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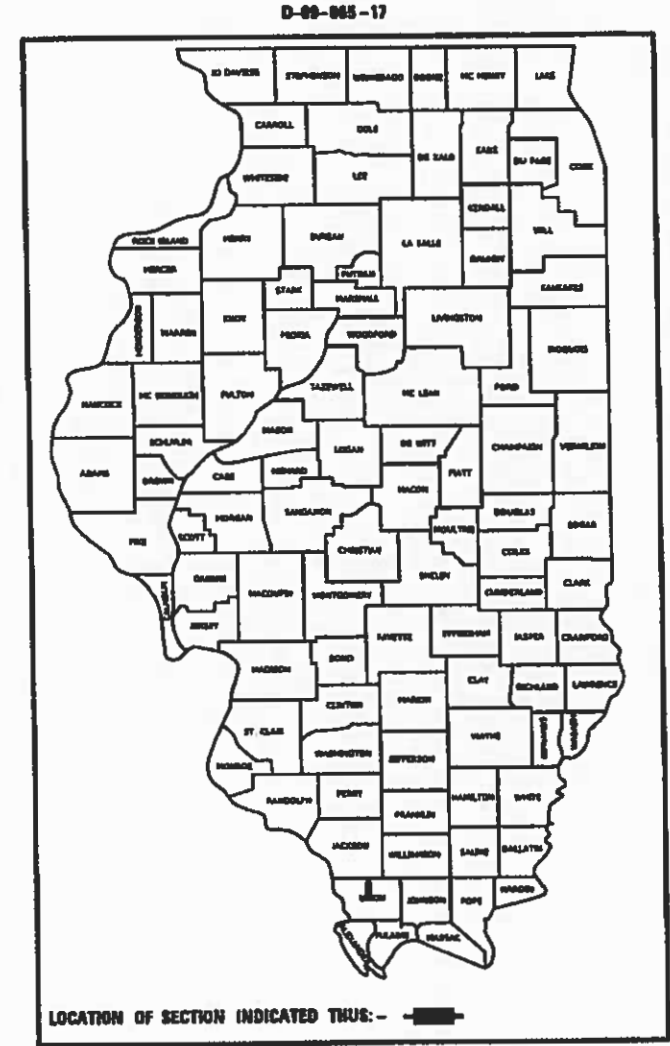
F.A.S. ATE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1909	22SLP-1	UNION	54	1
		ILLINOIS	CONTRACT NO. 78611	

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

**PROPOSED  
HIGHWAY PLANS**

FAS ROUTE 1909 (IL 127)  
SECTION 22SLP-1  
PROJECT STP-PTZ1(126)  
SLOPE FAILURE  
UNION COUNTY

C-99-065-17



FOR INDEX OF SHEETS, SEE SHEET NO. 3  
FOR SUMMARY OF QUANTITIES, SEE SHEET NO. 4-7

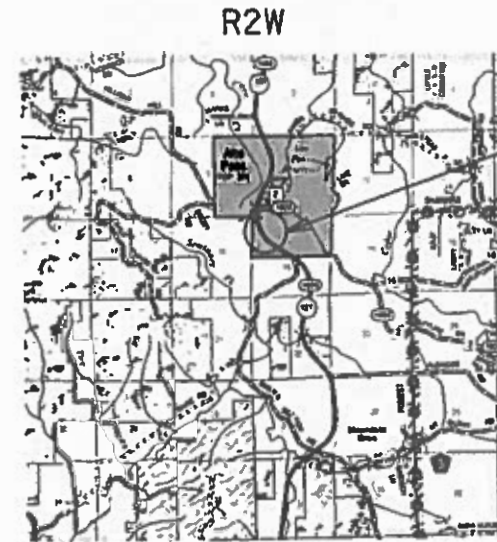
**TRAFFIC DATA**

TRAFFIC DATA IL 127 UNION COUNTY

IL-127 SOUTH OF ALTO PASS			
	2015	2017	2037
PV =	1,400	1,430	1,745
SU =	60	60	75
MU =	40	40	50
ADT =	1,500	1,530	1,870

**TOWNSHIPS**

ALTO PASS



DESIGN DESIGNATION :  
COORDINATE SYSTEM : NAD 1983 ILLINOIS WEST  
POSTED SPEED : 55 MPH

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

PROJECT ENGINEER VALERIE ROLLA  
PROJECT DESIGNER ELISE KNOP

CONTRACT NO. 78611

GROSS LENGTH = 825 FT. = 0.16 MILES  
NET LENGTH = 825 FT. = 0.16 MILES

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SUBMITTED Oct 18 20 19  
Keith Roberts  
REGION FIVE ENGINEER

Dec 6, 2019  
Scott A. Etk  
ENGINEER OF DESIGN AND ENVIRONMENT

Dec 6, 2019  
Paul P. [Signature]  
DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

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OF THE STATE OF ILLINOIS**

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Prepared By: Charles Stein  
DISTRICT STUDIES & PLANS ENGINEER

Examined By: Nancy Lee  
DISTRICT LAND ACQUISITION ENGINEER

Examined By: Connie Nuh  
DISTRICT PROGRAM DEVELOPMENT ENGINEER

Examined By: Karl Noy  
DISTRICT OPERATIONS ENGINEER

Examined By: KPR  
DISTRICT PROJECT IMPLEMENTATION ENGINEER

Examined By: Douglas J. Tuller  
DISTRICT CONSTRUCTION ENGINEER

Examined By: [Signature]  
DISTRICT MATERIALS ENGINEER

USER NAME = knapen	DESIGNED -	REVISED -
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PLOT DATE = 10/15/2019	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**SIGNATURE SHEET**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.S. RTE. 1909	SECTION 225LP-1	COUNTY UNION	TOTAL SHEETS 64	SHEET NO. 2
ILLINOIS FED. AID PROJECT			CONTRACT NO. 78611	

# INDEX OF SHEETS

SHEET NO	DESCRIPTION
1	COVER SHEET
2	SIGNATURE SHEET
3	INDEX OF SHEETS, HIGHWAY STANDARDS, GENERAL NOTES, & COMMITMENTS
4-7	SUMMARY OF QUANTITIES
8	TYPICAL SECTIONS: IL 127
9-11	SCHEDULES
12-14	PLAN/PROFILE SHEETS
15	REMOVAL SHEET
16	TRAFFIC CONTROL STAGING
17-20	CONSTRUCTION STAGING
21	EROSION CONTROL
22-42	STRUCTURE PLANS & BORING LOGS
43-44	DETAILS
45-54	CROSS SECTIONS

# HIGHWAY STANDARDS

- 000001-07-STANDARDSYMBOLSABBREVIATIONS&PATTERNS
- 001001-02-AREASOFREINFREBARS
- 001006-DECIMALOFINCH&FOOT
- 280001-07-TEMPEROSIONCNTRLSYSTEMS
- 406201-01-MAILBOXTURNOUT
- 420001-09-PAVEMENTJOINTS
- 420101-06-24FTJOINTEDPCCPVM
- 483001-05-PCCSHLD
- 542401-03-METALFLAREDENDSECTFORPIPECULV
- 601001-05-PIPEUNDERDRAINS
- 606201-04-TYPEBGUT-INLOUTL&ENTR
- 630001-12-STEELPLATEBEAMGRDRAIL
- 630301-09-SHLDWIDENFORTYPE1GRDRAILTERMS
- 635001-02-DELINEATORS
- 701001-02-OFFRDOP-2L2W-15FTMINFROMEOP
- 701006-05-OFFRDOP-2L2W-15FTTTOEOP
- 701011-04-OFFRDMOVINGOP-2L2W-DAYONLY
- 701311-03-LNCLOSURE2L2W-MOVINGOPDAYONLY
- 701321-18-LNCLOSURE2L2W-BRIDGEREPAIRWITH BARRIER
- 701901-08-TRAF CNTRLDEVICES
- 704001-08-TEMPCONCBARRIER
- 780001-05-TYPICALPVMTRKINGS
- 781001-04-TYPICALAPPRAISEDREFLCPVMTMRKRS
- 782006-01-GUARDRAILANDBARRIERWALLREFLECTORMOUNTINGDEATILS

# 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.

THE ALGEBRAIC DIFFERENCE BETWEEN THE PAVEMENT AND SHOULDER SLOPES SHALL NOT EXCEED 8%. THE SHOULDER ON THE OUTSIDE OF SUPERELEVATED CURVES SHALL BE FLATTENED ACCORDINGLY.

AT ALL LOCATIONS WHERE THE PROPOSED HOT MIX ASPHALT OR CONCRETE PAVEMENT JOINS AN EXISTING HOT MIX ASPHALT OR CONCRETE PAVEMENT, A FULL DEPTH SAWED JOINT SHALL BE CONSTRUCTED. THE COST OF THIS JOINT WILL BE INCLUDED IN THE COST OF THE TYPE OF PAVEMENT BEING CONSTRUCTED.

THE CONTRACTOR SHALL STAMP STATIONING IN THE PROPOSED PCC PAVEMENT SURFACE AT 300 FT INTERVALS ON ALTERNATING SIDES OF THE PAVEMENT AND AS DIRECTED BY THE ENGINEER. THE STATION SYMBOL STAMPS USED SHALL BE FURNISHED BY THE CONTRACTOR. THEY SHALL BE 5 1/2 IN. TALL, OF A DESIGN APPROVED BY THE ENGINEER, AND SHALL REMAIN THE PROPERTY OF THE CONTRACTOR.

ANY TIME THE CONCRETE BARRIER IS NOT IN THE PROPER POSITION, FLAGGERS SHALL BE IN PLACE TO CONTROL TRAFFIC. THE TEMPORARY TRAFFIC SIGNALS SHALL BE SET TO FLASH ALL RED.

COMMITMENTS: NONE

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	DATE -	REVISED -		SCALE:	SHEET OF SHEETS	STA. TO STA.					

# SUMMARY OF QUANTITIES

COUNTY:	UNION COUNTY
ROUTE:	FAS 1909 ( IL 127)
FUNDING:	80%FEDERAL/20%STATE
LOCATION:	RURAL

CODE NUMBER	ITEM DESCRIPTION	UNIT	TOTAL QUANTITY	0004
20200100	EARTH EXCAVATION	CU YD	3,831	3,831
20400800	FURNISHED EXCAVATION	CU YD	850	850
25000210	SEEDING, CLASS 2A	ACRE	0.75	0.75
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	68	68
25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	68	68
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	68	68
25100115	MULCH, METHOD 2	ACRE	0.75	0.75
25100630	EROSION CONTROL BLANKET	SQ YD	1,545	1,545
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	350	350
28000400	PERIMETER EROSION BARRIER	FOOT	590	590
28000500	INLET AND PIPE PROTECTION	EACH	1	1
31100910	SUBBASE GRANULAR MATERIAL, TYPE A 12"	SQ YD	2,308	2,308
31102000	SUBBASE GRANULAR MATERIAL, TYPE C	CU YD	53	53
31200100	STABILIZED SUBBASE 4"	SQ YD	1,650	1,650

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 DATE: 10/21/2019

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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**SUMMARY OF QUANTITIES**

SCALE:      SHEET      OF      SHEETS      STA.      TO      STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1909	225LP-1	UNION	54	4
CONTRACT NO. 78611				
ILLINOIS FED. AID PROJECT				

# SUMMARY OF QUANTITIES - CONT

COUNTY:	UNION COUNTY
ROUTE:	FAS 1909 (IL 127)
FUNDING:	80% FEDERAL / 20% STATE
LOCATION:	RURAL

CODE NUMBER	ITEM DESCRIPTION	UNIT	TOTAL QUANTITY	UNION COUNTY
				0004
40200500	AGGREGATE SURFACE COURSE, TYPE A 6"	SQ YD	119	119
42000411	PORTLAND CEMENT CONCRETE PAVEMENT 9 1/2" (JOINTED)	SQ YD	1,467	1,467
44000100	PAVEMENT REMOVAL	SQ YD	1,778	1,778
44000200	DRIVEWAY PAVEMENT REMOVAL	SQ YD	17	17
44000400	GUTTER REMOVAL	FOOT	589	589
48300410	PORTLAND CEMENT CONCRETE SHOULDERS 9 1/2"	SQ YD	658	658
50105220	PIPE CULVERT REMOVAL	FOOT	212	212
50300225	CONCRETE STRUCTURES	CU YD	61.2	61.2
50500405	FURNISHING AND ERECTING STRUCTURAL STEEL	POUND	63,156	63,156
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	7,830	7,830
* 52200105	FURNISHING SOLDIER PILES (W SECTION)	FOOT	2,651	2,651
* 52200200	DRILLING AND SETTING SOLDIER PILES (IN SOIL)	CU FT	10,430	10,430
* 52200205	DRILLING AND SETTING SOLDIER PILES (IN ROCK)	CU FT	2,584	2,584
52200255	TREATED TIMBER LAGGING	SQ FT	7,772	7,772

\* SPECIALTY ITEM

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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**SUMMARY OF QUANTITIES**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1909	225LP-1	UNION	54	5
			CONTRACT NO. 78611	
ILLINOIS FED. AID PROJECT				

# SUMMARY OF QUANTITIES - CONT

COUNTY:	UNION COUNTY
ROUTE:	FAS 1909 (IL 127)
FUNDING:	80% FEDERAL / 20% STATE
LOCATION:	RURAL
TOTAL QUANTITY	0004

CODE NUMBER	ITEM DESCRIPTION	UNIT	TOTAL QUANTITY	
542D1063	PIPE CULVERTS, CLASS D, TYPE 2 18"	FOOT	53	53
54262718	METAL FLARED END SECTIONS 18"	EACH	2	2
54390210	INSERTION CULVERT LINER 30"	FOOT	58	58
59100100	GEOCOMPOSITE WALL DRAIN	SQ YD	567	567
* 63000001	STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS	FOOT	725	725
* 63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	2	2
63200310	GUARDRAIL REMOVAL	FOOT	152	152
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	20	20
67100100	MOBILIZATION	L SUM	1	1
70106500	TEMPORARY BRIDGE TRAFFIC SIGNALS	EACH	1	1
70106700	TEMPORARY RUMBLE STRIPS	EACH	6	6
70107025	CHANGEABLE MESSAGE SIGN	CAL DA	70	70
70400100	TEMPORARY CONCRETE BARRIER	FOOT	300	300
70600260	IMPACT ATTENUATORS, TEMPORARY (FULLY REDIRECTIVE, NARROW), TEST LEVEL 3	EACH	4	4

\* SPECIALTY ITEM

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# SUMMARY OF QUANTITIES - CONT

COUNTY:	UNION COUNTY
ROUTE:	FAS 1909 ( IL 127)
FUNDING:	80% FEDERAL / 20% STATE
LOCATION:	RURAL
TOTAL QUANTITY	0004

CODE NUMBER	ITEM DESCRIPTION	UNIT	TOTAL QUANTITY	UNION COUNTY
* 72501000	TERMINAL MARKER - DIRECT APPLIED	EACH	2	2
* 78001110	PAINT PAVEMENT MARKING - LINE 4"	FOOT	2,200	2,200
* 78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	7	7
* 78200005	GUARDRAIL REFLECTORS, TYPE A	EACH	12	12
* 78200011	BARRIER WALL REFLECTORS, TYPE C	EACH	48	48
* X0321809	PERMANENT GROUND ANCHOR	EACH	60	60
X0800003	COARSE AGGREGATE BACKFILL (SPECIAL)	CU YD	2,535	2,535
X6063000	CONCRETE GUTTER, TYPE B (SPECIAL)	FOOT	550	550
X7010202	TRAFFIC CONTROL AND PROTECTION, STANDARD 701321 (SPECIAL)	EACH	1	1
Z0046304	PIPE UNDERDRAINS FOR STRUCTURES 4"	FOOT	775	775
X1200235	REMOVE EXISTING RIPRAP	CU YD	127	127
Z0076600	TRAINEES	HOUR	500	500
Z0076604	TRAINEES TRAINING PROGRAM GRADUATE	HOUR	500	500

\* SPECIALTY ITEM

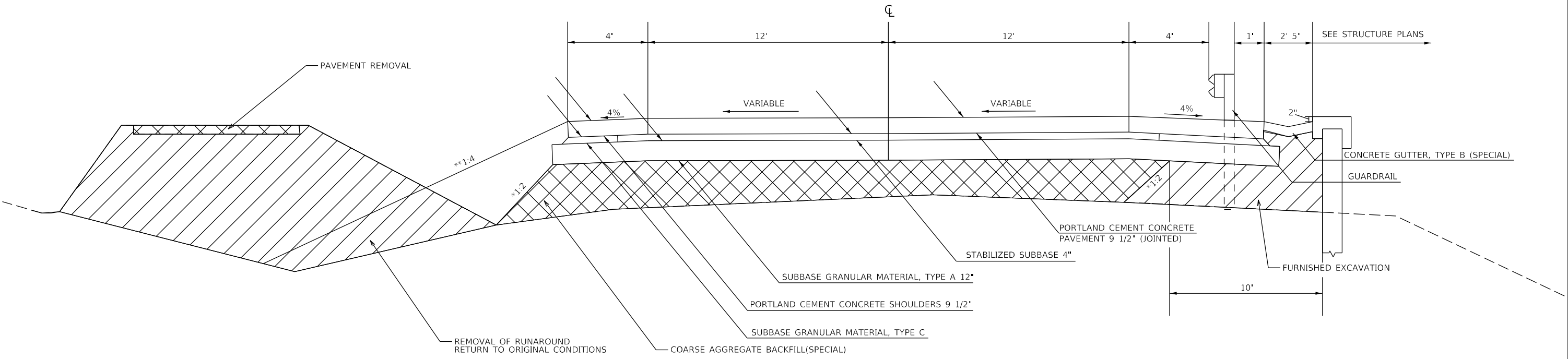
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IL 127 TYPICAL SECTION (LOOKING SOUTH)



NOTES: \* SLOPE IS A 1:2 FROM SUBBASE GRANULAR MATERIAL, TY A 12"  
 \*\* IS A 1:4 SLOPE FROM EDGE OF SHOULDER TO TO THE ORGINAL DITCH

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PLOT DATE = 10/21/2019	DATE -	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

<b>TYPICAL SECTION</b>			
SCALE:	SHEET	OF SHEETS	STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1909	225LP-1	UNION	54	8
CONTRACT NO. 78611				
ILLINOIS FED. AID PROJECT				



# EARTHWORK SCHEDULE

	STATION	TO	STATION	EARTH EXCAVATION	AVE. SHRINKAGE FACTOR	EARTH EXCAVATION (ADJUSTED)	EMBANKMENT	EARTHWORK BALANCE WASTE(+) SHORTAGE(-)	FURNISHED EXCAVATION	REMOVE EXISTING RIPRAP	NOTES
				CU YD		CU YD	CU YD	CU YD	CU YD	CU YD	
STAGE 1	364+00	TO	369+50	946	18	776	0	776		75	THIS IS FOR THE PLATFORM TO DRILL THE PILES FOR THE WALL
STAGE 2	364+00	TO	369+50						850		THIS IS THE FILL 10' BEHIND THE WALL UNDER THE SUBBASE GRANULAR MATERIAL
STAGE 3	364+00	TO	369+50	1951	18	1600	0	1600		52	THIS IS FOR THE PLATFORM NEEDED TO INSTALL THE TIMBER LAGGING
STAGE 4	364+00	TO	369+50	934	18	766	934	-168			THIS IS THE EARTH EXCAVATION FOR THE UNDERDRAIN OUTLET SPECIALS
STAGE 5	364+00	TO	369+50	0			1316	-1316			THIS IS THE FINAL FILL ON THE OUTSIDE OF THE WALL
STAGE 8	364+00	TO	369+50	0			856	-856			THIS IS THE FINAL FILL ON THE LT SIDE OF THE CL
<b>IMPROVEMENT TOTALS</b>				<b>3831</b>					<b>850</b>	<b>127</b>	

	STATION	TO	STATION	COARSE AGG BACKFILL (SPECIAL)	AVE. SHRINKAGE FACTOR	COARSE AGG BACKFILL (SPECIAL) ADJUSTED	EMBANKMENT	COARSE AGG BACKFILL (SPECIAL) BALANCE WASTE(+) SHORTAGE(-)	FURNISHED EXCAVATION	REMOVE EXISTING RIPRAP	NOTES
				CU YD		CU YD	CU YD	CU YD	CU YD	CU YD	
STAGE 6	364+00		369+75	2535	10	2282	0	2282			THIS IS THE REMOVAL OF THE AGGREGATE UNDER THE RUNAROUND ROAD. THIS MATERIAL WILL BE USED UNDER THE NEW PAVEMENT
STAGE 7	364+00		369+50	0			582	-582			THIS IS THE FILL NEEDED UNDER THE NEW PAVEMENT UNDER THE SUBBASE GRANULAR MATERIAL.
<b>IMPROVEMENT TOTALS</b>				<b>2535</b>							

NOTE: ALL EARTH EXCAVATION IN STAGE 1 AND STAGE 3 SHALL BE STOCKPILED AND USED ON LATER STAGES.

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PLOT DATE = 10/21/2019	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>SCHEDULE</b>			
SCALE:	SHEET	OF	SHEETS
	STA.	TO	STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1909	225LP-1	UNION	54	9
CONTRACT NO. 78611				
ILLINOIS FED. AID PROJECT				

## REMOVAL SCHEDULE

				GUTTER REMOVAL	DRIVEWAY PAV' T REMOVAL	PAVEMENT REMOVAL	GUARDRAIL REMOVAL	PIPE CULVERT REMOVAL	NOTE
STA	TO	STA	SIDE	FOOT	SQ YD	SQ YD	FOOT	FOOT	
364+75	TO	368+14	LT	339					LT SIDE OF RUNAROUND
365+30	TO	367+81	LT	250					RT SIDE OF RUNAROUND
		368+30			17			29	DRIVEWAY
364+00	TO	365+52	RT				152		
363+12	TO	370+17							SIGNS ALONG THE RUNAROUND
364+00	TO	365+52	LT			419		183	IL 127 PAVEMENT
368+12	TO	369+50				388			IL 127 PAVEMENT
363+88	TO	370+17				971			RUNAROUND PAVEMENT
<b>TOTALS=</b>				<b>589</b>	<b>17</b>	<b>1778</b>	<b>152</b>	<b>212</b>	

## PAVEMENT SCHEDULE

			SUBBASE GRAN MAT. TY A 12"	SUBBASE GRAN MAT. TY C	STABILIZED SUBBASE 4"	PCC PAVEMENT 9-1/2" (JOINTED)	PCC SHOULDERS 9-1/2"	CONCRETE GUTTER, TY B (SPECIAL)	AGGREGATE SURFACE COURSE TY A 6"
STA	TO	STA	SQ YD	CU YD	SQ YD	SQ YD	SQ YD	FOOT	SQ YD
36400	TO	36950	2308	53	1650	1467	658	550	119
<b>TOTAL =</b>			<b>2308</b>	<b>53</b>	<b>1650</b>	<b>1467</b>	<b>658</b>	<b>550</b>	<b>119</b>

## TRAFFIC CONTROL SCHEDULE

STATION	TO	STATION	IMPACT ATTENUATORS	TEMPORARY RUMBLE STRIPS	TEMPORARY CONC. BARRIER	BARRIER WALL REFLECTORS TY C
			EACH	EACH	FOOT	EACH
363+25	TO	365+13	2	3	175	28
369+00	TO	370+25	2	3	125	20
<b>TOTAL =</b>			<b>4</b>	<b>6</b>	<b>300</b>	<b>48</b>

## GUARDRAIL SCHEDULE

			STEEL PLATE BEAM GUARDRAIL TY A	TRAFFIC BARRIER TERM TY 1 (SPECIAL) TANGENT	TERMINAL MARKER DIRECT APPLIED	GUARDRAIL REFLECTORS TY A
STATION	TO	STATION	FOOT	EACH	EACH	EACH
363+12.5		370+37.5	725			10
		362+62.5		1	1	1
		370+87.5		1	1	1
<b>TOTAL =</b>			<b>725</b>	<b>2</b>	<b>2</b>	<b>12</b>

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# EROSION CONTROL SEEDING SCHEDULE

			EROSION CONTROL BLANKET	TEMPORARY EROSION CONTROL SEEDING	PERIMETER EROSION BARRIER	INLET AND PIPE PROTECTION	SEEDING CLASS 2A	MULCH METHOD 2	NITROGEN FERTILIZER NUTRIENT	PHOSPHORUS FERTILIZER NUTRIENT	POTASSIUM FERTILIZER NUTRIENT	NOTES
STATION	TO	STATION	SQ YD	POUND	FOOT	EACH	ACRE	ACRE	POUND	POUND	POUND	
364+00	TO	370+00	709	100		1	0.50	0.50	45	45	45	LT SIDE OF IL 127 CENTERLINE
364+00	TO	370+00	836	250	590		0.25	0.25	23	23	23	RT SIDE OF IL 127 CENTERLINE
TOTAL =			1545	350	590	1	0.75	0.75	68	68	68	

# PAVEMENT MARKINGS

STATION	TO	STATION	PAINT PAVEMNT MARKING -LINE 4"		RAISED REFLECTIVE PAVEMENT MARKER
			YELLOW	WHITE	
			FOOT	FOOT	
364+00	TO	369+50	1100	1100	7
TOTAL =			2200		7

# DRAINAGE SCHEDULE

STATION	PIPE CULVERTS, CL D, TY 2 18"	METAL FLARED END SECTIONS 18"	INSERTION CULVERT LINER 30"	PIPE UNDERDRAINS FOR STRUCTURES
	FOOT	EACH	FOOT	FOOT
368+30	53	2		
363+91			58	
365+25				28
366+25				40
367+25				45
368+25				54
369+25				60
TOTAL =		2	58	227

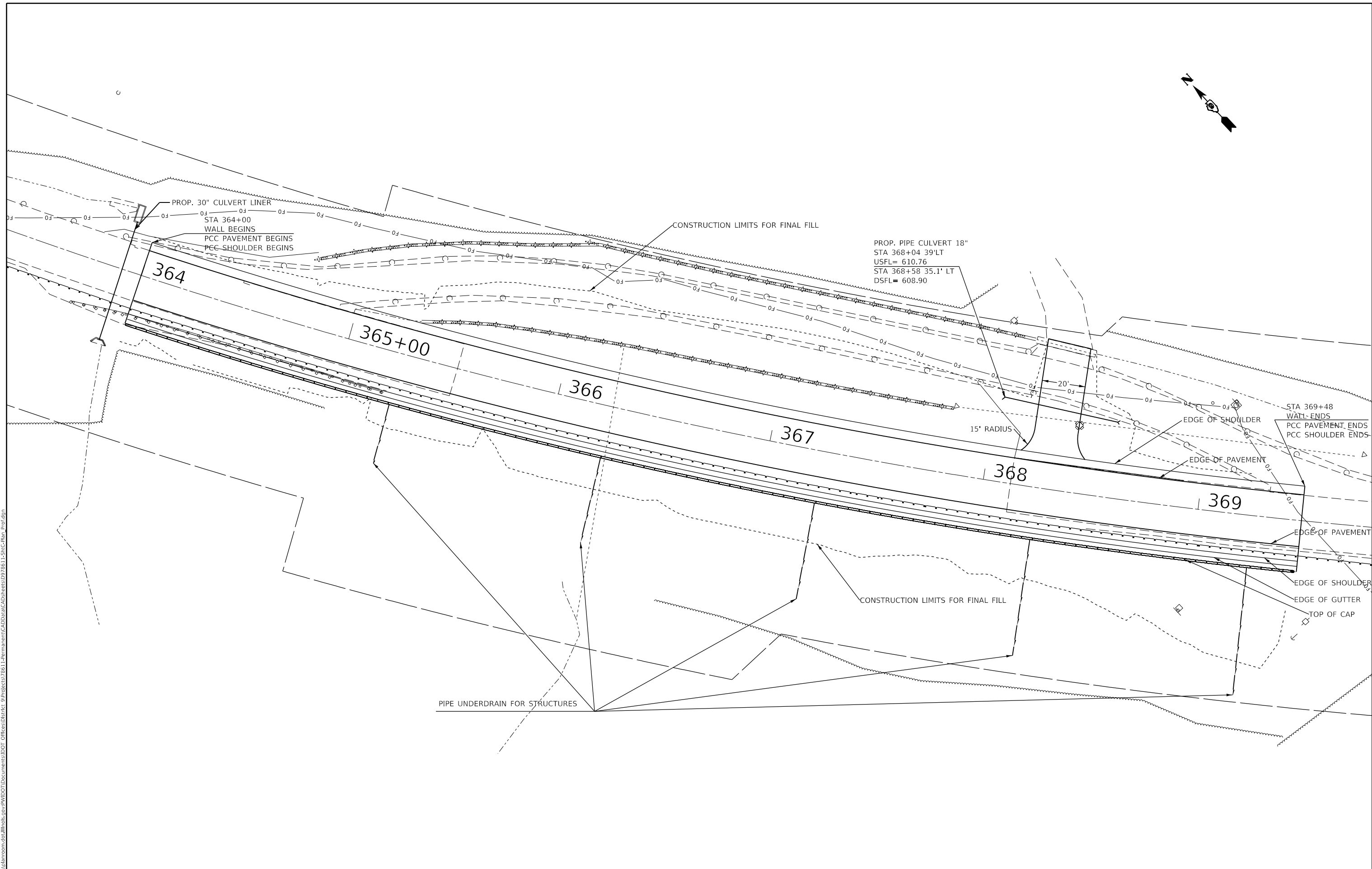
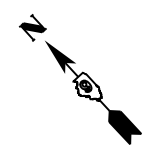
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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

SCHEDULE			
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	STA.	TO	STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1909	225LP-1	UNION	54	11
			CONTRACT NO. 78611	
		ILLINOIS FED. AID PROJECT		



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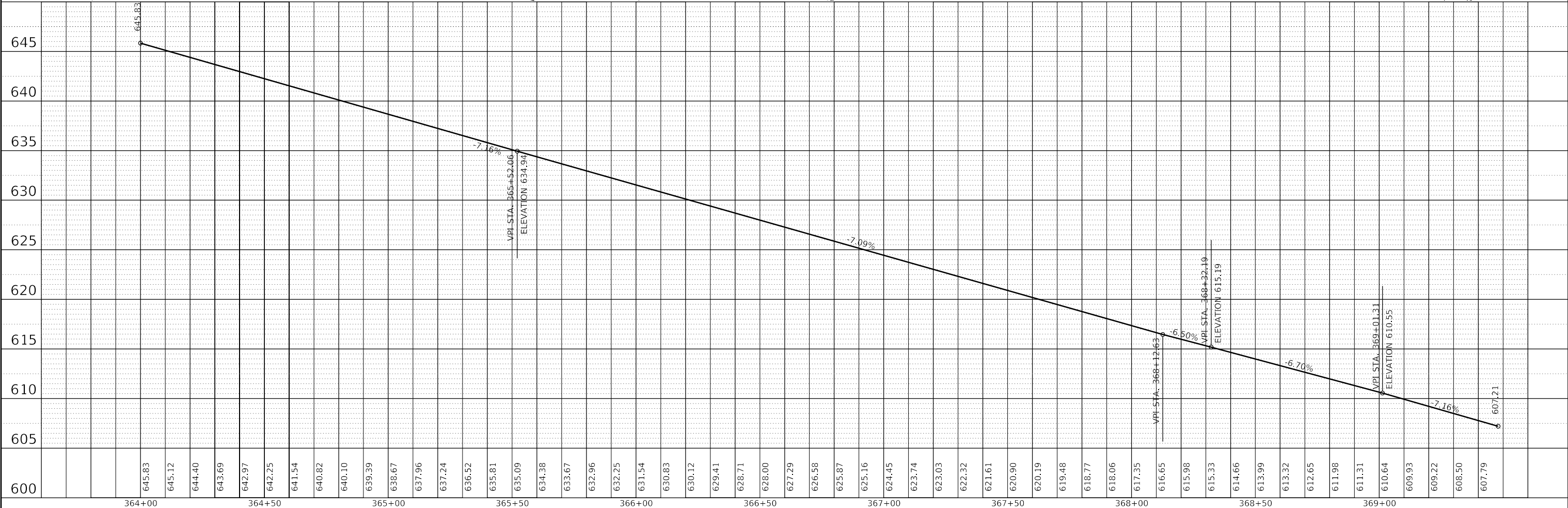
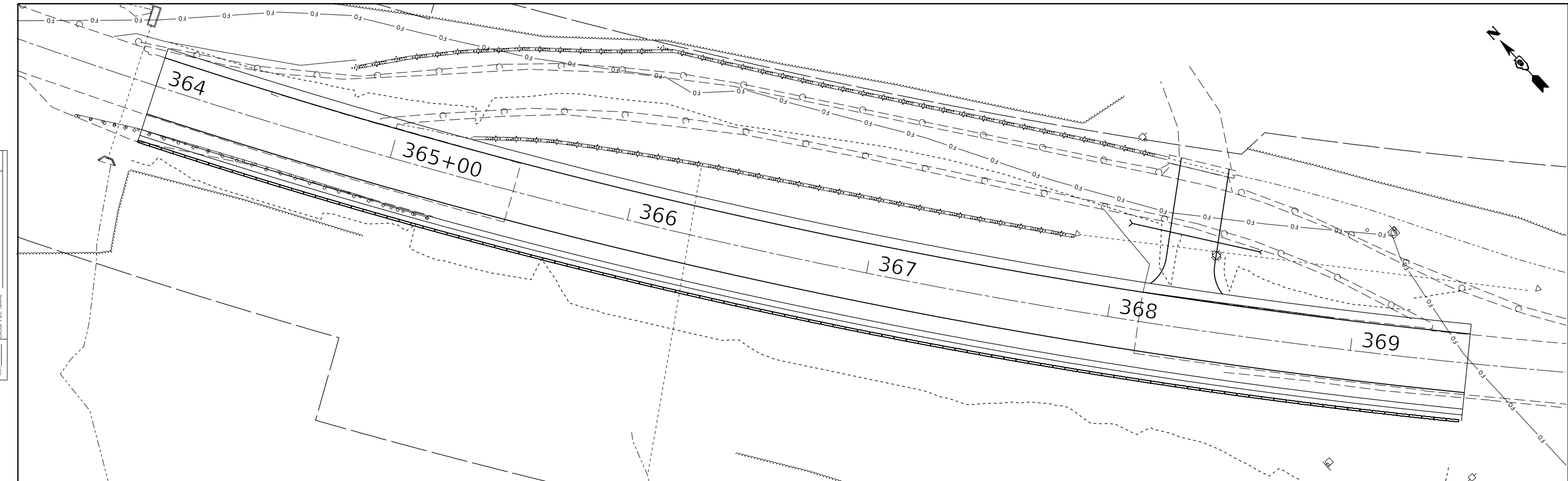
**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

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	STA.		TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1909	225LP-1	UNION	54	12
CONTRACT NO. 78611				
ILLINOIS FED. AID PROJECT				

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	PLOTTED		
	ALIGNED		
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	FILE NAME		
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PROFILE	SURVEYED	BY	DATE
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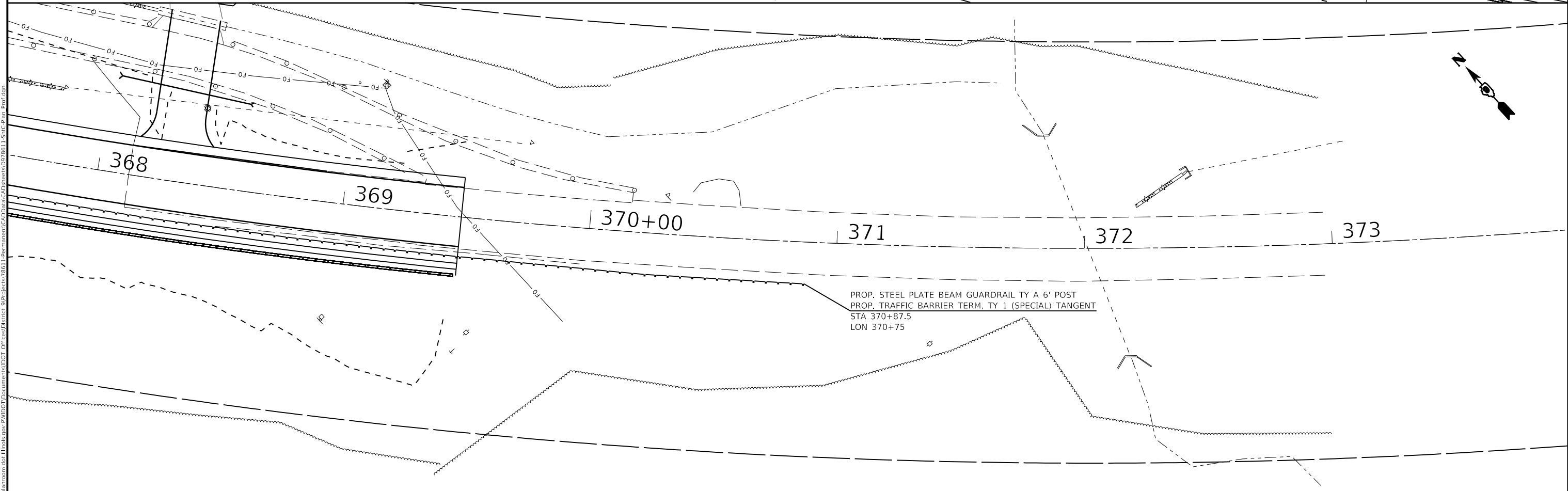
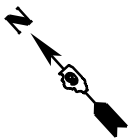
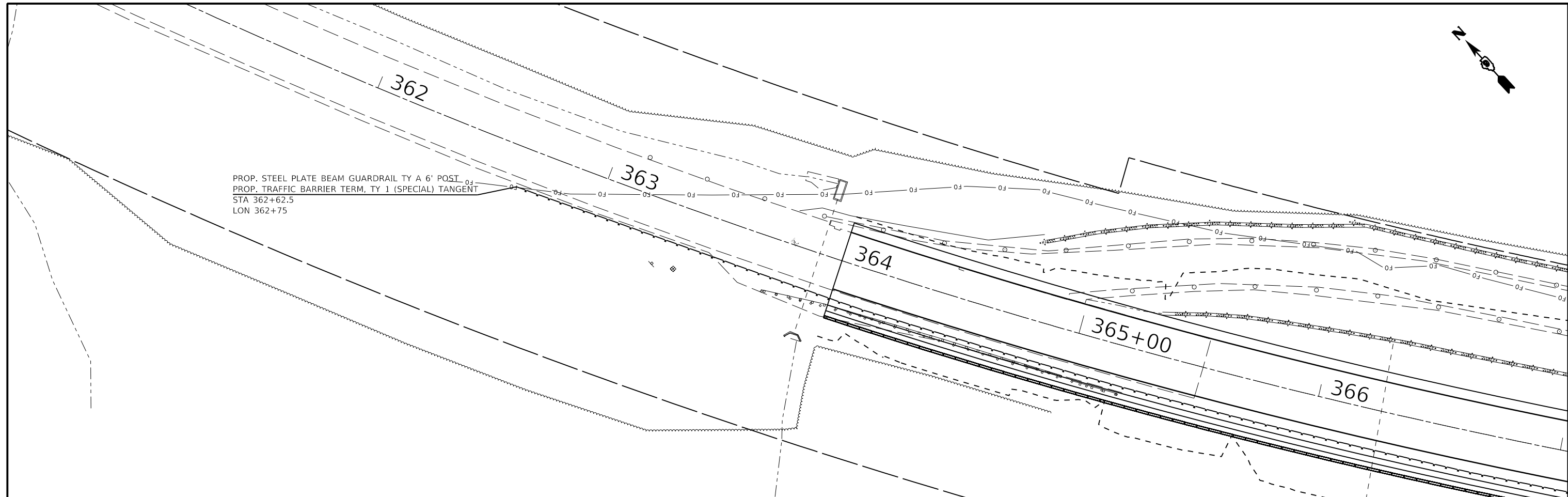
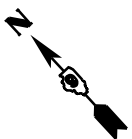
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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

SCALE:	SHEET	OF	SHEETS	STA.	TO STA.
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**IL 127 PROFILE**

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1909	225LP-1	UNION	54	13
CONTRACT NO. 78611				
ILLINOIS FED. AID PROJECT				



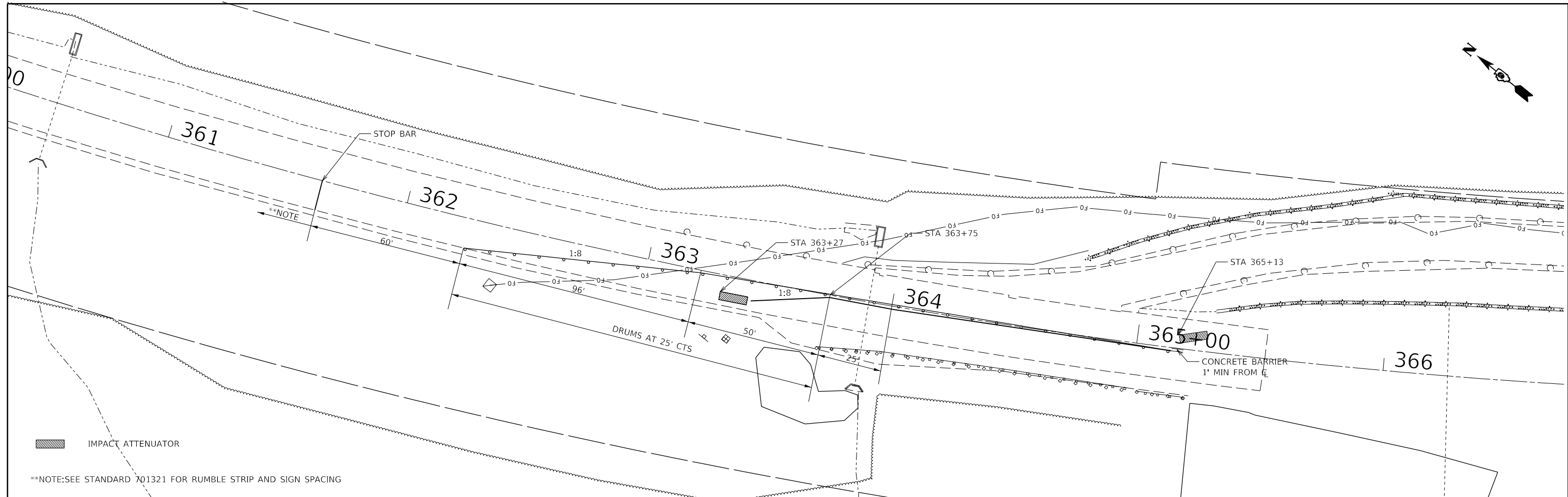
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**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

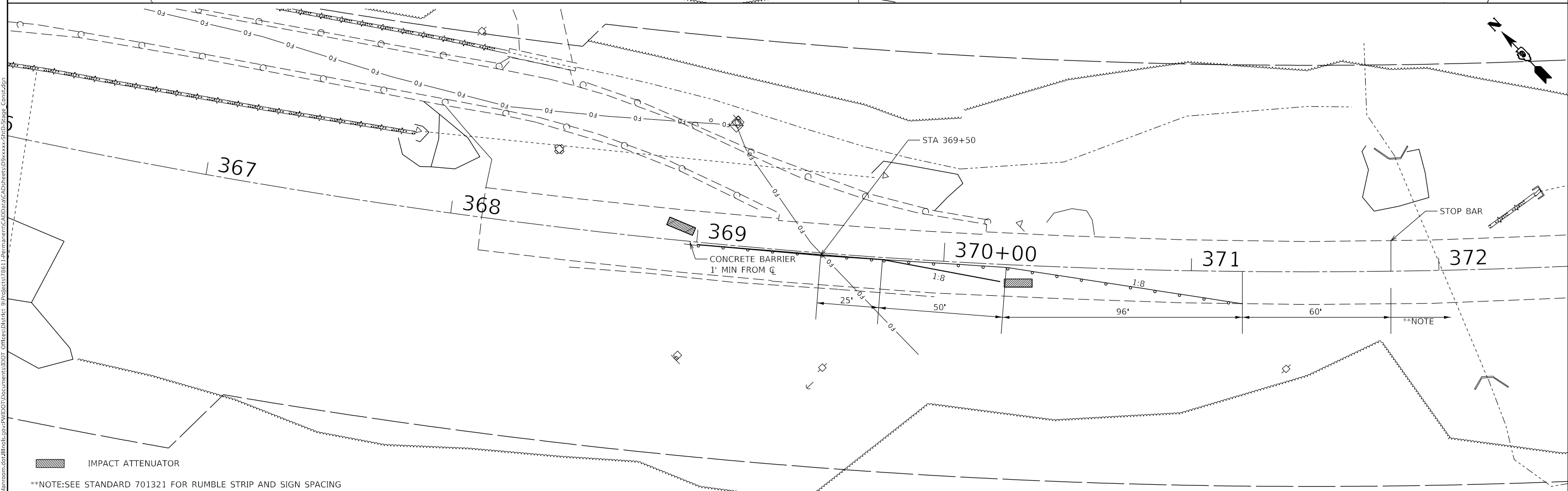
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1909	225LP-1	UNION	54	14
CONTRACT NO. 78611				
ILLINOIS FED. AID PROJECT				



IMPACT ATTENUATOR

\*\*NOTE:SEE STANDARD 701321 FOR RUMBLE STRIP AND SIGN SPACING



IMPACT ATTENUATOR

\*\*NOTE:SEE STANDARD 701321 FOR RUMBLE STRIP AND SIGN SPACING

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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

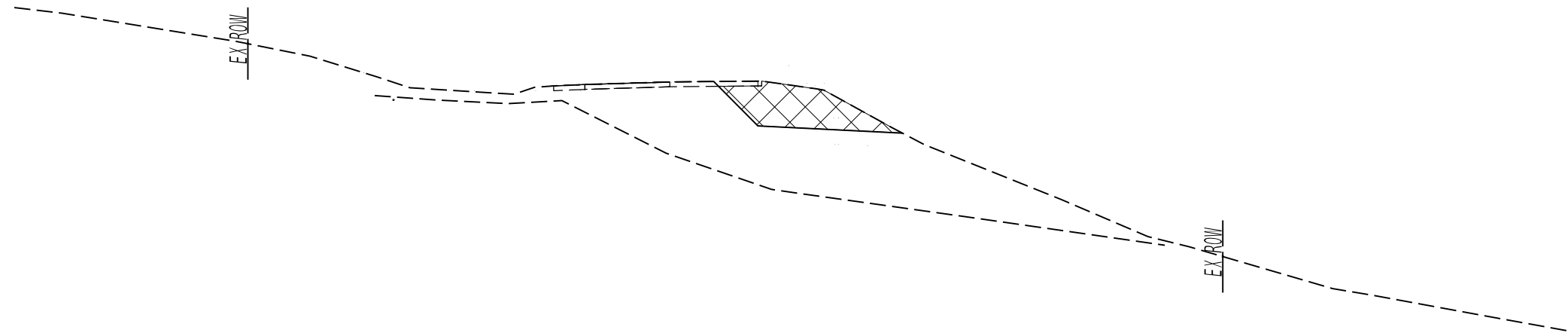
**TRAFFIC CONTROL**

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F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 78611				
ILLINOIS FED. AID PROJECT				

### STAGE 1 (STRUCTURE SEQUENCE OF CONSTRUCTION STEP 1)

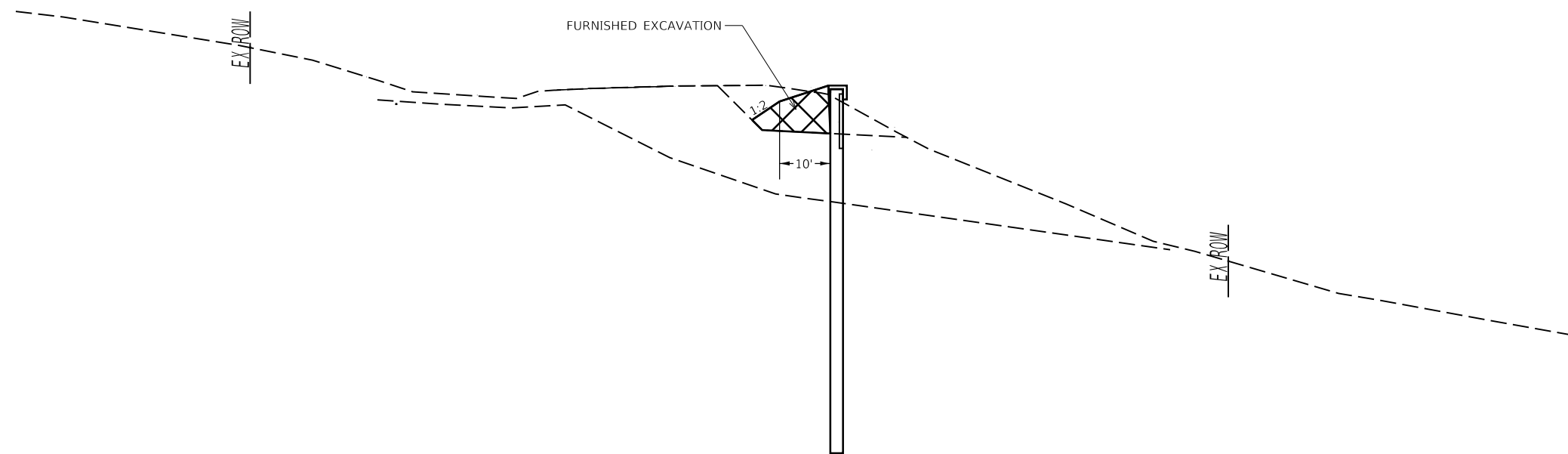
- PAVEMENT REMOVAL
- REMOVE EXISTING IL 127 PAVEMENT
- SOLDIER PILE PLATFORM
- EXCAVATE THE WORKING PLATFORM



### STAGE 2 (STRUCTURE SEQUENCE OF CONSTRUCTION STEP 7)

BACKFILL BEHIND WALL WITH FURNISHED EXCAVATION AFTER LAGGING AND GEOCOMPOSITE WALL DRAIN HAS BEEN INSTALLED ABOVE THE WORKING PLATFORM

MONITOR THE TOP OF THE SOLDIER PILE DEFLECTION DURING BACKFILL OPERATION. MAXIMUM DEFLECTION AT THE TOP OF THE SOLDIER PILE IS  $\frac{3}{8}$  INCH FOR THIS OPERATION. REDUCE THE SIZE OF EQUIPMENT IF NECESSARY. THE MATERIAL SHALL BE COMPACTED ACCORDING TO ARTICLE 205.06 OF THE STANDARD SPECIFICATIONS.



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 REVISED: -  
 STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION  
 CONSTRUCTION STAGING SHEETS  
 SCALE: SHEET OF SHEETS STA. TO STA.  
 F.A.S. RTE. 1909 SECTION 225LP-1 COUNTY UNION TOTAL SHEETS 54 SHEET NO. 17  
 CONTRACT NO. 78611  
 ILLINOIS FED. AID PROJECT

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

**CONSTRUCTION STAGING SHEETS**

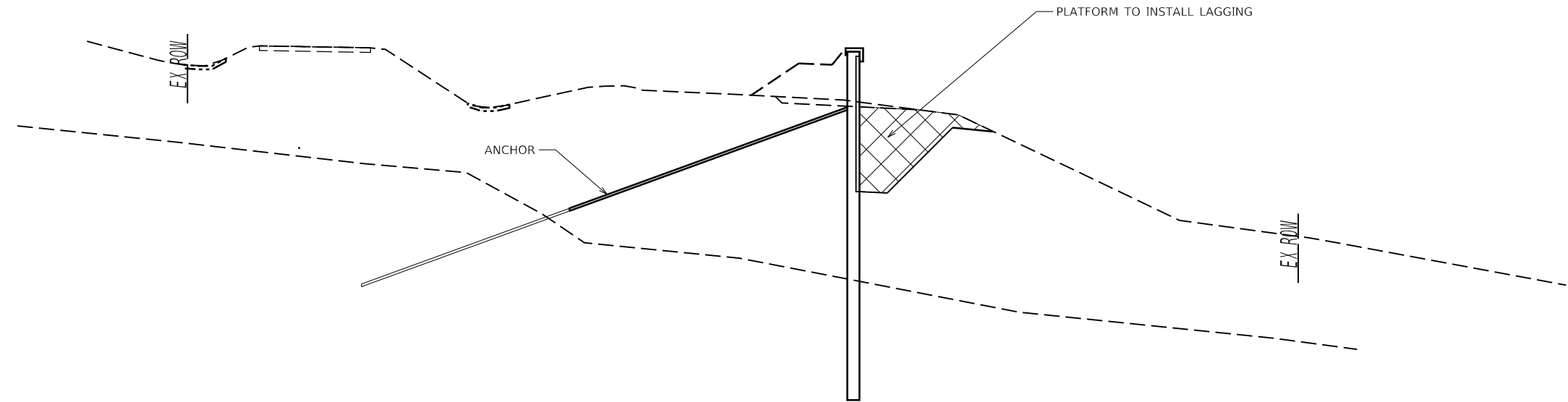
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CONTRACT NO. 78611				
ILLINOIS		FED. AID PROJECT		



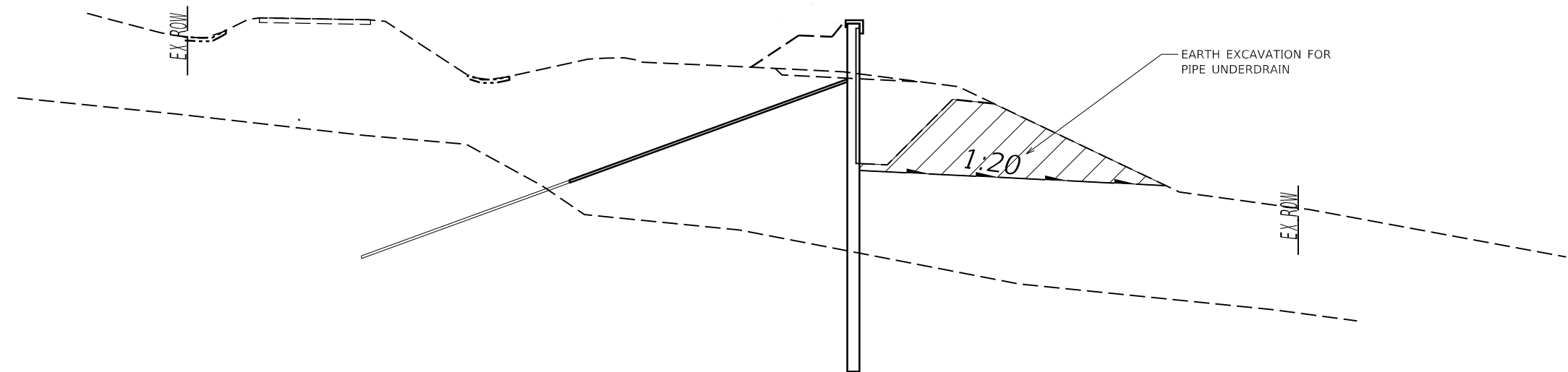
**STAGE 3 (STRUCTURE SEQUENCE OF CONSTRUCTION STEP 11)**

EXCAVATE IN FRONT OF WALL TO INSTALL THE REMAINDER OF LAGGING, WALL DRAIN, AND PIPE UNDERDRAIN FOR STRUCTURES.



**STAGE 4 (STRUCTURE SEQUENCE OF CONSTRUCTION STEP 12)**

EXCAVATE FOR PIPE UNDERDRAIN FOR STRUCTURES



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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

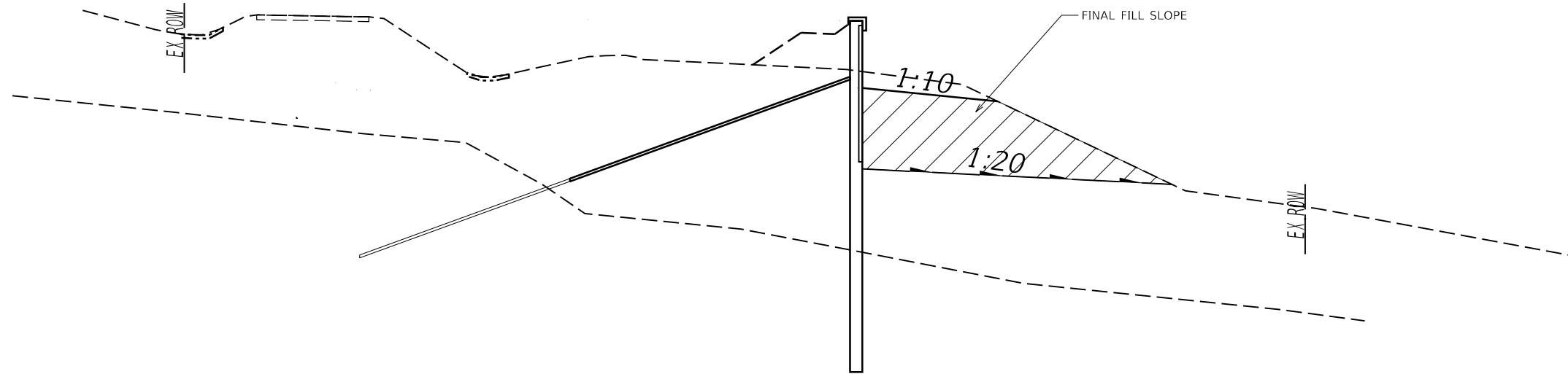
**CONSTRUCTION STAGING SHEETS**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1909	225LP-1	UNION	54	18
CONTRACT NO. 78611				
ILLINOIS FED. AID PROJECT				

### STAGE 5 (STRUCTURE SEQUENCE OF CONSTRUCTION STEP 13)

BACKFILL THE LAGGING AND DRAIN EXCAVATION IN FRONT OF THE WALL TO THE PROPOSED FINISH GRADE

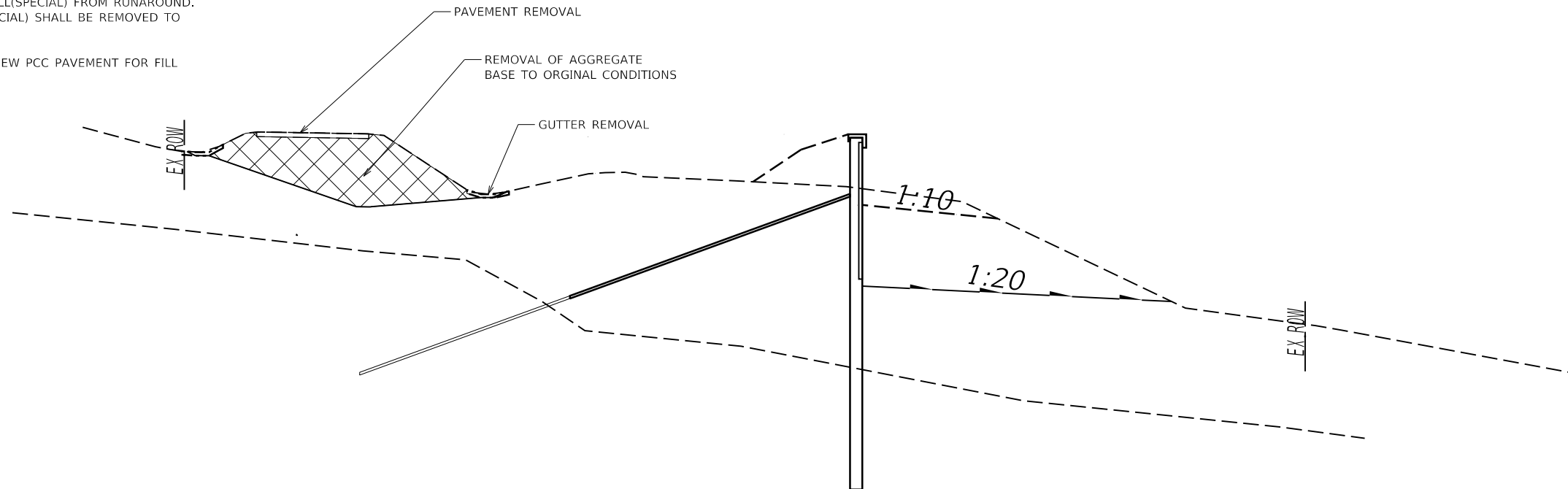


### STAGE 6

DURING THIS STAGE IL 127 WILL BE CLOSED TO TRAFFIC

REMOVE TEMPORARY RUNAROUND PAVEMENT AND PAVED DITCHES. EXCAVATE COARSE AGGREGATE BACKFILL(SPECIAL) FROM RUNAROUND. THE COARSE AGGREGATE BACKFILL(SPECIAL) SHALL BE REMOVED TO ORIGINAL DITCH CONDITIONS.

THIS MATERIAL WILL BE USED UNDER NEW PCC PAVEMENT FOR FILL



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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

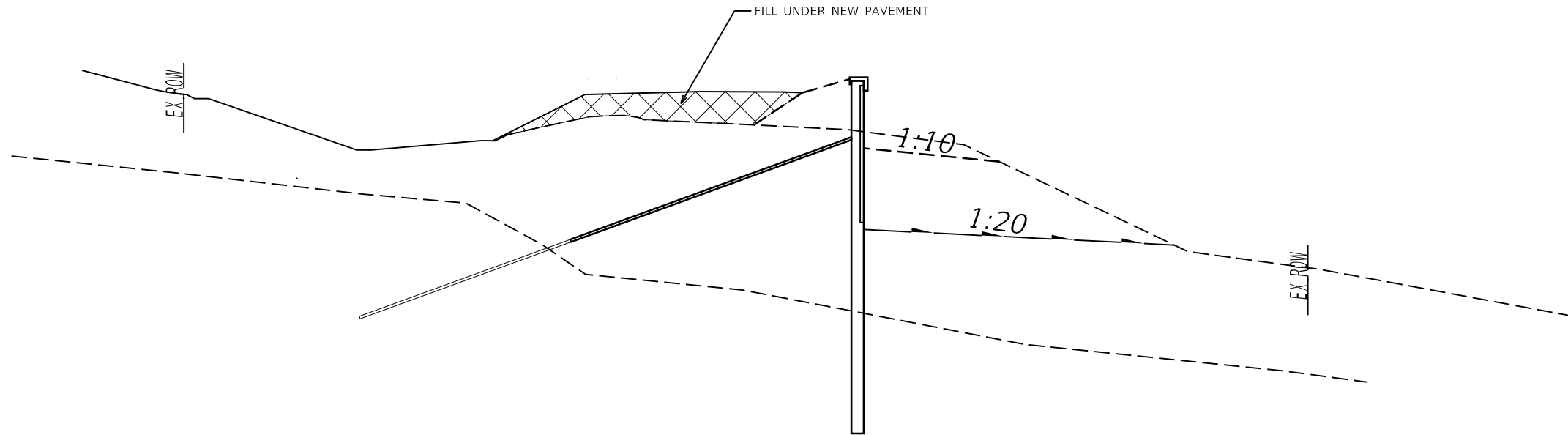
**CONSTRUCTION STAGING SHEETS**

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F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1909	225LP-1	UNION	54	19
CONTRACT NO. 78611				
ILLINOIS FED. AID PROJECT				

**STAGE 7**

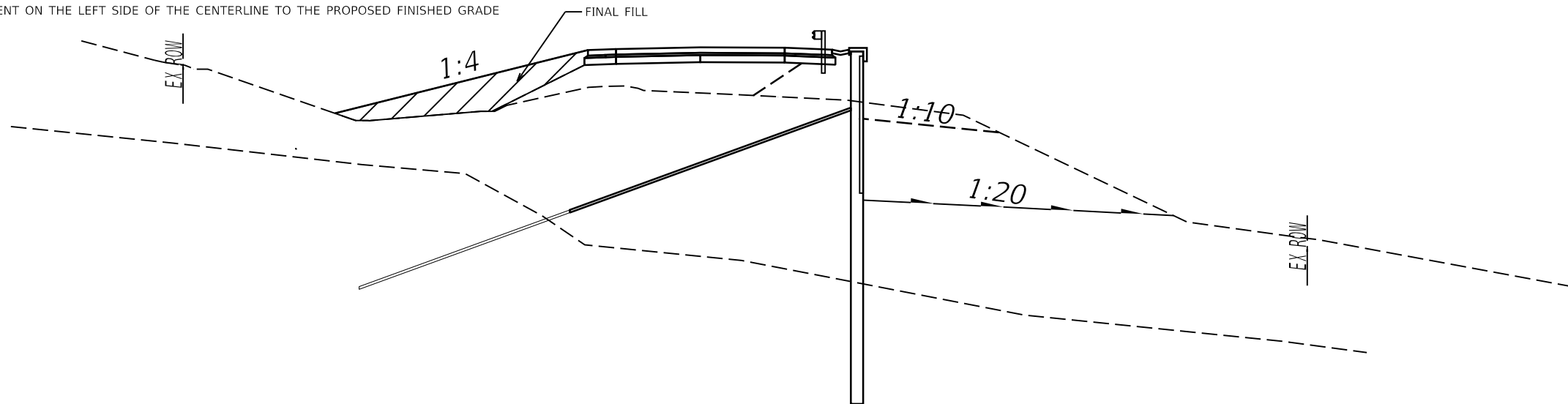
USE COARSE AGGREGATE BACKFILL(SPECIAL) FROM RUNAROUND FOR THE REMAINDER OF FILL UNDER PROPOSED PAVEMENT AND SHOULDERS.



**STAGE 8**

CONSTRUCT THE SUBBASE GRANULAR, STABILIZED SUBBASE, PCC PAVEMENT, PCC SHOULDERS, CONCRETE GUTTER, AND INSTALL GUARDRAIL

CONSTRUCT THE EARTH EMBANKMENT ON THE LEFT SIDE OF THE CENTERLINE TO THE PROPOSED FINISHED GRADE



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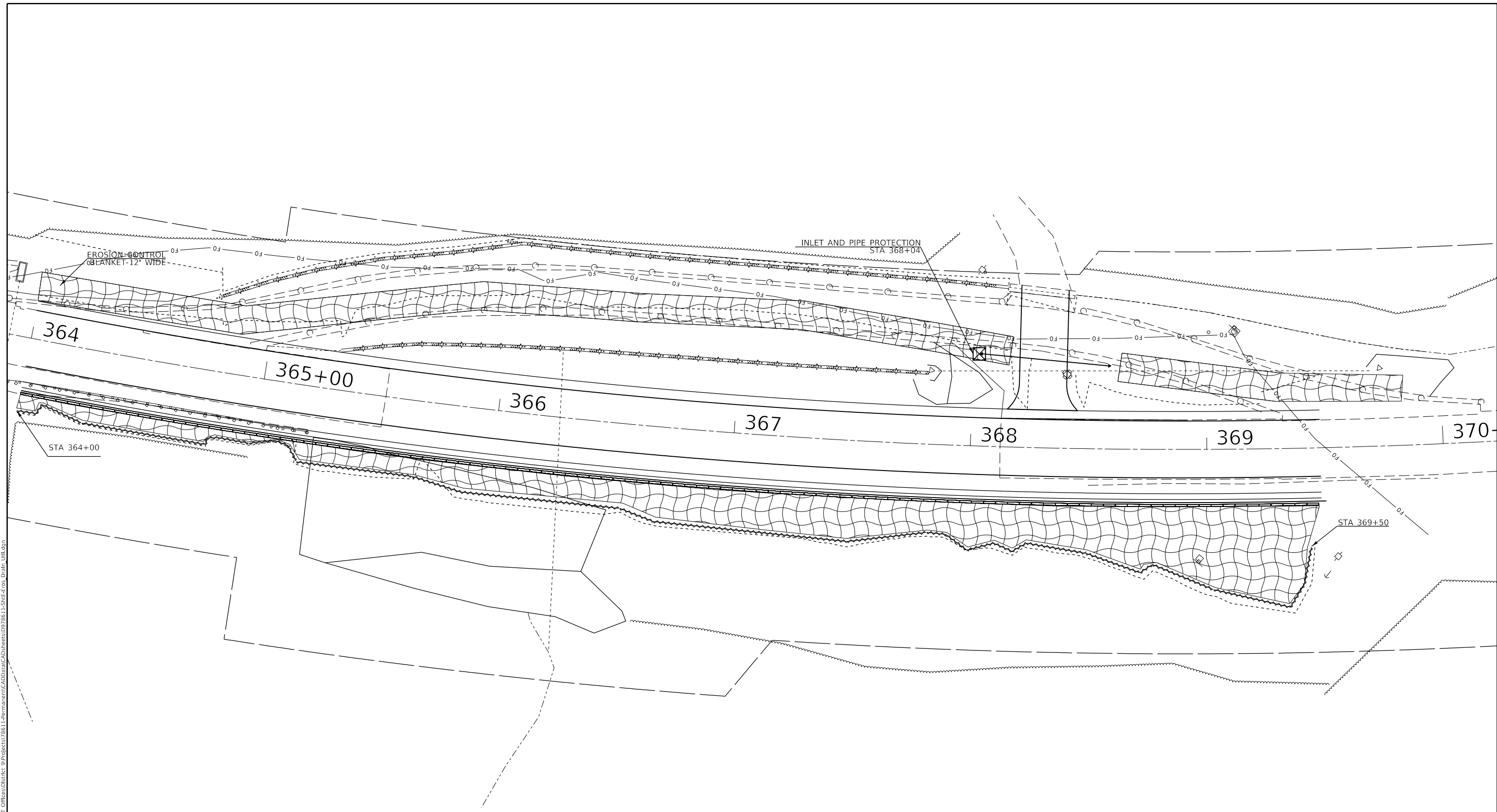
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**




**CONSTRUCTION STAGING SHEETS**

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1909	225LP-1	UNION	54	20
CONTRACT NO. 78611				
ILLINOIS FED. AID PROJECT				

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- 
INLET AND PIPE PROTECTION
- 
PERIMETER EROSION BARRIER
- 
EROSION CONTROL BLANKET

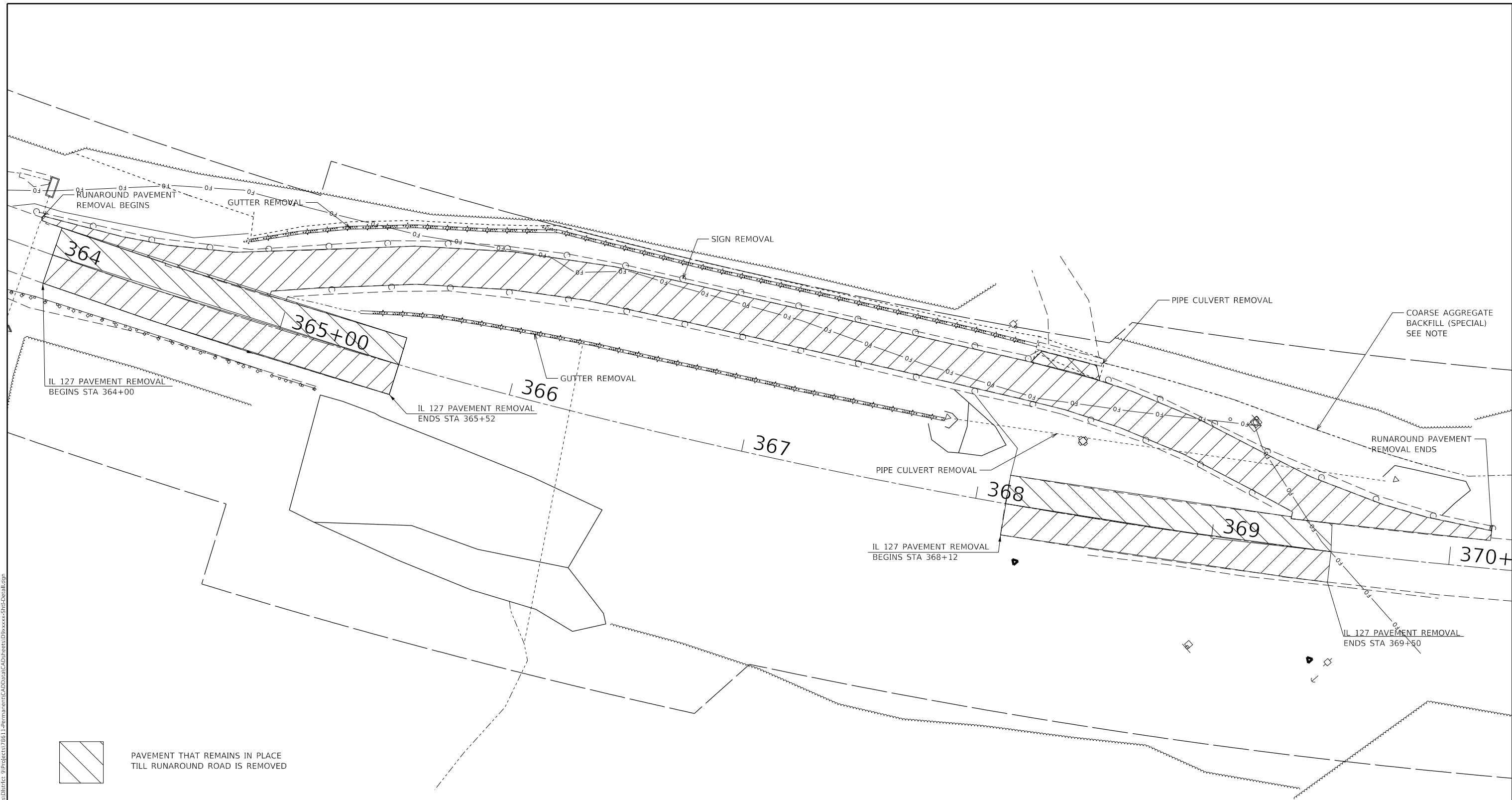
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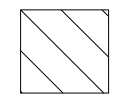
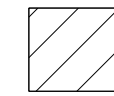
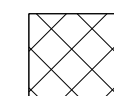
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>EROSION CONTROL</b>				
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F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1909	225LP-1	UNION	54	21
CONTRACT NO. 78611				
ILLINOIS FED. AID PROJECT				

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-  PAVEMENT THAT REMAINS IN PLACE TILL RUNAROUND ROAD IS REMOVED
-  PAVEMENT REMOVAL
-  DRIVEWAY REMOVAL

NOTE: REMOVE AGGREGATE UNDER RUNAROUND ROAD TO ORIGINAL CONDITIONS

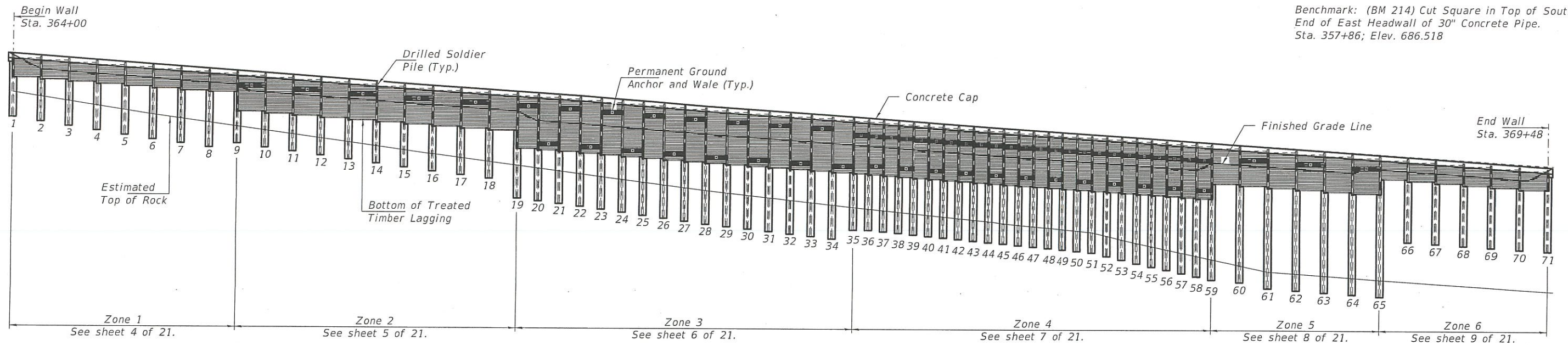
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**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

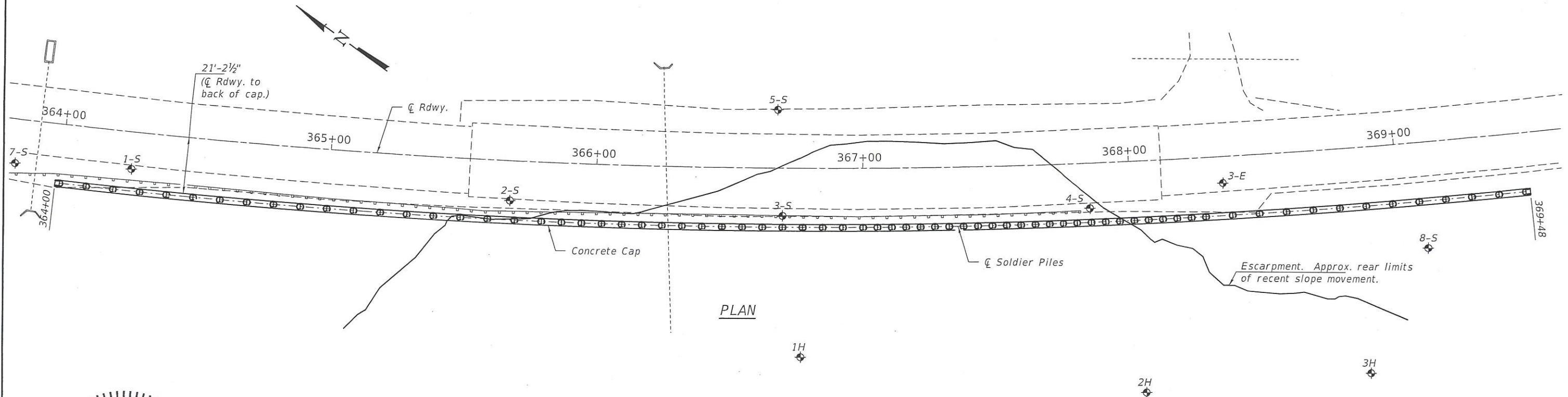
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F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1909	225LP-1	UNION	54	15
ILLINOIS FED. AID PROJECT			CONTRACT NO. 78611	

Benchmark: (BM 214) Cut Square in Top of South End of East Headwall of 30" Concrete Pipe. Sta. 357+86; Elev. 686.518



ELEVATION



PLAN

**DESIGN SPECIFICATIONS**  
2012 AASHTO Standard Specifications, 8th Edition

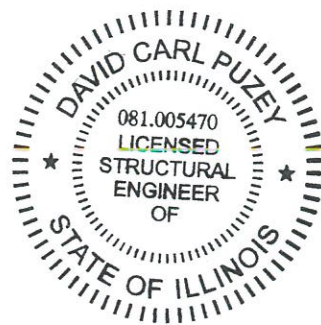
**DESIGN STRESSES**

**FIELD UNITS**  
 fu Ultimate Anchor Bar Stress = 150 ksi  
 fpu Ultimate Seven Wire Strand Stress = 270 ksi  
 fy Soldier Piles = 50 ksi  
 fy Structural Steel = 50,000 psi  
 fy Reinforcement = 60,000 psi  
 f'c Concrete = 4.0 ksi  
 Fb Treated Timber Lagging = 1750 psi  
 (Dense 1, Southern Pine)

**EXISTING CURVE DATA**

P.I. Sta. 365+02.01  
 Δ = 57° 59' 48" (LT)  
 D = 2° 15' 55"  
 R = 2529.46'  
 T = 1402.01'  
 L = 2560.40'  
 E = 362.56'  
 P.C. Sta. 351+00.00  
 P.T. Sta. 376+60.40

Notes:  
 For Bedrock Geological Profile, see sheets 13 of 21.  
 For Boring information, see sheets 14 thru 21 of 21.



EXPIRES 11-30-2020

DESIGNED - <i>William M. K...</i>	EXAMINED - <i>T...</i>	DATE - DECEMBER 6, 2019
CHECKED - <i>Victor H. V...</i>	PASSED - <i>D...</i>	REVISED -
DRAWN - <i>daburdell</i>		REVISED -
CHECKED - <i>VHV</i>		

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

PLAN AND ELEVATION  
IL 127 ALTO PASS  
SN 091-W001  
SHEET NO. 1 OF 21 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1909	22 SLP-1	UNION	54	22
CONTRACT NO. 78611			ILLINOIS FED. AID PROJECT	

SEQUENCE OF CONSTRUCTION

1. Excavate down the minimum amount necessary, but not more than 9 feet below the top of cap elevation, to create a 20' wide working platform centered on the wall alignment.
2. Drill soldier pile excavation through overburden soils until the specified tip elevation or the top of rock is encountered. The top of rock is defined as the depth at which drilling encounters weathered or sound rock including Clay Shale, Sandstone, or Limestone.
3. Adjust soldier pile lengths as necessary based on the difference between the estimated top of rock shown on the plans and the actual top of rock encountered in each soldier pile excavation.
4. Drill into the rock until reaching the minimum embedment in rock specified on the plans for that specific soldier pile.
5. Set, center and brace the pile in the excavation, backfill the excavation with class SI concrete to encase the pile to bottom of lagging depth specified.
6. Place controlled low strength material above the Class SI Encasement Concrete to the working platform elevation.
7. Place lagging and geocomposite wall drain above the working platform to the top of pile. Backfill behind the wall with furnished excavation materials approved by the Engineer such that the width at the bottom of the subgrade elevation is at least 10 feet wide.
8. Excavate in front of wall until 3 feet of lagging is placed below the upper anchor depths shown on the plans, removing only enough CLSM and soil to allow the installation of the geocomposite and lagging without creating a void behind the wall.
9. Install anchors, wedge plates and walers. Test the anchors while monitoring the top of soldier pile deflection and discontinue test if the top of soldier piles deflects more than 1 inch. Lock off anchor at the design load. If soldier pile deflection during testing exceeds 1 inch, follow either of the procedures below:
  - a. Add additional backfill (at no cost to the Department) behind the wall as necessary to maintain soldier pile deflections below 1 inch during the retest and lock off at the design load.
  - b. Lock off the anchor at a tensile loading less than design load that causes soldier pile to deflect less than an inch, leaving enough bar or strand length to complete the test and lock off the anchor at the design load after the wall is fully backfilled during the road closure.
10. Continue the excavation in front of the wall, to allow the installation of the geocomposite and lagging to bottom of lagging depths shown on the plans. Install and test lower anchors (Zone 3 and 4 only) within 2 days of completing lagging installation.
11. Excavate for the wall underdrain, place geotextile, extend geocomposite underdrain, place perforated drain pipe and aggregate, covering the top with geotextile to seal the underdrain from soil intrusion.
12. Starting at station 365+25, excavate trench perpendicular to the wall every 100 feet, sloping away from the wall at 20:1, place a non-perforated pipe, connect to the perforated pipe, extend to the face of the existing slope and backfill with suitable on-site low permeability soils. Cost included with the cost of Pipe Underdrain for Structures 4".
13. Backfill the lagging and drain excavation in front of wall with compacted suitable on-site low permeability soils up to the proposed finished grade. Excavate remaining soils in front of wall to create a 10:1 finished grade sloping away from wall except between 364+00 and 365+25 where the foreslope will need to transition to a steeper slope as shown on the cross-sections
14. After retesting and locking off any remaining anchors, place cast in place cap, gutter, subgrade, pavement and vegetate soil in front of wall where excavation was required.

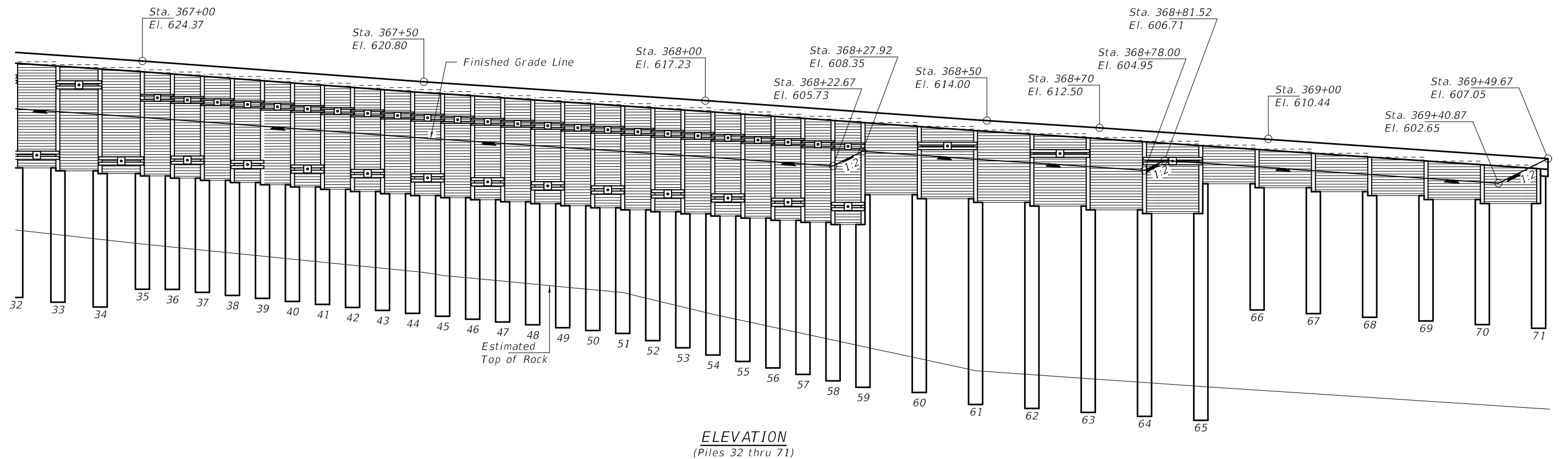
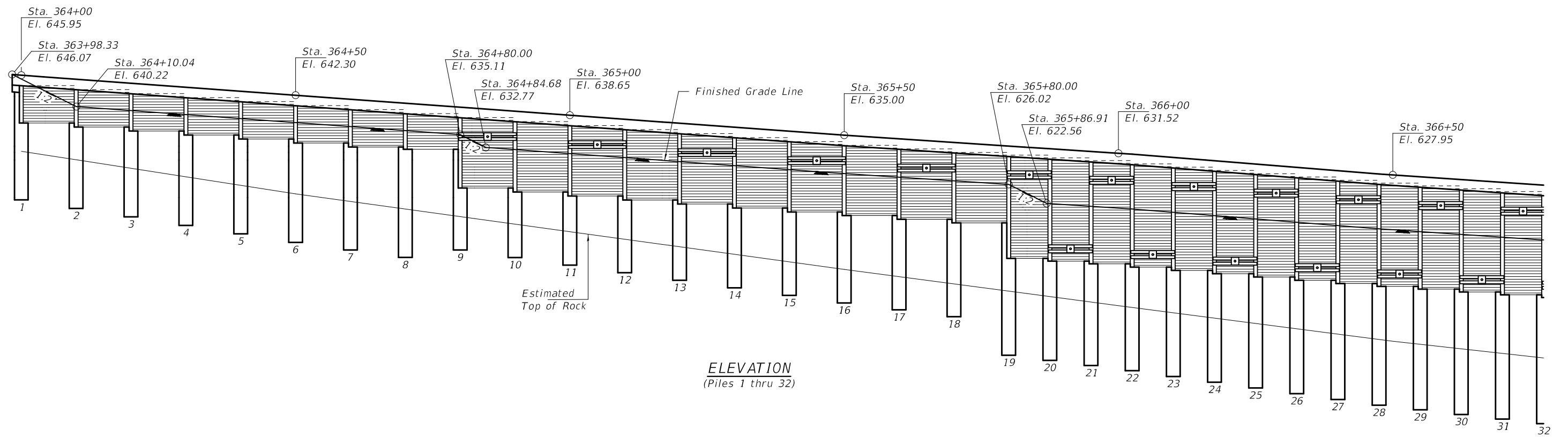
GENERAL NOTES

Reinforcement bars designated (E) shall be epoxy coated.  
 All exposed edges of the concrete cap shall be beveled 3/4".  
 See Special Provisions for installation and testing of Permanent Ground Anchors.  
 All Structural Steel and Soldier Piles shall be cleaned and shop painted with one coat of inorganic zinc rich primer. The inorganic zinc rich primer / Acrylic / Acrylic Paint System shall be used for shop and field painting of all structural steel and Soldier Piles not in contact with encasement concrete. The color of the final finish coat shall be reddish brown, Munsell No. 2.5YR 3/4.  
 The Contractor shall insure that the bottom, sides and top edges of the Geocomposite Wall Drain are protected from soil entering or sealing the drain while placing the pervious fabric side of the drain toward the soil. Geocomposite wall drain shall be installed in stages as the excavation proceeds downward. Splicing should be minimized, following proper splice practices to insure no long term soil contamination.  
 The treated timber lagging shall conform to the requirements of the Standard Specifications All lumber shall be treated according to Art. 1007.12(a)(2) of the Standard Specifications and each cut edge of any timbers shall have those faces covered with additional treatment as required by the Engineer.  
 The anchor design may use steel tendons consisting of either 150 ksi thread bar or 270 ksi strand configuration.  
 The soldier piles and wales were size based on the anchor load and angle of inclination that would place the bonded zone in soil or rock able to develop the necessary pull out capacity. If the Contractor wishes to use different inclination angles, the shop drawing calculations shall make any necessary changes to the design of the soldier piles, wales, and anchor load and tendon at no additional cost to the Department.  
 Quantities and pay items for all excavation, embankment and granular material and placement are covered in the roadway plans.  
 The boring logs presented in the contract documents are representative of the conditions at the location where each boring was made but conditions may vary between borings. The subsurface conditions at the site are highly variable. The subsurface profile was developed to approximate the conditions between borings. If during construction, subsurface conditions are encountered that vary from those shown in the contract documents, the Engineer shall be notified immediately to determine if any soldier pile design changes are required.  
 During the subsurface investigation, boulders were encountered on the site in Borings 1-S and 5-S in the overburden soils above the top of rock elevation. Obstructions shall be addressed according to Art. 522.14 of the Standard Specifications.

TOTAL BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Treated Timber Lagging	Sq. Ft.	7772
Concrete Structures	Cu. Yd.	61.2
Reinforcement Bars, Epoxy Coated	Pound	7830
Drilling and Setting Soldier Piles in Rock	Cu. Ft.	2584
Drilling and Setting Soldier Piles in Soil	Cu. Ft.	10430
Permanent Ground Anchors	Each	60
Furnishing Soldier Piles (W Section)	Foot	2651
Furnishing and Erecting Structural Steel	Pound	63156
Geocomposite Wall Drain	Sq. Yd.	567
Pipe Underdrain for Structures 4"	Foot	548

DESIGNED -	EXAMINED	DATE - DECEMBER 6, 2019	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>GENERAL NOTES, SEQUENCE OF CONSTRUCTION AND BILL OF MATERIAL SN 091-W001</b>	F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
CHECKED -	ENGINEER OF STRUCTURAL SERVICES	REVISED -			1909	22 SLP-1	UNION	54	23	
DRAWN - daburdell	PASSED	REVISED -			CONTRACT NO. 78611					
CHECKED -	ENGINEER OF BRIDGES AND STRUCTURES	REVISED -			SHEET NO. 2 OF 21 SHEETS					
					ILLINOIS FED. AID PROJECT					



DESIGNED -	EXAMINED	DATE - DECEMBER 6, 2019
CHECKED -	ENGINEER OF STRUCTURAL SERVICES	
DRAWN - daburdell	PASSED	REVISER -
CHECKED -	ENGINEER OF BRIDGES AND STRUCTURES	REVISER -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

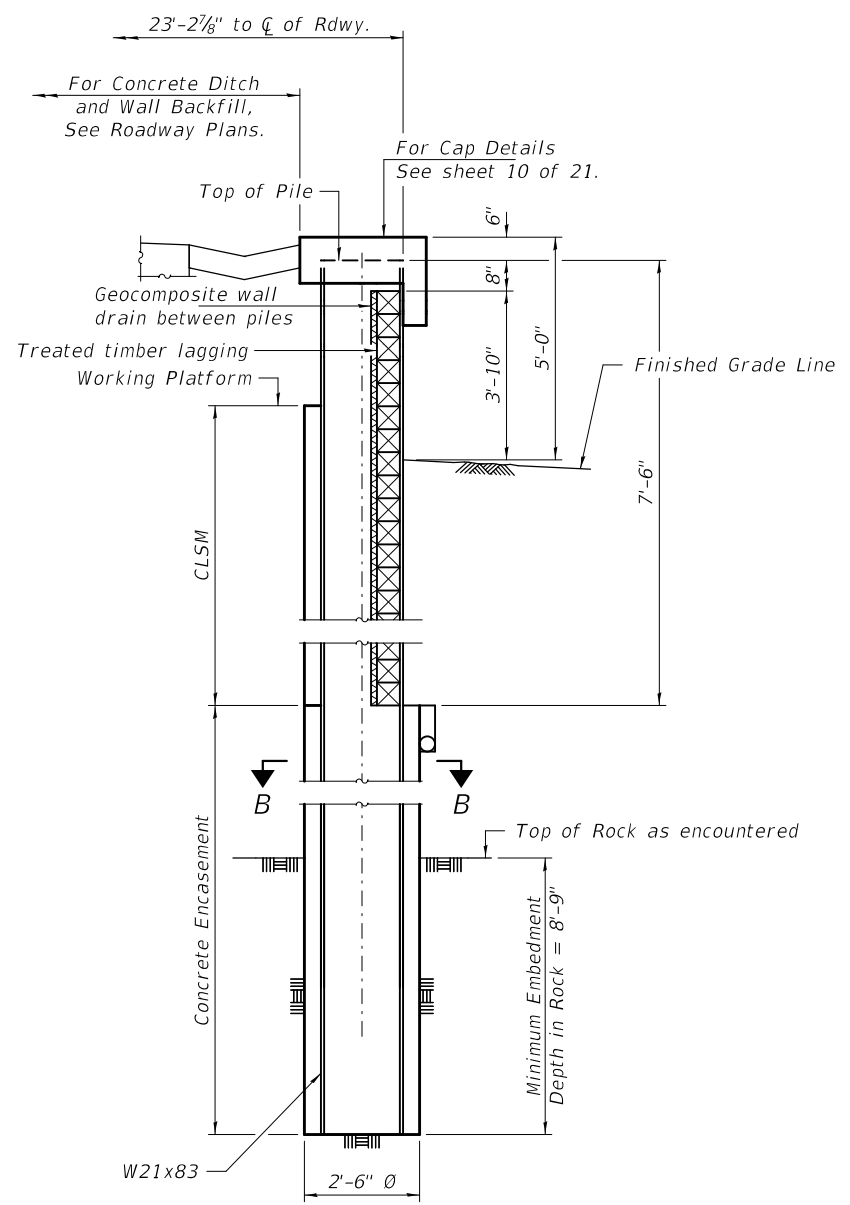
FINISHED GRADE AND TOP OF CAP ELEVATIONS  
 SN 091-W001

SHEET NO. 3 OF 21 SHEETS

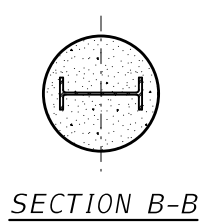
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1909	22 SLP-1	UNION	54	24
CONTRACT NO. 78611				

ILLINOIS FED. AID PROJECT

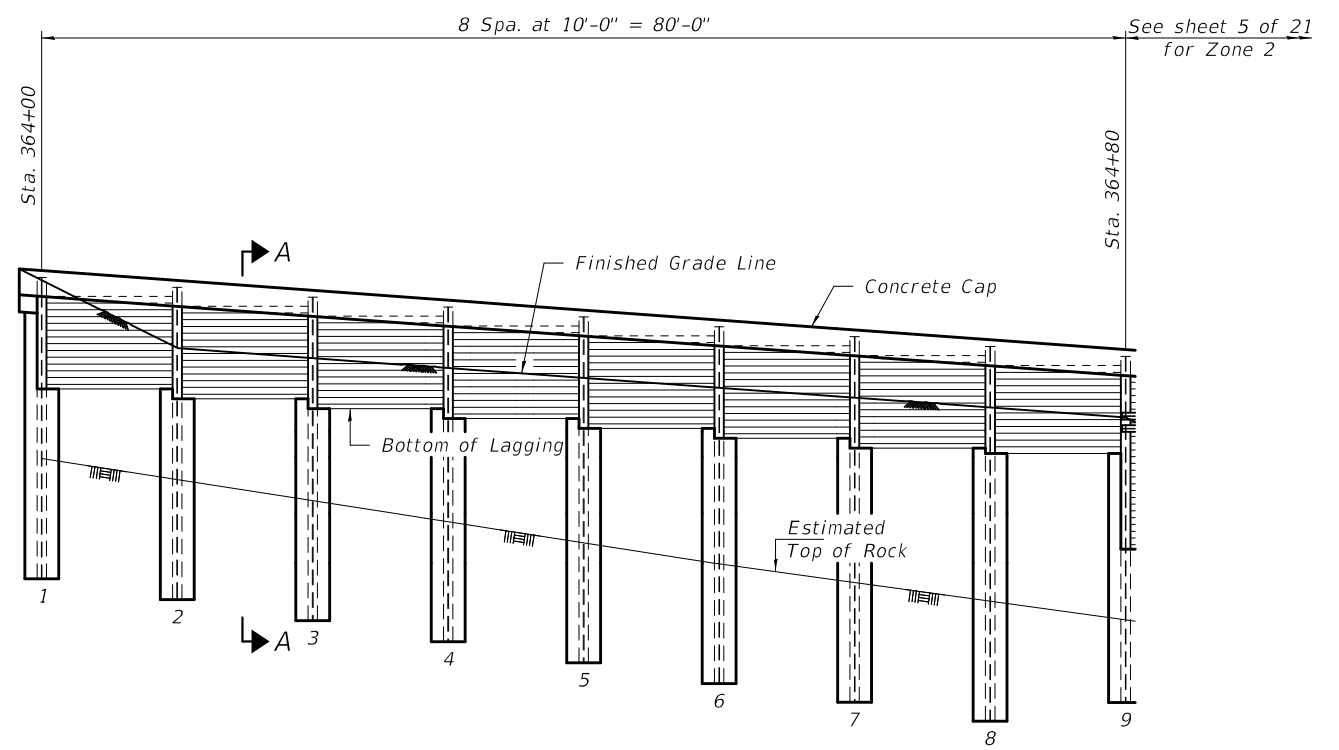




SECTION A-A



SECTION B-B



ELEVATION

Note:  
 For geocomposite wall drain and treated timber lagging details, see sheet 12 of 21.  
 Cost of concrete encasement below the top of rock elevation is included in the cost of Drilling and Setting Soldier Piles in Rock.  
 Cost of concrete encasement above the top of rock elevation and CLSM material is included in the cost of Drilling and Setting Soldier Piles in Soil.

Pile #	Station	Top of Pile Elevation	Estimated Top of Rock Elevation	Estimated Length of Pile (ft)
1	364+00.00	645.45	631.96	22.2
2	364+10.00	644.72	630.41	23.1
3	364+20.00	643.99	628.86	23.9
4	364+30.00	643.26	627.31	24.7
5	364+40.00	642.53	625.76	25.5
6	364+50.00	641.80	624.21	26.3
7	364+60.00	641.07	622.83	27.0
8	364+70.00	640.34	621.45	27.6
* 9	364+80.00	639.61	620.07	25.5

\* See sheet 5 of 21 for depth of rock socket.

DESIGNED - WMK  
 CHECKED - VHV  
 DRAWN - daburdell  
 CHECKED - WMK VHV

EXAMINED  
 PASSED

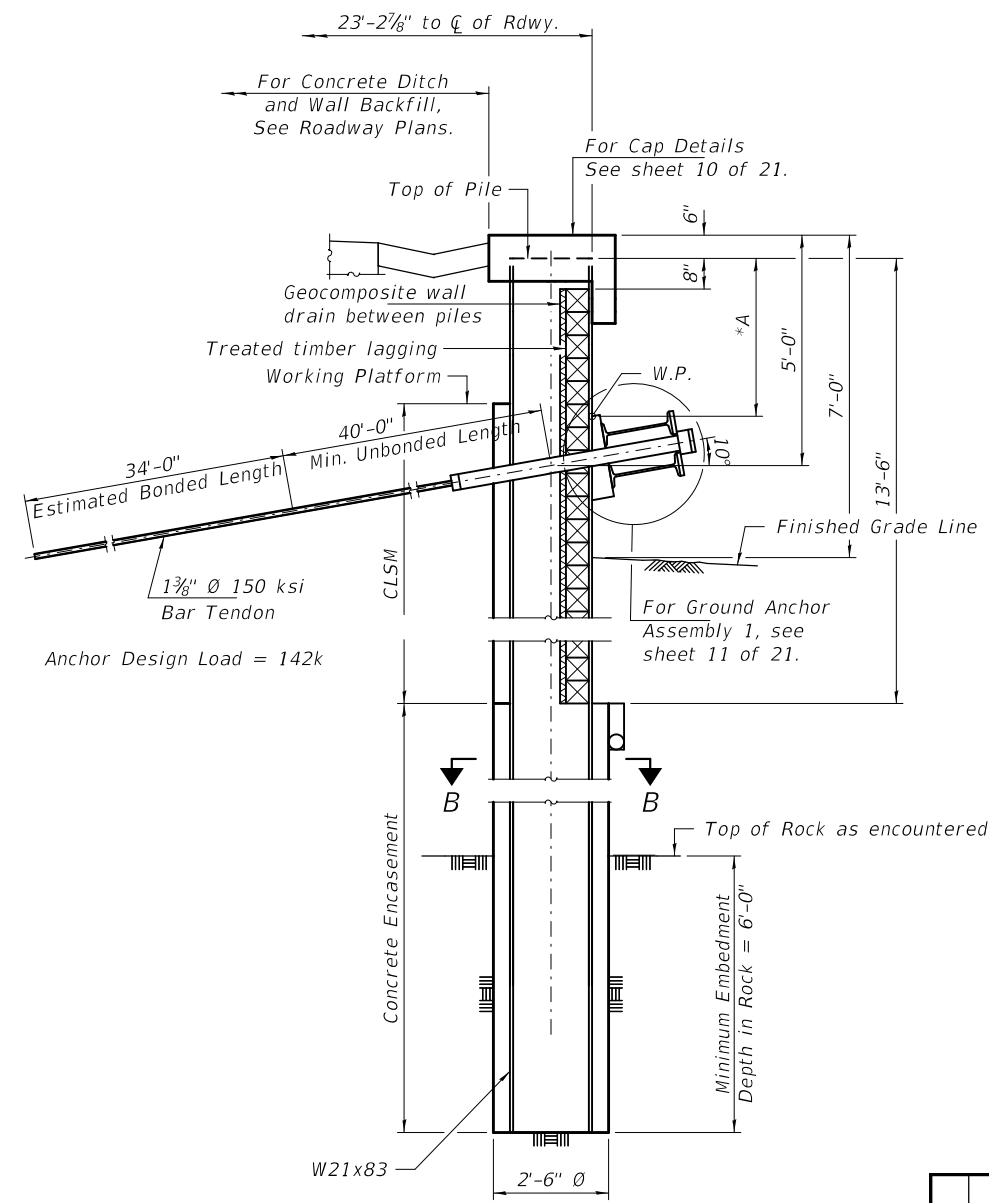
DATE - DECEMBER 6, 2019

REVISOR -  
 REVISION -

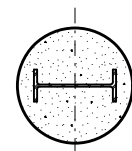
STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

WALL CONFIGURATION - ZONE 1  
 STA. 364+00 THRU 364+80 (PILES 1-8)  
 SN 091-W001

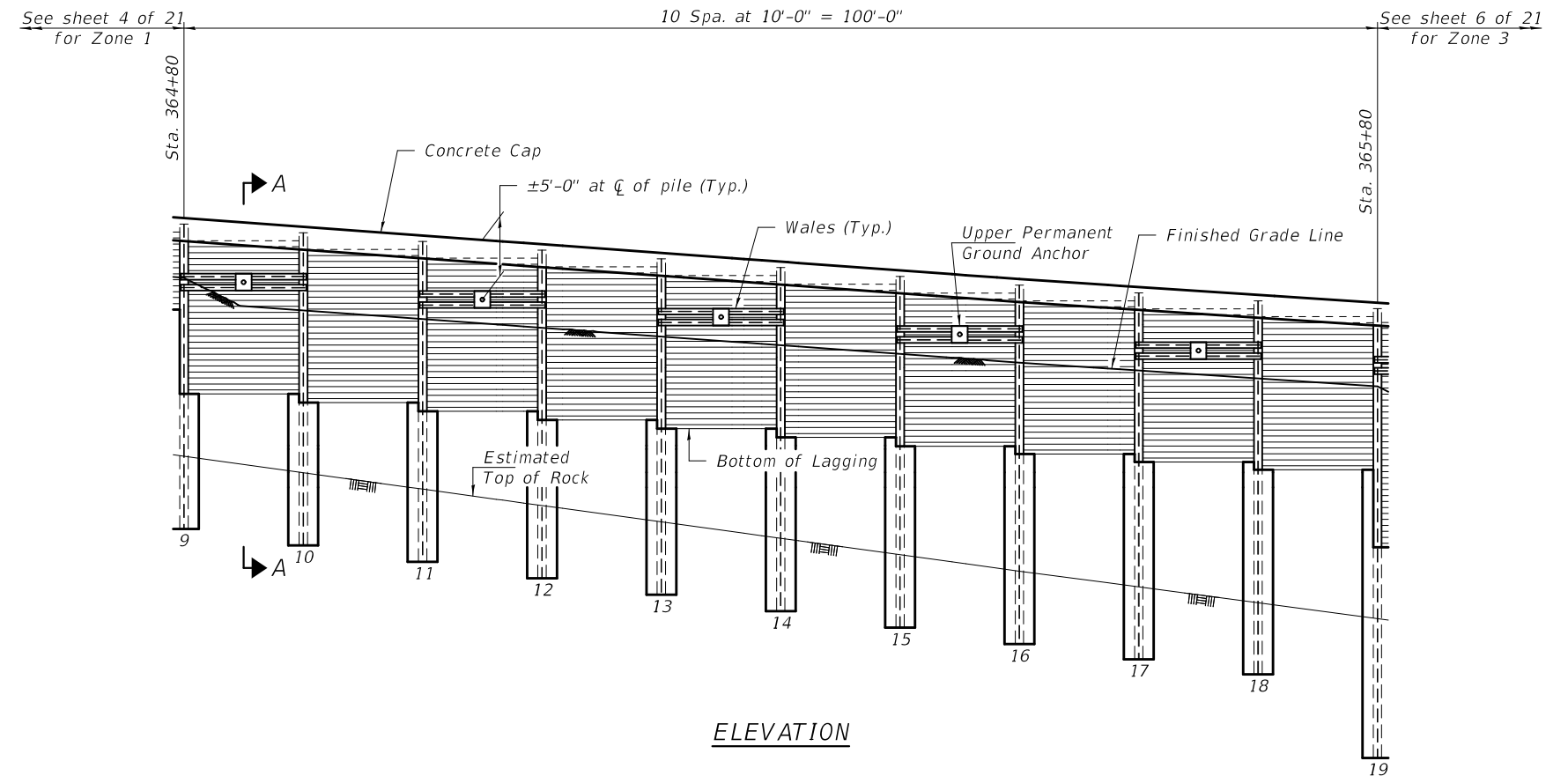
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1909	22 SLP-1	UNION	54	25
CONTRACT NO. 78611				
ILLINOIS FED. AID PROJECT				



SECTION A-A



SECTION B-B



ELEVATION

Notes:

For wedge plate, wale sections, trumpet and anchor plate, see sheet 11 of 21.

For geocomposite wall drain and treated timber lagging details, see sheet 12 of 21.

Cost of concrete encasement below the top of rock elevation is included in the cost of Drilling and Setting Soldier Piles in Rock.

Cost of concrete encasement above the top of rock elevation and CLSM material is included in the cost of Drilling and Setting Soldier Piles in Soil.

Pile #	Station	Top of Pile Elevation	Top of Rock Elevation	Estimated Length of Pile (ft)
9	364+80.00	639.61	620.07	25.5
10	364+90.00	638.88	618.69	26.2
11	365+00.00	638.15	617.31	26.8
12	365+10.00	637.42	615.93	27.5
13	365+20.00	636.69	614.55	28.1
14	365+30.00	635.96	613.17	28.8
15	365+40.00	635.23	611.79	29.4
16	365+50.00	634.50	610.41	30.1
17	365+60.00	633.84	609.15	30.7
18	365+70.00	633.18	607.89	31.3
* 19	365+80.00	632.52	606.63	37.6

\* See sheet 6 of 21 for depth of rock socket.

Pile	* Dim. A
9, 11, 13, 15, 17	3'-9 1/2"
10, 12, 14, 16, 18	3'-0 3/4"

\* Dimensions are based on Top of Pile Elevations shown. If Top of Pile Elevations are different, A dimensions must be adjusted to ensure that the anchor is properly placed with respect to the Top of Cap as shown.

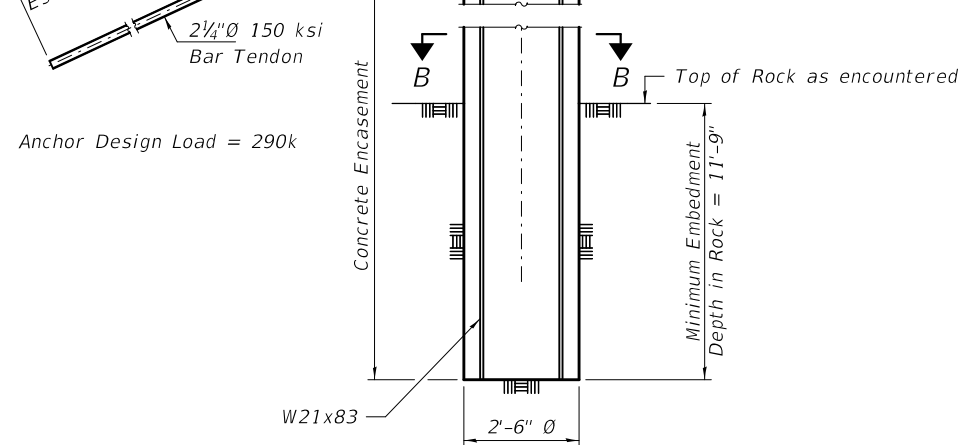
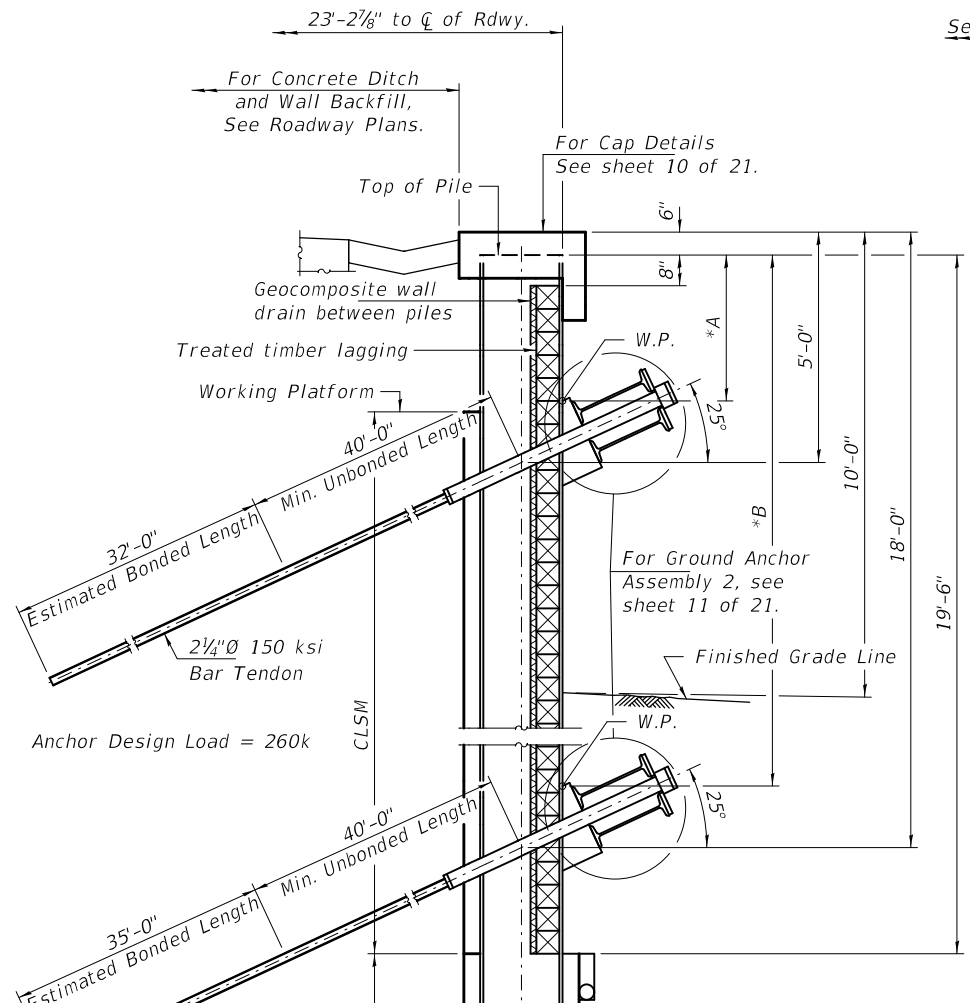
DESIGNED - WMK	EXAMINED - <i>Timothy A. Daulton</i>	DATE - DECEMBER 6, 2019
CHECKED - VHV	ENGINEER OF STRUCTURAL SERVICES	
DRAWN - daburdell	PASSED - <i>Carl Ringer</i>	REVISED -
CHECKED - WMK VHV	ENGINEER OF BRIDGES AND STRUCTURES	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

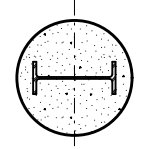
WALL CONFIGURATION - ZONE 2  
STA. 364+80 THRU 365+80 (PILES 9 - 18)  
SN 091-W001

SHEET NO. 5 OF 21 SHEETS

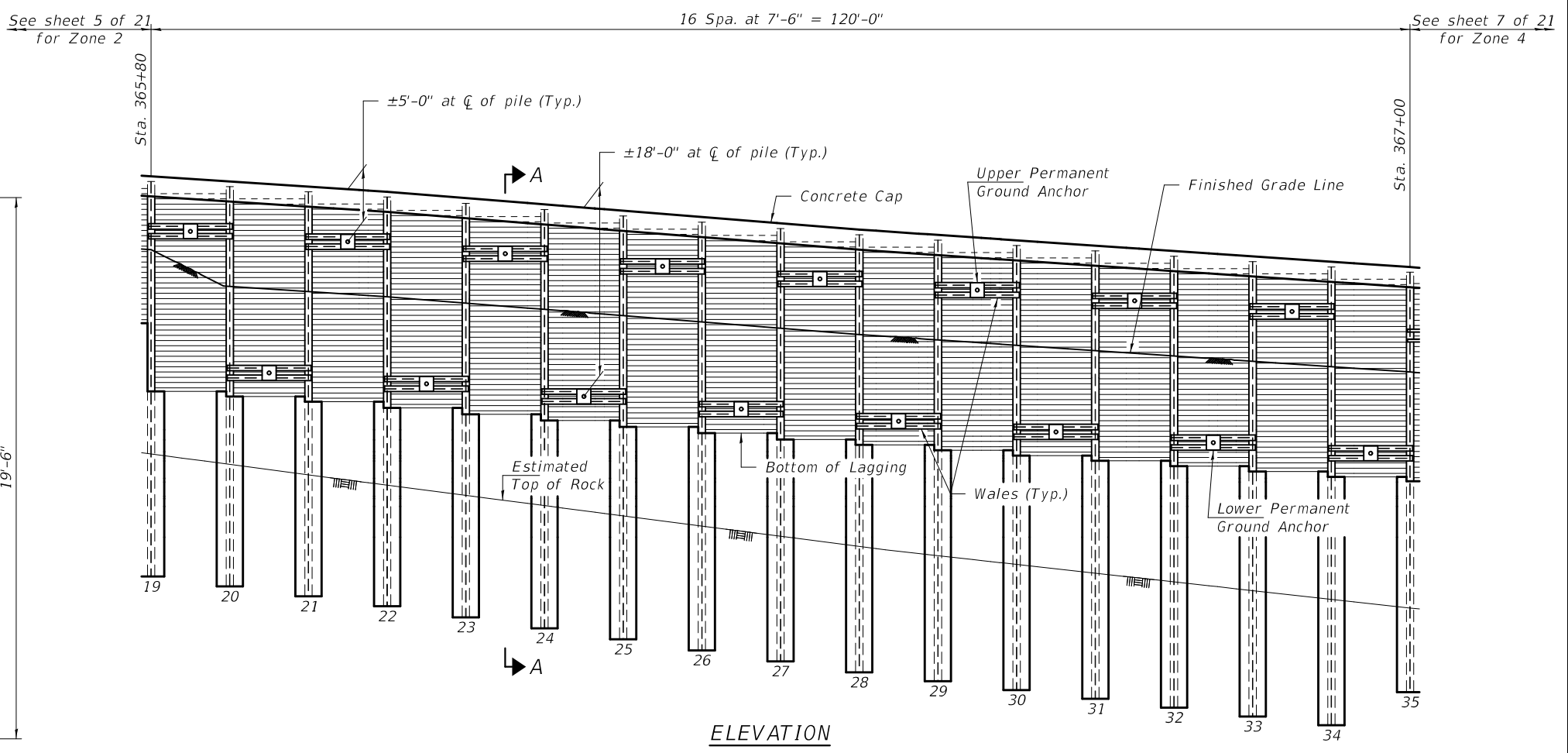
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1909	22 SLP-1	UNION	54	26
CONTRACT NO. 78611				
ILLINOIS FED. AID PROJECT				



SECTION A-A



SECTION B-B



ELEVATION

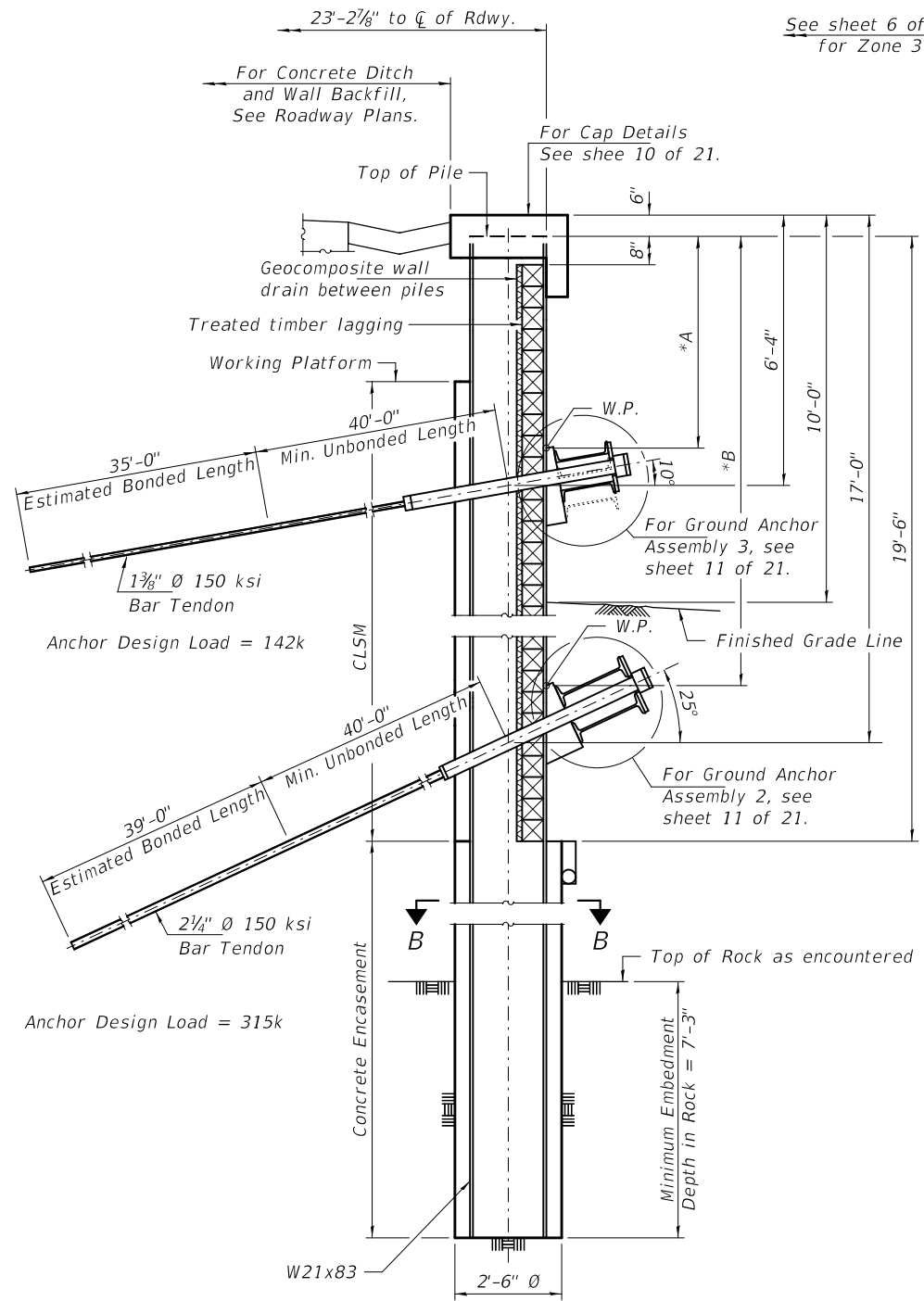
Pile #	Station	Top of Pile Elevation	Estimated Top of Rock Elevation	Estimated Length of Pile (ft)
19	365+80.00	632.52	606.63	37.6
20	365+87.50	632.03	605.69	38.1
21	365+95.00	631.53	604.74	38.5
22	366+02.50	631.04	603.80	39.0
23	366+10.00	630.44	602.75	39.4
24	366+17.50	629.84	601.70	39.9
25	366+25.00	629.24	600.65	40.3
26	366+32.50	628.64	599.60	40.8
27	366+40.00	628.04	598.55	41.2
28	366+47.50	627.44	597.50	41.7
29	366+55.00	626.93	596.66	42.0
30	366+62.50	626.42	595.82	42.4
31	366+70.00	625.91	594.98	42.7
32	366+77.50	625.40	594.14	43.0
33	366+85.00	624.89	593.30	43.3
34	366+92.50	624.38	592.46	43.7
* 35	367+00.00	623.87	591.62	39.5

\* See sheet 7 of 21 for depth of rock socket.

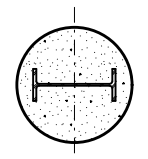
Notes:  
 For wedge plate, wale sections, trumpet and anchor plate, see sheet 11 of 21.  
 For geocomposite wall drain and treated timber lagging details, see sheet 12 of 21.  
 Cost of concrete encasement below the top of rock elevation is included in the cost of Drilling and Setting Soldier Piles in Rock.  
 Cost of concrete encasement above the top of rock elevation and CLSM material is included in the cost of Drilling and Setting Soldier Piles in Soil.

Pile	* Dim. A	* Dim. B
19, 21, 23, 25, 27, 29, 31, 33	3'-5 1/8"	
20, 22, 24, 26, 28, 30, 32, 34	2'-10 1/2"	
20, 22, 24, 26, 28, 30, 32, 34		16'-5 1/8"
21, 23, 25, 27, 29, 31, 33, 35		15'-11"

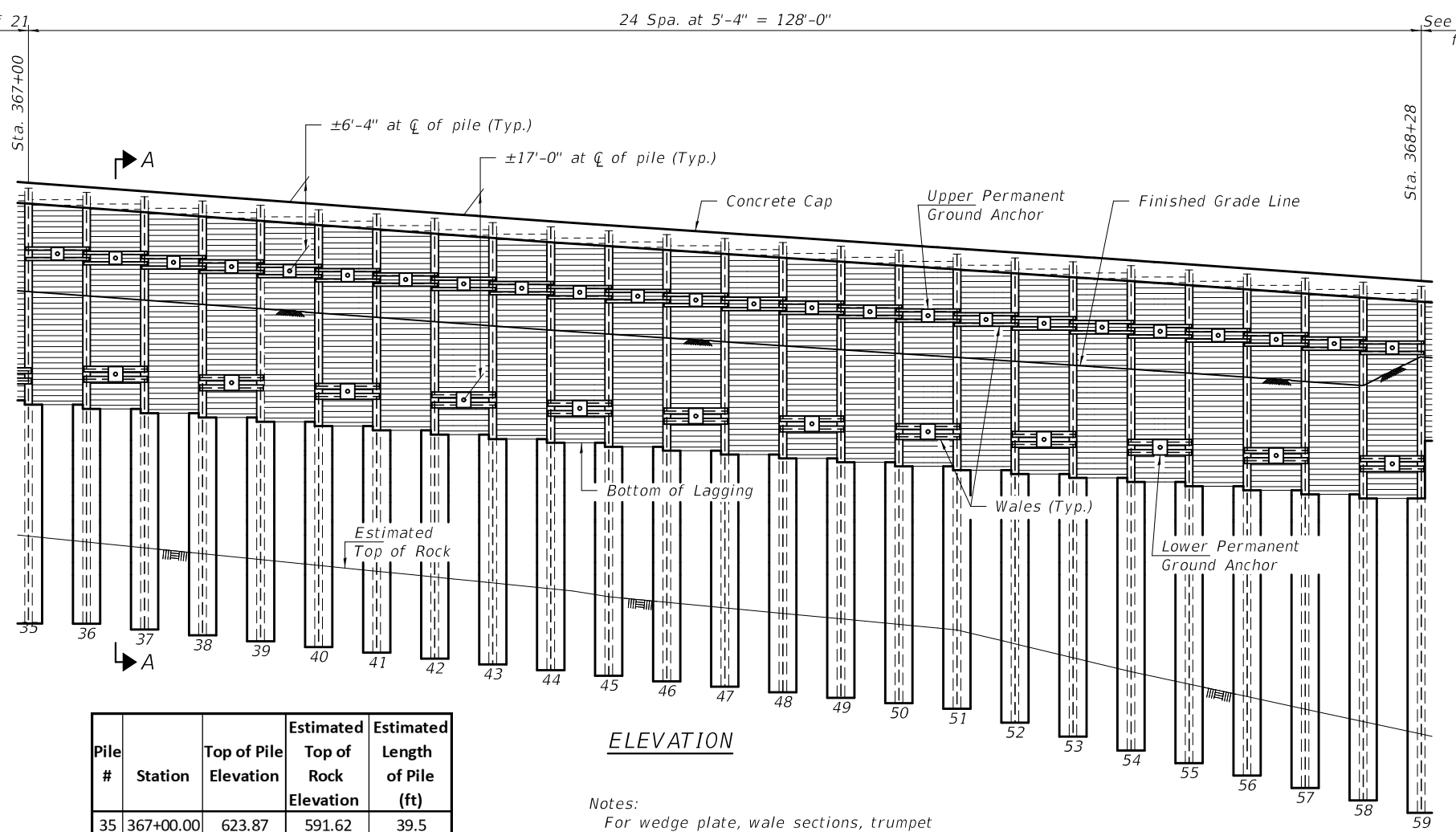
\* Dimensions are based on Top of Pile Elevations shown. If Top of Pile Elevations are different, A and B dimensions must be adjusted to ensure that the anchor is properly placed with respect to the Top of Cap as shown.



SECTION A-A



SECTION B-B



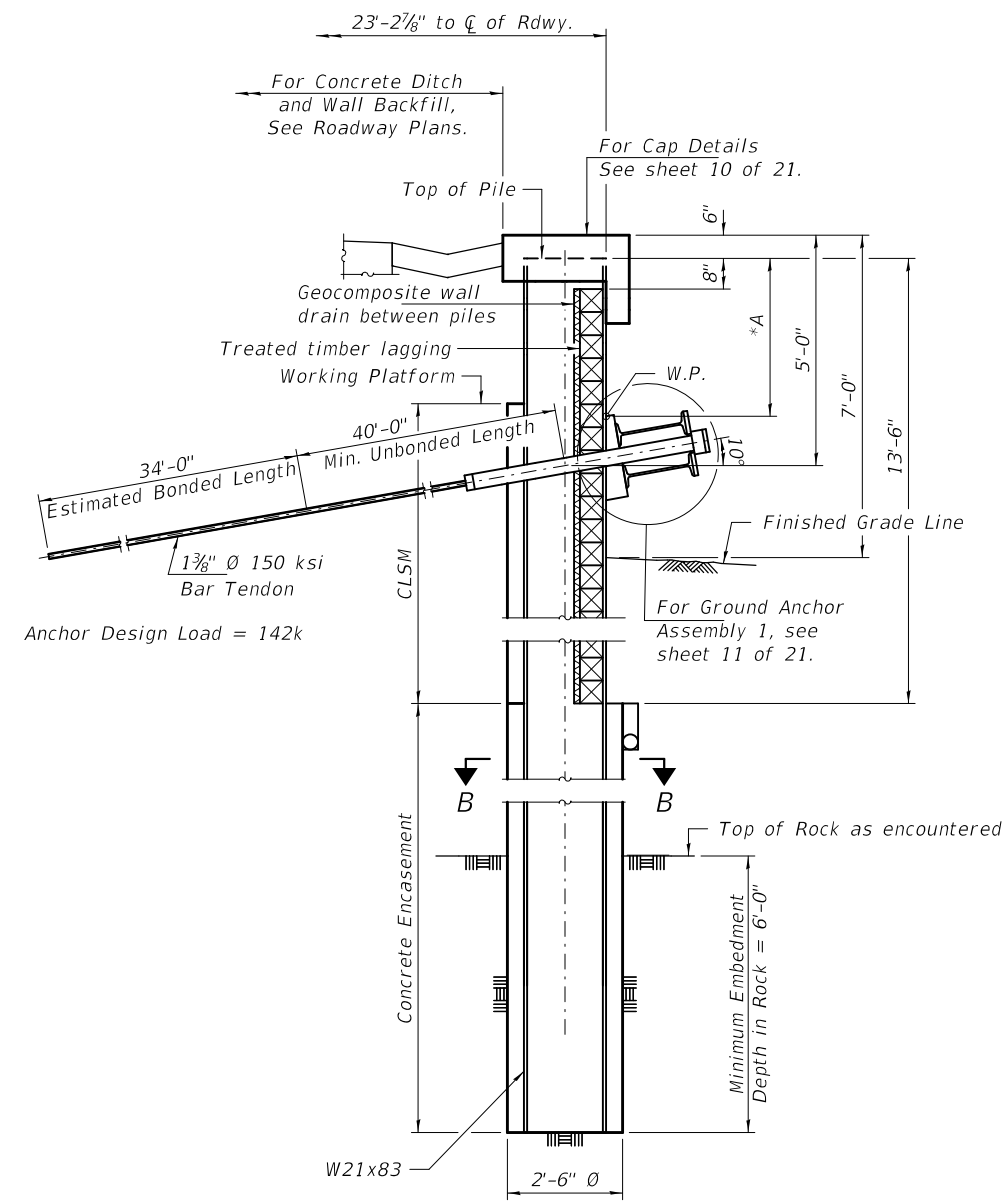
ELEVATION

Notes:  
 For wedge plate, wale sections, trumpet and anchor plate, see sheet 11 of 21.  
 For geocomposite wall drain and treated timber lagging details, see sheet 12 of 21.  
 Cost of concrete encasement below the top of rock elevation is included in the cost of Drilling and Setting Soldier Piles in Rock.  
 Cost of concrete encasement above the top of rock elevation and CLSM material is included in the cost of Drilling and Setting Soldier Piles in Soil.

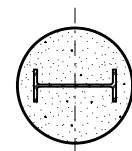
Pile #	Station	Top of Pile Elevation	Estimated Top of Rock Elevation	Estimated Length of Pile (ft)
35	367+00.00	623.87	591.62	39.5
36	367+05.33	623.47	591.08	39.6
37	367+10.67	623.08	590.55	39.8
38	367+16.00	622.68	590.02	39.9
39	367+21.33	622.29	589.48	40.1
40	367+26.67	621.89	588.95	40.2
41	367+32.00	621.50	588.42	40.3
42	367+37.33	621.10	587.88	40.5
43	367+42.67	620.71	587.35	40.6
44	367+48.00	620.31	586.82	40.8
45	367+53.33	619.96	586.31	40.9
46	367+58.67	619.60	585.80	41.1
47	367+64.00	619.24	585.30	41.2
48	367+69.33	618.88	584.79	41.4
49	367+74.67	618.53	584.28	41.5
50	367+80.00	618.17	583.78	41.6
51	367+85.33	617.81	583.27	41.8
52	367+90.67	617.45	581.99	42.7
53	367+96.00	617.10	580.71	43.6
54	368+01.33	616.74	579.43	44.6
55	368+06.67	616.36	578.28	45.3
56	368+12.00	615.98	577.14	46.1
57	368+17.33	615.60	575.99	46.9
58	368+22.67	615.22	574.84	47.6
59	368+28.00	614.85	573.70	48.4

Pile	* Dim. A	* Dim. B
35, 37, 39, 41, 43, 45, 47, 49, 51, 53, 55, 57, 59	5'-1 1/8"	
36, 38, 40, 42, 44, 46, 48, 50, 52, 54, 56, 58	4'-9 1/8"	
36, 38, 40, 42, 44, 46, 48, 50, 52, 54, 56, 58		15'-4 1/8"
37, 39, 41, 43, 45, 47, 49, 51, 53, 55, 57, 59		15'-0"

\* Dimensions are based on Top of Pile Elevations shown. If Top of Pile Elevations are different, A and B dimensions must be adjusted to ensure that the anchor is properly placed with respect to the Top of Cap as shown.

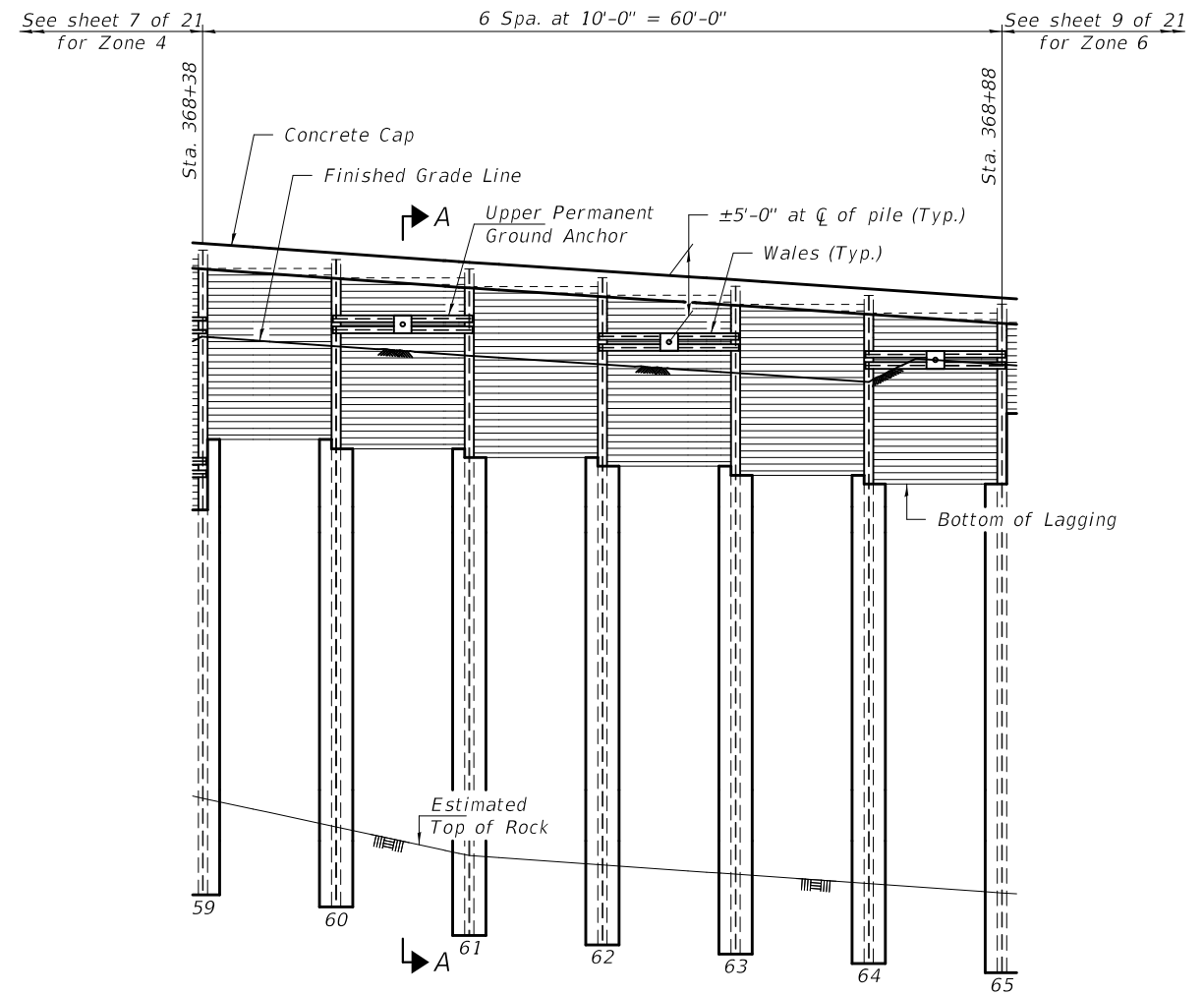


SECTION A-A



SECTION B-B

Pile #	Station	Top of Pile Elevation	Estimated Top of Rock Elevation	Estimated Length of Pile (ft)
59	368+28.00	614.85	573.70	48.4
60	368+38.00	614.14	571.55	48.6
61	368+48.00	613.43	569.40	50.0
62	368+58.00	612.78	568.70	50.1
63	368+68.00	612.10	568.00	50.1
64	368+78.00	611.45	567.30	50.2
65	368+88.00	610.80	566.60	50.2



ELEVATION

Notes:

- For wedge plate, wale sections, trumpet and anchor plate, see sheet 11 of 21.
- For geocomposite wall drain and timber lagging details, see sheet 12 of 21.
- Cost of concrete encasement below the top of rock elevation is included in the cost of Drilling and Setting Soldier Piles in Rock.
- Cost of concrete encasement above the top of rock elevation and CLSM material is included in the cost of Drilling and Setting Soldier Piles in Soil.

Pile	* Dim. A
60, 62, 64	3'-9 1/2"
61, 63, 65	3'-0 1/8"

\* Dimensions are based on Top of Pile Elevations shown. If Top of Pile Elevations are different, A dimensions must be adjusted to ensure that the anchor is properly placed with respect to the Top of Cap as shown.

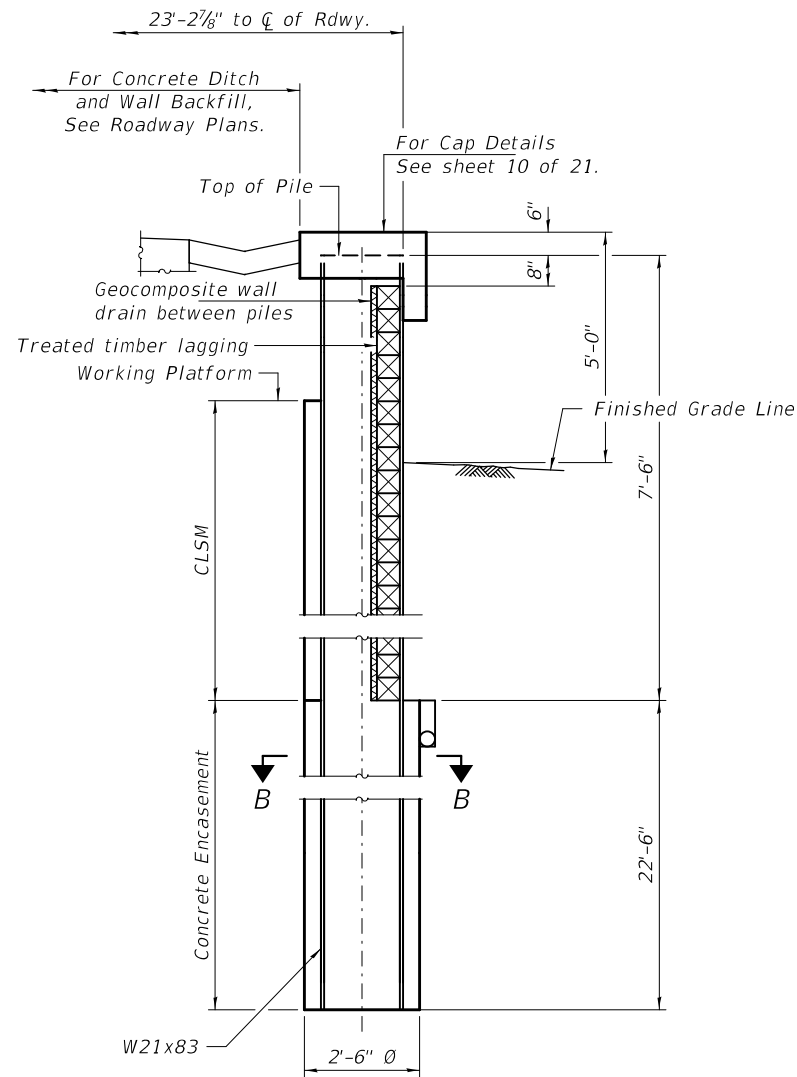
DESIGNED - WMK	EXAMINED - <i>Timothy A. Drell</i> ENGINEER OF STRUCTURAL SERVICES	DATE - DECEMBER 6, 2019
CHECKED - VHV	PASSED - <i>Carl Ringer</i> ENGINEER OF BRIDGES AND STRUCTURES	REVISED -
DRAWN - daburdell		REVISED -
CHECKED - WMK VHV		

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

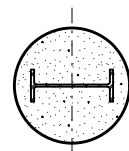
WALL CONFIGURATION - ZONE 5  
STA. 368+28 THRU 368+88 (PILES 60-65)  
SN 091-W001

SHEET NO. 8 OF 21 SHEETS

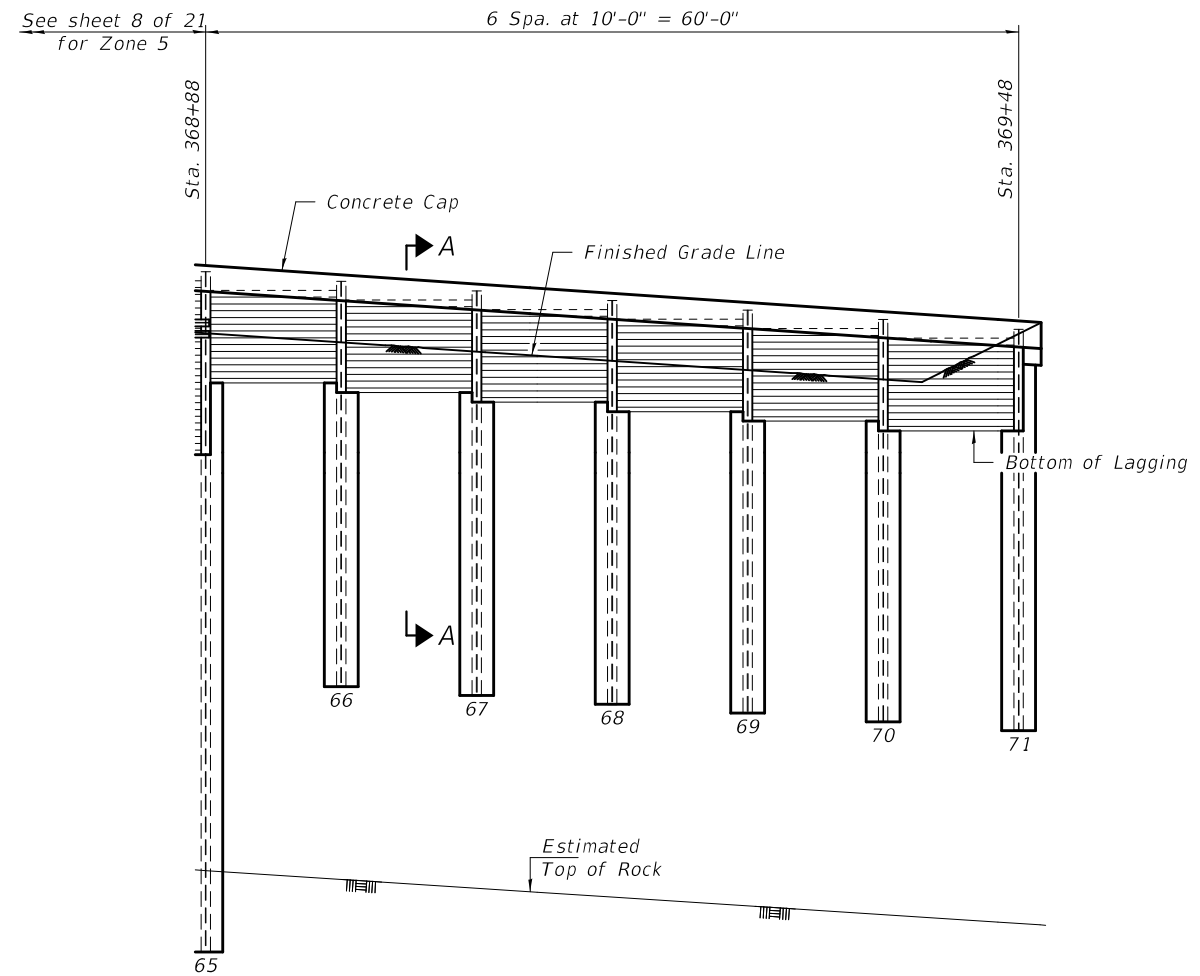
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1909	22 SLP-1	UNION	54	29
CONTRACT NO. 78611				
ILLINOIS FED. AID PROJECT				



SECTION A-A



SECTION B-B



ELEVATION

Pile #	Station	Top of Pile Elevation	Estimated Top of Rock Elevation	Min Tip Elevation
* 65	368+88.00	610.80	566.60	-
66	368+98.00	610.09	-	580.09
67	369+08.00	609.39	-	579.39
68	369+18.00	608.68	-	578.68
69	369+28.00	607.97	-	577.97
70	369+38.00	607.27	-	577.27
71	369+48.00	606.56	-	576.56

\* See sheet 8 of 21 for depth of rock socket.

Notes:  
 For geocomposite wall drain and timber lagging details, see sheet 12 of 21.  
 Cost of concrete encasement and CLSM material is included in the cost of Drilling and Setting Soldier Piles in Soil.

DESIGNED - WMK  
 CHECKED - VHV  
 DRAWN - daburdell  
 CHECKED - WMK VHV

EXAMINED  
 PASSED  
 ENGINEER OF STRUCTURAL SERVICES  
 ENGINEER OF BRIDGES AND STRUCTURES

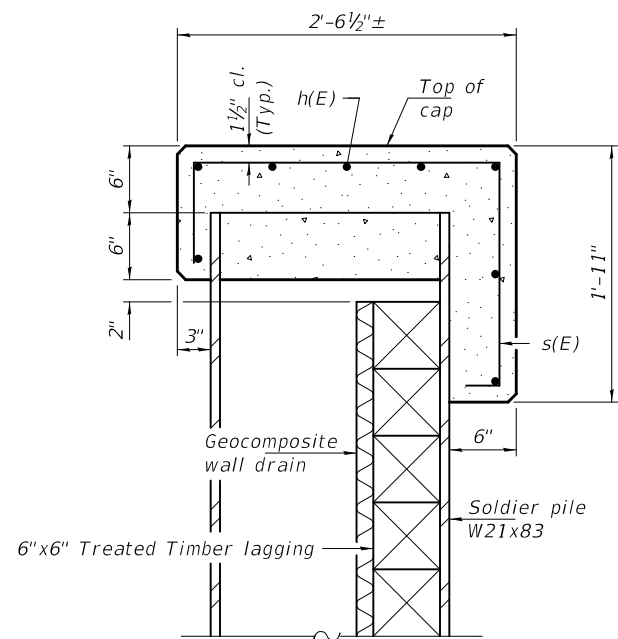
DATE - DECEMBER 6, 2019  
 REVISED -  
 REVISED -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

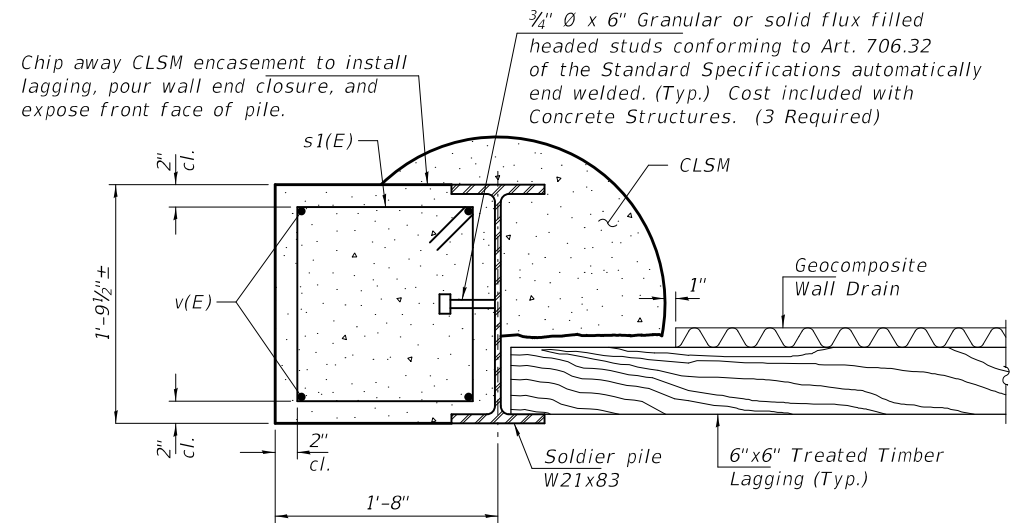
WALL CONFIGURATION - ZONE 6  
 STA. 368+88 THRU 369+48 (PILES 66 - 71)  
 SN 091-W001

SHEET NO. 9 OF 21 SHEETS

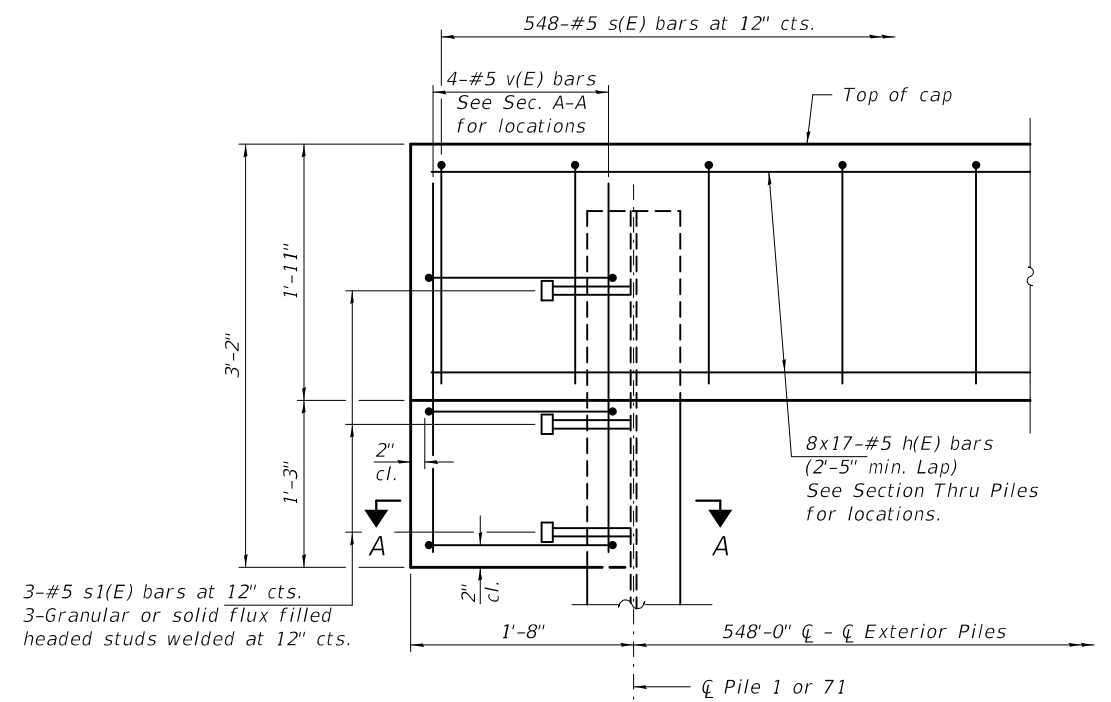
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1909	22 SLP-1	UNION	54	30
CONTRACT NO. 78611				
ILLINOIS FED. AID PROJECT				



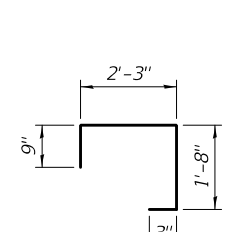
**SECTION THRU PILES**  
(Looking upstasion)



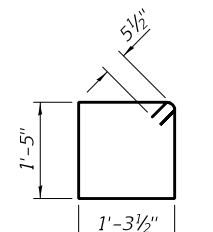
**SECTION A - A**



**TYPICAL END TREATMENT**



**BAR S(E)**



**BAR S1(E)**

**BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
h(E)	136	#5	34'-9"	—
s(E)	552	#5	4'-11"	□
s1(E)	6	#5	6'-4"	□
v(E)	8	#5	2'-10"	—
Concrete Structures			Cu. Yd.	61.2
Reinforcement Bars, Epoxy Coated			Pound	7830

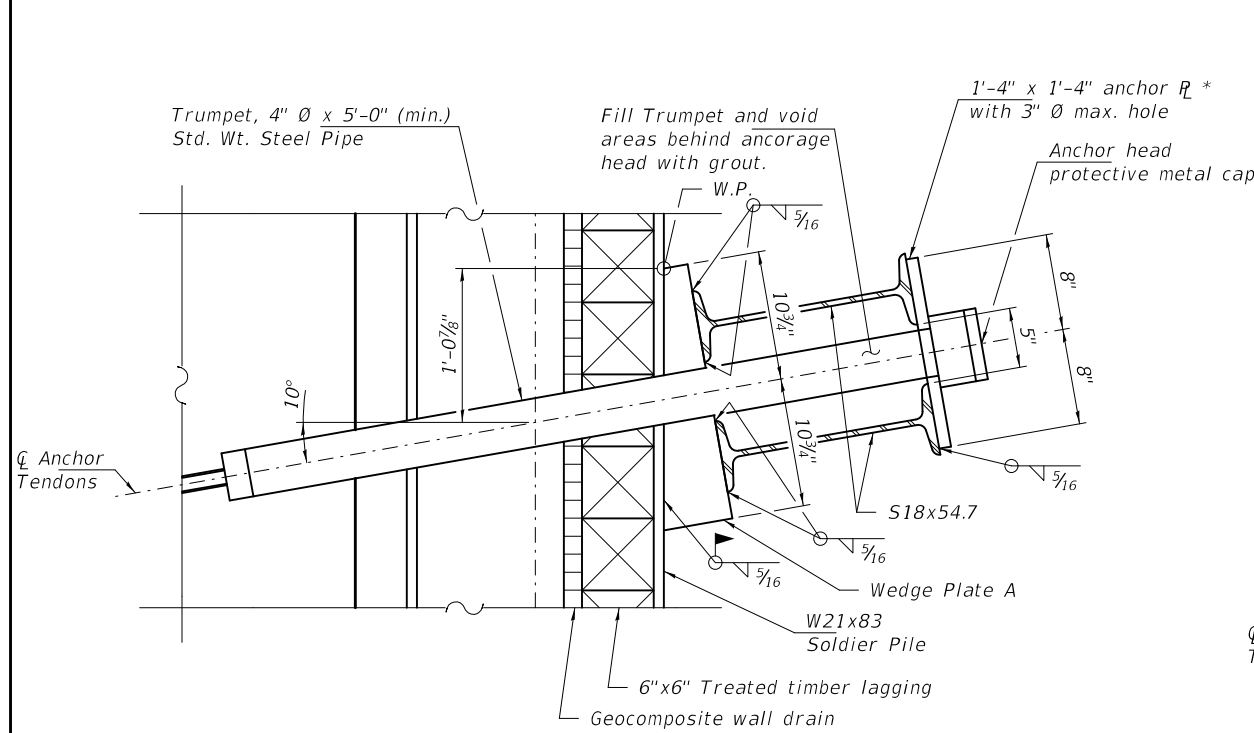
DESIGNED - WMK	EXAMINED - <i>Timothy A. Daburdell</i>	DATE - DECEMBER 6, 2019
CHECKED - VHV	ENGINEER OF STRUCTURAL SERVICES	
DRAWN - <i>daburdell</i>	PASSED - <i>Carl R. Roper</i>	REVISED -
CHECKED - WMK VHV	ENGINEER OF BRIDGES AND STRUCTURES	REVISED -

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

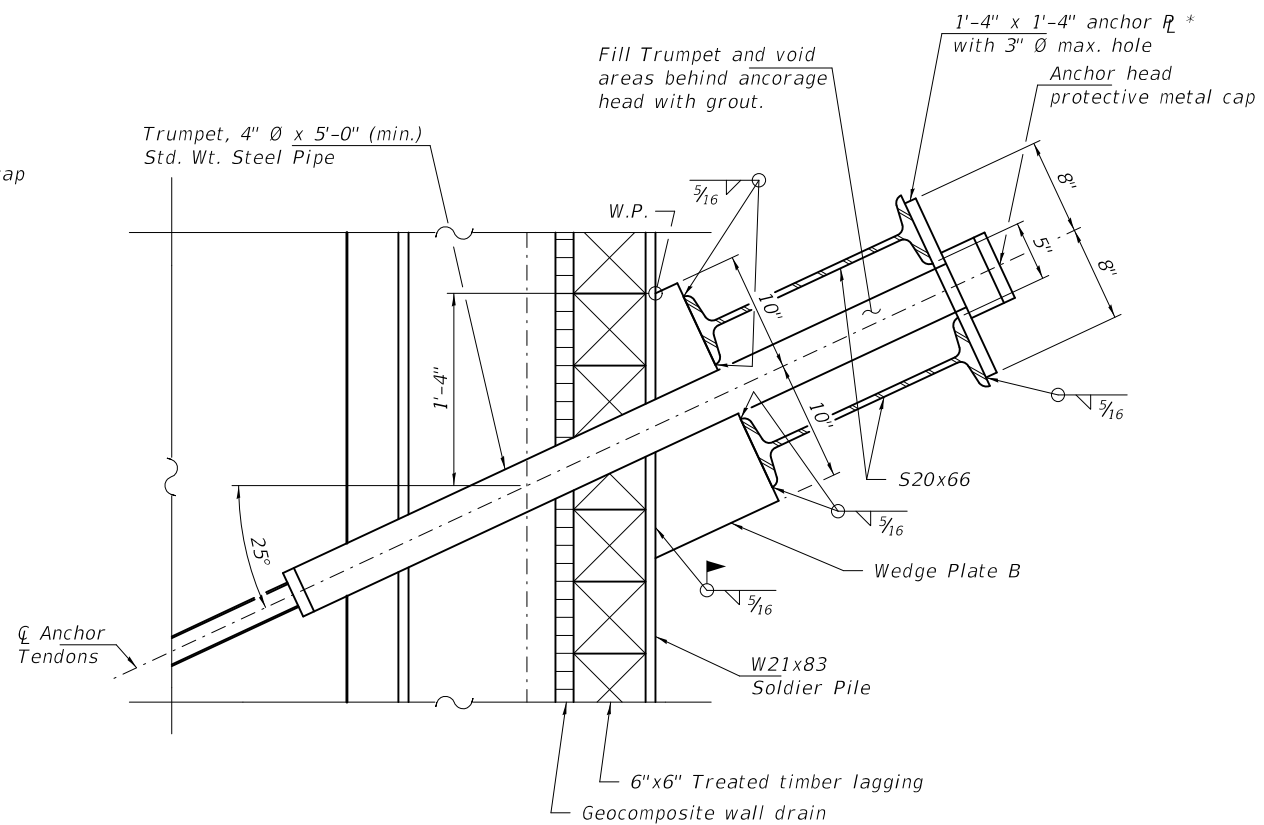
**WALL CAP DETAILS**  
**SN 091-W001**

SHEET NO. 10 OF 21 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1909	22 SLP-1	UNION	54	31
CONTRACT NO. 78611				
ILLINOIS FED. AID PROJECT				

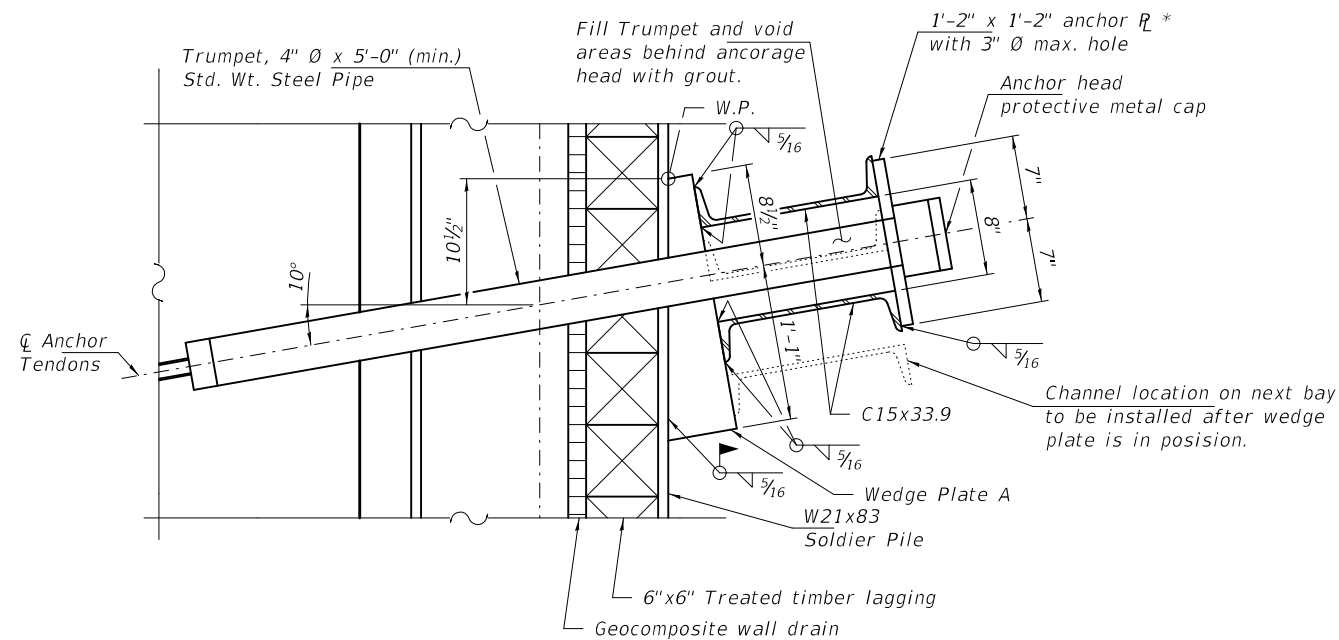


**GROUND ANCHOR ASSEMBLY 1**

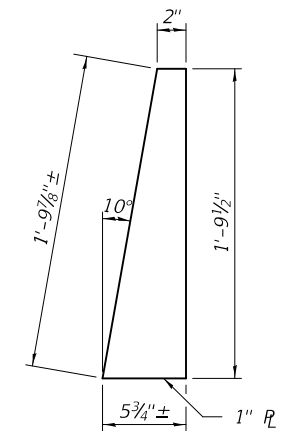


**GROUND ANCHOR ASSEMBLY 2**

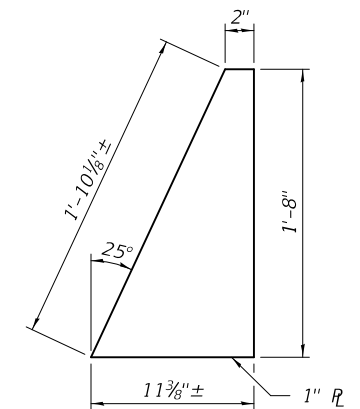
\* See anchor  $R_c$  thickness in table.



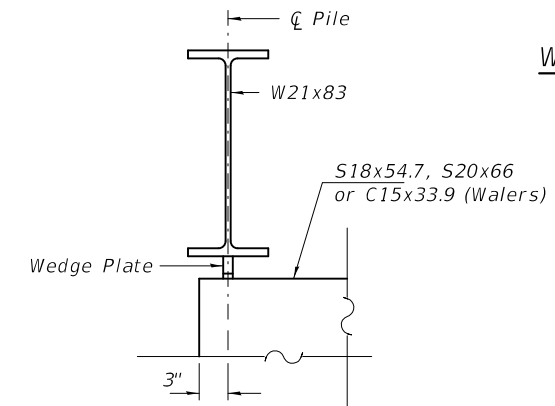
**GROUND ANCHOR ASSEMBLY 3**



**WEDGE PLATE A**  
(91 Required)



**WEDGE PLATE B**  
(56 Required)



**PLAN**

Typical at Soldier Pile where walers are being used.

ZONE	Upper Ground Anchor				Lower Ground Anchor			
	Assembly Type	Wedge Plate	Wale Length	Anchor PL Thickness	Assembly Type	Wedge Plate	Wale Length	Anchor PL Thickness
2	1	A	10' - 6"	2 1/2"	n/a	n/a	n/a	n/a
3	2	B	8' - 0"	3 1/2"	2	B	8' - 0"	3 1/2"
4	3	A	5' - 10"	3 1/2"	2	B	5' - 10"	3 1/2"
5	1	A	10' - 5"	2 1/2"	n/a	n/a	n/a	n/a

Note:  
Cost of Wales, Wedge Plates, Anchor Plates is included with Furnishing and Erecting Structural Steel. Cost of Trumpet is included with Permanent Ground Anchors.

DESIGNED - WMK	EXAMINED - <i>Timothy A. Daburdell</i>	DATE - DECEMBER 6, 2019
CHECKED - VHV	ENGINEER OF STRUCTURAL SERVICES	
DRAWN - <i>daburdell</i>	PASSED - <i>Carl R. King</i>	REVISED -
CHECKED - WMK VHV	ENGINEER OF BRIDGES AND STRUCTURES	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

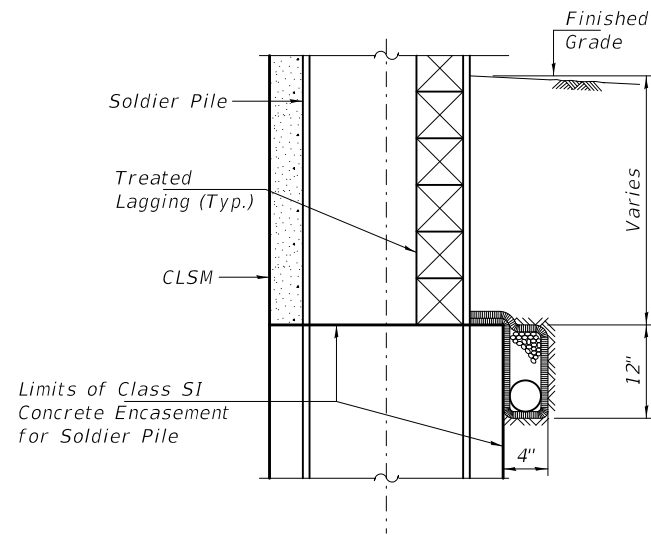
GROUND ANCHOR ASSEMBLY DETAILS  
SN 091-W001

SHEET NO. 11 OF 21 SHEETS

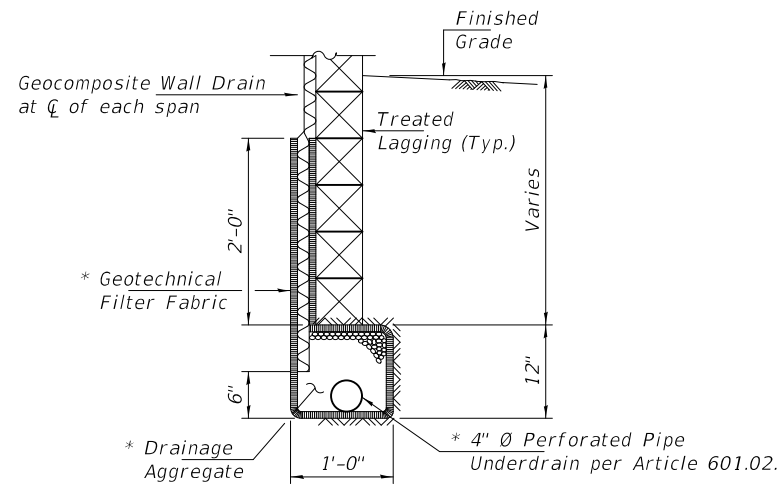
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1909	22 SLP-1	UNION	54	32
CONTRACT NO. 78611				

ILLINOIS FED. AID PROJECT



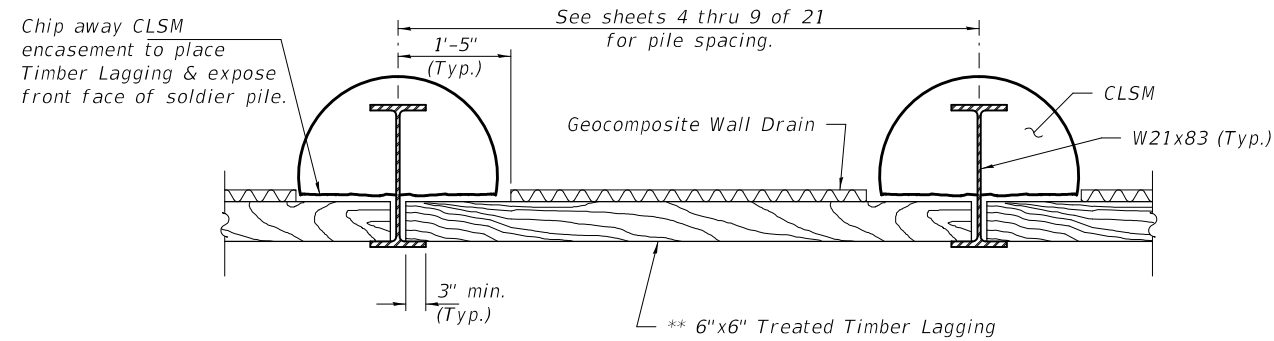


**SECTION OF DRAIN AT SOLDIER PILE**  
(Looking South)



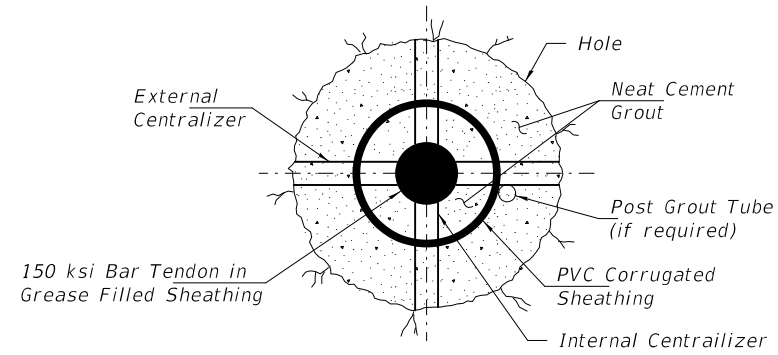
**SECTION OF DRAIN BETWEEN SOLDIER PILES**  
(Looking South)

\* Cost included with Pipe Underdains for Structures 4".



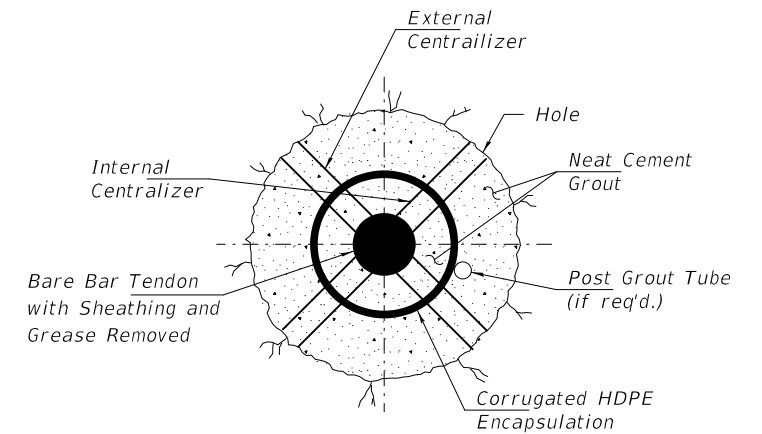
**TYPICAL SECTION BETWEEN PILES**

\*\* Treated Timber dimensions are nominal.



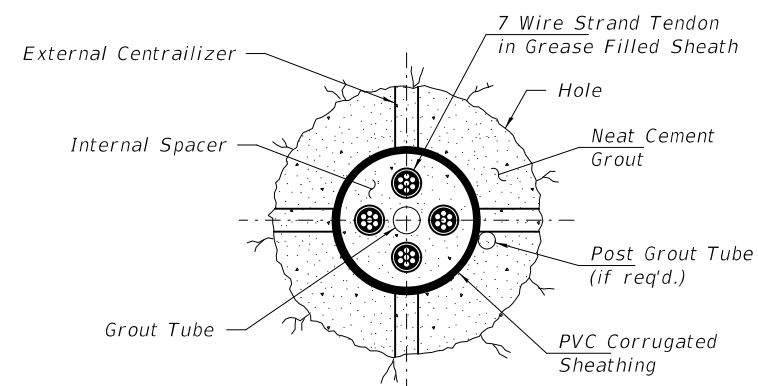
**BAR TENDON DETAIL**

(Unbonded)



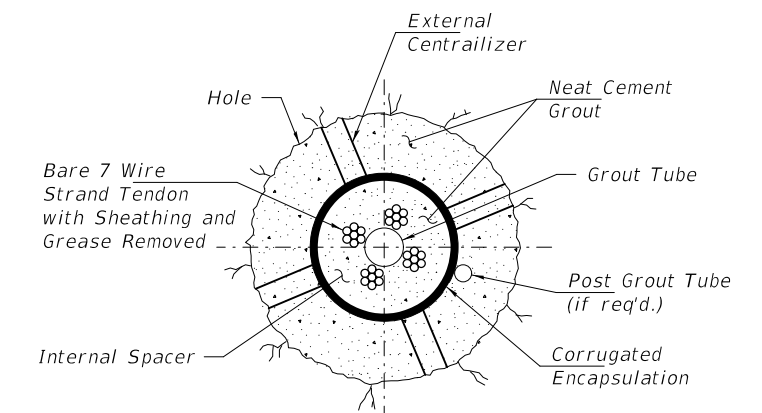
**BAR TENDON DETAIL**

(Bonded)



**STRAND TENDON DETAIL**

(Unbonded)



**STRAND TENDON DETAIL**

(Bonded)

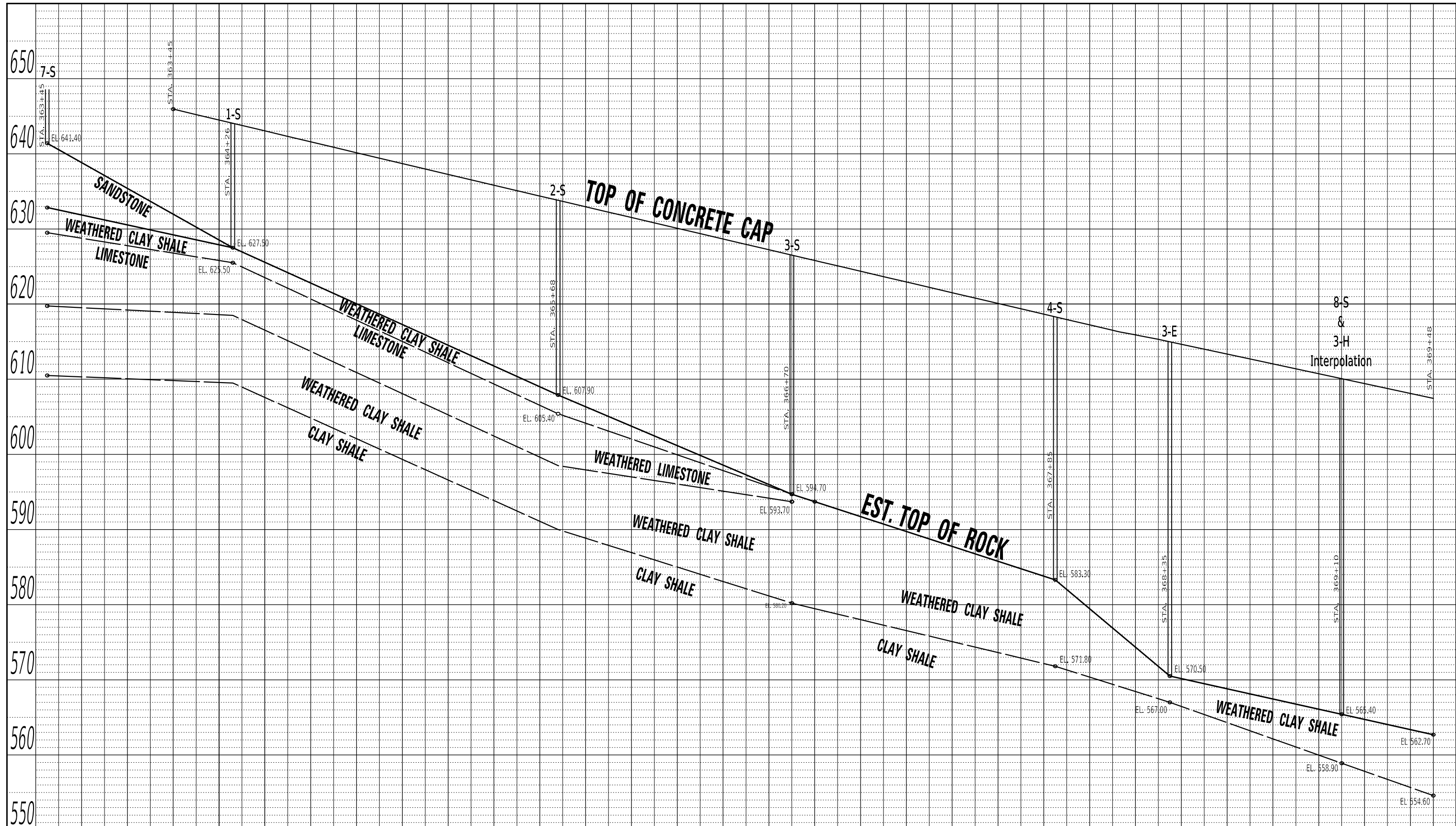
DESIGNED - WMK	EXAMINED	DATE - DECEMBER 6, 2019
CHECKED - VHV	<i>Timothy A. Daburdell</i> ENGINEER OF STRUCTURAL SERVICES	
DRAWN - daburdell	PASSED	REVISED -
CHECKED - WMK VHV	<i>Carl R. Rieger</i> ENGINEER OF BRIDGES AND STRUCTURES	REVISED -

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

**DRAINAGE AND ANCHOR EMBEDMENT DETAILS**  
**SN 091-W001**

SHEET NO. 12 OF 21 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1909	22 SLP-1	UNION	54	33
CONTRACT NO. 78611				
ILLINOIS FED. AID PROJECT				



ESTIMATED TOP OF ROCK ELEVATION AT WALL OFFSET

**DRAFT**  
 DATE: 10/4/2019

640.85	638.65	635.39	633.68	631.96	630.25	628.53	626.95	625.57	624.19	622.81	621.43	620.05	618.67	617.29	615.91	614.53	613.15	611.76	610.38	609.00	607.64	606.35	605.05	603.76	602.46	601.17	599.88	598.58	597.29	595.99	594.70	593.71	592.72	591.73	590.73	589.74	588.75	587.76	586.77	585.78	584.79	583.80	582.02	579.46	576.90	574.34	571.78	570.16	569.48	568.80	568.13	567.45	566.77	566.09	565.41	564.73	564.06	563.38	562.70
--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------

DESIGNED - WMK  
 CHECKED - VHV  
 DRAWN - daburdell  
 CHECKED - WMK VHV

EXAMINED  
 PASSED  
 ENGINEER OF STRUCTURAL SERVICES  
 ENGINEER OF BRIDGES AND STRUCTURES

DATE - DECEMBER 6, 2019  
 REVISED -  
 REVISED -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

ESTIMATED BEDROCK GEOLOGICAL PROFILE  
 SN 091-W001

SHEET NO. 13 OF 21 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1909	22 SLP-1		54	34
CONTRACT NO. 78611				

ILLINOIS FED. AID PROJECT

ILLINOIS DEPARTMENT OF TRANSPORTATION				Bridge Foundation Boring Log			
District Nine Materials				Sheet 1 of 1			
IL Rte 127 Slope Failure South of Alto Pass				Date: 10/17/2017			
Route: FAS 1909 IL 127		Structure Number: _____		Bored By: R Moberly		Checked By: A Hayes	
Section 22 SLP-1				Location: 0.33 miles South of SN 091-0047			
County: Union				Ground Surface: 644.1 Ft			
Boring No 1-S	D	B	Qu	Surf Wat Elev:	D	B	Qu
Station 364+26	E	L	tsf	Ground Water Elevation	P	L	tsf
Offset 14' Rt CL	P	O	W%	when Drilling _____	T	O	W%
Ground Surface	H	S	W%	At Completion _____	H	S	W%
				At: _____			
				Hrs: _____			
Crushed aggregate				Borehole advanced with hollow stem auger (8" O.D., 3.25" I.D.)			
642.1				To convert "N" values to "N60" multiply by 1.25			
Soft, very moist, brown, Silty Clay A-6							
639.1	5.0				30.0		
Stiff to very stiff, moist, brown, Silty Clay A-6		2	15				
		3	2.0P				
		4					
636.6							
Stiff, moist, brown and grey, Clay A7-6		2	19				
		2	1.2S				
		4					
10.0					35.0		
		2					
		3	1.2S				
		4					
632.1							
Hard, dry, grey, Limestone boulder							
631.1							
Very stiff, moist, brown, Clay A7-6							
628.6	15.0				40.0		
		4					
Hard, dry, grey and brown, Clay Shale		100/11"					
626.6							
Hard, dry, grey, Limestone with Clay seams and vertical fractures							
Cored 36" 83% Recovery, 33% RQD							
20.0					45.0		
623.6							
Bottom of hole = 20.5 feet							
No free water observed							
Elevation referenced to BM at P.E. WP #1 = 613.2 feet							
25.0					50.0		

N-Std Pentr Test: 2" OD Sampler, 140# Hammer, 30" Fall (Type Fail. B-Bulge S-Shear E-Estimated P-Penetrometer)

BORING 1-S

ILLINOIS DEPARTMENT OF TRANSPORTATION				Bridge Foundation Boring Log			
District Nine Materials				Sheet 1 of 1			
IL Rte 127 Slope Failure South of Alto Pass				Date: 10/24/2017			
Route: FAS 1909 IL 127		Structure Number: _____		Bored By: R Moberly		Checked By: A Hayes	
Section 22 SLP-1				Location: 0.33 miles South of SN 091-0047			
County: Union				Ground Surface: 633.4 Ft			
Boring No 2-S	D	B	Qu	Surf Wat Elev:	D	B	Qu
Station 365+68	E	L	tsf	Ground Water Elevation	P	L	tsf
Offset 15' Rt CL	P	O	W%	when Drilling _____	T	O	W%
Ground Surface	H	S	W%	At Completion _____	H	S	W%
				At: _____			
				Hrs: _____			
Loose Crushed aggregate				Very stiff, moist, grey, Clay to weathered Clay Shale		5	2.3B
						11	25
				606.4			
				Auger refusal, Limestone		605.9	100/0"
				Augers kicked out of plumb at 15'			
628.9							
Riprap	5.0	4		Unable to advance core barrel		30.0	
627.9		3					
Medium, moist to very moist, brown, Silty Clay A-6 with Gravel		4	0.8E	Limestone outcropping noted on slope below and slightly north of the borehole location			
626.4							
Medium, very moist, brown and grey, Clay A7-6		4	0.9B	Bottom of hole = 27.0 feet			
		3		No free water observed			
		3					
623.9							
Stiff, moist, brown and grey, Clay A7-6	10.0	2		Elevation referenced to BM at P.E. WP #1 = 613.2 feet		35.0	
		4	1.4B				
		6		Borehole advanced with hollow stem auger (8" O.D., 3.25" I.D.)			
621.4				To convert "N" values to "N60" multiply by 1.25			
Loose to medium dense, damp, broken Sandstone with layers and pockets of soft, very moist, Clay A-6 and Boulders		3					
		3	18				
		3					
15.0	7					40.0	
	7						
	4						
616.9							
Stiff, moist, grey and brown, Clay to Silty Clay A7-6		1					
		3	1.6B				
		3					
20.0	1					45.0	
	3	1.4S	23				
	3						
	1						
	2	1.5B	25				
	3						
608.9							
	25.0	2				50.0	

N-Std Pentr Test: 2" OD Sampler, 140# Hammer, 30" Fall (Type Fail. B-Bulge S-Shear E-Estimated P-Penetrometer)

BORING 2-S

DESIGNED - WMK  
CHECKED - VHV  
DRAWN - daburdell  
CHECKED - WMK VHV

EXAMINED  
PASSED  
\_\_\_\_\_  
ENGINEER OF STRUCTURAL SERVICES  
\_\_\_\_\_  
ENGINEER OF BRIDGES AND STRUCTURES

DATE - DECEMBER 6, 2019  
REVISED -  
REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

BORING LOGS  
SN 091-W001

SHEET NO. 14 OF 21 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1909	22 SLP-1	UNION	54	35
CONTRACT NO. 78611				
ILLINOIS		FED. AID PROJECT		







ILLINOIS DEPARTMENT OF TRANSPORTATION  
 District Nine Materials  
 IL Rte 127 Slope Failure South of Alto Pass  
 Route: FAS 1909 IL 127 Structure Number: \_\_\_\_\_ Date: 12/11/2018  
 Section 22 SLP-1 Bored By: L Estel  
 County: Union Location: 0.33 miles South of SN 091-0047 Checked By: A Hayes

Boring No. 8-S Station 369+10 Offset 40' RT of CL Ground Surface 608.8 Ft	D E P T H	B L O W S	Qu tsf	W%	Surf Wat Elev:	D E P T H	B L O W S	Qu tsf	W%
					Ground Water Elevation when Drilling At Completion At: Hrs:				
(Augered 50.6 feet to Bedrock)									
	5.0					30.0			
	10.0					35.0			
	15.0					40.0			
	20.0					45.0			
	25.0					50.0			

N-Std Pentr Test: 2" OD Sampler, 140# Hammer, 30" Fall (Type Fail. B-Bulge S-Shear E-Estimated P-Penetrometer)

Sheet 2 of 2  
 Date: 12/11/2018  
 Route: FAS 1909 IL 127  
 Section: 22 SLP-1  
 County: Union

Boring No. 8-S Station 369+10 Offset: 40' RT of CL Ground Surface: 608.8 Ft	D E P T H	B L O W S	Qu tsf	W%	Surf Wat Elev:	D E P T H	B L O W S	Qu tsf	W%
(Auger Refusal) 558.3									
Hard Grey, Dry Weathered CLAY SHALE		100/3"							
	55.0					80.0			
	60.0					85.0			
	65.0					90.0			
	70.0					95.0			
	75.0					100.0			

N-Std Pentr Test: 2" OD Sampler, 140# Hammer, 30" Fall (Type Fail. B-Bulge S-Shear E-Estimated P-Penetrometer)

Inclinometer pipe installed. Pipe Length = 51.8 feet. Bottom of Pipe @ Elev. = 558.2  
 Bottom of hole @ 50.6 feet  
 No free water observed  
 Elevation reference to BM WP #1, Sta 368+46 @ 26.7' LT Elev. = 613.15  
 Borehole advanced with hollow stem auger (8" OD, 3.25" ID)  
 To convert "N" values to "N60" multiply by 1.5

BORING 8-S

ILLINOIS DEPARTMENT OF TRANSPORTATION District Nine Materials				Bridge Foundation Boring Log			
IL Rte 127 Slope Failure South of Alto Pass				Sheet 1 of 1			
Route: FAS 1909 IL 127 Structure Number: _____				Date: 5/2/2017			
Section 22 SLP-1				Bored By: R Moberly			
County: Union				Location: 0.33 miles south of SN 091-0047			
Checked By: R Moberly							
Boring No 3-E	D	B		Surf Wat Elev:	D	B	
Station 368+35	E	L		Ground Water Elevation	E	L	
Offset 10' Rt CL	P	O	Qu	when Drilling	P	O	Qu
Ground Surface 615.0 Ft	T	W	tsf	At Completion	T	W	tsf
	H	S	W%	At: Hrs:	H	S	W%
Asphalt and oil and chip with gravel				Stiff to very stiff, moist to very moist, brown, Clay A7-6			Augered
611.5							
Medium to stiff, moist to very moist brown. Silty Clay to Clay A-6				Augered			
5.0				+++++			
				Free water encountered @ 40 feet			
				Borehole was filled at completion			
				Augers were advanced to determine depth to bedrock			
				Borehole advanced with hollow stem auger (8" O.D., 3.25" I.D.)			
10.0				To convert "N" values to "N60" multiply by 1.25			
				+++++			
15.0				575.0			40.0
				In the 40' to 45' range a sandy layer was encountered with free water. Depth is an estimate based on auger cuttings			Augered
595.0				570.0			45.0
				Stiff to very stiff, moist to very moist, brown, Clay A7-6			Augered
				568.0			
				Hard, dry, grey, Clay Shale			15
				567.0			100/6"
				Bottom of hole = 48.0 feet			
				Elevation provided by IDOT			
25.0				50.0			

N-Std Pentr Test: 2" OD Sampler, 140# Hammer, 30" Fall (Type Fail. B-Bulge S-Shear E-Estimated P-Penetrometer)

BORING 3-E

ILLINOIS DEPARTMENT OF TRANSPORTATION District Nine Materials				Bridge Foundation Boring Log			
IL Rte 127 Slope Failure South of Alto Pass				Sheet 1 of 1			
Route: FAS 1909 IL 127 Structure Number: _____				Date: 5/15/2017			
Section 22 SLP-1				Bored By: R Moberly			
County: Union				Location: 0.33 miles South of SN 091-0047			
Checked By: R Moberly							
Boring No 1H	D	B		Surf Wat Elev:	D	B	
Station 366+77	E	L		Ground Water Elevation	E	L	
Offset 71' Rt CL	P	O	Qu	when Drilling	P	O	Qu
Ground Surface 600.5 Ft	T	W	tsf	At Completion	T	W	tsf
	H	S	W%	At: 48 Hrs: 582.4	H	S	W%
Medium, very moist, brown, Silty Clay A-6				Hard, damp, grey, Weathered Clay Shale			
				574.0			28
				WH			
				2 0.6S 25			52
				3			60/40"
597.0							
Stiff, moist, brown, Silty Clay A-6				3			31
				3 1.0B 24			42
5.0				5			30.0 60/3"
				2			55
				3 1.3B 22			78
				5			100/6"
				2			49
				3 1.2B 23			76
10.0				5			100/5"
				589.5			565.5 35.0
Stiff, moist, brown, Clay to Silty Clay A7-6				2			
				5 1.9B 22			
				7			
586.5				2			
Hard, damp, grey, Weathered Clay Shale				5 4.5P 18			
15.0				9			40.0
584.5							
Very stiff, damp, grey, Weathered Clay Shale				3			
				7 3.8P 19			
				11			
				8			
				10 3.5P 15			
20.0				19			45.0
				11			
				24 3.5P 13			
				36			
577.0							
Hard, damp, grey, Weathered Clay Shale				10			
				25 4.0P 13			
25.0				37			50.0

N-Std Pentr Test: 2" OD Sampler, 140# Hammer, 30" Fall (Type Fail. B-Bulge S-Shear E-Estimated P-Penetrometer)

BORING 1H



ILLINOIS DEPARTMENT OF TRANSPORTATION District Nine Materials				Bridge Foundation Boring Log			
IL Rte 127 Slope Failure South of Alto Pass				Sheet 1 of 1			
Route: FAS 1909 IL 127		Structure Number: _____		Date: 5/15/2017			
Section 22 SLP-1		Location: 0.33 miles South of SN 091-0047		Bored By: R Moberly		Checked By: R Moberly	
County: Union							
Boring No 2H	D	B		Surf Wat Elev:	D	B	
Station 368+03	E	L		Ground Water Elevation	E	L	
Offset 87' Rt CL	P	O		when Drilling	P	O	
Ground Surface 587.6 Ft	T	W	Qu	At Completion	T	W	Qu
	H	S	tsf	At: 24 Hrs: 586.0 *	H	S	tsf
			W%				W%
Soft, very moist, brown, Silty Clay A-6				Hard, dry, grey, Clay Shale			
		WH				67	
		1	0.4B			100/4"	
		2					
584.1							
Stiff, moist to very moist, brown, Silty Clay A-6		1				100/6"	
		2	1.0S				
		3				30.0	
581.6							
Stiff, moist, brown, Clay to Silty Clay A7-6		2		Refusal		555.6	
		5	1.2B				
		3					
579.1				Cored 32.0 to 37.0 feet			
Stiff, moist, brown, Clay A7-6		2		100% Recovery; 70% RQD			
		3	1.7B				
		4		Hard, dry, grey, Limestone		35.0	
576.6							
Very stiff to hard, damp, grey, Weathered Clay Shale		3					
		4	3.0P			550.6	
		7					
				Cored 37.0 to 42.0 feet			
		4		88% Recovery; 70% RQD			
		10	4.0P				
		14		Hard, dry, grey, Limestone		40.0	
573.6							
		9					
		14	3.8P			545.6	
		19					
				Bottom of hole = 42.0 feet			
		4		Free water observed at 28.5 feet			
		7	4.5P				
		11		Elevation provide by IDOT survey		45.0	
				Samples tested for Qu were obtained and placed in glass jars on 5/15/17, and tested by IDOT on 5/18/17. Some drying may have occurred resulting in an increase in strength.			
		11					
		21	3.5P				
		38					
563.6							
Hard, dry, grey, Clay Shale		17					
		28					
		25.0	100/6"			50.0	

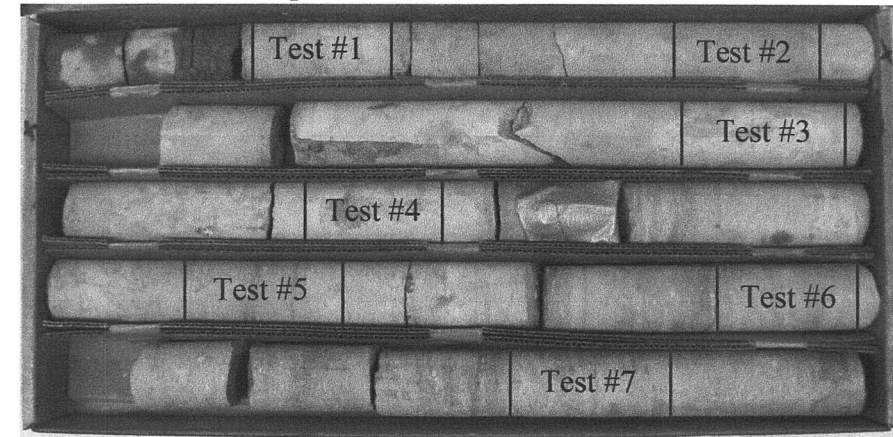
N-Std Penetr Test: 2" OD Sampler, 140# Hammer, 30" Fall (Type Fail. B-Bulge S-Shear E-Estimated P-Penetrometer)

BORING 2H

Illinois Department of Transportation  
District Nine Materials  
Unconfined Compressive Strength

IL 127  
Alto Pass Slope Failure  
Union County

32' to 42' Core Samples



Boring #	Specimen#	Depth	Unconfined Compression
2H	1	32'9"	7,668 psi
2H	2	33'8"	15,163 psi
2H	3	35'8"	18,170 psi
2H	4	36'10"	18,203 psi *
2H	5	38'5"	18,201 psi *
2H	6	39'10"	18,219 psi *
2H	7	41'2"	18,267 psi *

\* Cores #4, #5, #6, #7 Exceeded limits of Versa Tester

CORE LOG

ILLINOIS DEPARTMENT OF TRANSPORTATION  
District Nine Materials

Bridge Foundation  
Boring Log

IL Rte 127 Slope Failure South of Alto Pass

Sheet 1 of 1

Route: FAS 1909 IL 127 Structure Number: \_\_\_\_\_

Date: 5/16/2017

Section 22 SLP-1

Bored By: R Moberly

County: Union

Location: 0.33 miles South of SN 091-0047

Checked By: R Moberly

Boring No 3H

Station 368+85

Offset 85' Rt CL



Ground Surface 593.0 Ft

D E P T H	B L O W S	Qu tsf	W%	Surf Wat Elev: Ground Water Elevation when Drilling At Completion At: 24 Hrs: 587.0	D E P T H	B L O W S	Qu tsf	W%
				589.5				
	2					3		
	2	1.1B	22			5	3.0P	35
	3					8		
				584.5				
	2					5		
	3	0.6B	26			16	3.5P	14
	5.0	3				30.0	26	
				582.0				
	1					17		
	1	0.6B	25			32	4.4S	13
	2					47		
				584.5				
	2					27		
	3	1.2B	24			55		
	10.0	4				35.0	100/5"	
				582.0				
	1							
	2	0.9B	24					
	3							
				579.5				
	3							
	4	2.3B	25					
	15.0	5				40.0		
	3							
	6	3.5B	29					
	6							
	3							
	5	3.9B	22					
	20.0	7				45.0		
				572.0				
	4							
	4	2.5B	21					
	6							
				569.5				
	3							
	6	2.5B	36					
	25.0	6				50.0		

N-Std Penetr Test: 2" CD Sampler, 140# Hammer, 30" Fall (Type Fail. B-Bulge S-Shear E-Estimated P-Penetrometer)

BORING 3H

DESIGNED - WMK  
CHECKED - VHV  
DRAWN - daburdell  
CHECKED - WMK VHV

EXAMINED  
PASSED  
  
  
 ENGINEER OF STRUCTURAL SERVICES  
 ENGINEER OF BRIDGES AND STRUCTURES

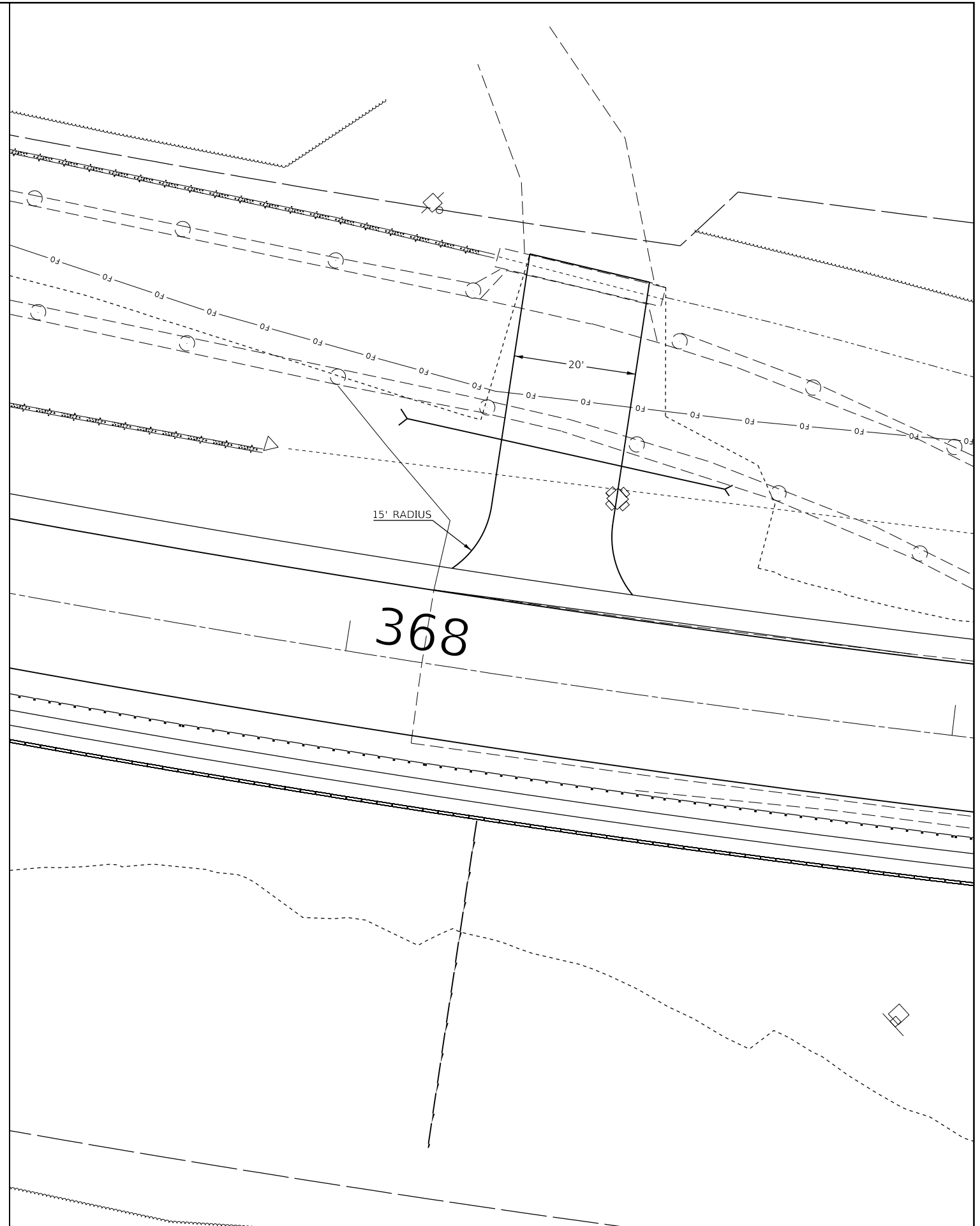
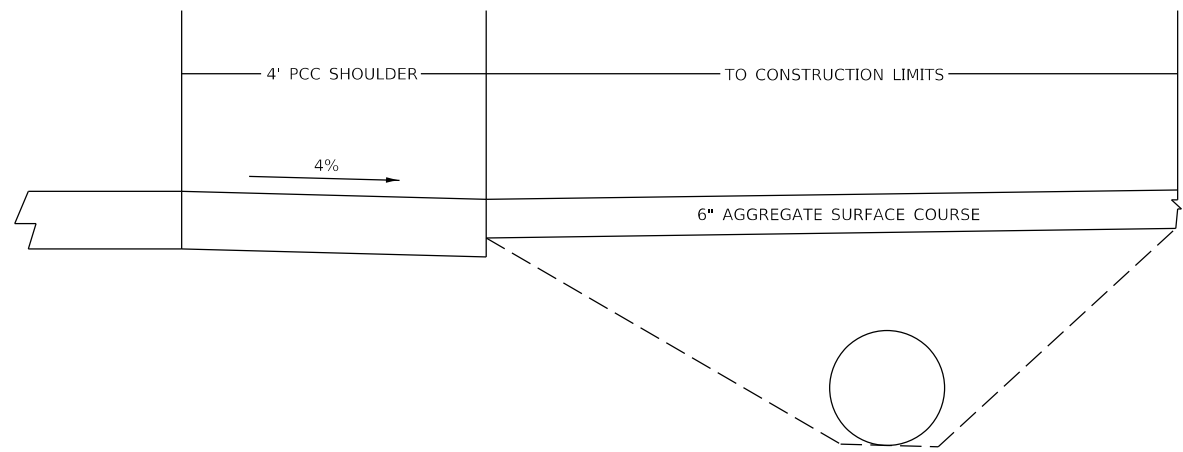
DATE - DECEMBER 6, 2019  
 REVISED -  
 REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

BORING LOGS  
SN 091-W001

SHEET NO. 21 OF 21 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1909	22 SLP-1	UNION	54	42
CONTRACT NO. 78611			ILLINOIS FED. AID PROJECT	



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PLOT DATE = 10/21/2019	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

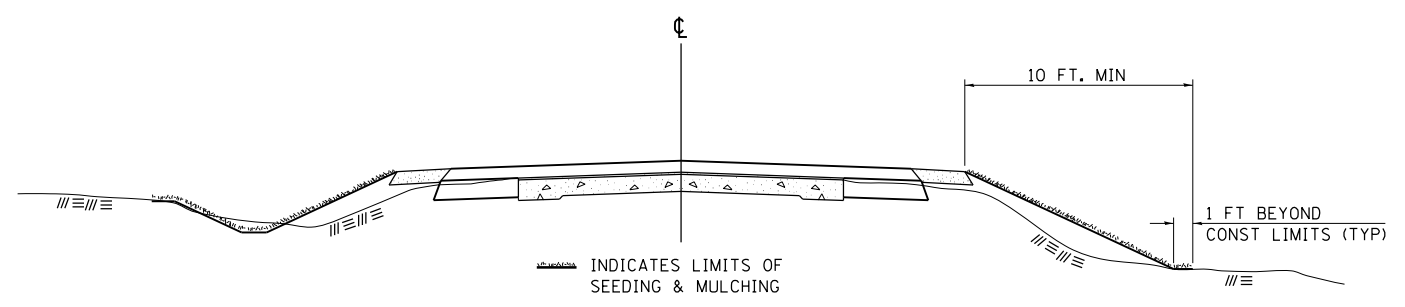
**DRIVEWAY DETAIL**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1909	225LP-1	UNION	54	43
CONTRACT NO. 78611				
ILLINOIS FED. AID PROJECT				

MODEL\_50\_SCALE\_SHEETS  
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### 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

USER NAME = knopen	DESIGNED -	REVISED -
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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

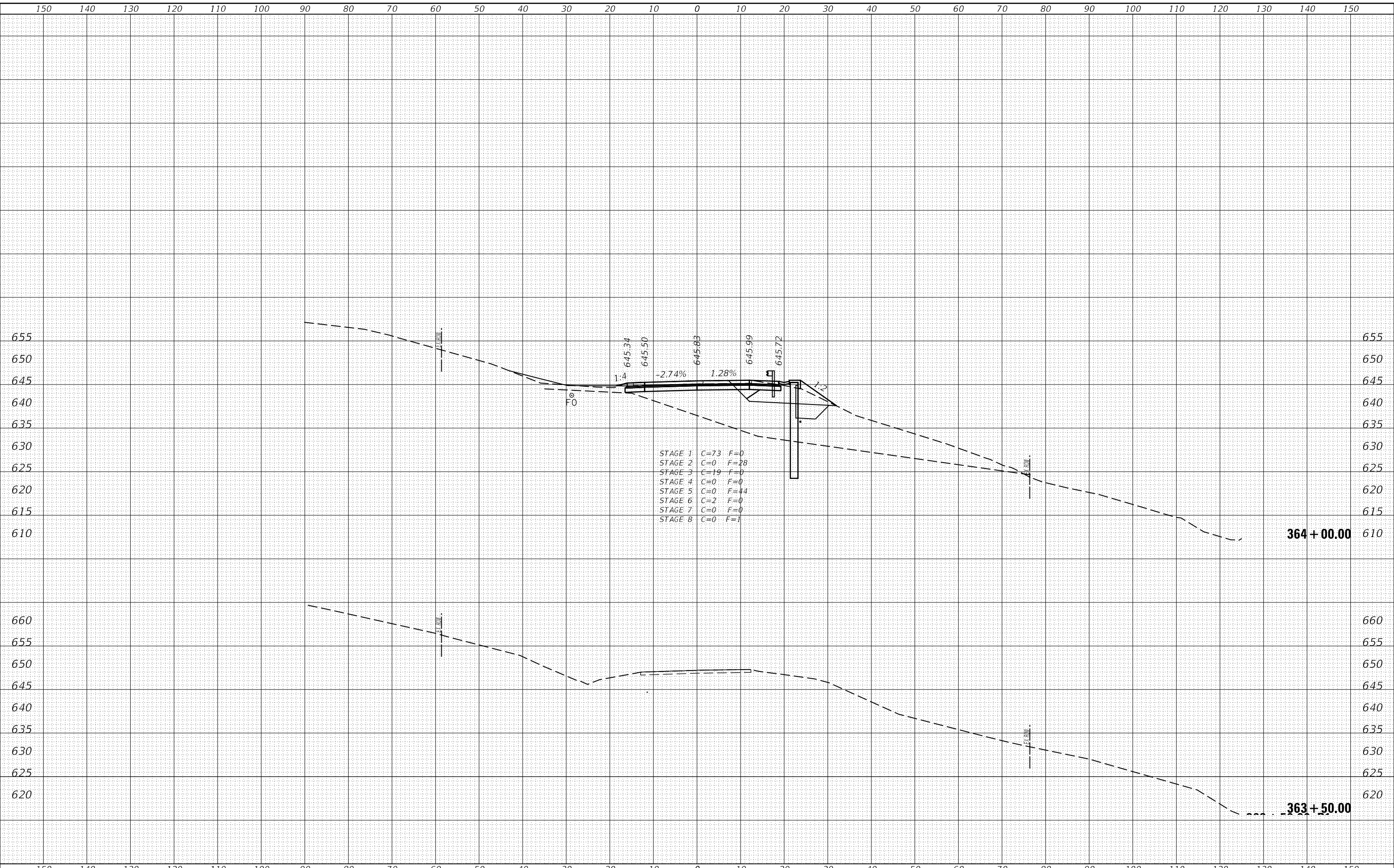
SCALE: SHEET OF SHEETS STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1909	225LP-1	UNION	54	44
CONTRACT NO. 78611				
ILLINOIS FED. AID PROJECT				

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

ORIGINAL SURVEY NO.	SURVEYED	DATE
	PLOTTED	
	TEMPLATE	
	AREAS CHECKED	

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- STAGE 1 C=73 F=0
- STAGE 2 C=0 F=28
- STAGE 3 C=19 F=0
- STAGE 4 C=0 F=0
- STAGE 5 C=0 F=44
- STAGE 6 C=2 F=0
- STAGE 7 C=0 F=0
- STAGE 8 C=0 F=1

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PLOT SCALE = 20.0000' / in.	CHECKED -	REVISED -
PLOT DATE = 10/21/2019	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

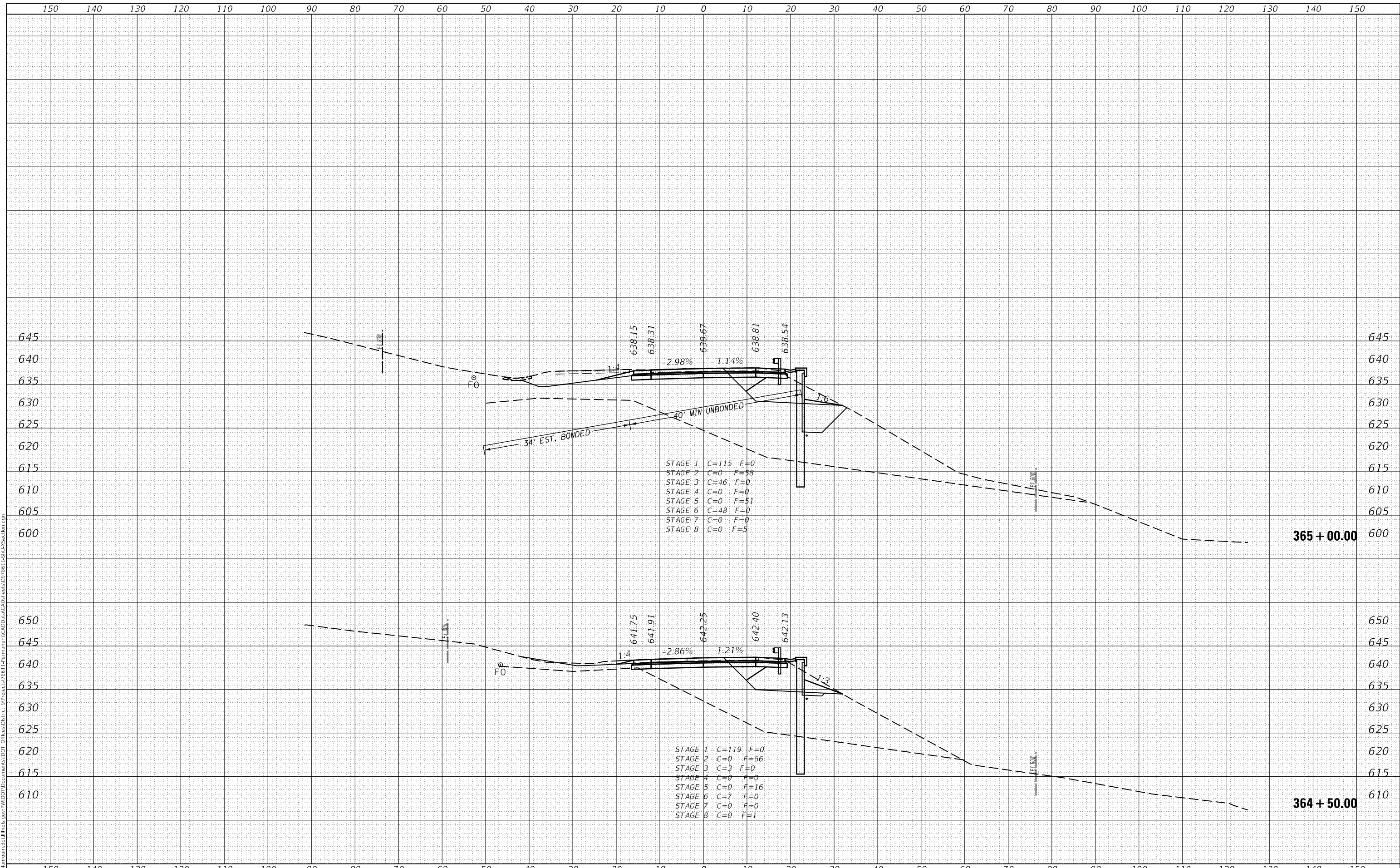
<b>CROSS SECTIONS</b>	
SCALE:	SHEET OF SHEETS
STA. 363+50.00 TO STA. 364+00.00	

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1909	225LP-1	UNION	54	45
CONTRACT NO. 78611				
ILLINOIS FED. AID PROJECT				

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

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

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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS**

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PLOT DATE = 10/21/2019	DATE -	REVISED -

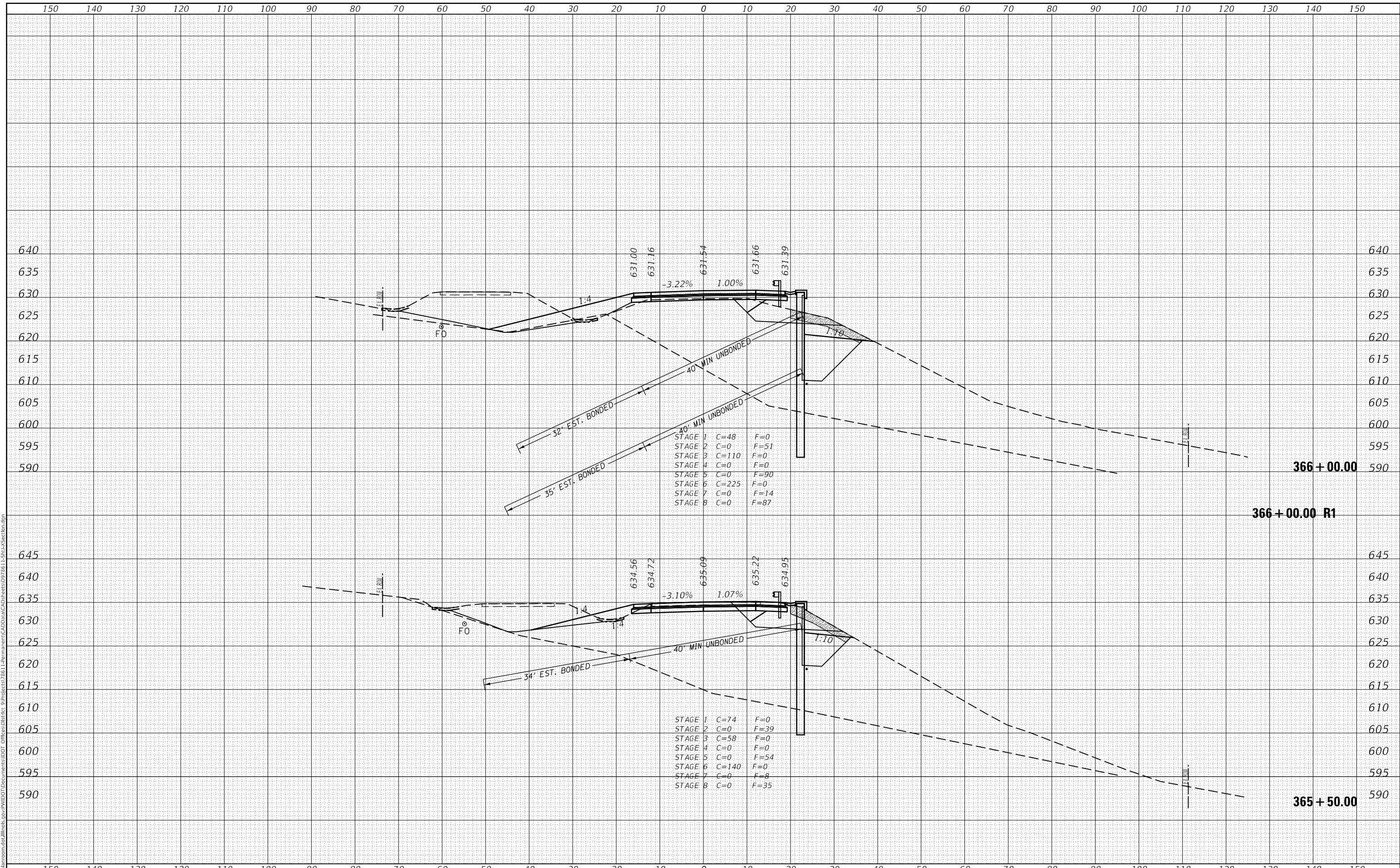
SCALE: SHEET OF SHEETS STA. 364+50.00 TO STA. 365+00.00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1909	225LP-1	UNION	54	46
				CONTRACT NO. 78611
				ILLINOIS FED. AID PROJECT

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

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

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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

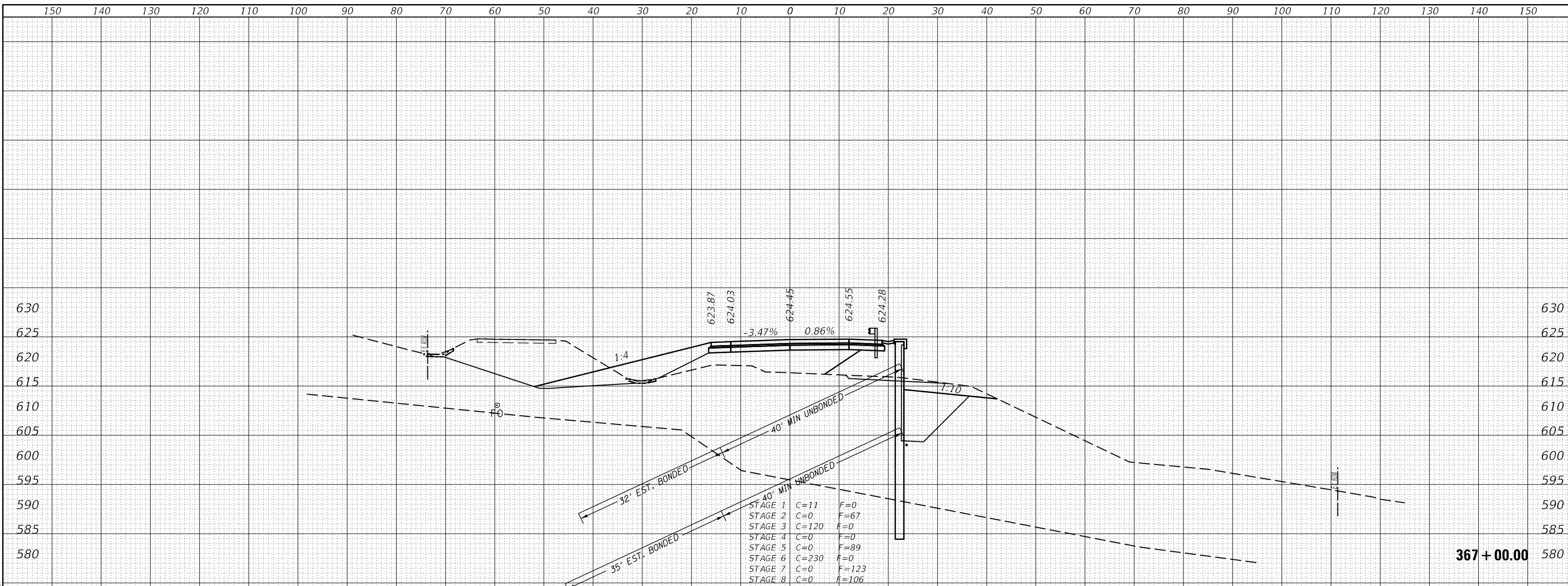
**CROSS SECTIONS**

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PLOT DATE = 10/21/2019	DATE -	REVISED -

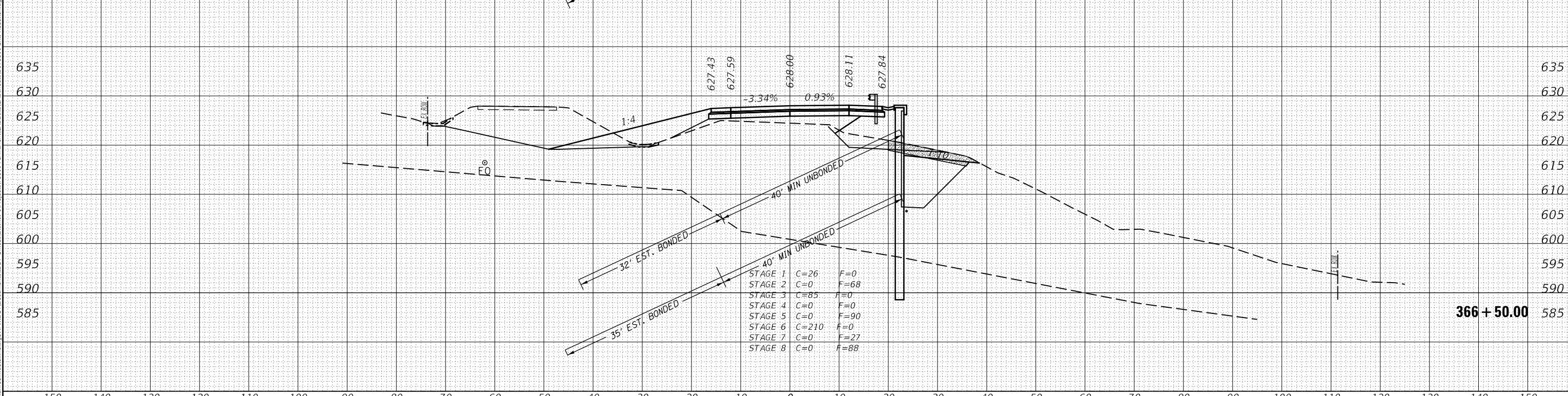
SCALE: SHEET OF SHEETS STA. 365+50.00 TO STA. 366+00.00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1909	225LP-1	UNION	54	47
				CONTRACT NO. 78611
				ILLINOIS FED. AID PROJECT

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



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



MODEL: Default  
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USER NAME = knopen	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 20.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 10/21/2019	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS**

SCALE: SHEET OF SHEETS STA. 366+50.00 TO STA. 367+00.00

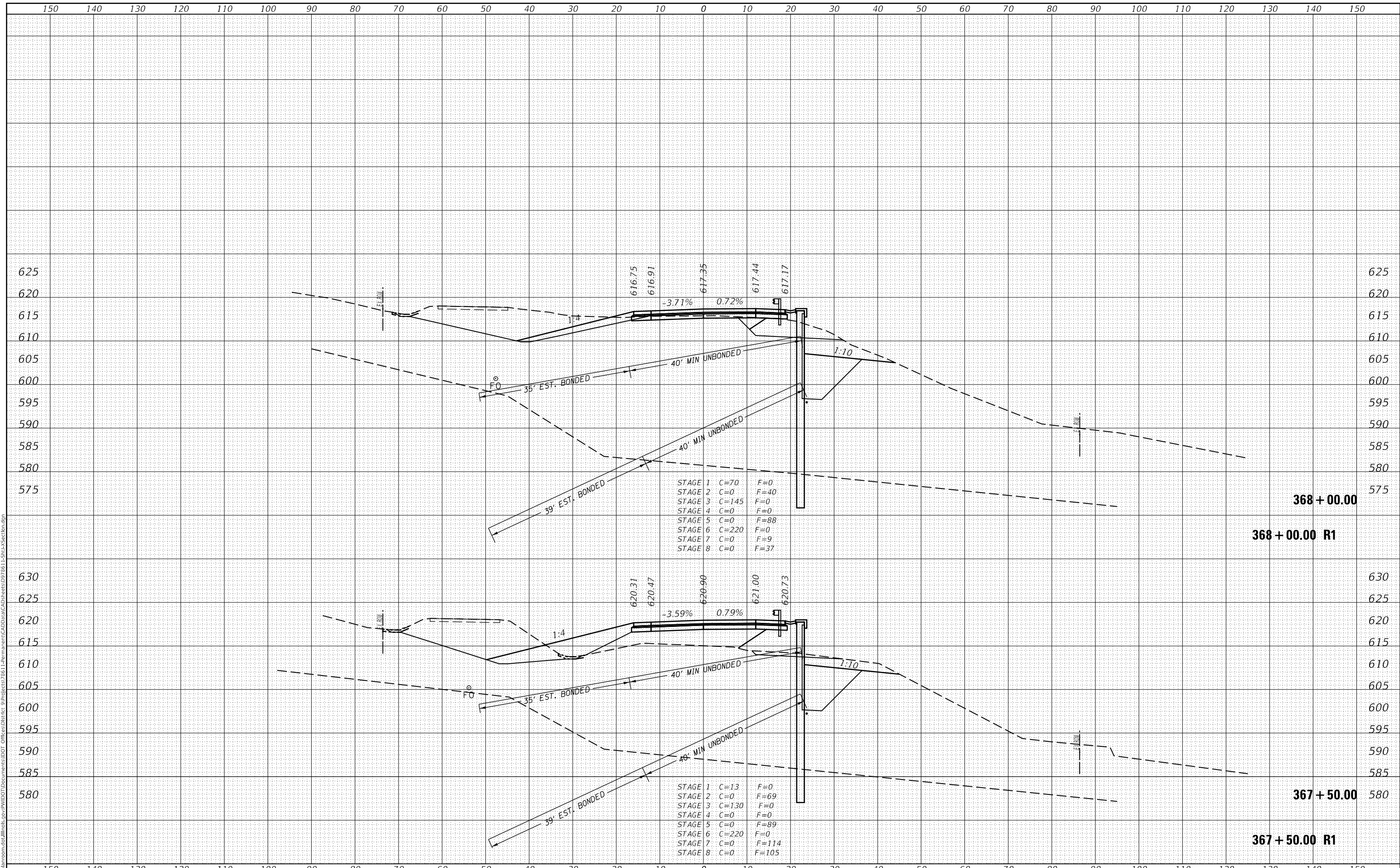
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1909	225LP-1	UNION	54	48
			CONTRACT NO. 78611	
			ILLINOIS FED. AID PROJECT	



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

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

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	DRAWN -	REVISED -
PLOT SCALE = 20.0000' / in.	CHECKED -	REVISED -
PLOT DATE = 10/21/2019	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS**

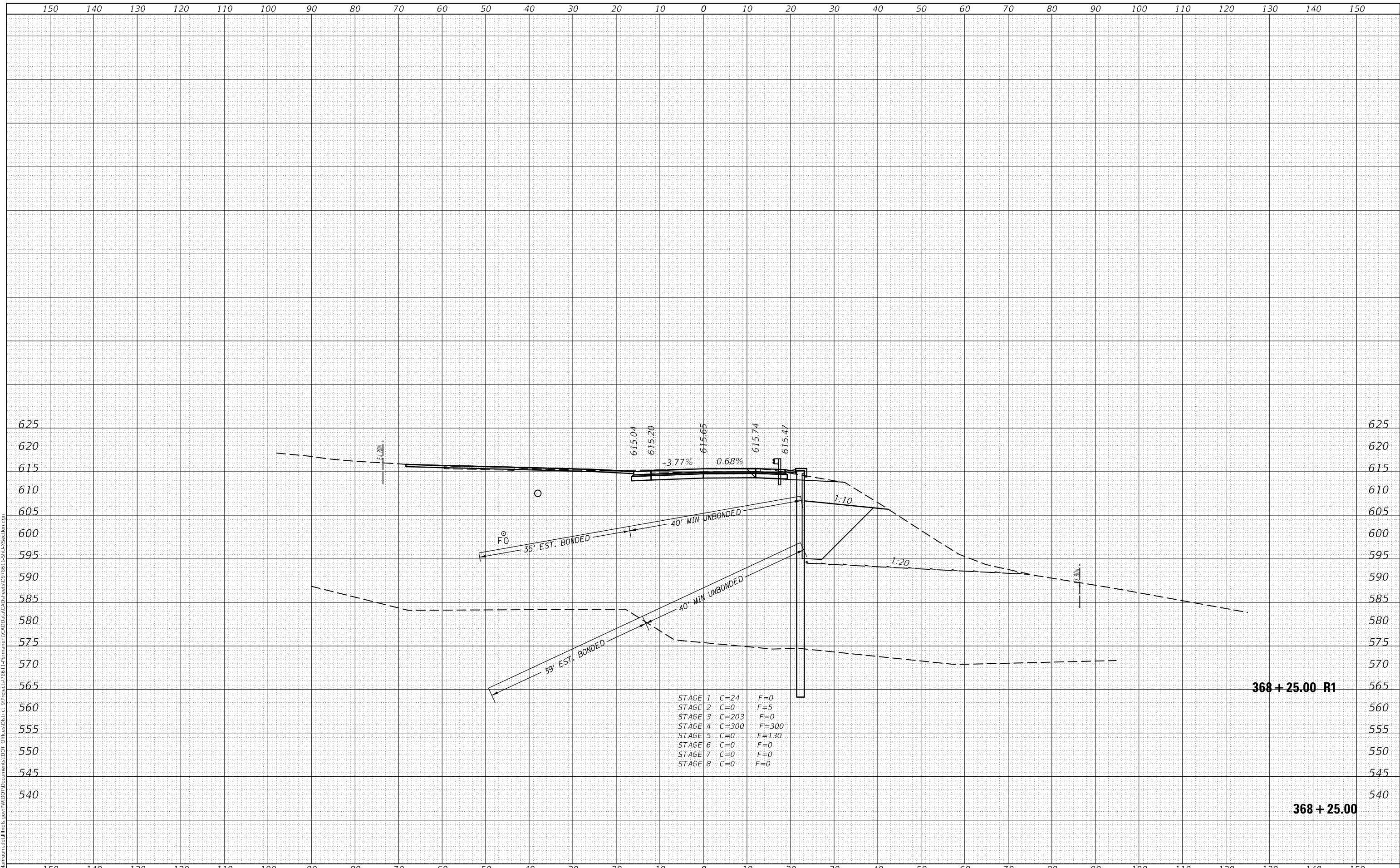
SCALE: SHEET OF SHEETS STA. 367+50.00 TO STA. 368+00.00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1909	225LP-1	UNION	54	49
				CONTRACT NO. 78611
		ILLINOIS	FED. AID PROJECT	

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

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

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STAGE 1	C=24	F=0
STAGE 2	C=0	F=5
STAGE 3	C=203	F=0
STAGE 4	C=300	F=300
STAGE 5	C=0	F=130
STAGE 6	C=0	F=0
STAGE 7	C=0	F=0
STAGE 8	C=0	F=0

368 + 25.00 R1

368 + 25.00

USER NAME = knopen	DESIGNED -	REVISED -
PLOT SCALE = 20.0000 ' / in.	DRAWN -	REVISED -
PLOT DATE = 10/21/2019	CHECKED -	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS**

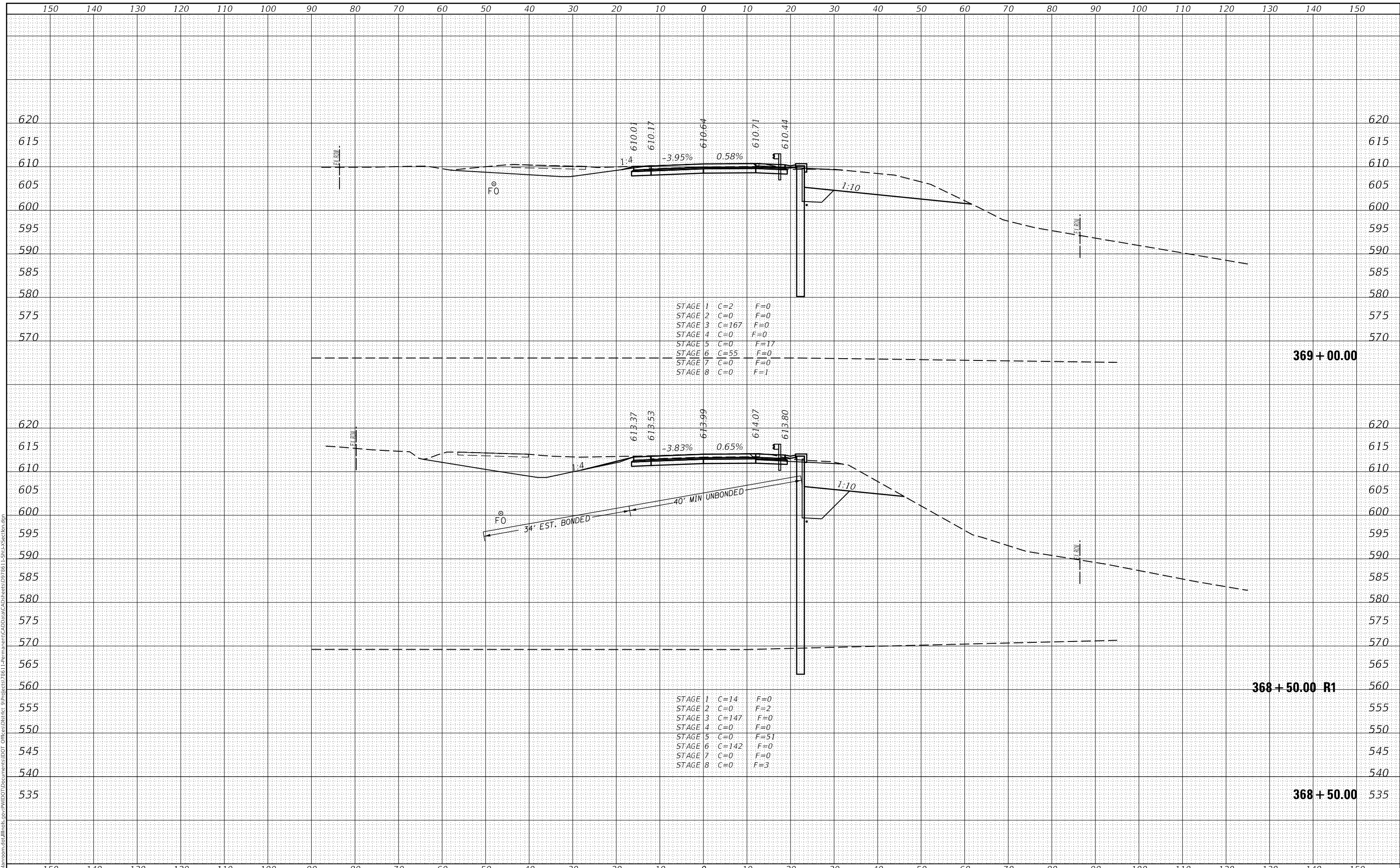
SCALE: SHEET OF SHEETS STA. 368+25.00 TO STA. 368+25.00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1909	225LP-1	UNION	54	50
				CONTRACT NO. 78611
				ILLINOIS FED. AID PROJECT

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

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

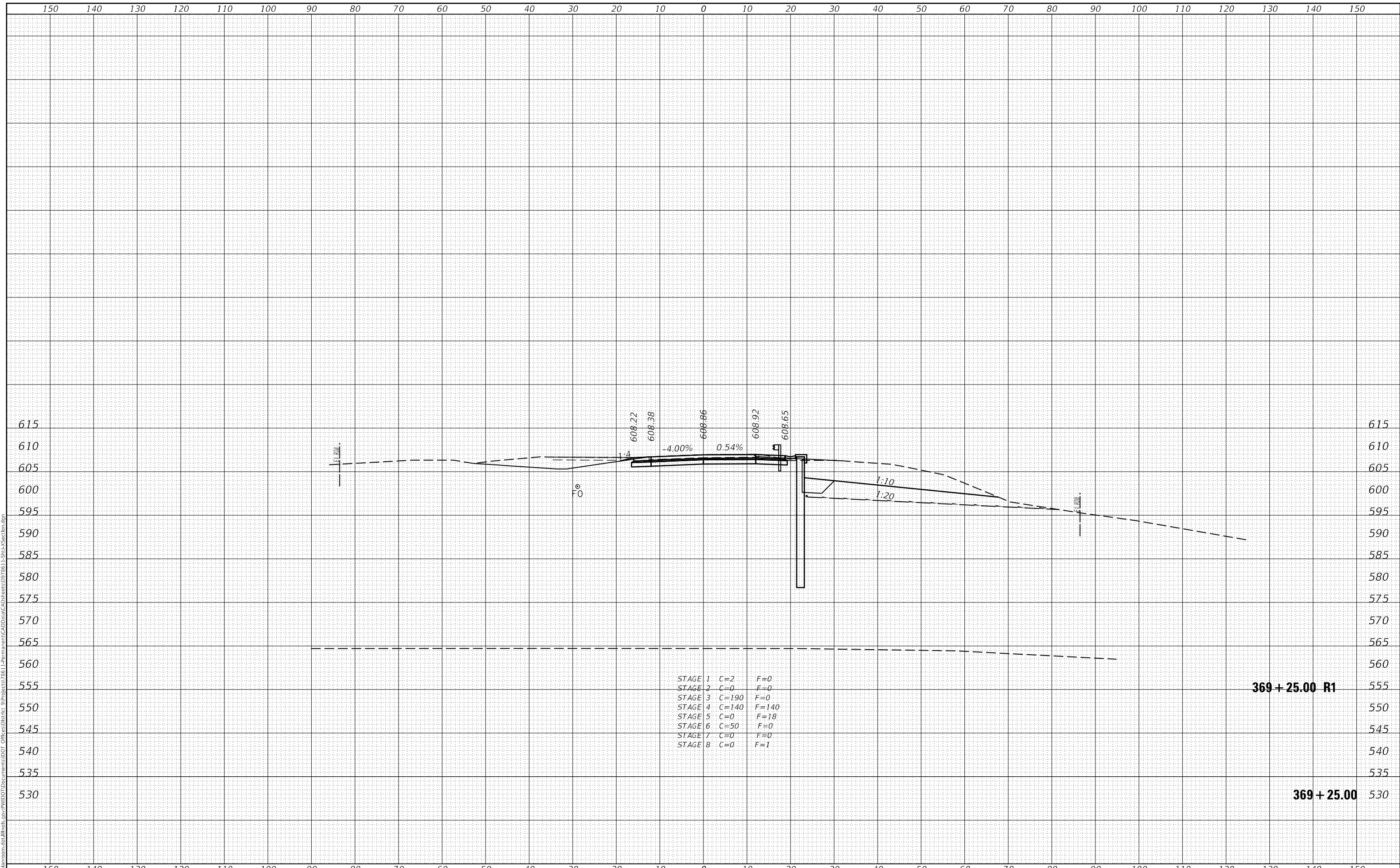
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FINAL SURVEY NO.	SURVEYED	DATE
NOTE BOOK NO.	PLOTTED	BY
	TEMPLATE	
	AREAS CHECKED	

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

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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS**

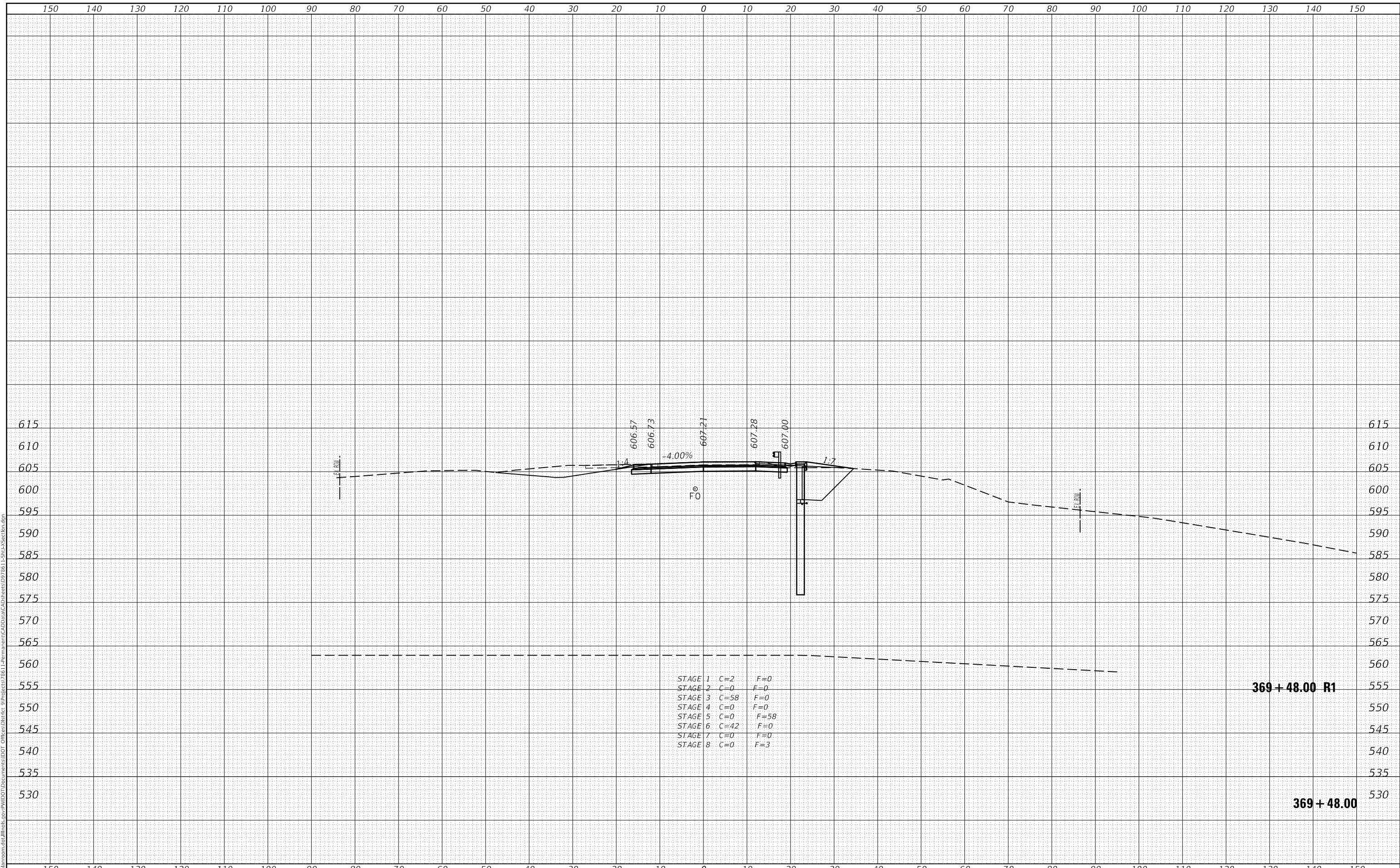
SCALE: SHEET OF SHEETS STA. 369+25.00 TO STA. 369+25.00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1909	225LP-1	UNION	54	52
			CONTRACT NO. 78611	
		ILLINOIS	FED. AID PROJECT	

FINAL SURVEY NO.	SURVEYED PLOTTED AREAS CHECKED	BY	DATE

ORIGINAL SURVEY NO.	SURVEYED PLOTTED AREAS CHECKED	BY	DATE

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STAGE 1	C=2	F=0
STAGE 2	C=0	F=0
STAGE 3	C=58	F=0
STAGE 4	C=0	F=0
STAGE 5	C=0	F=58
STAGE 6	C=42	F=0
STAGE 7	C=0	F=0
STAGE 8	C=0	F=3

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	DRAWN -	REVISED -
PLOT SCALE = 20.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 10/21/2019	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS**

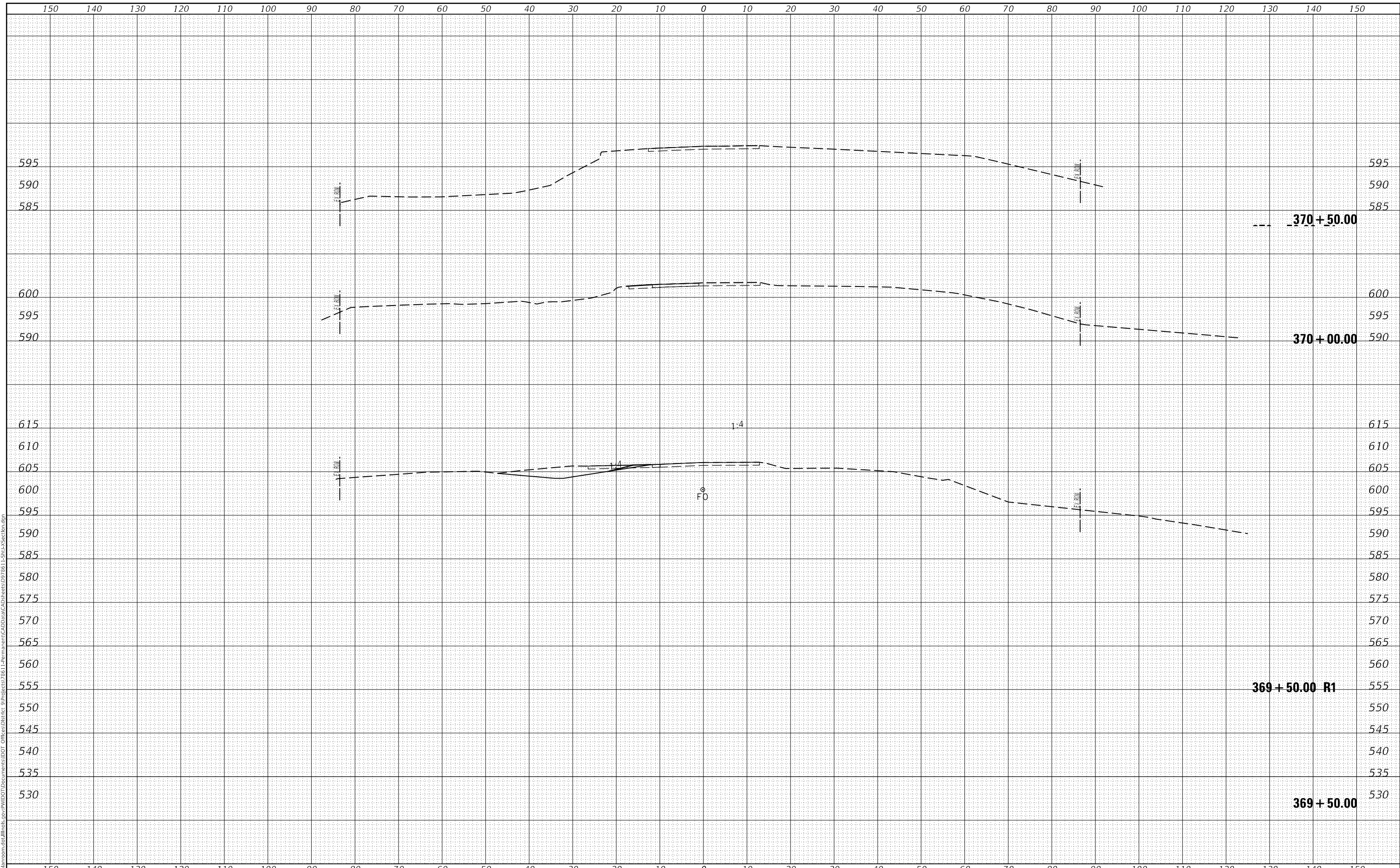
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F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1909	225LP-1	UNION	54	53
				CONTRACT NO. 78611
		ILLINOIS	FED. AID PROJECT	

BY	DATE
FINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
	TEMPLATE
	AREAS CHECKED

BY	DATE
ORIGINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
	TEMPLATE
	AREAS CHECKED

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PLOT DATE = 10/21/2019	CHECKED -	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>CROSS SECTIONS</b>			
SCALE:	SHEET	OF	SHEETS
			STA. 369+50.00 TO STA. 370+50.00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1909	225LP-1	UNION	54	54
CONTRACT NO. 78611				
ILLINOIS		FED. AID PROJECT		