07-31-2020 LETTING ITEM 047

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(91-3)RA-1	UNION	63	1
		ILLINOIS	CONTRACT NO. 78701	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FOR INDEX OF SHEETS, SEE SHEET NO. 3

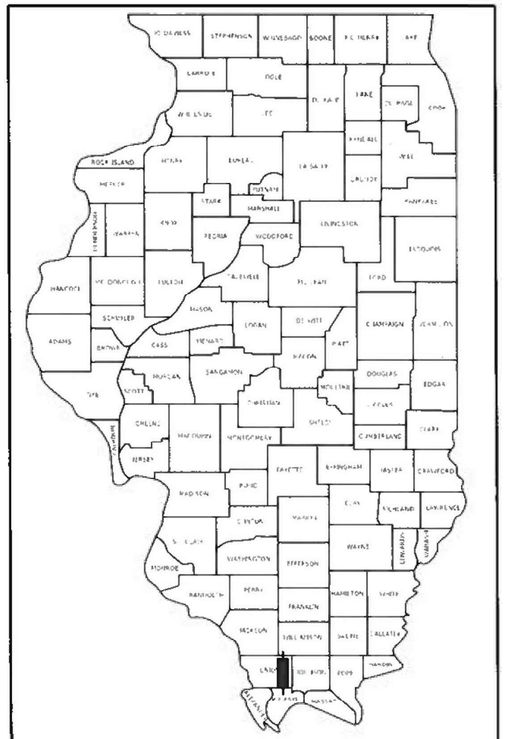
FOR SUMMARY OF QUANTITIES, SEE SHEET NO. 4

PROPOSED HIGHWAY PLANS

FAI ROUTE 57 (I-57)
SECTION (91-3)RA-1
PROJECT NHFP-P1D4(353) PARKING LOT EXPANSION
TRAIL OF TEARS REST AREA
UNION COUNTY

C-99-011-19

D-99-009-19



LOCATION OF SECTION INDICATED THUS:-

TRAFFIC DATA

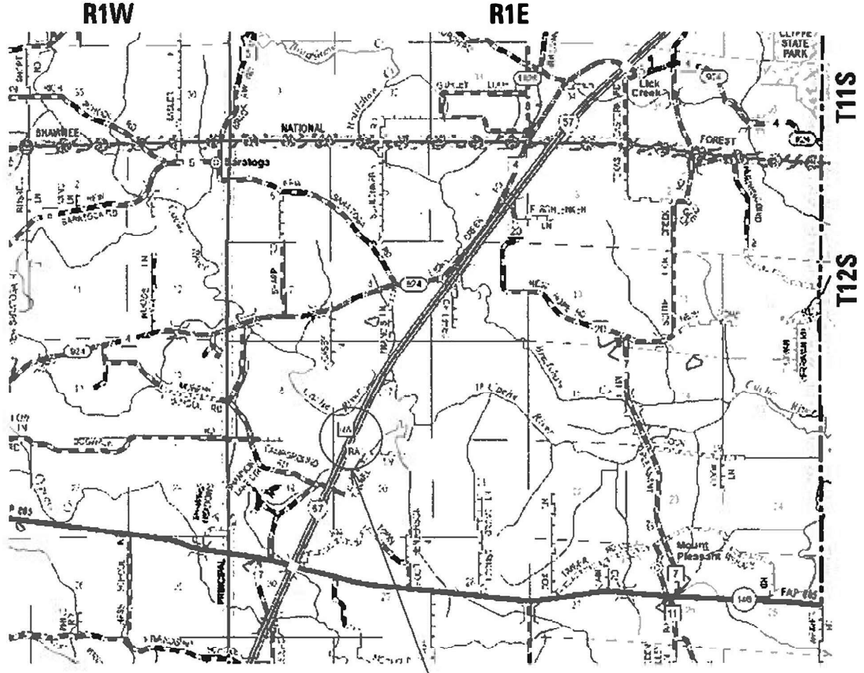
I-57 NORTH OF IL 146
ADT (2020): 13,360 WITH 55% TRUCKS

NB REST AREA RAMP
ADT (2020): 670 WITH 35% TRUCKS

SB REST AREA RAMP
ADT (2020): 770 WITH 45% TRUCKS

TOWNSHIPS

ANNA



PROPOSED REST AREA IMPROVEMENTS
TRAIL OF TEARS REST AREAS

DESIGN DESIGNATION : N/A

COORDINATE SYSTEM : N/A

POSTED SPEED : 70 MPH

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

PROJECT ENGINEER: VALERIE ROLLA
PROJECT DESIGNER: BEN DUGAS

CONTRACT NO. 78701

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUBMITTED 05-06-2020

REGION FIVE ENGINEER

June 26, 2020

ENGINEER OF DESIGN AND ENVIRONMENT

June 26, 2020

DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

13

PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

Prepared By: Charles Stein
DISTRICT STUDIES & PLANS ENGINEER

Examined By:
DISTRICT LAND ACQUISITION ENGINEER

Examined By:
DISTRICT PROGRAM DEVELOPMENT ENGINEER

Examined By:
DISTRICT OPERATIONS ENGINEER

Examined By:
DISTRICT PROJECT IMPLEMENTATION ENGINEER

Examined By:
DISTRICT CONSTRUCTION ENGINEER

Examined By:
DISTRICT MATERIALS ENGINEER

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	DRAWN -	REVISED -	
PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -	
PLOT DATE = 4/22/2020	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SIGNATURE SHEET

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(91-3)RA-1	UNION	63	2
		CONTRACT NO. 78701		
		ILLINOIS FED. AID PROJECT		

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INDEX OF SHEETS

SHEET NO	DESCRIPTION
1	COVER SHEET
2	SIGNATURE SHEET
3	INDEX OF SHEETS, HIGHWAY STANDARDS, COMMITMENTS, GENERAL NOTES
4-7	SUMMARY OF QUANTITIES
8-9	TYPICAL SECTIONS
10-14	SCHEDULES
15-16	PLAN VIEW
17-18	PROFILES
19-20	STATION OFFSETS
21	SB PAVEMENT MARKING AND TREE REMOVAL
22	SB REMOVAL PLAN
23	SB DRAINAGE PLAN
24	SB PAVEMENT PLAN
25	SB SEEDING/EROSION CONTROL PLAN
26	NB PAVEMENT MARKING AND TREE REMOVAL
27	NB REMOVAL PLAN
28	NB DRAINAGE PLAN
29	NB PAVEMENT PLAN
30	NB SEEDING/EROSION CONTROL PLAN
31-36	LIGHTING PLANS
37-49	CROSS SECTIONS - SB
50-61	CROSS SECTIONS - NB
62	SIGN DETAILS
63	DETAILS: DRAINAGE, SEEDING & MULCHING

HIGHWAY STANDARDS

000001-07 STANDARD SYMBOLS ABBREVIATIONS & PATTERNS
001001-02 AREAS OF REINFORCEMENT BARS
001006-00 DECIMAL OF INCH & FOOT
280001-07 TEMPORARY EROSION CONTROL SYSTEMS
420001-09 PAVEMENT JOINTS
420106-06 36 FT JOINTED PCC PAVEMENT
601101-02 CONCRETE HEADWALL FOR PIPE UNDERDRAINS
602301-04 INLET - TYPE A
604051-04 FRAME & GRATE TYPE 11
606001-07 CONCRETE CURB TYPE B & COMBO CONCRETE CURB & GUTTER
606201-04 TYPE B GUTTER - INLET OUTLET & ENTRANCE
701901-08 TRAFFIC CONTROL DEVICES
780001-05 TYPICAL PAVEMENT MARKINGS
821101-02 LUMINAIRE WIRING IN POLE
835001-01 LIGHT TOWER
837001-05 LIGHT TOWER FOUNDATION

GENERAL NOTES

FACTORS USED FOR ESTIMATING PLAN QUANTITIES ARE AS FOLLOWS AND SHALL NOT BE USED FOR THE BASIS OF FINAL QUANTITIES:

ALL AGGREGATE	2.05 TONS/CU. YD.
RIPRAP	1.50 TONS/CU. YD.
EARTH	110 LBS/CU. FT.

TREES WHICH DO NOT INTERFERE WITH CONSTRUCTION SHALL NOT BE DISTURBED.

THE QUANTITY SHOWN IN THE PLANS FOR PIPE CULVERT REMOVAL IS AN ESTIMATE. THE ACTUAL QUANTITY REMOVED SHALL BE DETERMINED BY THE ENGINEER IN ORDER FOR THE PROPOSED HEADWALL TO BE PLACED ON THE BACKSLOPE TO ALLOW THE EXISTING PIPE TO ADAQUATELY DRAIN INTO THE PROPOSED DITCH.

AT ALL LOCATIONS WHERE THE PROPOSED CONCRETE PAVEMENT JOINS THE EXISTING CONCRETE PAVEMENT, A FULL DEPTH SAWED JOINT SHALL BE CONSTRUCTED. THE COST OF THIS JOINT WILL BE INCLUDED IN THE COST OF THE PCC PAVEMENT 10" (JOINTED).

FULL DEPTH SAW CUTS ALONG THE EXISTING PAVEMENT NEEDED TO REMOVE THE EXISTING COMBINATION CONCRETE CURB AND GUTTER SHALL BE INCLUDED IN THE COST OF THE COMBINATION CURB AND GUTTER REMOVAL.

THE COST OF ALL TIE BARS (NOT INCLUDING THOSE CONNECTING PROPOSED PAVEMENT TO EXISTING), DOWEL BARS, AND JOINT SEALERS SHALL BE INCLUDED IN THE COST OF THE PCC PAVMENT 10" (JOINTED) OR COMBINATION CONCRETE CURB & GUTTER TY B-9.18. TIE BARS ALONG THE EXISTING PAVEMENT SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE PER EACH FOR TIE BARS 3/4"

THE REMOVAL OF EXISTING ENTRANCE PIPE CULVERTS ENCASED IN CONCRETE WILL BE CONSIDERED INCLUDED IN THE COST OF THE PAY ITEM PIPE CULVERT REMOVAL ONLY IF 2 FT OR LESS OF THE ENDS OF THE CULVERT ARE ENCASED. IF MORE THAN 2 FT OF THE ENDS OF THE CULVERT ARE ENCASED IN CONCRETE, THE REMOVAL WILL BE PAID

ALL PAVEMENT MARKINGS (EITHER TEMPORARY OR PERMANENT) SHALL BE COMPLETED PRIOR TO OPENING THE PARKING LOT TO TRAFFIC.

THE PROPOSED LIGHT POLE FOUNDATION SHALL BE FLUSH WITH EXISTING SURFACE.

COMMITMENTS

NONE

SUMMARY OF QUANTITIES

ROUTE:	FAI 57 (I-57)
COUNTY:	UNION
FUNDING:	80% FED/20% STATE
LOCATION:	RURAL

CODE NUMBER	ITEM DESCRIPTION	UNIT	TOTAL QUANTITY	ROADWAY 0044
20100500	TREE REMOVAL, ACRES	ACRE	2.1	2.1
20200100	EARTH EXCAVATION	CU YD	818	818
20400100	BORROW EXCAVATION	CU YD	18511	18511
25000200	SEEDING, CLASS 2	ACRE	1.1	1.1
25000350	SEEDING, CLASS 7	ACRE	1.1	1.1
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	99	99
25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	99	99
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	99	99
25000700	AGRICULTURAL GROUND LIMESTONE	TON	2.2	2.2
25100630	EROSION CONTROL BLANKET	SQ YD	5325	5325
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	110	110
28000305	TEMPORARY DITCH CHECKS	FOOT	196	196
28000400	PERIMETER EROSION BARRIER	FOOT	940	940

SUMMARY OF QUANTITIES - CONT

ROUTE:	FAI 57 (I-57)
COUNTY:	UNION
FUNDING:	80% FED/20% STATE
LOCATION:	RURAL

CODE NUMBER	ITEM DESCRIPTION	UNIT	TOTAL QUANTITY	ROADWAY 0044
28100105	STONE RIPRAP, CLASS A3	SQ YD	89	89
31100500	SUBBASE GRANULAR MATERIAL, TYPE A 6"	SQ YD	10520	10520
31200100	STABILIZED SUBBASE 4"	SQ YD	10389	10389
42000501	PORTLAND CEMENT CONCRETE PAVEMENT 10" (JOINTED)	SQ YD	9634	9634
42001300	PROTECTIVE COAT	SQ YD	10232	10232
44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	1433	1433
44004250	PAVED SHOULDER REMOVAL	SQ YD	92	92
44213204	TIE BARS 3/4"	EACH	365	365
50104400	CONCRETE HEADWALL REMOVAL	EACH	1	1
50105220	PIPE CULVERT REMOVAL	FOOT	40	40
60100060	CONCRETE HEADWALLS FOR PIPE DRAINS	EACH	1	1
60236800	INLETS, TYPE A, TYPE 11 FRAME AND GRATE	EACH	1	1
60600095	CLASS SI CONCRETE (OUTLET)	CU YD	9.6	9.6

SUMMARY OF QUANTITIES - CONT

ROUTE:	FAI 57 (I-57)
COUNTY:	UNION
FUNDING:	80% FED/20% STATE
LOCATION:	RURAL

	CODE NUMBER	ITEM DESCRIPTION	UNIT	TOTAL QUANTITY	ROADWAY 0044
	60606800	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-9.18	FOOT	2133	2133
*	66900200	NON-SPECIAL WASTE DISPOSAL	CU YD	82	82
*	66900530	SOIL DISPOSAL ANALYSIS	EACH	1	1
*	66901001	REGULATED SUBSTANCES PRE-CONSTRUCTION PLAN	LSUM	1	1
*	66901003	REGULATED SUBSTANCES FINAL CONSTRUCTION REPORT	LSUM	1	1
*	66901006	REGULATED SUBSTANCES MONITORING	CAL DA	2	2
	67100100	MOBILIZATION	L SUM	1	1
	70107025	CHANGEABLE MESSAGE SIGN	CAL DA	28	28
*	78009000	MODIFIED URETHANE PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	12.4	12.4
*	78009004	MODIFIED URETHANE PAVEMENT MARKING - LINE 4"	FOOT	4107	4107
*	81028750	UNDERGROUND CONDUIT, COILABLE NONMETALLIC CONDUIT, 2" DIA.	FOOT	140	140
*	81603010	UNIT DUCT, 600V, 2-1C NO.10, 1/C NO.10 GROUND, (XLP-TYPE USE), 3/4" DIA. POLYETHYLEN	FOOT	980	980
*	82110014	LUMINAIRE, LED, HIGHMAST, OUTPUT DESIGNATION G	EACH	24	24

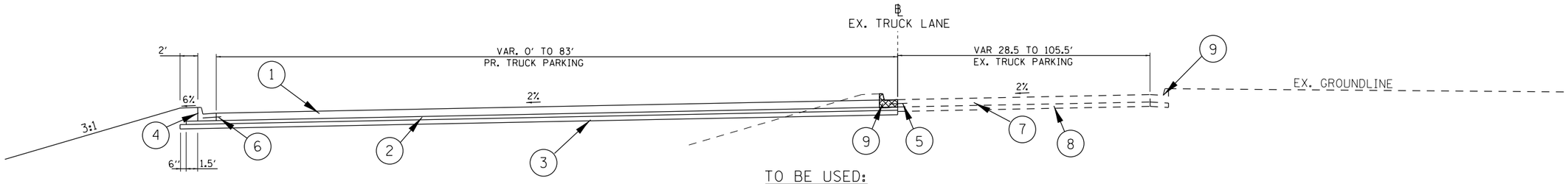
* SPECIALTY ITEM

SUMMARY OF QUANTITIES - CONT

ROUTE:	FAI 57 (I-57)
COUNTY:	UNION
FUNDING:	80% FED/20% STATE
LOCATION:	RURAL

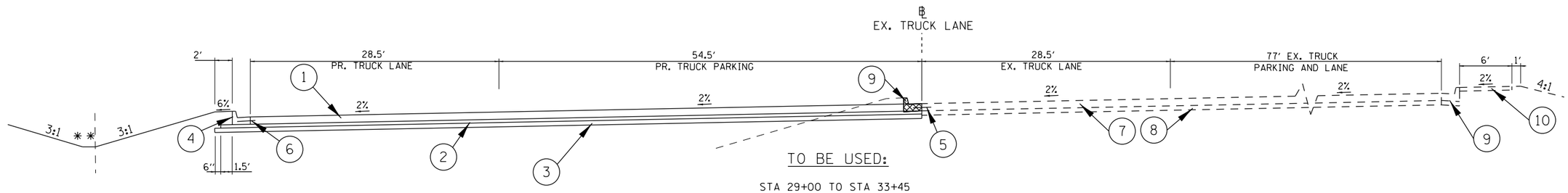
	CODE NUMBER	ITEM DESCRIPTION	UNIT	TOTAL QUANTITY	ROADWAY 0044
*	83502400	LIGHT TOWER, 100 FT. MOUNTING HEIGHT, LUMINAIRE MT. - 6	EACH	4	4
*	83700300	LIGHT TOWER FOUNDATION, 48" DIAMETER	FOOT	92	92
*	89502300	REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	1410	1410
	X0327980	PAVEMENT MARKING REMOVAL - WATER BLASTING	SQ FT	109.9	109.9
	X1400273	REMOVAL OF EXISTING TOWER LUMINAIRE, NO SALVAGE	EACH	24	24
	X6050700	REMOVE INLET BOX	EACH	1	1
	X7010216	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	L SUM	1	1
	X8420502	REMOVAL OF LIGHT TOWER, NO SALVAGE	EACH	4	4
	X8420510	REMOVAL OF TOWER FOUNDATION	EACH	4	4

SOUTHBOUND REST AREA TRUCK TYPICAL SECTIONS



TO BE USED:

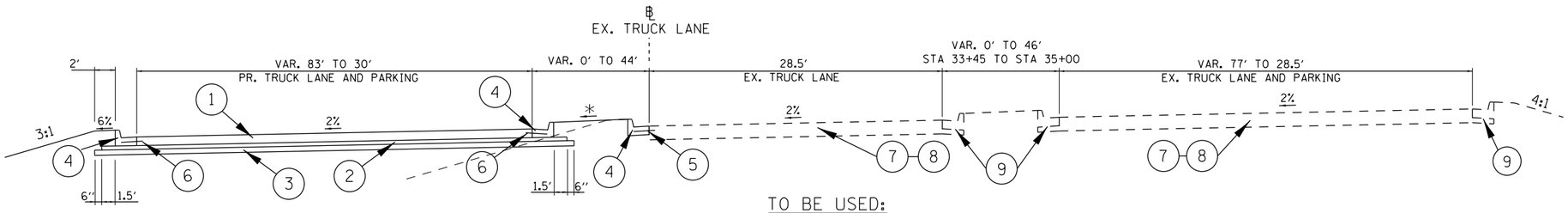
STA 27+60 TO STA 29+00



TO BE USED:

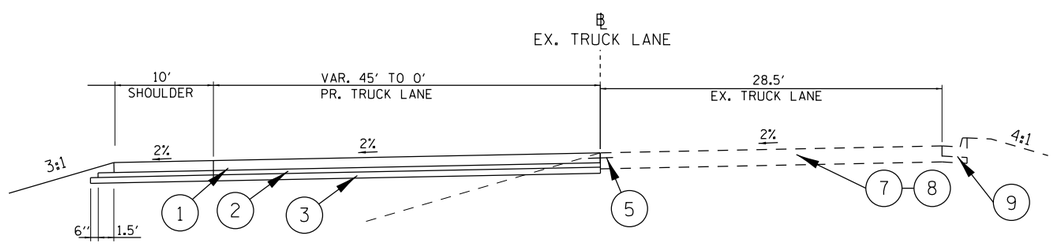
STA 29+00 TO STA 33+45

** STA 30+83 TO STA 33+42



TO BE USED:

STA 33+45 TO STA 35+60



TO BE USED:

STA 35+60 TO STA 36+72

LEGEND

1. PROP. PORTLAND CEMENT CONCRETE PAVEMENT 10" (JOINTED)
2. PROP. STABILIZED SUBBASE, 4"
3. PROP. SUBBASE GRANULAR MATERIAL, TY. A 6"
4. PROP. COMB. CONCRETE CURB & GUTTER, TY. B-9.18
5. PROP. TIE BARS 3/4"
6. PROP. #6 TIE BARS (INCIDENTAL)
7. EX. CONCRETE PAVEMENT 10"
8. EX. SUBBASE 6"
9. EX. COMB. CONCRETE CURB & GUTTER, TY. B-9.18
10. EX. PORTLAND CEMENT CONCRETE SIDEWALK 5"

COMB. CONCRETE CURB & GUTTER REMOVAL

* SEE CROSS SECTIONS FOR CROSS SLOPE

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOUTHBOUND REST AREA
TYPICAL SECTIONS

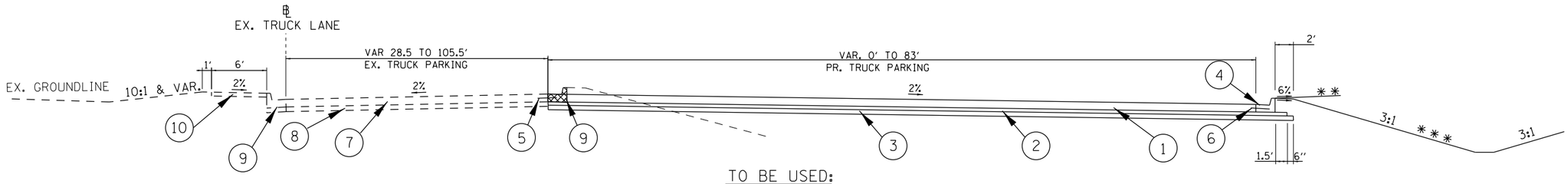
SCALE: | SHEET OF SHEETS | STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(91-3)RA-1	UNION	63	8

CONTRACT NO. 78701

ILLINOIS | FED. AID PROJECT

NORTHBOUND REST AREA TRUCK TYPICAL SECTIONS



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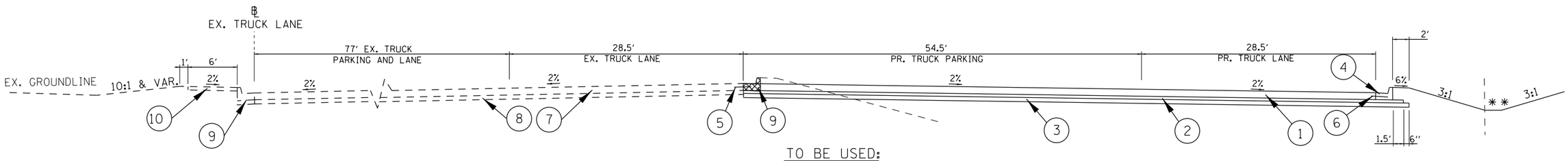
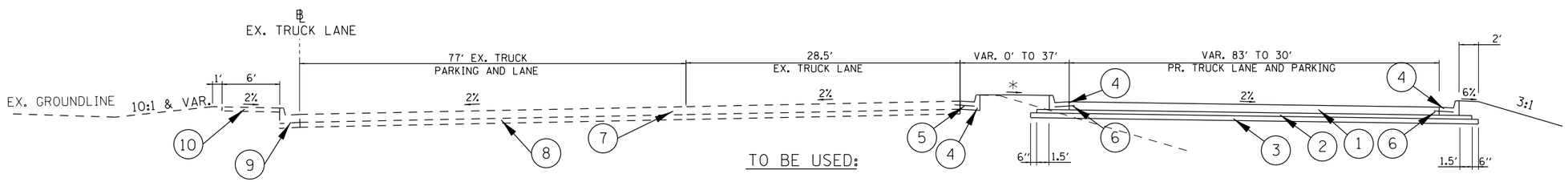
** STA 21+35 TO STA 22+03
*** STA 22+03 TO STA 22+42



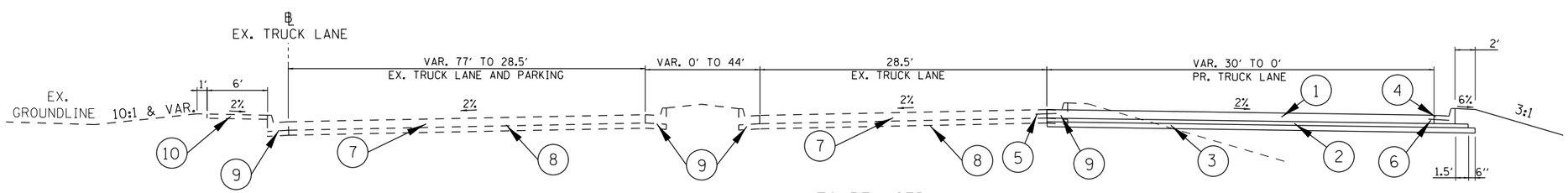
TO BE USED:

STA 22+42 TO STA 24+90
** STA 22+42 TO STA 23+56



TO BE USED:

STA 24+90 TO STA 26+20



TO BE USED:

STA 26+20 TO STA 27+00

LEGEND

1. PROP. PORTLAND CEMENT CONCRETE PAVEMENT 10'' (JOINTED)
2. PROP. STABILIZED SUBBASE, 4''
3. PROP. SUBBASE GRANULAR MATERIAL, TY. A 6''
4. PROP. COMB. CONCRETE CURB & GUTTER, TY. B-9.18
5. PROP. TIE BARS 3/4''
6. PROP. #6 TIE BARS (INCIDENTAL)
7. EX. CONCRETE PAVEMENT 10''
8. EX. SUBBASE 6''
9. EX. COMB. CONCRETE CURB & GUTTER, TY. B-9.18
10. EX. PORTLAND CEMENT CONCRETE SIDEWALK 5''

COMB. CONCRETE CURB & GUTTER REMOVAL

* SEE CROSS SECTIONS FOR CROSS SLOPE

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PLOT DATE = 4/22/2020	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

NORTHBOUND REST AREA
TYPICAL SECTIONS

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(91-3)RA-1	UNION	63	9

CONTRACT NO. 78701

ILLINOIS | FED. AID PROJECT

EARTHWORK SCHEDULE

I-57 TRAIL OF TEARS REST AREA STA TO STA	EARTH EXCAVATION	AVERAGE SHRINKAGE FACTOR	EARTH EXCAVATION (ADJUSTED)	EMBANKMENT	EARTHWORK BALANCE WASTE (+) SHORTAGE (-)	BORROW PIT SHRINKAGE FACTOR	BORROW EXCAVATION
	CU YD	%	CU YD	CU YD	CU YD	%	CU YD
NORTHBOUND							
STA 21+35 TO STA 21+50	12.0	30.6	8.0	0.0	8.0	25%	-8.0
STA 21+50 TO STA 22+00	187.0	30.6	130.0	0.0	130.0	25%	-130.0
STA 22+00 TO STA 22+50	228.0	30.6	158.0	460.0	-302.0	25%	403.0
STA 22+50 TO STA 23+00	106.0	30.6	74.0	1139.0	-1,065.0	25%	1,420.0
STA 23+00 TO STA 23+50	58.0	30.6	40.0	1251.0	-1,211.0	25%	1,615.0
STA 23+50 TO STA 24+00	52.0	30.6	36.0	826.0	-790.0	25%	1,053.0
STA 24+00 TO STA 24+50	51.0	30.6	35.0	444.0	-409.0	25%	545.0
STA 24+50 TO STA 25+00	38.0	30.6	26.0	493.0	-467.0	25%	623.0
STA 25+00 TO STA 25+50	12.0	30.6	8.0	494.0	-486.0	25%	648.0
STA 25+50 TO STA 26+00	9.0	30.6	6.0	211.0	-205.0	25%	273.0
STA 26+00 TO STA 26+50	27.0	30.6	19.0	28.0	-9.0	25%	12.0
STA 26+50 TO STA 27+00	24.0	30.6	17.0	8.0	9.0	25%	-9.0
NORTHBOUND TOTAL			557.0				6,445.0

EARTHWORK SCHEDULE

I-57 TRAIL OF TEARS REST AREA STA TO STA	EARTH EXCAVATION	NON-SPECIAL WASTE DISPOSAL	AVERAGE SHRINKAGE FACTOR	EARTH EXCAVATION (ADJUSTED)	EMBANKMENT	EARTHWORK BALANCE WASTE (+) SHORTAGE (-)	BORROW PIT SHRINKAGE FACTOR	BORROW EXCAVATION
	CU YD	CU YD	%	CU YD	CU YD	CU YD	%	CU YD
SOUTHBOUND								
STA 27+60 TO STA 28+00	10.0		44.1	6.0	0.0	6.0	25%	-6.0
STA 28+00 TO STA 28+50	47.0		44.1	26.0	54.0	-28.0	25%	37.0
STA 28+50 TO STA 29+00	54.0		44.1	30.0	385.0	-355.0	25%	473.0
STA 29+00 TO STA 29+50		34.0	44.1	19.0	683.0	-664.0	25%	885.0
STA 29+50 TO STA 30+00		27.0	44.1	15.0	711.0	-696.0	25%	928.0
STA 30+00 TO STA 30+50		21.0	44.1	12.0	696.0	-684.0	25%	912.0
STA 30+50 TO STA 31+00	25.0		44.1	14.0	690.0	-676.0	25%	901.0
STA 31+00 TO STA 31+50	27.0		44.1	15.0	762.0	-747.0	25%	996.0
STA 31+50 TO STA 32+00	19.0		44.1	11.0	869.0	-858.0	25%	1,144.0
STA 32+00 TO STA 32+50	25.0		44.1	14.0	859.0	-845.0	25%	1,127.0
STA 32+50 TO STA 33+00	43.0		44.1	24.0	766.0	-742.0	25%	989.0
STA 33+00 TO STA 33+50	25.0		44.1	14.0	722.0	-708.0	25%	944.0
STA 33+50 TO STA 34+00	1.0		44.1	1.0	652.0	-651.0	25%	868.0
STA 34+00 TO STA 34+50	0.0		44.1	0.0	493.0	-493.0	25%	657.0
STA 34+50 TO STA 35+00	4.0		44.1	2.0	361.0	-359.0	25%	479.0
STA 35+00 TO STA 35+50	11.0		44.1	6.0	324.0	-318.0	25%	424.0
STA 35+50 TO STA 36+00	34.0		44.1	19.0	217.0	-198.0	25%	264.0
STA 36+00 TO STA 36+50	44.0		44.1	25.0	59.0	-34.0	25%	45.0
STA 36+50 TO STA 36+72	14.0		44.1	8.0	1.0	7.0	25%	-7.0
SOUTHBOUND TOTAL		82.0		261.0				12,066.0
PROJECT TOTAL		82.0		818.0				18,511.0

PCC PAVEMENT

STATION TO STATION	LENGTH	REMARKS	PAVED SHOULDER REMOVAL	PCC PAVEMENT 10" (JOINTED)	TIE BARS, 3/4"	PROTECTIVE COAT **	STABILIZED SUBBASE, 4"	SUBBASE GRAN. MAT. TYPE A, 6"
	FEET		SQ. YD.	SQ. YD.	EACH	SQ. YD.	SQ. YD.	SQ. YD.
NORTHBOUND								
STA 21+35 TO STA 22+42	107	Variable (0') to Full Width (83')		460	35	460	532	567
STA 22+42 TO STA 24+90	248	Truck Parking/Lane (83')		2288	83	2288	2387	2400
STA 24+90 TO STA 25+50	60	Full Width (83') to Var. Lane Width @ Island		434		434	482	488
STA 25+50 TO STA 26+19	69	Var. Truck Lane Around Island		373		373	428	436
STA 26+19 TO STA 27+00	81	Variable 35' to 0' @ Tie-in		158	27	158	190	195
NORTHBOUND TOTALS				3713		3713	4019	4087
SOUTHBOUND								
STA 27+60 TO STA 27+97	37	Replace existing C&G					15	17
STA 27+97 TO STA 29+00	103	Variable (0') to Full Width (83')		462	35	462	503	509
STA 29+00 TO STA 33+45	445	Truck Parking/Lane (83')		4104	148	4104	4281	4306
STA 33+45 TO STA 34+07	62	Full Width (83') to Var. Lane Width @ Island		387		387	436	443
STA 34+07 TO STA 35+60	153	Truck Lane Around Island		595		595	717	734
STA 35+20 TO STA 36+72	172	Ex. 10' Paved Shoulder	92					
STA 35+60 TO STA 36+72	112	Variable 40' to 0' @ Tie-in		249	37	249	249	249
STA 35+60 TO STA 36+72	112	10' Shoulder		124		124	169	175
SOUTHBOUND TOTALS				5921		5921	6370	6432
TOTALS			92	9634	365	9634	10389	10520

** NOTE: PROTECTIVE COAT TOTAL FOR PCC PAVEMENT QUANTITY ONLY

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PAVEMENT SCHEDULE

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(91-3)RA-1	UNION	63	12
		CONTRACT NO. 78701		
	ILLINOIS	FED. AID PROJECT		

COMB. CONCRETE CURB & GUTTER AND OUTLETS

STATION TO STATION	COMB. C&G REMOVAL	COMB. CONC. C&G TY B-9.18	REMOVE INLET BOX	INLET TYPE A, TYPE 11 FRAME & GUTTER	CL. SI CONC. (OUTLET)*	CL. SI CONC. (OUTLET)**	PROTECTIVE COAT	STONE RIP RAP CLASS A3
	FOOT	FOOT	EACH	EACH	CU. YD.	CU. YD.	SQ. YD.	SQ. YD.
NORTHBOUND								
STA 21+35 TO STA 22+42	107	137					39	
STA 22+42 TO STA 24+85	243	243					68	
STA 22+50					0.8			11.1
STA 24+00					0.8			11.1
STA 24+85 TO STA 26+20	135	135					38	
STA 25+25					0.8			11.1
STA 26+20 TO STA 27+00	80	80					23	
NB ISLAND								
STA 25+00 TO STA 26+20		256					72	
NORTHBOUND TOTALS	565	851			2.4		240	33.3
SOUTHBOUND								
STA 27+60 TO STA 27+97	37	37	1	1			11	
STA 27+97 TO STA 29+00	103	133					37	
STA 29+00 TO STA 33+45	445	445					124	
STA 29+10	12				0.8			11.1
STA 30+25	12				0.8			11.1
STA 31+75					0.8			11.1
STA 32+00	12							
STA 33+25					0.8			11.1
STA 33+45 TO STA 35+60	175	215					60	
STA 33+45	12							
STA 35+20	60							
STA 35+60						4.0		11.1
SB ISLAND								
STA 33+45 TO STA 35+60		452					126	
SOUTHBOUND TOTALS	868	1282			3.2	4.0	358.0	55.5
TOTALS	1433	2133	1	1	9.6		598	89

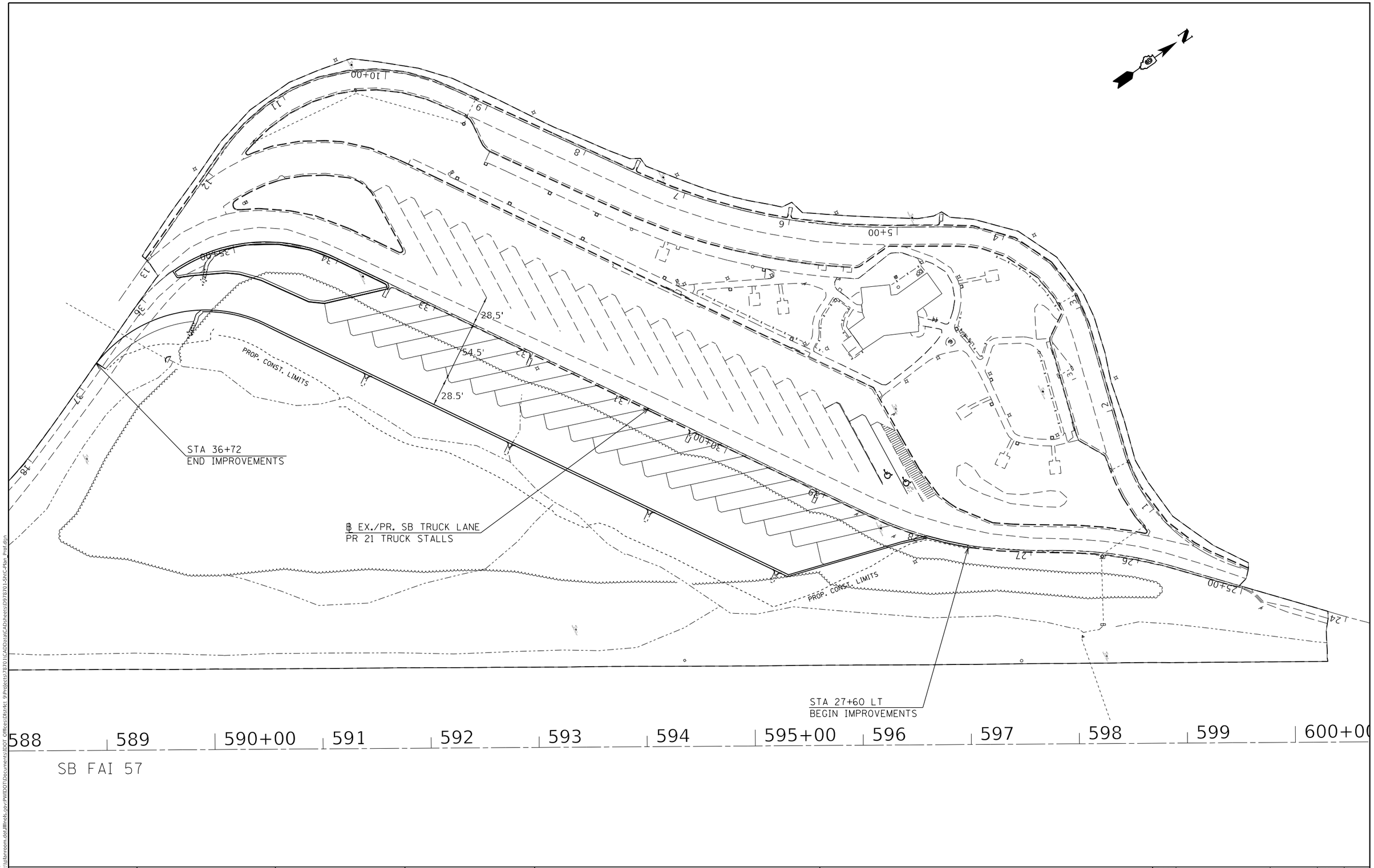
* OUTLETS ALONG COMB. CONC. CURB & GUTTER (SEE DETAILS)
** OUTLET AT END OF COMB. CONC. CURB & GUTTER
NOTE: PROTECTIVE COAT TOTAL FOR COMB. CONC. CURB & GUTTER ONLY

PAVEMENT MARKING

STATION TO STATION				REMARKS	PAVEMENT MARKING REMOVAL - WATER BLASTING	MODIFIED URETHANE PAVEMENT MARKING	
						LINE - 4"	LETTERS & SYMBOLS
					SQ FT	FEET	SQ FT
NORTHBOUND							
STA 21+00	TO	STA 22+50	LT	STRIPING FOR 2 DISABLED TRUCK STALLS	41.3	115	6.2
STA 21+00	TO	STA 25+40	RT	STRIPING FOR 11 TRUCK STALLS		1550	
SOUTHBOUND							
STA 28+00	TO	STA 29+00	RT	STRIPING FOR 2 DISABLED TRUCK STALLS	68.6	197	6.2
STA 29+00	TO	STA 34+00	LT	STRIPING FOR 21 TRUCK STALLS		2245	
TOTALS					109.9	4107	12.4

SEEDING AND EROSION CONTROL

STATION TO STATION	LENGTH (INFO. ONLY)	SEEDING, CLASS 2	SEEDING, CLASS 7	NITROGEN FERTILIZER NUTRIENT	PHOSPHORUS FERTILIZER NUTRIENT	POTASSIUM FERTILIZER NUTRIENT	AGRICULTURAL GROUND LIMESTONE	EROSION CONTROL BLANKET	PERIMETER EROSION BARRIER	TEMPORARY DITCH CHECK	TEMPORARY EROSION CONTROL SEEDING
	FOOT	ACRE	ACRE	POUND	POUND	POUND	TON	SQ. YD.	FEET	FEET	POUND
NORTHBOUND											
STA 21+35 TO STA 22+00	65	0.06	0.06	5.4	5.4	5.4	0.12	290			6
STA 22+00 TO STA 26+00	400	0.35	0.35	31.5	31.5	31.5	0.70	1694	380	84	35
STA 26+00 TO STA 27+00	100	0.02	0.02	1.8	1.8	1.8	0.04	97			2
NORTHBOUND MEDIAN ISLAND		0.07	0.07	6.3	6.3	6.3	0.14	339			7
NORTHBOUND TOTALS		0.50	0.50	45.0	45.0	45.0	1.0	2420	380	84	50
SOUTHBOUND											
STA 27+60 TO STA 34+25	665	0.41	0.41	36.9	36.9	36.9	0.82	1985	560	98	41
STA 34+25 TO STA 36+72	247	0.06	0.06	5.4	5.4	5.4	0.12	290		14	6
SOUTHBOUND MEDIAN ISLAND		0.13	0.13	11.7	11.7	11.7	0.26	630			13
SOUTHBOUND TOTALS		0.60	0.60	54.0	54.0	54.0	1.20	2905	560	112	60
TOTALS		1.1	1.1	99	99	99	2.2	5325	940	196	110



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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOUTHBOUND REST AREA
PLAN VIEW

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(91-3)RA-1	UNION	63	15
		CONTRACT NO. 78701		
		ILLINOIS	FED. AID PROJECT	

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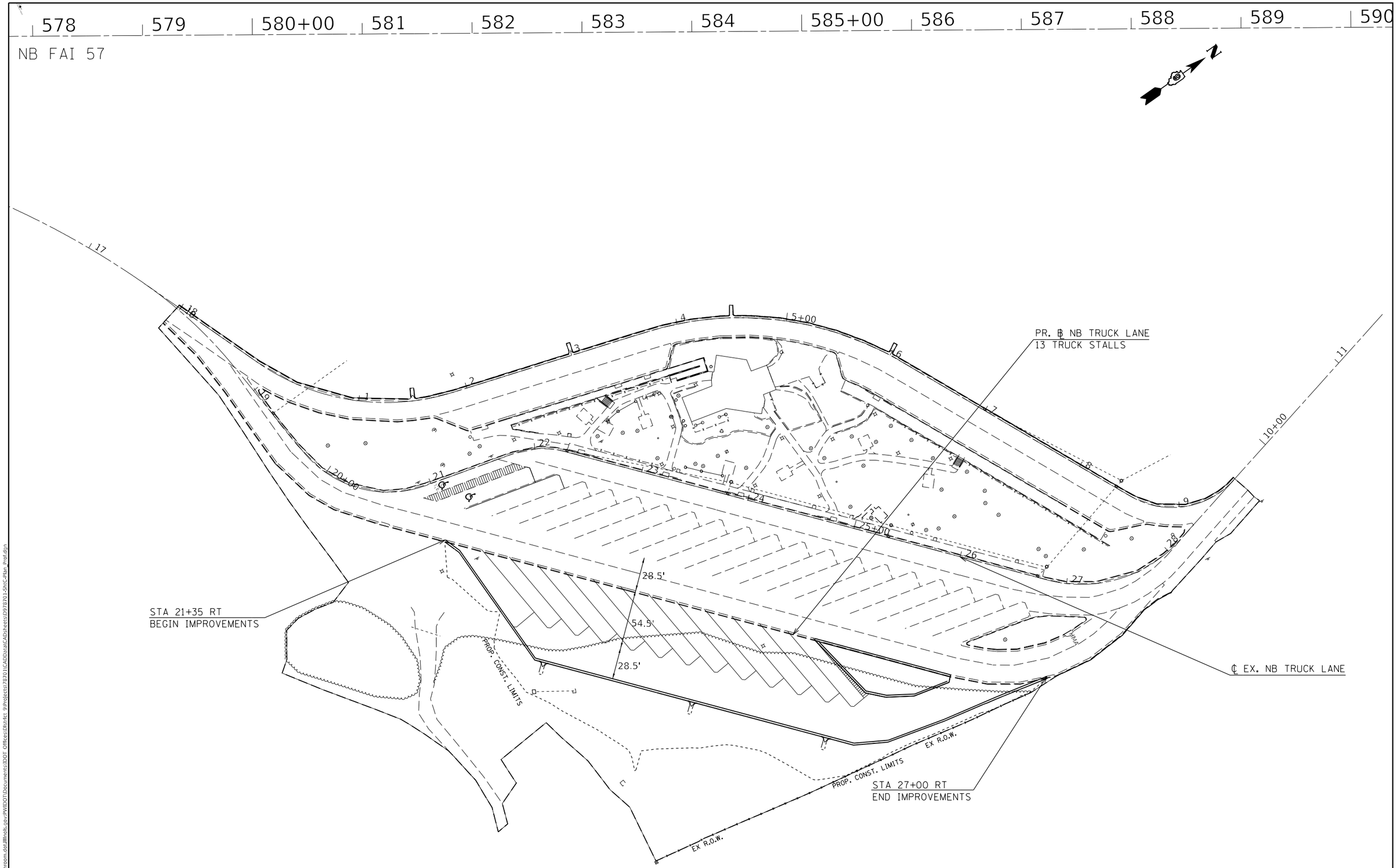

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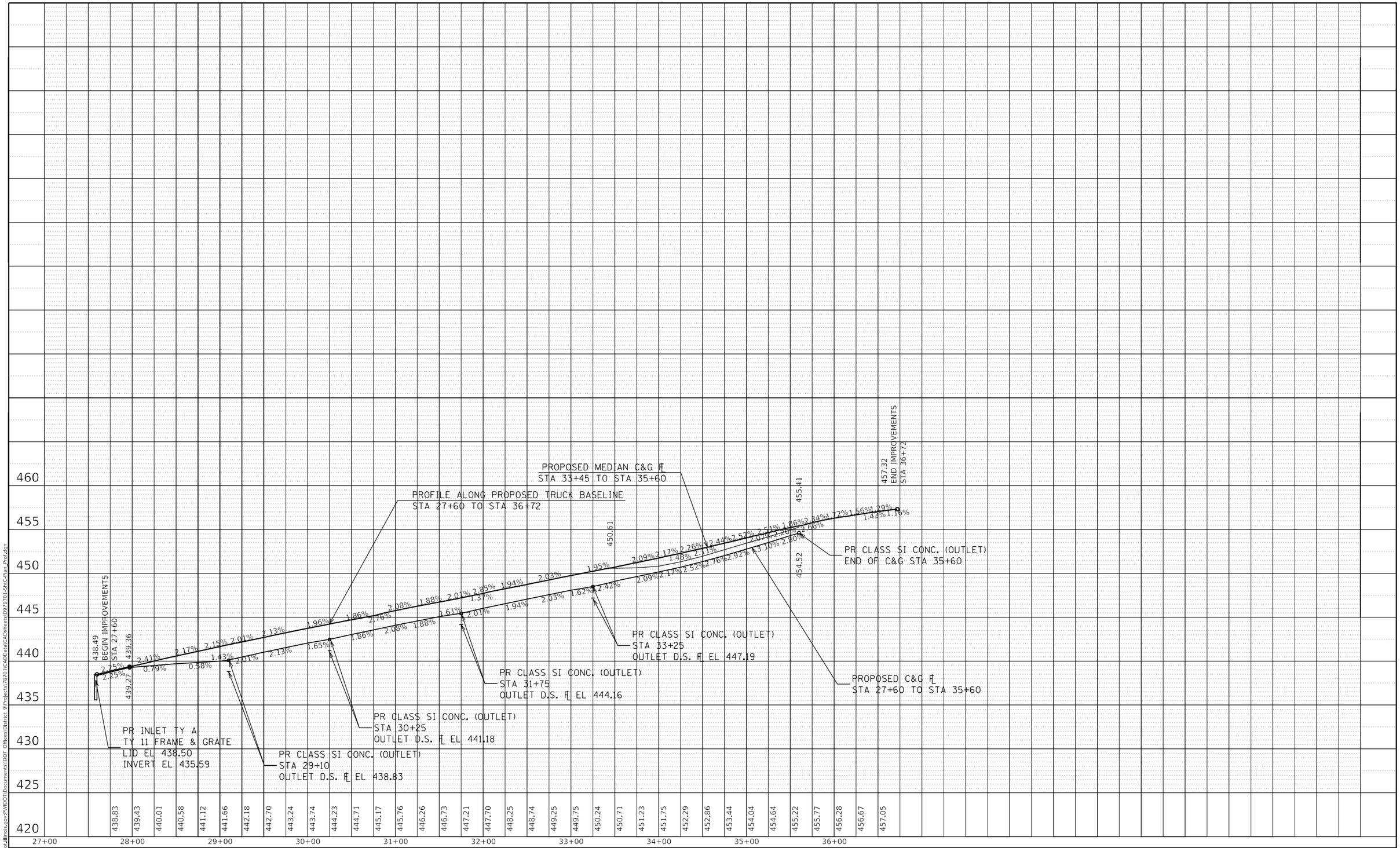
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

NORTHBOUND REST AREA
PLAN VIEW

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(91-3)RA-1	UNION	63	16
		CONTRACT NO. 78701		
	ILLINOIS	FED. AID PROJECT		



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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

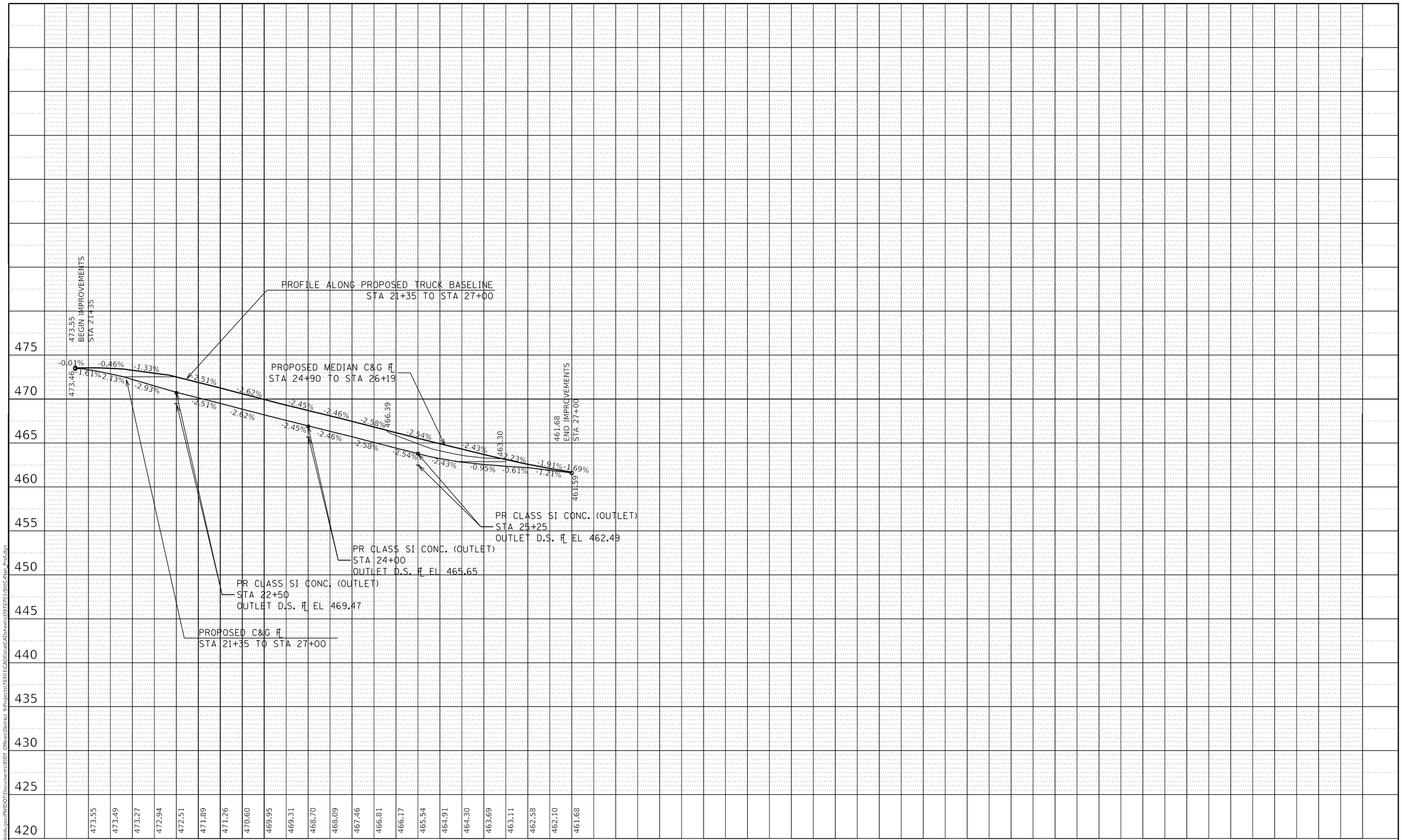
SOUTHBOUND REST AREA
PROFILE

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(91-3)RA-1	UNION	63	17

CONTRACT NO. 78701

ILLINOIS FED. AID PROJECT



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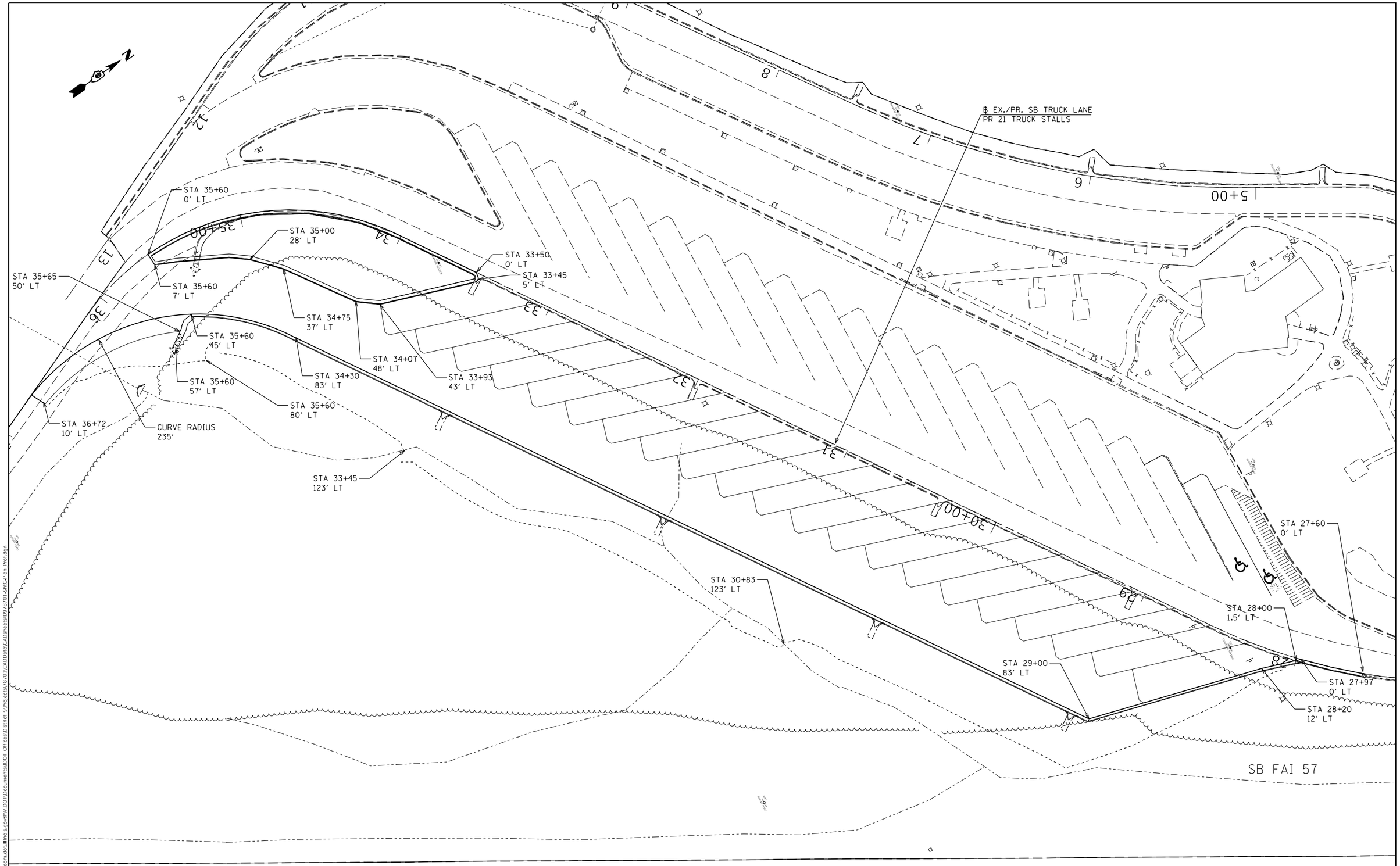
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

NORTHBOUND REST AREA
PROFILE

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(91-3)RA-1	UNION	63	18
		CONTRACT NO. 78701		
	ILLINOIS	FED. AID PROJECT		



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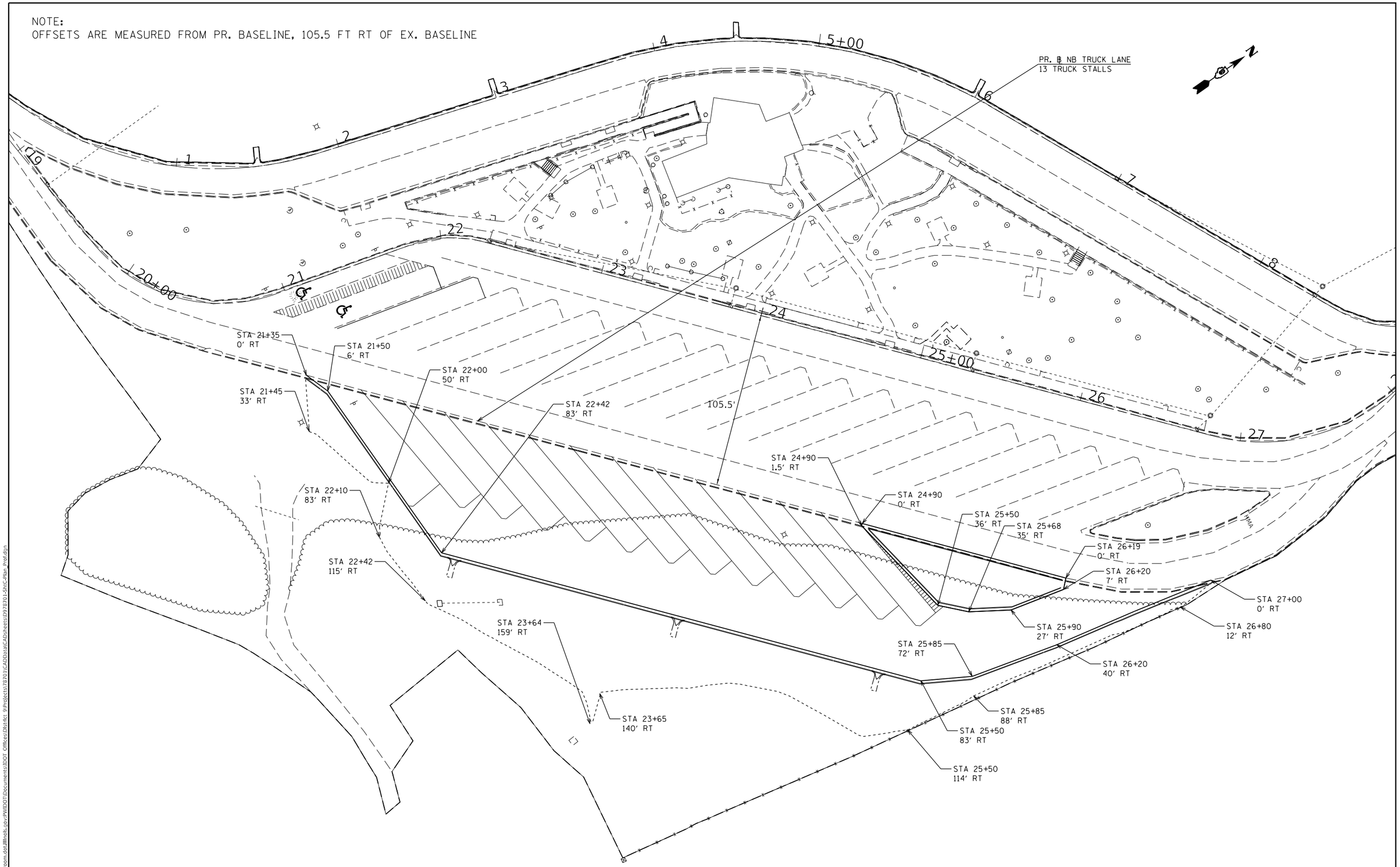
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOUTHBOUND
STATION – OFFSETS

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(91-3)RA-1	UNION	63	19
		CONTRACT NO. 78701		
		ILLINOIS	FED. AID PROJECT	

NOTE:
OFFSETS ARE MEASURED FROM PR. BASELINE, 105.5 FT RT OF EX. BASELINE



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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

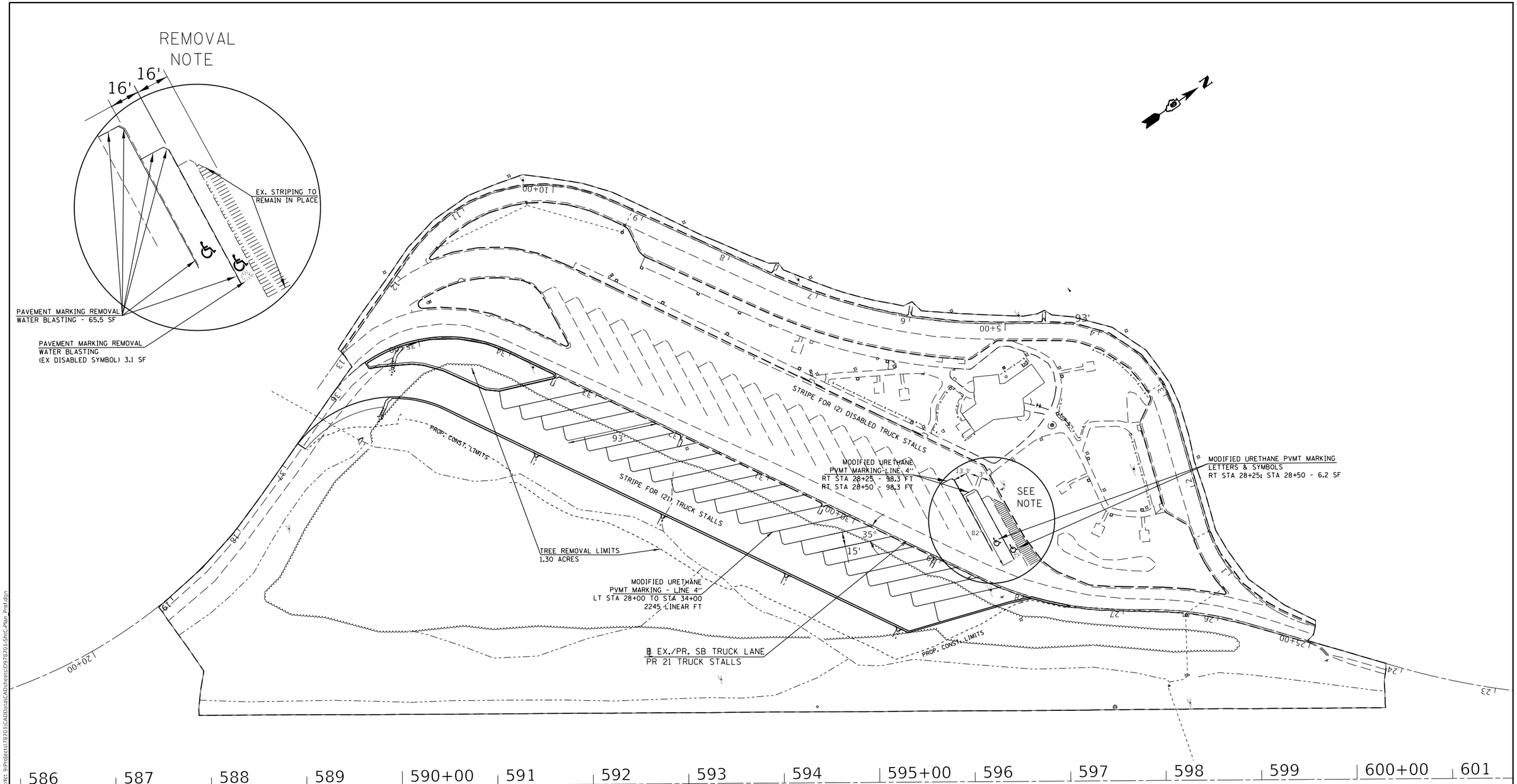
NORTHBOUND
STATION – OFFSETS

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(91-3)RA-1	UNION	63	20

CONTRACT NO. 78701

ILLINOIS | FED. AID PROJECT



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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOUTHBOUND PAVEMENT MARKING & TREE REMOVAL PLAN

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(91-3)RA-1	UNION	63	21

CONTRACT NO. 78701

ILLINOIS | FED. AID PROJECT

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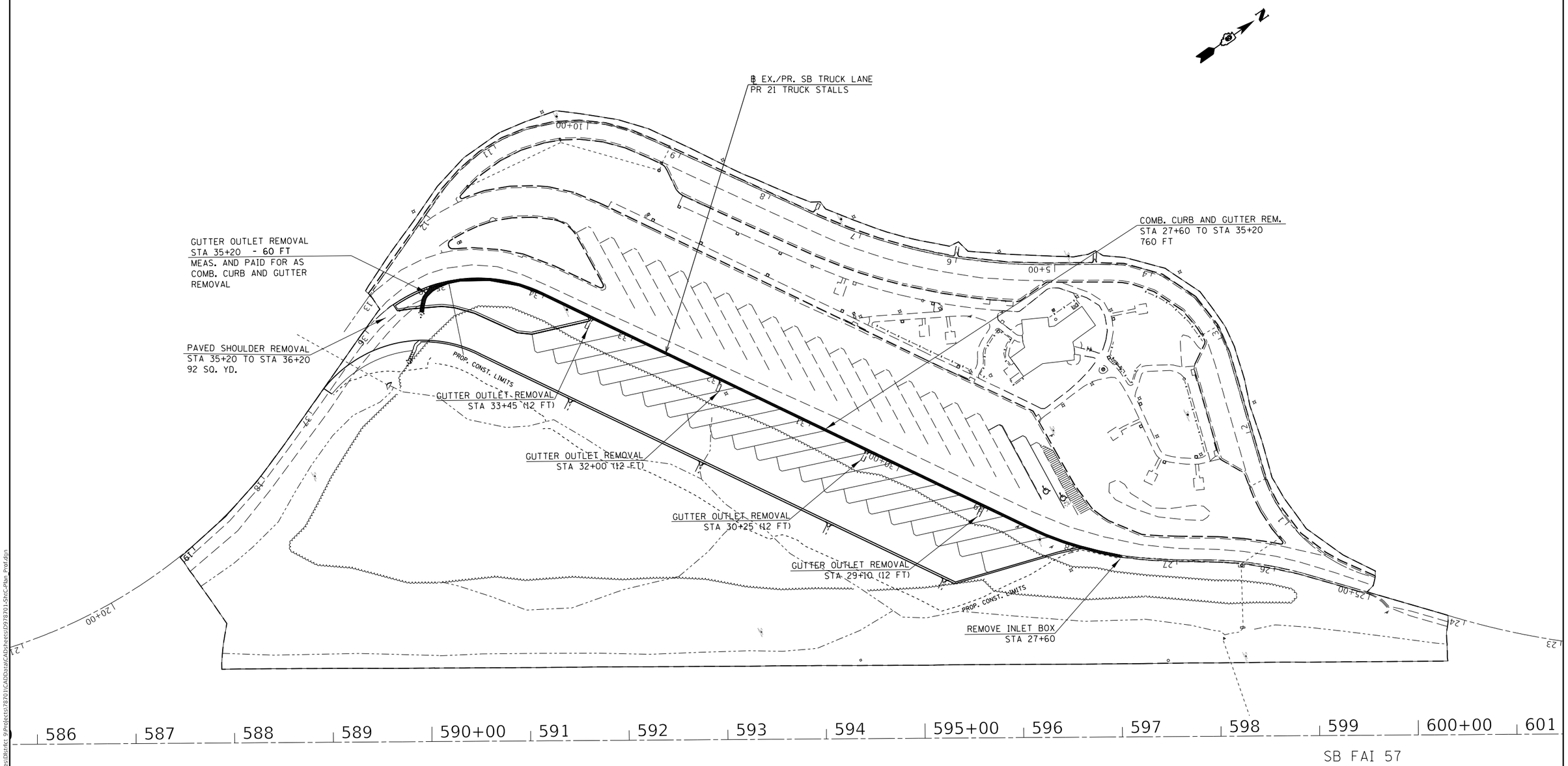

NOTES:

1. CURB AND GUTTER REMOVAL INCLUDES THE REMOVAL AND DISPOSAL OF EXISTING CURB AND GUTTER AS NECESSARY TO CONSTRUCT THE PROPOSED COMB. CONC. CURB AND GUTTER. SAW CUTS ARE INCLUDED IN THE UNIT COST OF COMB. CONC. CURB AND GUTTER TY B-9.18

2. GUTTER OUTLET REMOVAL SHALL BE PAID FOR AS COMB. CURB AND GUTTER REMOVAL.

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOUTHBOUND REMOVAL
PLAN

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(91-3)RA-1	UNION	63	22
		CONTRACT NO. 78701		
	ILLINOIS	FED. AID PROJECT		

NOTES:

* PROP. GUTTER OUTLET(S) TO BE PAID FOR AS CL. SI. CONCRETE OUTLET

℄ EX./PR. SB TRUCK LANE
PR 21 TRUCK STALLS

PROP. CL. SI. CONC.
OUTLET STD. 806201
STA 35+60 - 4.0 CY &
STONE RIPRAP CL. A3 (8")
11.1 SQ YD

STA 33+25
PROP. GUTTER OUTLET*
& STONE RIPRAP, CL. A3 (8")
11.1 SQ YD

PROP. CONST. LIMITS

STA 31+75
PROP. GUTTER OUTLET*
& STONE RIPRAP, CL. A3 (8")
11.1 SQ YD

STA 30+25
PROP. GUTTER OUTLET*
& STONE RIPRAP, CL. A3 (8")
11.1 SQ YD

PROP. CONST. LIMITS

STA 29+10
PROP. GUTTER OUTLET*
& STONE RIPRAP, CL. A3 (8")
11.1 SQ YD

PROP. INLET TY A
TY 11 FRAME AND GRATE
STA 27+60
LID EL. 438.50
INVERT EL. 435.59

589 | 590+00 | 591 | 592 | 593 | 594 | 595+00 | 596 | 597 | 598 | 599

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOUTHBOUND DRAINAGE PLAN

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(91-3)RA-1	UNION	63	23
		CONTRACT NO. 78701		
		ILLINOIS	FED. AID PROJECT	

PROP. COMB. CONC. CURB & GUTTER
TY B-9.18; ISLAND

PROP. PCC PAVEMENT, 10"
(JOINTED)

℄ EX./PR. SB TRUCK LANE
PR 21 TRUCK STALLS

N

35+60
34+07
33+45
77.0'
35.0'
35.0'
40.0'
28.5'
54.5'
28.5'
10'
36+72
PROP. CONST. LIMITS
PROP. 10' SHOULDER
PAID FOR AS
PCC PAVEMENT, 10"

PROP. COMB. CONC. CURB & GUTTER TY B-9.18
STA 27+60 TO STA 35+60

100'
27+97
27+60

PROP. CONST. LIMITS

10+00
5+00
30+00
35+00

589 | 590+00 | 591 | 592 | 593 | 594 | 595+00 | 596 | 597 | 598 | 599

SB FAI 57

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOUTHBOUND PAVEMENT
PLAN

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(91-3)RA-1	UNION	63	24
		CONTRACT NO. 78701		
	ILLINOIS	FED. AID PROJECT		

NOTES:
1. TEMPORARY DITCH CHECKS AT GUTTER OUTLETS SHALL BE REMOVED PRIOR TO PLACING THE STONE RIPRAP CL A3. ALL MATERIALS AND LABOR TO REMOVE AND DISPOSE OF THE TEMPORARY DITCH CHECKS SHALL BE INCLUDED IN THE UNIT COST OF TEMPORARY DITCH CHECKS.

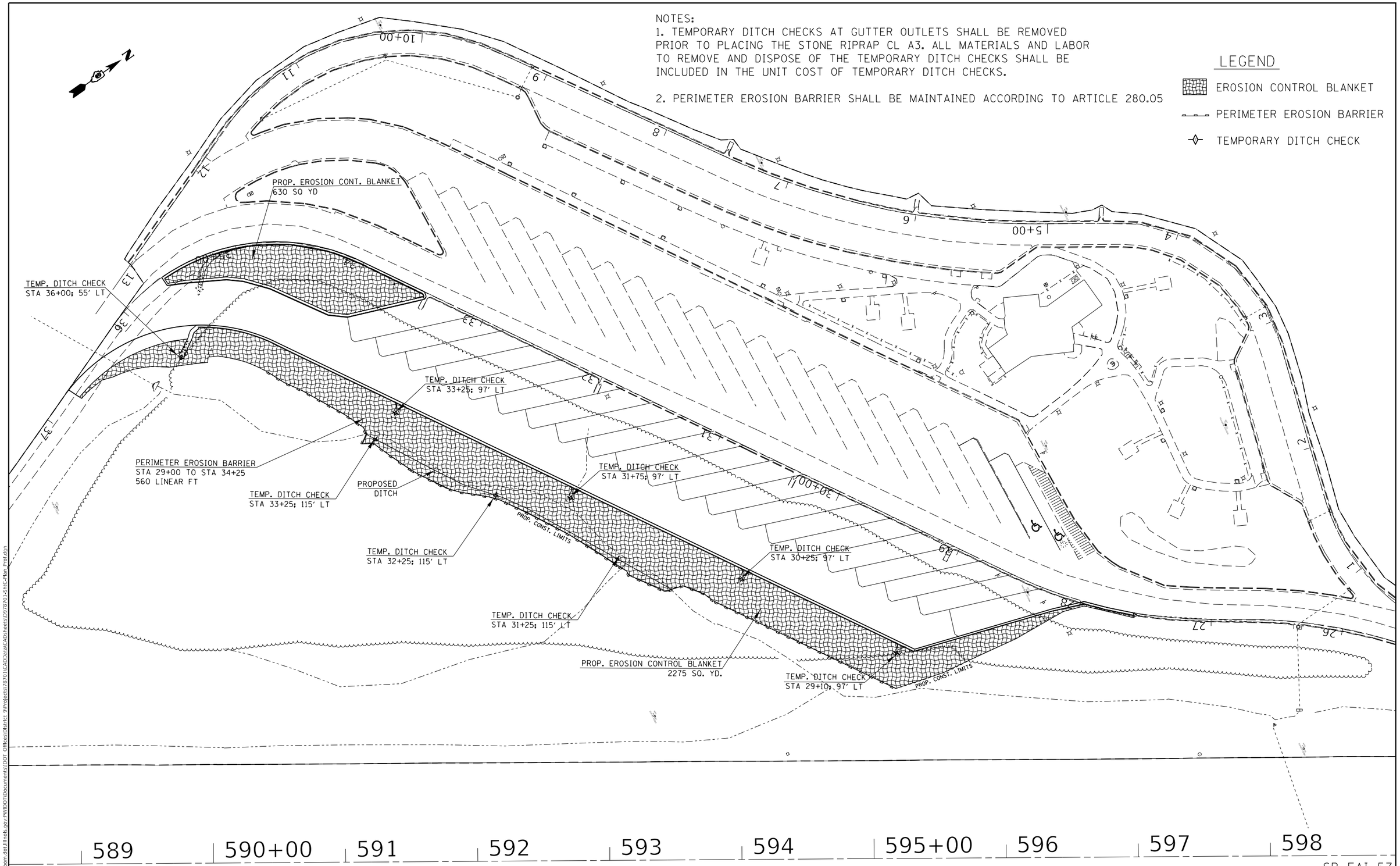
2. PERIMETER EROSION BARRIER SHALL BE MAINTAINED ACCORDING TO ARTICLE 280.05

LEGEND

EROSION CONTROL BLANKET

PERIMETER EROSION BARRIER

TEMPORARY DITCH CHECK



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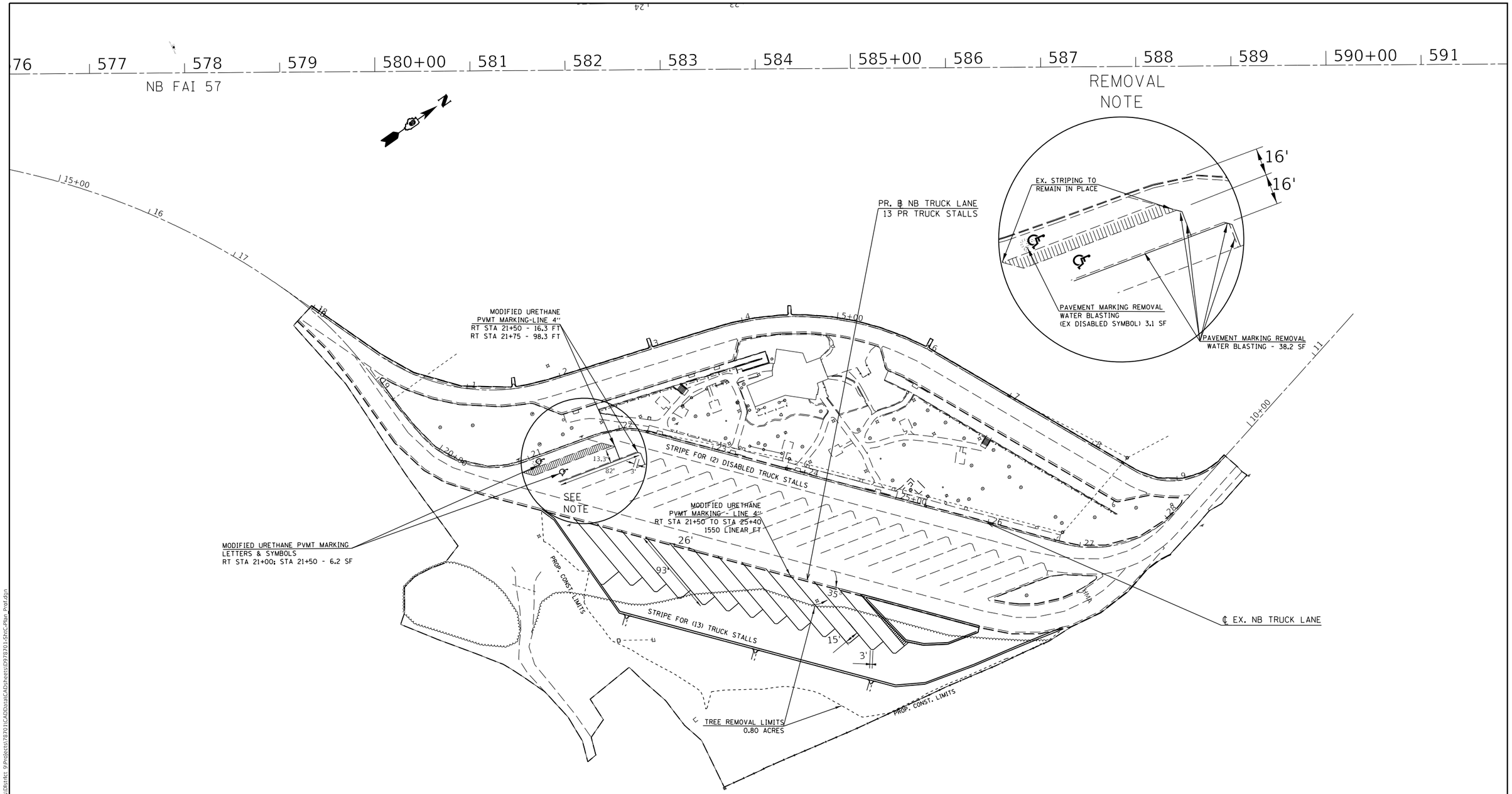
SOUTHBOUND SEEDING & EROSION CONTROL PLAN

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(91-3)RA-1	UNION	63	25
		CONTRACT NO. 78701		
	ILLINOIS	FED. AID PROJECT		



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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

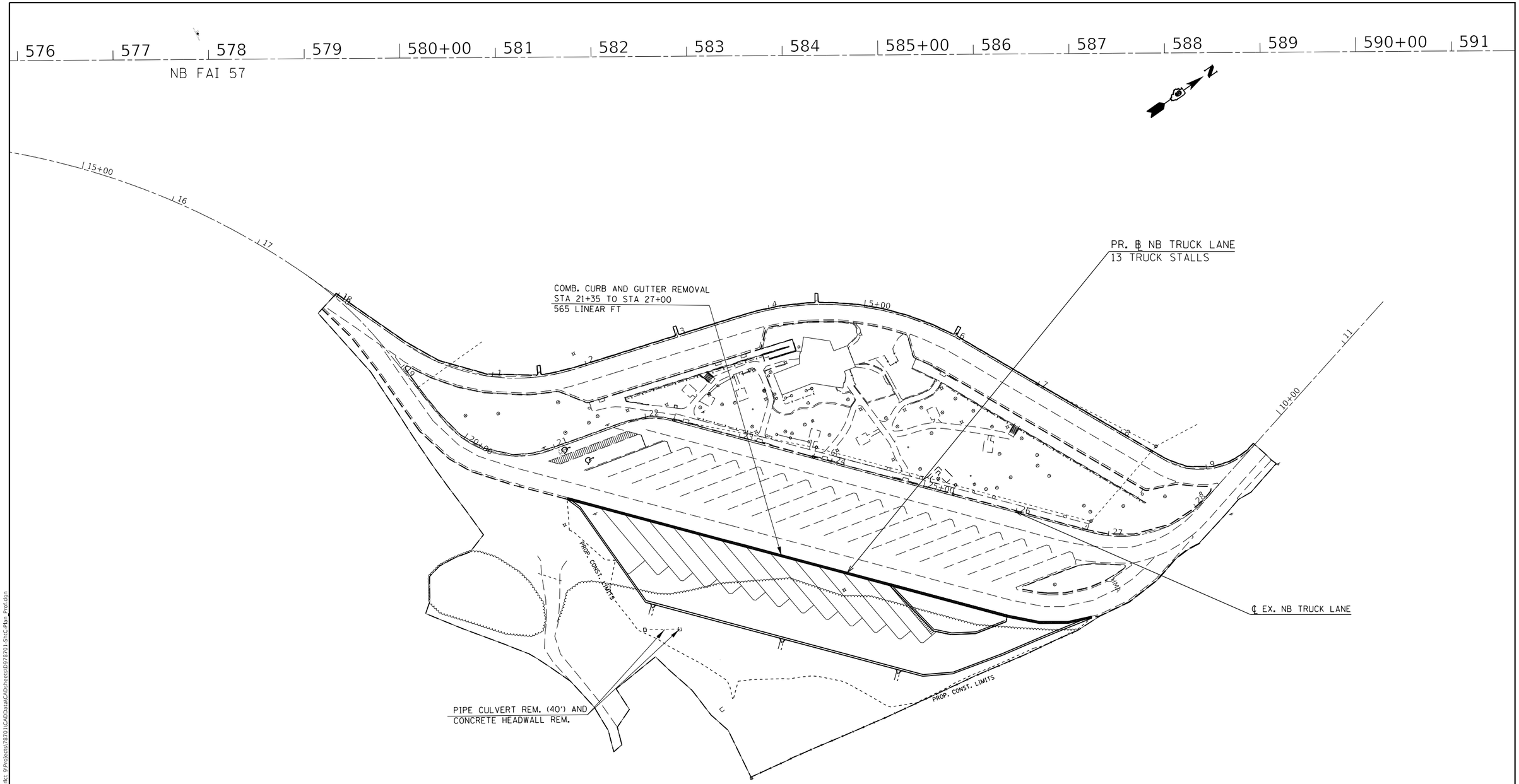
NORTHBOUND PAVEMENT MARKING & TREE REMOVAL PLAN

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(91-3)RA-1	UNION	63	26

CONTRACT NO. 78701

ILLINOIS | FED. AID PROJECT



NOTES:

1. CURB AND GUTTER REMOVAL INCLUDES THE REMOVAL AND DISPOSAL OF EXISTING CURB AND GUTTER AS NECESSARY TO CONSTRUCT THE PROPOSED COMB. CONC. CURB AND GUTTER. SAW CUTS ARE INCLUDED IN THE UNIT COST OF COMB. CONC. CURB AND GUTTER TY B-9.18

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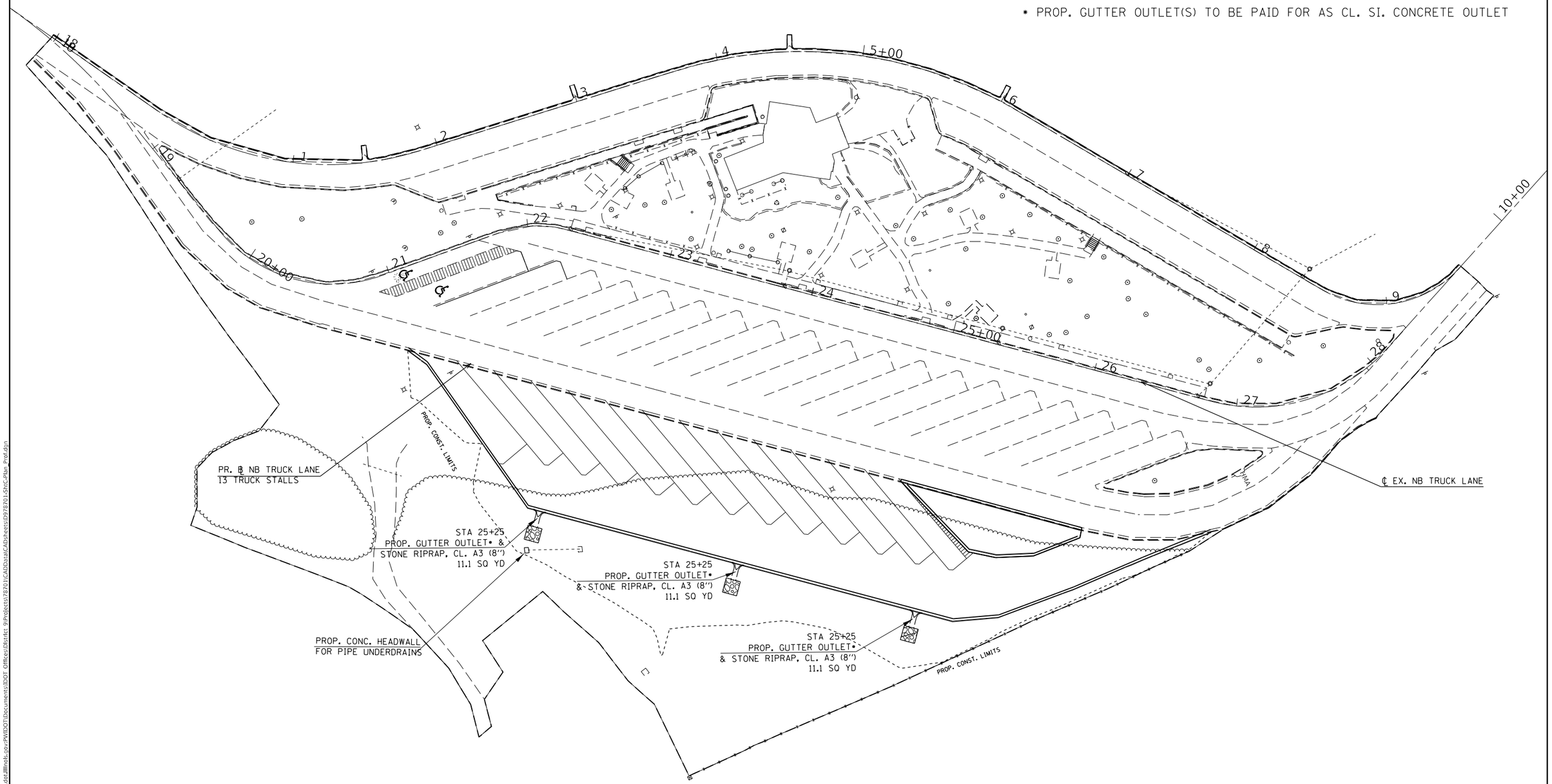
	DRAWN -	REVISED -						57	(91-3)RA-1	UNION	63 / 27
PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -								CONTRACT NO. 78701	
PLOT DATE = 4/22/2020	DATE -	REVISED -		SCALE:	SHEET OF SHEETS	STA.	TO STA.		ILLINOIS	FED. AID PROJECT	

NOTES:

* PROP. GUTTER OUTLET(S) TO BE PAID FOR AS CL. SI. CONCRETE OUTLET



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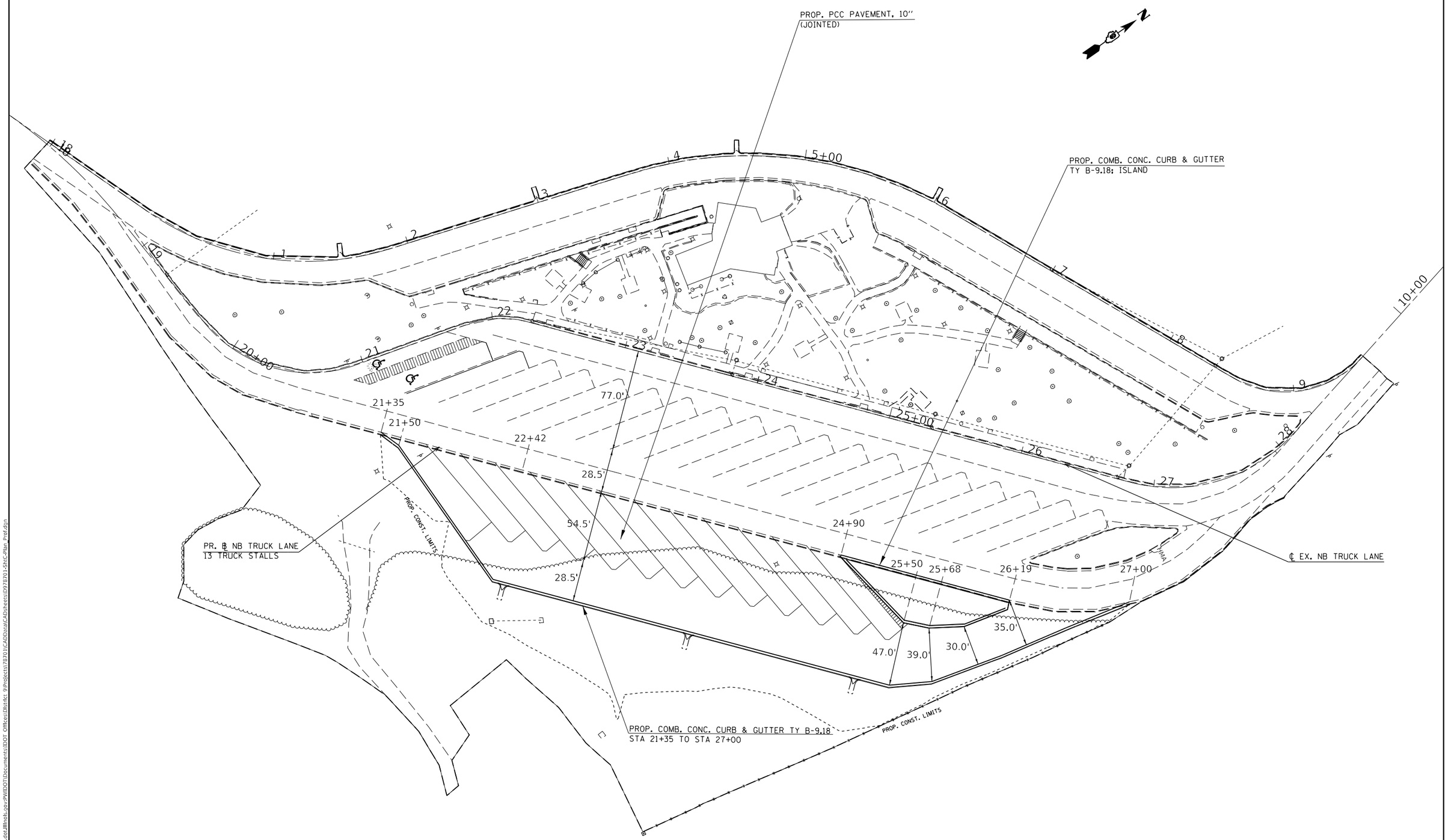
	DRAWN -	REVISED -					57	(91-3)RA-1	UNION	63	28
PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -							CONTRACT NO. 78701		
PLOT DATE = 4/22/2020	DATE -	REVISED -		SCALE:	SHEET OF SHEETS	STA. TO STA.		ILLINOIS	FED. AID PROJECT		



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PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -	
PLOT DATE = 4/22/2020	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

NORTHBOUND PAVEMENT
PLAN

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

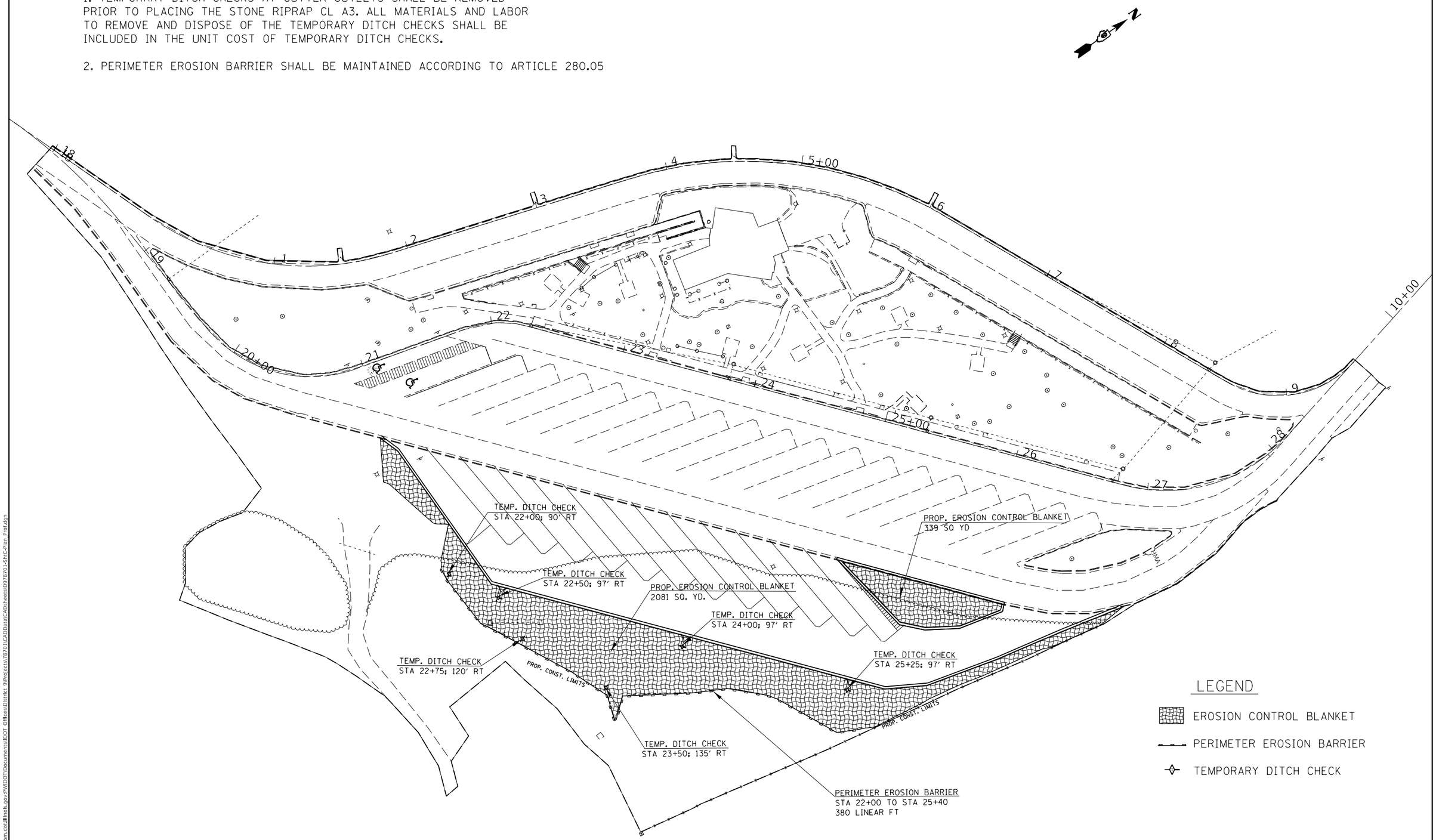
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(91-3)RA-1	UNION	63	29

CONTRACT NO. 78701

ILLINOIS | FED. AID PROJECT

NOTES:
1. TEMPORARY DITCH CHECKS AT GUTTER OUTLETS SHALL BE REMOVED PRIOR TO PLACING THE STONE RIPRAP CL A3. ALL MATERIALS AND LABOR TO REMOVE AND DISPOSE OF THE TEMPORARY DITCH CHECKS SHALL BE INCLUDED IN THE UNIT COST OF TEMPORARY DITCH CHECKS.

2. PERIMETER EROSION BARRIER SHALL BE MAINTAINED ACCORDING TO ARTICLE 280.05



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PLOT DATE = 4/22/2020	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

NORTHBOUND SEEDING & EROSION CONTROL PLAN

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(91-3)RA-1	UNION	63	30

CONTRACT NO. 78701

ILLINOIS | FED. AID PROJECT

LEGEND

E — EXISTING LIGHTING CONTROLLER

E — EXISTING HIGH MAST TOWER TO BE REMOVED, BREAKDOWN FOUNDATION BELOW GRADE

PROPOSED GALVANIZED STEEL HIGHMAST TOWER, 100 FT. M.H. ON 48' DIA. CONCRETE FOUNDATION, WITH 6 LED LUMINAIRES, 480 V, LUMINAIRE AIMING AS SHOWN ON PLAN, LUMINAIRE OUTPUT DESIGNATION H

PROPOSED UNIT DUCT, SIZED AS NOTED

PROPOSED COILABLE NONMETALLIC CONDUIT 2" DIA. LENTH AS NOTED

NOTES

1. ALL EXISTING LIGHTING TO BE REMOVED SHALL REMAIN UNTIL PROPOSED LIGHTING IS OPERATIONAL

2. ELECTRIC CABLES IN EXISTING CONDUIT TO EXISTING HIGH MAST TOWERS SHALL BE REMOVED AND PAID FOR AS "REMOVE ELECTRIC CABLE FROM CONDUIT"

CONDUCTOR SCHEDULE

(A) UNIT DUCT, COPPER, 600V, 2-1C NO. 8, 1/C NO. 8 GROUND (XLP-TYPE USE) 3/4" DIA. POLYETHYLENE

(B) UNIT DUCT, COPPER, 600V, 2-1C NO. 6, 1/C NO. 6 GROUND (XLP-TYPE USE) 3/4" DIA. POLYETHYLENE

Luminaire Performance Table

Project

Date	Contract Number	Section Number	County
1/30/20	78701	(91-3)RA-1	UNION

Marked Route Number	Municipality
I-57: TRAIL OF TEARS REST AREA, TRUCK PARKING	CITY OF ANNA

Roadway

Lane Width	#of Lanes	Median Width	I.E.S Surface Classification	Q-Zero Value
12 FT	5	15 FT	R3	0.07

Structure

Mounting Height	Arm Length	Set Back	Number of Luminaires (Highmast & Sign Lighting Only)
100 FT	4 FT	7.5 FT	6

Luminaire

Description	I.E.S. Lateral Distribution	I.E.S. Vertical Distribution
HIGHMAST, OUTPUT DESIGNATION H	TYPE III	MEDIUM

Total Light Loss Factor (LLF)	BUG Rating	Shields	Dimming Protocol
0.684	U = 0	N/A	0-10V

Layout

Spacing (to Nearest 5 Ft)	Configuration (Opposite, Staggered, 1 Sided, or Median)
520	MEDIAN (3 LUMINAIRES PER TRAVEL DIRECTION)

Performance

Average Illuminance, E_{AVE} (fc)	Uniformity Ratio, E_{AVE}/E_{MIN}
1.1	4:1

Average Luminance, L_{AVE}(cd/m^2)	Uniformity Ratio, L_{AVE}/L_{MIN}	Uniformity Ratio, L_{MAX}/L_{MIN}	Veiling Luminance Ratio, L_V/L_{MIN}
N/A	N/A	N/A	0.30:1

Light Tresspass

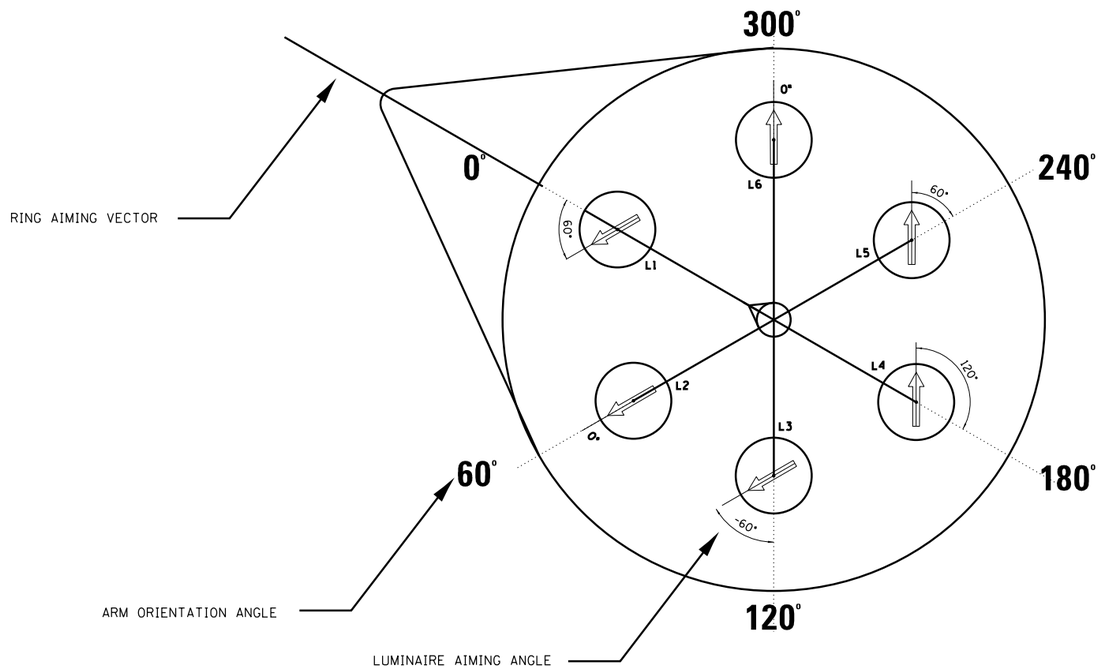
Distance to ROW (behind pole)	Max. Horizontal Illuminance at ROW, E	Max. Vertical Illuminance at ROW, E
N/A	N/A	N/A

Notes

1. Set Back is from Edge of Pavement (white line) except for sign luminaires when it is vertical and horizontal distance from the sign to the luminaire.
2. Lighting calculations shall be performed with all luminaires oriented toward and perpendicular to roadway.
3. Total Light Loss Factor (LLF) = the product of "Lumen Maintenance" (LLD) = 0.9, "Dirt Depreciation" (LDD) = 0.8, and "Equipment Factors" (EF) = 0.95.
4. Performance requirements shall be the minimum acceptable standards of photometric performance for the luminaire, based on the given conditions above.

CALCULATIONS TO BE PERFORMED WITH MEDIAN-MOUNTED 100 FT TOWERS, ON A ROADWAY WITH TWO DIRECTIONS OF TRAVEL AND A 15 FT MEDIAN. EACH DIRECTION SHALL CONSIST OF FIVE 12 FT WIDE LANES. FOR CALCULATION PURPOSES, THE TOWERS SHALL HAVE A TOTAL OF 6 LUMINAIRES, WITH 3 ORIENTED PERPENDICULAR TO THE ROADWAY FOR EACH DIRECTION OF TRAVEL.

E1



TOWER RING DIAGRAM

NOTES: LUMINAIRE ARRANGEMENT

1. THE LUMINAIRE ARRANGEMENT ON ALL TOWER RINGS SHALL BE AS SPECIFIED BELOW

LUMINARE	ARM ORIENTATION	AIMING ANGLE (REF. ARM)
L1	0°	060°
L2	060°	0°
L3	120°	300°(-60°)
L4	180°	120°
L5	240°	60°
L6	300°	0°

2. LUMINAIRE AIMING ANGLES IN THE TABLE ABOVE ARE SPECIFIED COUNTER-CLOCKWISE WITH REFERENCE TO THE CORRESPONDING ARM ORIENTATION

3. ARM ORIENTATION 0° SHALL BE THE DESIGNATED AIMING VECTOR FOR EACH RING

4. LUMINAIRES L1-L6 SHALL BE ARRANGED STARTING WITH THE DESIGNATED 0°-ARM COUNTER-CLOCKWISE AROUND THE RING (SEE DIAGRAM)

TOWER RING AIMING SCHEDULE

I-57 NORTHBOUND REST AREA TOWERS

TOWER	AIMING ANGLE (REF. DUE NORTH)
N3	155° WEST
N9	022° EAST

I-57 SOUTHBOUND REST AREA TOWERS

TOWER	AIMING ANGLE (REF. DUE NORTH)
N16	125° WEST
N21	051° EAST

E2

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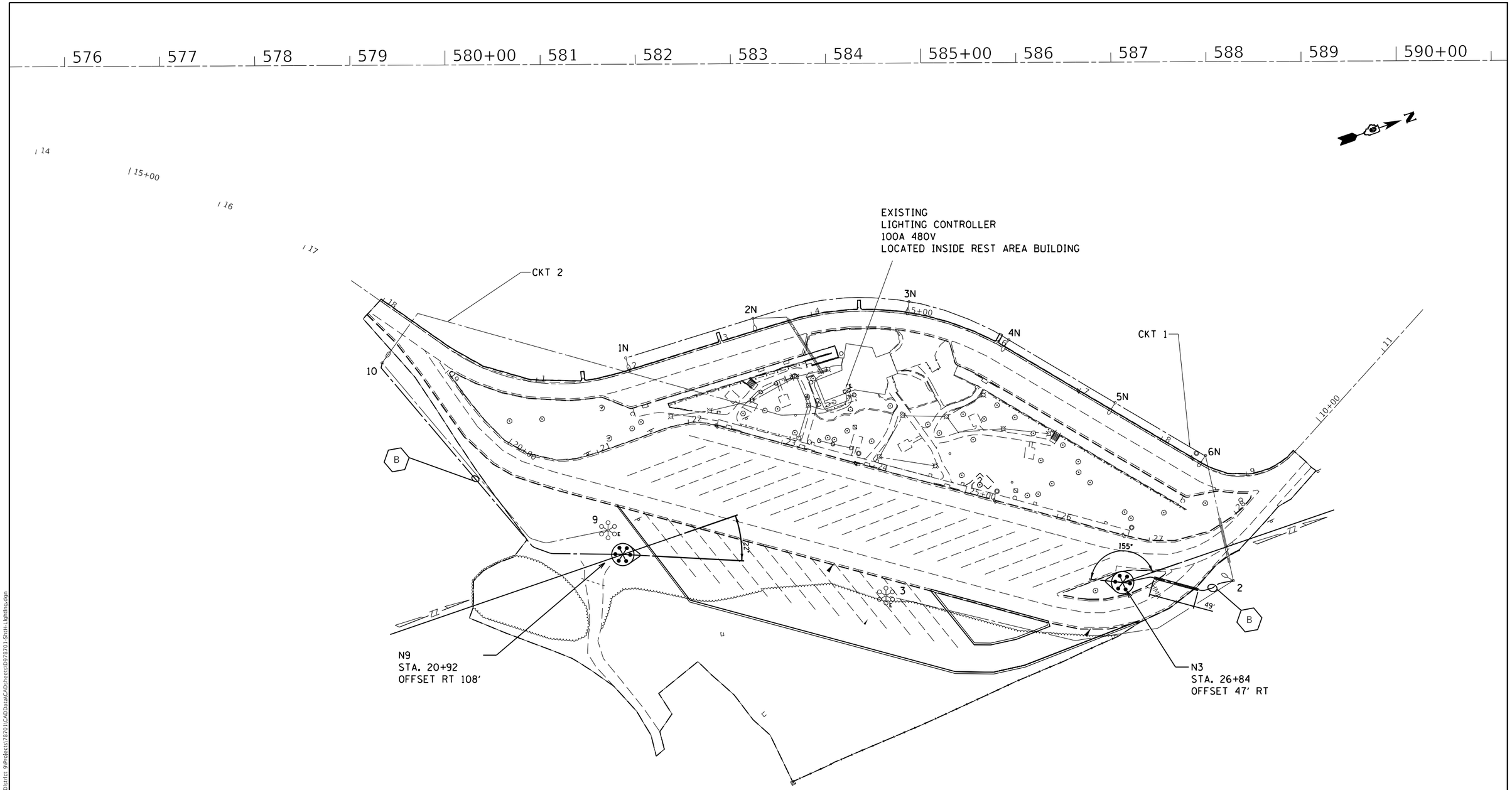
PLOT DATE = 4/22/2020	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

I-57 TRAIL OF TEARS REST AREA: TRUCK PARKING LIGHTING
LUMINAIRE AIMING, RING AIMING

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(91-3)RA-1	UNION	63	32
		CONTRACT NO. 78701		
	ILLINOIS	FED. AID PROJECT		



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PLOT DATE = 4/22/2020	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

NORTHBOUND REST AREA
PROPOSED LIGHTING PLAN

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(91-3)RA-1	UNION	63	33
		CONTRACT NO. 78701		
	ILLINOIS	FED. AID PROJECT		

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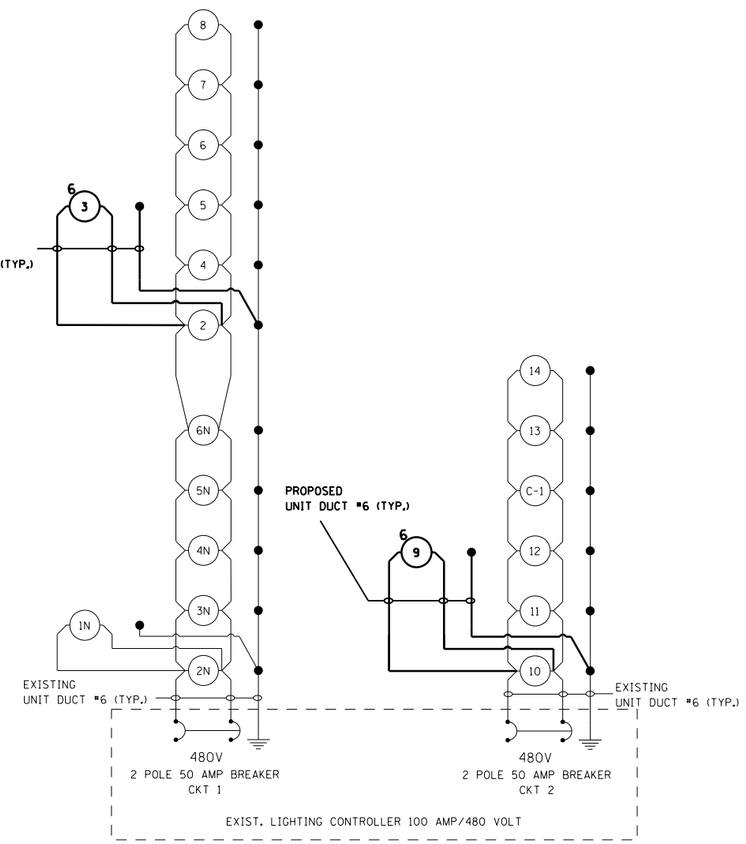
NOTES:

1. ALL NECESSARY REVISIONS TO THE WIRING SHOWN ON THIS SHEET SHALL BE MADE AT NO ADDTIONAL COST TO THE DEPARTMENT AND TO THE SATISFACTION OF THE ENGINEER.

(1) EXISTING LIGHTING UNIT

N (1) PROPOSED HIGH MAST N-LUMINAIRE TOWER

⏚ GROUND ROD



CIRCUIT DIAGRAM

E4

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PLOT DATE = 4/22/2020	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

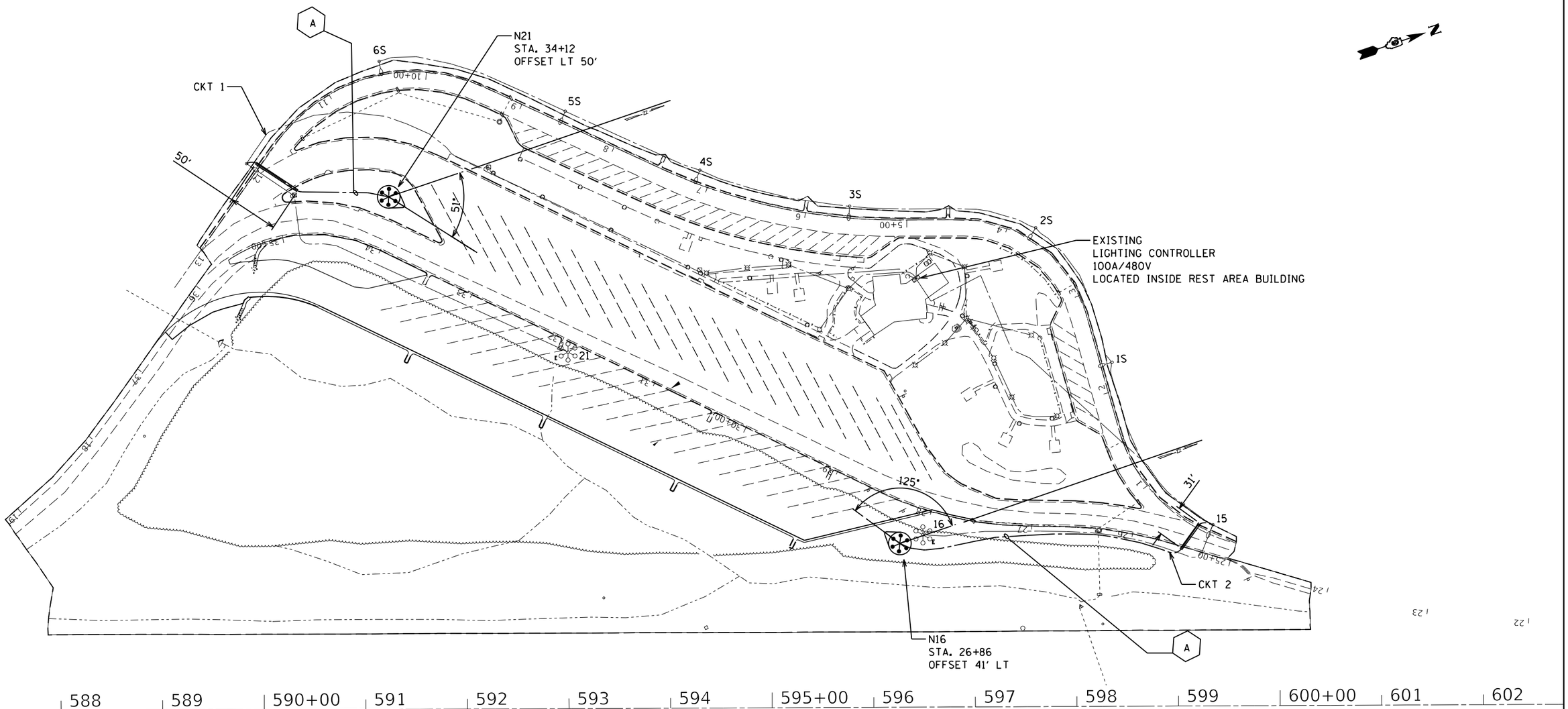
NORTHBOUND REST AREA
WIRING DIAGRAM

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(91-3)RA-1	UNION	63	34

CONTRACT NO. 78701

ILLINOIS | FED. AID PROJECT



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PLOT DATE = 4/22/2020	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOUTHBOUND REST AREA
PROPOSED LIGHTING PLAN

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(91-3)RA-1	UNION	63	35
		CONTRACT NO. 78701		
	ILLINOIS	FED. AID PROJECT		

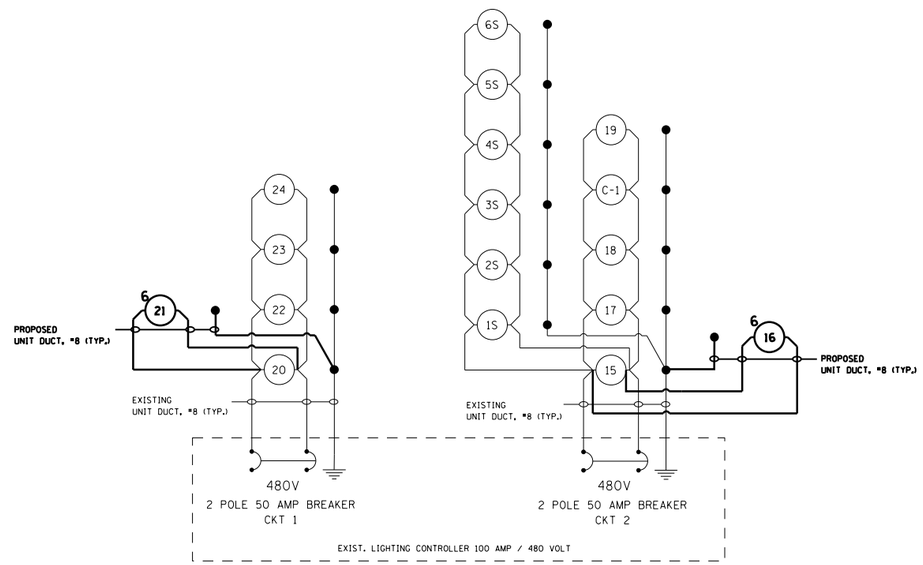
NOTES:

1. ALL NECESSARY REVISIONS TO THE WIRING SHOWN ON THIS SHEET SHALL BE MADE AT NO ADDTIONAL COST TO THE DEPARTMENT AND TO THE SATISFACTION OF THE ENGINEER.

(1) EXCITING LIGHTING UNIT

N (1) PROPOSED N-LUMINAIRE TOWER LIGHTING UNIT

GROUND ROD



CIRCUIT DIAGRAM

E6

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PLOT DATE = 4/22/2020	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

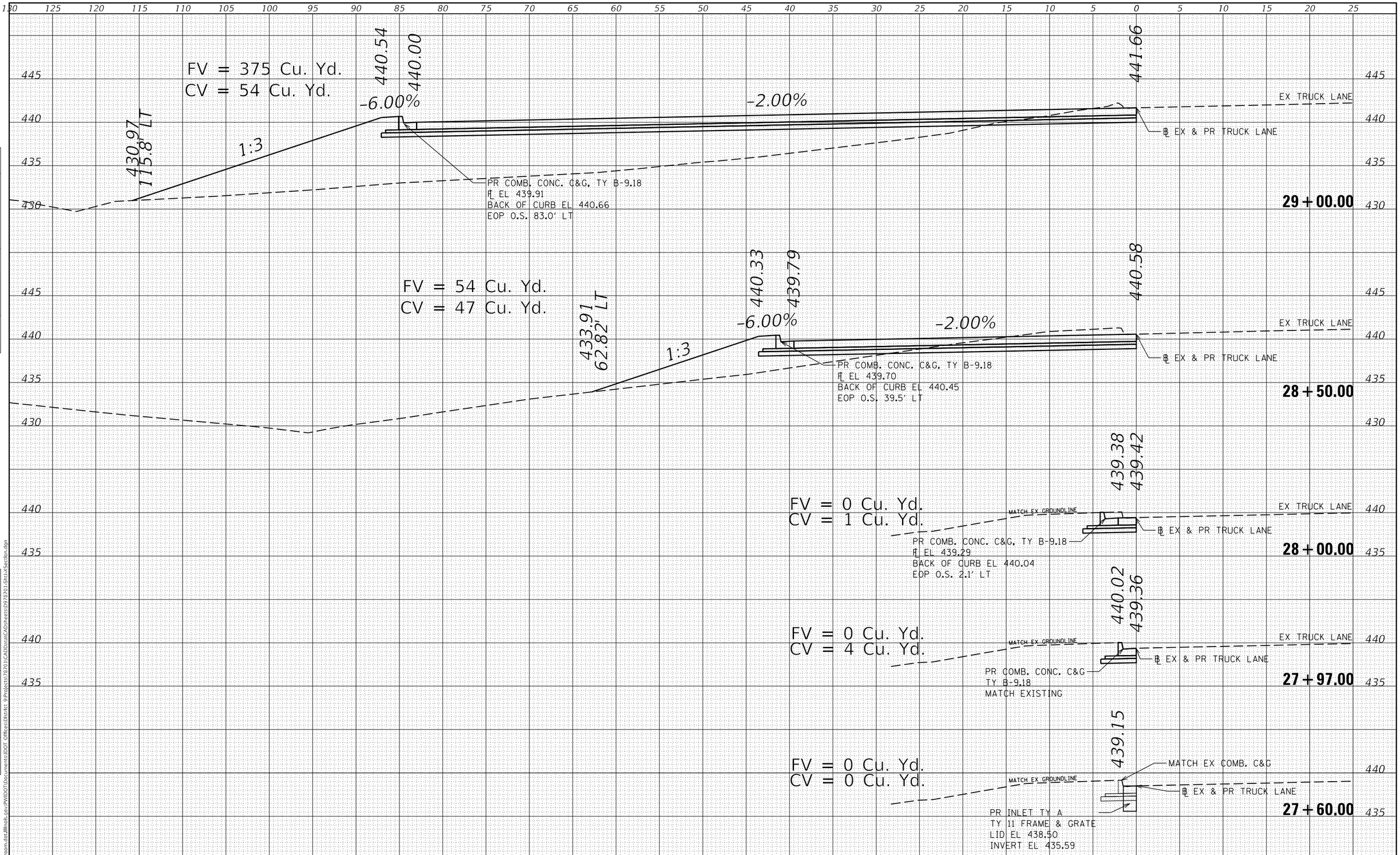
SOUTHBOUND REST AREA
WIRING DIAGRAM

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(91-3)RA-1	UNION	63	36

CONTRACT NO. 78701

ILLINOIS | FED. AID PROJECT



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PLOT DATE = 4/22/2020	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOUTHBOUND
CROSS SECTIONS

SCALE: | SHEET OF SHEETS | STA. 27+60.00 TO STA. 29+00.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(91-3)RA-1	UNION	63	37

CONTRACT NO. 78701

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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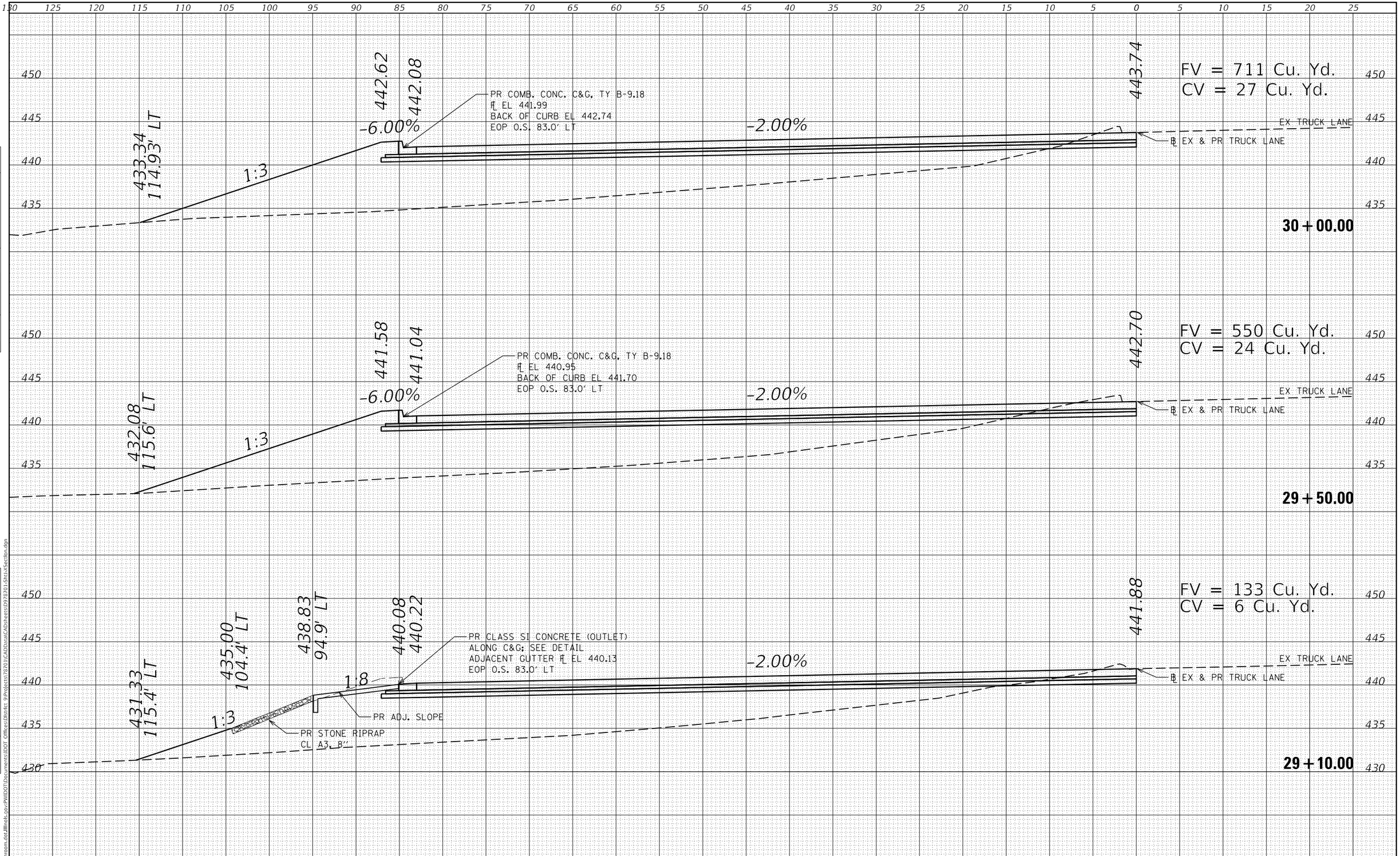

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOUTHBOUND
CROSS SECTIONS

SCALE: | SHEET OF SHEETS | STA. 29+10.00 TO STA. 30+00.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(91-3)RA-1	UNION	63	38

CONTRACT NO. 78701

ILLINOIS | FED. AID PROJECT

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SURVEYED		
PLOTTED		
TEMPLATE		
AREAS		
AREAS CHECKED		
NOTE BOOK		
NO.		

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SURVEYED		
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AREAS		
AREAS CHECKED		
NOTE BOOK		
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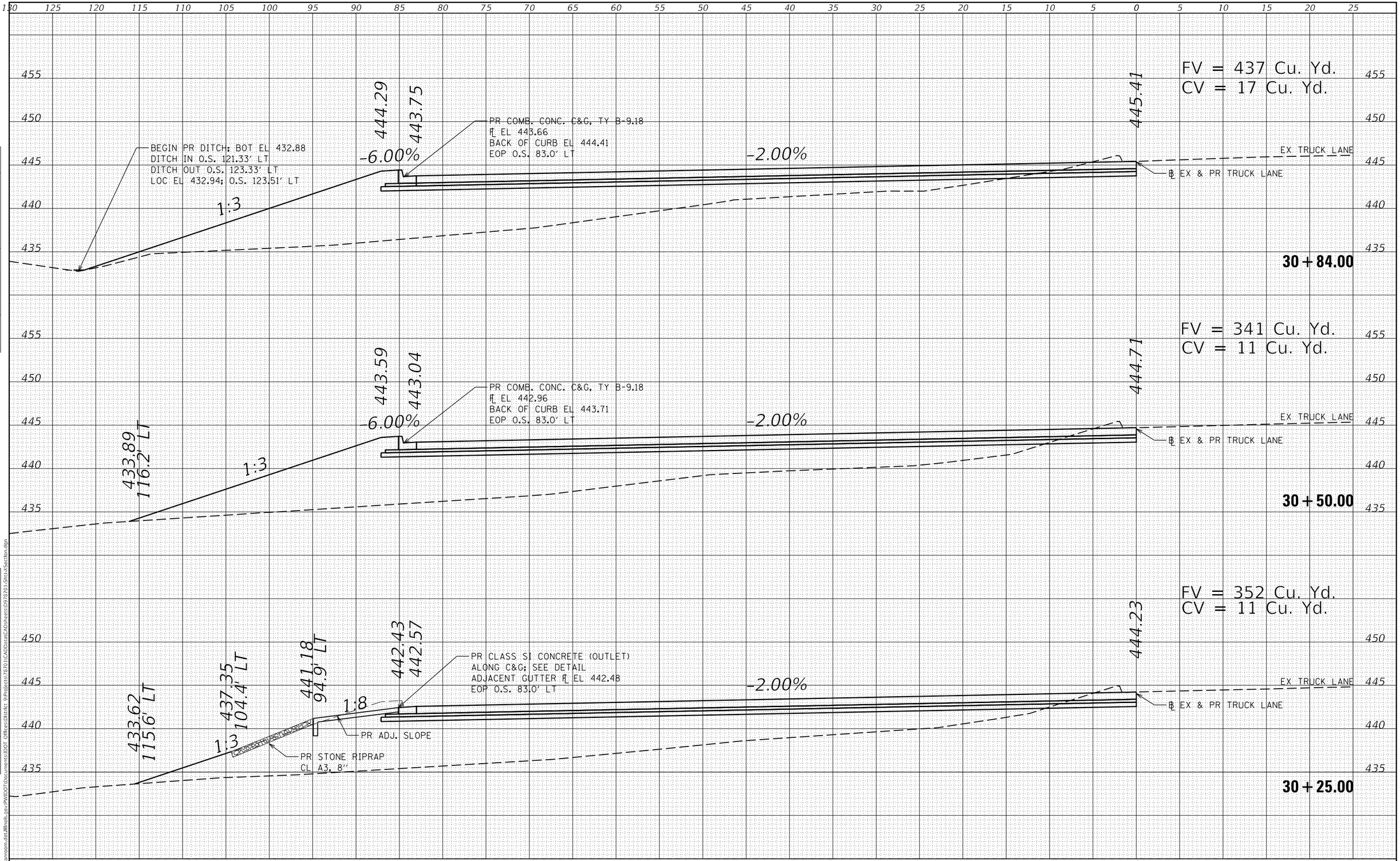

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PLOT DATE = 4/22/2020	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOUTHBOUND
CROSS SECTIONS

SCALE: | SHEET OF SHEETS | STA. 30+25.00 TO STA. 30+84.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(91-3)RA-1	UNION	63	39

CONTRACT NO. 78701

ILLINOIS | FED. AID PROJECT

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NOTE BOOK	SURVEYED		
NO.	PLOTTED		
	TEMPLATE		
	AREAS		
	AREAS CHECKED		

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

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		
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PLOT DATE = 4/22/2020	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

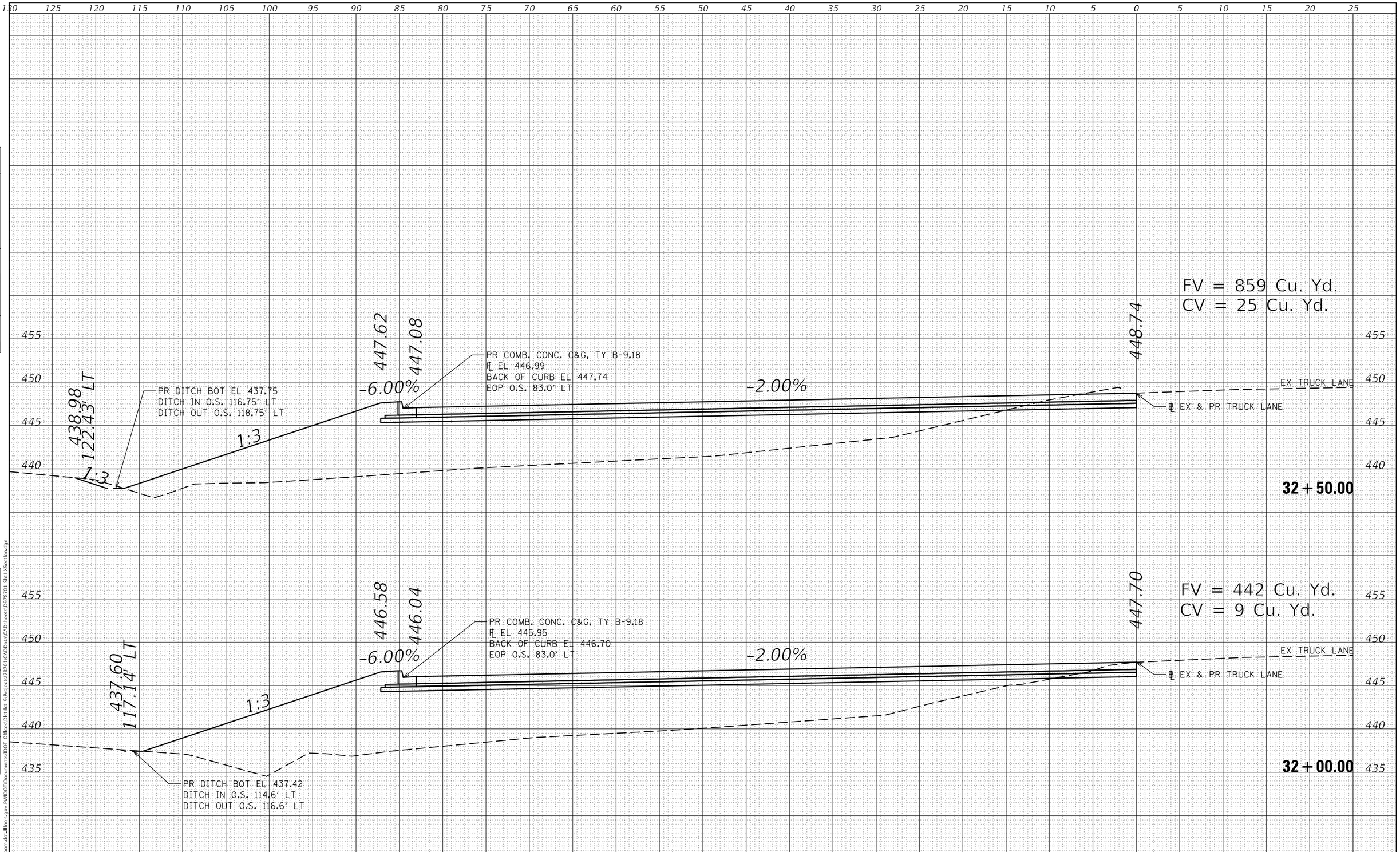
SOUTHBOUND
CROSS SECTIONS

SCALE: | SHEET OF SHEETS | STA. 31+00.00 TO STA. 31+75.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(91-3)RA-1	UNION	63	40

CONTRACT NO. 78701

ILLINOIS | FED. AID PROJECT



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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

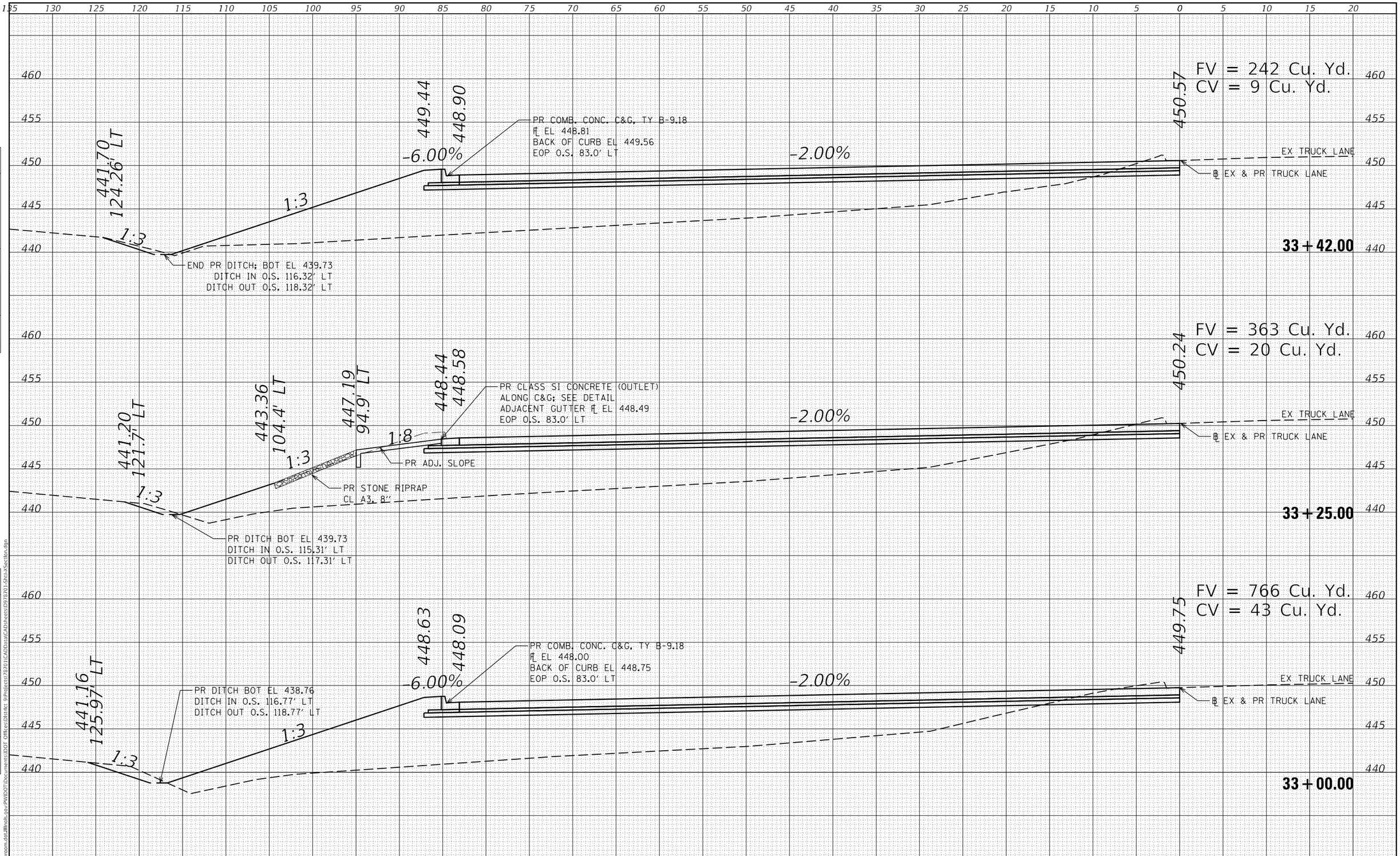
SOUTHBOUND
CROSS SECTIONS

SCALE: | SHEET OF SHEETS | STA. 32+00.00 TO STA. 32+50.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(91-3)RA-1	UNION	63	41

CONTRACT NO. 78701

ILLINOIS | FED. AID PROJECT



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

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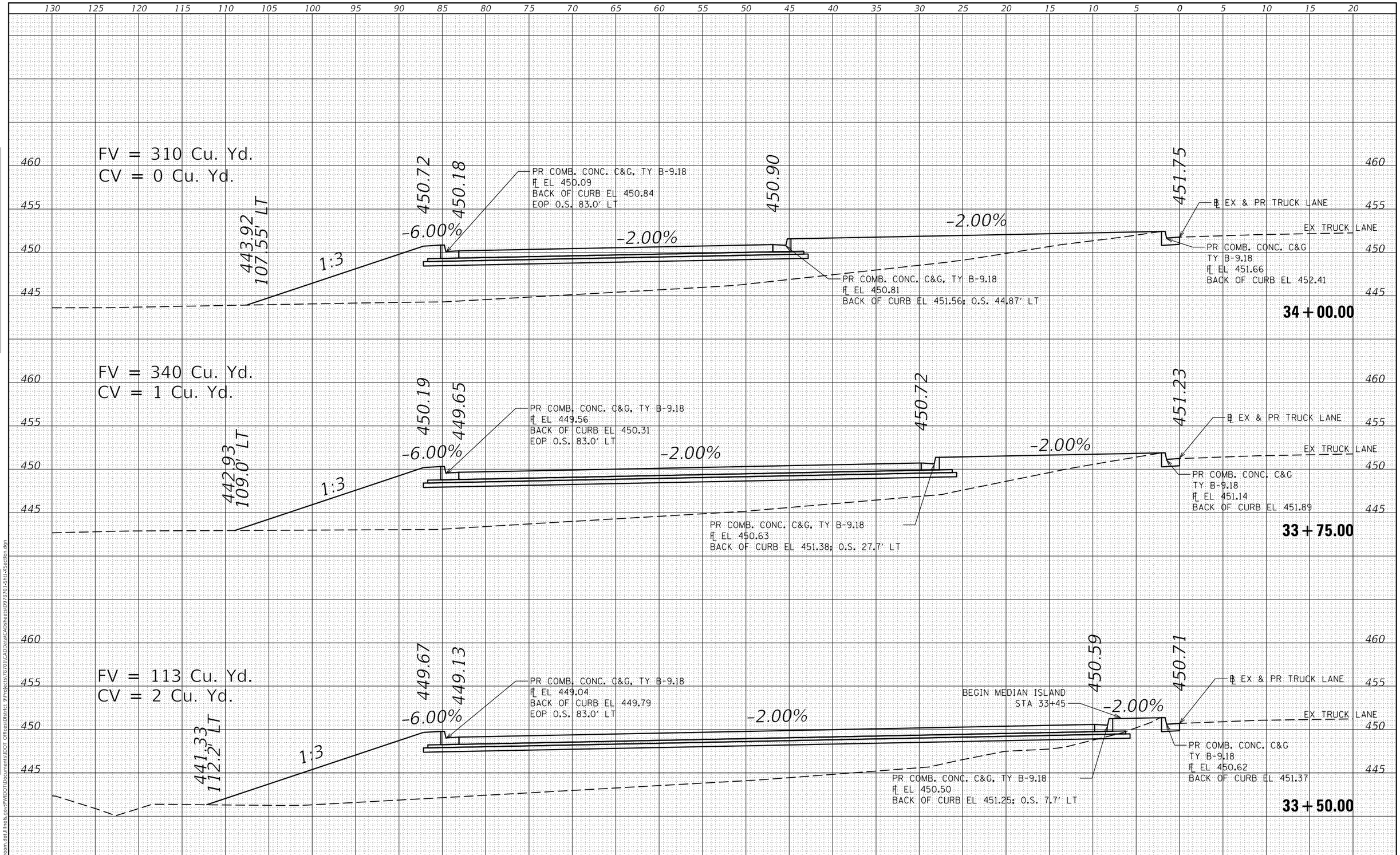
PLOT DATE = 4/22/2020	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOUTHBOUND
CROSS SECTIONS

SCALE: SHEET OF SHEETS STA. 33+00.00 TO STA. 33+42.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(91-3)RA-1	UNION	63	42
		CONTRACT NO. 78701		
		ILLINOIS	FED. AID PROJECT	



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SURVEYED		
PLOTTED		
TEMPLATE		
AREAS		
AREAS CHECKED		
NOTE BOOK		
NO.		

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SURVEYED		
PLOTTED		
TEMPLATE		
AREAS		
AREAS CHECKED		
NOTE BOOK		
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PLOT DATE = 4/22/2020	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

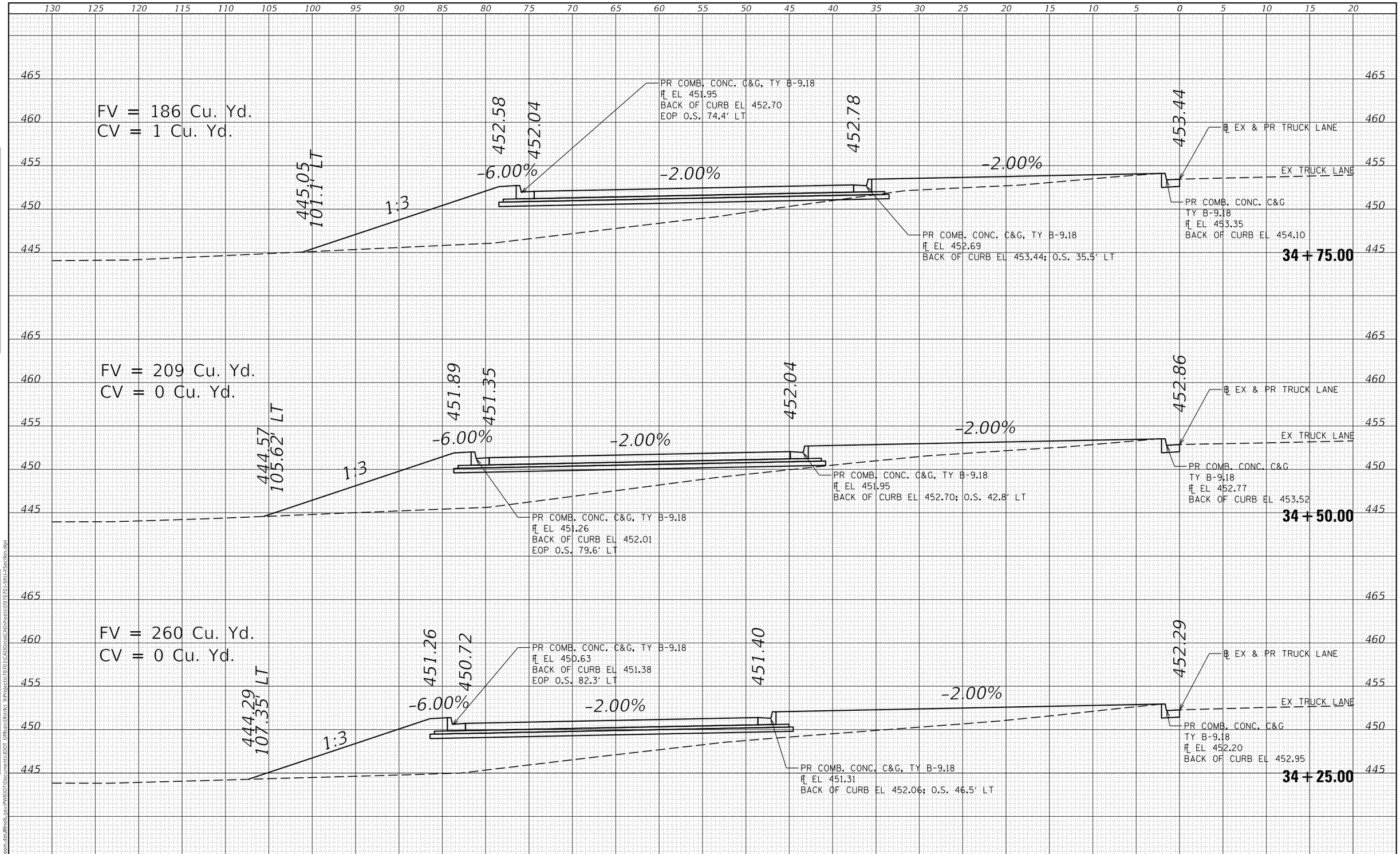
SOUTHBOUND
CROSS SECTIONS

SCALE: | SHEET OF SHEETS | STA. 33+50.00 TO STA. 34+00.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(91-3)RA-1	UNION	63	43

CONTRACT NO. 78701

ILLINOIS | FED. AID PROJECT



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PLOT DATE = 4/22/2020	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOUTHBOUND
CROSS SECTIONS

SCALE: SHEET OF SHEETS STA. 34+25.00 TO STA. 34+75.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(91-3)RA-1	UNION	63	44
		CONTRACT NO. 78701		
		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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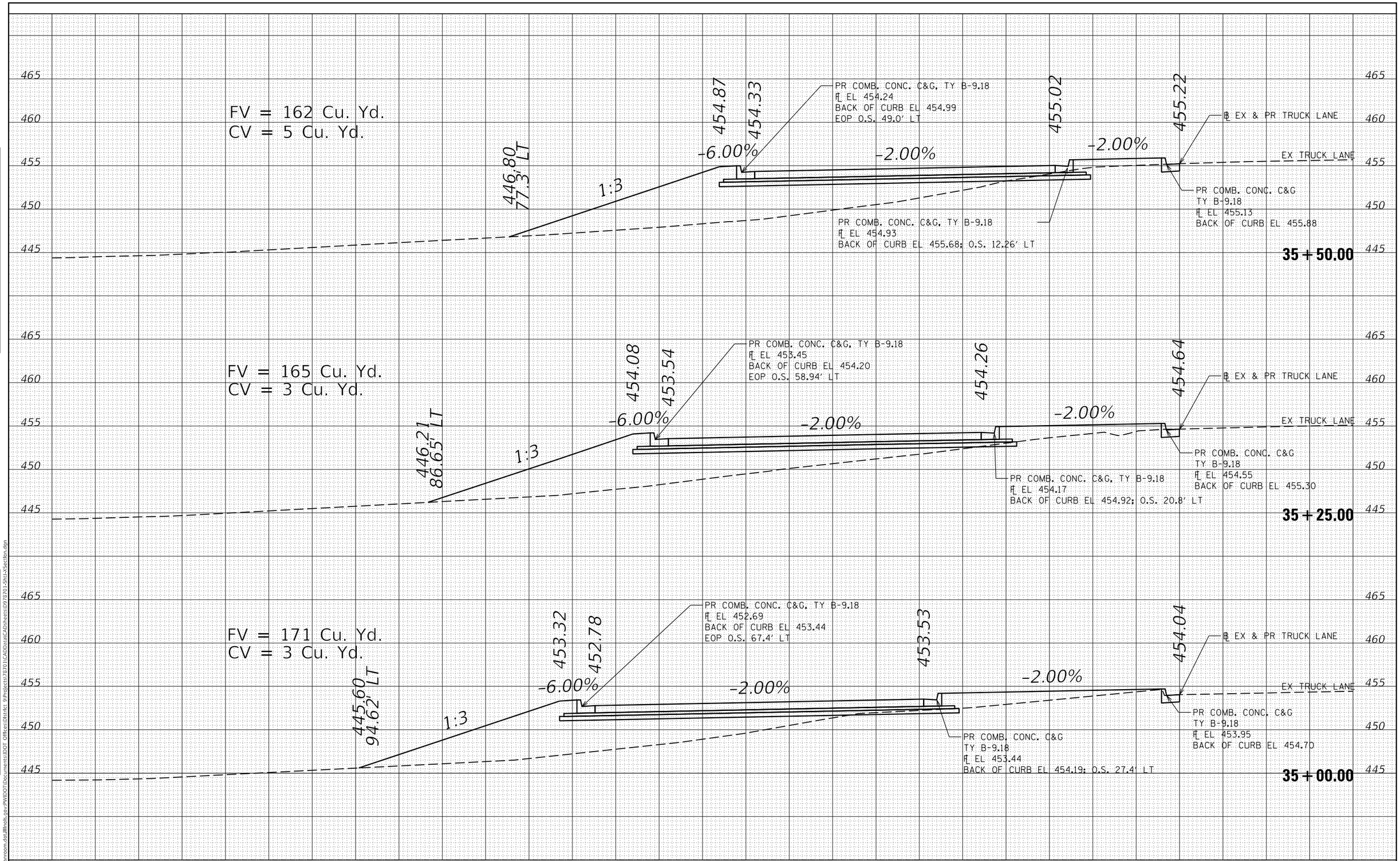

FINAL SURVEY		BY	DATE
NOTE BOOK	SURVEYED		
	PLOTTED		
	TEMPLATE		
	AREAS		
NO.	AREAS CHECKED		

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NOTE BOOK	SURVEYED		
	PLOTTED		
	TEMPLATE		
	AREAS		
NO.	AREAS CHECKED		

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PLOT DATE = 4/22/2020	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

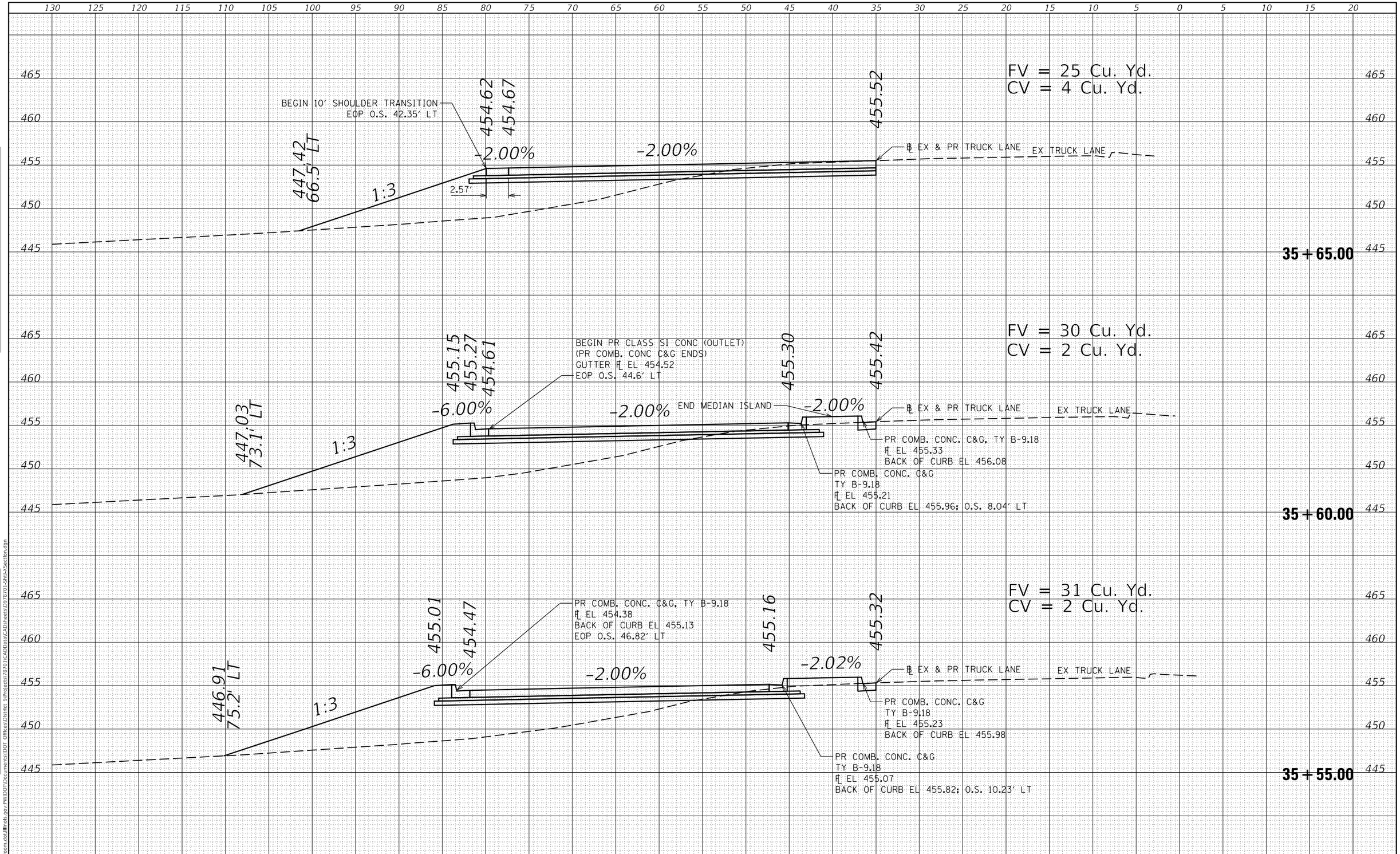
SOUTHBOUND
CROSS SECTIONS

SCALE: | SHEET OF SHEETS | STA. 35+00.00 TO STA. 35+50.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(91-3)RA-1	UNION	63	45

CONTRACT NO. 78701

ILLINOIS | FED. AID PROJECT



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SURVEYED		
PLOTTED		
TEMPLATE		
AREAS		
AREAS CHECKED		
NOTE BOOK		
NO.		

ORIGINAL SURVEY	BY	DATE
SURVEYED		
PLOTTED		
TEMPLATE		
AREAS		
AREAS CHECKED		
NOTE BOOK		
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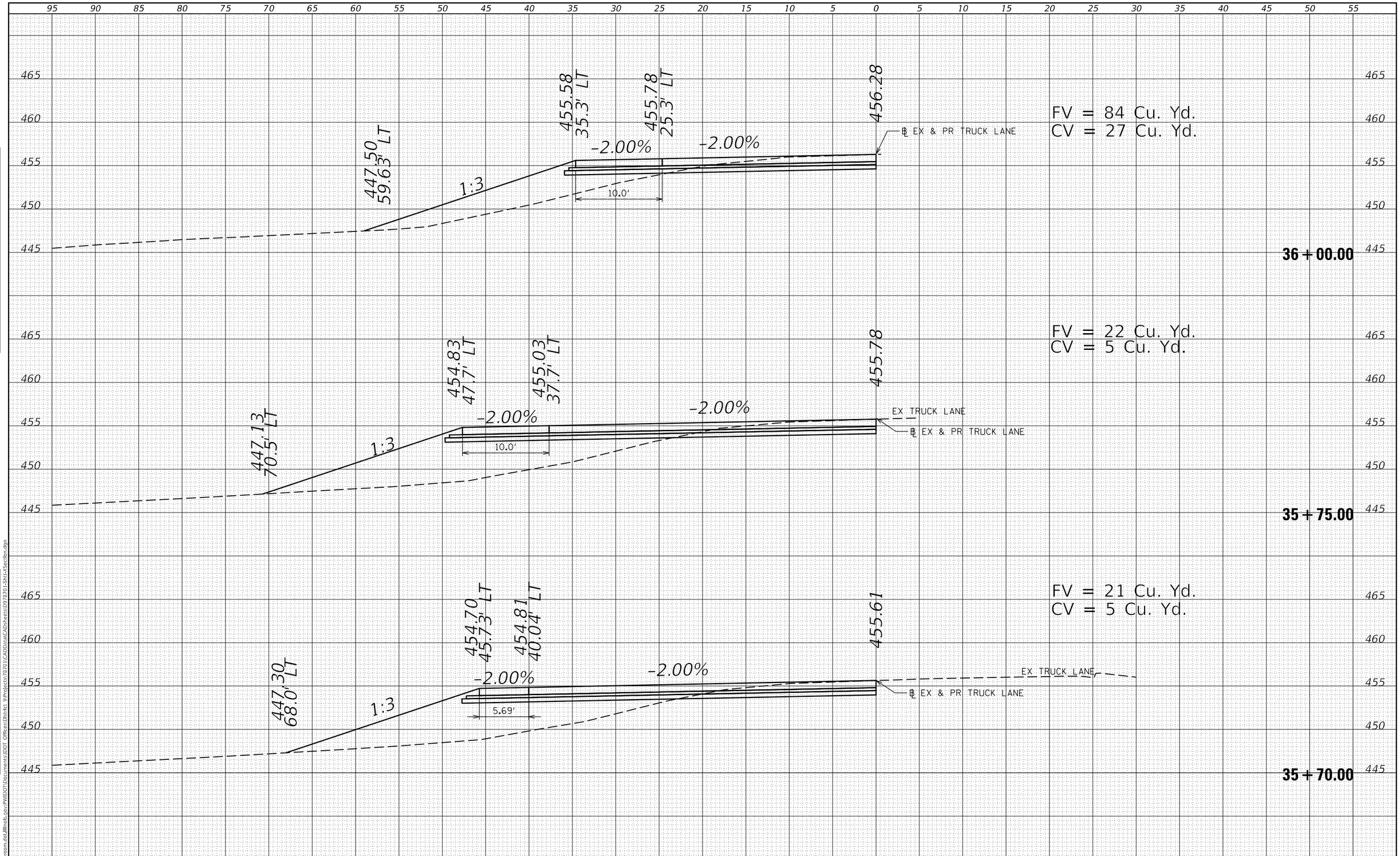
PLOT DATE = 4/22/2020	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOUTHBOUND
CROSS SECTIONS

SCALE: SHEET OF SHEETS STA. 35+55.00 TO STA. 35+65.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(91-3)RA-1	UNION	63	46
		CONTRACT NO. 78701		
		ILLINOIS FED. AID PROJECT		



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

ORIGINAL SURVEY		BY	DATE
NOTE BOOK	SURVEYED		
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	AREAS		
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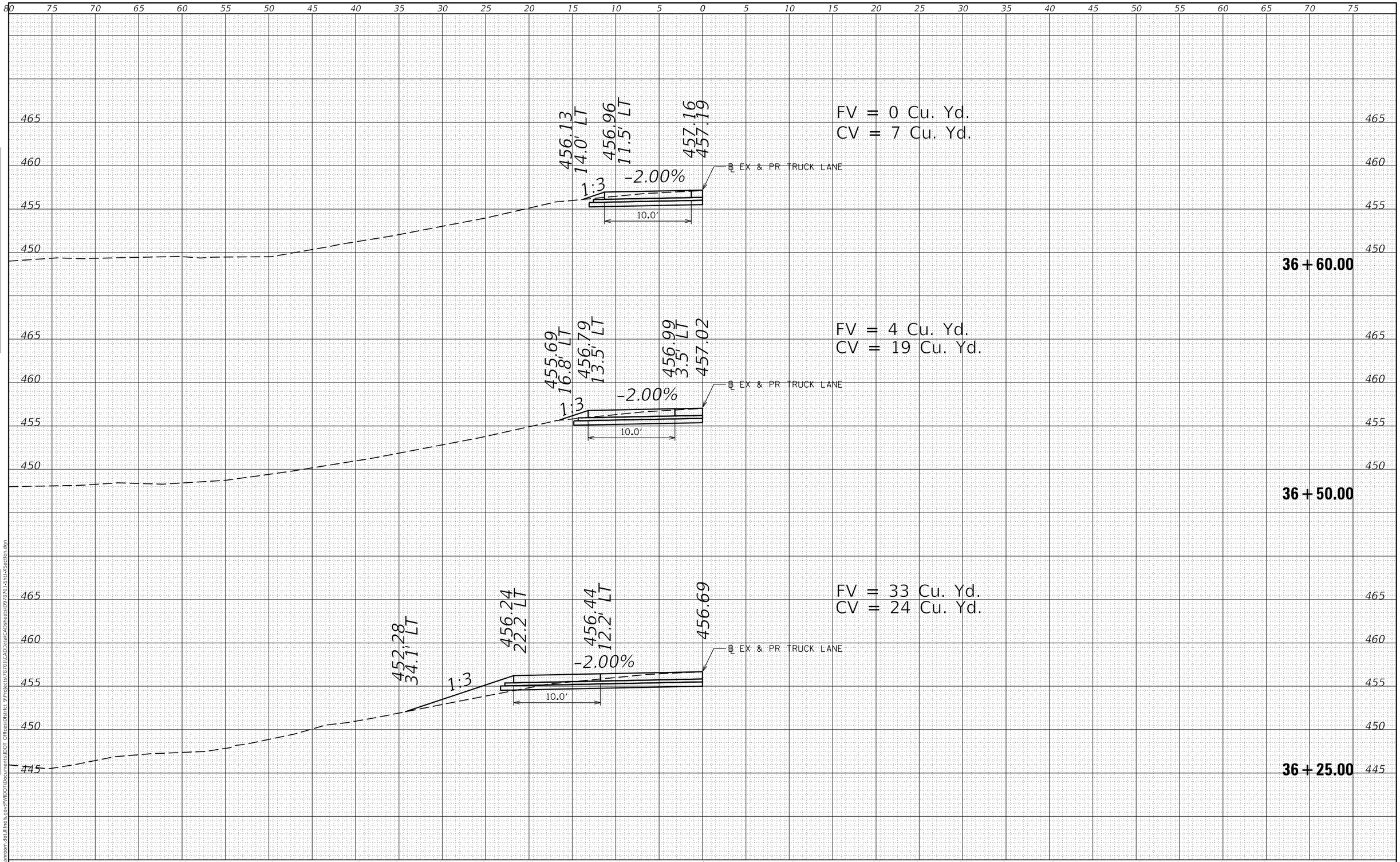
PLOT DATE = 4/22/2020	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOUTHBOUND
CROSS SECTIONS

SCALE: | SHEET OF SHEETS | STA. 35+70.00 TO STA. 36+00.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(91-3)RA-1	UNION	63	47
		CONTRACT NO. 78701		
		ILLINOIS FED. AID PROJECT		



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PLOT DATE = 4/22/2020	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOUTHBOUND
CROSS SECTIONS

SCALE: | SHEET OF SHEETS | STA. 36+25.00 TO STA. 36+60.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(91-3)RA-1	UNION	63	48

CONTRACT NO. 78701

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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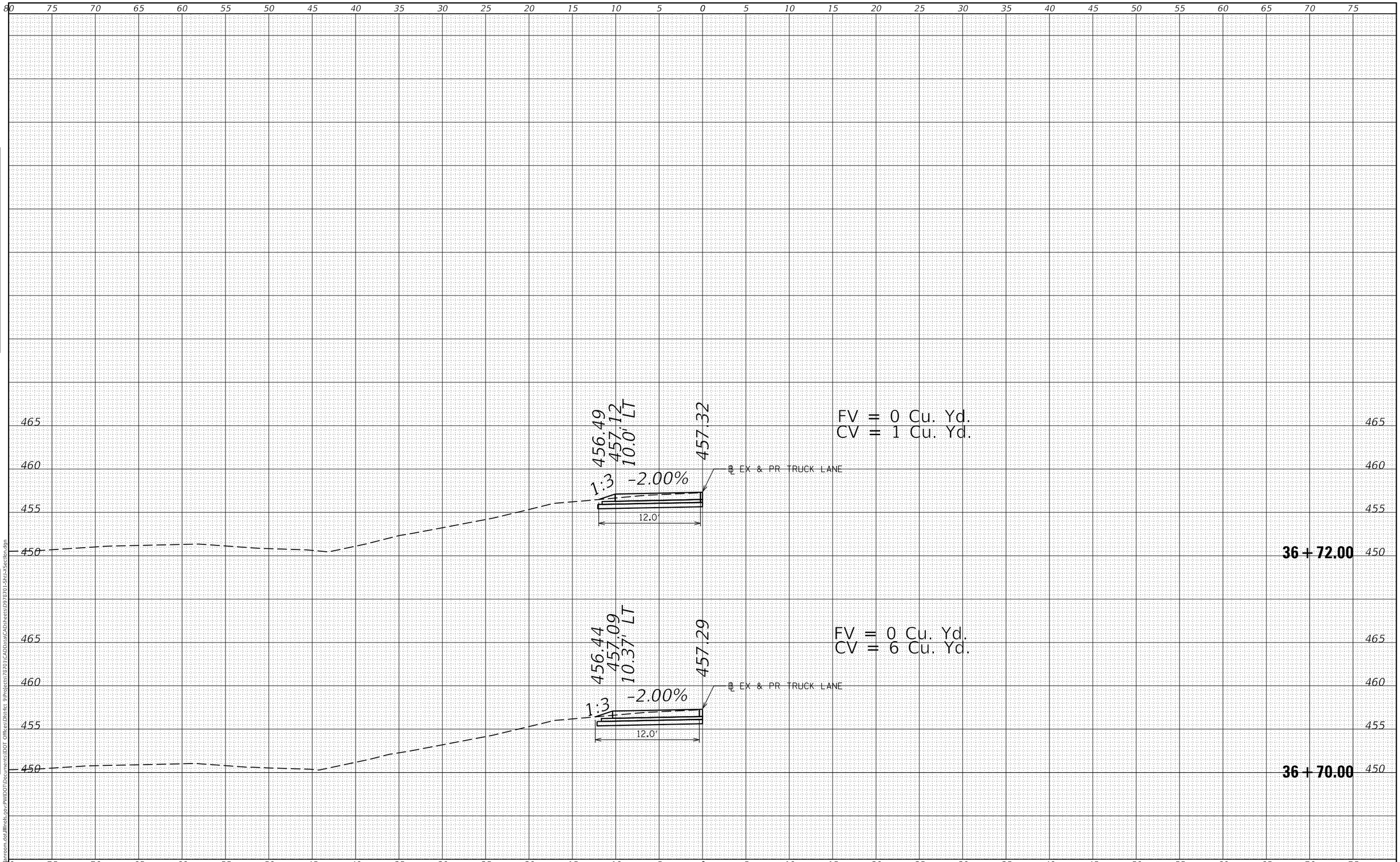

FINAL SURVEY		BY	DATE
NOTE BOOK	SURVEYED		
	PLOTTED		
	TEMPLATE		
	AREAS		
NO.	AREAS CHECKED		

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

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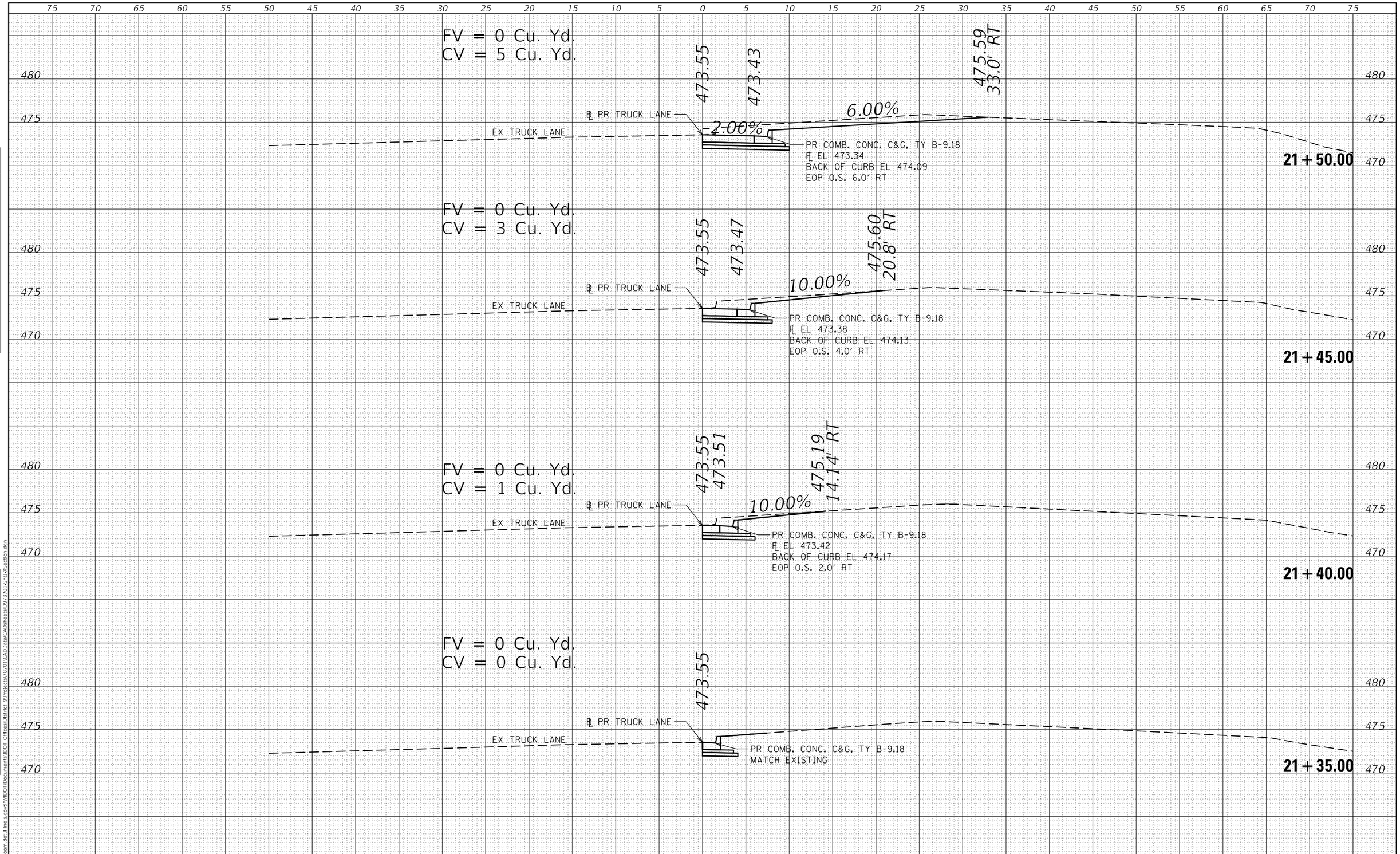

FINAL SURVEY		BY	DATE
NOTE BOOK	SURVEYED		
	PLOTTED		
	TEMPLATE		
	AREAS		
	AREAS CHECKED		
NO.			

ORIGINAL SURVEY		BY	DATE
NOTE BOOK	SURVEYED		
	PLOTTED		
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	AREAS		
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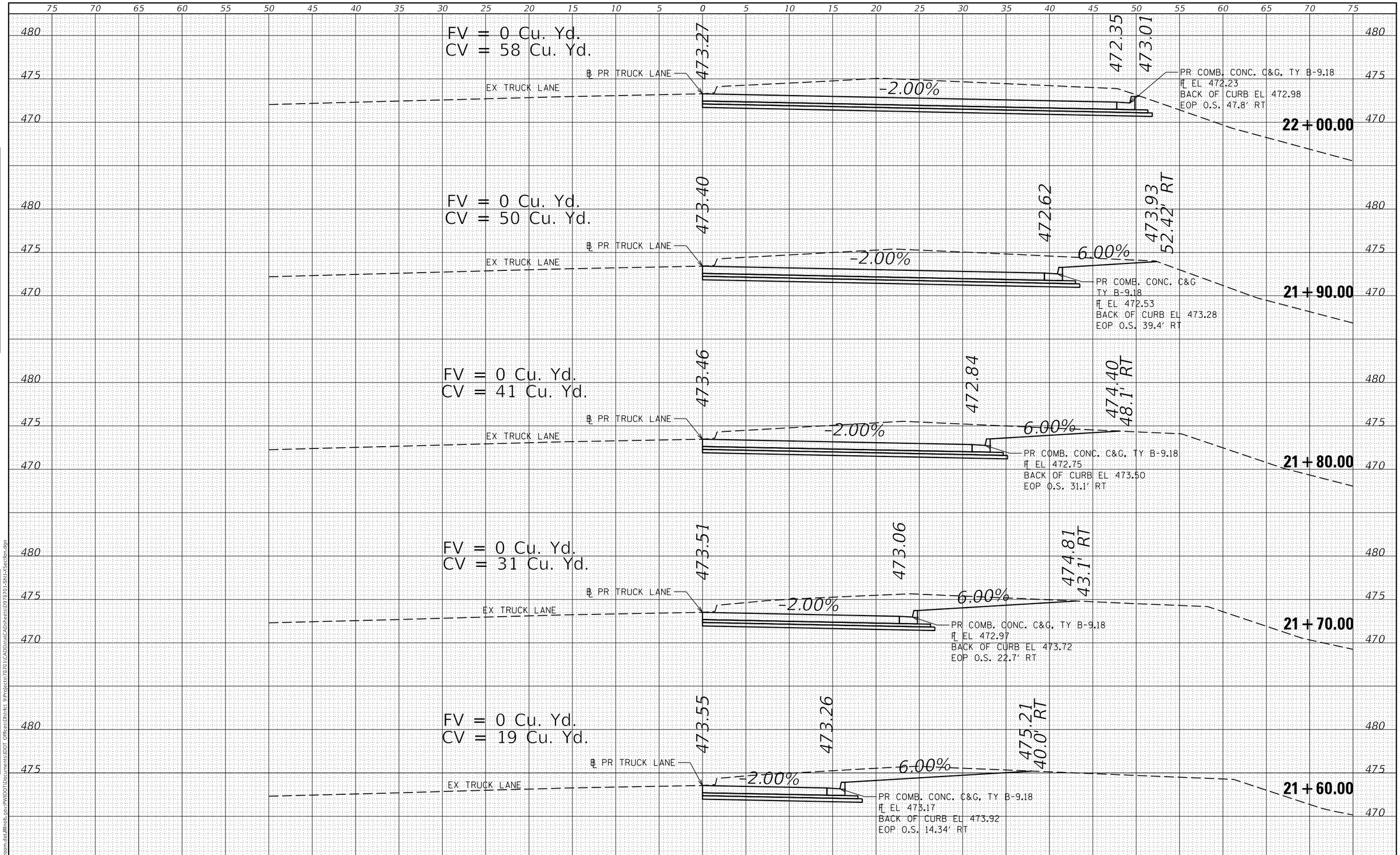
PLOT DATE = 4/22/2020	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

NORTHBOUND
CROSS SECTIONS

SCALE: | SHEET OF SHEETS | STA. 21+35.00 TO STA. 21+50.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(91-3)RA-1	UNION	63	50
		CONTRACT NO. 78701		
		ILLINOIS	FED. AID PROJECT	



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

ORIGINAL SURVEY	BY	DATE
SURVEYED		
PLOTTED		
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AREAS		
AREAS CHECKED		
NOTE BOOK		
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PLOT DATE = 4/22/2020	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

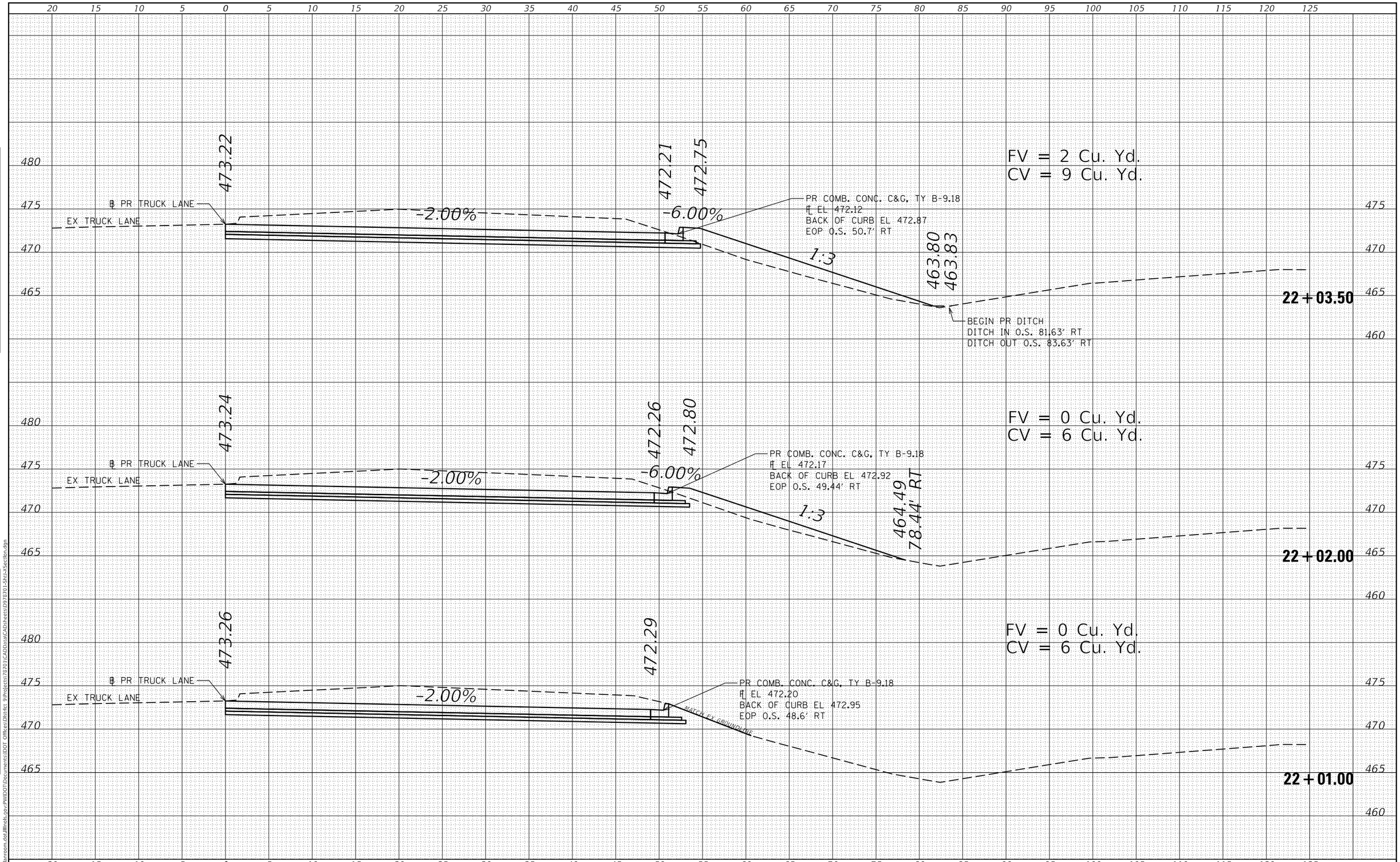
NORTHBOUND
CROSS SECTIONS

SCALE: | SHEET OF SHEETS | STA. 21+60.00 TO STA. 22+00.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(91-3)RA-1	UNION	63	51

CONTRACT NO. 78701

ILLINOIS | FED. AID PROJECT



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PLOT DATE = 4/22/2020	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

NORTHBOUND
CROSS SECTIONS

SCALE: SHEET OF SHEETS STA. 22+01.00 TO STA. 22+03.50

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(91-3)RA-1	UNION	63	52
		CONTRACT NO. 78701		
		ILLINOIS	FED. AID PROJECT	

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

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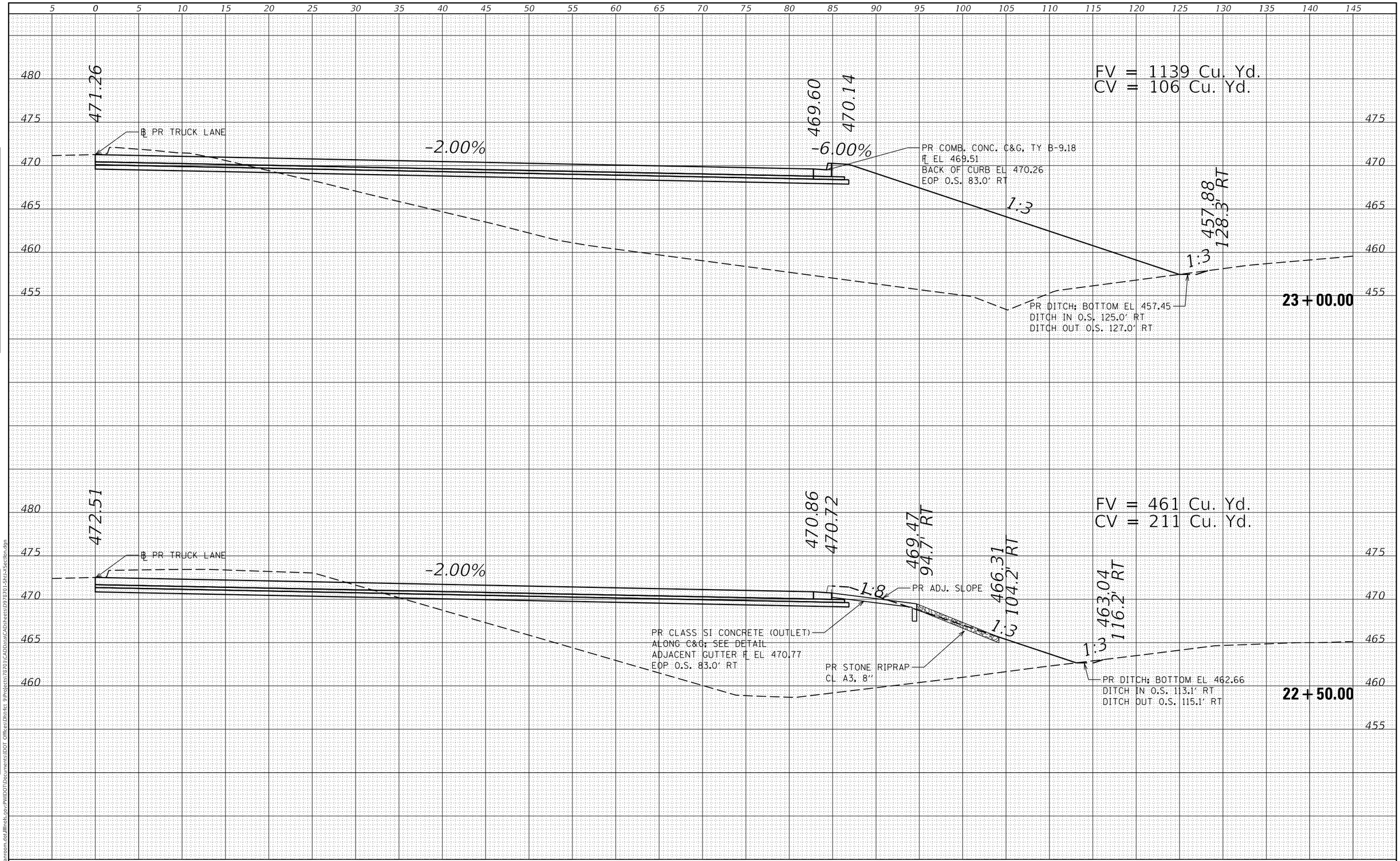

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

NORTHBOUND
CROSS SECTIONS

SCALE: | SHEET OF SHEETS | STA. 22+50.00 TO STA. 23+00.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(91-3)RA-1	UNION	63	53

CONTRACT NO. 78701

ILLINOIS | FED. AID PROJECT

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

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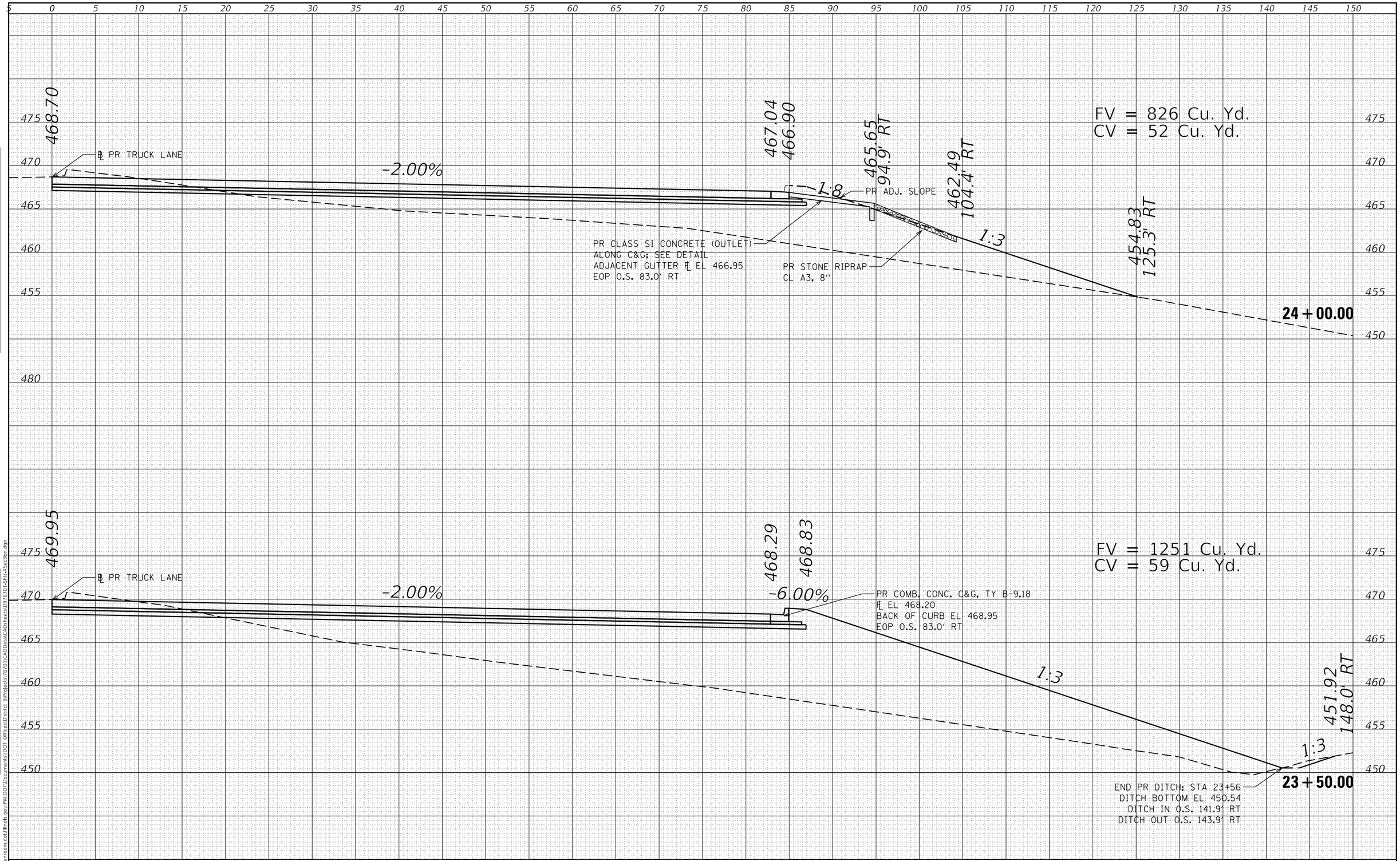

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PLOT DATE = 4/22/2020	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

NORTHBOUND
CROSS SECTIONS

SCALE: | SHEET OF SHEETS | STA. 23+50.00 TO STA. 24+00.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(91-3)RA-1	UNION	63	54

CONTRACT NO. 78701

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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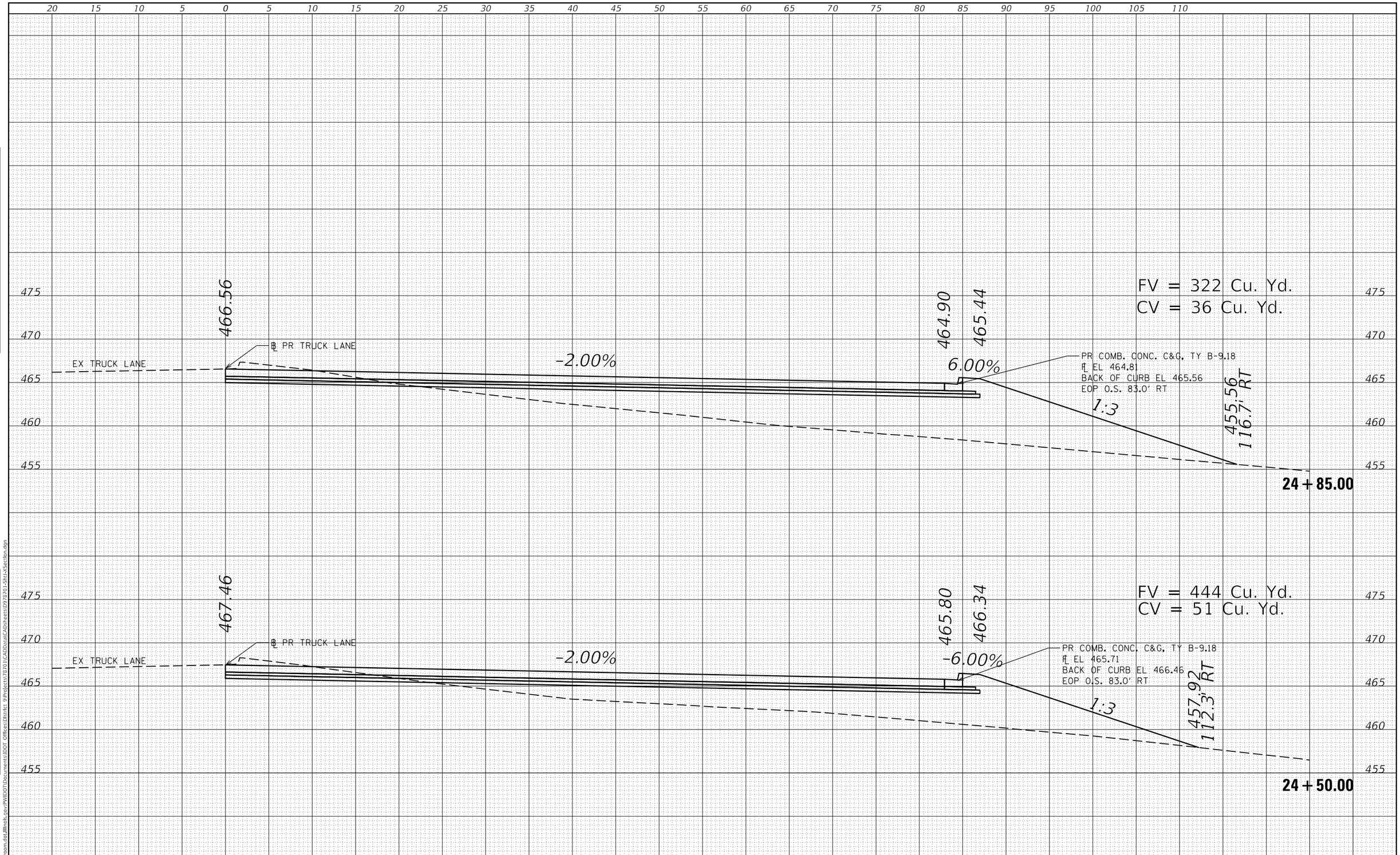

FINAL SURVEY		BY	DATE
NOTE BOOK	SURVEYED		
	PLOTTED		
	TEMPLATE		
	AREAS		
NO.	AREAS CHECKED		

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

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PLOT DATE = 4/22/2020	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

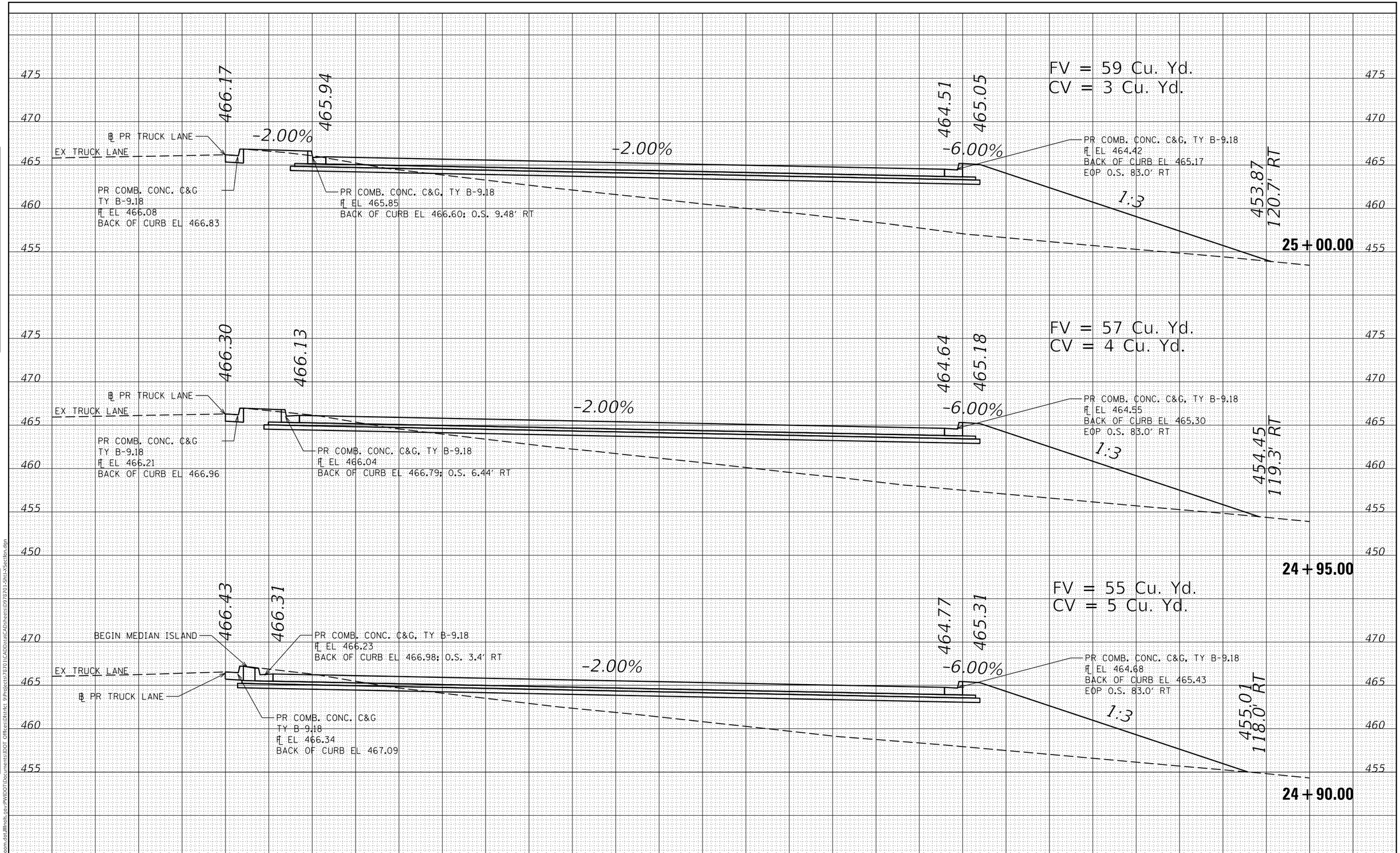
NORTHBOUND
CROSS SECTIONS

SCALE: SHEET OF SHEETS STA. 24+50.00 TO STA. 24+85.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(91-3)RA-1	UNION	63	55

CONTRACT NO. 78701

ILLINOIS FED. AID PROJECT



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

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

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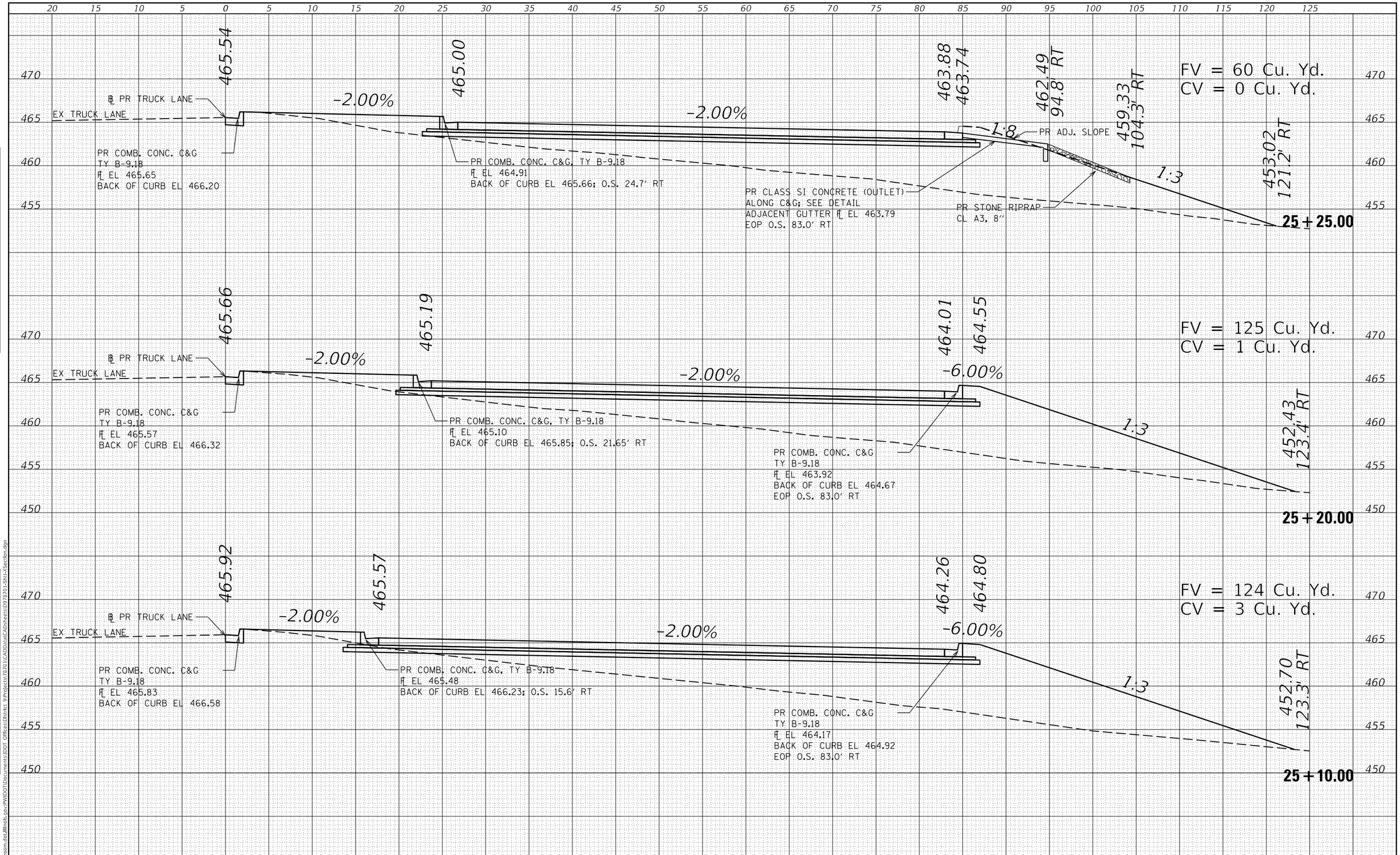
PLOT DATE = 4/22/2020	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

NORTHBOUND
CROSS SECTIONS

SCALE: | SHEET OF SHEETS | STA. 24+90.00 TO STA. 25+00.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(91-3)RA-1	UNION	63	56
		CONTRACT NO. 78701		
		ILLINOIS	FED. AID PROJECT	



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PLOT DATE = 4/22/2020	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

NORTHBOUND
CROSS SECTIONS

SCALE: SHEET OF SHEETS STA. 25+10.00 TO STA. 25+25.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(91-3)RA-1	UNION	63	57
		CONTRACT NO. 78701		
		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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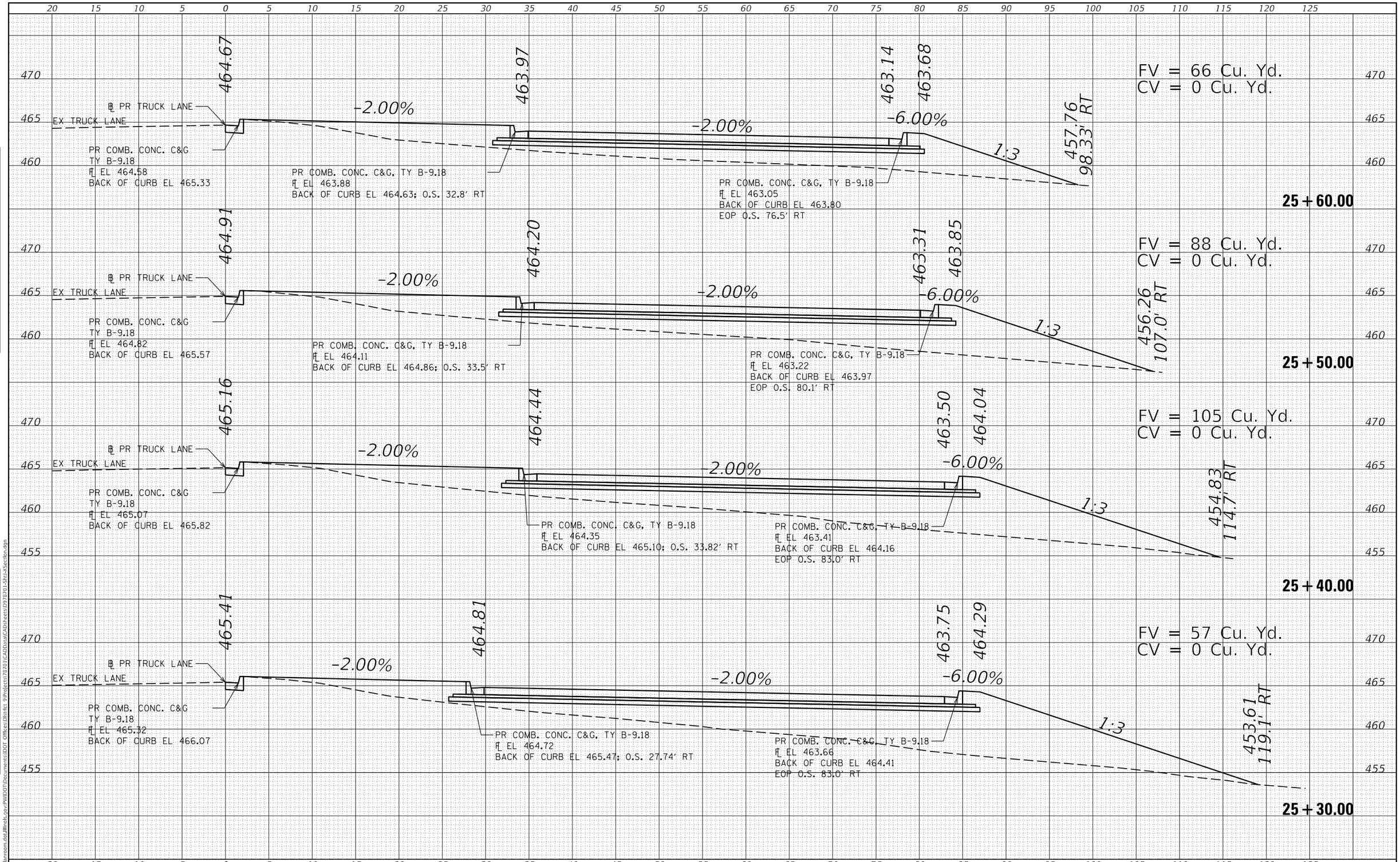

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PLOT DATE = 4/22/2020	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

NORTHBOUND
CROSS SECTIONS

SCALE: | SHEET OF SHEETS | STA. 25+30.00 TO STA. 25+60.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(91-3)RA-1	UNION	63	58

CONTRACT NO. 78701

ILLINOIS | FED. AID PROJECT

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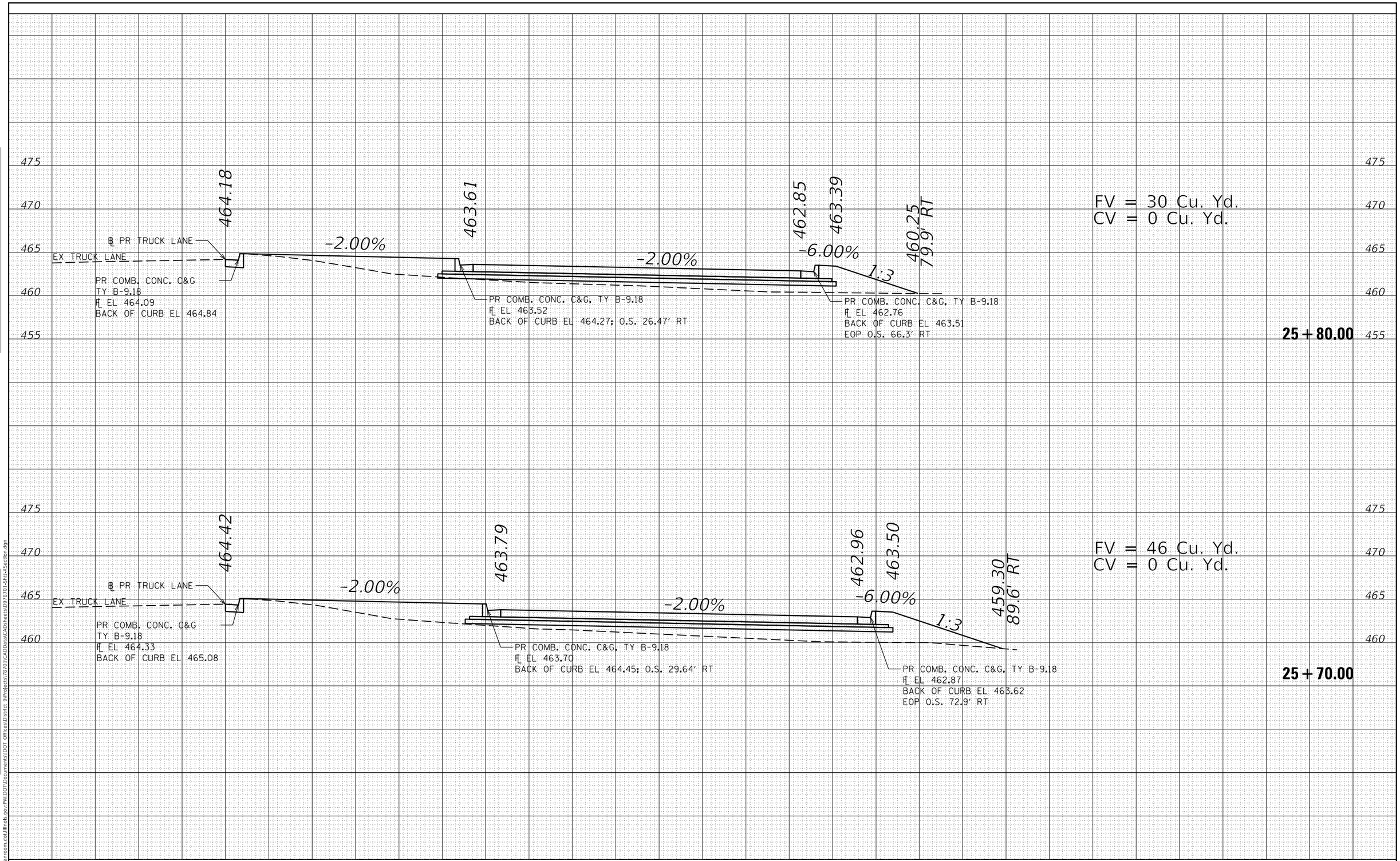
ORIGINAL SURVEY | NOTE BOOK NO. | SURVEYED | PLOTTED | TEMPLATE | AREAS | AREAS CHECKED | BY | DATE

FINAL 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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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

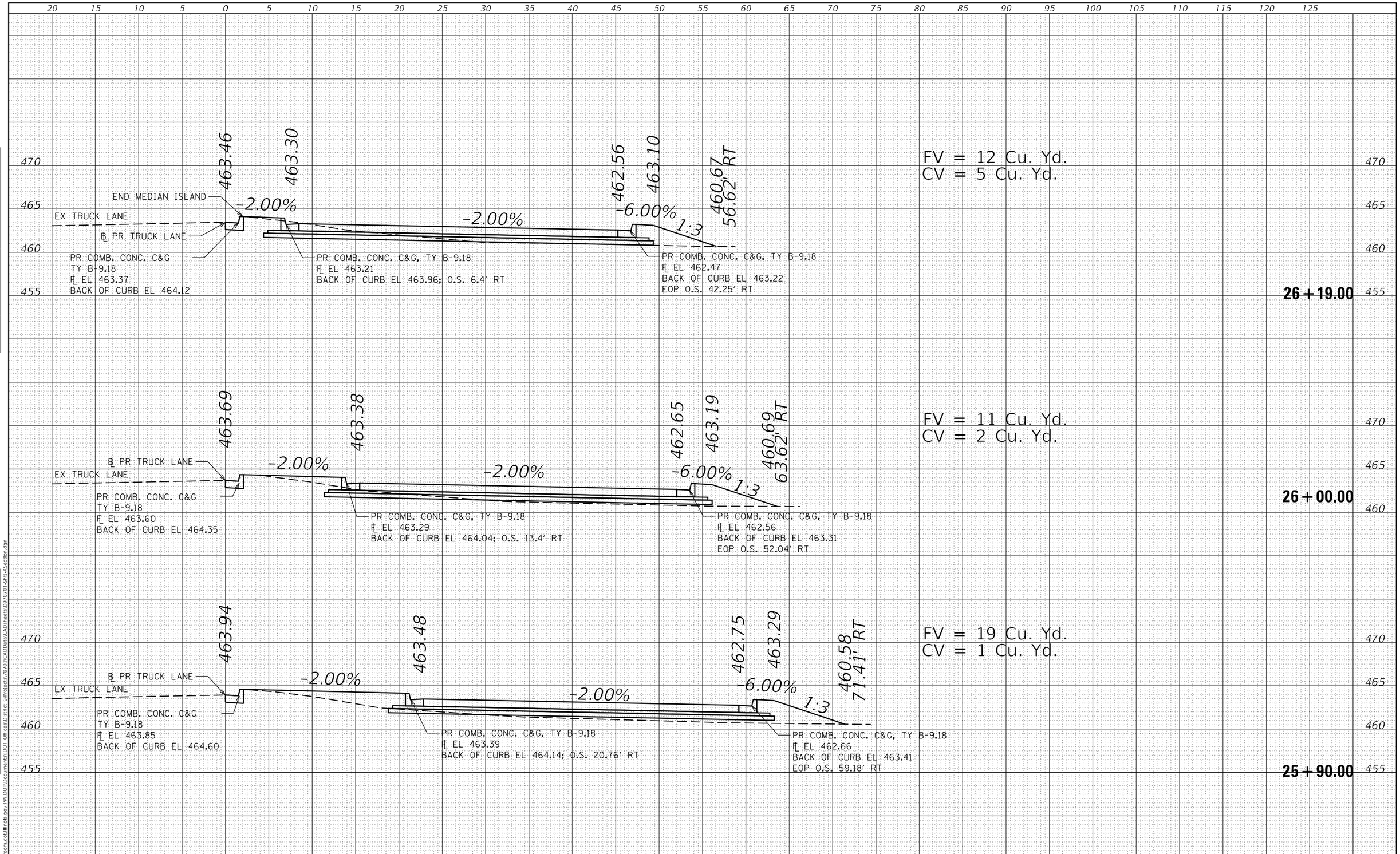
NORTHBOUND
CROSS SECTIONS

SCALE: SHEET OF SHEETS STA. 25+70.00 TO STA. 25+80.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(91-3)RA-1	UNION	63	59

CONTRACT NO. 78701

ILLINOIS FED. AID PROJECT



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PLOT DATE = 4/22/2020	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

NORTHBOUND
CROSS SECTIONS

SCALE: SHEET OF SHEETS STA. 25+90.00 TO STA. 26+19.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(91-3)RA-1	UNION	63	60
		CONTRACT NO. 78701		
		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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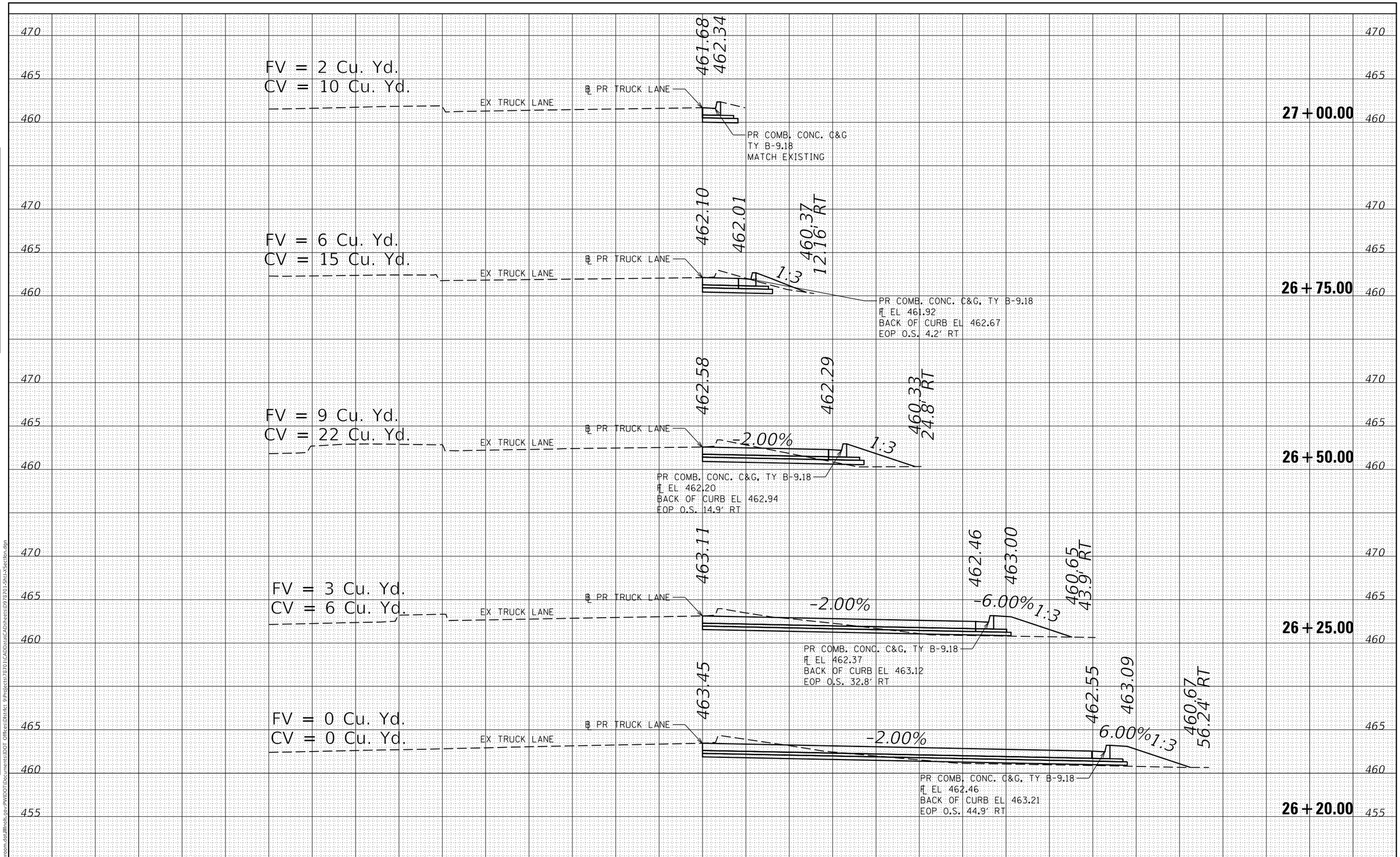

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PLOT DATE = 4/22/2020	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

NORTHBOUND
CROSS SECTIONS

SCALE: SHEET OF SHEETS STA. 26+20.00 TO STA. 27+00.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(91-3)RA-1	UNION	63	61

CONTRACT NO. 78701

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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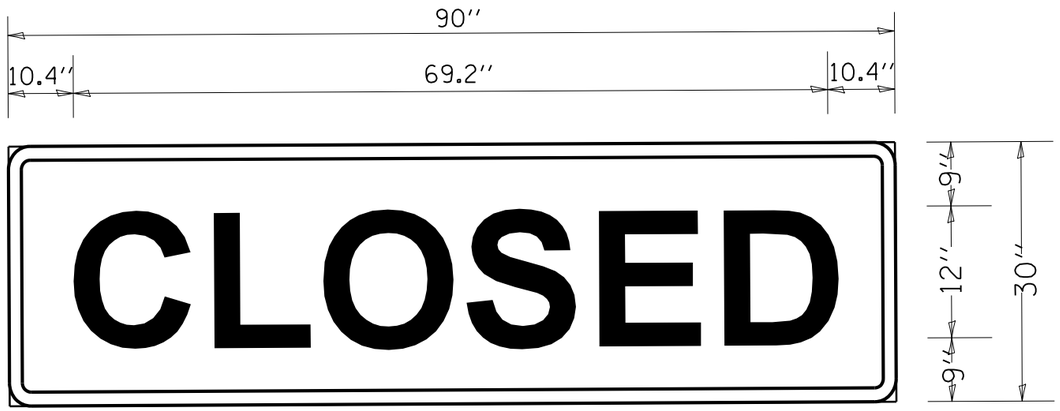


3.0'' RADIUS, 1.0'' BORDER, BLACK ON FLUORESCENT ORANGE;
''CLOSED'' E MOD 2K

	C		L		O		S		E		D	
10.4	9.8	2.6	8.9	1.4	10.1	2.5	9.7	3.0	8.9	2.5	9.8	10.4

TO BE SECURELY FASTENED USING RIVETS OVER REST AREA SIGNS LOCATED ON I-57:

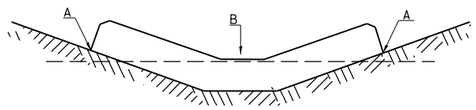
DURING NORTHBOUND CONSTRUCTION
- OVERHEAD SIGN STRUCTURE @ TRAIL OF TEARS REST AREA
- SIGN STRUCTURE LOCATED ON I-57, ½ MILE SOUTH OF REST AREA
- OVERHEAD SIGN STRUCTURE @ EXIT 30 (IL 146), 1¼ MILES SOUTH OF REST AREA

DURING SOUTHBOUND CONSTRUCTION
- OVERHEAD SIGN STRUCTURE @ TRAIL OF TEARS REST AREA
- SIGN STRUCTURE LOCATED ON I-57, ½ MILE NORTH OF REST AREA
- SIGN STRUCTURE LOCATED ON I-57, 1 MILE NORTH OF REST AREA

A CORRUGATED PLASTIC ROAD CLOSED SIGN SHALL BE USED ON A TYPE III BARRICADE LOCATED ON THE I-57 EXIT RAMP @ NORTHBOUND AND SOUTHBOUND TRAIL OF TEARS REST AREAS

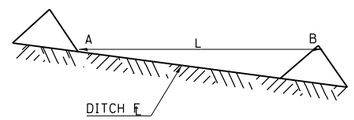
TEMPORARY DITCH CHECKS

PLACEMENT OF TEMPORARY
DITCH CHECK IN DRAINAGE WAY



POINTS A SHOULD BE HIGHER THAN POINT B

SPACING BETWEEN TEMPORARY DITCH CHECKS



L = THE DISTANCE SUCH THAT POINTS
A AND B ARE OF EQUAL ELEVATION

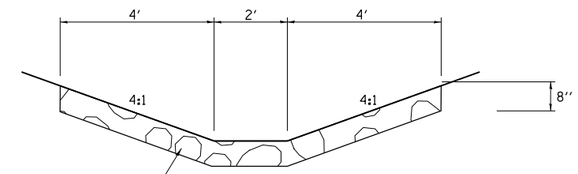
B = THE LOW POINT
IN CENTER OF CHECK

REVISIONS

DRAWN	9-01-99
REVISED	10-3-01
RESIZED	05-08-08
REVISED	05-04-10
REVIEWED	5-17-13

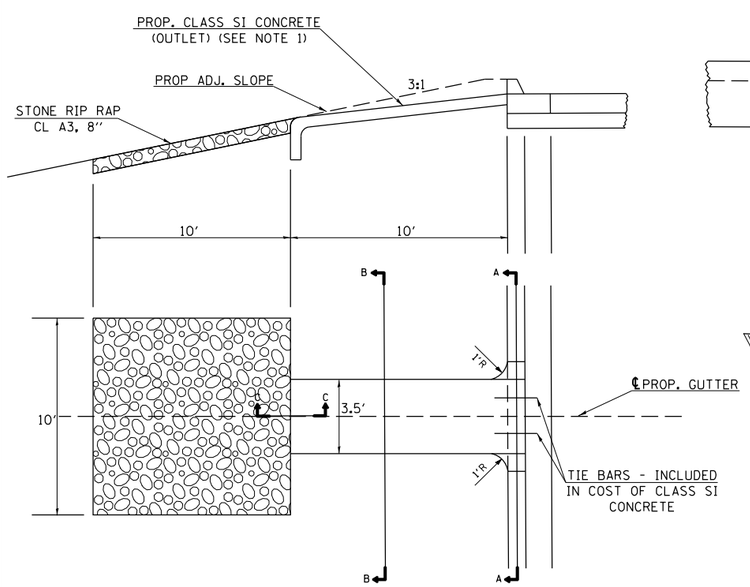
STD. 9-108

RIP RAP DITCH DETAIL



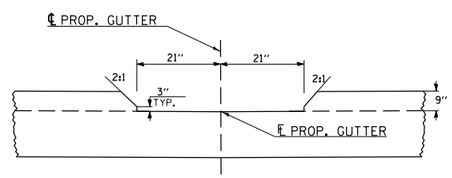
STONE RIP RAP CL A3 - TO BE USED AT
ALL CLASS SI CONCRETE (OUTLET) LOCATIONS

PROPOSED CLASS SI CONCRETE (OUTLET) DETAIL



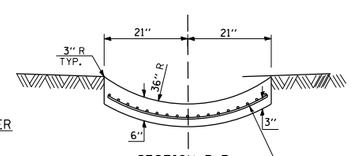
NOTE 1. PROP. OUTLET IS DESIGNED ACCORDING TO STD. 606201
(TYBE B GUTTER - INLET, OUTLET & ENTRANCE)

NOTE 2: WELDED WIRE FABRIC INCLUDED IN COST
OF CLASS SI CONCRETE (OUTLET) STD. 606201

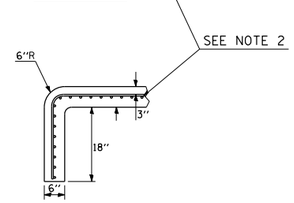


SECTION A-A

NOTE: CURB TRANSITIONS IN 1' FROM
FLAT FLOWLINE TO CIRCULAR FLOWLINE
BETWEEN SECTIONS A-A AND B-B

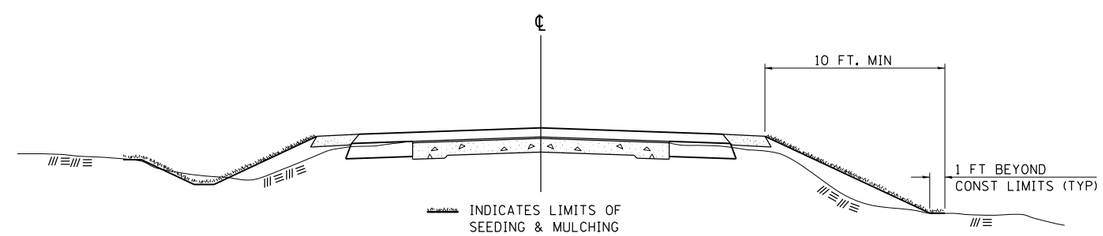


SECTION B-B



SECTION C-C

SEEDING & MULCHING



GENERAL NOTES

IN GENERAL, ALL EARTH SURFACES DISTURBED DURING CONSTRUCTION OPERATIONS SHALL BE SEEDED AND MULCHED UPON COMPLETION OF ALL GRADING OPERATIONS.

ON DETOUR ROADS, SLOPES SHALL BE SEEDED IMMEDIATELY UPON COMPLETION OF ANY GIVEN STAGE GRADING. TEMPORARY SEEDING SHALL BE CLASS 7.

FERTILIZER NUTRIENTS SHALL BE APPLIED TO ALL SEEDED AREAS.
LIMESTONE SHALL BE APPLIED TO ALL AREAS OF FINAL SEEDING.

THE RATES OF APPLICATION OF FERTILIZER, MULCH AND LIMESTONE SHALL BE AS SPECIFIED IN THE SPECIAL PROVISIONS FOR ROAD AND BRIDGE CONSTRUCTION.

SECTIONS 250 AND 251 OF THE STANDARD SPECIFICATIONS SHALL GOVERN THIS WORK EXCEPT AS SPECIFIED HEREIN OR AS NOTED IN THE SPECIAL PROVISIONS.

REVISIONS

REDRAWN	2-15-89
REVISED	8-15-94
REVISED	6-3-99
REVISED	3-27-08
REVISED	5-16-13

STD. 9-12

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PLOT DATE = 4/22/2020	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DETAILS: DRAINAGE & SEEDING/MULCHING

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(91-3)RA-1	UNION	63	63

CONTRACT NO. 78701

ILLINOIS | FED. AID PROJECT