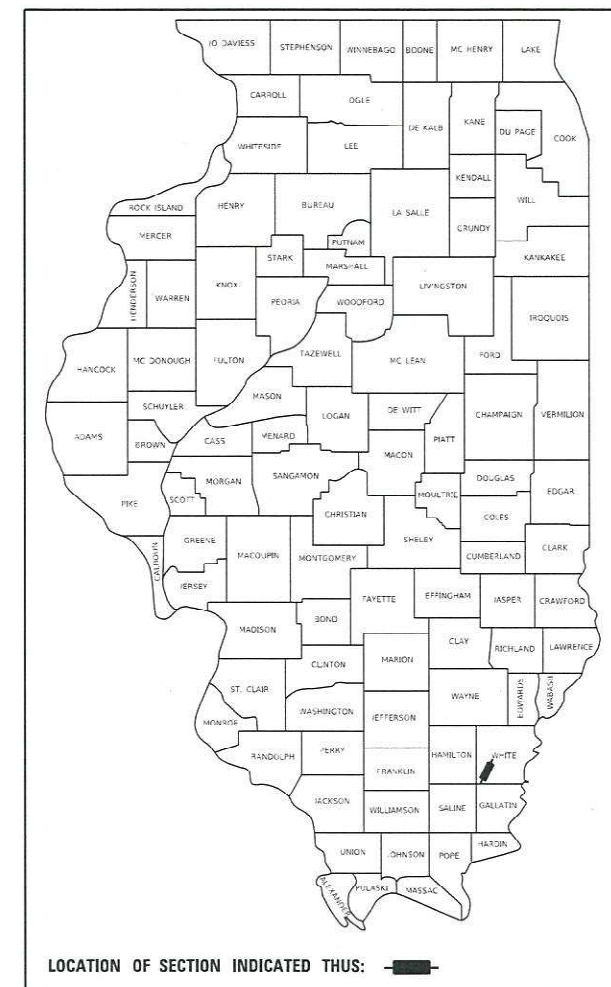


STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	2B-3	WHITE	45	1
		ILLINOIS	CONTRACT NO. 78328	

D-99-052-12



**PROPOSED
HIGHWAY PLANS**

F.A.P. ROUTE 332 (IL RTE 1)
SECTION 2B-3
PROJECT NHPP-RWEI(095)
ILLINOIS ROUTE 1 OVER LICK CREEK
WHITE COUNTY

C-99-059-12

FOR INDEX OF SHEETS, SEE SHEET NO. 3

FOR SUMMARY OF QUANTITIES, SEE SHEET NOS. 4 - 8

FOR STRUCTURAL PAVEMENT DESIGN
INFORMATION, SEE SHEET NO. N/A

DESIGN DESIGNATION: N/A
ILLINOIS COORDINATE SYSTEM, EAST ZONE
POSTED SPEED: 55 MPH

TRAFFIC DATA

ADT = 3500 (2017) (IL ROUTE 1)

6.1% SU = 215 (2017)

9.3% MU = 325 (2017)

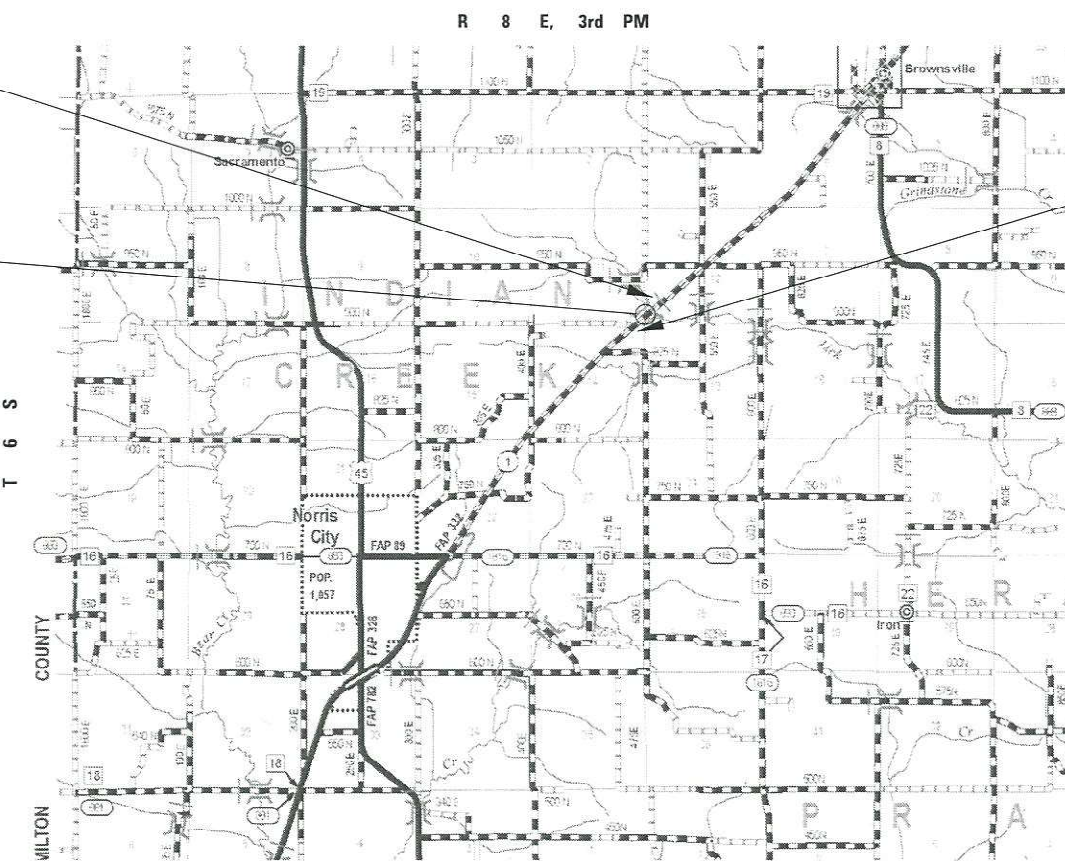
TOWNSHIP: INDIAN CREEK

FUNCTIONAL CLASSIFICATION: OTHER PRINCIPAL ARTERIAL

PROJECT BEGINS
STA 854 + 38.00

PROPOSED S.N. 097-2018
IL RTE 1 OVER LICK CREEK
C STRUCTURE STA 854 + 72.00
TRIPLE 9' x 9' R.C. BOX CULVERT
0° SKEW, 39'-0" OUT to OUT HEADWALLS
EXISTING S.N. 097-0012

PROJECT ENDS
STA 855 + 06.00



GROSS LENGTH = 402.00 FT = 0.076 MILES
NET LENGTH = 62.00 FT = 0.012 MILES

DESIGN DESIGNATION : N/A

ILLINOIS COORDINATE SYSTEM : EAST ZONE

POSTED SPEED : 55 MPH

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

PROJECT ENGINEER: GRANT DETERDING



CONTRACT NO. 78328

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUBMITTED 10-07-2020
[Signature]
REGION FIVE ENGINEER

December 4, 2020
[Signature]
ENGINEER OF DESIGN AND ENVIRONMENT

December 4, 2020
[Signature]
DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION 13

**PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS**

PREPARED BY: Charles Stein
DISTRICT STUDIES AND PLANS ENGINEER

EXAMINED BY: Nancy New
DISTRICT LAND ACQUISITION ENGINEER

EXAMINED BY: Con Nelson
DISTRICT PROGRAM DEVELOPMENT ENGINEER

EXAMINED BY: Val Kelly
DISTRICT OPERATIONS ENGINEER

EXAMINED BY: VP De
DISTRICT PROJECT IMPLEMENTATION ENGINEER

EXAMINED BY: Douglas H. Huh
DISTRICT CONSTRUCTION ENGINEER

EXAMINED BY: [Signature]
DISTRICT MATERIALS ENGINEER



USER NAME *	DESIGNED - JEB	REVISED -
	CHECKED - RHD	REVISED -
PLOT SCALE *	DRAWN - JEB	REVISED -
PLOT DATE *	CHECKED - 09/29/2020	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SIGNATURE SHEET

SCALE: SHEET NO. OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	2B-3	WHITE	45	2
CONTRACT NO. 78328				
ILLINOIS FED. AID PROJECT				

GENERAL NOTES

- 1) THE CENTERLINE PAVEMENT MARKING SHALL BE REMOVED FROM THE STOP BAR TO THE SAND ATTENUATORS OR DRUMS. EDGE LINE PAVEMENT MARKING SHALL BE REMOVED IF A 10 FOOT LANE WIDTH CANNOT BE MAINTAINED. TEMPORARY EDGE LINES SHALL BE INSTALLED WHEN THE EDGE LINES ARE REMOVED.
- 2) AT ALL LOCATIONS WHERE THE PROPOSED PORTLAND CEMENT CONCRETE SHOULDER JOINS AN EXISTING HOT MIX ASPHALT SHOULDER, A FULL DEPTH SAWED JOINT SHALL BE CONSTRUCTED. THE COST OF THIS JOINT WILL BE INCLUDED IN THE COST OF THE TYPE OF SHOULDER BEING CONSTRUCTED.
- 3) TO RETAIN THE TEMPORARY CONCRETE BARRIER FOR STAGE II TRAFFIC, THE CONTRACTOR SHALL HAVE THE OPTION OF USING EITHER 2 (#5) BAR SPLICERS OR 2 CAST-IN-PLACE INSERTS AT 6" CENTERS AT THE MID-DEPTH OF THE PCC PAVEMENT. THE BAR SPLICERS OR INSERTS SHALL HAVE A MINIMUM PROOF LOAD OF 5,000 POUNDS. ALONG WITH THE ANCHORING DEVICES THE CONTRACTOR SHALL PROVIDE ONE STEEL RETAINING PLATE, AND 2 1/2" DIAMETER BOLT AND WASHERS EVERY 6 FEET AS SHOWN ON DETAIL IION STANDARD R-27 FROM STA 85X+XX TO STA 85X+XX FOR STAGE II TRAFFIC. THIS WORK SHALL BE INCLUDED IN THE COST OF TEMPORARY CONCRETE BARRIER, NO ADDITIONAL COMPENSATION SHALL BE PROVIDED.

INDEX OF SHEETS

1	COVER SHEET
2	SIGNATURE SHEET
3	INDEX OF SHEETS, GENERAL NOTES & HIGHWAY STANDARDS
4-8	SUMMARY OF QUANTITIES
9	EXISTING TYPICAL ROADWAY SECTIONS
10	PROPOSED TYPICAL ROADWAY SECTIONS
11-12	SCHEDULE OF QUANTITIES
13	CROSS TIES AND BENCHMARK DETAILS
14	PLAN & PROFILE
15	WIDTH RESTRICTION SIGNING
16-17	MAINTENANCE OF TRAFFIC - STAGING PLANS
18	EROSION CONTROL PLAN
19	D-9 STANDARD 9-12: SEEDING AND MULCHING
20	D-9 STANDARD 9-25: 24' PCC PAVEMENT OVER BOX CULVERT
21	D-9 STANDARD 9-108: TEMPORARY DITCH CHECKS
22-35	STRUCTURE PLANS
36-45	CROSS SECTIONS

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

ALL AGGREGATE MATERIAL	2.05 TONS/CU. YD.
RIPRAP	1.50 TONS/CU YD

COMMITMENTS

- 1) NONE AS OF 10/16/2020

LIST OF ILLINOIS DOT HIGHWAY STANDARDS

000001-08	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
001001-02	AREAS OF REINFORCEMENT BARS
001006	DECIMAL OF AN INCH AND A FOOT
280001-07	TEMPORARY EROSION CONTROL SYSTEMS
420001-09	PAVEMENT JOINTS
483001-05	PCC SHOLDER
515001-04	NAME PLATES FOR BRIDGES
630001-12	STEEL PLATE BEAM GUARDRAIL
630201-07	PCC/HMA STABILIZATION AT STEEL PLATE BEAM GUARDRAIL
630301-09	SHOULDER WIDENING FOR TYPE 1 (SPECIAL) GUARDRAIL TERMINAL
631031-17	TRAFFIC BARRIER TERMINAL, TYPE 6
701001-02	OFF-ROAD OPERATIONS, 2L, 2W, MORE THAN 15' (4.5m) AWAY
701006-05	OFF-ROAD OPERATIONS, 2L, 2W, 15' (4.5m) TO 24' (600mm) FROM PAVEMENT EDGE
701011-04	OFF-ROAD MOVING OPERATIONS, 2L, 2W, DAY ONLY
701201-05	LANE CLOSURE, 2L, 2W, DAY ONLY, FOR SPEEDS > 45 MPH
701301-04	LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
701311-03	LANE CLOSURE, 2L, 2W, MOVING OPERATIONS - DAY ONLY
701321-18	LANE CLOSURE, 2L, 2W, BRIDGE REPAIR WITH BARRIER
701326-04	LANE CLOSURE, 2L, 2W, PAVEMENT WIDENING, FOR SPEEDS > 45 MPH
701901-08	TRAFFIC CONTROL DEVICES
704001-08	TEMPORARY CONCRETE BARRIER
725001-01	OBJECT AND TERMINAL MARKERS
780001-05	TYPICAL PAVEMENT MARKINGS
781001-04	TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS
782006-01	GUARDRAIL AND BARRIER WALL REFLECTOR MOUNTING DETAILS

REV. - MS

 Veenstra & Kimm, Inc. Springfield, IL. Phone: (217)544-8033	USER NAME =	DESIGNED - JEB	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	INDEX OF SHEETS, HIGHWAY STANDARDS, GENERAL NOTES & COMMITMENTS				F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	CHECKED - RHD	REVISIED -			332	2B-3	WHITE	45	3				
	PLOT SCALE =	DRAWN - JEB	REVISIED -						CONTRACT NO. 78328				
PLOT DATE =	CHECKED - 09/29/2020	REVISIED -		SCALE:	SHEET NO.	OF SHEETS	STA.	TO STA.	ILLINOIS FED. AID PROJECT				

CODE No.	ITEM	UNIT	COUNTY:	WHITE
			ROUTE:	FAP 332 (IL 1)
			FUNDING:	80% FED / 20% STATE
			LOCATION:	RURAL
			TOTAL	S.N. 097-2018
			QUANTITY	CTC - 0010
20100500	TREE REMOVAL, ACRES	ACRE	0.25	0.25
20200100	EARTH EXCAVATION	CU YD	709	709
20700220	POROUS GRANULAR EMBANKMENT	CU YD	409	409
25000210	SEEDING, CLASS 2A	ACRE	0.50	0.50
25000350	SEEDING, CLASS 7	ACRE	0.50	0.50
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	25	25
25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	25	25
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	25	25
25000700	AGRICULTURAL GROUND LIMESTONE	TON	1.0	1.0
25100115	MULCH, METHOD 2	ACRE	0.50	0.50
25100635	HEAVY DUTY EROSION CONTROL BLANKET	SQ YD	840	840
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	28	28
28000305	TEMPORARY DITCH CHECKS	FOOT	40	40
28000400	PERIMETER EROSION BARRIER	FOOT	740	740

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USER NAME = jbeque
 PLOT SCALE = 40.0000 ' / in.
 PLOT DATE = 9/29/2020

DESIGNED - J.E.B.
 DRAWN - J.E.B.
 CHECKED - R.H.D.
 DATE - 09/29/2020

REVISED -
 REVISED -
 REVISED -
 REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**SUMMARY OF QUANTITIES
 ILLINOIS ROUTE 1 OVER LICK CREEK**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	2B-3	WHITE	45	4
			CONTRACT NO. 78328	
		ILLINOIS	FED. AID PROJECT	

COUNTY:	WHITE
ROUTE:	FAP 332 (IL 1)
FUNDING:	80% FED / 20% STATE
LOCATION:	RURAL
TOTAL QUANTITY	S.N. 097-2018 CTC - 0010

CODE No.	ITEM	UNIT	TOTAL QUANTITY	
28100207	STONE RIPRAP, CLASS A4	TON	68	68
28100209	STONE RIPRAP, CLASS A5	TON	390	390
28200200	FILTER FABRIC	SQ YD	806	806
31101200	SUBBASE GRANULAR MATERIAL, TYPE B 4"	SQ YD	568	568
35400300	PORTLAND CEMENT CONCRETE BASE COURSE WIDENING 8"	SQ YD	60	60
42000501	PORTLAND CEMENT CONCRETE PAVEMENT 10" (JOINTED)	SQ YD	182	182
44000100	PAVEMENT REMOVAL	SQ YD	133	133
48300300	PORTLAND CEMENT CONCRETE SHOULDERS 8"	SQ YD	474	474
50100100	REMOVAL OF EXISTING STRUCTURES	EACH	1	1
50200450	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL FOR STRUCTURES	CU YD	195	195
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	31630	31630
50800515	BAR SPLICERS	EACH	176	176
50900200	STEEL RAILING, TYPE 2399	FOOT	60	60
51500100	NAME PLATES	EACH	1	1

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	DATE - 09/29/2020	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**SUMMARY OF QUANTITIES
ILLINOIS ROUTE 1 OVER LICK CREEK**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	2B-3	WHITE	45	5
CONTRACT NO. 78328				
ILLINOIS FED. AID PROJECT				

CODE No.	ITEM	UNIT	COUNTY:	WHITE
			ROUTE:	FAP 332 (IL 1)
			FUNDING:	80% FED / 20% STATE
			LOCATION:	RURAL
			TOTAL	S.N. 097-2018
			QUANTITY	CTC - 0010
52200010	TEMPORARY SHEET PILING	SQ FT	751	751
54003000	CONCRETE BOX CULVERTS	CU YD	193.1	193.1
59100100	GEOCOMPOSITE WALL DRAIN	SQ YD	136	136
* 63000001	STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS	FOOT	125	125
* 63100087	TRAFFIC BARRIER TERMINAL, TYPE 6A	EACH	4	4
* 63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	4	4
63200310	GUARDRAIL REMOVAL	FOOT	916	916
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	15	15
67100100	MOBILIZATION	L SUM	1	1
70100100	TRAFFIC CONTROL AND PROTECTION, STANDARD 701316	EACH	1	1
70100405	TRAFFIC CONTROL AND PROTECTION, STANDARD 701321	EACH	1	1
70100450	TRAFFIC CONTROL AND PROTECTION, STANDARD 701201	L SUM	1	1
70103815	TRAFFIC CONTROL SURVEILLANCE	CAL DA	10	10
70106500	TEMPORARY BRIDGE TRAFFIC SIGNALS	EACH	1	1

* SPECIALTY ITEM

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	DRAWN - J.E.B.	REVISED -
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PLOT DATE = 9/29/2020	DATE - 09/29/2020	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**SUMMARY OF QUANTITIES
ILLINOIS ROUTE 1 OVER LICK CREEK**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	2B-3	WHITE	45	6
CONTRACT NO. 78328				
ILLINOIS FED. AID PROJECT				

COUNTY:	WHITE
ROUTE:	FAP 332 (IL 1)
FUNDING:	80% FED / 20% STATE
LOCATION:	RURAL
TOTAL QUANTITY	S.N. 097-2018 CTC - 0010

CODE No.	ITEM	UNIT	TOTAL QUANTITY	
70106700	TEMPORARY RUMBLE STRIPS	EACH	6	6
70107025	CHANGEABLE MESSAGE SIGN	CAL DA	28	28
70300220	TEMPORARY PAVEMENT MARKING - LINE 4"	FOOT	1918	1918
70300280	TEMPORARY PAVEMENT MARKING - LINE 24"	FOOT	24	24
70400100	TEMPORARY CONCRETE BARRIER	FOOT	350	350
70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	325	325
70600250	IMPACT ATTENUATORS, TEMPORARY (NON- REDIRECTIVE), TEST LEVEL 3	EACH	2	2
70600350	IMPACT ATTENUATORS, RELOCATE (NON- REDIRECTIVE), TEST LEVEL 3	EACH	2	2
* 72501000	TERMINAL MARKER - DIRECT APPLIED	EACH	4	4
* 78001110	PAINT PAVEMENT MARKING - LINE 4"	FOOT	844	844
X0323265	REMOVE EXISTING RIPRAP	SQ YD	119	119
X0327979	PAVEMENT MARKING REMOVAL - GRINDING	SQ FT	283	283
X0900064	MEMBRANE WATERPROOFING SYSTEM FOR BURIED STRUCTURES	SQ YD	136	136
X7030005	TEMPORARY PAVEMENT MARKING REMOVAL	SQ FT	689	689

* SPECIALTY ITEM

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PLOT DATE = 9/29/2020	CHECKED - R.H.D.	REVISED -
	DATE - 09/29/2020	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES
ILLINOIS ROUTE 1 OVER LICK CREEK

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	2B-3	WHITE	45	7
			CONTRACT NO. 78328	
		ILLINOIS	FED. AID PROJECT	

CODE No.	ITEM	UNIT	COUNTY:	WHITE
			ROUTE:	FAP 332 (IL 1)
			FUNDING:	80% FED / 20% STATE
			LOCATION:	RURAL
			TOTAL QUANTITY	S.N. 097-2018
				CTC - 0010
X7040125	PINNING TEMPORARY CONCRETE BARRIER	EACH	30	30
Z0027800	GEOTECHNICAL FABRIC	SQ YD	235	235
∅ Z0076600	TRAINEES	HOUR	500	500
* Z0054400	ROCK FILL	CU YD	300	300
∅ Z0076604	TRAINEES TRAINING PROGRAM GRADUATE	HOUR	500	500

* SPECIALTY ITEM
∅ 0042

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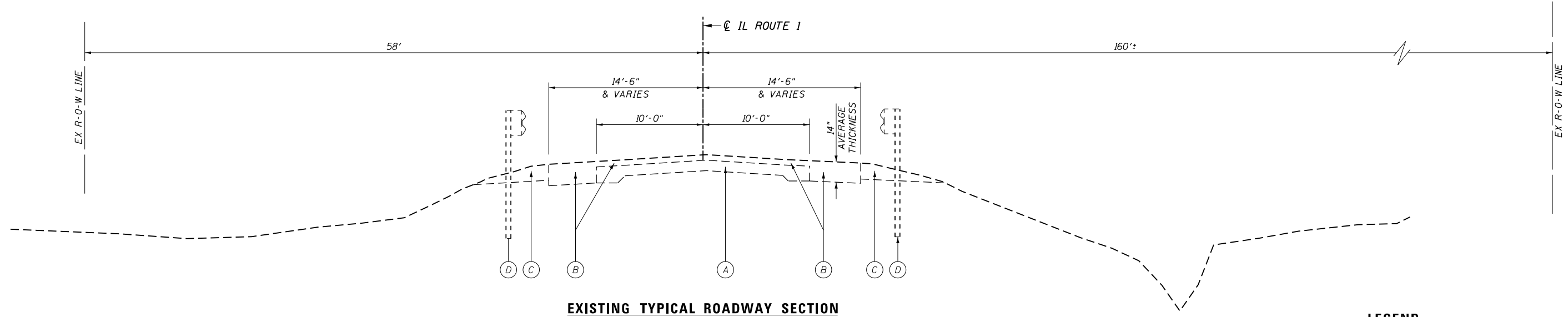


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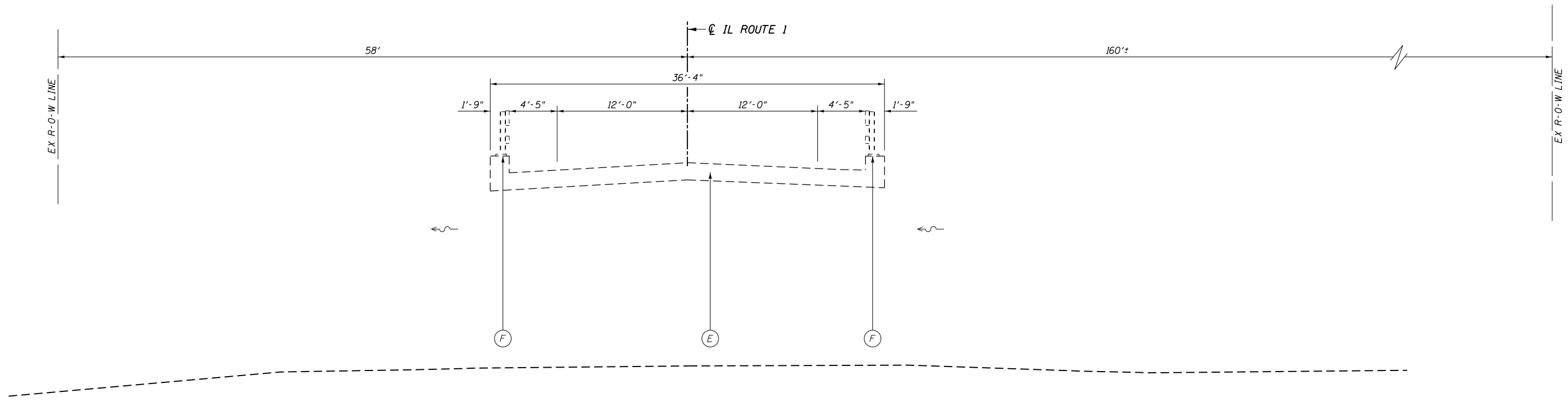
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES			
ILLINOIS ROUTE 1 OVER LICK CREEK			
SCALE:	SHEET	OF	SHEETS
	STA.	TO	STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	2B-3	WHITE	45	8
CONTRACT NO. 78328				
		ILLINOIS	FED. AID PROJECT	



- LEGEND**
- (A) EXISTING 9-6-9 PCC PAVEMENT
 - (B) EXISTING HMA OVERLAY & WIDENING
 - (C) EXISTING AGGREGATE SHOULDERS
 - (D) EXISTING STEEL PLATE BEAM GUARDRAIL
 - (E) EXISTING CONCRETE BRIDGE DECK
 - (F) EXISTING STEEL BRIDGE RAILING



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	DATE - 09/29/2020	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING TYPICAL ROADWAY SECTIONS			
ILLINOIS ROUTE 1 OVER LICK CREEK			
SCALE: 1" = 20'	SHEET	OF SHEETS	STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	2B-3	WHITE	45	9
CONTRACT NO. 78328				
		ILLINOIS	FED. AID PROJECT	

REMOVAL SCHEDULE					
LOCATION			TREE REMOVAL ACRES (ACRE)	PAVEMENT REMOVAL (SQ YD)	REMOVE EXIST RIPRAP (SQ YD)
852+70.00	TO	854+65.00	RT	0.03	
854+38.00	TO	855+06.00	CL	133	
854+51.00	TO	854+63.00	RT		20
854+58.00	TO	854+87.00	LT		75
854+80.00	TO	854+93.00	RT		24
854+85.00	TO	855+80.00	RT	0.02	
TOTAL				0.25	133
					119

EARTHWORK SCHEDULE				
1 Location	2 Earth Excavation	3 Earth Excavation Adjusted For Shrinkage (25%)	4 Embankment	5 Earthwork Balance Waste (+) or Shortage (-)
	Cubic Yard	Cubic Yard	Cubic Yard	Cubic Yard
Sta 852+35 to 854+57	470	353	26	+ 327
CULVERT OMISSION				
Sta 854+87 to 856+37	239	179	26	+ 153
TOTAL	709			

Columns 1, 2, & 4

Column 3
Column 5

Location and Quantities from Cross Sections:
Cut = Earth Excavation (Special) Fill = Embankment
Quantity of Earth Excavation (Cut) Adjusted for a Shrinkage Factor of 25%
Earthwork Required:
(-) = Quantity of Fill or Embankment needed (Furnished or Borrow Excavation)
(+) = Quantity to be Wasted

PERMANENT SEEDING SCHEDULE									
LOCATION			SEEDING CLASS 2A (ACRE)	SEEDING CLASS 7 (ACRE)	NITROGEN FERT NUTR (POUND)	PHOSPHORUS FERT NUTR (POUND)	POTASSIUM FERT NUTR (POUND)	AGR GROUND LIMESTONE (TON)	MULCH METHOD 2 (ACRE)
852+35.00	TO	854+54.25	LT	0.121	0.121	10.9	10.9	10.9	0.25
852+35.00	TO	854+54.25	RT	0.130	0.130	11.7	11.7	11.7	0.26
854+90.00	TO	856+14.00	RT	0.010	0.010	0.9	0.9	0.9	0.02
854+90.00	TO	856+40.00	LT	0.014	0.014	1.3	1.3	1.3	0.03
TOTAL				0.50	0.50	25	25	25	1.0
									0.50

EROSION CONTROL SCHEDULE						
LOCATION			HD EROS CONTR BLANKET (SQ YD)	TEMP EROS CONTR SEED (POUND)	TEMPORARY DITCH CHECKS (FOOT)	PERIMETER EROS BAR (FOOT)
852+25.00	TO	854+50.00	LT			225
852+25.00	TO	854+63.00	RT			238
852+35.00			LT		10	
852+35.00			RT		10	
852+35.00	TO	854+54.25	LT	12.5		
852+19.00	TO	854+54.25	RT	13.0		
852+35.00	TO	854+47.00	LT	327		
852+35.00	TO	854+47.00	RT	400		
854+90.00	TO	855+25.00	LT	67		
854+90.00	TO	855+25.00	RT	47	1.4	
854+90.00	TO	856+40.00	LT		1.4	
854+85.00	TO	856+10.00	RT			125
854+95.00	TO	856+47.00	LT			152
856+00.00			RT			10
856+25.00			LT			10
TOTAL				840	28	40
						740

RIPRAP SCHEDULE				
LOCATION		STONE RIPRAP CLASS A4 (TON)	STONE RIPRAP CLASS A5 (TON)	FILTER FABRIC (SQ YD)
854+20.00	TO	854+47.00	LT	17
854+20.00	TO	854+47.00	RT	17
854+47.00	TO	854+97.00	LT	158
854+47.00	TO	854+97.00	RT	232
854+97.00	TO	855+25.00	LT	17
854+97.00	TO	855+25.00	RT	17
TOTAL			68	390
				806

PCC PAVEMENT SCHEDULE					
LOCATION			SUBBASE GRAN MAT'L TY B 4" (SQ YD)	PCC PAVEMENT 10" (SQ YD)	PCC SHLDS 8" (SQ YD)
852+97.25	TO	853+42.00	RT	36.8	34.3
853+42.00	TO	853+62.00	RT	16.7	15.6
853+34.75	TO	853+79.50	LT	36.8	34.3
853+62.00	TO	854+38.00	RT	59.2	54.9
853+79.50	TO	853+99.50	LT	16.7	15.6
853+99.50	TO	854+38.00	LT	30.0	27.9
854+38.00	TO	854+57.00	RT	45.4	25.4
854+38.00	TO	854+57.00	LT	45.4	25.4
854+57.00	TO	854+87.00	RT	40.0	20.0
854+57.00	TO	854+87.00	LT	40.0	20.0
854+87.00	TO	855+06.00	RT	45.4	25.4
854+87.00	TO	855+06.00	LT	45.4	25.4
855+06.00	TO	855+44.50	RT	27.9	25.7
855+06.00	TO	855+82.00	LT	59.2	54.9
855+44.50	TO	855+64.50	RT	15.6	14.5
855+64.50	TO	856+09.25	RT	34.3	31.9
855+82.00	TO	856+02.00	LT	16.7	15.6
856+02.00	TO	856+46.75	LT	36.8	34.3
TOTAL				568	182
					474

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USER NAME = jbeque
PLOT SCALE = 40.0000 ' / in.
PLOT DATE = 9/29/2020

DESIGNED - J.E.B.
DRAWN - J.E.B.
CHECKED - R.H.D.
DATE - 09/29/2020

REVISED -
REVISED -
REVISED -
REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES
ILLINOIS ROUTE 1 OVER LICK CREEK
SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	2B-3	WHITE	45	11
CONTRACT NO. 78328				
ILLINOIS FED. AID PROJECT				

GUARDRAIL SCHEDULE							
LACATION		STEEL RAILING TYPE 2399 (FOOT)	SPBGR TY A 6 FT POSTS (FOOT)	TRAFFIC BARRIER TRM TYPE 6A (EACH)	TR BAR TRM T1 SPL TAN (EACH)	GUARDRAIL REMOVAL (FOOT)	TERMINAL MARKER - DA (EACH)
852+19.00	TO	856+64.00	RT			446	
852+69.00	TO	857+38.00	LT			470	
853+19.50	TO	853+69.50	RT		1		1
853+69.50	TO	854+19.50	RT	50.0			
854+19.50	TO	854+57.00	RT		1		
853+57.00	TO	854+07.00	LT		1		1
854+07.00	TO	854+19.50	LT	12.5			
854+19.50	TO	854+57.00	LT		1		
854+57.00	TO	854+87.00	RT	30			
854+57.00	TO	854+87.00	LT	30			
854+87.00	TO	855+24.50	RT		1		
855+24.50	TO	855+37.00	RT	12.5			
855+37.00	TO	855+87.00	RT		1		1
854+87.00	TO	855+24.50	LT		1		
855+24.50	TO	855+74.50	LT	50.0			
855+74.50	TO	856+24.50	LT		1		1
		TOTAL		60	125	4	4

PAVEMENT MARKING SCHEDULE					
LOCATION		PAINT PVT MK LINE 4 (YELLOW) (FOOT)	PAINT PVT MK LINE 4 (WHITE) (FOOT)	PAVMT MRKG REM GRIND (SQ FT)	
850+91.00	TO	858+41.00	CL	190	64
854+72.00			CL		
853+18.50	TO	856+25.50	LT	307	103
852+99.00	TO	856+45.50	RT	347	116
		SUB-TOTAL		190	283
		TOTALS		844	283

TEMPORARY CONCRETE BARRIER SCHEDULE							
LOCATION		STAGE	TEMP CONC BARRIER (FOOT)	REL TEMP CONC BARRIER (FOOT)	IMP ATTN TEMP NRD TL3 (EACH)	IMP ATTN REL NRD TL3 (EACH)	PINNING TEMP CONC BARRIER (EACH)
852+93.50	TO	853+09.50	I		1		
853+09.70	TO	856+34.30	I	325			24
856+34.50	TO	856+50.50	I		1		
852+81.00	TO	852+97.00	II			1	
852+97.20	TO	856+46.80	II	25	325		6
856+47.00	TO	856+63.00	II			1	
		TOTAL	350	325	2	2	30

TEMPORARY MOT ITEMS SCHEDULE				
LOCATION		TEMP BRIDGE TRAF SIGNALS (EACH)	TEMPORARY RUMBLE STRIPS (EACH)	PCC BASE CSE W 8 (SQ YD)
* 1.5 MILES NE	STAGE I & II	RT		
833+91.00	STAGE I & II	RT	1	
838+91.00	STAGE I & II	RT	1	
843+91.00	STAGE I & II	RT	1	
851+41.00	STAGE I & II	RT	0.25	
851+66.00	STAGE I & II	LT	0.25	
853+39.00	856+05.50	LT		60
857+66.00	STAGE I & II	RT	0.25	
857+91.00	STAGE I & II	LT	0.25	
865+41.00	STAGE I & II	LT	1	
870+41.00	STAGE I & II	LT	1	
875+41.00	STAGE I & II	LT	1	
* 2 MILES SW	STAGE I & II	LT		
	TOTAL		1	60

* SEE "WIDTH RESTRICTION SIGNING" SHEET

TEMP PAVEMENT MARKING SCHEDULE					
LOCATION		STAGE	TEMP PVT MK LINE 4 (FOOT)	TEMP PVT MK LINE 24 (FOOT)	TEMP PVT MK REM (SQ FT)
850+91.00	TO	850+91.00	RT I & II	12	24
851+63.00	TO	857+81.00	LT I	620	207
853+18.50	TO	856+25.50	RT I	307	103
858+75.00	TO	858+75.00	LT I & II	12	24
851+51.00	TO	857+93.50	LT II	644	215
852+99.00	TO	856+45.50	RT II	347	116
		TOTAL		1,918	24
					689

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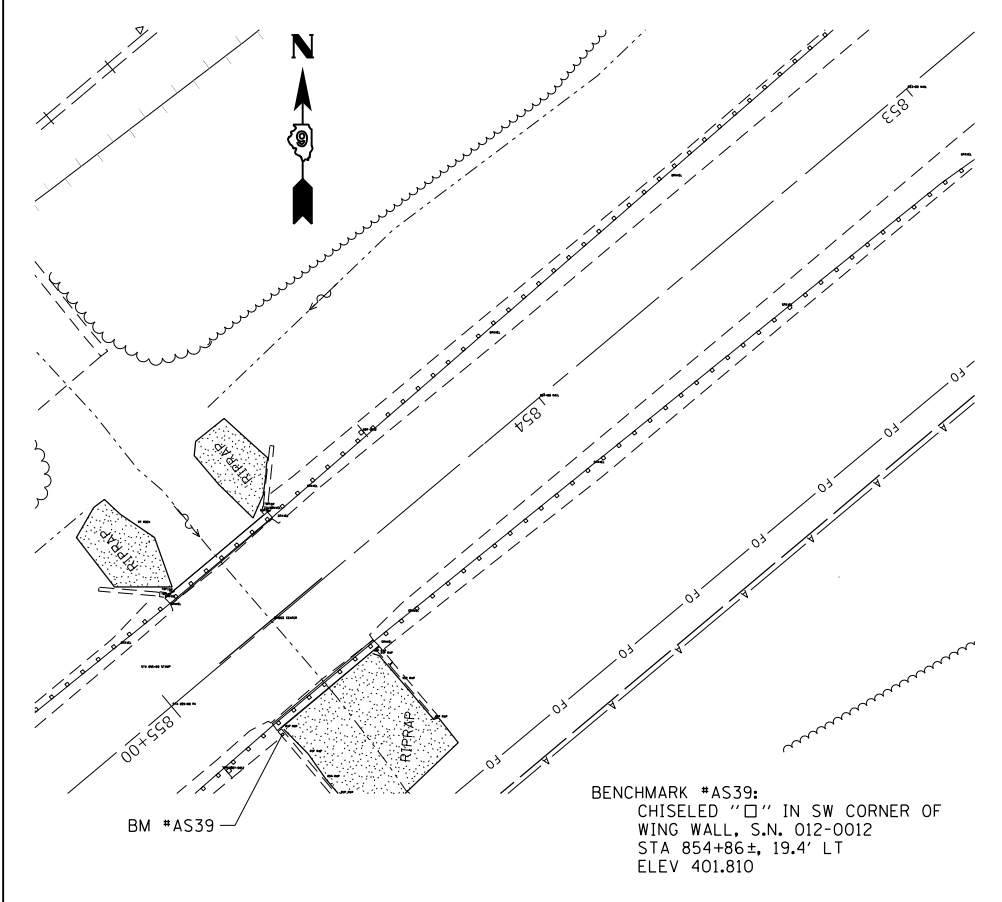
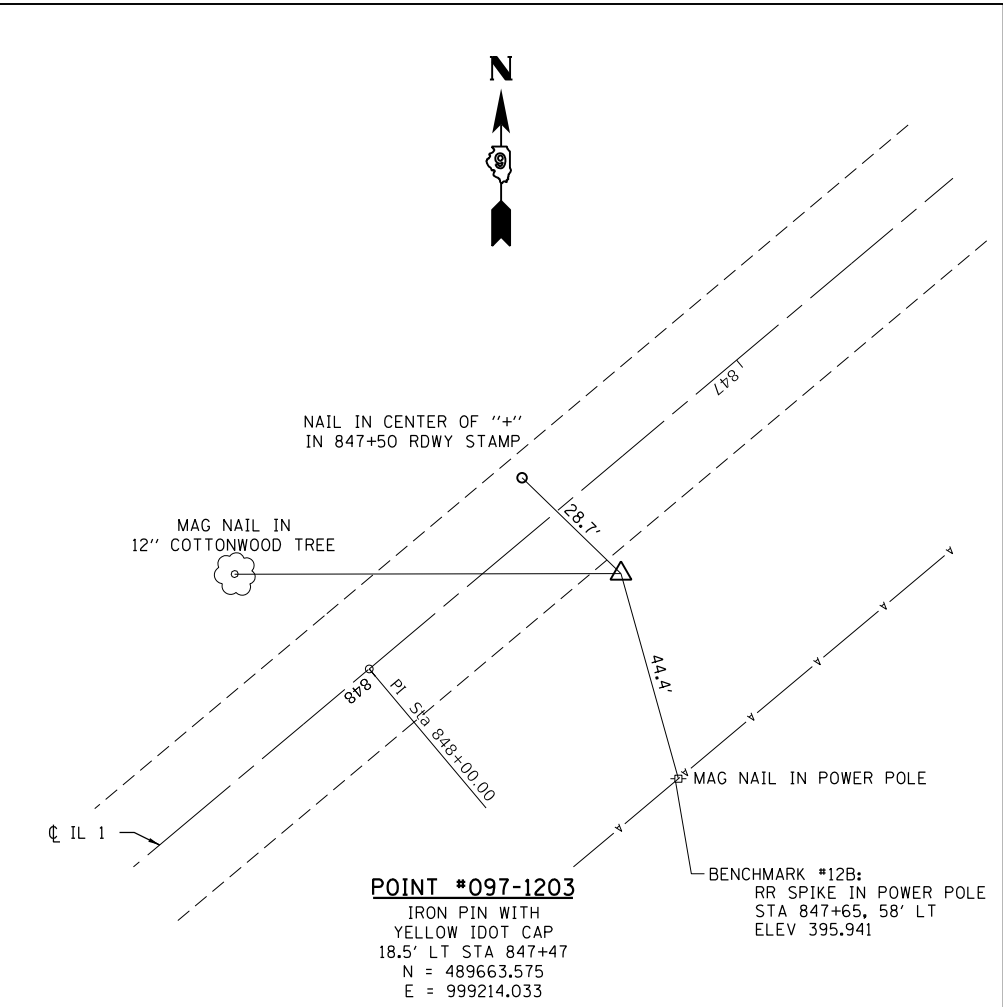
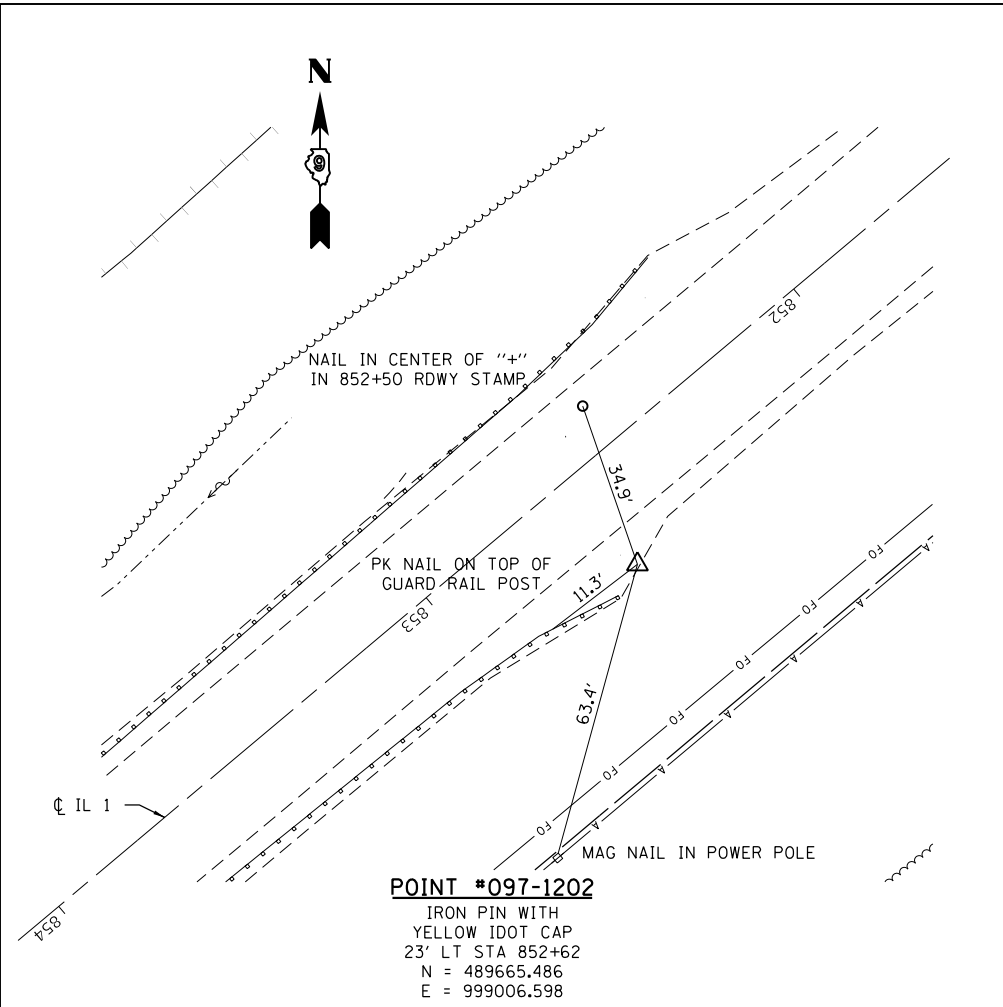
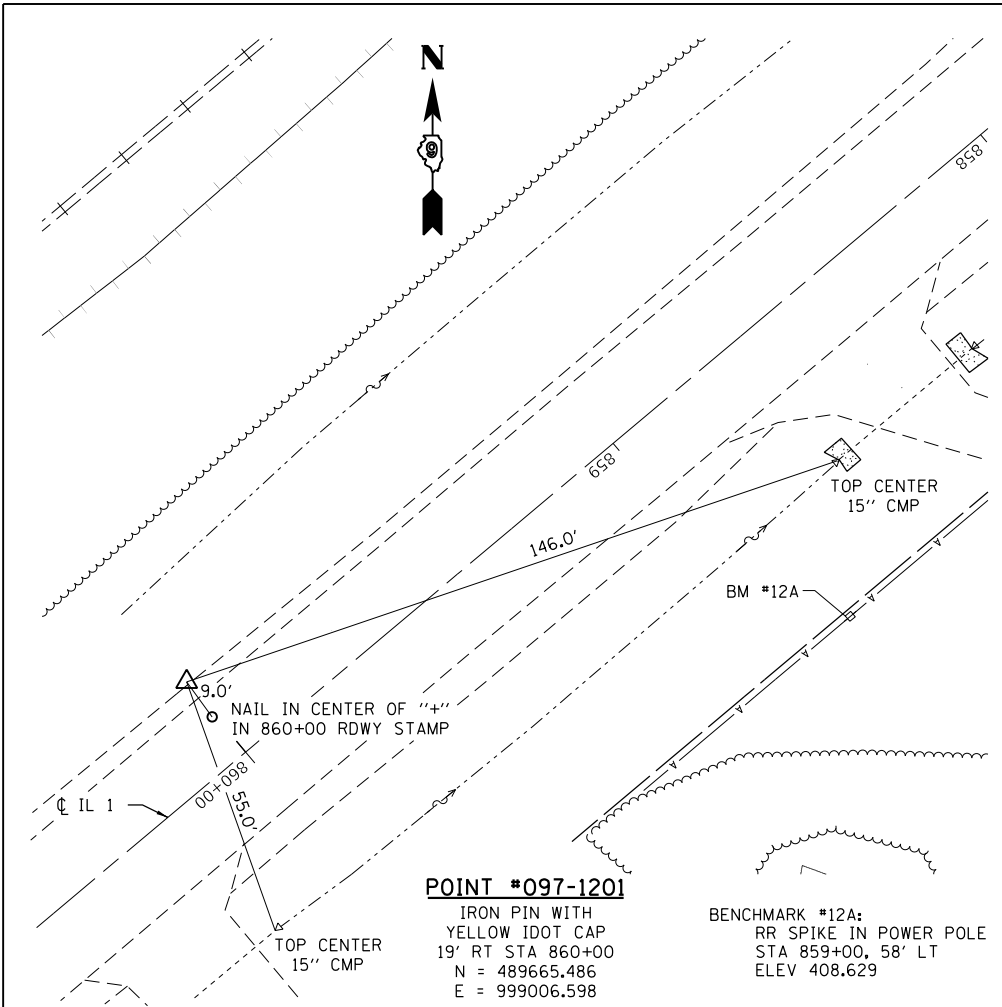


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PLOT SCALE = 40.0000 ' / in.	DRAWN - J.E.B.	REVISED -
PLOT DATE = 9/29/2020	CHECKED - R.H.D.	REVISED -
	DATE - 09/29/2020	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES			
ILLINOIS ROUTE 1 OVER LICK CREEK			
SCALE:	SHEET	OF	SHEETS
	STA.	TO	STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	2B-3	WHITE	45	12
CONTRACT NO. 78328				
ILLINOIS FED. AID PROJECT				



USER NAME =	DESIGNED -	REVISED -
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	CHECKED - C.P.K.	REVISED -

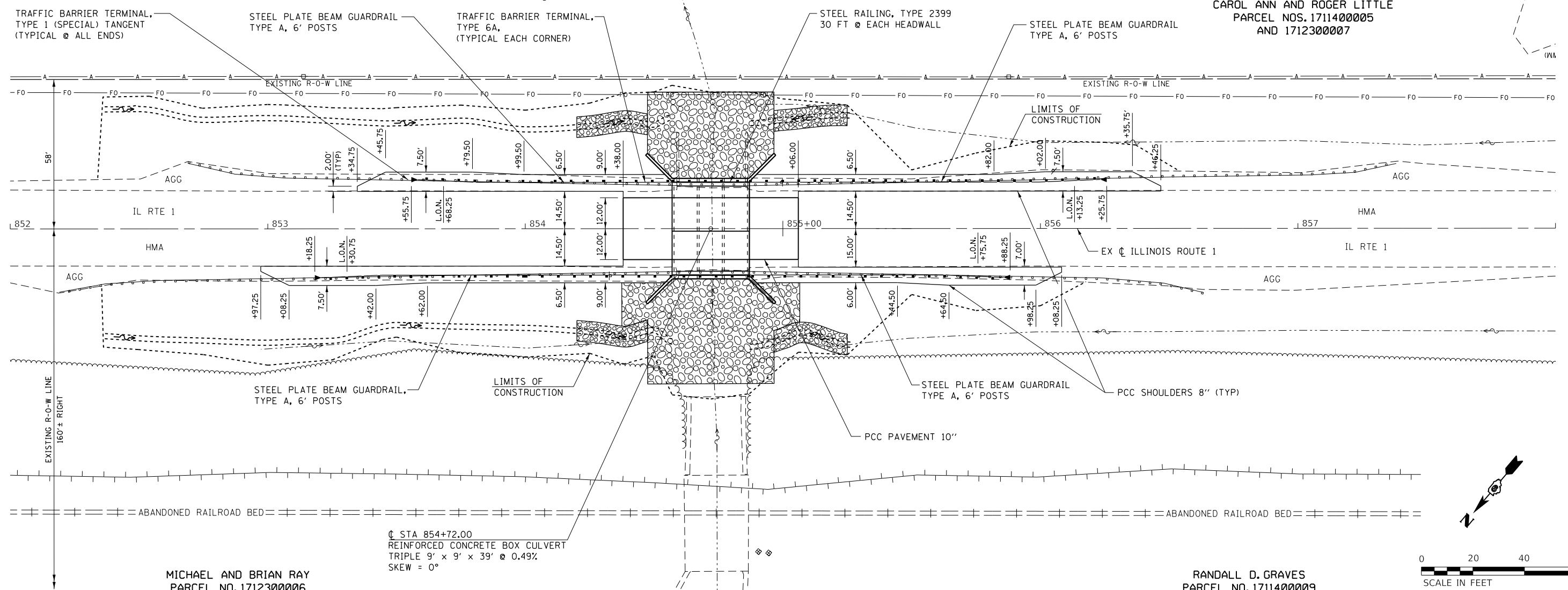
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

CROSS TIES AND BENCHMARK DETAILS

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	2B-3	WHITE	45	13
CONTRACT NO. 78328				
ILLINOIS FED. AID PROJECT				

CAROL ANN AND ROGER LITTLE
PARCEL NOS. 1711400005
AND 1712300007



MICHAEL AND BRIAN RAY
PARCEL NO. 1712300006

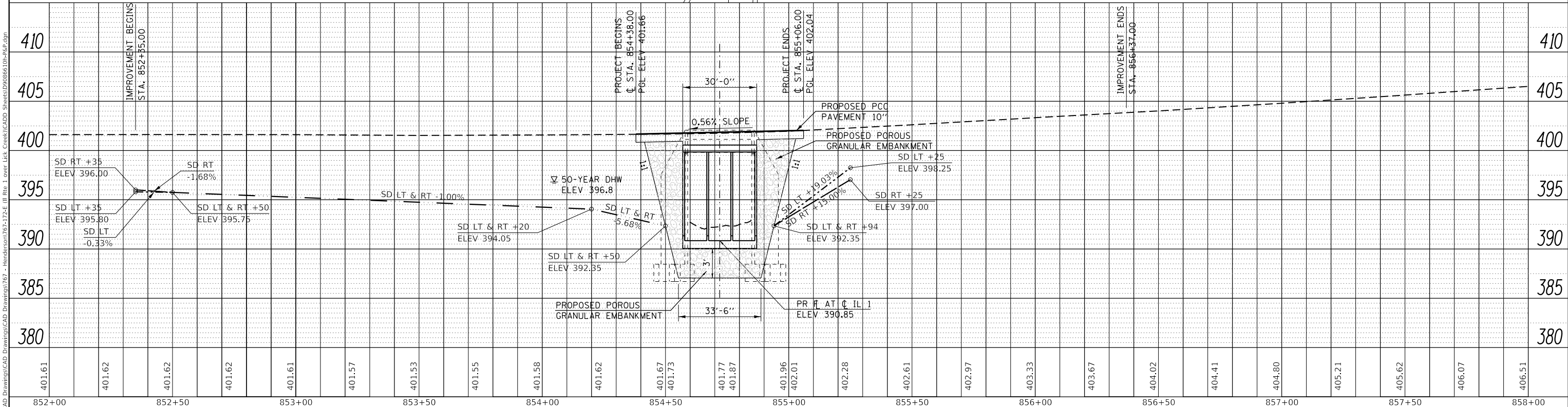
RANDALL D. GRAVES
PARCEL NO. 1711400009

☐ STA 854+72.00
REINFORCED CONCRETE BOX CULVERT
TRIPLE 9' x 9' x 39' @ 0.49%
SKEW = 0°



PLAN	SURVEYED	DATE
	PLOTTED	
	ALIGNED	
	CHECKED	
	FILED	
	NO.	

PROFILE	SURVEYED	DATE
	PLOTTED	
	GRADES	
	CHECKED	
	STRUCTURE	
	NOTATIONS	
	CPWD	
	NO.	



vasconcelles
engineering corporation
2417 west white oaks drive
springfield, il 62704
phone (217)693-3114
professional design firm
registration no. 184-002107

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DESIGNED - J.E.B.
DRAWN - J.E.B.
CHECKED - R.H.D.
DATE - 09/29/2020

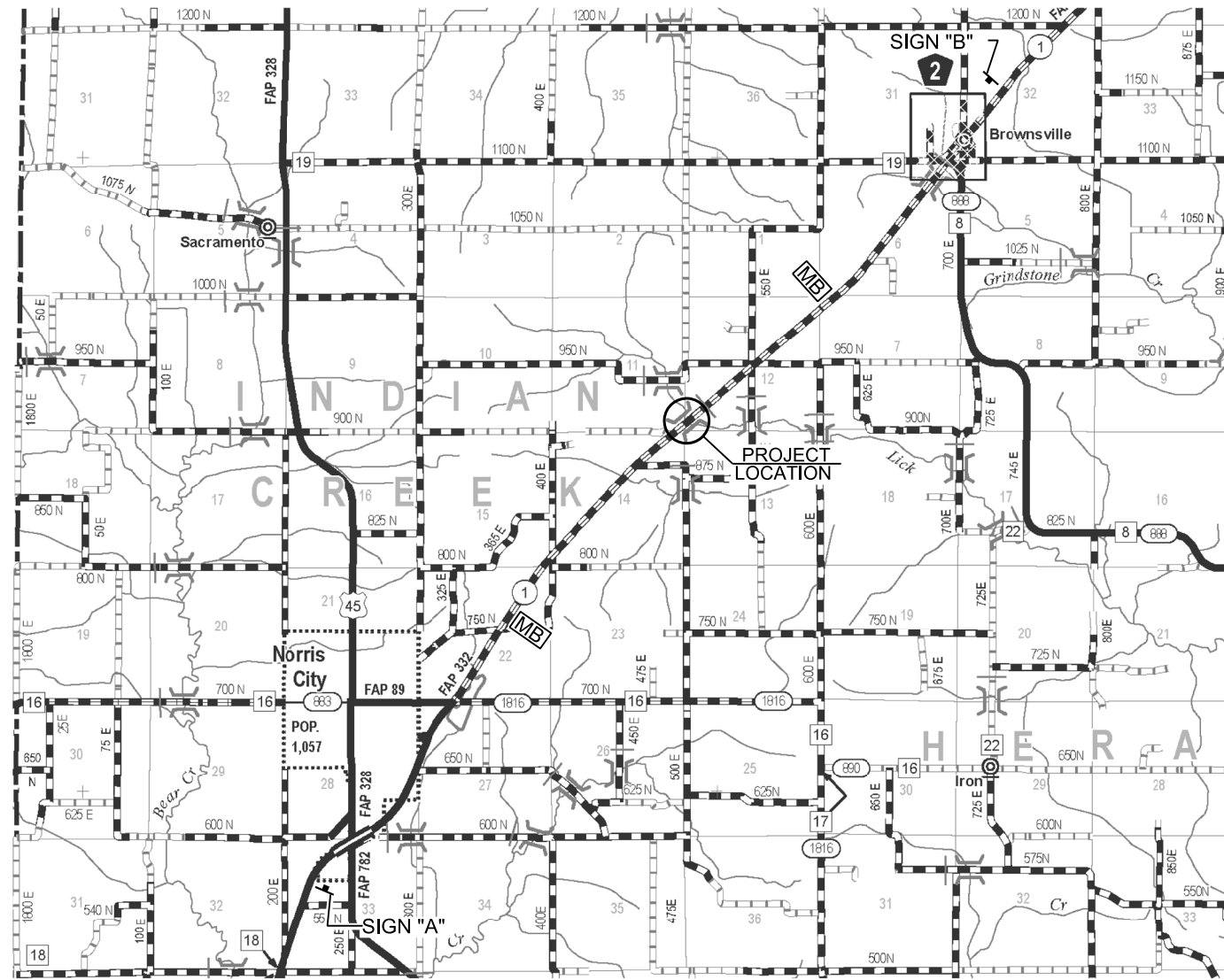
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REVISIED -
REVISIED -
REVISIED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PLAN AND PROFILE
ILLINOIS ROUTE 1 OVER LICK CREEK

SCALE: 1" = 40'
SHEET 1 OF 1 SHEETS
STA. 852+00 TO STA. 858+00

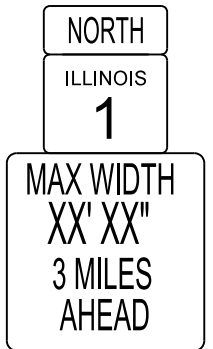
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332	2B-3	WHITE	45	14
CONTRACT NO. 78328				
ILLINOIS FED. AID PROJECT				



SIGNING PLAN

STAGING GENERAL NOTES

1. TRAFFIC CONTROL SHALL BE ERECTED AS SHOWN AND ACCORDING TO TRAFFIC CONTROL AND PROTECTION, STANDARD 701321. SEE STANDARD 701321 FOR THE COMPLETION OF STAGE CONSTRUCTION TRAFFIC CONTROL THAT IS NOT SHOWN THAT INCLUDES, BUT IS NOT LIMITED TO, ADVANCE SIGNING, ADVANCE LOOP PLACEMENT, DRUMS WITH STEADY BURNING LIGHTS, DOUBLE VERTICAL PANELS AND BARRIER WALL/GUARDRAIL MARKERS.
2. SEE SPECIAL PROVISIONS FOR ADDITIONAL TRAFFIC CONTROL REQUIREMENTS.
3. TEMPORARY RUMBLE STRIPS SHOWN ON STANDARD 701321 WILL BE REQUIRED.
4. THE DIMENSION SHOWN ON THE WIDTH RESTRICTION SIGN (W12-10210)-48) SHOWN ON STANDARD 701321 AND ON THE ADVANCE WARNING SIGN (W12-1103) SHOWN ON THIS SHEET SHALL BE 13'-0" FOR STAGE I CONSTRUCTION AND 13'-7 1/2" FOR STAGE II CONSTRUCTION.
5. THE CENTERLINE PAVEMENT MARKING SHALL BE REMOVED FROM THE STOP BAR TO THE SAND ATTENUATORS OR DRUMS. EDGE LINE PAVEMENT MARKING SHALL BE REMOVED IF A 10 FT. LANE WIDTH CANNOT BE MAINTAINED. TEMPORARY EDGE LINES SHALL BE INSTALLED WHEN THE EDGE LINES ARE REMOVED.
6. THE TEMPORARY SIGNALS SHALL REMAIN IN OPERATION AND THE TEMPORARY BARRIERS SHALL REMAIN IN PLACE UNTIL THE CULVERT, GUARDRAIL AND TRAFFIC BARRIER TERMINALS, PCC PAVEMENT AND SHOULDERS ARE COMPLETED. AFTER COMPLETION OF THE DESIGNATED WORK THE TEMPORARY CONCRETE BARRIER WILL BE REMOVED AND THE TEMPORARY SIGNALS WILL BE EITHER REMOVED OR TURNED OFF AND COVERED.
7. THE TEMPORARY CONCRETE BARRIER SHALL BE PINNED AS SPECIFIED IN SECTION 704 OF THE SUPPLEMENTAL SPECIFICATIONS AND AS SHOWN ON THE PLANS.
8. THE COST OF PROVIDING SIGNS A & B AND THEIR POSTS AND ALL WORK NECESSARY TO INSTALL THEM IS INCLUDED IN THE COST OF TRAFFIC CONTROL AND PROTECTION STANDARD 701321.



SIGN A

W12-1103 48" X 48" WITH XX' XX' LETTERS BLACK ON ORANGE MAX WIDTH & 2 MILES AHEAD BLACK ON WHITE WITH M3-1 30X15 AND M1-1100 30X24

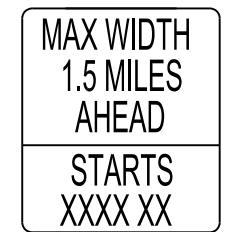
LOCATED SOUTHWEST OF THE INTERSECTION OF IL 1 AND US 45



SIGN B

W12-1103 48" X 48" WITH XX' XX' LETTERS BLACK ON ORANGE MAX WIDTH & 2 MILES AHEAD BLACK ON WHITE WITH M3-1 30X15 AND M1-1100 30X24

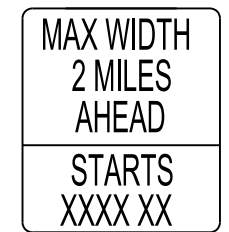
LOCATED NORTHEAST OF THE INTERSECTION OF IL 1 AND CH 8



MESSAGE BOARD

LOCATED NORTHEAST OF THE INTERSECTION OF IL 1, CR950N & CR550E

MESSAGE BOARDS TO BE PLACED TWO WEEKS BEFORE CONSTRUCTION BEGINS



MESSAGE BOARD

LOCATED SOUTHWEST OF THE INTERSECTION OF IL 1, CR400E & CR800N

MODEL: D:\info\... FILE: NAME: S:\CAD... vasconcelles engineering corporation 2417 west white oaks drive springfield, il 62704 phone (217)699-3114 professional design firm registration no. 184-002107

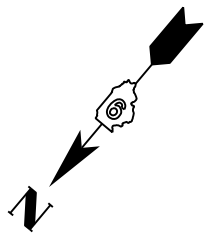


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PLOT DATE = 9/29/2020	CHECKED - R.H.D.	REVISED -
	DATE - 09/29/2020	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

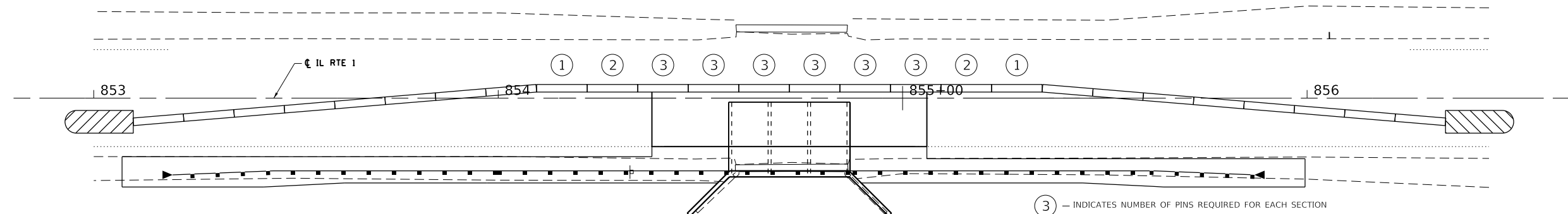
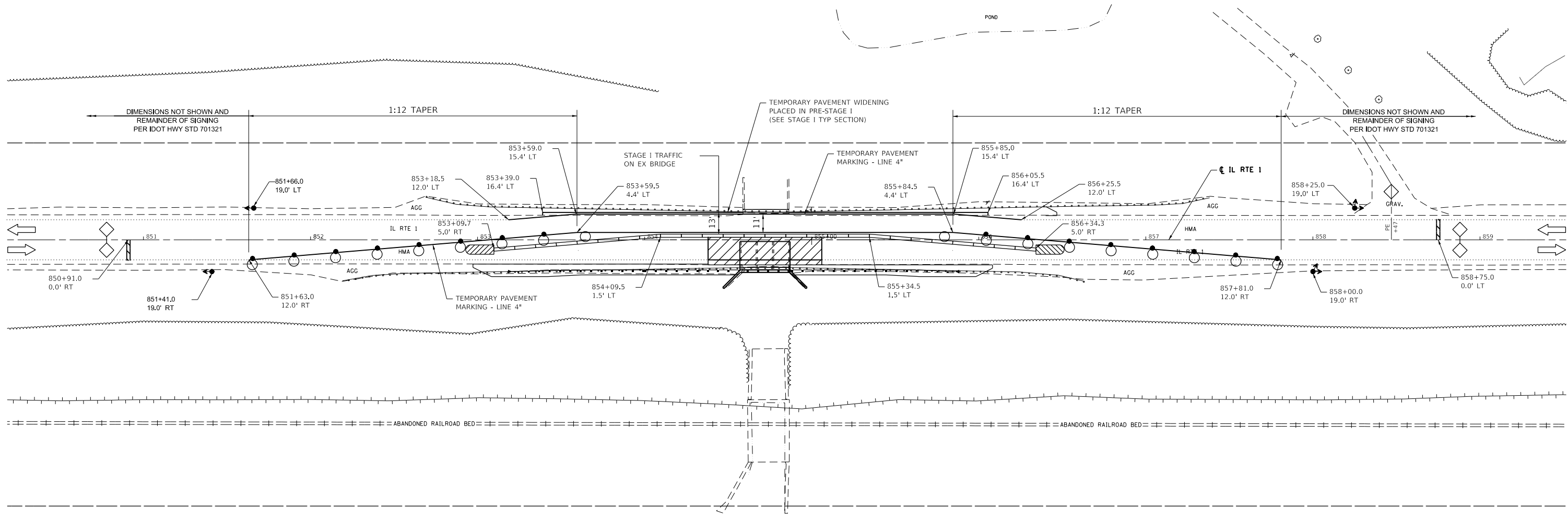
WIDTH RESTRICTION SIGNING	
ILLINOIS ROUTE 1 OVER LICK CREEK	
SCALE: 1" = 20'	SHEET 1 OF 1 SHEET STA. 852+00.00 TO STA. 858+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	2B-3	WHITE	45	15
CONTRACT NO. 78328				
ILLINOIS FED. AID PROJECT				



SYMBOLS

- WORK AREA
- SIGN
- TYPE III BARRICADE WITH FLASHING LIGHTS
- TRAFFIC SIGNAL
- DETECTOR LOOPS
- STOP BAR
- EXISTING R-O-W LINE
- DRUM
- DRUM WITH STEADY BURNING BI-DIRECTIONAL LIGHT
- TEMPORARY CONCRETE BARRIER
- IMPACT ATTENUATOR
- TEMPORARY RUMBLE STRIP (WHEN SPECIFIED)
- DOUBLE VERTICAL PANEL (SEE DETAIL)
- CRYSTAL, DIRECTIONAL GUARDRAIL/BARRIER WALL REFLECTOR



TEMPORARY CONCRETE BARRIER PINNING DIAGRAM

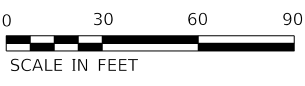
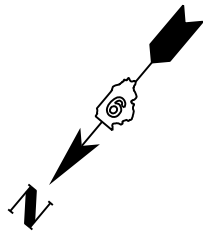
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	DATE - 09/29/2020	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

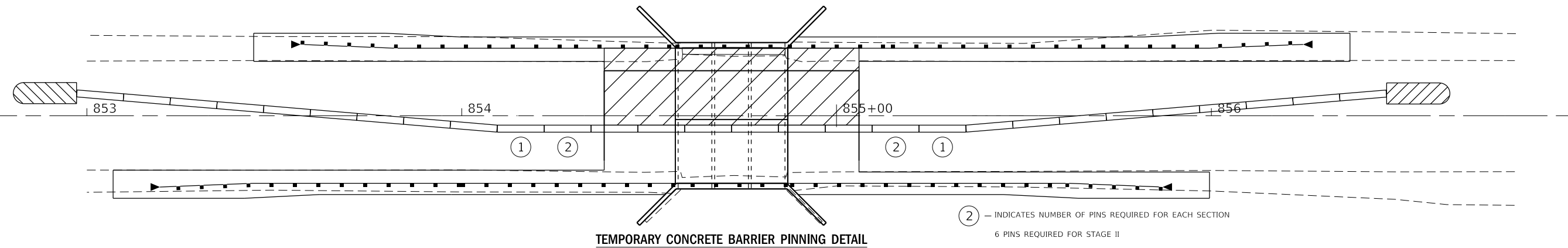
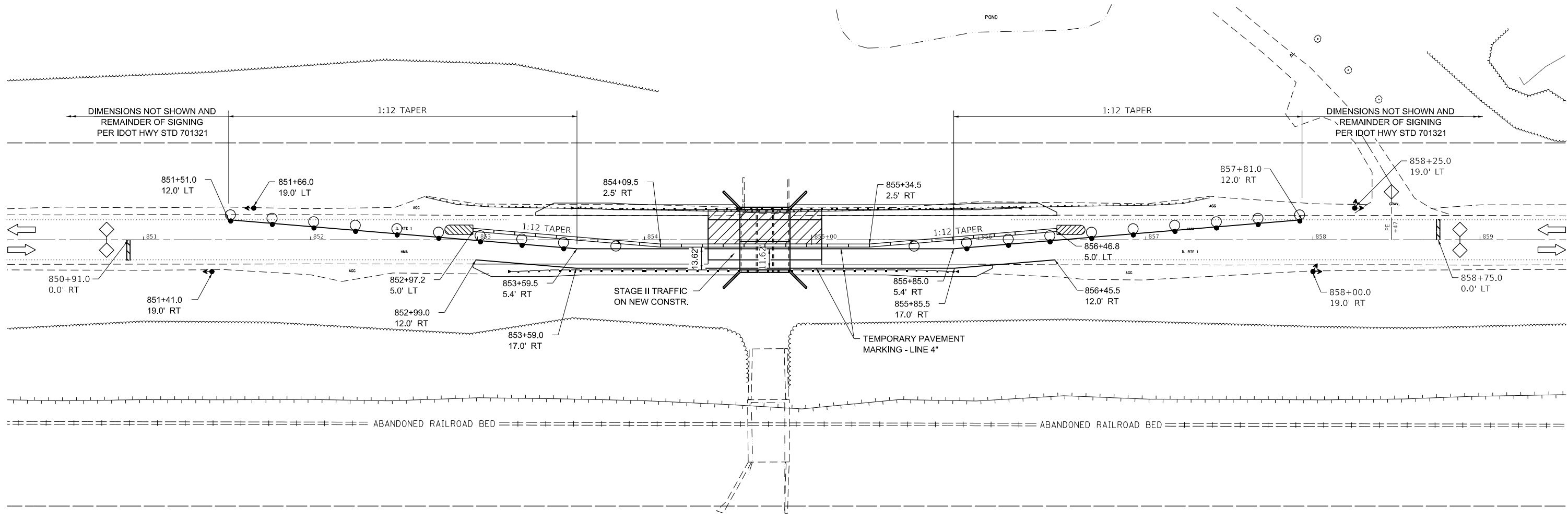
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ILLINOIS ROUTE 1 OVER LICK CREEK			
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	2B-3	WHITE	45	16
CONTRACT NO. 78328				
ILLINOIS FED. AID PROJECT				



SYMBOLS

	WORK AREA		DRUM
	SIGN		DRUM WITH STEADY BURNING BI-DIRECTIONAL LIGHT
	TYPE III BARRICADE WITH FLASHING LIGHTS		TEMPORARY CONCRETE BARRIER
	TRAFFIC SIGNAL		IMPACT ATTENUATOR
	DETECTOR LOOPS		TEMPORARY RUMBLE STRIP (WHEN SPECIFIED)
	STOP BAR		DOUBLE VERTICAL PANEL (SEE DETAIL)
			CRYSTAL, DIRECTIONAL GUARDRAIL/BARRIER WALL REFLECTOR



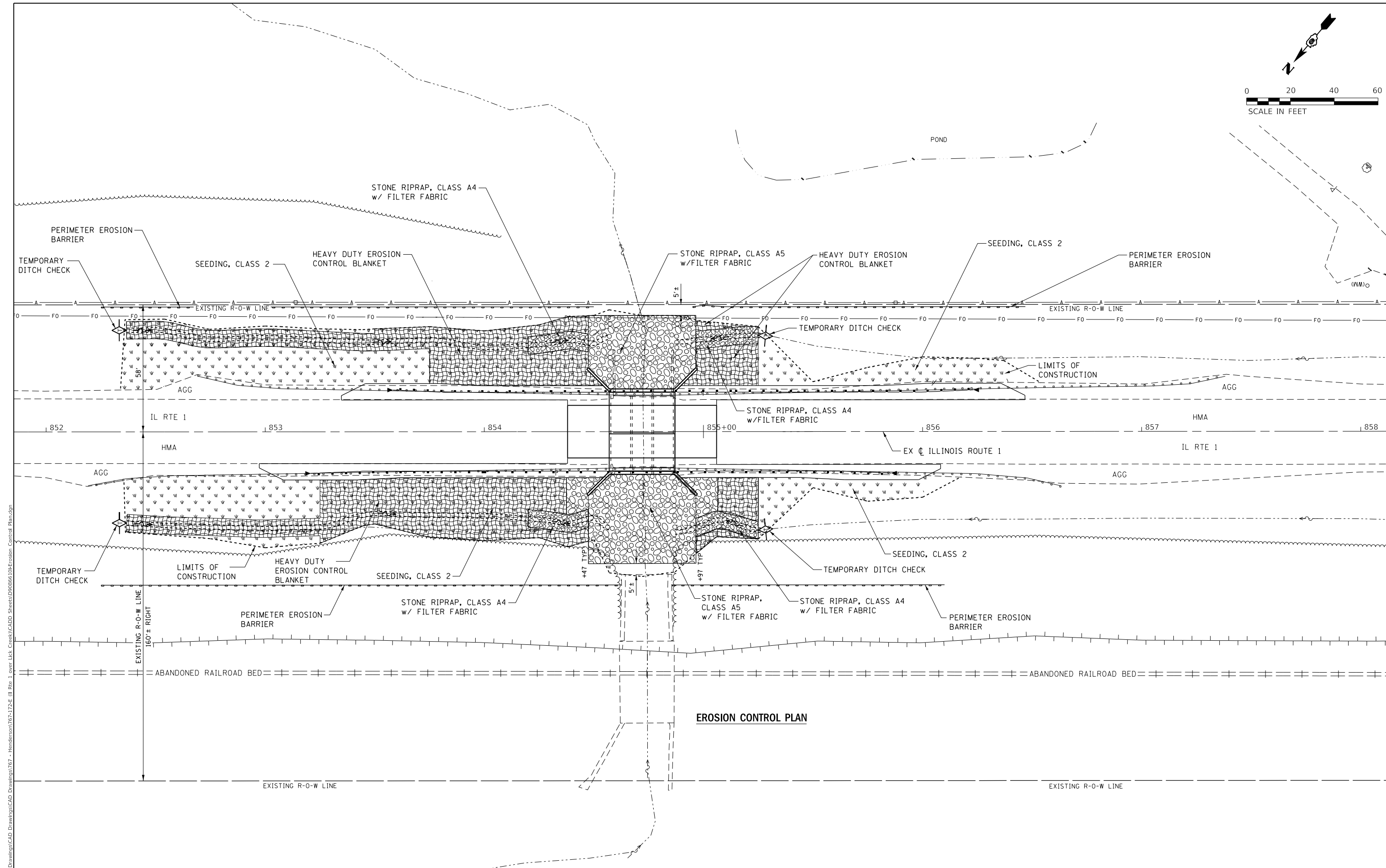
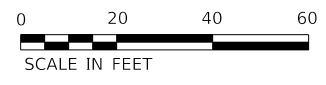
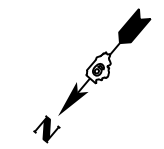
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PLOT DATE = 9/29/2020	DATE - 09/29/2020	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

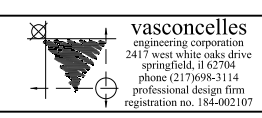
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ILLINOIS ROUTE 1 OVER LICK CREEK			
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F.A.P. RTE. 332	SECTION 2B-3	COUNTY WHITE	TOTAL SHEETS 45	SHEET NO. 17
CONTRACT NO. 78328				
ILLINOIS FED. AID PROJECT				



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EROSION CONTROL PLAN



vasconcelles
 engineering corporation
 2417 west white oaks drive
 springfield, il 62704
 phone (217)699-3114
 professional design firm
 registration no. 184-002107

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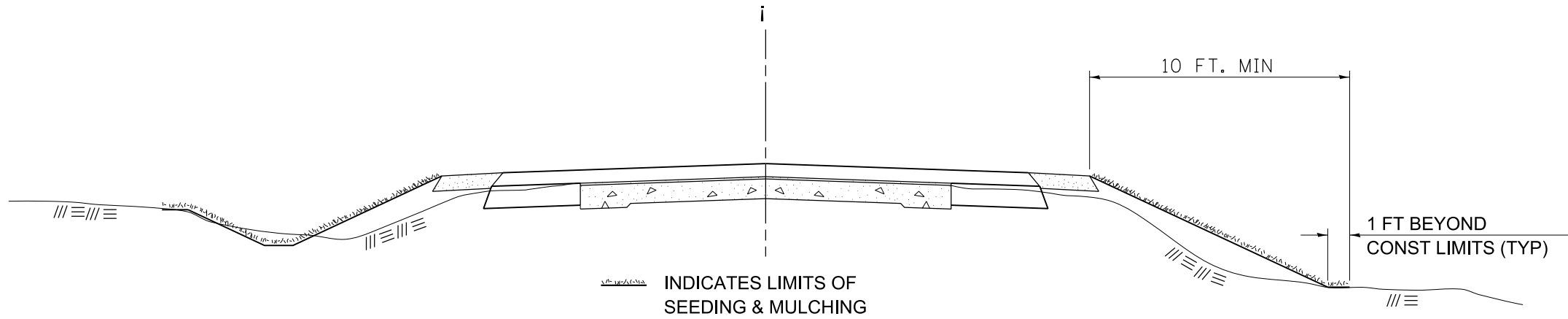
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EROSION CONTROL PLAN
ILLINOIS ROUTE 1 OVER LICK CREEK

SCALE: 1" = 20' SHEET 1 OF 1 SHEET STA. 852+00.00 TO STA. 858+00.00

F.A.P. RTE. 332	SECTION 2B-3	COUNTY WHITE	TOTAL SHEETS 45	SHEET NO. 18
CONTRACT NO. 78328				
ILLINOIS FED. AID PROJECT				

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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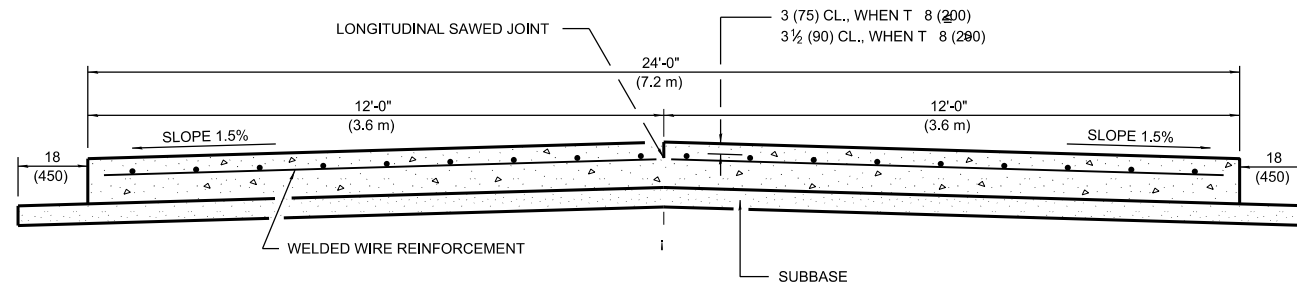
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**DISTRICT 9 STANDARD 9-12
SEEDING & MULCHING**

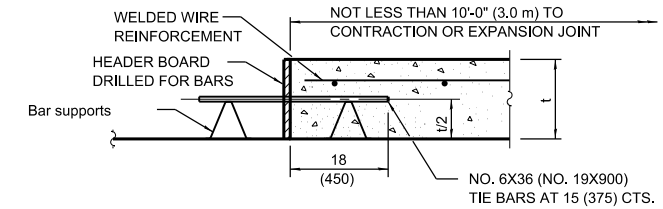
SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	2B-3	WHITE	45	19
CONTRACT NO. 78238				
ILLINOIS FED. AID PROJECT				

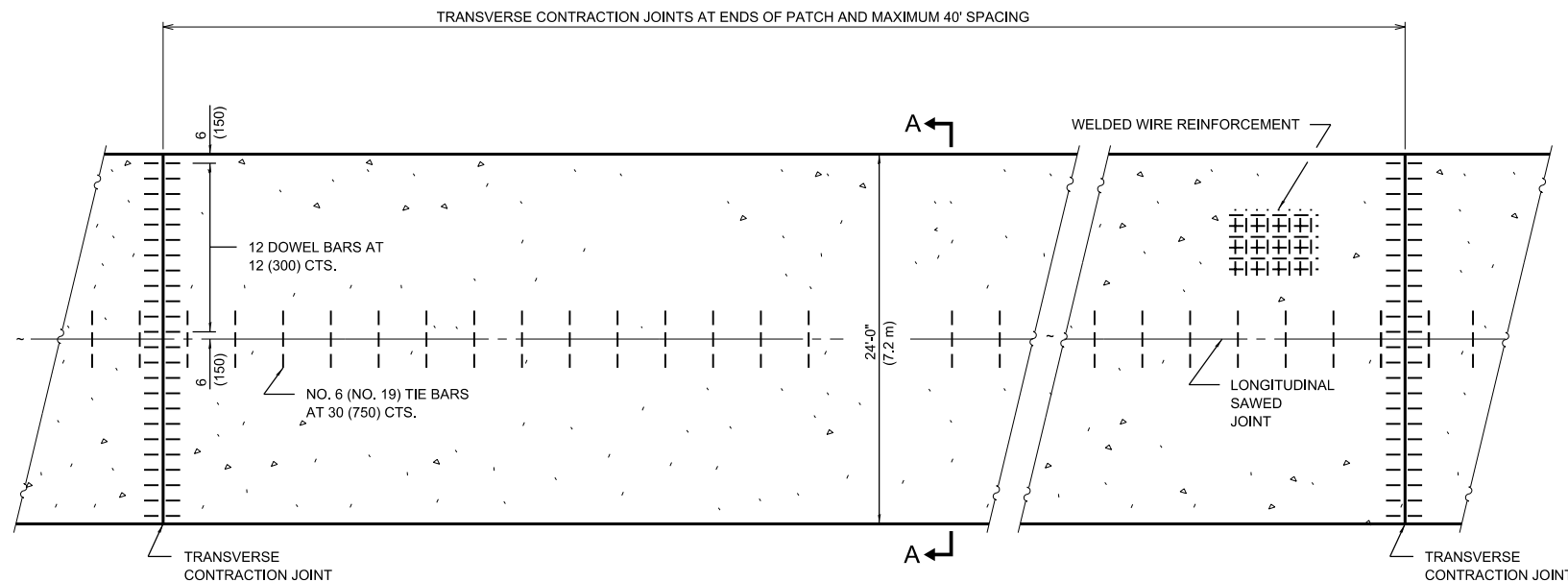
24' (7.2 m) PCC PAVEMENT OVER BOX CULVERT



SECTION A-A
(TYPICAL 2-LANE WITH SHOULDERS)



TRANSVERSE CONSTRUCTION JOINT
(IF NEEDED PER STANDARD SPECIFICATIONS)



PLAN

GENERAL NOTES
SEE STANDARD 420001 FOR DETAILS NOT SHOWN.
SEE STANDARD 420701 FOR WELDED WIRE REINFORCEMENT DETAILS.
ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.
ACTUAL DIMENSIONS TO MATCH FIELD CONDITIONS AND CONSTRUCTION METHODS.

REVISIONS

DRAWN	11-9-17
REVISED	7-23-18

STD. 9-25

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**DISTRICT 9 STANDARD 9-25
24' PCC PAVEMENT OVER BOX CULVERT**

SCALE: SHEET OF SHEETS STA. TO STA.

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

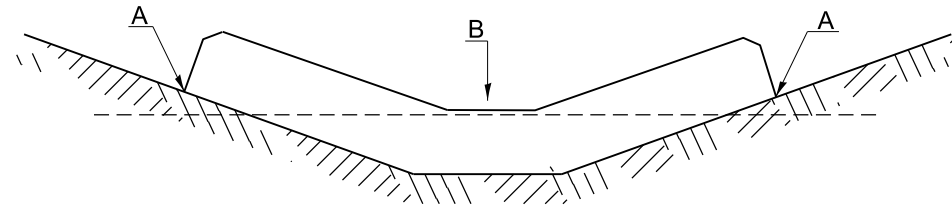
MODEL: D:\p1\11\11\CAD Drawings\CAD Drawings\767-172E (R) Rte 1 over Lick Creek\CADD_Sheet\908665\09-PCC_Pavement.dgn

vasconcelles
engineering corporation
2417 west white oaks drive
springfield, il 62704
phone (217)699-3114
professional design firm
registration no. 184-002107

USER NAME = jbeque	DESIGNED - D9	REVISED -
DRAWN - D9	CHECKED - D9	REVISED -
PLOT SCALE = 4.0000' / in.	DATE - 09/29/2020	REVISED -
PLOT DATE = 9/29/2020		

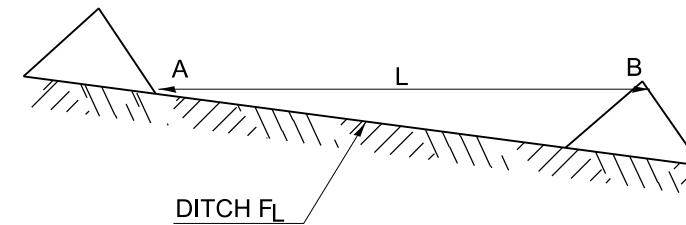
TEMPORARY DITCH CHECKS

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	5-8-08
REVISED	05-04-10
REVIEWED	5-17-13

STD. 9-108

MODEL: D:\p1\11\CAD Drawings\CAD Drawings\767 - Henderson\767-172E (R) Rte 1 over Lick Creek\CADD_Sheet\9086510e-Ditch_Check.dgn



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PLOT SCALE = 4.0000' / in.	DRAWN - D9	REVISED -
PLOT DATE = 9/29/2020	CHECKED - D9	REVISED -
	DATE - 09/29/2020	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**DISTRICT 9 STANDARD 9-108
TEMPORARY DITCH CHECKS**

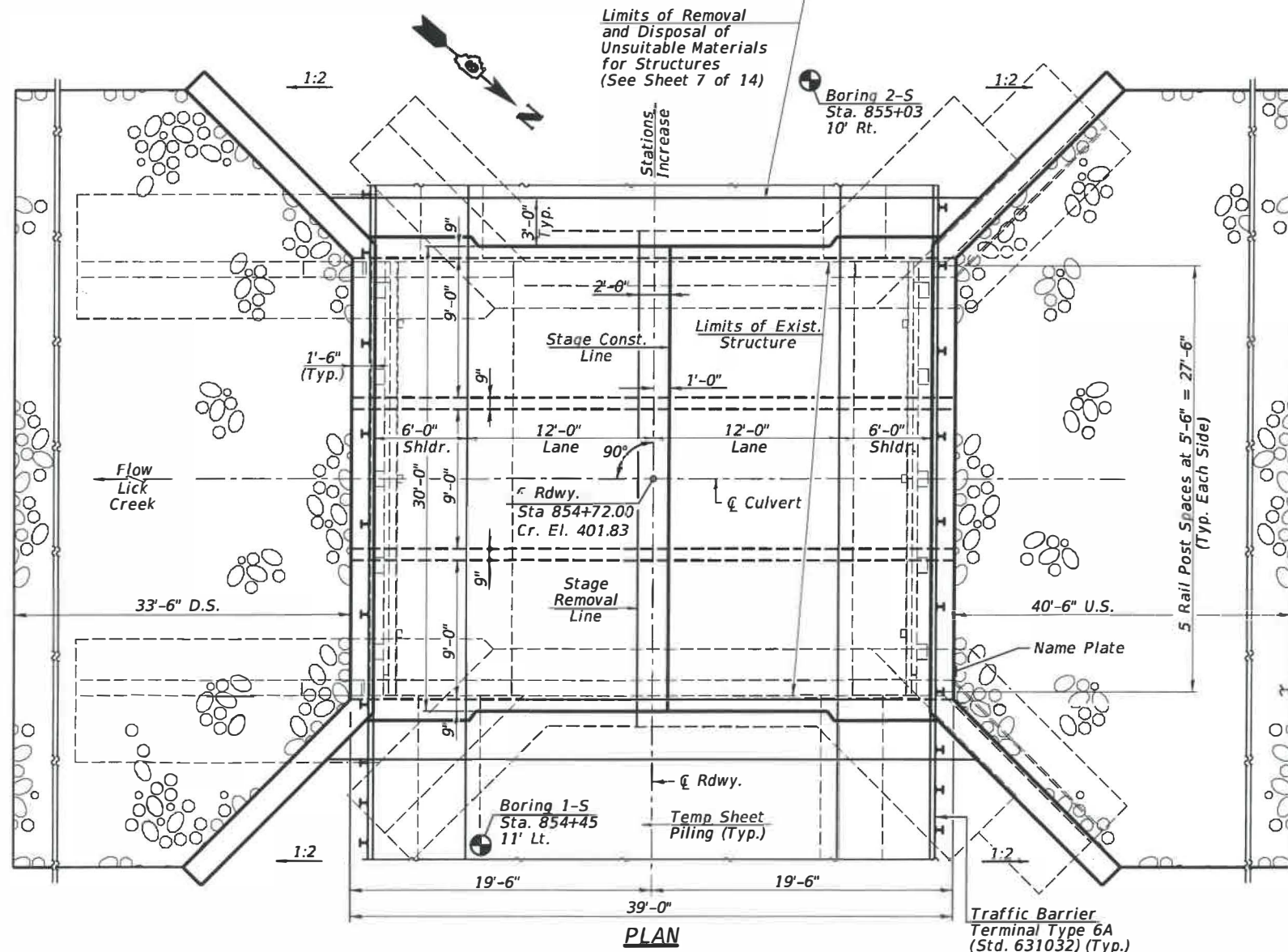
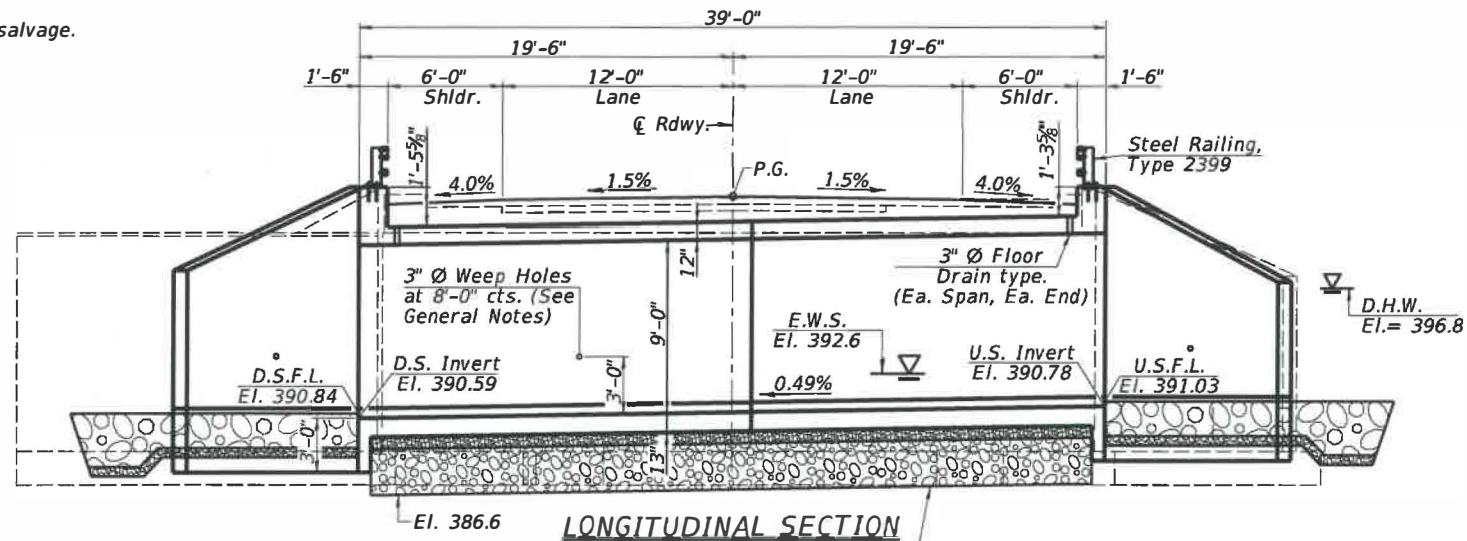
SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	2B-3	WHITE	45	21
CONTRACT NO. 78238				
		ILLINOIS	FED. AID PROJECT	

B.M. AS-39 Chiseled "□" on Southwest wingwall of concrete structure,
West side of IL Route 1 Structure No. 097-0012. Elev. 401.81

Existing Structure: S.N. 097-0012 originally built under SBI Route 1 under Section 2B in 1922. Structure was widened in 1951 under Section 2-B-Y from 22' to 36'-4" 0-0. The structure is a R.C. Slab on closed abutments with spread footings on rock, with T-type concrete wingwalls. 28'-0" bk.-bk. abutments, 0° skew, Clear width is 33'-0" between curbs, and 36'-4" out to out with Type 2399 steel railing. Traffic to be maintained utilizing Stage Construction. \bar{C} Structure Sta. 855+40.40 from the existing widening plans now equates to Sta. 854+72.00.

No salvage.



INDEX OF SHEETS

- 1 - General Plan & Elevation
- 2 - General Data
- 3 - Stage Construction Details
- 4 - Temporary Concrete Barrier for Stage Construction
- 5 - Culvert Plan
- 6-7 - Culvert Details
- 8 - Steel Railing, Type 2399
- 9 - Bar Splicer Assembly and Mechanical Splicer Details
- 10 - Boring Logs
- 11-14 - Existing Structure Plans

WATERWAY INFORMATION

Drainage Area = 2.95 Sq. Mi.		Exist. Overtopping Elev. = 401.4 @ Sta. 848+00 to 854+00									
		Prop. Overtopping Elev. = 401.4 @ Sta. 848+00 to 854+00									
Flood	Freq. Yr.	Q C.F.S.	Opening Sq. Ft.		Nat. H.W.E.		Head - Ft.		Headwater El.		
			Exist.	Prop.	Exist.	Prop.	Exist.	Prop.	Exist.	Prop.	
Design	50	1219	115	156	396.8	2.9	2.4	399.7	399.2		
Base	100	1626	120	161	397.0	3.4	3.1	400.4	400.1		
Overtop Exist.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
Overtop Prop.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
Max. Calc.	500	2127	126	167	397.2	4.1	3.9	401.3	401.1		

10 Yr. Velocity through Exist. Bridge = 6.2 ft/s
10 Yr. Velocity through Prop. Bridge = 4.4 ft/s

DESIGN SPECIFICATIONS

2017 AASHTO LRFD Bridge Design Specifications, 8th Edition

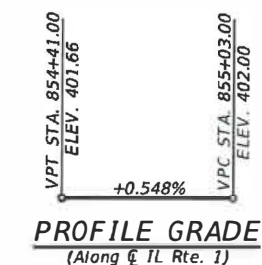
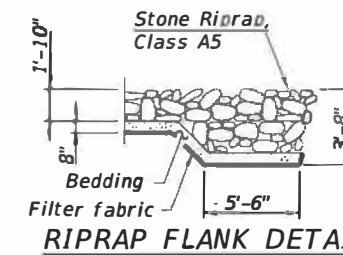
LOADING HL-93

Allow 50#/sq. ft. for future wearing surface

DESIGN STRESSES

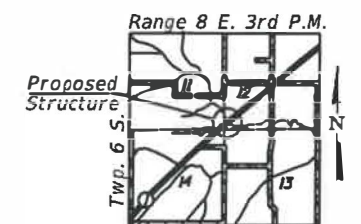
FIELD UNITS

f'c = 3,500 psi (Cast-in-Place)
fy = 60,000 psi (Reinforcement)



STA. 854+72.00
BUILT 20 BY
STATE OF ILLINOIS
F.A.P. RTE 332 - SEC. 2B-3
LOADING HL 93
STR. NO. 097-2018

NAME PLATE
(Standard 515001)



APPROVED
For Structural Adequacy Only
Dr. Carl Pappas
Engineer of Bridges & Structures

MARK A. HENDERSON
303 LICENSED STRUCTURAL ENGINEER
STATE OF ILLINOIS

Mark A. Henderson 12/19/2020
Expires: 11/30/2020

GENERAL PLAN & ELEVATION
IL. ROUTE 1 OVER LICK CREEK
F.A.P. RTE 332 - SECTION 2B-3
WHITE COUNTY
STATION 854+72.00
STRUCTURE NO. 097-2018

V&K
Veenstra & Kimm, Inc.
Springfield, IL Phone: (217)544-8433

USER NAME =	DESIGNED -	REVISED -
PLOT SCALE =	CHECKED -	REVISED -
PLOT DATE =	DRAWN -	REVISED -
	CHECKED -	REVISED -

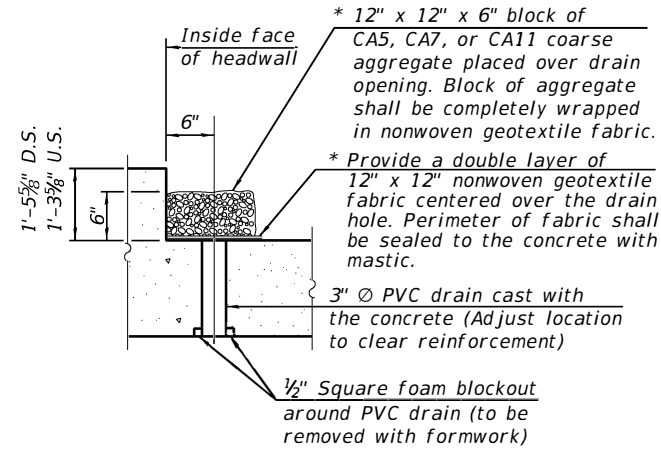
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL PLAN & ELEVATION
STRUCTURE NO. 097-2018
SHEET NO. 1 OF 14 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	2B-3	WHITE	45	22
CONTRACT NO. 78328				
ILLINOIS FED. AID PROJECT				

TOTAL BILL OF MATERIAL

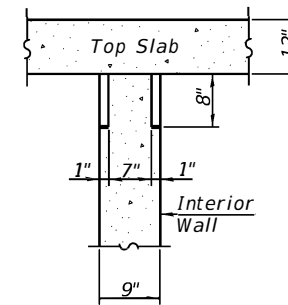
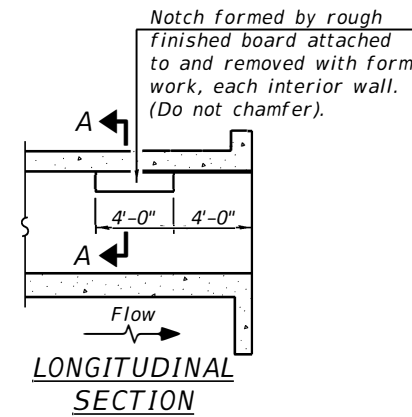
Item	Unit	Total
Porous Granular Embankment	Cu. Yd.	409
Removal of Existing Structures	Each	1
Removal & Disposal of Unsuitable Material for Structures	Cu. Yd.	195
Reinforcement Bars, Epoxy Coated	Pound	31,630
Bar Splicers	Each	176
Steel Railing, Type 2399	Foot	60
Name Plates	Each	1
Temporary Sheet Piling	Sq. Ft.	751
Concrete Box Culverts	Cu. Yd.	193.1
Geocomposite Wall Drain	Sq. Yd.	136
Membrane Waterproofing System for Buried Structures	Sq. Yd.	136
Geotechnical Fabric	Sq. Yd.	235
Rock Fill	Ton	300



DRAIN DETAIL

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

* Nonwoven geotextile fabric shall conform to the requirements of Article 1080.01 of the Standard Specifications. The minimum weight of the fabric shall be 6 ounces per square yard.



SECTION A-A

**PHOEBE NESTING
SITE DETAILS
(Downstream End Only)**

GENERAL NOTES

Reinforcement bars designated (E) shall be epoxy coated. Weep holes shall be provided on exterior culvert walls with a clear rise greater than 3 feet and one in each of the wingwalls. The weep holes shall be located within 1/3 of the clear rise of the box culvert and shall conform to the requirements of Article 503.11 of the Standard Specifications.

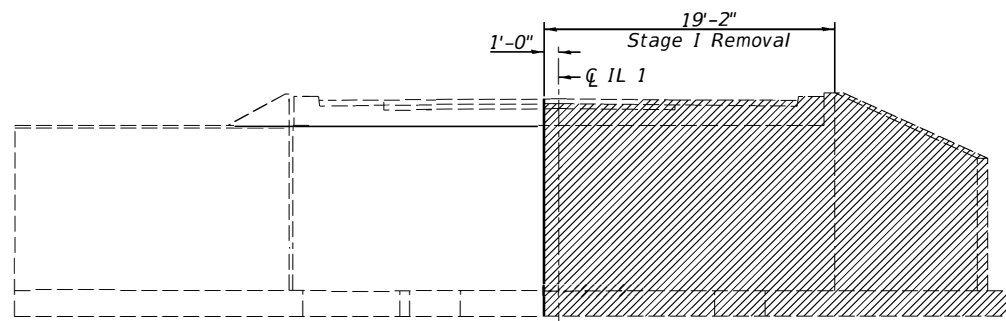
Layout of the slope protection system may be varied to suit ground conditions in the field as directed by the Engineer.

At least 7'-9" of the barrel shall be poured monolithically with the wingwalls.

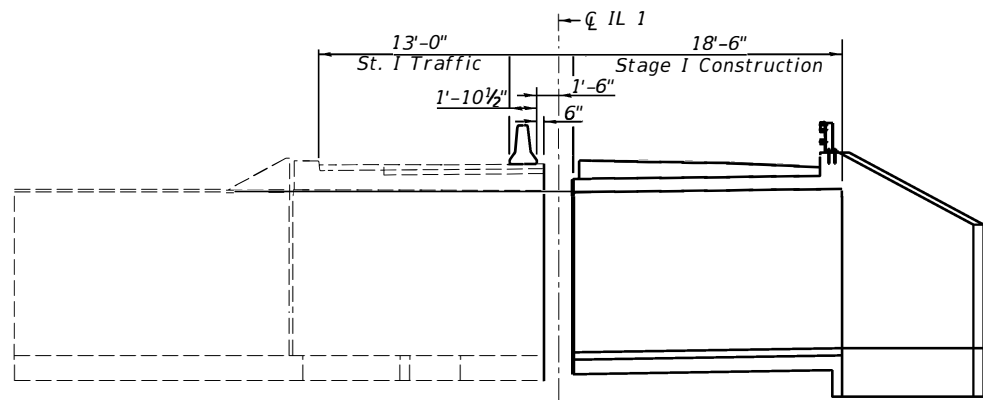
Precast alternate is not allowed.

Excavation behind existing abutment walls shall be performed to balance front and back soil pressure before removing existing superstructure. The contractor shall saw out the upper portion of the existing abutment at the stage removal line before Stage 1 removal to ensure the remaining portion will not be prematurely damaged.

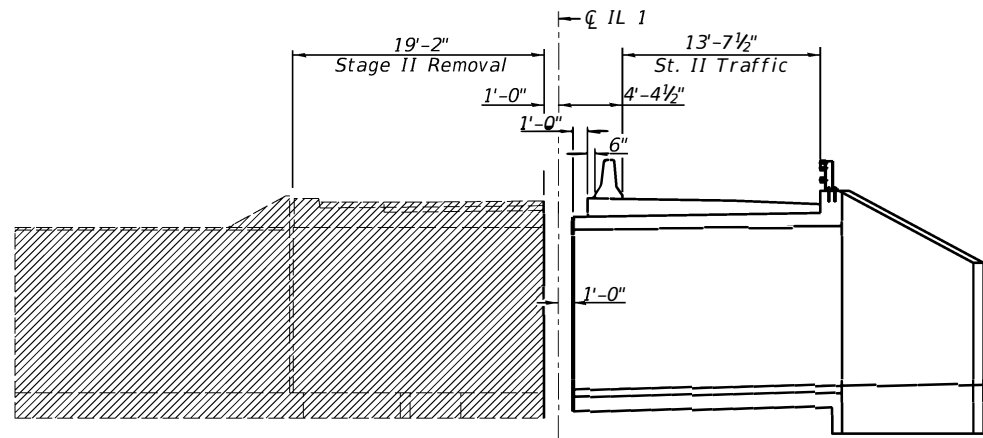
The horizontal limits of Removal and Disposal of Unsuitable Material for Structures shall extend to 3 feet beyond the entire footprint of the proposed culvert. It is necessary to remove the existing foundations in order to prevent the proposed culvert from bridging across the existing footings.



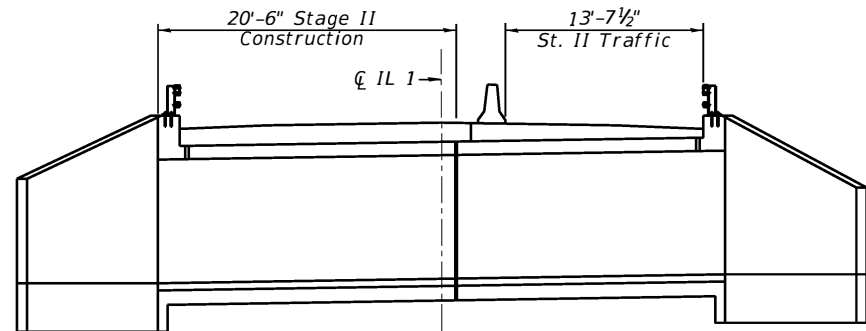
STAGE I REMOVAL
(Looking Southwest)



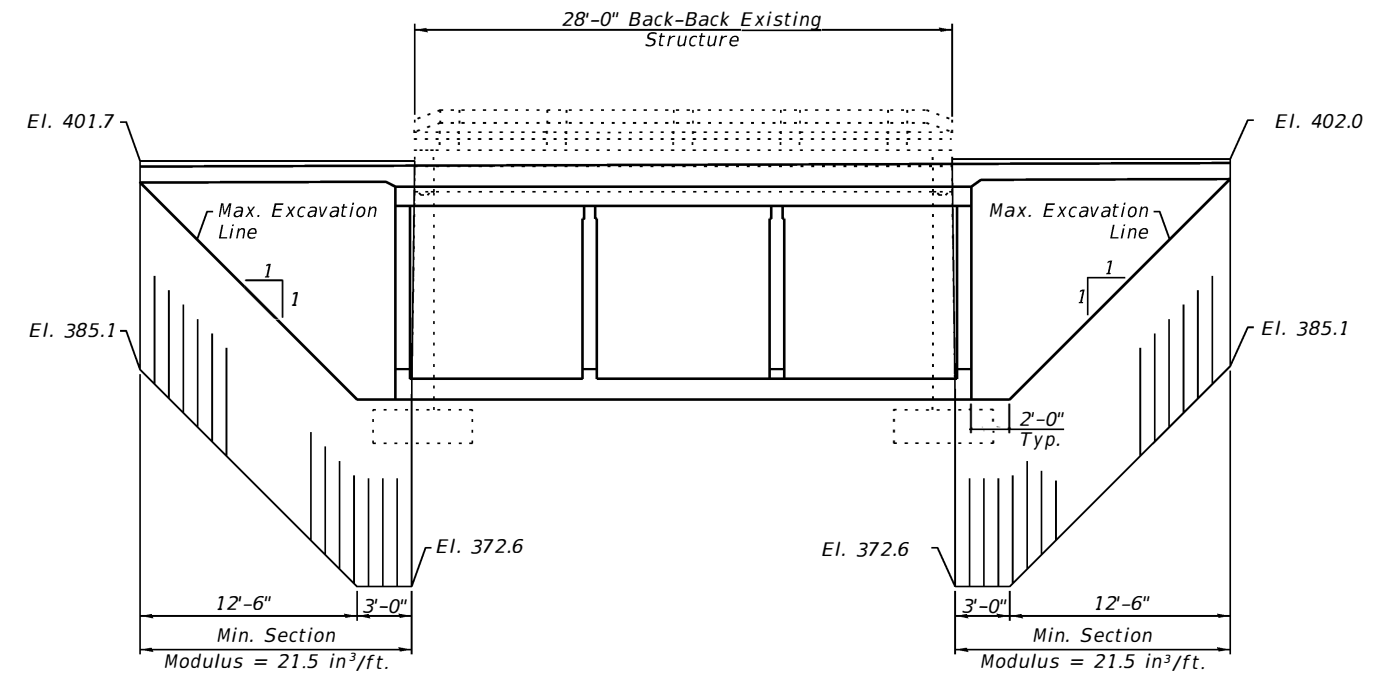
STAGE I CONSTRUCTION
(Looking Southwest)



STAGE II REMOVAL
(Looking Southwest)



STAGE II CONSTRUCTION
(Looking Southwest)



TEMPORARY SHEET PILING
(Looking Southeast)

Note: Hatched area indicates removal of existing structure.
See roadway plans for Temporary Concrete Barrier.



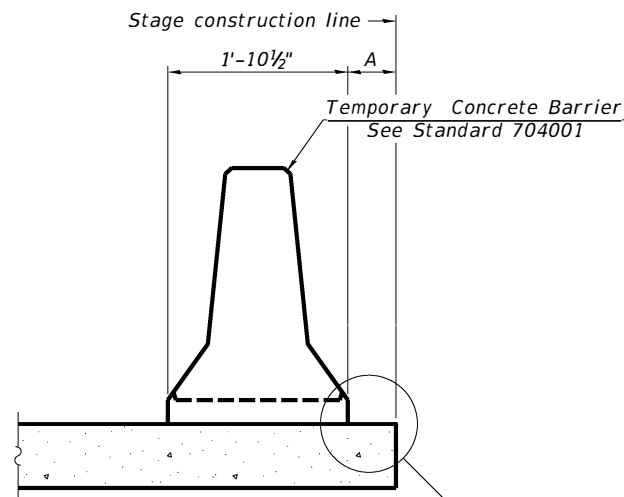
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PLOT SCALE =	CHECKED -	REVISED -
PLOT DATE =	DRAWN -	REVISED -
	CHECKED -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STAGE CONSTRUCTION DETAILS
STRUCTURE NO. 097-2018

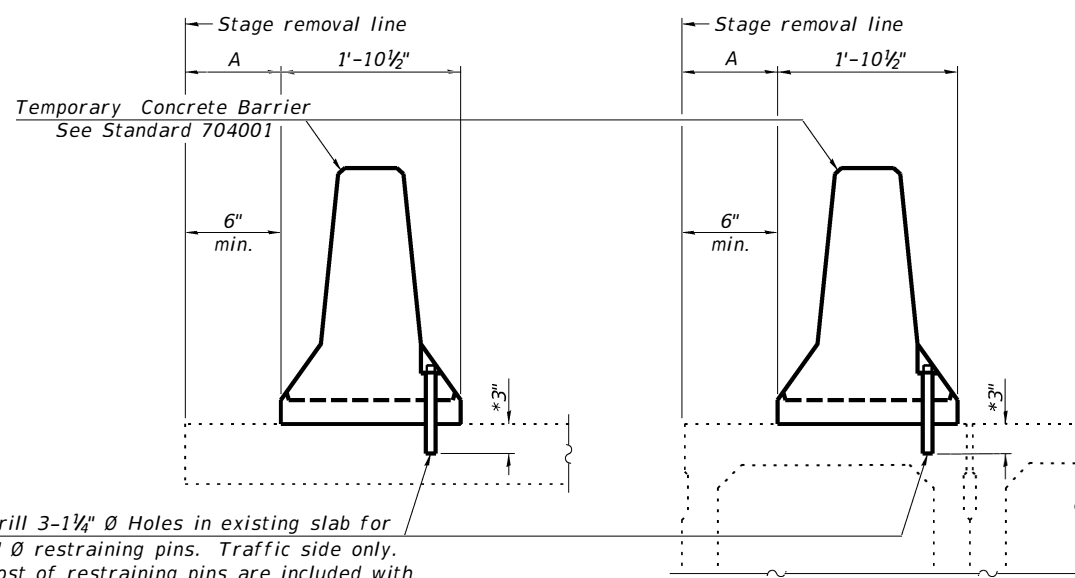
SHEET NO. 3 OF 14 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	2B-3	WHITE	45	24
CONTRACT NO. 78328				
ILLINOIS FED. AID PROJECT				



When "A" is 3'-1" or less, the temporary concrete barrier shall be restrained to the new slab according to Detail I, II or III. No restraint is required when "A" is greater than 3'-1".

NEW SLAB OR NEW DECK BEAM

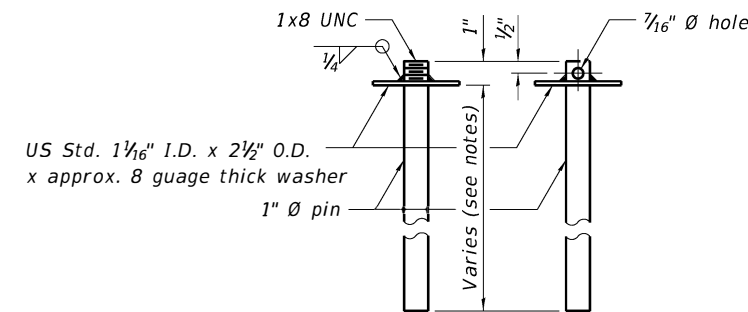


Drill 3-1 1/4" Ø Holes in existing slab for 1" Ø restraining pins. Traffic side only. Cost of restraining pins are included with Temporary Concrete Barrier. No restraint is required when "A" is greater than 3'-1".

EXISTING SLAB

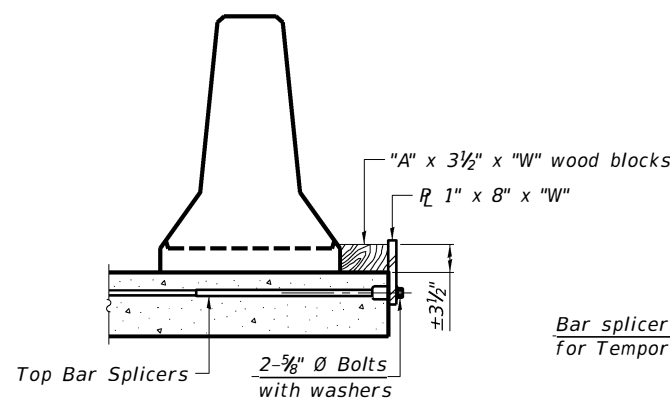
* When hot-mix asphalt wearing surface is present, embedment shall be 3" plus the wearing surface depth.

EXISTING DECK BEAM

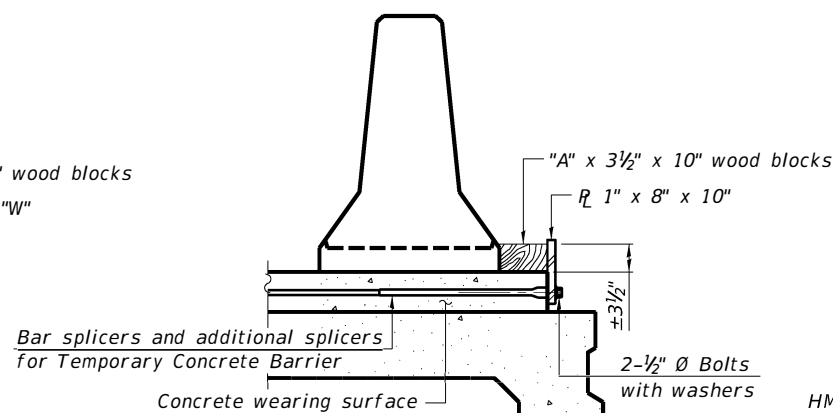


RESTRAINING PIN

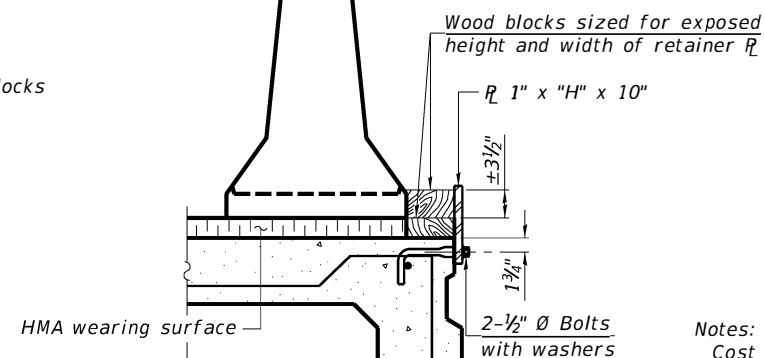
SECTIONS THRU SLAB OR DECK BEAM



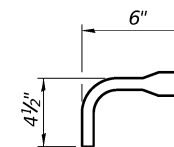
DETAIL I



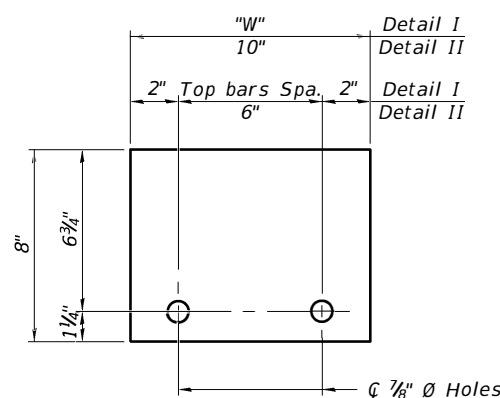
DETAIL II



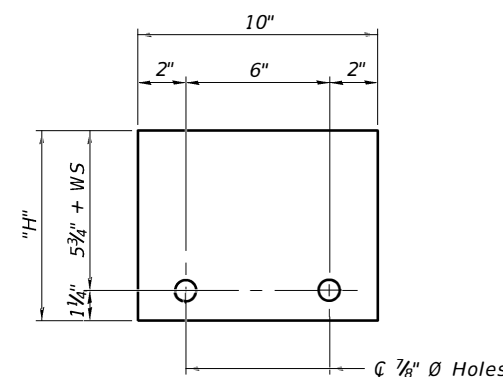
DETAIL III



BAR SPLICER FOR #4 BAR - DETAIL III



STEEL RETAINER 1" x 8" x "W"
(Detail I and II)



STEEL RETAINER 1" x "H" x 10"
(Detail III)

Notes:
 Cost of retainer assembly is included with Temporary Concrete Barrier.
 A retainer assembly shall be located at the approximate \bar{C} of each temporary concrete barrier.
 The retainer plate shall not be removed until the concrete on the adjacent stage is ready to be poured. For Detail III applications the retainer plate shall not be removed until just prior to placing the adjacent beam.
 When the 'A' dimension is less than 1 1/2', the wood block shall be omitted and the barrier shall be placed in direct contact with the steel retainer plate. For deck beam applications the minimum required 'A' distance is 6" to accommodate the shear key clamping device.

Detail I - Installation for a new bridge deck or bridge slab.
 Detail II - Installation for a new deck beam with an initial concrete wearing surface. Additional bar splicers shall be provided at 6'-0" centers and paired with the bar splicers of the concrete wearing surface reinforcement to accommodate the installation of the retainer assemblies. The cost of the additional bar splicers is included with the concrete wearing surface.
 Detail III - Installation for a new deck beam with no initial wearing surface or with an initial hot-mix asphalt (HMA) wearing surface present. The deck beam directly beneath the temporary concrete barrier shall be fabricated with bar splicer inserts in the side of the beam, as detailed, to accommodate the installation of the retainer assemblies. A pair of bar splicers, 6" apart, shall be placed at 6'-0" centers along the length of the beam. The cost of the bar splicers is included with the deck beam.

R-27 8-11-2017



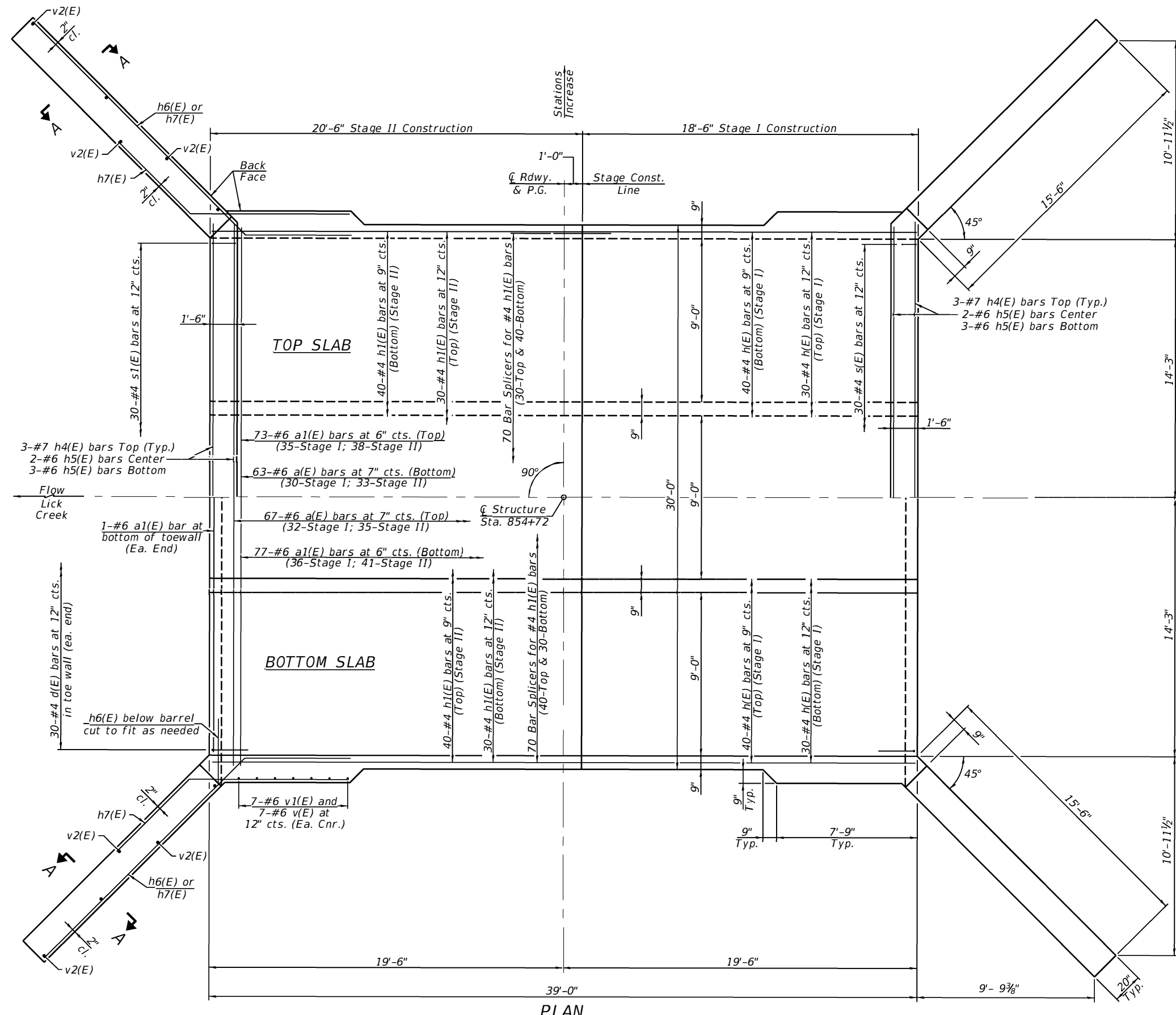
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PLOT DATE =	CHECKED -	REVISD -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

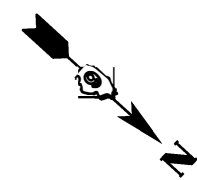
TEMPORARY CONCRETE BARRIER FOR STAGE CONSTRUCTION
STRUCTURE NO. 097-2018

SHEET NO. 4 OF 14 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	2B-3	WHITE	45	25
CONTRACT NO. 78328				
ILLINOIS FED. AID PROJECT				



PLAN



MIN. BAR LAPS

#4 bars = 1'-10"
 #6 bars = 3'-10"

At least 7'-9" of the barrel shall be poured monolithically with the wingwalls. See Sheet 6 of 14 for Section A-A.



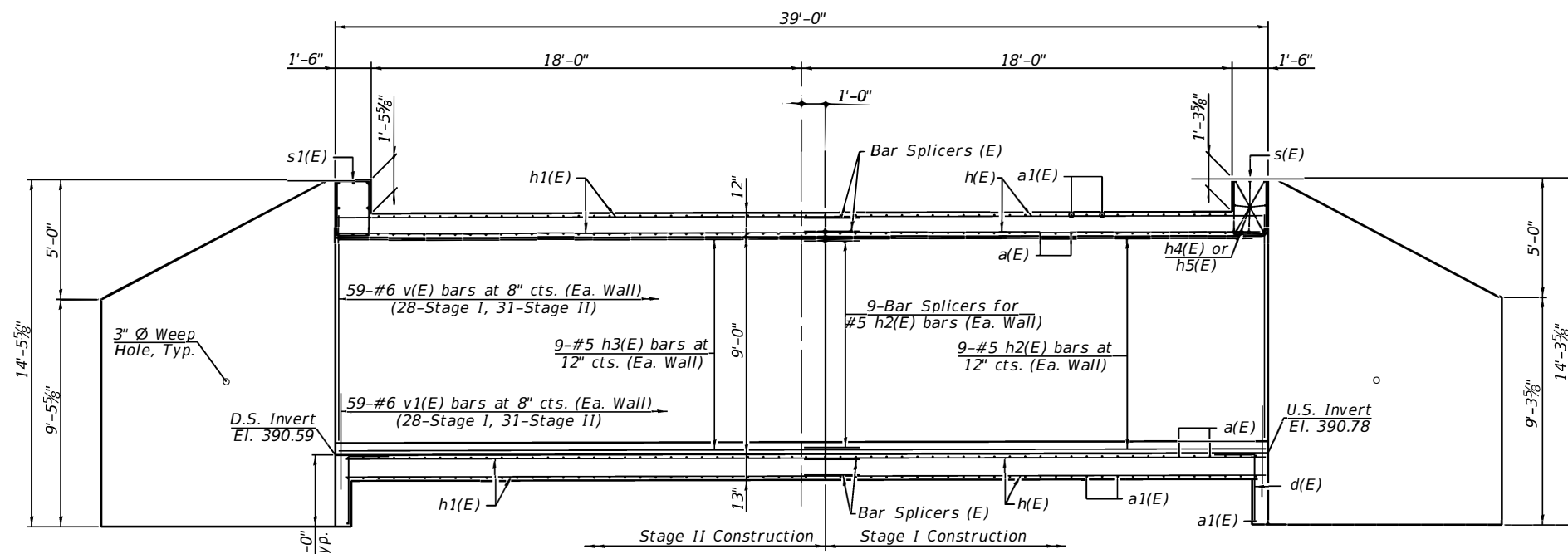
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STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

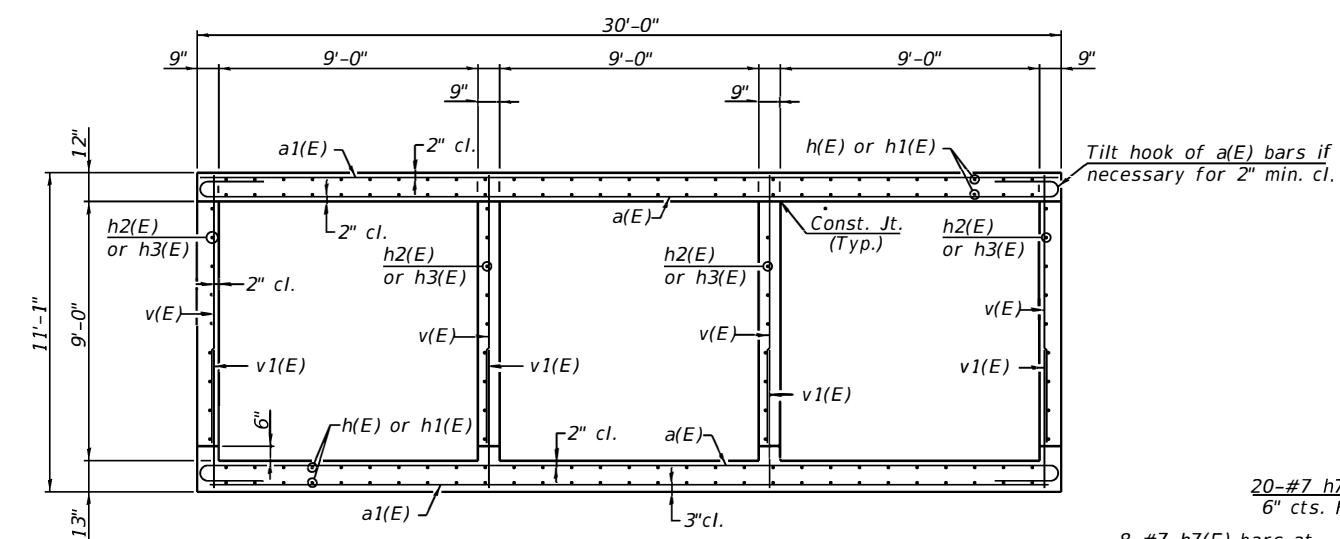
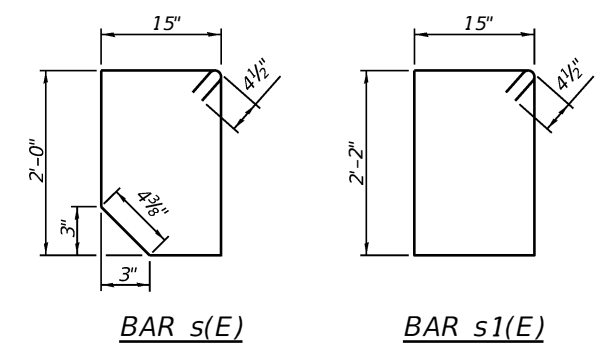
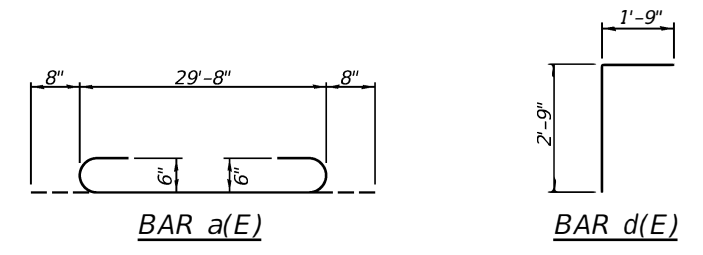
CULVERT PLAN
 STRUCTURE NO. 097-2018

SHEET NO. 5 OF 14 SHEETS

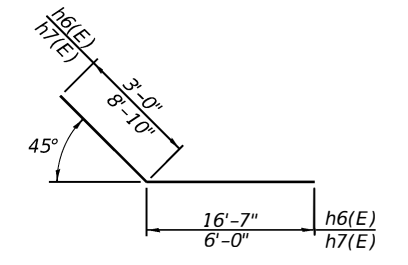
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	2B-3	WHITE	45	26
CONTRACT NO. 78328				
ILLINOIS FED. AID PROJECT				



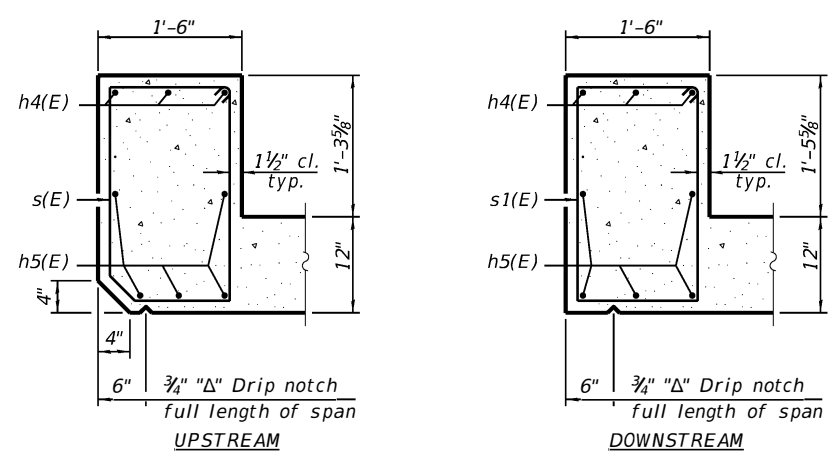
LONGITUDINAL SECTION



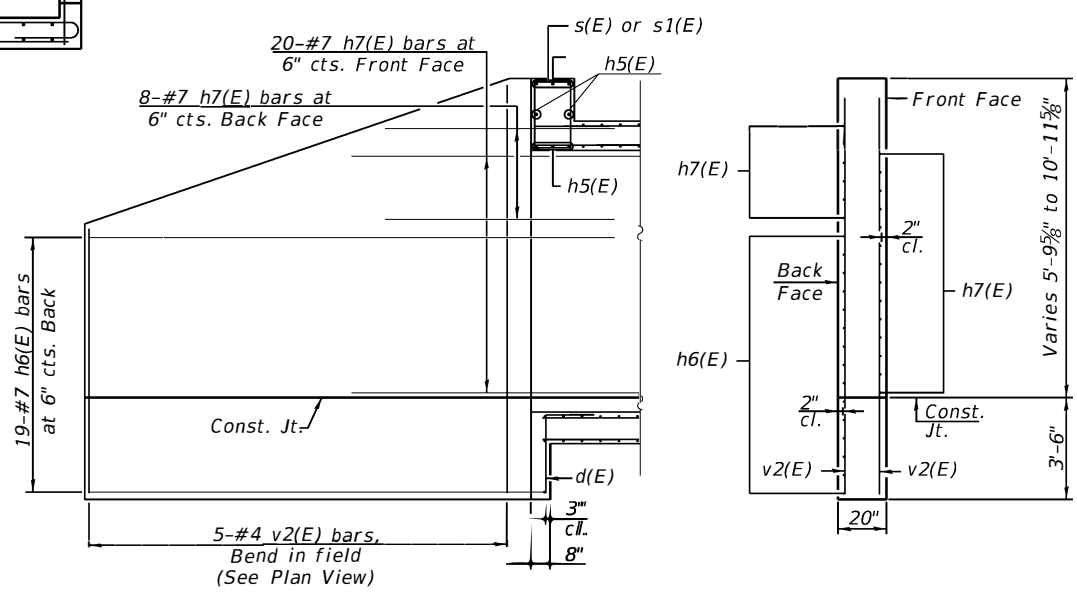
SECTION THRU BARREL



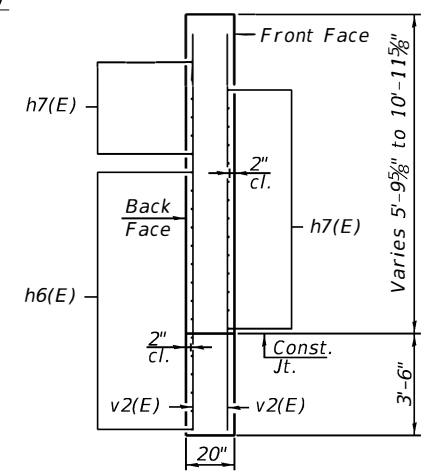
BAR h6(E) & h7(E)



SECTION THRU HEADWALL



ELEVATION



SECTION A-A

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a(E)	130	#6	31'-0"	U
a1(E)	152	#6	29'-8"	—
d(E)	60	#4	4'-6"	L
h(E)	140	#4	18'-4"	—
h1(E)	140	#4	20'-4"	—
h2(E)	36	#5	18'-4"	—
h3(E)	36	#5	20'-4"	—
h4(E)	6	#7	29'-8"	—
h5(E)	10	#6	29'-8"	—
h6(E)	76	#7	19'-7"	—
h7(E)	112	#7	14'-10"	—
s(E)	30	#4	7'-2"	D
s1(E)	30	#4	7'-7"	D
v(E)	264	#6	9'-3"	—
v1(E)	264	#6	5'-5"	—
v2(E)	20	#4	14'-1"	—
Concrete Box Culverts		Cu. Yd.	193.1	
Reinforcement Bars		Pound	31,630	
Bar Splicers		Each	176	



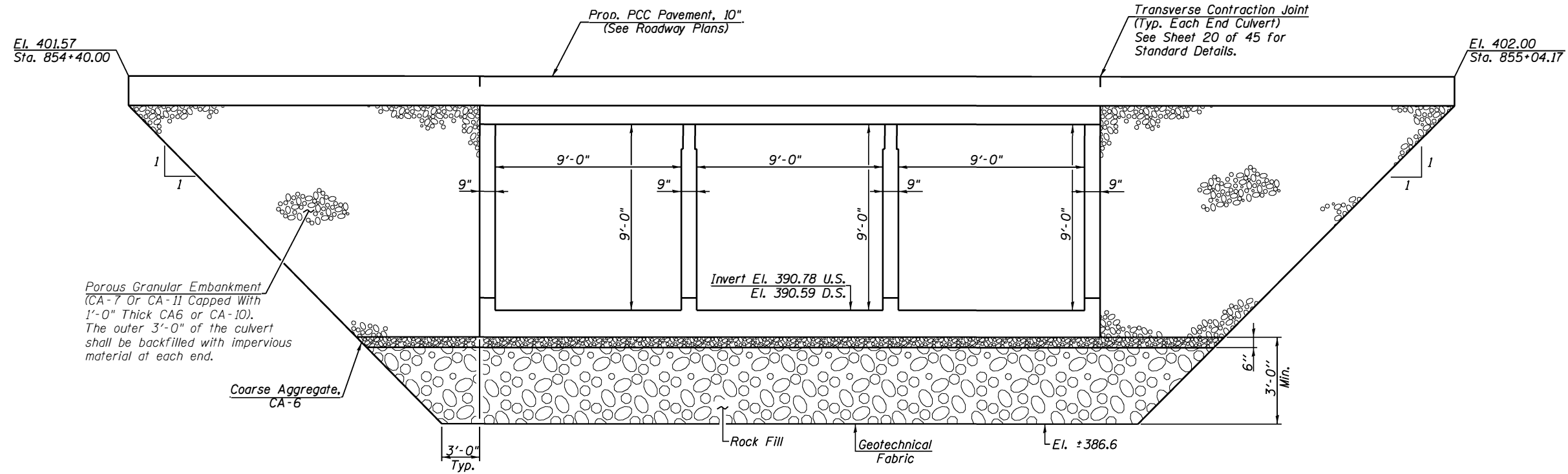
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

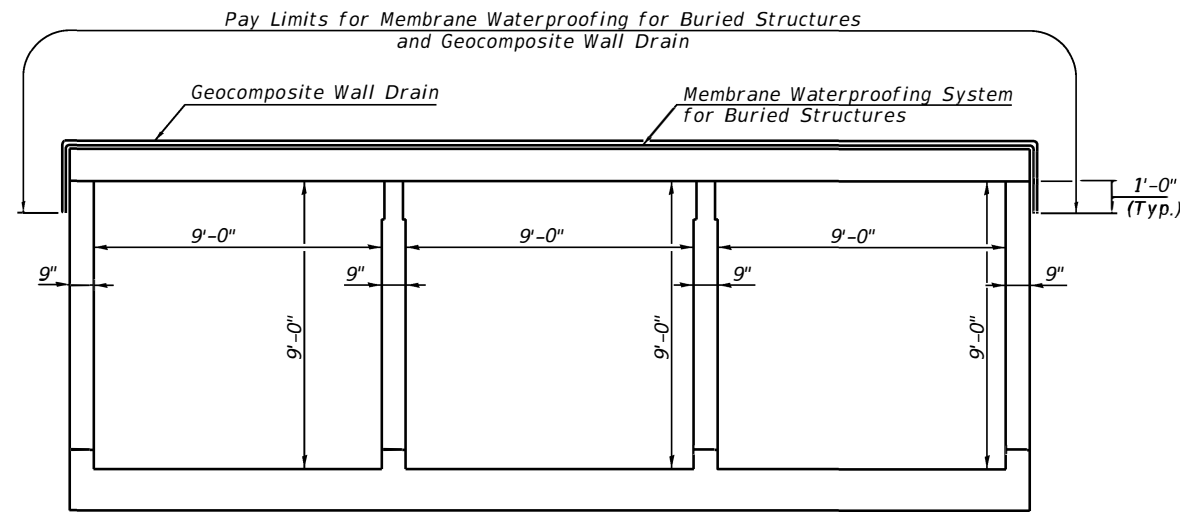
CULVERT DETAILS
STRUCTURE NO. 097-2018

SHEET NO. 6 OF 14 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	2B-3	WHITE	45	27
CONTRACT NO. 78328				
ILLINOIS FED. AID PROJECT				



SECTION THRU CULVERT
(Looking Southeast)



SECTION THRU CULVERT
(Looking Southeast)

NOTES

The limits and quantities of removal and replacement shown are based on the boring data and may be modified by the District Geotechnical and Field Engineers for variable subsurface conditions encountered in the field.

The Rock Fill shall be capped with 6 inches of CA-6 and satisfy the Standard Specifications unless otherwise indicated in the Special Provisions. The cost of capping material shall be included in the pay item for Rock Fill.



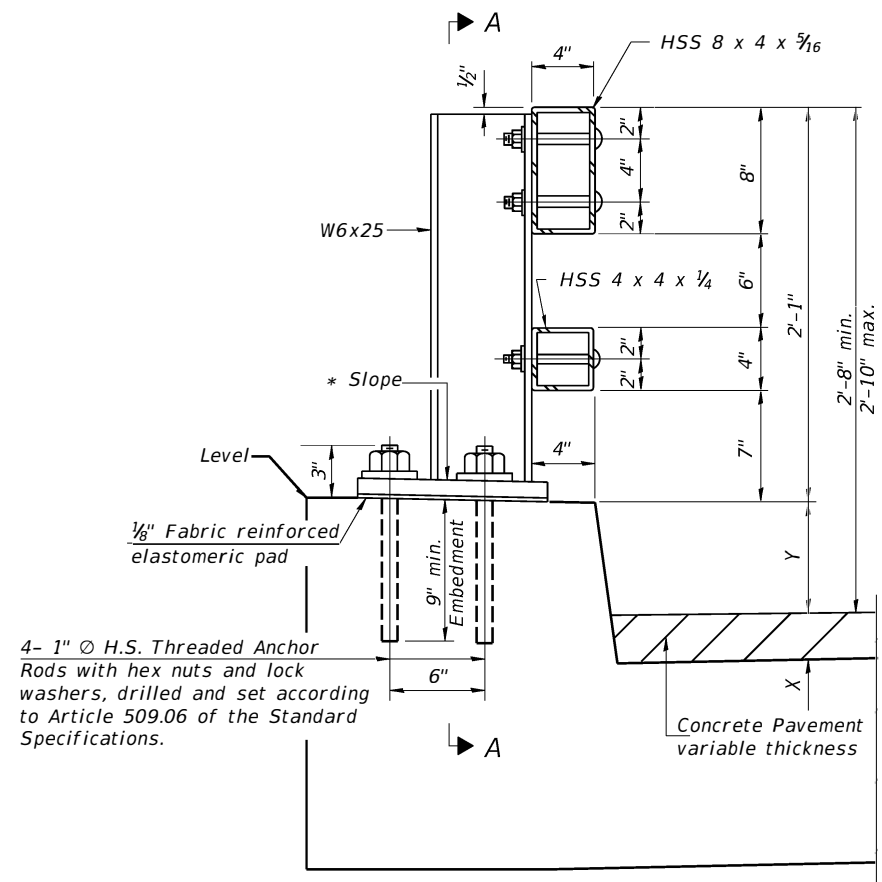
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PLOT DATE =	CHECKED -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CULVERT DETAILS
STRUCTURE NO. 097-2018

SHEET NO. 7 OF 14 SHEETS

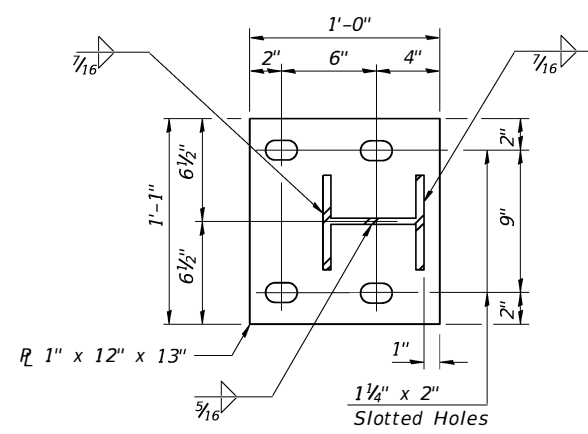
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	2B-3	WHITE	45	28
CONTRACT NO. 78328				
ILLINOIS FED. AID PROJECT				



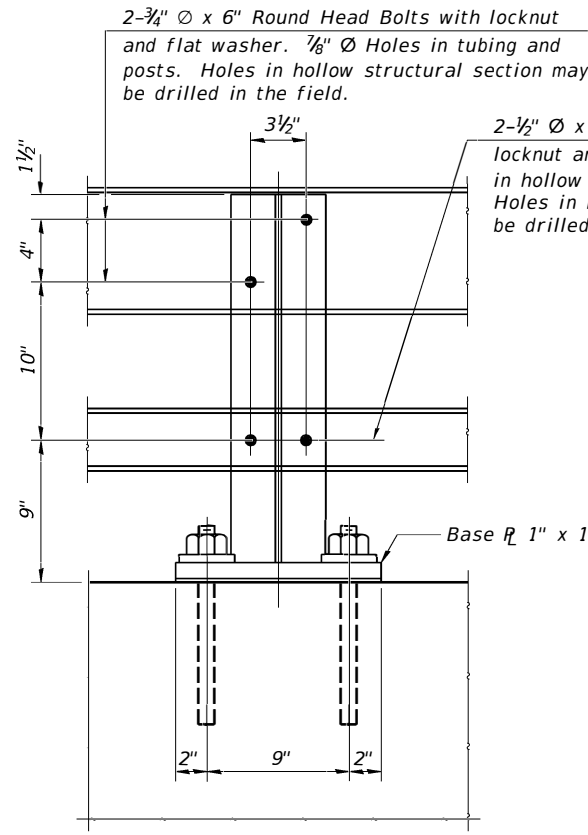
SECTION AT RAIL POST

Curb Height Dimensions

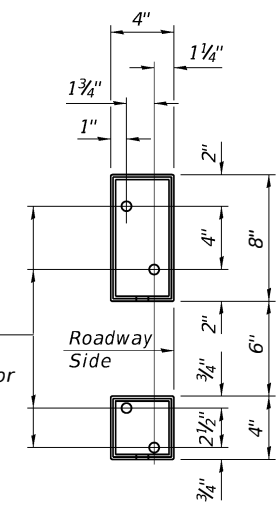
END	Corner	X	Y	Total
Upstream	North	6 5/8"	9"	1'-3 3/8"
	South	8 3/8"	7"	
Downstream	North	8 5/8"	9"	1'-5 3/8"
	South	10 3/8"	7"	



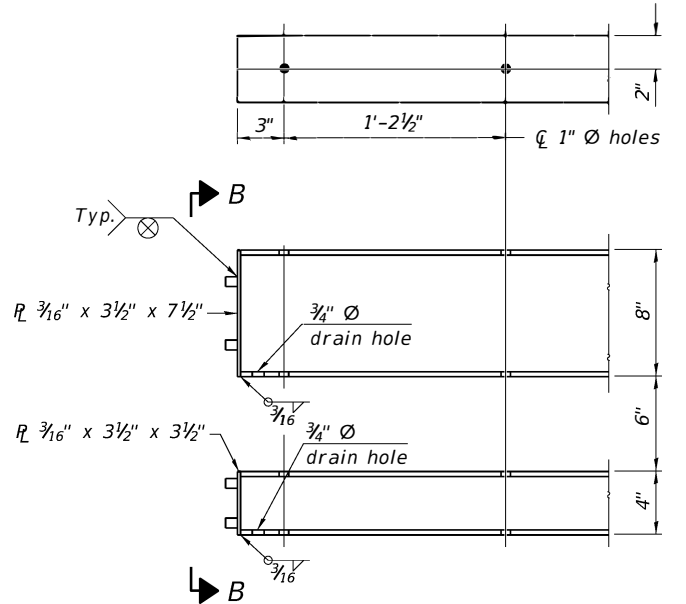
BASE PLATE DETAIL



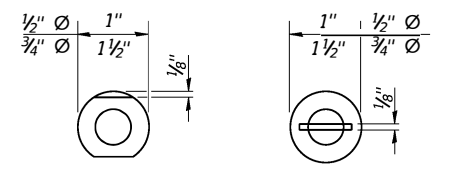
SECTION A-A



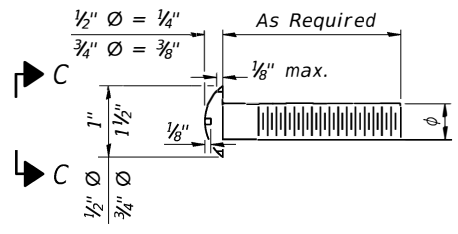
VIEW B-B



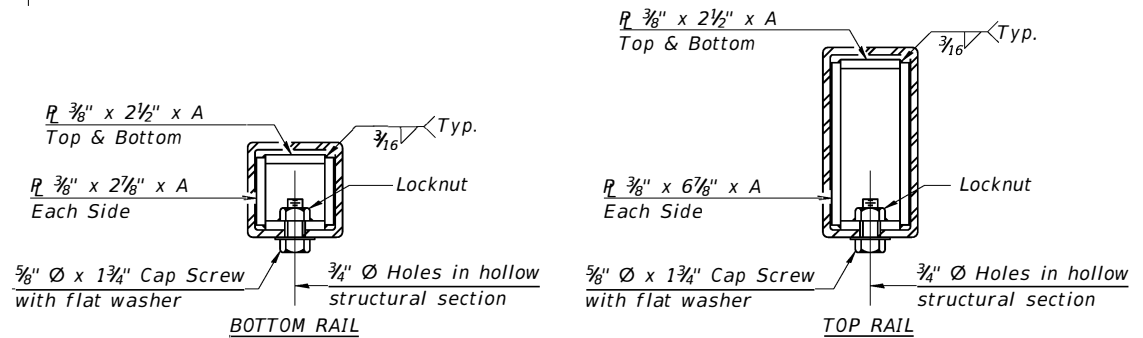
END OF RAIL DETAILS



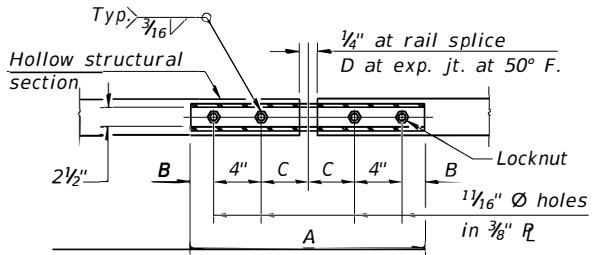
VIEW C-C



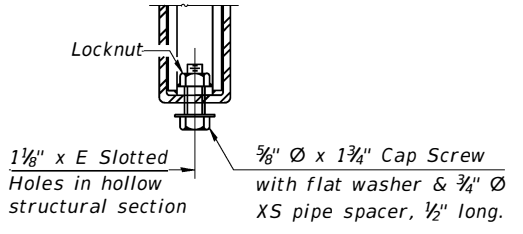
DETAIL OF 1/2" Ø & 3/4" Ø ROUND HEAD BOLTS



SECTIONS AT RAIL SPLICE



PLAN-BOTT. SPLICE R TYPICAL



RAIL SPLICE CONNECTION AT EXPANSION JT.

Notes:
 Posts shall not be located closer than 1'-3" to an existing bridge expansion joint or end of bridge.
 Steel Bridge Rail expansion joint shall be provided between any two (2) posts which span a bridge expansion joint. Bolts located at expansion joint shall be provided with locknuts and shall be tightened only to a point that will allow railing movement.
 Provide one 1/8" and two 1/16" steel shims for 25% of the posts. Shims shall be similar to base plates in size and holes.
 All steel rail elements shall be galvanized according to Article 509.05 of the Standard Specifications.

SPLICE DIMENSIONS

T	D	A	B	C	E
≤ 4"	2 1/2"	1'-8"	2"	4"	2 1/2"
> 4" ≤ 6 1/2"	3 3/4"	2'-0"	2 1/2"	5 1/2"	3 1/2"
> 6 1/2" ≤ 9"	5"	2'-4"	3 1/2"	6 1/2"	9"
> 9" ≤ 13"	7"	2'-10"	4 1/2"	8 1/2"	11"
Rail Splice	1/4"	1'-8"	2"	4"	—

T = Total movement at expansion joint as shown on the design plans.

BILL OF MATERIAL

Item	Unit	Quantity
Steel Railing, Type 2399	Foot	60

R-31

8-11-2017

(6'-3" Maximum Post Spacing)



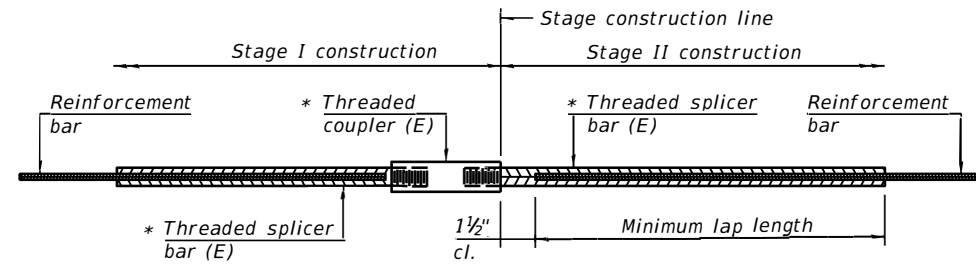
USER NAME =	DESIGNED - MAH	REVISED -
PLOT SCALE =	CHECKED - KES	REVISED -
PLOT DATE =	DRAWN - JRP	REVISED -
	CHECKED - MAH	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

STEEL RAILING, TYPE 2399
 STRUCTURE NO. 097-2018

SHEET NO. 8 OF 14 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	2B-3	WHITE	45	29
CONTRACT NO. 78328				
ILLINOIS FED. AID PROJECT				

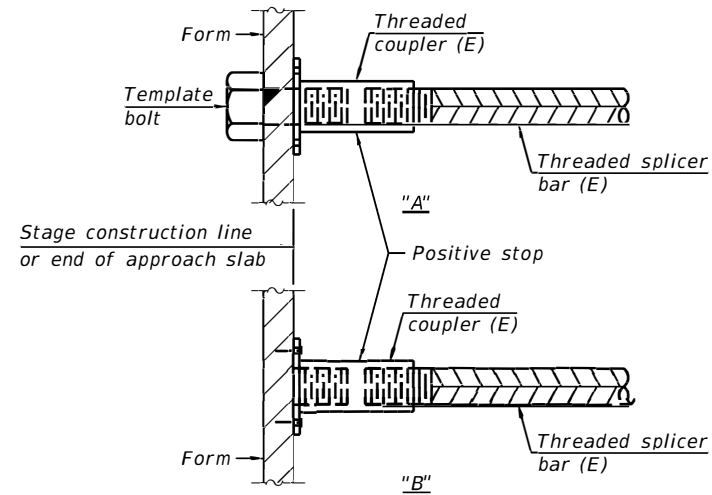


STANDARD BAR SPLICER ASSEMBLY

Threaded splicer bar length = min. lap length + 1 1/2" + thread length

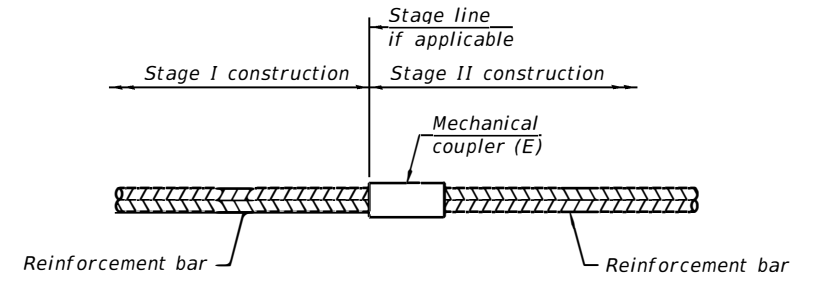
* Epoxy not required on Bar Splicer Assembly components used in conjunction with black bars.

Location	Bar size	No. assemblies required	Minimum lap length
Top Slab	#4	70	2'-7"
Bottom Slab	#4	70	2'-7"
Interior Wall	#5	18	3'-7"
Exterior Wall	#5	18	3'-7"



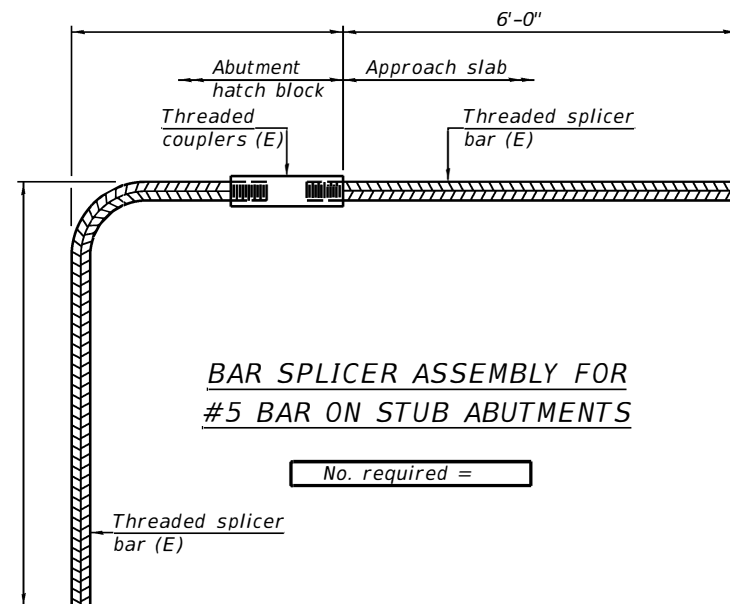
INSTALLATION AND SETTING METHODS

"A" : Set bar splicer assembly by means of a template bolt.
 "B" : Set bar splicer assembly by nailing to wood forms or cementing to steel forms.
 (E) : Indicates epoxy coating.



STANDARD MECHANICAL SPLICER

Location	Bar size	No. assemblies required



BAR SPLICER ASSEMBLY FOR #5 BAR ON STUB ABUTMENTS

NOTES

Splicer bars shall be deformed with threaded ends and have a minimum 60 ksi yield strength.
 All reinforcement shall be lapped and tied to the splicer bars.
 Bar splicer assemblies shall be epoxy coated according to the requirements for reinforcement bars. See Section 508 of the Standard Specifications.
 See approved list of bar splicer assemblies and mechanical splicers for alternatives.

BSD-1

2-17-2017



USER NAME =	DESIGNED - MAH	REVISED -
	CHECKED - KES	REVISED -
PLOT SCALE =	DRAWN - JRP	REVISED -
PLOT DATE =	CHECKED - MAH	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BAR SPLICER ASSEMBLY AND MECHANICAL SPLICER DETAILS
STRUCTURE NO. 097-2018

SHEET NO. 9 OF 14 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	2B-3	WHITE	45	30
CONTRACT NO. 78328				

ILLINOIS FED. AID PROJECT

ILLINOIS DEPARTMENT OF TRANSPORTATION
District Nine Materials

Bridge Foundation
Boring Log

FAP 332 (IL 1) Over Lick Creek
Route: FAP 332 (IL 1) Structure Number: 097-0012 Date: 11/7/2013
Section 2, BY Bored By: R Moberly
County: White Location: 3 Mi S of Brownsville Checked By: R Graeff

Boring No 1-S Station 854+45 Offset 11' LT CL Ground Surface 401.7 Ft	D E P T H	B L O W S	Qu tsf	W%	Surf Wat Elev: 392.6	D E P T H	B L O W S	Qu tsf	W%
					Ground Water Elevation when Drilling 388.7 At Completion At: Hrs:				
9" Asphalt over crushed aggregate					Very stiff, moist, grey, Clay to Clay Loam A7-6		4	2.9B	17
400.2							6		
Stiff, moist, brown, Silty Clay to Clay A7-6		2			374.2		10		
		2	1.1B	20	Hard, damp to dry, grey and brown SiltStone		100/7"		
397.2					Note: Siltsone was very brittle and drilled relatively easy, but yielded high blow counts. Would not likely hold together if cored.				
Soft, very moist, brown mottled grey, Silty Clay Loam A-6	5.0	1	0.4B	21		30.0	100/4"		
394.7									
Stiff, moist, grey, Sandy Clay Loam A-4 with Sand seams		1	1.1S	23					
392.2									
Soft, very moist, grey, Silty Clay Loam A-4	10.0	WH	0.3B	30	Hard, dry, grey, Clay Shale	35.0	100/4"		
389.7									
Very soft, very moist, grey, Silty Clay Loam A-6 with rotten wood		WH	0.2B	29			100/4"		
387.2									
Very stiff, moist, brown mottled grey, Clay A7-6	15.0	1	2.1B	19	Bottom of hole = 37.3 feet	40.0			
		2			Free water observed at 13.0 feet				
		3			Elevation referenced to BM at SW wingwall; Elev.= 401.9 feet				
		1			Borehole advanced with hollow stem auger (8" O.D, 3.25" I.D.)				
382.2					To convert "N" values to "N60" multiply by 1.25	45.0			
Medium, very moist, brown, Clay to Clay Loam A-6 with Sand layers	20.0	2	0.8S	16					
379.7									
Medium to stiff, moist to very moist, grey, Silt to Silt Loam with Sand layers		2	1.0S	27					
377.2									
	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)

ILLINOIS DEPARTMENT OF TRANSPORTATION
District Nine Materials

Bridge Foundation
Boring Log

FAP 332 (IL 1) Over Lick Creek
Route: FAP 332 (IL 1) Structure Number: 097-0012 Date: 11/7/2013
Section 2, BY Bored By: R Moberly
County: White Location: 3 Mi S of Brownsville Checked By: R Graeff

Boring No 2-S Station 855+03 Offset 10' Rt CL Ground Surface 402.0 Ft	D E P T H	B L O W S	Qu tsf	W%	Surf Wat Elev: 392.6	D E P T H	B L O W S	Qu tsf	W%
					Ground Water Elevation when Drilling 380.1 At Completion At: Hrs:				
6" Asphalt over 9.5" Concrete					Soft, very moist, grey, Sandy Clay Loam A-4 with Sand layers		5	0.3S	17
400.5							4		
Stiff, moist, brown mottled grey, Clay to Silty Clay A7-6		1			375.0		1		
		2	1.1B	23	Stiff, moist, grey, Sandy Clay Loam to Clay Loam A-6		2	1.2B	18
397.2							7		
Soft, very moist, brown mottled grey, Silty Clay Loam A-6	5.0	1	1.2B	29	Hard, dry, grey, Siltstone	372.5			
394.7									
Stiff, moist, grey, Sandy Clay Loam A-4 with Sand seams		1	0.8B	19	Bottom of hole = 29.8 feet				
392.2					Free water observed at 22.0 feet				
Very stiff, moist, brown mottled grey, Clay A7-6	10.0	1	2.1B	19	Elevation referenced to BM at SW wingwall; Elev.= 401.9 feet	35.0			
390.0					Borehole advanced with hollow stem auger (8" O.D, 3.25" I.D.)				
Stiff to Medium, moist, grey mottled brown, Clay to Clay Loam A-6		1	1.6B	20	To convert "N" values to "N60" multiply by 1.25				
387.2									
Very stiff, moist, brown mottled grey, Clay A7-6	15.0	1	1.0B	20		40.0			
		2							
		1	1.0B	20					
382.5									
Very stiff, moist, brown Clay to Clay Loam A7-6	20.0	2	2.9B	15		45.0			
380.0									
Very stiff, moist, grey and brown, Clay Loam A-6 with Sand layers		5	2.3S	13					
377.5									
	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)



USER NAME =	DESIGNED - MAH	REVISED -
CHECKED - KES	REVISOR -	
PLOT SCALE =	DRAWN - JRP	REVISED -
PLOT DATE =	CHECKED - MAH	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BORING LOGS
STRUCTURE NO. 097-2018

SHEET NO. 10 OF 14 SHEETS

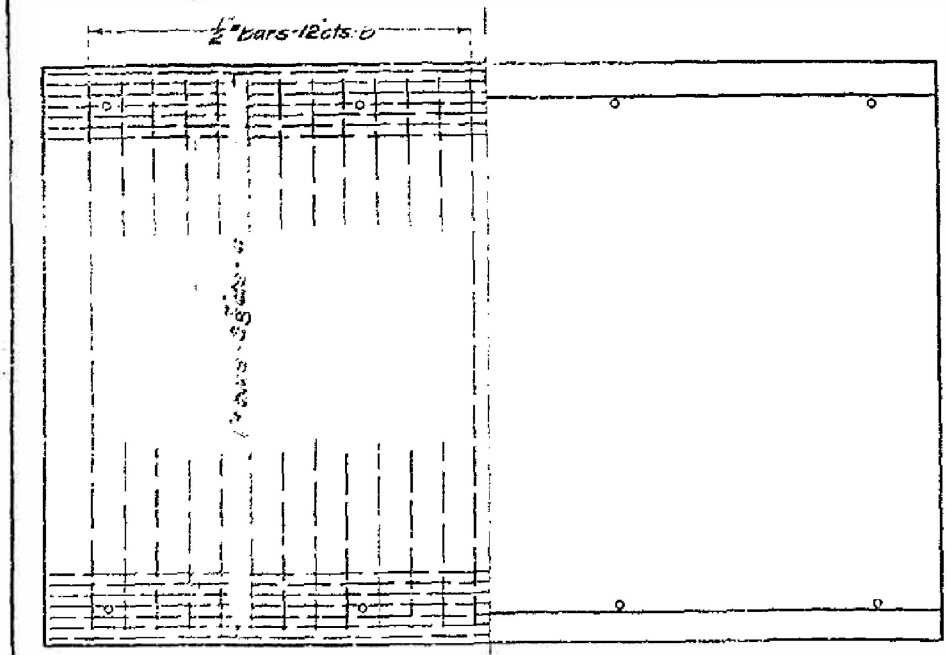
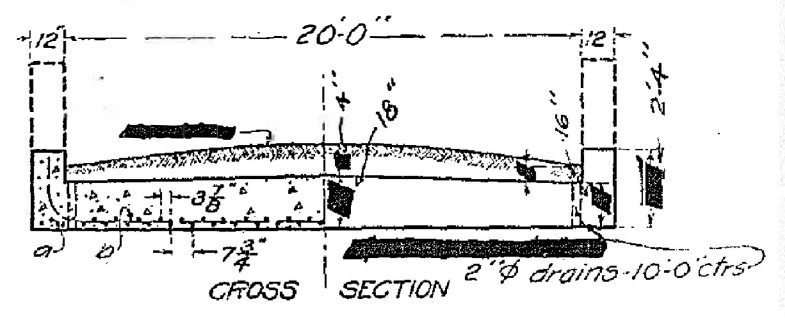
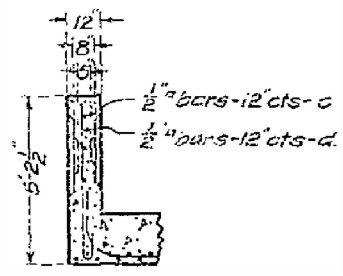
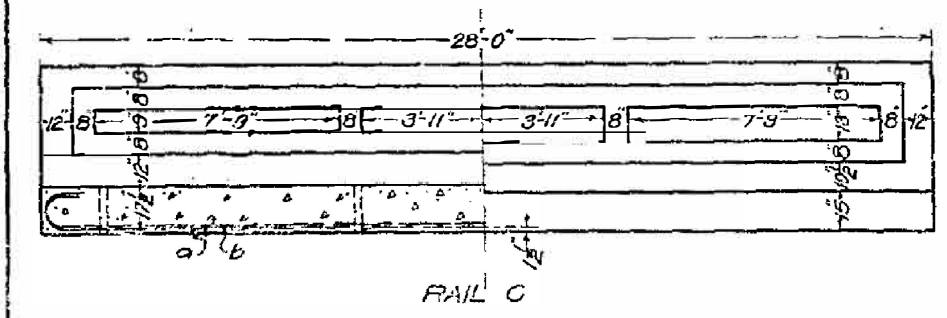
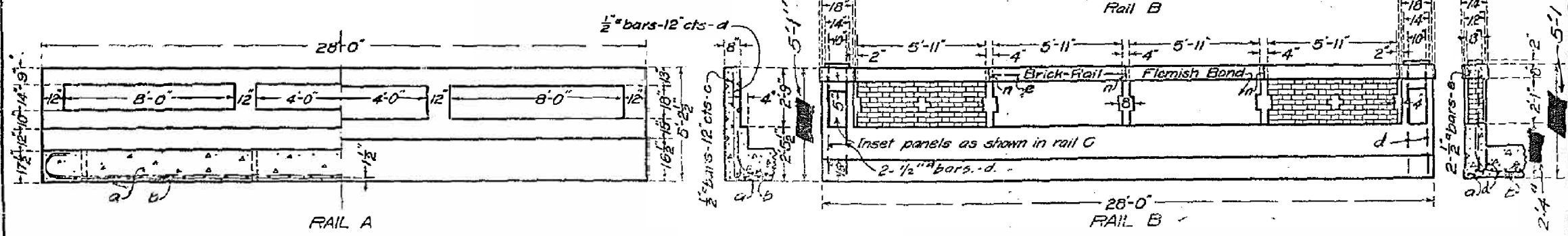
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	2B-3	WHITE	45	31
CONTRACT NO. 78328				
ILLINOIS FED. AID PROJECT				

BOND ISSUE ROUTE NO.	COUNTY	SEC.	TOTAL SHEETS	SHEET NO.
1	WHITE	2B	32	31

STATE OF ILLINOIS
STATE HIGHWAY DEPARTMENT
REINFORCED CONCRETE SLAB
SPAN, TWENTY-SIX FEET.



SHEET NO. 1
2 sheets



BILL OF MATERIAL

	16 Ft. ROADWAY			18 Ft. ROADWAY			20 Ft. ROADWAY			24 Ft. ROADWAY			30 Ft. ROADWAY		
	Bars	No.	Length	Bars	No.	Length	Bars	No.	Length	Bars	No.	Length	Bars	No.	Length
RAIL A	a	56	30'-0"	a	62	30'-0"	a	68	30'-0"	a	80	30'-0"	a	99	30'-0"
	b	26	20'-0"	b	26	22'-0"	b	26	24'-0"	b	26	28'-0"	b	52	18'-0"
	c	6	27'-6"	c	6	27'-6"	c	6	27'-6"	c	6	27'-6"	c	6	27'-6"
	d	52	5'-6"	d	52	5'-6"	d	52	5'-6"	d	52	5'-6"	d	52	5'-6"
	Steel-Lbs.	6540		7190		7850		9160		11280		11280		11280	
	Concrete-Cu.Yds.	34.5		37.7		40.9		47.3		56.9		56.9		56.9	
RAIL B	a	56	30'-0"	a	62	30'-0"	a	68	30'-0"	a	80	30'-0"	a	99	30'-0"
	b	26	20'-0"	b	26	22'-0"	b	26	24'-0"	b	26	28'-0"	b	52	18'-0"
	c	6	27'-6"	c	6	27'-6"	c	6	27'-6"	c	6	27'-6"	c	6	27'-6"
	d	52	5'-6"	d	52	5'-6"	d	52	5'-6"	d	52	5'-6"	d	52	5'-6"
	Steel-Lbs.	6250		6900		7600		8870		10990		10990		10990	
	Concrete-Cu.Yds.	32.6		35.7		38.8		45.3		54.9		54.9		54.9	
	Brick Rail-Cu.Yds.	2.4		2.4		2.4		2.4		2.4		2.4		2.4	
RAIL C	a	56	30'-0"	a	62	30'-0"	a	68	30'-0"	a	80	30'-0"	a	99	30'-0"
	b	26	20'-0"	b	26	22'-0"	b	26	24'-0"	b	26	28'-0"	b	52	18'-0"
	c	6	27'-6"	c	6	27'-6"	c	6	27'-6"	c	6	27'-6"	c	6	27'-6"
	d	52	5'-6"	d	52	5'-6"	d	52	5'-6"	d	52	5'-6"	d	52	5'-6"
	Steel-Lbs.	6540		7190		7850		9160		11280		11280		11280	
	Concrete-Cu.Yds.	34.5		37.7		40.9		47.3		56.9		56.9		56.9	

USE RAIL B, 20 FOOT ROADWAY

STATION 434+60

STATE BOND ISSUE-ROUTE-1
SECTION-2B WHITE COUNTY

Class A concrete to be used throughout
Proportions 1-24-4.

STANDARD CHECKED BY: [Signature]
SPECIAL CHECKED BY: [Signature]

EXAMINED BY: [Signature] PASSED
APPROVED BY: [Signature] ENGINEER OF DESIGN
DATE HIGHWAY ENGINEER: [Signature]



USER NAME =	DESIGNED - MAH	REVISED -
PLOT SCALE =	CHECKED - KES	REVISED -
PLOT DATE =	DRAWN - JRP	REVISED -
	CHECKED - MAH	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING STRUCTURE PLANS
STRUCTURE NO. 097-2018
SHEET NO. 11 OF 14 SHEETS

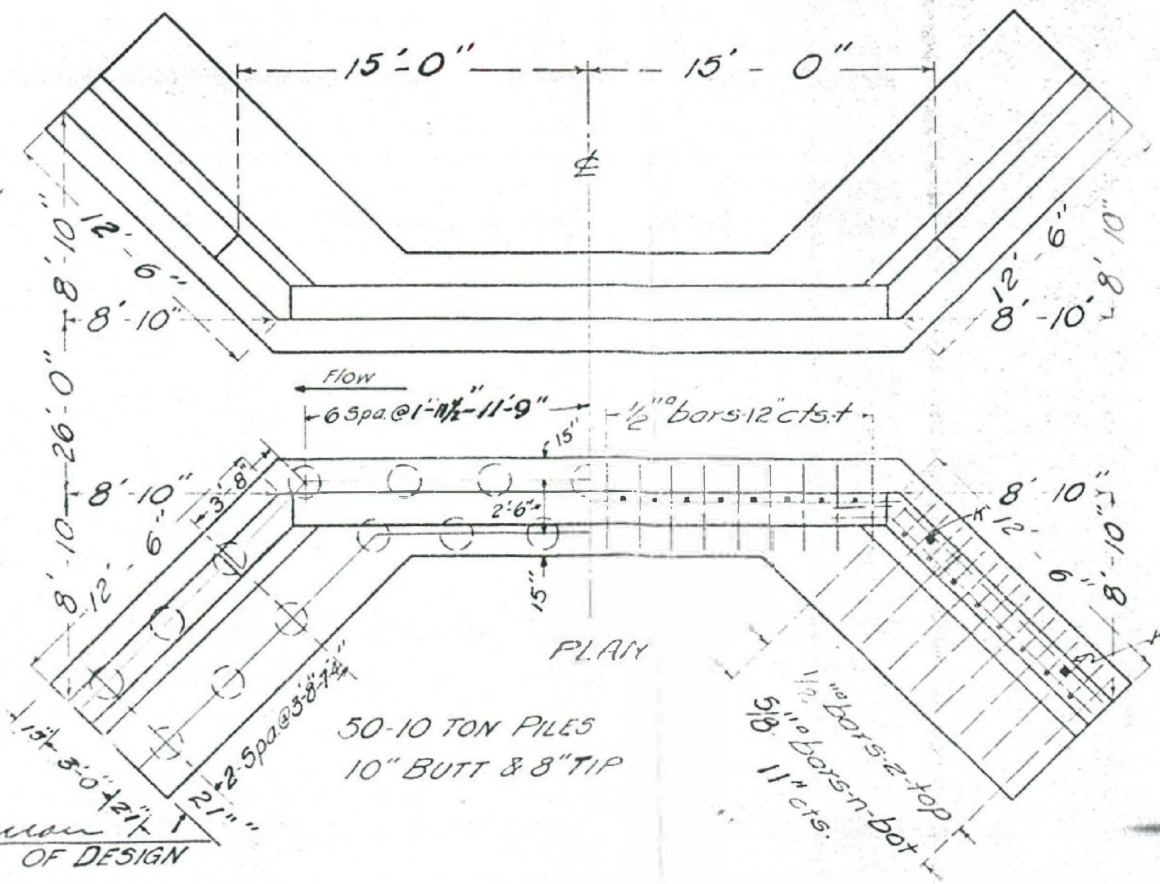
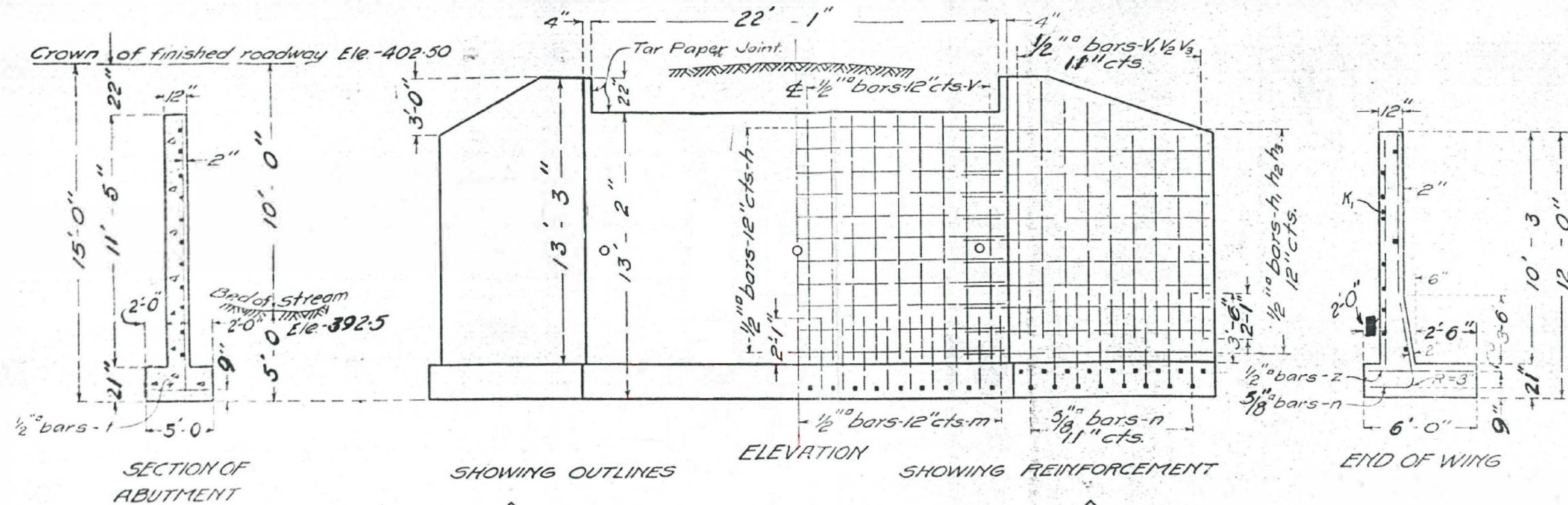
F.A.P. RTE. 332	SECTION 2B-3	COUNTY WHITE	TOTAL SHEETS 45	SHEET NO. 32
CONTRACT NO. 78328				
ILLINOIS FED. AID PROJECT				

B.M. - SEE ROAD PLANS
 No Existing Structure.

STATE OF ILLINOIS
 STATE HIGHWAY DEPARTMENT
 R. C. ABUTMENTS FOR SLAB BRIDGE
 HEIGHT OVER ALL 15 FT.

BOND ISSUE ROUTE NO.	COUNTY	SEC.	TOTAL SHEETS	SHEET NO.
1	WHITE	2B	32	31

Sheet No. 2
 2 sheets
 31



BILL OF MATERIAL

Bars	No.	Size	Length
V	46	1/2"	11'-0"
V ₁	28	1/2"	11'-0"
V ₂	12	1/2"	9'-6"
V ₃	12	1/2"	8'-6"
h	24	1/2"	22'-0"
h ₁	44	1/2"	14'-0"
h ₂	4	1/2"	13'-0"
K	4	1/2"	12'-6"
m	46	1/2"	13'-0"
n	52	5/8"	7'-6"
f	40	1/2"	4'-9"
n ₁	4	1/2"	10'-0"
z	52	1/2"	5'-9"
Steel - lbs.	3070		
Concrete Cu Yds	76.0		

Class A concrete to be used throughout. Proportions 1:2 1/2:4

STATION 434+60
 STATE BOND ISSUE - ROUTE-1
 SECTION-2-WHITE COUNTY

STANDARD
 COMPUTED
 CHECKED
 DRAWN
 CHECKED
 ASSEMBLED
 SPECIAL
 CHECKED

PASSED
 ENGINEER OF DESIGN



USER NAME =	DESIGNED - MAH	REVISED -
PLOT SCALE =	CHECKED - KES	REVISED -
PLOT DATE =	DRAWN - JRP	REVISED -
	CHECKED - MAH	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

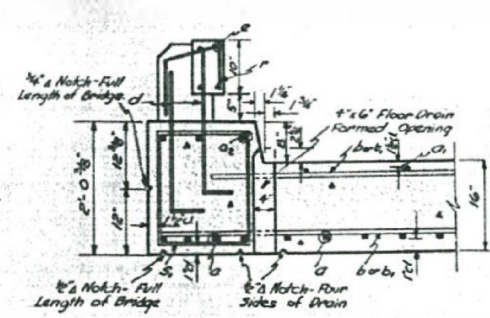
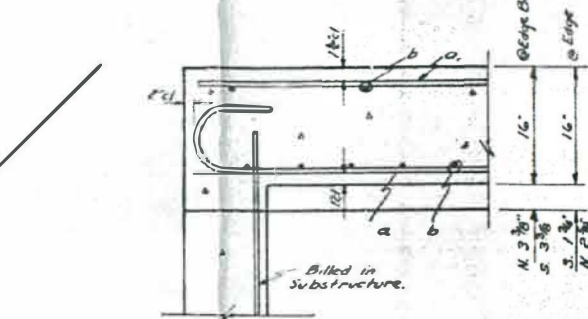
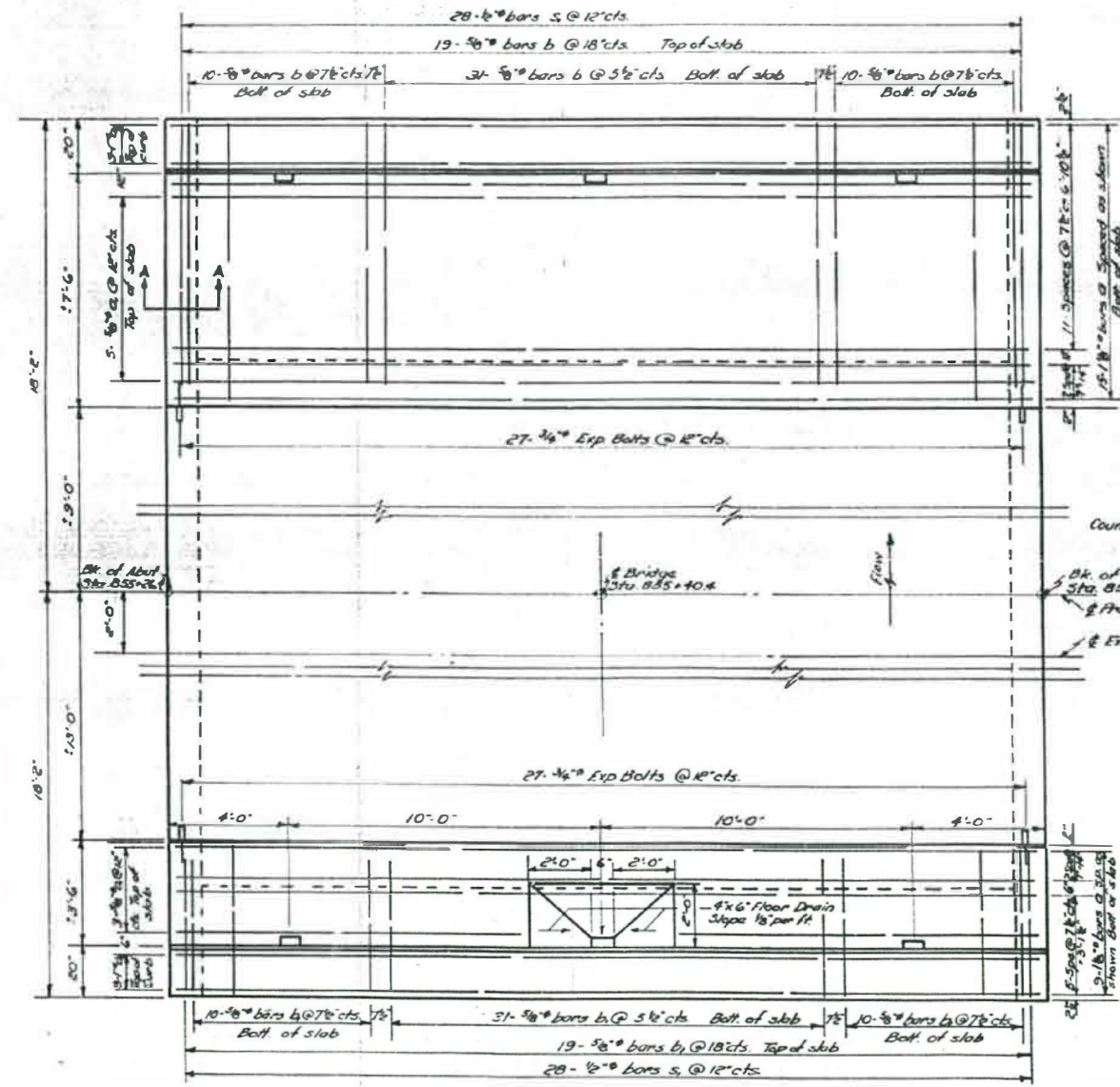
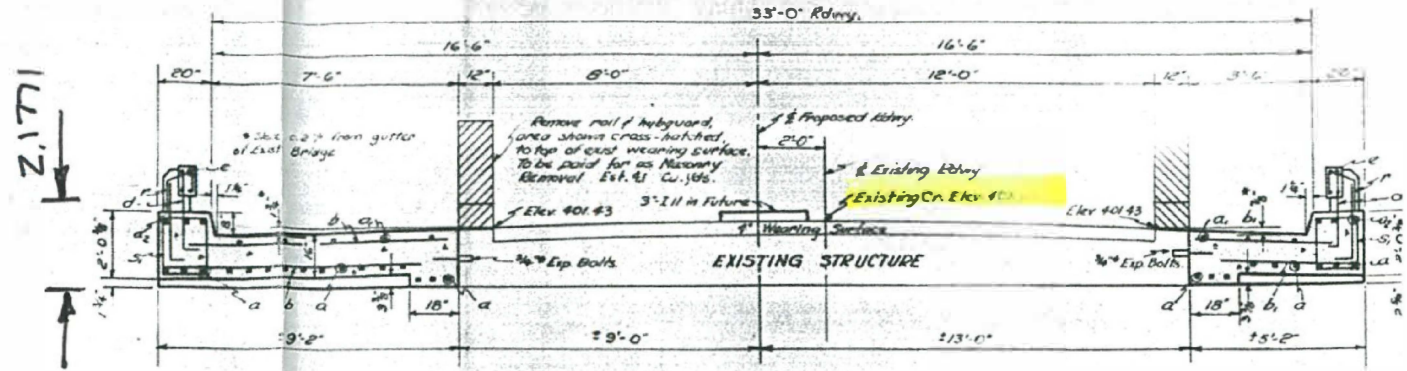
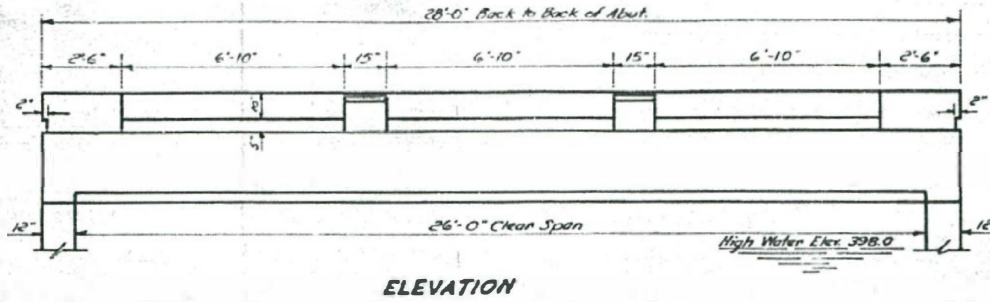
EXISTING STRUCTURE PLANS
 STRUCTURE NO. 097-2018
 SHEET NO. 12 OF 14 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	2B-3	WHITE	45	33
CONTRACT NO. 78328				
ILLINOIS FED. AID PROJECT				

B.M. - 4 Top Corner South Wing, S.E. corner
 R.R. Bridge. Et. Sta. 855+51 Elev 398.56
 Existing Structure - Remain in Place except
 portions shown on plans.

STATE OF ILLINOIS
 DEPARTMENT OF PUBLIC WORKS & BUILDINGS
 DIVISION OF HIGHWAYS

DATE	BY	CHKD	APP'D
1	237	11/11/11	23
JOB NO. 097-2018		SHEET NO. 13 OF 14	



STATIC
 BUILT I
 STATE O
 S.B.I. RT. I
 F.A. PR
 LOAD II

LETTERING FC

BILL OF A

BAR	NO
a	24
a ₁	8
a ₂	6
b	70
b ₁	70
s	56
r	16
c	8
d	36

Class x Concrete
 Handrail Concr.
 Reinforcement
 Expansion Bolt
 Masonry Remov.
 Name Plate

TOTAL BILL OF

ITEM	QUANTITY	SUB	TOTAL
Class x Concrete	Cu. Yds.	233	85.1
Handrail Concrete	Cu. Yds.	12	1.2
Reinforcement Bars	Lbs	5420	5850
Expansion Bolts	Ea.	54	150
Masonry Removal	Cu. Yds.	41	1.7
Name Plate	Ea.	1	1
Class A Exc. for Struct.	Cu. Yds.	164	164
Class B Exc. for Struct.	Cu. Yds.	197	197

WATERWAY INFORMATION

Drainage Area Character
 Present Opening
 Proposed Opening

1920 acres
 cby. rolling, wooded & cultivated
 100 sq. ft.
 156 sq. ft.

GENERAL NOTES

Class x Concrete shall be used thru out except as noted.

Handrail Concrete shall be used in posts & rails.

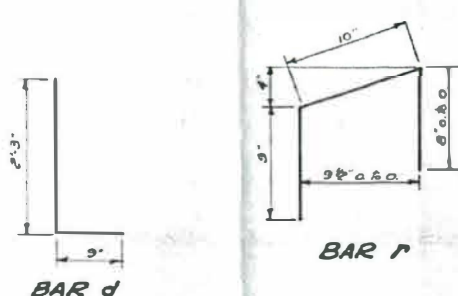
The concrete floor slabs shall be finished in accordance with Art. 613 of the Std. Specs.

The concrete floor slab on each side of the Exist. Structure shall be poured in one continuous operation.

The curbs shall be poured monolithically with the slab.

The handrail shall not be poured until after the falsework has been removed.

The contract unit price each for Expansion Bolts shall include drilling holes and setting Expansion Bolts.



STRESSES

f_s = 20,000 psi
 f_c = 1200 psi Super
 f_c = 800 psi Sub
 n = 10 N-20 #4 Loading

DESIGNED Seymour C. Zimmerman
 CHECKED Carl E. Thurman
 DRAWN S.C. Zimmerman
 CHECKED Carl E. Thurman

EXAMINED
 PASSED
 APPROVED

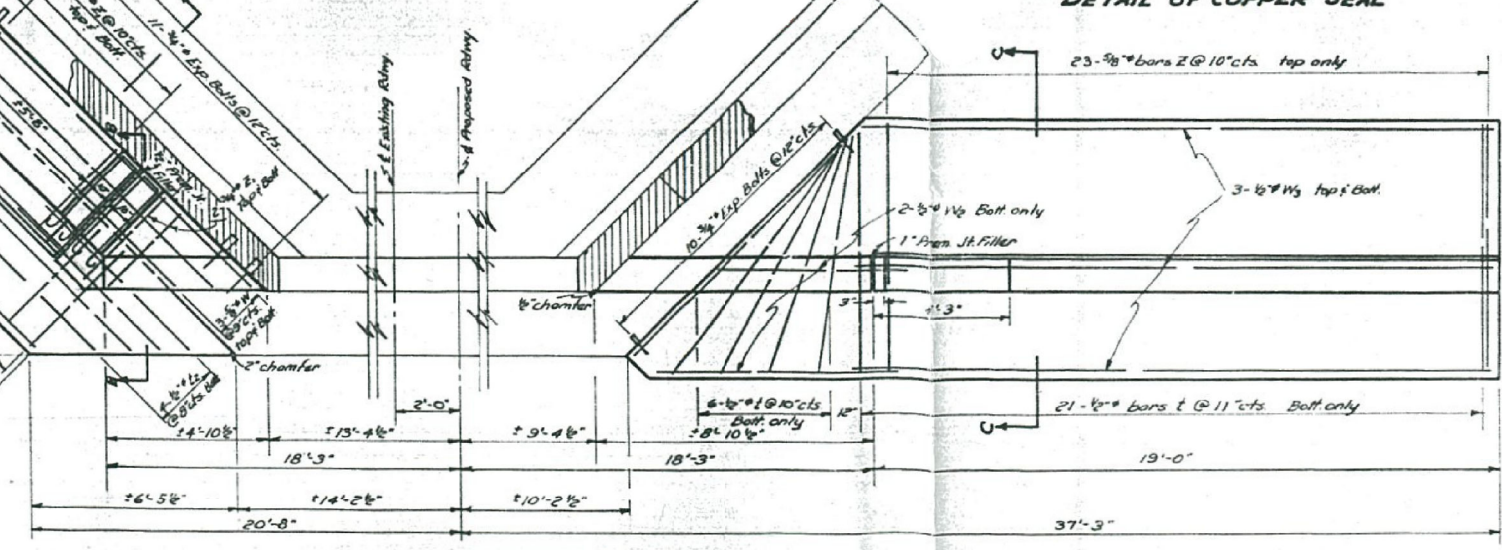
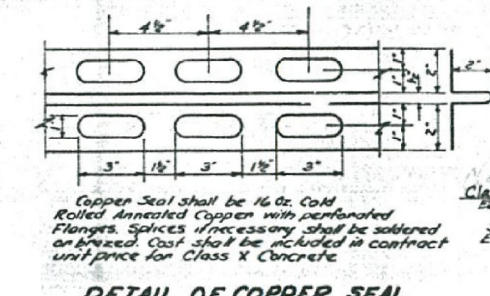
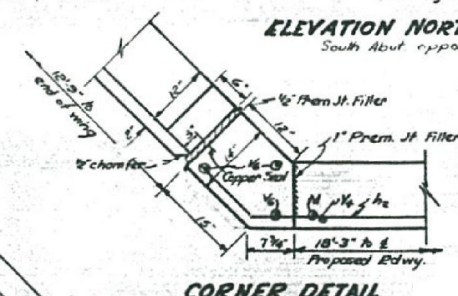
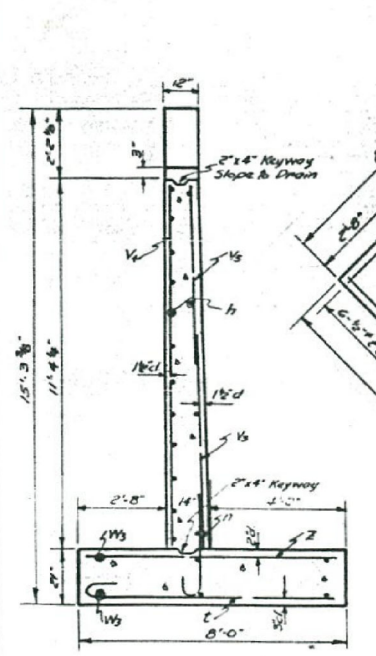
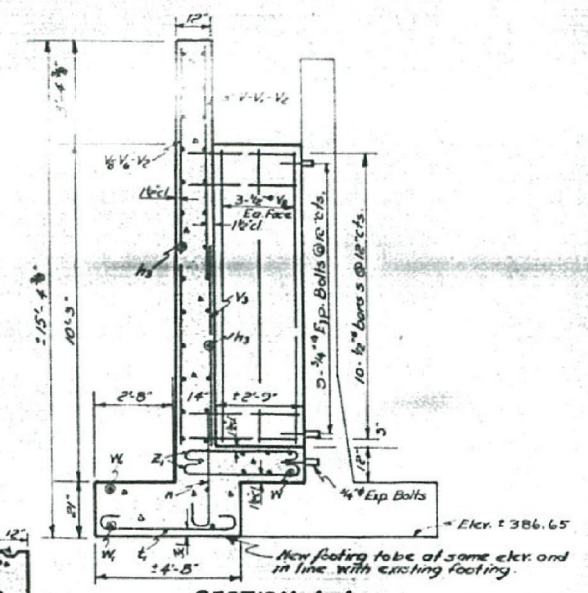
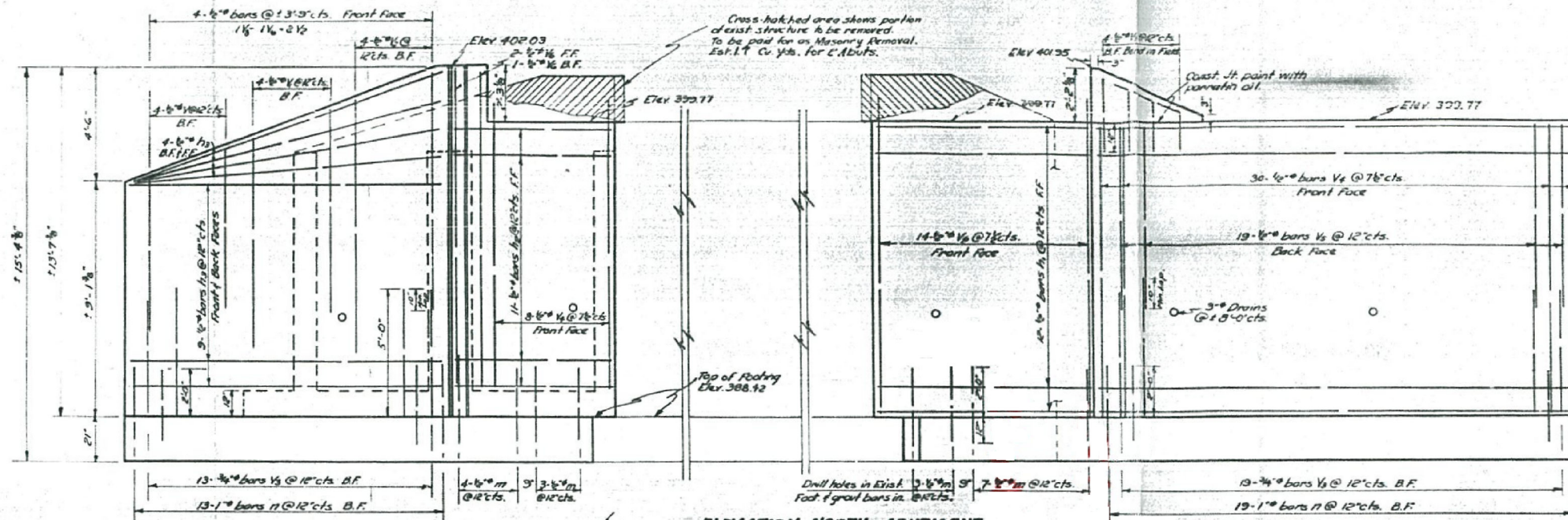


USER NAME =	DESIGNED - MAH	REVISED -
PLOT SCALE =	CHECKED - KES	REVISED -
PLOT DATE =	DRAWN - JRP	REVISED -
	CHECKED - MAH	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

EXISTING STRUCTURE PLANS
 STRUCTURE NO. 097-2018
 SHEET NO. 13 OF 14 SHEETS

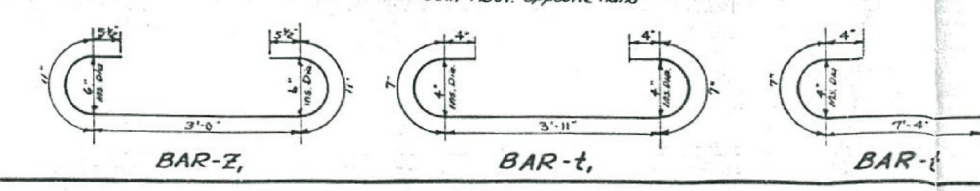
F.A.P. RTE. 332	SECTION 2B-3	COUNTY WHITE	TOTAL SHEETS 45	SHEET NO. 34
CONTRACT NO. 78328				
ILLINOIS FED. AID PROJECT				



BILL OF MATERIAL SUB.

BAR	NO.	SIZE	LENGTH	SHAPE
V	8	1/2"	6'-3"	—
V1	8	1/2"	8'-0"	—
V2	12	1/2"	10'-0"	—
V3	64	1/2"	5'-0"	—
V4	76	1/2"	11'-3"	—
V5	38	1/2"	7'-0"	—
V6	36	1/2"	12'-6"	—
V7	8	1/2"	3'-0"	—
V8	38	1/2"	9'-0"	—
h	32	1/2"	18'-6"	—
h1	24	1/2"	8'-0"	—
h2	22	1/2"	6'-0"	—
h3	52	1/2"	12'-3"	—
m	34	1/2"	3'-0"	—
n	64	1"	4'-9"	C
W	12	3/8"	12'-0"	—
W1	8	1/2"	14'-0"	—
W2	8	1/2"	5'-6"	—
W3	12	1/2"	13'-3"	—
Z	60	3/8"	7'-6"	—
Z1	36	3/8"	5'-9"	—
t	66	1/2"	8'-3"	C
t1	20	1/2"	5'-9"	—
t2	8	1/2"	6'-0"	—
S	60	1/2"	8'-3"	C

Class X Concrete	Cu Yds	85.1
Reinforcement Bars	Lbs.	5850
Expansion Bolts	Ea.	96
Masonry Removal	Cu Yds	1.7
Class A Exc. For Structures	Cu Yds	164
Class B Exc. For Structures	Cu Yds	197



DESIGNED: Seymour J. Zimwara
CHECKED: Carl E. Thurman
DRAWN: S.C. Zimwara
CHECKED: Carl E. Thurman

EXAMINED: [Signature]
PASSED: [Signature]
APPROVED: E.M. Holloway

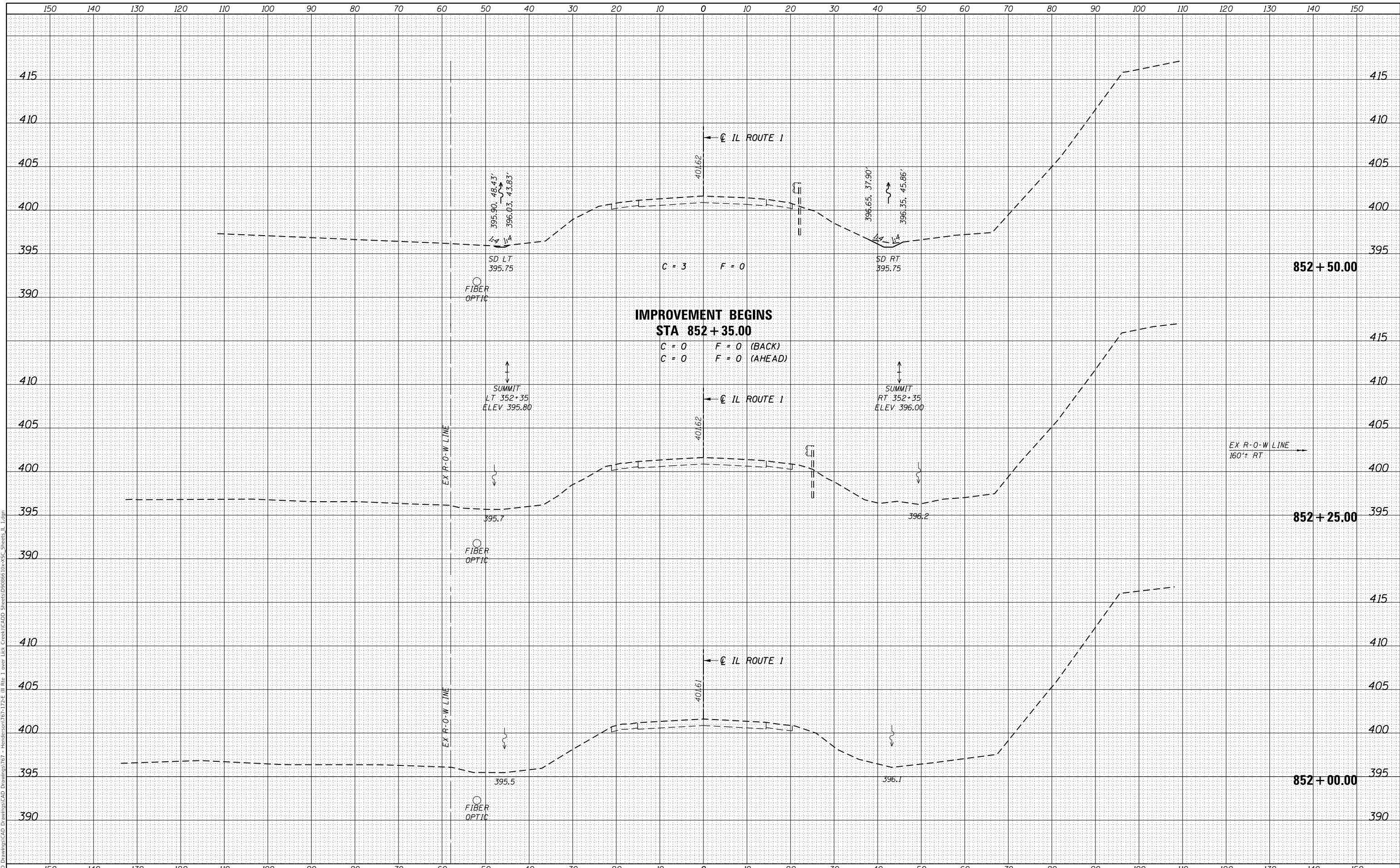
Note: No piles used in existing structure.

PROJ. NO. F-103 (12)
S.B.I. R.I. F-103 (12)
SECTION 2-B-Y
WHITE COUNTY
STA. 855+40.4

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

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

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	DRAWN - J.E.B.	REVISED -
PLOT SCALE = 20.0000' / in.	CHECKED - R.H.D.	REVISED -
PLOT DATE = 9/29/2020	DATE - 09/29/2020	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

CROSS SECTIONS - ILLINOIS ROUTE 1 OVER LICK CREEK

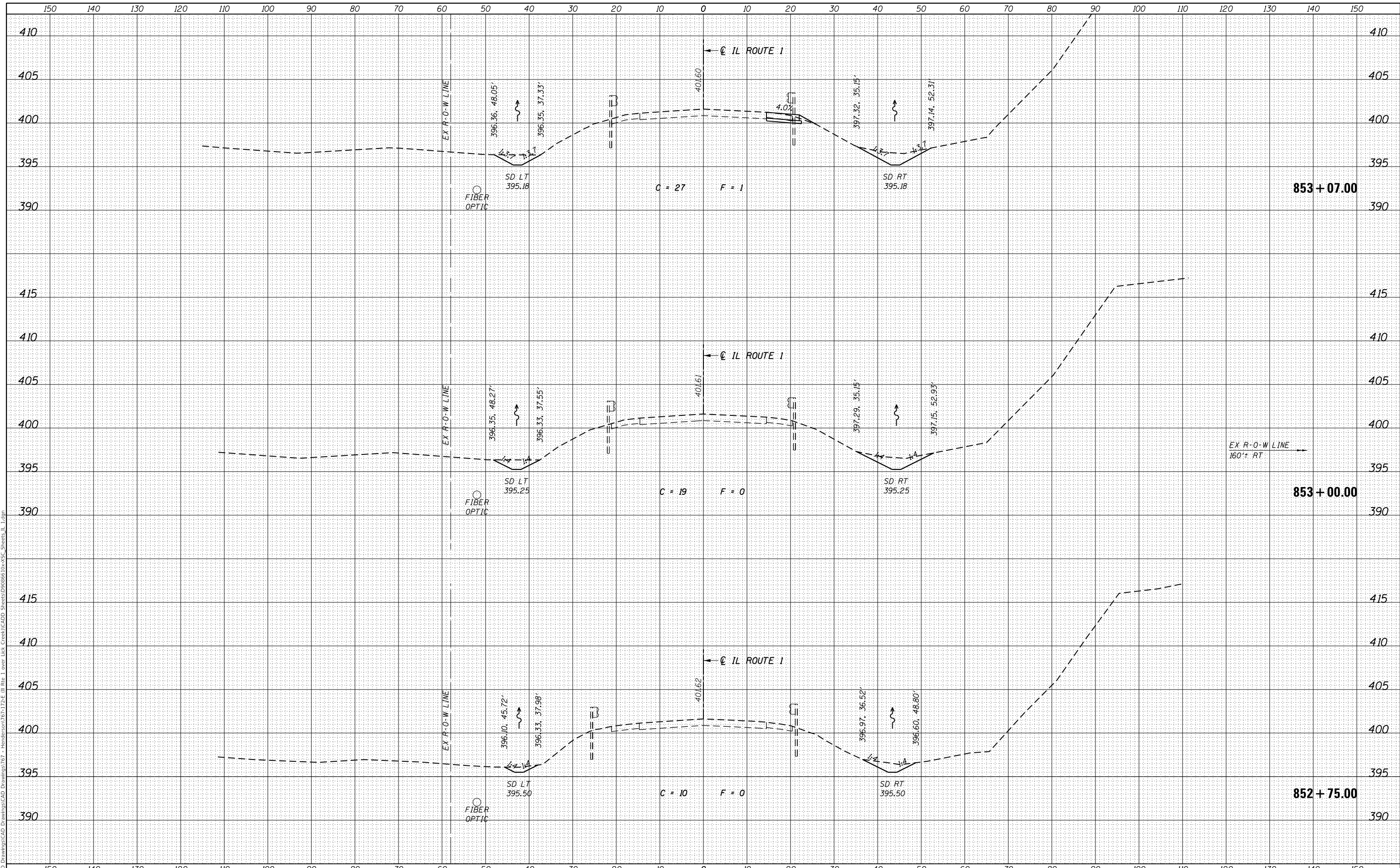
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F.A.P. RTE. 332	SECTION 2B-3	COUNTY WHITE	TOTAL SHEETS 45	SHEET NO. 36
			CONTRACT NO. 78328	
		ILLINOIS	FED. AID PROJECT	

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

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

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USER NAME = jbeque	DESIGNED - J.E.B.	REVISED -
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PLOT SCALE = 20.0000' / in.	CHECKED - R.H.D.	REVISED -
PLOT DATE = 9/29/2020	DATE - 09/29/2020	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

CROSS SECTIONS - ILLINOIS ROUTE 1 OVER LICK CREEK

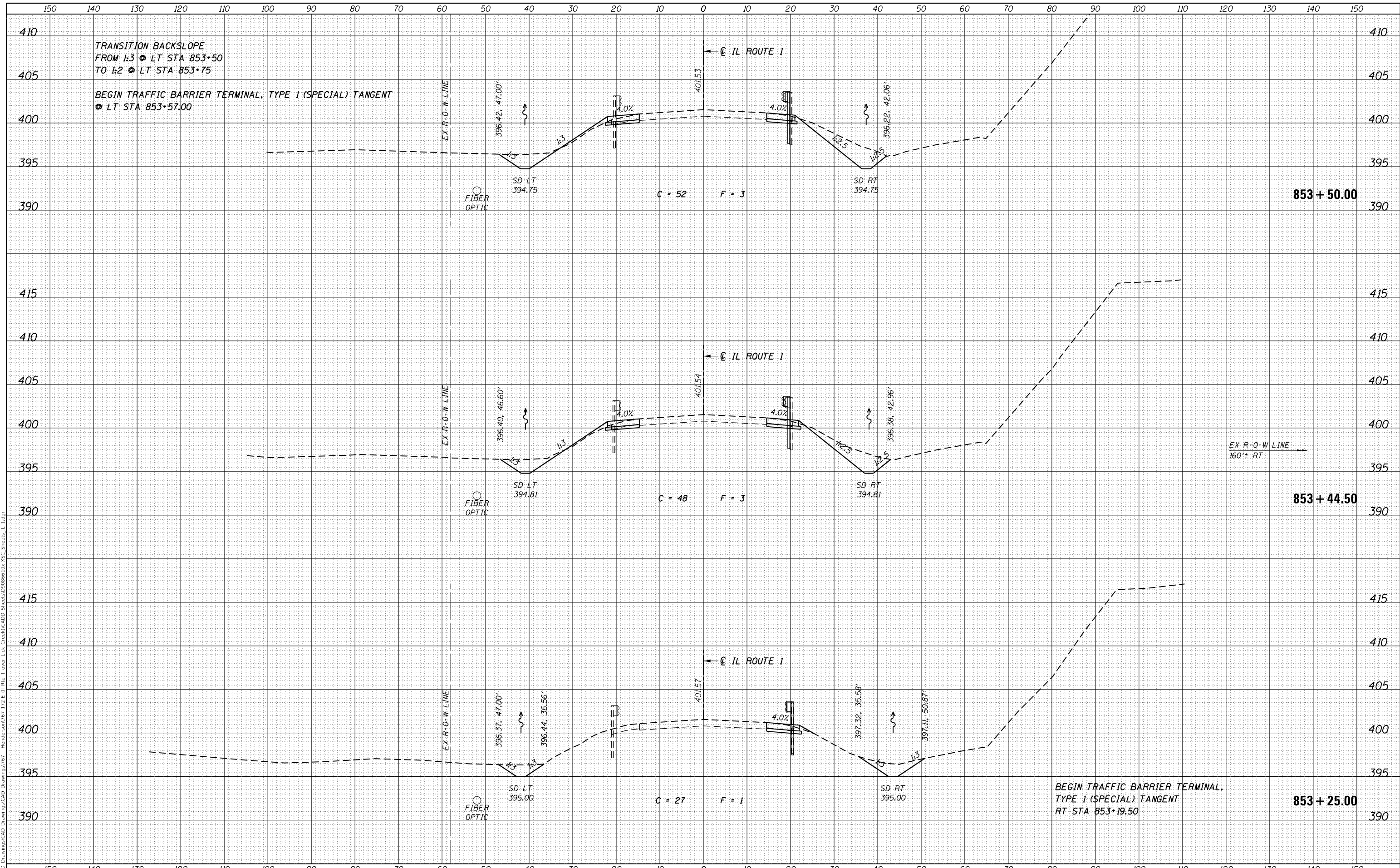
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F.A.P. RTE. 332	SECTION 2B-3	COUNTY WHITE	TOTAL SHEETS 45	SHEET NO. 37
			CONTRACT NO. 78328	
		ILLINOIS	FED. AID PROJECT	

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

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

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USER NAME	= jbeque
DESIGNED	- J.E.B.
DRAWN	- J.E.B.
CHECKED	- R.H.D.
DATE	- 09/29/2020
PLLOT SCALE	= 20.0000' / in.
PLLOT DATE	= 9/29/2020

REVISED	-
REVISED	-
REVISED	-
REVISED	-

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS - ILLINOIS ROUTE 1 OVER LICK CREEK

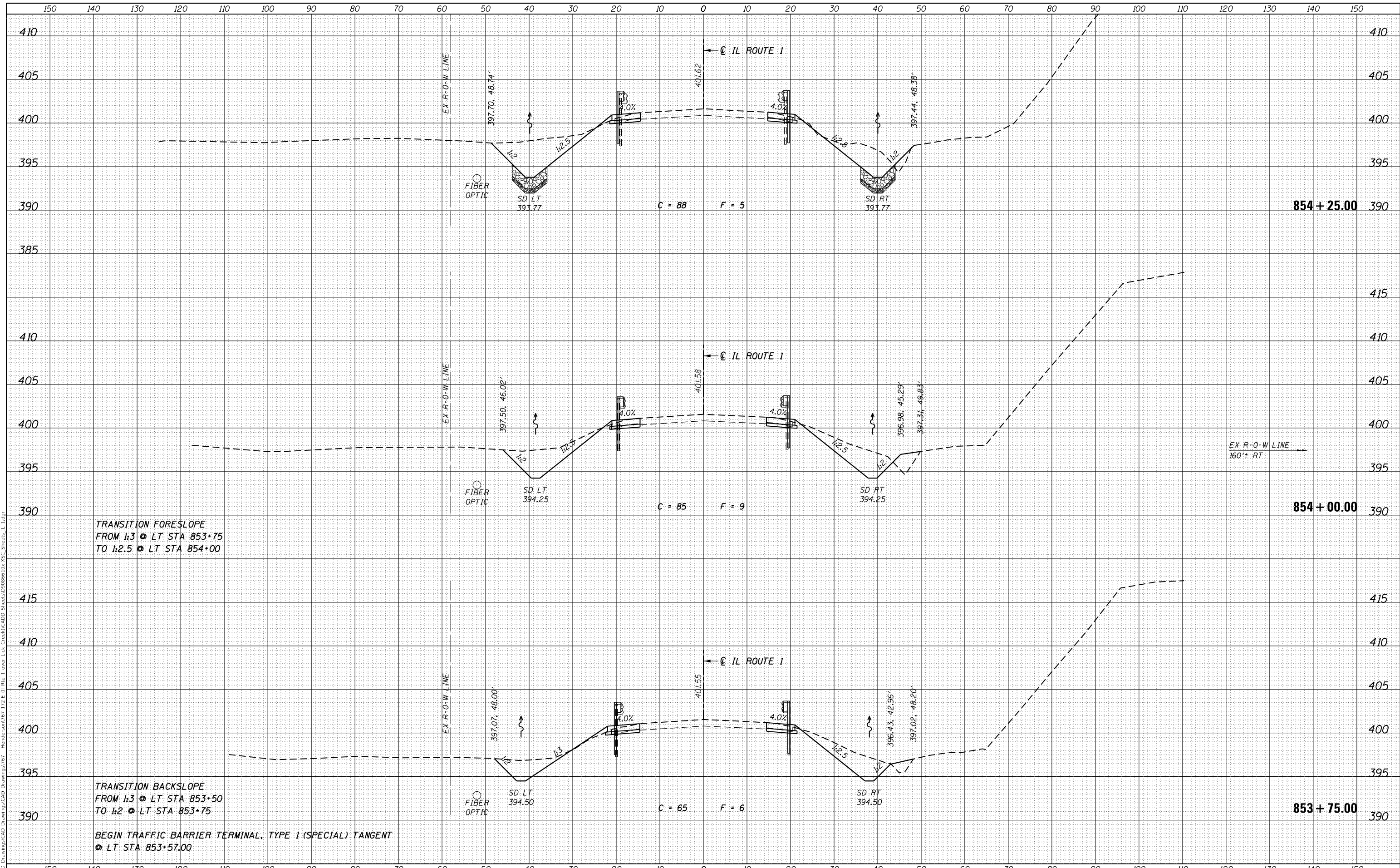
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	2B-3	WHITE	45	38
				CONTRACT NO. 78328
				ILLINOIS FED. AID PROJECT

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

DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS CHECKED	
NO.	
ORIGINAL SURVEY	
NOTE BOOK	
AREAS CHECKED	
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TRANSITION FORESLOPE
FROM 1:3 @ LT STA 853+75
TO 1:2.5 @ LT STA 854+00

TRANSITION BACKSLOPE
FROM 1:3 @ LT STA 853+50
TO 1:2 @ LT STA 853+75

BEGIN TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT
@ LT STA 853+57.00

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

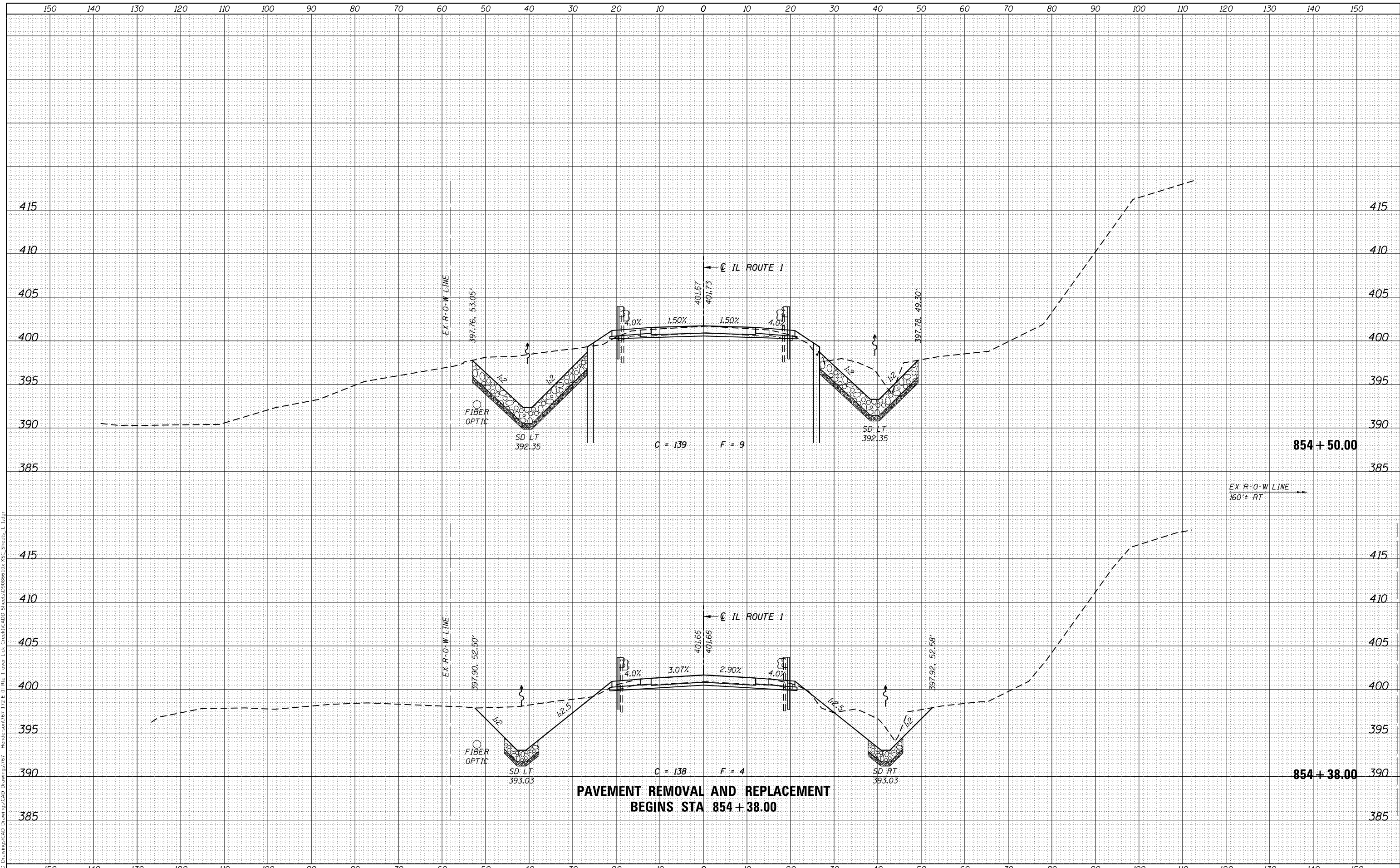
CROSS SECTIONS - ILLINOIS ROUTE 1 OVER LICK CREEK

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PLOT SCALE = 20.0000' / in.	DRAWN - J.E.B.	REVISED -	CONTRACT NO. 78328				
PLOT DATE = 9/29/2020	CHECKED - R.H.D.	REVISED -	ILLINOIS FED. AID PROJECT				
DATE - 09/29/2020	REVISOR -	REVISED -	SCALE:	SHEET OF SHEETS	STA. 853+75.00 TO STA. 854+25.00		

DATE	
BY	
FINISHED	
SURVEYED	
PLOTTED	
TEMPLATE	
NOTE BOOK	
AREAS CHECKED	
NO.	

DATE	
BY	
ORIGINAL	
SURVEY	
PLOTTED	
TEMPLATE	
AREAS CHECKED	
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**PAVEMENT REMOVAL AND REPLACEMENT
 BEGINS STA 854+38.00**

USER NAME = jbeque	DESIGNED - J.E.B.	REVISED -
	DRAWN - J.E.B.	REVISED -
PLOT SCALE = 20.0000' / in.	CHECKED - R.H.D.	REVISED -
PLOT DATE = 9/29/2020	DATE - 09/29/2020	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

CROSS SECTIONS - ILLINOIS ROUTE 1 OVER LICK CREEK

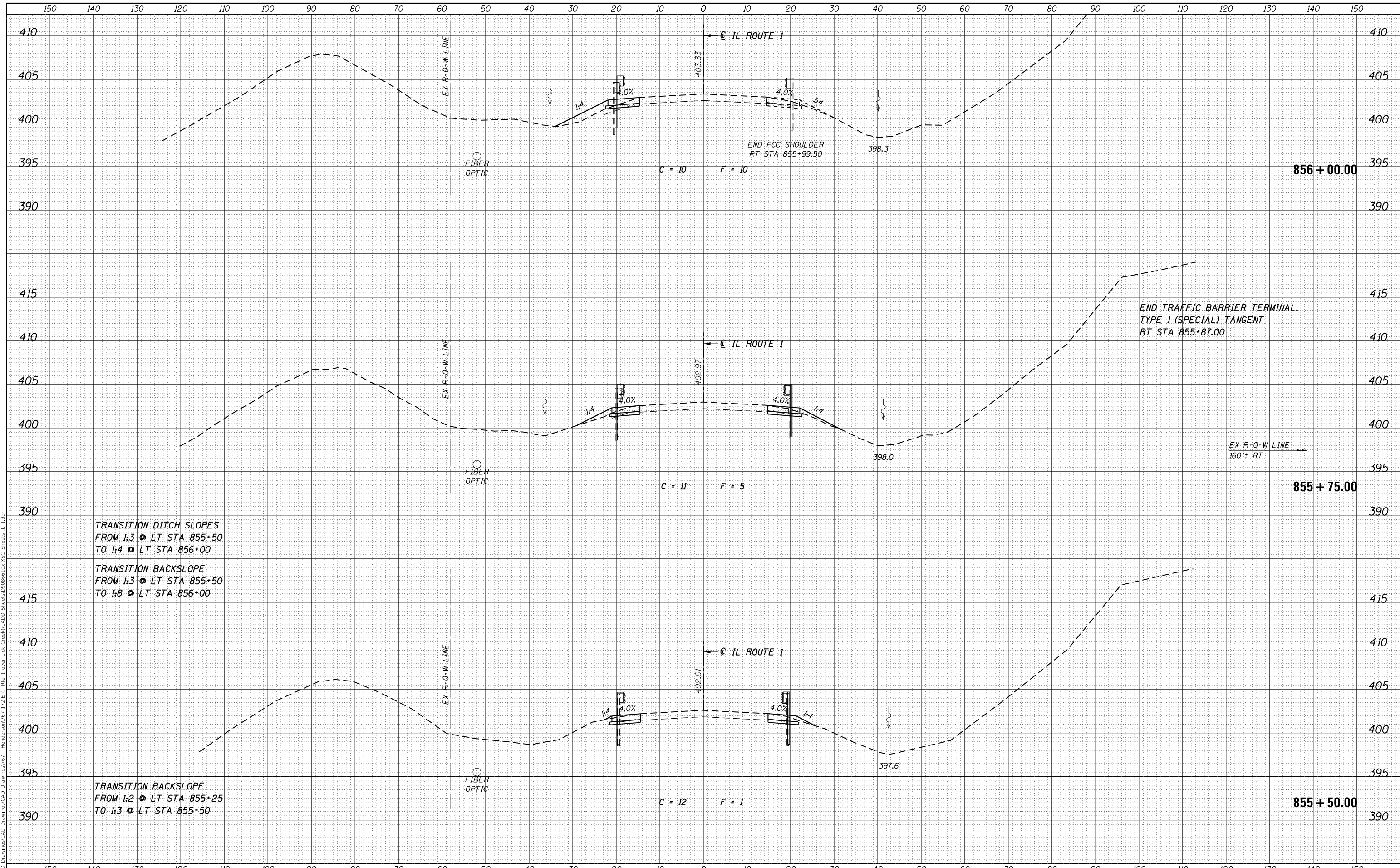
SCALE: SHEET OF SHEETS STA. 854+38.00 TO STA. 854+50.00

F.A.P. RTE. 332	SECTION 2B-3	COUNTY WHITE	TOTAL SHEETS 45	SHEET NO. 40
			CONTRACT NO. 78328	
		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.	

MODEL: Default
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TRANSITION DITCH SLOPES
 FROM 1:3 @ LT STA 855+50
 TO 1:4 @ LT STA 856+00

TRANSITION BACKSLOPE
 FROM 1:3 @ LT STA 855+50
 TO 1:8 @ LT STA 856+00

TRANSITION BACKSLOPE
 FROM 1:2 @ LT STA 855+25
 TO 1:3 @ LT STA 855+50

USER NAME = jbeque	DESIGNED - J.E.B.	REVISED -
	DRAWN - J.E.B.	REVISED -
PLOT SCALE = 20.0000' / in.	CHECKED - R.H.D.	REVISED -
PLOT DATE = 9/29/2020	DATE - 09/29/2020	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS - ILLINOIS ROUTE 1 OVER LICK CREEK

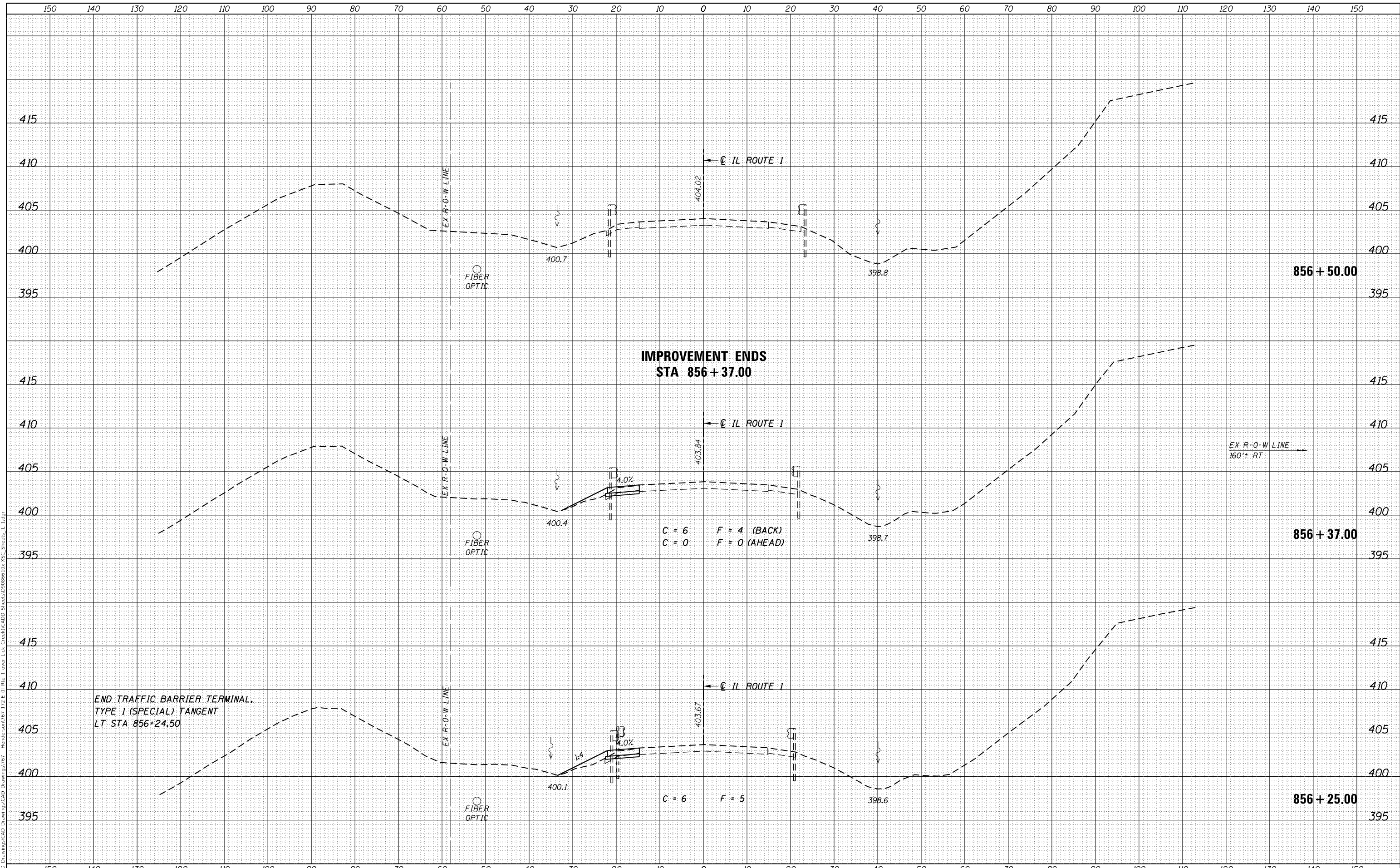
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F.A.P. RTE. 332	SECTION 2B-3	COUNTY WHITE	TOTAL SHEETS 45	SHEET NO. 44
			CONTRACT NO. 78328	
		ILLINOIS	FED. AID PROJECT	

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

DATE	
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SURVEYED	
PLOTTED	
TEMPLATE	
AREAS CHECKED	
NO.	
ORIGINAL SURVEY	
NOTE BOOK	
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**IMPROVEMENT ENDS
 STA 856 + 37.00**

END TRAFFIC BARRIER TERMINAL.
 TYPE 1 (SPECIAL) TANGENT
 LT STA 856+24.50

C = 6 F = 4 (BACK)
 C = 0 F = 0 (AHEAD)

C = 6 F = 5

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

CROSS SECTIONS - ILLINOIS ROUTE 1 OVER LICK CREEK

USER NAME = jbeque	DESIGNED - J.E.B.	REVISED -
	DRAWN - J.E.B.	REVISED -
PLOT SCALE = 20.0000' / in.	CHECKED - R.H.D.	REVISED -
PLOT DATE = 9/29/2020	DATE - 09/29/2020	REVISED -

SCALE:	SHEET	OF	SHEETS	STA. 856+25.00	TO STA. 856+50.00
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F.A.P. RTE. 332	SECTION 2B-3	COUNTY WHITE	TOTAL SHEETS 45	SHEET NO. 45
			CONTRACT NO. 78328	
		ILLINOIS	FED. AID PROJECT	