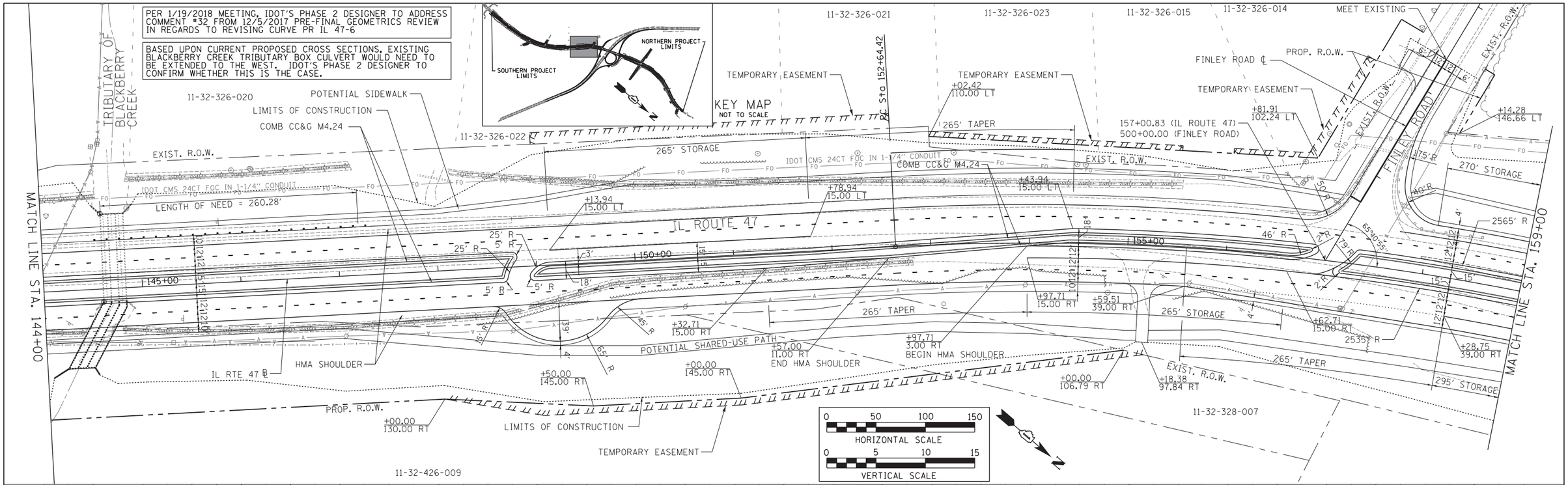
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	14-00028-00-CH	KANE		
		CONTRACT NO.		
	ILLINOIS	FED. AID PROJECT P-91-015-14		

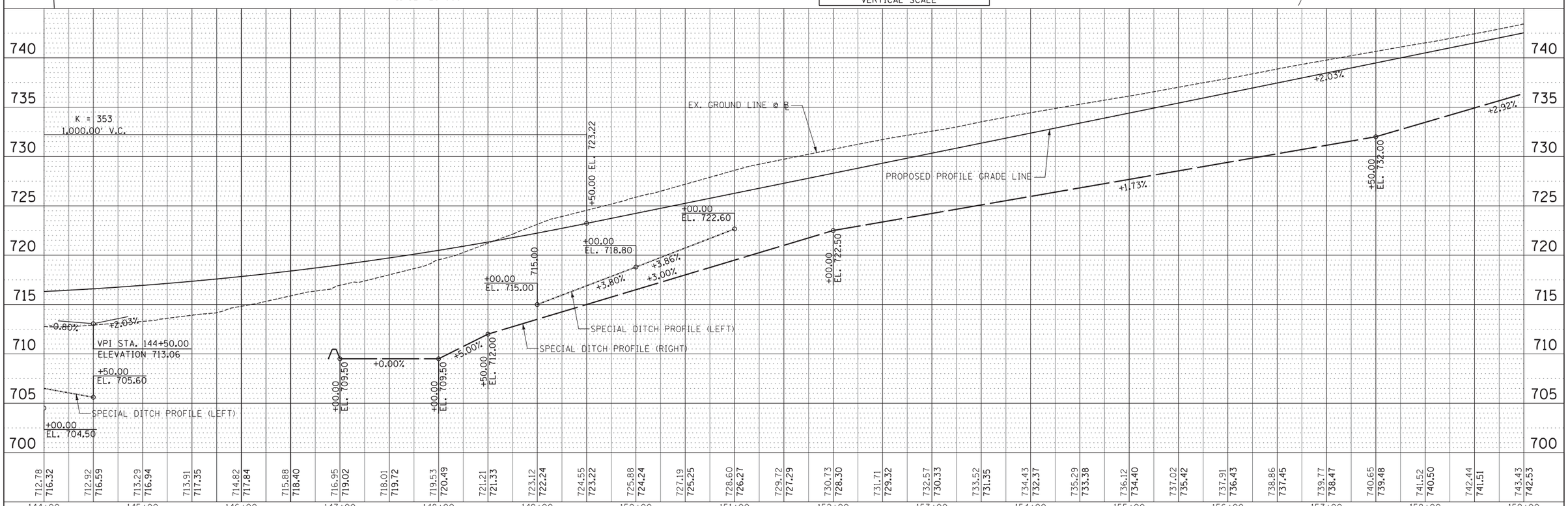
PLAN: SURVEYED / PLOTTED / ALIGNMENT CHECKED / RT. OF WAY CHECKED / CADD FILE NAME / NOTE BOOK NO. / BY / DATE

PROFILE: SURVEYED / PLOTTED / GRADES CHECKED / BM. NOTED / STRUCTURE NOTATNS CHKD / NOTE BOOK NO. / BY / DATE

PER 1/19/2018 MEETING, IDOT'S PHASE 2 DESIGNER TO ADDRESS COMMENT #32 FROM 12/5/2017 PRE-FINAL GEOMETRICS REVIEW IN REGARDS TO REVISING CURVE PR IL 47-6

BASED UPON CURRENT PROPOSED CROSS SECTIONS, EXISTING BLACKBERRY CREEK TRIBUTARY BOX CULVERT WOULD NEED TO BE EXTENDED TO THE WEST. IDOT'S PHASE 2 DESIGNER TO CONFIRM WHETHER THIS IS THE CASE.





PLAN		BY	DATE
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ALIGNMENT CHECKED			
RT. OF WAY CHECKED			
CADD FILE NAME			
NOTE BOOK NO.			

PROFILE		BY	DATE
SURVEYED			
PLOTTED			
GRADES CHECKED			
BLM. NOTED			
STRUCTURE NOTATNS CHKD			
NOTE BOOK NO.			

GRAEF 8501 W. Higgins Road; Suite 280 Chicago, Illinois 60631 (773) 399-0112

USER NAME = _USER_	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 50.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 06/25/18	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL RTE 47
PLAN AND PROFILE

SCALE: SHEET 15 OF 202 SHEETS STA. 144+00 TO STA. 159+00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	14-00028-00-CH	KANE		

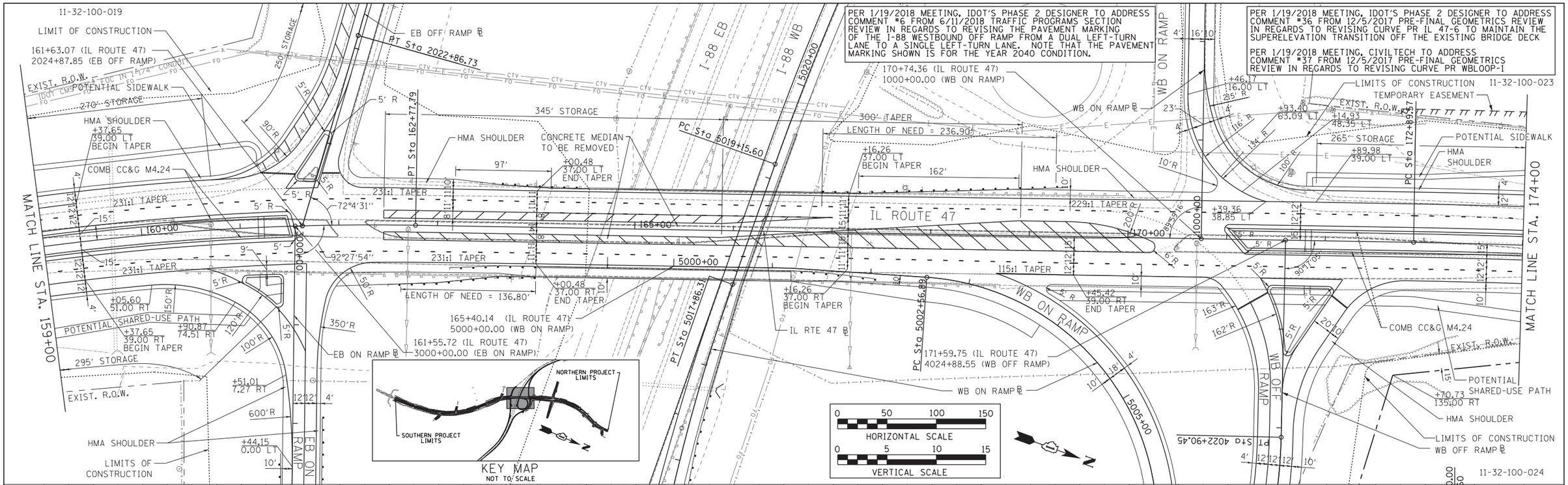
CONTRACT NO.

ILLINOIS FED. AID PROJECT P-91-015-14

PER 1/19/2018 MEETING, IDOT'S PHASE 2 DESIGNER TO ADDRESS COMMENT #6 FROM 6/11/2018 TRAFFIC PROGRAMS SECTION REVIEW IN REGARDS TO REVISING THE PAVEMENT MARKING OF THE I-88 WESTBOUND OFF RAMP FROM A DUAL LEFT-TURN LANE TO A SINGLE LEFT-TURN LANE. NOTE THAT THE PAVEMENT MARKING SHOWN IS FOR THE YEAR 2040 CONDITION.

PER 1/19/2018 MEETING, IDOT'S PHASE 2 DESIGNER TO ADDRESS COMMENT #36 FROM 12/5/2017 PRE-FINAL GEOMETRICS REVIEW IN REGARDS TO REVISING CURVE PR IL 47-6 TO MAINTAIN THE SUPERELEVATION TRANSITION OFF THE EXISTING BRIDGE DECK

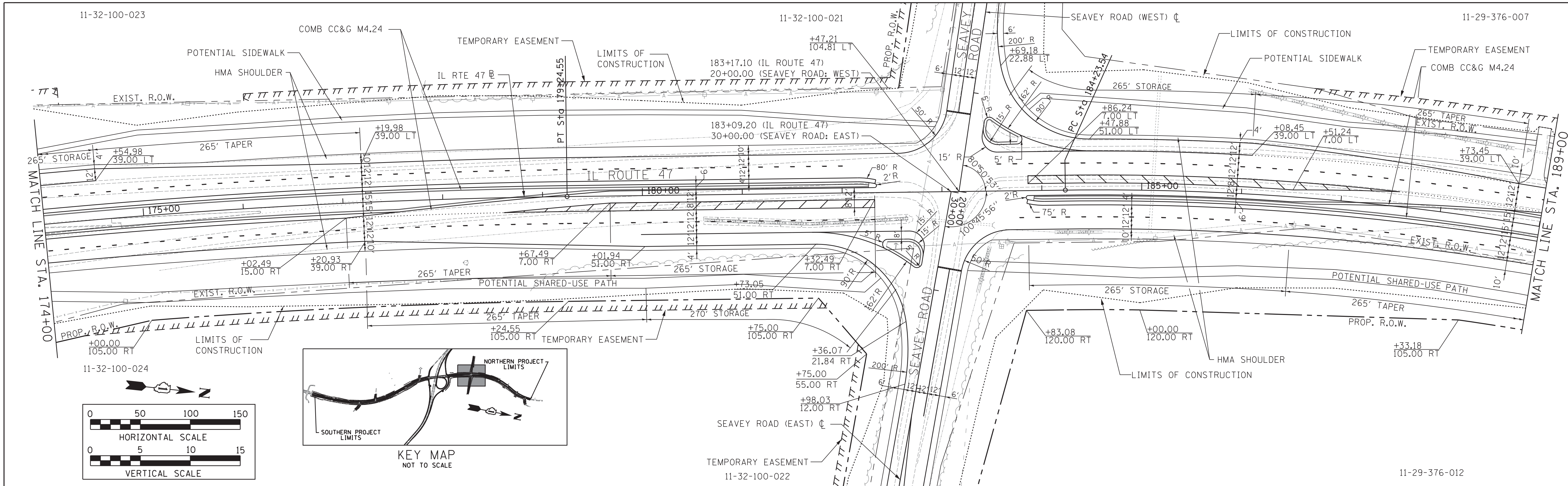
PER 1/19/2018 MEETING, CIVILTECH TO ADDRESS COMMENT #37 FROM 12/5/2017 PRE-FINAL GEOMETRICS REVIEW IN REGARDS TO REVISING CURVE PR WBLOOP-I



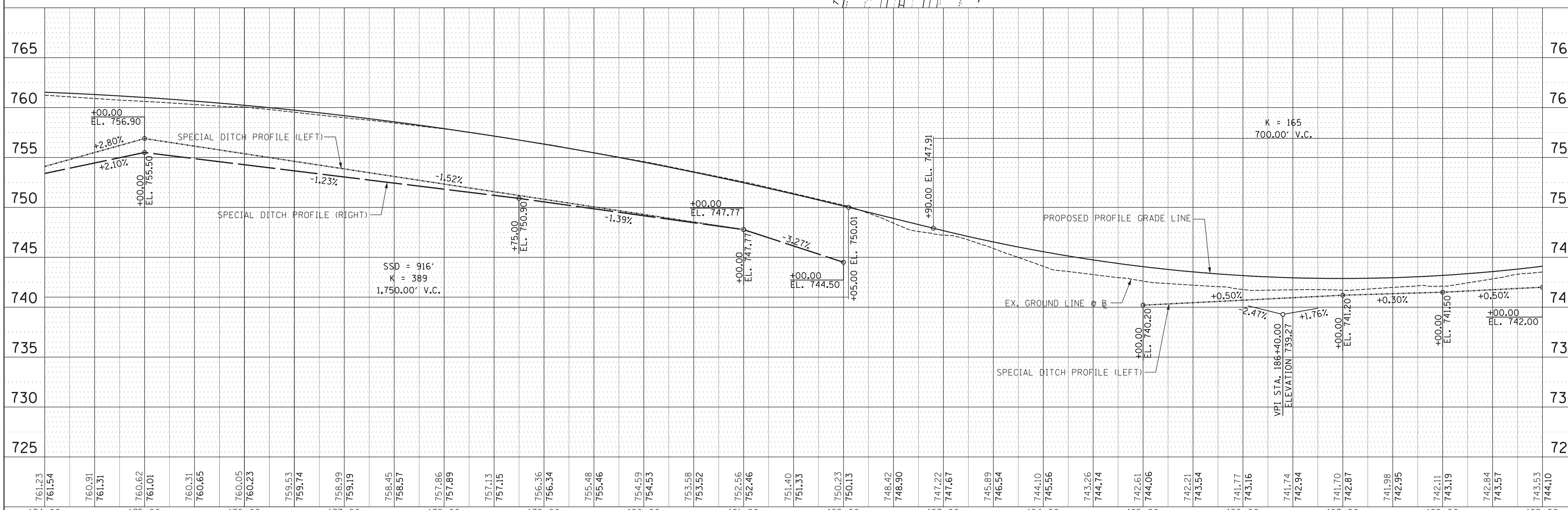
GRAEF 8501 W. Higgins Road; Suite 280 Chicago, Illinois 60631 (773) 399-0112	USER NAME = _USER_	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	IL RTE 47 PLAN AND PROFILE
		DRAWN -	REVISED -		
	PLOT SCALE = 50.0000 ' / in.	CHECKED -	REVISED -		
	PLOT DATE = 06/25/18	DATE -	REVISED -		SCALE: SHEET 16 OF 202 SHEETS STA. 159+00 TO STA. 174+00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	14-00028-00-CH	KANE		
		CONTRACT NO.		
	ILLINOIS	FED. AID PROJECT P-91-015-14		

PLAN | SURVEYED | PLOTTED | ALIGNMENT CHECKED | RT. OF WAY CHECKED | CADD FILE NAME | NOTE BOOK | NO. | BY | DATE



PROFILE | SURVEYED | PLOTTED | GRADES CHECKED | B.M. NOTED | STRUCTURE NOTAT'NS CH'KD | NOTE BOOK | NO. | BY | DATE



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USER NAME = _USER_	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 50.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 06/25/18	DATE -	REVISED -

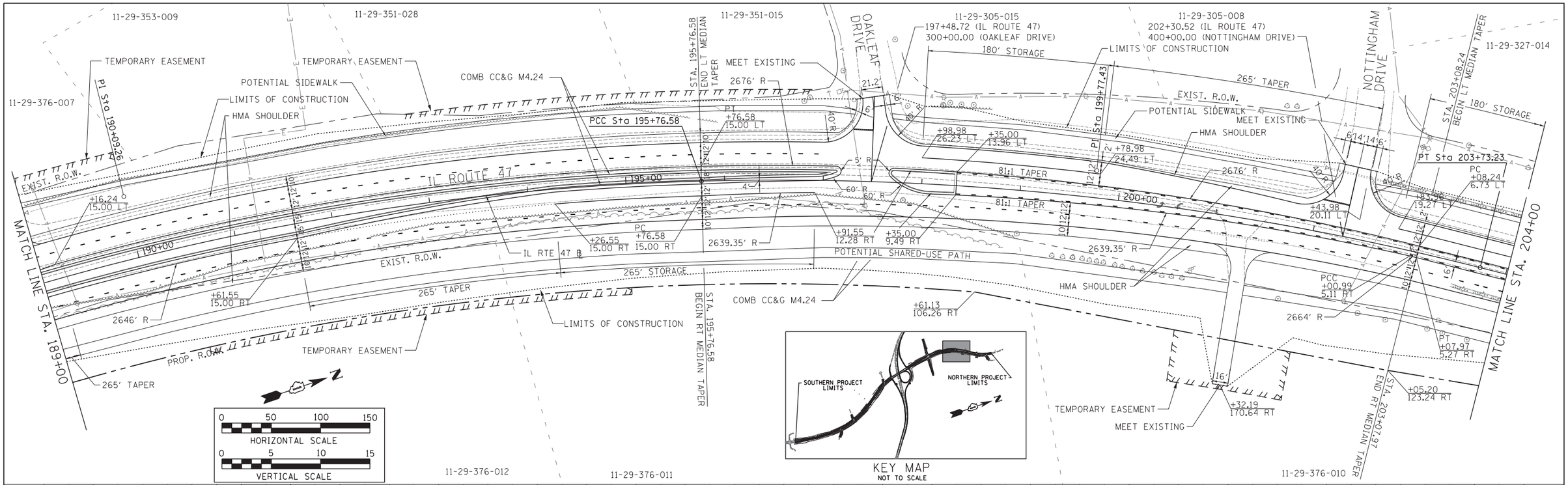
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

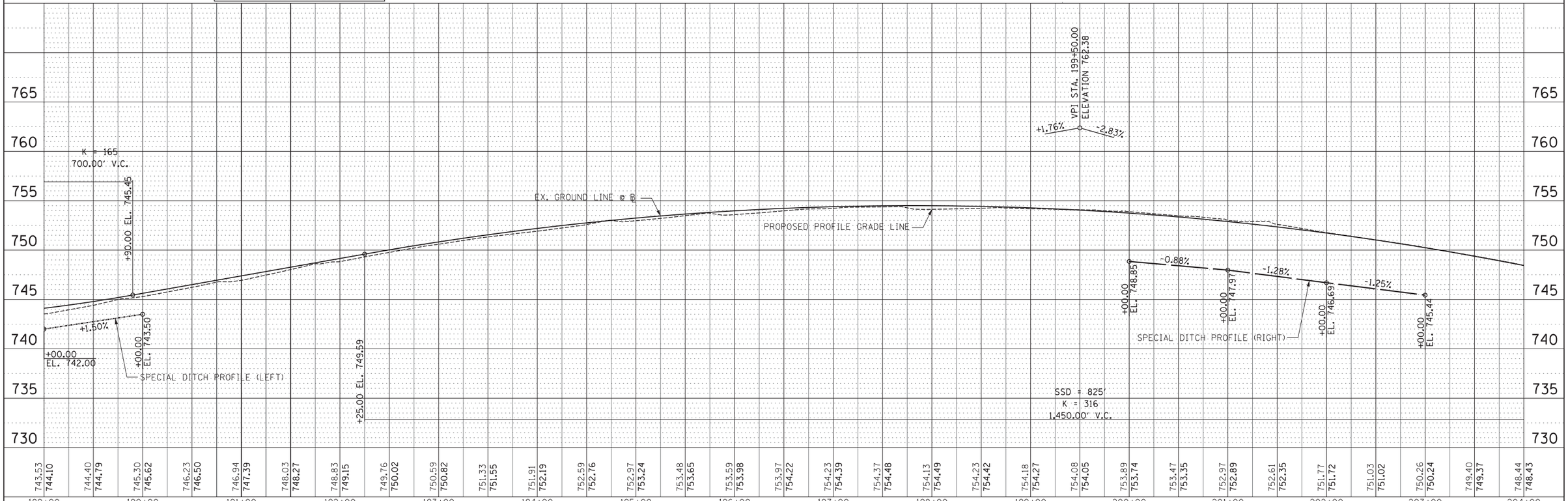
IL RTE 47
PLAN AND PROFILE

SCALE: | SHEET 17 OF 202 SHEETS | STA. 174+00 TO STA. 189+00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	14-00028-00-CH	KANE		
		CONTRACT NO.		

ILLINOIS | FED. AID PROJECT P-91-015-14





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NOTE BOOK
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PROFILE
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GRADES CHECKED
BLM. NOTED
STRUCTURE NOTATNS CHKD
NOTE BOOK
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BY
DATE

GRAEF 8501 W. Higgins Road; Suite 280 Chicago, Illinois 60631 (773) 399-0112

USER NAME = _USER_	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 50.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 06/25/18	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

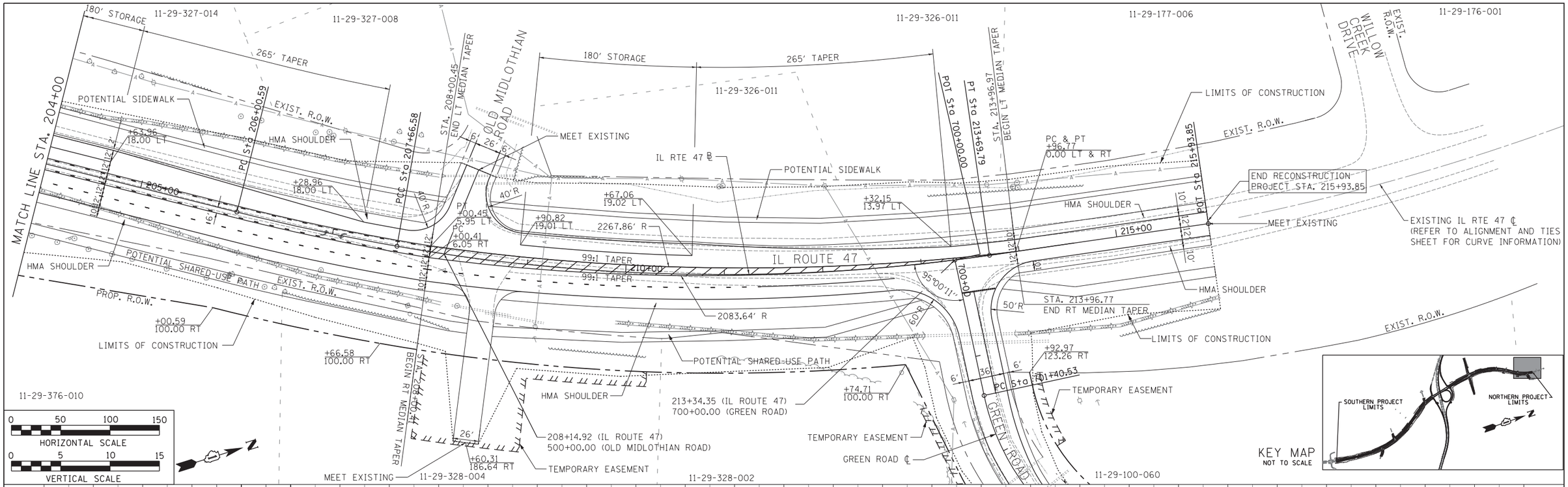
IL RTE 47
PLAN AND PROFILE

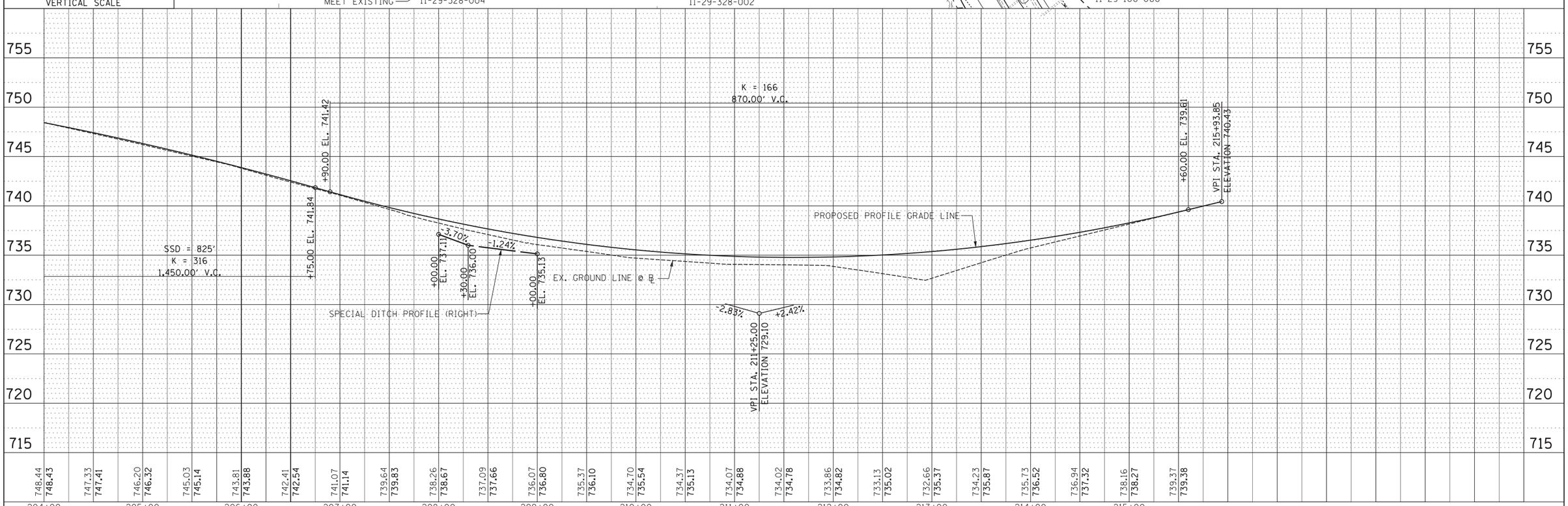
SCALE: SHEET 18 OF 202 SHEETS STA. 189+00 TO STA. 204+00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	14-00028-00-CH	KANE		

CONTRACT NO.

ILLINOIS FED. AID PROJECT P-91-015-14





GRAEF 8501 W. Higgins Road; Suite 280 Chicago, Illinois 60631 (773) 399-0112	USER NAME = _USER_	DESIGNED -	REVISED -
		DRAWN -	REVISED -
	PLOT SCALE = 50.0000 ' / in.	CHECKED -	REVISED -
	PLOT DATE = 06/25/18	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL RTE 47
PLAN AND PROFILE

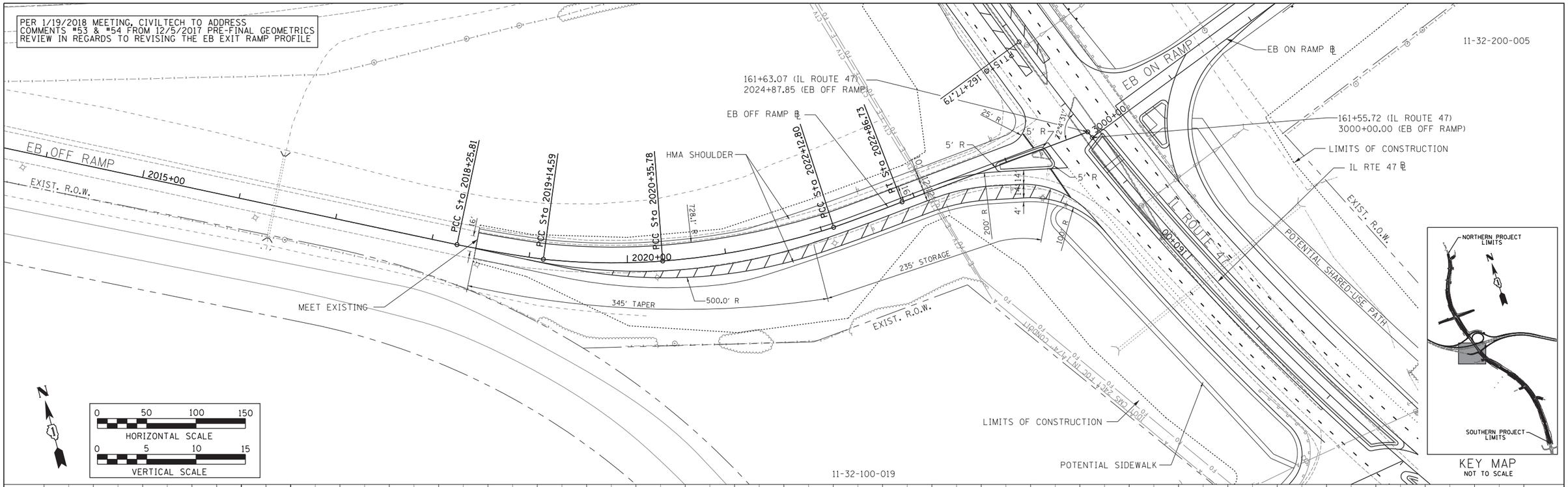
SCALE: | SHEET 19 OF 202 SHEETS | STA. 204+00 TO STA. 216+00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	14-00028-00-CH	KANE		
		CONTRACT NO.		
	ILLINOIS	FED. AID PROJECT P-91-015-14		

PLAN — SURVEYED / PLOTTED / ALIGNMENT CHECKED / RT. OF WAY CHECKED / CADD FILE NAME / NOTE BOOK NO. / BY / DATE

PROFILE — SURVEYED / PLOTTED / GRADES CHECKED / BM. NOTED / STRUCTURE NOTATNS CHKD / NOTE BOOK NO. / BY / DATE

PER 1/19/2018 MEETING, CIVILTECH TO ADDRESS COMMENTS #53 & #54 FROM 12/5/2017 PRE-FINAL GEOMETRICS REVIEW IN REGARDS TO REVISING THE EB EXIT RAMP PROFILE



PLAN	BY	DATE
SURVEYED		
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ALIGNMENT CHECKED		
RT. OF WAY CHECKED		
CADD FILE NAME		
NOTE BOOK NO.		

PROFILE	BY	DATE
SURVEYED		
PLOTTED		
GRADES CHECKED		
BLM. NOTED		
STRUCTURE NOTATNS CHKD		
NOTE BOOK NO.		

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USER NAME = _USER_	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 50.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 06/25/18	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

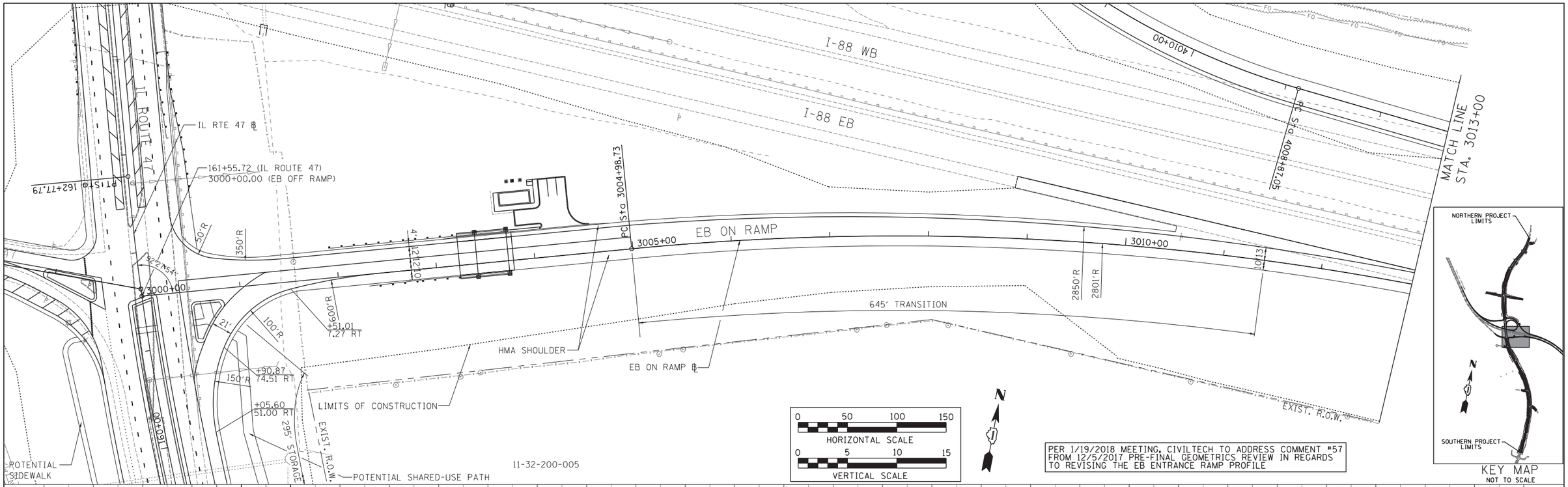
EB EXIT RAMP
PLAN AND PROFILE

SCALE: SHEET 20 OF 202 SHEETS STA. 2018+40 TO STA. 2024+88

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	14-00028-00-CH	KANE		

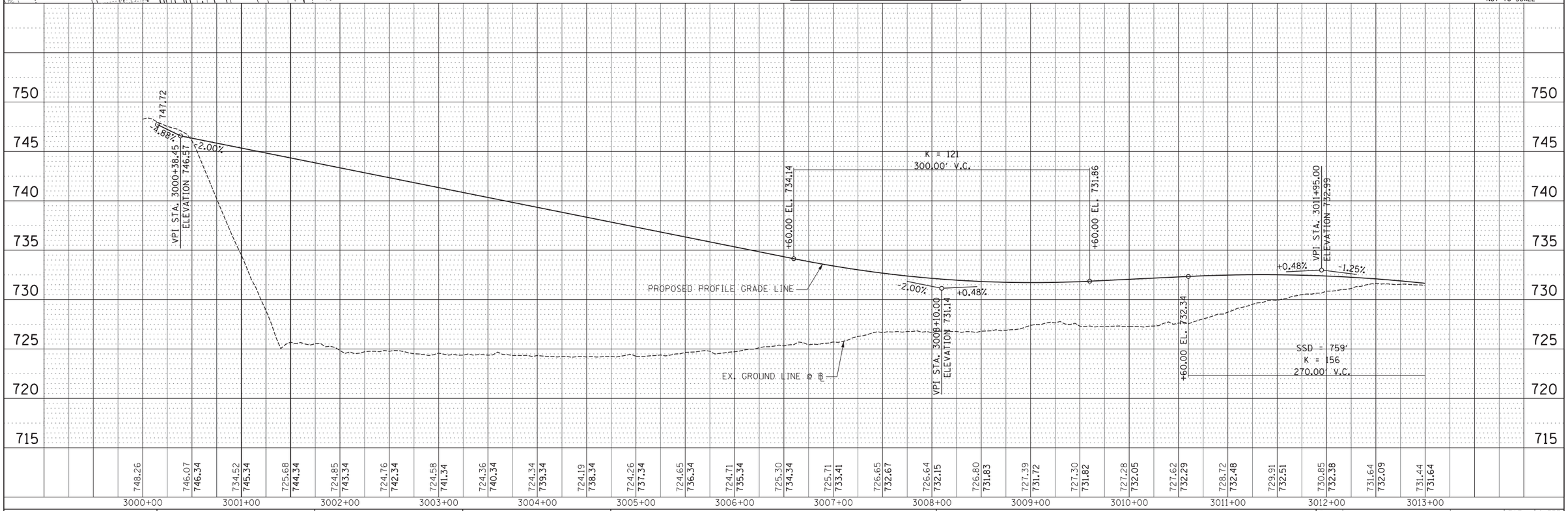
CONTRACT NO.

ILLINOIS FED. AID PROJECT P-91-015-14



PER 1/19/2018 MEETING, CIVILTECH TO ADDRESS COMMENT #57 FROM 12/5/2017 PRE-FINAL GEOMETRICS REVIEW IN REGARDS TO REVISING THE EB ENTRANCE RAMP PROFILE

PLAN
SURVEYED
PLOTTED
ALIGNMENT CHECKED
RT. OF WAY CHECKED
CADD FILE NAME
NOTE BOOK NO.
BY
DATE



PROFILE
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ALIGNMENT CHECKED
BUR. NOTED
STRUCTURE NOTATNS CHKD
NOTE BOOK NO.
BY
DATE

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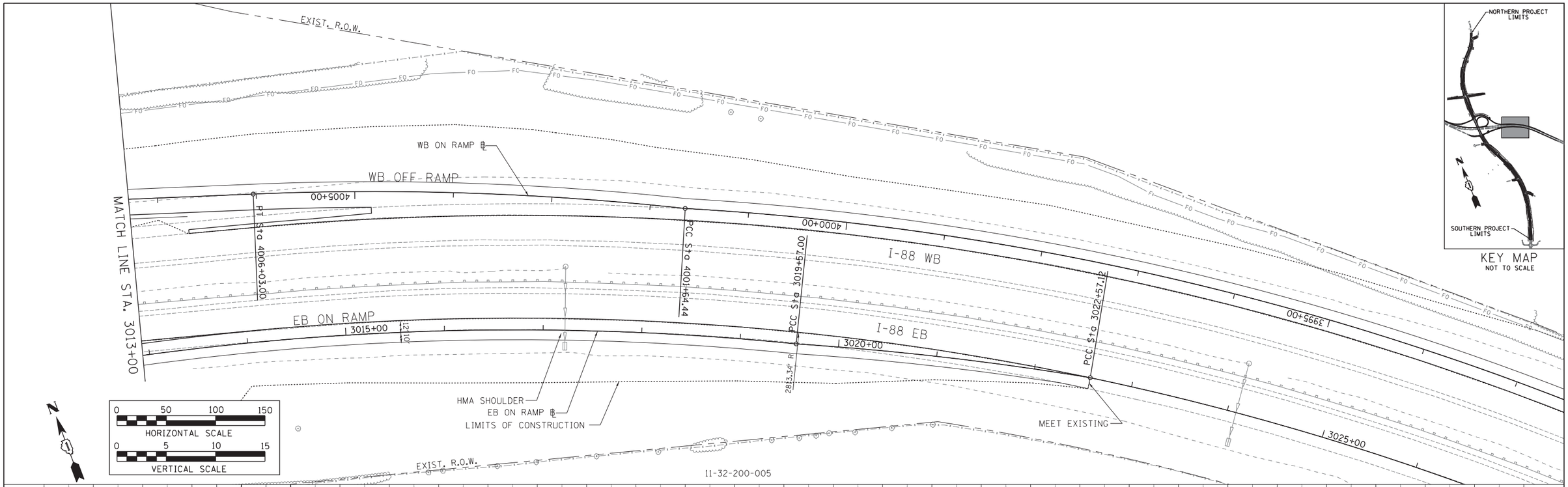
USER NAME = _USER_	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 50.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 06/25/18	DATE -	REVISED -

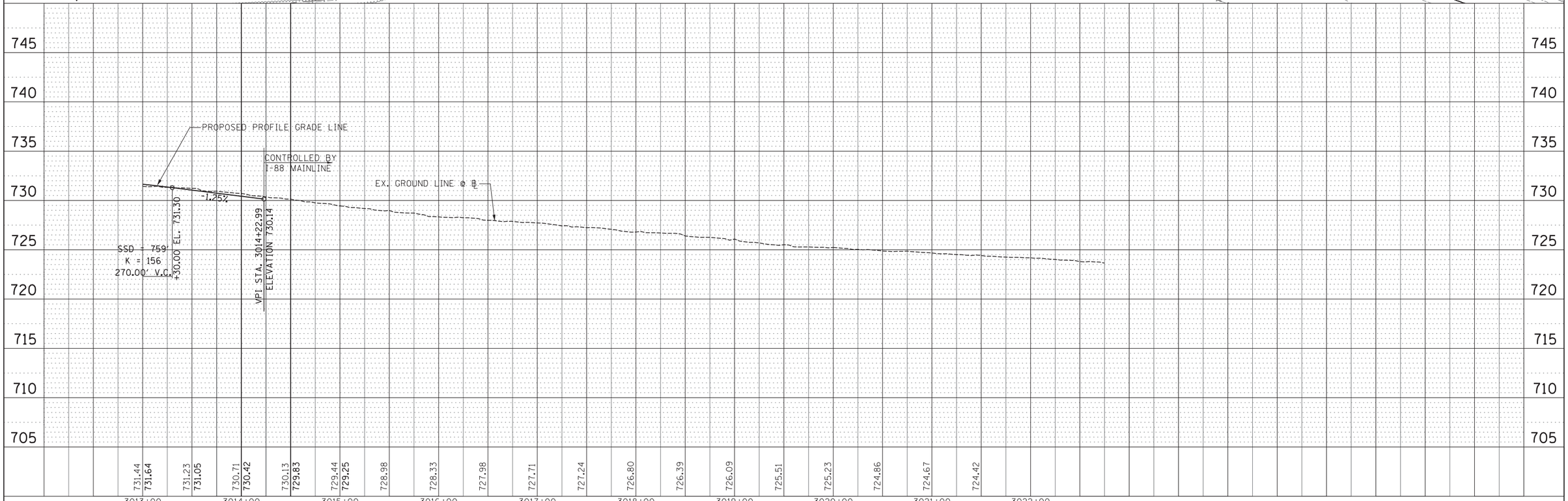
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EB ENTRANCE RAMP
PLAN AND PROFILE

SCALE: SHEET 21 OF 202 SHEETS STA. 3000+00 TO STA. 3013+00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	14-00028-00-CH	KANE		
		CONTRACT NO.		
	ILLINOIS	FED. AID PROJECT P-91-015-14		





PLAN — SURVEYED / PLOTTED / ALIGNMENT CHECKED / RT. OF WAY CHECKED / CADD FILE NAME — NOTE BOOK NO. — BY — DATE

PROFILE — SURVEYED / PLOTTED / GRADES CHECKED / BM. NOTED / STRUCTURE NOTATNS CHKD — NOTE BOOK NO. — BY — DATE

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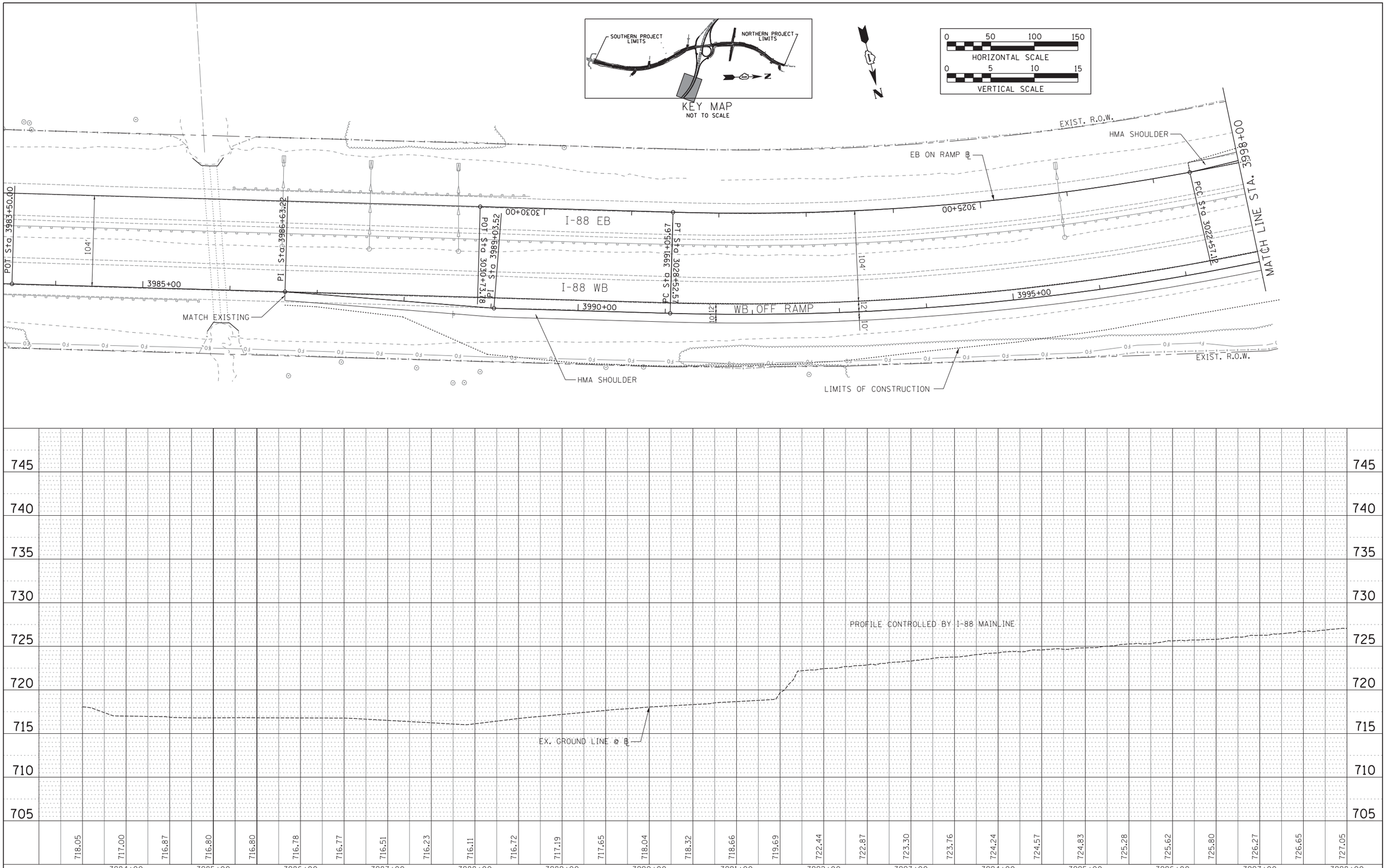
USER NAME = _USER_	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 50.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 06/25/18	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EB ENTRANCE RAMP
PLAN AND PROFILE

SCALE: SHEET 22 OF 202 SHEETS STA. 3013+00 TO STA. 3022+57

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	14-00028-00-CH	KANE		
		CONTRACT NO.		
	ILLINOIS	FED. AID PROJECT P-91-015-14		



PLAN — SURVEYED / PLOTTED / ALIGNMENT CHECKED / RT. OF WAY CHECKED / CADD FILE NAME / NOTE BOOK NO. / BY / DATE

PROFILE — SURVEYED / PLOTTED / GRADES CHECKED / BM. NOTED / STRUCTURE NOTATNS CHKD / NOTE BOOK NO. / BY / DATE

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USER NAME = _USER_	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 50.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 06/25/18	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

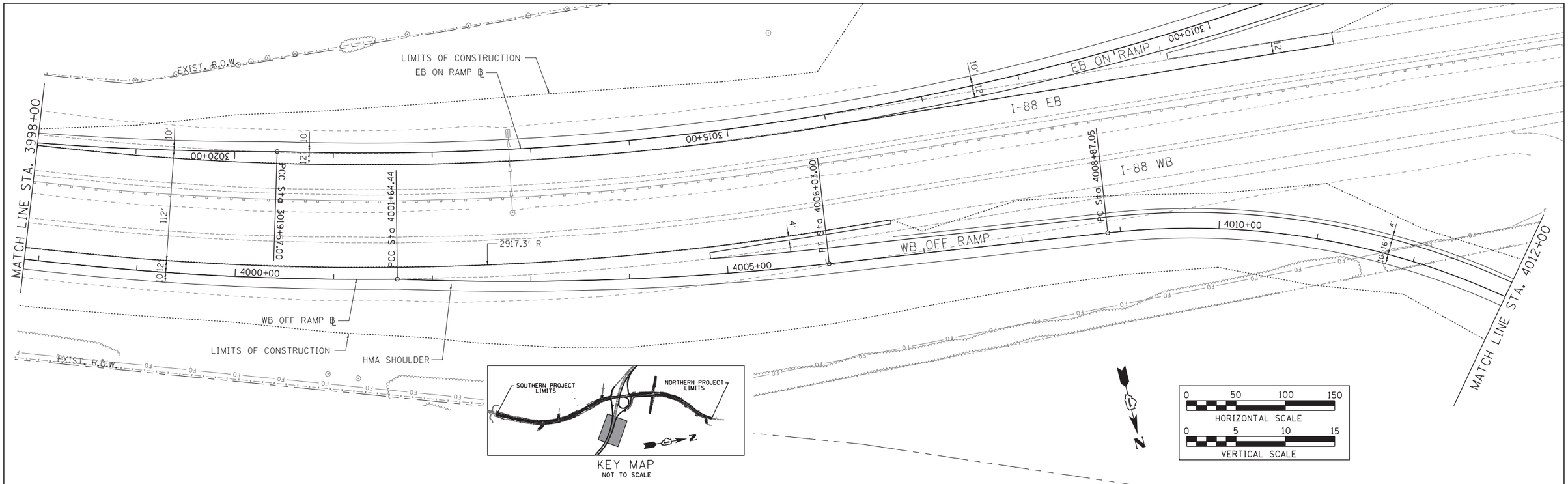
WB EXIT RAMP
PLAN AND PROFILE

SCALE: | SHEET 23 OF 202 SHEETS | STA. 3986+63 TO STA. 3997+90

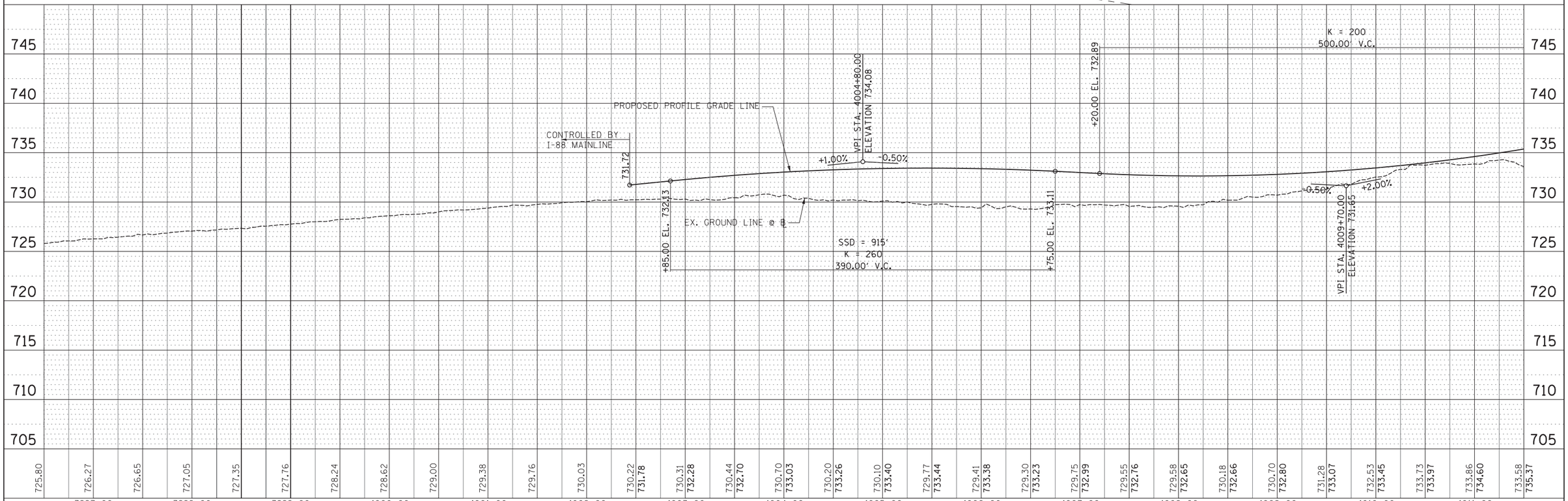
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	14-00028-00-CH	KANE		

CONTRACT NO.

ILLINOIS | FED. AID PROJECT P-91-015-14



KEY MAP
NOT TO SCALE



PLAN	BY	DATE
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ALIGNMENT CHECKED		
RT. OF WAY CHECKED		
CADD FILE NAME		
NOTE BOOK NO.		

PROFILE	BY	DATE
SURVEYED		
PLOTTED		
GRADES CHECKED		
B.M. NOTED		
STRUCTURE NOTAT'NS CH'KD		
NOTE BOOK NO.		

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USER NAME = _USER_	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 50.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 06/25/18	DATE -	REVISED -

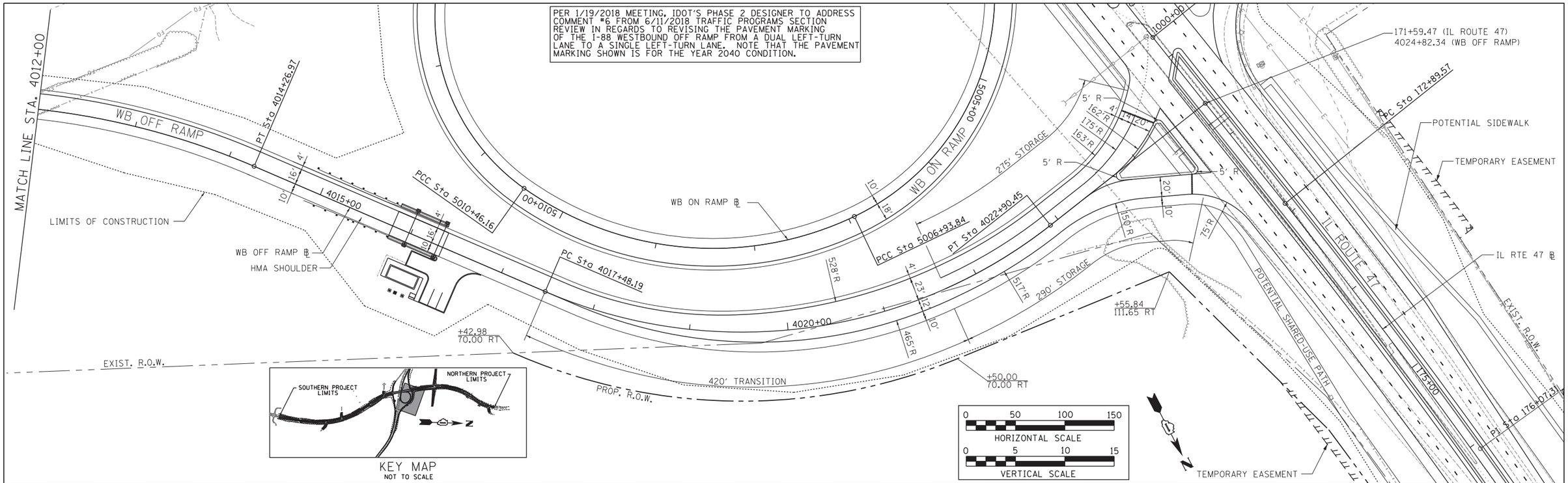
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

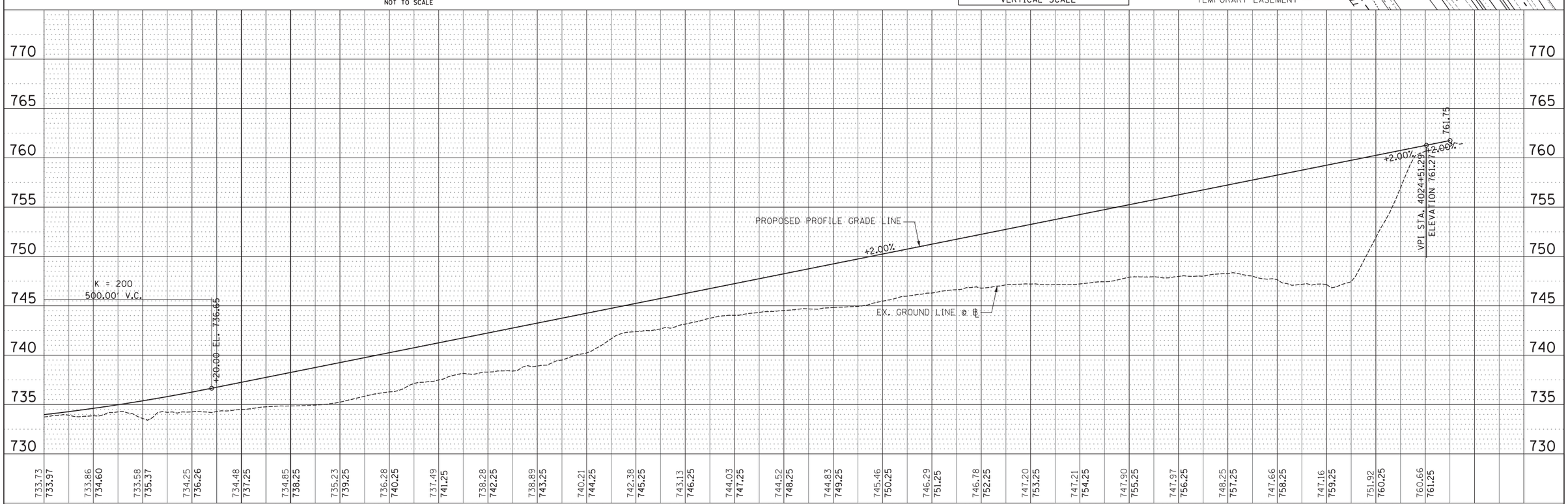
WB EXIT RAMP
PLAN AND PROFILE

SCALE: SHEET 24 OF 202 SHEETS STA. 3997+90 TO STA. 4012+00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	14-00028-00-CH	KANE		
		CONTRACT NO.		
	ILLINOIS	FED. AID PROJECT P-91-015-14		

PER 1/19/2018 MEETING, IDOT'S PHASE 2 DESIGNER TO ADDRESS COMMENT #6 FROM 6/11/2018 TRAFFIC PROGRAMS SECTION REVIEW IN REGARDS TO REVISING THE PAVEMENT MARKING OF THE I-88 WESTBOUND OFF RAMP FROM A DUAL LEFT-TURN LANE TO A SINGLE LEFT-TURN LANE. NOTE THAT THE PAVEMENT MARKING SHOWN IS FOR THE YEAR 2040 CONDITION.





PLAN	BY	DATE
SURVEYED		
PLOTTED		
ALIGNMENT CHECKED		
RT. OF WAY CHECKED		
CADD FILE NAME		
NOTE BOOK NO.		

PROFILE	BY	DATE
SURVEYED		
PLOTTED		
GRADES CHECKED		
B.M. NOTED		
STRUCTURE NOTATNS CHKD		
NOTE BOOK NO.		

GRAEF 8501 W. Higgins Road, Suite 280 Chicago, Illinois 60631 (773) 399-0112

USER NAME = _USER_	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 50.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 06/25/18	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

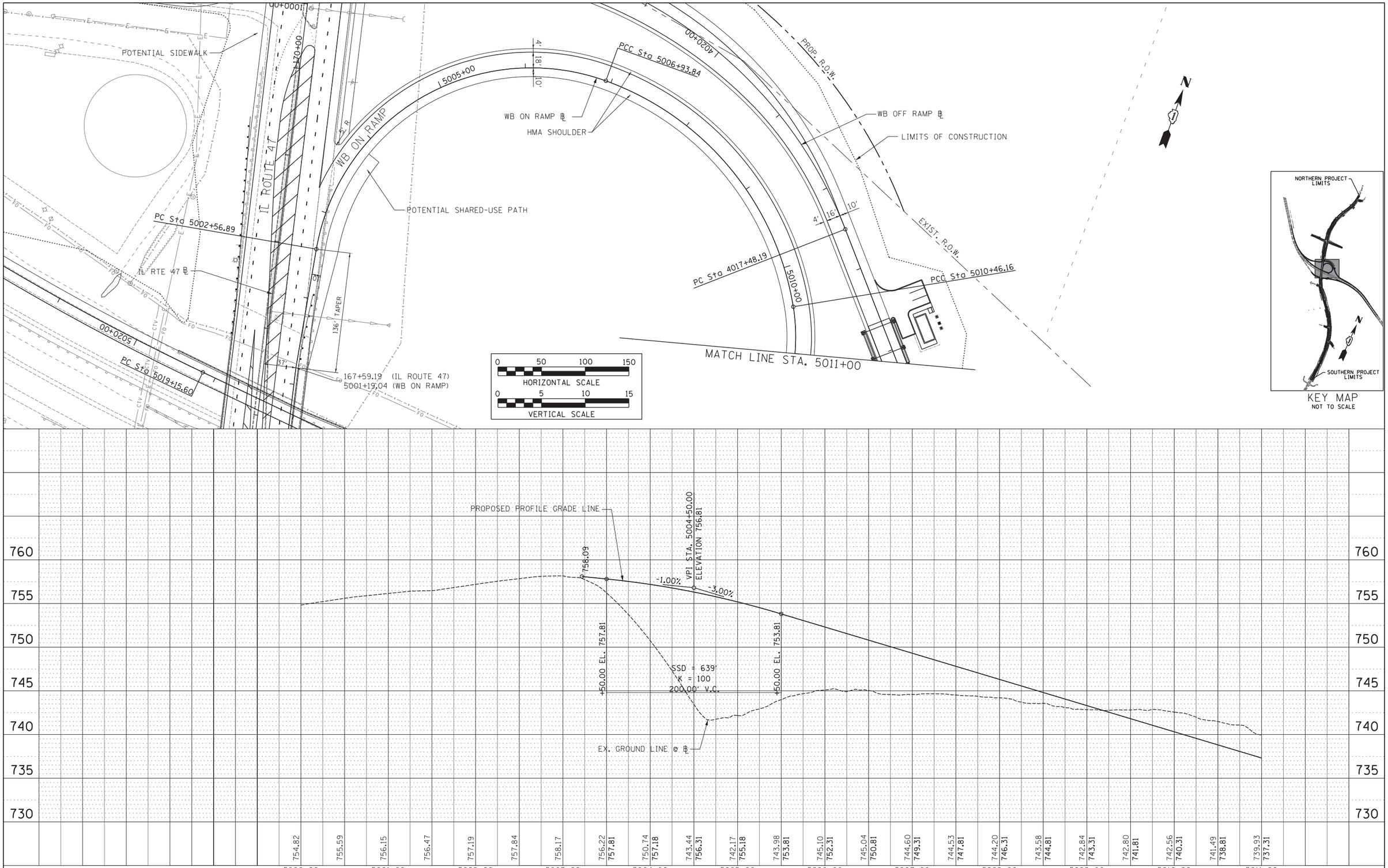
WB EXIT RAMP
PLAN AND PROFILE

SCALE: SHEET 25 OF 202 SHEETS STA. 4012+00 TO STA. 4024+82

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	14-00028-00-CH	KANE		

CONTRACT NO.

ILLINOIS FED. AID PROJECT P-91-015-14



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ALIGNMENT CHECKED		
RT. OF WAY CHECKED		
CADD FILE NAME		
NOTE BOOK NO.		

PROFILE	BY	DATE
SURVEYED		
PLOTTED		
GRADES CHECKED		
B.M. NOTED		
STRUCTURE NOTATIONS CHK'D		
NOTE BOOK NO.		

GREEF
8501 W. Higgins Road: Suite 280
Chicago, Illinois 60631
(773) 399-0112

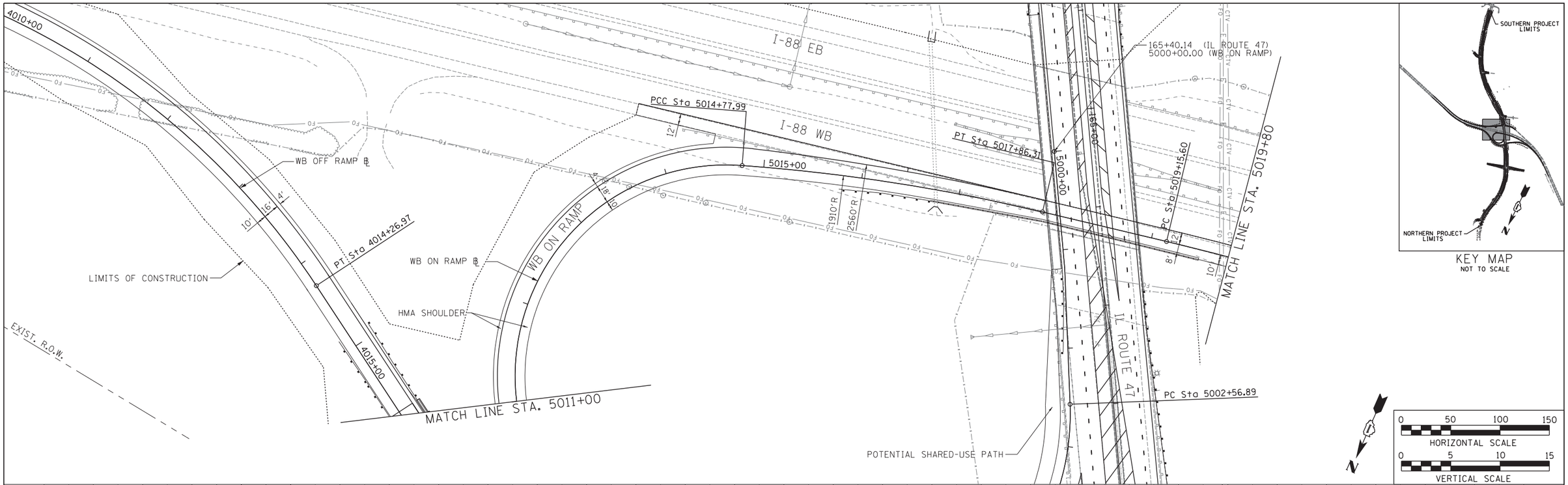
USER NAME = _USER_	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 50.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 06/25/18	DATE -	REVISED -

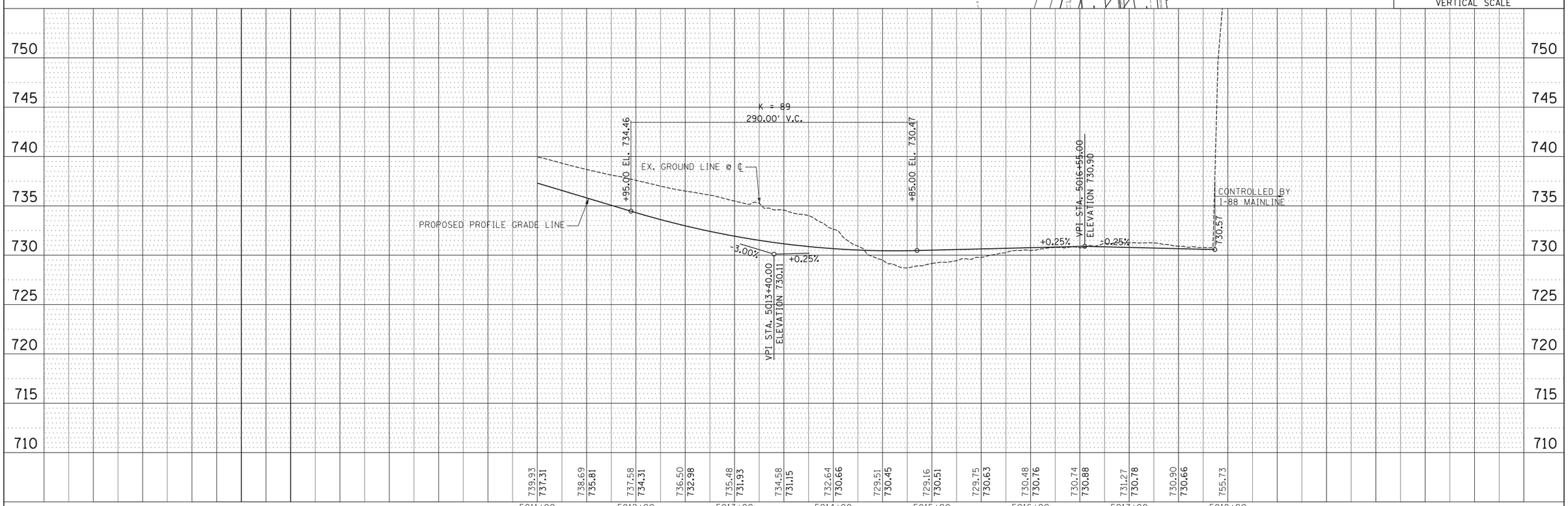
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WB LOOP ENTRANCE RAMP
PLAN AND PROFILE

SCALE: | SHEET 26 OF 202 SHEETS | STA. 5000+00 TO STA. 5011+00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	14-00028-00-CH	KANE		
		CONTRACT NO.		
	ILLINOIS	FED. AID PROJECT P-91-015-14		





PLAN	BY	DATE
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NOTE BOOK NO.		

PROFILE	BY	DATE
SURVEYED		
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GRADES CHECKED		
BAR. NOTED STRUCTURE NOTATNS CHKD		
NOTE BOOK NO.		

GRAEF 8501 W. Higgins Road; Suite 280 Chicago, Illinois 60631 (773) 399-0112

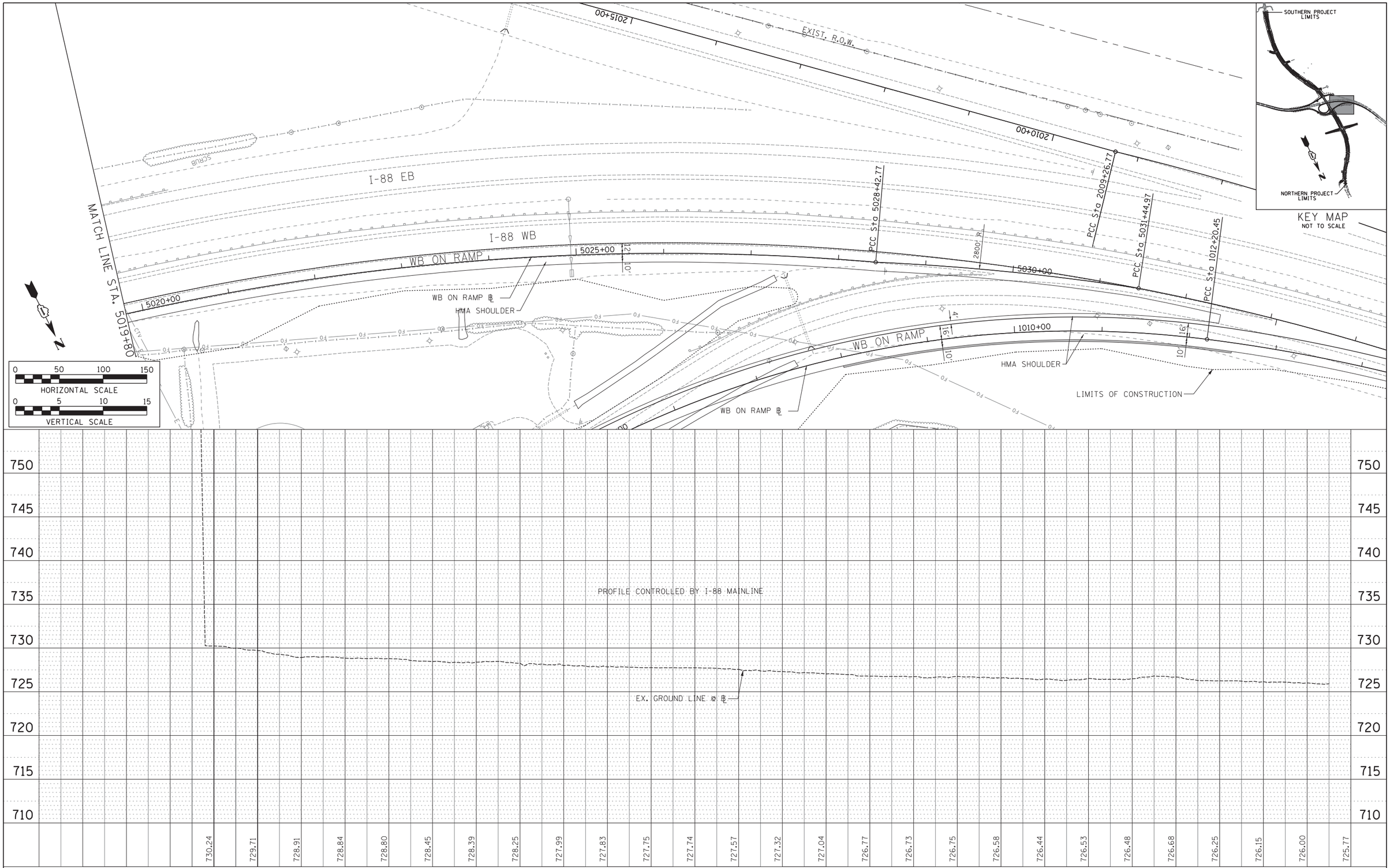
USER NAME = _USER_	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 50.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 06/25/18	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WB LOOP ENTRANCE RAMP
PLAN AND PROFILE

SCALE: SHEET 27 OF 202 SHEETS STA. 5011+00 TO STA. 5019+80

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	14-00028-00-CH	KANE		
		CONTRACT NO.		
	ILLINOIS	FED. AID PROJECT P-91-015-14		



PLAN — SURVEYED / PLOTTED / ALIGNMENT CHECKED / RT. OF WAY CHECKED / CADD FILE NAME — NOTE BOOK NO. — BY — DATE

PROFILE — SURVEYED / PLOTTED / GRADES CHECKED / B.M. NOTED / STRUCTURE NOTATIONS CHKD — NOTE BOOK NO. — BY — DATE

GREF 8501 W. Higgins Road: Suite 280 Chicago, Illinois 60631 (773) 399-0112

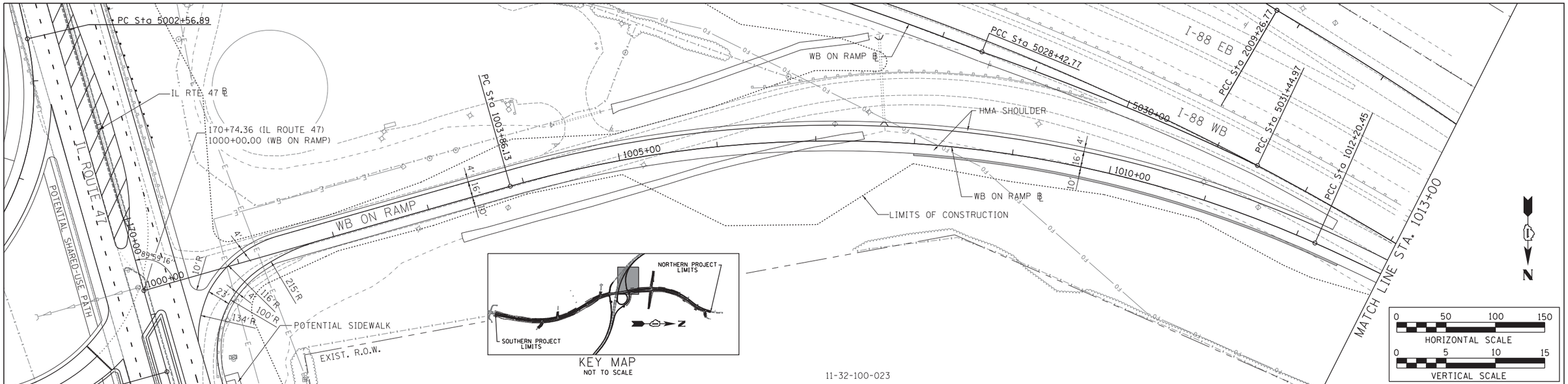
USER NAME = _USER_	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 50.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 06/25/18	DATE -	REVISED -

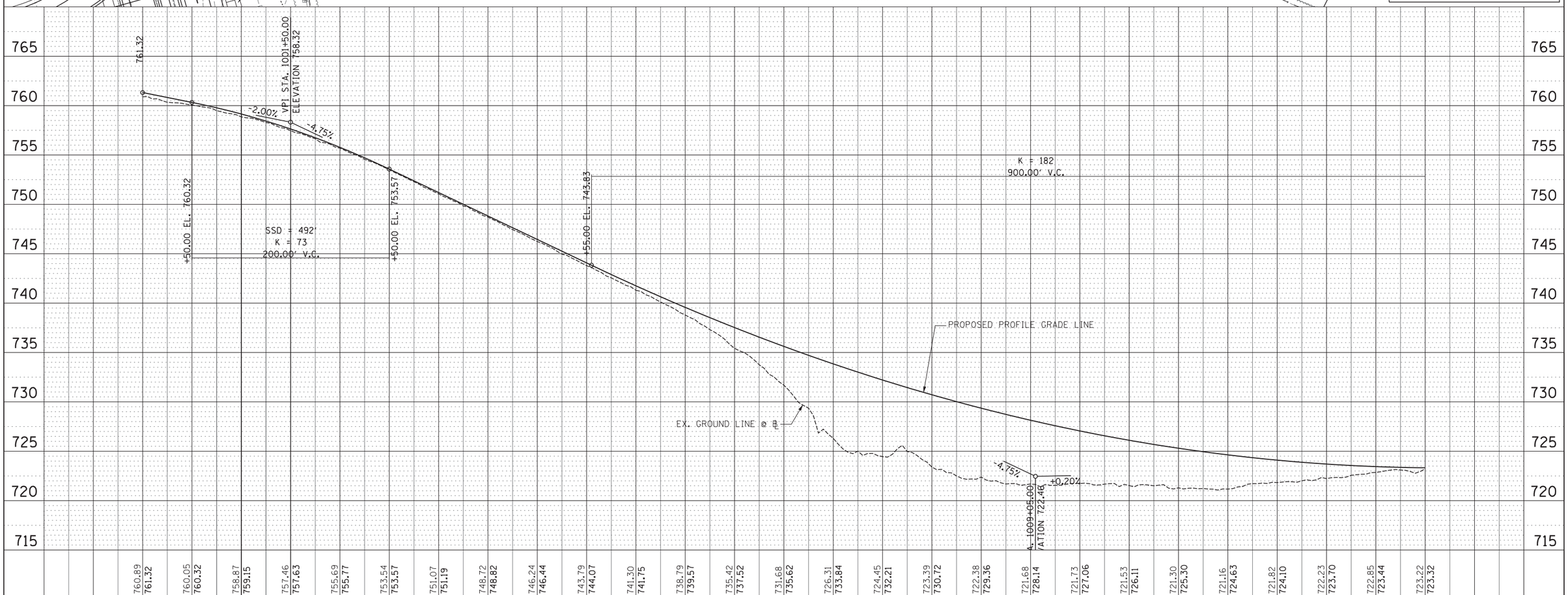
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WB LOOP ENTRANCE RAMP
PLAN AND PROFILE

SCALE: SHEET 28 OF 202 SHEETS STA. 5019+80 TO STA. 5031+45

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	14-00028-00-CH	KANE		
		CONTRACT NO.		
	ILLINOIS	FED. AID PROJECT P-91-015-14		





PLAN — NOTE BOOK NO. ____ — SURVEYED / PLOTTED / ALIGNMENT CHECKED / RT. OF WAY CHECKED / CADD FILE NAME — BY — DATE

PROFILE — NOTE BOOK NO. ____ — SURVEYED / PLOTTED / GRADES CHECKED / BM. NOTED / STRUCTURE NOTAT'NS CHK'D — BY — DATE

GRAEF 8501 W. Higgins Road, Suite 280 Chicago, Illinois 60631 (773) 399-0112

USER NAME = _USER_	DESIGNED -	REVISED -
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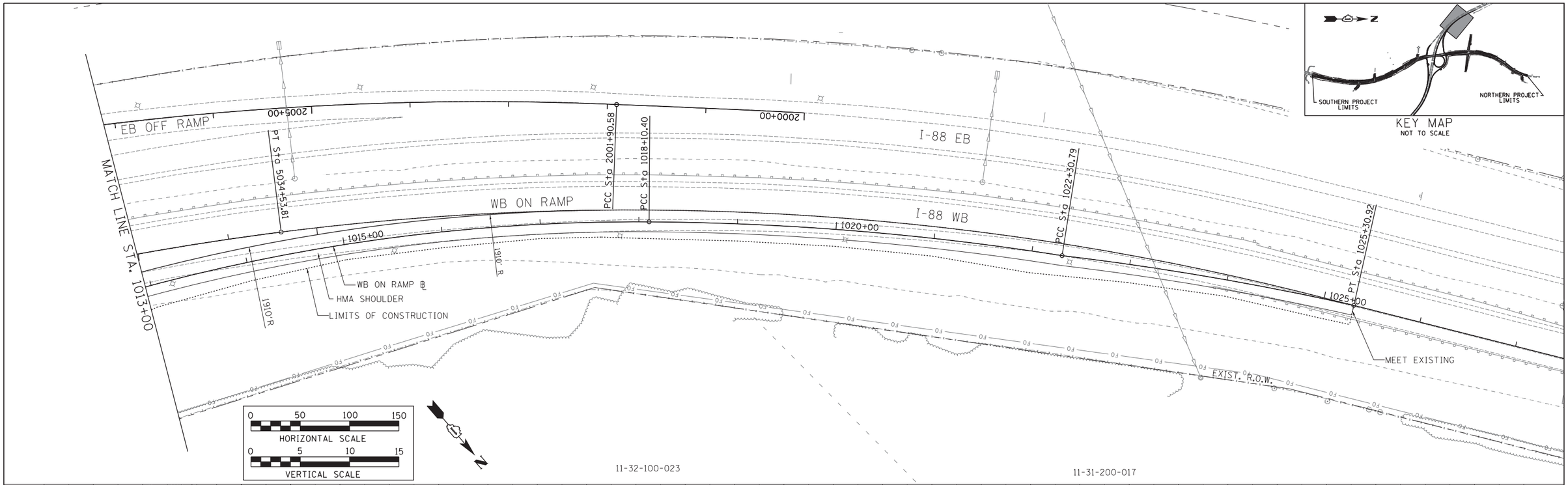
PLOT SCALE = 50.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 06/25/18	DATE -	REVISED -

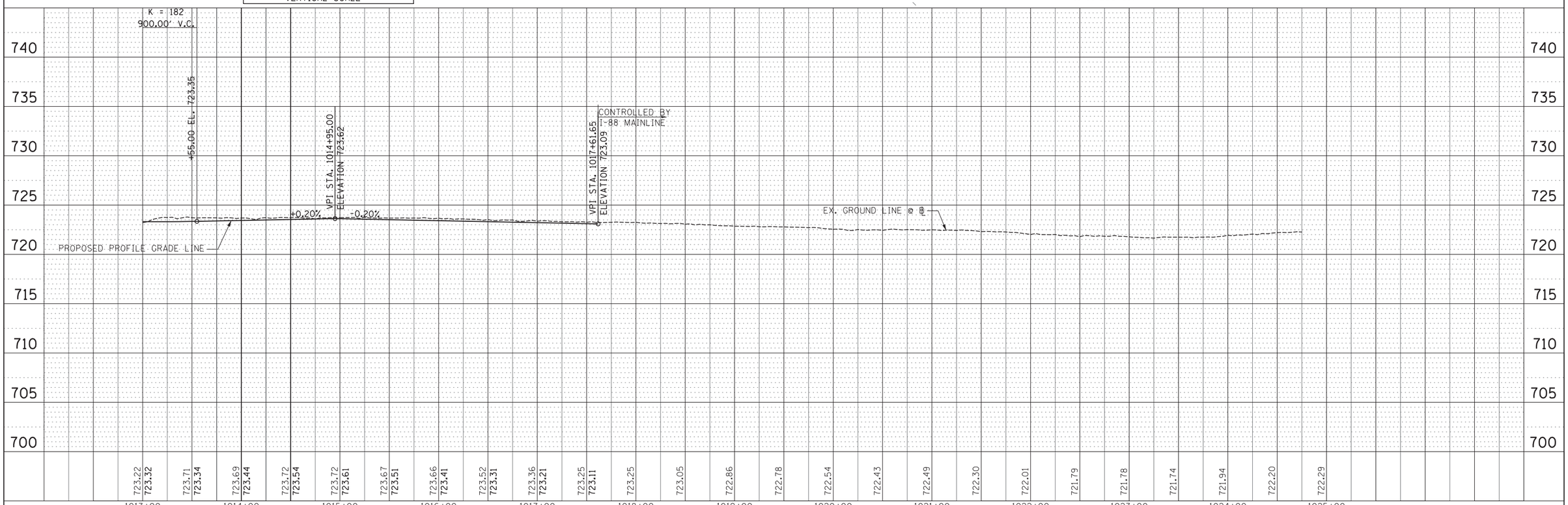
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SB TO WB ENTRANCE RAMP
PLAN AND PROFILE

SCALE: SHEET 29 OF 202 SHEETS STA. 1000+00 TO STA. 1013+00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	14-00028-00-CH	KANE		
		CONTRACT NO.		
	ILLINOIS	FED. AID PROJECT P-91-015-14		





PLAN
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NOTE BOOK NO.
BY
DATE

PROFILE
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GRADES CHECKED
BM. NOTED
STRUCTURE NOTATNS CHKD
NOTE BOOK NO.
BY
DATE

GRAEF 8501 W. Higgins Road; Suite 280 Chicago, Illinois 60631 (773) 399-0112

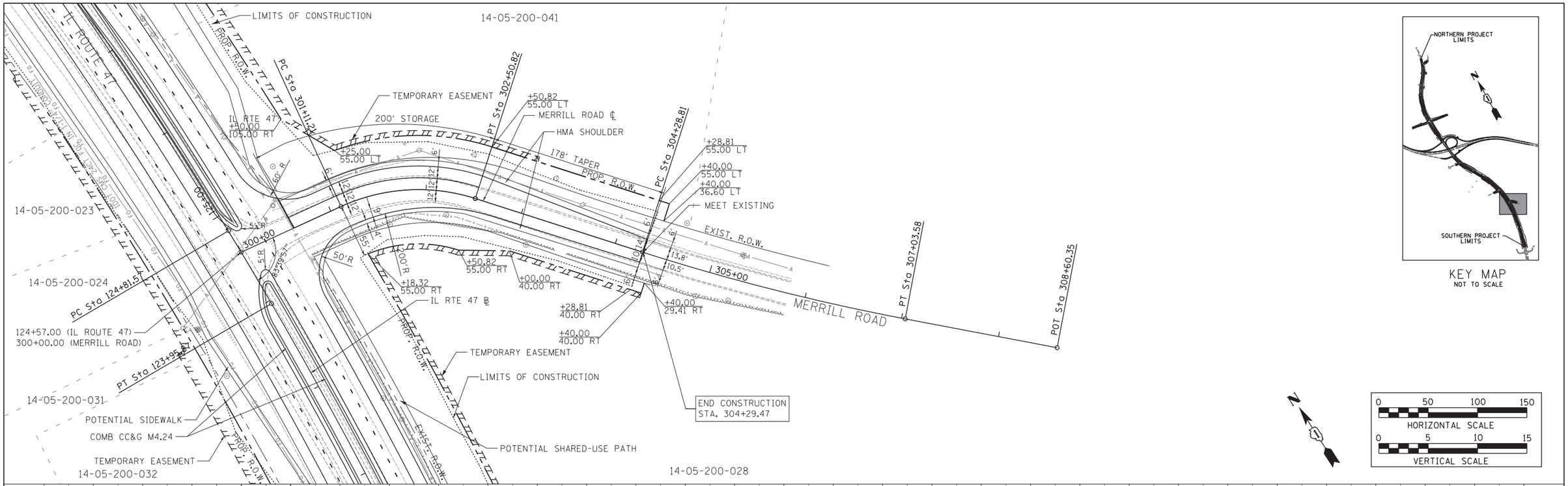
USER NAME = _USER_	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 50.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 06/25/18	DATE -	REVISED -

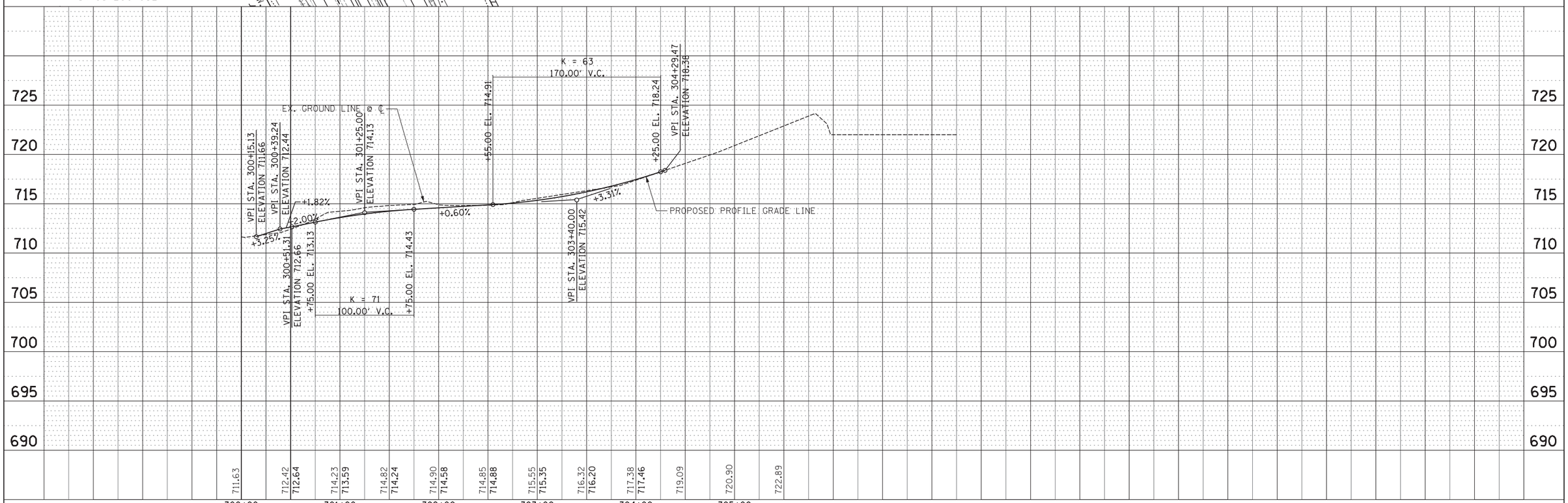
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SB TO WB ENTRANCE RAMP
PLAN AND PROFILE

SCALE: SHEET 30 OF 202 SHEETS STA. 1013+00 TO STA. 1025+31

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	14-00028-00-CH	KANE		
		CONTRACT NO.		
	ILLINOIS	FED. AID PROJECT P-91-015-14		





PLAN		BY	DATE
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PROFILE		BY	DATE
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PLOTTED			
GRADES CHECKED			
B.M. NOTED			
STRUCTURE NOTATNS CHKD			
NOTE BOOK NO.			

GRAEF 8501 W. Higgins Road, Suite 280 Chicago, Illinois 60631 (773) 399-0112

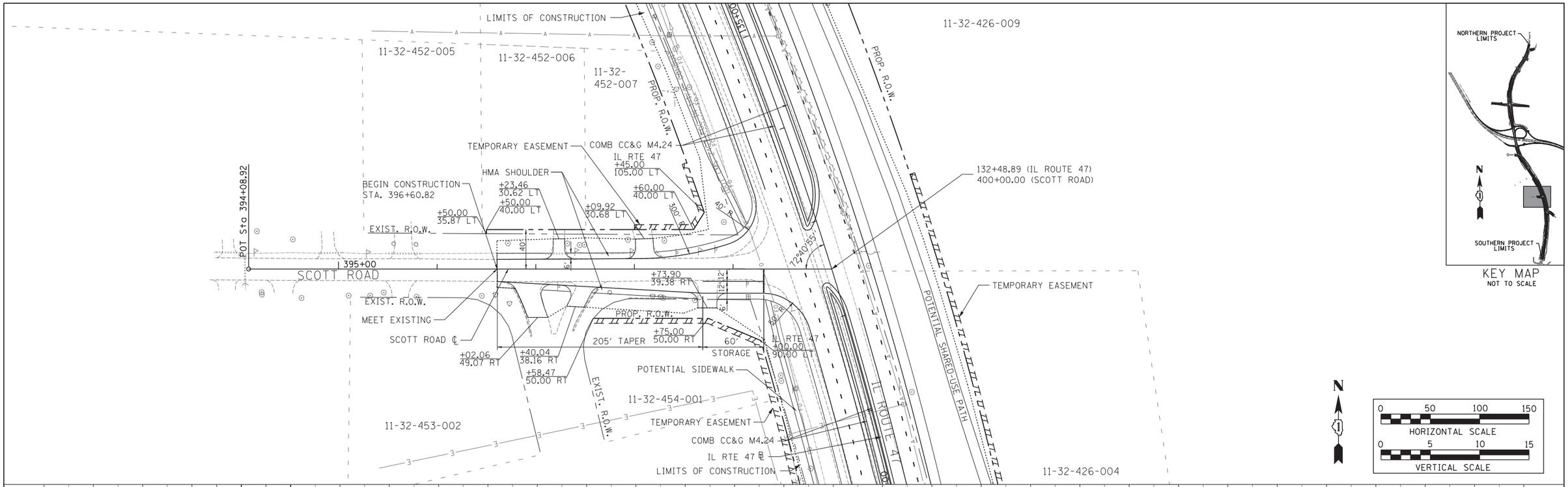
USER NAME = _USER_	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 50.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 06/25/18	DATE -	REVISED -

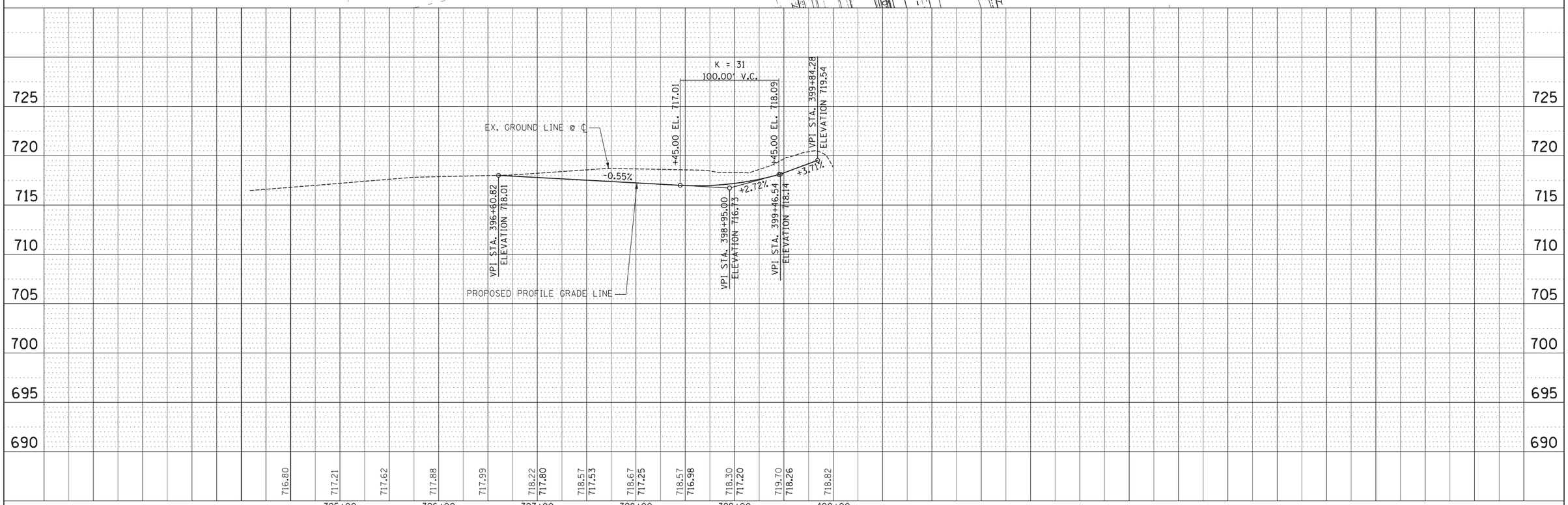
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MERRILL ROAD
PLAN AND PROFILE

SCALE: SHEET 31 OF 202 SHEETS STA. 300+00 TO STA. 304+29

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	14-00028-00-CH	KANE		
		CONTRACT NO.		
	ILLINOIS	FED. AID PROJECT P-91-015-14		





PLAN
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CADD FILE NAME
NOTE BOOK
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BY
DATE

PROFILE
SURVEYED
PLOTTED
GRADES CHECKED
B.M. NOTED
STRUCTURE NOTATNS CHKD
NOTE BOOK
NO.
BY
DATE

GRAEF 8501 W. Higgins Road; Suite 280 Chicago, Illinois 60631 (773) 399-0112

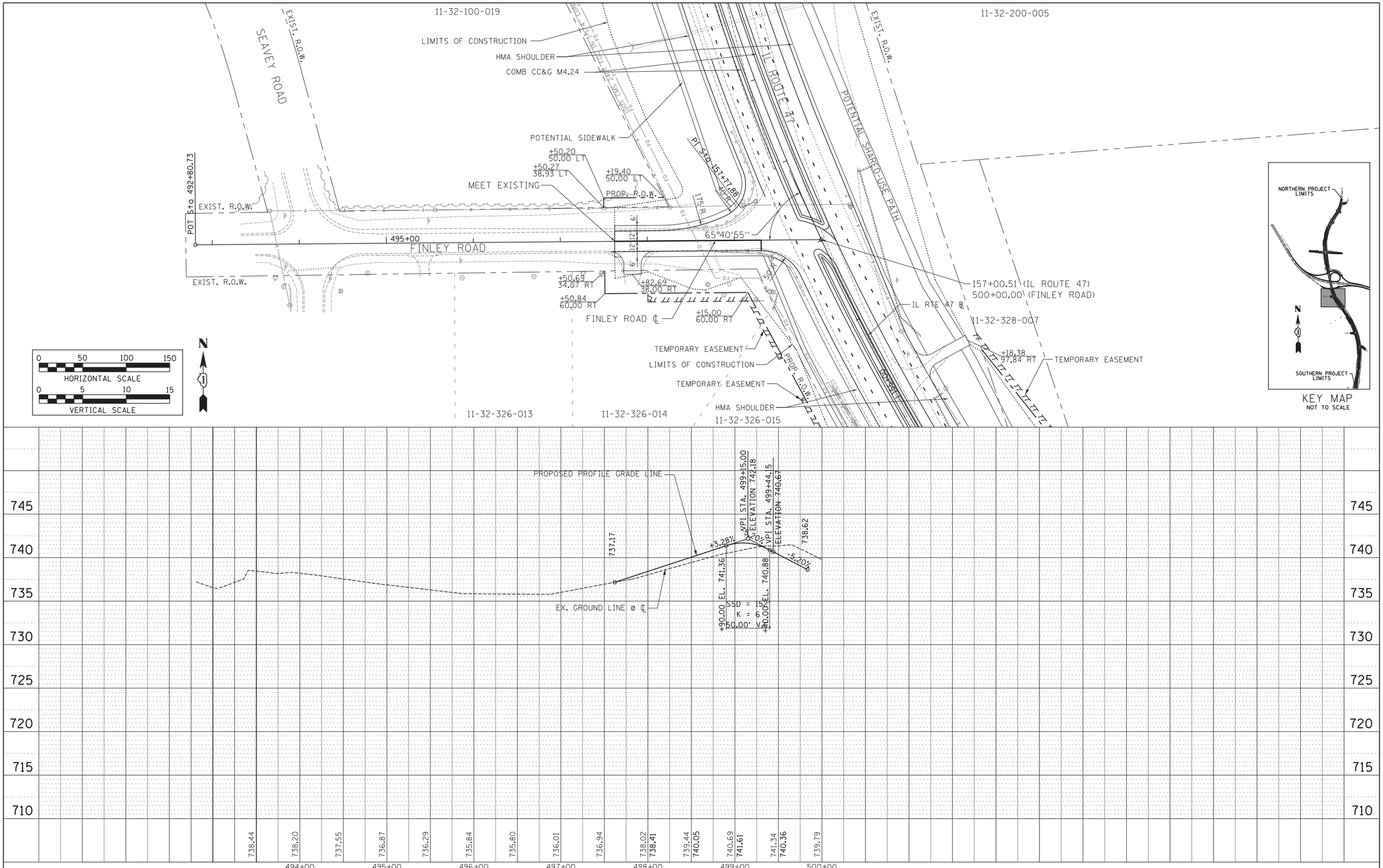
USER NAME = _USER_	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 50.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 06/25/18	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCOTT ROAD
PLAN AND PROFILE

SCALE: SHEET 32 OF 202 SHEETS STA. 396+59 TO STA. 400+00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	14-00028-00-CH	KANE		
		CONTRACT NO.		
	ILLINOIS	FED. AID PROJECT P-91-015-14		



PLAN
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RT. OF WAY CHECKED
CADD FILE NAME
NOTE BOOK NO.
BY
DATE

PROFILE
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GRADES CHECKED
BRIDGE NOTED
STRUCTURE NOTATNS CHKD
NOTE BOOK NO.
BY
DATE

GRAEF 8501 W. Higgins Road; Suite 280 Chicago, Illinois 60631 (773) 399-0112

USER NAME = _USER_	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 50.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 06/25/18	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FINLEY ROAD
PLAN AND PROFILE

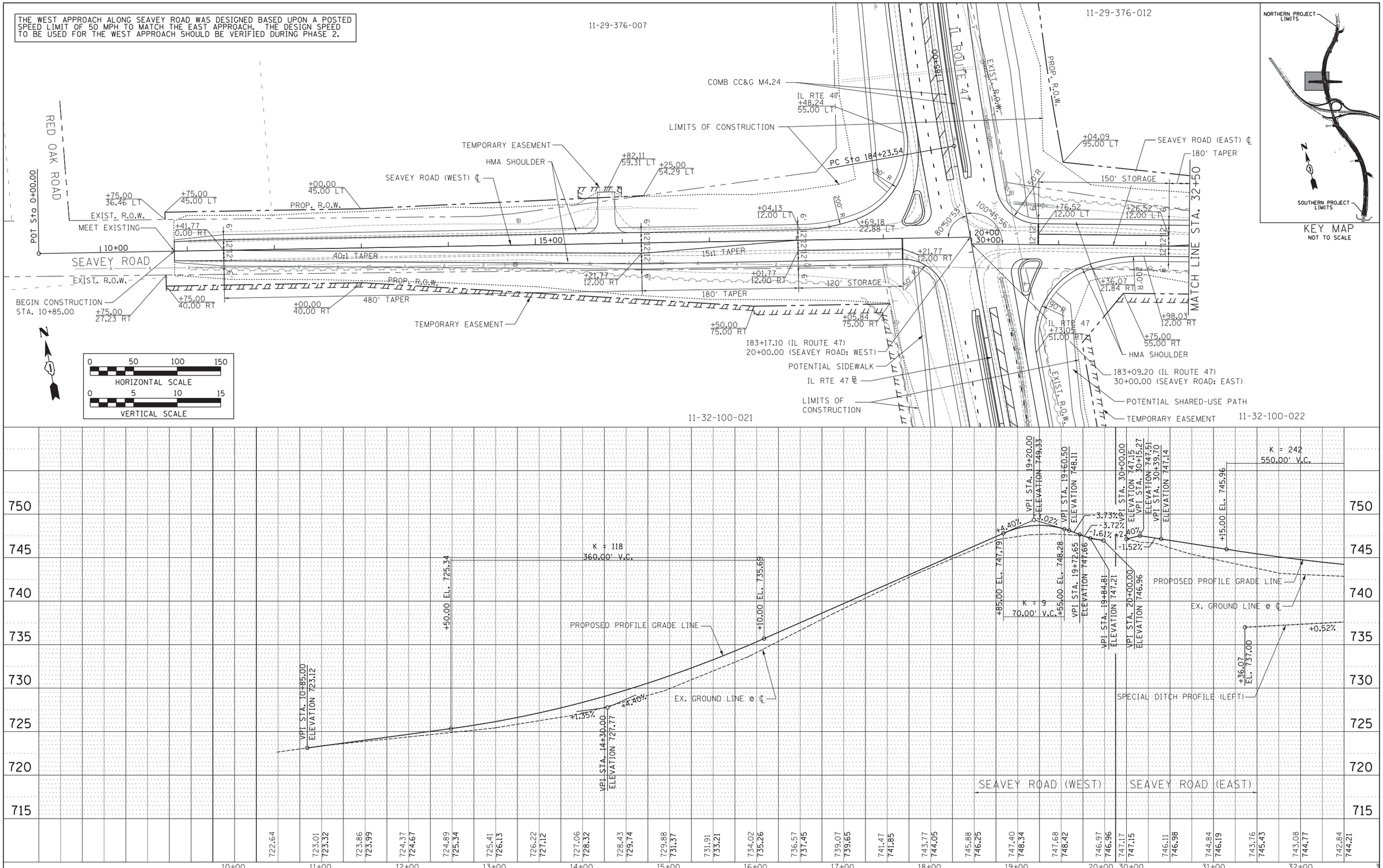
SCALE: SHEET 33 OF 202 SHEETS STA. 497+62 TO STA. 500+00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	14-00028-00-CH	KANE		

CONTRACT NO.

ILLINOIS FED. AID PROJECT P-91-015-14

THE WEST APPROACH ALONG SEAVEY ROAD WAS DESIGNED BASED UPON A POSTED SPEED LIMIT OF 50 MPH TO MATCH THE EAST APPROACH. THE DESIGN SPEED TO BE USED FOR THE WEST APPROACH SHOULD BE VERIFIED DURING PHASE 2.



PLAN	SURVEYED	PLOTTED	ALIGNMENT CHECKED	RT. OF WAY CHECKED	CADD FILE NAME	NOTE BOOK NO.	BY	DATE

PROFILE	SURVEYED	PLOTTED	GRADES CHECKED	BM. NOTED	STRUCTURE NOTATNS CHKD	NOTE BOOK NO.	BY	DATE

GRAEF 8501 W. Higgins Road; Suite 280 Chicago, Illinois 60631 (773) 399-0112

USER NAME = _USER_	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 50.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 06/25/18	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SEAVEY ROAD
PLAN AND PROFILE

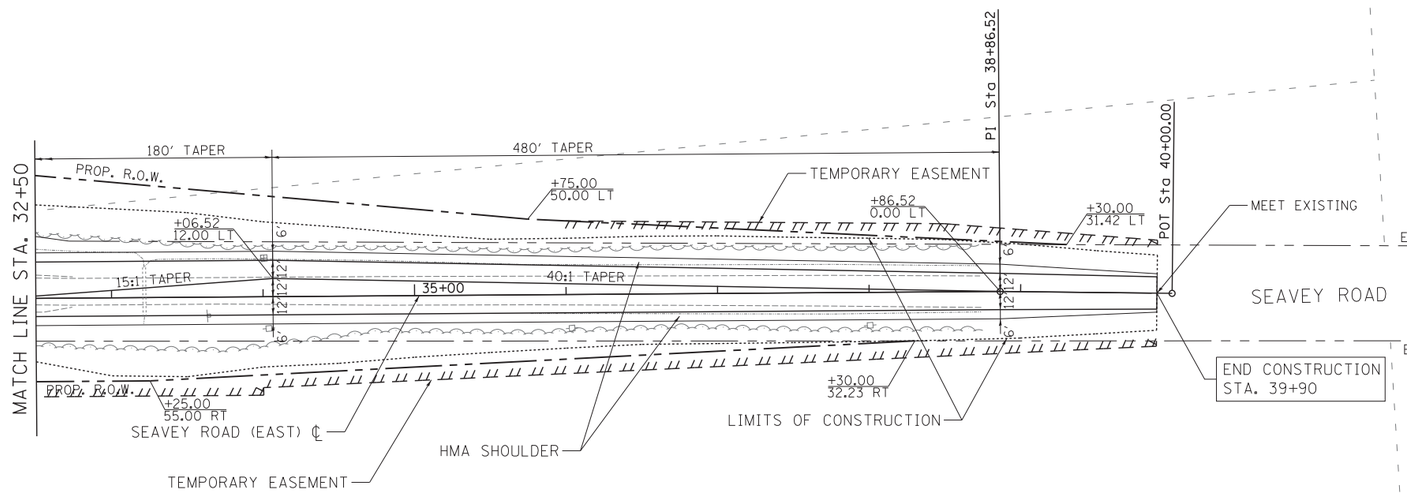
SCALE: SHEET 34 OF 202 SHEETS STA. 4+19 TO STA. 13+00

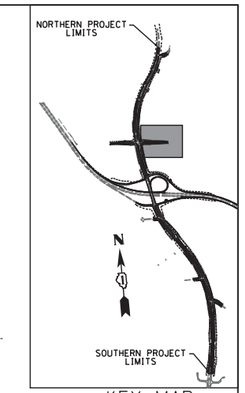
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	14-00028-00-CH	KANE		

CONTRACT NO.

ILLINOIS FED. AID PROJECT P-91-015-14

11-29-376-012



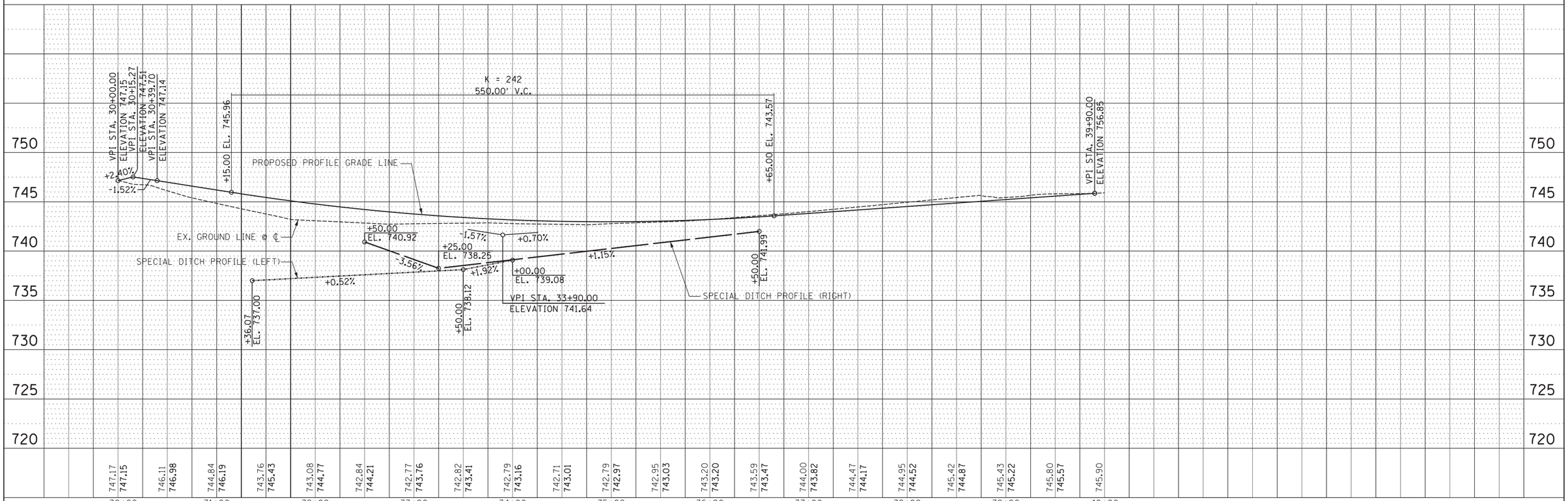


KEY MAP
NOT TO SCALE

N

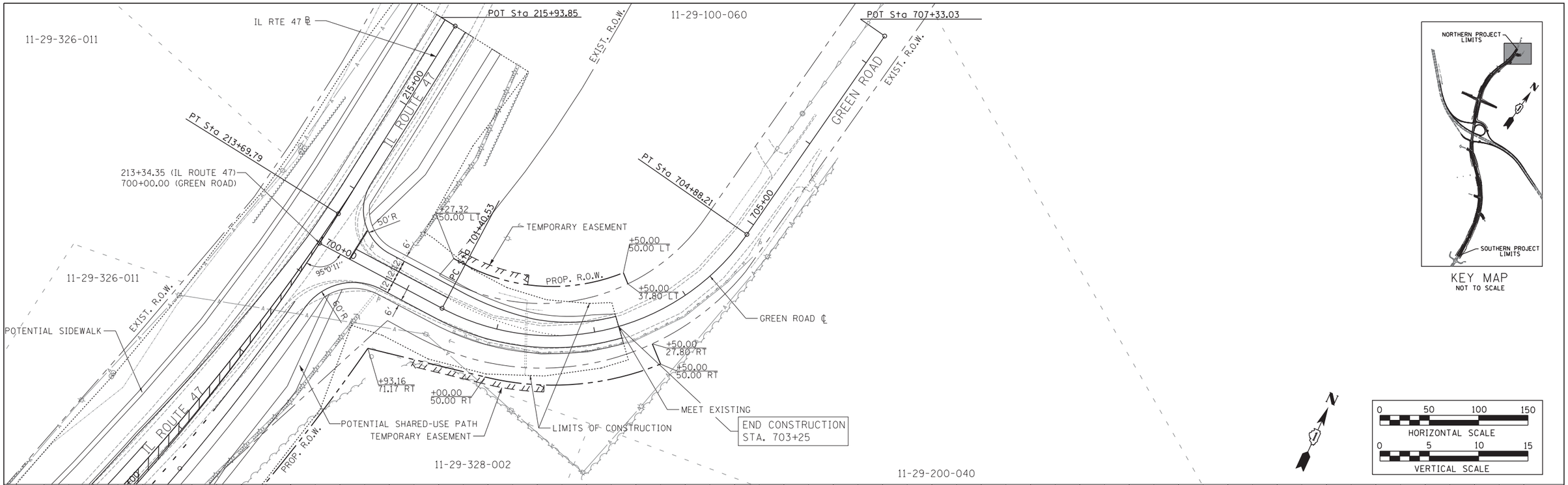
0 50 100 150
HORIZONTAL SCALE
0 5 10 15
VERTICAL SCALE

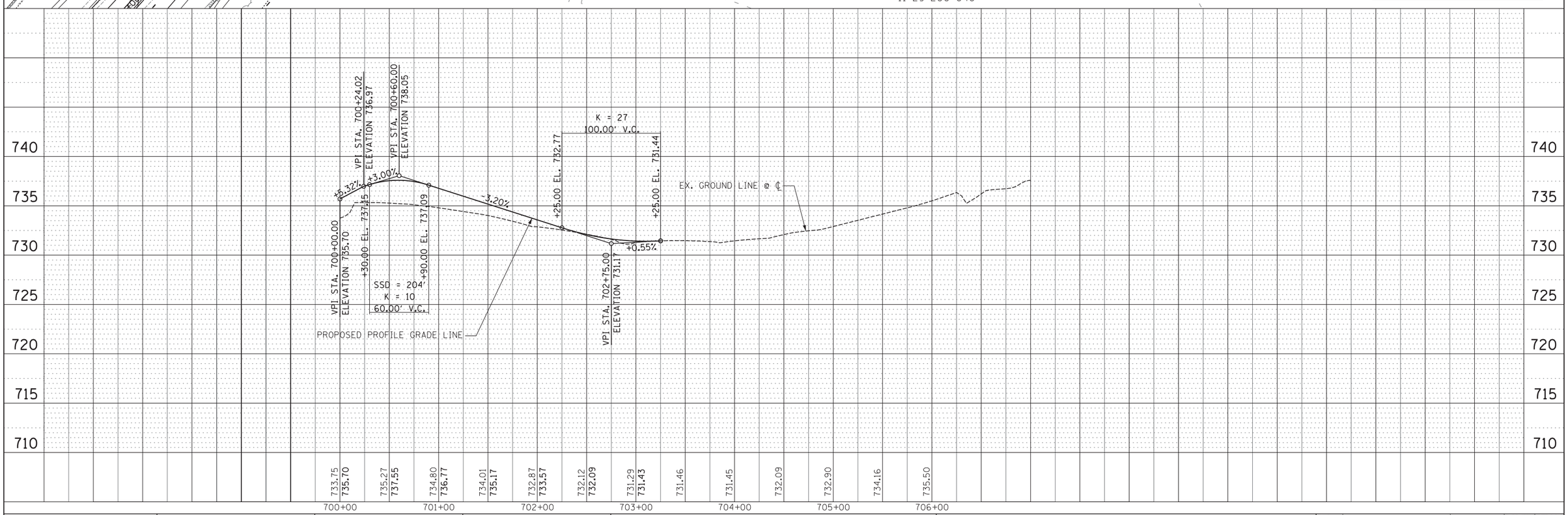
11-32-100-022



GRAEF 8501 W. Higgins Road, Suite 280 Chicago, Illinois 60631 (773) 399-0112	USER NAME = _USER_	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SEAVEY ROAD PLAN AND PROFILE
		DRAWN -	REVISED -		
	PLOT SCALE = 50.0000 ' / in.	CHECKED -	REVISED -		
	PLOT DATE = 06/25/18	DATE -	REVISED -		SCALE: SHEET 35 OF 202 SHEETS STA. 13+00 TO STA. 20+30

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	14-00028-00-CH	KANE		
		CONTRACT NO.		
	ILLINOIS	FED. AID PROJECT P-91-015-14		





PLAN		BY	DATE
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ALIGNMENT CHECKED			
RT. OF WAY CHECKED			
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NOTE BOOK NO.			

PROFILE		BY	DATE
SURVEYED			
PLOTTED			
GRADES CHECKED			
BLM. NOTED			
STRUCTURE NOTATNS CHKD			
NOTE BOOK NO.			

GRAEF 8501 W. Higgins Road; Suite 280 Chicago, Illinois 60631 (773) 399-0112

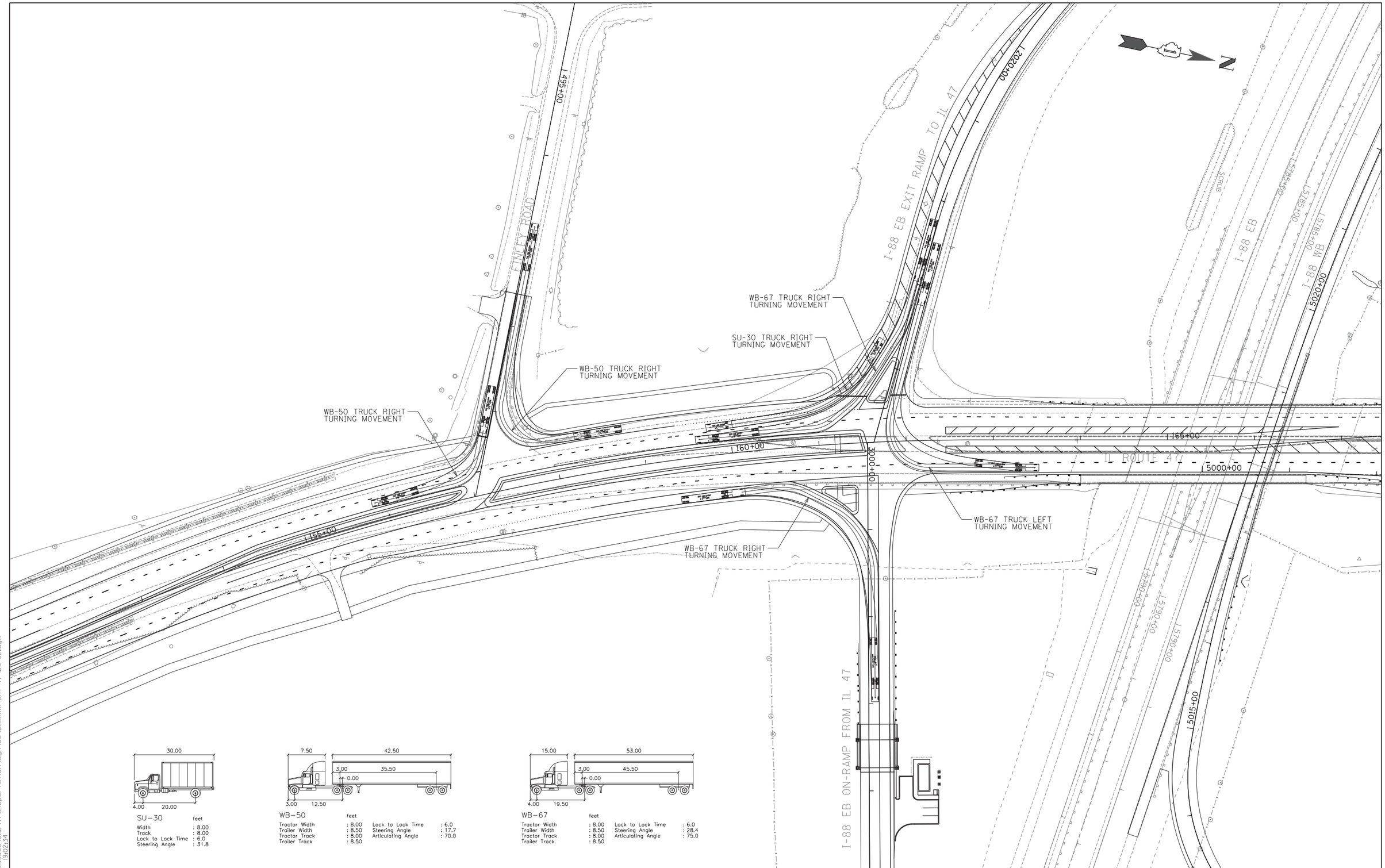
USER NAME = _USER_	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 50.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 06/25/18	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GREEN ROAD
PLAN AND PROFILE

SCALE: SHEET 36 OF 202 SHEETS STA. 700+00 TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	14-00028-00-CH	KANE		
		CONTRACT NO.		
	ILLINOIS	FED. AID PROJECT P-91-015-14		



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GRAEF 8501 W. Higgins Road, Suite 280 Chicago, Illinois 60631 (773) 399-0112

USER NAME = _USER_	DESIGNED - JWB	REVISED -	
	DRAWN - JWB	REVISED -	
PLOT SCALE = 50.0000 ' / in.	CHECKED - PMJ	REVISED -	
PLOT DATE = 06/25/18	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

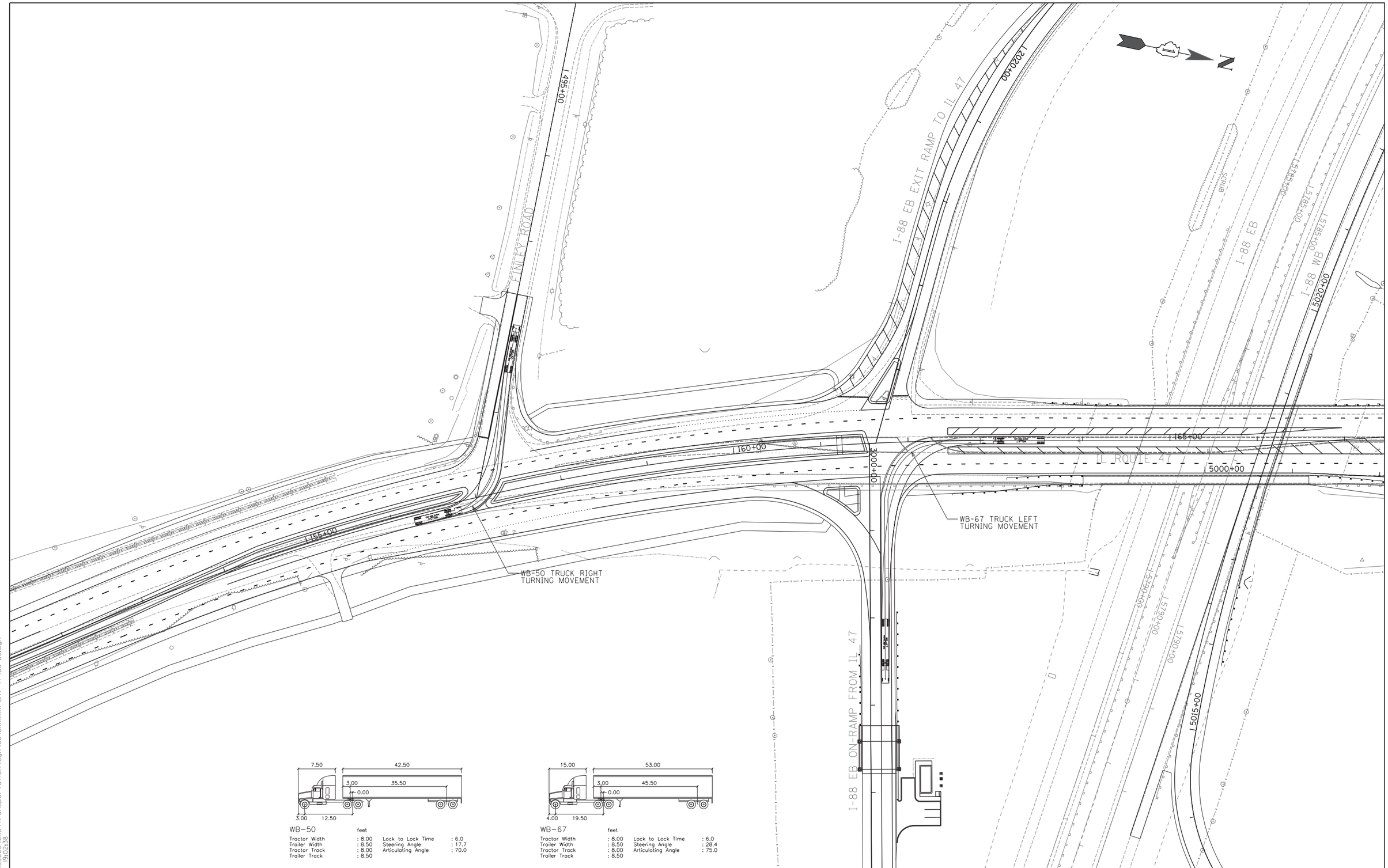
IL ROUTE 47 AT I-88 INTERCHANGE
INTERSECTION DESIGN SOUTH RAMPS

SCALE: 1"=50' | SHEET 37 OF 202 SHEETS | STA. 160+00 TO STA. 175+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	14-00028-00-CH	KANE		

CONTRACT NO.

ILLINOIS FED. AID PROJECT



WB-50 feet

Tractor Width	: 8.00	Lock to Lock Time	: 6.0
Trailer Width	: 8.50	Steering Angle	: 17.7
Tractor Track	: 8.00	Articulating Angle	: 70.0
Trailer Track	: 8.50		

WB-67 feet

Tractor Width	: 8.00	Lock to Lock Time	: 6.0
Trailer Width	: 8.50	Steering Angle	: 28.4
Tractor Track	: 8.00	Articulating Angle	: 75.0
Trailer Track	: 8.50		

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USER NAME = _USER_	DESIGNED - JWB	REVISED -	
	DRAWN - JWB	REVISED -	
PLOT SCALE = 50.0000 ' / in.	CHECKED - PMJ	REVISED -	
PLOT DATE = 06/25/18	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

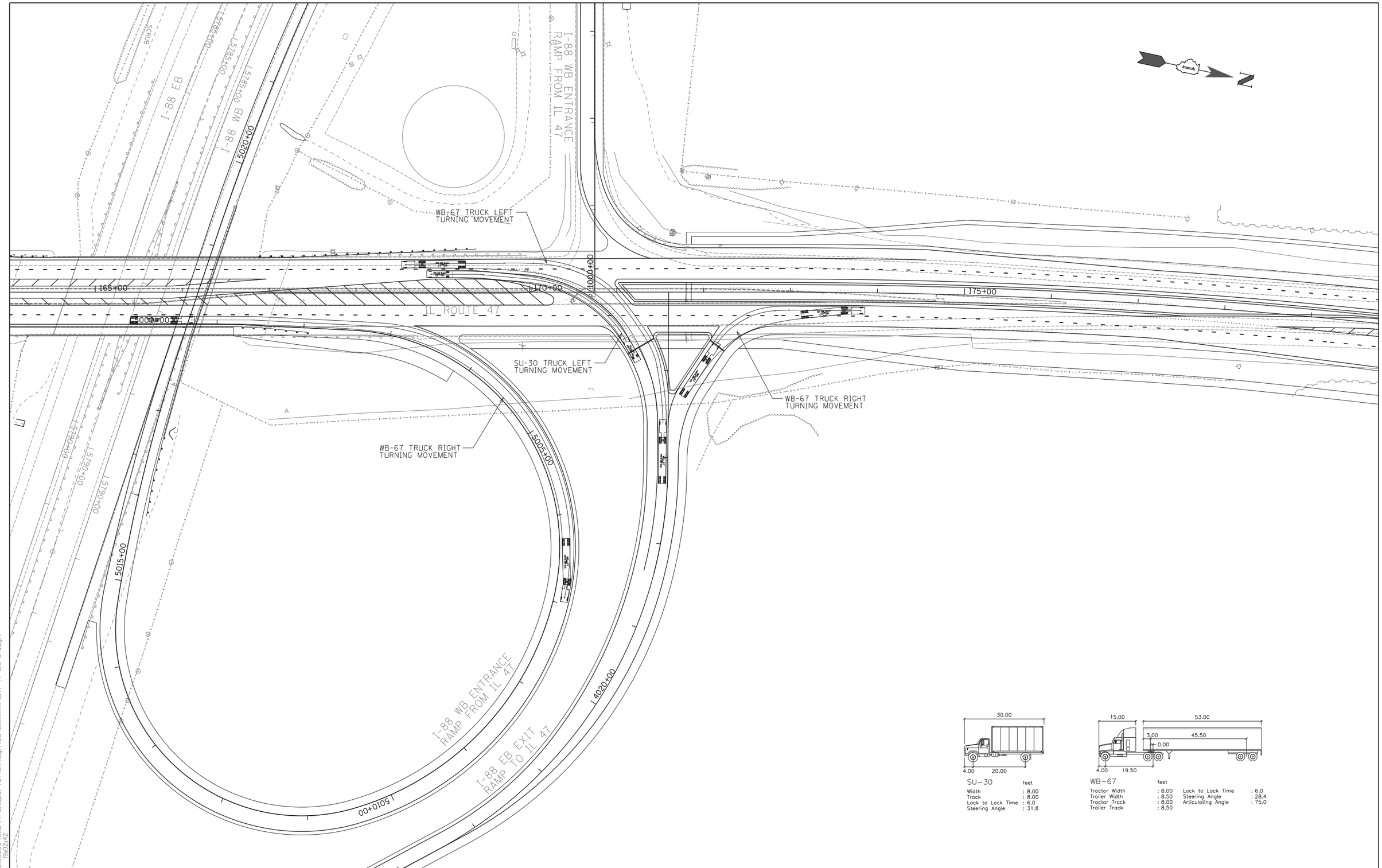
IL ROUTE 47 AT I-88 INTERCHANGE
INTERSECTION DESIGN SOUTH RAMPS

SCALE: 1"=50' | SHEET 38 OF 202 SHEETS | STA. 160+00 TO STA. 175+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	14-00028-00-CH	KANE		

CONTRACT NO.

ILLINOIS FED. AID PROJECT



SU-30 feet

Width	: 8.00
Track	: 8.00
Lock to Lock Time	: 6.0
Steering Angle	: 31.8

WB-67 feet

Tractor Width	: 8.00	Lock to Lock Time	: 6.0
Trailer Width	: 8.50	Steering Angle	: 28.4
Tractor Track	: 8.00	Articulating Angle	: 75.0
Trailer Track	: 8.50		

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06/25/18 19:02:42

GRAEF 8501 W. Higgins Road, Suite 280 Chicago, Illinois 60631 (773) 399-0112

USER NAME = _USER_	DESIGNED - JWB	REVISED -
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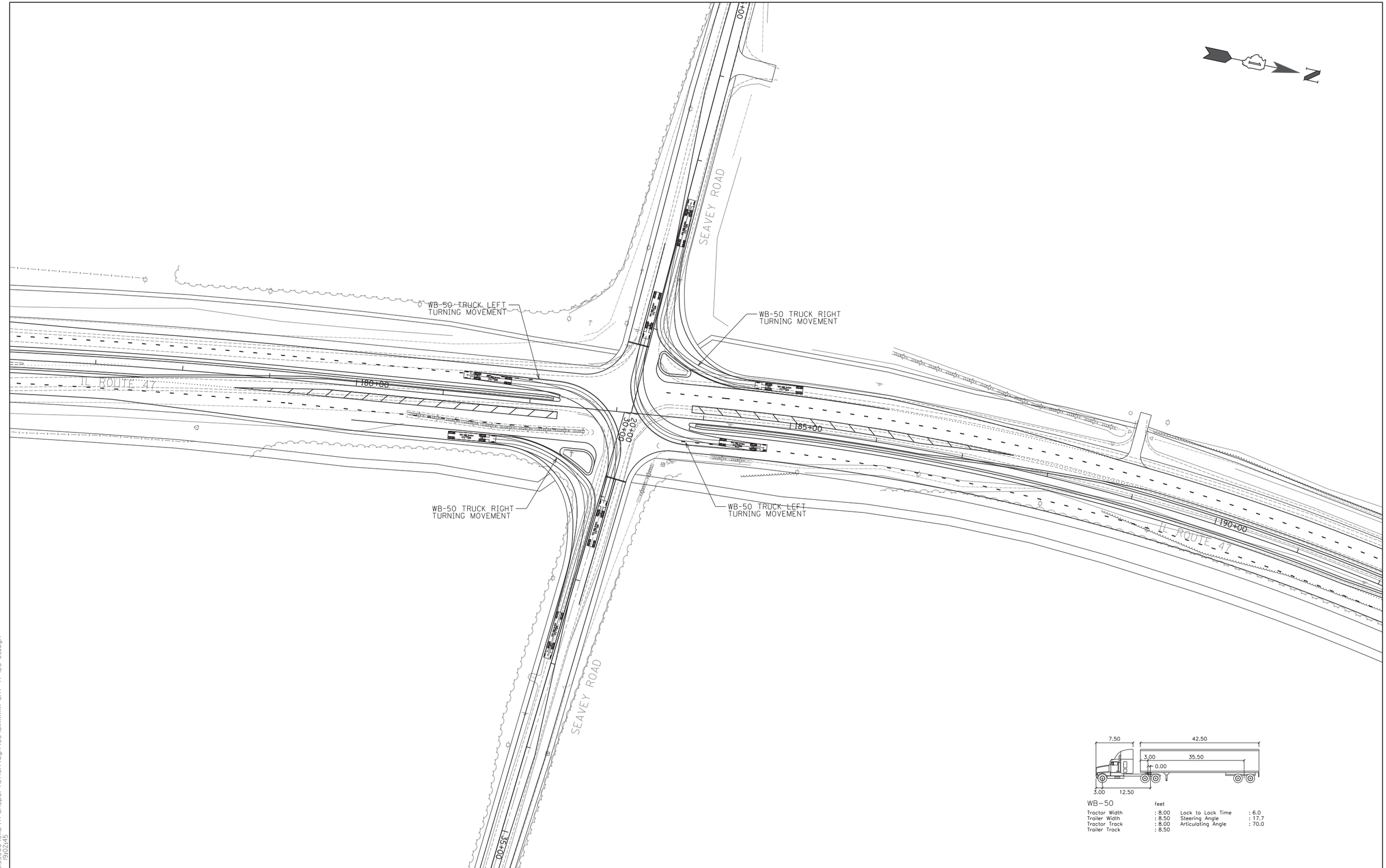
PLOT SCALE = 50.0000 ' / in.	CHECKED - PMJ	REVISED -
PLOT DATE = 06/25/18	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL ROUTE 47 AT I-88 INTERCHANGE
INTERSECTION DESIGN NORTH RAMPS

SCALE: 1"=50' | SHEET 39 OF 202 SHEETS | STA. 160+00 TO STA. 175+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	14-00028-00-CH	KANE		
		CONTRACT NO.		
		ILLINOIS FED. AID PROJECT		



WB-50 feet

Tractor Width	: 8.00	Lock to Lock Time	: 6.0
Trailer Width	: 8.50	Steering Angle	: 17.7
Tractor Track	: 8.00	Articulating Angle	: 70.0
Trailer Track	: 8.50		

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GRAEF 8501 W. Higgins Road; Suite 280 Chicago, Illinois 60631 (773) 399-0112

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PLOT SCALE = 50.0000 ' / in.	CHECKED - PMJ	REVISED -	
PLOT DATE = 06/25/18	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

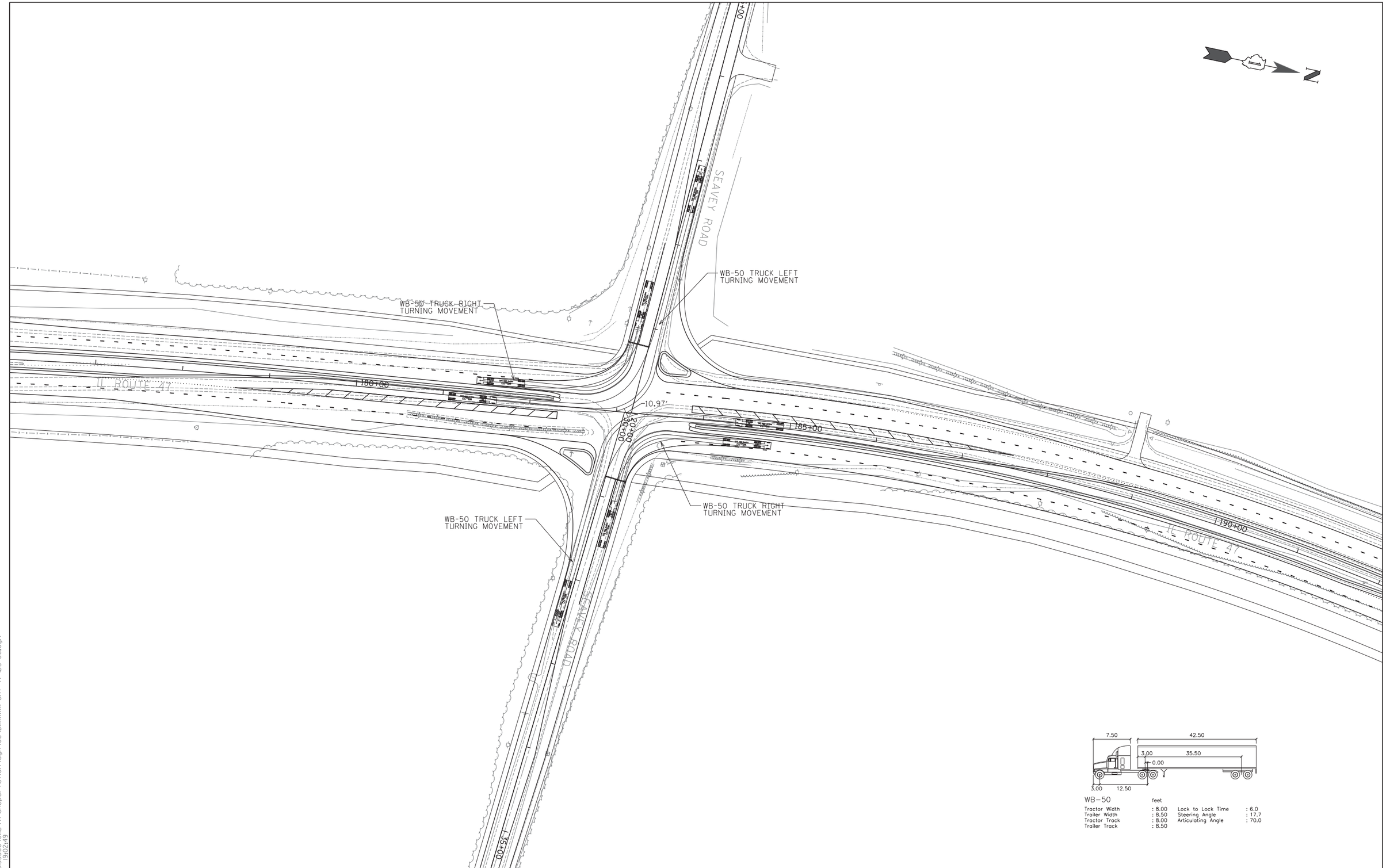
IL ROUTE 47 AT I-88 INTERCHANGE
INTERSECTION DESIGN SEAVEY ROAD

SCALE: 1"=50' | SHEET 40 OF 202 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	14-00028-00-CH	KANE		

CONTRACT NO.

ILLINOIS FED. AID PROJECT



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GRAEF
8501 W. Higgins Road; Suite 280
Chicago, Illinois 60631
(773) 399-0112

USER NAME = _USER_	DESIGNED - JWB	REVISED -
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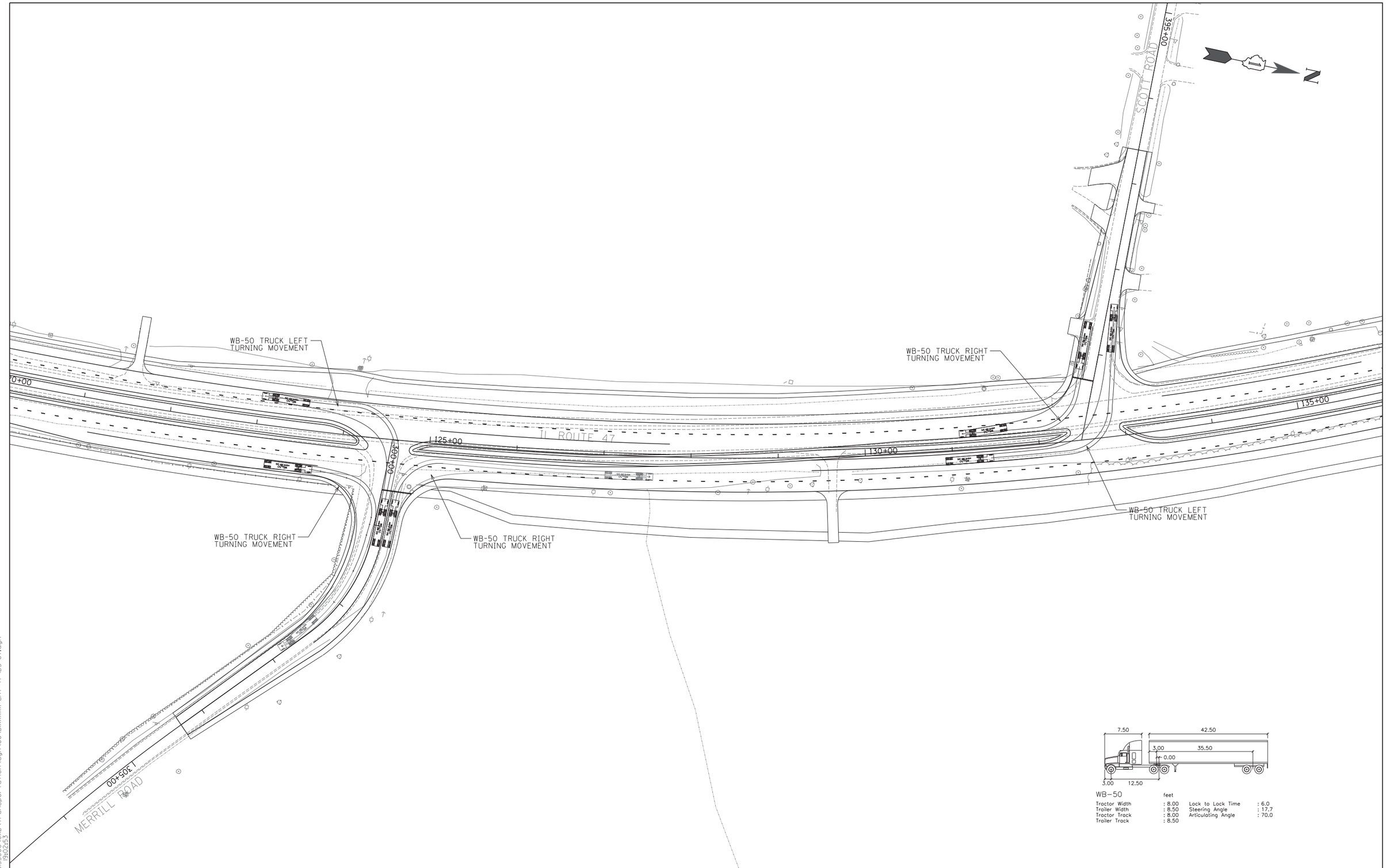
PLOT SCALE = 50.0000 ' / in.	CHECKED - PMJ	REVISED -
PLOT DATE = 06/25/18	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL ROUTE 47 AT I-88 INTERCHANGE
INTERSECTION DESIGN SEAVEY ROAD

SCALE: 1"=50' | SHEET 41 OF 202 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	14-00028-00-CH	KANE		
		CONTRACT NO.		
		ILLINOIS FED. AID PROJECT		



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GRÄEF 8501 W. Higgins Road, Suite 280 Chicago, Illinois 60631 (773) 399-0112

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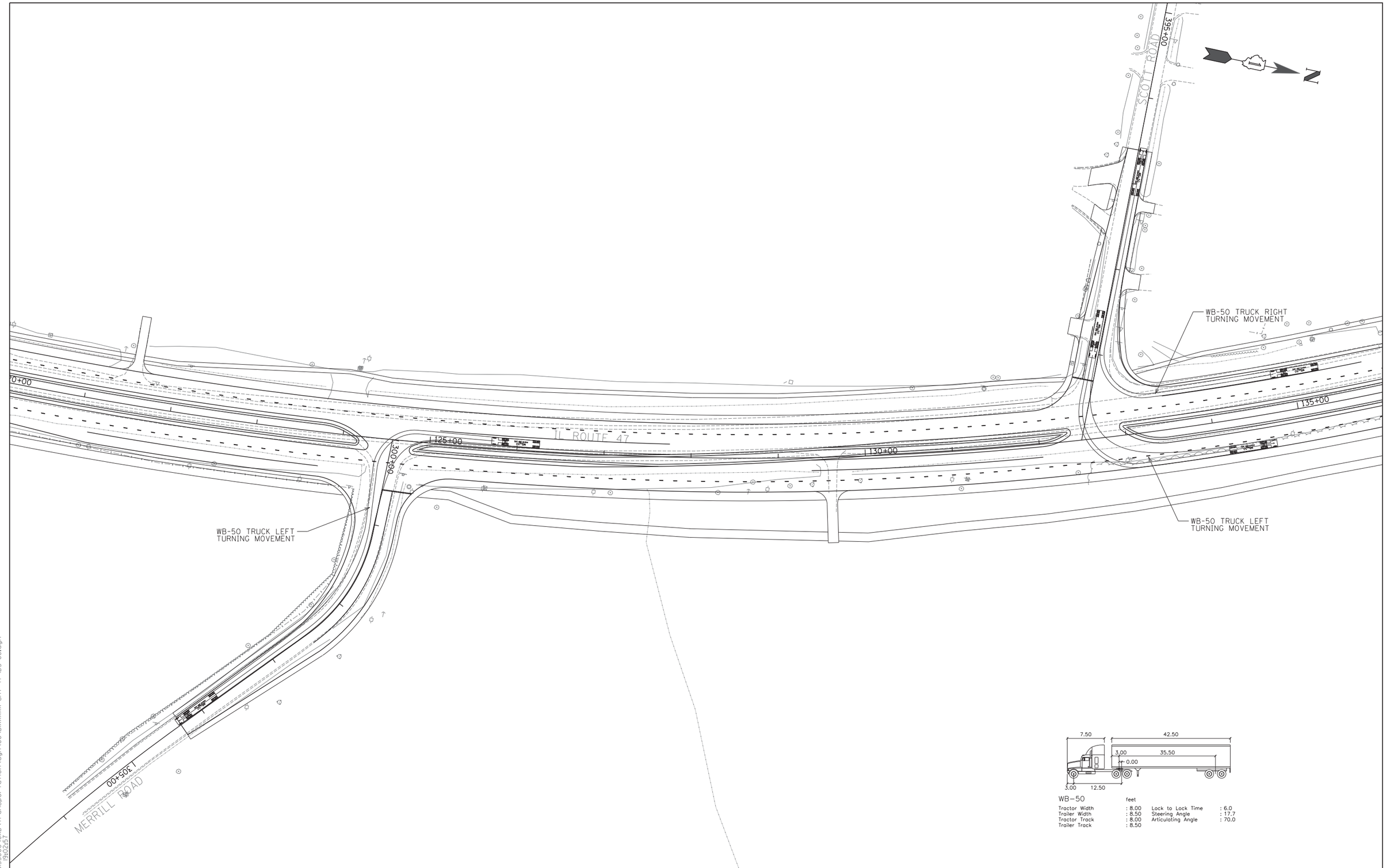
PLOT DATE = 06/25/18	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL ROUTE 47 AT I-88 INTERCHANGE
INTERSECTION DESIGN

SCALE: 1"=50' | SHEET 42 OF 202 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	14-00028-00-CH	KANE		
		CONTRACT NO.		
		ILLINOIS FED. AID PROJECT		



WB-50 feet

Tractor Width	: 8.00	Lock to Lock Time	: 6.0
Trailer Width	: 8.50	Steering Angle	: 17.7
Tractor Track	: 8.00	Articulating Angle	: 70.0
Trailer Track	: 8.50		

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GRAEF 8501 W. Higgins Road; Suite 280 Chicago, Illinois 60631 (773) 399-0112

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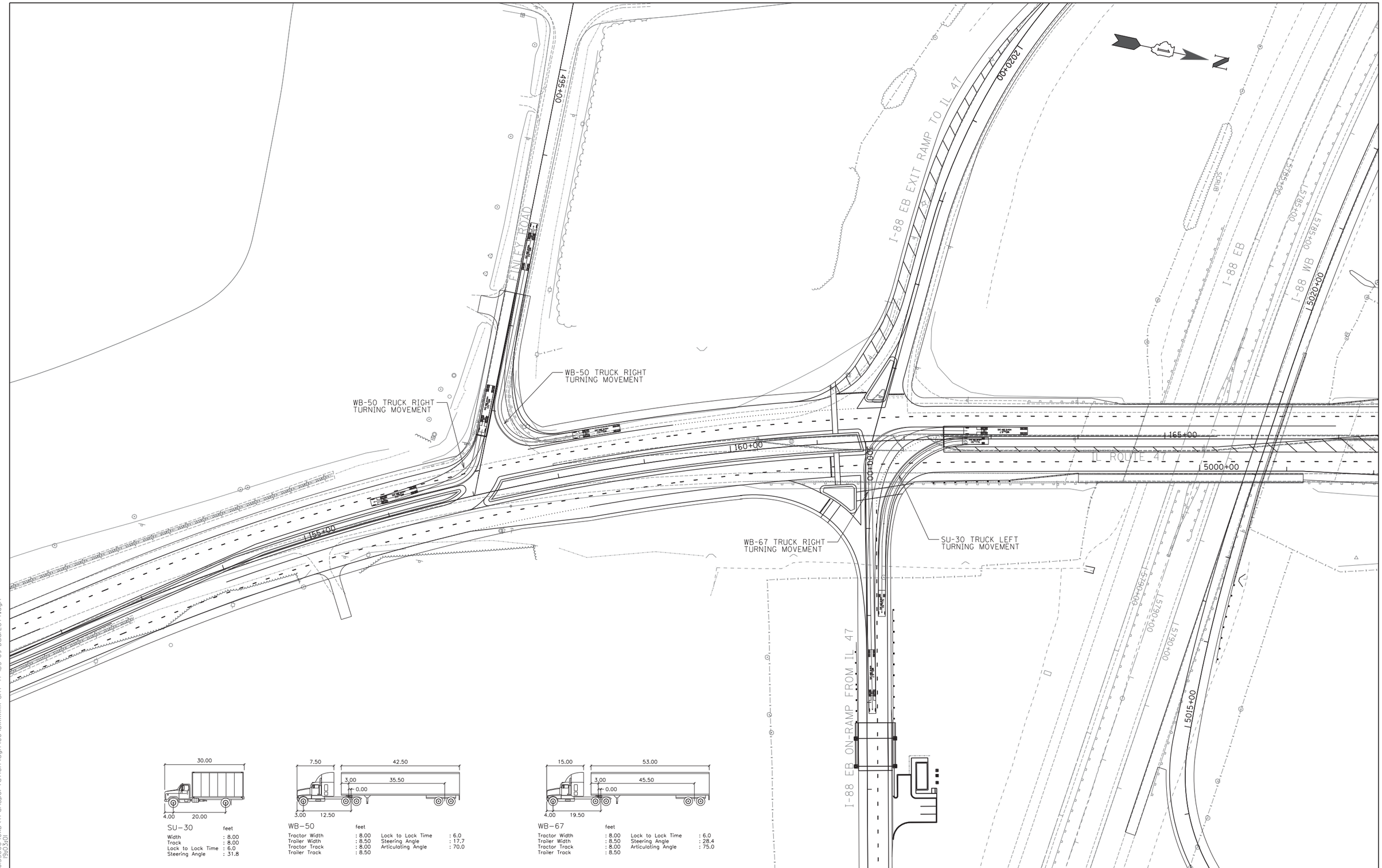
PLOT DATE = 06/25/18	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL ROUTE 47 AT I-88 INTERCHANGE
INTERSECTION DESIGN

SCALE: 1"=50' | SHEET 43 OF 202 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	14-00028-00-CH	KANE		
		CONTRACT NO.		
		ILLINOIS FED. AID PROJECT		



SU-30 feet

Width	: 8.00
Track	: 8.00
Lock to Lock Time	: 6.0
Steering Angle	: 31.8

WB-50 feet

Tractor Width	: 8.00	Lock to Lock Time	: 6.0
Trailer Width	: 8.50	Steering Angle	: 17.7
Tractor Track	: 8.00	Articulating Angle	: 70.0
Trailer Track	: 8.50		

WB-67 feet

Tractor Width	: 8.00	Lock to Lock Time	: 6.0
Trailer Width	: 8.50	Steering Angle	: 28.4
Tractor Track	: 8.00	Articulating Angle	: 75.0
Trailer Track	: 8.50		

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USER NAME = _USER_	DESIGNED - JWB	REVISED -	
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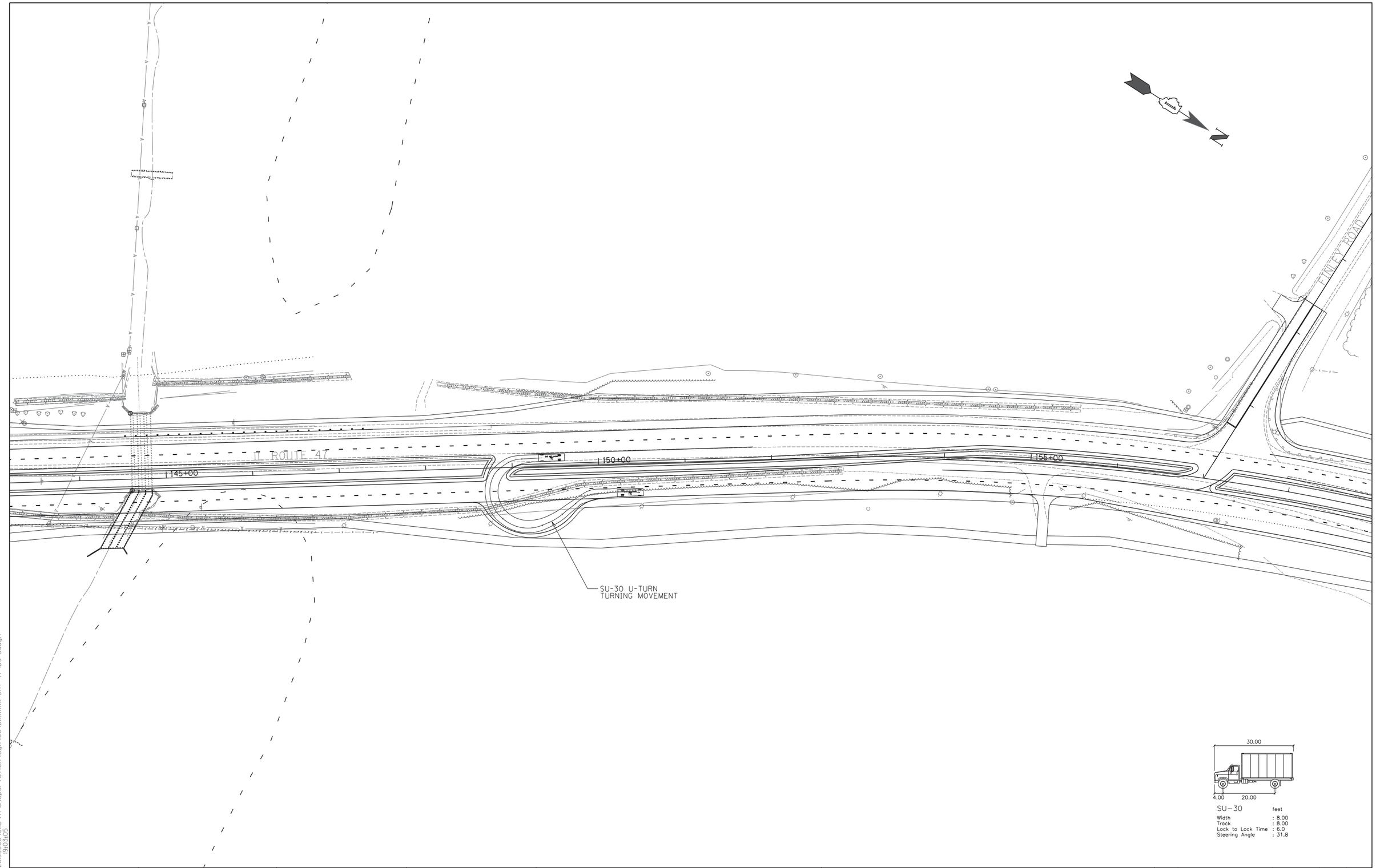
PLOT SCALE = 50.0000 ' / in.	CHECKED - PMJ	REVISED -	
PLOT DATE = 06/25/18	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL ROUTE 47 AT I-88 INTERCHANGE
INTERSECTION DESIGN SOUTH RAMPS

SCALE: 1"=50' | SHEET 44 OF 202 SHEETS | STA. 160+00 TO STA. 175+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	14-00028-00-CH	KANE		
		CONTRACT NO.		
	ILLINOIS FED. AID PROJECT			



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GRAEF
8501 W. Higgins Road, Suite 280
Chicago, Illinois 60631
(773) 399-0112

USER NAME = _USER_	DESIGNED - JWB	REVISED -
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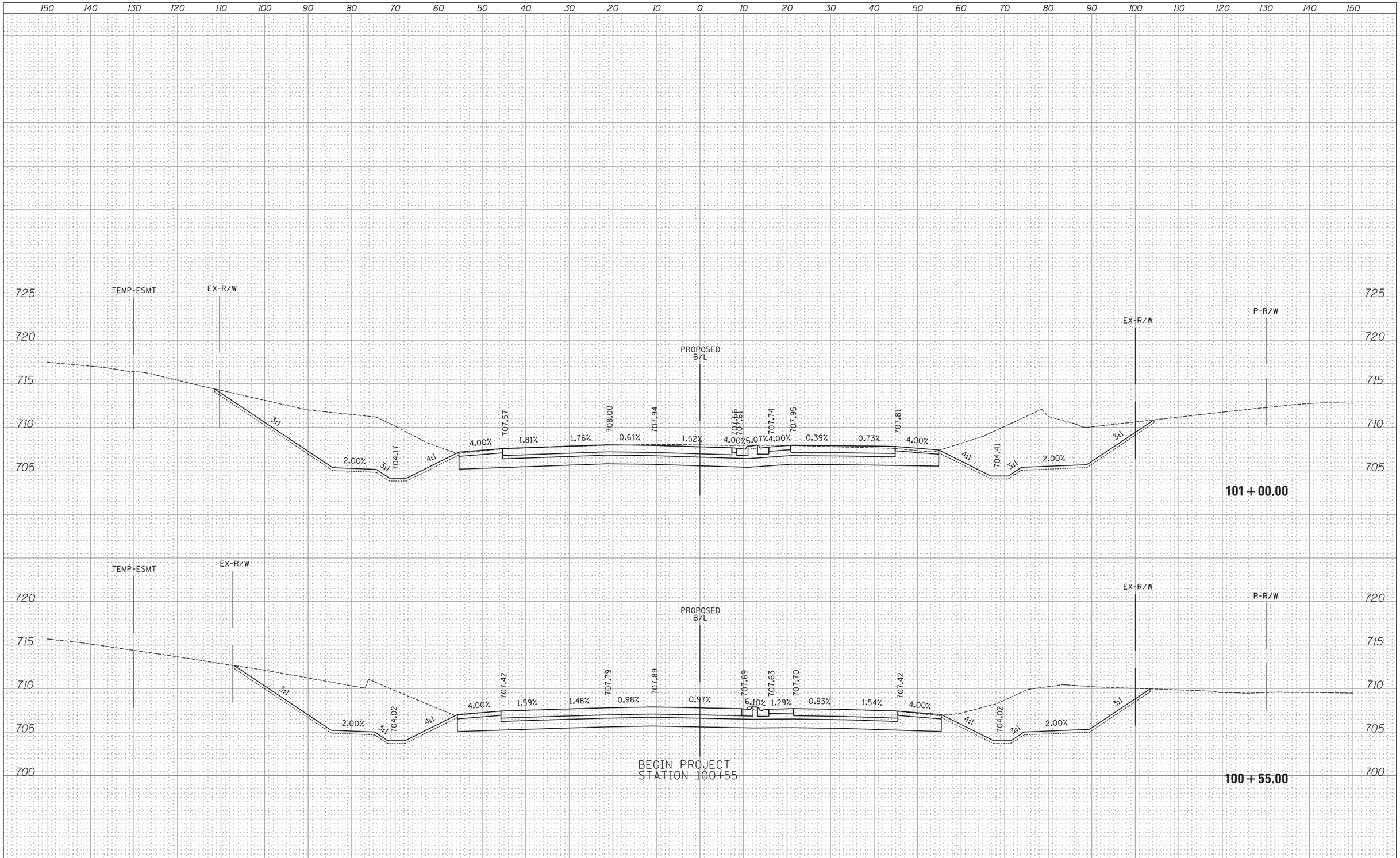
PLOT SCALE = 50.0000 ' / in.	CHECKED - PMJ	REVISED -
PLOT DATE = 06/25/18	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL ROUTE 47 AT I-88 INTERCHANGE
INTERSECTION DESIGN U-TURN

SCALE: 1"=50' | SHEET 45 OF 202 SHEETS | STA. 145+00 TO STA. 155+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	14-00028-00-CH	KANE		
		CONTRACT NO.		
	ILLINOIS	FED. AID PROJECT		



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

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

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$MODELNAME$	PLOT DATE = 06/25/18	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

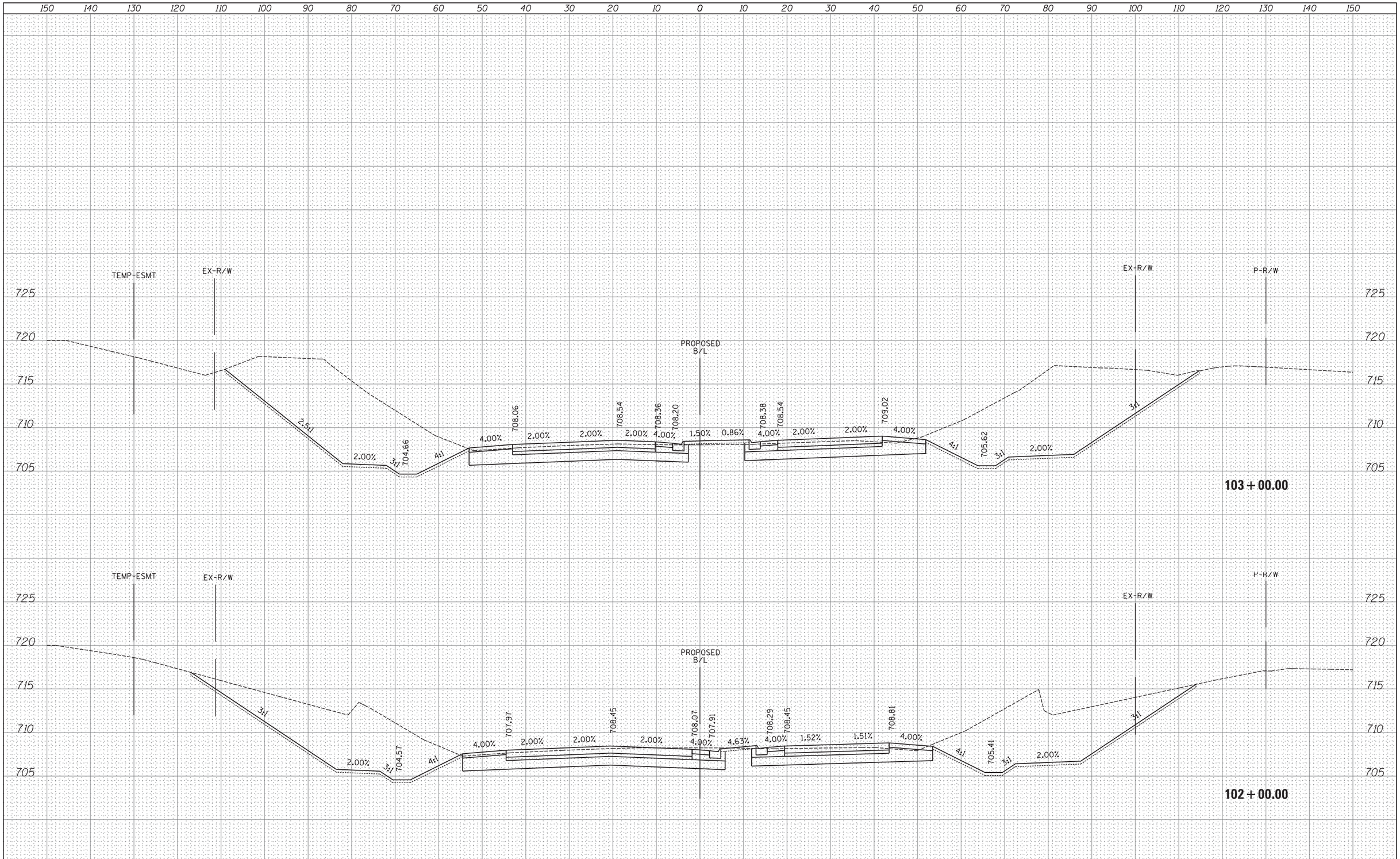
PROPOSED CROSS SECTIONS
IL ROUTE 47

SCALE: 1" = 10' | SHEET 46 OF 202 SHEETS | STA. 100+55.00 TO STA. 101+00.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
47				

CONTRACT NO.

ILLINOIS FED. AID PROJECT



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NOTE BOOK	SURVEYED		
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NO.	AREAS CHECKED		

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NOTE BOOK	SURVEYED		
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	TEMPLATE		
	AREAS		
NO.	AREAS CHECKED		

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$MODELNAME$	PLOT DATE = 06/25/18	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

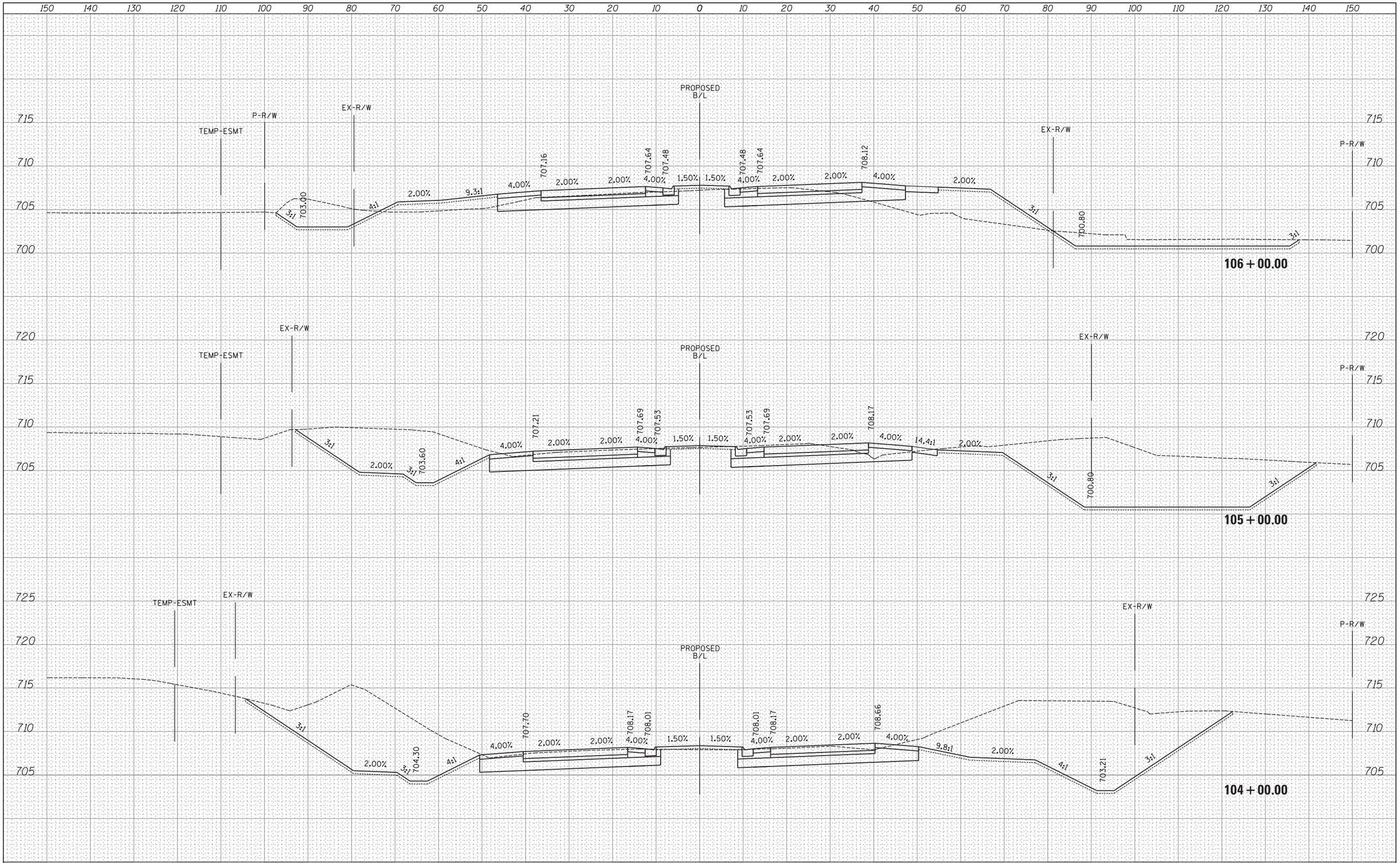
PROPOSED CROSS SECTIONS
IL ROUTE 47

SCALE: 1" = 10' | SHEET 47 OF 202 SHEETS | STA. 102+00.00 TO STA. 103+00.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
47				

CONTRACT NO.

ILLINOIS | FED. AID PROJECT



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$MODELNAME$	PLOT DATE = 06/25/18	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED CROSS SECTIONS
IL ROUTE 47

SCALE: 1" = 10' | SHEET 48 OF 202 SHEETS | STA. 104+00.00 TO STA. 106+00.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
47				

CONTRACT NO.

ILLINOIS | FED. AID PROJECT

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

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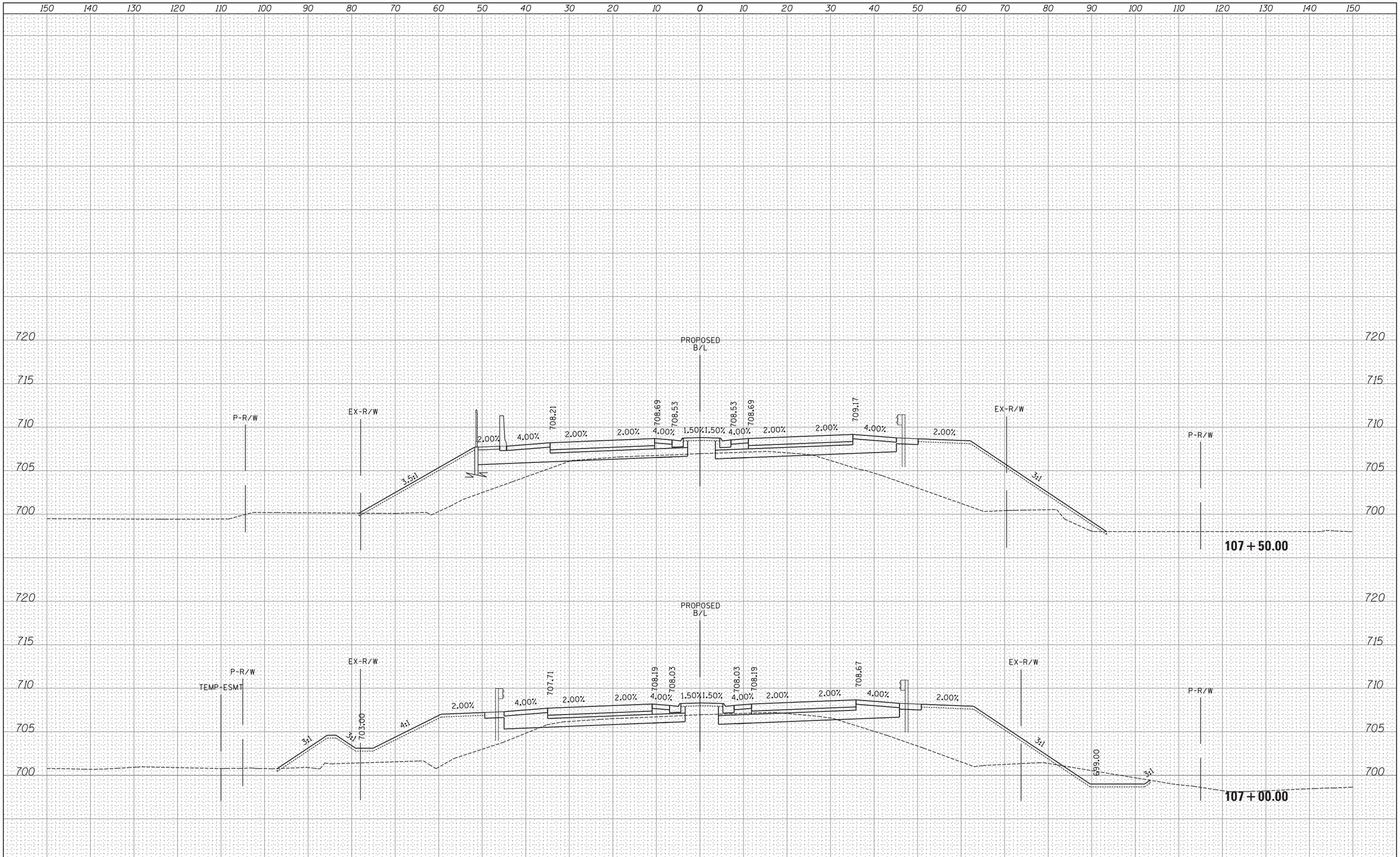
TEMPLATE		
AREAS		
AREAS CHECKED		
NOTE BOOK NO.		



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$MODELNAME$	PLOT DATE = 06/25/18	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED CROSS SECTIONS
IL ROUTE 47

SCALE: 1" = 10' | SHEET 49 OF 202 SHEETS | STA. 107+00.00 TO STA. 107+50.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
47				

CONTRACT NO.

ILLINOIS | FED. AID PROJECT

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

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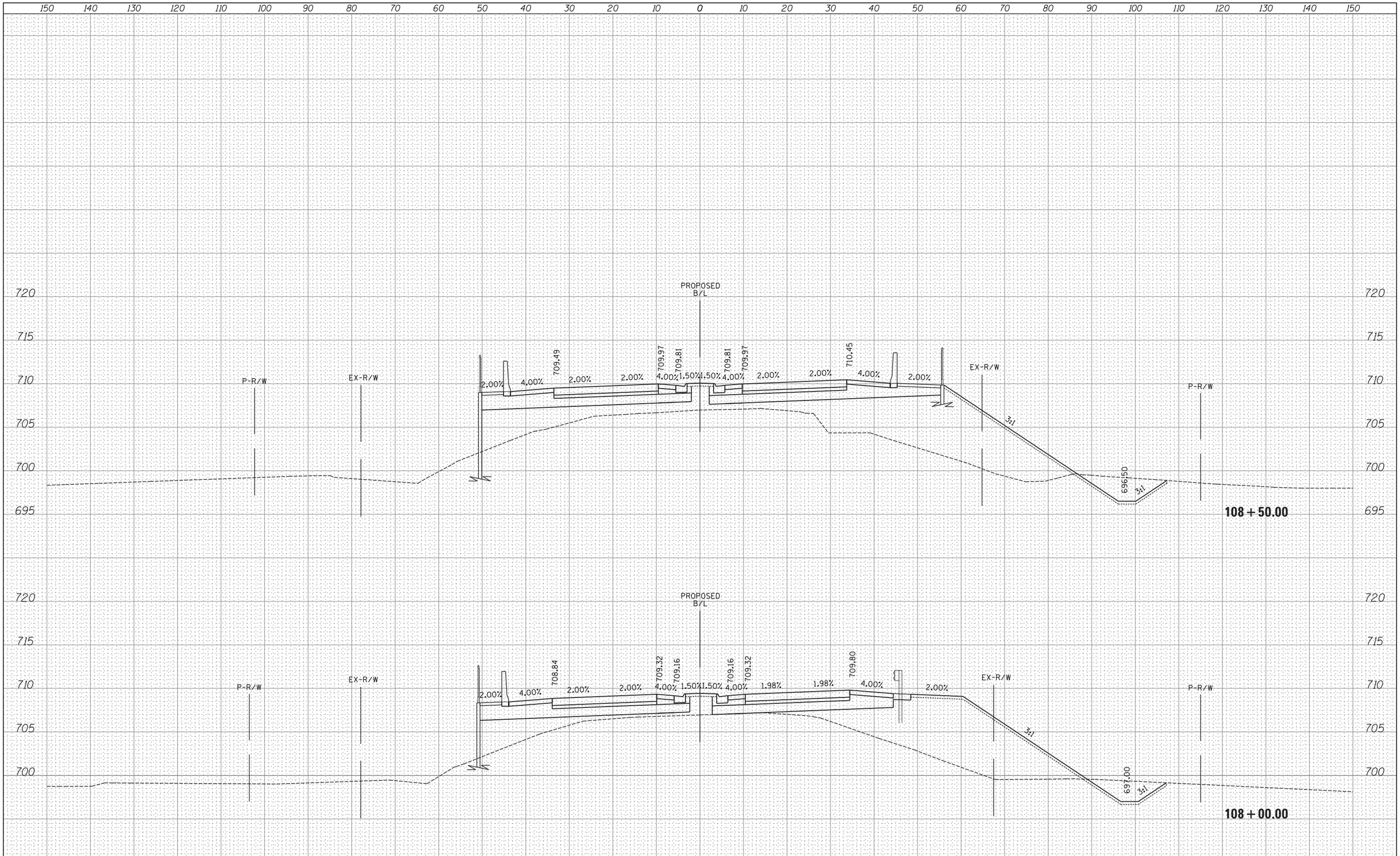
SURVEYED		
PLOTTED		
TEMPLATE		
AREAS		
AREAS CHECKED		
NOTE BOOK NO.		



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SURVEYED		
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NOTE BOOK NO.		

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$MODELNAME$	PLOT DATE = 06/25/18	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

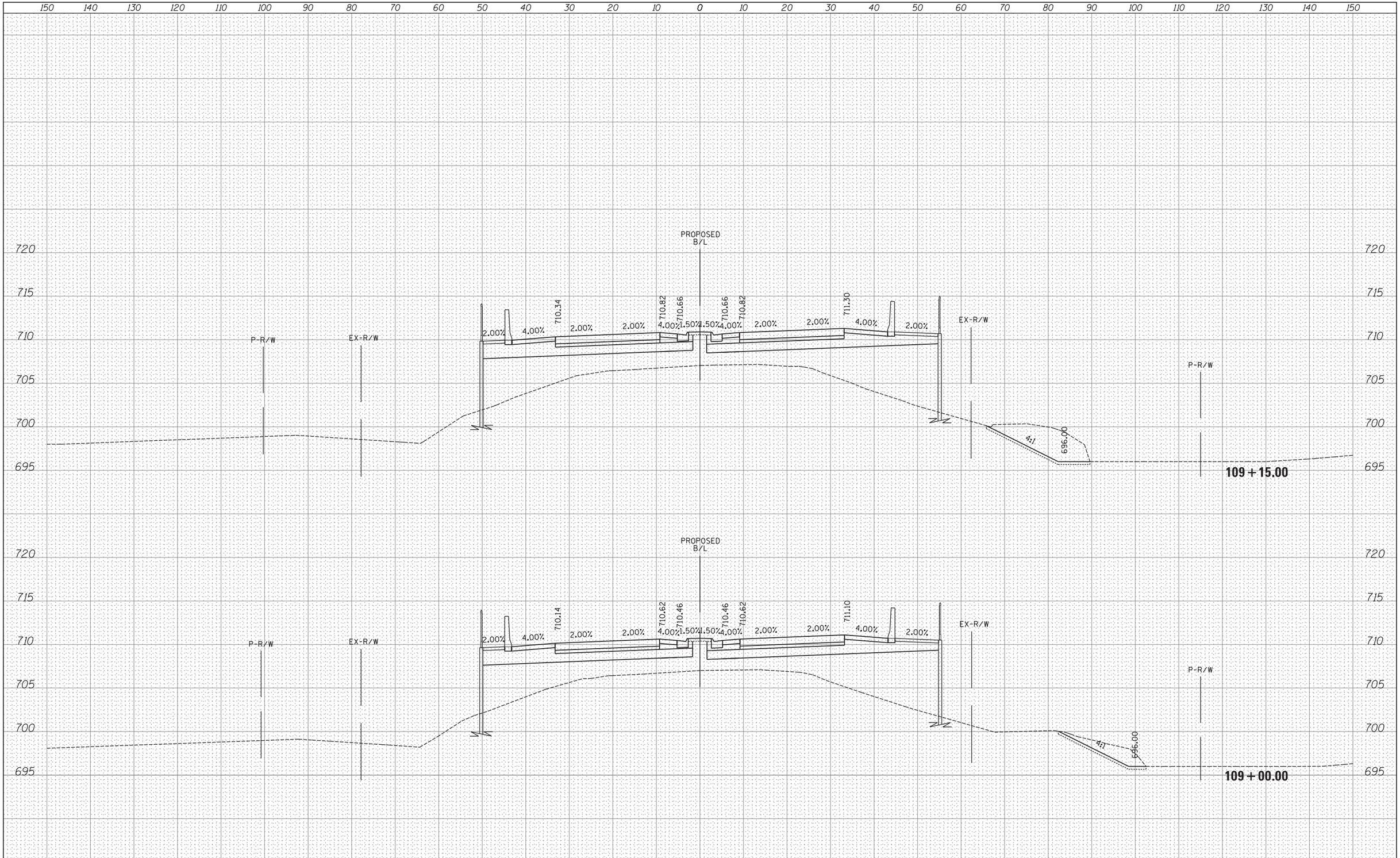
PROPOSED CROSS SECTIONS
IL ROUTE 47

SCALE: 1" = 10' | SHEET 50 OF 202 SHEETS | STA. 108+00.00 TO STA. 108+50.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
47				

CONTRACT NO.

ILLINOIS FED. AID PROJECT



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

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

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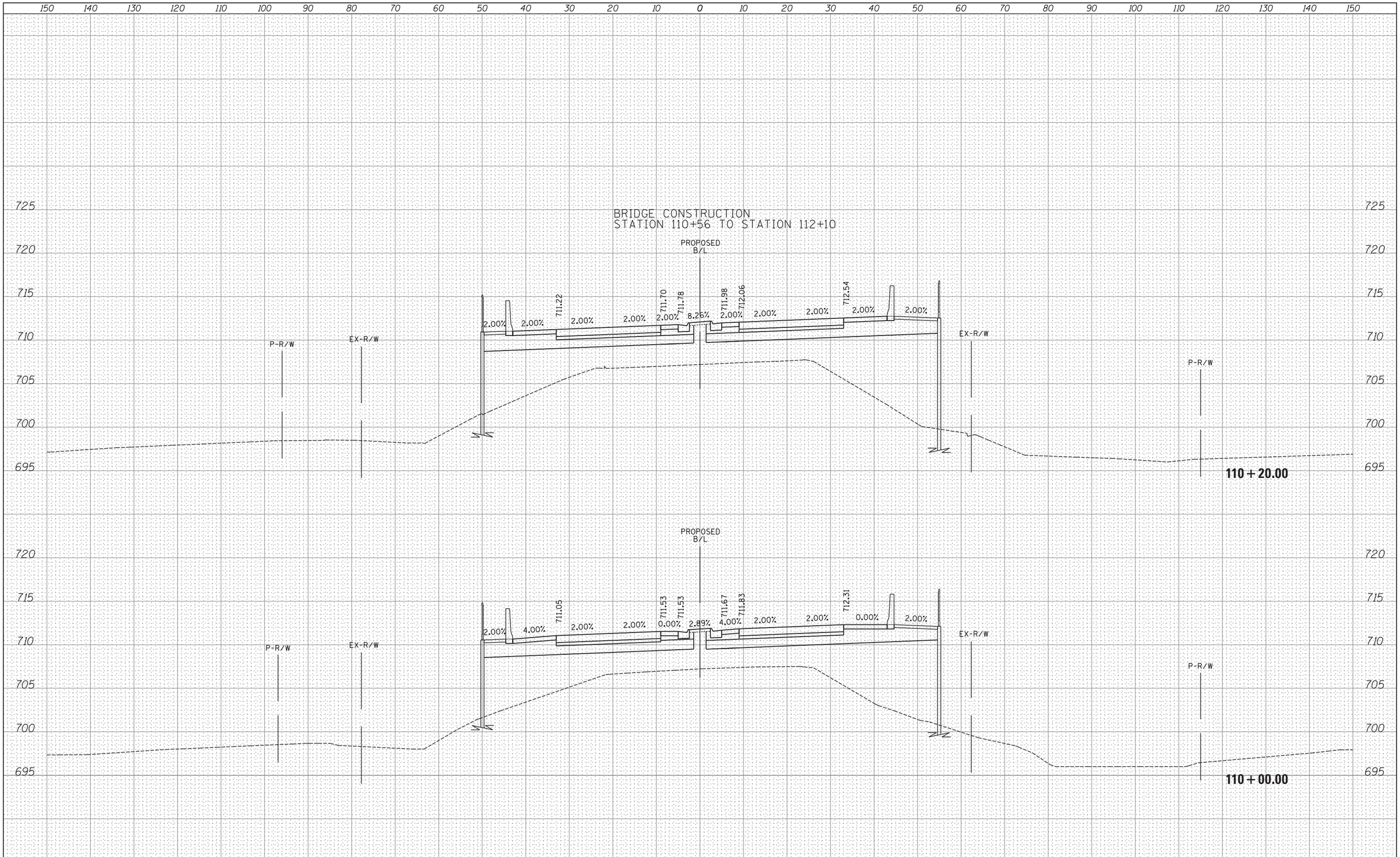
$MODELNAME$	PLOT DATE = 06/25/18	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED CROSS SECTIONS
IL ROUTE 47

SCALE: 1" = 10' | SHEET 51 OF 202 SHEETS | STA. 109+00.00 TO STA. 109+15.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
47				
		CONTRACT NO.		
	ILLINOIS	FED. AID PROJECT		



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

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$MODELNAME$	PLOT DATE = 06/25/18	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

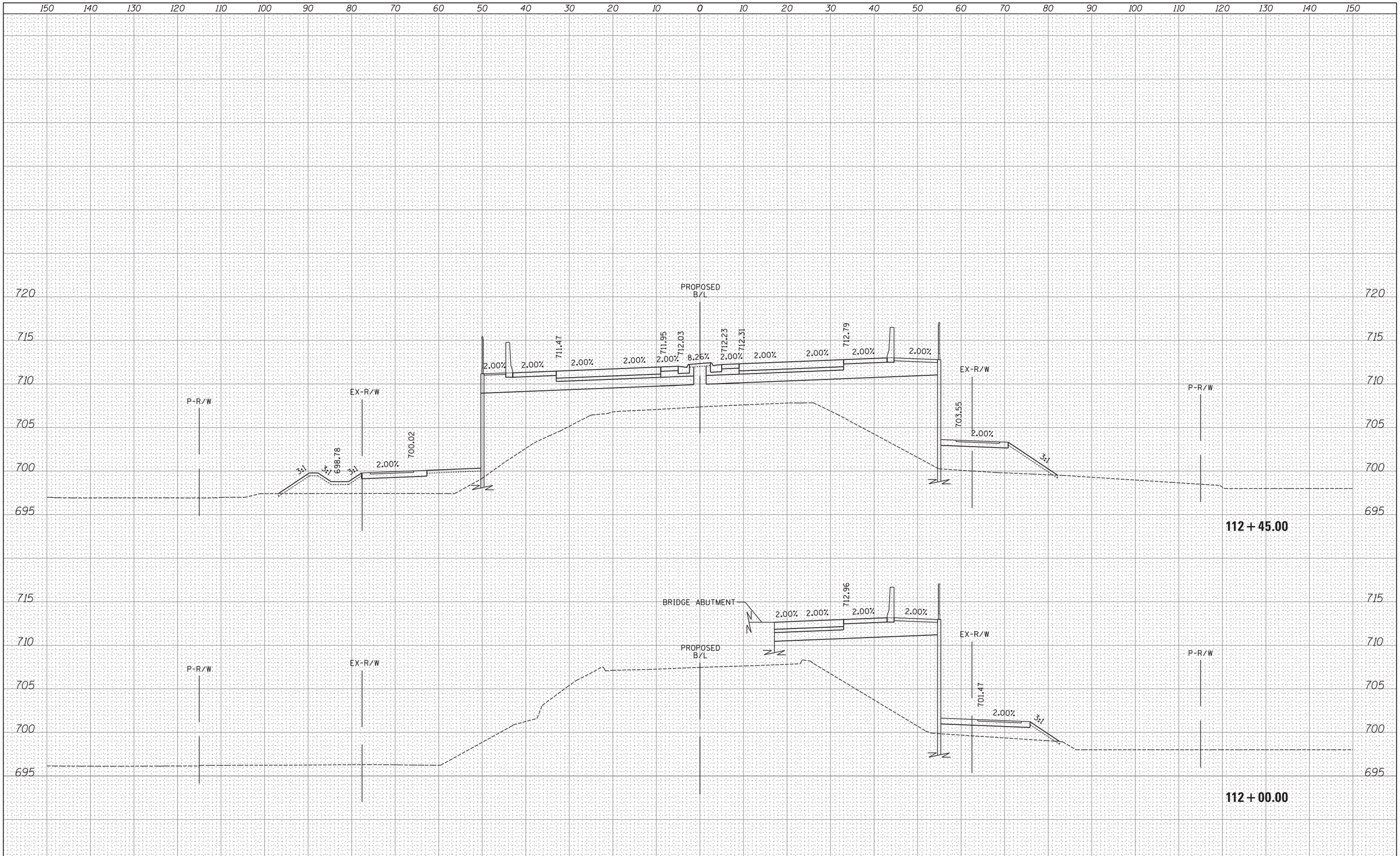
PROPOSED CROSS SECTIONS
IL ROUTE 47

SCALE: 1" = 10' | SHEET 52 OF 202 SHEETS | STA. 110+00.00 TO STA. 110+20.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
47				

CONTRACT NO.

ILLINOIS | FED. AID PROJECT



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

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

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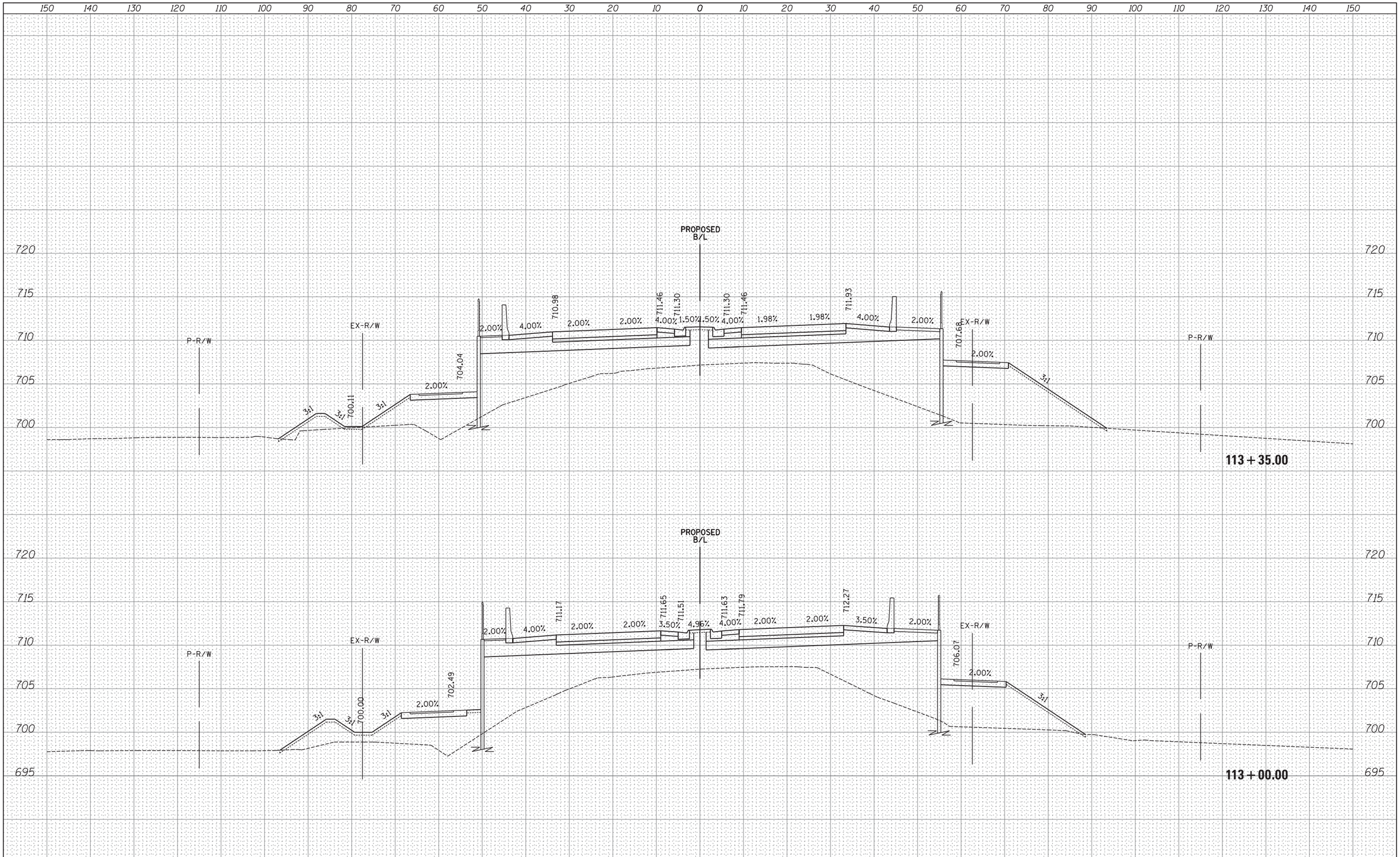
$MODELNAME$	PLOT DATE = 06/25/18	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED CROSS SECTIONS
IL ROUTE 47

SCALE: 1" = 10' | SHEET 53 OF 202 SHEETS | STA. 112+00.00 TO STA. 112+45.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
47				
		CONTRACT NO.		
		ILLINOIS FED. AID PROJECT		



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

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

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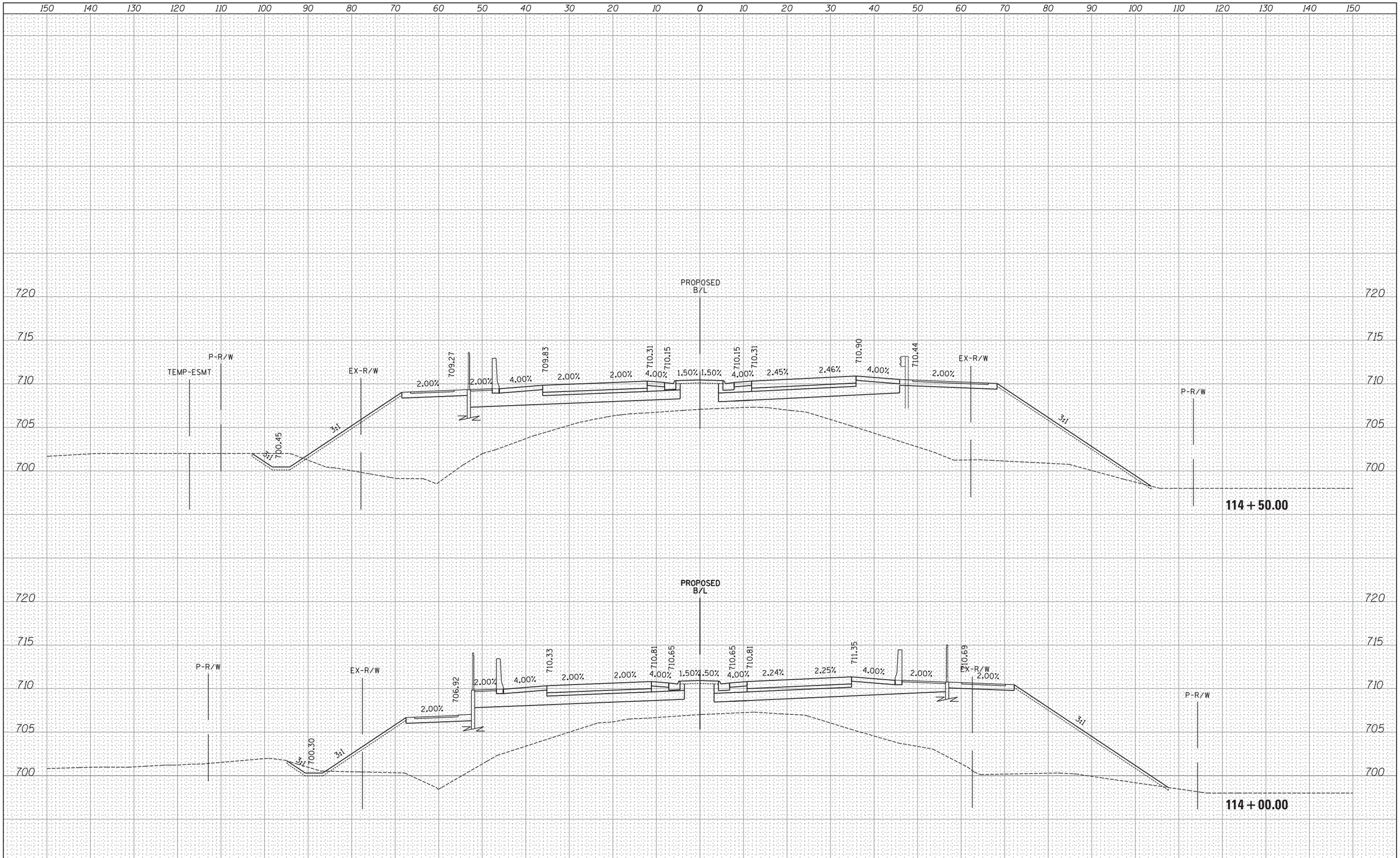
$MODELNAME$	PLOT DATE = 06/25/18	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED CROSS SECTIONS
IL ROUTE 47

SCALE: 1" = 10' | SHEET 54 OF 202 SHEETS | STA. 113+00.00 TO STA. 113+35.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
47				
		CONTRACT NO.		
	ILLINOIS FED. AID PROJECT			



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$MODELNAME$	PLOT DATE = 06/25/18	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED CROSS SECTIONS
IL ROUTE 47

SCALE: 1" = 10' | SHEET 55 OF 202 SHEETS | STA. 114+00.00 TO STA. 114+50.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
47				

CONTRACT NO.

ILLINOIS FED. AID PROJECT

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

ORIGINAL SURVEY	BY	DATE
SURVEYED		
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NOTE BOOK		
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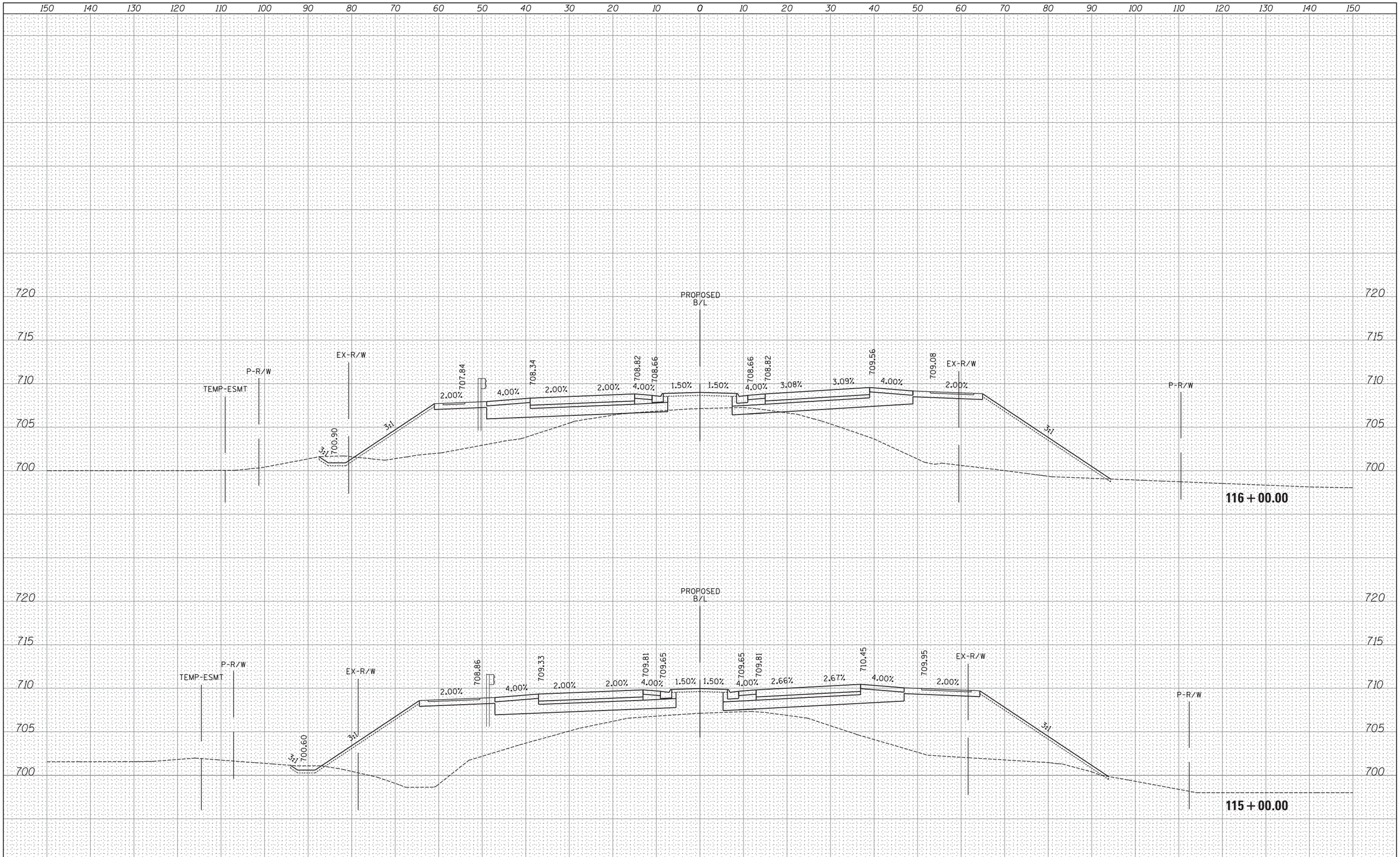

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	PLOT SCALE = 10.0000 ' / in.	CHECKED -	REVISED -
$MODELNAME$	PLOT DATE = 06/25/18	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED CROSS SECTIONS
IL ROUTE 47

SCALE: 1" = 10' | SHEET 56 OF 202 SHEETS | STA. 115+00.00 TO STA. 116+00.00

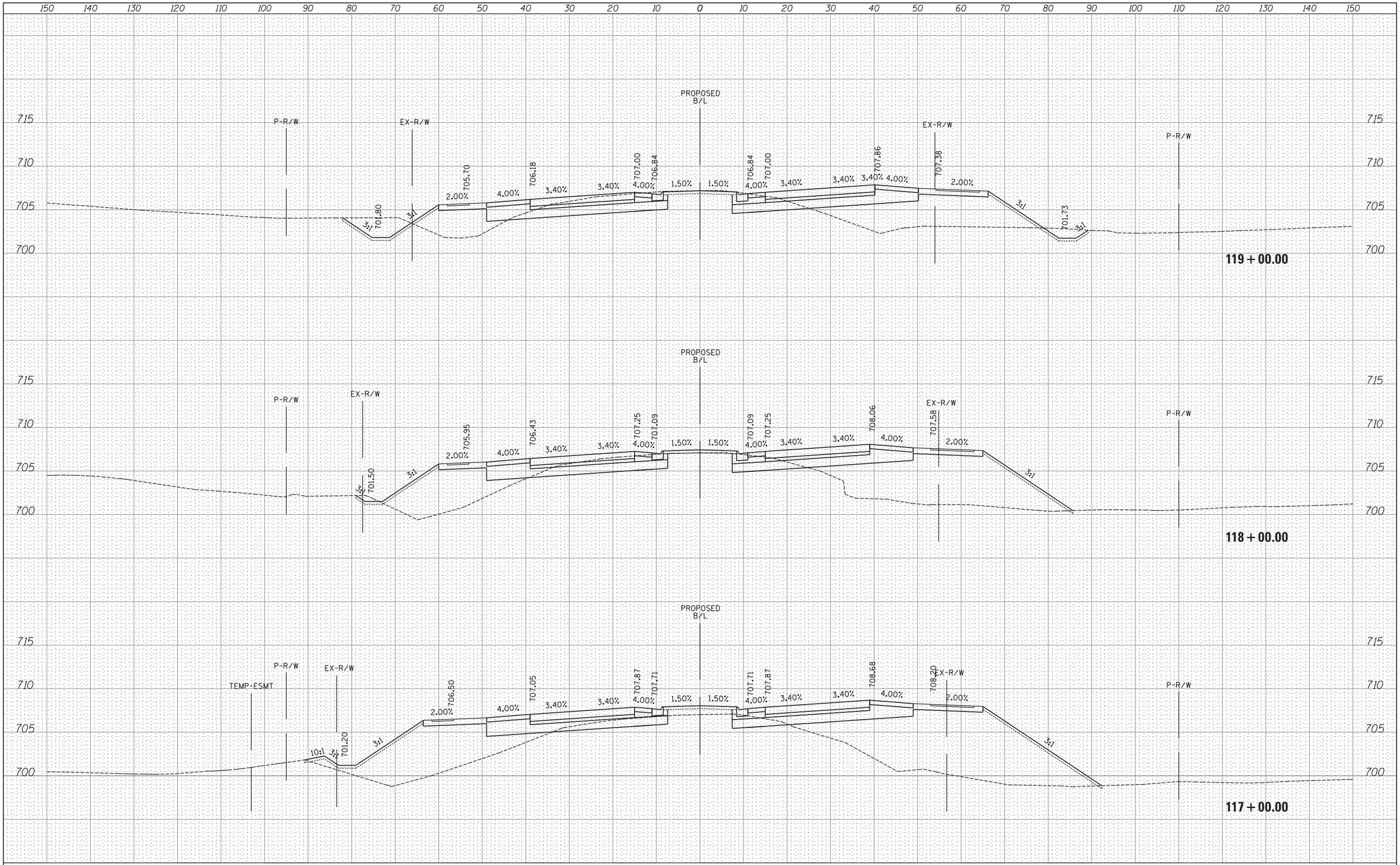
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
47				

CONTRACT NO.

ILLINOIS FED. AID PROJECT

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

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



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	PLOT SCALE = 10.0000 ' / in.	CHECKED -	REVISED -
$MODELNAME$	PLOT DATE = 06/25/18	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED CROSS SECTIONS
IL ROUTE 47

SCALE: 1" = 10' | SHEET 57 OF 202 SHEETS | STA. 117+00.00 TO STA. 119+00.00

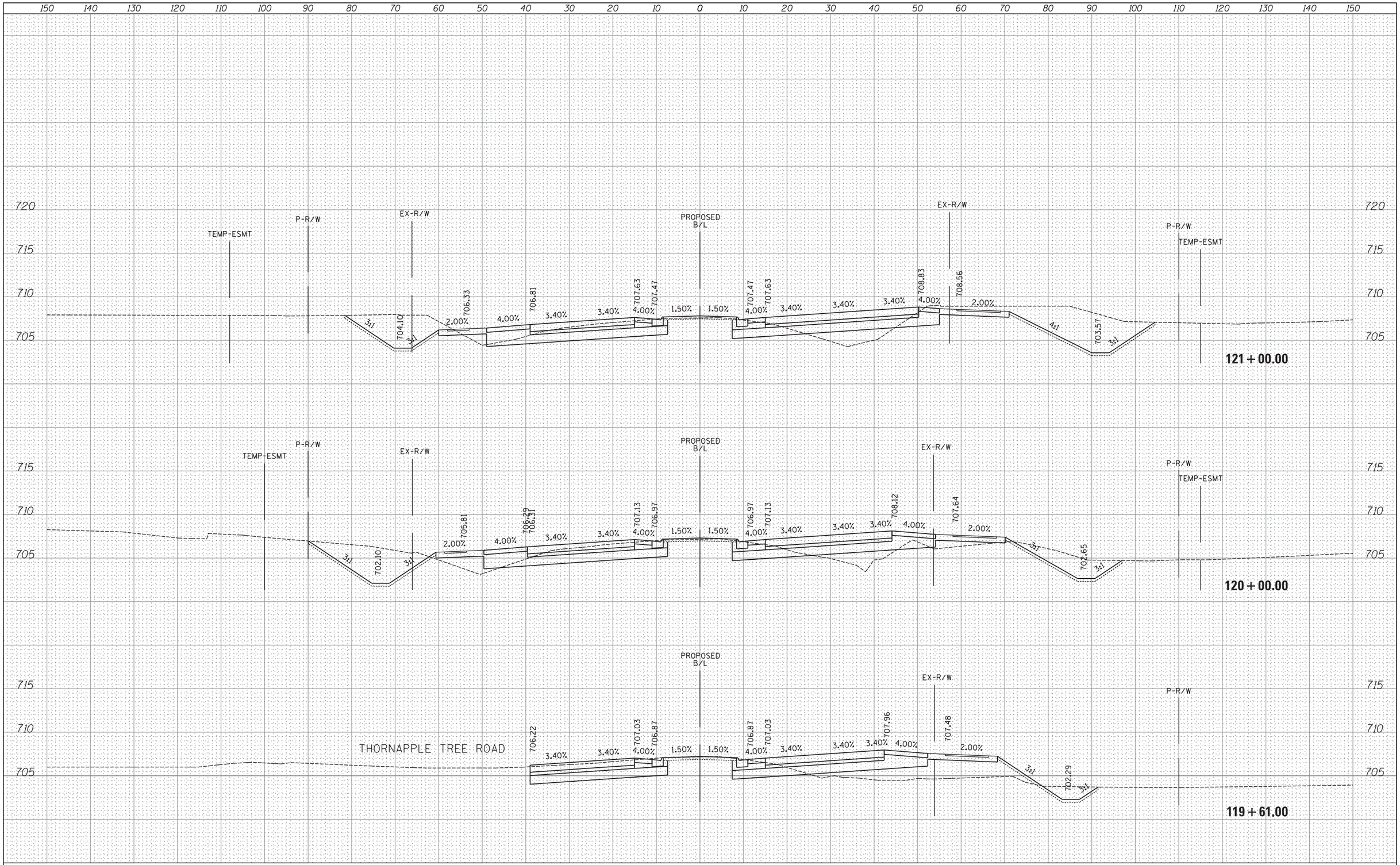
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
47				

CONTRACT NO.

ILLINOIS FED. AID PROJECT

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

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



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$MODELNAME$	PLOT DATE = 06/25/18	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED CROSS SECTIONS
IL ROUTE 47

SCALE: 1" = 10' | SHEET 58 OF 202 SHEETS | STA. 119+61.00 TO STA. 121+00.00

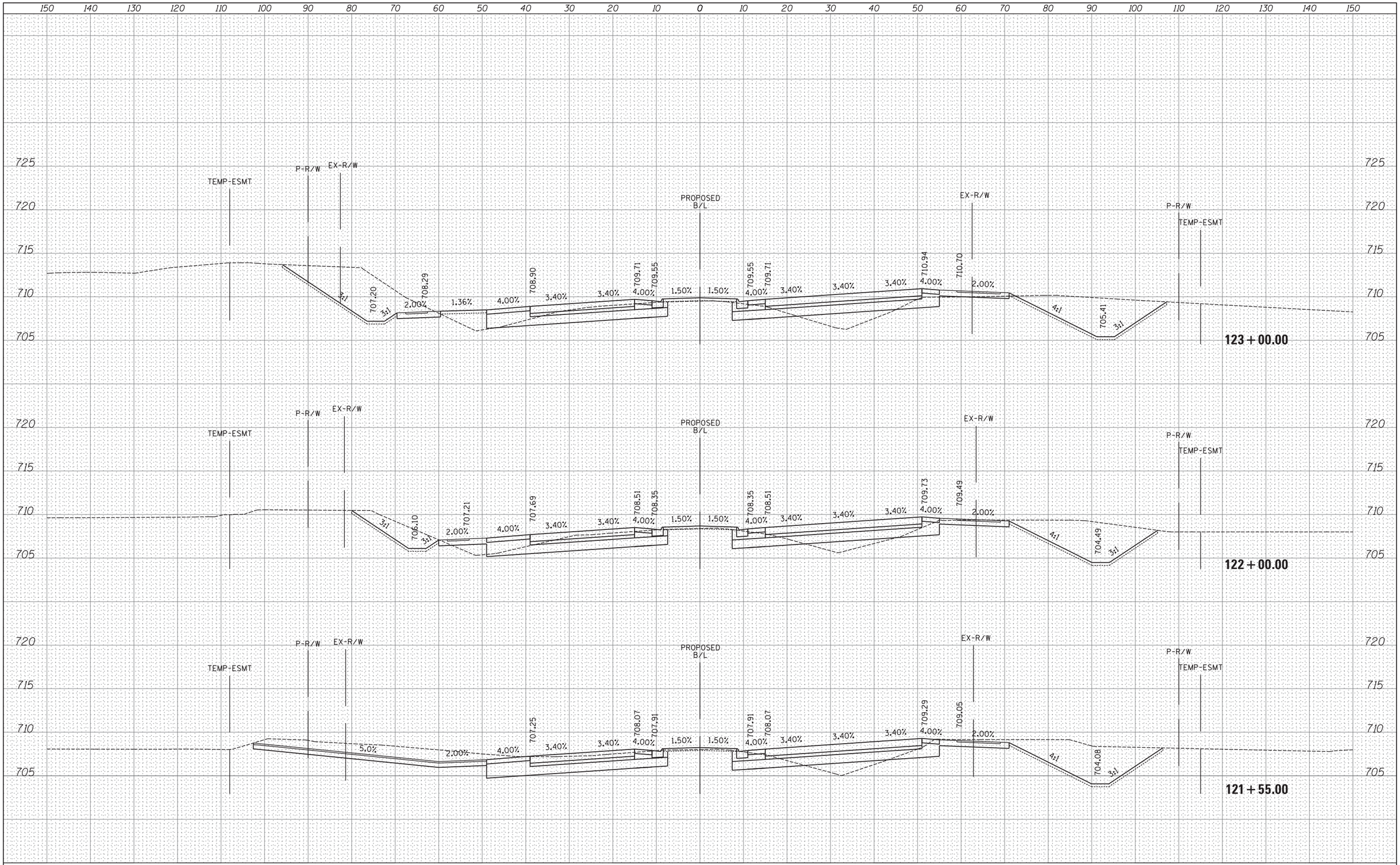
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
47				

CONTRACT NO.

ILLINOIS FED. AID PROJECT

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

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



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$MODELNAME$	PLOT DATE = 06/25/18	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED CROSS SECTIONS
IL ROUTE 47

SCALE: 1" = 10' | SHEET 59 OF 202 SHEETS | STA. 121+55.00 TO STA. 123+00.00

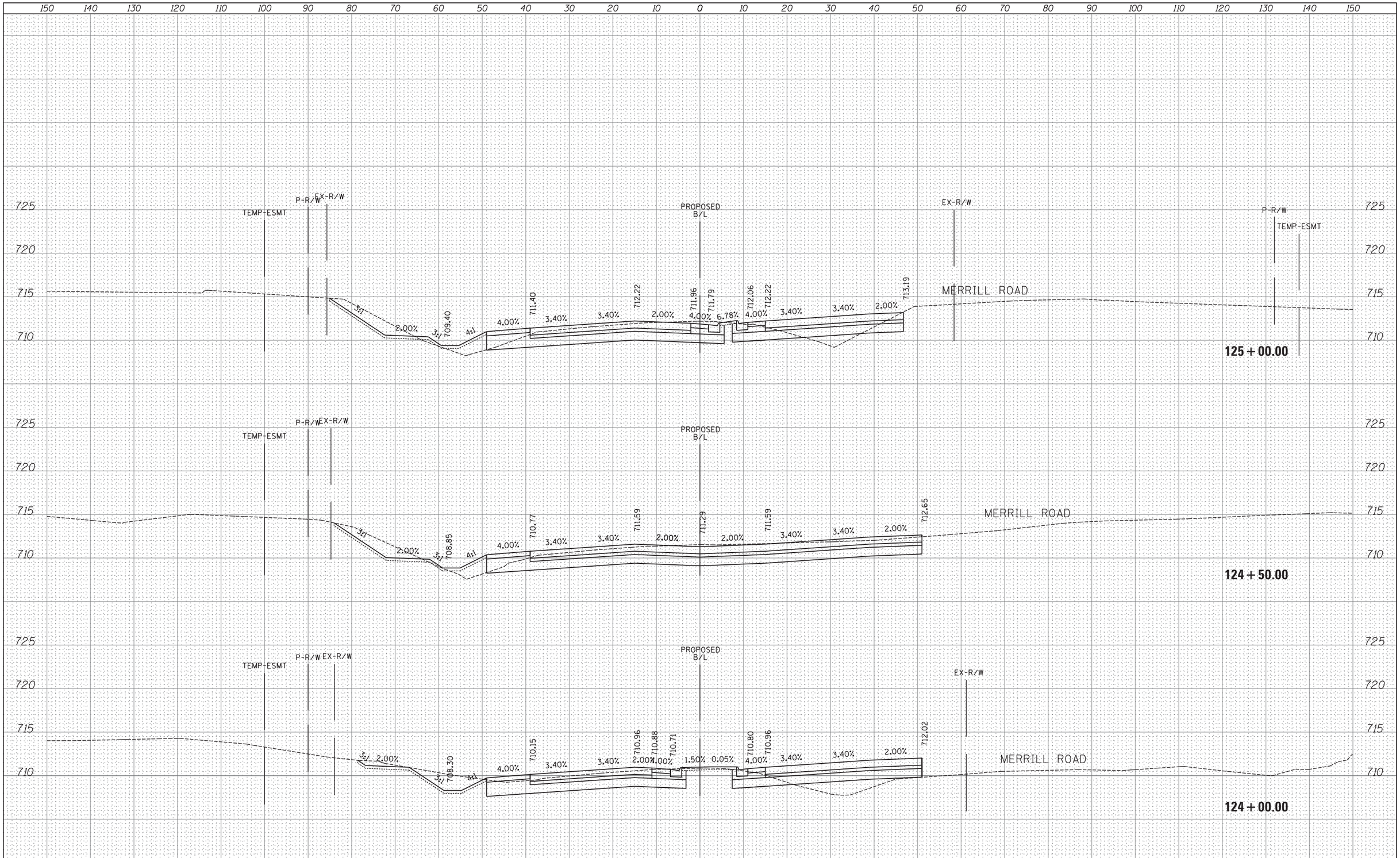
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
47				

CONTRACT NO.

ILLINOIS FED. AID PROJECT

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

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



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$MODELNAME$	PLOT DATE = 06/25/18	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED CROSS SECTIONS
IL ROUTE 47

SCALE: 1" = 10' | SHEET 60 OF 202 SHEETS | STA. 124+00.00 TO STA. 125+00.00

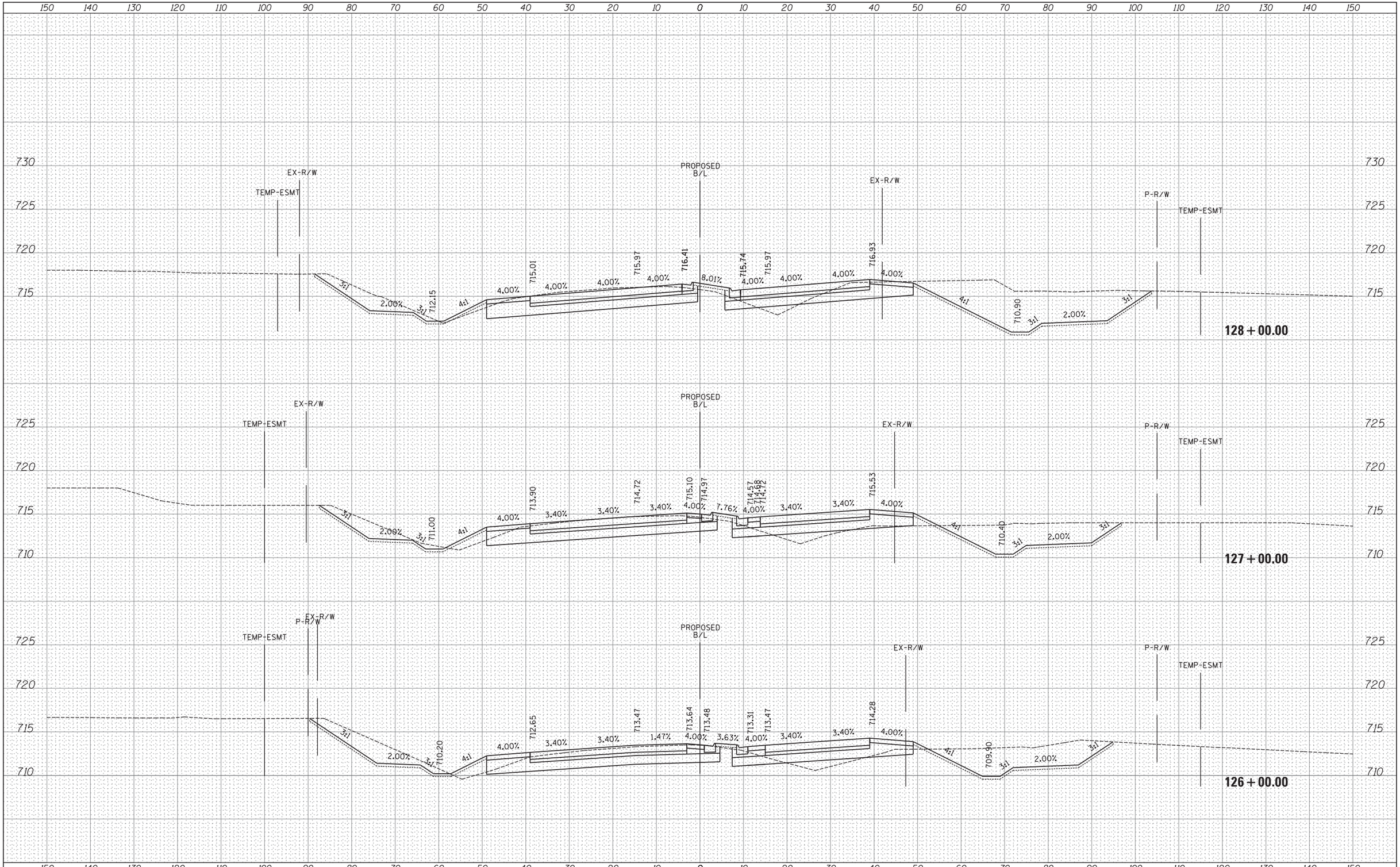
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
47				

CONTRACT NO.

ILLINOIS FED. AID PROJECT

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

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



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$MODELNAME$	PLOT DATE = 06/25/18	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED CROSS SECTIONS
IL ROUTE 47

SCALE: 1" = 10' | SHEET 61 OF 202 SHEETS | STA. 126+00.00 TO STA. 128+00.00

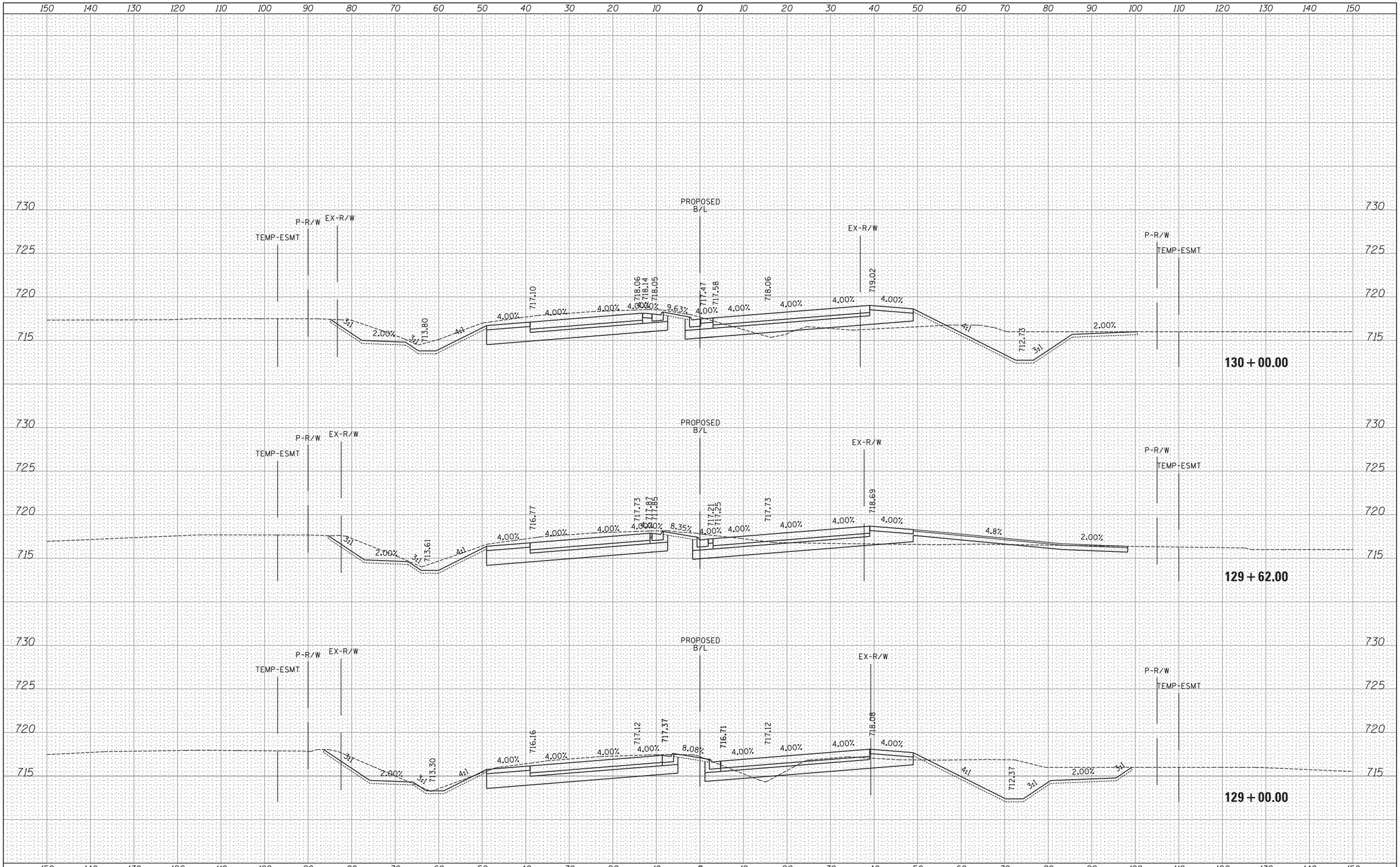
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
47				

CONTRACT NO.

ILLINOIS FED. AID PROJECT

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

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



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$MODELNAME$	PLOT DATE = 06/25/18	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED CROSS SECTIONS
IL ROUTE 47

SCALE: 1" = 10' | SHEET 62 OF 202 SHEETS | STA. 129+00.00 TO STA. 130+00.00

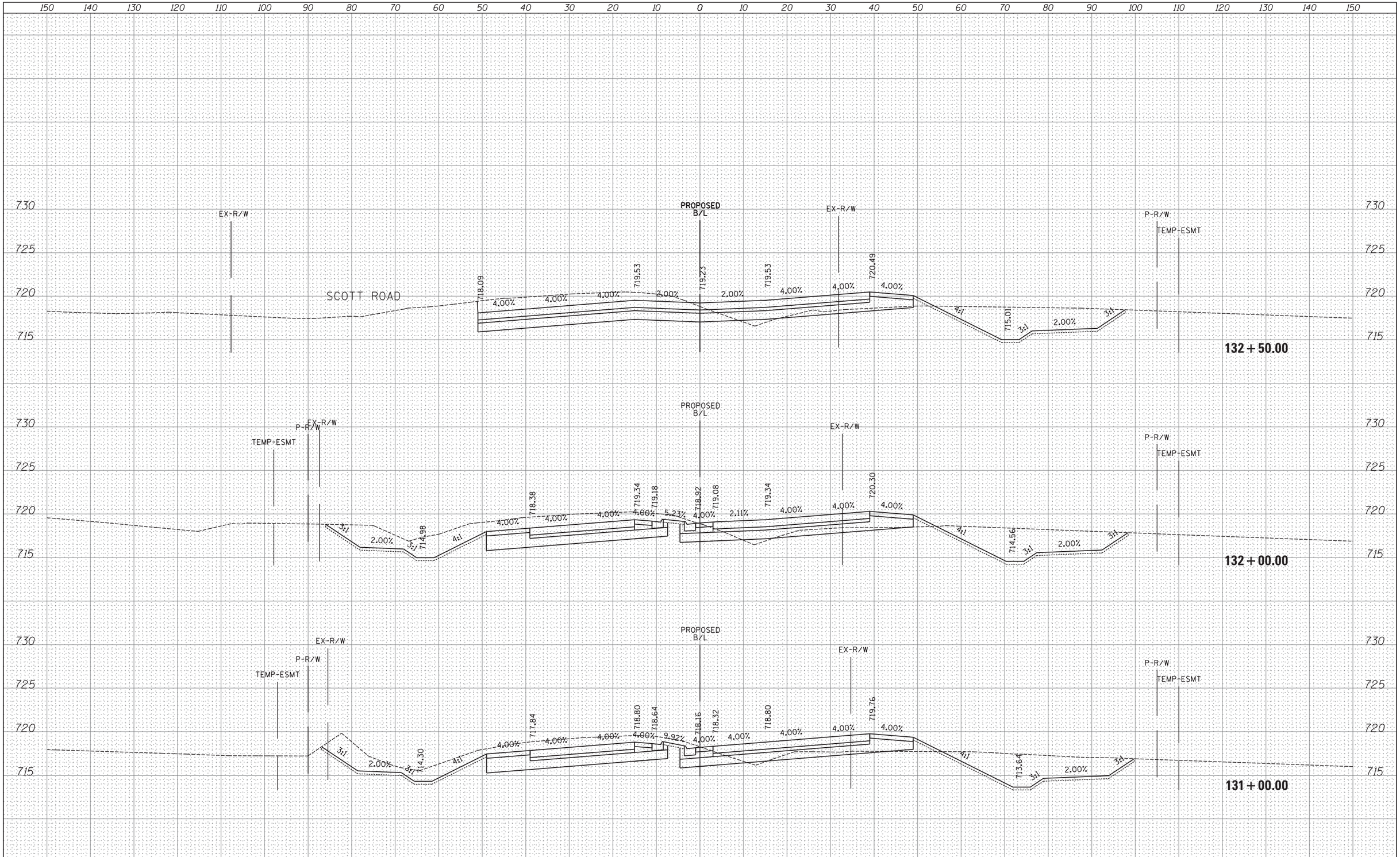
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
47				

CONTRACT NO.

ILLINOIS FED. AID PROJECT

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

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



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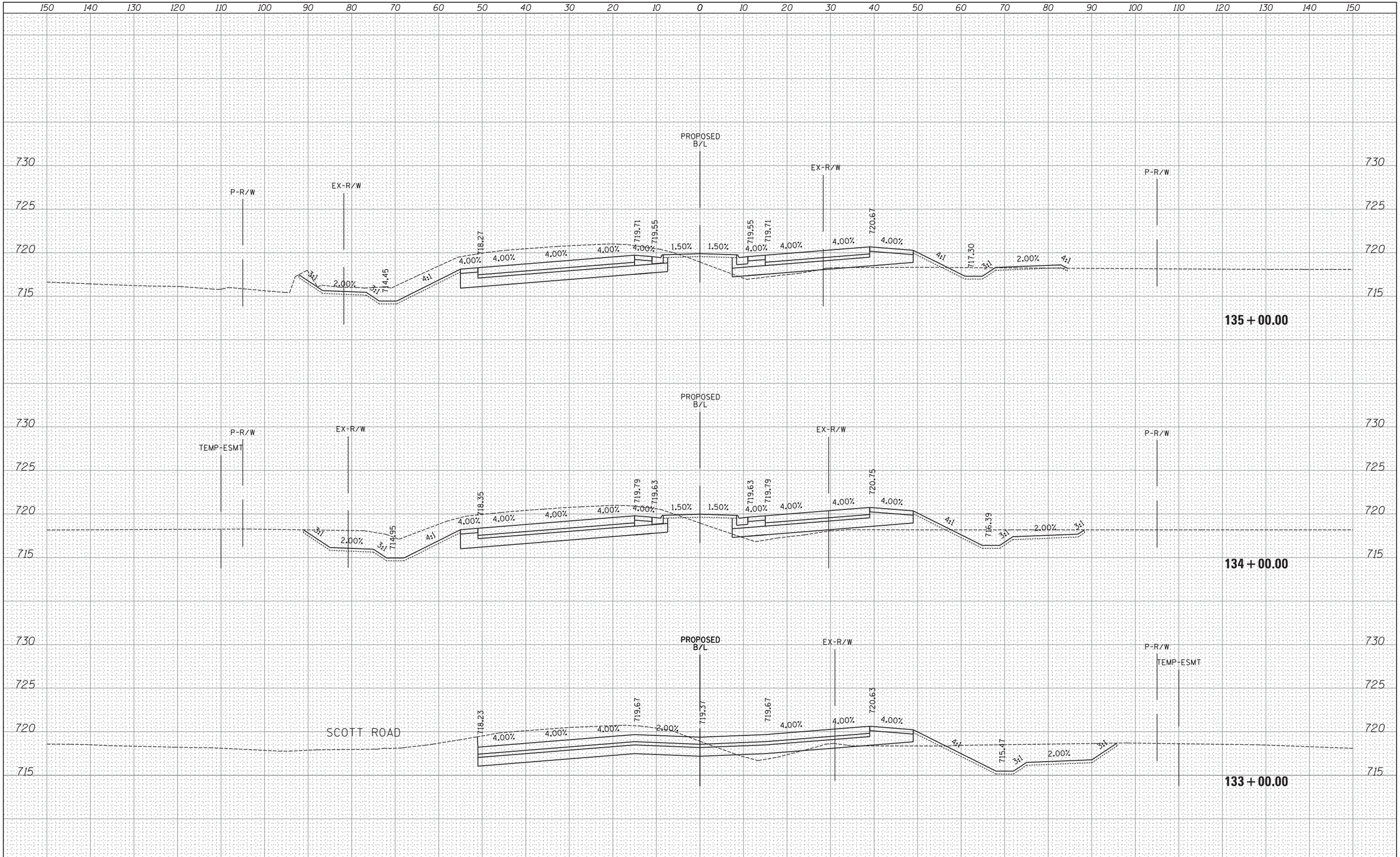
	PLOT SCALE = 10.0000 ' / in.	CHECKED -	REVISED -					CONTRACT NO.		
$MODELNAME$	PLOT DATE = 06/25/18	DATE -	REVISED -		SCALE: 1" = 10' SHEET 63 OF 202 SHEETS STA. 131+00.00 TO STA. 132+50.00		ILLINOIS	FED. AID PROJECT		

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

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



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$MODELNAME$	PLOT DATE = 06/25/18	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED CROSS SECTIONS
IL ROUTE 47

SCALE: 1" = 10' | SHEET 64 OF 202 SHEETS | STA. 133+00.00 TO STA. 135+00.00

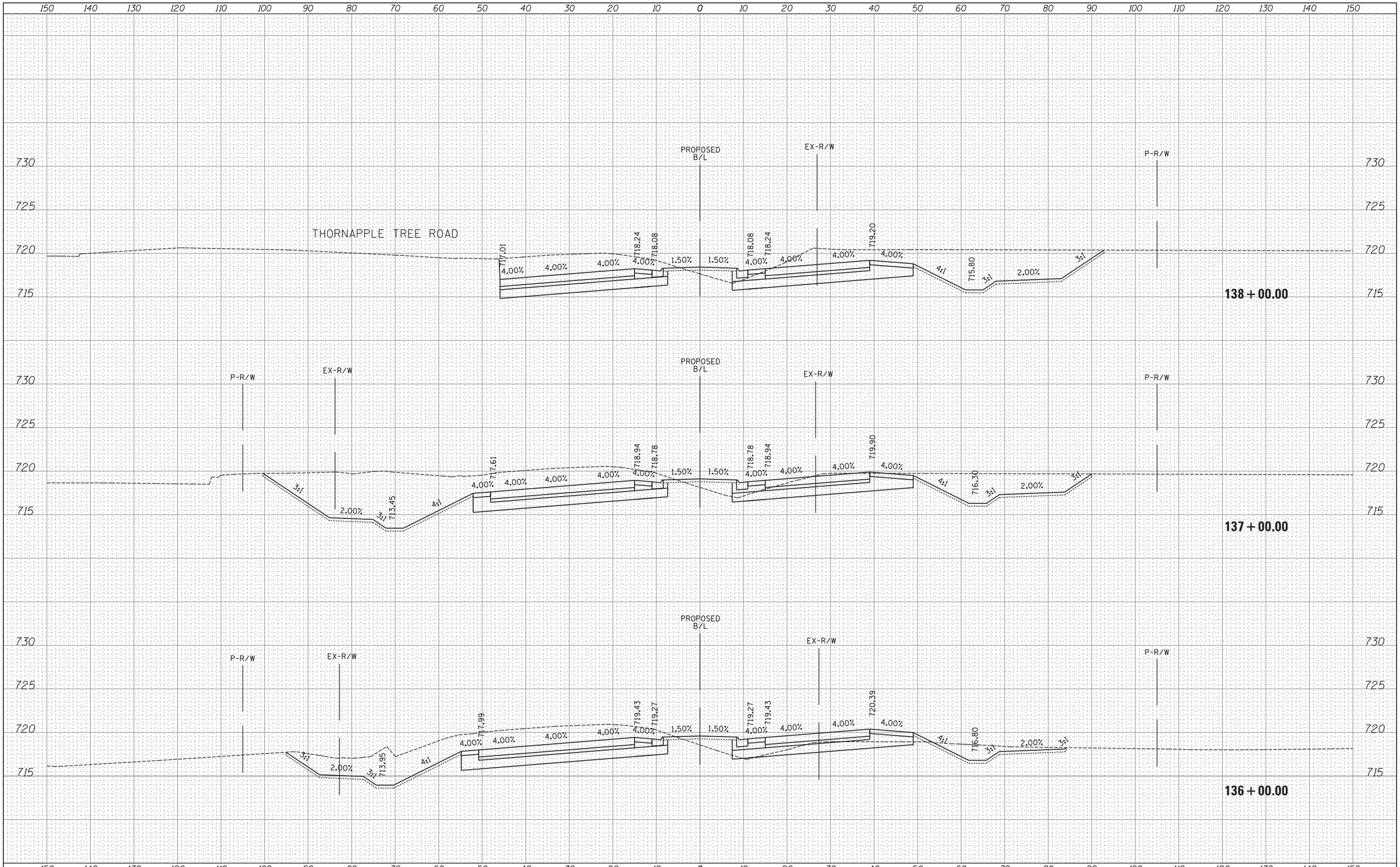
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
47				

CONTRACT NO.

ILLINOIS FED. AID PROJECT

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

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



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

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

FILE NAME =	USER NAME = _USER_	DESIGNED -	REVISED -
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$MODELNAME$	PLOT DATE = 06/25/18	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

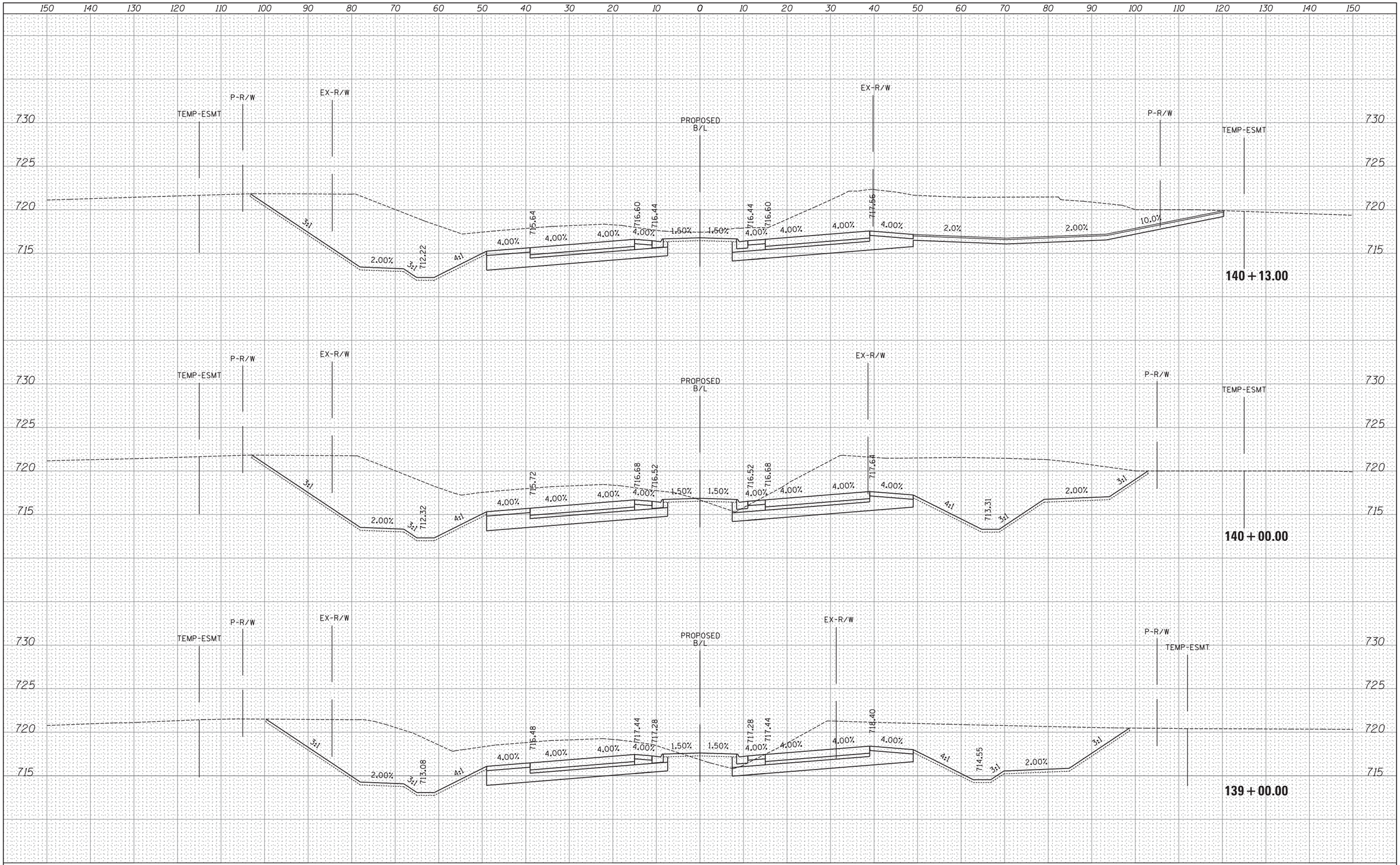
PROPOSED CROSS SECTIONS
IL ROUTE 47

SCALE: 1" = 10' | SHEET 65 OF 202 SHEETS | STA. 136+00.00 TO STA. 138+00.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
47				

CONTRACT NO.

ILLINOIS FED. AID PROJECT



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

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

FILE NAME =	USER NAME = _USER_	DESIGNED -	REVISED -
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$MODELNAME$	PLOT DATE = 06/25/18	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

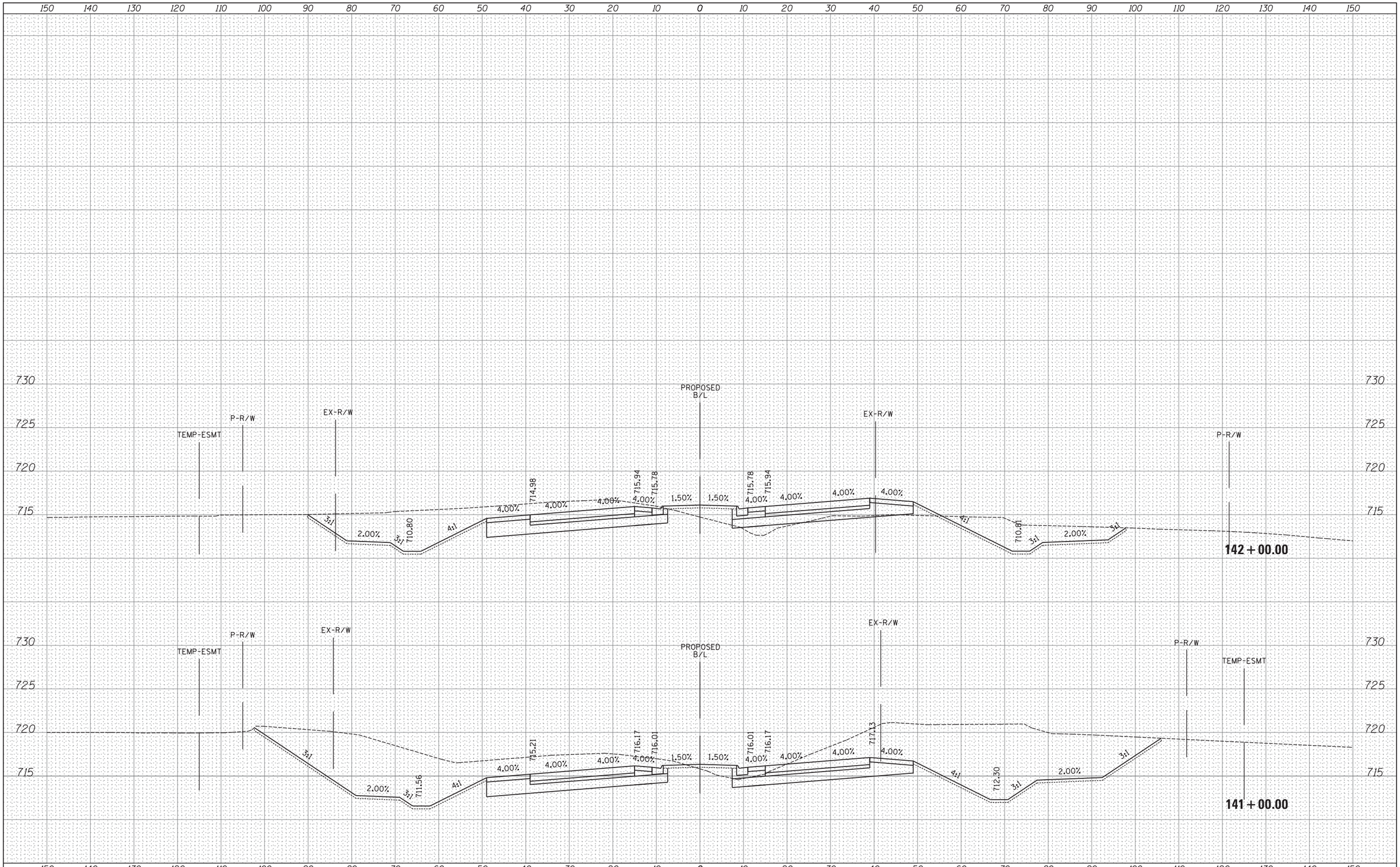
PROPOSED CROSS SECTIONS
IL ROUTE 47

SCALE: 1" = 10' | SHEET 66 OF 202 SHEETS | STA. 139+00.00 TO STA. 140+13.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
47				

CONTRACT NO.

ILLINOIS FED. AID PROJECT



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$MODELNAME$	PLOT DATE = 06/25/18	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED CROSS SECTIONS
IL ROUTE 47

SCALE: 1" = 10' | SHEET 67 OF 202 SHEETS | STA. 141+00.00 TO STA. 142+00.00

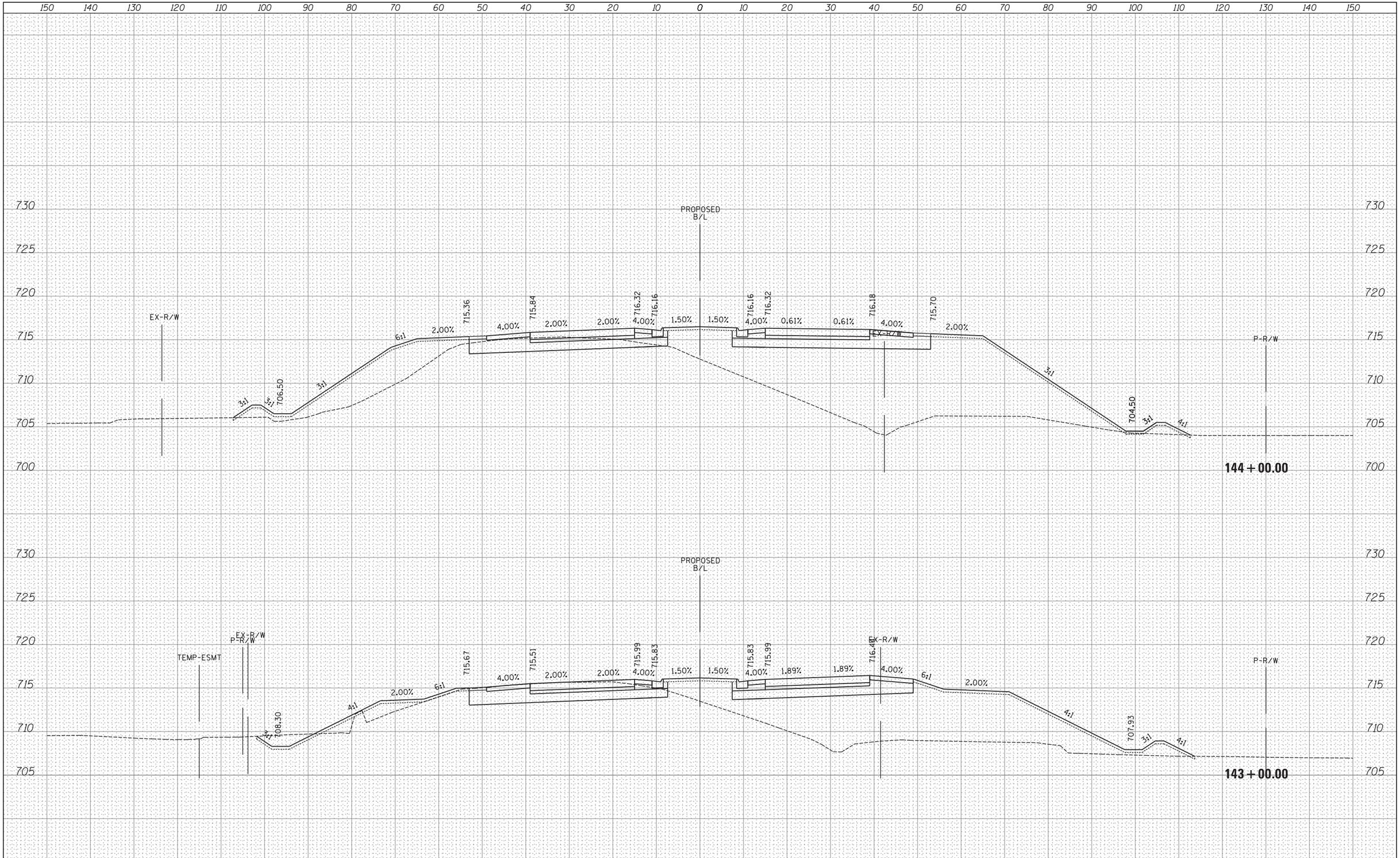
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
47				

CONTRACT NO.

ILLINOIS FED. AID PROJECT

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

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



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$MODELNAME$	PLOT DATE = 06/25/18	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

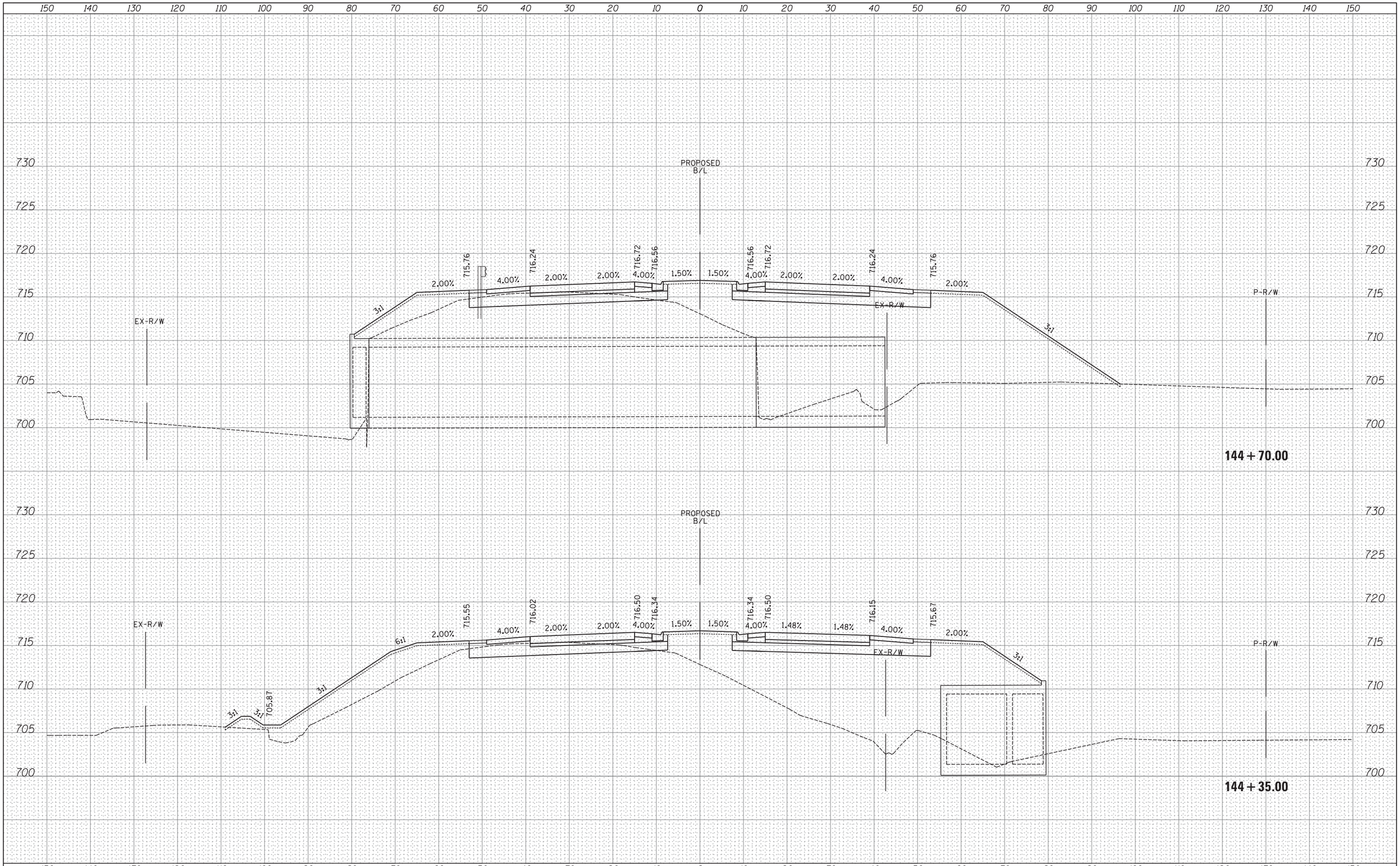
PROPOSED CROSS SECTIONS
IL ROUTE 47

SCALE: 1" = 10' | SHEET 68 OF 202 SHEETS | STA. 143+00.00 TO STA. 144+00.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
47				
		CONTRACT NO.		
	ILLINOIS	FED. AID PROJECT		

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

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



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

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

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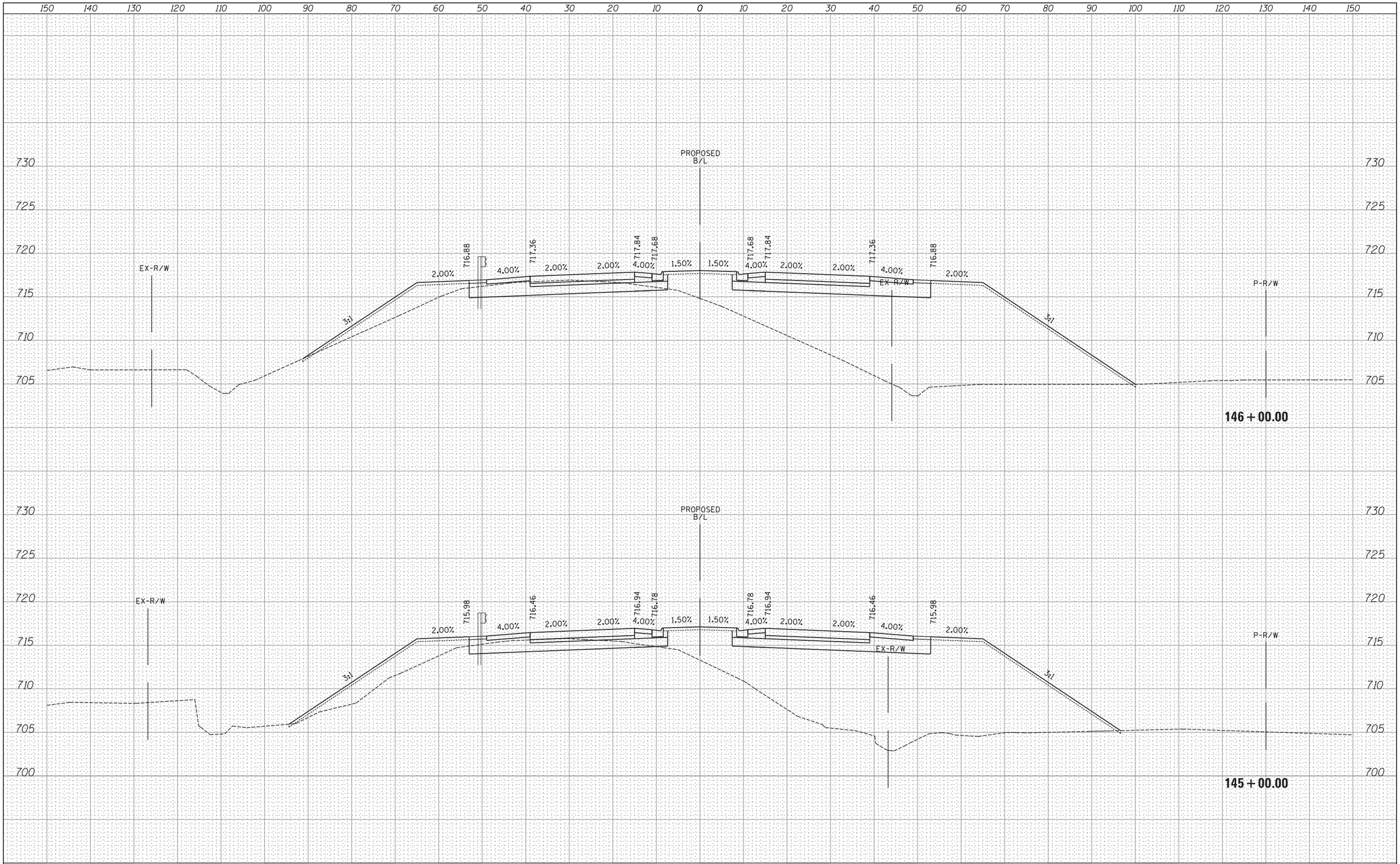
	PLOT SCALE = 10.0000 ' / in.	CHECKED -	REVISED -
$MODELNAME$	PLOT DATE = 06/25/18	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED CROSS SECTIONS
IL ROUTE 47

SCALE: 1" = 10' | SHEET 69 OF 202 SHEETS | STA. 144+35.00 TO STA. 144+70.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
47				
		CONTRACT NO.		
		ILLINOIS FED. AID PROJECT		



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

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

FILE NAME =	USER NAME = _USER_	DESIGNED -	REVISED -
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$MODELNAME$	PLOT DATE = 06/25/18	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

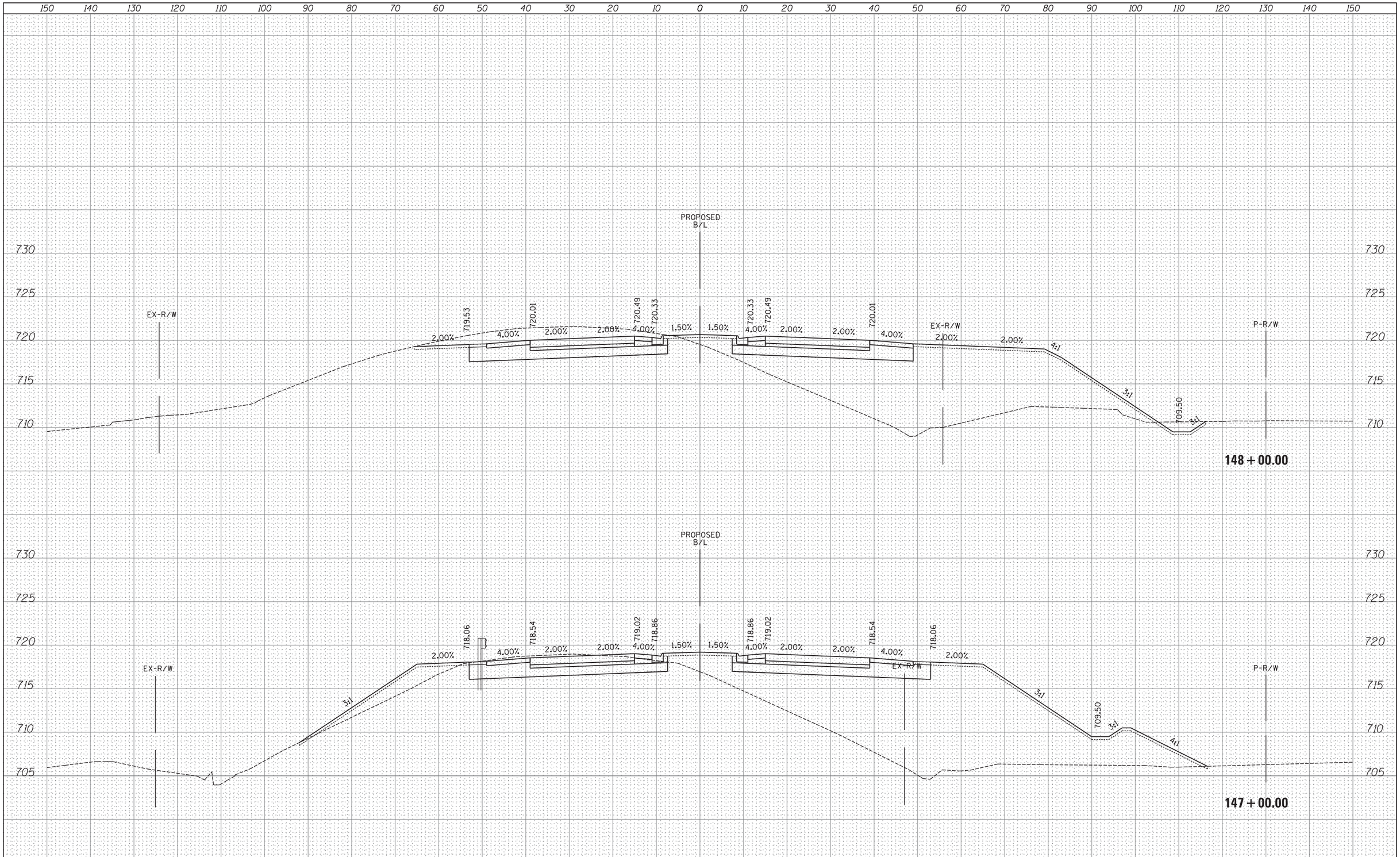
PROPOSED CROSS SECTIONS
IL ROUTE 47

SCALE: 1" = 10' | SHEET 70 OF 202 SHEETS | STA. 145+00.00 TO STA. 146+00.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
47				

CONTRACT NO.

ILLINOIS FED. AID PROJECT



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

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

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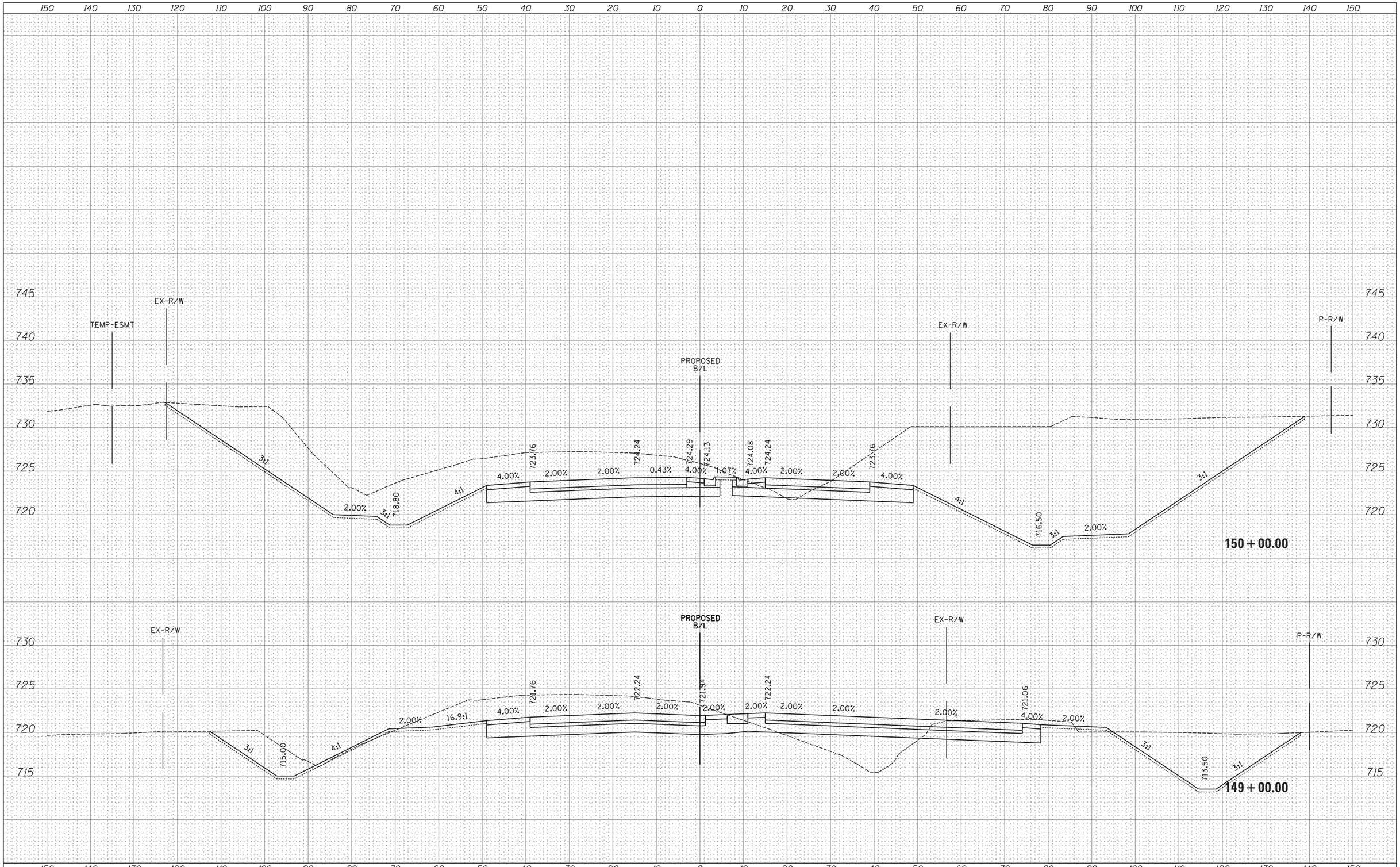
$MODELNAME$	PLOT DATE = 06/25/18	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED CROSS SECTIONS
IL ROUTE 47

SCALE: 1" = 10' | SHEET 71 OF 202 SHEETS | STA. 147+00.00 TO STA. 148+00.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
47				
		CONTRACT NO.		
	ILLINOIS FED. AID PROJECT			



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	PLOT SCALE = 10.0000 ' / in.	CHECKED -	REVISED -
$MODELNAME$	PLOT DATE = 06/25/18	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED CROSS SECTIONS
IL ROUTE 47

SCALE: 1" = 10' | SHEET 72 OF 202 SHEETS | STA. 149+00.00 TO STA. 150+00.00

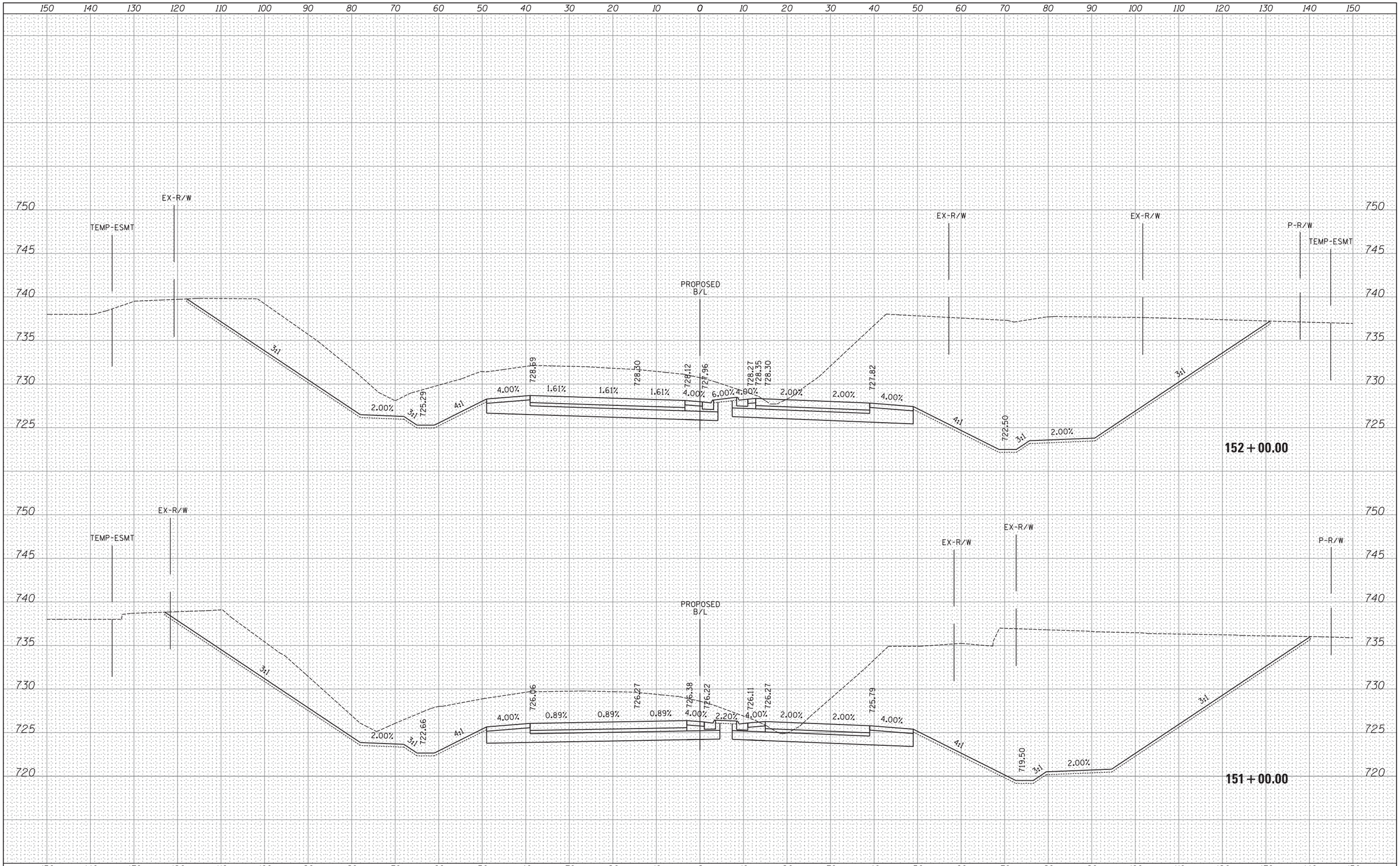
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
47				

CONTRACT NO.

ILLINOIS FED. AID PROJECT

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

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



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$MODELNAME$	PLOT DATE = 06/25/18	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED CROSS SECTIONS
IL ROUTE 47

SCALE: 1" = 10' | SHEET 73 OF 202 SHEETS | STA. 151+00.00 TO STA. 152+00.00

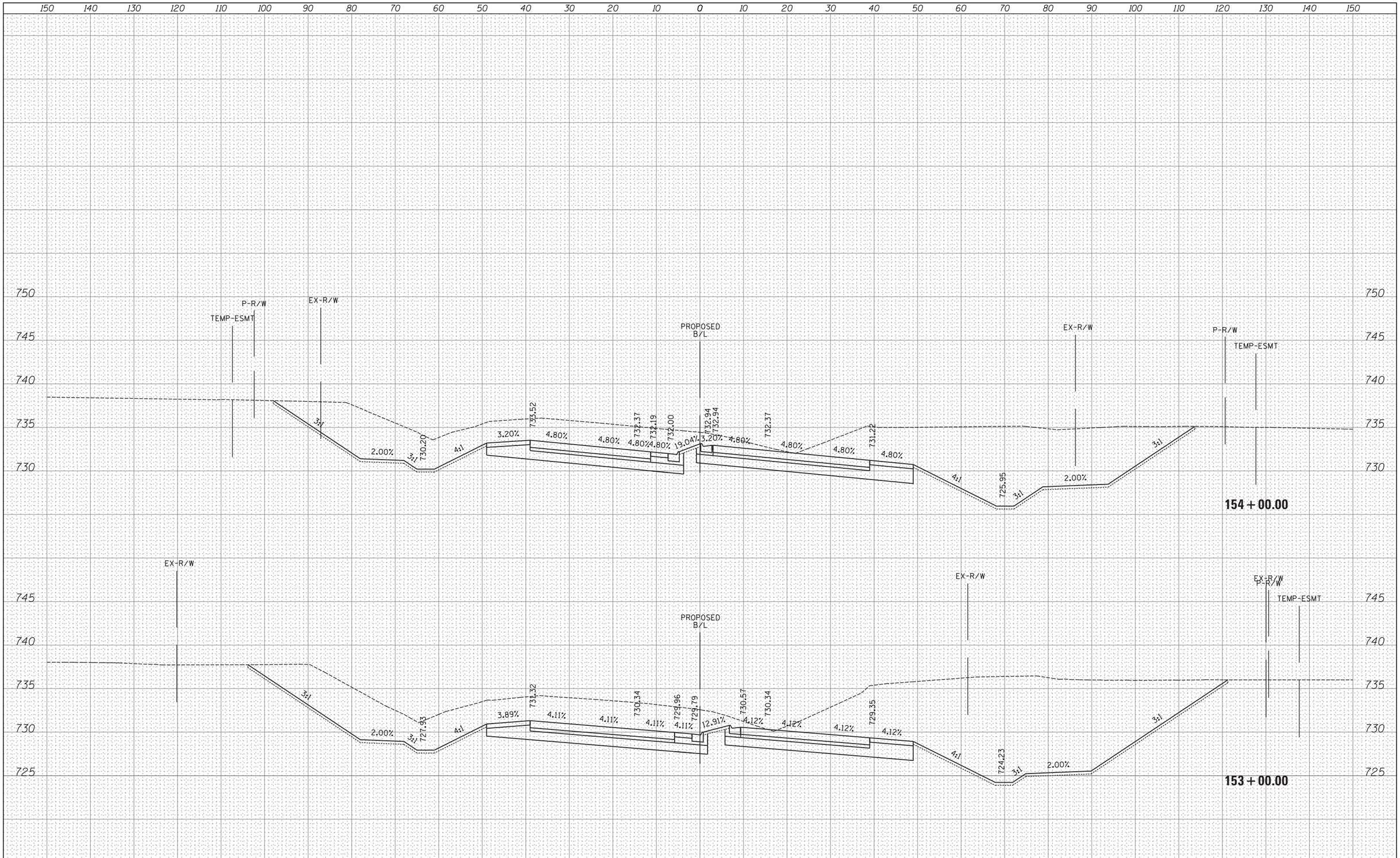
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
47				

CONTRACT NO.

ILLINOIS FED. AID PROJECT

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

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



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

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

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$MODELNAME$	PLOT DATE = 06/25/18	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

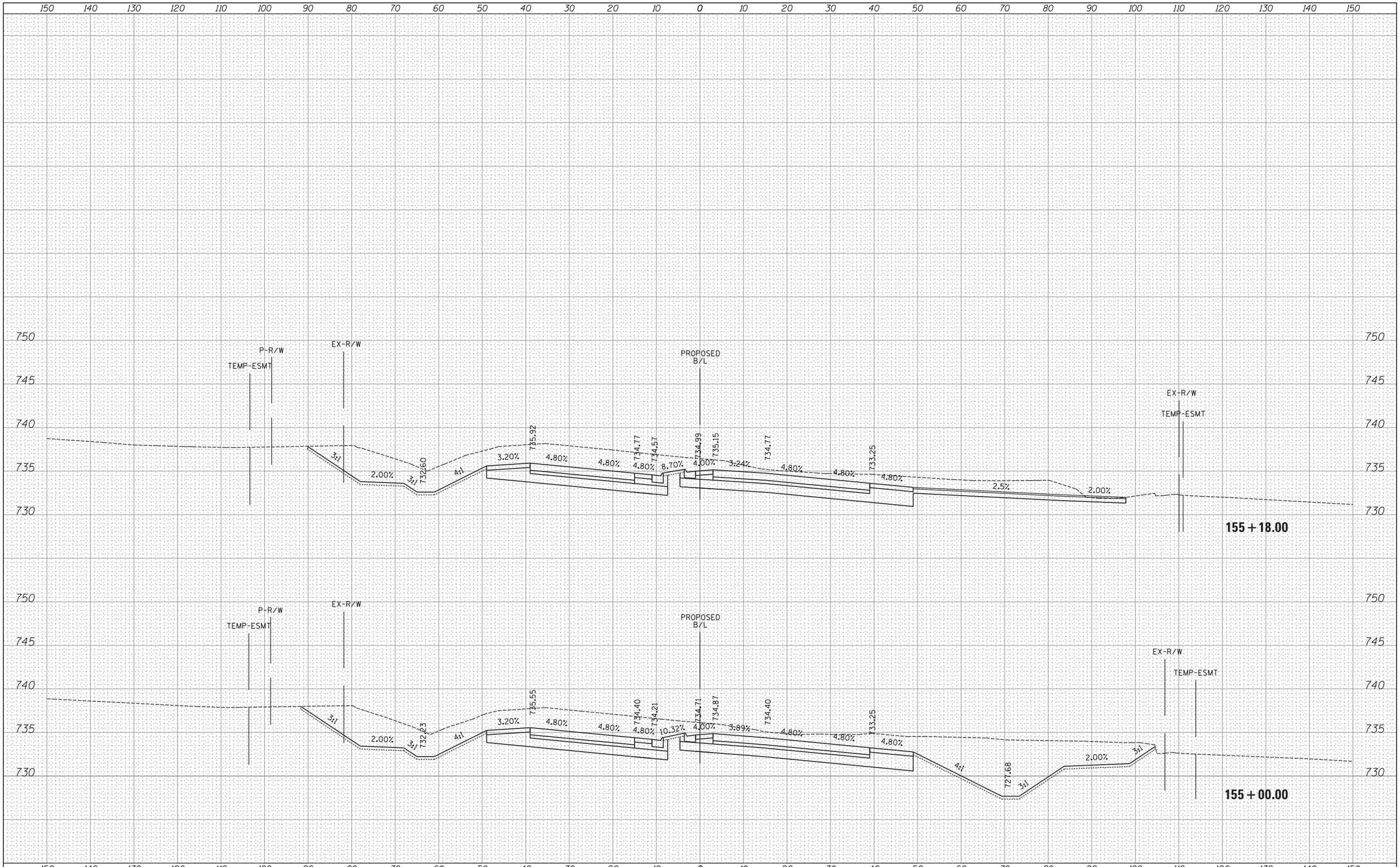
PROPOSED CROSS SECTIONS
IL ROUTE 47

SCALE: 1" = 10' | SHEET 74 OF 202 SHEETS | STA. 153+00.00 TO STA. 154+00.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
47				

CONTRACT NO.

ILLINOIS FED. AID PROJECT



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

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

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$MODELNAME$

USER NAME = _USER_
PLOT SCALE = 10.0000 ' / in.
PLOT DATE = 06/25/18

DESIGNED -
DRAWN -
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DATE -

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REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

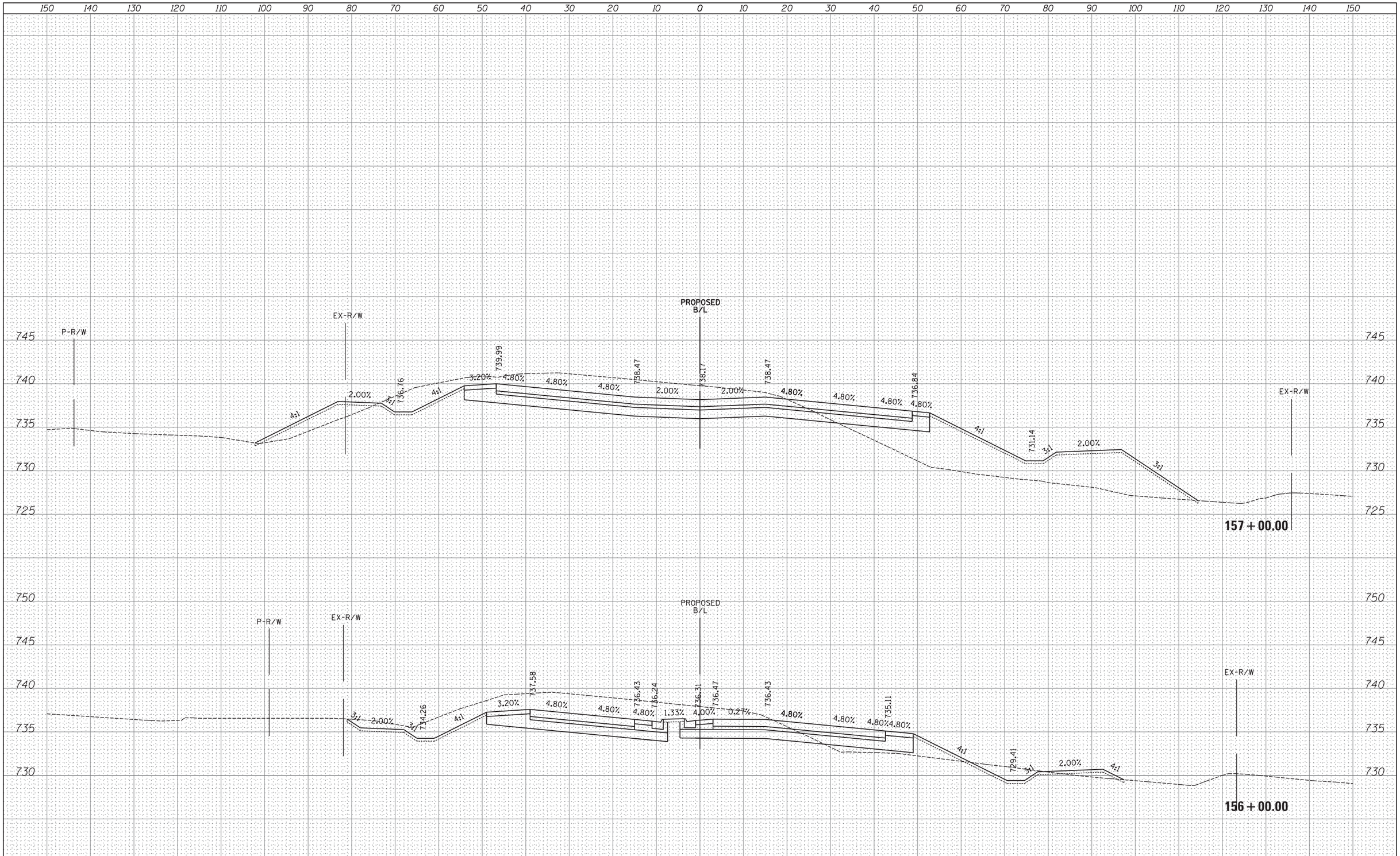
PROPOSED CROSS SECTIONS
IL ROUTE 47

SCALE: 1" = 10' | SHEET 75 OF 202 SHEETS | STA. 155+00.00 TO STA. 155+18.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
47				

CONTRACT NO.

ILLINOIS FED. AID PROJECT



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$MODELNAME$	PLOT DATE = 06/25/18	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED CROSS SECTIONS
IL ROUTE 47

SCALE: 1" = 10' | SHEET 76 OF 202 SHEETS | STA. 156+00.00 TO STA. 157+00.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
47				

CONTRACT NO.

ILLINOIS | FED. AID PROJECT

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

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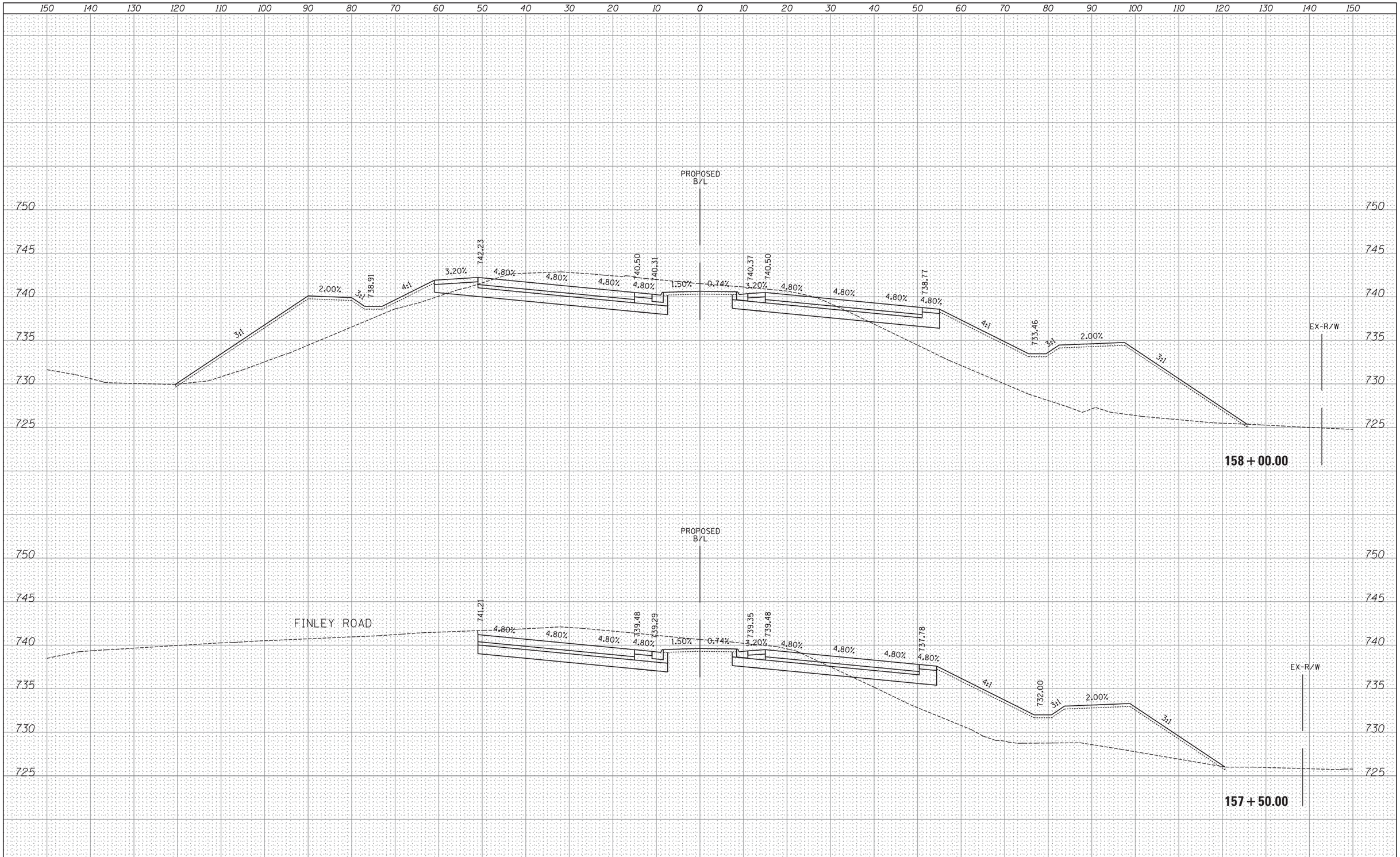

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TEMPLATE		
AREAS		
AREAS CHECKED		
NOTE BOOK NO.		

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

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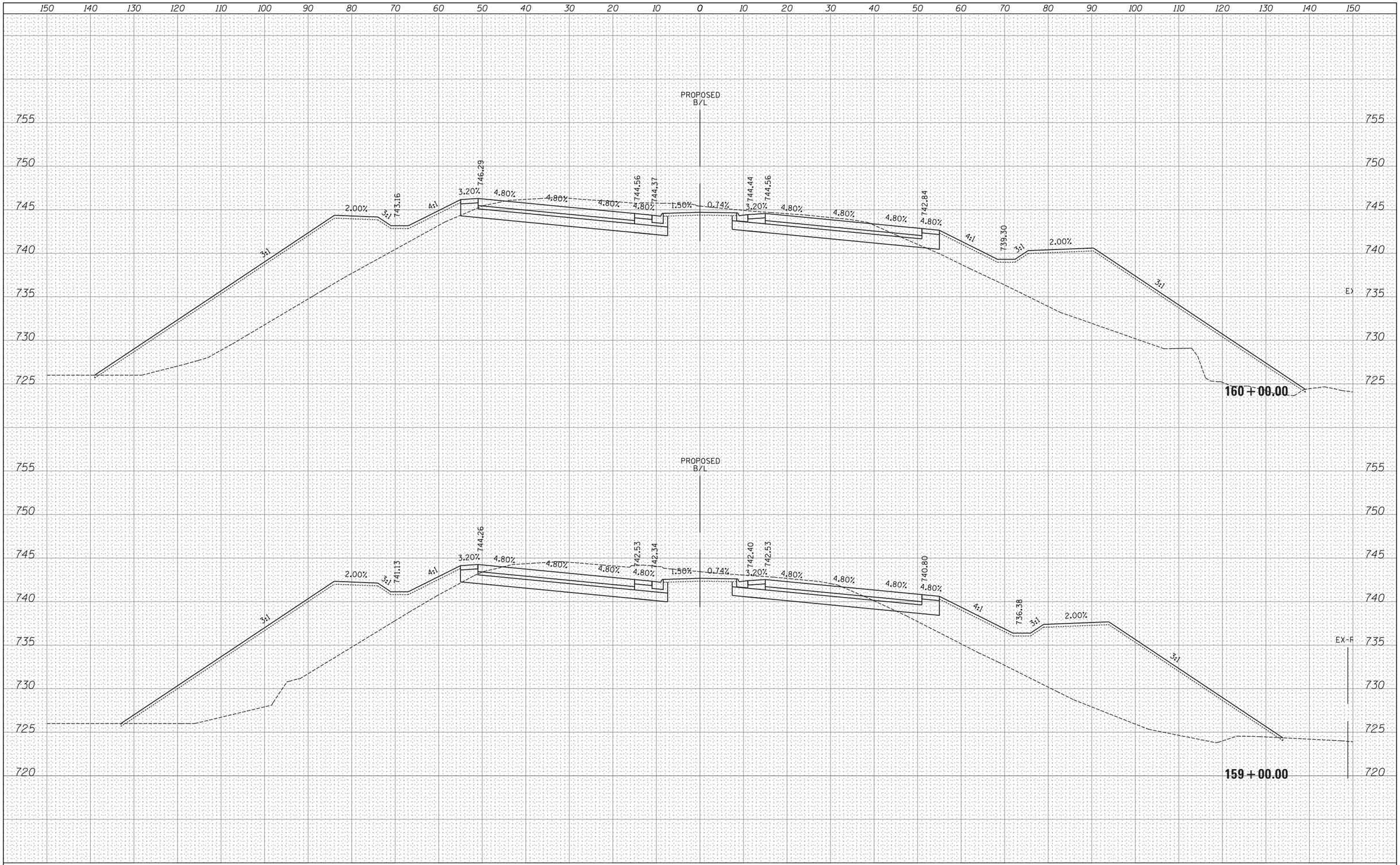
$MODELNAME$	PLOT DATE = 06/25/18	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED CROSS SECTIONS
IL ROUTE 47

SCALE: 1" = 10' | SHEET 77 OF 202 SHEETS | STA. 157+50.00 TO STA. 158+00.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
47				
		CONTRACT NO.		
		ILLINOIS FED. AID PROJECT		



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$MODELNAME$	PLOT DATE = 06/25/18	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED CROSS SECTIONS
IL ROUTE 47

SCALE: 1" = 10' | SHEET 78 OF 202 SHEETS | STA. 159+00.00 TO STA. 160+00.00

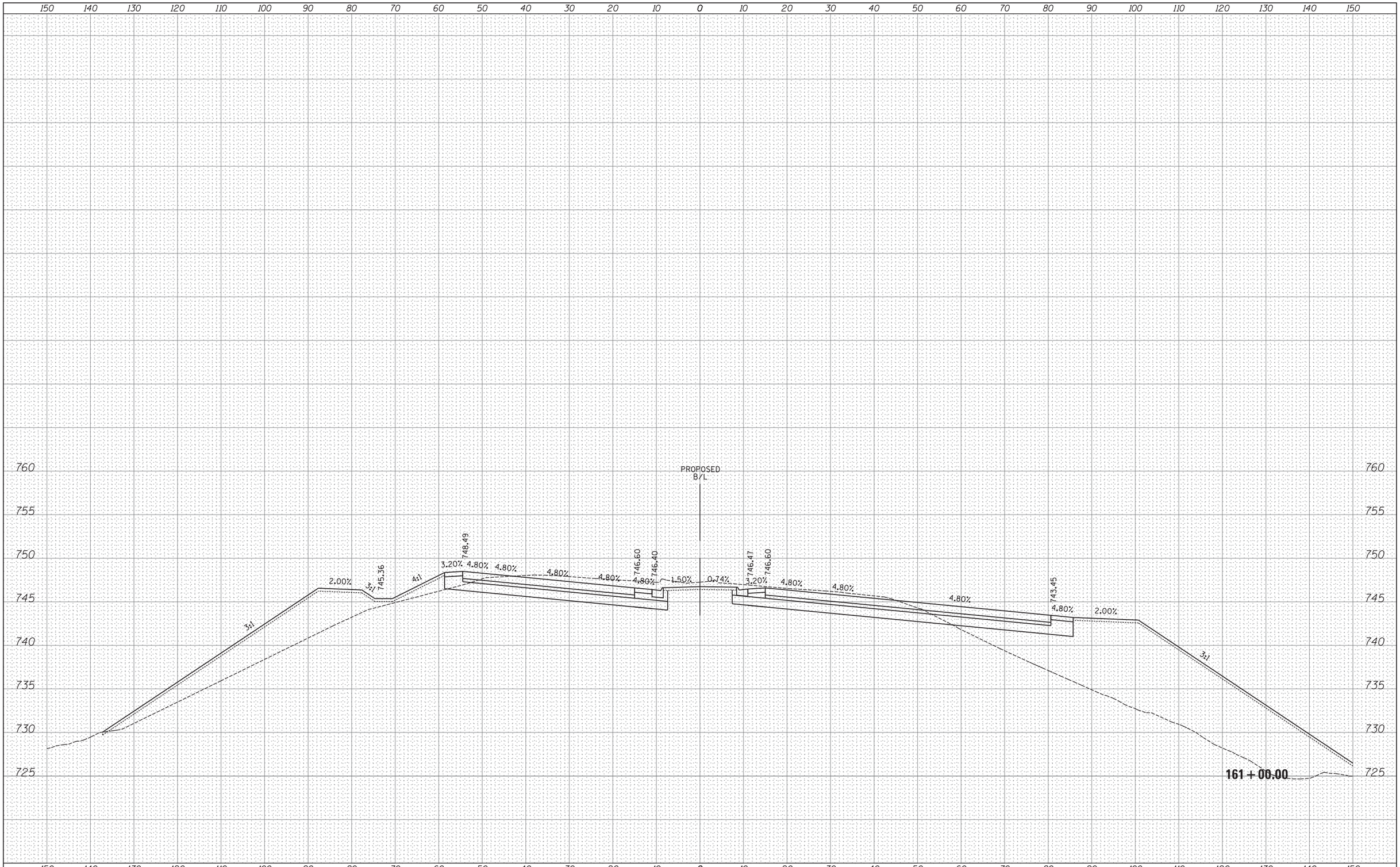
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
47				

CONTRACT NO.

ILLINOIS FED. AID PROJECT

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

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



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$MODELNAME$	PLOT DATE = 06/25/18	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED CROSS SECTIONS
IL ROUTE 47

SCALE: 1" = 10' | SHEET 79 OF 202 SHEETS | STA. 161+00.00 TO STA. 161+00.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
47				

CONTRACT NO.

ILLINOIS FED. AID PROJECT

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

ORIGINAL SURVEY	BY	DATE
SURVEYED		
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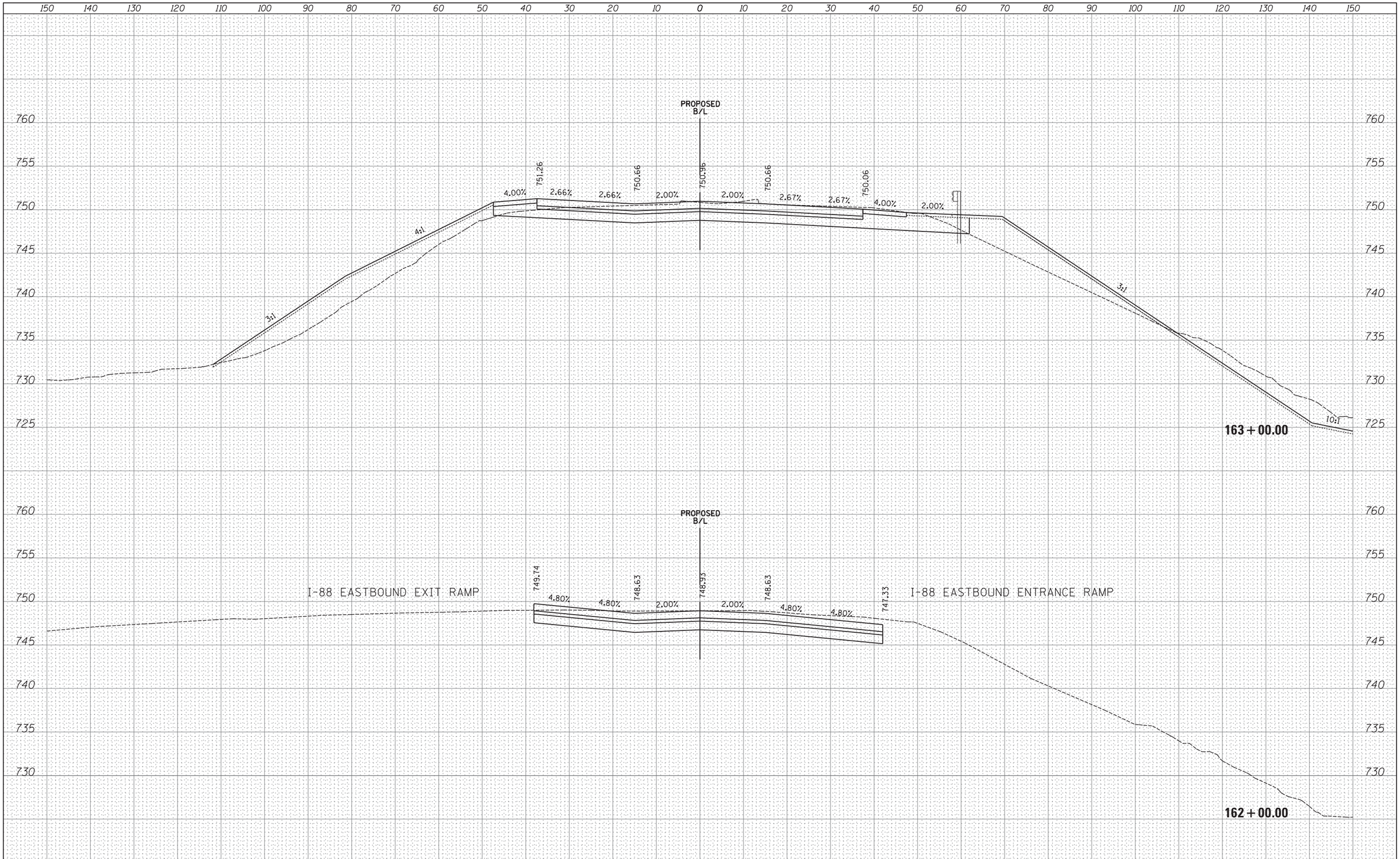
AREAS CHECKED		
NOTE BOOK NO.		



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SURVEYED		
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TEMPLATE		
AREAS		
AREAS CHECKED		
NOTE BOOK NO.		

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

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PLOT DATE = 06/25/18

DESIGNED -	REVISED -
DRAWN -	REVISED -
CHECKED -	REVISED -
DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED CROSS SECTIONS
IL ROUTE 47

SCALE: 1" = 10' | SHEET 80 OF 202 SHEETS | STA. 162+00.00 TO STA. 163+00.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
47				

CONTRACT NO.

ILLINOIS FED. AID PROJECT

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

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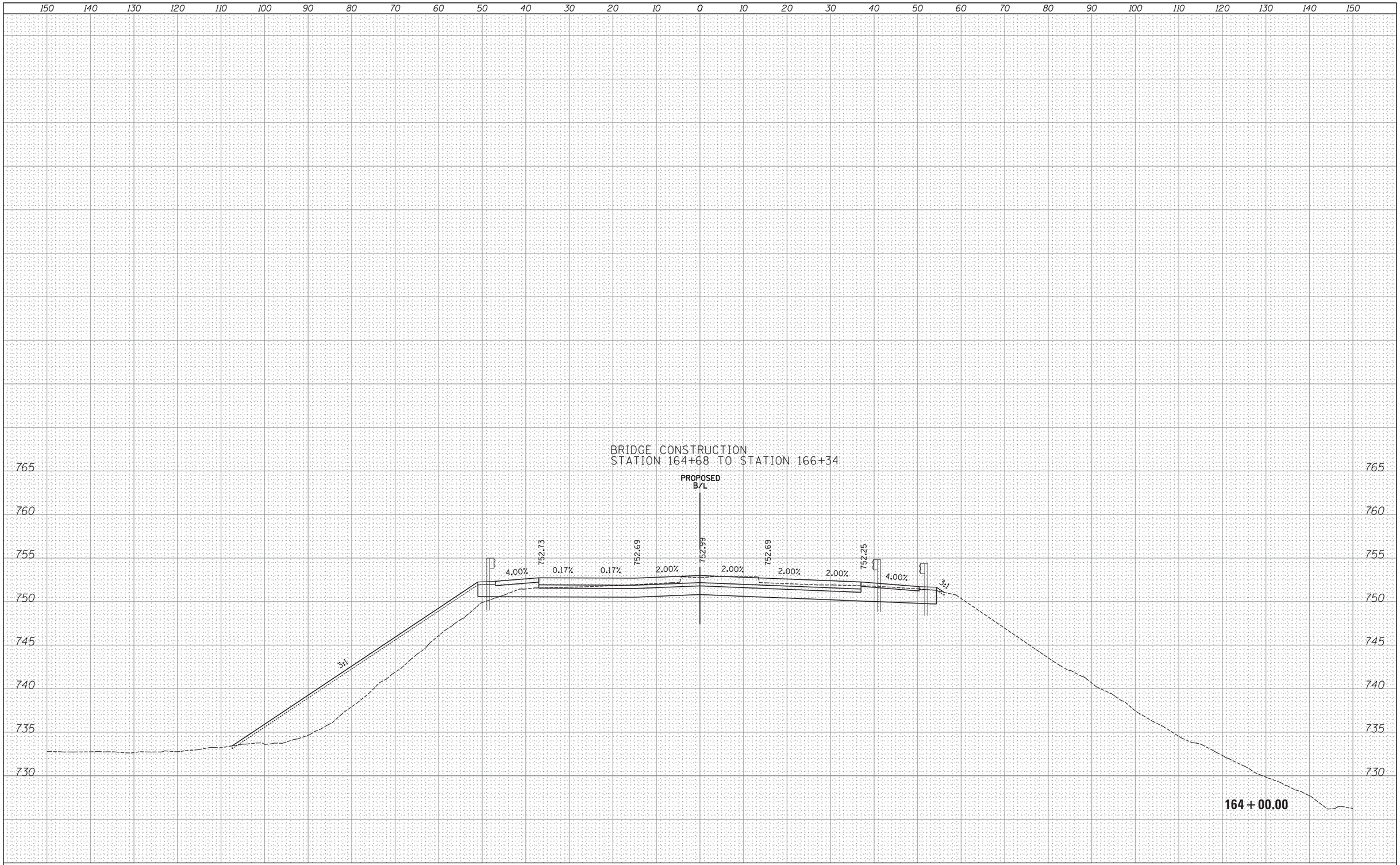
	TEMPLATE		
	AREAS		
	AREAS CHECKED		



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$MODELNAME$	PLOT DATE = 06/25/18	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

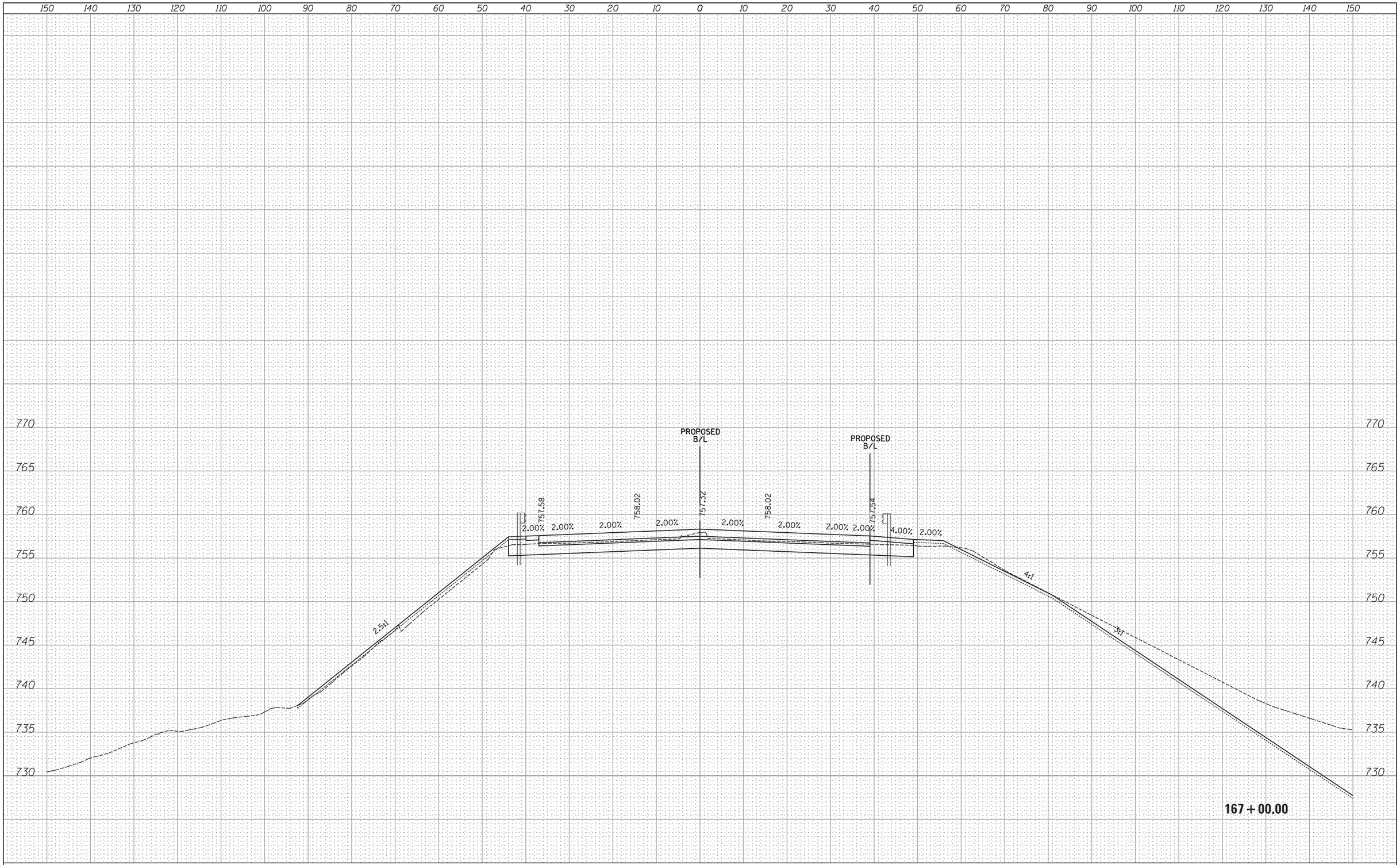
PROPOSED CROSS SECTIONS
IL ROUTE 47

SCALE: 1" = 10' | SHEET 81 OF 202 SHEETS | STA. 164+00.00 TO STA. 164+00.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
47				

CONTRACT NO.

ILLINOIS FED. AID PROJECT



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$MODELNAME$	PLOT DATE = 06/25/18	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED CROSS SECTIONS
IL ROUTE 47

SCALE: 1" = 10' | SHEET 82 OF 202 SHEETS | STA. 167+00.00 TO STA. 167+00.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
47				

CONTRACT NO.

ILLINOIS FED. AID PROJECT

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

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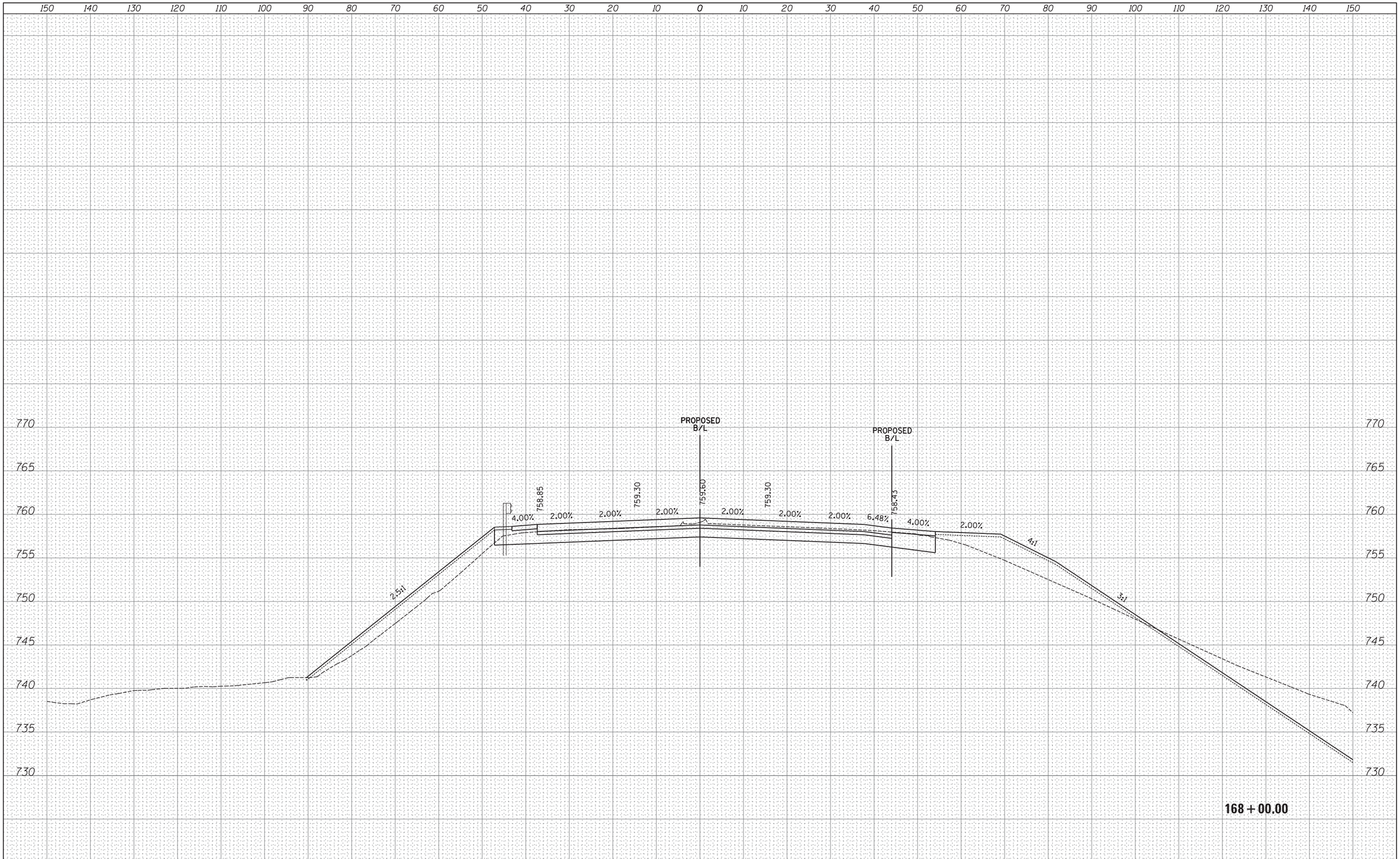
PLOTTED		
TEMPLATE		
AREAS		
AREAS CHECKED		
NOTE BOOK NO.		



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

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

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$MODELNAME$	PLOT DATE = 06/25/18	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

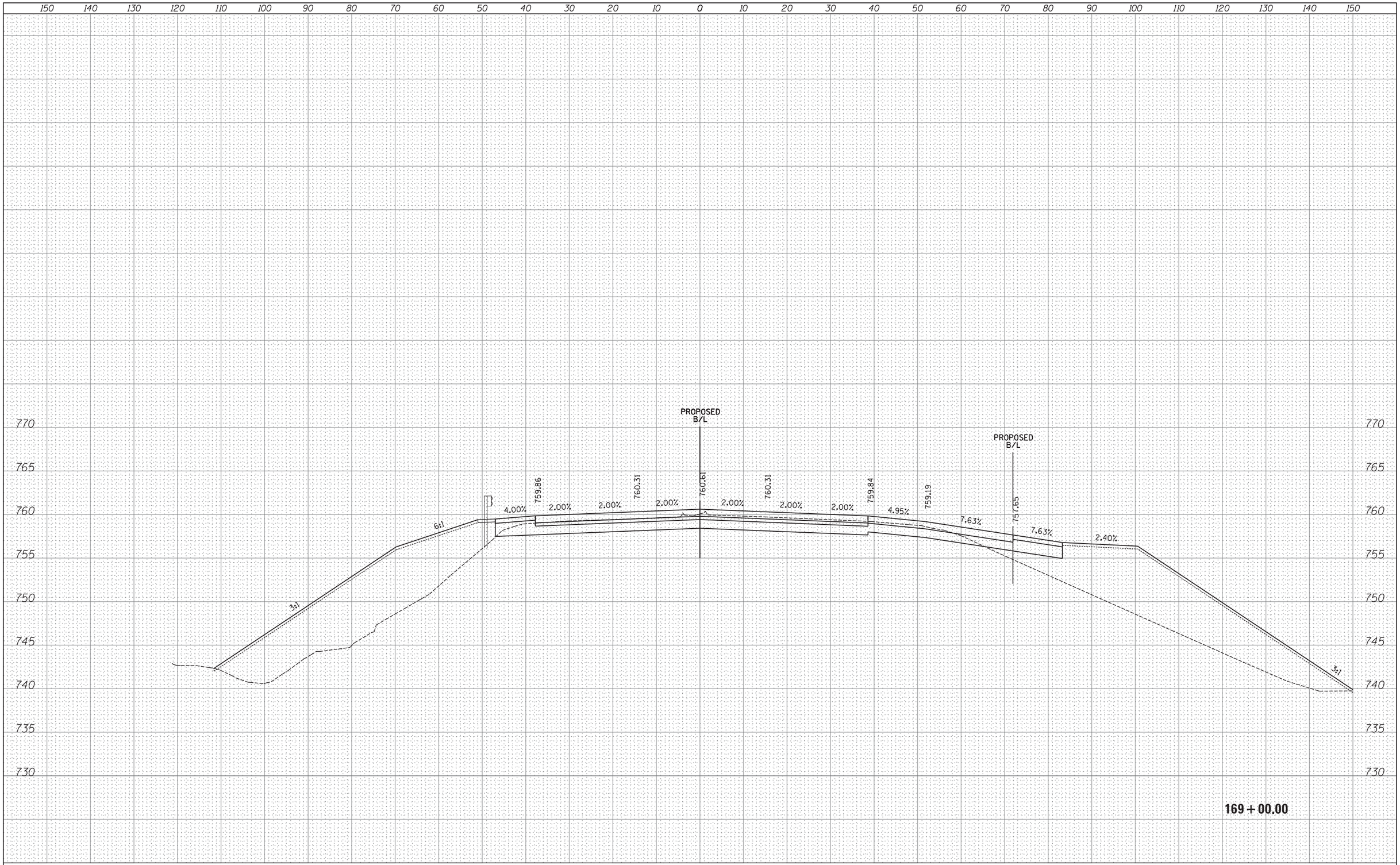
PROPOSED CROSS SECTIONS
IL ROUTE 47

SCALE: 1" = 10' | SHEET 83 OF 202 SHEETS | STA. 168+00.00 TO STA. 168+00.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
47				

CONTRACT NO.

ILLINOIS FED. AID PROJECT



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

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

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$MODELNAME$	PLOT DATE = 06/25/18	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

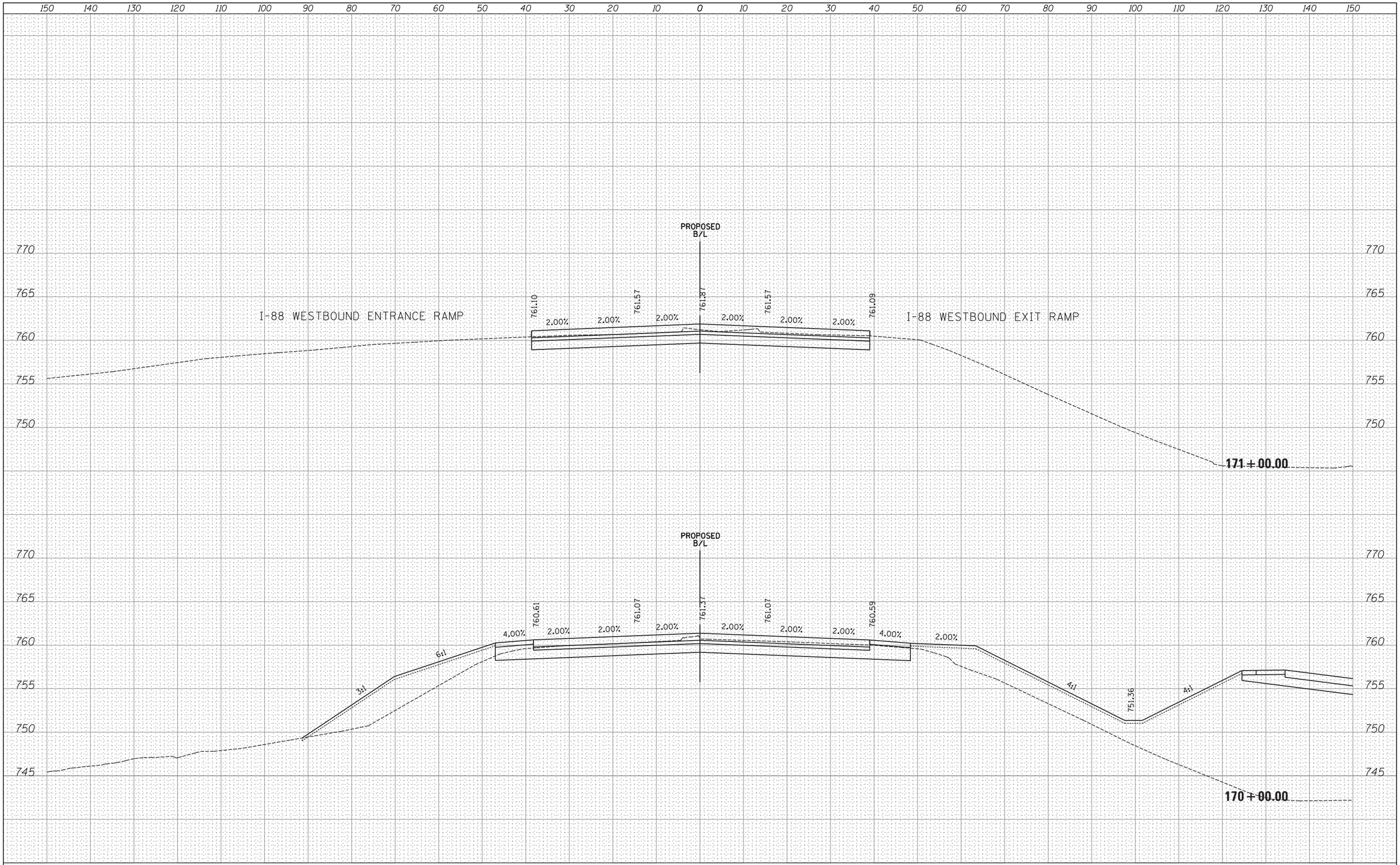
PROPOSED CROSS SECTIONS
IL ROUTE 47

SCALE: 1" = 10' | SHEET 84 OF 202 SHEETS | STA. 169+00.00 TO STA. 169+00.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
47				

CONTRACT NO.

ILLINOIS FED. AID PROJECT



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$MODELNAME$	PLOT DATE = 06/25/18	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED CROSS SECTIONS
IL ROUTE 47

SCALE: 1" = 10' | SHEET 85 OF 202 SHEETS | STA. 170+00.00 TO STA. 171+00.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
47				

CONTRACT NO.

ILLINOIS FED. AID PROJECT

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

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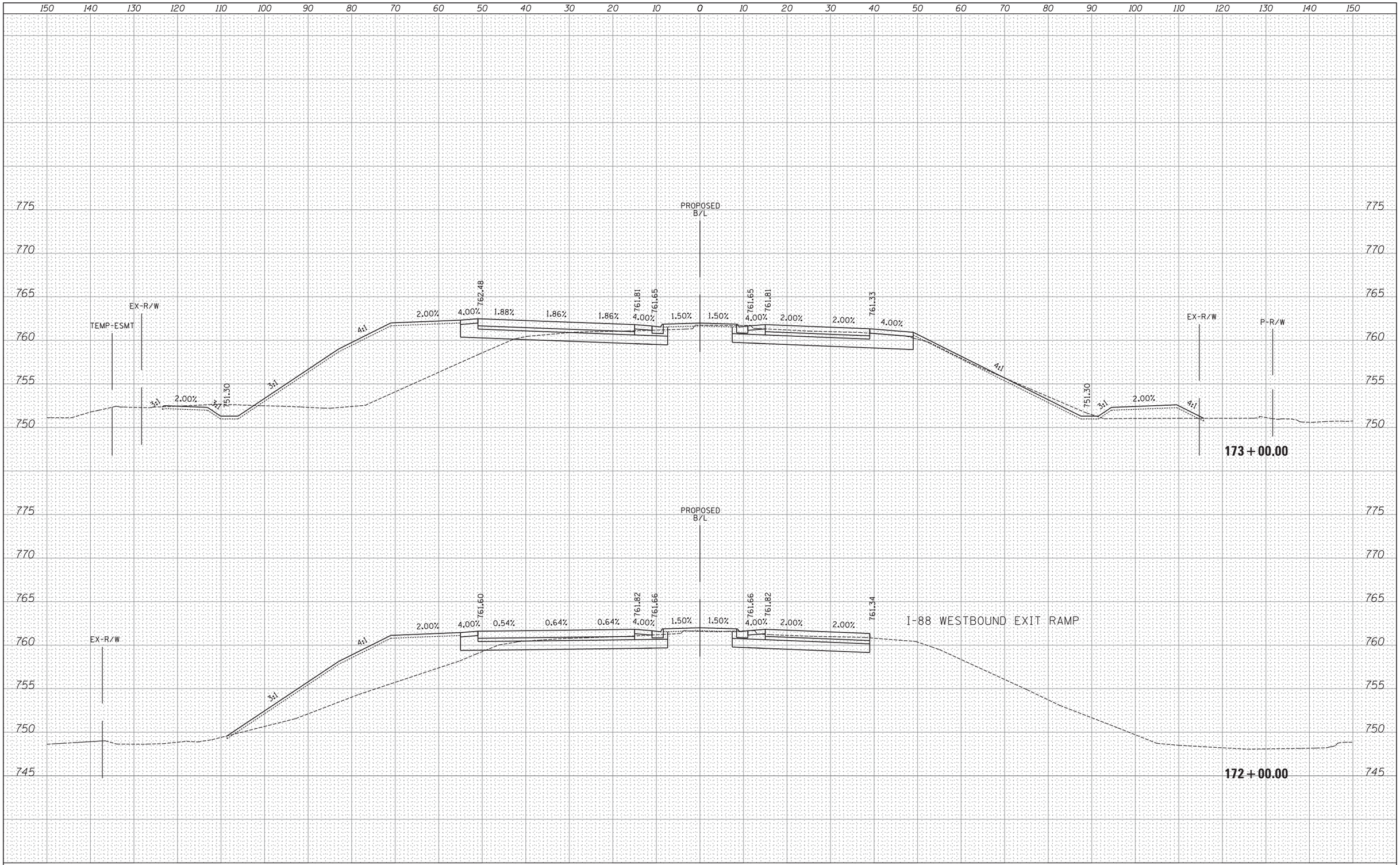
	TEMPLATE		
	AREAS		
NO.	AREAS CHECKED		



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

ORIGINAL SURVEY	BY	DATE
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AREAS CHECKED		
NOTE BOOK NO.		

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$MODELNAME$	PLOT DATE = 06/25/18	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

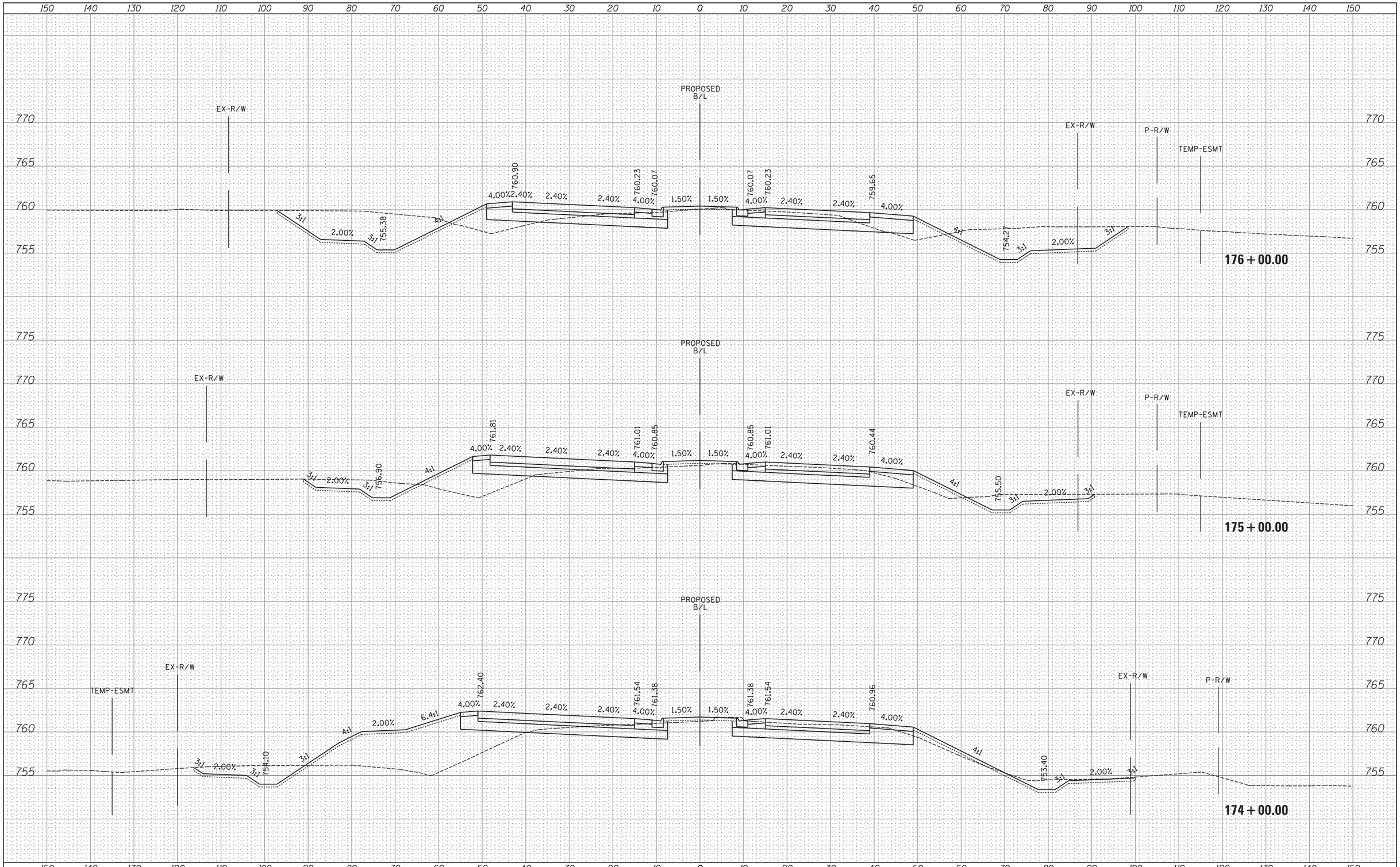
PROPOSED CROSS SECTIONS
IL ROUTE 47

SCALE: 1" = 10' | SHEET 86 OF 202 SHEETS | STA. 172+00.00 TO STA. 173+00.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
47				

CONTRACT NO.

ILLINOIS FED. AID PROJECT



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$MODELNAME$	PLOT DATE = 06/25/18	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED CROSS SECTIONS
IL ROUTE 47

SCALE: 1" = 10' | SHEET 87 OF 202 SHEETS | STA. 174+00.00 TO STA. 176+00.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
47				

CONTRACT NO.

ILLINOIS FED. AID PROJECT

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

ORIGINAL SURVEY	BY	DATE
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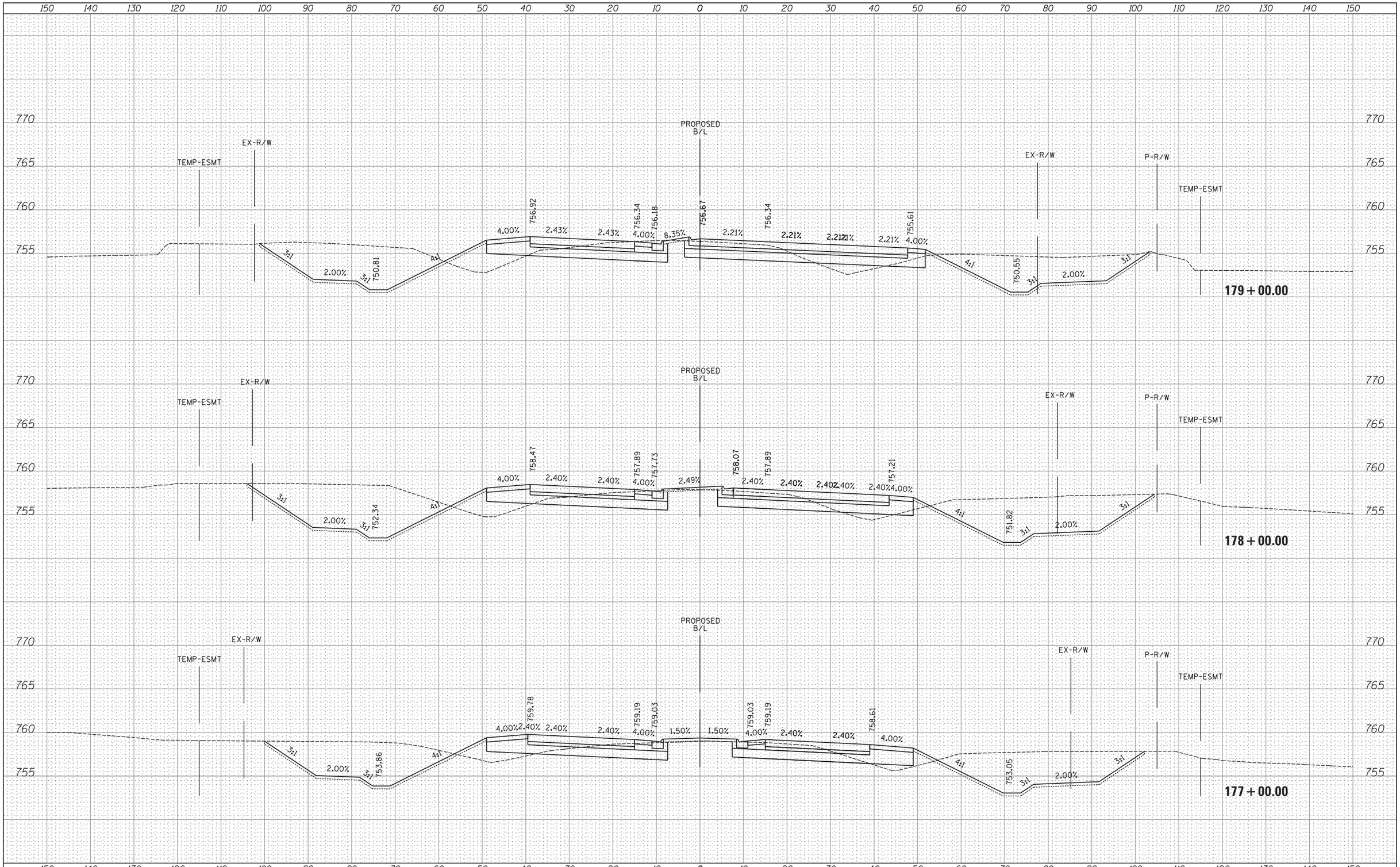
AREAS CHECKED		
NOTE BOOK NO.		



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$MODELNAME$	PLOT DATE = 06/25/18	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED CROSS SECTIONS
IL ROUTE 47

SCALE: 1" = 10' | SHEET 88 OF 202 SHEETS | STA. 177+00.00 TO STA. 179+00.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
47				

CONTRACT NO.

ILLINOIS FED. AID PROJECT

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

ORIGINAL SURVEY	BY	DATE
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PLOTTED		
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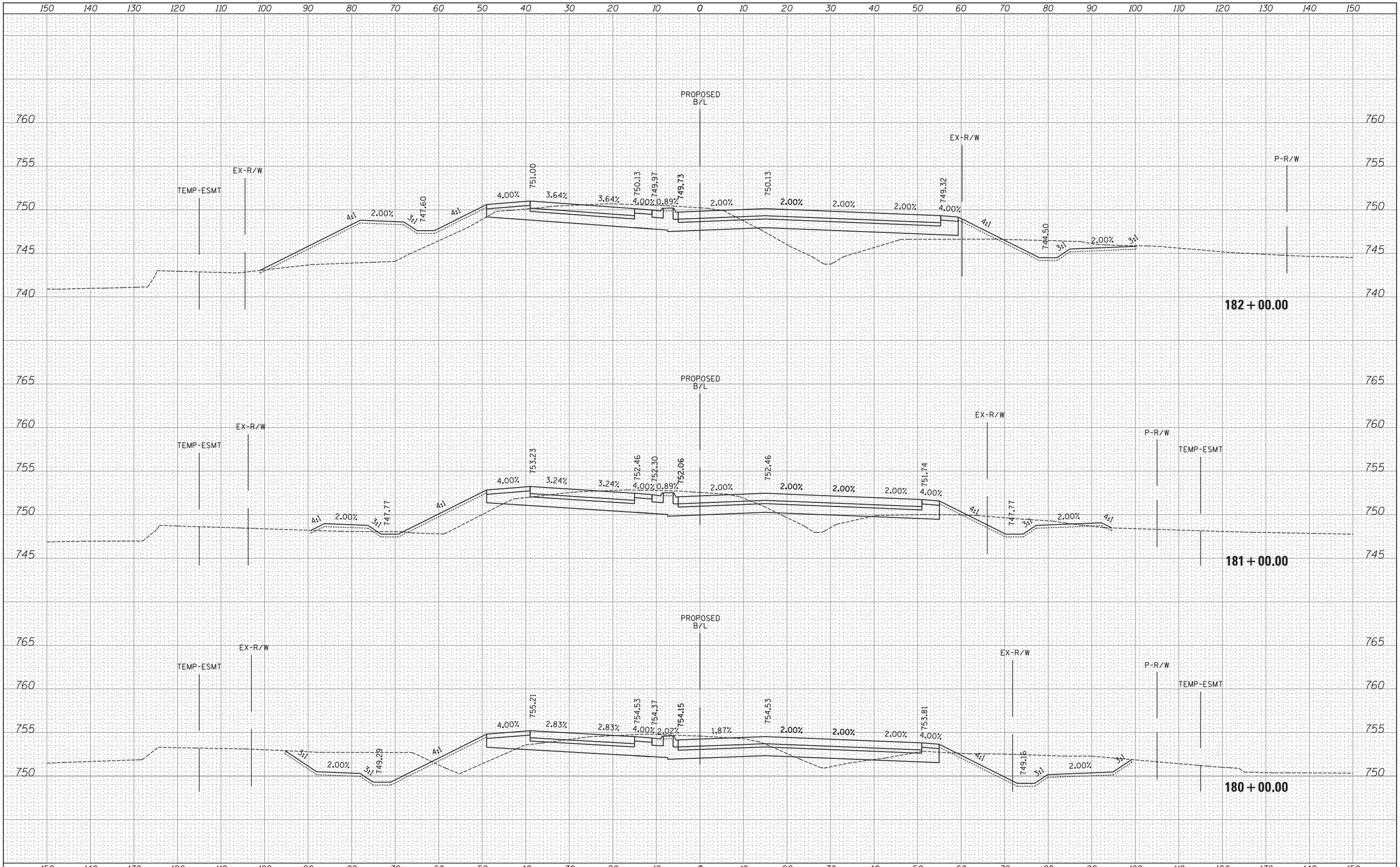
AREAS CHECKED		
NOTE BOOK NO.		



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

ORIGINAL SURVEY	BY	DATE
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AREAS		
AREAS CHECKED		
NOTE BOOK NO.		

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$MODELNAME$	PLOT DATE = 06/25/18	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

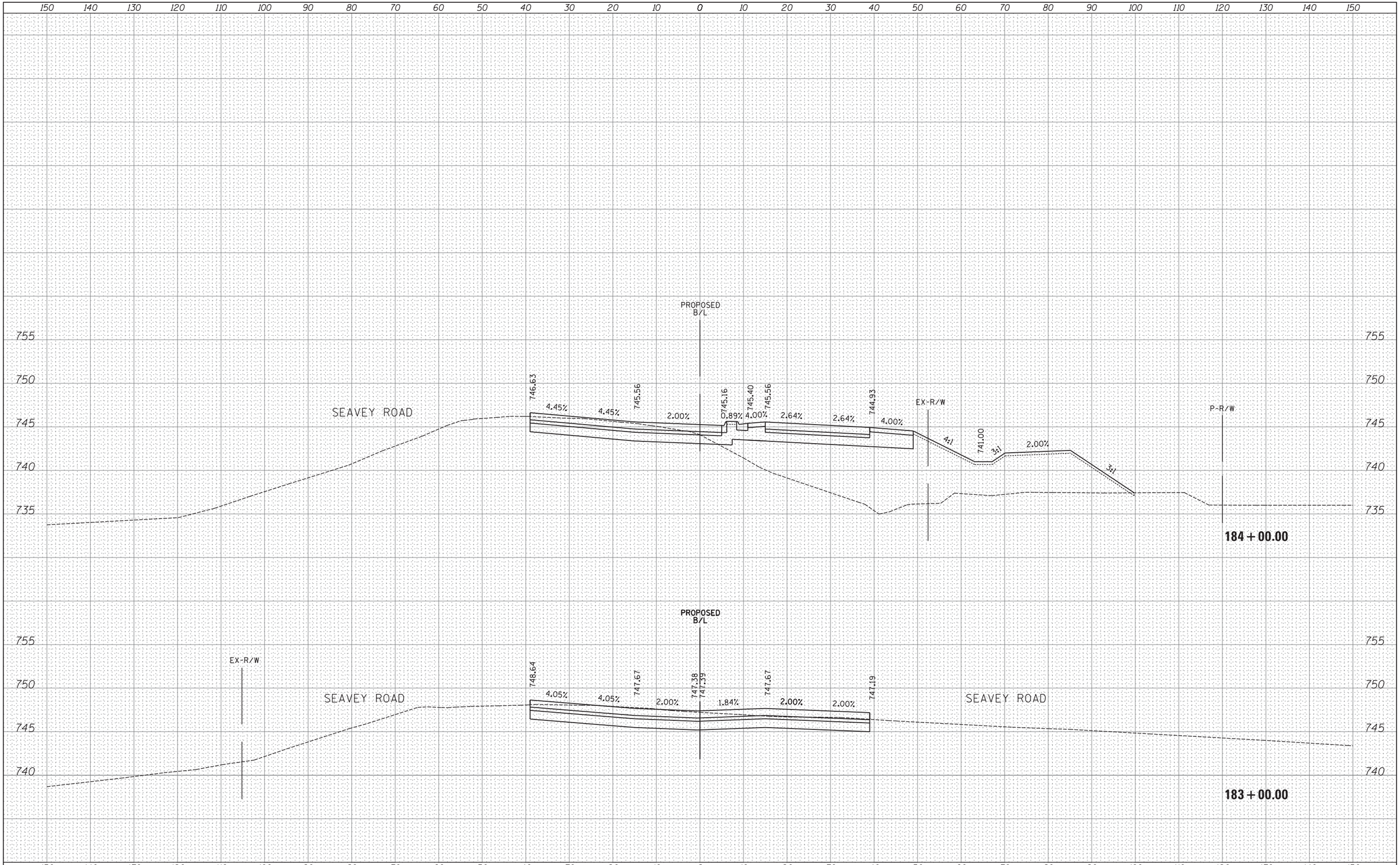
PROPOSED CROSS SECTIONS
IL ROUTE 47

SCALE: 1" = 10' | SHEET 89 OF 202 SHEETS | STA. 180+00.00 TO STA. 182+00.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
47				

CONTRACT NO.

ILLINOIS FED. AID PROJECT



FINAL SURVEY		BY	DATE
SURVEYED			
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AREAS CHECKED			
NOTE BOOK NO.			

ORIGINAL SURVEY		BY	DATE
SURVEYED			
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AREAS CHECKED			
NOTE BOOK NO.			

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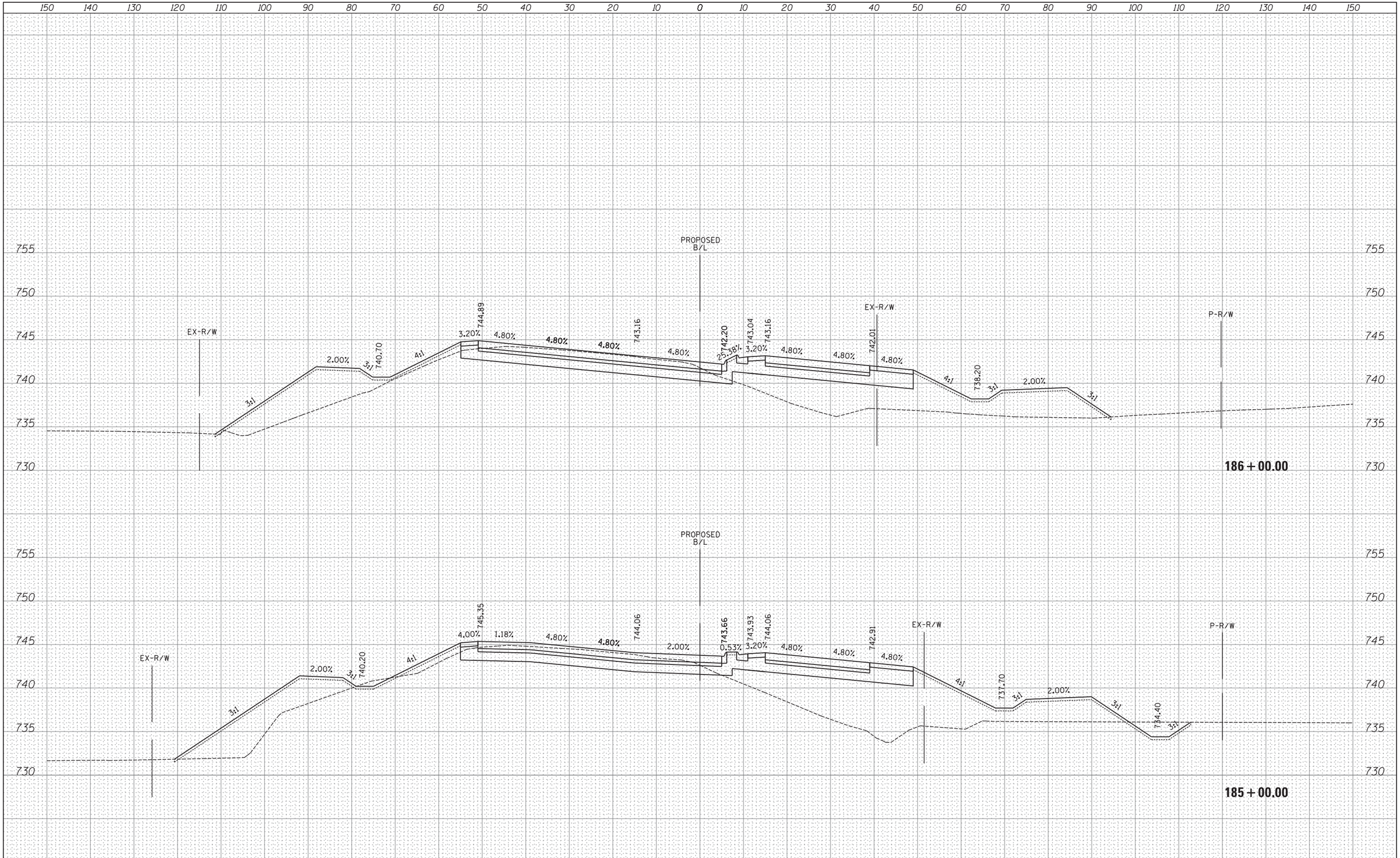
$MODELNAME$	PLOT DATE = 06/25/18	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED CROSS SECTIONS
IL ROUTE 47

SCALE: 1" = 10' | SHEET 90 OF 202 SHEETS | STA. 183+00.00 TO STA. 184+00.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
47				
		CONTRACT NO.		
	ILLINOIS	FED. AID PROJECT		



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

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

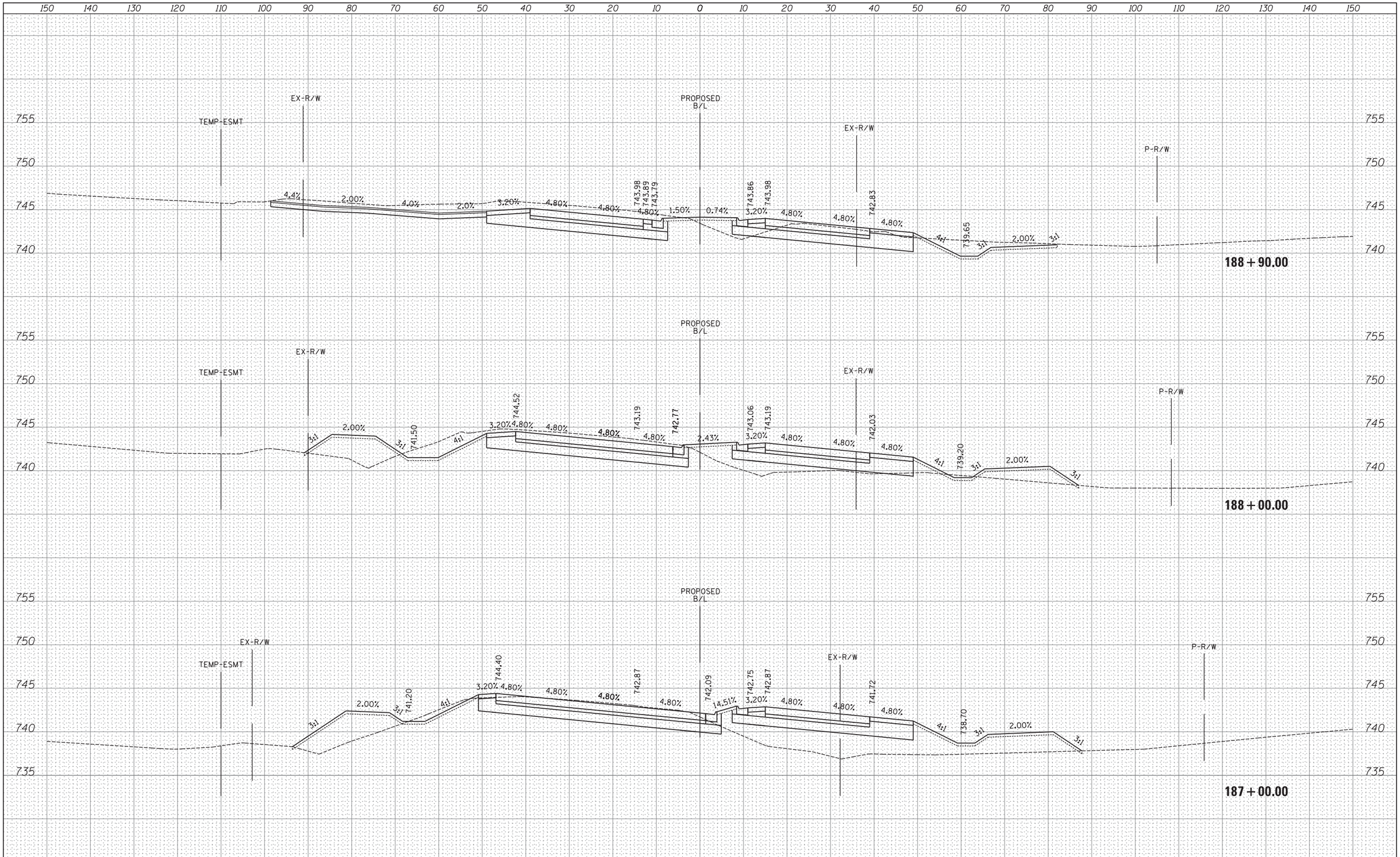
FILE NAME =	USER NAME = _USER_	DESIGNED -	REVISED -
H:\Jobs2015\20153000\CAD\Transportation\dgn\00\DIXXXXX-sht-XS47000.dgn		DRAWN -	REVISED -
	PLOT SCALE = 10.0000 ' / in.	CHECKED -	REVISED -
$MODELNAME$	PLOT DATE = 06/25/18	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED CROSS SECTIONS
IL ROUTE 47

SCALE: 1" = 10' | SHEET 91 OF 202 SHEETS | STA. 185+00.00 TO STA. 186+00.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
47				
		CONTRACT NO.		
	ILLINOIS	FED. AID PROJECT		



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

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

FILE NAME =	USER NAME = _USER_	DESIGNED -	REVISED -
H:\Jobs2015\20153000\CAD\Transportation\dgn\00\DIXXXXX-sht-XS47000.dgn		DRAWN -	REVISED -
	PLOT SCALE = 10.0000 ' / in.	CHECKED -	REVISED -
$MODELNAME$	PLOT DATE = 06/25/18	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

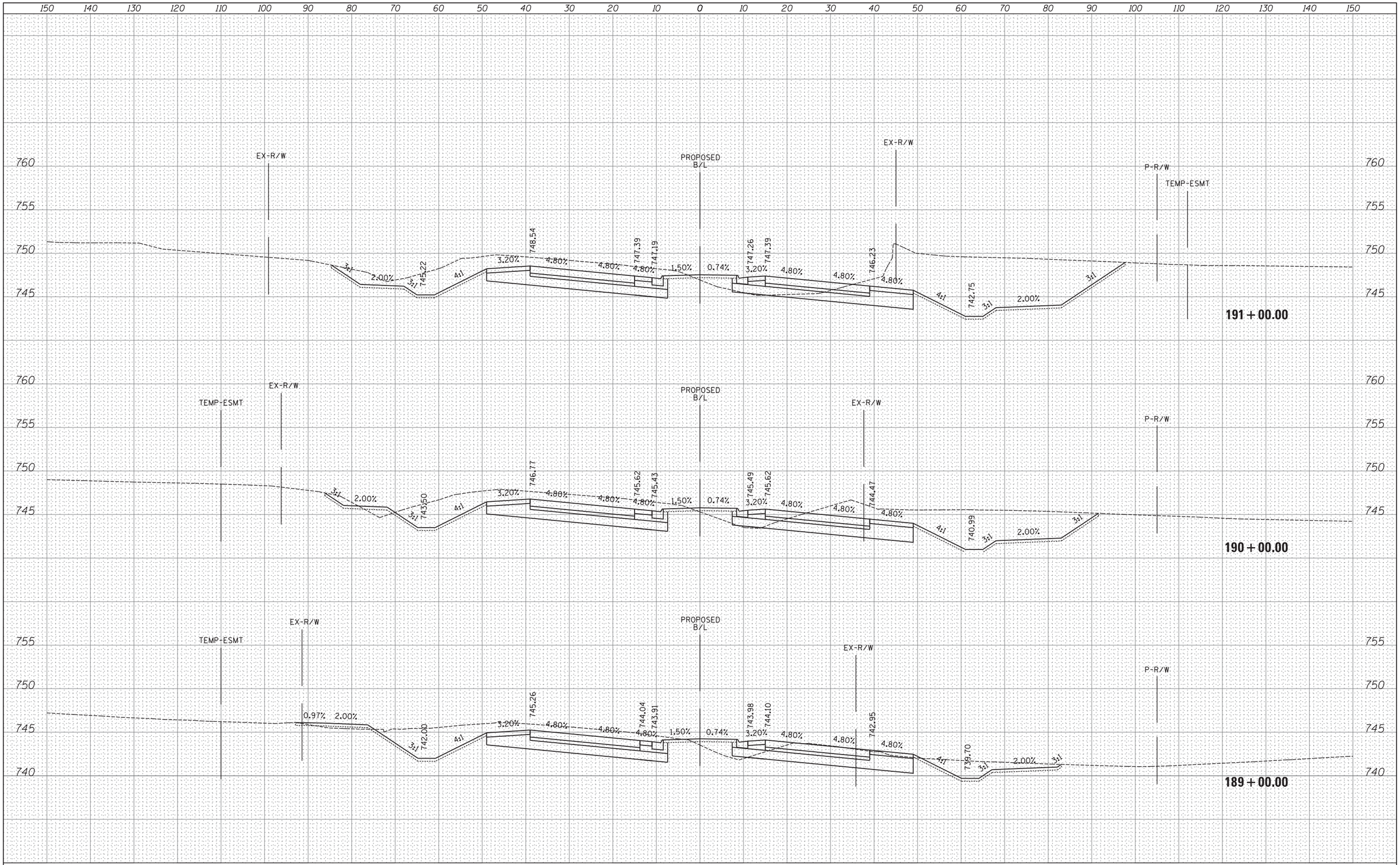
PROPOSED CROSS SECTIONS
IL ROUTE 47

SCALE: 1" = 10' | SHEET 92 OF 202 SHEETS | STA. 187+00.00 TO STA. 188+90.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
47				

CONTRACT NO.

ILLINOIS | FED. AID PROJECT



FILE NAME =	USER NAME = _USER_	DESIGNED -	REVISED -
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	PLOT SCALE = 10.0000 ' / in.	CHECKED -	REVISED -
$MODELNAME$	PLOT DATE = 06/25/18	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

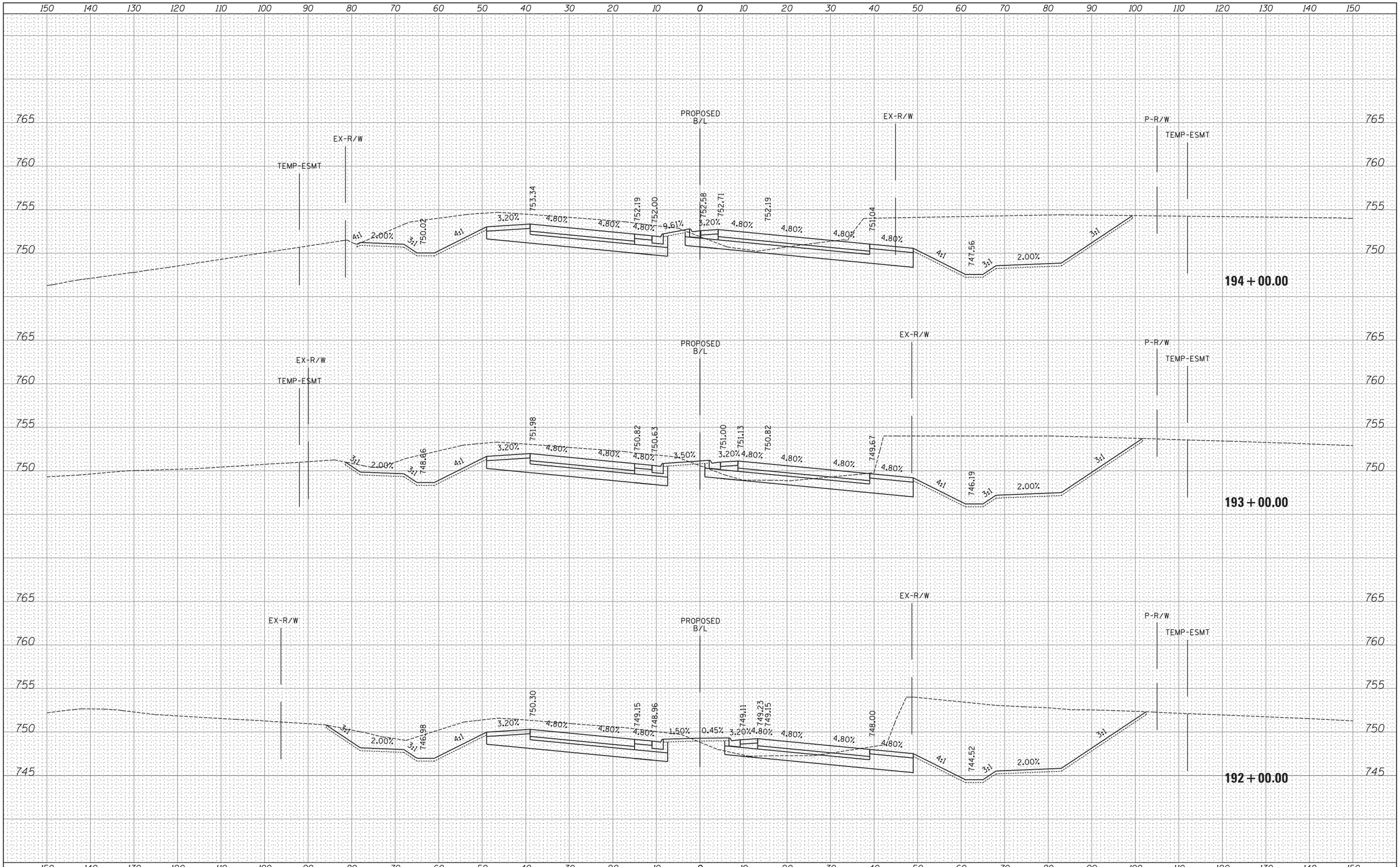
PROPOSED CROSS SECTIONS
IL ROUTE 47

SCALE: 1" = 10' | SHEET 93 OF 202 SHEETS | STA. 189+00.00 TO STA. 191+00.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
47				
		CONTRACT NO.		
	ILLINOIS	FED. AID PROJECT		

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

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



FILE NAME =	USER NAME = _USER_	DESIGNED -	REVISED -
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$MODELNAME$	PLOT DATE = 06/25/18	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED CROSS SECTIONS
IL ROUTE 47

SCALE: 1" = 10' | SHEET 94 OF 202 SHEETS | STA. 192+00.00 TO STA. 194+00.00

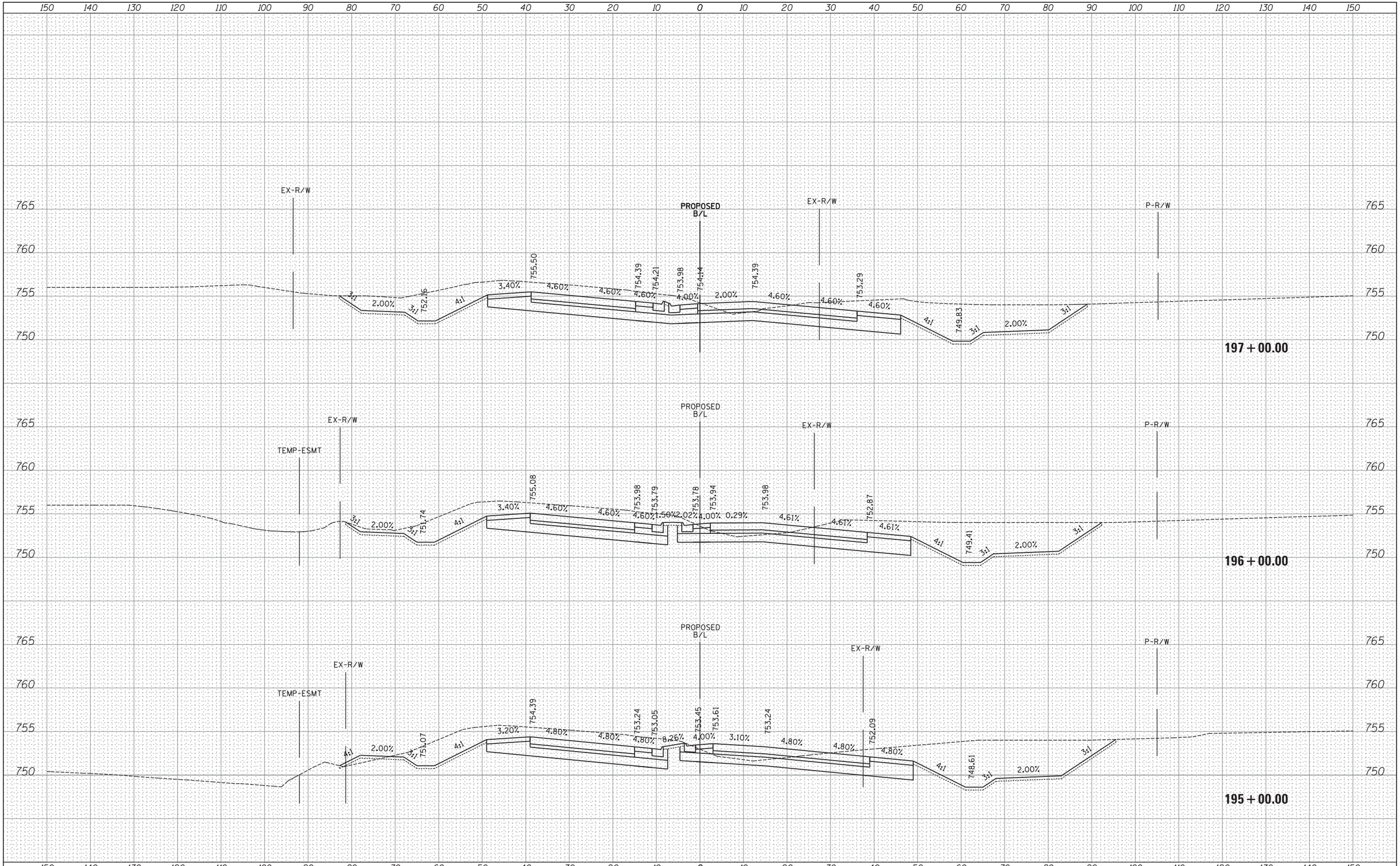
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
47				

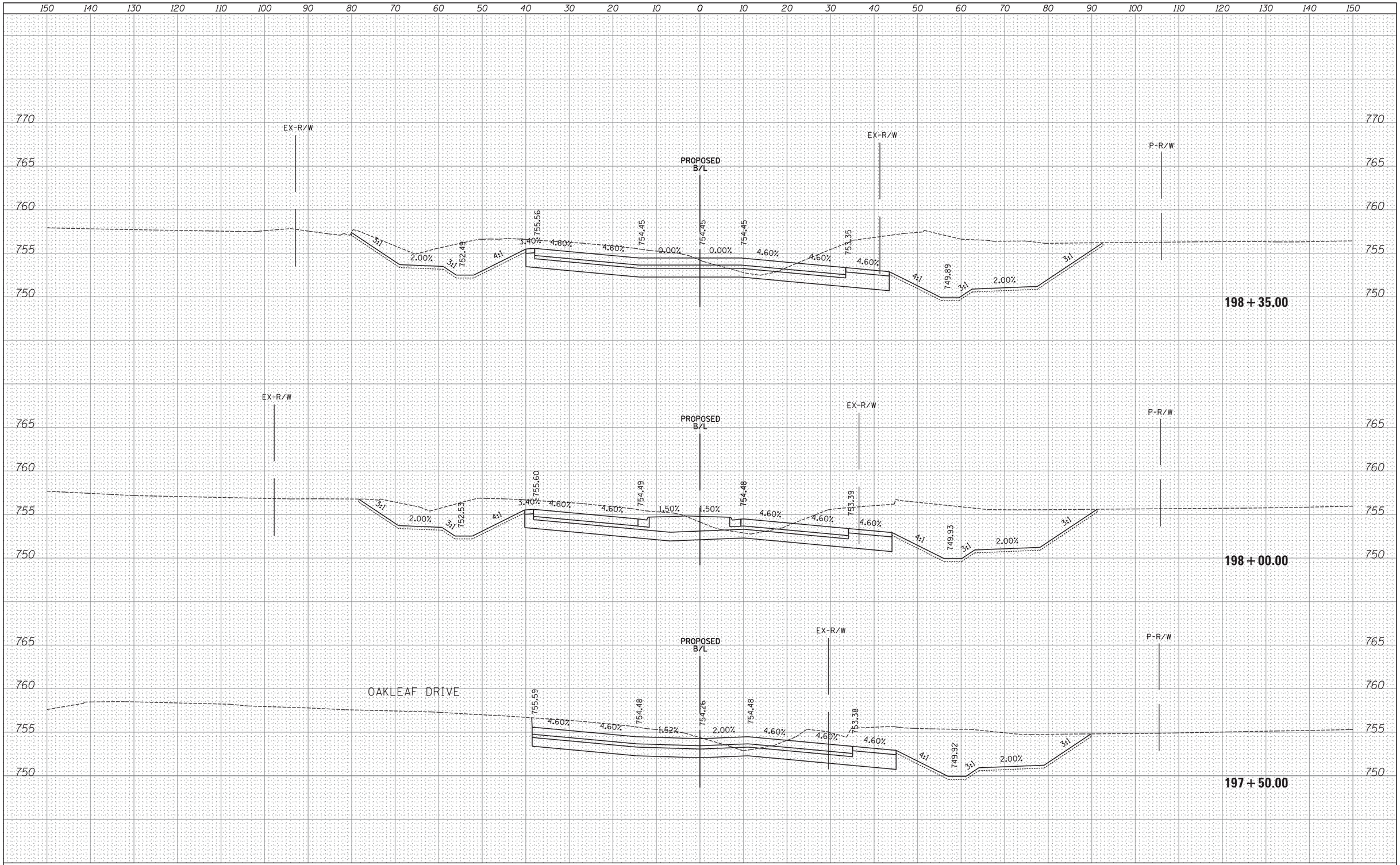
CONTRACT NO.

ILLINOIS FED. AID PROJECT

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

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


EX-R/W
PROPOSED B/L
EX-R/W
P-R/W
765
760
755
750
3:1
2.00%
3:1
752.16
4:1
3.40%
755.50
4.60%
4.60%
754.39
4.60%
754.21
753.98
4.00%
754.14
2.00%
754.39
4.60%
4.60%
753.29
4.60%
4:1
749.83
3:1
2.00%
3:1
197 + 00.00
EX-R/W
TEMP-ESMT
PROPOSED B/L
EX-R/W
P-R/W
3:1
2.00%
3:1
751.14
4:1
3.40%
755.08
4.60%
4.60%
753.98
4.60%
753.79
1.50%
753.78
2.02%
4.00%
753.94
0.29%
753.98
4.61%
4.61%
752.87
4.61%
4:1
749.41
3:1
2.00%
3:1
196 + 00.00
EX-R/W
TEMP-ESMT
PROPOSED B/L
EX-R/W
P-R/W
4:1
2.00%
3:1
751.07
4:1
3.20%
754.39
4.80%
4.80%
753.24
4.80%
753.05
8.26%
753.45
4.00%
753.61
3.10%
753.24
4.80%
4.80%
752.09
4.80%
4:1
748.61
3:1
2.00%
3:1
195 + 00.00
FINAL SURVEY
NOTE BOOK NO.
SURVEYED
PLOTTED
TEMPLATE
AREAS
AREAS CHECKED
BY
DATE
ORIGINAL SURVEY
NOTE BOOK NO.
SURVEYED
PLOTTED
TEMPLATE
AREAS
AREAS CHECKED
BY
DATE
FILE NAME =
H:\Jobs2015\20153000\CAD\Transportation\dgn\00\DIXXXXX-sht-XS47000.dgn
$MODELNAME$
USER NAME = _USER_
PLOT SCALE = 10.0000 ' / in.
PLOT DATE = 06/25/18
DESIGNED -
DRAWN -
CHECKED -
DATE -
REVISED -
REVISED -
REVISED -
REVISED -
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
PROPOSED CROSS SECTIONS
IL ROUTE 47
SCALE: 1" = 10'
SHEET 95 OF 202 SHEETS
STA. 195+00.00 TO STA. 197+00.00
F.A. RTE. 47
SECTION
COUNTY
TOTAL SHEETS
SHEET NO.
CONTRACT NO.
ILLINOIS FED. AID PROJECT



FILE NAME =	USER NAME = _USER_	DESIGNED -	REVISED -
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	PLOT SCALE = 10.0000 ' / in.	CHECKED -	REVISED -
$MODELNAME$	PLOT DATE = 06/25/18	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED CROSS SECTIONS
IL ROUTE 47

SCALE: 1" = 10' | SHEET 96 OF 202 SHEETS | STA. 197+50.00 TO STA. 198+35.00

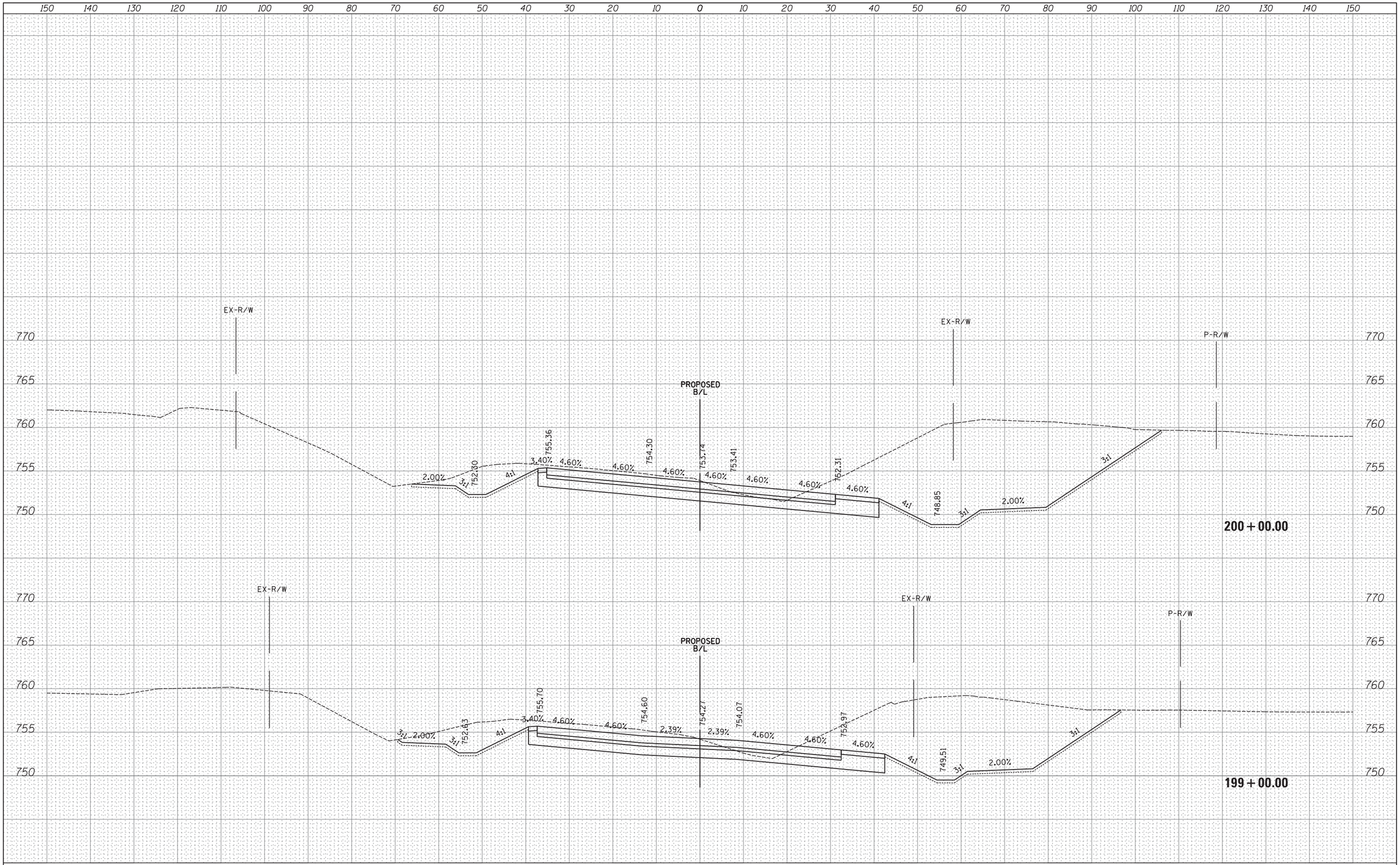
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
47				

CONTRACT NO.

ILLINOIS FED. AID PROJECT

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

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



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

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

FILE NAME =	USER NAME = _USER_	DESIGNED -	REVISED -
H:\Jobs2015\20153000\CAD\Transportation\dgn\00\DIXXXXX-sht-XS47000.dgn		DRAWN -	REVISED -
	PLOT SCALE = 10.0000 ' / in.	CHECKED -	REVISED -
$MODELNAME$	PLOT DATE = 06/25/18	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

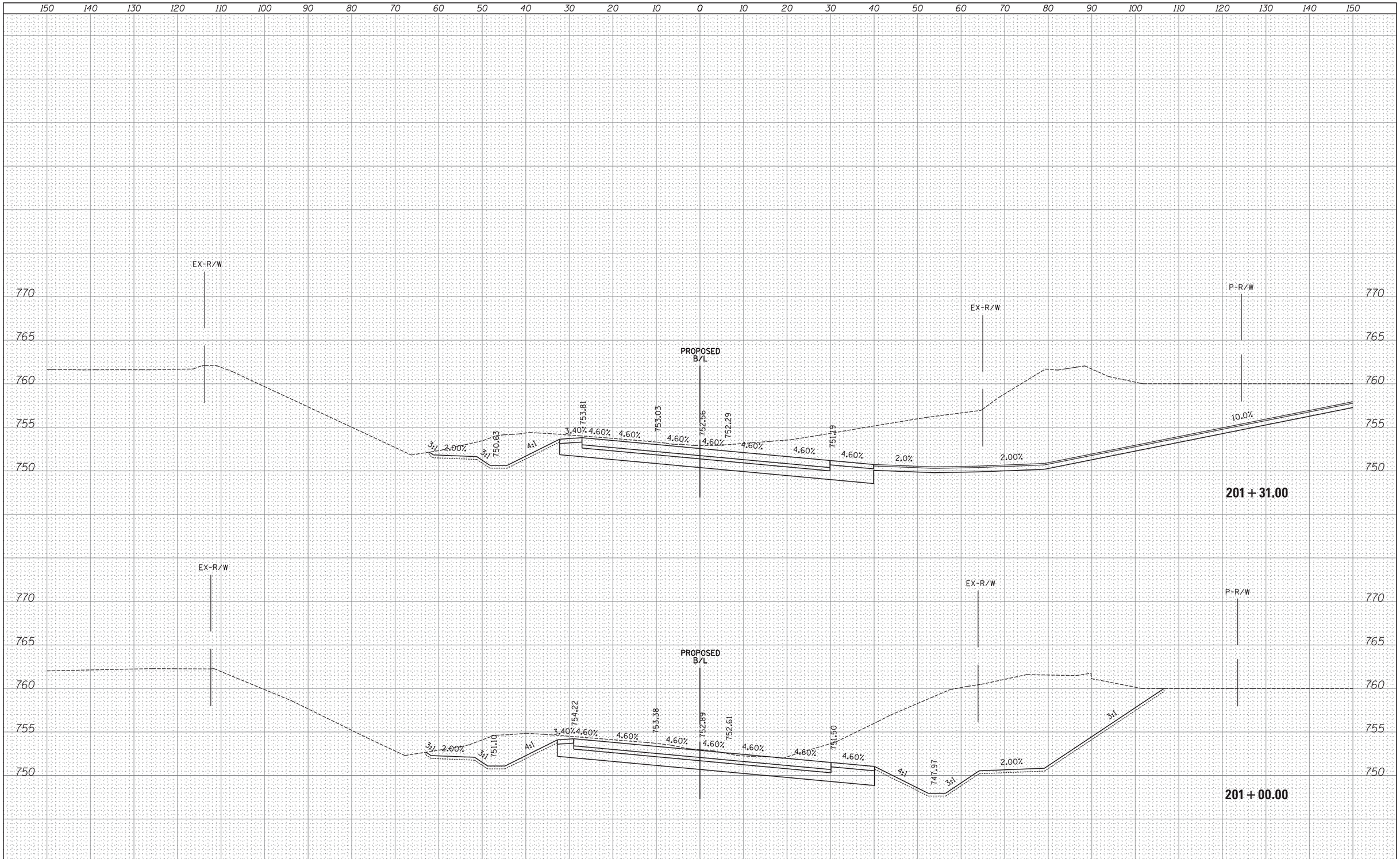
PROPOSED CROSS SECTIONS
IL ROUTE 47

SCALE: 1" = 10' | SHEET 97 OF 202 SHEETS | STA. 199+00.00 TO STA. 200+00.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
47				

CONTRACT NO.

ILLINOIS FED. AID PROJECT



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

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

FILE NAME = H:\Jobs2015\20153000\CAD\Transportation\dgn\00\DIXXXXX-sht-XS47000.dgn	USER NAME = _USER_	DESIGNED -	REVISED -
		DRAWN -	REVISED -
	PLOT SCALE = 10.0000 ' / in.	CHECKED -	REVISED -
$MODELNAME$	PLOT DATE = 06/25/18	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

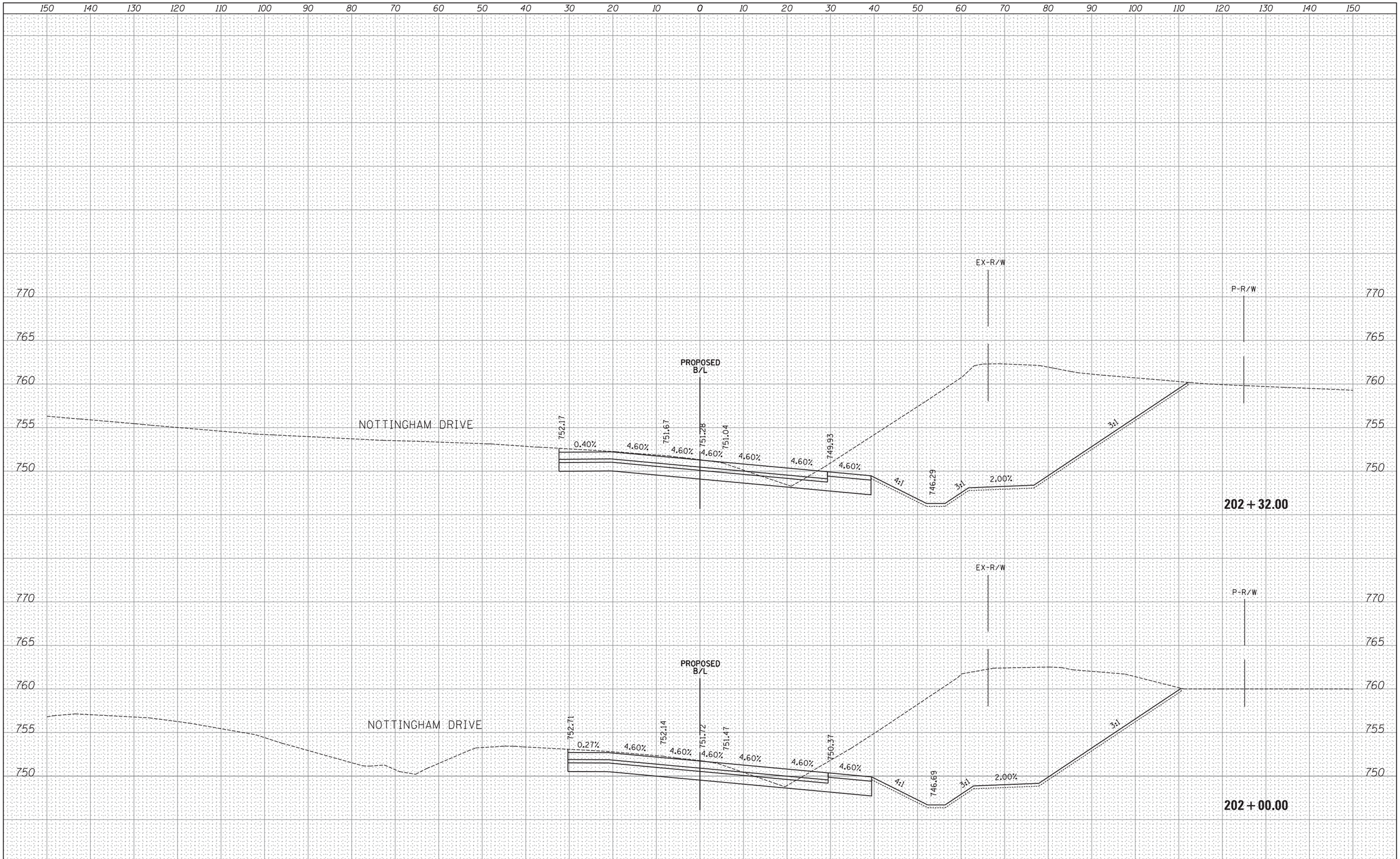
PROPOSED CROSS SECTIONS
IL ROUTE 47

SCALE: 1" = 10' | SHEET 98 OF 202 SHEETS | STA. 201+00.00 TO STA. 201+31.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
47				

CONTRACT NO.

ILLINOIS FED. AID PROJECT



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

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

FILE NAME =	USER NAME = _USER_	DESIGNED -	REVISED -
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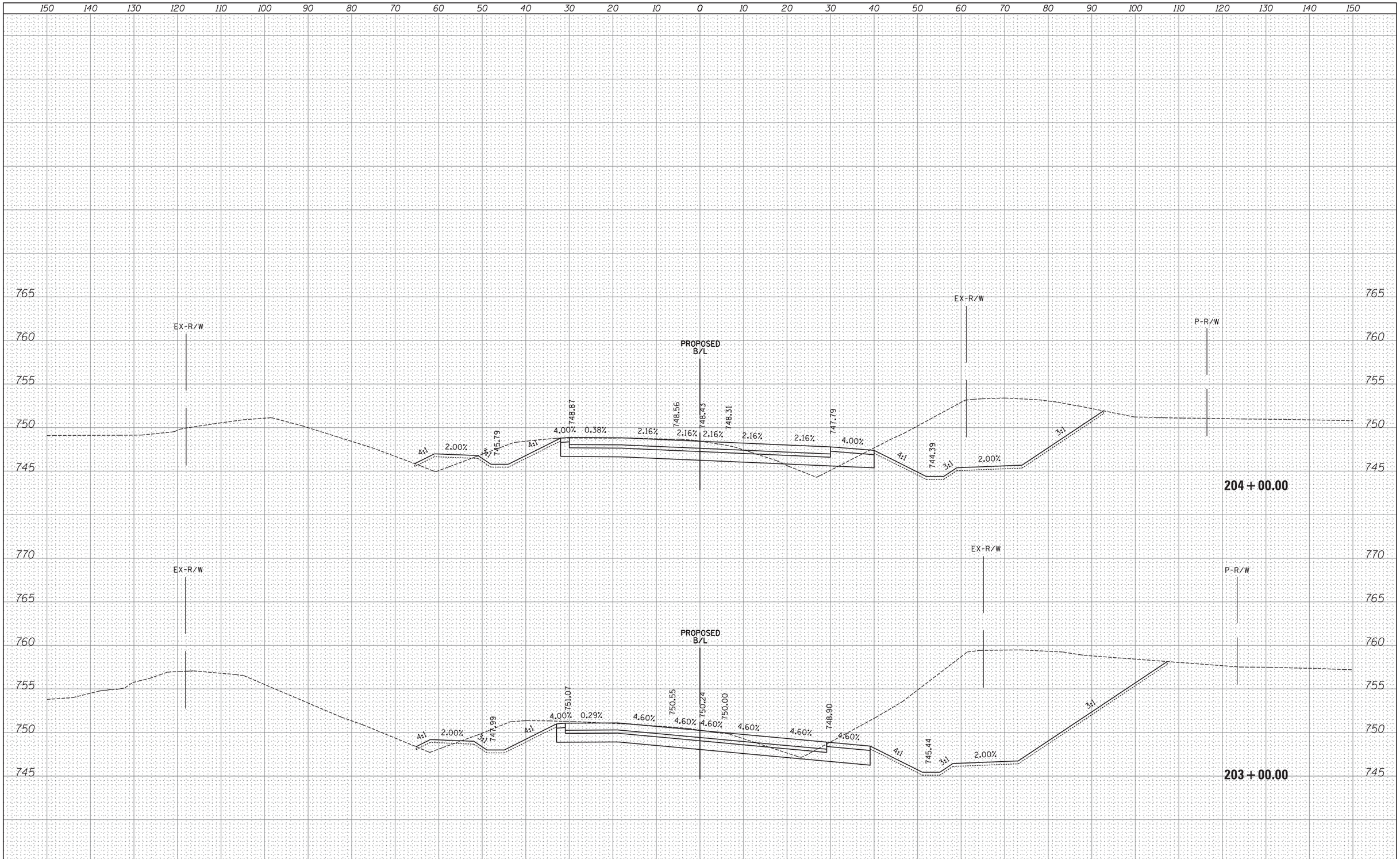
	PLOT SCALE = 10.0000 ' / in.	CHECKED -	REVISED -
$MODELNAME$	PLOT DATE = 06/25/18	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED CROSS SECTIONS
IL ROUTE 47

SCALE: 1" = 10' | SHEET 99 OF 202 SHEETS | STA. 202+00.00 TO STA. 202+32.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
47				
		CONTRACT NO.		
	ILLINOIS	FED. AID PROJECT		



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

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

FILE NAME =	USER NAME = _USER_	DESIGNED -	REVISED -
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	PLOT SCALE = 10.0000 ' / in.	CHECKED -	REVISED -
$MODELNAME$	PLOT DATE = 06/25/18	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

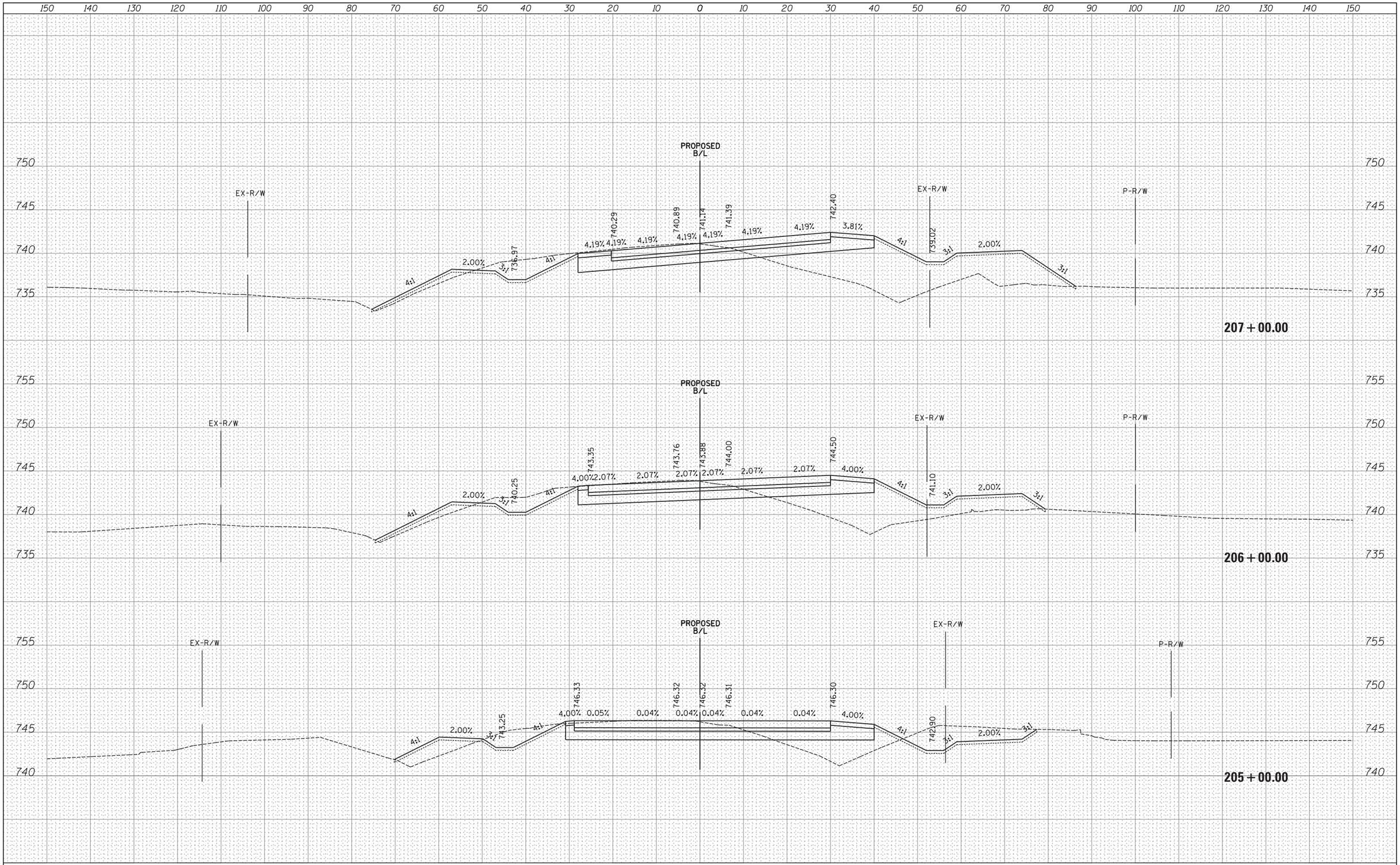
PROPOSED CROSS SECTIONS
IL ROUTE 47

SCALE: 1" = 10' | SHEET 100 OF 202 SHEETS | STA. 203+00.00 TO STA. 204+00.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
47				

CONTRACT NO.

ILLINOIS | FED. AID PROJECT



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

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

FILE NAME =	USER NAME = _USER_	DESIGNED -	REVISED -
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	PLOT SCALE = 10.0000 ' / in.	CHECKED -	REVISED -
$MODELNAME$	PLOT DATE = 06/25/18	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

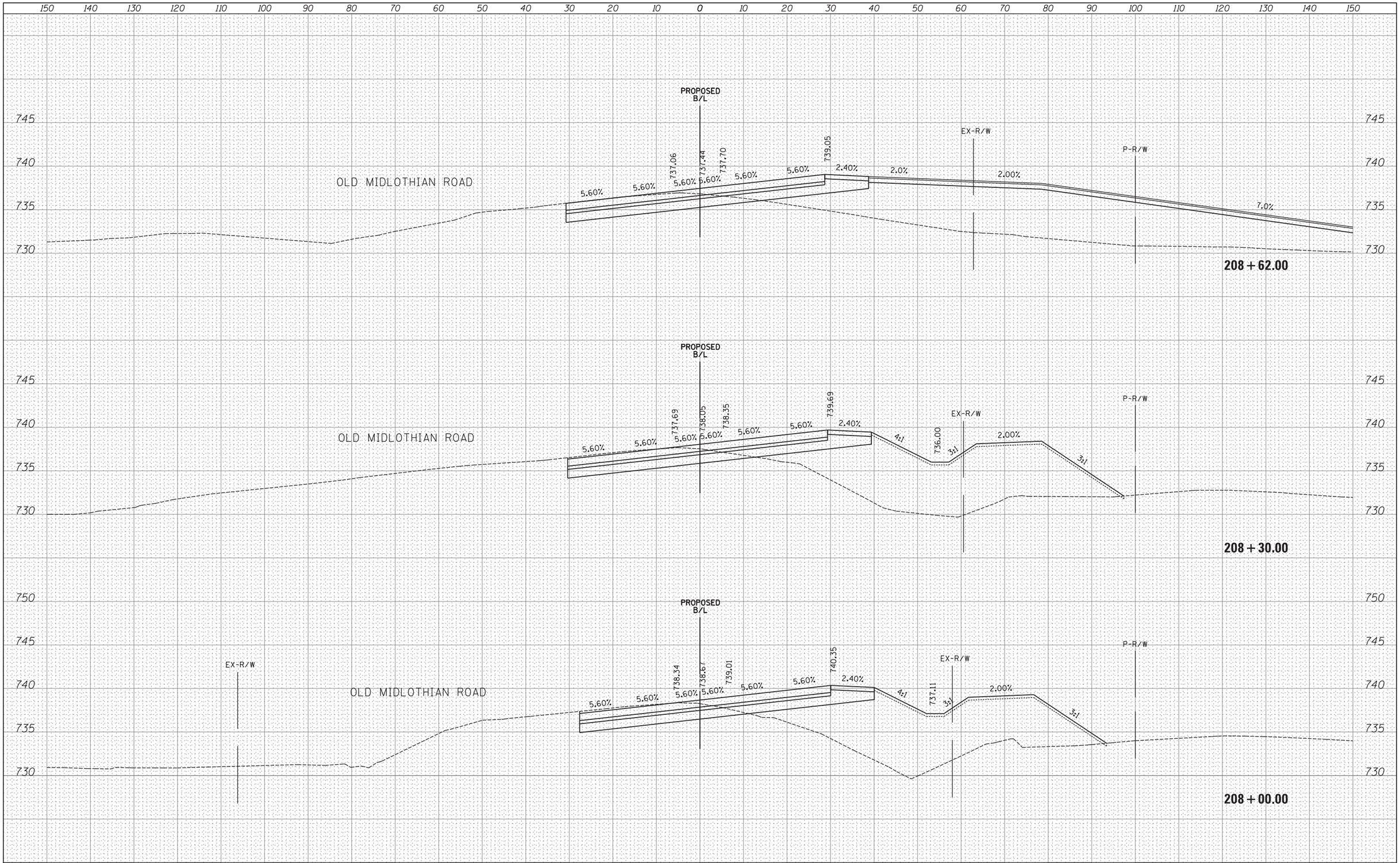
PROPOSED CROSS SECTIONS
IL ROUTE 47

SCALE: 1" = 10' | SHEET 101 OF 202 SHEETS | STA. 205+00.00 TO STA. 207+00.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
47				

CONTRACT NO.

ILLINOIS FED. AID PROJECT



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

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

FILE NAME = H:\Jobs2015\20153000\CAD\Transportation\dgn\00\DIXXXXX-sht-XS47000.dgn	USER NAME = _USER_	DESIGNED -	REVISED -
		DRAWN -	REVISED -
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$MODELNAME$	PLOT DATE = 06/25/18	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

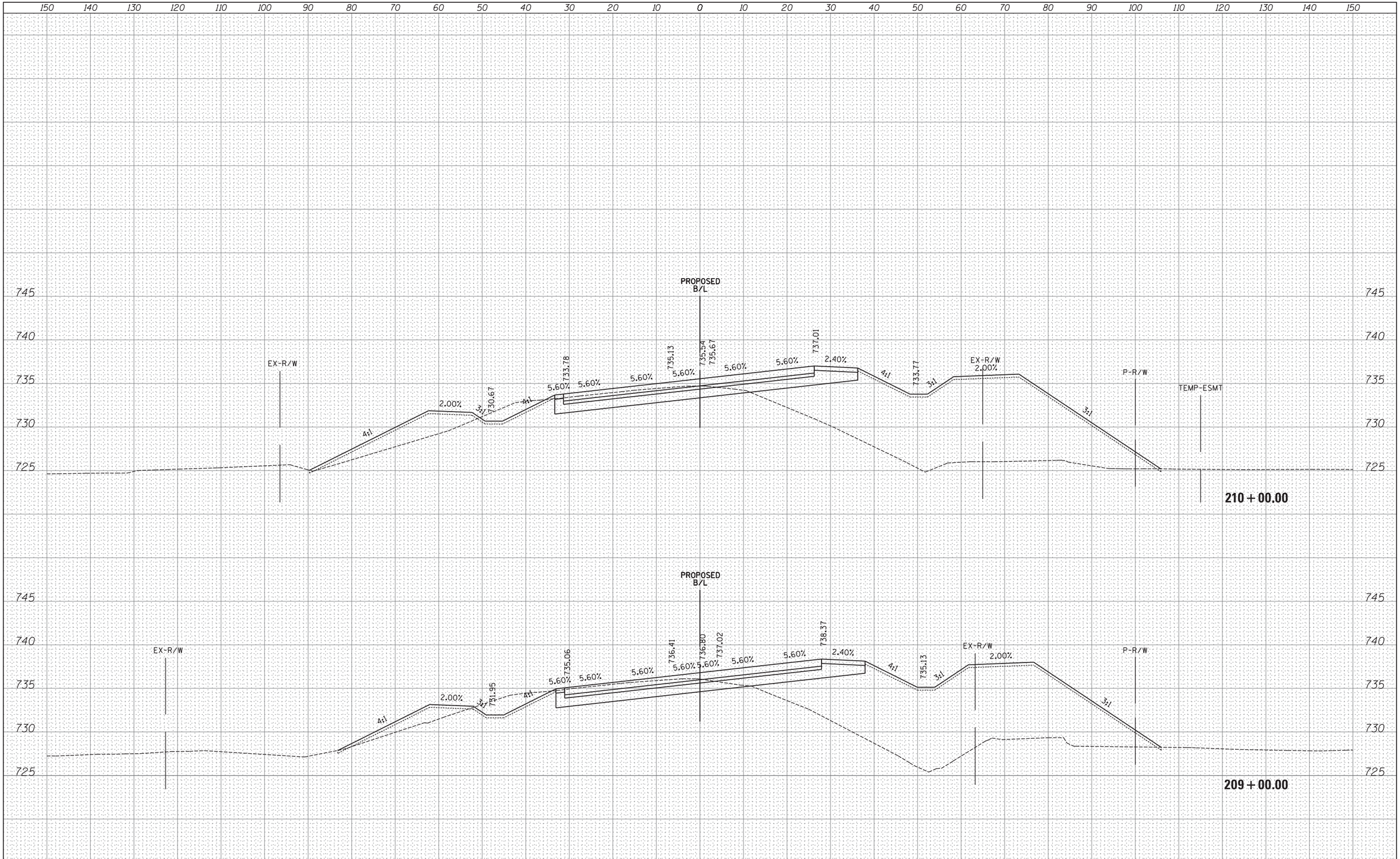
PROPOSED CROSS SECTIONS
IL ROUTE 47

SCALE: 1" = 10' | SHEET 102 OF 202 SHEETS | STA. 208+00.00 TO STA. 208+62.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
47				

CONTRACT NO.

ILLINOIS FED. AID PROJECT



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

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

FILE NAME =	USER NAME = _USER_	DESIGNED -	REVISED -
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	PLOT SCALE = 10.0000 ' / in.	CHECKED -	REVISED -
$MODELNAME$	PLOT DATE = 06/25/18	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

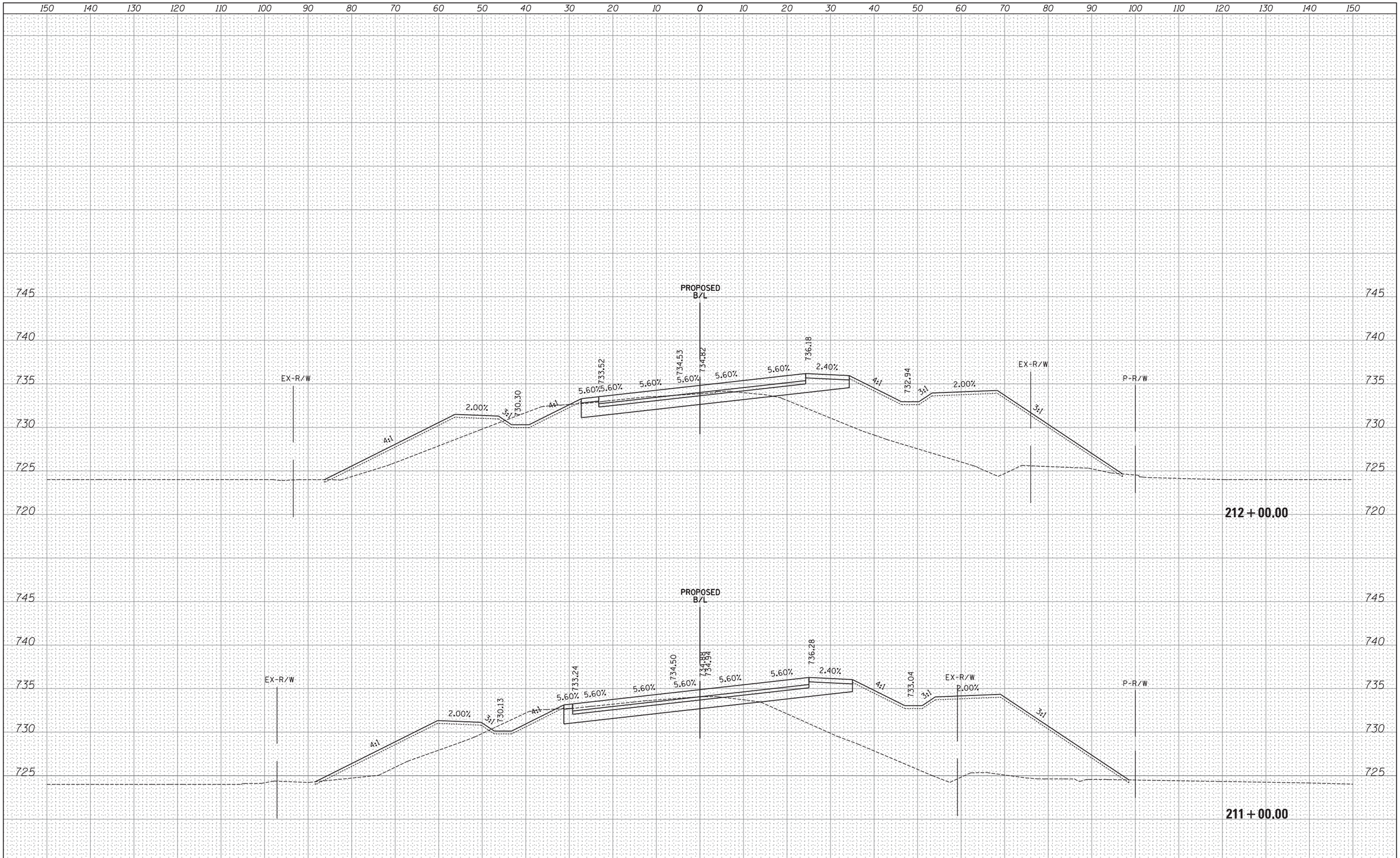
PROPOSED CROSS SECTIONS
IL ROUTE 47

SCALE: 1" = 10' | SHEET 103 OF 202 SHEETS | STA. 209+00.00 TO STA. 210+00.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
47				

CONTRACT NO.

ILLINOIS FED. AID PROJECT



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	PLOT SCALE = 10.0000 ' / in.	CHECKED -	REVISED -
$MODELNAME$	PLOT DATE = 06/25/18	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED CROSS SECTIONS
IL ROUTE 47

SCALE: 1" = 10' | SHEET 104 OF 202 SHEETS | STA. 211+00.00 TO STA. 212+00.00

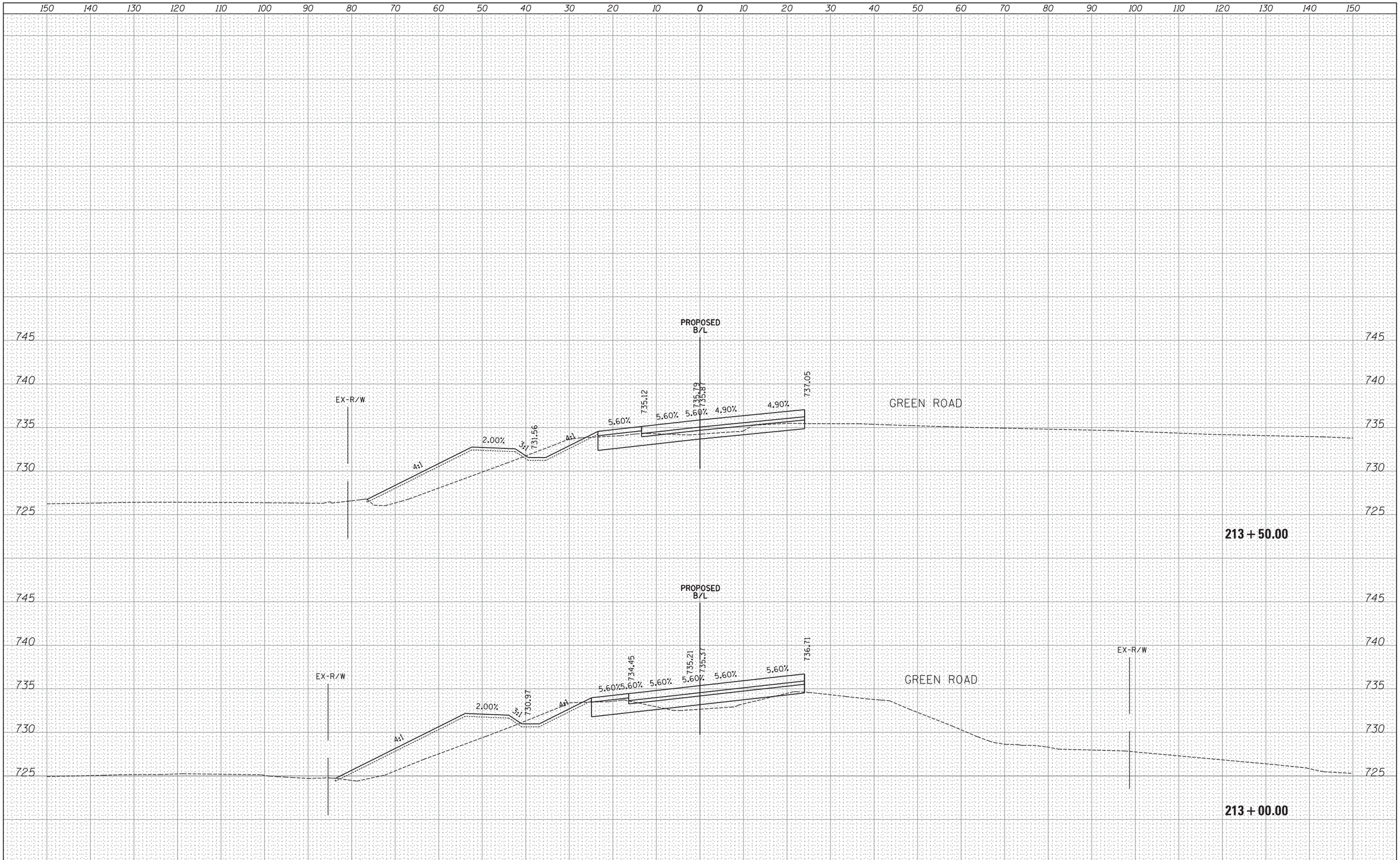
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
47				

CONTRACT NO.

ILLINOIS FED. AID PROJECT

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

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



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

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

FILE NAME =	USER NAME = _USER_	DESIGNED -	REVISED -
H:\Jobs2015\20153000\CAD\Transportation\dgn\00\DIXXXXX-sht-XS47000.dgn		DRAWN -	REVISED -
	PLOT SCALE = 10.0000 ' / in.	CHECKED -	REVISED -
$MODELNAME$	PLOT DATE = 06/25/18	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

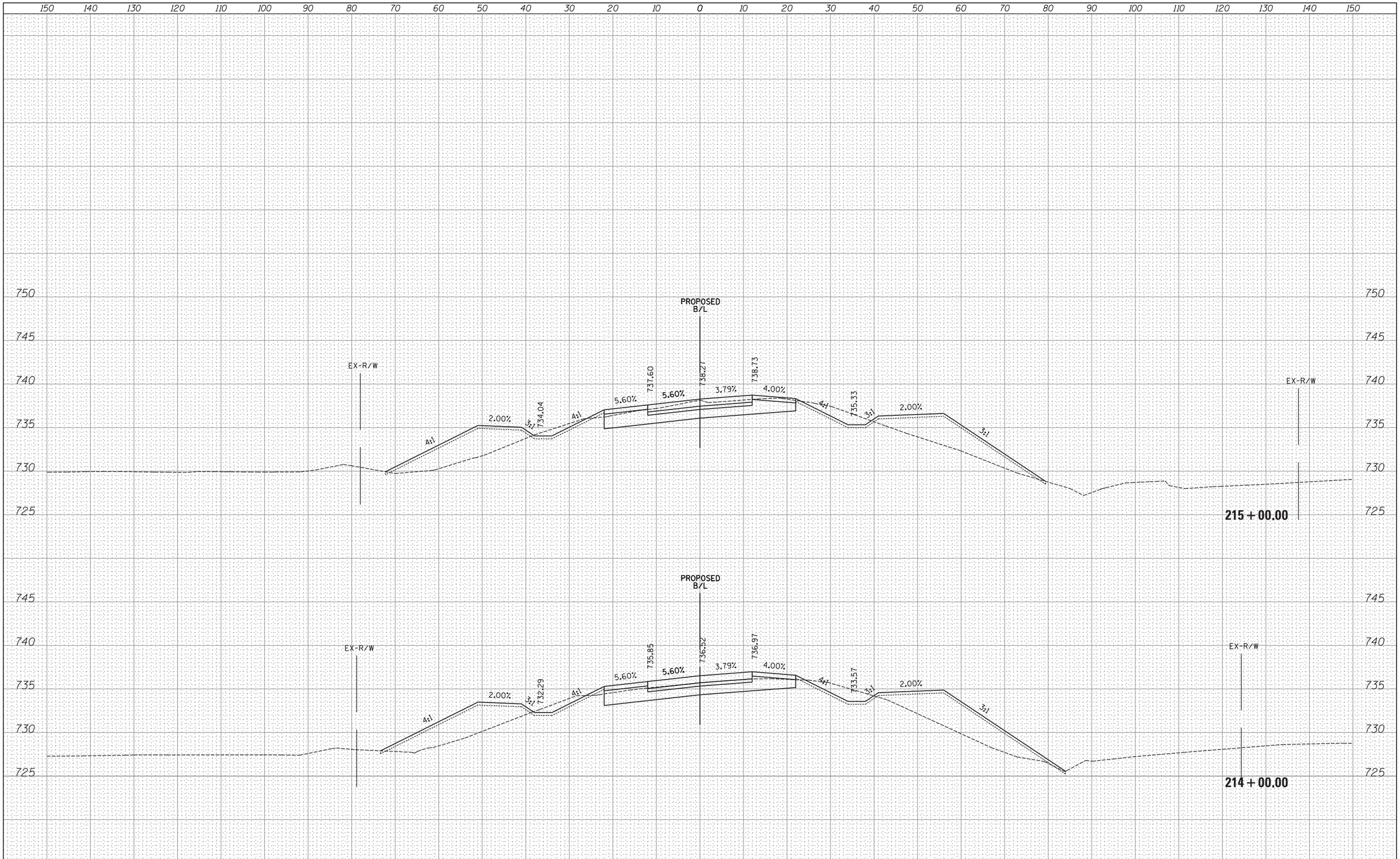
PROPOSED CROSS SECTIONS
IL ROUTE 47

SCALE: 1" = 10' | SHEET 105 OF 202 SHEETS | STA. 213+00.00 TO STA. 213+50.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
47				

CONTRACT NO.

ILLINOIS FED. AID PROJECT



FILE NAME =	USER NAME = _USER_	DESIGNED -	REVISED -
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	PLOT SCALE = 10.0000 ' / in.	CHECKED -	REVISED -
$MODELNAME$	PLOT DATE = 06/25/18	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED CROSS SECTIONS
IL ROUTE 47

SCALE: 1" = 10' | SHEET 106 OF 202 SHEETS | STA. 214+00.00 TO STA. 215+00.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
47				

CONTRACT NO.

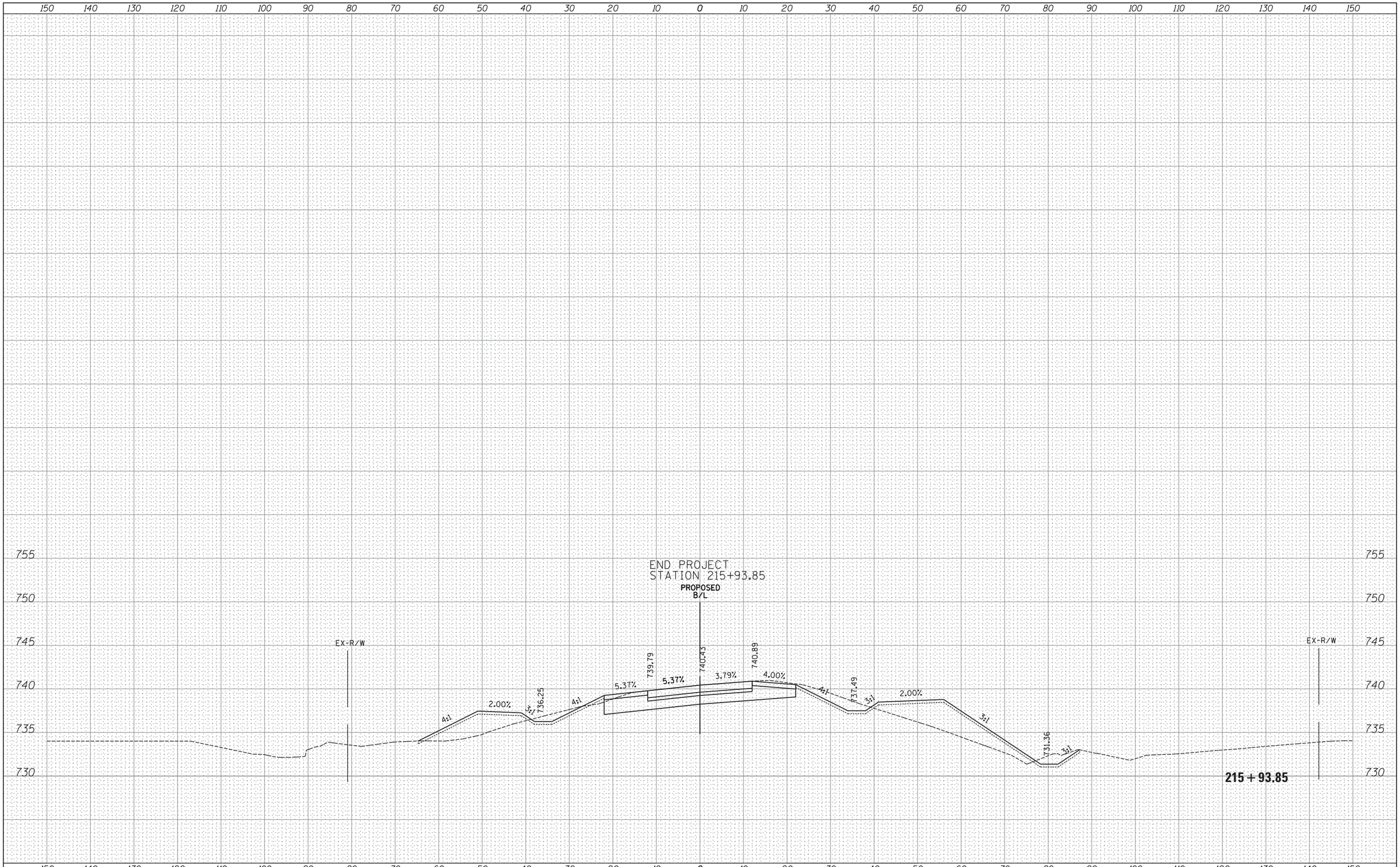
ILLINOIS | FED. AID PROJECT

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

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

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

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



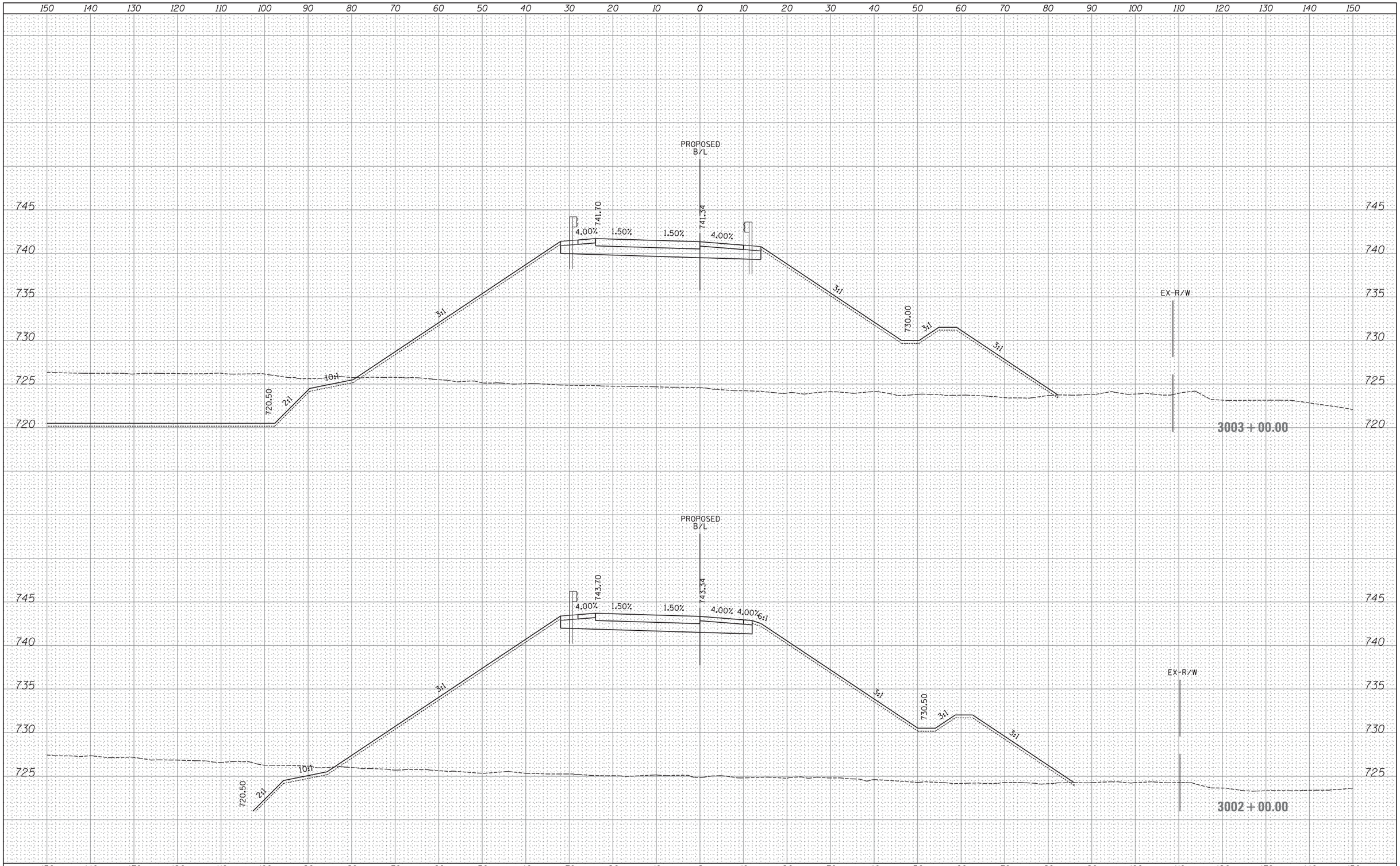
FILE NAME =	USER NAME = _USER_	DESIGNED -	REVISED -
H:\Jobs2015\20153000\CAD\Transportation\dgn\00\DIXXXXX-sht-XS47000.dgn		DRAWN -	REVISED -
	PLOT SCALE = 10.0000 ' / in.	CHECKED -	REVISED -
$MODELNAME$	PLOT DATE = 06/25/18	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED CROSS SECTIONS
IL ROUTE 47

SCALE: 1" = 10' | SHEET 107 OF 202 SHEETS | STA. 215+93.85 TO STA. 215+93.85

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
47				
		CONTRACT NO.		
	ILLINOIS	FED. AID PROJECT		



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

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

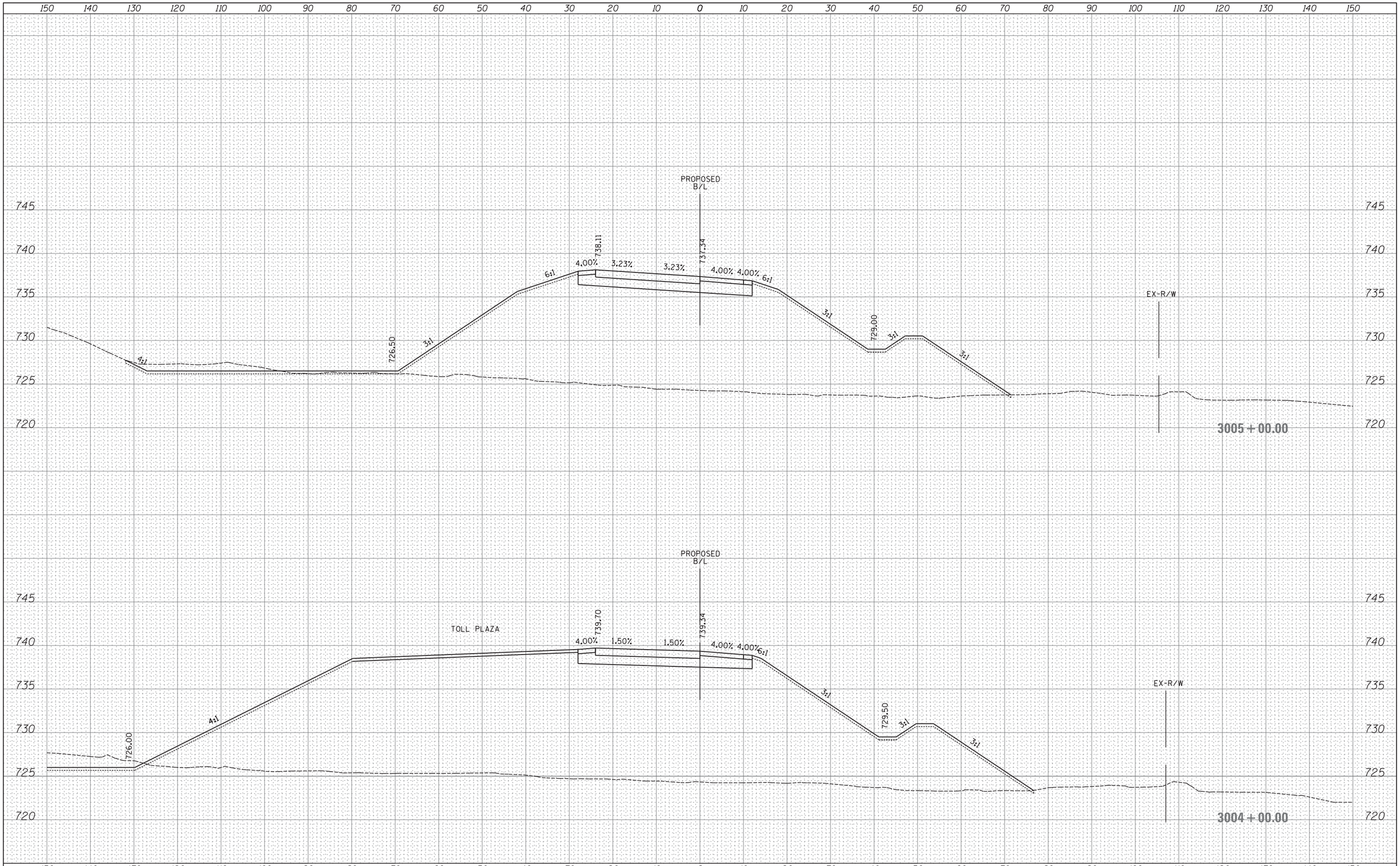
FILE NAME =	USER NAME = _USER_	DESIGNED -	REVISED -
H:\Jobs2015\20153000\CAD\Transportation\dgn\00\DIXXXXX-sht-XS_EBentranceramp.dgn		DRAWN -	REVISED -
	PLOT SCALE = 10.0000 ' / in.	CHECKED -	REVISED -
$MODELNAME$	PLOT DATE = 06/25/18	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED CROSS SECTIONS
EB ENTRANCE RAMP

SCALE: 1" = 10' | SHEET 108 OF 202 SHEETS | STA. 3002+00.00 TO STA. 3003+00.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
47				
		CONTRACT NO.		
		ILLINOIS FED. AID PROJECT		



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

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

FILE NAME =	USER NAME = _USER_	DESIGNED -	REVISED -
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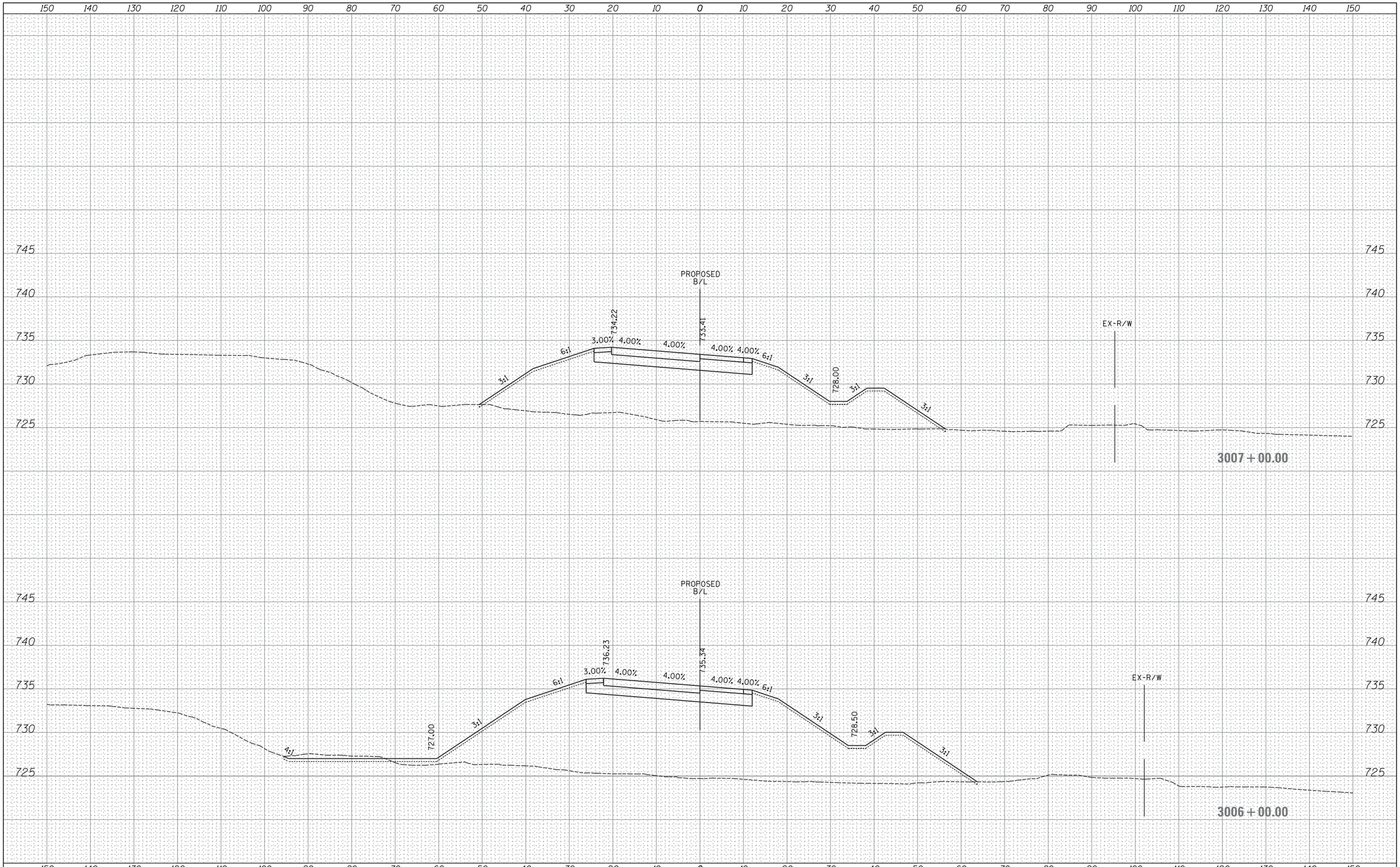
	PLOT SCALE = 10.0000 ' / in.	CHECKED -	REVISED -
$MODELNAME$	PLOT DATE = 06/25/18	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED CROSS SECTIONS
EB ENTRANCE RAMP

SCALE: 1" = 10' | SHEET 109 OF 202 SHEETS | STA. 3004+00.00 TO STA. 3005+00.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
47				
		CONTRACT NO.		
	ILLINOIS	FED. AID PROJECT		



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

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

FILE NAME =	USER NAME = _USER_	DESIGNED -	REVISED -
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	PLOT SCALE = 10.0000 ' / in.	CHECKED -	REVISED -
$MODELNAME$	PLOT DATE = 06/25/18	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

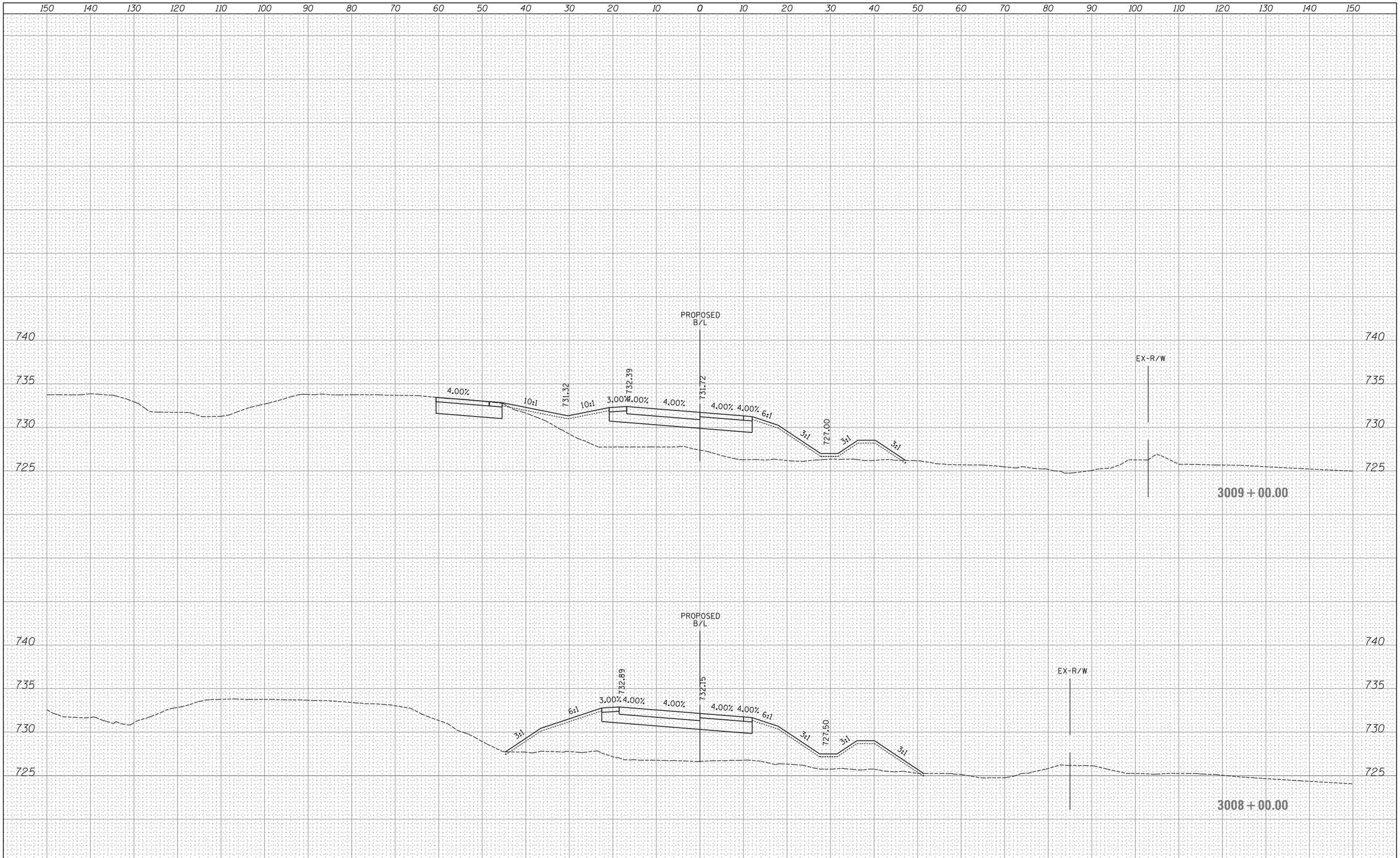
PROPOSED CROSS SECTIONS
EB ENTRANCE RAMP

SCALE: 1" = 10' | SHEET 110 OF 202 SHEETS | STA. 3006+00.00 TO STA. 3007+00.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
47				

CONTRACT NO.

ILLINOIS FED. AID PROJECT



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

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

FILE NAME = H:\Jobs2015\20153000\CAD\Transportation\dgn\00\DIXXXXX-sht-XS_EBentranceramp.dgn	USER NAME = _USER_	DESIGNED -	REVISED -
		DRAWN -	REVISED -
	PLOT SCALE = 10.0000 ' / in.	CHECKED -	REVISED -
$MODELNAME$	PLOT DATE = 06/25/18	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

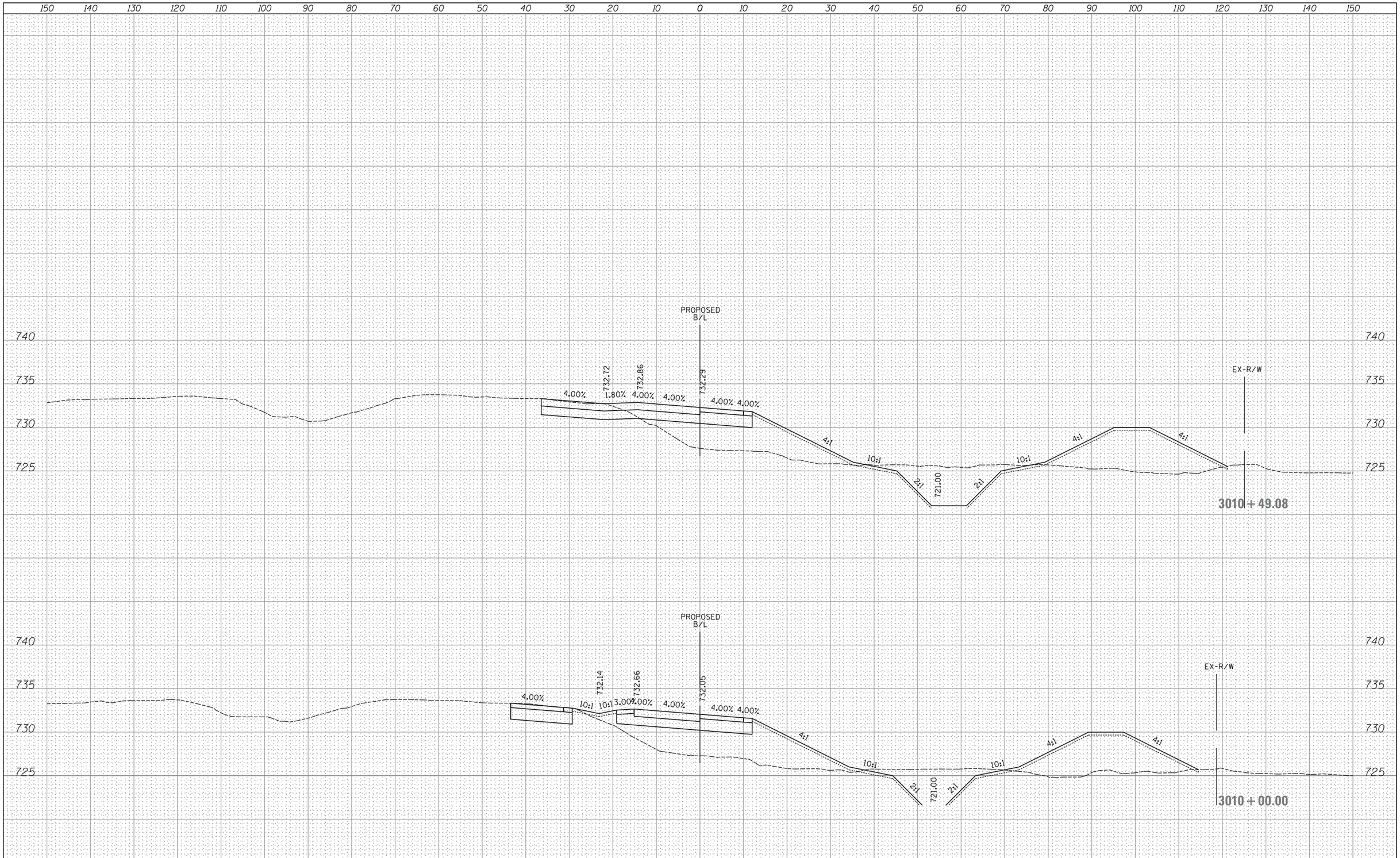
PROPOSED CROSS SECTIONS
EB ENTRANCE RAMP

SCALE: 1" = 10' | SHEET 111 OF 202 SHEETS | STA. 3008+00.00 TO STA. 3009+00.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
47				

CONTRACT NO.

ILLINOIS FED. AID PROJECT



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

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

FILE NAME = H:\Jobs2015\20153000\CAD\Transportation\dgn\00\DIXXXXX-sht-XS_EBentranceramp.dgn	USER NAME = _USER_	DESIGNED -	REVISED -
		DRAWN -	REVISED -
	PLOT SCALE = 10.0000 ' / in.	CHECKED -	REVISED -
$MODELNAME$	PLOT DATE = 06/25/18	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

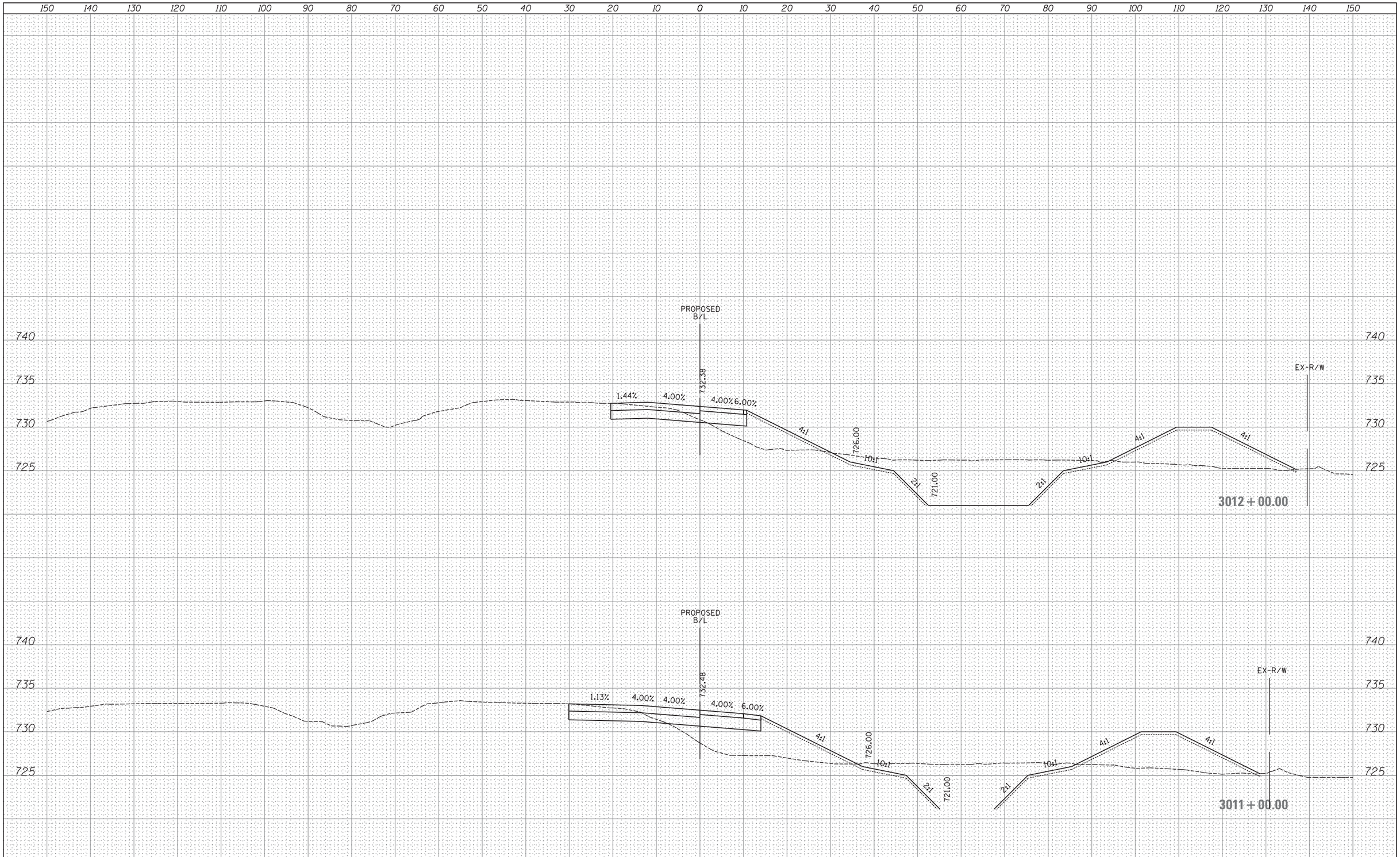
PROPOSED CROSS SECTIONS
EB ENTRANCE RAMP

SCALE: 1" = 10' | SHEET 112 OF 202 SHEETS | STA. 3010+00.00 TO STA. 3010+49.08

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
47				

CONTRACT NO.

ILLINOIS FED. AID PROJECT



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

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

FILE NAME =	USER NAME = _USER_	DESIGNED -	REVISED -
H:\Jobs2015\20153000\CAD\Transportation\dgn\00\D1XXXXX-sht-XS_EBentranceramp.dgn		DRAWN -	REVISED -
	PLOT SCALE = 10.0000 ' / in.	CHECKED -	REVISED -
$MODELNAME$	PLOT DATE = 06/25/18	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED CROSS SECTIONS
EB ENTRANCE RAMP

SCALE: 1" = 10' | SHEET 113 OF 202 SHEETS | STA. 3011+00.00 TO STA. 3012+00.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
47				

CONTRACT NO.

ILLINOIS FED. AID PROJECT

FILE NAME =	USER NAME = _USER_	DESIGNED -	REVISED -
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$MODELNAME$	PLOT DATE = 06/25/18	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

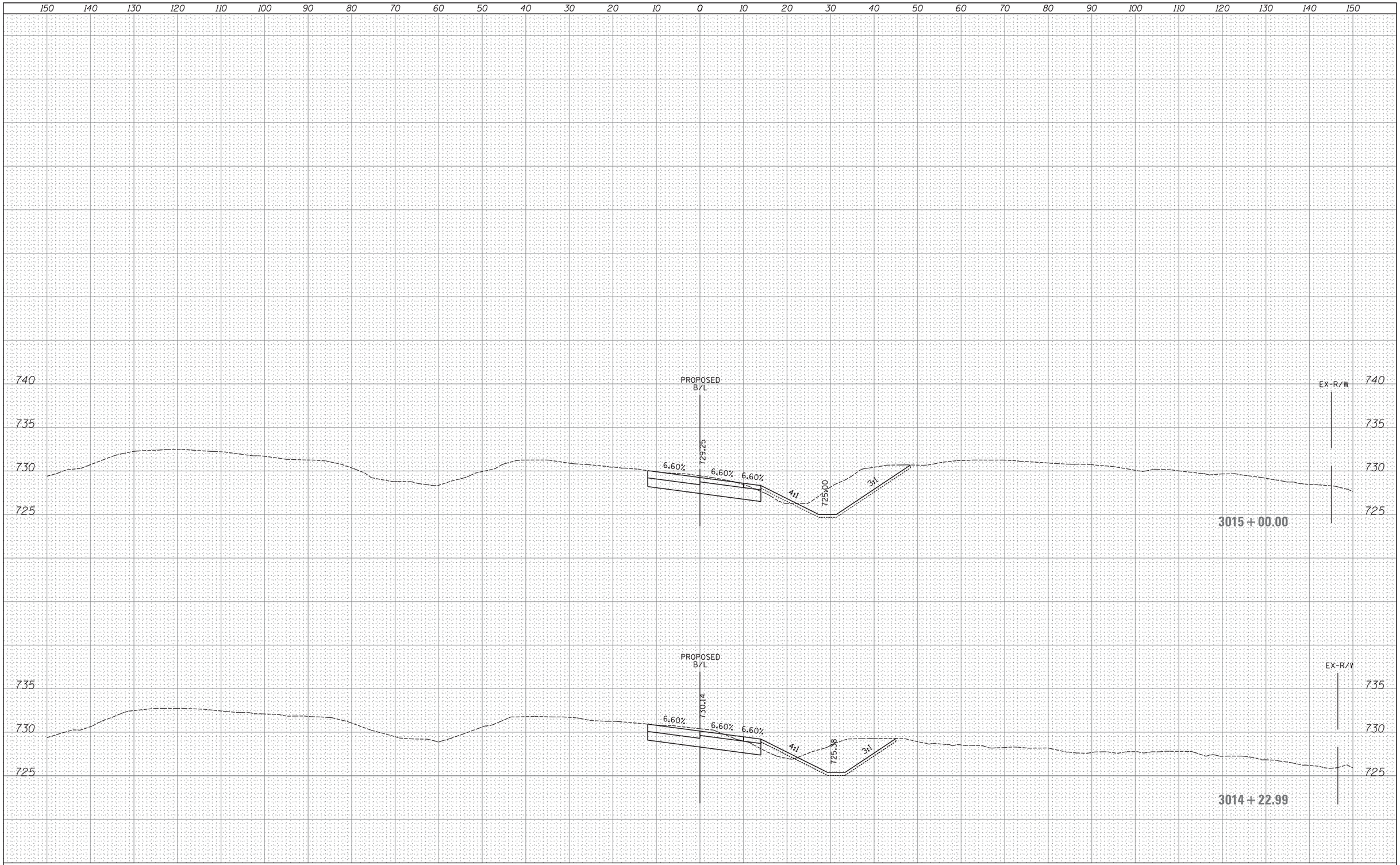
PROPOSED CROSS SECTIONS
EB ENTRANCE RAMP

SCALE: 1" = 10' | SHEET 114 OF 202 SHEETS | STA. 3013+00.00 TO STA. 3014+00.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
47				
		CONTRACT NO.		
		ILLINOIS FED. AID PROJECT		

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

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



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

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

FILE NAME =	USER NAME = _USER_	DESIGNED -	REVISED -
H:\Jobs2015\20153000\CAD\Transportation\dgn\00\DIXXXXX-sht-XS_EBentranceramp.dgn		DRAWN -	REVISED -
	PLOT SCALE = 10.0000 ' / in.	CHECKED -	REVISED -
$MODELNAME$	PLOT DATE = 06/25/18	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

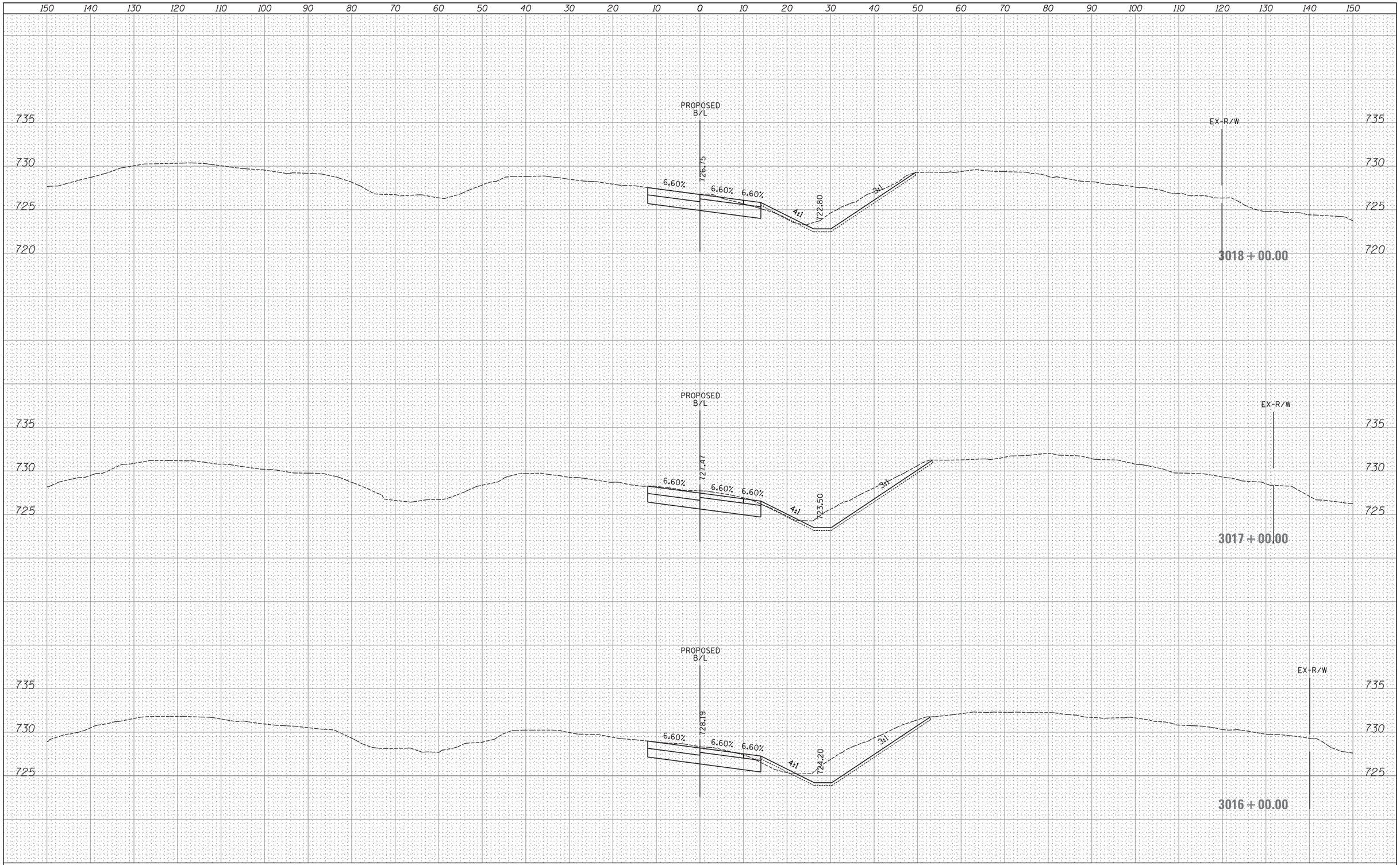
PROPOSED CROSS SECTIONS
EB ENTRANCE RAMP

SCALE: 1" = 10' | SHEET 115 OF 202 SHEETS | STA. 3014+22.99 TO STA. 3015+00.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
47				

CONTRACT NO.

ILLINOIS FED. AID PROJECT



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

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

FILE NAME = H:\Jobs2015\20153000\CAD\Transportation\dgn\00\DIXXXXX-sht-XS_EBentranceramp.dgn

$MODELNAME$

USER NAME = _USER_
PLOT SCALE = 10.0000 ' / in.
PLOT DATE = 06/25/18

DESIGNED -
DRAWN -
CHECKED -
DATE -

REVISED -
REVISED -
REVISED -
REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

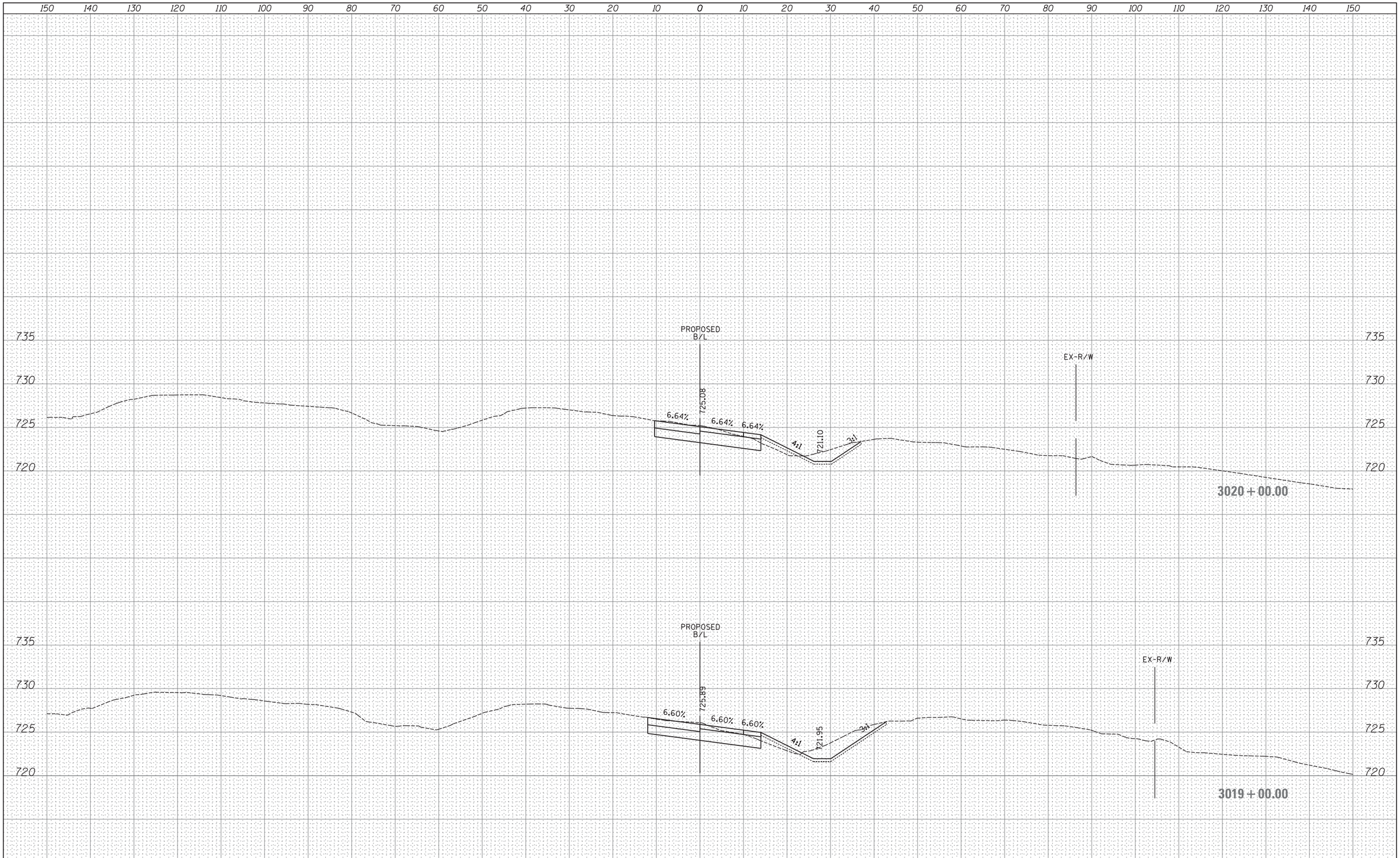
PROPOSED CROSS SECTIONS
EB ENTRANCE RAMP

SCALE: 1" = 10' | SHEET 116 OF 202 SHEETS | STA. 3016+00.00 TO STA. 3018+00.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
47				

CONTRACT NO.

ILLINOIS FED. AID PROJECT



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

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

FILE NAME = H:\Jobs2015\20153000\CAD\Transportation\dgn\00\DIXXXXX-sht-XS_EBentranceramp.dgn	USER NAME = _USER_	DESIGNED -	REVISED -
		DRAWN -	REVISED -
	PLOT SCALE = 10.0000 ' / in.	CHECKED -	REVISED -
$MODELNAME$	PLOT DATE = 06/25/18	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

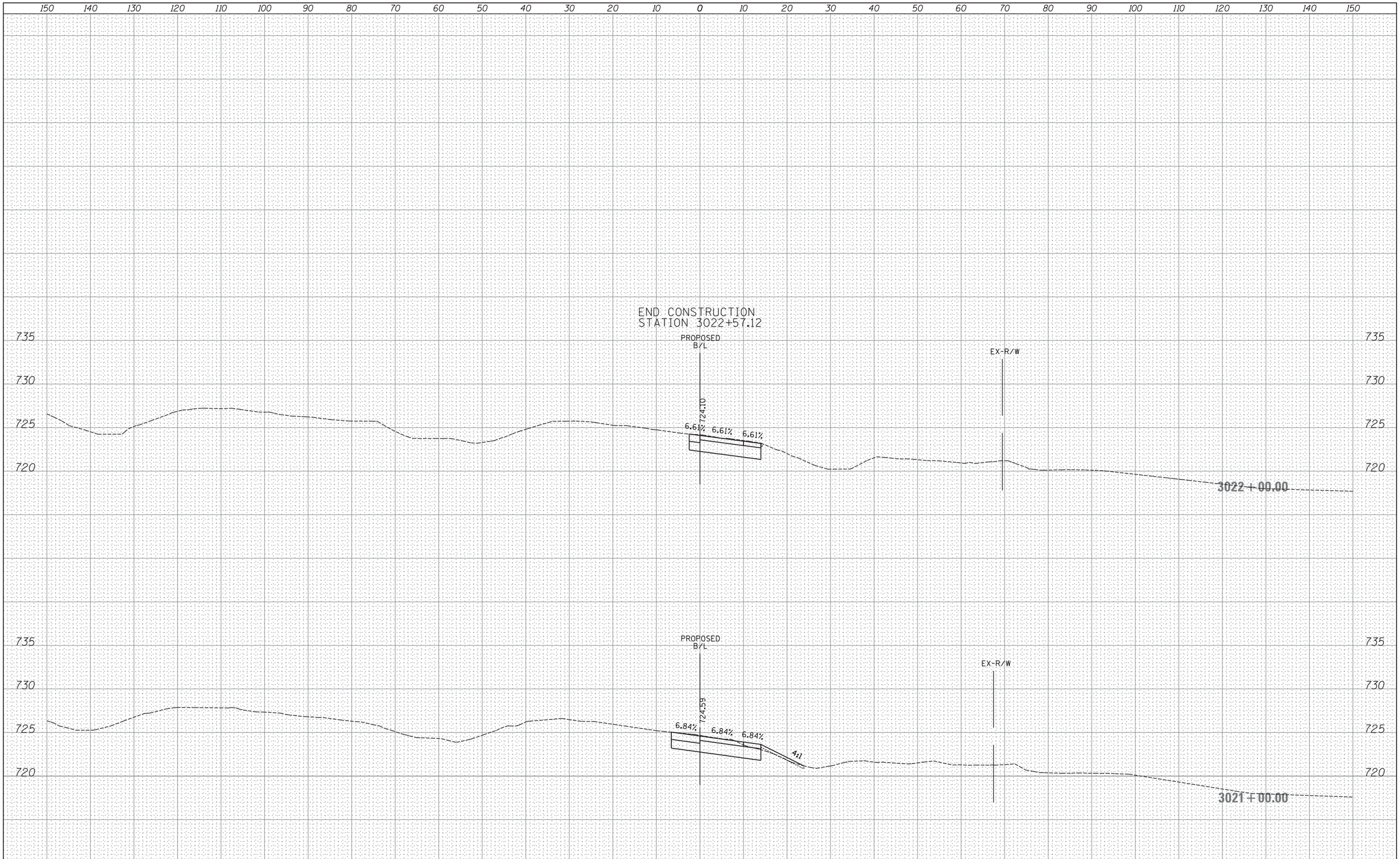
PROPOSED CROSS SECTIONS
EB ENTRANCE RAMP

SCALE: 1" = 10' | SHEET 117 OF 202 SHEETS | STA. 3019+00.00 TO STA. 3020+00.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
47				

CONTRACT NO.

ILLINOIS FED. AID PROJECT



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

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

FILE NAME =	USER NAME = _USER_	DESIGNED -	REVISED -
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	PLOT SCALE = 10.0000 ' / in.	CHECKED -	REVISED -
$MODELNAME$	PLOT DATE = 06/25/18	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

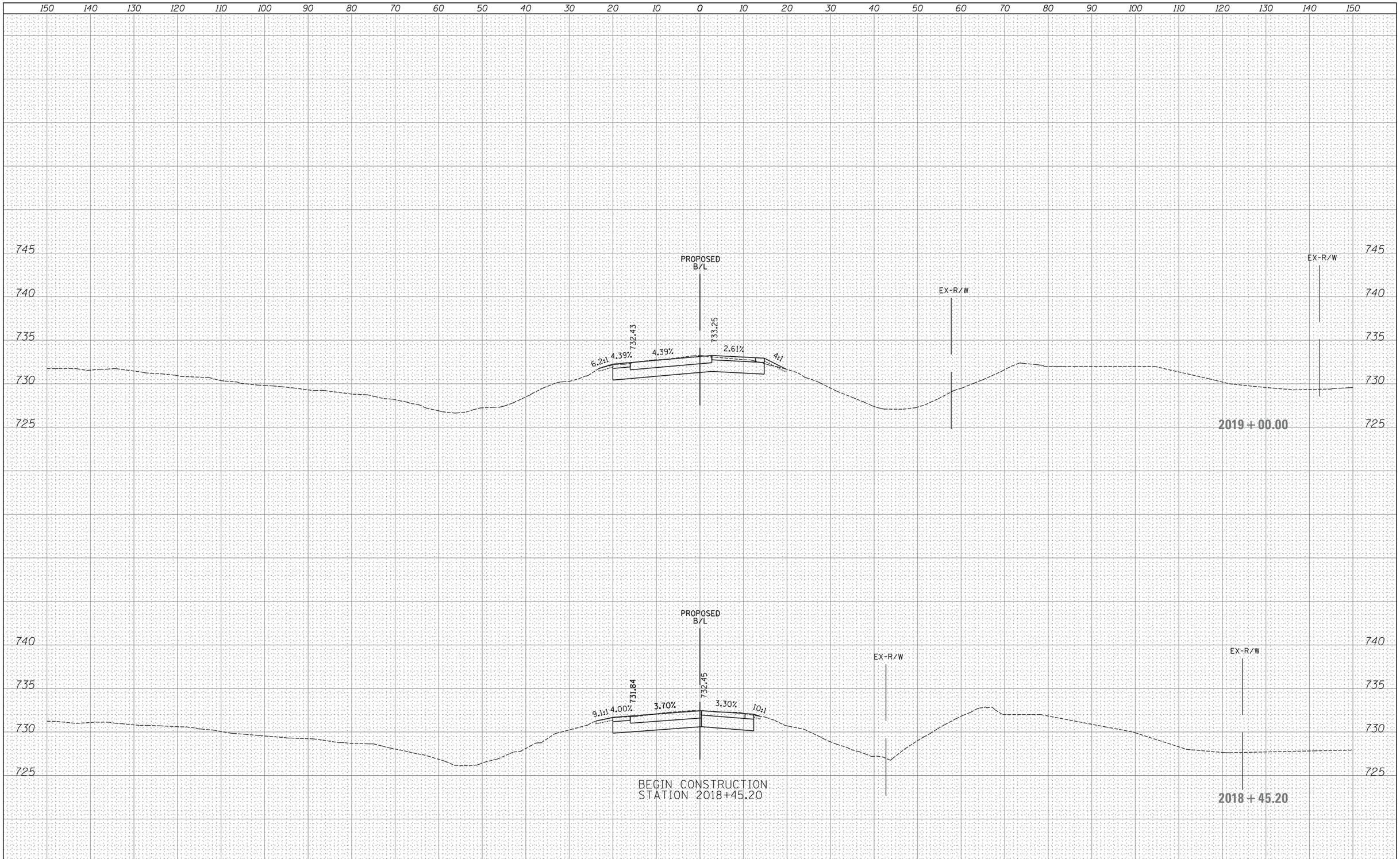
PROPOSED CROSS SECTIONS
EB ENTRANCE RAMP

SCALE: 1" = 10' | SHEET 118 OF 202 SHEETS | STA. 3021+00.00 TO STA. 3022+00.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
47				

CONTRACT NO.

ILLINOIS FED. AID PROJECT



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

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

FILE NAME =	USER NAME = _USER_	DESIGNED -	REVISED -
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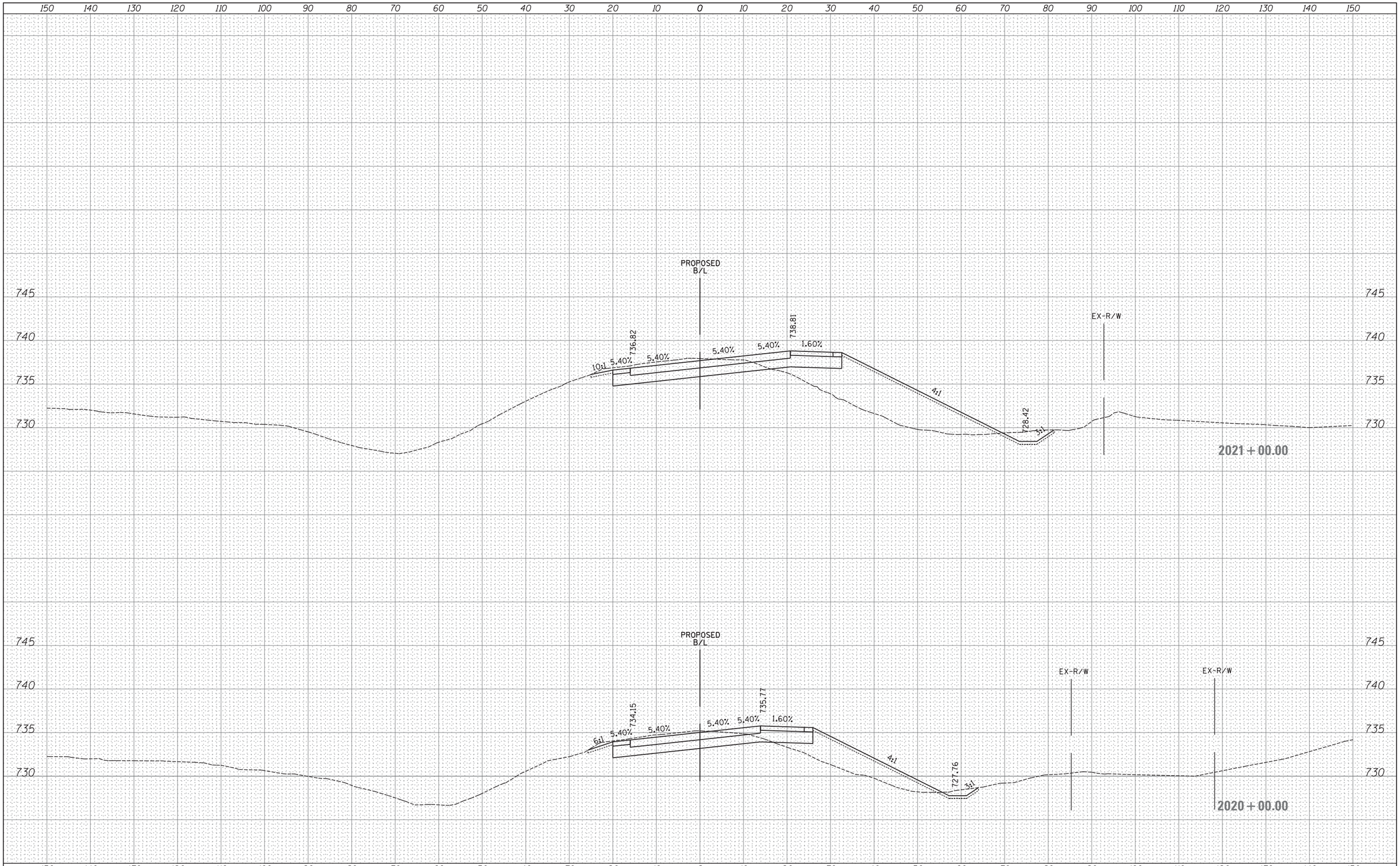
$MODELNAME$	PLOT DATE = 06/25/18	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED CROSS SECTIONS
EB EXIT RAMP

SCALE: 1" = 10' | SHEET 119 OF 202 SHEETS | STA. 2018+45.20 TO STA. 2019+00.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
47				
		CONTRACT NO.		
		ILLINOIS FED. AID PROJECT		



FILE NAME =	USER NAME = _USER_	DESIGNED -	REVISED -
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		CHECKED -	REVISED -
$MODELNAME$	PLOT DATE = 06/25/18	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED CROSS SECTIONS
EB EXIT RAMP

SCALE: 1" = 10' | SHEET 120 OF 202 SHEETS | STA. 2020+00.00 TO STA. 2021+00.00

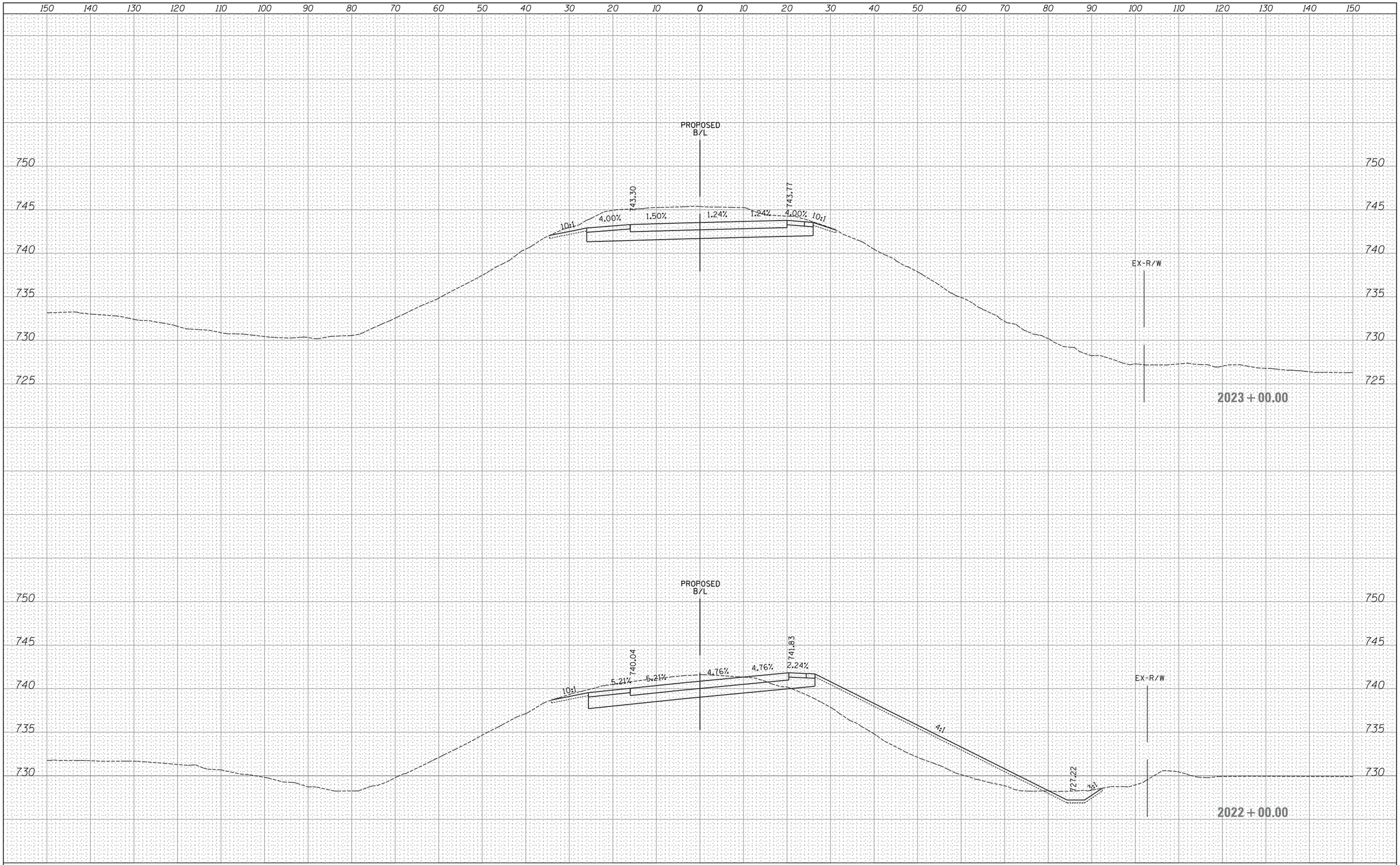
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
47				

CONTRACT NO.

ILLINOIS FED. AID PROJECT

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

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



FILE NAME =	USER NAME = _USER_	DESIGNED -	REVISED -
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	PLOT SCALE = 10.0000 ' / in.	CHECKED -	REVISED -
$MODELNAME$	PLOT DATE = 06/25/18	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED CROSS SECTIONS
EB EXIT RAMP

SCALE: 1" = 10' | SHEET 121 OF 202 SHEETS | STA. 2022+00.00 TO STA. 2023+00.00

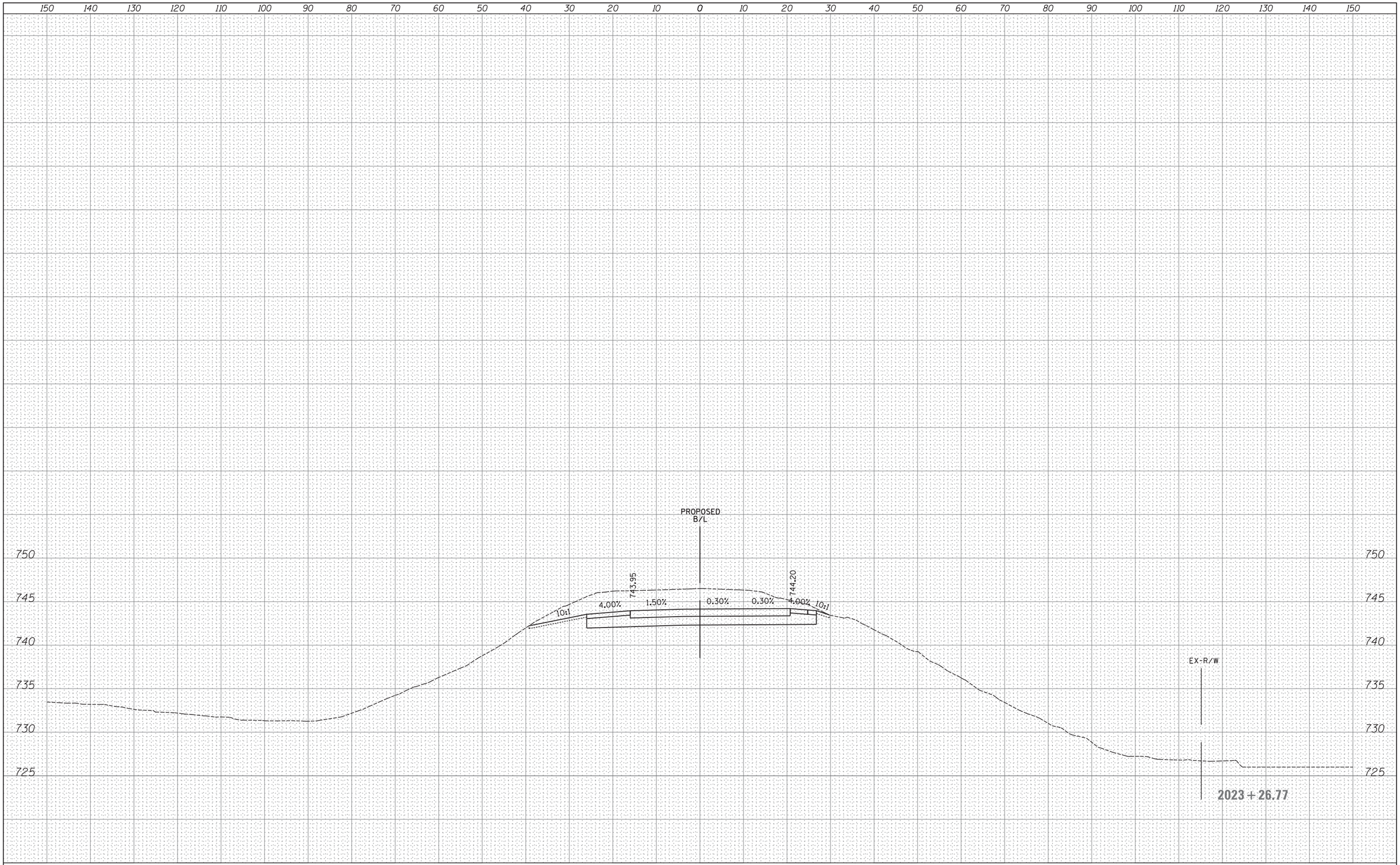
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
47				

CONTRACT NO.

ILLINOIS FED. AID PROJECT

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

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



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

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

FILE NAME =	USER NAME = _USER_	DESIGNED -	REVISED -
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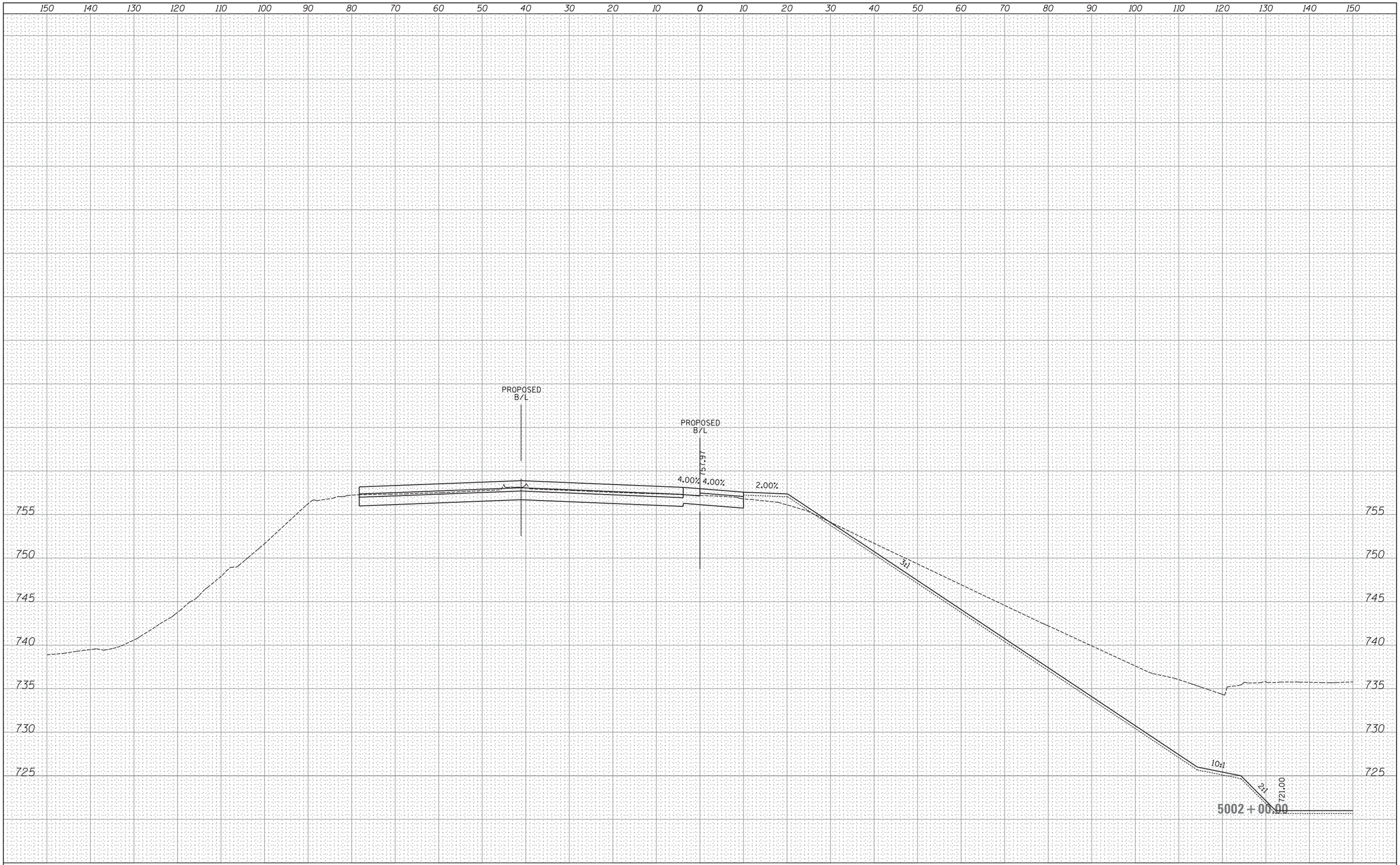
	PLOT SCALE = 10.0000 ' / in.	CHECKED -	REVISED -
$MODELNAME$	PLOT DATE = 06/25/18	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED CROSS SECTIONS
EB EXIT RAMP

SCALE: 1" = 10' | SHEET 122 OF 202 SHEETS | STA. 2023+26.77 TO STA. 2023+26.77

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
47				
		CONTRACT NO.		
		ILLINOIS FED. AID PROJECT		



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

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

FILE NAME =	USER NAME = _USER_	DESIGNED -	REVISED -
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	PLOT SCALE = 10.0000 ' / in.	CHECKED -	REVISED -
$MODELNAME$	PLOT DATE = 06/25/18	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

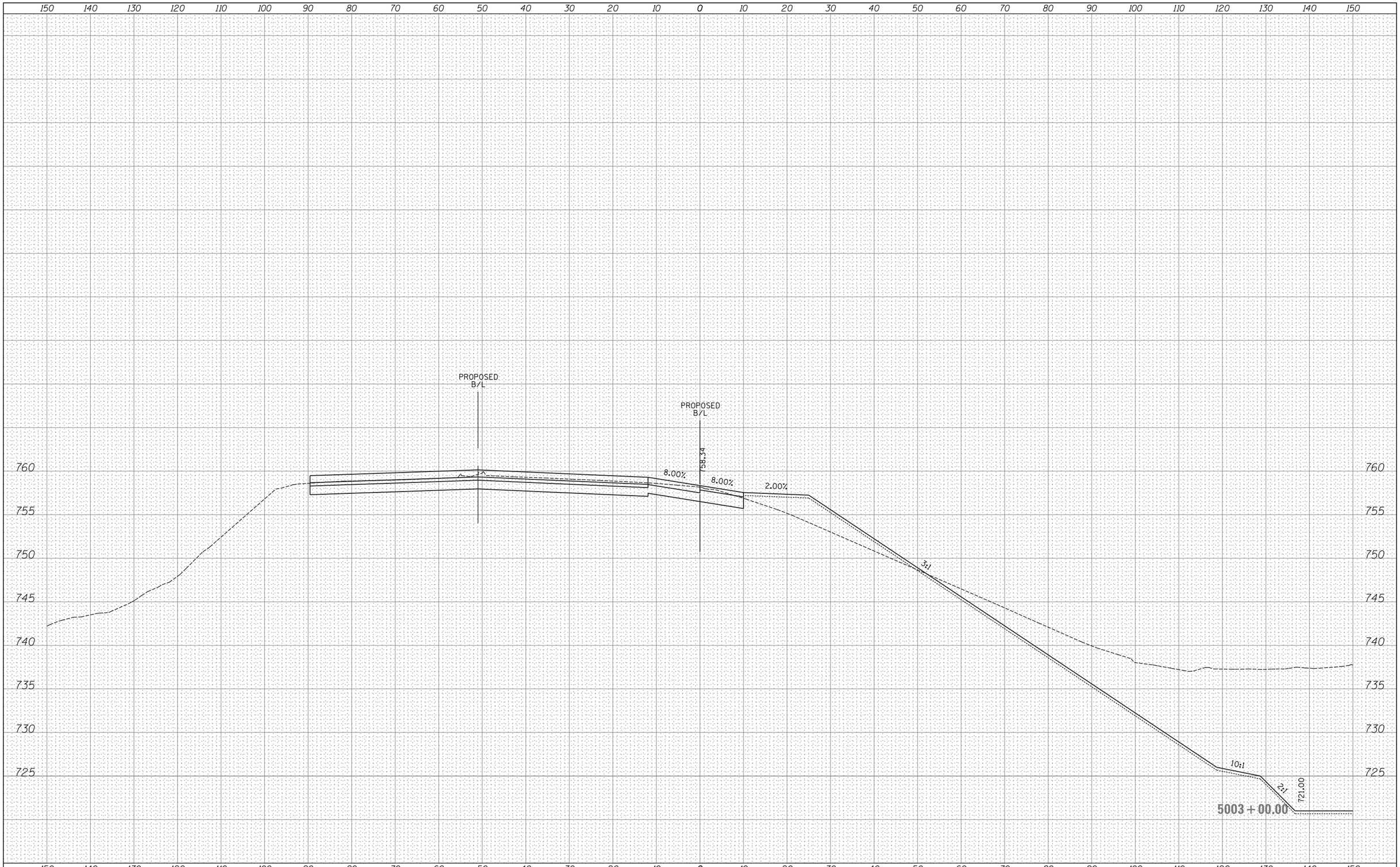
PROPOSED CROSS SECTIONS
WB ENTRANCE LOOP RAMP

SCALE: 1" = 10' | SHEET 123 OF 202 SHEETS | STA. 5002+00.00 TO STA. 5002+00.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
47				

CONTRACT NO.

ILLINOIS FED. AID PROJECT



FILE NAME =	USER NAME = _USER_	DESIGNED -	REVISED -
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	PLOT SCALE = 10.0000 ' / in.	CHECKED -	REVISED -
$MODELNAME$	PLOT DATE = 06/25/18	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED CROSS SECTIONS
WB ENTRANCE LOOP RAMP

SCALE: 1" = 10' | SHEET 124 OF 202 SHEETS | STA. 5003+00.00 TO STA. 5003+00.00

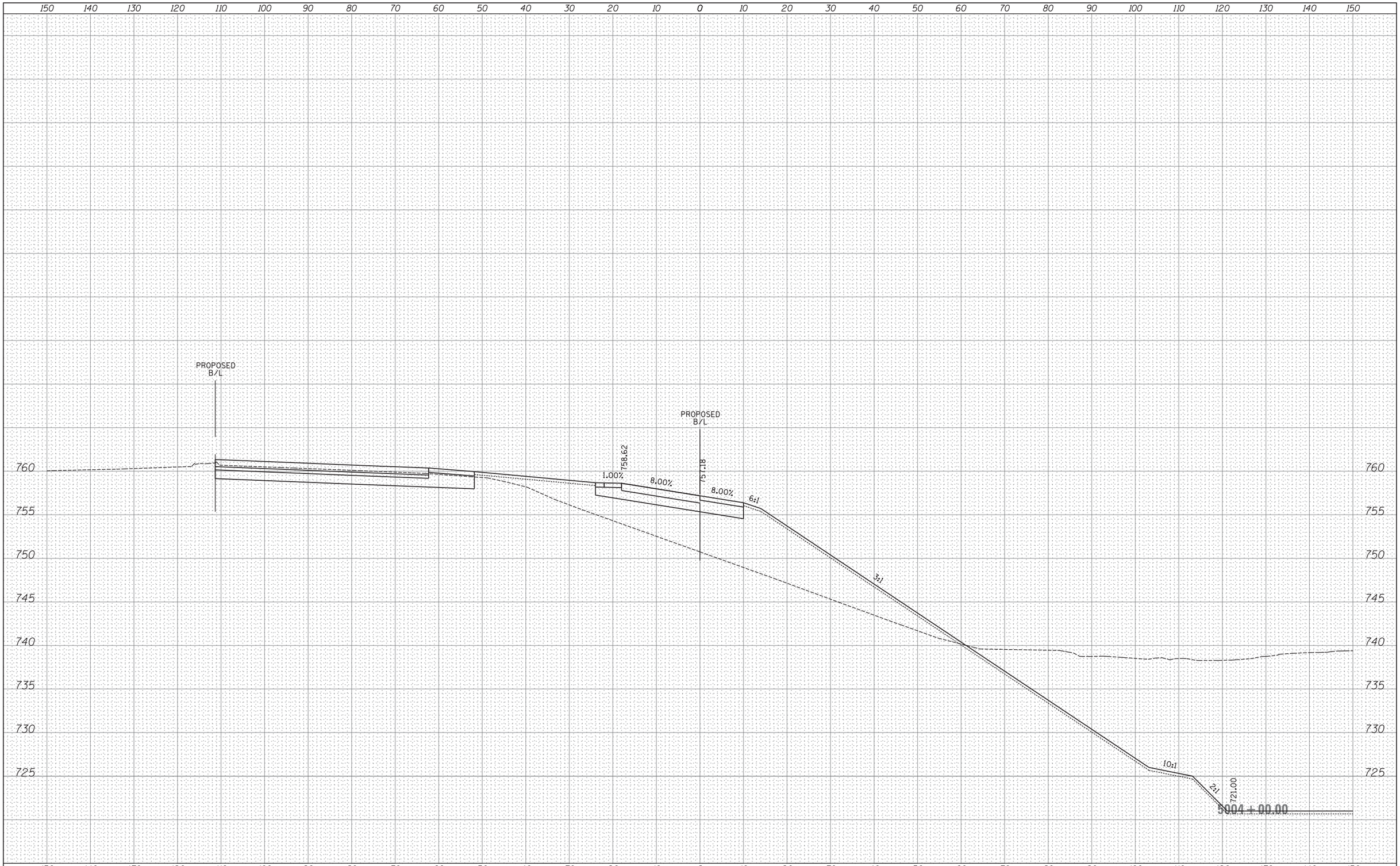
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
47				

CONTRACT NO.

ILLINOIS FED. AID PROJECT

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

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



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

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

FILE NAME =	USER NAME = _USER_	DESIGNED -	REVISED -
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	PLOT SCALE = 10.0000 ' / in.	CHECKED -	REVISED -
$MODELNAME$	PLOT DATE = 06/25/18	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED CROSS SECTIONS
WB ENTRANCE LOOP RAMP

SCALE: 1" = 10' | SHEET 125 OF 202 SHEETS | STA. 5004+00.00 TO STA. 5004+00.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
47				
		CONTRACT NO.		
		ILLINOIS FED. AID PROJECT		

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

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

FILE NAME =	USER NAME = _USER_	DESIGNED -	REVISED -
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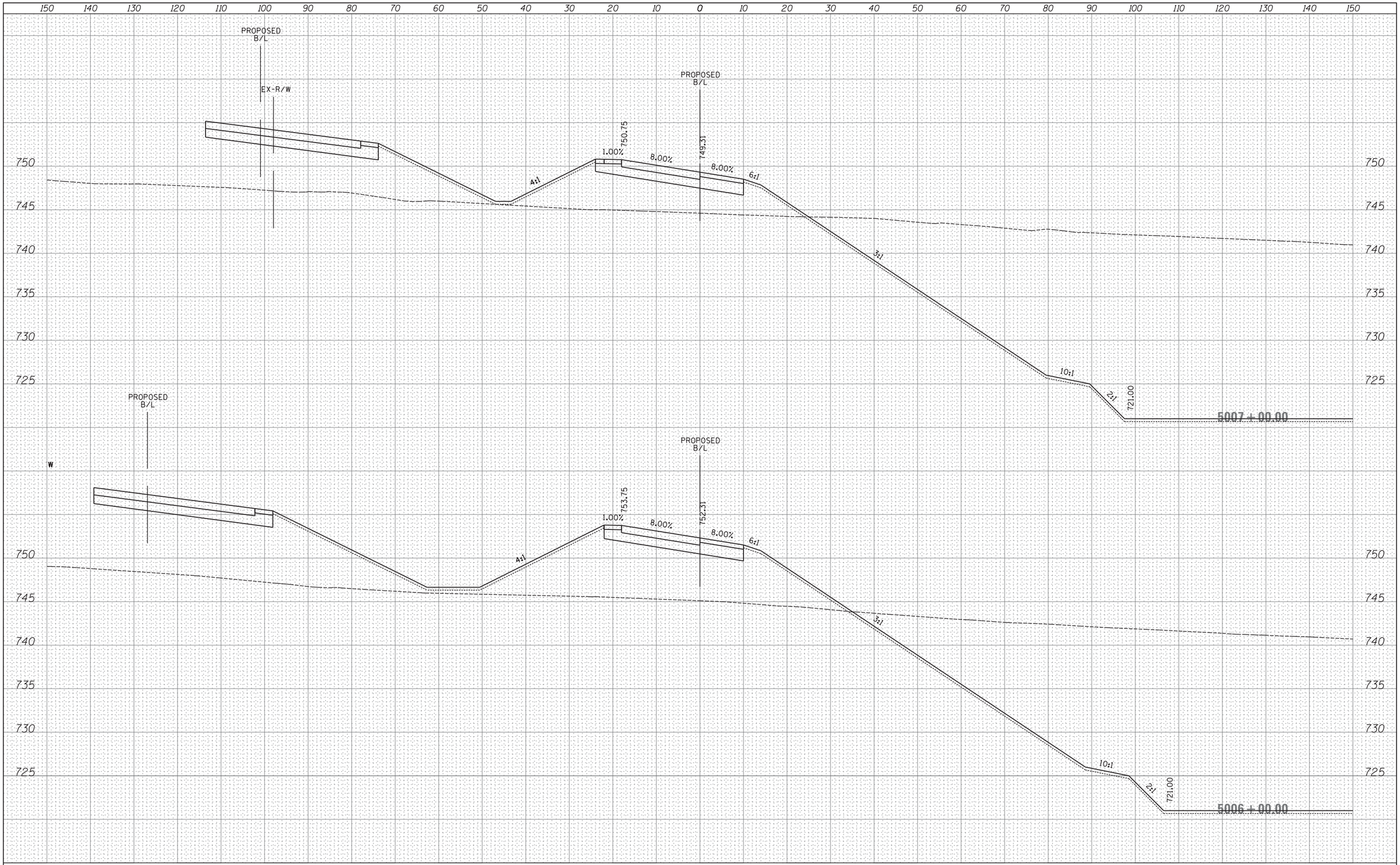
	PLOT SCALE = 10.0000 ' / in.	CHECKED -	REVISED -
$MODELNAME$	PLOT DATE = 06/25/18	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED CROSS SECTIONS
WB ENTRANCE LOOP RAMP

SCALE: 1" = 10' | SHEET 126 OF 202 SHEETS | STA. 5005+00.00 TO STA. 5005+00.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
47				
		CONTRACT NO.		
		ILLINOIS FED. AID PROJECT		



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$MODELNAME$	PLOT DATE = 06/25/18	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED CROSS SECTIONS
WB ENTRANCE LOOP RAMP

SCALE: 1" = 10' | SHEET 127 OF 202 SHEETS | STA. 5006+00.00 TO STA. 5007+00.00

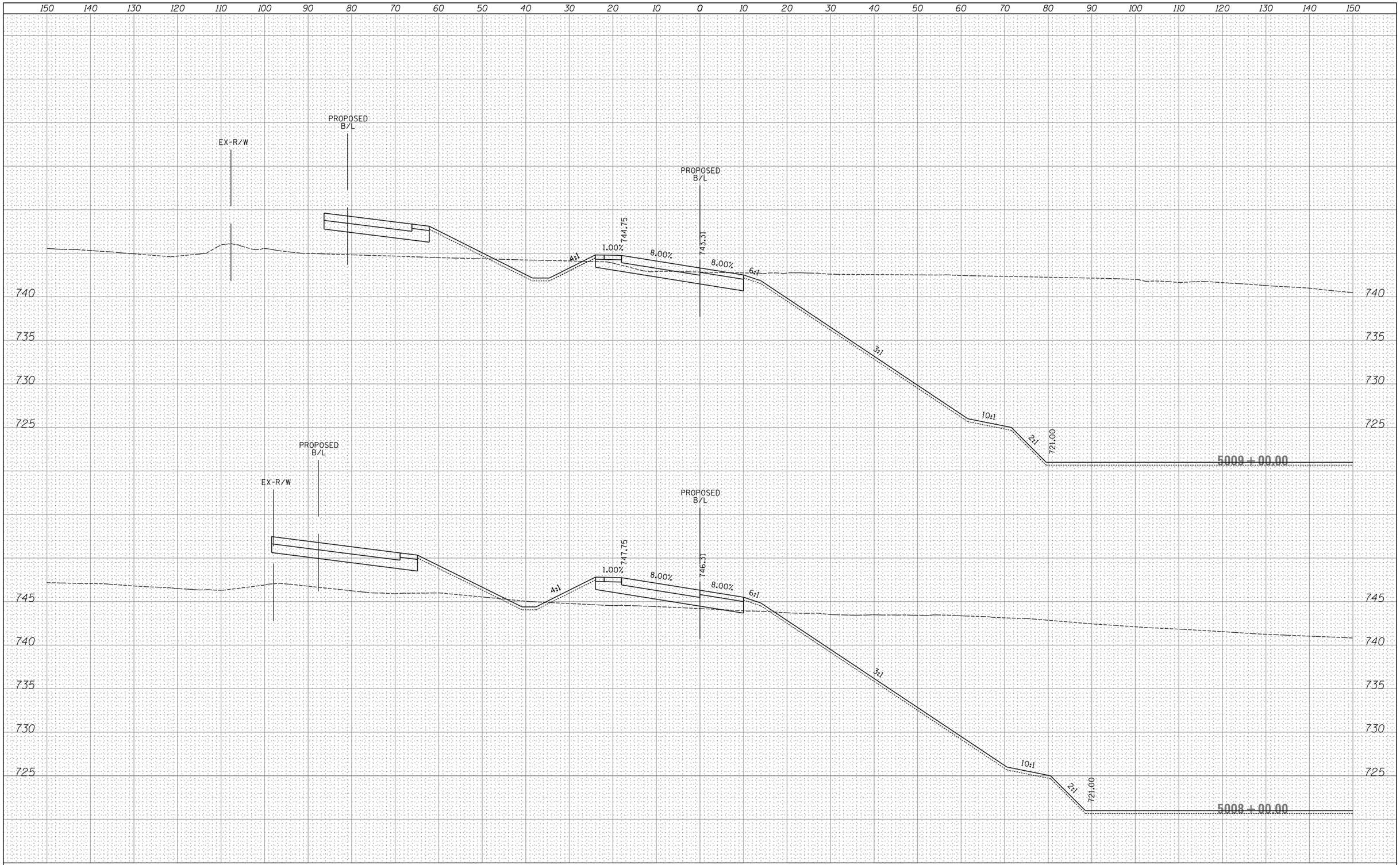
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
47				

CONTRACT NO.

ILLINOIS FED. AID PROJECT

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

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



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

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

FILE NAME =	USER NAME = _USER_	DESIGNED -	REVISED -
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	PLOT SCALE = 10.0000 ' / in.	CHECKED -	REVISED -
$MODELNAME$	PLOT DATE = 06/25/18	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED CROSS SECTIONS
WB ENTRANCE LOOP RAMP

SCALE: 1" = 10' | SHEET 128 OF 202 SHEETS | STA. 5008+00.00 TO STA. 5009+00.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
47				

CONTRACT NO.

ILLINOIS FED. AID PROJECT

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

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

FILE NAME =
H:\Jobs2015\20153000\CAD\Transportation\dgn\00\DIXXXXX-sht-XS_wbentrancerampl.dgn
$MODELNAME$

USER NAME = _USER_
PLOT SCALE = 10.0000 ' / in.
PLOT DATE = 06/25/18

DESIGNED -
DRAWN -
CHECKED -
DATE -

REVISED -
REVISED -
REVISED -
REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

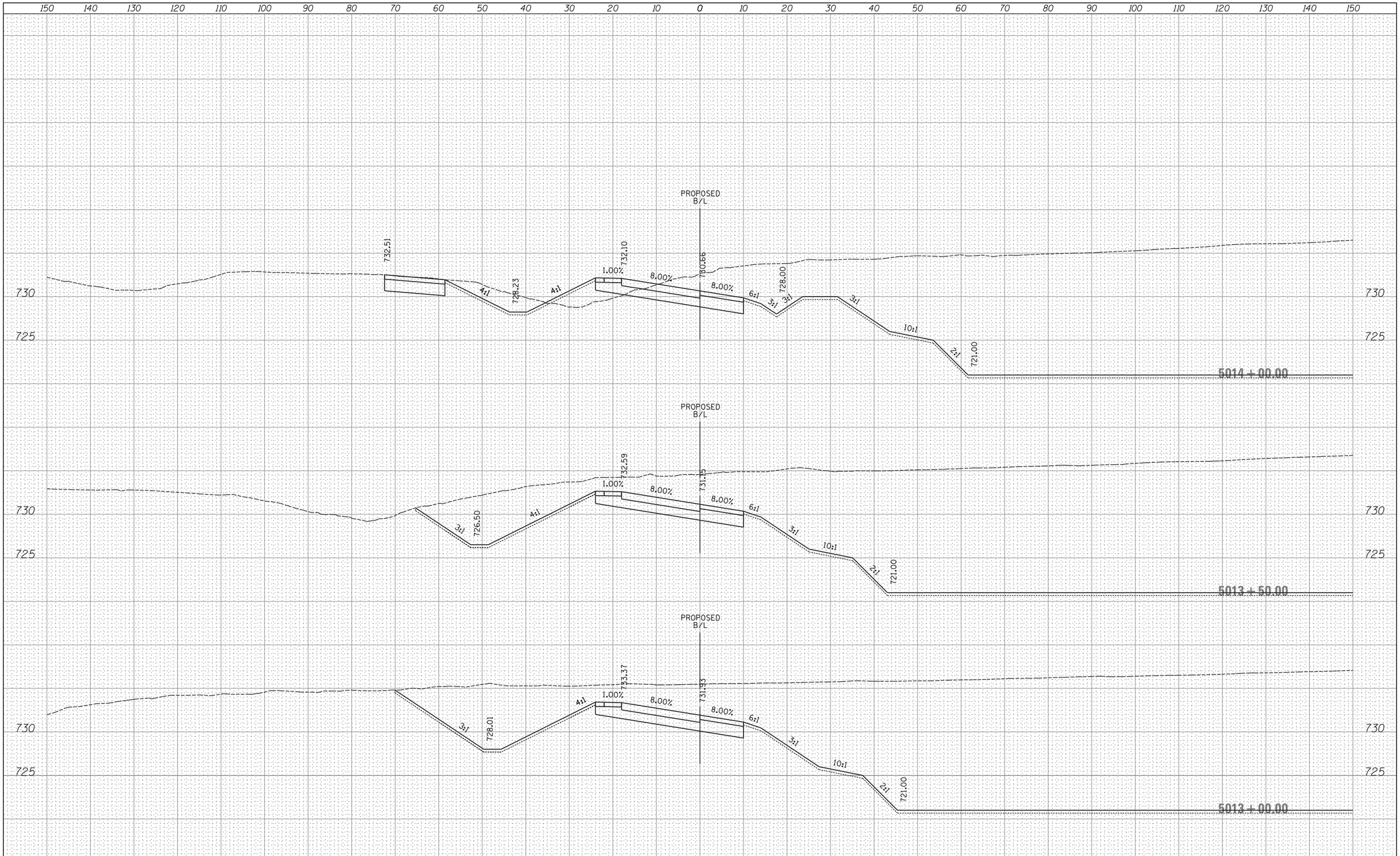
PROPOSED CROSS SECTIONS
WB ENTRANCE LOOP RAMP

SCALE: 1" = 10' | SHEET 129 OF 202 SHEETS | STA. 5010+00.00 TO STA. 5012+00.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
47				

CONTRACT NO.

ILLINOIS FED. AID PROJECT



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

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

FILE NAME =	USER NAME = _USER_	DESIGNED -	REVISED -
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$MODELNAME$	PLOT DATE = 06/25/18	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED CROSS SECTIONS
WB ENTRANCE LOOP RAMP

SCALE: 1" = 10' | SHEET 130 OF 202 SHEETS | STA. 5013+00.00 TO STA. 5014+00.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
47				

CONTRACT NO.

ILLINOIS FED. AID PROJECT

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

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

FILE NAME = H:\Jobs2015\20153000\CAD\Transportation\dgn\00\DIXXXXX-sht-XS_wbentranceramp1.dgn	USER NAME = _USER_	DESIGNED -	REVISED -
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$MODELNAME$	PLOT DATE = 06/25/18	CHECKED -	REVISED -
		DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED CROSS SECTIONS
WB ENTRANCE LOOP RAMP

SCALE: 1" = 10' | SHEET 131 OF 202 SHEETS | STA. 5014+52.39 TO STA. 5015+00.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
47				
		CONTRACT NO.		
		ILLINOIS FED. AID PROJECT		

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

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

FILE NAME = H:\Jobs2015\20153000\CAD\Transportation\dgn\00\DIXXXXX-sht-XS_wbentranceampl.dgn	USER NAME = _USER_	DESIGNED -	REVISED -
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$MODELNAME$	PLOT DATE = 06/25/18	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

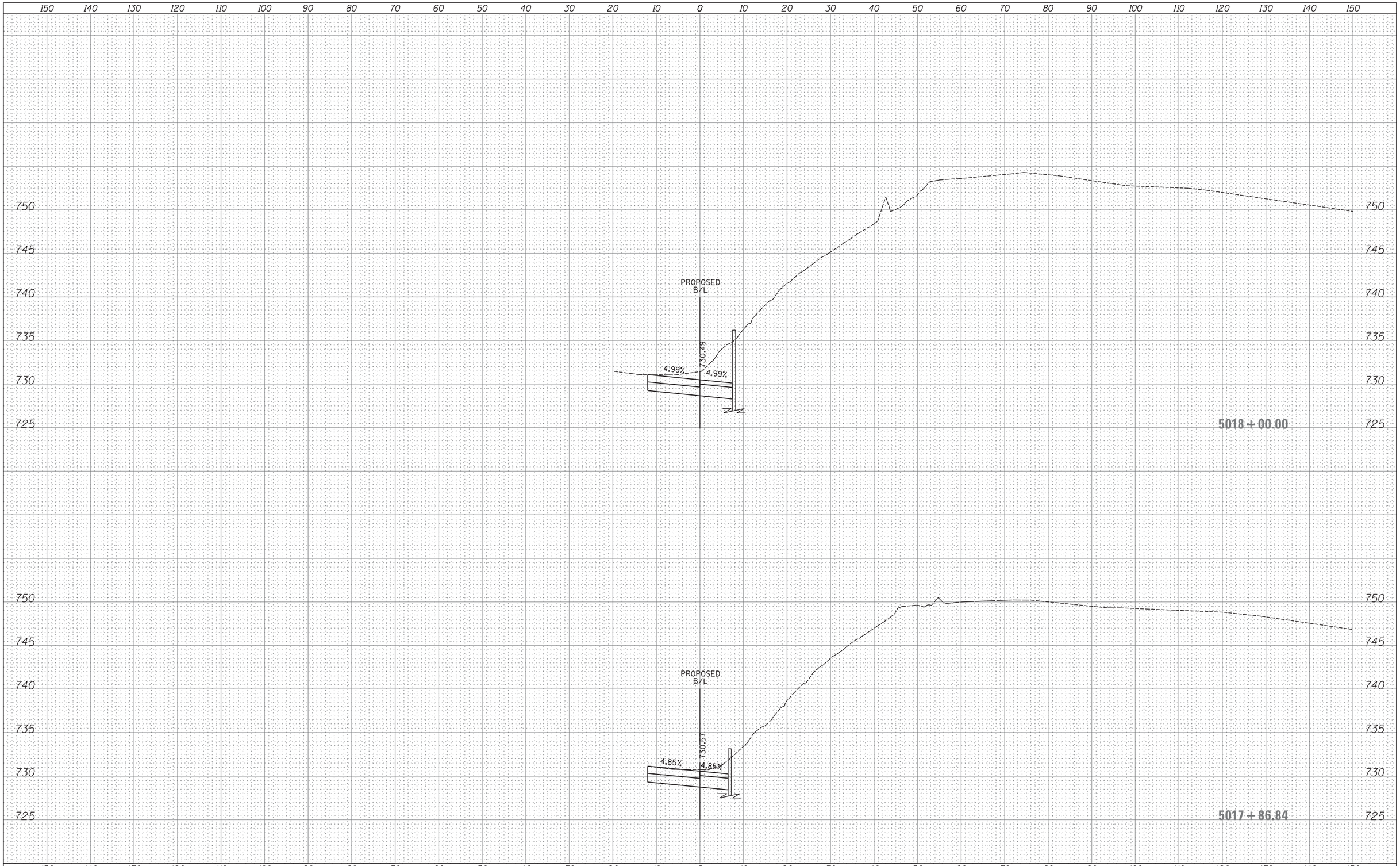
PROPOSED CROSS SECTIONS
WB ENTRANCE LOOP RAMP

SCALE: 1" = 10' | SHEET 132 OF 202 SHEETS | STA. 5016+00.00 TO STA. 5017+00.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
47				

CONTRACT NO.

ILLINOIS FED. AID PROJECT



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

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

FILE NAME =	USER NAME = _USER_	DESIGNED -	REVISED -
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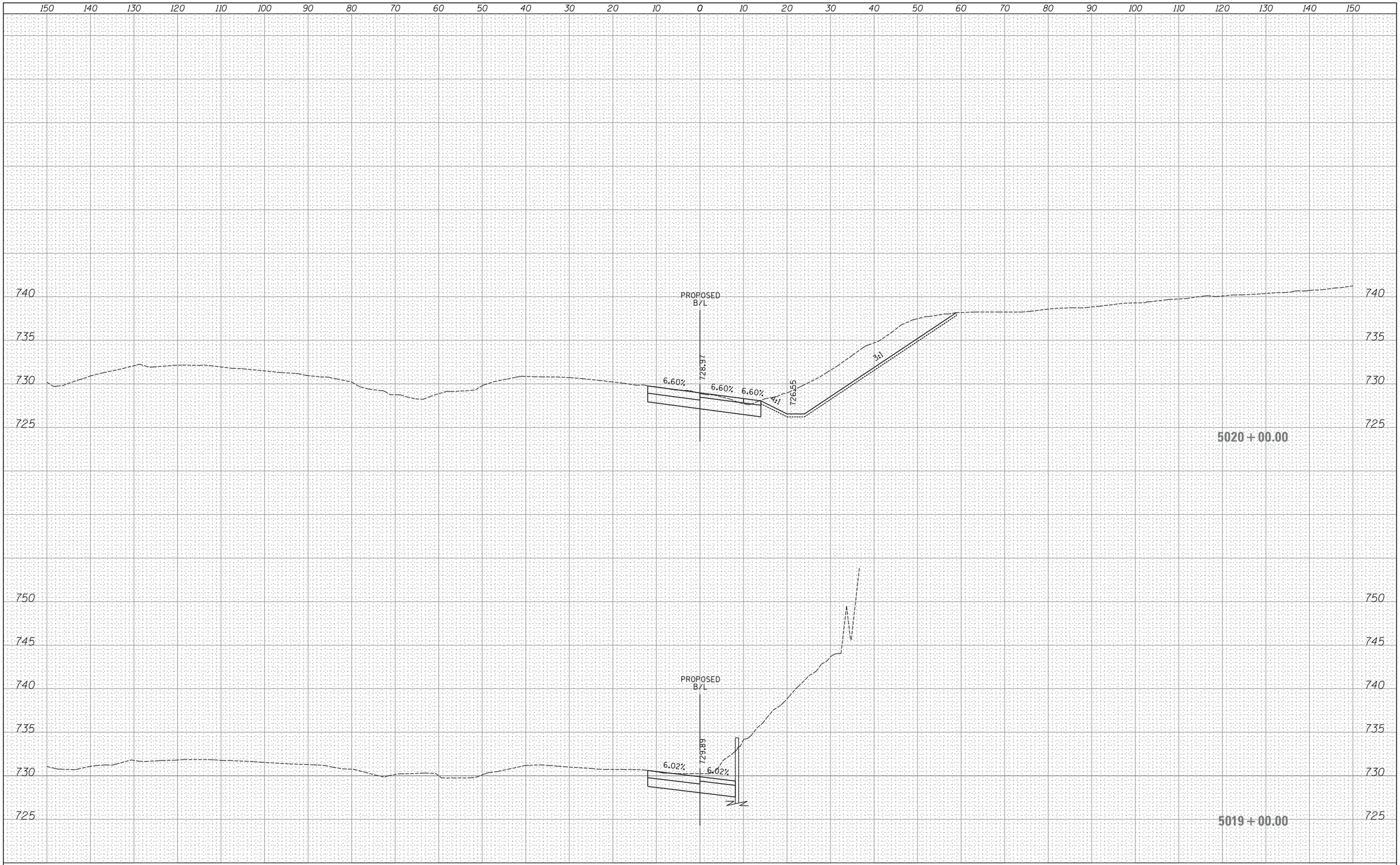
	PLOT SCALE = 10.0000 ' / in.	CHECKED -	REVISED -
$MODELNAME$	PLOT DATE = 06/25/18	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED CROSS SECTIONS
WB ENTRANCE LOOP RAMP

SCALE: 1" = 10' | SHEET 133 OF 202 SHEETS | STA. 5017+86.84 TO STA. 5018+00.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
47				
		CONTRACT NO.		
		ILLINOIS FED. AID PROJECT		



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

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

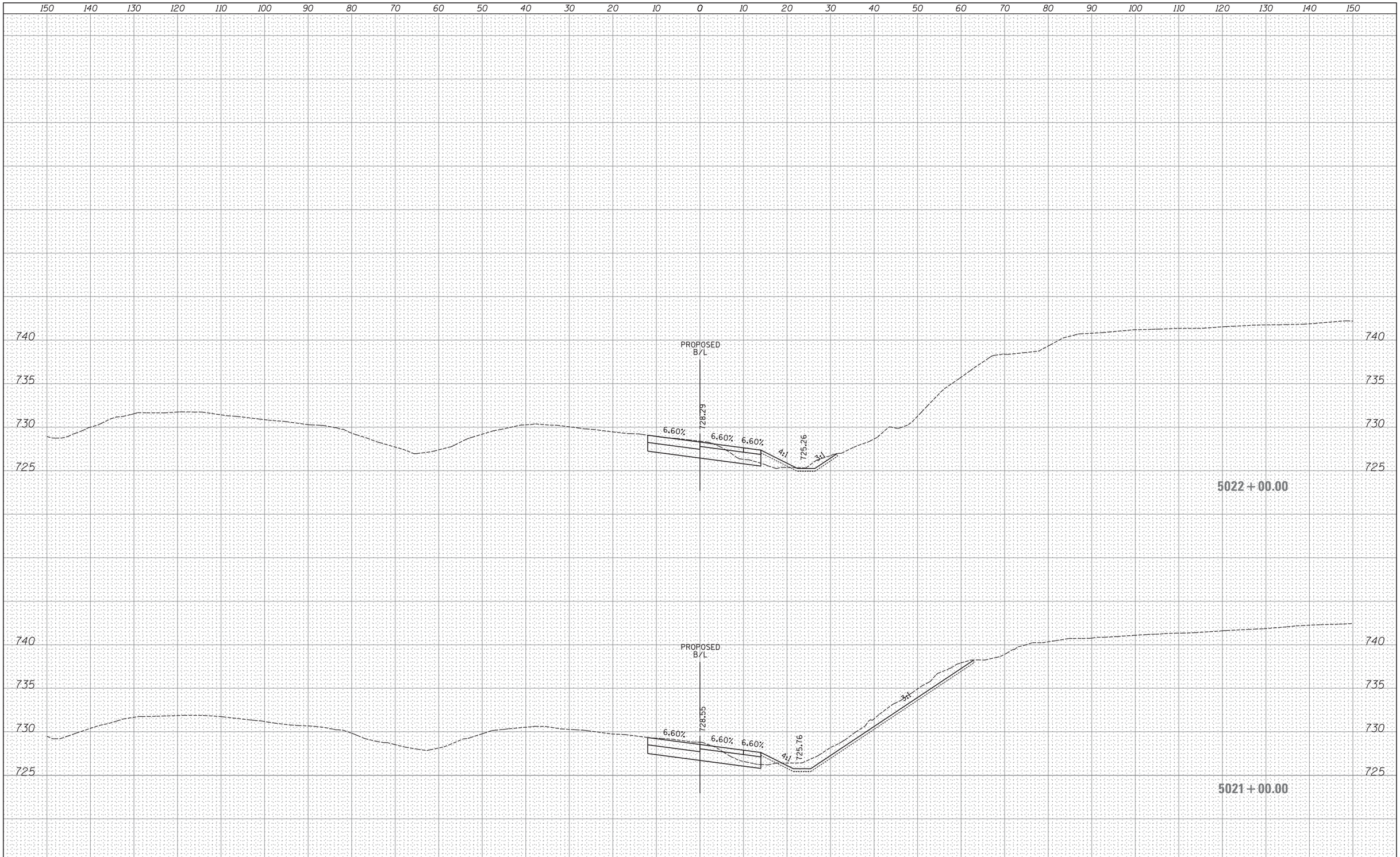
FILE NAME =	USER NAME = _USER_	DESIGNED -	REVISED -
H:\Jobs2015\20153000\CAD\Transportation\dgn\00\DIXXXXX-sht-XS_wbentrancerampl.dgn		DRAWN -	REVISED -
	PLOT SCALE = 10.0000 ' / in.	CHECKED -	REVISED -
$MODELNAME$	PLOT DATE = 06/25/18	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED CROSS SECTIONS
WB ENTRANCE LOOP RAMP

SCALE: 1" = 10' | SHEET 134 OF 202 SHEETS | STA. 5019+00.00 TO STA. 5020+00.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
47				
		CONTRACT NO.		
	ILLINOIS	FED. AID PROJECT		



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

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

FILE NAME =	USER NAME = _USER_	DESIGNED -	REVISED -
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	PLOT SCALE = 10.0000 ' / in.	CHECKED -	REVISED -
$MODELNAME$	PLOT DATE = 06/25/18	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

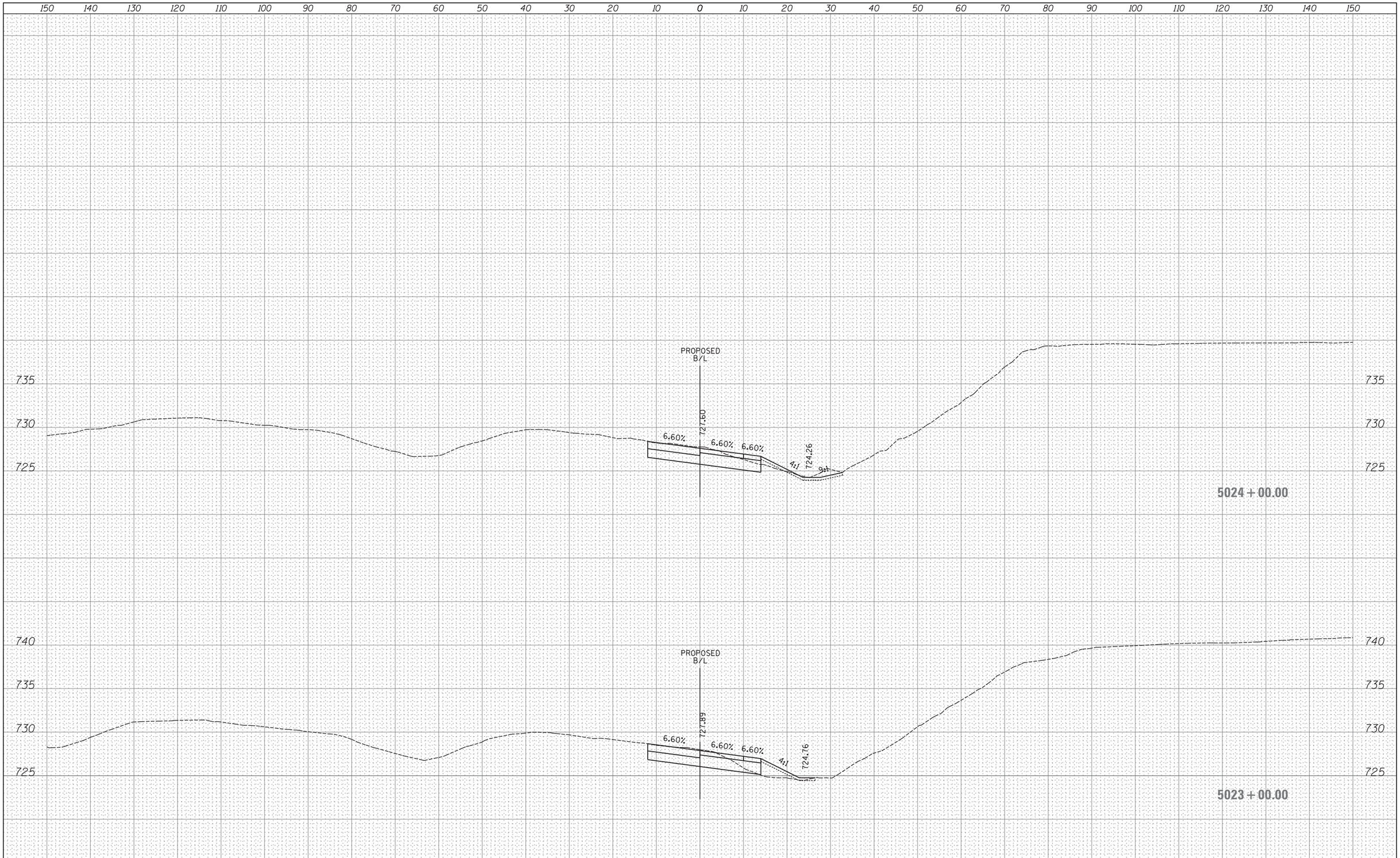
PROPOSED CROSS SECTIONS
WB ENTRANCE LOOP RAMP

SCALE: 1" = 10' | SHEET 135 OF 202 SHEETS | STA. 5021+00.00 TO STA. 5022+00.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
47				

CONTRACT NO.

ILLINOIS | FED. AID PROJECT



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

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

FILE NAME = H:\Jobs2015\20153000\CAD\Transportation\dgn\00\DIXXXXX-sht-XS_wbentranceramp1.dgn	USER NAME = _USER_	DESIGNED -	REVISED -
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$MODELNAME$	PLOT DATE = 06/25/18	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

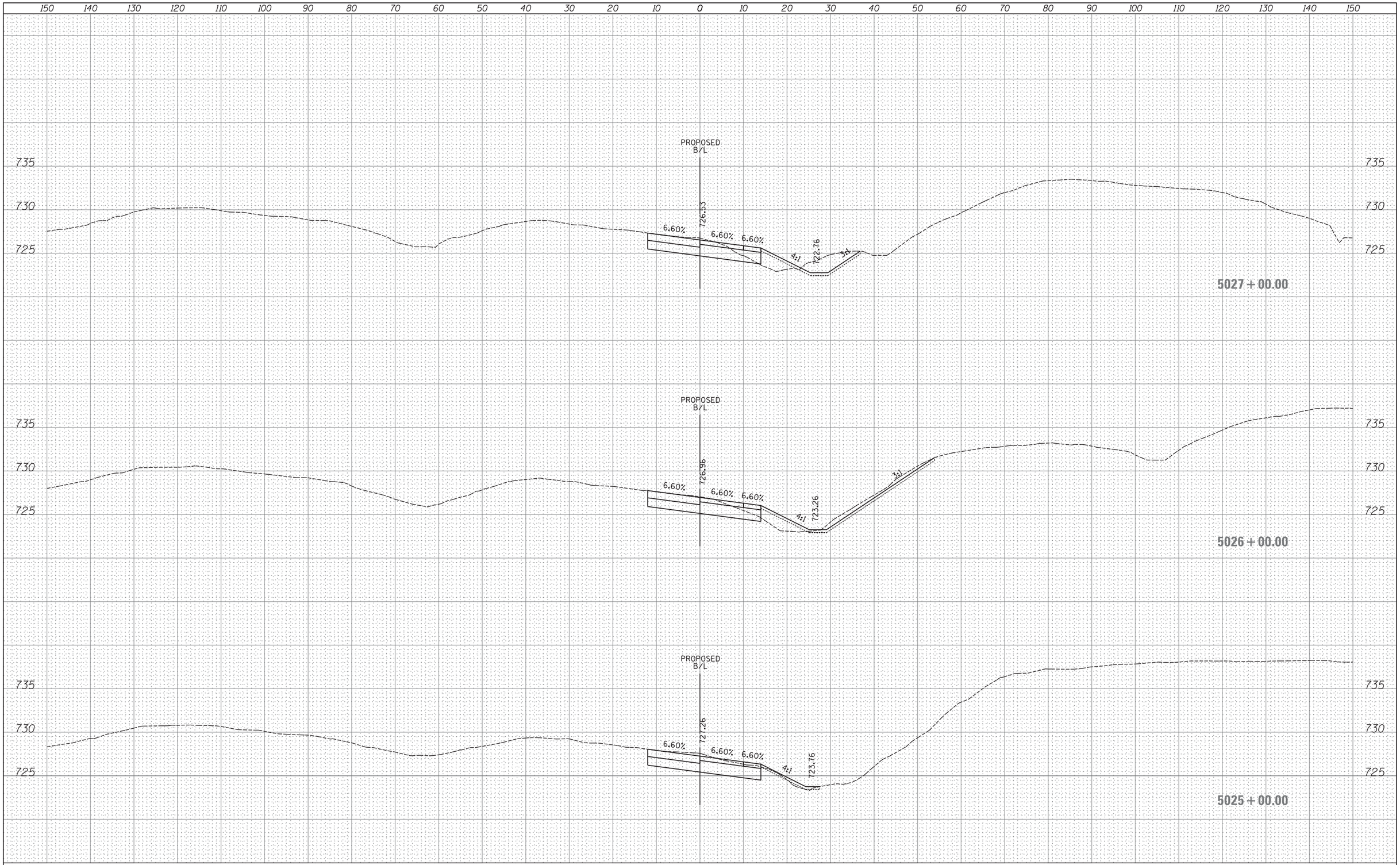
PROPOSED CROSS SECTIONS
WB ENTRANCE LOOP RAMP

SCALE: 1" = 10' | SHEET 136 OF 202 SHEETS | STA. 5023+00.00 TO STA. 5024+00.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
47				

CONTRACT NO.

ILLINOIS FED. AID PROJECT



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

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

FILE NAME =	USER NAME = _USER_	DESIGNED -	REVISED -
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$MODELNAME$	PLOT DATE = 06/25/18	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

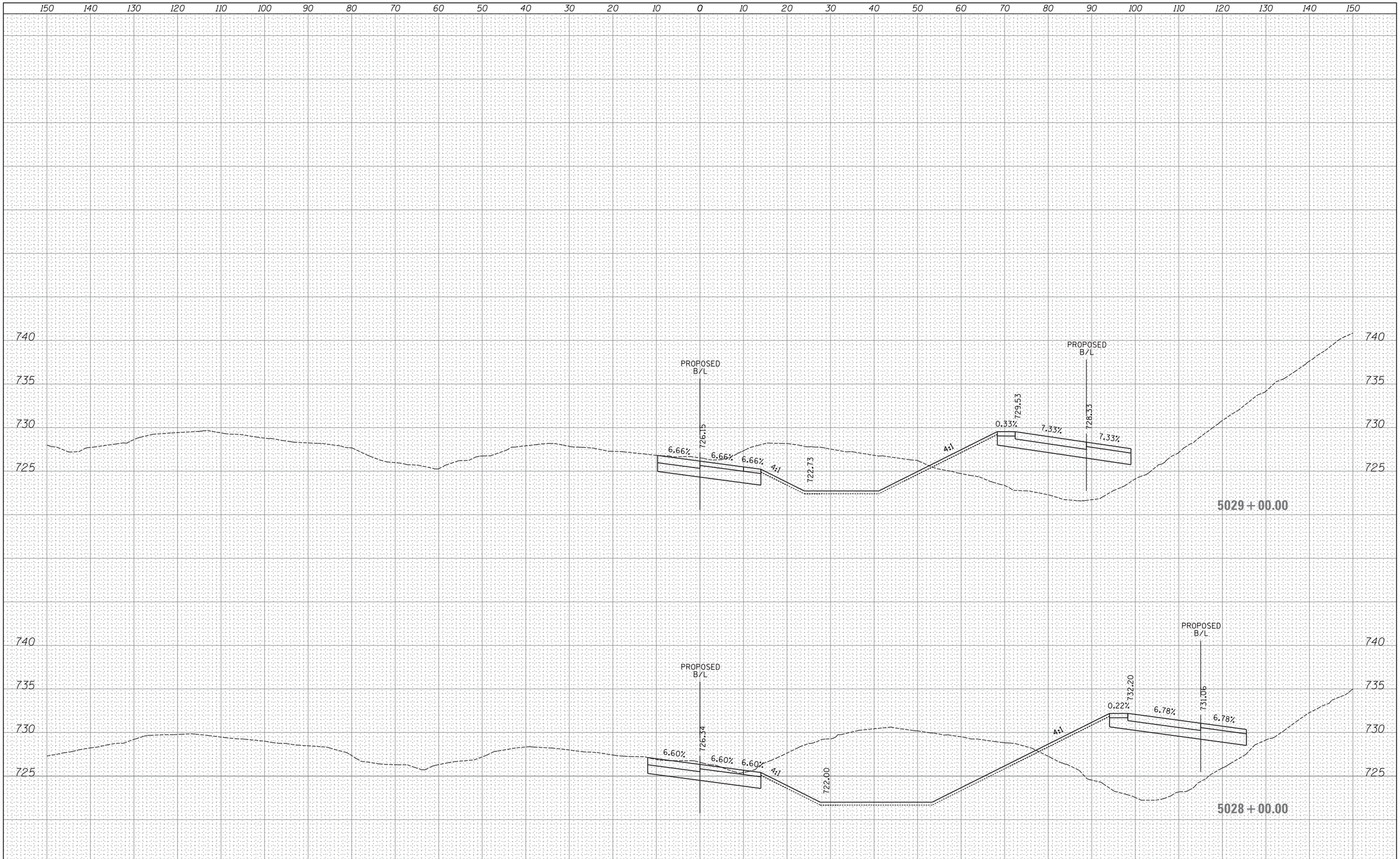
PROPOSED CROSS SECTIONS
WB ENTRANCE LOOP RAMP

SCALE: 1" = 10' | SHEET 137 OF 202 SHEETS | STA. 5025+00.00 TO STA. 5027+00.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
47				

CONTRACT NO.

ILLINOIS FED. AID PROJECT



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

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

FILE NAME =	USER NAME = _USER_	DESIGNED -	REVISED -
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$MODELNAME$	PLOT DATE = 06/25/18	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

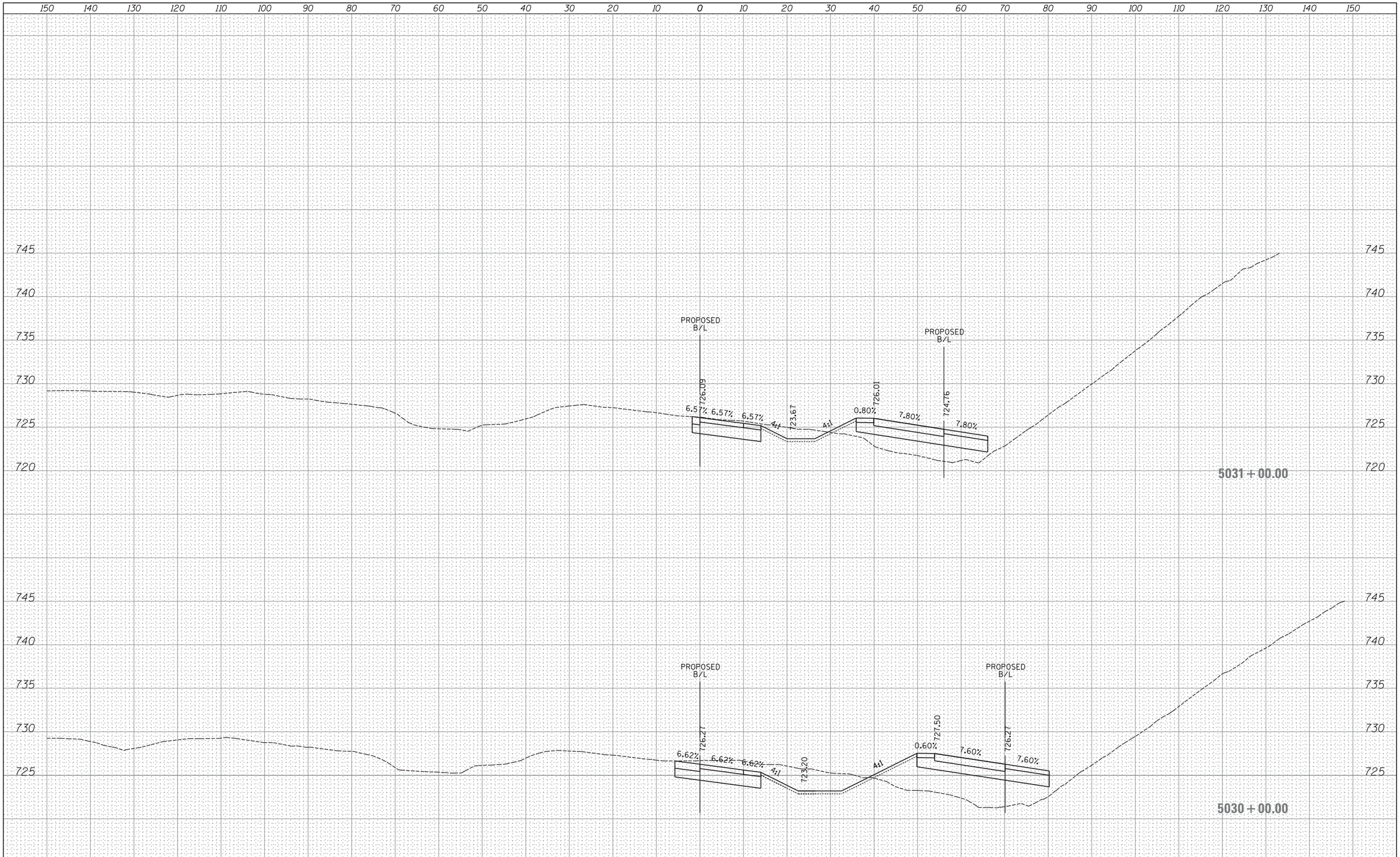
PROPOSED CROSS SECTIONS
WB ENTRANCE LOOP RAMP

SCALE: 1" = 10' | SHEET 138 OF 202 SHEETS | STA. 5028+00.00 TO STA. 5029+00.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
47				

CONTRACT NO.

ILLINOIS | FED. AID PROJECT



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

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

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$MODELNAME$	PLOT DATE = 06/25/18	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

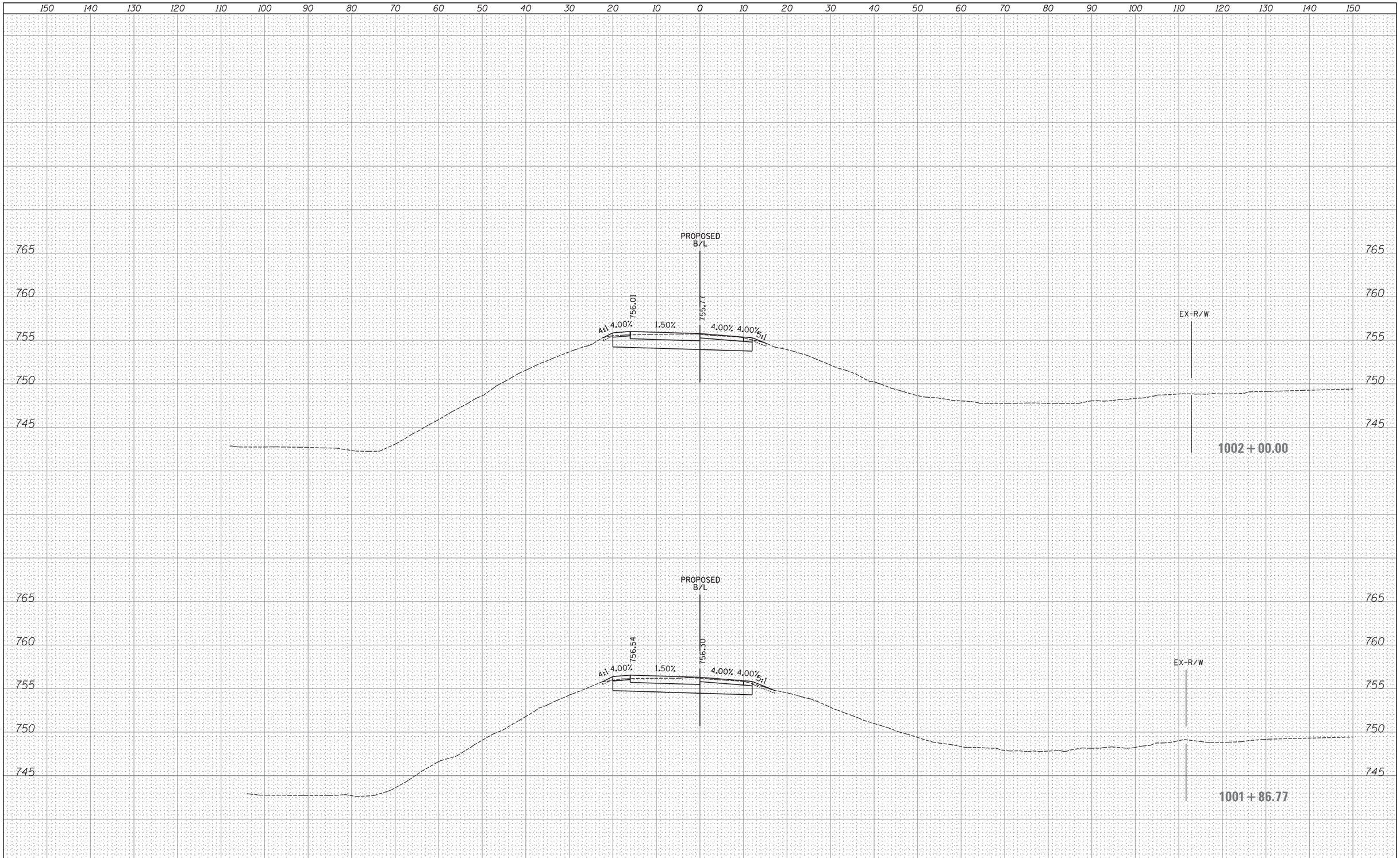
PROPOSED CROSS SECTIONS
WB ENTRANCE LOOP RAMP

SCALE: 1" = 10' | SHEET 139 OF 202 SHEETS | STA. 5030+00.00 TO STA. 5031+00.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
47				

CONTRACT NO.

ILLINOIS FED. AID PROJECT



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

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

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$MODELNAME$	PLOT DATE = 06/25/18	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

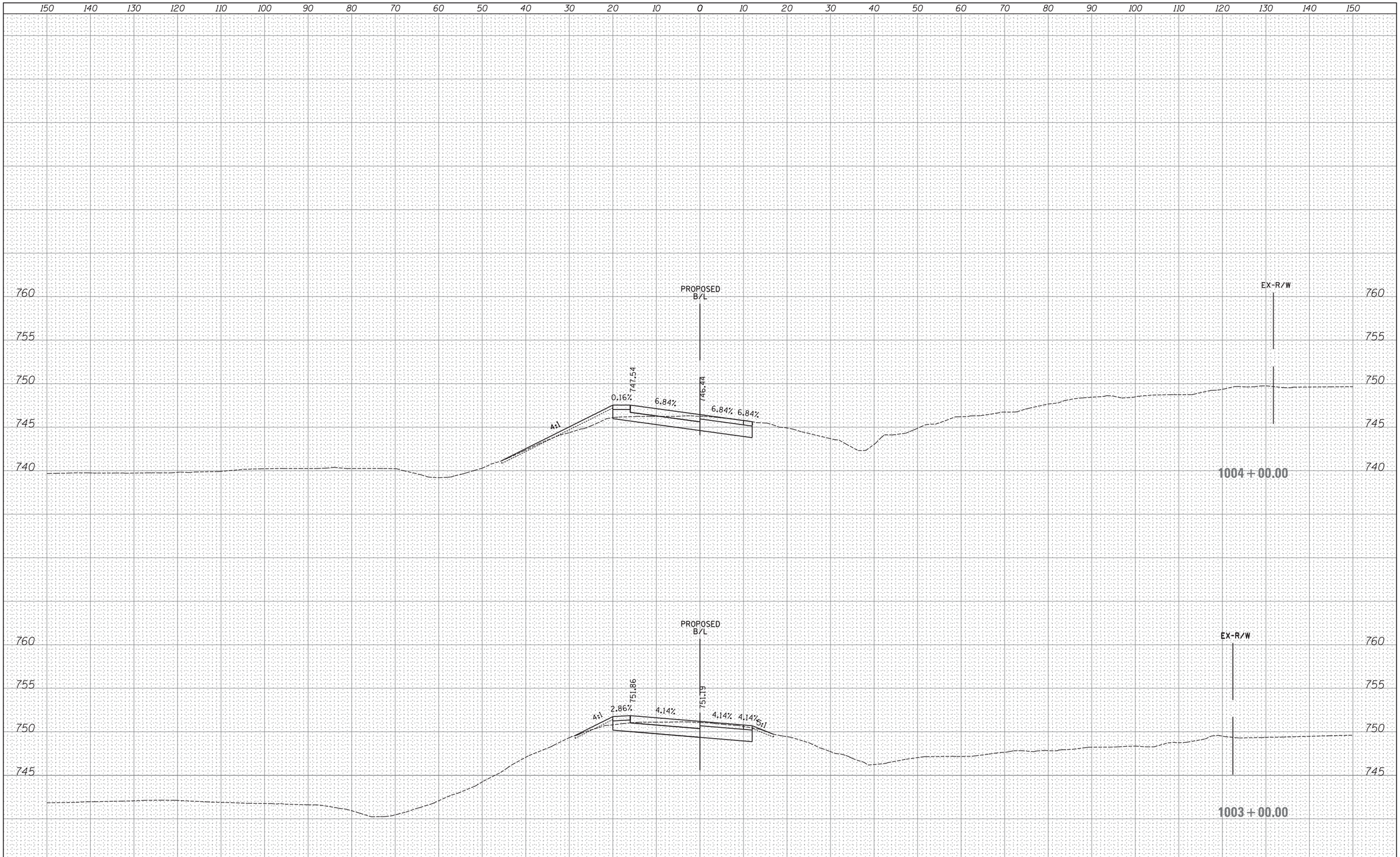
PROPOSED CROSS SECTIONS
SB TO WB ENTRANCE RAMP

SCALE: 1" = 10' | SHEET 140 OF 202 SHEETS | STA. 1001+86.77 TO STA. 1002+00.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
47				

CONTRACT NO.

ILLINOIS FED. AID PROJECT



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

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

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$MODELNAME$	PLOT DATE = 06/25/18	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

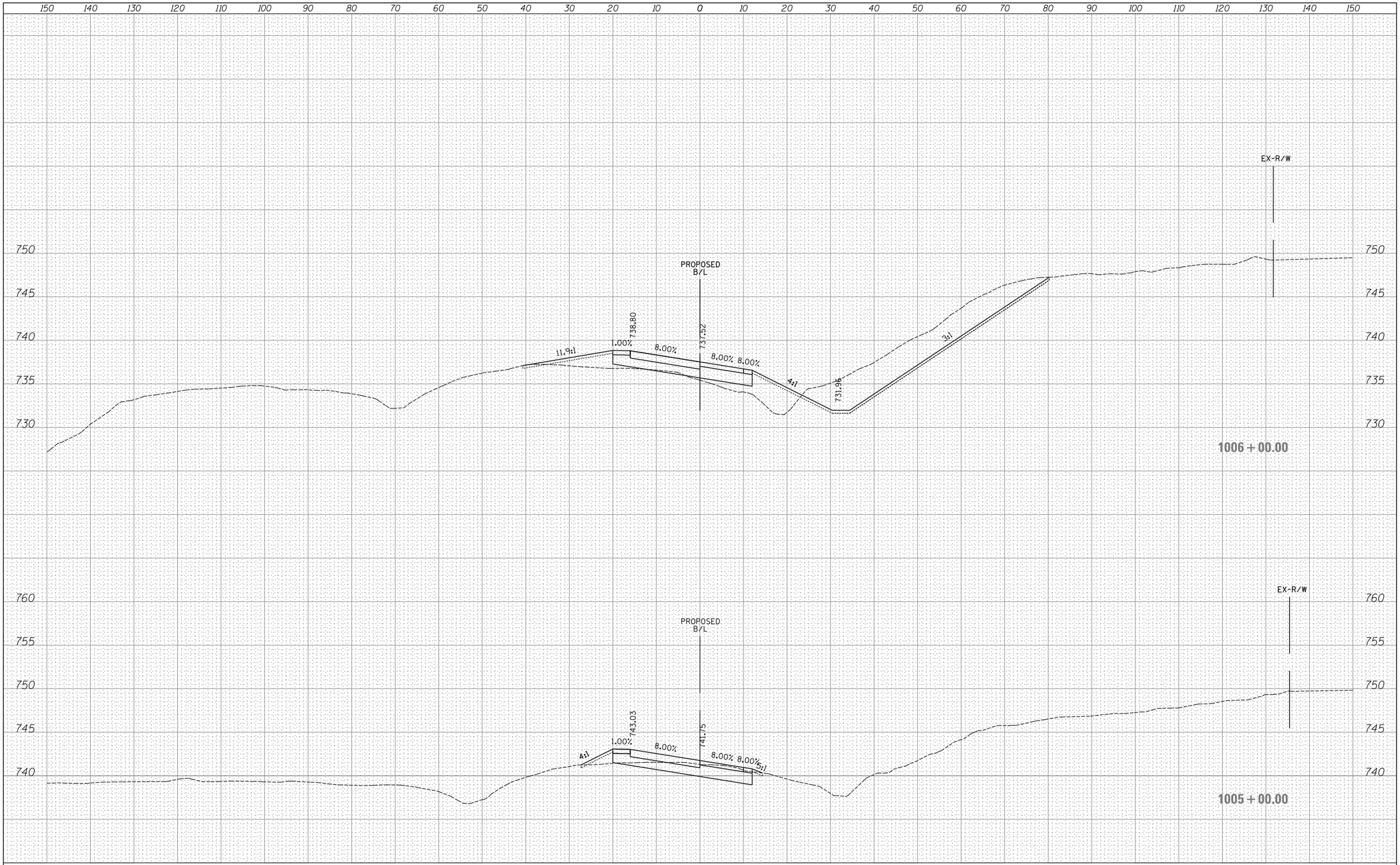
PROPOSED CROSS SECTIONS
SB TO WB ENTRANCE RAMP

SCALE: 1" = 10' | SHEET 141 OF 202 SHEETS | STA. 1003+00.00 TO STA. 1004+00.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
47				

CONTRACT NO.

ILLINOIS FED. AID PROJECT



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

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

FILE NAME = H:\Jobs2015\20153000\CAD\Transportation\dgn\00\DIXXXXX-sht-XS_wbentranceramp2.dgn

$MODELNAME$

USER NAME = _USER_
PLOT SCALE = 10.0000 ' / in.
PLOT DATE = 06/25/18

DESIGNED -
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CHECKED -
DATE -

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REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

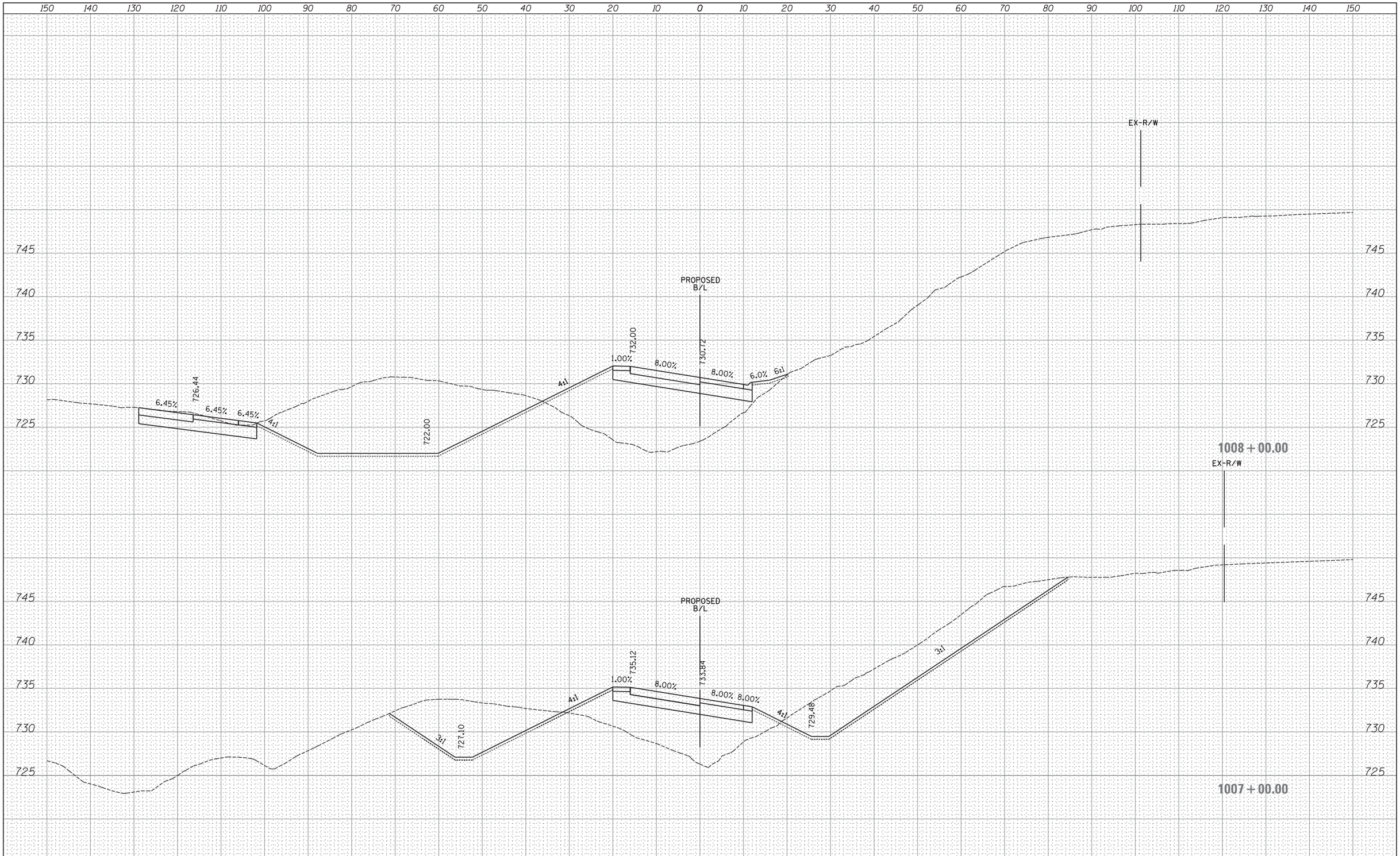
PROPOSED CROSS SECTIONS
SB TO WB ENTRANCE RAMP

SCALE: 1" = 10' | SHEET 142 OF 202 SHEETS | STA. 1005+00.00 TO STA. 1006+00.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
47				

CONTRACT NO.

ILLINOIS FED. AID PROJECT



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

ORIGINAL SURVEY	BY	DATE
SURVEYED		
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AREAS CHECKED		
NOTE BOOK NO.		

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$MODELNAME$	PLOT DATE = 06/25/18	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

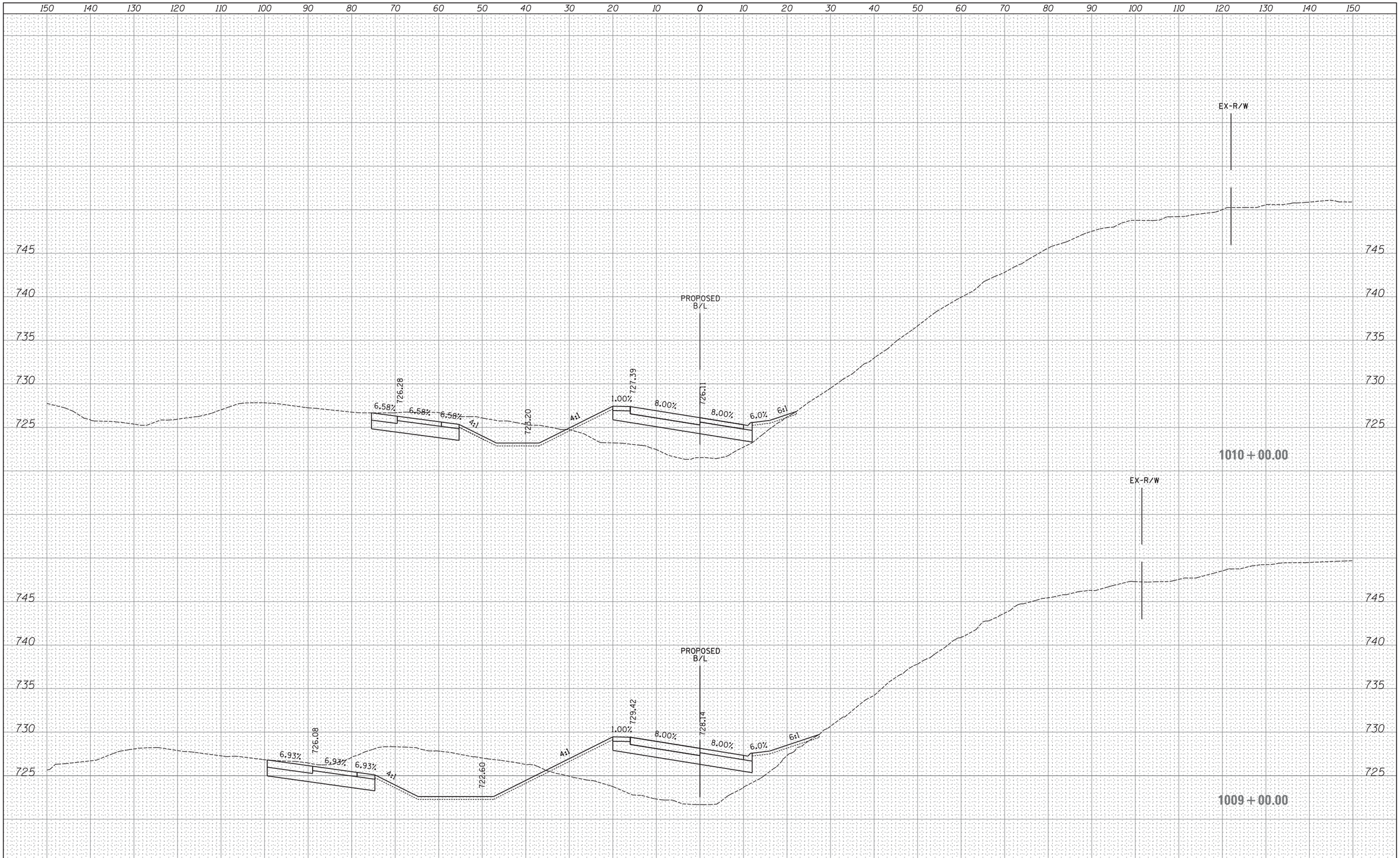
PROPOSED CROSS SECTIONS
SB TO WB ENTRANCE RAMP

SCALE: 1" = 10' | SHEET 143 OF 202 SHEETS | STA. 1007+00.00 TO STA. 1008+00.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
47				

CONTRACT NO.

ILLINOIS FED. AID PROJECT



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

ORIGINAL SURVEY	BY	DATE
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AREAS		
AREAS CHECKED		
NOTE BOOK NO.		

FILE NAME =	USER NAME = _USER_	DESIGNED -	REVISED -
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	PLOT SCALE = 10.0000 ' / in.	CHECKED -	REVISED -
$MODELNAME$	PLOT DATE = 06/25/18	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

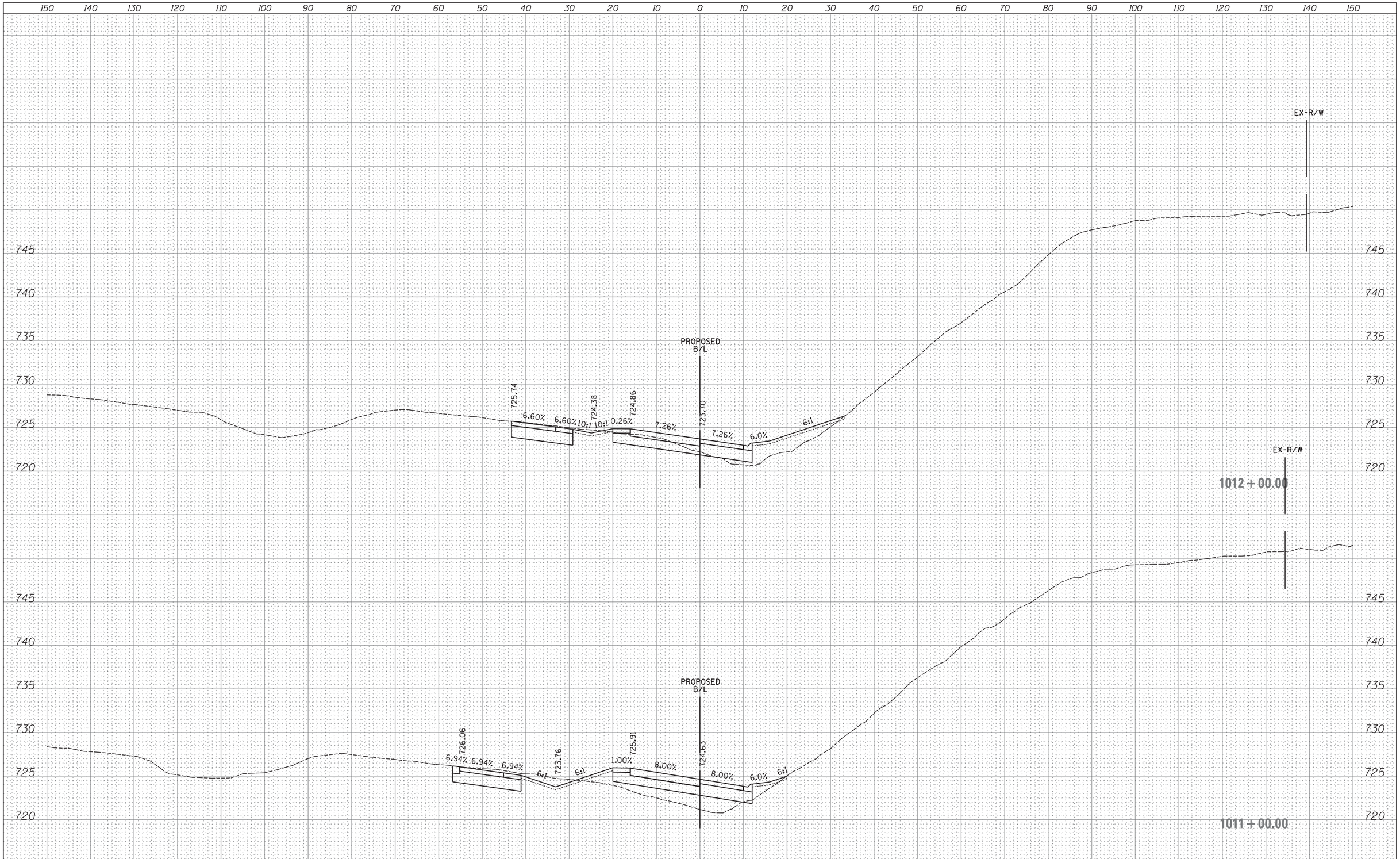
PROPOSED CROSS SECTIONS
SB TO WB ENTRANCE RAMP

SCALE: 1" = 10' | SHEET 144 OF 202 SHEETS | STA. 1009+00.00 TO STA. 1010+00.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
47				

CONTRACT NO.

ILLINOIS FED. AID PROJECT



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$MODELNAME$	PLOT DATE = 06/25/18	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED CROSS SECTIONS
SB TO WB ENTRANCE RAMP

SCALE: 1" = 10' | SHEET 145 OF 202 SHEETS | STA. 1011+00.00 TO STA. 1012+00.00

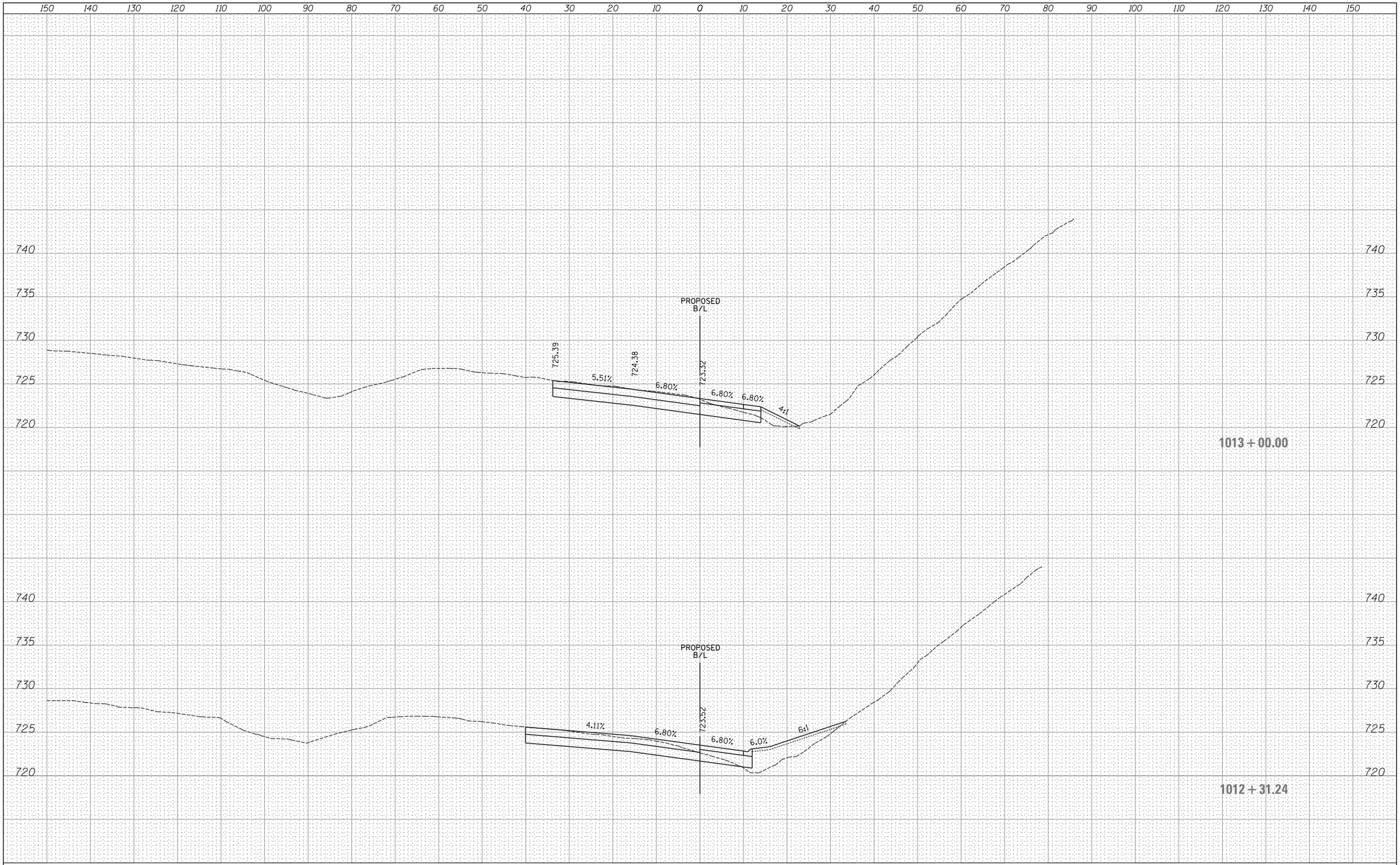
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
47				

CONTRACT NO.

ILLINOIS | FED. AID PROJECT

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

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



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

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

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$MODELNAME$	PLOT DATE = 06/25/18	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

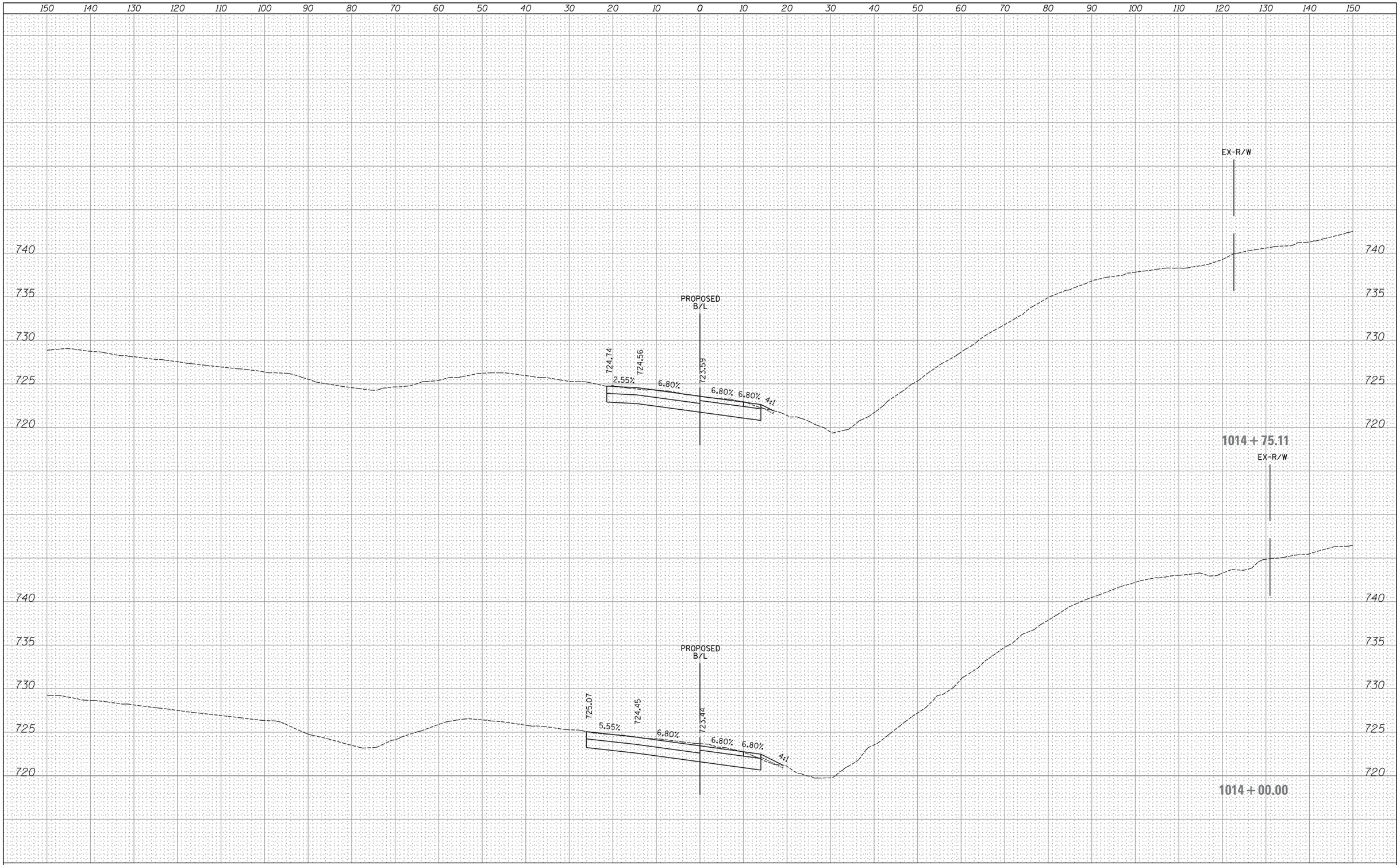
PROPOSED CROSS SECTIONS
SB TO WB ENTRANCE RAMP

SCALE: 1" = 10' | SHEET 146 OF 202 SHEETS | STA. 1012+31.24 TO STA. 1013+00.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
47				

CONTRACT NO.

ILLINOIS FED. AID PROJECT



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

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

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$MODELNAME$

USER NAME = _USER_
PLOT SCALE = 10.0000 ' / in.
PLOT DATE = 06/25/18

DESIGNED -
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DATE -

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REVISED -
REVISED -
REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

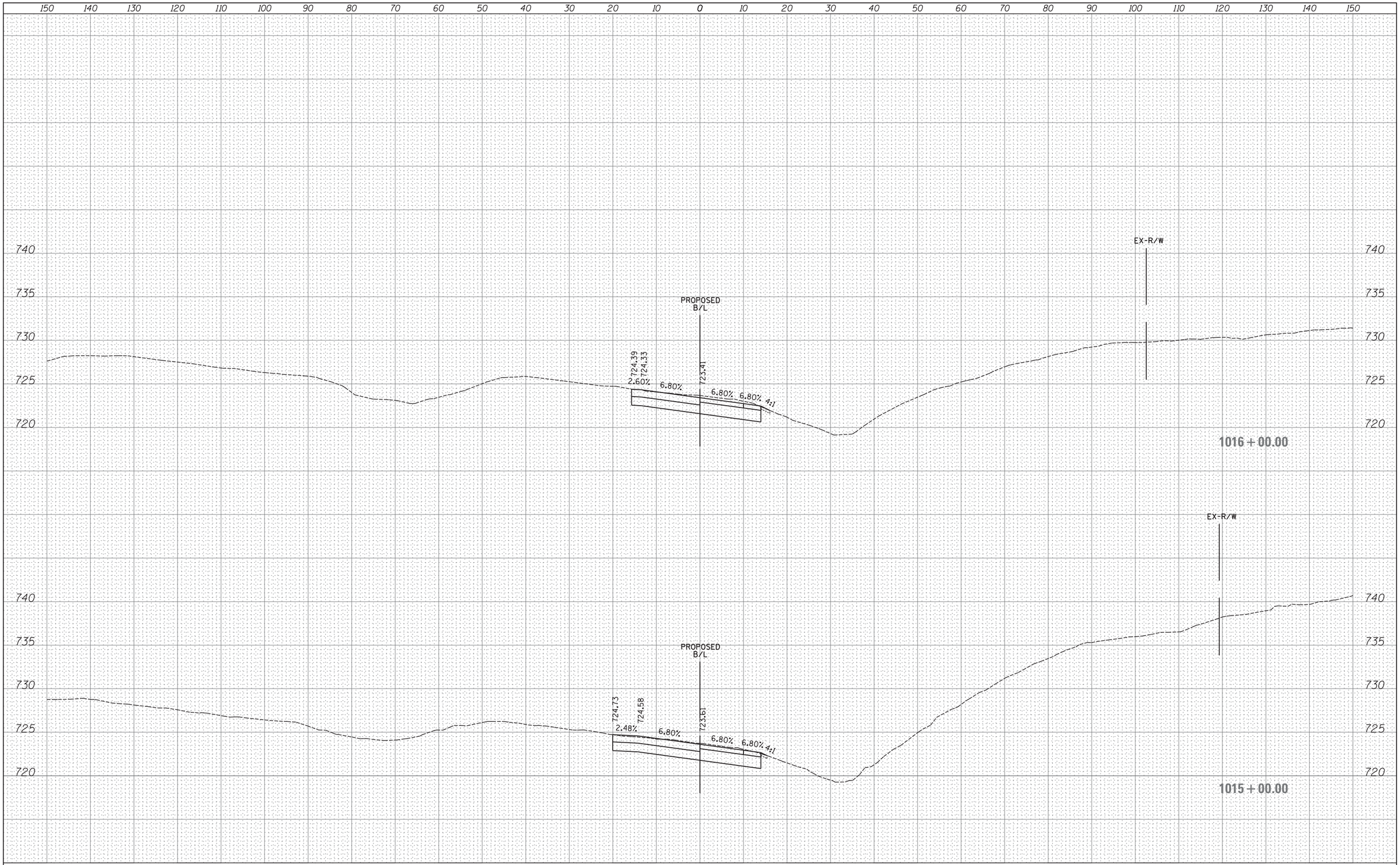
PROPOSED CROSS SECTIONS
SB TO WB ENTRANCE RAMP

SCALE: 1" = 10' | SHEET 147 OF 202 SHEETS | STA. 1014+00.00 TO STA. 1014+75.11

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
47				

CONTRACT NO.

ILLINOIS FED. AID PROJECT



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

ORIGINAL SURVEY	BY	DATE
SURVEYED		
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AREAS CHECKED		
NOTE BOOK NO.		

FILE NAME =	USER NAME = _USER_	DESIGNED -	REVISED -
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$MODELNAME$	PLOT DATE = 06/25/18	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

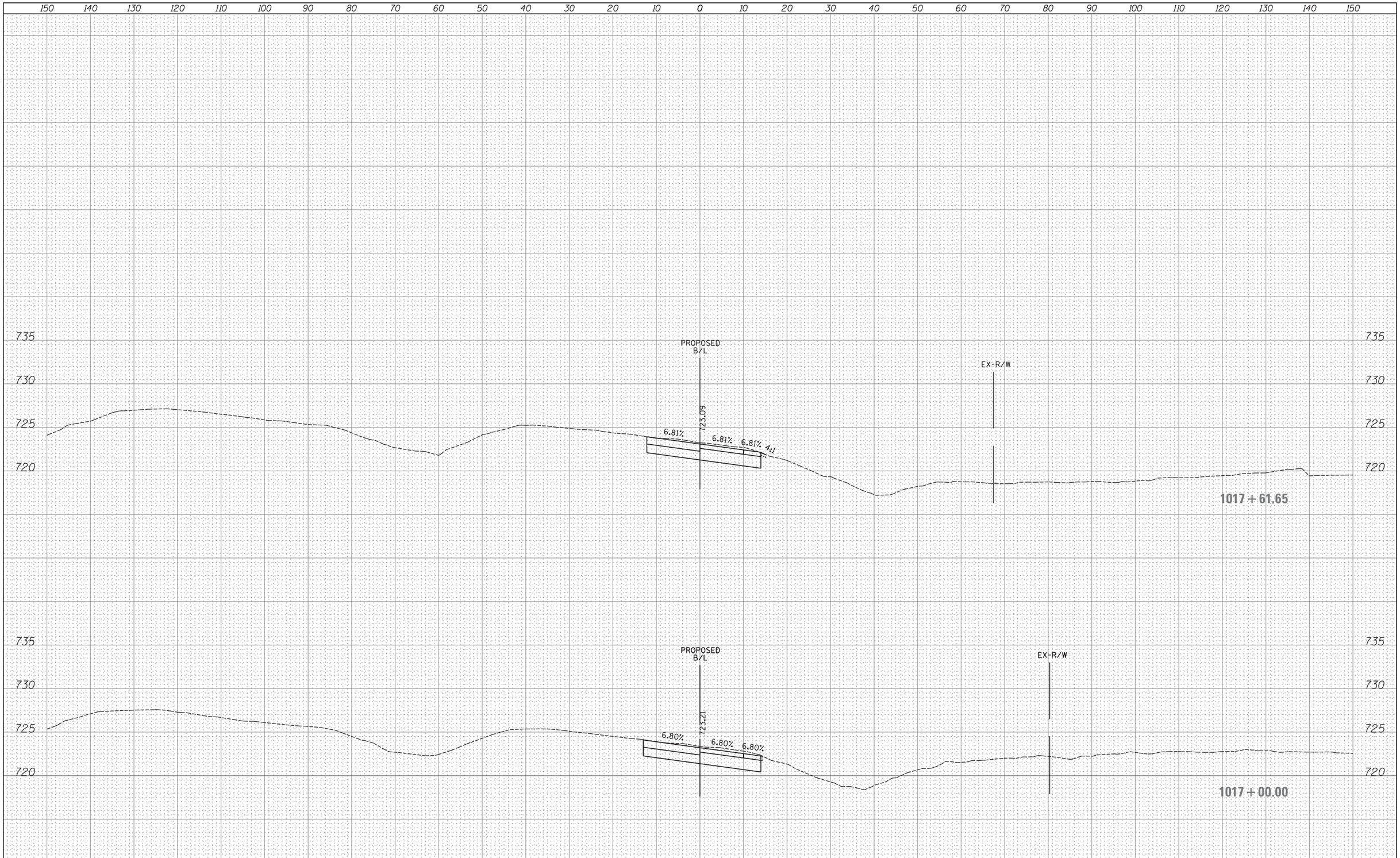
PROPOSED CROSS SECTIONS
SB TO WB ENTRANCE RAMP

SCALE: 1" = 10' | SHEET 148 OF 202 SHEETS | STA. 1015+00.00 TO STA. 1016+00.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
47				

CONTRACT NO.

ILLINOIS FED. AID PROJECT



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

ORIGINAL SURVEY		BY	DATE
NOTE BOOK	SURVEYED		
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FILE NAME =	USER NAME = _USER_	DESIGNED -	REVISED -
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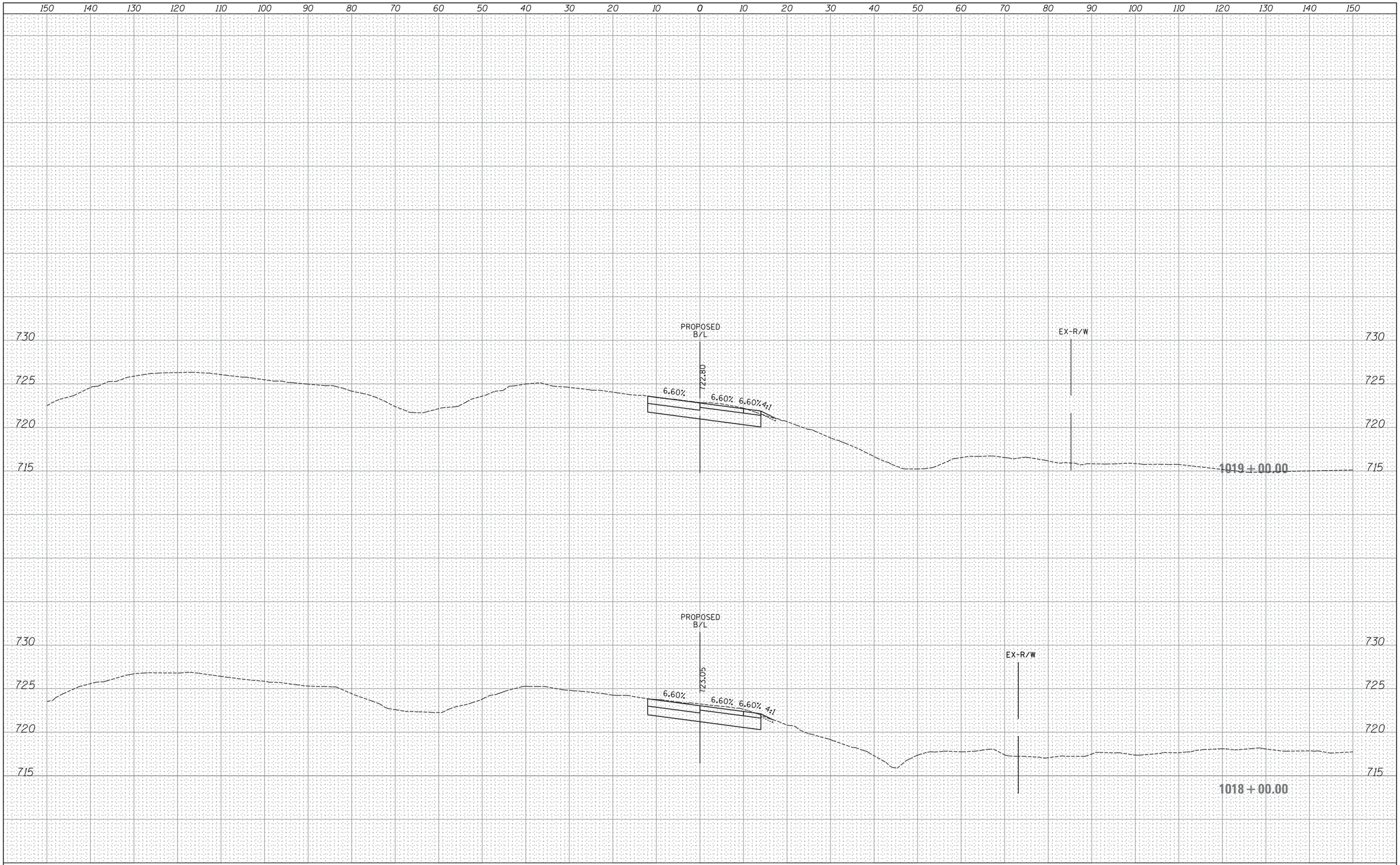
$MODELNAME$	PLOT DATE = 06/25/18	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED CROSS SECTIONS
SB TO WB ENTRANCE RAMP

SCALE: 1" = 10' | SHEET 149 OF 202 SHEETS | STA. 1017+00.00 TO STA. 1017+61.65

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
47				
		CONTRACT NO.		
		ILLINOIS FED. AID PROJECT		



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

ORIGINAL SURVEY		BY	DATE
NOTE BOOK NO.	SURVEYED		
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$MODELNAME$	PLOT DATE = 06/25/18	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED CROSS SECTIONS
SB TO WB ENTRANCE RAMP

SCALE: 1" = 10' | SHEET 150 OF 202 SHEETS | STA. 1018+00.00 TO STA. 1019+00.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
47				

CONTRACT NO.

ILLINOIS | FED. AID PROJECT

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

ORIGINAL SURVEY	BY	DATE
SURVEYED		
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AREAS CHECKED		
NOTE BOOK NO.		

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$MODELNAME$	PLOT DATE = 06/25/18	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

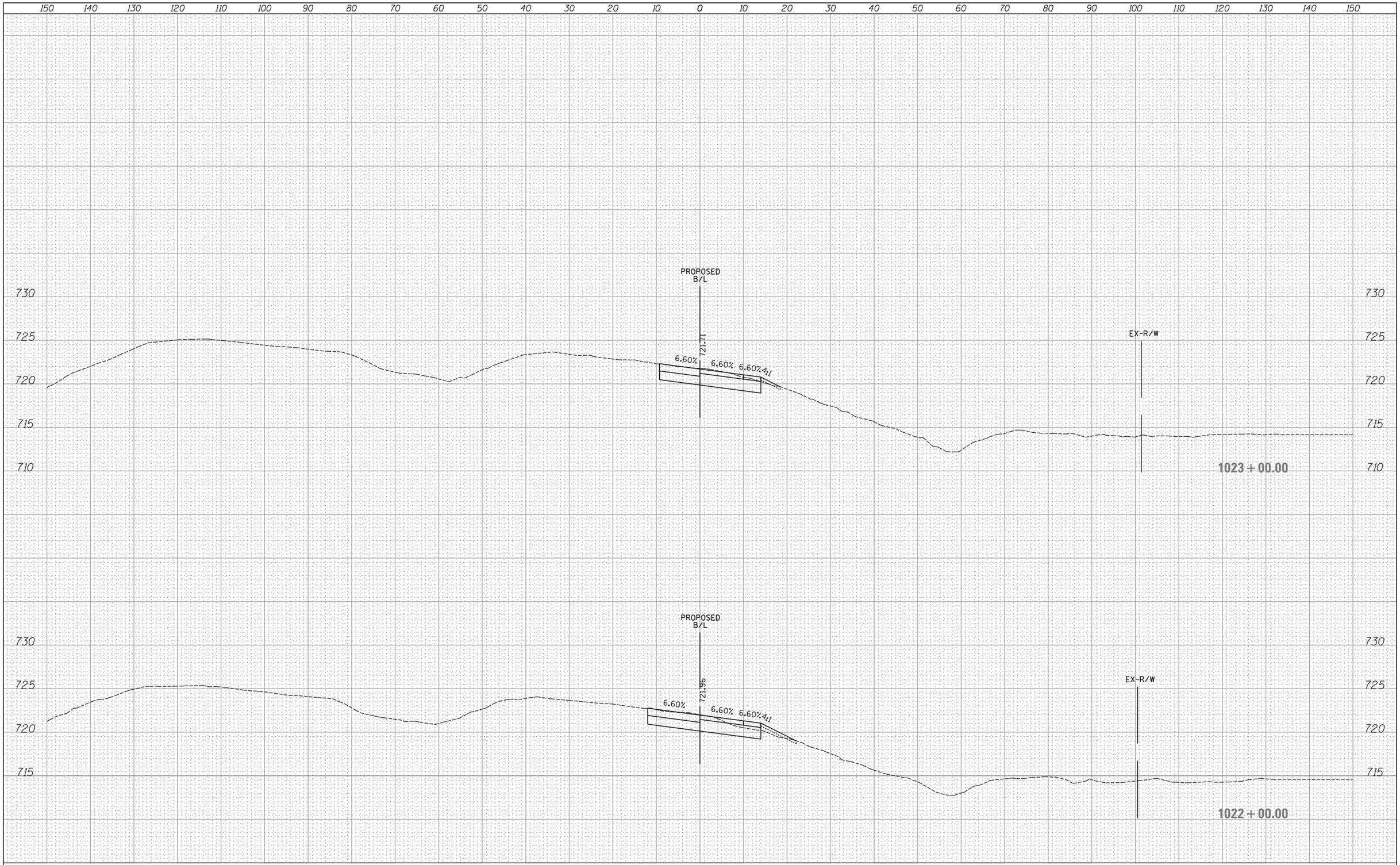
PROPOSED CROSS SECTIONS
SB TO WB ENTRANCE RAMP

SCALE: 1" = 10' | SHEET 151 OF 202 SHEETS | STA. 1020+00.00 TO STA. 1021+00.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
47				

CONTRACT NO.

ILLINOIS | FED. AID PROJECT



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NOTE BOOK NO.		

ORIGINAL SURVEY	BY	DATE
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NOTE BOOK NO.		

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$MODELNAME$	PLOT DATE = 06/25/18	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

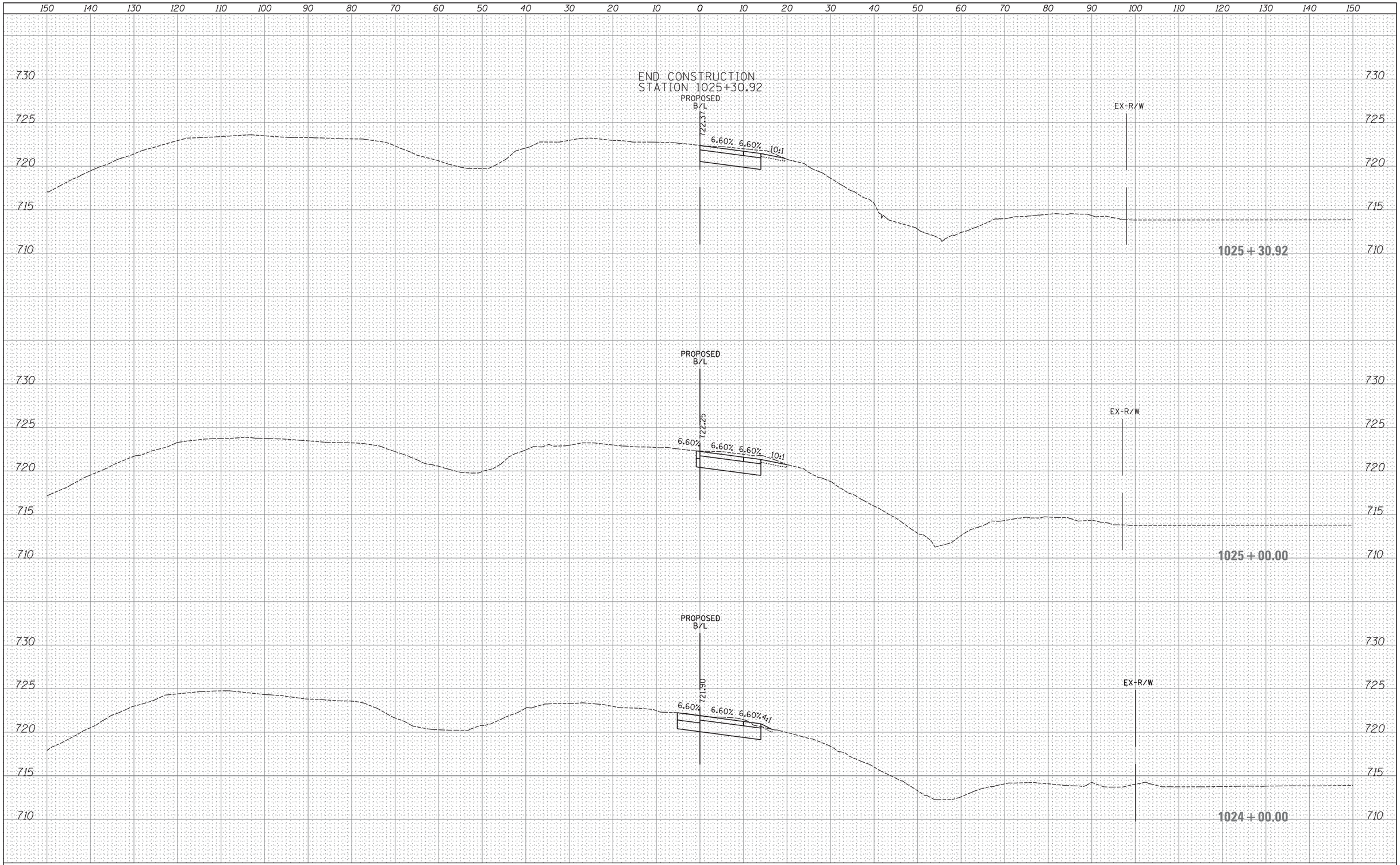
PROPOSED CROSS SECTIONS
SB TO WB ENTRANCE RAMP

SCALE: 1" = 10' | SHEET 152 OF 202 SHEETS | STA. 1022+00.00 TO STA. 1023+00.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
47				

CONTRACT NO.

ILLINOIS | FED. AID PROJECT



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

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

FILE NAME =	USER NAME = _USER_	DESIGNED -	REVISED -
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$MODELNAME$	PLOT DATE = 06/25/18	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

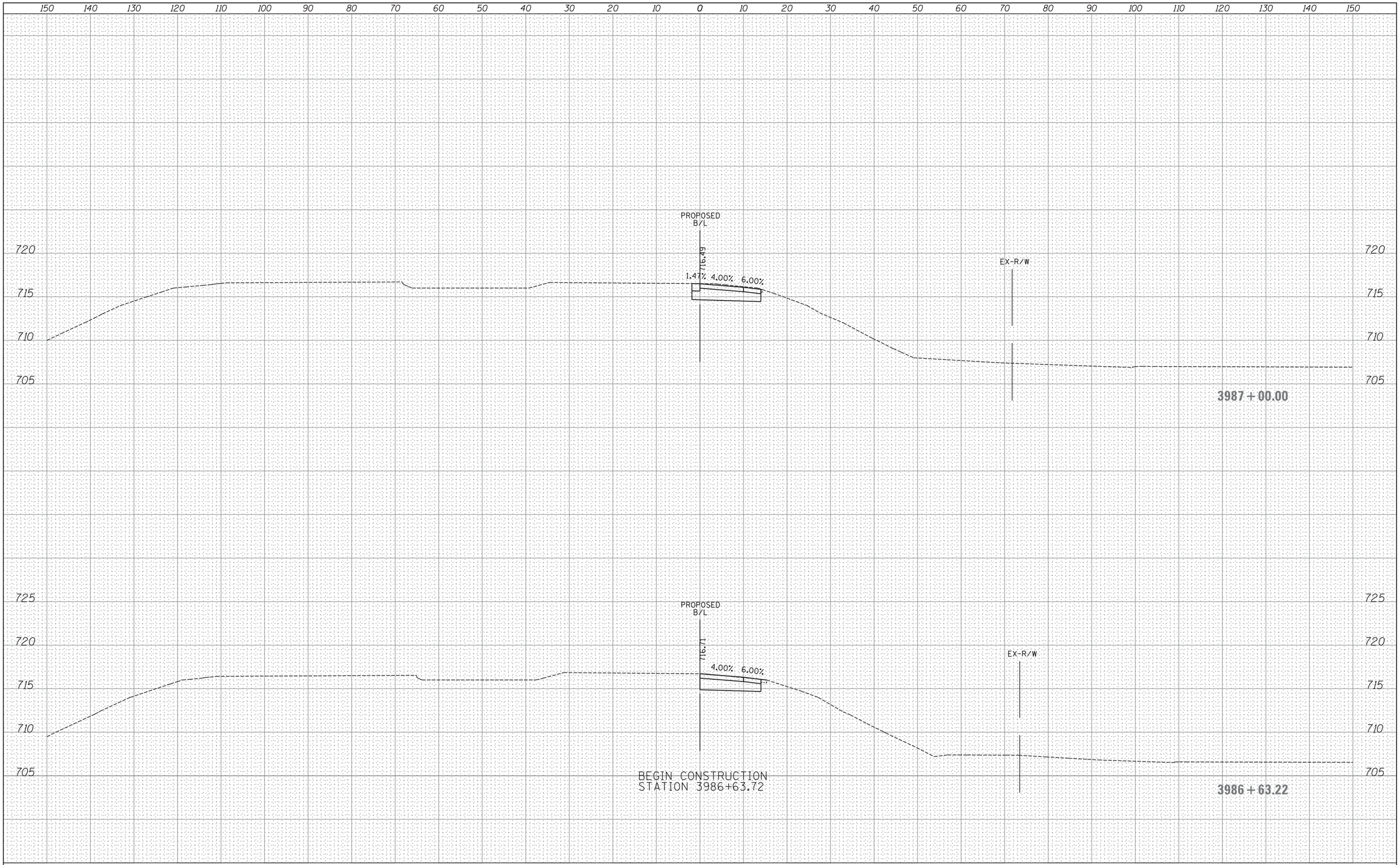
PROPOSED CROSS SECTIONS
SB TO WB ENTRANCE RAMP

SCALE: 1" = 10' | SHEET 153 OF 202 SHEETS | STA. 1024+00.00 TO STA. 1025+30.92

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
47				

CONTRACT NO.

ILLINOIS FED. AID PROJECT



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AREAS CHECKED		
NOTE BOOK NO.		

ORIGINAL SURVEY	BY	DATE
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NOTE BOOK NO.		

FILE NAME =	USER NAME = _USER_	DESIGNED -	REVISED -
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$MODELNAME$	PLOT DATE = 06/25/18	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

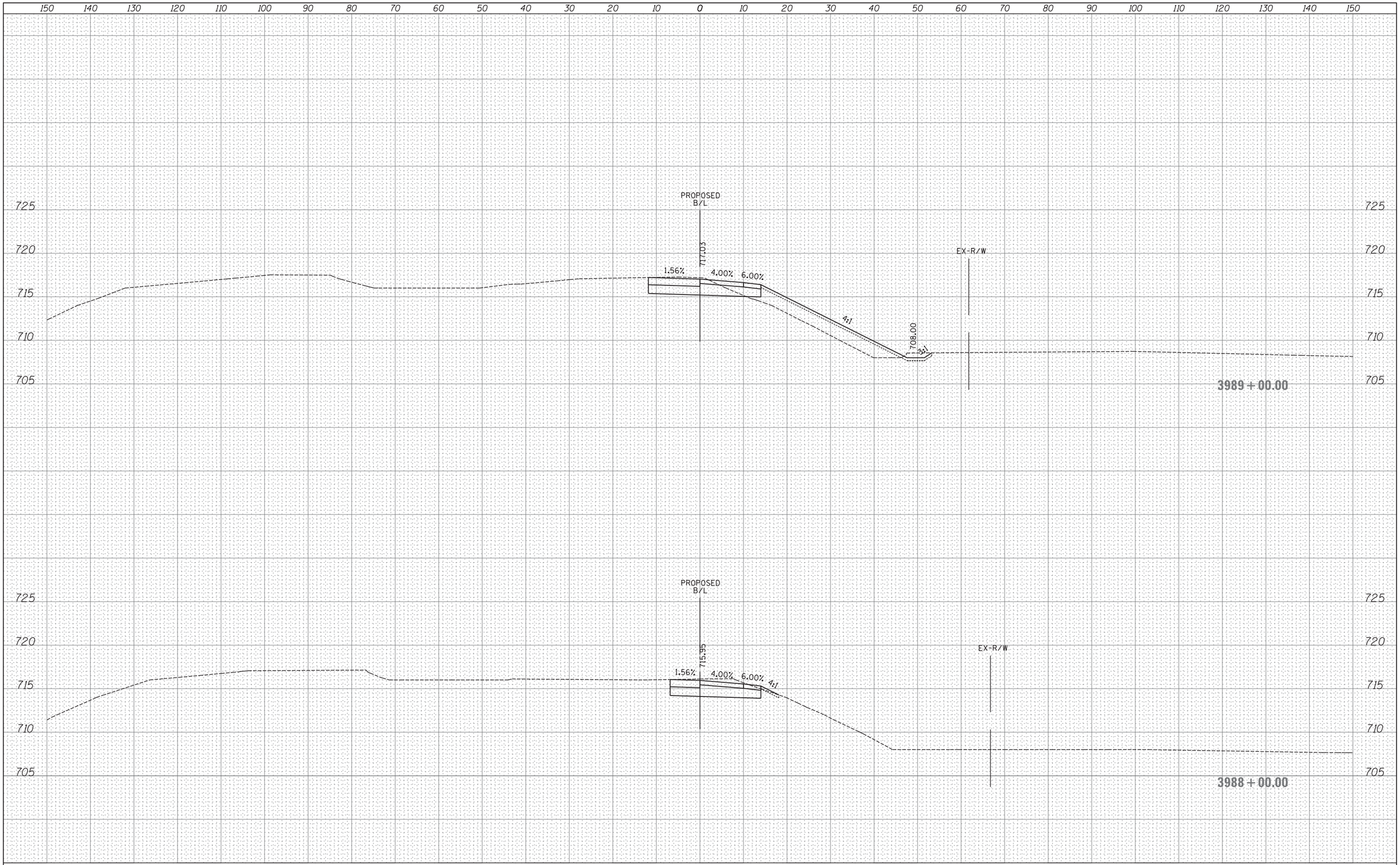
PROPOSED CROSS SECTIONS
WB EXIT RAMP

SCALE: 1" = 10' | SHEET 154 OF 202 SHEETS | STA. 3986+63.22 TO STA. 3987+00.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
47				

CONTRACT NO.

ILLINOIS | FED. AID PROJECT



FINAL SURVEY	BY	DATE
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AREAS		
AREAS CHECKED		
NOTE BOOK NO.		

ORIGINAL SURVEY	BY	DATE
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NOTE BOOK NO.		

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$MODELNAME$	PLOT DATE = 06/25/18	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

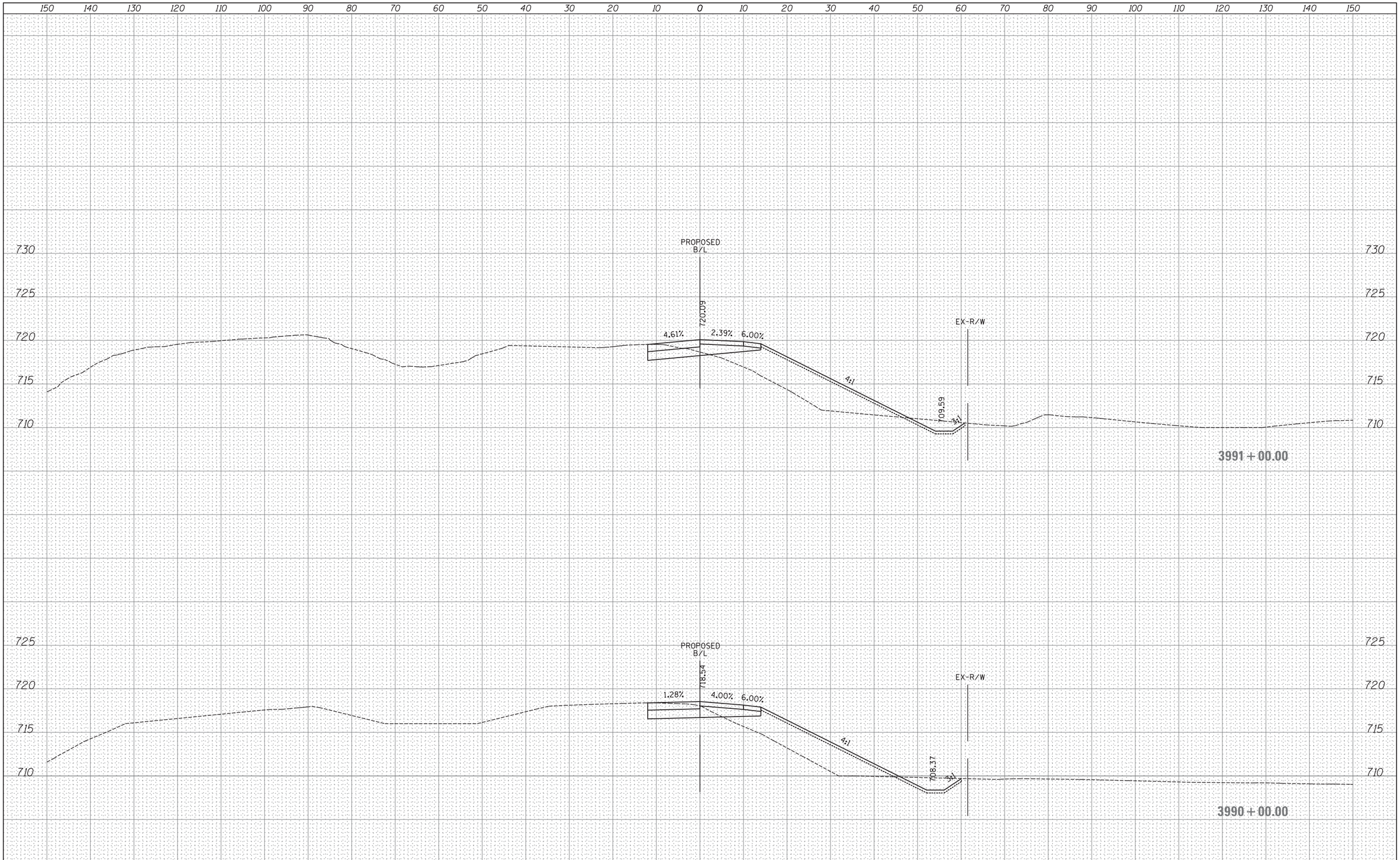
PROPOSED CROSS SECTIONS
WB EXIT RAMP

SCALE: 1" = 10' | SHEET 155 OF 202 SHEETS | STA. 3988+00.00 TO STA. 3989+00.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
47				

CONTRACT NO.

ILLINOIS FED. AID PROJECT



FINAL SURVEY	BY	DATE
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AREAS CHECKED		
NOTE BOOK NO.		

ORIGINAL SURVEY	BY	DATE
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NOTE BOOK NO.		

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$MODELNAME$

USER NAME = _USER_
PLOT SCALE = 10.0000 ' / in.
PLOT DATE = 06/25/18

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

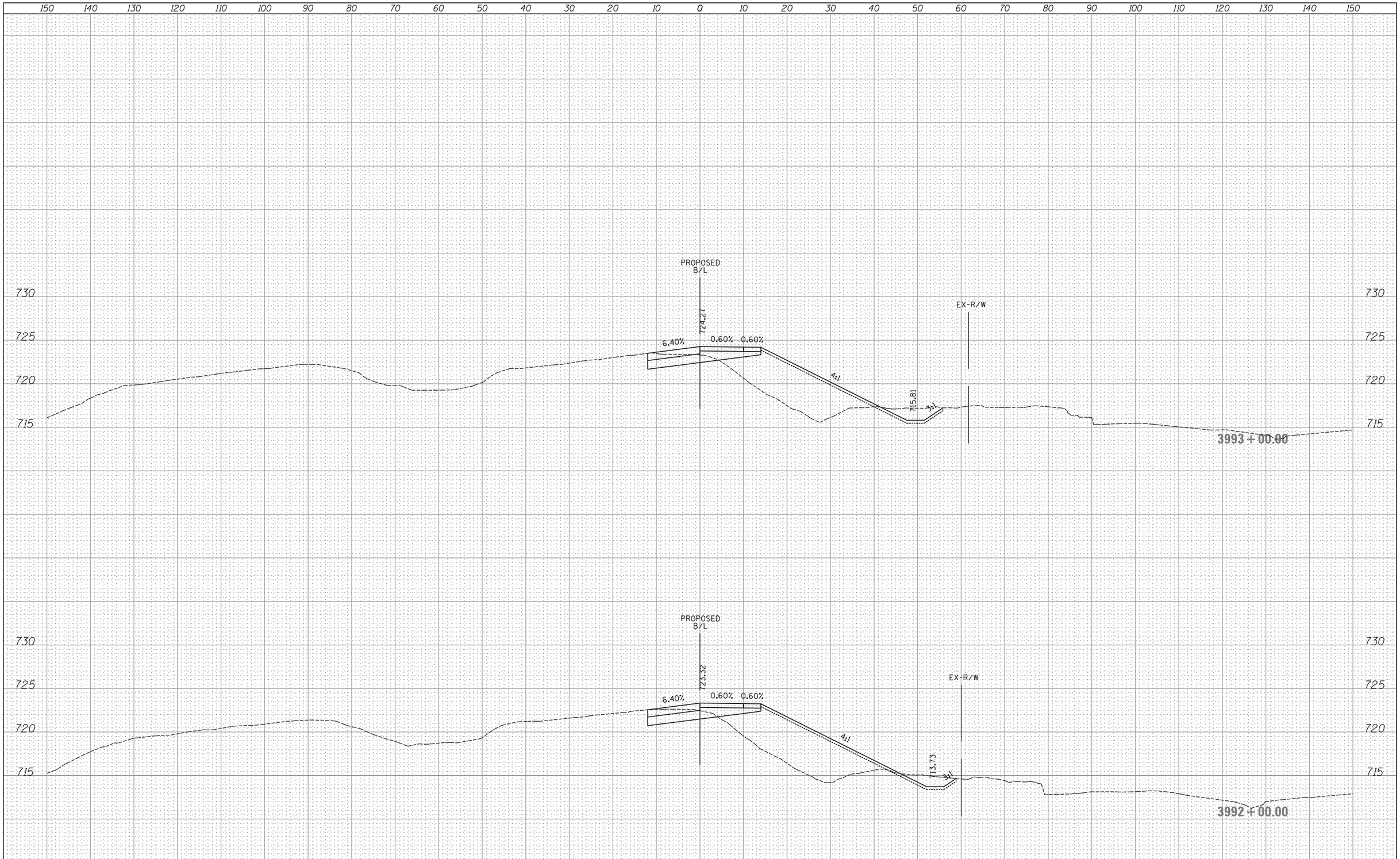
PROPOSED CROSS SECTIONS
WB EXIT RAMP

SCALE: 1" = 10' | SHEET 156 OF 202 SHEETS | STA. 3990+00.00 TO STA. 3991+00.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
47				

CONTRACT NO.

ILLINOIS | FED. AID PROJECT



FINAL SURVEY		BY	DATE
NOTE BOOK	SURVEYED		
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NO.	AREAS CHECKED		

ORIGINAL SURVEY		BY	DATE
NOTE BOOK	SURVEYED		
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NO.	AREAS CHECKED		

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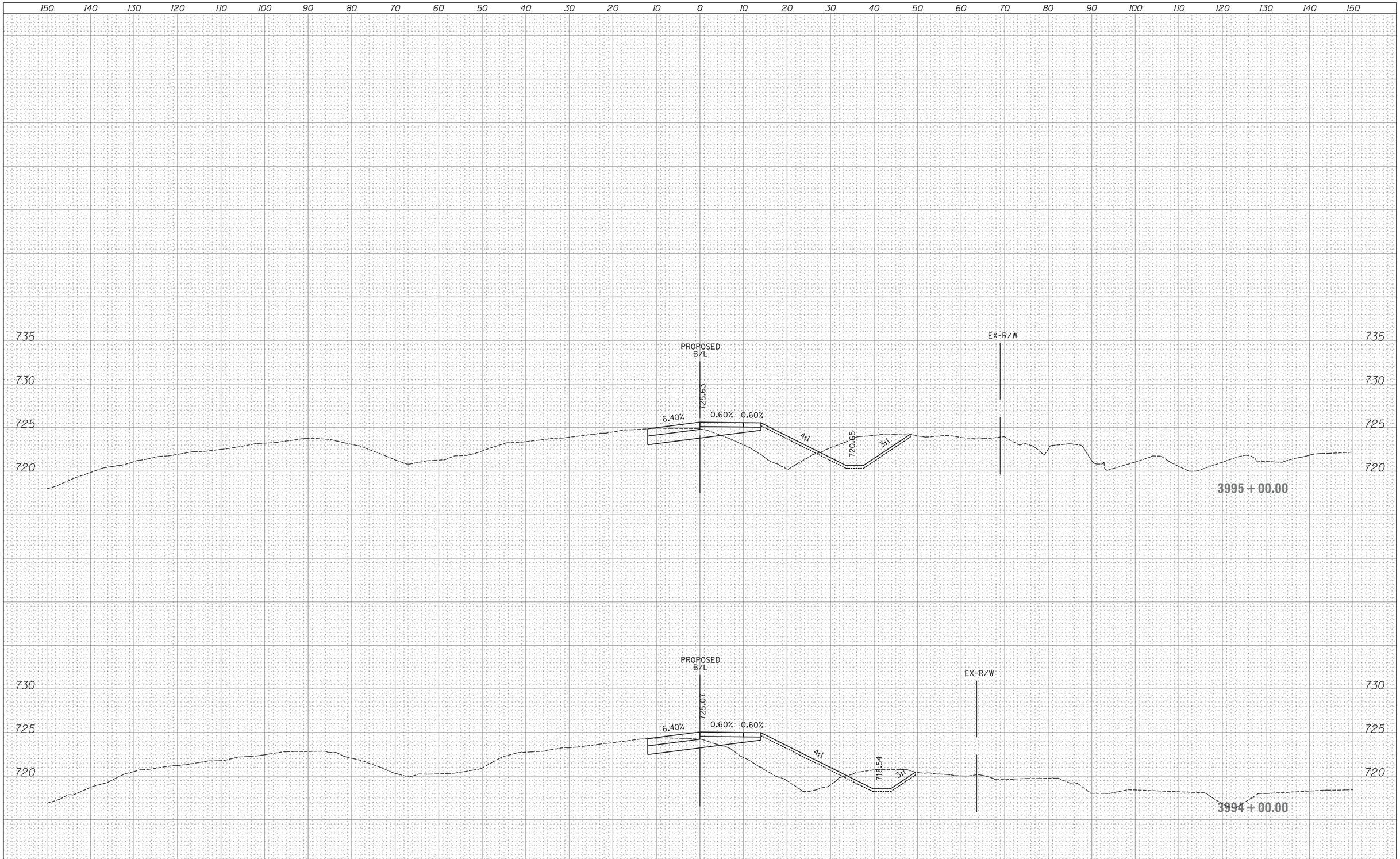
$MODELNAME$	PLOT DATE = 06/25/18	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED CROSS SECTIONS
WB EXIT RAMP

SCALE: 1" = 10' | SHEET 157 OF 202 SHEETS | STA. 3992+00.00 TO STA. 3993+00.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
47				
		CONTRACT NO.		
		ILLINOIS FED. AID PROJECT		



FINAL SURVEY	BY	DATE
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AREAS CHECKED		
NOTE BOOK NO.		

ORIGINAL SURVEY	BY	DATE
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AREAS CHECKED		
NOTE BOOK NO.		

FILE NAME =	USER NAME = _USER_	DESIGNED -	REVISED -
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$MODELNAME$	PLOT DATE = 06/25/18	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

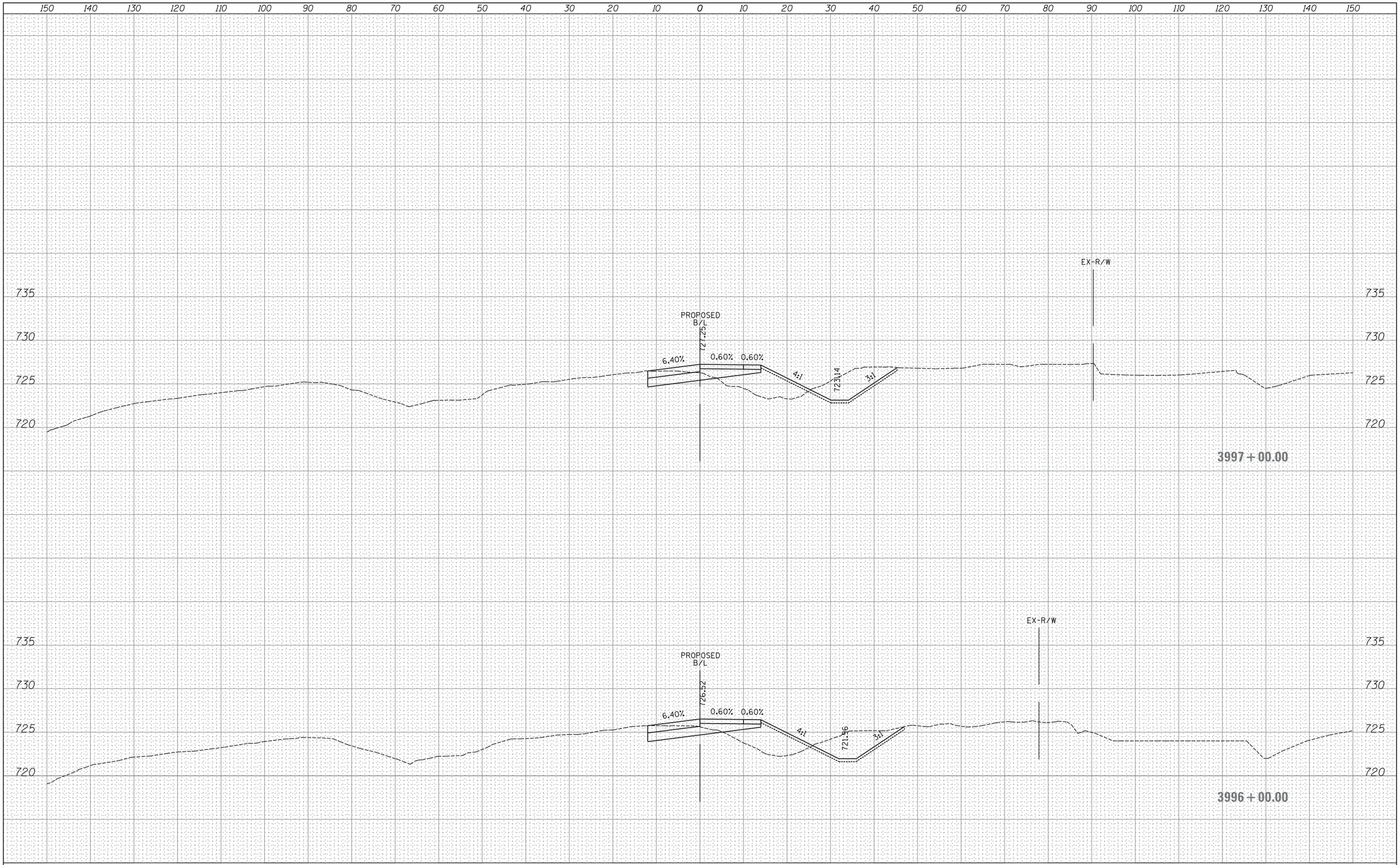
PROPOSED CROSS SECTIONS
WB EXIT RAMP

SCALE: 1" = 10' | SHEET 158 OF 202 SHEETS | STA. 3994+00.00 TO STA. 3995+00.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
47				

CONTRACT NO.

ILLINOIS | FED. AID PROJECT



FINAL SURVEY	BY	DATE
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AREAS CHECKED		
NOTE BOOK NO.		

ORIGINAL SURVEY	BY	DATE
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NOTE BOOK NO.		

FILE NAME =	USER NAME = _USER_	DESIGNED -	REVISED -
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$MODELNAME$	PLOT DATE = 06/25/18	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

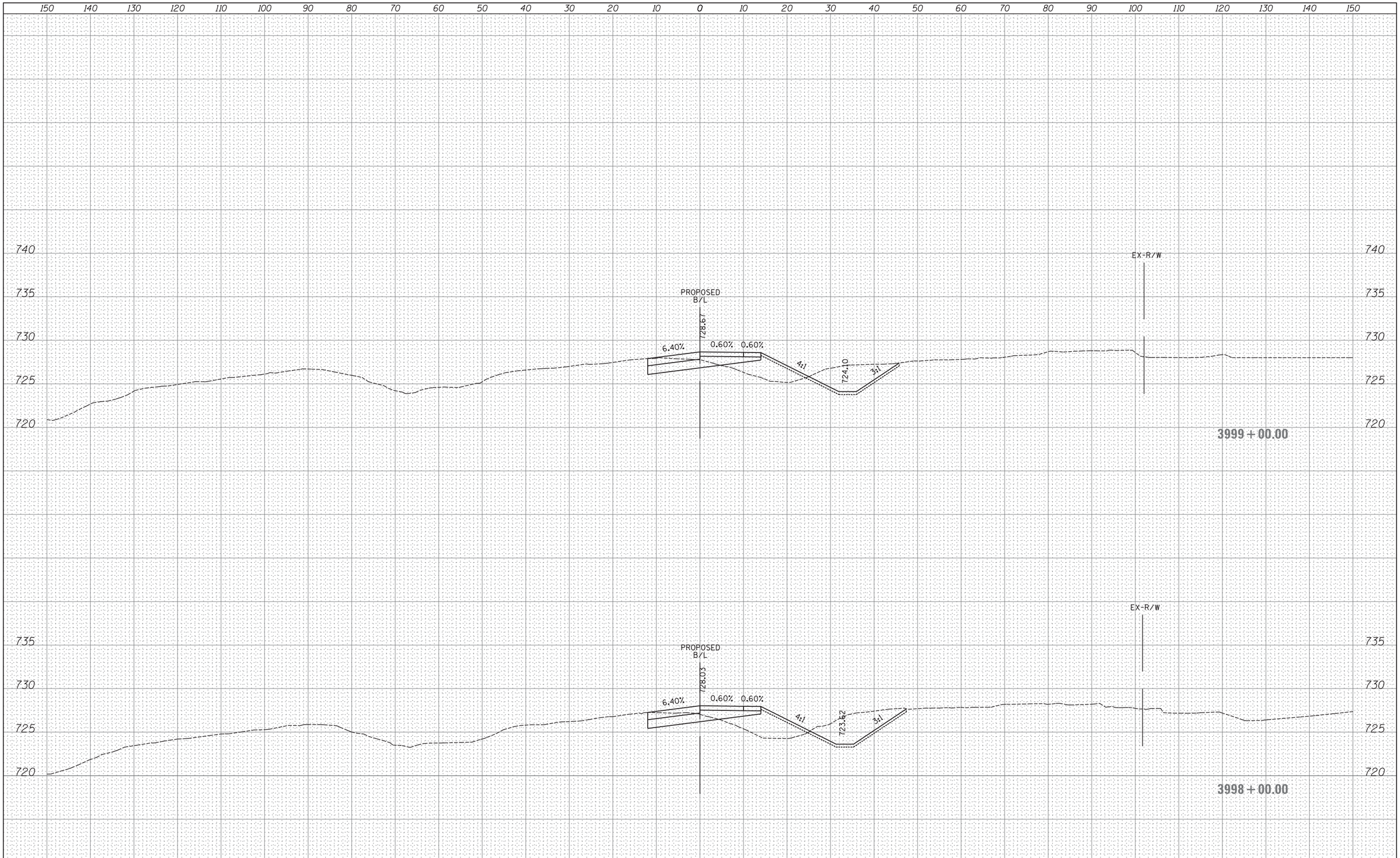
PROPOSED CROSS SECTIONS
WB EXIT RAMP

SCALE: 1" = 10' | SHEET 159 OF 202 SHEETS | STA. 3996+00.00 TO STA. 3997+00.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
47				

CONTRACT NO.

ILLINOIS FED. AID PROJECT



FINAL SURVEY	BY	DATE
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AREAS		
AREAS CHECKED		
NOTE BOOK NO.		

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

FILE NAME =	USER NAME = _USER_	DESIGNED -	REVISED -
H:\Jobs2015\20153000\CAD\Transportation\dgn\00\DIXXXXX-sht-XS_WBexitramp.dgn		DRAWN -	REVISED -
	PLOT SCALE = 10.0000 ' / in.	CHECKED -	REVISED -
$MODELNAME$	PLOT DATE = 06/25/18	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

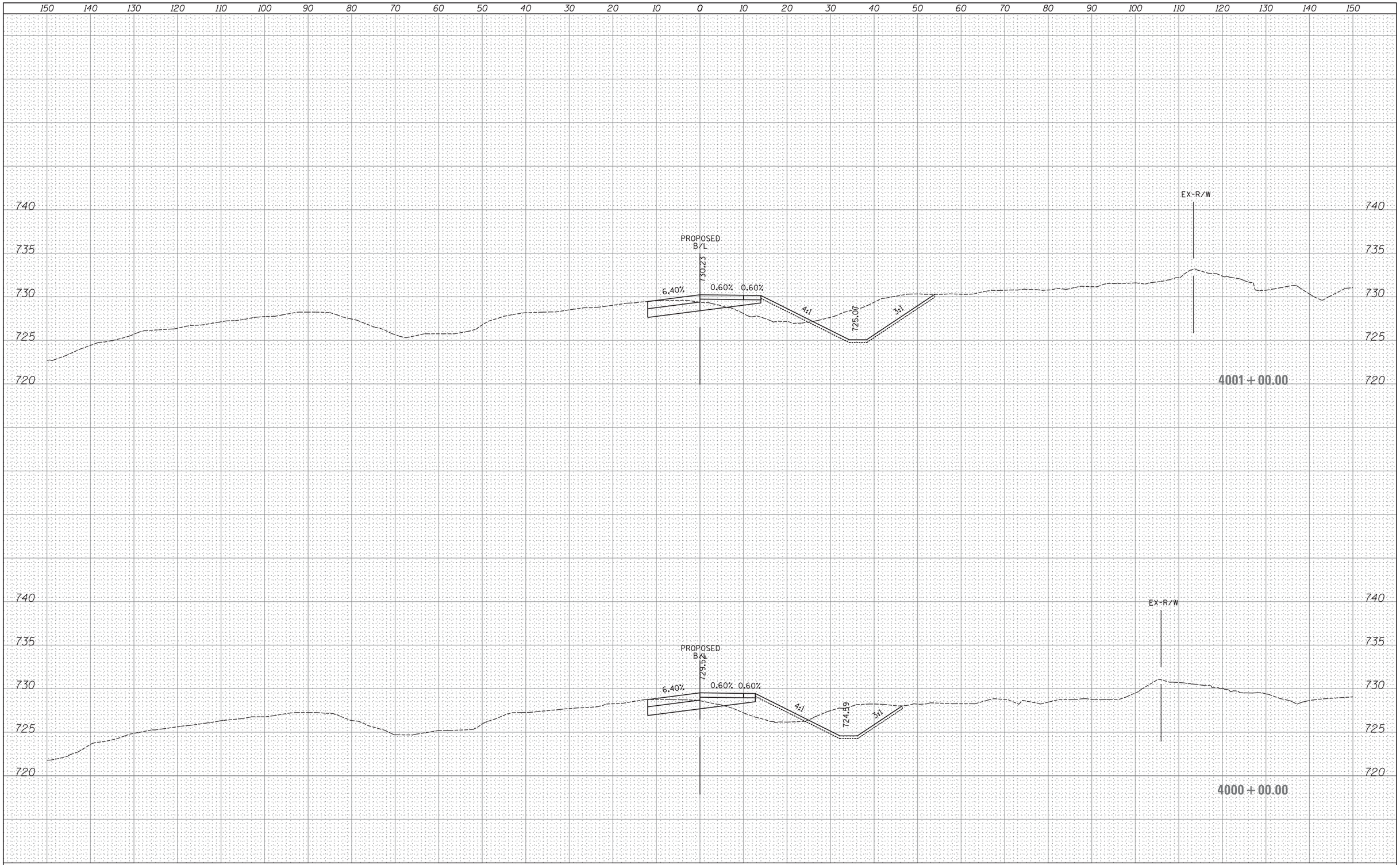
PROPOSED CROSS SECTIONS
WB EXIT RAMP

SCALE: 1" = 10' | SHEET 160 OF 202 SHEETS | STA. 3998+00.00 TO STA. 3999+00.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
47				

CONTRACT NO.

ILLINOIS FED. AID PROJECT



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

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

FILE NAME =	USER NAME = _USER_	DESIGNED -	REVISED -
H:\Jobs2015\20153000\CAD\Transportation\dgn\00\DIXXXXX-sht-XS_WBexitramp.dgn		DRAWN -	REVISED -
	PLOT SCALE = 10.0000 ' / in.	CHECKED -	REVISED -
$MODELNAME$	PLOT DATE = 06/25/18	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

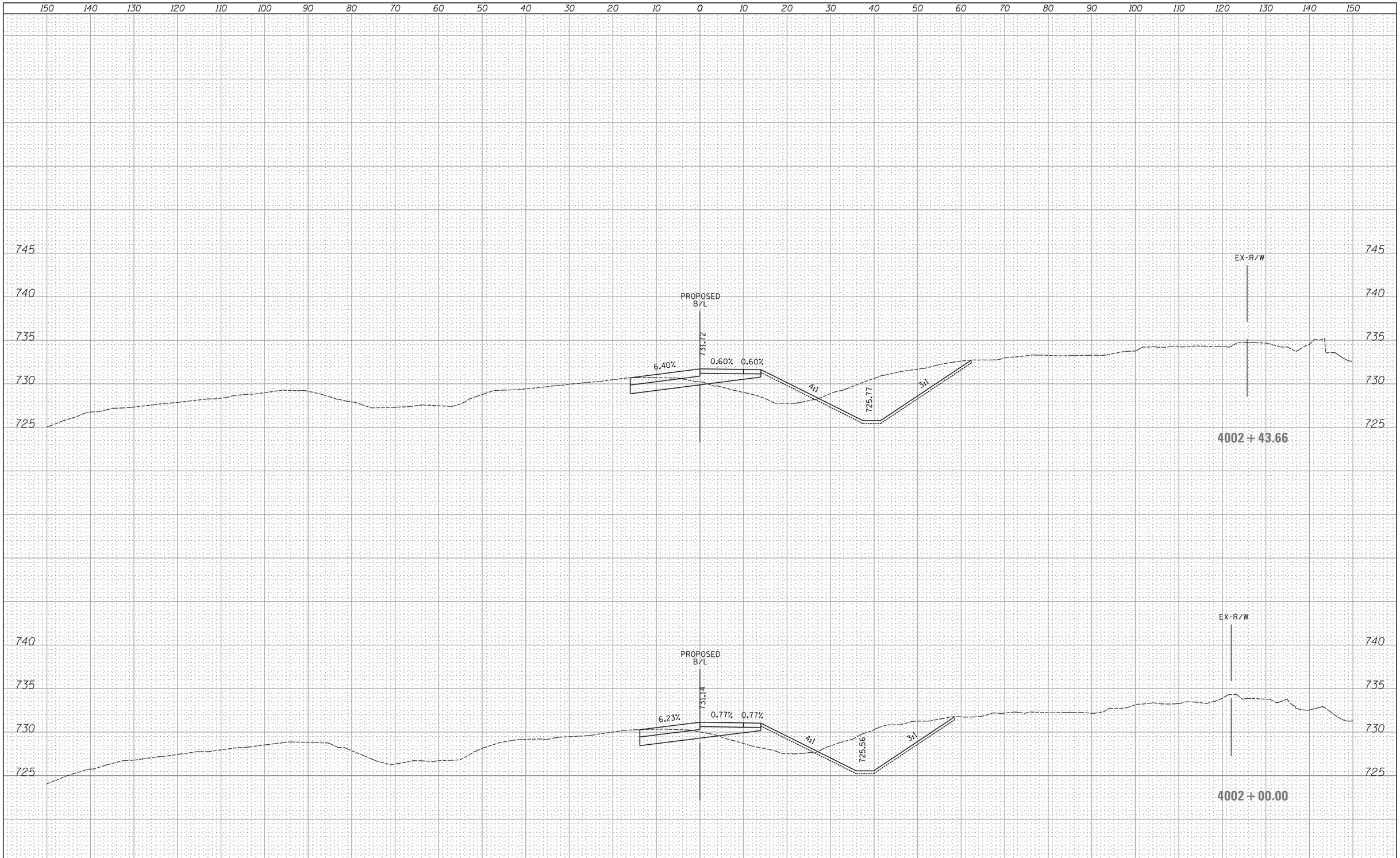
PROPOSED CROSS SECTIONS
WB EXIT RAMP

SCALE: 1" = 10' | SHEET 161 OF 202 SHEETS | STA. 4000+00.00 TO STA. 4001+00.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
47				

CONTRACT NO.

ILLINOIS FED. AID PROJECT



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

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

FILE NAME =	USER NAME = _USER_	DESIGNED -	REVISED -
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	PLOT SCALE = 10.0000 ' / in.	CHECKED -	REVISED -
$MODELNAME$	PLOT DATE = 06/25/18	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

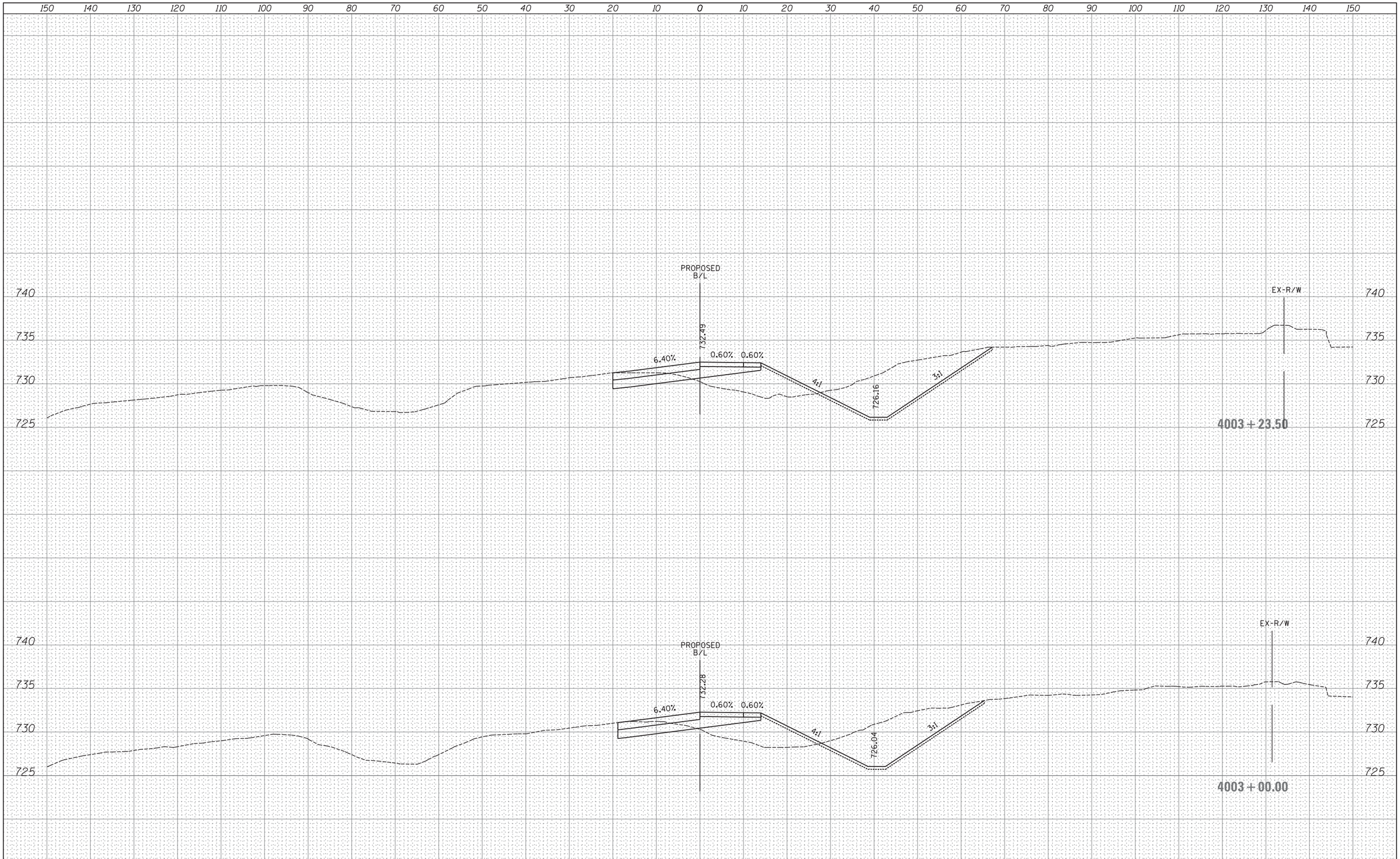
PROPOSED CROSS SECTIONS
WB EXIT RAMP

SCALE: 1" = 10' | SHEET 162 OF 202 SHEETS | STA. 4002+00.00 TO STA. 4002+43.66

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
47				

CONTRACT NO.

ILLINOIS FED. AID PROJECT



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

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

FILE NAME =	USER NAME = _USER_	DESIGNED -	REVISED -
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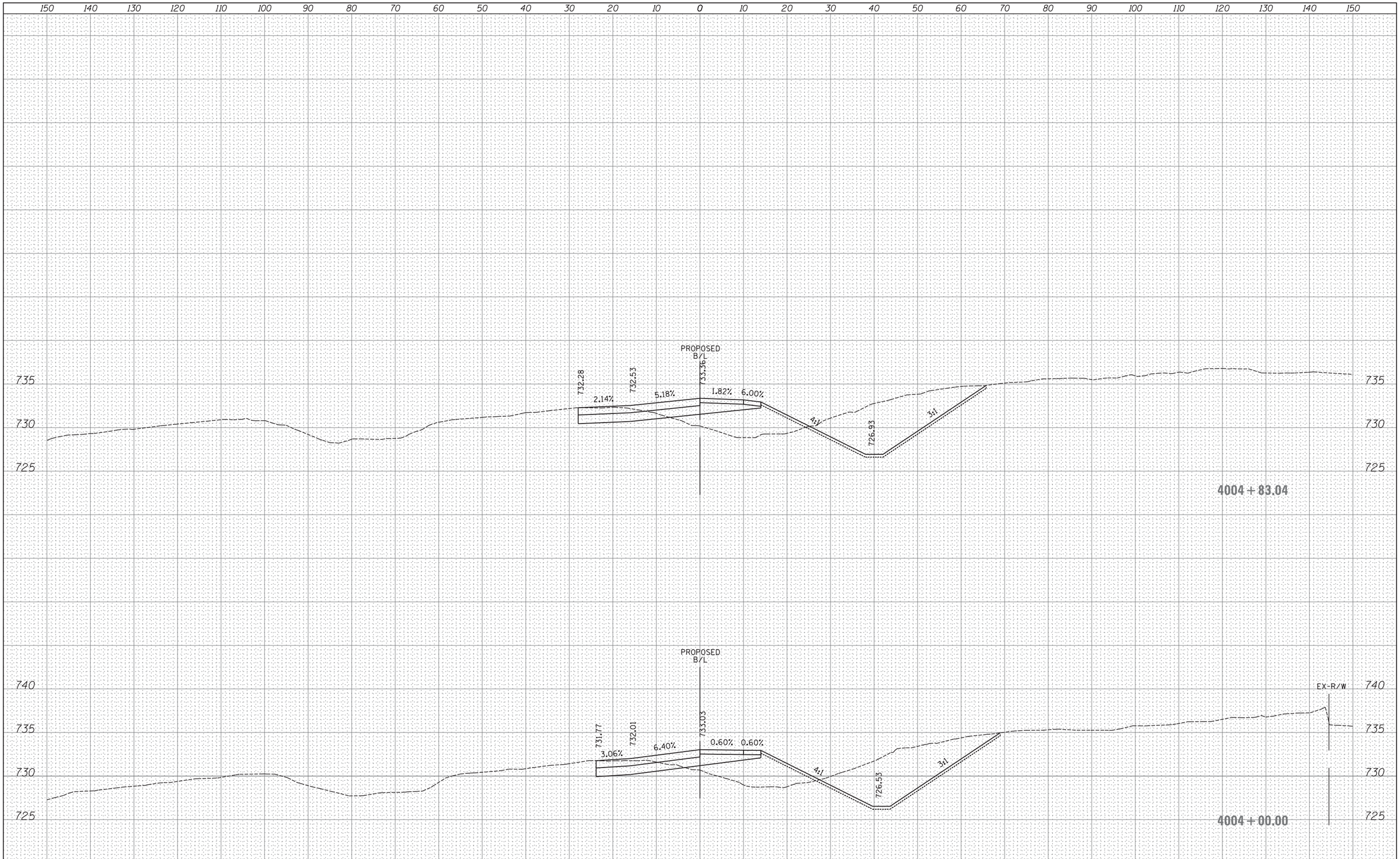
	PLOT SCALE = 10.0000 ' / in.	CHECKED -	REVISED -
$MODELNAME$	PLOT DATE = 06/25/18	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED CROSS SECTIONS
WB EXIT RAMP

SCALE: 1" = 10' | SHEET 163 OF 202 SHEETS | STA. 4003+00.00 TO STA. 4003+23.50

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
47				
		CONTRACT NO.		
		ILLINOIS FED. AID PROJECT		



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

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

FILE NAME =	USER NAME = _USER_	DESIGNED -	REVISED -
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	PLOT SCALE = 10.0000 ' / in.	CHECKED -	REVISED -
$MODELNAME$	PLOT DATE = 06/25/18	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

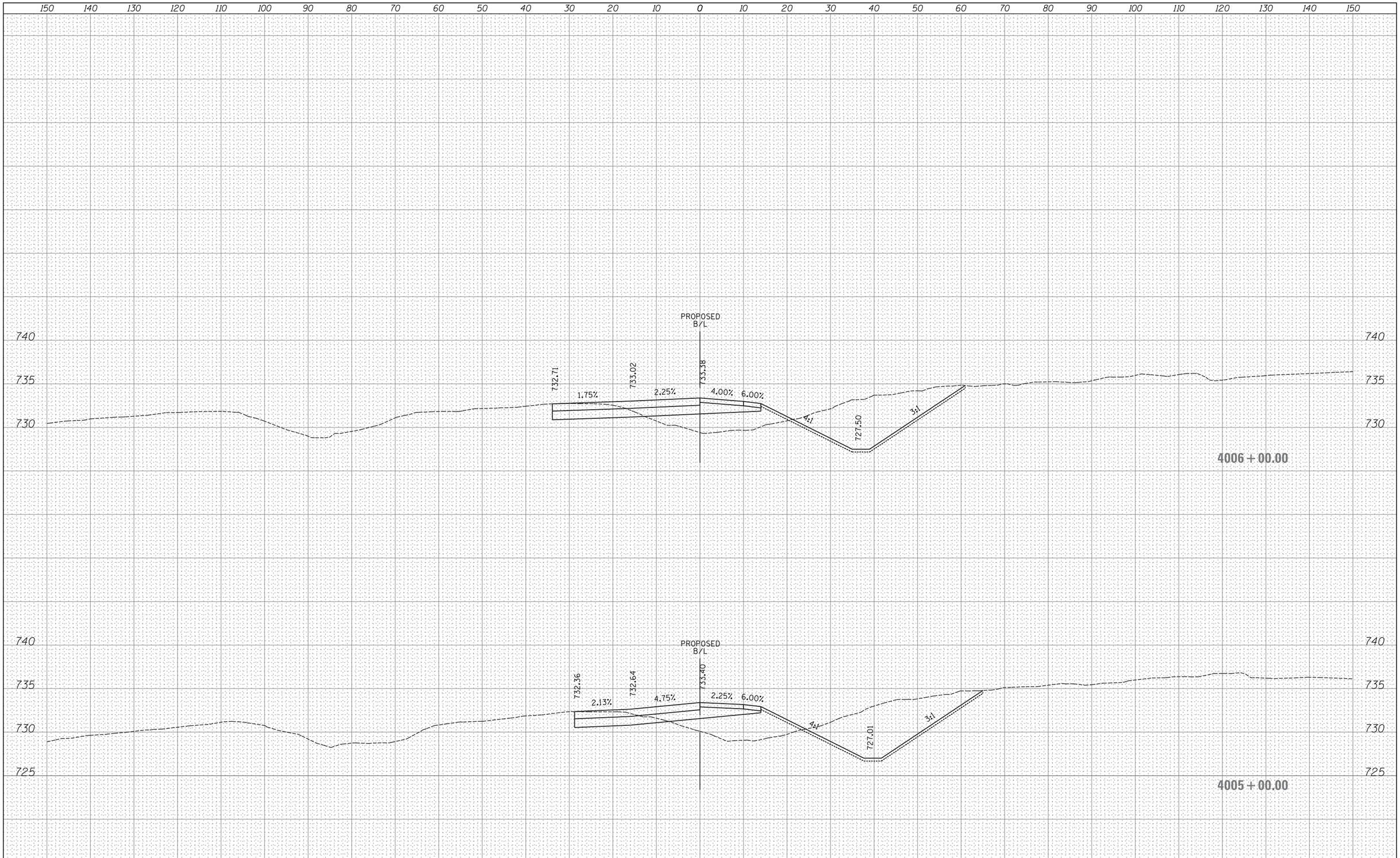
PROPOSED CROSS SECTIONS
WB EXIT RAMP

SCALE: 1" = 10' | SHEET 164 OF 202 SHEETS | STA. 4004+00.00 TO STA. 4004+83.04

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
47				

CONTRACT NO.

ILLINOIS FED. AID PROJECT



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

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

FILE NAME =	USER NAME = _USER_	DESIGNED -	REVISED -
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	PLOT SCALE = 10.0000 ' / in.	CHECKED -	REVISED -
$MODELNAME$	PLOT DATE = 06/25/18	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

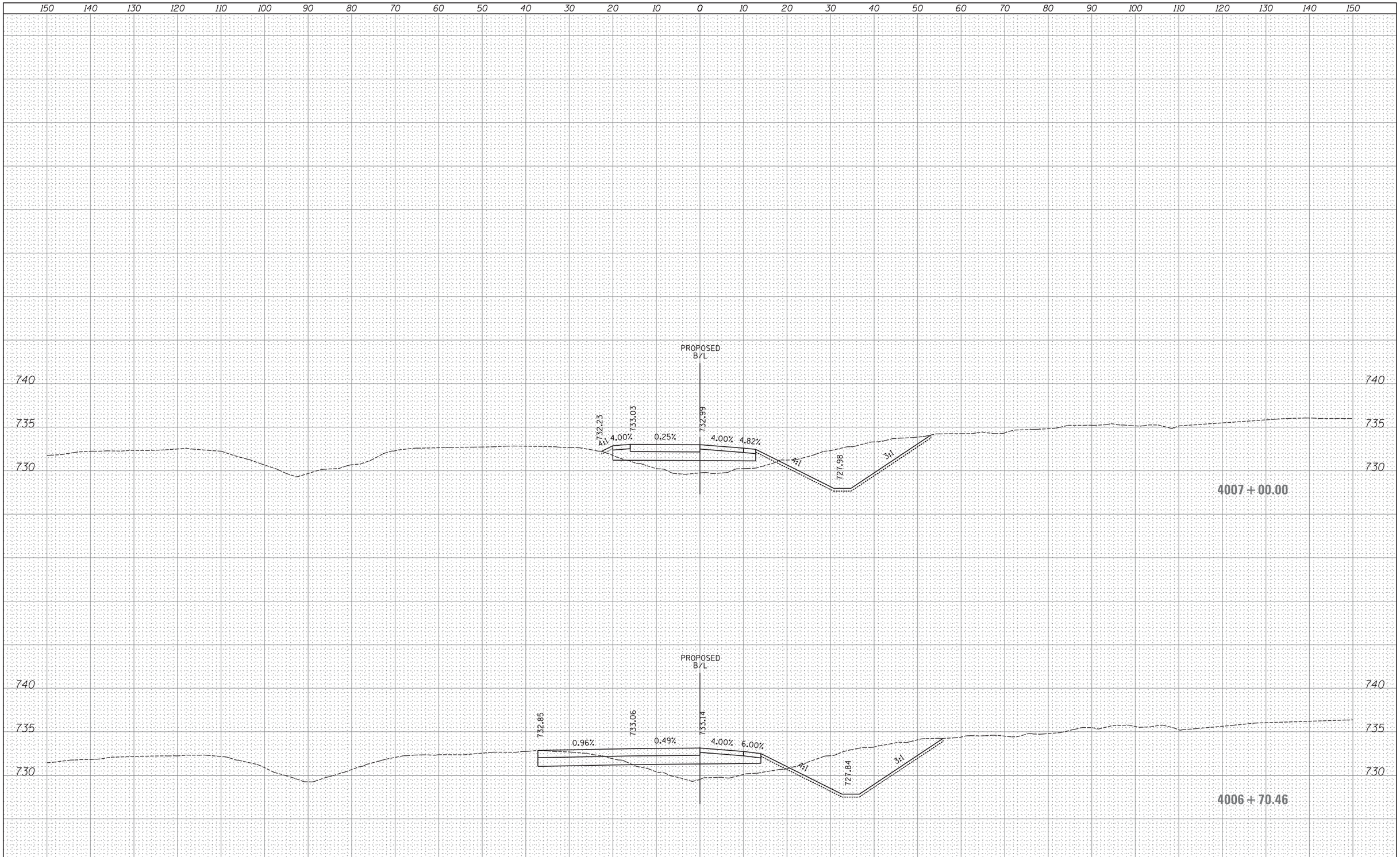
PROPOSED CROSS SECTIONS
WB EXIT RAMP

SCALE: 1" = 10' | SHEET 165 OF 202 SHEETS | STA. 4005+00.00 TO STA. 4006+00.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
47				

CONTRACT NO.

ILLINOIS FED. AID PROJECT



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

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

FILE NAME =	USER NAME = _USER_	DESIGNED -	REVISED -
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$MODELNAME$	PLOT DATE = 06/25/18	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

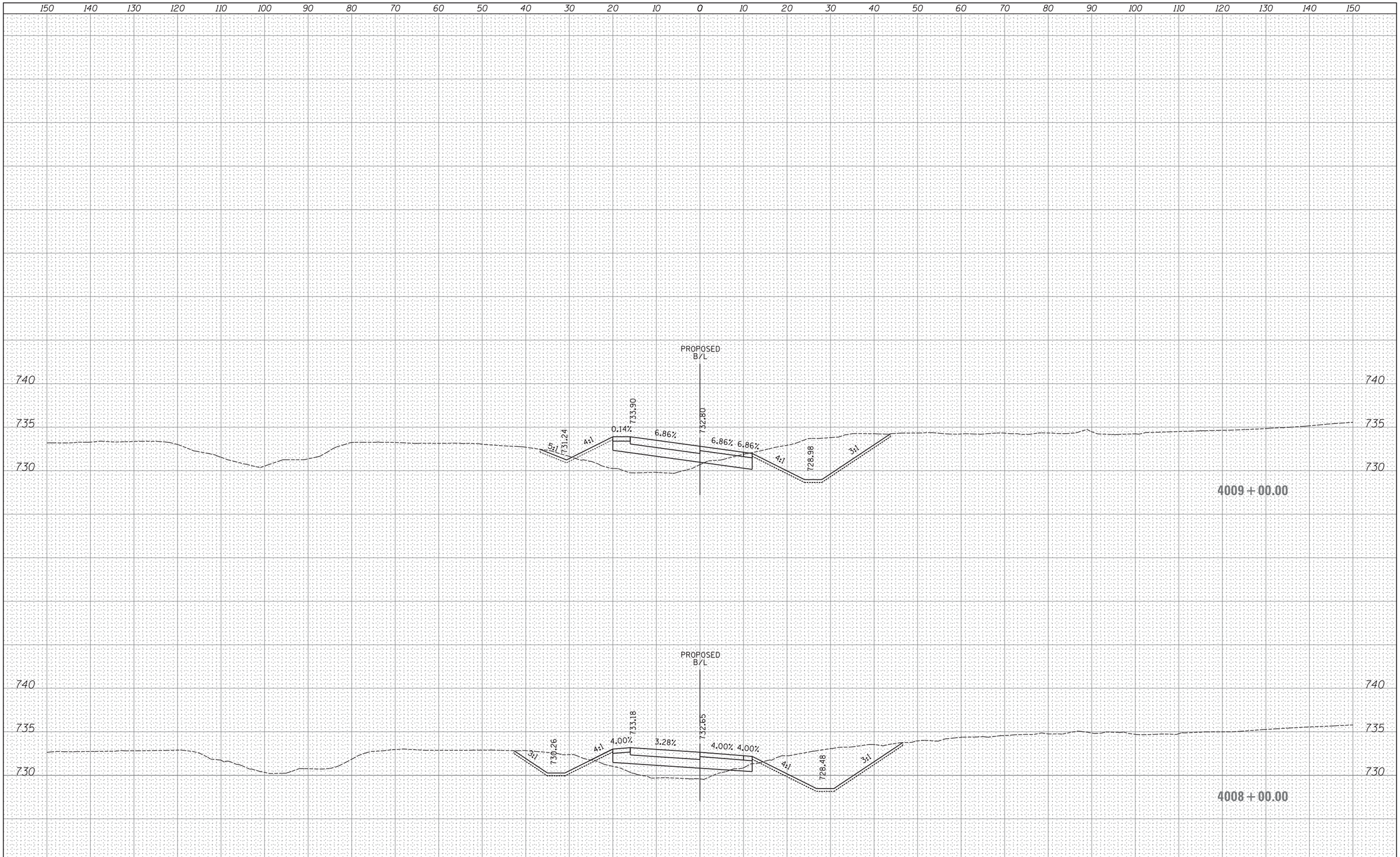
PROPOSED CROSS SECTIONS
WB EXIT RAMP

SCALE: 1" = 10' | SHEET 166 OF 202 SHEETS | STA. 4006+70.46 TO STA. 4007+00.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
47				

CONTRACT NO.

ILLINOIS | FED. AID PROJECT



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

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

FILE NAME =	USER NAME = _USER_	DESIGNED -	REVISED -
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	PLOT SCALE = 10.0000 ' / in.	CHECKED -	REVISED -
$MODELNAME$	PLOT DATE = 06/25/18	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

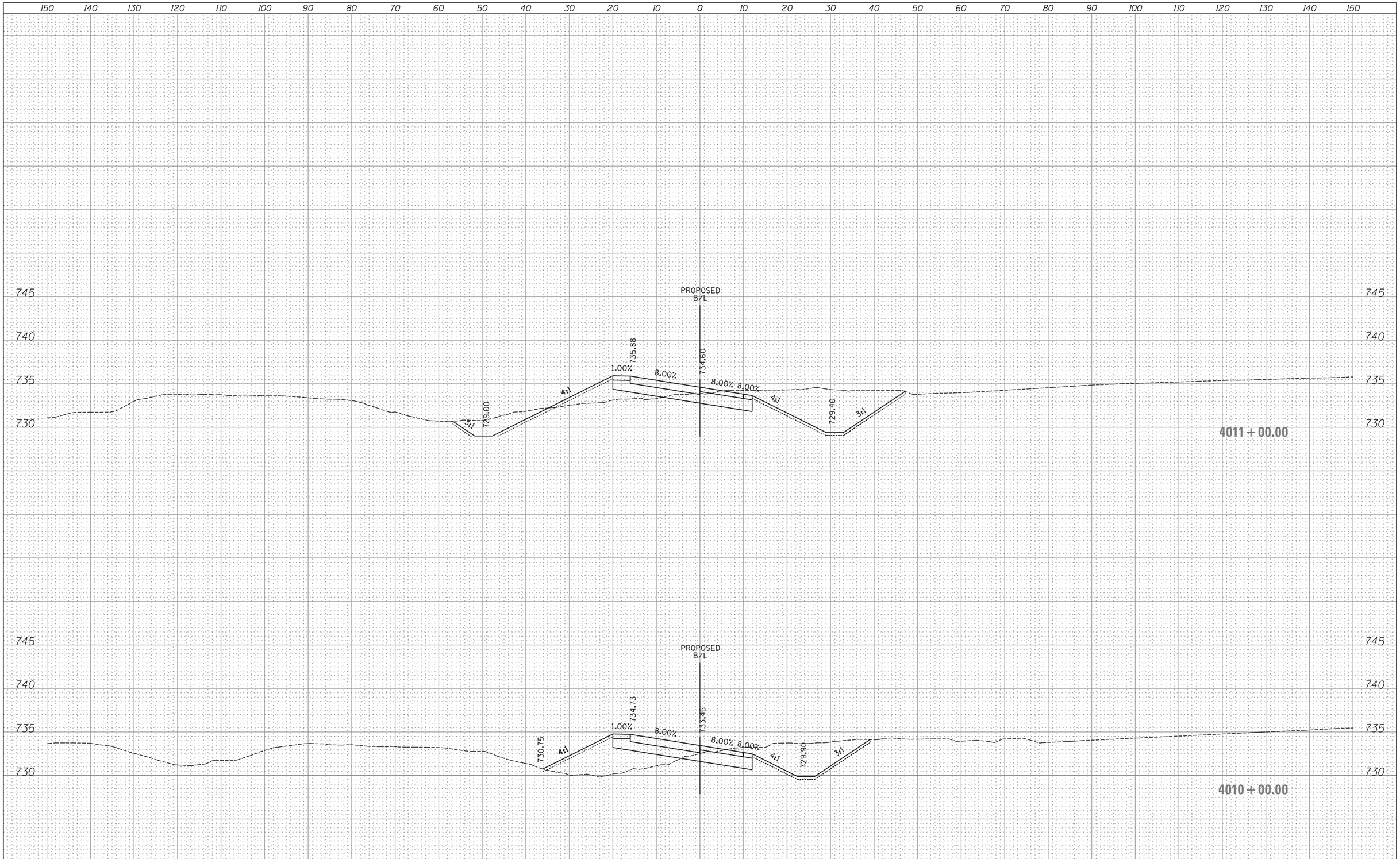
PROPOSED CROSS SECTIONS
WB EXIT RAMP

SCALE: 1" = 10' | SHEET 167 OF 202 SHEETS | STA. 4008+00.00 TO STA. 4009+00.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
47				

CONTRACT NO.

ILLINOIS FED. AID PROJECT



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

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

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	PLOT SCALE = 10.0000 ' / in.	CHECKED -	REVISED -
$MODELNAME$	PLOT DATE = 06/25/18	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

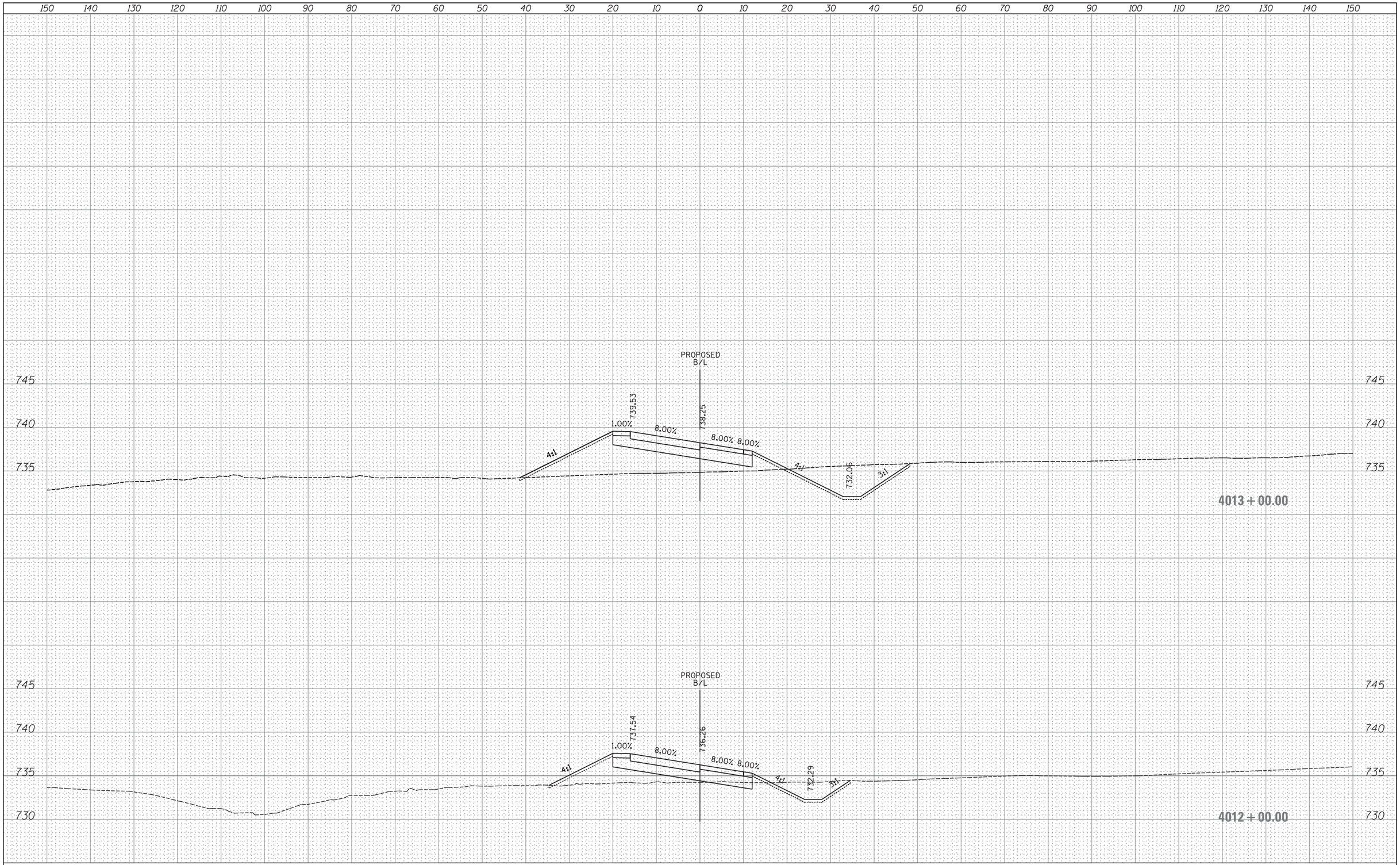
PROPOSED CROSS SECTIONS
WB EXIT RAMP

SCALE: 1" = 10' | SHEET 168 OF 202 SHEETS | STA. 4010+00.00 TO STA. 4011+00.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
47				

CONTRACT NO.

ILLINOIS FED. AID PROJECT



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

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

FILE NAME =	USER NAME = _USER_	DESIGNED -	REVISED -
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	PLOT SCALE = 10.0000 ' / in.	CHECKED -	REVISED -
$MODELNAME$	PLOT DATE = 06/25/18	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

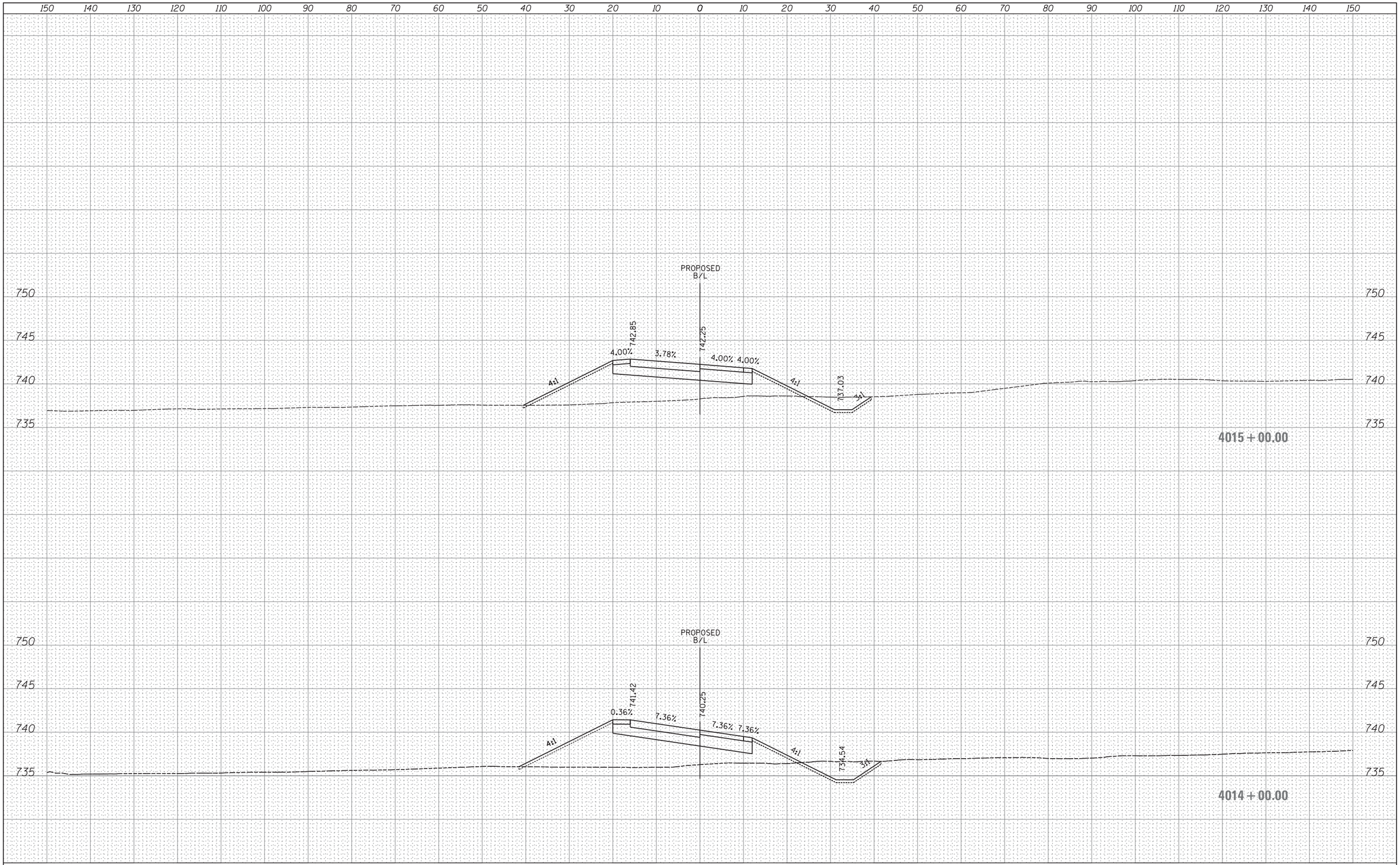
PROPOSED CROSS SECTIONS
WB EXIT RAMP

SCALE: 1" = 10' | SHEET 169 OF 202 SHEETS | STA. 4012+00.00 TO STA. 4013+00.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
47				

CONTRACT NO.

ILLINOIS FED. AID PROJECT



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$MODELNAME$	PLOT DATE = 06/25/18	CHECKED -	REVISED -
		DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED CROSS SECTIONS
WB EXIT RAMP

SCALE: 1" = 10' | SHEET 170 OF 202 SHEETS | STA. 4014+00.00 TO STA. 4015+00.00

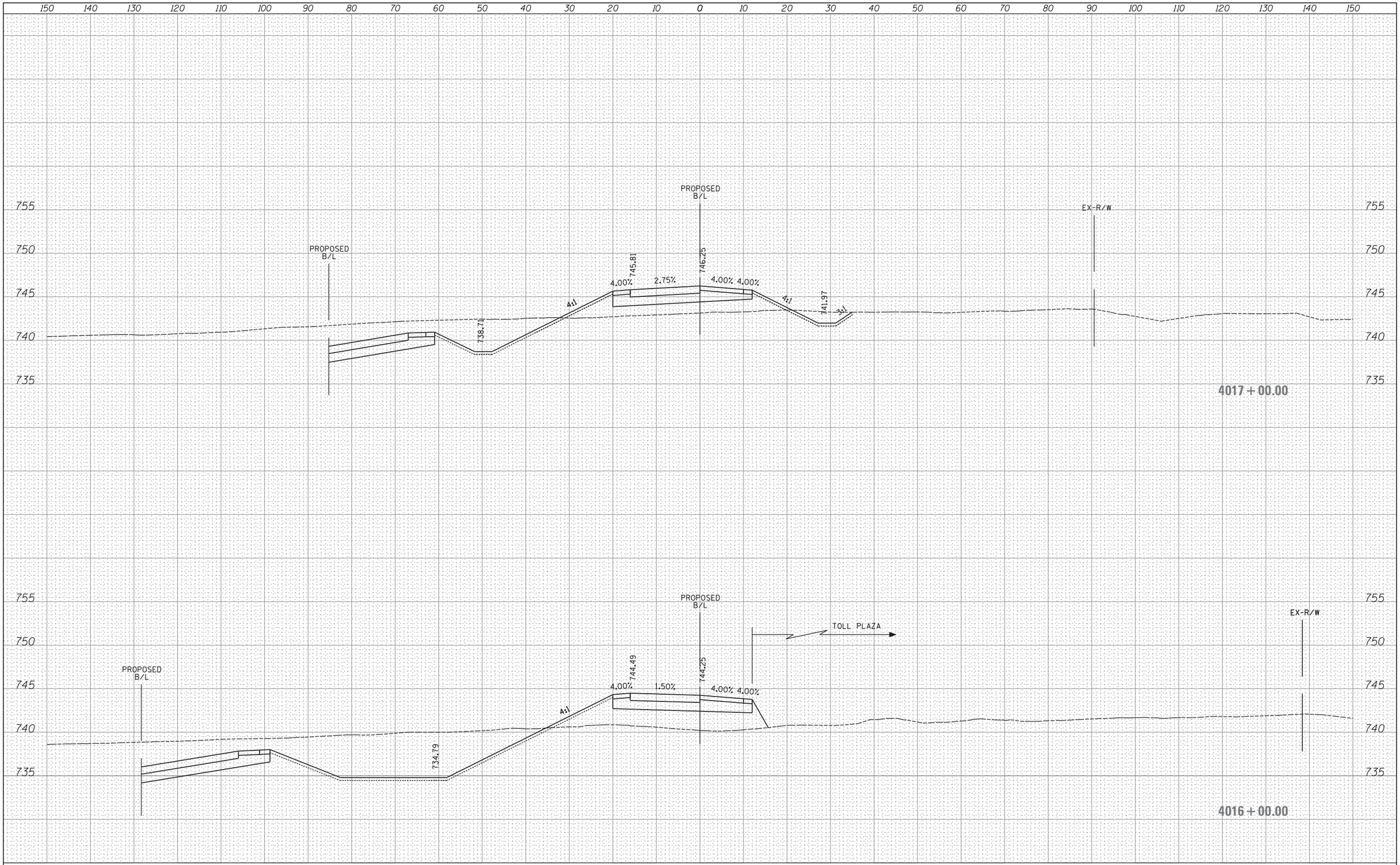
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
47				

CONTRACT NO.

ILLINOIS FED. AID PROJECT

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

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



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

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

FILE NAME =	USER NAME = _USER_	DESIGNED -	REVISED -
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$MODELNAME$	PLOT DATE = 06/25/18	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

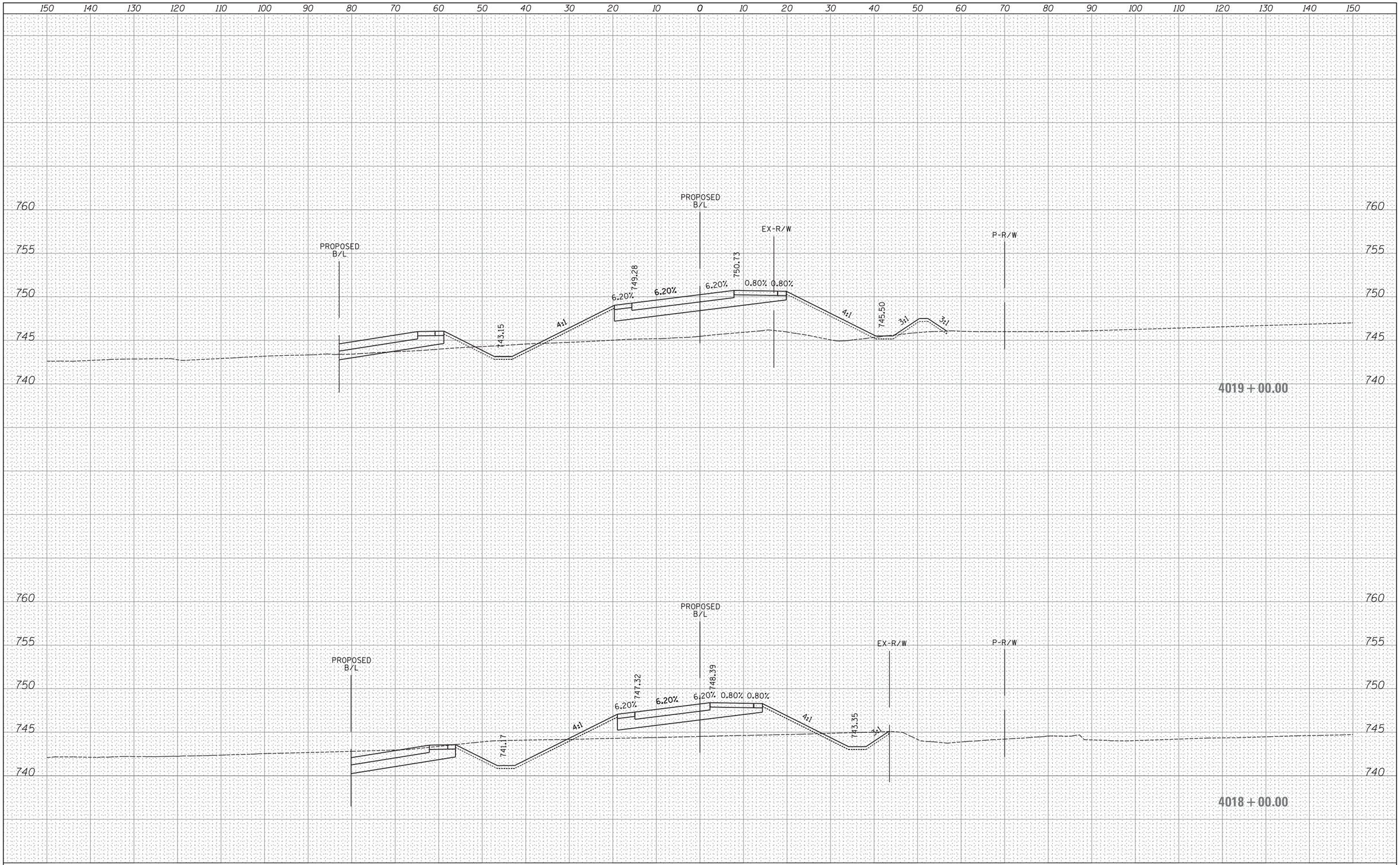
PROPOSED CROSS SECTIONS
WB EXIT RAMP

SCALE: 1" = 10' | SHEET 171 OF 202 SHEETS | STA. 4016+00.00 TO STA. 4017+00.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
47				

CONTRACT NO.

ILLINOIS FED. AID PROJECT



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

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

FILE NAME =
H:\Jobs2015\20153000\CAD\Transportation\dgn\00\DIXXXXX-sht-XS_WBexitramp.dgn

$MODELNAME$

USER NAME = _USER_
PLOT SCALE = 10.0000 ' / in.
PLOT DATE = 06/25/18

DESIGNED -
DRAWN -
CHECKED -
DATE -

REVISED -
REVISED -
REVISED -
REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

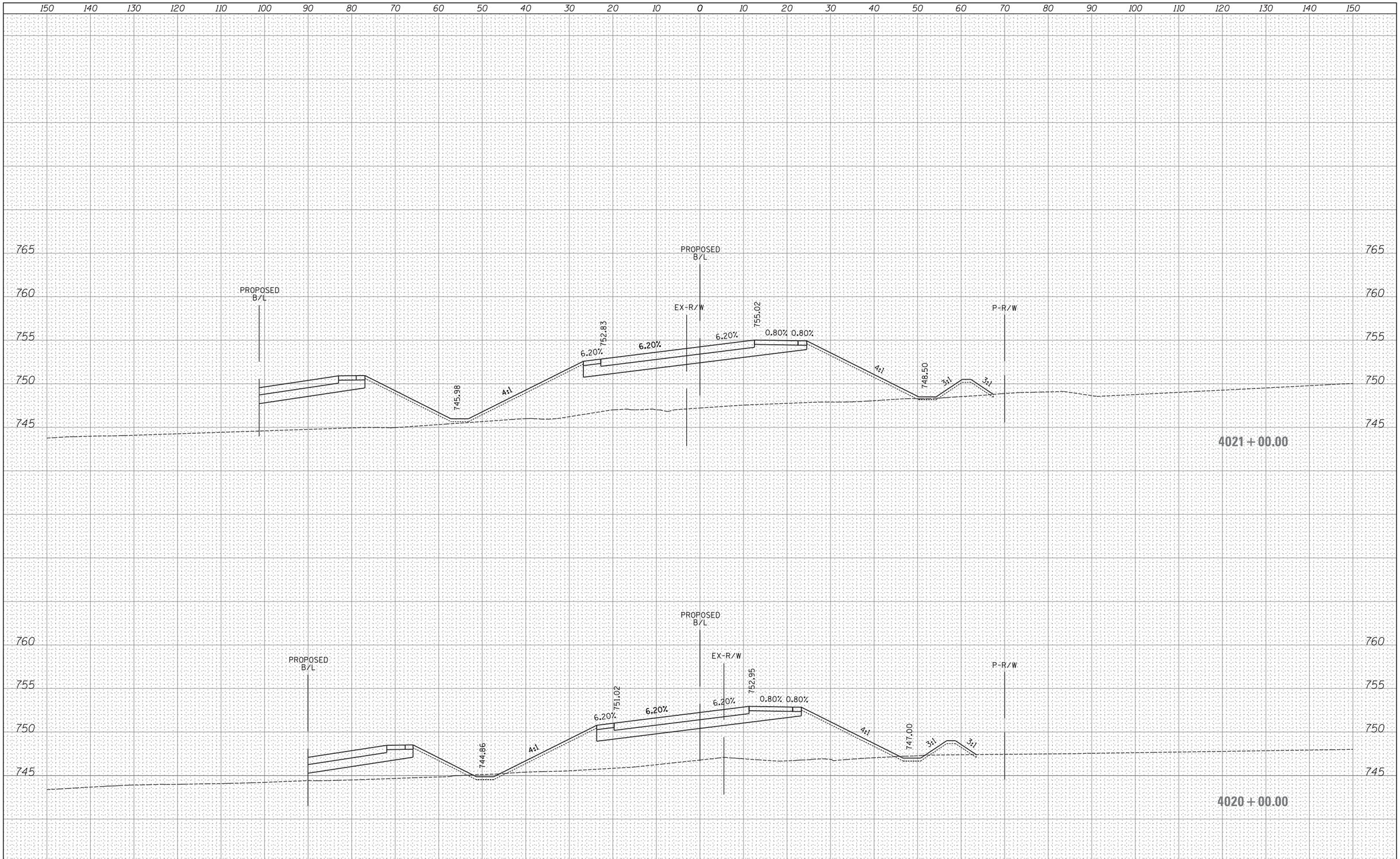
PROPOSED CROSS SECTIONS
WB EXIT RAMP

SCALE: 1" = 10' | SHEET 172 OF 202 SHEETS | STA. 4018+00.00 TO STA. 4019+00.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
47				

CONTRACT NO.

ILLINOIS FED. AID PROJECT



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

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

FILE NAME =
H:\Jobs2015\20153000\CAD\Transportation\dgn\00\DIXXXXX-sht-XS_WBexitramp.dgn
$MODELNAME$

USER NAME = _USER_
PLOT SCALE = 10.0000 ' / in.
PLOT DATE = 06/25/18

DESIGNED -
DRAWN -
CHECKED -
DATE -

REVISED -
REVISED -
REVISED -
REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

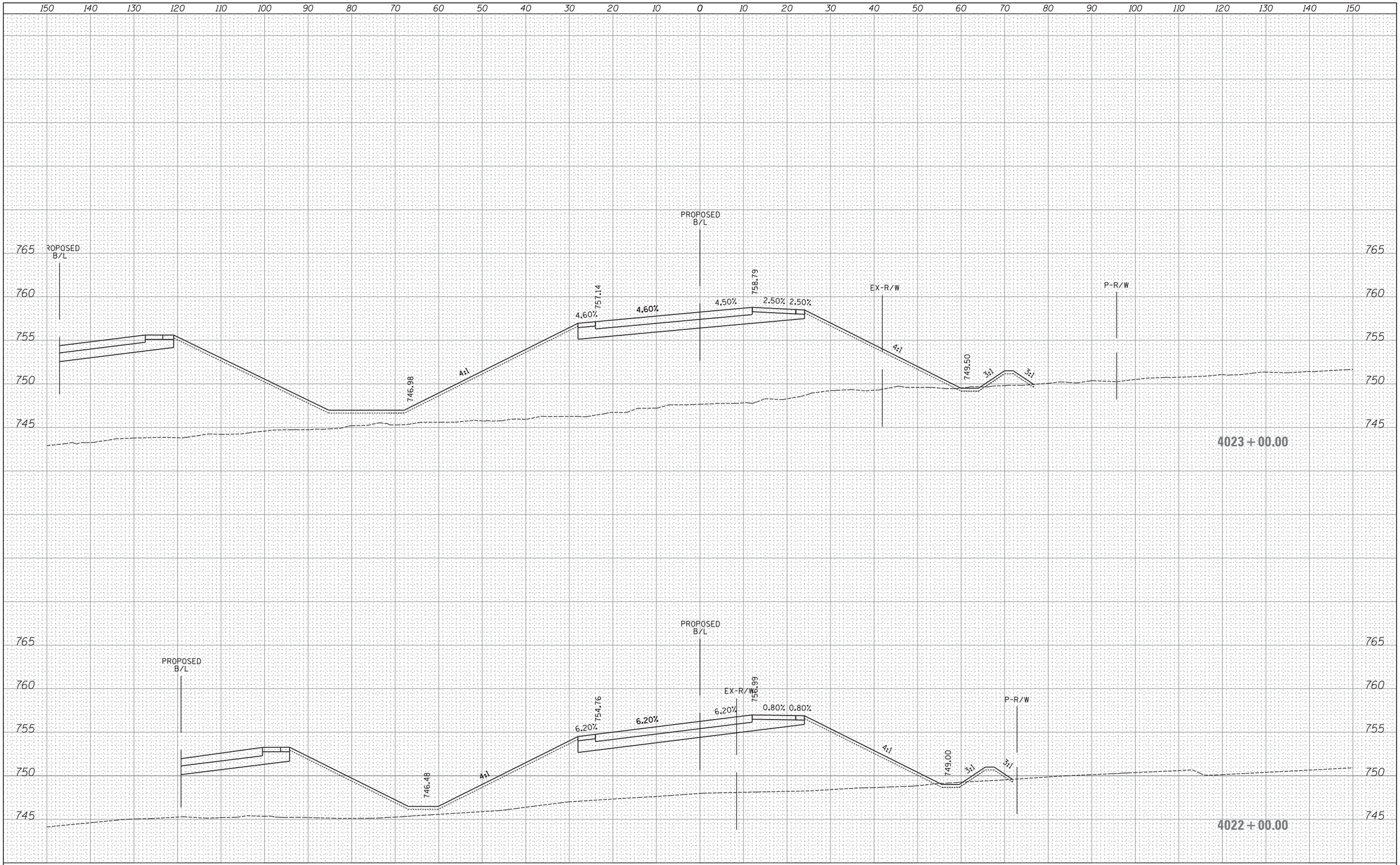
PROPOSED CROSS SECTIONS
WB EXIT RAMP

SCALE: 1" = 10' | SHEET 173 OF 202 SHEETS | STA. 4020+00.00 TO STA. 4021+00.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
47				

CONTRACT NO.

ILLINOIS FED. AID PROJECT



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

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

FILE NAME = H:\Jobs2015\20153000\CAD\Transportation\dgn\00\DIXXXXX-sht-XS_WBexitramp.dgn	USER NAME = _USER_	DESIGNED -	REVISED -
		DRAWN -	REVISED -
	PLOT SCALE = 10.0000 ' / in.	CHECKED -	REVISED -
$MODELNAME$	PLOT DATE = 06/25/18	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

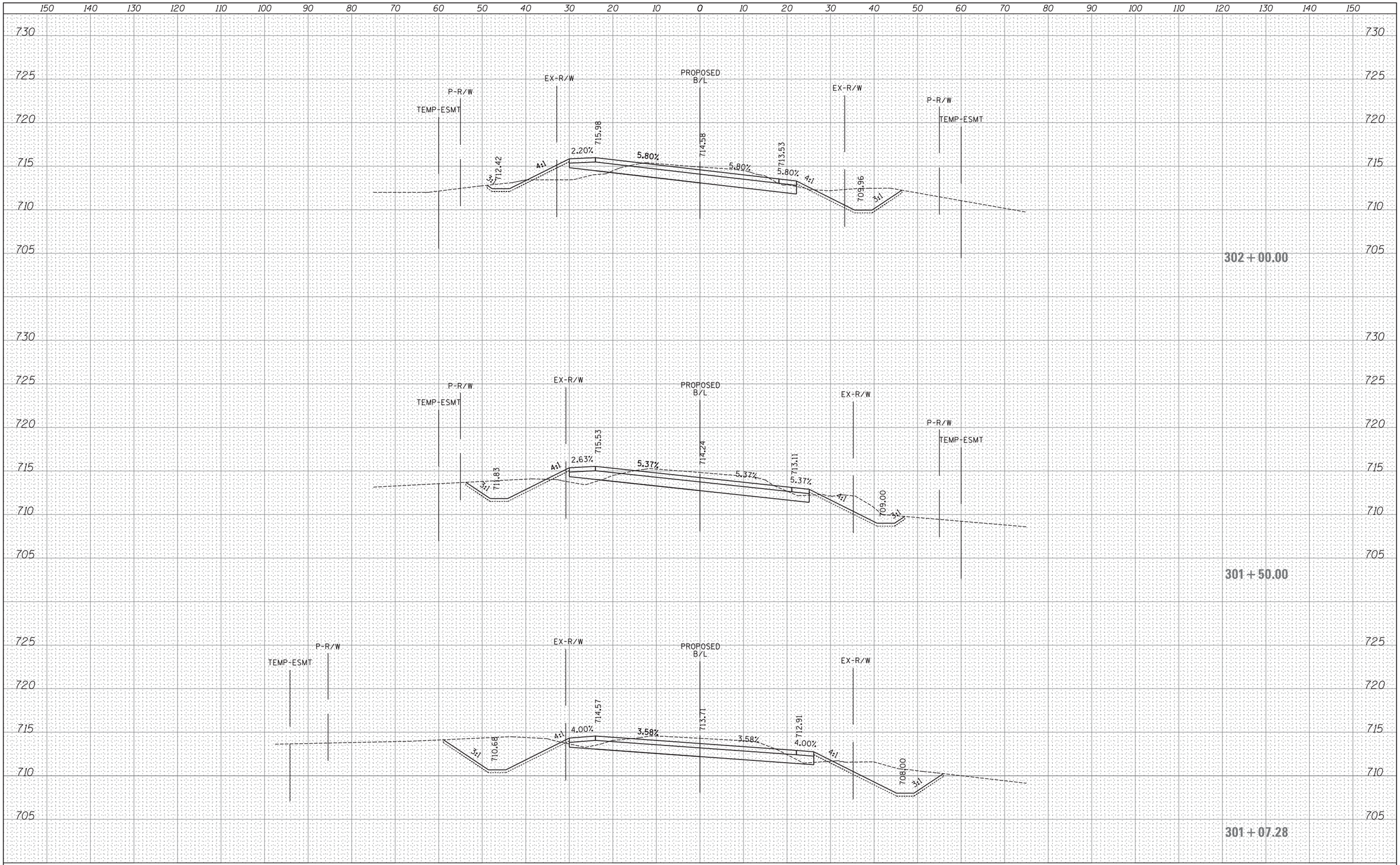
PROPOSED CROSS SECTIONS
WB EXIT RAMP

SCALE: 1" = 10' | SHEET 174 OF 202 SHEETS | STA. 4022+00.00 TO STA. 4023+00.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
47				

CONTRACT NO.

ILLINOIS FED. AID PROJECT



FILE NAME =	USER NAME = _USER_	DESIGNED -	REVISED -
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	PLOT SCALE = 10.0000 ' / in.	CHECKED -	REVISED -
$MODELNAME$	PLOT DATE = 06/25/18	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

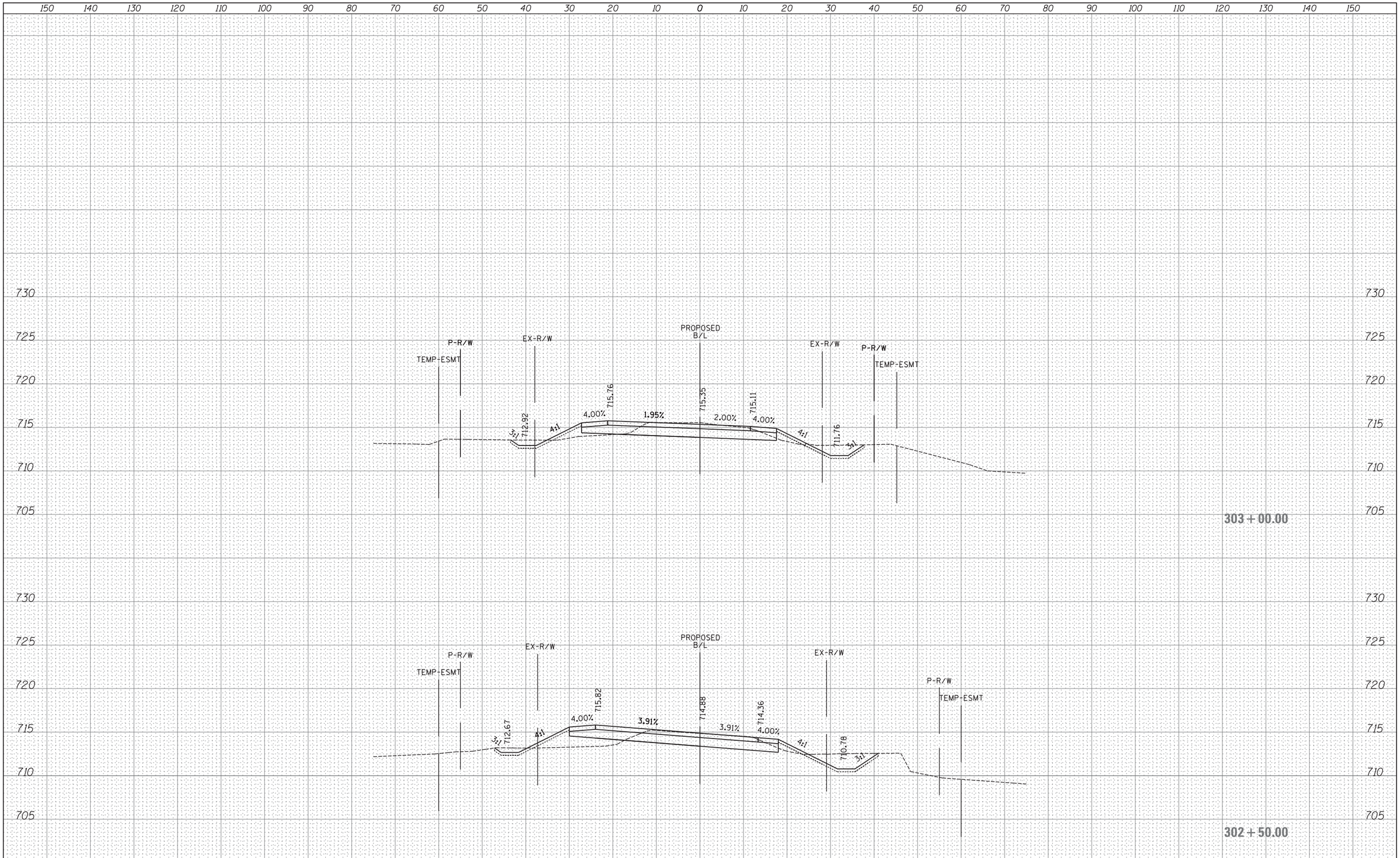
PROPOSED CROSS SECTIONS
MERRILL ROAD

SCALE: 1" = 10' | SHEET 175 OF 202 SHEETS | STA. 301+07.28 TO STA. 302+00.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
47				
		CONTRACT NO.		
		ILLINOIS FED. AID PROJECT		

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

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



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

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

FILE NAME = H:\Jobs2015\20153000\CAD\Transportation\dgn\00\DIXXXXX-sht-XS_merrill.dgn	USER NAME = _USER_	DESIGNED -	REVISED -
		DRAWN -	REVISED -
	PLOT SCALE = 10.0000 ' / in.	CHECKED -	REVISED -
$MODELNAME$	PLOT DATE = 06/25/18	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

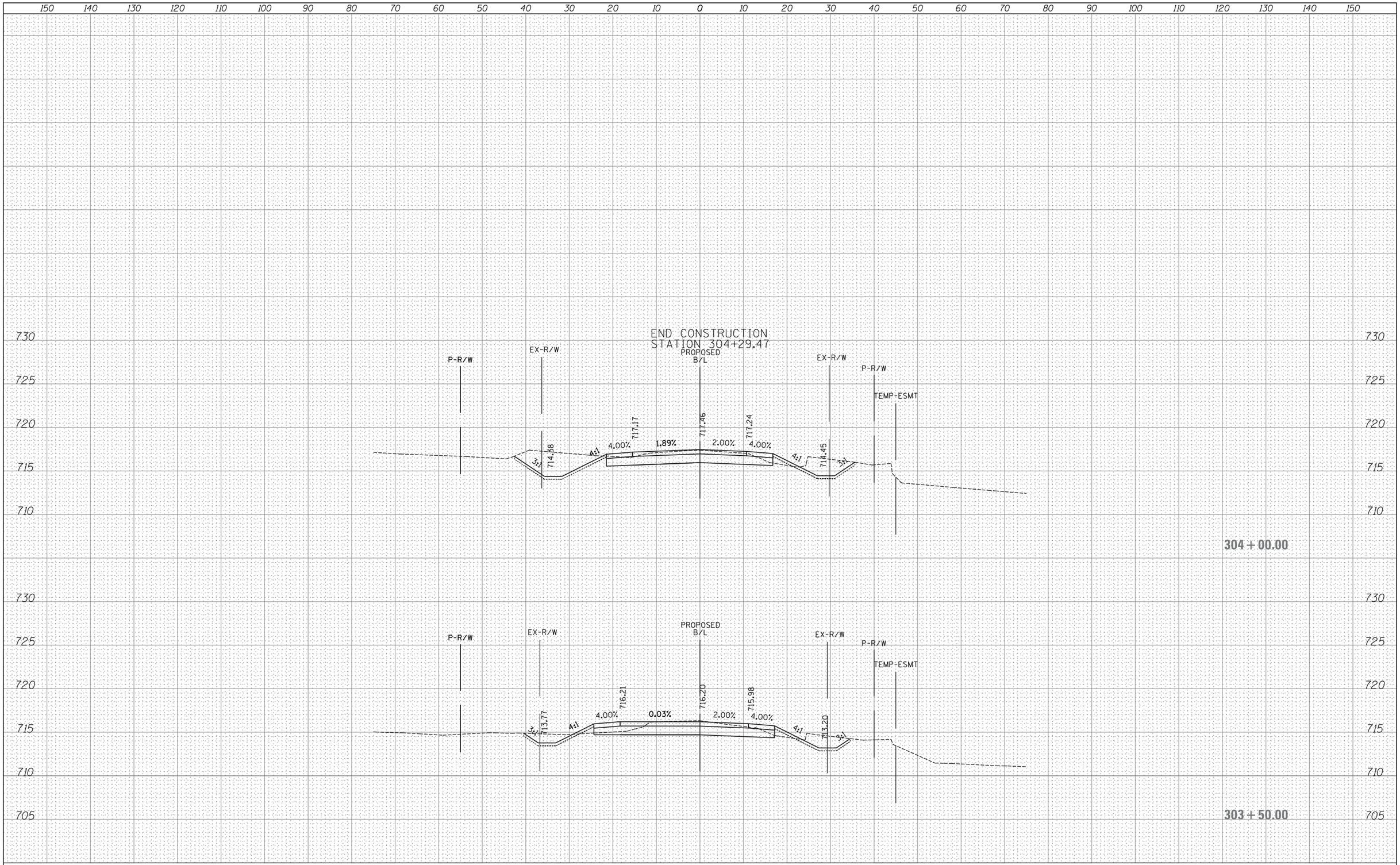
PROPOSED CROSS SECTIONS
MERRILL ROAD

SCALE: 1" = 10' | SHEET 176 OF 202 SHEETS | STA. 302+50.00 TO STA. 303+00.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
47				

CONTRACT NO.

ILLINOIS FED. AID PROJECT



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

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

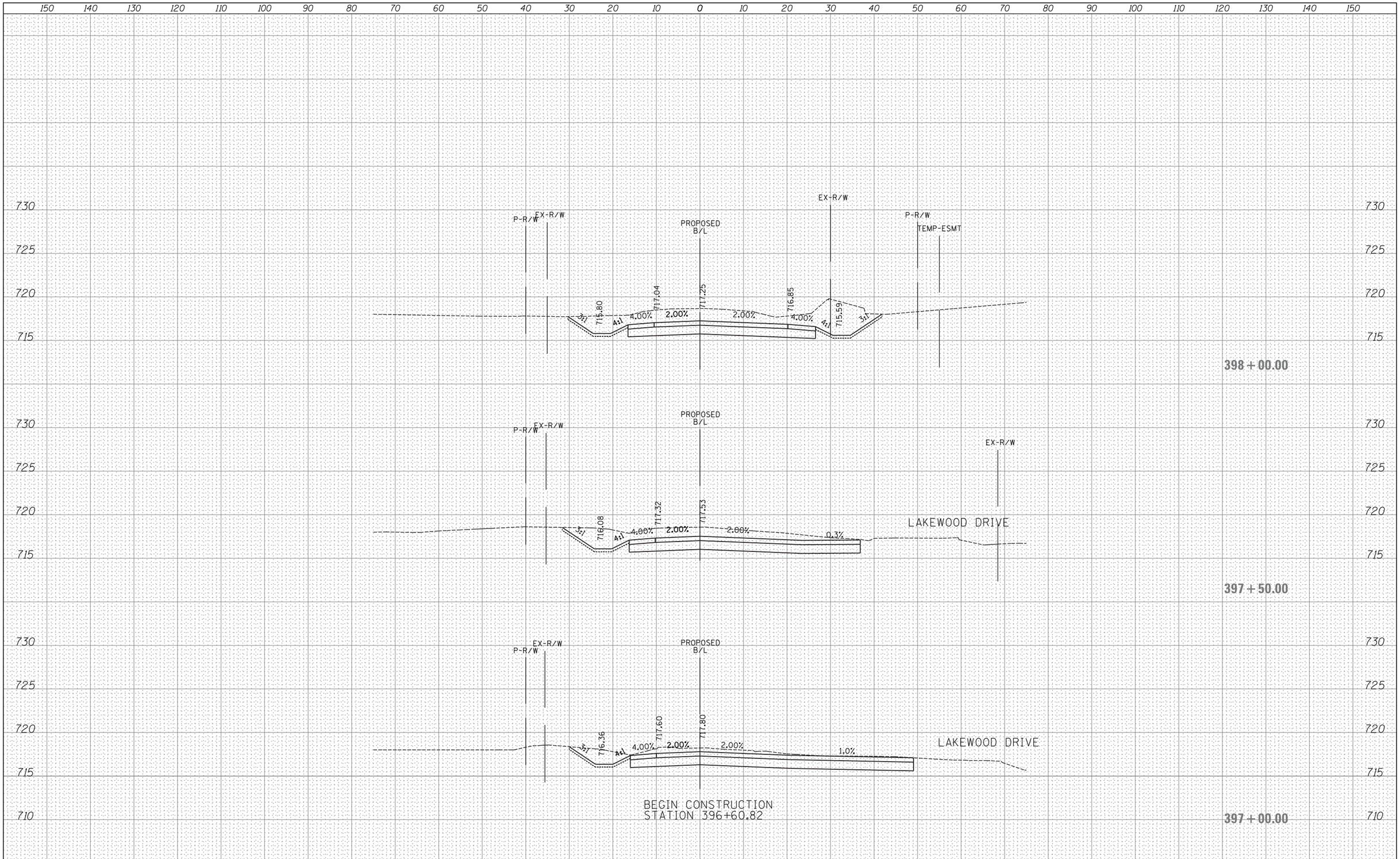
FILE NAME =	USER NAME = _USER_	DESIGNED -	REVISED -
H:\Jobs2015\20153000\CAD\Transportation\dgn\00\DIXXXXX-sht-XS_merrill.dgn		DRAWN -	REVISED -
	PLOT SCALE = 10.0000 ' / in.	CHECKED -	REVISED -
$MODELNAME$	PLOT DATE = 06/25/18	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED CROSS SECTIONS
MERRILL ROAD

SCALE: 1" = 10' | SHEET 177 OF 202 SHEETS | STA. 303+50.00 TO STA. 304+00.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
47				
		CONTRACT NO.		
		ILLINOIS FED. AID PROJECT		



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

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

FILE NAME =
H:\Jobs2015\20153000\CAD\Transportation\dgn\00\DIXXXXX-sht-XS_scott.dgn
$MODELNAME$

USER NAME = _USER_
PLOT SCALE = 10.0000 ' / in.
PLOT DATE = 06/25/18

DESIGNED -
DRAWN -
CHECKED -
DATE -

REVISED -
REVISED -
REVISED -
REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

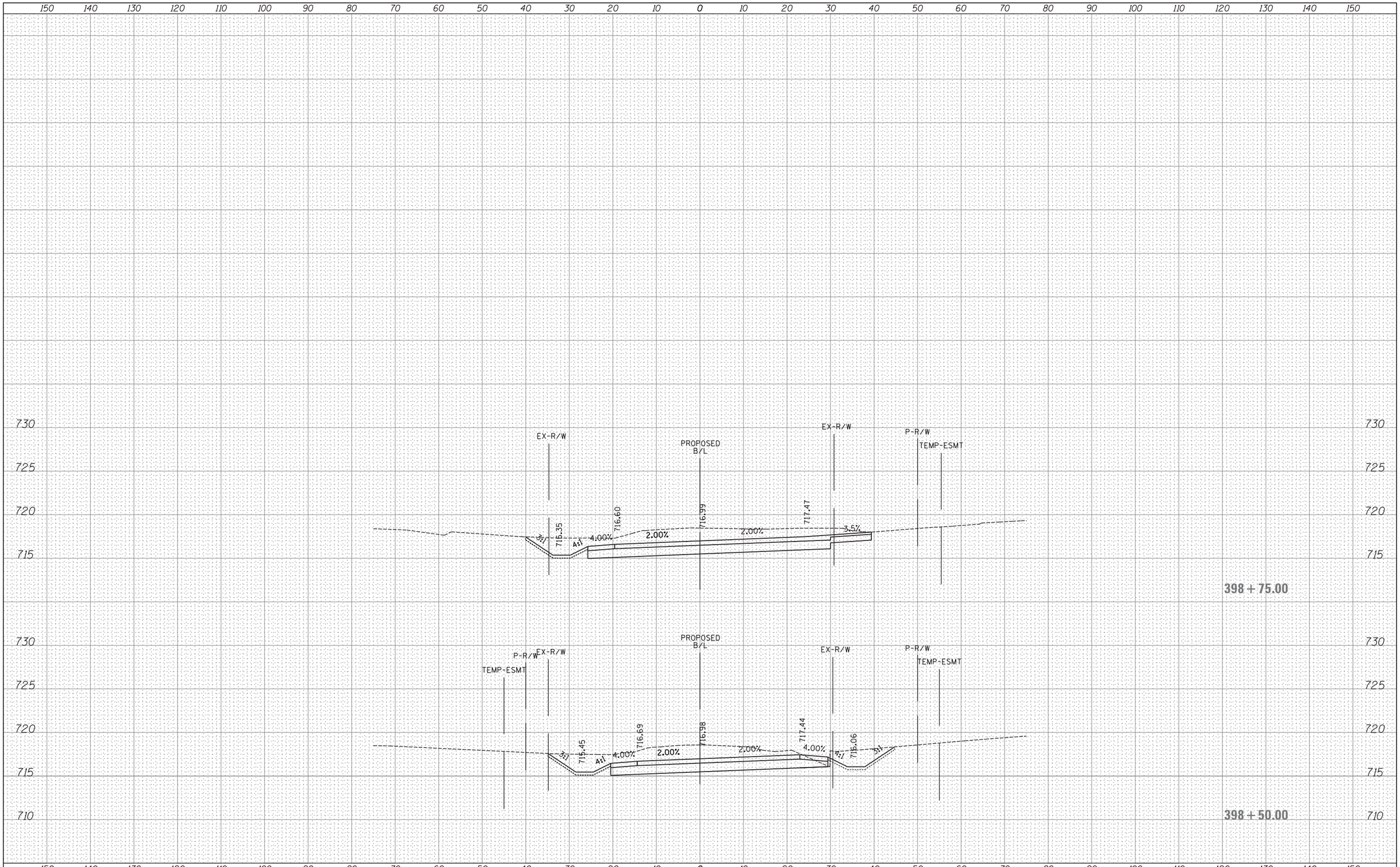
PROPOSED CROSS SECTIONS
SCOTT ROAD

SCALE: 1" = 10' | SHEET 178 OF 202 SHEETS | STA. 397+00.00 TO STA. 398+00.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
47				

CONTRACT NO.

ILLINOIS FED. AID PROJECT



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

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

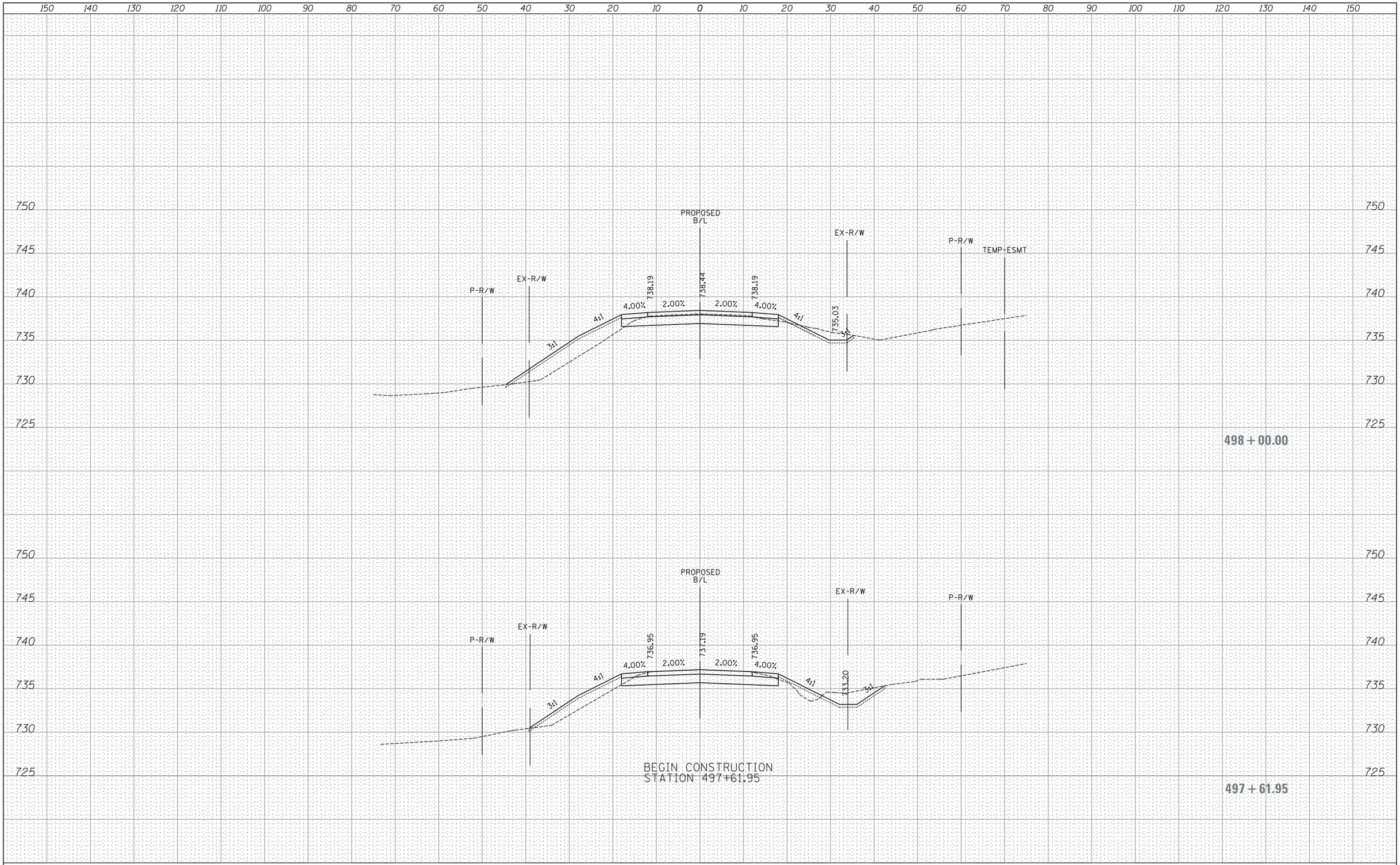
FILE NAME =	USER NAME = _USER_	DESIGNED -	REVISED -
H:\Jobs2015\20153000\CAD\Transportation\dgn\00\DIXXXXX-sht-XS_scott.dgn		DRAWN -	REVISED -
	PLOT SCALE = 10.0000 ' / in.	CHECKED -	REVISED -
$MODELNAME$	PLOT DATE = 06/25/18	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED CROSS SECTIONS
SCOTT ROAD

SCALE: 1" = 10' | SHEET 179 OF 202 SHEETS | STA. 398+50.00 TO STA. 398+75.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
47				
		CONTRACT NO.		
		ILLINOIS FED. AID PROJECT		



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

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

FILE NAME =	USER NAME = _USER_	DESIGNED -	REVISED -
H:\Jobs2015\20153000\CAD\Transportation\dgn\00\DIXXXXX-sht-XS_finley.dgn		DRAWN -	REVISED -
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$MODELNAME$	PLOT DATE = 06/25/18	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

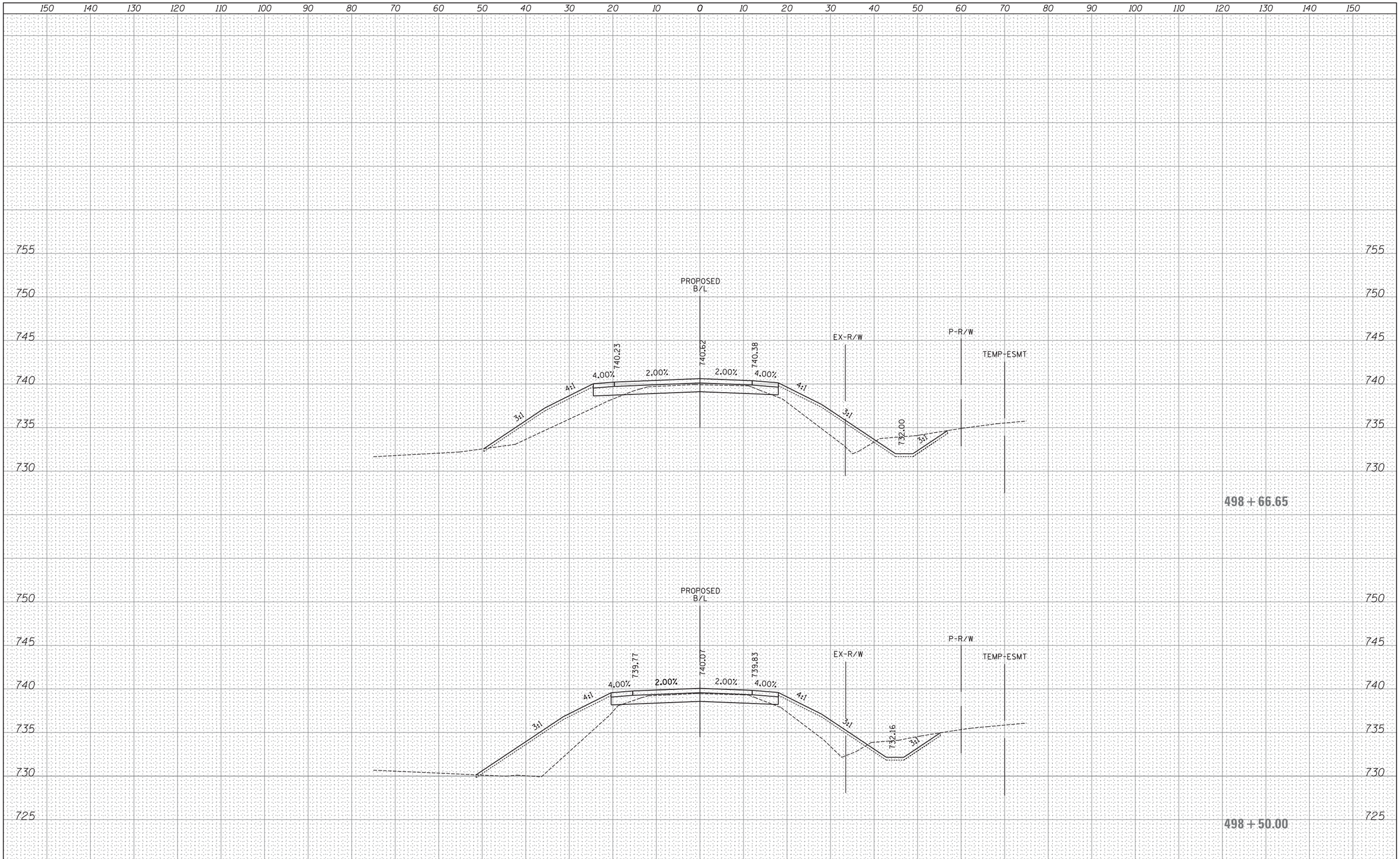
PROPOSED CROSS SECTIONS
FINLEY ROAD

SCALE: 1" = 10' | SHEET 180 OF 202 SHEETS | STA. 497+61.95 TO STA. 498+00.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
47				

CONTRACT NO.

ILLINOIS FED. AID PROJECT



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

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

FILE NAME =
H:\Jobs2015\20153000\CAD\Transportation\dgn\00\DIXXXXX-sht-XS_finley.dgn

$MODELNAME$

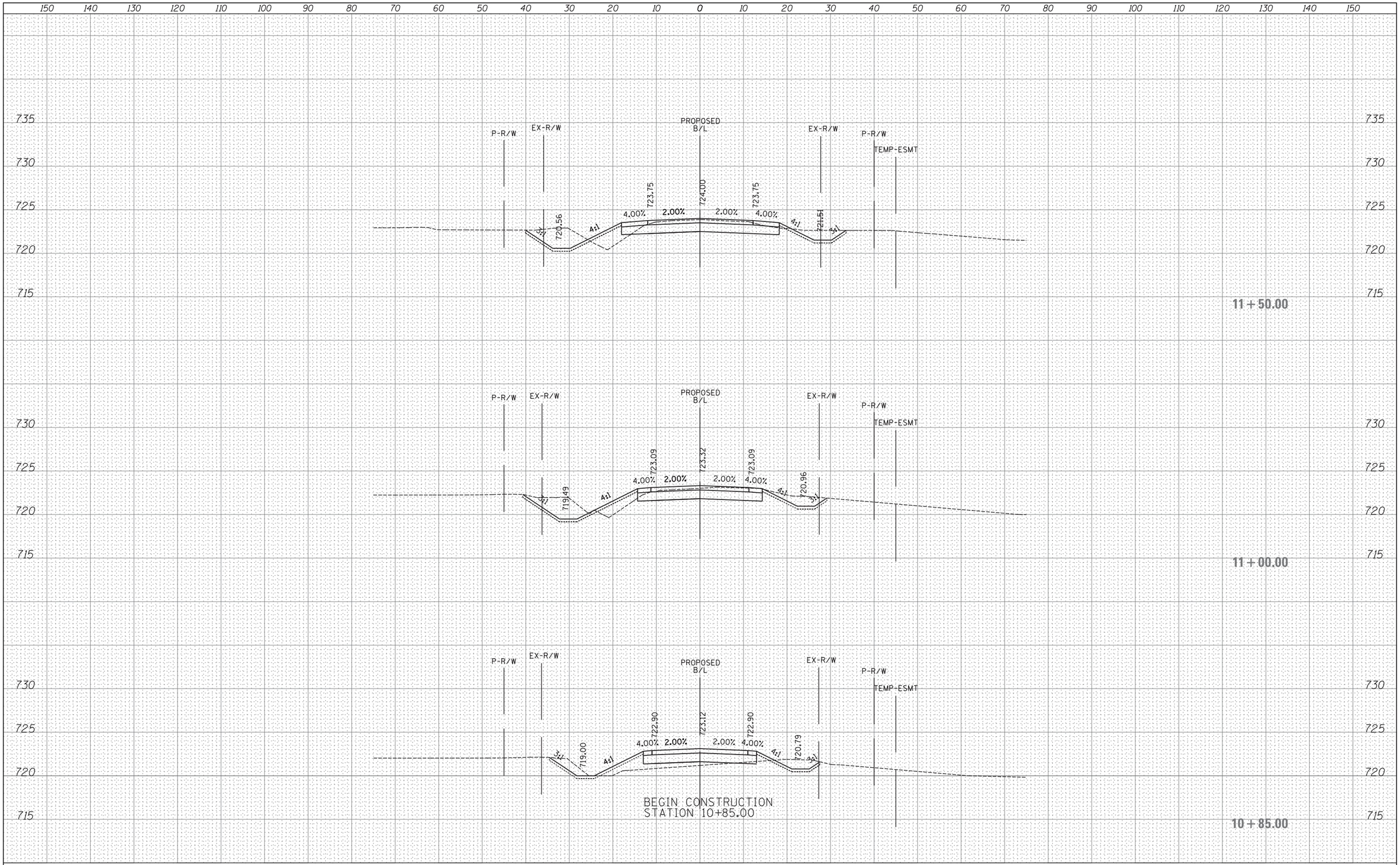
USER NAME = _USER_	DESIGNED -	REVISED -	
	DRAWN -	REVISED -	
PLOT SCALE = 10.0000 ' / in.	CHECKED -	REVISED -	
PLOT DATE = 06/25/18	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED CROSS SECTIONS
FINLEY ROAD

SCALE: 1" = 10' | SHEET 181 OF 202 SHEETS | STA. 498+50.00 TO STA. 498+66.65

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
47				
		CONTRACT NO.		
	ILLINOIS	FED. AID PROJECT		



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

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

FILE NAME =	USER NAME = _USER_	DESIGNED -	REVISED -
H:\Jobs2015\20153000\CAD\Transportation\dgn\00\DIXXXXX-sht-XS_seavey_West.dgn		DRAWN -	REVISED -
	PLOT SCALE = 10.0000 ' / in.	CHECKED -	REVISED -
$MODELNAME$	PLOT DATE = 06/25/18	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

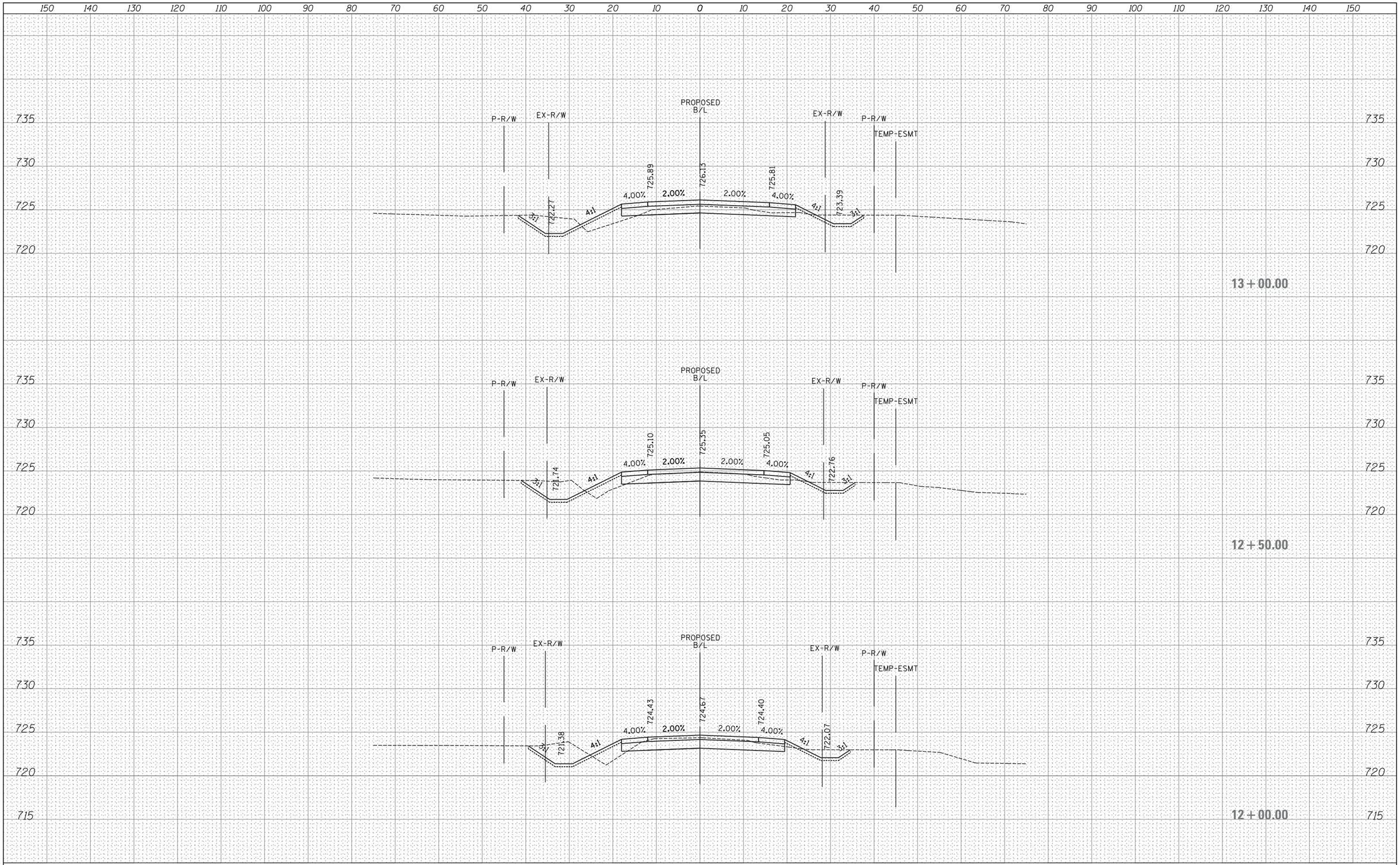
PROPOSED CROSS SECTIONS
SEAVEY ROAD

SCALE: 1" = 10' | SHEET 182 OF 202 SHEETS | STA. 10+85.00 TO STA. 11+50.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
47				

CONTRACT NO.

ILLINOIS FED. AID PROJECT



FILE NAME =	USER NAME = _USER_	DESIGNED -	REVISED -
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$MODELNAME$	PLOT DATE = 06/25/18	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED CROSS SECTIONS
SEAVEY ROAD

SCALE: 1" = 10' | SHEET 183 OF 202 SHEETS | STA. 12+00.00 TO STA. 13+00.00

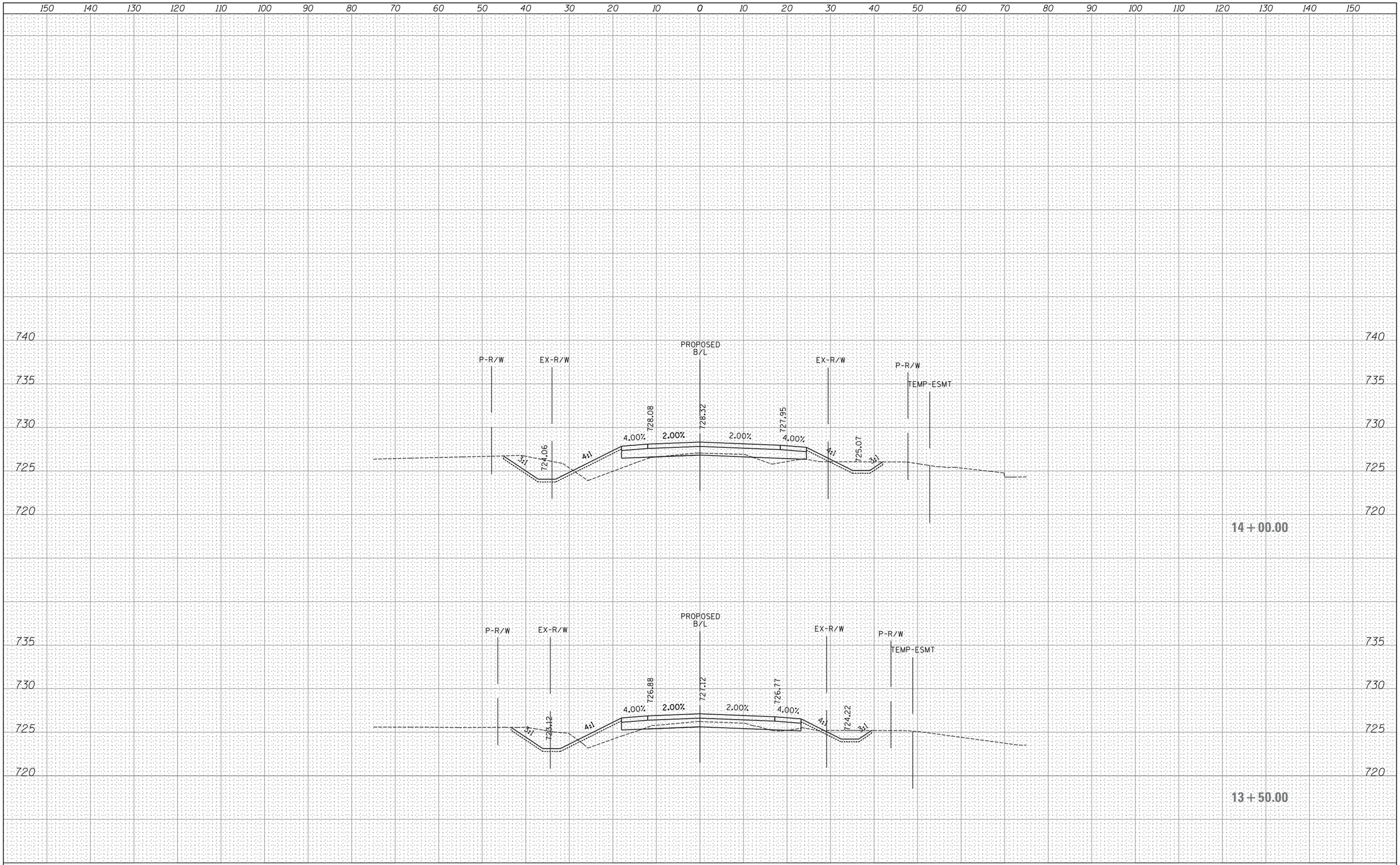
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
47				

CONTRACT NO.

ILLINOIS FED. AID PROJECT

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

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



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

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

FILE NAME =	USER NAME = _USER_	DESIGNED -	REVISED -
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$MODELNAME$	PLOT DATE = 06/25/18	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

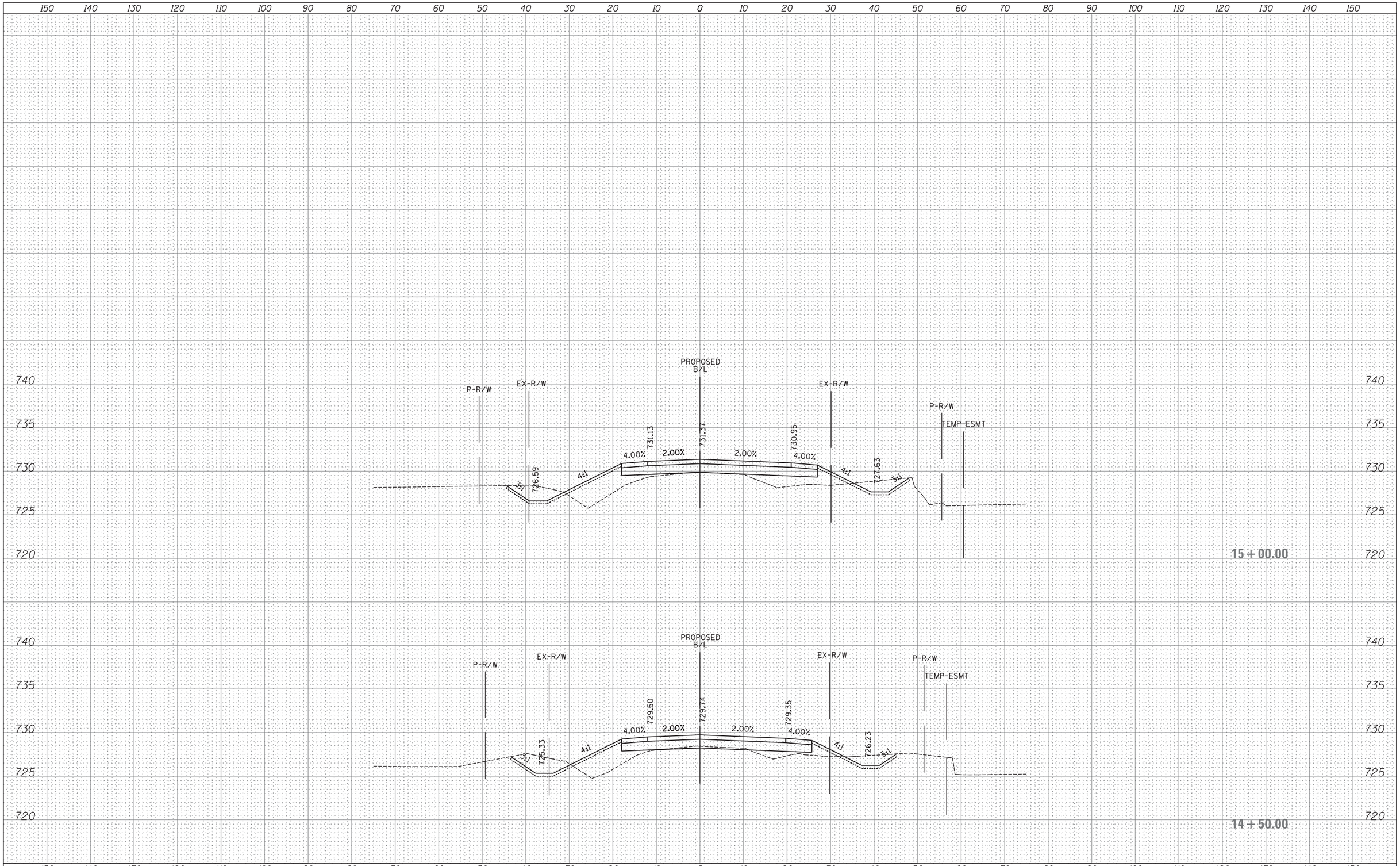
PROPOSED CROSS SECTIONS
SEAVEY ROAD

SCALE: 1" = 10' | SHEET 184 OF 202 SHEETS | STA. 13+50.00 TO STA. 14+00.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
47				

CONTRACT NO.

ILLINOIS FED. AID PROJECT



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

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

FILE NAME =	USER NAME = _USER_	DESIGNED -	REVISED -
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$MODELNAME$	PLOT DATE = 06/25/18	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

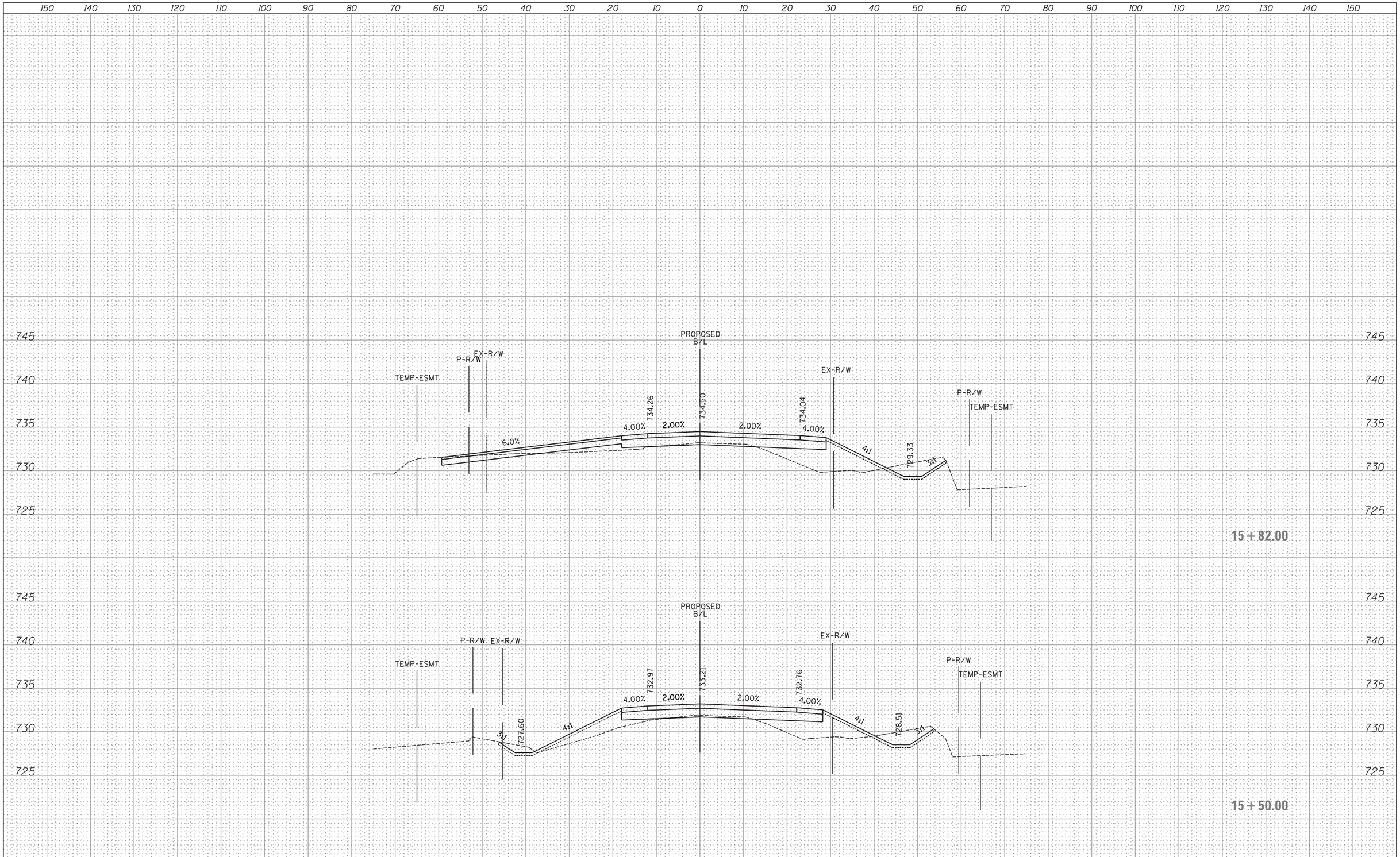
PROPOSED CROSS SECTIONS
SEAVEY ROAD

SCALE: 1" = 10' | SHEET 185 OF 202 SHEETS | STA. 14+50.00 TO STA. 15+00.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
47				

CONTRACT NO.

ILLINOIS FED. AID PROJECT



FILE NAME =	USER NAME = _USER_	DESIGNED -	REVISED -
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$MODELNAME$	PLOT DATE = 06/25/18	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED CROSS SECTIONS
SEAVEY ROAD

SCALE: 1" = 10' | SHEET 186 OF 202 SHEETS | STA. 15+50.00 TO STA. 15+82.00

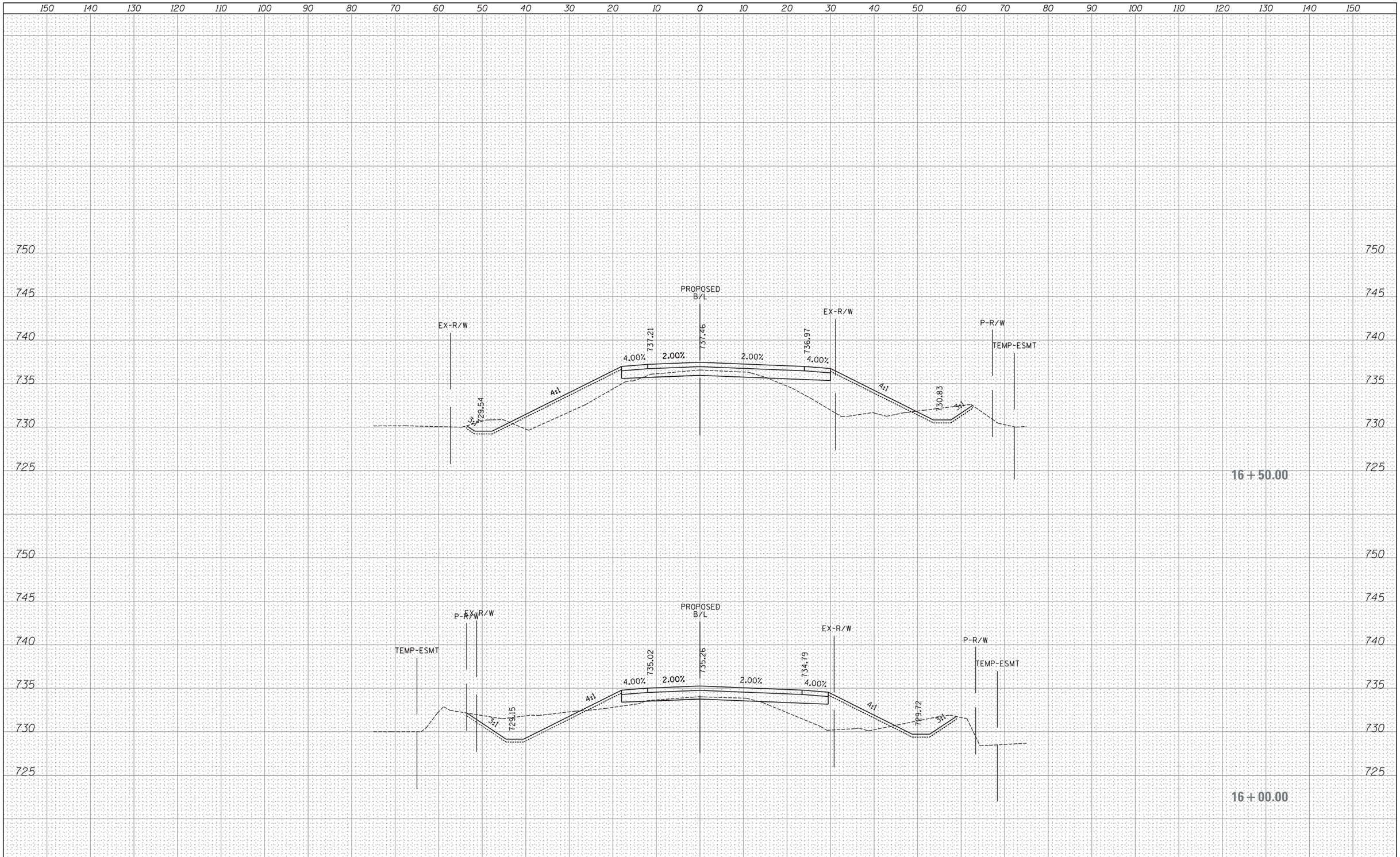
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
47				

CONTRACT NO.

ILLINOIS FED. AID PROJECT

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

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



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

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

FILE NAME = H:\Jobs2015\20153000\CAD\Transportation\dgn\00\DIXXXXX-sht-XS_seavey_West.dgn	USER NAME = _USER_	DESIGNED -	REVISED -
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$MODELNAME$	PLOT DATE = 06/25/18	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

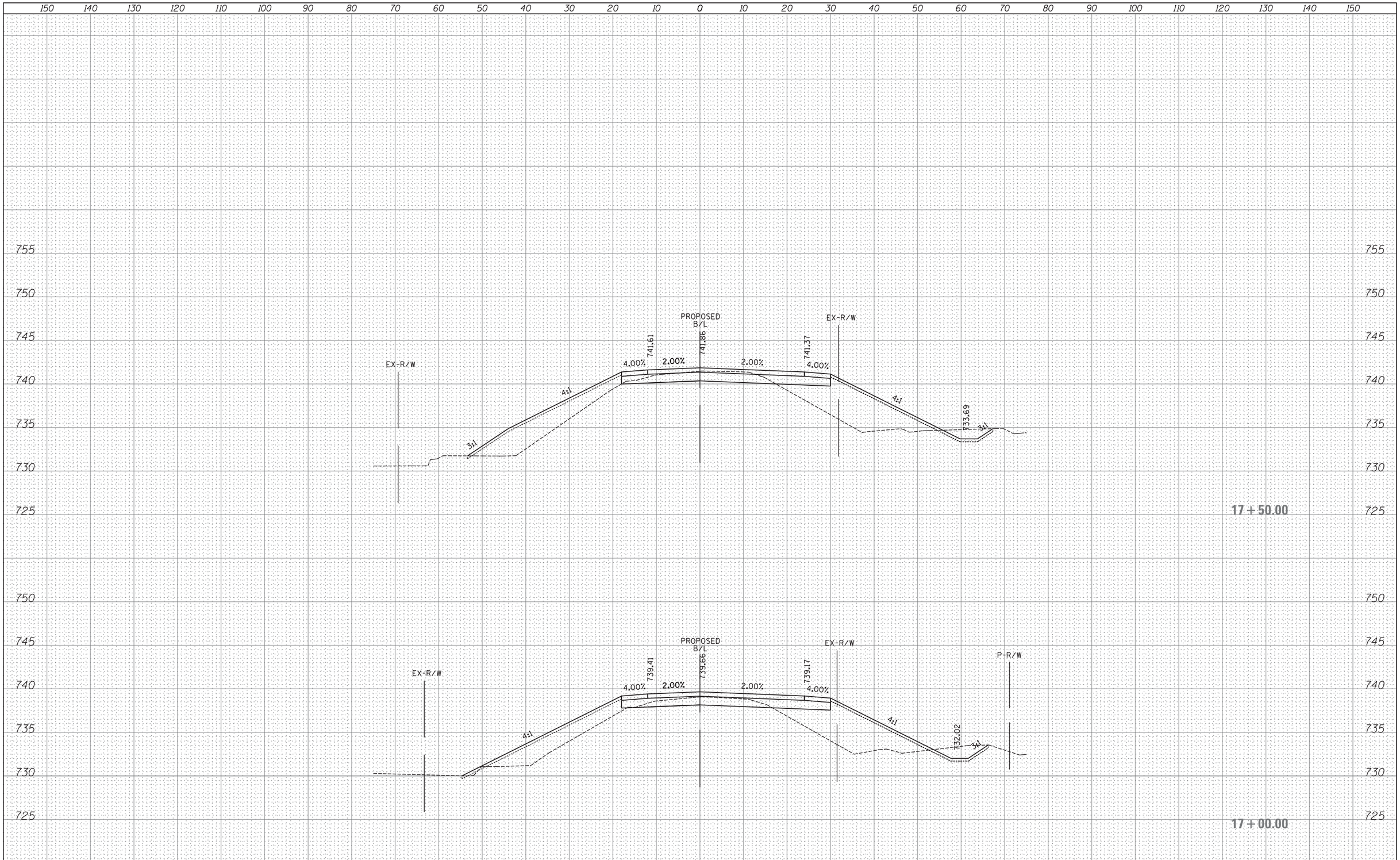
PROPOSED CROSS SECTIONS
SEAVEY ROAD

SCALE: 1" = 10' | SHEET 187 OF 202 SHEETS | STA. 16+00.00 TO STA. 16+50.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
47				

CONTRACT NO.

ILLINOIS FED. AID PROJECT



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

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

FILE NAME = H:\Jobs2015\20153000\CAD\Transportation\dgn\00\DIXXXXX-sht-XS_seavey_West.dgn	USER NAME = _USER_	DESIGNED -	REVISED -
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$MODELNAME$	PLOT DATE = 06/25/18	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

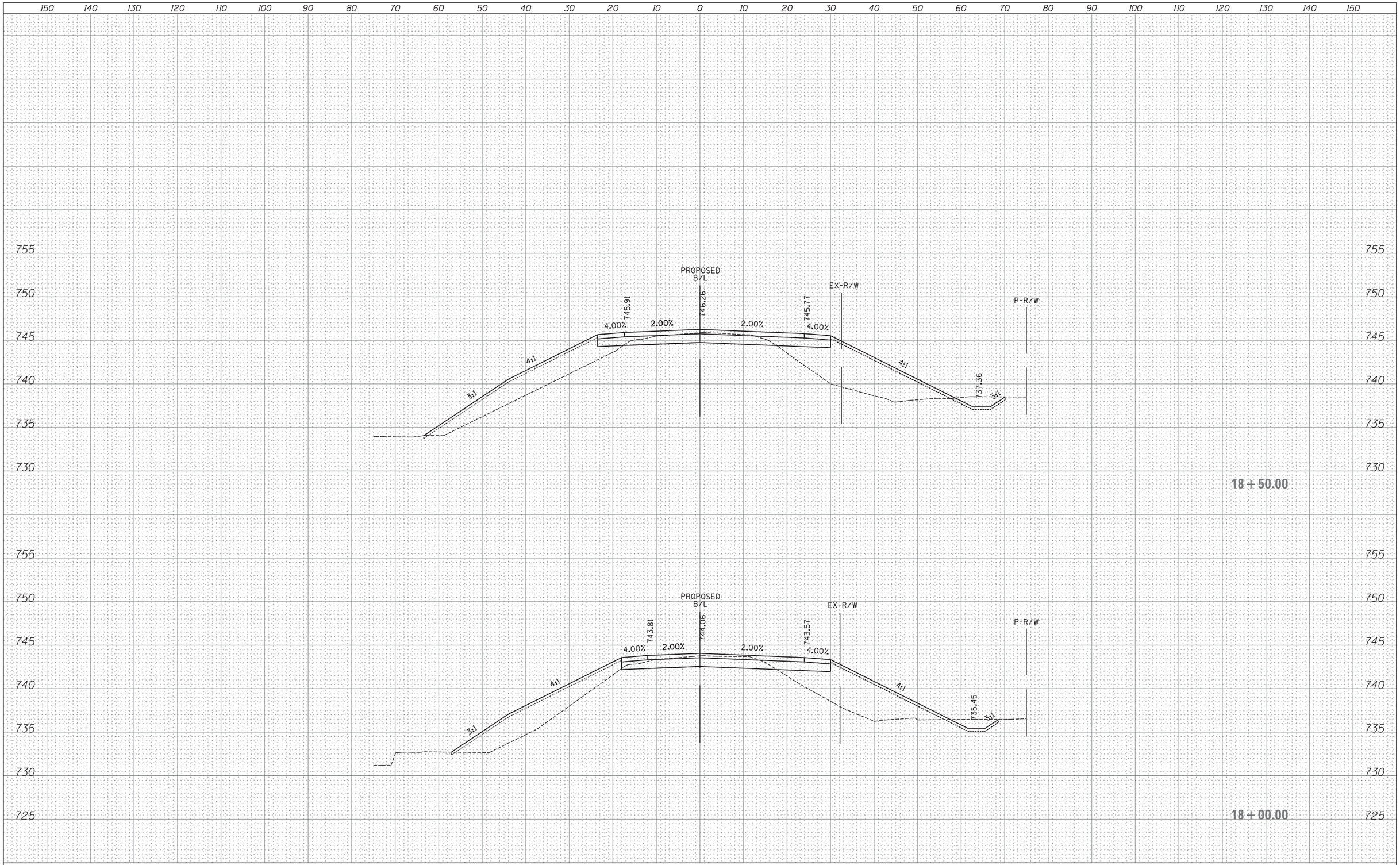
PROPOSED CROSS SECTIONS
SEAVEY ROAD

SCALE: 1" = 10' | SHEET 188 OF 202 SHEETS | STA. 17+00.00 TO STA. 17+50.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
47				

CONTRACT NO.

ILLINOIS FED. AID PROJECT



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

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

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$MODELNAME$	PLOT DATE = 06/25/18	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

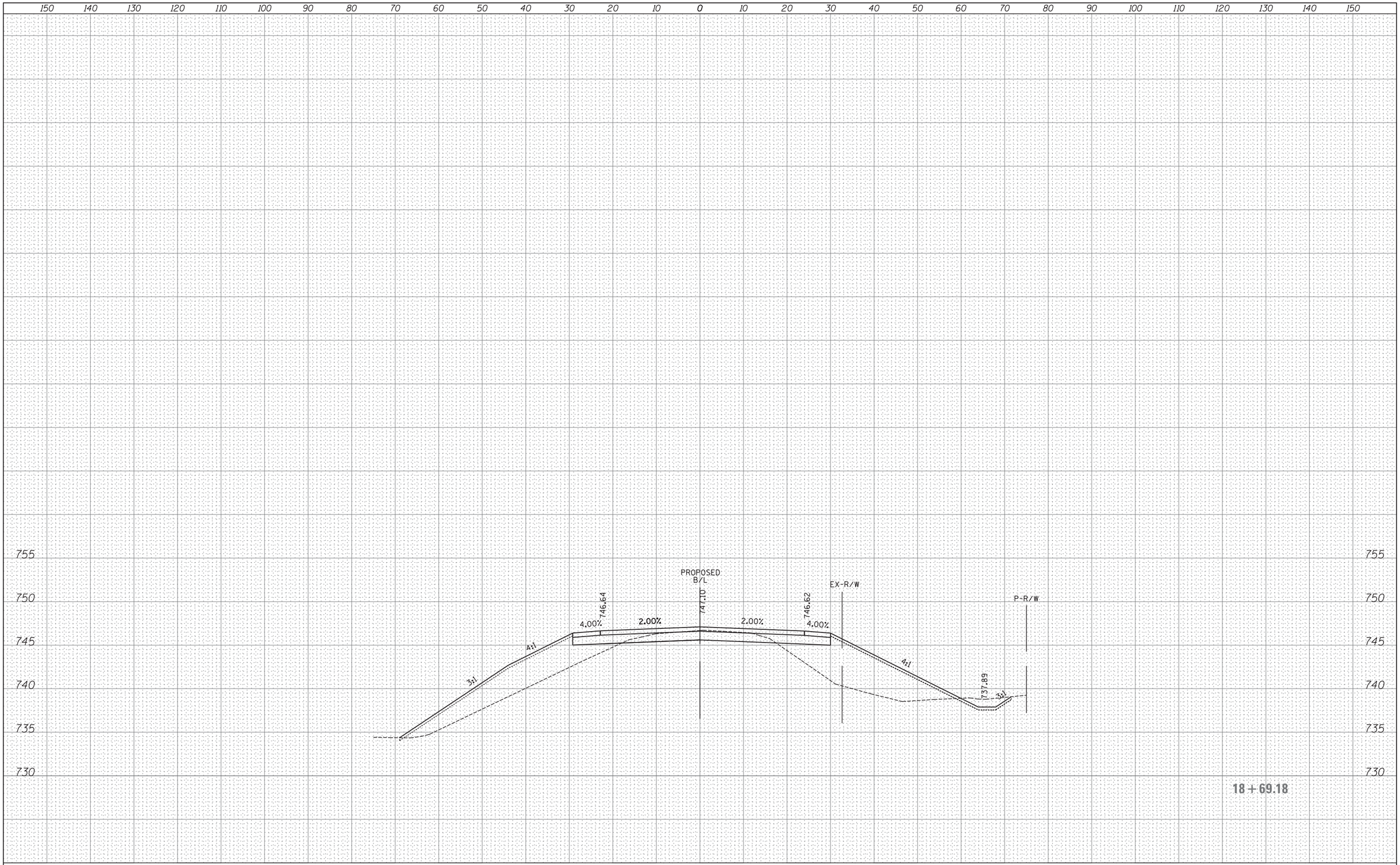
PROPOSED CROSS SECTIONS
SEAVEY ROAD

SCALE: 1" = 10' | SHEET 189 OF 202 SHEETS | STA. 18+00.00 TO STA. 18+50.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
47				

CONTRACT NO.

ILLINOIS FED. AID PROJECT



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

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

FILE NAME =	USER NAME = _USER_	DESIGNED -	REVISED -
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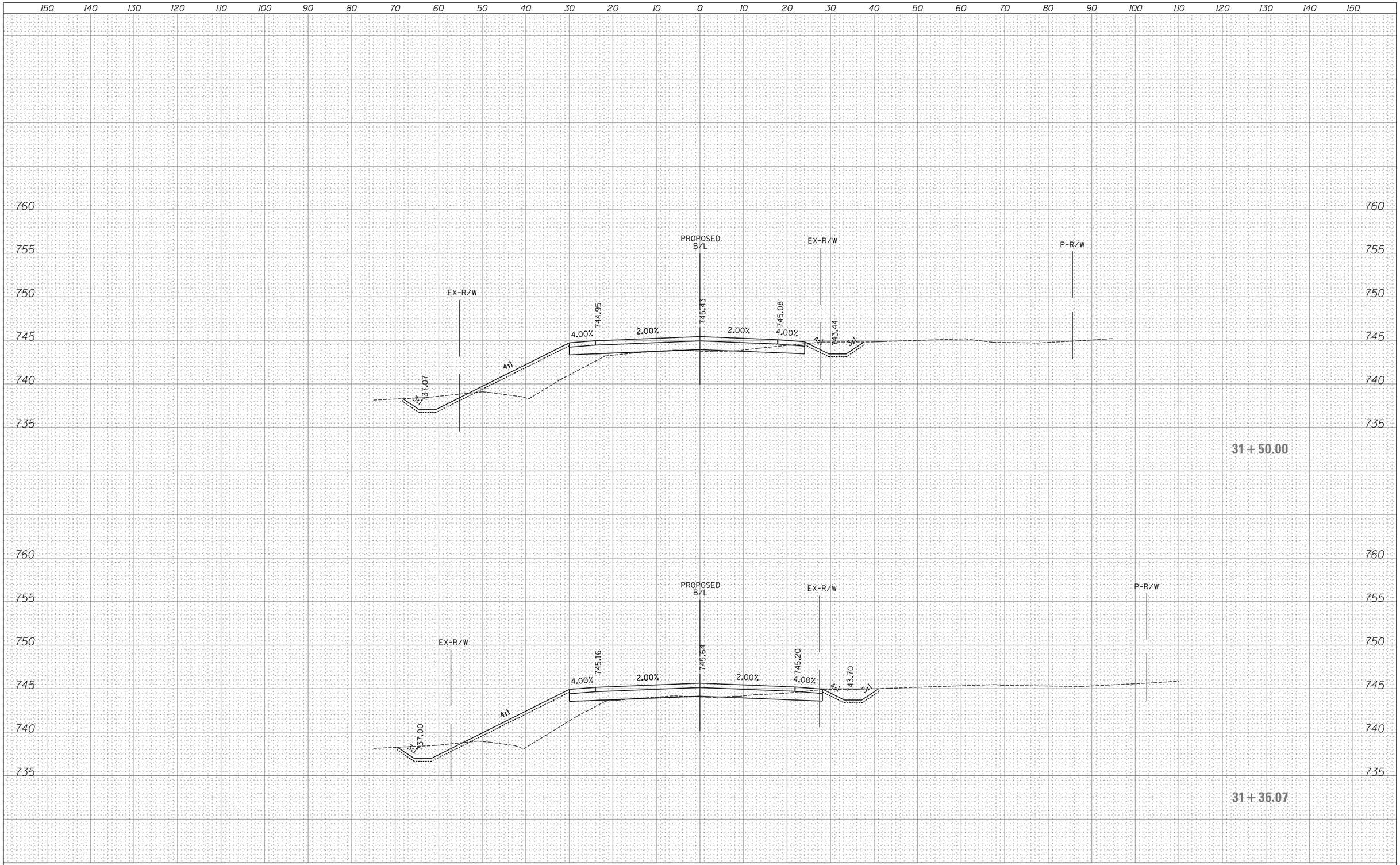
	PLOT SCALE = 10.0000 ' / in.	CHECKED -	REVISED -
$MODELNAME$	PLOT DATE = 06/25/18	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED CROSS SECTIONS
SEAVEY ROAD

SCALE: 1" = 10' | SHEET 190 OF 202 SHEETS | STA. 18+69.18 TO STA. 18+69.18

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
47				
		CONTRACT NO.		
	ILLINOIS	FED. AID PROJECT		



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$MODELNAME$	PLOT DATE = 06/25/18	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED CROSS SECTIONS
SEAVEY ROAD

SCALE: 1" = 10' | SHEET 191 OF 202 SHEETS | STA. 31+36.07 TO STA. 31+50.00

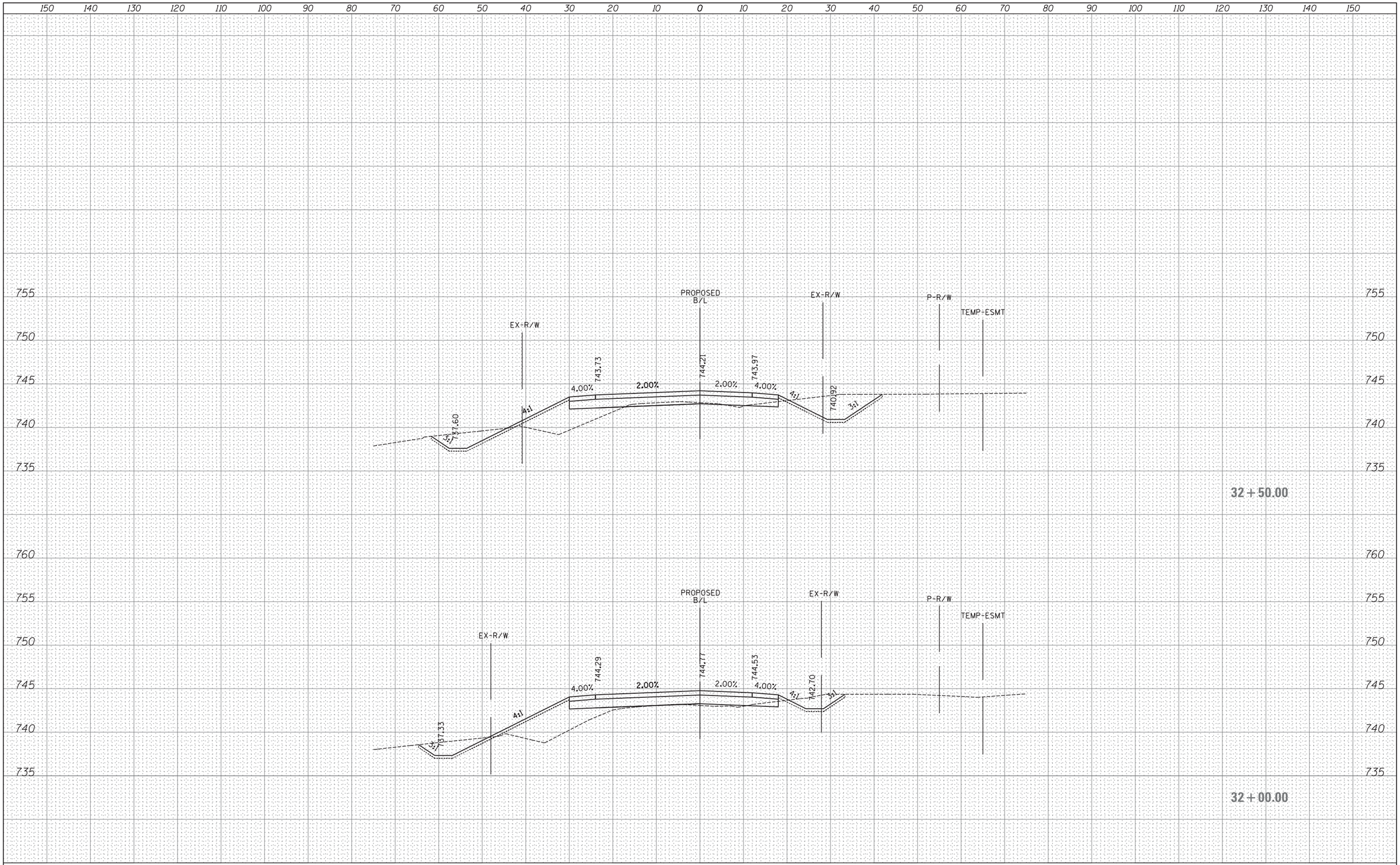
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
47				

CONTRACT NO.

ILLINOIS FED. AID PROJECT

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

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



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

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

FILE NAME =	USER NAME = _USER_	DESIGNED -	REVISED -
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$MODELNAME$	PLOT DATE = 06/25/18	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

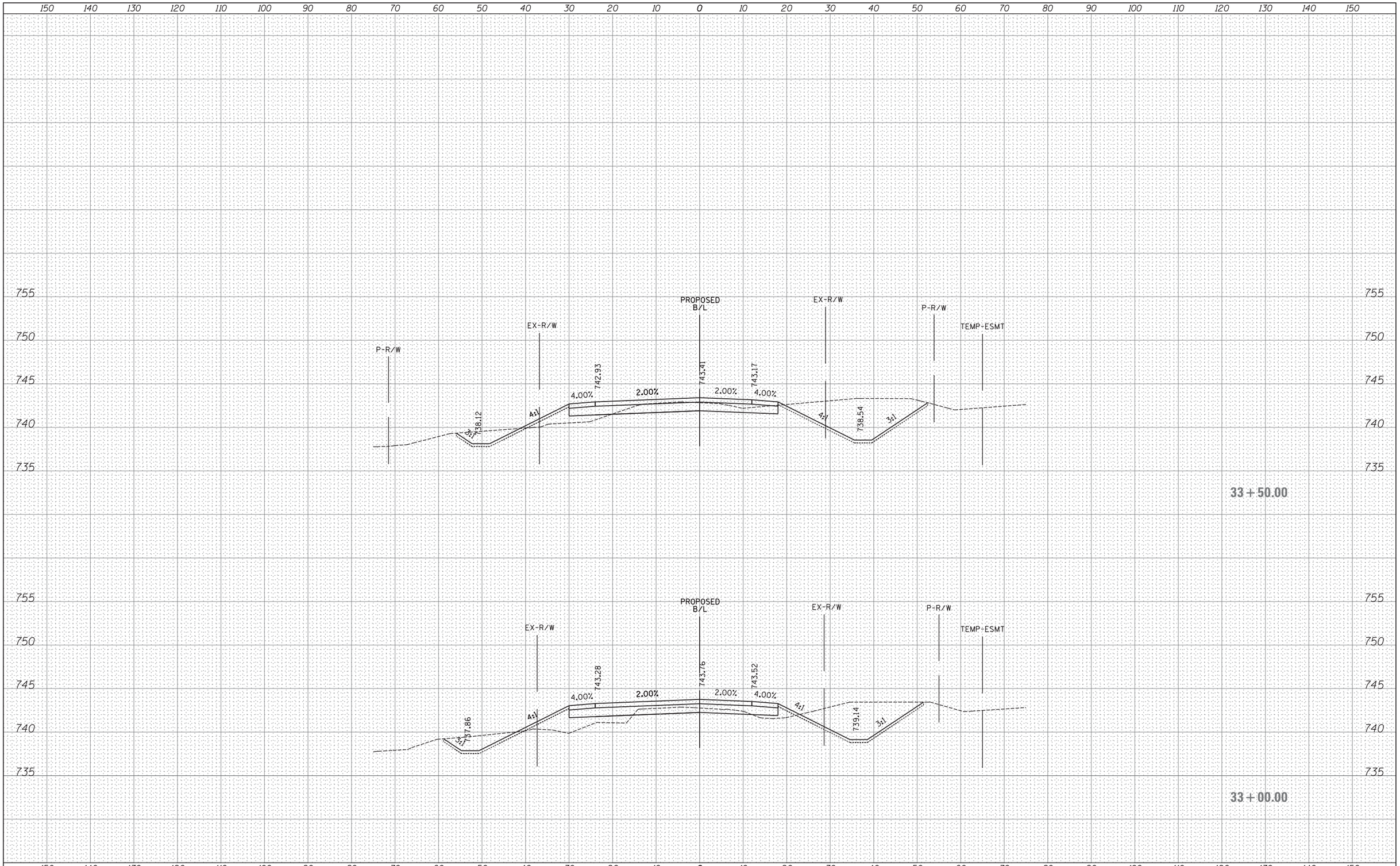
PROPOSED CROSS SECTIONS
SEAVEY ROAD

SCALE: 1" = 10' | SHEET 192 OF 202 SHEETS | STA. 32+00.00 TO STA. 32+50.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
47				

CONTRACT NO.

ILLINOIS FED. AID PROJECT



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

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

FILE NAME = H:\Jobs2015\20153000\CAD\Transportation\dgn\00\DIXXXXX-sht-XS_seavey_East.dgn	USER NAME = _USER_	DESIGNED -	REVISED -
		DRAWN -	REVISED -
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$MODELNAME$	PLOT DATE = 06/25/18	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

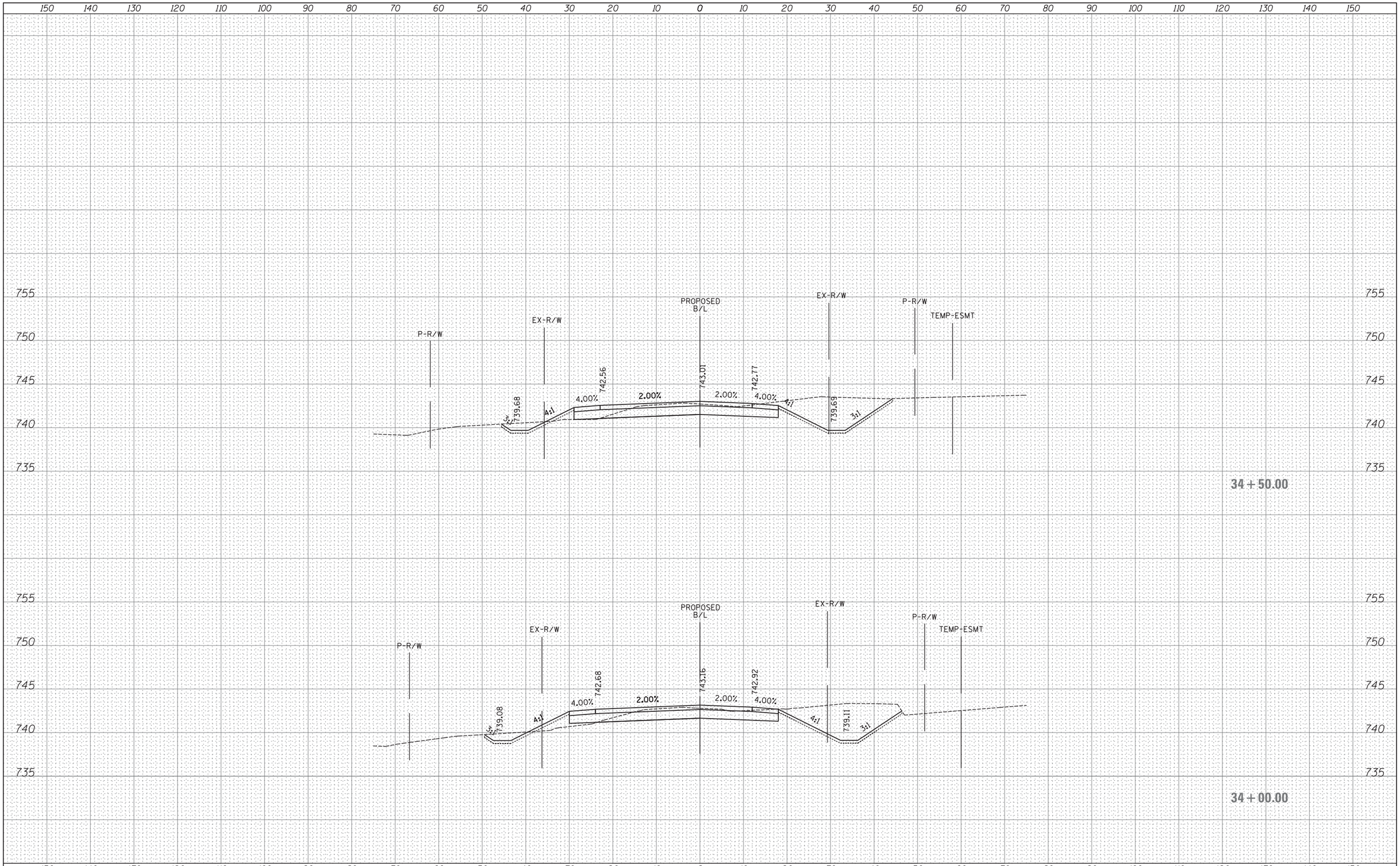
PROPOSED CROSS SECTIONS
SEAVEY ROAD

SCALE: 1" = 10' | SHEET 193 OF 202 SHEETS | STA. 33+00.00 TO STA. 33+50.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
47				

CONTRACT NO.

ILLINOIS FED. AID PROJECT



FILE NAME =	USER NAME = _USER_	DESIGNED -	REVISED -
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	PLOT SCALE = 10.0000 ' / in.	CHECKED -	REVISED -
$MODELNAME$	PLOT DATE = 06/25/18	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

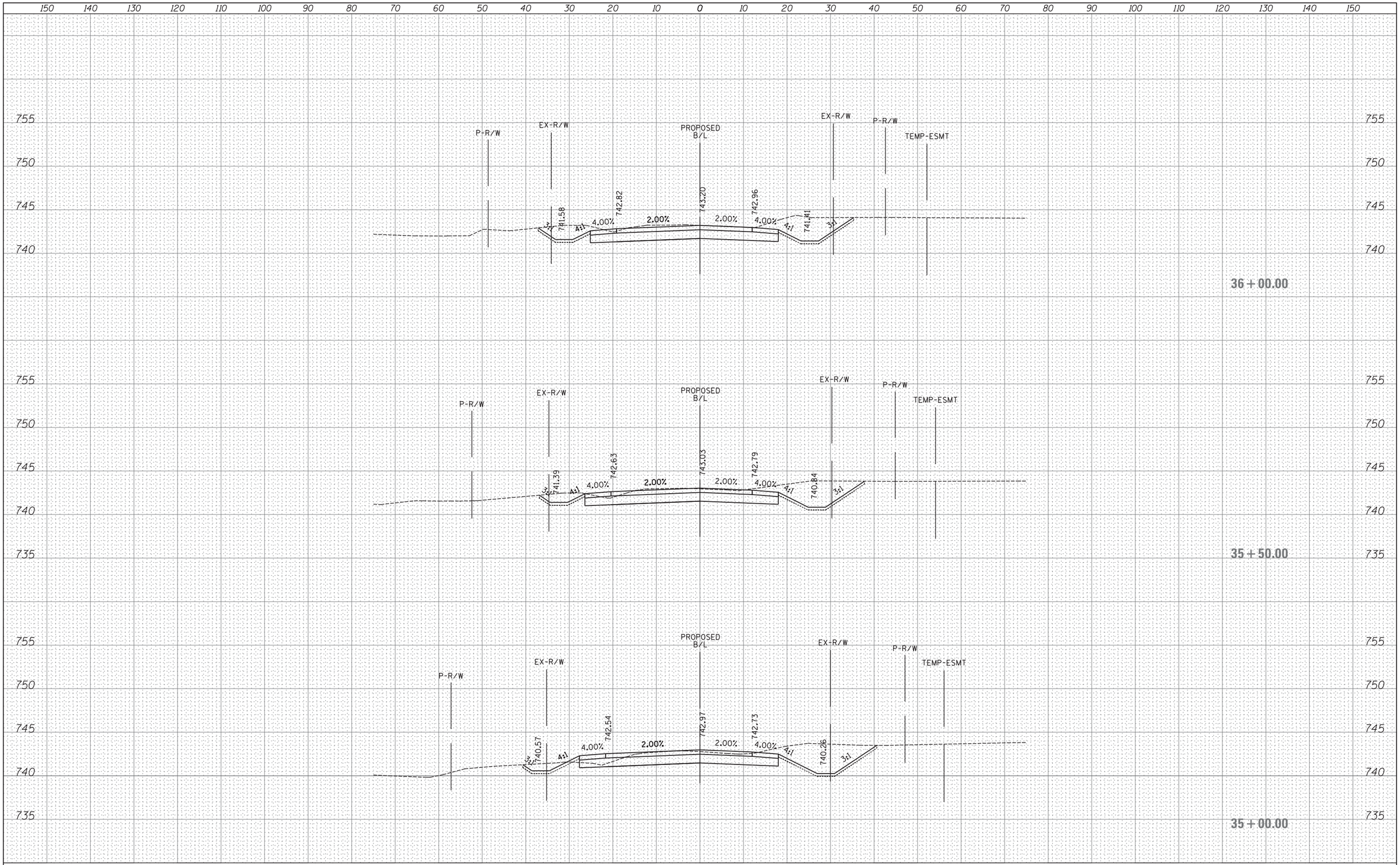
PROPOSED CROSS SECTIONS
SEAVEY ROAD

SCALE: 1" = 10' | SHEET 194 OF 202 SHEETS | STA. 34+00.00 TO STA. 34+50.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
47				
		CONTRACT NO.		
	ILLINOIS FED. AID PROJECT			

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

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



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

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

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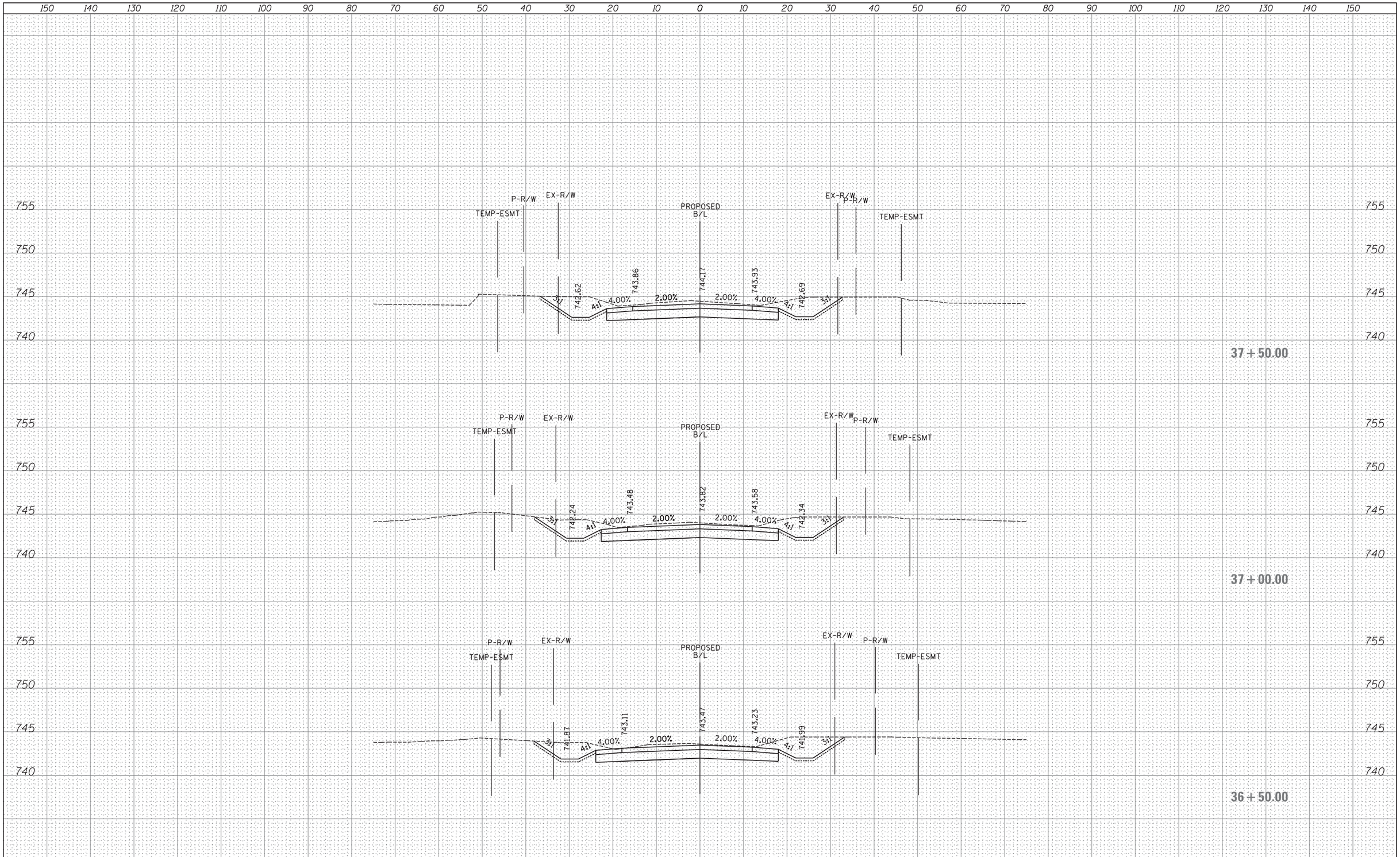
	PLOT SCALE = 10.0000 ' / in.	CHECKED -	REVISED -
$MODELNAME$	PLOT DATE = 06/25/18	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED CROSS SECTIONS
SEAVEY ROAD

SCALE: 1" = 10' | SHEET 195 OF 202 SHEETS | STA. 35+00.00 TO STA. 36+00.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
47				
		CONTRACT NO.		
		ILLINOIS FED. AID PROJECT		



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

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

FILE NAME = H:\Jobs2015\20153000\CAD\Transportation\dgn\00\DIXXXXX-sht-XS_seavey_East.dgn	USER NAME = _USER_	DESIGNED -	REVISED -
		DRAWN -	REVISED -
	PLOT SCALE = 10.0000 ' / in.	CHECKED -	REVISED -
$MODELNAME$	PLOT DATE = 06/25/18	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

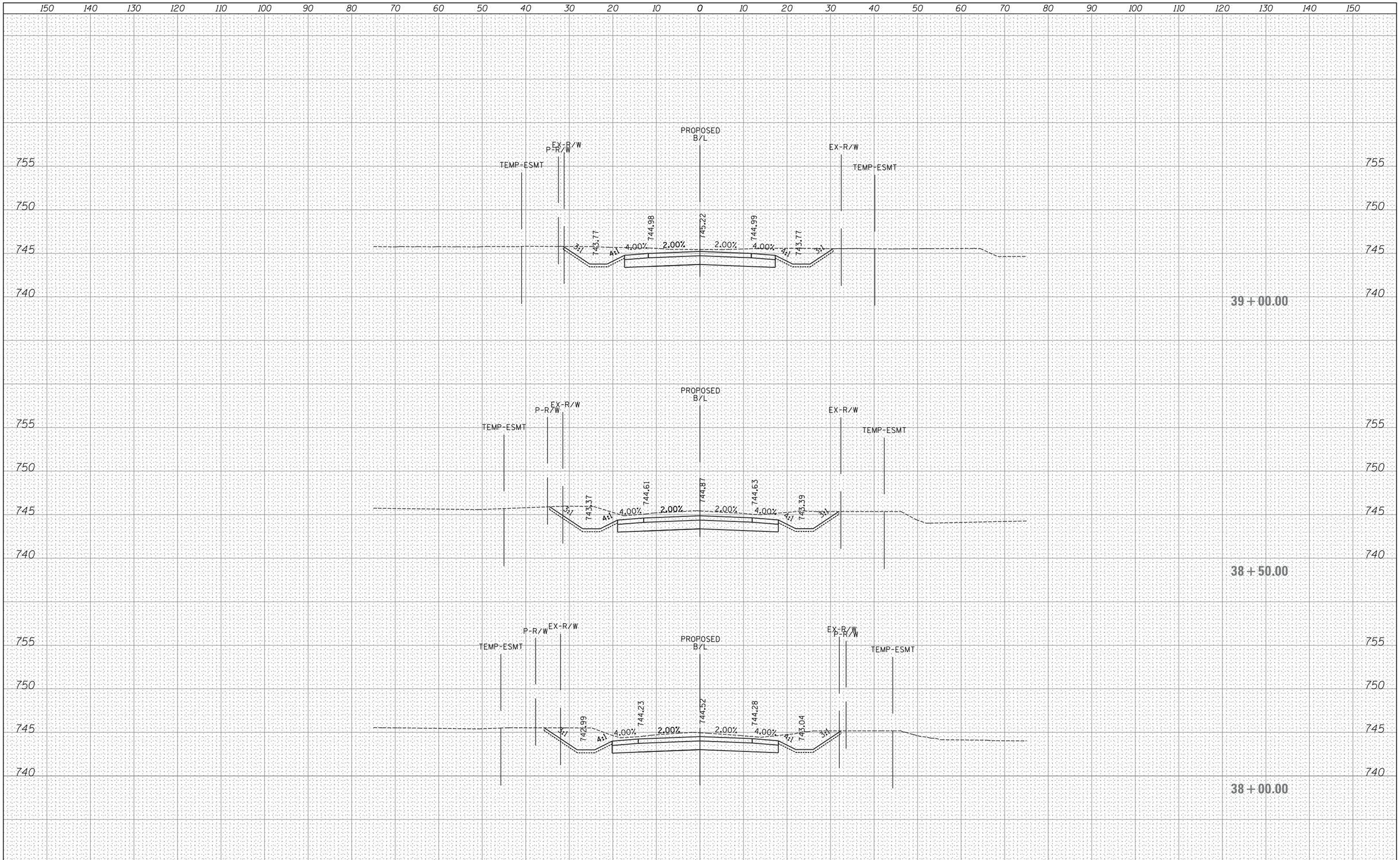
PROPOSED CROSS SECTIONS
SEAVEY ROAD

SCALE: 1" = 10' | SHEET 196 OF 202 SHEETS | STA. 36+50.00 TO STA. 37+50.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
47				

CONTRACT NO.

ILLINOIS FED. AID PROJECT



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

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

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$MODELNAME$	PLOT DATE = 06/25/18	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

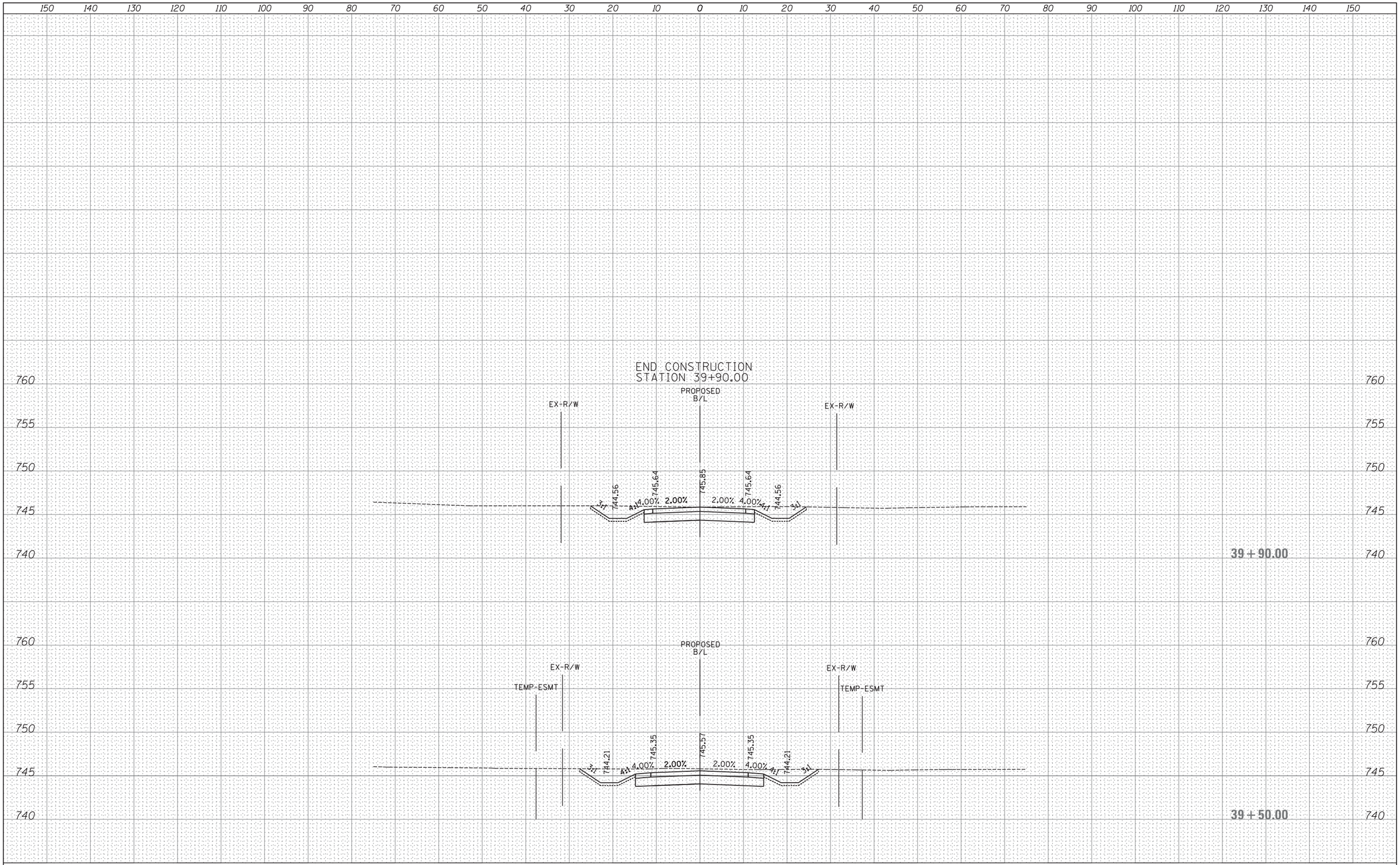
PROPOSED CROSS SECTIONS
SEAVEY ROAD

SCALE: 1" = 10' | SHEET 197 OF 202 SHEETS | STA. 38+00.00 TO STA. 39+00.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
47				

CONTRACT NO.

ILLINOIS FED. AID PROJECT



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

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

FILE NAME =	USER NAME = _USER_	DESIGNED -	REVISED -
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	PLOT SCALE = 10.0000 ' / in.	CHECKED -	REVISED -
$MODELNAME$	PLOT DATE = 06/25/18	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

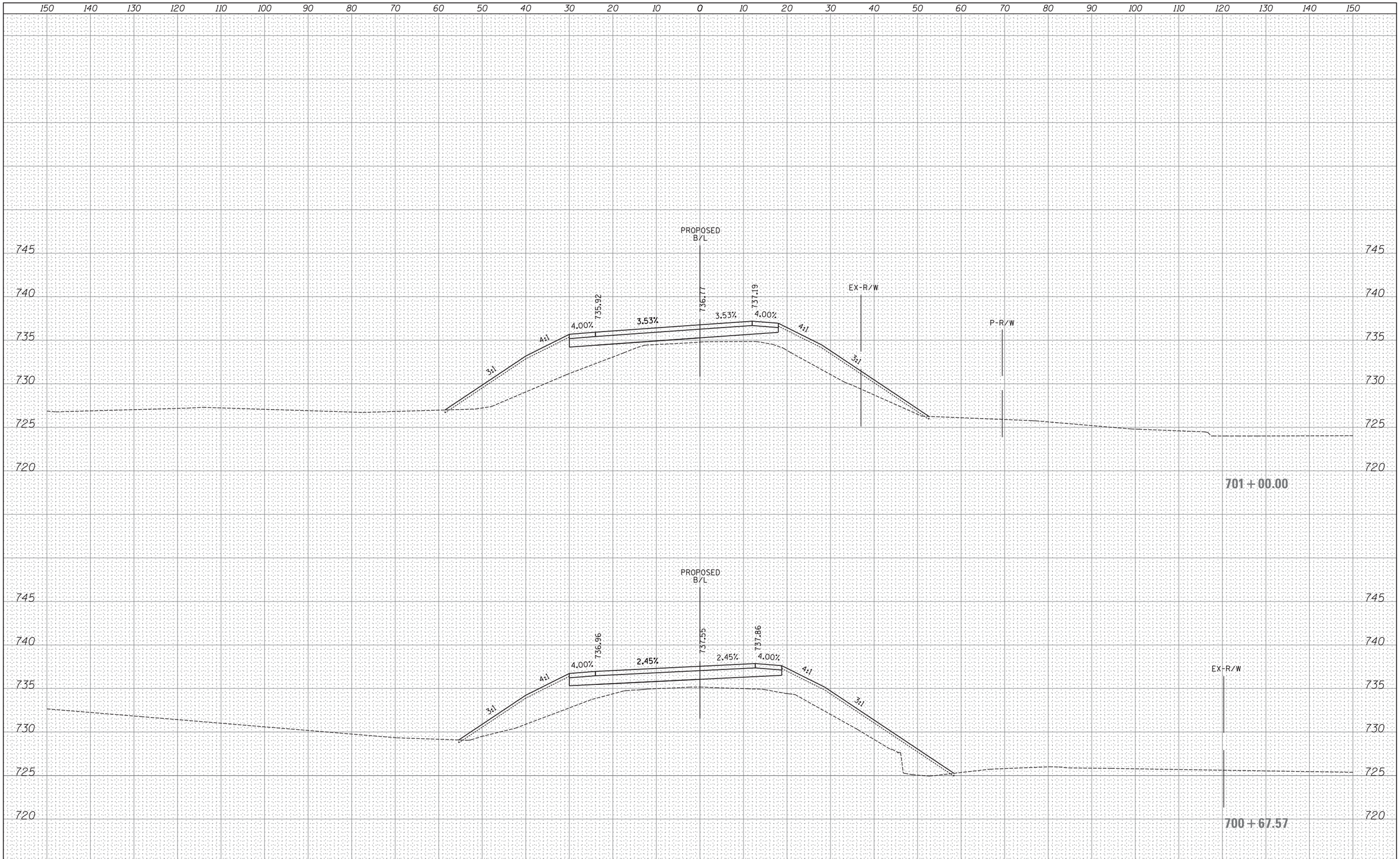
PROPOSED CROSS SECTIONS
SEAVEY ROAD

SCALE: 1" = 10' | SHEET 198 OF 202 SHEETS | STA. 39+50.00 TO STA. 39+90.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
47				

CONTRACT NO.

ILLINOIS FED. AID PROJECT



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

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

FILE NAME =	USER NAME = _USER_	DESIGNED -	REVISED -
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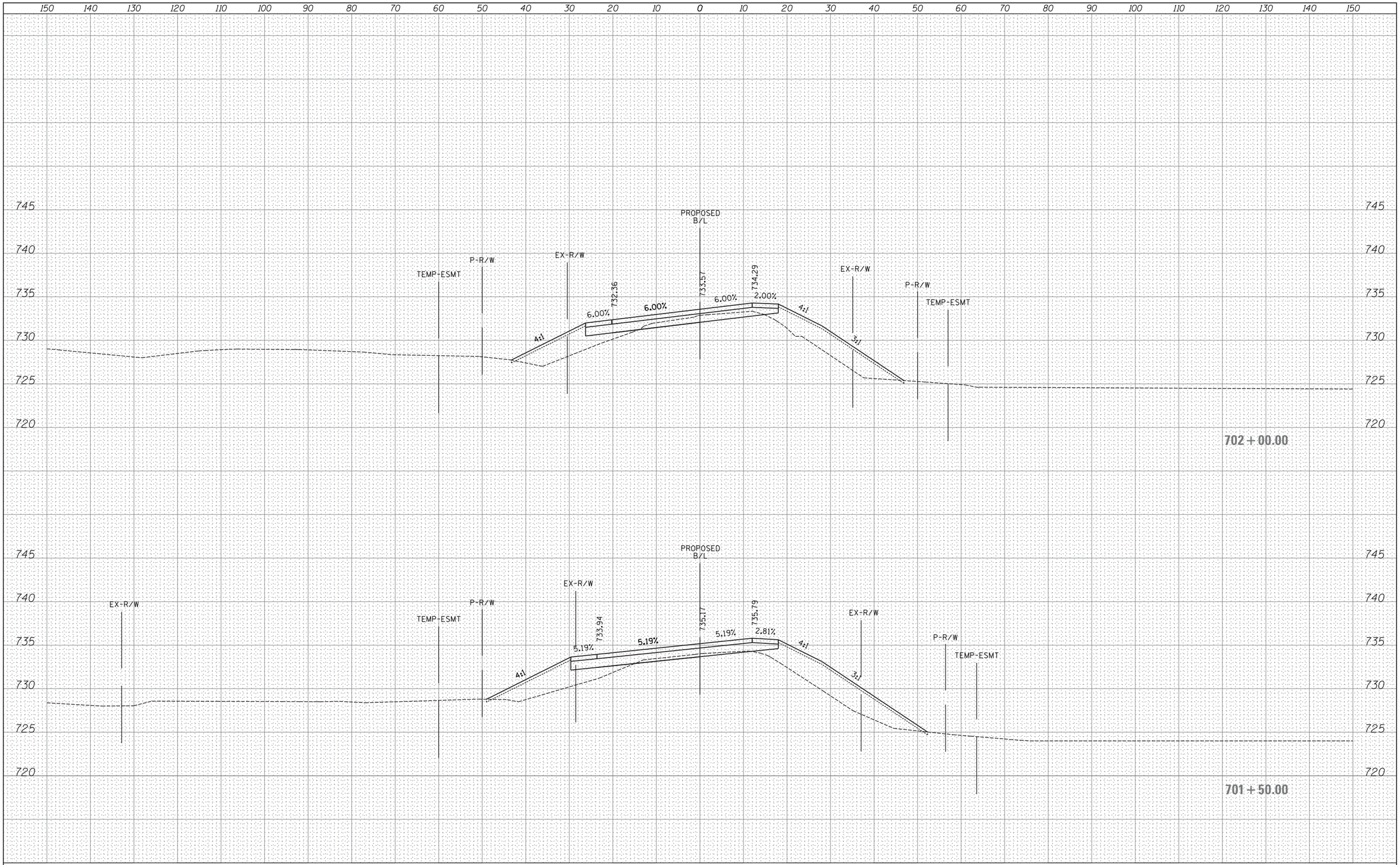
	PLOT SCALE = 10.0000 ' / in.	CHECKED -	REVISED -
$MODELNAME$	PLOT DATE = 06/25/18	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED CROSS SECTIONS
GREEN ROAD

SCALE: 1" = 10' | SHEET 199 OF 202 SHEETS | STA. 700+67.57 TO STA. 701+00.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
47				
		CONTRACT NO.		
		ILLINOIS FED. AID PROJECT		



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NOTE BOOK NO.	SURVEYED	
	PLOTTED	
	TEMPLATE	
	AREAS	
	AREAS CHECKED	

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

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	PLOT SCALE = 10.0000 ' / in.	CHECKED -	REVISED -
$MODELNAME$	PLOT DATE = 06/25/18	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

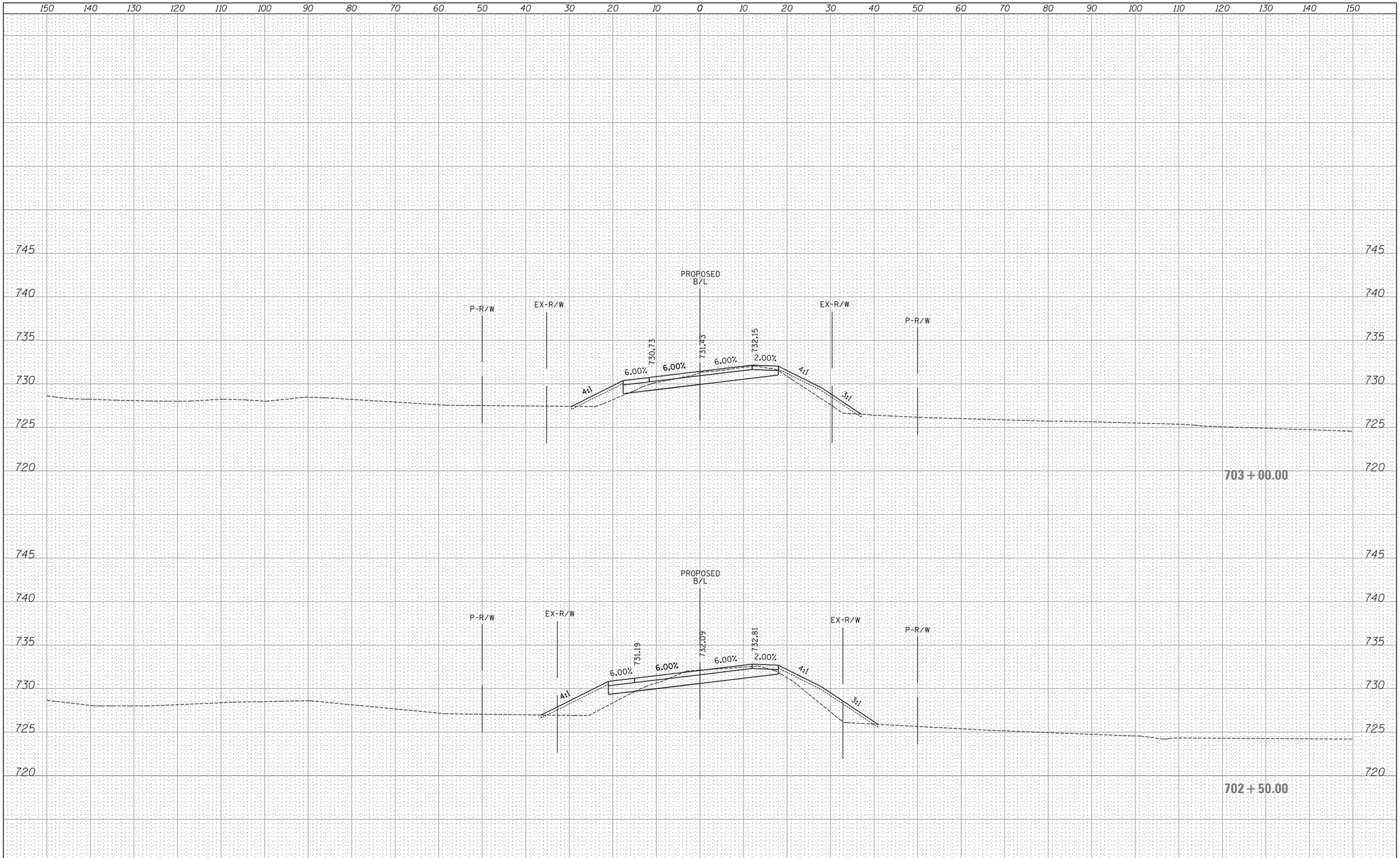
PROPOSED CROSS SECTIONS
GREEN ROAD

SCALE: 1" = 10' | SHEET 200 OF 202 SHEETS | STA. 701+50.00 TO STA. 702+00.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
47				

CONTRACT NO.

ILLINOIS FED. AID PROJECT



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	PLOT SCALE = 10.0000 ' / in.	CHECKED -	REVISED -
$MODELNAME$	PLOT DATE = 06/25/18	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED CROSS SECTIONS
GREEN ROAD

SCALE: 1" = 10' | SHEET 201 OF 202 SHEETS | STA. 702+50.00 TO STA. 703+00.00

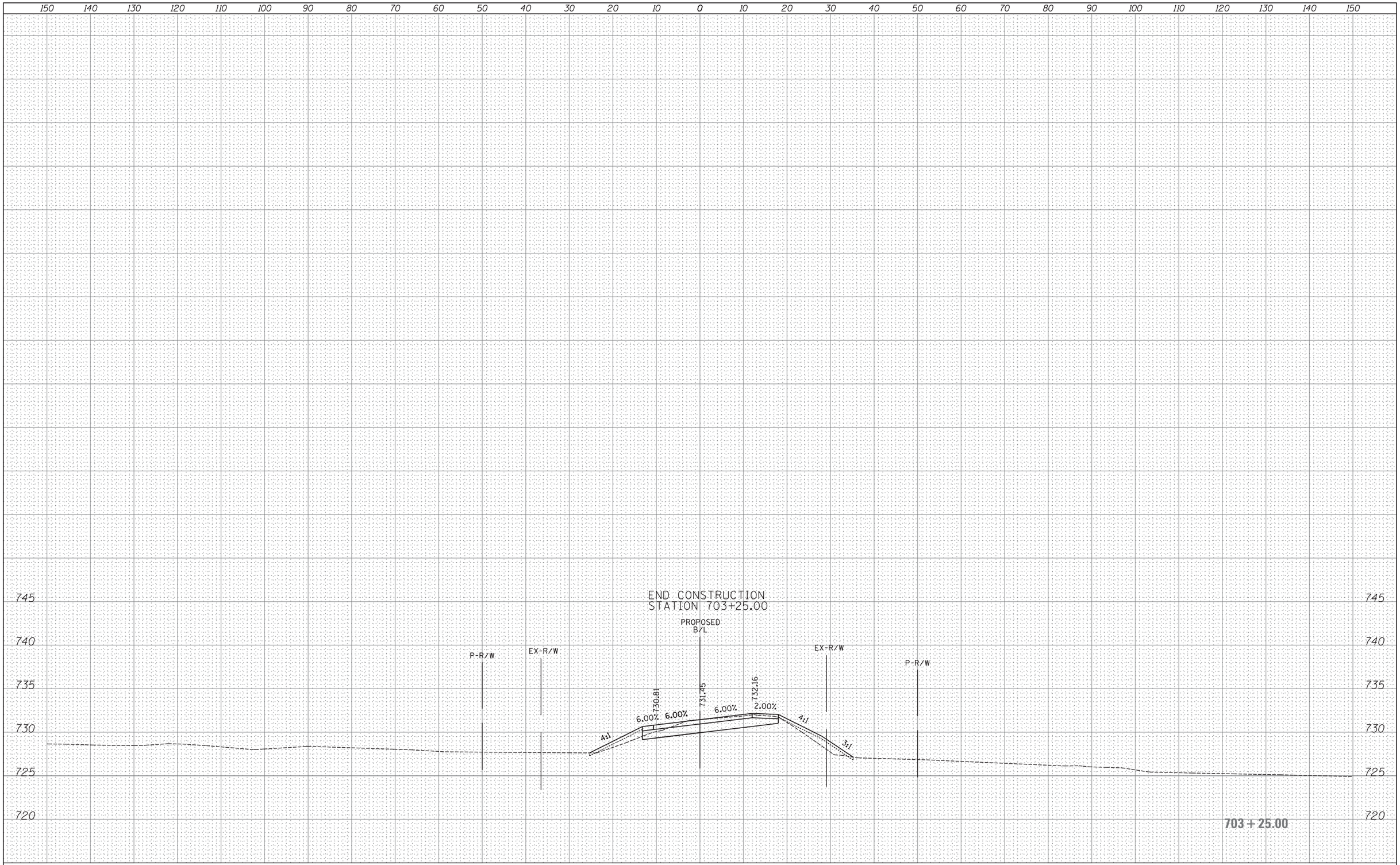
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
47				

CONTRACT NO.

ILLINOIS FED. AID PROJECT

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

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



FINAL SURVEY	BY	DATE
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AREAS		
AREAS CHECKED		
NOTE BOOK NO.		

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AREAS		
AREAS CHECKED		
NOTE BOOK NO.		

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	PLOT SCALE = 10.0000 ' / in.	CHECKED -	REVISED -
$MODELNAME$	PLOT DATE = 06/25/18	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED CROSS SECTIONS
GREEN ROAD

SCALE: 1" = 10' | SHEET 202 OF 202 SHEETS | STA. 703+25.00 TO STA. 703+25.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
47				

CONTRACT NO.

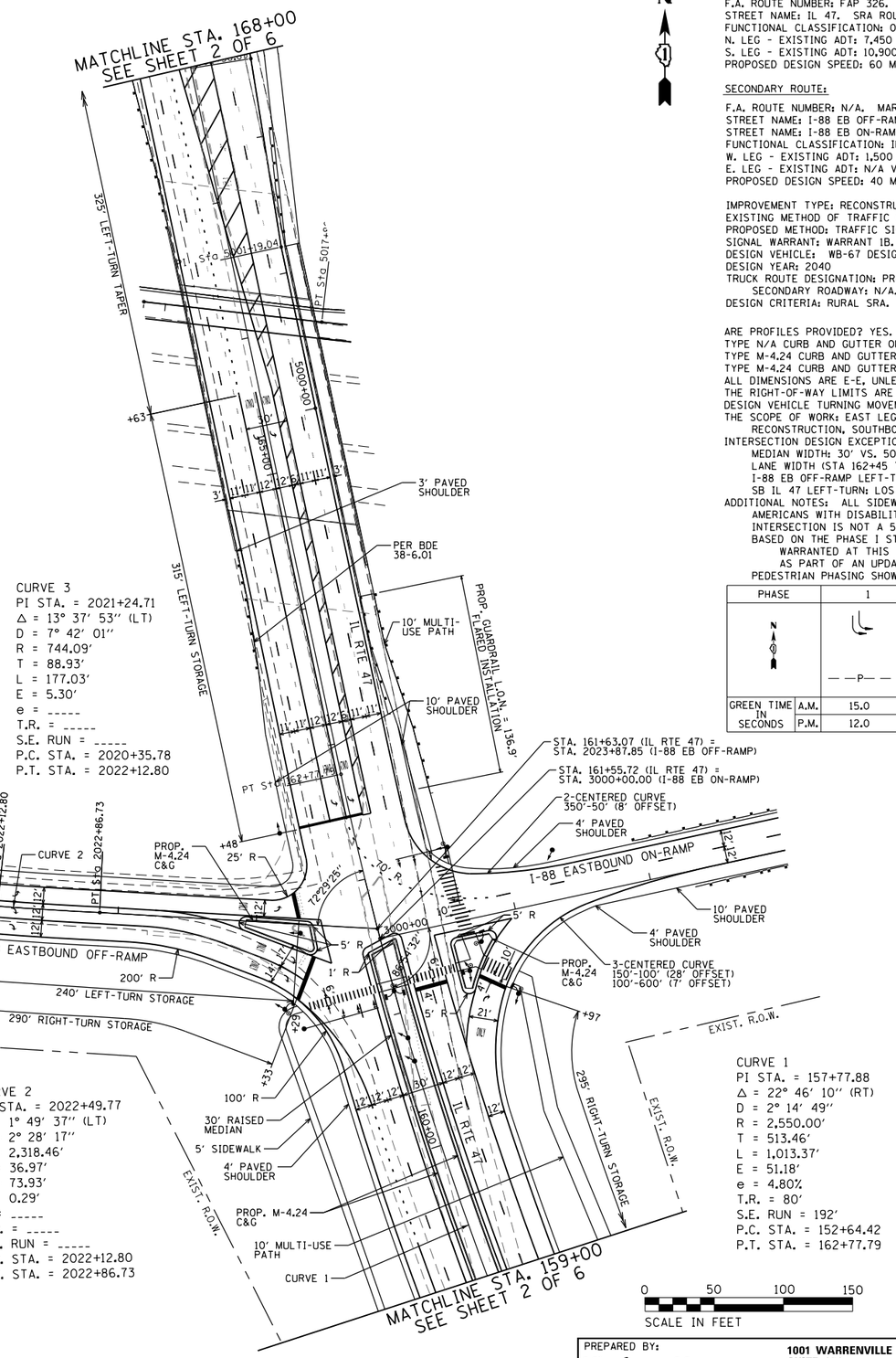
ILLINOIS | FED. AID PROJECT

PLOT DATE = 8/1/2018
FILE NAME = K:\CHS_TPTO\168279001 I-88 & IL 47 Phase I - Sugar Grove\Design\IDS or Signals\IDS; I-88EB_IL47.dgn
PLOT SCALE = 100.0000 ' / in.
USER NAME = emma.albers

SIGNALIZED CAPACITY DESIGN ANALYSIS

PROGRAM USED: HCS7 , VERSION: 7.2 SIGNAL TYPE: ACTUATED AREA TYPE: NON-CBD
NUMBER OF PHASES: (A.M.) 3 (P.M.) 3 CYCLE LENGTH: (A.M.) 120 SEC. (P.M.) 120 SEC. PEAK HOUR FACTOR: 0.95
INTERSECTION DELAY/LEVEL-OF-SERVICE A.M. 16.7 SECONDS LOS B P.M. 17.6 SECONDS LOS B

APPROACH		EASTBOUND (C)		WESTBOUND (D)		NORTHBOUND (B)		SOUTHBOUND (A)	
LANE GROUP		L	R			T	R	L	T
NUMBER OF LANES		1	2			2	1	2	2
2040 30TH MAX. HOUR TRAFFIC (veh/h)	A.M.	141	280			1080	383	270	983
	P.M.	127	400			1124	234	185	868
BASE SATURATION FLOW RATE (veh/h)		1900	1900			2000	1900	1900	2000
LANE WIDTH (FT)		12	12			12	12	12	12
VOLUME OF RIGHT TURN ON RED (veh/h)		A.M. 0	P.M. 0	A.M.	P.M.	A.M. 0	P.M. 0	A.M. 0	P.M. 0
PEDESTRIANS/HOUR (ped/h)		A.M. 0	P.M. 0	A.M.	P.M.	A.M. 0	P.M. 0	A.M. 0	P.M. 0
ARRIVAL TYPE		3				4		4	
LANE UTILIZATION ADJ. FACTOR		1.000	0.885			0.952	1.00	0.971	0.952
GREEN TIME (SECONDS)	A.M.	17.6	17.6			70.9	70.9	15.0	90.4
	P.M.	23.9	23.9			67.6	67.6	12.0	84.1
GREEN RATIO (g/C)	A.M.	0.15	0.15			0.59	0.59	0.13	0.75
	P.M.	0.20	0.20			0.56	0.56	0.10	0.70
CAPACITY (c)	A.M.	231	399			2039	862	391	2555
	P.M.	346	536			2046	865	340	2587
v/c RATIO (X)	A.M.	0.644	0.739			0.558	0.468	0.726	0.405
	P.M.	0.387	0.786			0.578	0.285	0.572	0.353
STORAGE QUEUE (FEET OR VEHICLES)	A.M.	235	211			412	293	224	230
	P.M.	178	286			434	181	144	225
LANE GROUP DELAY(SECONDS)	A.M.	54.5	54.6			7.9	15.7	53.1	0.5
	P.M.	43.2	51.7			9.8	14.4	53.1	1.6
LANE GROUP LEVEL-OF-SERVICE	A.M.	D	D			A	B	D	A
	P.M.	D	D			A	B	D	A
APPROACH DELAY (SECONDS/VEHICLE)	A.M.	54.6				10.0		11.8	
	P.M.	49.6				10.6		10.7	
APPROACH LEVEL-OF-SERVICE	A.M.	D				A		B	
	P.M.	D				B		B	



CURVE 5
PI STA. = 2018+70.21
Δ = 3° 34′ 23″ (LT)
D = 4° 01′ 28″
R = 1,423.65′
T = 44.41′
L = 88.78′
E = 0.69′
e = -----
T.R. = -----
S.E. RUN = -----
P.C. STA. = 2018+25.81
P.T. STA. = 2019+14.59

CURVE 4
PI STA. = 2019+75.35
Δ = 10° 23′ 08″ (LT)
D = 8° 34′ 12″
R = 668.57′
T = 60.76′
L = 121.19′
E = 2.76′
e = -----
T.R. = -----
S.E. RUN = -----
P.C. STA. = 2019+14.59
P.T. STA. = 2020+35.78

CURVE 3
PI STA. = 2021+24.71
Δ = 13° 37′ 53″ (LT)
D = 7° 42′ 01″
R = 744.09′
T = 88.93′
L = 177.03′
E = 5.30′
e = -----
T.R. = -----
S.E. RUN = -----
P.C. STA. = 2020+35.78
P.T. STA. = 2022+12.80

CURVE 2
PI STA. = 2022+49.77
Δ = 1° 49′ 37″ (LT)
D = 2° 28′ 17″
R = 2,318.46′
T = 36.97′
L = 73.93′
E = 0.29′
e = -----
T.R. = -----
S.E. RUN = -----
P.C. STA. = 2022+12.80
P.T. STA. = 2022+86.73

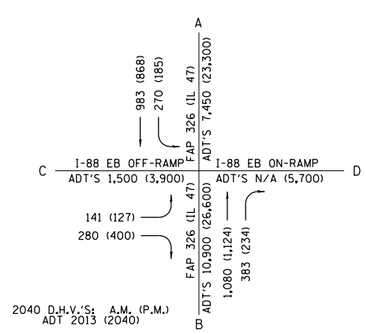
CURVE 1
PI STA. = 157+77.88
Δ = 22° 46′ 10″ (RT)
D = 2° 14′ 49″
R = 2,550.00′
T = 513.46′
L = 1,013.37′
E = 51.18′
e = 4.80%
T.R. = 80′
S.E. RUN = 192′
P.C. STA. = 152+64.42
P.T. STA. = 162+77.79

0 50 100 150
SCALE IN FEET

TRAFFIC DATA

MOVEMENT	YEAR 2015 30TH MAXIMUM HOUR TRAFFIC		PERCENT TRUCK TRAFFIC IN 30TH MAX. HOUR		ESTIMATED PERCENT INCREASE BY 2040	YEAR 2040 30TH MAXIMUM HOUR TRAFFIC	
	A.M.	P.M.	A.M.	P.M.		A.M.	P.M.
AD (L)	N/A	N/A	N/A	N/A	N/A	270	185
AB (T)	392	295	6	4	275%	983	868
AC (R)							
BC (L)							
BA (T)	480	472	12	6	230%	1080	1124
BD (R)	N/A	N/A	0	0	N/A	383	234
CA (L)	37	36	17	5	365%	141	127
CD (T)							
CB (R)	105	131	6	7	285%	280	400
DB (L)							
DC (T)							
DA (R)							
TOTAL A	392	295				1253	1053
TOTAL B	480	472				1463	1358
TOTAL C	142	167				421	527
TOTAL D							

T = THROUGH, L = LEFT, R = RIGHT



ELEMENTS CONTROLLING DESIGN

PREFERRED ROUTE:

F.A. ROUTE NUMBER: FAP 326. MARKED ROUTE NUMBER: IL 47.
STREET NAME: IL 47. SRA ROUTE? Y/N YES.
FUNCTIONAL CLASSIFICATION: OTHER PRINCIPAL ARTERIAL. OSOW DESIGN? YES.
N. LEG - EXISTING ADT: 7,450 VPD. DESIGN YEAR ADT: 23,300 VPD.
S. LEG - EXISTING ADT: 10,900 VPD. DESIGN YEAR ADT: 26,600 VPD.
PROPOSED DESIGN SPEED: 60 MPH. PROPOSED POSTED SPEED: 55 MPH.

SECONDARY ROUTE:

F.A. ROUTE NUMBER: N/A. MARKED ROUTE NUMBER: I-88 (RONALD REAGAN TOLLWAY).
STREET NAME: I-88 EB OFF-RAMP (W. LEG). SRA ROUTE? NO.
STREET NAME: I-88 EB ON-RAMP (E. LEG). SRA ROUTE NO.
FUNCTIONAL CLASSIFICATION: INTERSTATE. OSOW DESIGN? YES.
W. LEG - EXISTING ADT: 1,500 VPD. DESIGN YEAR ADT: 3,900 VPD.
E. LEG - EXISTING ADT: N/A VPD. DESIGN YEAR ADT: 5,700 VPD.
PROPOSED DESIGN SPEED: 40 MPH. PROPOSED POSTED SPEED: 35 MPH.

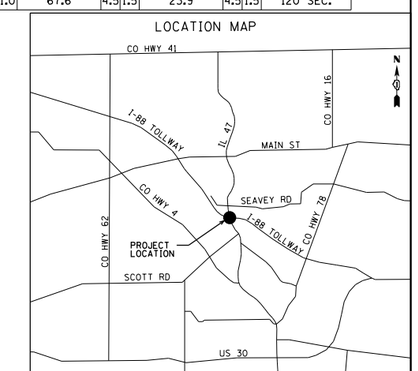
IMPROVEMENT TYPE: RECONSTRUCTION. ANTICIPATED YEAR OF CONSTRUCTION: FY 2040.
EXISTING METHOD OF TRAFFIC CONTROL: MINOR-LEG STOP-CONTROLLED.
PROPOSED METHOD: TRAFFIC SIGNAL.
SIGNAL WARRANT: WARRANT 1B.
DESIGN VEHICLE: WB-67 DESIGN VEHICLE WAS UTILIZED AT THIS INTERSECTION.
DESIGN YEAR: 2040
TRUCK ROUTE DESIGNATION: PREFERRED ROADWAY: IL 47 - CLASS II.
SECONDARY ROADWAY: N/A.
DESIGN CRITERIA: RURAL SRA.

GENERAL NOTES

ARE PROFILES PROVIDED? YES. IF NOT, STATE REASON WHY: N/A.
TYPE N/A CURB AND GUTTER ON THE OUTSIDE OF THE ROADWAY/SHOULDERS.
TYPE M-4.24 CURB AND GUTTER ON THE APPROACH MEDIAN.
TYPE M-4.24 CURB AND GUTTER ON THE CORNER ISLANDS.
ALL DIMENSIONS ARE E-E, UNLESS OTHERWISE NOTED
THE RIGHT-OF-WAY LIMITS ARE PRELIMINARY.
DESIGN VEHICLE TURNING MOVEMENTS ARE ACCOMMODATED PER AUTOTURN SOFTWARE, VERSION 10.
THE SCOPE OF WORK: EAST LEG CONSTRUCTION, NORTHBOUND RIGHT-TURN LANE, WEST LEG RECONSTRUCTION, SOUTHBOUND LEFT-TURN LANES.
INTERSECTION DESIGN EXCEPTIONS:
MEDIAN WIDTH: 30′ VS. 50′. (BDE FIGURE 46-4.C)
LANE WIDTH (STA 162+45 TO STA 167+16) : 11′ VS 12′. (BDE FIGURE 46-4.C)
I-88 EB OFF-RAMP LEFT-TURN AND RIGHT-TURN: LOS D VS. LOS C (AM+PM). (BDE FIGURE 46-4.C)
SB IL 47 LEFT-TURN: LOS D VS. LOS C (AM+PM). (BDE FIGURE 46-4.C)
ADDITIONAL NOTES: ALL SIDEWALKS AND RAMPS AS SHOWN ARE IN COMPLIANCE WITH THE AMERICANS WITH DISABILITIES ACT.
INTERSECTION IS NOT A 5% LOCATION.
BASED ON THE PHASE I STUDY, TRAFFIC SIGNALS FOR THIS INTERSECTION ARE NOT WARRANTED AT THIS TIME. WARRANTS CAN BE REEVALUATED IN THE FUTURE AS PART OF AN UPDATED TRAFFIC ENGINEERING STUDY.
PEDESTRIAN PHASING SHOWN CANNOT BE REPLICATED BY HCS SOFTWARE.

PHASE		1			2			3					
			YELLOW	RED		YELLOW	RED		YELLOW	RED			
GREEN TIME IN SECONDS	A.M.	15.0	3.5	1.0	70.9	4.5	1.5	17.6	4.5	1.5	CYCLE LENGTH		
	P.M.	12.0	3.5	1.0	67.6	4.5	1.5	23.9	4.5	1.5	120 SEC.		
											120 SEC.		

LOCATION MAP



INTERSECTION DESIGN STUDY

FAP ROUTE 326 I-88 EASTBOUND OFF-RAMP
WITH
IL ROUTE 47 I-88 EASTBOUND ON-RAMP

SEC. NO. 14-00028-00-CH PROJ. NO. _____
SCALE 1″=50′ COUNTY KANE
SJN : P-91-015-14 REV. NO. ___

DESIGNED BY EMMA J. ALBERS DATE: 8/01/2018

SATISFACTORY _____ DISTRICT GEOMETRICS ENGINEER DATE
SATISFACTORY _____ DISTRICT PROGRAM DEVELOPMENT ENGINEER DATE
SATISFACTORY _____ DISTRICT OPERATIONS ENGINEER DATE
APPROVED _____ DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER DATE

CADD FILE NAME : [ ] I.D.S. SHEET 1 OF 6

PREPARED BY:
Kimley»Horn
KHA PROJ. NO: 168414000
PROJ. MGR. TPS PROJ. ENG. EJA
1001 WARRENVILLE RD
SUITE 350
LISLE, IL 60532
(630) 487-5550

BDE-9908

PLOT DATE = 6/25/2018
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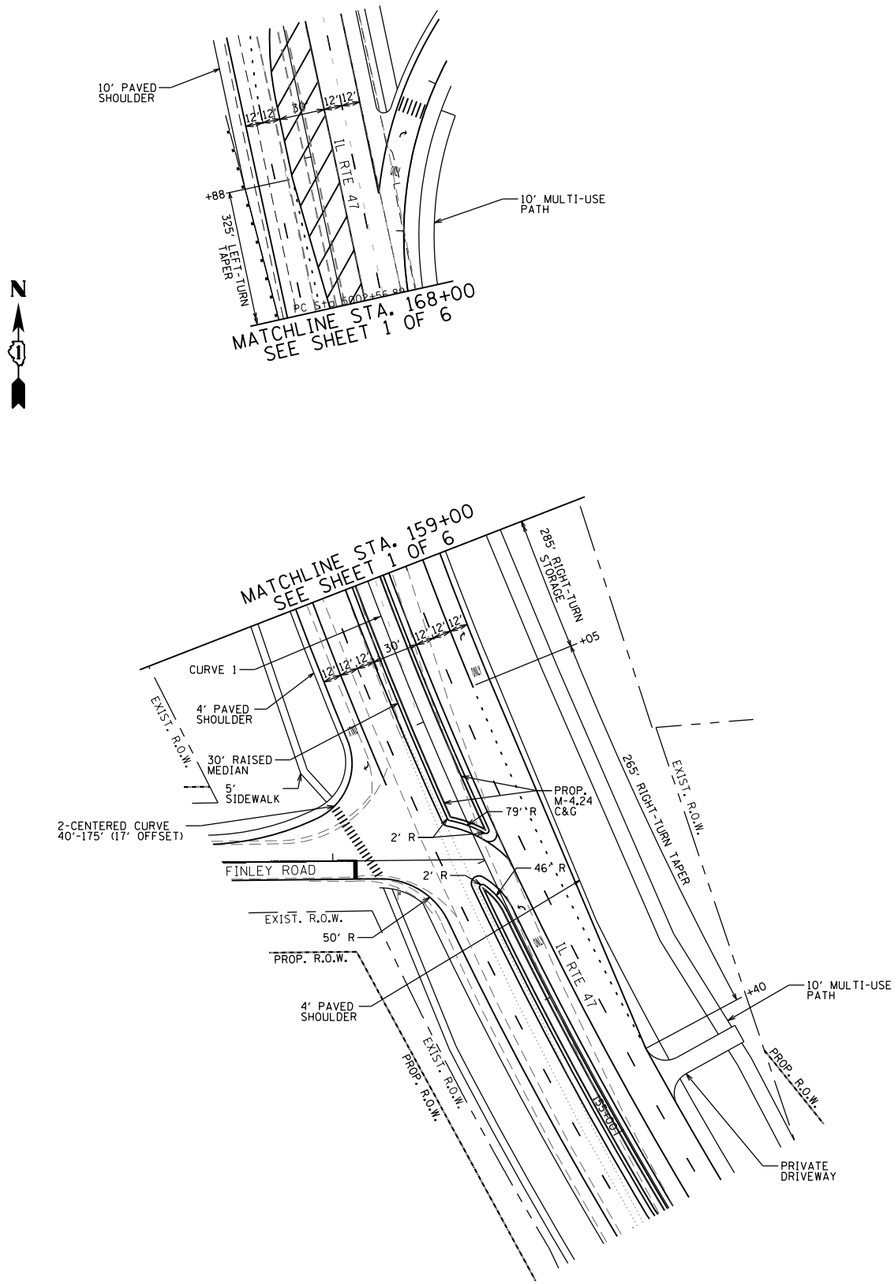
PLOT SCALE = 100.0000 ' / in.
USER NAME = emma.albers



CURVE 1
PI STA. = 157+77.88
Δ = 22° 46' 10'' (RT)
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R = 2,550.00'
T = 513.46'
L = 1,013.37'
E = 51.18'
e = 4.80%
T.R. = 80'
S.E. RUN = 192'
P.C. STA. = 152+64.42
P.T. STA. = 162+77.79

0 50 100 150
SCALE IN FEET

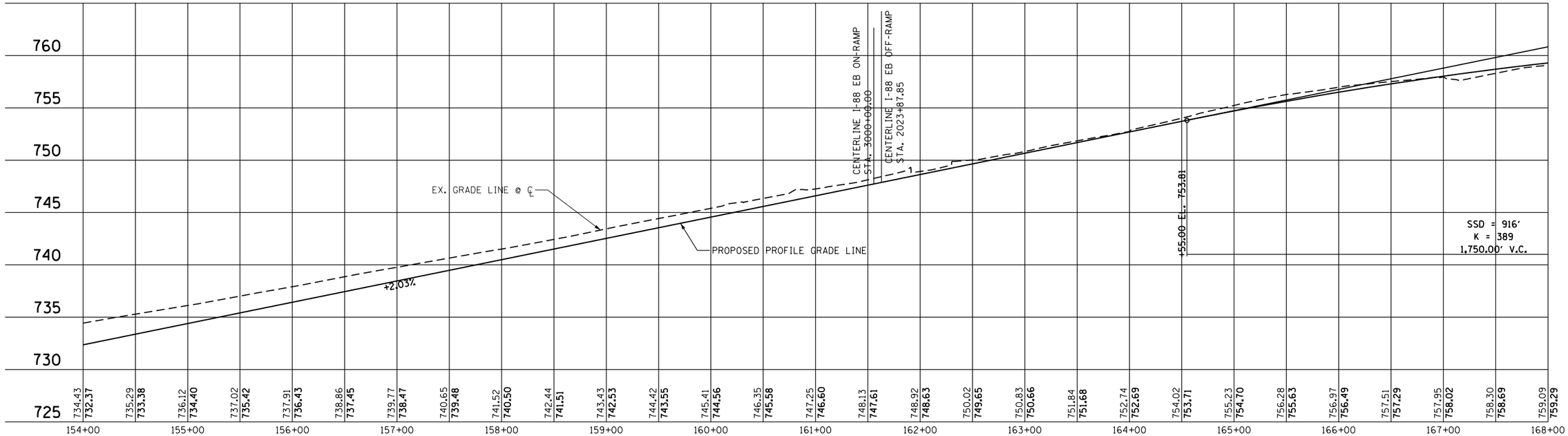
INTERSECTION DESIGN STUDY

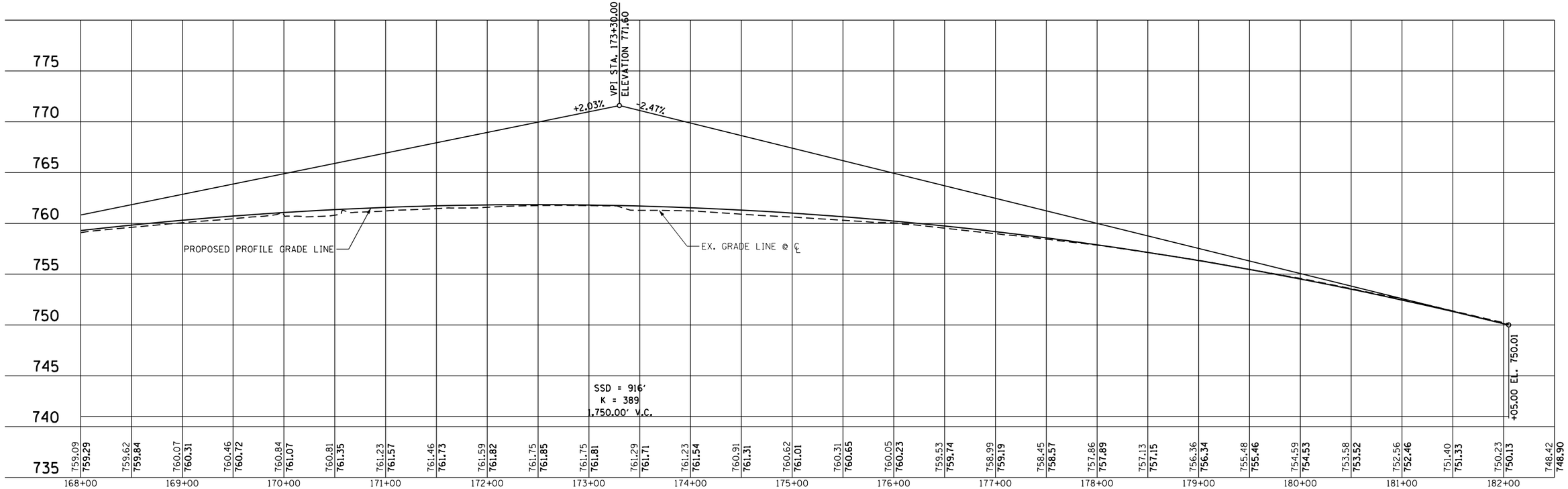
FAP ROUTE 326 I-88 EASTBOUND OFF-RAMP
WITH
IL ROUTE 47 I-88 EASTBOUND ON-RAMP

SEC. NO. 14-00028-00-CH
SCALE 1"=50' COUNTY KANE
SJN : P-91-015-14 PROJ. NO.

I.D.S. SHEET 2 OF 6

BDE-9908





PROFILE OF IL RTE 47

INTERSECTION DESIGN STUDY

FAP ROUTE 326 I-88 EASTBOUND OFF-RAMP
IL ROUTE 47 WITH I-88 EASTBOUND ON-RAMP

SEC. NO. 14-00028-00-CH
SCALE H: 1"=50' V: 1"=5'
COUNTY KANE
SJN : P-91-015-14
PROJ. NO.

I.D.S. SHEET 3 OF 6

BDE-9908

PLOT DATE = 6/25/2018
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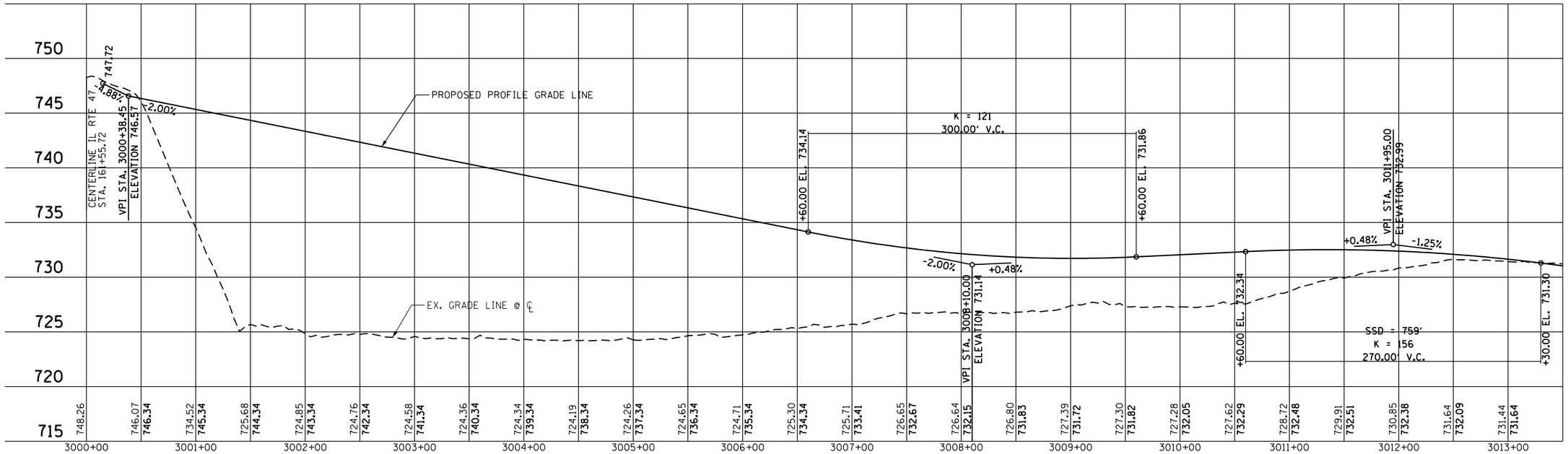
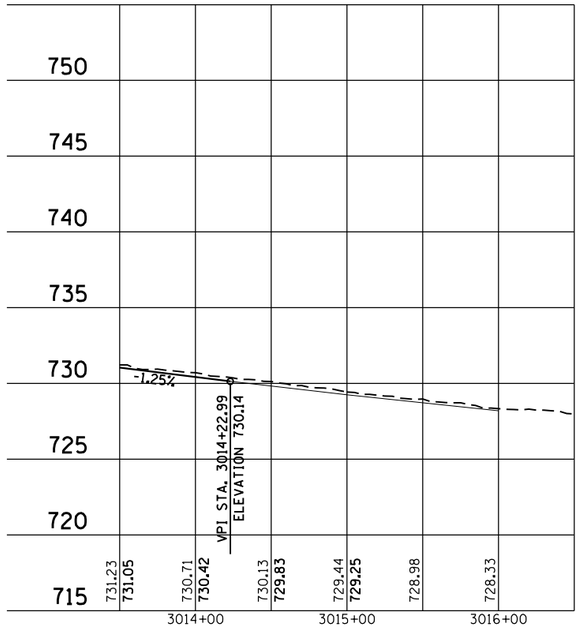
PLOT SCALE = 100.0000 ' / in.
USER NAME = emma.albers



PROFILE OF I-88 EB ON-RAMP



PROFILE OF I-88 EB ON-RAMP

INTERSECTION DESIGN STUDY

FAP ROUTE 326 WITH I-88 EASTBOUND OFF-RAMP
IL ROUTE 47 I-88 EASTBOUND ON-RAMP

SEC. NO. 14-00028-00-CH
SCALE H: 1"=50' V: 1"=5'
COUNTY KANE
SJN : P-91-015-14
PROJ. NO.

I.D.S. SHEET 4 OF 6

BDE-9908

PLOT DATE = 6/25/2018
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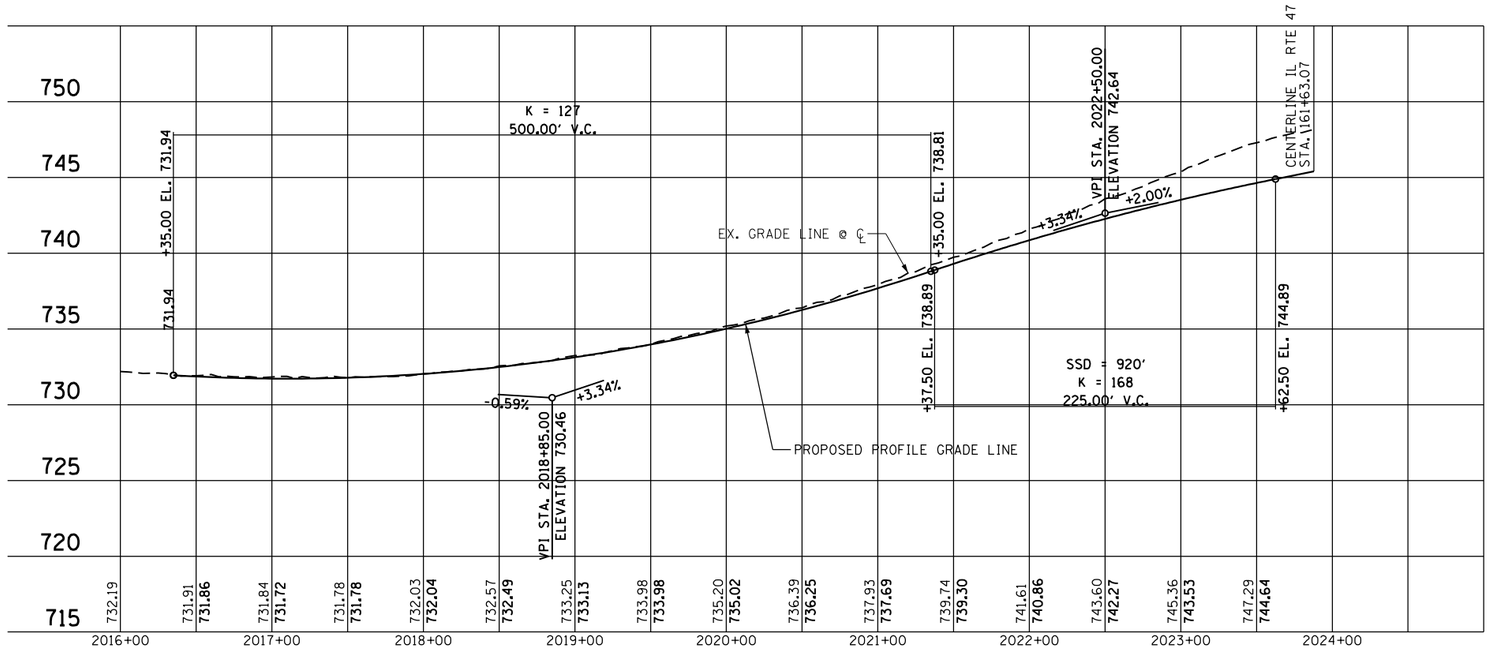

PROFILE OF I-88 EB OFF-RAMP

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PLOT SCALE = 100.0000 ' / in.
USER NAME = emma.albers

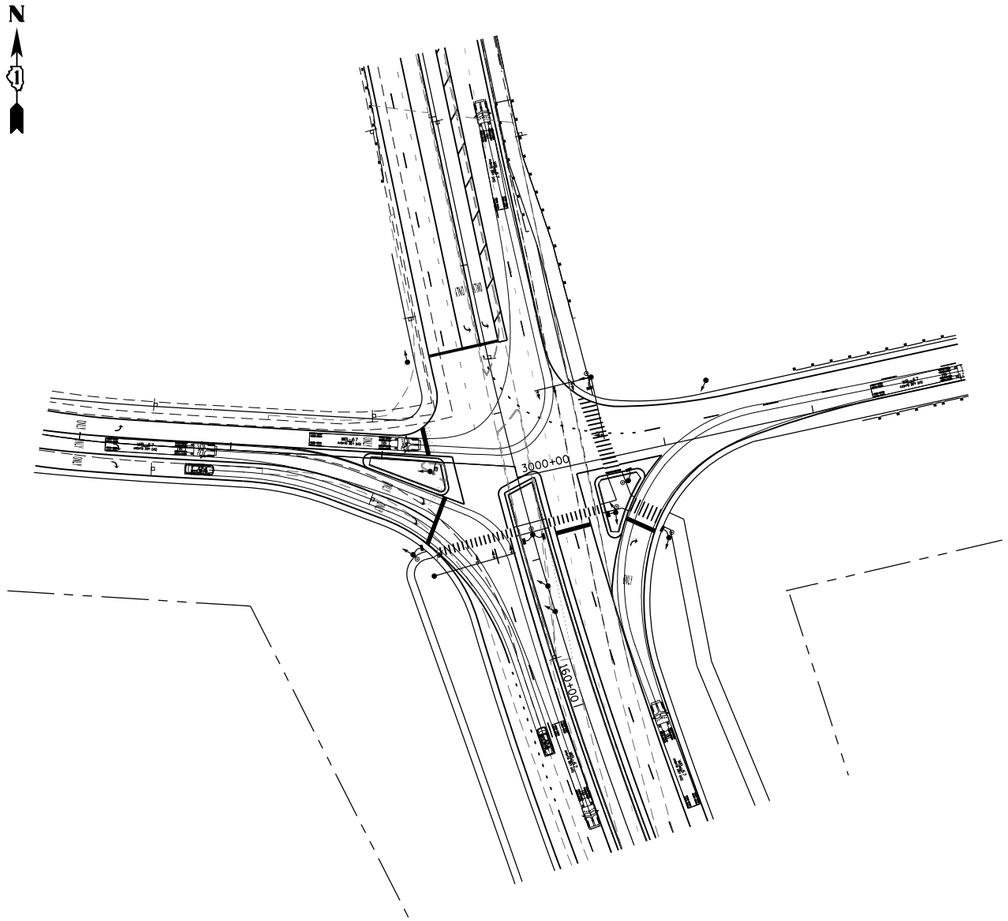
INTERSECTION DESIGN STUDY

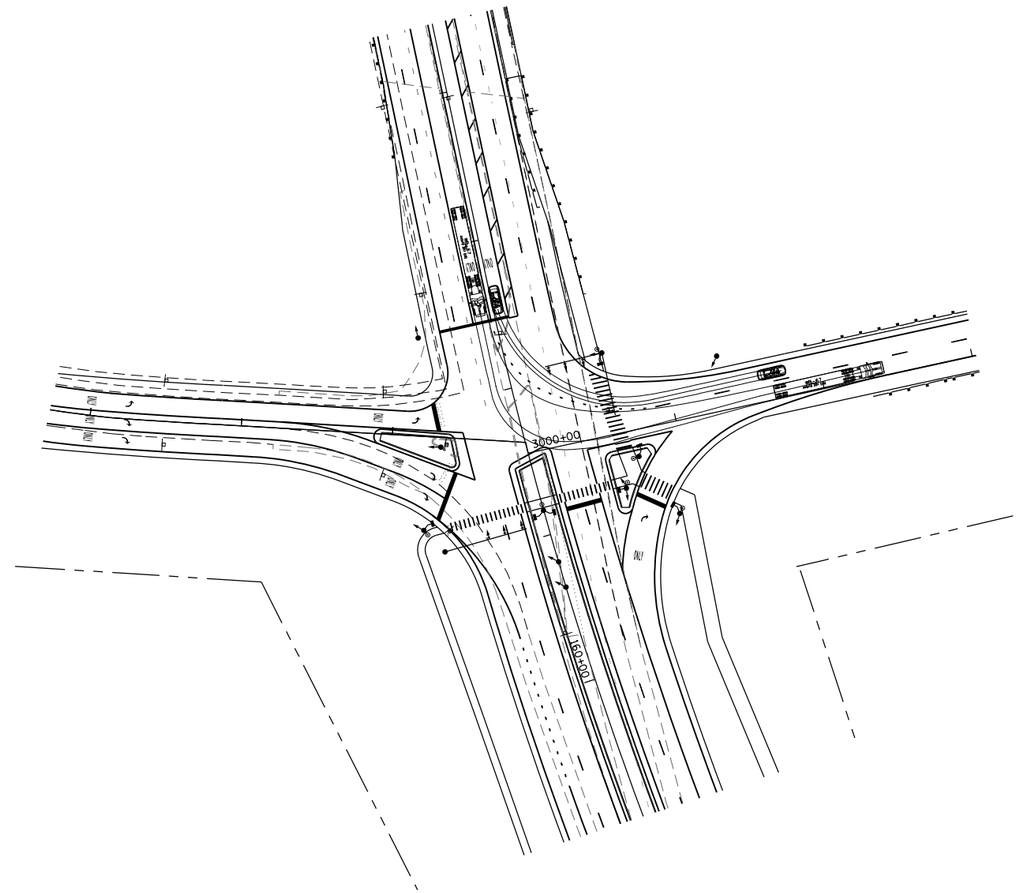
FAP ROUTE 326 WITH I-88 EASTBOUND OFF-RAMP
IL ROUTE 47 I-88 EASTBOUND ON-RAMP

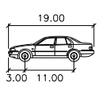
SEC. NO. 14-00028-00-CH
SCALE H: 1"=50' V: 1"=5'
COUNTY KANE
SJN : P-91-015-14
PROJ. NO.

I.D.S. SHEET 5 OF 6

BDE-9908

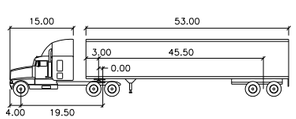






P

	feet
Width	: 7.00
Track	: 6.00
Lock to Lock Time	: 6.0
Steering Angle	: 31.6



WB-67

	feet		
Tractor Width	: 8.00	Lock to Lock Time	: 6.0
Trailer Width	: 8.50	Steering Angle	: 28.4
Tractor Track	: 8.00	Articulating Angle	: 75.0
Trailer Track	: 8.50		

0 50 100 150

SCALE IN FEET

INTERSECTION DESIGN STUDY

FAP ROUTE 326 I-88 EASTBOUND OFF-RAMP

WITH

IL ROUTE 47 I-88 EASTBOUND ON-RAMP

SEC. NO. 14-00028-00-CH

SCALE 1"=50' COUNTY KANE

SJN : P-91-015-14 PROJ. NO.

I.D.S. SHEET 6 OF 6

BDE-9908

PLOT DATE = 6/25/2018
FILE NAME = K:\CHS_TPTO\168279001 I-88 & IL 47 Phase I - Sugar Grove\Design\IDS or Signals\IDS6 I-88EB_IL47.dgn
PLOT SCALE = 100.0000 ' / in.
USER NAME = emma.albers

PLOT DATE = 7/31/2018
FILE NAME = K:\CHS_TPTO\168279001 I-88 & IL 47 Phase I - Sugar Grove\Design\IDS or Signals\IDS; I-88WB_IL47.dgn
PLOT SCALE = 100.0000 ' / in.
USER NAME = emma.albers

SIGNALIZED CAPACITY DESIGN ANALYSIS

PROGRAM USED: HCS7 , VERSION: 7.2 SIGNAL TYPE: ACTUATED AREA TYPE: NON-CBD
NUMBER OF PHASES: (A.M.) 2 (P.M.) 2 CYCLE LENGTH: (A.M.) 120 SEC. (P.M.) 120 SEC. PEAK HOUR FACTOR: 0.95
INTERSECTION DELAY/LEVEL-OF-SERVICE A.M. 10.6 SECONDS LOS B P.M. 12.6 SECONDS LOS B

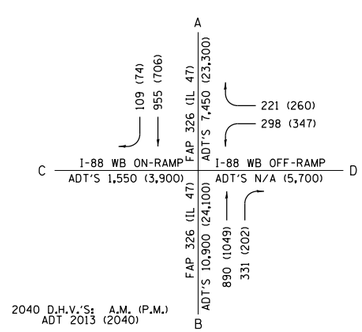
APPROACH		EASTBOUND (C)				WESTBOUND (D)				NORTHBOUND (B)				SOUTHBOUND (A)			
LANE GROUP						L	R			T	R			T	R		
NUMBER OF LANES						2	1			2	1			2	1		
2040 30TH MAX. HOUR TRAFFIC (veh/h)	A.M.					298	221			890	331			955	109		
	P.M.					347	260			1049	202			706	74		
BASE SATURATION FLOW RATE (veh/h)						1900	1900			2000	1900			2000	1900		
LANE WIDTH (FT)						12	12			12	12			12	12		
VOLUME OF RIGHT TURN ON RED (veh/h)		A.M.		P.M.		A.M.	0	P.M.	0	A.M.	0	P.M.	0	A.M.	0	P.M.	0
PEDESTRIANS/HOUR (ped/h)		A.M.		P.M.		A.M.	0	P.M.	0	A.M.	0	P.M.	0	A.M.	0	P.M.	0
ARRIVAL TYPE						3				4				4			
LANE UTILIZATION ADJ. FACTOR						0.971	1.000			0.952	1.000			0.952	1.000		
GREEN TIME (SECONDS)	A.M.					24.8	24.8			83.2	108.0			83.2	83.2		
	P.M.					26.7	26.7			81.3	108.0			81.3	81.3		
GREEN RATIO (g/C)	A.M.					0.21	0.21			0.69	0.90			0.69	0.69		
	P.M.					0.22	0.22			0.68	0.90			0.68	0.68		
CAPACITY (c)	A.M.					664	297			2352	1359			2413	1099		
	P.M.					758	350			2519	1280			2499	997		
v/c RATIO (X)	A.M.					0.472	0.784			0.398	0.256			0.417	0.104		
	P.M.					0.482	0.782			0.438	0.166			0.297	0.078		
STORAGE QUEUE (FEET OR VEHICLES)	A.M.					219	333			259	60			271	57		
	P.M.					234	347			290	39			197	44		
LANE GROUP DELAY(SECONDS)	A.M.					43.0	54.4			2.0	1.2			2.1	6.3		
	P.M.					41.6	52.4			2.7	1.0			2.3	6.7		
LANE GROUP LEVEL-OF-SERVICE	A.M.					D	D			A	A			A	A		
	P.M.					D	D			A	A			A	A		
APPROACH DELAY (SECONDS/VEHICLE)	A.M.					47.8				1.8				2.5			
	P.M.					46.3				2.4				2.7			
APPROACH LEVEL-OF-SERVICE	A.M.					D				A				A			
	P.M.					D				A				A			

PHASE		1	YELLOW	RED	2	YELLOW	RED	CYCLE LENGTH
GREEN TIME IN SECONDS	A.M.	83.2	4.5	1.5	24.8	4.5	1.5	120 SEC.
	P.M.	81.3	4.5	1.5	26.7	4.5	1.5	120 SEC.

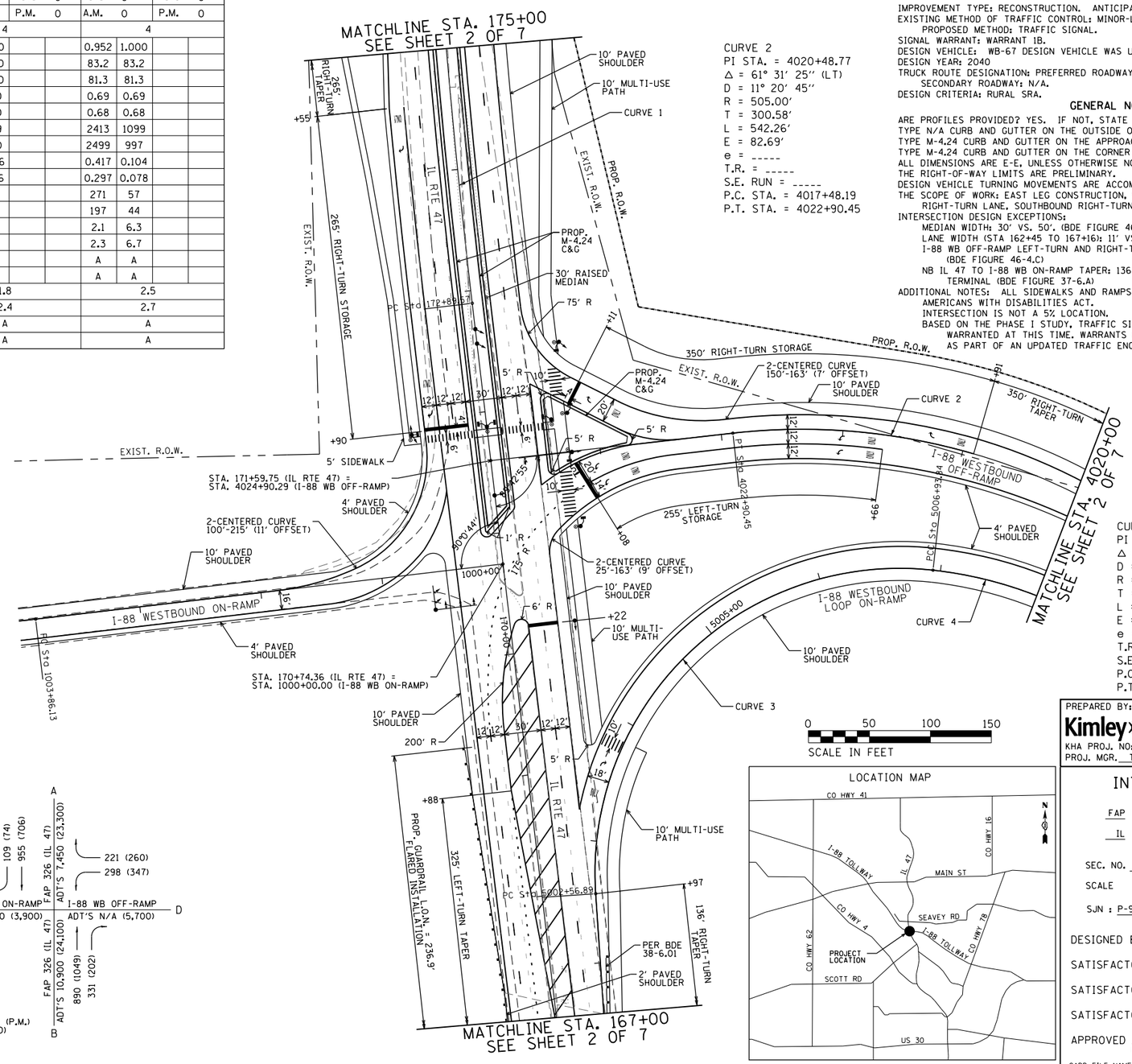
TRAFFIC DATA

MOVEMENT	YEAR 2015 30TH MAXIMUM HOUR TRAFFIC		PERCENT TRUCK TRAFFIC IN 30TH MAX. HOUR		ESTIMATED PERCENT INCREASE BY 2040	YEAR 2040 30TH MAXIMUM HOUR TRAFFIC	
	A.M.	P.M.	A.M.	P.M.		A.M.	P.M.
AD (L)							
AB (T)	392	295	11	4	240%	955	706
AC (R)	26	15	0	11	455%	109	74
BC (L)	153	94	8	15	N/A	N/A	N/A
BA (T)	364	414	14	3	250%	890	1049
BD (R)	N/A	N/A	N/A	N/A	N/A	331	202
CA (L)							
CD (T)							
CB (R)							
DB (L)	N/A	N/A	N/A	N/A	N/A	298	347
DC (T)							
DA (R)	N/A	N/A	N/A	N/A	N/A	221	260
TOTAL A	418	310				1064	780
TOTAL B	517	508				1221	1251
TOTAL C							
TOTAL D	N/A	N/A				519	607

T = THROUGH, L = LEFT, R = RIGHT



2040 D.H.V.'S: A.M. (P.M.)
ADT 2013 (2040)



CURVE 1
PI STA. = 176+07.31
Δ = 5° 33' 47'' (RT)
D = 0° 52' 34''
R = 6,540.00'
T = 317.74'
L = 634.98'
E = 7.71'
e = 2.40%
T.R. = 80'
S.E. RUN = 96'
P.C. STA. = 172+89.57
P.T. STA. = 179+24.55

CURVE 2
PI STA. = 4020+48.77
Δ = 61° 31' 25'' (LT)
D = 11° 20' 45''
R = 505.00'
T = 300.58'
L = 542.26'
E = 82.69'
e = -----
T.R. = -----
S.E. RUN = -----
P.C. STA. = 4017+48.19
P.T. STA. = 4022+90.45

CURVE 3
PI STA. = 5005+55.58
Δ = 100° 08' 28'' (RT)
D = 22° 55' 06''
R = 250.00'
T = 298.68'
L = 436.95'
E = 139.50'
e = -----
T.R. = -----
S.E. RUN = -----
P.C. STA. = 5002+56.89
P.T. STA. = 5006+93.84

CURVE 4
PI STA. = 5008+88.63
Δ = 60° 48' 06'' (RT)
D = 17° 15' 28''
R = 332.00'
T = 194.79'
L = 352.32'
E = 52.92'
e = -----
T.R. = -----
S.E. RUN = -----
P.C. STA. = 5006+93.84
P.T. STA. = 5010+46.16

ELEMENTS CONTROLLING DESIGN

PREFERRED ROUTE:

F.A. ROUTE NUMBER: FAP 326. MARKED ROUTE NUMBER: IL 47.
STREET NAME: IL 47. SRA ROUTE? YES.
FUNCTIONAL CLASSIFICATION: OTHER PRINCIPAL ARTERIAL. OSOW DESIGN? YES.
EXISTING ADT: 7,450 VPD. DESIGN YEAR ADT: 23,300 VPD.
PROPOSED DESIGN SPEED: 60 MPH. PROPOSED POSTED SPEED: 55 MPH.

SECONDARY ROUTE:

F.A. ROUTE NUMBER: N/A. MARKED ROUTE NUMBER: I-88 (RONALD REAGAN TOLLWAY).
STREET NAME: I-88 WB ON-RAMP (W. LEG). SRA ROUTE? NO.
STREET NAME: I-88 WB OFF-RAMP (E. LEG). SRA ROUTE NO.
FUNCTIONAL CLASSIFICATION: INTERSTATE. OSOW DESIGN? YES.
W. LEG - EXISTING ADT: 1,550 VPD. DESIGN YEAR ADT: 3,900 VPD.
E. LEG - EXISTING ADT: N/A. DESIGN YEAR ADT: 5,700 VPD.
PROPOSED DESIGN SPEED: 40 MPH. PROPOSED POSTED SPEED: 35 MPH.

IMPROVEMENT TYPE: RECONSTRUCTION. ANTICIPATED YEAR OF CONSTRUCTION: FY 2040.
EXISTING METHOD OF TRAFFIC CONTROL: MINOR-LEG STOP-CONTROLLED.
PROPOSED METHOD: TRAFFIC SIGNAL.
SIGNAL WARRANT: WARRANT 1B.
DESIGN VEHICLE: WB-67 DESIGN VEHICLE WAS UTILIZED AT THIS INTERSECTION.
DESIGN YEAR: 2040
TRUCK ROUTE DESIGNATION: PREFERRED ROADWAY: IL 47 - CLASS II.
SECONDARY ROADWAY: N/A.
DESIGN CRITERIA: RURAL SRA.

GENERAL NOTES

ARE PROFILES PROVIDED? YES. IF NOT, STATE REASON WHY: N/A.
TYPE N/A CURB AND GUTTER ON THE OUTSIDE OF THE ROADWAY/SHOULDERS.
TYPE M-4.24 CURB AND GUTTER ON THE APPROACH MEDIAN.
TYPE M-4.24 CURB AND GUTTER ON THE CORNER ISLANDS.
ALL DIMENSIONS ARE E-E, UNLESS OTHERWISE NOTED
THE RIGHT-OF-WAY LIMITS ARE PRELIMINARY.
DESIGN VEHICLE TURNING MOVEMENTS ARE ACCOMMODATED PER AUTOTURN SOFTWARE, VERSION 10.
THE SCOPE OF WORK: EAST LEG CONSTRUCTION, WEST LEG RECONSTRUCTION, NORTHBOUND RIGHT-TURN LANE, SOUTHBOUND RIGHT-TURN LANE.
INTERSECTION DESIGN EXCEPTIONS:
MEDIAN WIDTH: 30' VS. 50'. (BDE FIGURE 46-4.C)
LANE WIDTH (STA 162+45 TO 167+16): 11' VS 12'. (BDE FIGURE 46-4.C)
I-88 WB OFF-RAMP LEFT-TURN AND RIGHT-TURN: LOS D VS. LOS C (AM+PM) (BDE FIGURE 46-4.C)
NB IL 47 TO I-88 WB ON-RAMP TAPER: 136' TAPER VS. STANDARD EXIT RAMP TERMINAL (BDE FIGURE 37-6.A)
ADDITIONAL NOTES: ALL SIDEWALKS AND RAMPS AS SHOWN ARE IN COMPLIANCE WITH THE AMERICANS WITH DISABILITIES ACT.
INTERSECTION IS NOT A 5% LOCATION.
BASED ON THE PHASE I STUDY, TRAFFIC SIGNALS FOR THIS INTERSECTION ARE NOT WARRANTED AT THIS TIME. WARRANTS CAN BE REEVALUATED IN THE FUTURE AS PART OF AN UPDATED TRAFFIC ENGINEERING STUDY.

PREPARED BY:
Kimley»Horn
1001 WARRENVILLE RD
SUITE 350
LISLE, IL 60532
(630) 487-5550
KHA PROJ. NO: 168414000
PROJ. MGR. TPS PROJ. ENG. EJA

INTERSECTION DESIGN STUDY

FAP ROUTE 326 WITH I-88 WESTBOUND ON-RAMP
IL ROUTE 47 I-88 WESTBOUND OFF-RAMP

SEC. NO. 14-00028-00-CH PROJ. NO. _____
SCALE 1"=50' COUNTY KANE
SJN : P-91-015-14 REV. NO. ___

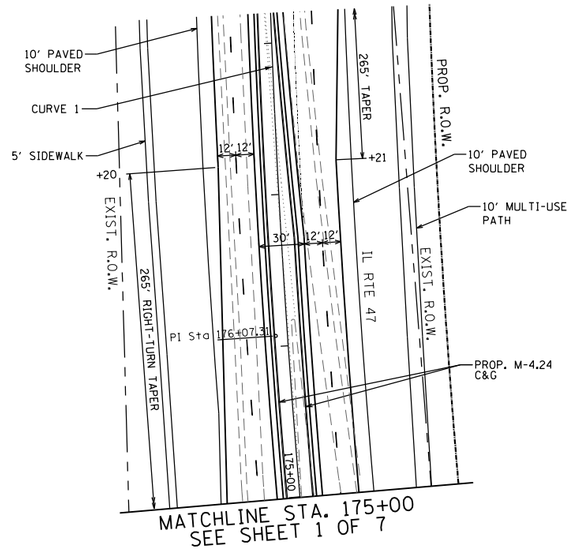
DESIGNED BY EMMA J. ALBERS DATE: 8/01/2018

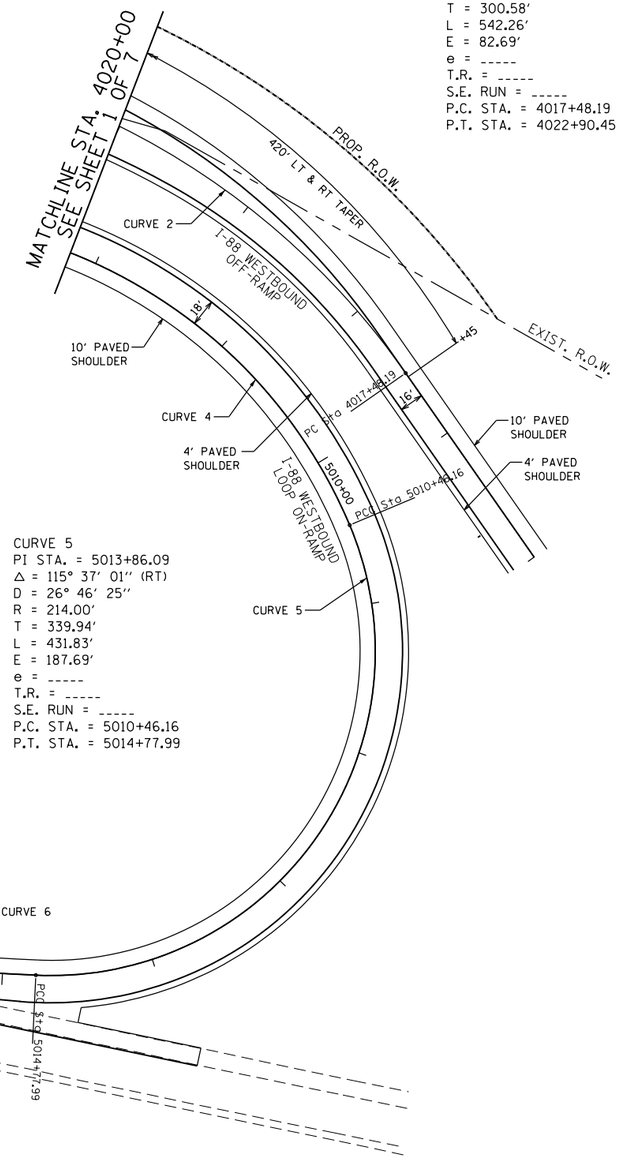
SATISFACTORY _____ DISTRICT GEOMETRICS ENGINEER _____ DATE
SATISFACTORY _____ DISTRICT PROGRAM DEVELOPMENT ENGINEER _____ DATE
SATISFACTORY _____ DISTRICT OPERATIONS ENGINEER _____ DATE
APPROVED _____ DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER _____ DATE

CADD FILE NAME : [ ] I.D.S. SHEET 1 OF 7

BDE-9908

CURVE 1
PI STA. = 176+07.31
Δ = 5° 33′ 47″ (RT)
D = 0° 52′ 34″
R = 6,540.00′
T = 317.74′
L = 634.98′
E = 7.71′
e = -----
T.R. = -----
S.E. RUN = -----
P.C. STA. = 172+89.57
P.T. STA. = 179+24.55

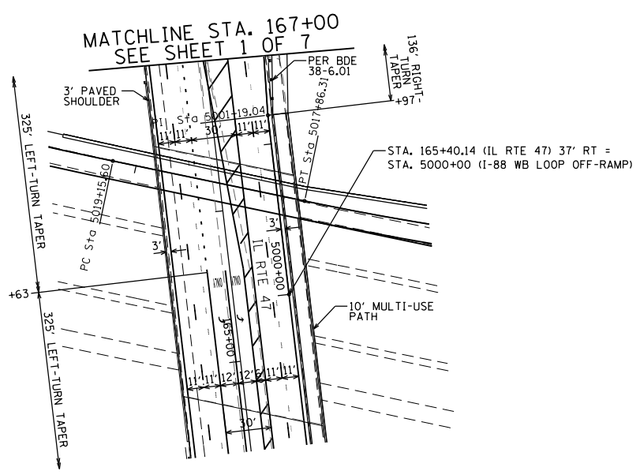




CURVE 2
PI STA. = 4020+48.77
Δ = 61° 31′ 25″ (LT)
D = 11° 20′ 45″
R = 505.00′
T = 300.58′
L = 542.26′
E = 82.69′
e = -----
T.R. = -----
S.E. RUN = -----
P.C. STA. = 4017+48.19
P.T. STA. = 4022+90.45

CURVE 4
PI STA. = 5008+88.63
Δ = 60° 48′ 06″ (RT)
D = 17° 15′ 28″
R = 332.00′
T = 194.79′
L = 352.32′
E = 52.92′
e = -----
T.R. = -----
S.E. RUN = -----
P.C. STA. = 5006+93.84
P.T. STA. = 5010+46.16

CURVE 5
PI STA. = 5013+86.09
Δ = 115° 37′ 01″ (RT)
D = 26° 46′ 25″
R = 214.00′
T = 339.94′
L = 431.83′
E = 187.69′
e = -----
T.R. = -----
S.E. RUN = -----
P.C. STA. = 5010+46.16
P.T. STA. = 5014+77.99



CURVE 6
PI STA. = 5016+32.49
Δ = 9° 14′ 59″ (RT)
D = 3° 00′ 00″
R = 1,909.86′
T = 154.50′
L = 308.33′
E = 6.24′
e = -----
T.R. = -----
S.E. RUN = -----
P.C. STA. = 5014+77.99
P.T. STA. = 5017+86.31

0 50 100 150
SCALE IN FEET

INTERSECTION DESIGN STUDY

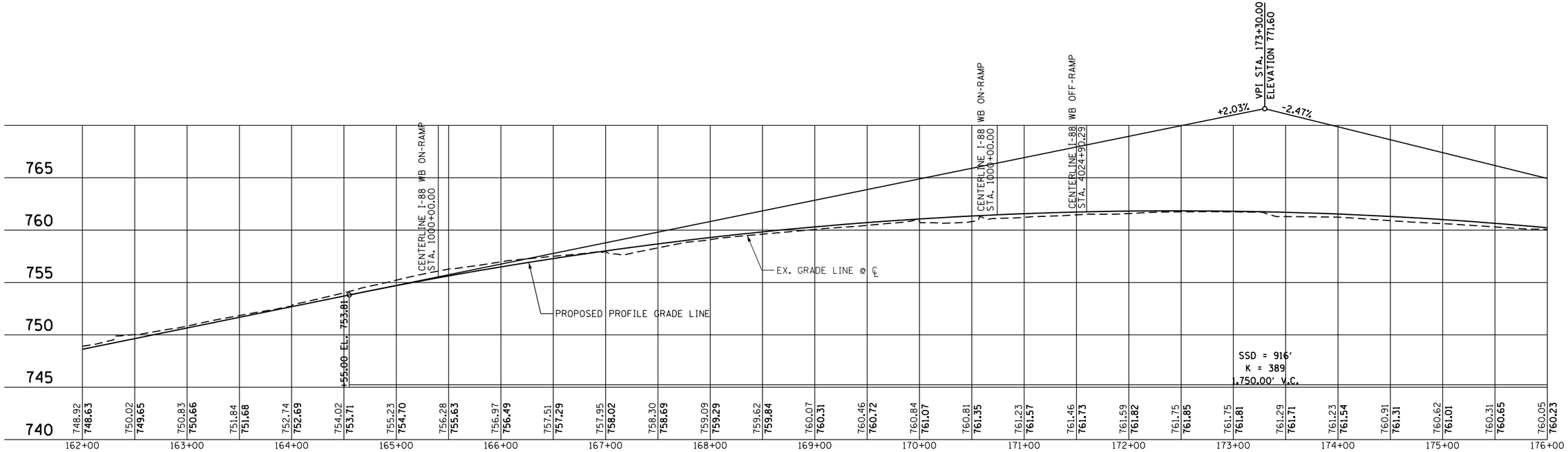
FAP ROUTE 326 I-88 WESTBOUND OFF-RAMP
WITH
IL ROUTE 47 I-88 WESTBOUND ON-RAMP

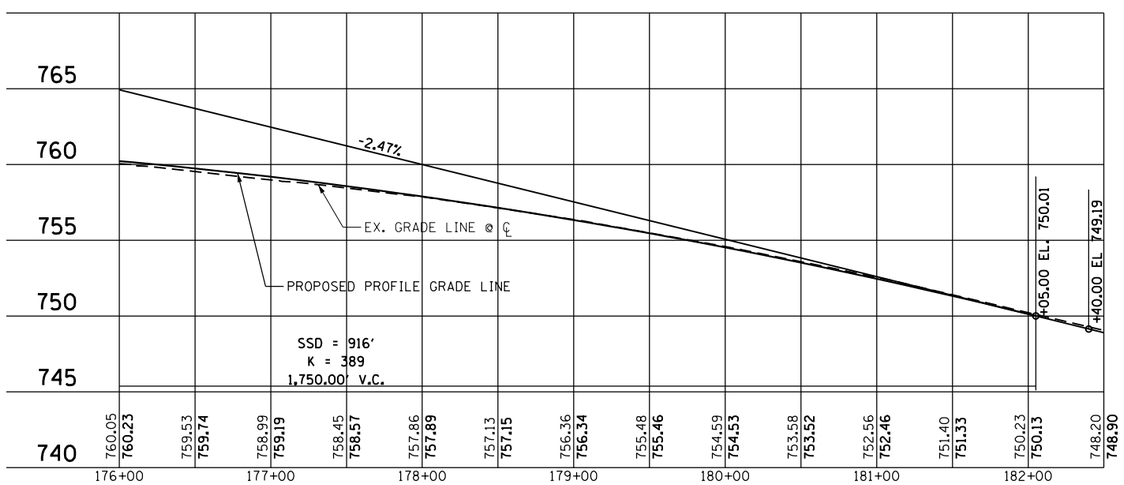
SEC. NO. 14-00028-00-CH
SCALE 1″=50′ COUNTY KANE
SJN : P-91-015-14 PROJ. NO.

I.D.S. SHEET 2 OF 7

BDE-9908

PLOT DATE = 6/25/2018
FILE NAME = K:\CHS_TPTO\168279001 I-88 & IL 47 Phase I - Sugar Grove\Design\IDS or Signals\IDS2 I-88WB_IL47.dgn
PLOT SCALE = 100.0000 ' / in.
USER NAME = emma.albers





PROFILE OF IL RTE 47

INTERSECTION DESIGN STUDY

FAP ROUTE 326 WITH I-88 WESTBOUND OFF-RAMP

IL ROUTE 47 I-88 WESTBOUND ON-RAMP

SEC. NO. 14-00028-00-CH

SCALE H: 1"=50' V: 1"=5'

COUNTY KANE

SJN : P-91-015-14

PROJ. NO.

I.D.S. SHEET 3 OF 7

BDE-9908

PLOT DATE = 6/25/2018
FILE NAME = K:\CHS_TPTO\168279001 I-88 & IL 47 Phase I - Sugar Grove\Design\IDS or Signals\IDS3 I-88WB_IL47.dgn
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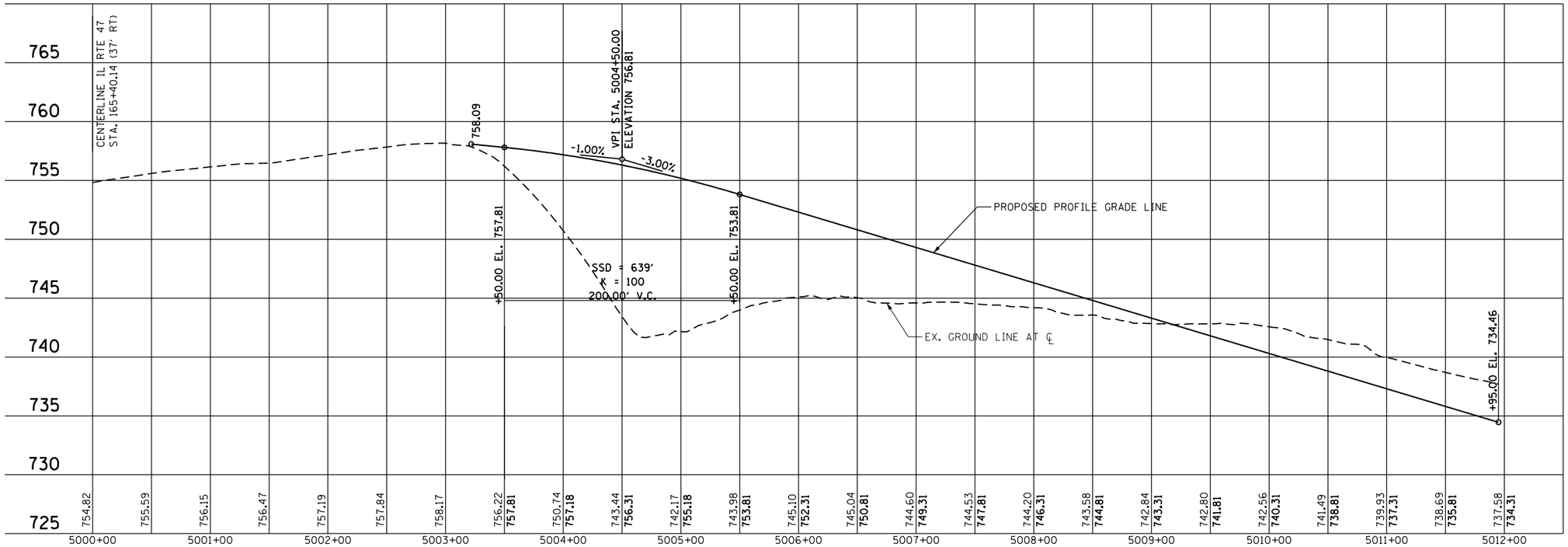
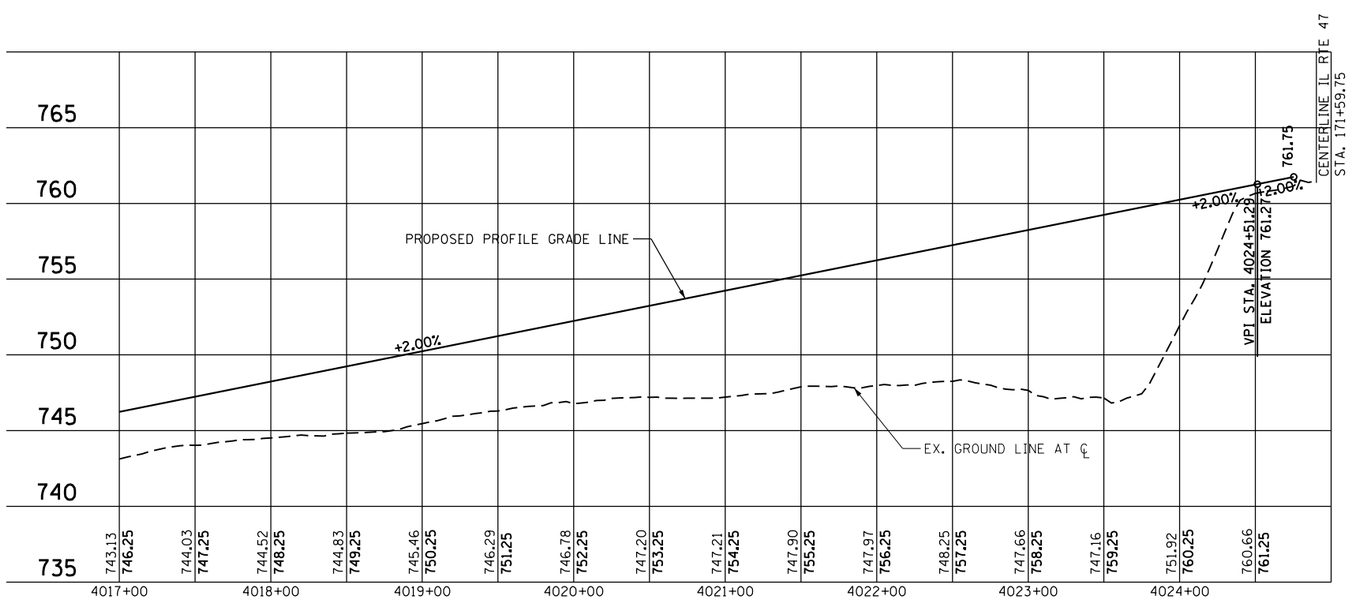


PROFILE OF I-88 WB LOOP ON-RAMP



PROFILE OF I-88 WB OFF-RAMP

INTERSECTION DESIGN STUDY

FAP ROUTE 326 I-88 WESTBOUND OFF-RAMP
IL ROUTE 47 WITH I-88 WESTBOUND ON-RAMP

SEC. NO. 14-00028-00-CH
SCALE H: 1"=50' V: 1"=5'
COUNTY KANE
SJN : P-91-015-14
PROJ. NO.

I.D.S. SHEET 4 OF 7

BDE-9908

PLOT DATE = 6/25/2018
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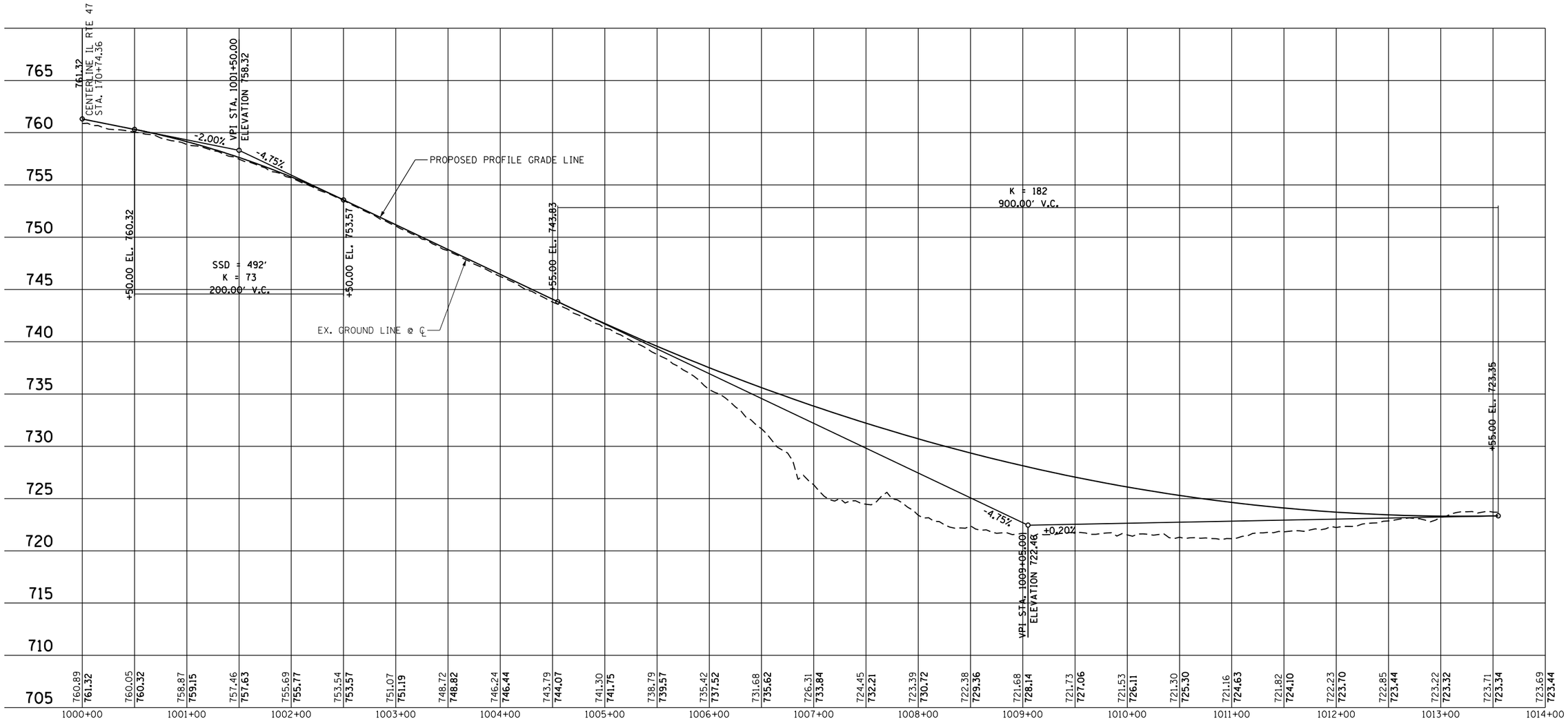

PROFILE OF I–88 WB ON–RAMP

PLOT DATE = 6/25/2018
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USER NAME = emma.albers

INTERSECTION DESIGN STUDY

FAP ROUTE 326 I-88 WESTBOUND OFF-RAMP
IL ROUTE 47 WITH I-88 WESTBOUND ON-RAMP

SEC. NO. 14-00028-00-CH
SCALE H: 1"=50' V: 1"=5'
COUNTY KANE
SJN : P-91-015-14
PROJ. NO.

I.D.S. SHEET 5 OF 7

BDE-9908

PLOT DATE = 6/25/2018
FILE NAME = K:\CHS_TPTO\168279001 I-88 & IL 47 Phase I - Sugar Grove\Design\IDS or Signals\IDS6 I-88WB_IL47.dgn
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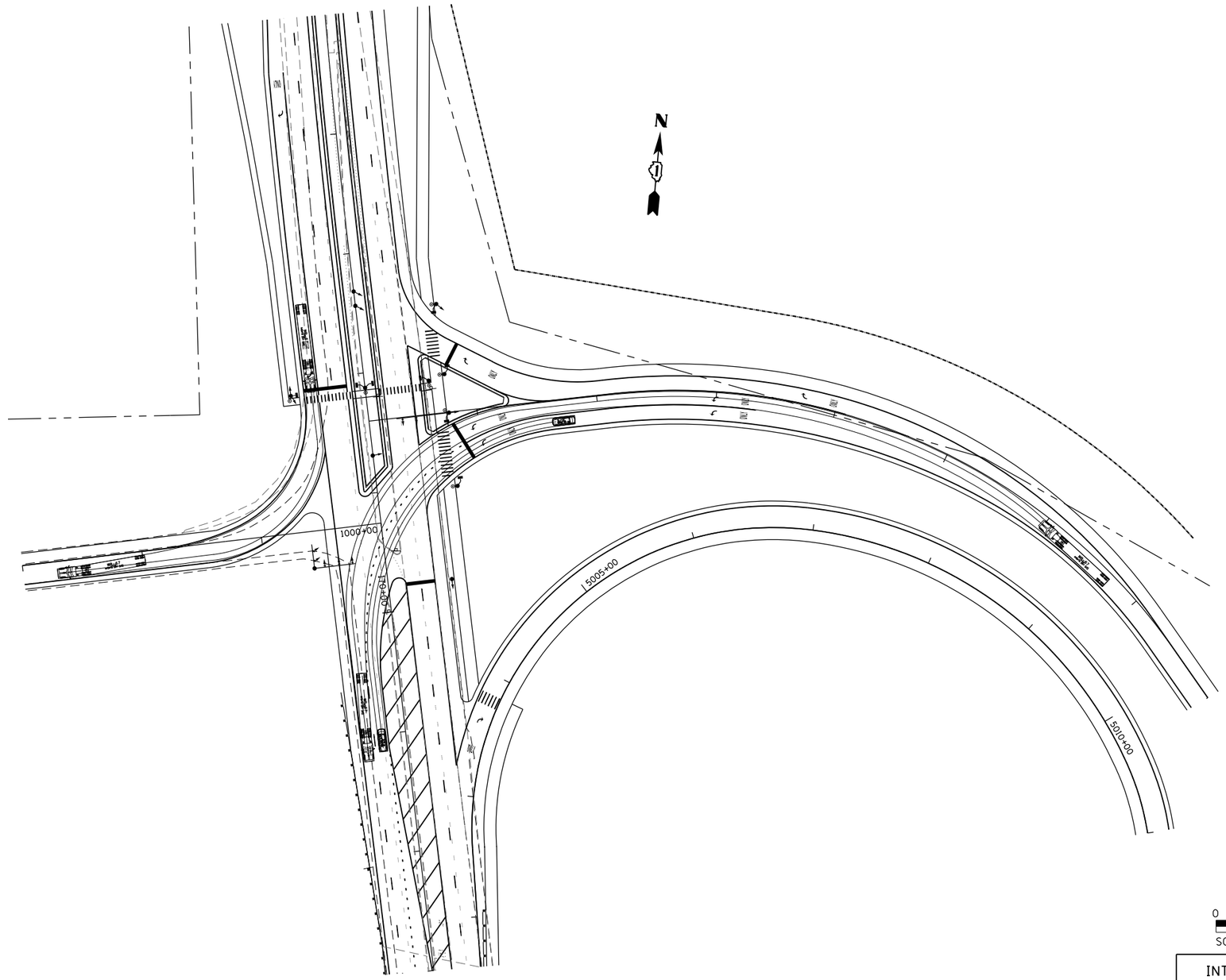
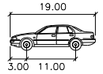
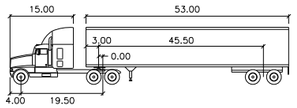




P

	feet
Width	: 7.00
Track	: 6.00
Lock to Lock Time	: 6.0
Steering Angle	: 31.6



WB-67

	feet		
Tractor Width	: 8.00	Lock to Lock Time	: 6.0
Trailer Width	: 8.50	Steering Angle	: 28.4
Tractor Track	: 8.00	Articulating Angle	: 75.0
Trailer Track	: 8.50		

0 50 100 150
SCALE IN FEET

INTERSECTION DESIGN STUDY

FAP ROUTE 326 I-88 WESTBOUND OFF-RAMP
WITH
IL ROUTE 47 I-88 WESTBOUND ON-RAMP

SEC. NO. 14-00028-00-CH

SCALE 1"=50' COUNTY KANE

SJN : P-91-015-14 PROJ. NO. _____

I.D.S. SHEET 6 OF 7

BDE-9908

PLOT DATE = 6/25/2018
FILE NAME = K:\CHS_TPTO\168279001 I-88 & IL 47 Phase I - Sugar Grove\Design\IDS or Signals\IDS7 I-88WB_IL47.dgn
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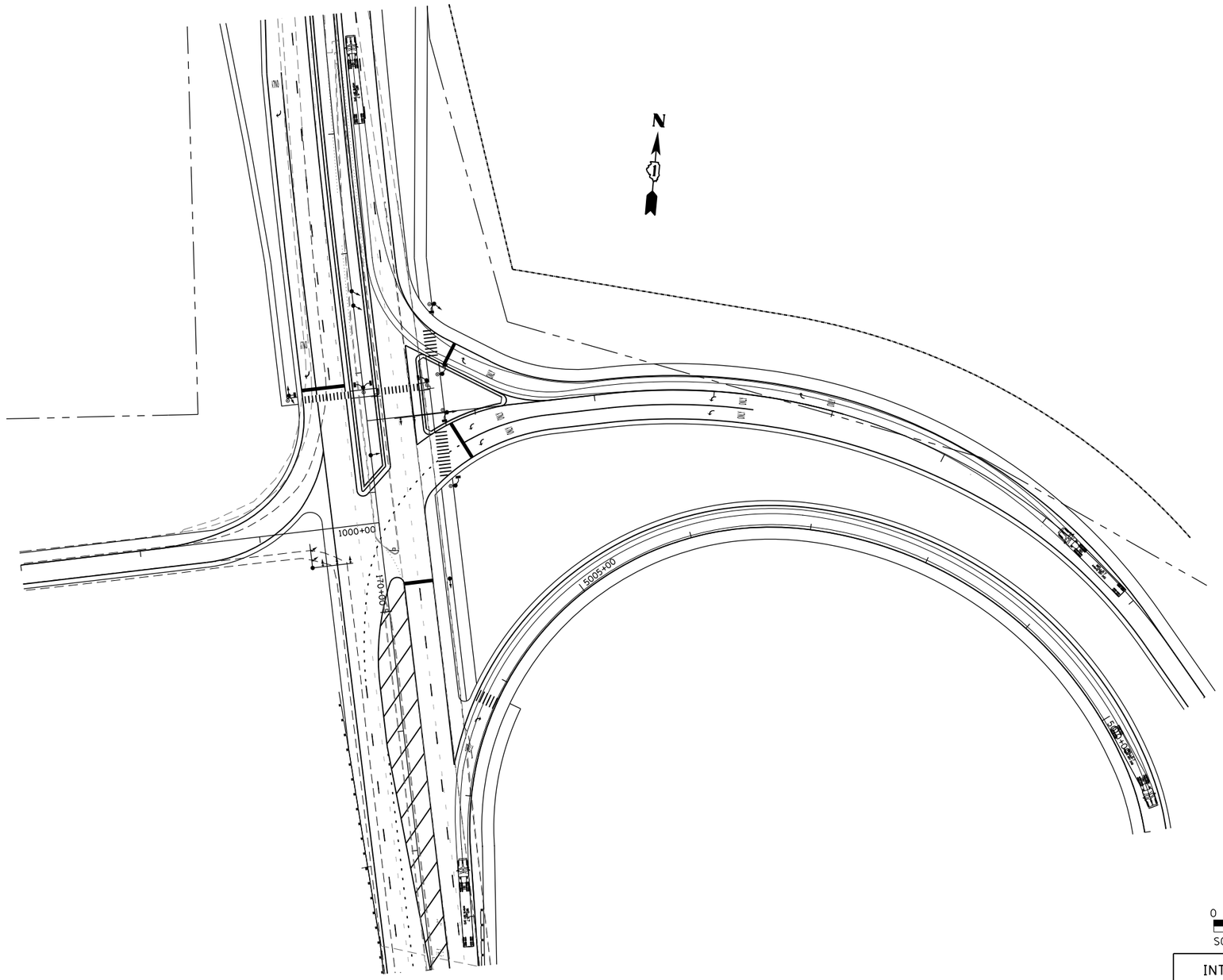
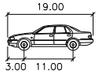
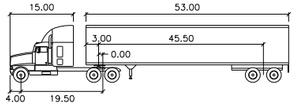




P

	feet
Width	: 7.00
Track	: 6.00
Lock to Lock Time	: 6.0
Steering Angle	: 31.6



WB-67

	feet		
Tractor Width	: 8.00	Lock to Lock Time	: 6.0
Trailer Width	: 8.50	Steering Angle	: 28.4
Tractor Track	: 8.00	Articulating Angle	: 75.0
Trailer Track	: 8.50		

0 50 100 150
SCALE IN FEET

INTERSECTION DESIGN STUDY

FAP ROUTE 326 I-88 WESTBOUND OFF-RAMP
WITH
IL ROUTE 47 I-88 WESTBOUND ON-RAMP

SEC. NO. 14-00028-00-CH

SCALE 1"=50' COUNTY KANE

SJN : P-91-015-14 PROJ. NO.

I.D.S. SHEET 7 OF 7

BDE-9908

Illinois Department of Transportation

Design Exception Request Project Identification

Key Route	Marked Route/Road Name	Contract #	State Job #
FAP Route 326	IL Route 47/Sugar Grove Parkway		P-91-015-14

Section	County(ies)	Municipality
14-00028-00-CH	Kane	Village of Sugar Grove

Local Agency	LRS Section #	Permit Applicant	Permit #
Village of Sugar Grove			

Project Limits

College Drive/Old Oaks Road (south end) to Green Road (north end)

Project Length	Current Posted Speed
2.2 miles (11,539 FT)	55 mph

Estimate of Cost	Functional Classification	Design Yr	Design Traffic ADT	Design Traffic DHV	
24,858,000	Strategic Rgnl. Artrl. (Rural)	2040	26,600	AM 2726	PM 2627

On the NHS System?	Structure Numbers	Type of Project (Construction, Reconstruction, 3R, 3P, SMART, HSIP, etc.)
☒ Yes ☐ No	045-0024, -0082, & -2001	Reconstruction

Brief Project Description

Widening of IL 47 from 2 lanes to 4 lanes. New WB Exit & EB Entrance Ramps & NB-WB Entrance Loop Ramp.

EXCEPTION DOCUMENTATION

Level of Exception ☐ Level One ☒ Level Two

Design Element for Which an Exception is Requested

Median Width

Design Element Policy Value

50' median width Per BDE Fig. 46-4.c

Proposed Design Element Value

30' median width from south project limits to north project limits. See above

Location(s) of Exception

IL 47, College Drive/Old Oaks Road (south end) to Green Road (north end) except bridge over Blackberry Creek

Crash History and Potential of Exception Location(s)

Total of 69 crashes along this segment between 2011-2015. Segment is not a 5% location. Proposed scope of work will not improve the crash history of the project.

Cost of Using Policy Value	Cost of Using Proposed Exception Value
$3,500,000.00	$1,800,000.00

Impacts Other Than Cost of Using Policy Value

There is a desire to minimize ROW impact and project cost.

Proposed Mitigation to Address Exception

Standard inside shoulders with mountable curb and gutter will be provided. A raised grass median will be provided between the mountable curb and gutter. Raised barrier median & pavement marking.

Geometric Compatibility with Adjacent Sections

No issues are expected regarding compatibility with adjacent sections.

Potential Effects on Other Design Elements

Median width will be reduced to 18' at the IL 47 bridge over Blackberry Creek. See other design exception for details.

Potential Impacts on Mobility or Traffic Operations

None

Summary of Justification for Exception

In order to minimize the impact to the adjacent property, the median width will be reduced from SRA Standard of 50' to 30'.

Coordination Meeting Date	Prepared By	Date
08/15/2018	Peter Johnston, GRAEF	06/14/2018

PAVEMENT/RESURFACING EXCEPTIONS

☐ New Pavement ☐ Pavement Widening ☐ Resurfacing

Design Period/ Expected Service Life	Design Year	Structural Design Traffic	%PV	%SU	%MU

Design Element Policy Value	Proposed Design Element Value

Location(s) of Exception

Cost of Using Policy Value	Cost of Using Proposed Element Value

Summary of Justification

Prepared By	Date

APPROVAL/DISAPPROVAL

BDE Approval Date

08/15/2018

FHWA Approval Date (Level One)

Illinois Department of Transportation

Design Exception Request Project Identification

Key Route	Marked Route/Road Name	Contract #	State Job #
FAP Route 326	IL Route 47/Sugar Grove Parkway		P-91-015-14

Section	County(ies)	Municipality
14-00028-00-CH	Kane	Village of Sugar Grove

Local Agency	LRS Section #	Permit Applicant	Permit #
Village of Sugar Grove			

Project Limits

College Drive/Old Oaks Road (south end) to Green Road (north end)

Project Length	Current Posted Speed
2.2 miles (11,539 FT)	55 mph

Estimate of Cost	Functional Classification	Design Yr	Design Traffic ADT	Design Traffic DHV	
24,858,000	Strategic Rgnl. Artrl. (Rural)	2040	26,600	AM 2726	PM 2627

On the NHS System?	Structure Numbers	Type of Project (Construction, Reconstruction, 3R, 3P, SMART, HSIP, etc.)
☒ Yes ☐ No	045-0024, -0082, & -2001	Reconstruction

Brief Project Description

Widening of IL 47 from 2 lanes to 4 lanes. New WB Exit & EB Entrance Ramps & NB-WB Entrance Loop Ramp.

EXCEPTION DOCUMENTATION

Level of Exception ☐ Level One ☒ Level Two

Design Element for Which an Exception is Requested

Median Width

Design Element Policy Value

50' median width Per BDE Fig. 46-4.c

Proposed Design Element Value

18' median width on IL 47 over the Blackberry Cr. bridge

Location(s) of Exception

IL 47, Sta. 109+00 to Sta. 116+65

Crash History and Potential of Exception Location(s)

1 crash along this segment between 2011-2015. Segment is not a 5% location.

Cost of Using Policy Value	Cost of Using Proposed Exception Value
$750,000.00	$300,000.00

Impacts Other Than Cost of Using Policy Value

There is a desire to minimize forest preserve impact thru Hannaford Woods.

Proposed Mitigation to Address Exception

Standard tapers will be used to effect width transition. Distance will be minimized over bridge. Raised barrier median.

Geometric Compatibility with Adjacent Sections

Median will otherwise be treated the same, with M-4.24 curb adjacent to mainline pavement and raised turf median away from the bridge.

Potential Effects on Other Design Elements

Change in width and median treatment will need effective transition.

Potential Impacts on Mobility or Traffic Operations

None

Summary of Justification for Exception

In order to minimize the impact to the forest preserve, the median width will be reduced from 30' to 18'. Outside shoulders will be consistent at 10' throughout the corridor.

Coordination Meeting Date	Prepared By	Date
08/15/2018	Peter Johnston, GRAEF	06/14/2018

PAVEMENT/RESURFACING EXCEPTIONS

☐ New Pavement ☐ Pavement Widening ☐ Resurfacing

Design Period/ Expected Service Life	Design Year	Structural Design Traffic	%PV	%SU	%MU

Design Element Policy Value	Proposed Design Element Value

Location(s) of Exception

Cost of Using Policy Value	Cost of Using Proposed Element Value

Summary of Justification

Prepared By	Date

APPROVAL/DISAPPROVAL

BDE Approval Date

08/15/2018

FHWA Approval Date (Level One)

Illinois Department of Transportation

Design Exception Request Project Identification

Key Route	Marked Route/Road Name	Contract #	State Job #
FAP Route 326	IL Route 47/Sugar Grove Parkway		P-91-015-14

Section	County(ies)	Municipality
14-00028-00-CH	Kane	Village of Sugar Grove

Local Agency	LRS Section #	Permit Applicant	Permit #
Village of Sugar Grove			

Project Limits

College Drive/Old Oaks Road (south end) to Green Road (north end)

Project Length	Current Posted Speed
2.2 miles (11,539 FT)	55 mph

Estimate of Cost	Functional Classification	Design Yr	Design Traffic ADT	Design Traffic DHV	
24,858,000	Strategic Rgnl. Artrl. (Rural)	2040	26,600	AM 2726	PM 2627

On the NHS System?	Structure Numbers	Type of Project (Construction, Reconstruction, 3R, 3P, SMART, HSIP, etc.)
☒ Yes ☐ No	045-0024, -0082, & -2001	Reconstruction

Brief Project Description

Widening of IL 47 from 2 lanes to 4 lanes. New WB Exit & EB Entrance Ramps & NB-WB Entrance Loop Ramp.

EXCEPTION DOCUMENTATION

Level of Exception ☐ **Level One** ☒ **Level Two**

Design Element for Which an Exception is Requested

Median Width

Design Element Policy Value

50' median width Per BDE Fig. 46-4.c

Proposed Design Element Value

12' median width on IL 47

Location(s) of Exception

IL 47, Sta. 203+08 to Sta. 208+00

Crash History and Potential of Exception Location(s)

2 crashes along this segment between 2011-2015. Segment is not a 5% location.

Cost of Using Policy Value	Cost of Using Proposed Exception Value
$150,000.00	$35,000.00

Impacts Other Than Cost of Using Policy Value

There is a desire to minimize impacts to the residential area to the west and to minimize property acquisition.

Proposed Mitigation to Address Exception

A two way left turn lane and flush median is proposed in the subject location.

Geometric Compatibility with Adjacent Sections

Flush median will taper to wider section (30') to the south and taper to 0' to the north where there will only be one lane in each direction.

Potential Effects on Other Design Elements

Standard taper lengths will be utilized.

Potential Impacts on Mobility or Traffic Operations

Traffic may eventually warrant widening to the north. However, current projections do not justify the widening.

Summary of Justification for Exception

In order to minimize the impact to properties both west and east of IL 47, the median width will be reduced from 30' to 12'. SB RTL's will be provided in this area.

Coordination Meeting Date	Prepared By	Date
08/15/2018	Peter Johnston, GRAEF	08/10/2018

PAVEMENT/RESURFACING EXCEPTIONS

☐ New Pavement ☐ Pavement Widening ☐ Resurfacing

Design Period/ Expected Service Life	Design Year	Structural Design Traffic	%PV	%SU	%MU

Design Element Policy Value	Proposed Design Element Value

Location(s) of Exception

Cost of Using Policy Value	Cost of Using Proposed Element Value

Summary of Justification

Prepared By	Date

APPROVAL/DISAPPROVAL

BDE Approval Date

08/15/2018

FHWA Approval Date (Level One)

Illinois Department of Transportation

Design Exception Request Project Identification

Key Route	Marked Route/Road Name	Contract #	State Job #
FAP Route 326	IL Route 47/Sugar Grove Parkway		P-91-015-14

Section	County(ies)	Municipality
14-00028-00-CH	Kane	Village of Sugar Grove

Local Agency	LRS Section #	Permit Applicant	Permit #
Village of Sugar Grove			

Project Limits

College Drive/Old Oaks Road (south end) to Green Road (north end)

Project Length	Current Posted Speed
2.2 miles (11,539 FT)	55 mph

Estimate of Cost	Functional Classification	Design Yr	Design Traffic ADT	Design Traffic DHV	
24,858,000	Strategic Rgnl. Artrl. (Rural)	2040	26,600	AM 2726	PM 2627

On the NHS System?	Structure Numbers	Type of Project (Construction, Reconstruction, 3R, 3P, SMART, HSIP, etc.)
☒ Yes ☐ No	045-0082	Reconstruction

Brief Project Description

Widening of IL 47 from 2 lanes to 4 lanes. New WB Exit & EB Entrance Ramps & NB-WB Entrance Loop Ramp.

EXCEPTION DOCUMENTATION

Level of Exception ☐ Level One ☒ Level Two

Design Element for Which an Exception is Requested

Lane Widths

Design Element Policy Value

12' lane width per BDE Figure 46-4.C

Proposed Design Element Value

11' lane widths

Location(s) of Exception

IL 47 at I-88, Sta. 161+50 to Sta. 171+00

Crash History and Potential of Exception Location(s)

18 crashes along this segment between 2011-2015. Segment is not a 5% location. Proposed scope of work will not improve the crash history of the project.

Cost of Using Policy Value	Cost of Using Proposed Exception Value
$50,000.00	$46,000.00

Impacts Other Than Cost of Using Policy Value

Would require reconstruction or widening of the existing bridge.

Proposed Mitigation to Address Exception

Pavement marking and rumble strips.

Geometric Compatibility with Adjacent Sections

Compatible

Potential Effects on Other Design Elements

Tapers will be needed approaching the narrower lanes.

Potential Impacts on Mobility or Traffic Operations

None

Summary of Justification for Exception

There is a desire to not impact the approximate 10 year old superstructure of the bridge over I-88. A 30' median and 2' outside shoulders will be provided.

Coordination Meeting Date	Prepared By	Date
08/15/2018	Peter Johnston, GRAEF	06/14/2018

PAVEMENT/RESURFACING EXCEPTIONS

☐ New Pavement ☐ Pavement Widening ☐ Resurfacing

Design Period/ Expected Service Life	Design Year	Structural Design Traffic	%PV	%SU	%MU

Design Element Policy Value	Proposed Design Element Value

Location(s) of Exception

Cost of Using Policy Value	Cost of Using Proposed Element Value

Summary of Justification

Prepared By	Date

APPROVAL/DISAPPROVAL

BDE Approval Date

08/15/2018

FHWA Approval Date (Level One)

Illinois Department of Transportation

Design Exception Request Project Identification

Key Route	Marked Route/Road Name	Contract #	State Job #
FAP Route 326	IL Route 47/Sugar Grove Parkway		P-91-015-14

Section	County(ies)	Municipality
14-00028-00-CH	Kane	Village of Sugar Grove

Local Agency	LRS Section #	Permit Applicant	Permit #
Village of Sugar Grove			

Project Limits

College Drive/Old Oaks Road (south end) to Green Road (north end)

Project Length	Current Posted Speed
2.2 miles (11,539 FT)	55 mph

Estimate of Cost	Functional Classification	Design Yr	Design Traffic ADT	Design Traffic DHV	
24,858,000	Strategic Rgnl. Artrl. (Rural)	2040	26,600	AM 2726	PM 2627

On the NHS System?	Structure Numbers	Type of Project (Construction, Reconstruction, 3R, 3P, SMART, HSIP, etc.)
☒ Yes ☐ No	045-0024, -0082, & -2001	Reconstruction

Brief Project Description

Widening of IL 47 from 2 lanes to 4 lanes. New WB Exit & EB Entrance Ramps & NB-WB Entrance Loop Ramp.

EXCEPTION DOCUMENTATION

Level of Exception ☐ Level One ☒ Level Two

Design Element for Which an Exception is Requested

Outside shoulder width

Design Element Policy Value

A 10' outside shoulder width is desired per Fig. 46-4.C in IDOT BDE Manual.

Proposed Design Element Value

2' outside shoulder/gutter widths

Location(s) of Exception

IL 47 at I-88: NB, Sta. 164+00 to Sta. 166+59 (2' shoulder/gutter width), SB, Sta. 164+00 to Sta. 167+17 (2' shoulder/gutter width). For NB, shoulder width transition starts at Sta. 163+20 and 10' width shoulder resumes at Sta. 166+99. For SB, 10' shoulder width is provided at Sta. 164+11 and it resumes at Sta. 167+69.

Crash History and Potential of Exception Location(s)

3 crashes along this segment between 2011-2015. Segment is not a 5% location. Proposed scope of work will not improve the crash history of the project.

Cost of Using Policy Value	Cost of Using Proposed Exception Value
$350,000.00	$120,000.00

Impacts Other Than Cost of Using Policy Value

Would require reconstruction or widening of the existing bridge.

Proposed Mitigation to Address Exception

A 2' shoulder will be adjacent to barrier wall. Pavement marking.

Geometric Compatibility with Adjacent Sections

Compatible

Potential Effects on Other Design Elements

Minimal

Potential Impacts on Mobility or Traffic Operations

None

Summary of Justification for Exception

There is a desire to not impact the approximate 10 year old superstructure of the bridge over I-88. A 30' median and 2' outside shoulders/gutters will be provided.

Coordination Meeting Date	Prepared By	Date
08/15/2018	Peter Johnston, GRAEF	06/14/2018

PAVEMENT/RESURFACING EXCEPTIONS

☐ New Pavement ☐ Pavement Widening ☐ Resurfacing

Design Period/ Expected Service Life	Design Year	Structural Design Traffic	%PV	%SU	%MU

Design Element Policy Value	Proposed Design Element Value

Location(s) of Exception

Cost of Using Policy Value	Cost of Using Proposed Element Value

Summary of Justification

Prepared By	Date

APPROVAL/DISAPPROVAL

BDE Approval Date

08/15/2018

FHWA Approval Date (Level One)

Illinois Department of Transportation

Design Exception Request Project Identification

Key Route	Marked Route/Road Name	Contract #	State Job #
FAP Route 326	IL Route 47/Sugar Grove Parkway		P-91-015-14

Section	County(ies)	Municipality
14-00028-00-CH	Kane	Village of Sugar Grove

Local Agency	LRS Section #	Permit Applicant	Permit #
Village of Sugar Grove			

Project Limits

College Drive/Old Oaks Road (south end) to Green Road (north end)

Project Length	Current Posted Speed
2.2 miles (11,539 FT)	55 mph

Estimate of Cost	Functional Classification	Design Yr	Design Traffic ADT	Design Traffic DHV	
24,858,000	Strategic Rgnl. Artrl. (Rural)	2040	26,600	AM 2726	PM 2627

On the NHS System?	Structure Numbers	Type of Project (Construction, Reconstruction, 3R, 3P, SMART, HSIP, etc.)
☒ Yes ☐ No	045-0024, -0082, & -2001	Reconstruction

Brief Project Description

Widening of IL 47 from 2 lanes to 4 lanes. New WB Exit & EB Entrance Ramps & NB-WB Entrance Loop Ramp.

EXCEPTION DOCUMENTATION

Level of Exception ☐ Level One ☒ Level Two

Design Element for Which an Exception is Requested

Taper Distance and initial radii for Exit Ramp Terminal

Design Element Policy Value

With IL 47 design speed of 60mph and maximum super-elevation of 8%: 800' taper per BDE Fig. 37-6.A and minimum initial ramp curve radius of 587' per BDE Figures 37-6.G and 37-4.F

Proposed Design Element Value

136' taper and 250' radius for initial ramp curve

Location(s) of Exception

NB IL 47 to WB I-88 Loop Ramp (approximate IL 47 Sta. 167+25)

Crash History and Potential of Exception Location(s)

This is a new ramp so no specific history is available for this location. This is not a 5% location. Proposed scope of work will not improve the crash history of the project.

Cost of Using Policy Value	Cost of Using Proposed Exception Value
$900,000.00	$200,000.00

Impacts Other Than Cost of Using Policy Value

Additional ROW and impacts to bridge with semi-integral abutments.

Proposed Mitigation to Address Exception

Clear delineation of travel lanes and advance signing. Grade is increasing for NB traffic so sight lines should be good since bridge is not at high point. Primary concern would be for travelers not familiar with the area. Chevrons along the initial curve may be advisable.

Geometric Compatibility with Adjacent Sections

This is an isolated location.

Potential Effects on Other Design Elements

Will require clear striping and appropriate signing.

Potential Impacts on Mobility or Traffic Operations

Minimal

Summary of Justification for Exception

There is a desire to not impact the relatively new bridge superstructure, hence the taper was moved north off the bridge. There also is a desire to minimize ROW take in the northeast quadrant. Both IDOT and the Illinois Tollway were involved in the design development.

Coordination Meeting Date	Prepared By	Date
08/15/2018	Peter Johnston, GRAEF	6/21/2018

PAVEMENT/RESURFACING EXCEPTIONS

☐ New Pavement ☐ Pavement Widening ☐ Resurfacing

Design Period/ Expected Service Life	Design Year	Structural Design Traffic	%PV	%SU	%MU

Design Element Policy Value	Proposed Design Element Value

Location(s) of Exception

Cost of Using Policy Value	Cost of Using Proposed Element Value

Summary of Justification

Prepared By	Date

APPROVAL/DISAPPROVAL

BDE Approval Date

08/15/2018

FHWA Approval Date (Level One)

Illinois Department of Transportation

Design Exception Request Project Identification

Key Route	Marked Route/Road Name	Contract #	State Job #
FAP Route 326	IL Route 47/Sugar Grove Parkway		P-91-015-14

Section	County(ies)	Municipality
14-00028-00-CH	Kane	Village of Sugar Grove

Local Agency	LRS Section #	Permit Applicant	Permit #
Village of Sugar Grove			

Project Limits

College Drive/Old Oaks Road (south end) to Green Road (north end)

Project Length	Current Posted Speed
2.2 miles (11,539 FT)	55 mph

Estimate of Cost	Functional Classification	Design Yr	Design Traffic ADT	Design Traffic DHV	
24,858,000	Strategic Rgnl. Artrl. (Rural)	2040	26,600	AM 2726	PM 2627

On the NHS System?	Structure Numbers	Type of Project (Construction, Reconstruction, 3R, 3P, SMART, HSIP, etc.)
☒ Yes ☐ No	045-0082	Reconstruction

Brief Project Description

Widening of IL 47 from 2 lanes to 4 lanes. New WB Exit & EB Entrance Ramps & NB-WB Entrance Loop Ramp.

EXCEPTION DOCUMENTATION

Level of Exception ☐ Level One ☒ Level Two

Design Element for Which an Exception is Requested

Level of service

Design Element Policy Value

C per BDE Figure 46-4.C.

Proposed Design Element Value

D

Location(s) of Exception

Eastbound right-turn lane and left-turn lane at IL 47/I-88 Eastbound Ramps intersection (AM & PM)

Crash History and Potential of Exception Location(s)

15 crashes at the IL 47/I-88 EB Off-Ramp intersection between 2011-2015. Intersection is not a 5% location.

Cost of Using Policy Value	Cost of Using Proposed Exception Value
$20,000.00	$10,000.00

Impacts Other Than Cost of Using Policy Value

Increased delay for mainline IL Rte 47 traffic

Proposed Mitigation to Address Exception

None.

Geometric Compatibility with Adjacent Sections

Yes

Potential Effects on Other Design Elements

None

Potential Impacts on Mobility or Traffic Operations

None

Summary of Justification for Exception

Adequate geometrics and signal phasing to support DHVs. Delay is a function of cycle length and random arrivals from the freeway.

Coordination Meeting Date	Prepared By	Date
08/15/2018	Emma Albers, GRAEF	6/22/2018

PAVEMENT/RESURFACING EXCEPTIONS

☐ New Pavement ☐ Pavement Widening ☐ Resurfacing

Design Period/ Expected Service Life	Design Year	Structural Design Traffic	%PV	%SU	%MU

Design Element Policy Value	Proposed Design Element Value

Location(s) of Exception

Cost of Using Policy Value	Cost of Using Proposed Element Value

Summary of Justification

Prepared By	Date

APPROVAL/DISAPPROVAL

BDE Approval Date

08/15/2018

FHWA Approval Date (Level One)

Illinois Department of Transportation

Design Exception Request Project Identification

Key Route	Marked Route/Road Name	Contract #	State Job #
FAP Route 326	IL Route 47/Sugar Grove Parkway		P-91-015-14

Section	County(ies)	Municipality
14-00028-00-CH	Kane	Village of Sugar Grove

Local Agency	LRS Section #	Permit Applicant	Permit #
Village of Sugar Grove			

Project Limits

College Drive/Old Oaks Road (south end) to Green Road (north end)

Project Length	Current Posted Speed
2.2 miles (11,539 FT)	55 mph

Estimate of Cost	Functional Classification	Design Yr	Design Traffic ADT	Design Traffic DHV	
24,858,000	Strategic Rgnl. Artrl. (Rural)	2040	26,600	AM 2726	PM 2627

On the NHS System?	Structure Numbers	Type of Project (Construction, Reconstruction, 3R, 3P, SMART, HSIP, etc.)
☒ Yes ☐ No	045-0082	Reconstruction

Brief Project Description

Widening of IL 47 from 2 lanes to 4 lanes. New WB Exit & EB Entrance Ramps & NB-WB Entrance Loop Ramp.

EXCEPTION DOCUMENTATION

Level of Exception ☐ Level One ☒ Level Two

Design Element for Which an Exception is Requested

Level of service

Design Element Policy Value

C per BDE Figure 46-4.C.

Proposed Design Element Value

D

Location(s) of Exception

Southbound left-turn lane at IL 47/I-88 Eastbound Ramps intersection (AM & PM)

Crash History and Potential of Exception Location(s)

15 crashes at the IL 47/I-88 EB Off-Ramp intersection between 2011-2015. Intersection is not a 5% location.

Cost of Using Policy Value	Cost of Using Proposed Exception Value
$20,000.00	$10,000.00

Impacts Other Than Cost of Using Policy Value

Increased delay for mainline IL Rte 47 traffic

Proposed Mitigation to Address Exception

None.

Geometric Compatibility with Adjacent Sections

Yes

Potential Effects on Other Design Elements

None

Potential Impacts on Mobility or Traffic Operations

None

Summary of Justification for Exception

Adequate geometrics and signal phasing to support DHVs. Delay is a function of the cycle length.

Coordination Meeting Date	Prepared By	Date
08/15/2018	Emma Albers, GRAEF	6/22/2018

PAVEMENT/RESURFACING EXCEPTIONS

☐ New Pavement ☐ Pavement Widening ☐ Resurfacing

Design Period/ Expected Service Life	Design Year	Structural Design Traffic	%PV	%SU	%MU

Design Element Policy Value	Proposed Design Element Value

Location(s) of Exception

Cost of Using Policy Value	Cost of Using Proposed Element Value

Summary of Justification

Prepared By	Date

APPROVAL/DISAPPROVAL

BDE Approval Date

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FHWA Approval Date (Level One)

Illinois Department of Transportation

Design Exception Request Project Identification

Key Route	Marked Route/Road Name	Contract #	State Job #
FAP Route 326	IL Route 47/Sugar Grove Parkway		P-91-015-14

Section	County(ies)	Municipality
14-00028-00-CH	Kane	Village of Sugar Grove

Local Agency	LRS Section #	Permit Applicant	Permit #
Village of Sugar Grove			

Project Limits

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Project Length	Current Posted Speed
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24,858,000	Strategic Rgnl. Artrl. (Rural)	2040	26,600	AM 2726	PM 2627

On the NHS System?	Structure Numbers	Type of Project (Construction, Reconstruction, 3R, 3P, SMART, HSIP, etc.)
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Brief Project Description

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EXCEPTION DOCUMENTATION

Level of Exception ☐ Level One ☒ Level Two

Design Element for Which an Exception is Requested

Level of service

Design Element Policy Value

C per BDE Figure 46-4.C.

Proposed Design Element Value

D

Location(s) of Exception

Westbound right-turn lane and left-turn lane at IL 47/I-88 Westbound Ramps intersection (AM & PM)

Crash History and Potential of Exception Location(s)

N/A

Cost of Using Policy Value	Cost of Using Proposed Exception Value
$20,000.00	$10,000.00

Impacts Other Than Cost of Using Policy Value

Increased delay for mainline IL Rte 47 traffic

Proposed Mitigation to Address Exception

None.

Geometric Compatibility with Adjacent Sections

Yes

Potential Effects on Other Design Elements

None

Potential Impacts on Mobility or Traffic Operations

None

Summary of Justification for Exception

Adequate geometrics and signal phasing support DHVs. Delay is a function of cycle length and random arrivals from the freeway.

Coordination Meeting Date	Prepared By	Date
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PAVEMENT/RESURFACING EXCEPTIONS

☐ New Pavement ☐ Pavement Widening ☐ Resurfacing

Design Period/ Expected Service Life	Design Year	Structural Design Traffic	%PV	%SU	%MU

Design Element Policy Value	Proposed Design Element Value

Location(s) of Exception

Cost of Using Policy Value	Cost of Using Proposed Element Value

Summary of Justification

Prepared By	Date

APPROVAL/DISAPPROVAL

BDE Approval Date

08/08/2018

FHWA Approval Date (Level One)