

F.A.P. RTE. 132	SECTION 1B-2	COUNTY SALINE	TOTAL SHEETS 76	SHEET NO. 1
		ILLINOIS	CONTRACT NO. 78680	

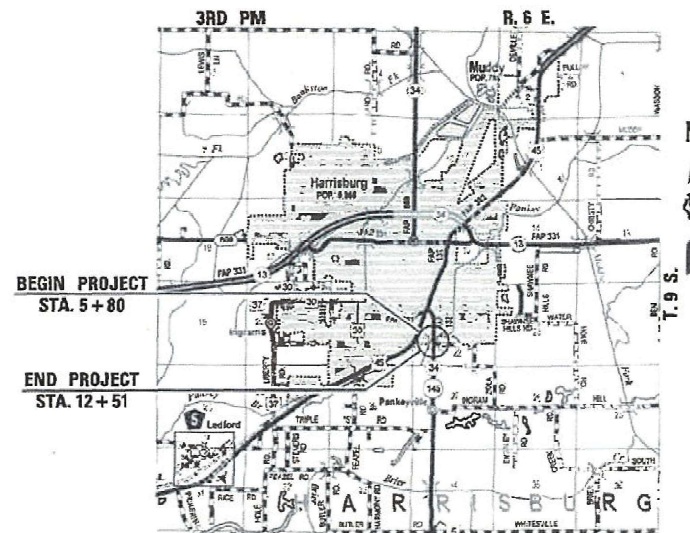
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DEPARTMENT OF TRANSPORTATION

# PROPOSED HIGHWAY PLANS

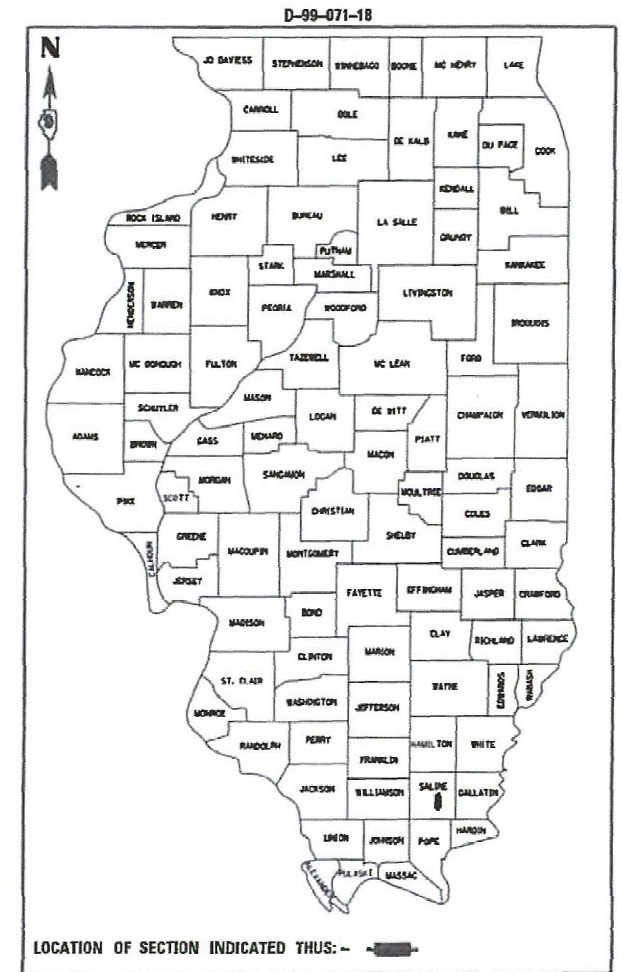
FAP 132 (IL ROUTE 34/145)  
SECTION 1B-2  
PROJECT STP-BC83(173)  
BRIDGE REPLACEMENT OVER PANKEY BRANCH  
SALINE COUNTY  
C-99-105-18

FOR INDEX OF SHEETS SEE SHEET NO. 3  
FOR SUMMARY OF QUANTITIES SEE SHEET NOS. 4-9  
DESIGN DESIGNATION: N/A  
COORDINATE SYSTEM: ILLINOIS COORDINATE SYSTEM,  
EAST ZONE  
POSTED SPEED: 40 MPH

**TRAFFIC DATA**  
FAP 132 (IL 34/145)  
EXISTING ADT = 5850 (2017)  
%SU = 550 (9.40%)  
%MU = 375 (6.41%)  
HARRISBURG TOWNSHIP  
FUNCTIONAL CLASSIFICATION: MINOR ARTERIAL



EXISTING SN 083-0017  
& STRUCTURE STA. 7+45.60  
PROPOSED SN 083-2025  
& STRUCTURE STA. 7+49.00  
IL 34/145 OVER PANKEY BRANCH  
CAST IN PLACE TRIPLE BARREL  
BOX CULVERT 59'-4-3/4" LENGTH  
13'-0" W X 7'-6" H INSIDE BARREL  
13'-0" W X 5'-6" H OUTSIDE BARRELS  
45 DEGREE SKEW LT. FWD.



**LOCATION MAP**  
(NOT TO SCALE)

GROSS LENGTH = 671.00 FT. = 0.127 MILE (IL34/145)  
NET LENGTH = 360.00 FT. = 0.068 MILE (IL34/145 PAVEMENT IMPROVEMENT)  
GROSS LENGTH = 507.00 FT. = 0.096 MILE (GARDEN HEIGHTS ROAD)

Christopher P. Kimm 3/9/21  
 EXPIRATION: 11/30/2021

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

PROJECT ENGINEER: GRANT DETERDING  
CONTRACT NO. 78680

**Veenstra & Kimm, Inc.**  
 Springfield, IL. Phone: (217)644-8033  
 IL. Design Firm No. 184-001939

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SUBMITTED 03-15-2021  
[Signature]  
REGION FIVE ENGINEER

May 7, 2021 [Signature]  
ENGINEER OF DESIGN AND ENVIRONMENT

May 7, 2021 [Signature]  
DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION <sup>13</sup>

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FILE NAME: 010115



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DEPARTMENT OF TRANSPORTATION

SIGNATURE SHEET

SCALE: \_\_\_\_\_ SHEET \_\_\_\_\_ OF \_\_\_\_\_ SHEETS STA. \_\_\_\_\_ TO STA. \_\_\_\_\_

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
132	1B-2	SALINE	76	2
ILLINOIS FED. AID PROJECT			CONTRACT NO. 78680	

PREPARED BY: Charles Steer  
DISTRICT STUDIES AND PLANS ENGINEER

EXAMINED BY: Nancy Lee  
DISTRICT LAND ACQUISITION ENGINEER

EXAMINED BY: Car Nelson  
DISTRICT PROGRAM DEVELOPMENT ENGINEER

EXAMINED BY: Karl Kelly  
DISTRICT OPERATIONS ENGINEER

EXAMINED BY: KRO  
DISTRICT PROJECT IMPLEMENTATION ENGINEER

EXAMINED BY: Daryl J. Juchnik  
DISTRICT CONSTRUCTION ENGINEER

EXAMINED BY: R. C. Rao  
DISTRICT MATERIALS ENGINEER

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### 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.) THE QUANTITY OF SHORT TERM PAVEMENT MARKING SHOWN IN THE PLANS IS BASED ON ONE APPLICATION EACH FOR THE HMA SURFACE REMOVAL, BINDER COURSE, AND SURFACE COURSE.
- 3.) TO RETAIN THE TEMPORARY CONCRETE BARRIER FOR STAGE II TRAFFIC, THE CONTRACTOR SHALL HAVE THE OPTION OF USING EITHER 2 (#5) BAR SPLICER 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 THE ANCHORING DEVICES, THE CONTRACTOR SHALL PROVIDE ONE STEEL RETAINING PLAST AND 1/2" DIAMETER BOLT AND WASHERS EVERY 6 FEET AS SHOWN ON DETAIL II ON STANDARD R-27 FROM STA. 6+83 TO STA. 8+15 FOR STAGE II TRAFFIC. THIS WORK SHALL BE INCLUDED IN THE COST OF TEMPORARY CONCRETE BARRIER. NO ADDITIONAL COMPENSATION SHALL BE PROVIDED.

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 TON/CU. YD.
ALL HOT-MIX ASPHALT	2.016 TON/CU. YD.
RIPRAP	1.5 TON/CU. YD.

### COMMITMENTS

- 1.) TREES EQUAL TO OR GREATER THAN 3 INCHES IN DIAMETER SHALL NOT BE REMOVED BETWEEN APRIL 1 AND SEPTEMBER 30 OF ANY GIVEN YEAR.

## STANDARDS

001006	DECIMAL OF INCH AND FOOT
542404-04	METAL FLARED END SECTION FOR PIPE CULVERT
602306-03	INLET, TYPE B
604036-03	GRATE TYPE 8
781001-04	TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS
000001-08	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
001001-02	AREAS OF REINFORCEMENT
280001-07	TEMPORARY EROSION CONTROL SYSTEMS
420001-09	PAVEMENT JOINTS
420101-06	24' (7.2M) JOINTED PCC PAVEMENT
420701-03	PAVEMENT WELDED WIRE FABRIC
515001-04	NAME PLATE FOR BRIDGES
542301-03	PRECAST REINFORCED CONCRETE FLARED END SECTIONS
542306-03	PRECAST REINFORCED CONCRETE ELLIPTICAL FLARED END SECTION
542406-04	METAL FLARED END SECTIONS FOR PIPE ARCHES
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
631032-09	TRAFFIC BARRIER TERMINAL, TYPE 6A
643001-02	SAND MODULE IMPACT ATTENUATORS
666001-01	RIGHT-OF-WAY MARKERS
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
720006-04	SIGN PANEL ERECTION DETAILS
725001-01	OBJECT AND TERMINAL MARKERS
728001-01	TELESCOPING STEEL SIGN SUPPORT
780001-05	TYPICAL PAVEMENT MARKINGS
782006-01	GUARDRAIL AND BARRIER WALL REFLECTOR MOUNTING DETAILS
BLR 21-9	TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES FOR CONSTRUCTION ON RURAL LOCAL HIGHWAYS

REV. - MS

LOCATIONS	HMA SURFACE COURSE	HMA SHOULDERS (LOWER LIFT)	HMA SHOULDERS (TOP LIFT)	HMA BINDER AND BASE COURSE WIDENING
MIXTURE USES:	HMA SURFACE COURSE, MIX C, N70	HMA BINDER COURSE, N30, 19.0L	HMA SURFACE COURSE, MIX C, N30, 9.5L	HMA BINDER COURSE, N70, IL-19.0
AB/PG	PG64-22	PG64-22	PG64-22	PG64-22
ABR % (MAX)	SEE SPECIAL PROVISION	SEE SPECIAL PROVISION	SEE SPECIAL PROVISION	SEE SPECIAL PROVISION
DESIGN AIR VOIDS	4.0%, 70 GYRATION DESIGN	4.0%, 30 GYRATION DESIGN	4.0%, 30 GYRATION DESIGN	4.0%, 70 GYRATION DESIGN
MIXTURE COMPOSITION (GRADATION MIXTURE)	IL-9.5MM	IL-19.0L	IL-9.5L	IL-19.0MM
FRICTION AGGREGATE	C SURFACE	NONE	NONE	NONE
MIXTURE WEIGHT	112 LBS./SQ. YD./INCH	112 LBS./SQ. YD./INCH	112 LBS./SQ. YD./INCH	112 LBS./SQ. YD./INCH
QUALITY MANAGEMENT PROGRAM	QCQA	QCQA	QCQA	QCQA
SUBLOT SIZE	NA	NA	NA	NA

**STATE OF ILLINOIS  
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**GENERAL NOTES, COMMITMENTS & PROJECT SPECIFIC NOTES**

SCALE: \_\_\_\_\_ SHEET \_\_\_\_ OF \_\_\_\_ SHEETS STA. \_\_\_\_\_ TO STA. \_\_\_\_\_

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
132	1B-2	SALINE	76	3
CONTRACT NO. 78680				
ILLINOIS FED. AID PROJECT				

MODEL & MODEL NAMES FILE NAMES SHEETS



CODE NO.	ITEM	UNIT	TOTAL QUANTITY	SALINE	
				LOCATION	CONST CODE
				80% FED/20% STATE	0010
				URBAN	
				SN 083-2025	
				FAP 132 (IL 34/145)	
20100210	TREE REMOVAL (OVER 15 UNITS DIAMETER)	UNIT	34		34
20200100	EARTH EXCAVATION	CU YD	2960		2960
20700220	POROUS GRANULAR EMBANKMENT	CU YD	500		500
21400100	GRADING AND SHAPING DITCHES	FOOT	217		217
25000210	SEEDING, CLASS 2A	ACRE	1.5		1.5
25000350	SEEDING, CLASS 7	ACRE	1.5		1.5
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	135		135
25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	135		135
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	135		135
25000700	AGRICULTURAL GROUND LIMESTONE	TON	3.0		3.0
25100115	MULCH, METHOD 2	ACRE	1.5		1.5
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	150		150
28000305	TEMPORARY DITCH CHECKS	FOOT	98		98
28000400	PERIMETER EROSION BARRIER	FOOT	585		585

\* SEE SPECIAL PROVISIONS

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PLOT DATE =	CHECKED -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**SUMMARY OF QUANTITIES**

SCALE: NONE    SHEET NO. 1 OF 7 SHEETS    STA.    TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
132	1B-2	SALINE	76	4
CONTRACT NO. 78680			ILLINOIS FED. AID PROJECT	



CODE NO.	ITEM	UNIT	TOTAL QUANTITY	LOCATION
				URBAN
				SALINE
				FAP 132 (IL 34/145)
				80% FED/20% STATE
				SN 083-2025
				CONST CODE
				0010
48101200	AGGREGATE SHOULDERS, TYPE B	TON	275	275
48203037	HOT-MIX ASPHALT SHOULDERS, 10"	SQ YD	529	529
48300500	PORTLAND CEMENT CONCRETE SHOULDERS 10"	SQ YD	235	235
50100100	REMOVAL OF EXISTING STRUCTURES	EACH	1	1
50105220	PIPE CULVERT REMOVAL	FOOT	236	236
50200450	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL FOR STRUCTURES	CU YD	700	700
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	79510	79510
50800515	BAR SPLICERS	EACH	197	197
50900200	STEEL RAILING, TYPE 2399	FOOT	117	117
51500100	NAME PLATES	EACH	1	1
52200010	TEMPORARY SHEET PILING	SQ FT	627	627
54003000	CONCRETE BOX CULVERTS	CU YD	325.6	325.6
542A0223	PIPE CULVERTS, CLASS A, TYPE 1 18"	FOOT	122	122
542A0229	PIPE CULVERTS, CLASS A, TYPE 1 24"	FOOT	40	40

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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**SUMMARY OF QUANTITIES**

SCALE: NONE    SHEET NO. 3 OF 7 SHEETS    STA.    TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
132	1B-2	SALINE	76	6
			<b>CONTRACT NO. 78680</b>	
ILLINOIS FED. AID PROJECT				



CODE NO.	ITEM	UNIT	TOTAL QUANTITY	SALINE	
				LOCATION	CONST CODE
				80% FED/20% STATE	URBAN
				SN 083-2025	
				0010	
66600105	FURNISHING AND ERECTING RIGHT OF WAY MARKERS	EACH	16	16	
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	16	16	
67100100	MOBILIZATION	L SUM	1	1	
70100405	TRAFFIC CONTROL AND PROTECTION, STANDARD 701321	EACH	1	1	
70100450	TRAFFIC CONTROL AND PROTECTION, STANDARD 701201	L SUM	1	1	
70100500	TRAFFIC CONTROL AND PROTECTION, STANDARD 701326	L SUM	1	1	
70103815	TRAFFIC CONTROL SURVEILLANCE	CAL DA	10	10	
* 70106500	TEMPORARY BRIDGE TRAFFIC SIGNALS	EACH	1	1	
70106700	TEMPORARY RUMBLE STRIPS	EACH	6	6	
70107025	CHANGEABLE MESSAGE SIGN	CAL DA	28	28	
70300220	TEMPORARY PAVEMENT MARKING - LINE 4"	FOOT	1867	1867	
70400100	TEMPORARY CONCRETE BARRIER	FOOT	362.5	362.5	
70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	287.5	287.5	
70600255	IMPACT ATTENUATORS, TEMPORARY (FULLY REDIRECTIVE, NARROW), TEST LEVEL 2	EACH	2	2	
70600322	IMPACT ATTENUATORS, RELOCATE (FULLY REDIRECTIVE, NARROW), TEST LEVEL 2	EACH	2	2	

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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**SUMMARY OF QUANTITIES**

SCALE: NONE    SHEET NO. 5 OF 7 SHEETS    STA.    TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
132	1B-2	SALINE	76	8
			<b>CONTRACT NO. 78680</b>	
ILLINOIS FED. AID PROJECT				



CODE NO.	ITEM	UNIT	TOTAL QUANTITY	SALINE	
				LOCATION	CONST CODE
				80% FED/20% STATE	URBAN
				SN 083-2025	
				0010	
* 72000100	SIGN PANEL - TYPE 1	SQ FT	35	35	
* 72501000	TERMINAL MARKER - DIRECT APPLIED	EACH	4	4	
* 72800100	TELESCOPING STEEL SIGN SUPPORT	FOOT	80	80	
* 78001110	PAINT PAVEMENT MARKING - LINE 4"	FOOT	3826	3826	
* 78001150	PAINT PAVEMENT MARKING - LINE 12"	FOOT	34	34	
* 78001180	PAINT PAVEMENT MARKING - LINE 24"	FOOT	22	22	
* 78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	9	9	
	78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	8	8
* 78300201	PAVEMENT MARKING REMOVAL - GRINDING	SQ FT	44	44	
* X0900064	MEMBRANE WATERPROOFING SYSTEM FOR BURIED STRUCTURES	SQ YD	291	291	
* * X2600011	REMOVE AND RELOCATE SIGN PANEL	EACH	2	2	
* X7011800	TRAFFIC CONTROL AND PROTECTION, STANDARD BLR 21	L SUM	1	1	
* X7030005	TEMPORARY PAVEMENT MARKING REMOVAL	SQ FT	623	623	
* X7040125	PINNING TEMPORARY CONCRETE BARRIER	EACH	45	45	

\* SEE SPECIAL PROVISIONS

\* SPECIALTY ITEM

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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**SUMMARY OF QUANTITIES**

SCALE: NONE    SHEET NO. 6 OF 7 SHEETS    STA.    TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
132	1B-2	SALINE	76	9
CONTRACT NO. 78680			ILLINOIS FED. AID PROJECT	

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	SALINE	
				LOCATION	CONST CODE
				80% FED/20% STATE	0010
				URBAN	
				SN 083-2025	
* Z0023500	FILLING EXISTING CULVERTS	CU YD	16.3		16.3
∅ Z0076600	TRAINEES	HOUR	500		500
* Z0027800	GEOTECHNICAL FABRIC	SQ YD	367		367
∅ Z0076604	TRAINEES TRAINING PROGRAM GRADUATE	HOUR	500		500
* * Z0054517	ROCK FILL - FOUNDATION	TON	1279		1279

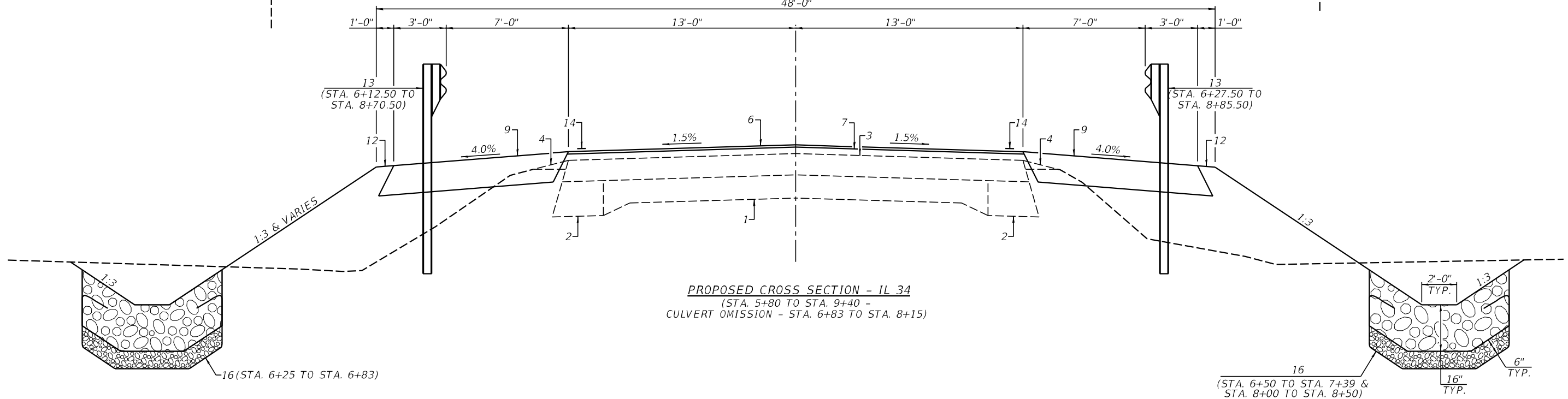
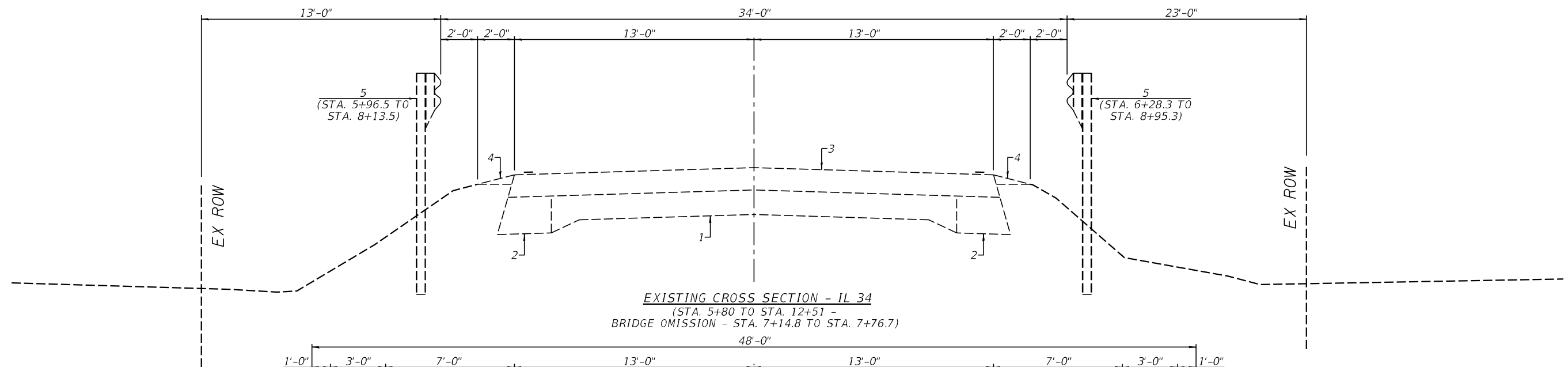
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\* SPECIALTY ITEM

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 Veenstra & Kimm, Inc. Springfield, IL. Phone: (217)544-8033	USER NAME =	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>SUMMARY OF QUANTITIES</b>				F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		CHECKED -	REVISED -		132	1B-2	SALINE	76	10				
	PLOT SCALE =	DRAWN -	REVISED -		SCALE: NONE		SHEET NO. 7 OF 7 SHEETS	STA.	TO STA.	<b>CONTRACT NO. 78680</b>			
	PLOT DATE =	CHECKED -	REVISED -	ILLINOIS FED. AID PROJECT									



**LEGEND**

- 1 - EX 8" HMA BASE COURSE ON 4" SUBBASE
- 2 - EX BASE COURSE WIDENING ±9"
- 3 - EX HMA OVERLAYS ±7 1/4"
- 4 - EX AGG WEDGE SHOULDER
- 5 - EX GUARDRAIL
- 6 - PR HOT MIX ASPHALT SURFACE COURSE 1-1/2"
- 7 - PR HOT MIX ASPHALT BINDER COURSE (VARIABLE DEPTH)
- 7A - PR HOT MIX ASPHALT BINDER COURSE 2-1/2"
- 8 - PR HOT MIX ASPHALT BASE COURSE WIDENING
- 9 - PR HOT MIX ASPHALT SHOULDERS 10"
- 10 - PR AGGREGATE BASE COURSE, TYPE A 8"
- 11 - PR AGGREGATE SHOULDERS, TYPE B 6"
- 12 - PR EARTH SHOULDER
- 13 - PR GUARDRAIL
- 14 - PR PAINT PAVEMENT MARKING LINE - 4"
- 15 - PR GRADING AND SHAPING DITCH
- 16 - PR STONE RIPRAP CLASS A4 (16" W/ 6" BEDDING)
- 17 - PR PORTLAND CEMENT CONCRETE PAVEMENT 10" (JOINTED)
- 18 - PR PORTLAND CEMENT CONCRETE SHOULDERS 10"



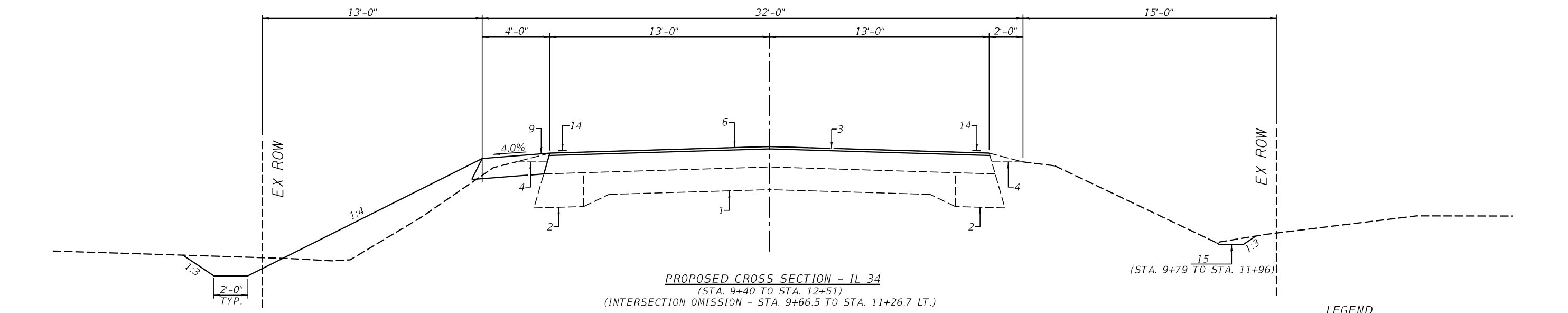
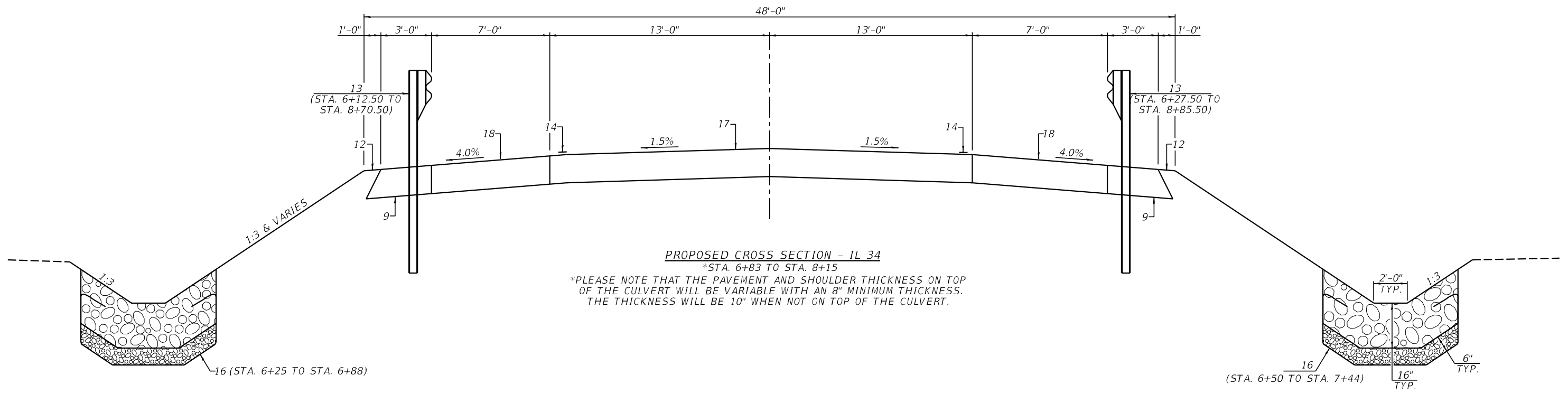
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**TYPICAL ROADWAY CROSS SECTIONS**

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
132	1B-2	SALINE	76	11
CONTRACT NO. 78680				
ILLINOIS FED. AID PROJECT				



- LEGEND**
- 1 - EX 8" HMA BASE COURSE ON 4" SUBBASE
  - 2 - EX BASE COURSE WIDENING ±9"
  - 3 - EX HMA OVERLAYS ±7/4"
  - 4 - EX AGG WEDGE SHOULDER
  - 5 - EX GUARDRAIL
  - 6 - PR HOT MIX ASPHALT SURFACE COURSE 1-1/2"
  - 7 - PR HOT MIX ASPHALT BINDER COURSE (VARIABLE DEPTH)
  - 7A - PR HOT MIX ASPHALT BINDER COURSE 2-1/2"
  - 8 - PR HOT MIX ASPHALT BASE COURSE WIDENING
  - 9 - PR HOT MIX ASPHALT SHOULDERS 10"
  - 10 - PR AGGREGATE BASE COURSE, TYPE A 8"
  - 11 - PR AGGREGATE SHOULDERS, TYPE B 6"
  - 12 - PR EARTH SHOULDER
  - 13 - PR GUARDRAIL
  - 14 - PR PAINT PAVEMENT MARKING LINE - 4"
  - 15 - PR GRADING AND SHAPING DITCH
  - 16 - PR STONE RIPRAP CLASS A4 (16" W/ 6" BEDDING)
  - 17 - PR PORTLAND CEMENT CONCRETE PAVEMENT 10" (JOINTED)
  - 18 - PR PORTLAND CEMENT CONCRETE SHOULDERS 10"



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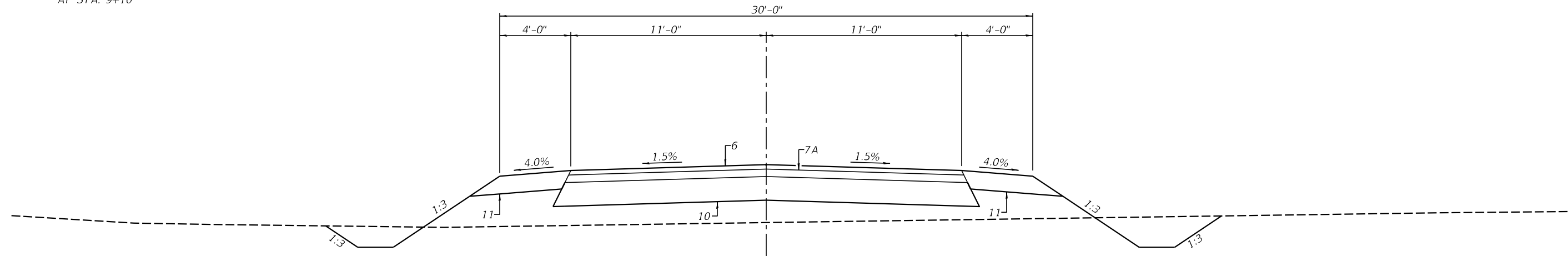
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

TYPICAL ROADWAY CROSS SECTIONS			
SCALE:	SHEET NO.	OF SHEETS	STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
132	1B-2	SALINE	76	12
CONTRACT NO. 78680				
ILLINOIS FED. AID PROJECT				

\* TAPER HMA SHOULDER FROM 7'-0"  
AT STA. 8+80 TO 2'-0" AT STA. 9+10

\*\* BEGIN AGGREGATE SHOULDER  
AT STA. 9+10



**PROPOSED CROSS SECTION - GARDEN HEIGHTS RD**  
(STA. 30+13 TO STA. 35+20)

**LEGEND**

- 1 - EX 8" HMA BASE COURSE ON 4" SUBBASE
- 2 - EX BASE COURSE WIDENING ±9"
- 3 - EX HMA OVERLAYS ±7¼"
- 4 - EX AGG WEDGE SHOULDER
- 5 - EX GUARDRAIL
- 6 - PR HOT MIX ASPHALT SURFACE COURSE 1-1/2"
- 7 - PR HOT MIX ASPHALT BINDER COURSE (VARIABLE DEPTH)
- 7A - PR HOT MIX ASPHALT BINDER COURSE 2-1/2"
- 8 - PR HOT MIX ASPHALT BASE COURSE WIDENING
- 9 - PR HOT MIX ASPHALT SHOULDERS 10"
- 10 - PR AGGREGATE BASE COURSE, TYPE A 8"
- 11 - PR AGGREGATE SHOULDERS, TYPE B 6"
- 12 - PR EARTH SHOULDER
- 13 - PR GUARDRAIL
- 14 - PR PAINT PAVEMENT MARKING LINE - 4"
- 15 - PR GRADING AND SHAPING DITCH
- 16 - PR STONE RIPRAP CLASS A4 (16" W/ 6" BEDDING)
- 17 - PR PORTLAND CEMENT CONCRETE PAVEMENT 10" (JOINTED)
- 18 - PR PORTLAND CEMENT CONCRETE SHOULDERS 10"



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**TYPICAL ROADWAY CROSS SECTIONS**

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
132	1B-2	SALINE	76	13
<b>CONTRACT NO. 78680</b>				
ILLINOIS FED. AID PROJECT				

PERMANENT SEEDING						
LOCATION	SEEDING CLASS 2A	NITROGEN FERTILIZER NUTRIENT	PHOSPHORUS FERTILIZER NUTRIENT	POTASSIUM FERTILIZER NUTRIENT	AGRICULTURAL GROUND LIMESTONE	MULCH METHOD 2
	ACRE	POUND	POUND	POUND	TON	ACRE
STA. 6+03 TO STA. 9+75 RT.	0.09	8	8	8	0.18	0.09
STA. 9+75 TO STA. 12+75 RT.	0.11	10	10	10	0.22	0.11
STA. 5+75 TO STA. 8+38 LT.	0.26	23	23	23	0.52	0.26
STA. 8+38 TO STA. 10+39 LT. (INCLUDES AREA NORTH OF GARDEN HEIGHTS ROAD)	0.71	64	64	64	1.42	0.71
STA. 10+61 TO STA. 12+51 LT. (INCLUDES AREA SOUTH OF GARDEN HEIGHTS ROAD)	0.23	21	21	21	0.46	0.23
TOTAL	1.40	126	126	126	2.80	1.40

USE 1.5 ACRE USE 135 LBS. USE 135 LBS. USE 135 LBS. USE 3 TON USE 1.5 ACRE

HMA RESURFACING SCHEDULE						
LOCATION	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	BITUMINOUS MATERIALS (PRIME COAT)	BITUMINOUS MATERIALS (TACK COAT)	HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70	HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX"C", N70	HOT-MIX ASPHALT SURFACE REMOVAL, 1 1/2"
	SQ. YD.	POUND	POUND	TON	TON	SQ. YD.
IL 34						
STA. 5+80 TO STA. 6+49	100					
STA. 8+82 TO STA. 9+40	84					
STA. 5+80 TO STA. 6+83			201	4	225	
STA. 8+15 TO STA. 12+51			851	27	953	
STA. 9+40 TO STA. 12+51						899
GARDEN HEIGHTS ROAD						
STA. 30 +13 TO STA. 35+20		3258	326	203	122	
TOTAL	184	3258	1378	234	1300	899

PIPE CULVERT SCHEDULE							
LOCATION	PIPE CULVERT REMOVAL	PIPE CULVERTS, CLASS A, TYPE 1 18"	PIPE CULVERTS, CLASS A, TYPE 1 24"	PIPE CULVERTS, CLASS A, TYPE 1 30"	PIPE CULVERTS, CLASS A, TYPE 1 EQUIVALENT ROUND SIZE 18"	PIPE CULVERTS, CLASS D, TYPE 1 EQUIVALENT ROUND-SIZE 18"	FILLING EXISTING CULVERTS
	FOOT	FOOT		FOOT	FOOT	FOOT	CU. YD.
IL 34							
STA. 7+58 TO STA. 8+90 (INCLUDES END SECTION AND GRATE)	132						
STA. 9+29 TO STA. 9+73 RT.	44						
STA. 8+49 40.5' RT. TO STA. 8+99 32' RT.			50				
STA. 9+01 32' RT. TO STA. 9+73 26' RT.			72				
STA. 12+02 26' RT. TO STA. 12+38 26' RT.					36		
STA. 34+69 24' LT. TO STA. 35+11 20' LT.						42	
STA. 34+69 24' RT. TO STA. 35+11 20' RT.						42	
STA. 8+41 31' LT. TO STA. 8+42 31' RT.							16.3
GARDEN HEIGHTS ROAD							
STA. 20 +95 TO STA. 21+55 (RELOCATED GARDEN HEIGHTS RD.)	60						
STA. 31+00 19' RT. TO STA. 31+00 21' LT.				40			
STA. 32+50 19.5' RT. TO STA. 32+50 20.5' LT.							
TOTAL	236	122	40	40	36	84	16.3

END SECTION SCHEDULE					
LOCATION	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 18"	PRECAST REINFORCED CONCRETE FLARED END SECTIONS EQUIVALENT ROUND SIZE 18"	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 30"	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 24"	METAL FLARED END SECTIONS, EQUIVALENT ROUND SIZE 18"
	EACH	EACH	EACH	EACH	EACH
IL 34					
STA. 9+73 TO STA. 9+79 26' RT.	1				
STA. 11+96 TO STA. 12+02 26' RT.		1			
STA. 12+38 TO STA. 12+44 26' RT.		1			
GARDEN HEIGHTS ROAD					
STA. 31+00 19' RT. TO 25' RT.			1		
STA. 31+00 21' LT. TO 27' LT.			1		
STS. 32+50 19.5' LT. TO 25.5' LT.				1	
STS. 32+50 18.5' RT. TO 24.5' RT.				1	
STA. 35+67 TO STA. 35+69 24' LT.					1
STA. 36+11 TO STA. 36+13 20' LT.					1
STA. 35+67 TO STA. 35+69 24' RT.					1
STA. 36+11 TO STA. 36+13 20' RT.					1
TOTAL	1	2	2	2	4

PORTLAND CEMENT CONCRETE SCHEDULE		
LOCATION	PORTLAND CEMENT CONCRETE SHOULDERS 10"	PORTLAND CEMENT CONCRETE SURFACE 10"
	SQ. YD.	SQ. YD.
STA. 6+83 TO STA. 8+15 LT. & RT.	235	
STA. 6+83 TO STA. 8+15		352
TOTAL	235	352

HMA SHOULDERS AND BASE COURSE WIDENING		
LOCATION	HOT-MIX ASPHALT BASE COURSE WIDENING 10"	HOT-MIX ASPHALT SHOULDERS 10"
	SQ. YD.	SQ. YD.
STA. 6+20 TO STA. 7+27.8 RT.	44	
STA. 7+89.7 TO STA. 9+00 RT.	31	
STA. 5+80 TO STA. 6+83 LT.		105
STA. 6+83 TO STA. 6+99.54 LT.		6
STA. 6+03 TO STA. 6+83 RT.		81
STA. 6+83 TO STA. 7+39.54 RT.		19
STA. 7+58.46 TO STA. 8+15 LT.		19
STA. 8+15 TO STA. 9+66.5 LT.		125
STA. 7+98.46 TO STA. 8+15 RT.		6
STA. 8+15 TO STA. 9+36.5 RT.		112
STA. 11+26.7 TO STA. 12+51 LT.		56
TOTAL	75	529



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QUANTITY SCHEDULES

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
132	1B-2	SALINE	76	14
CONTRACT NO. 78680				
ILLINOIS FED. AID PROJECT				

STEEL RAILING AND GUARDRAIL SCHEDULE					
LOCATION	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	STEEL PLATE BEAM GUARDRAIL 6 FOOT POSTS	TRAFFIC BARRIER TERMINAL, TYPE 6A	TERMINAL MARKER - DIRECT APPLIED	GUARDRAIL REMOVAL
	EACH	FOOT	EACH	EACH	FOOT
STA. 6+12.64 TO STA. 6+62.64 LT.	1				
STA. 6+62.64 TO STA. 6+99.54 LT.			1		
STA. 6+27.64 TO STA. 6+77.64 RT.	1				
STA. 6+77.64 TO STA. 7+02.64 RT.		25			
STA. 7+02.64 TO STA. 7+39.54 RT.			1		
STA. 7+58.46 TO STA. 7+95.36 LT.			1		
STA. 7+95.36 TO STA. 8+20.36 LT.		25			
STA. 8+20.36 TO STA. 8+70.36 LT.	1				
STA. 7+98.46 TO STA. 8+35.36 RT.			1		
STA. 8+35.36 TO STA. 8+85.36 RT.	1				
STA. 6+12.64 LT.				1	
STA. 6+27.64 RT.				1	
STA. 8+70.36 LT.				1	
STA. 8+85.36 RT.				1	
STA. 5+96 TO STA. 6+98 LT.					102
STA. 6+28 TO STA. 7+30 RT.					102
STA. 7+60 TO STA. 8+14 LT.					54
STA. 7+93 TO STA. 8+95 RT.					102
TOTAL	4	50	4	4	360

PAINT PAVEMENT MARKING SCHEDULE					
LOCATION	PAINT PAVEMENT MARKING - LINE 4"			PAINT PAVEMENT MARKING-LINE 12" (WHITE)	PAINT PAVEMENT MARKING-LINE 24" (WHITE)
	30' SKIP 10' DASH (YELLOW)	CENTERLINE NO PASSING (YELLOW)	EDGE LINE (WHITE)		
	FOOT	FOOT	FOOT		
IL 34					
STA. 5+80 TO STA. 9+75 LT.			395		
STA. 10+26 TO STA. 12+51 LT.			125		
STA. 6+18 TO STA. 12+51 RT.			633		
STA. 4+40 TO STA. 10+65	170				
STA. 10+65 TO STA. 12+51	50	186 RT.			
GARDEN HEIGHTS ROAD					
STA. 30+13 TO STA. 35+20		1088	1088		
STA. 30+13 TO STA. 30+81 (PAINTED MEDIAN)			91		
WEST LINE IN PAINTED MEDIAN				15	
MIDDLE LINE IN PAINTED MEDIAN				13	
EAST LINE IN PAINTED MEDIAN				6	
STA. 30+50 (RIGHT TURN LANE)					11
STA. 30+23 (LEFT TURN LANE)					11
SUBTOTAL	220	1274	2332	34	22
TOTAL		3826		34	22

TEMPORARY PAVEMENT MARKING		
LOCATION	TEMPORARY PAVEMENT MARKING - LINE 4"	TEMPORARY PAVEMENT MARKING REMOVAL
	FOOT	SQ. FT.
STA. 4+82 TO STA. 10+67.9 CENTERLINE STAGE I	497	166
STA. 6+20 TO STA. 9+00 EDGE STAGE I	291	97
STA. 4+57.2 TO STA. 11+17.7 CENTERLINE STAGE II	663	221
STA. 5+24 TO STA. 9+40 EDGE STAGE II	416	139
TOTAL	1867	623

PAVEMENT MARKING REMOVAL - GRINDING	
LOCATION	PAVEMENT MARKING REMOVAL - GRINDING SQ. FT.
STA. 4+40 TO STA. 6+00 CENTERLINE SKIP DASH	14
STA. 8+45 TO STA. 11+90 CENTERLINE SKIP DASH	30
TOTAL	44

TEMPORARY BRIDGE TRAFFIC SIGNALS	
LOCATION	TEMPORARY BRIDGE TRAFFIC SIGNALS EACH
STA. 4+90 19' RT.	0.2
STA. 5+15 19.4' LT.	0.2
STA. 10+50 21.6' RT.	0.2
STA. 11+15 20.1' LT.	0.2
STA. 11+40 19.4' RT.	0.2
TOTAL	1

TEMPORARY CONCRETE BARRIER AND IMPACT ATTENUATORS				
LOCATION	IMPACT ATTENUATORS, TEMPORARY (FULLY-REDIRECTIVE, NARROW), TEST LEVEL 2	TEMPORARY CONCRETE BARRIER	RELOCATE TEMPORARY CONCRETE BARRIER	IMPACT ATTENUATORS, RELOCATE (FULLY-REDIRECTIVE, NARROW) TEST LEVEL 2
	EACH	FOOT	FOOT	EACH
STA. 5+80.5 TO STA. 6+06.1 LT.	1			
STA. 6+06.1 TO STA. 8+93.4 LT. (STAGE I)		287.5		
STA. 8+93.4 TO STA. 9+19.0 LT.	1			
STA. 5+43.3 TO STA. 5+68.9 RT.				1
STA. 5+68.9 TO STA. 6+43.5 RT.		75		
STA. 6+43.5 TO STA. 9+30.6 (STAGE II)			287.5	
STA. 9+05.0 TO STA. 9+30.6 RT.				1
TOTAL	2	362.5	287.5	2

TEMPORARY EROSION CONTROL ITEMS					
LOCATION	SEEDING, CLASS 7	TEMPORARY EROSION CONTROL SEEDING	TEMPORARY DITCH CHECKS	PERIMETER EROSION BARRIER	INLET AND PIPE PROTECTION
	ACRE	POUND	FOOT	FOOT	EACH
IL 34					
STA. 6+03 TO STA. 9+75 RT.	0.09	9			
STA. 9+75 TO STA. 12+75 RT.	0.11	11			
STA. 5+75 TO STA. 8+38 LT.	0.26	26			
STA. 8+38 TO STA. 10+39 LT. (INCLUDES AREA NORTH OF GARDEN HEIGHTS ROAD)	0.71	71			
STA. 10+61 TO STA. 12+51 LT. (INCLUDES AREA SOUTH OF GARDEN HEIGHTS ROAD)	0.23	23			
STA. 6+75 42.5' RT.			8		
STA. 7+00 41' RT.			8		
STA. 8+00 45.5' LT.			8		
STA. 8+75 35.5' RT.			7		
STA. 9+00 66.5' LT.			13		
STA. 10+00 87.5' LT.			17		
STA. 11+50 33.5' LT.			9		
STA. 9+79 26' RT.					1
STA. 6+56 TO STA. 7+36 60' RT.				80	
STA. 8+35 TO STA. 8+70 60' RT.				35	
STA. 11+50 50' LT. (IL 34) TO STA. 34+65 35' RT. (GARDEN HEIGHTS ROAD)				470	
GARDEN HEIGHTS ROAD					
STA. 32+00 24.5' RT.			8		
STA. 34+00 27.5' LT. 7 24' RT.			20		
STA. 31+00 19' RT.					1
STA. 32+50 18.5' LT.					1
STA. 36+13 20' LT.					1
STA. 36+13 20' RT.					1
TOTAL	1.40	140	98	585	5

USE 1.5 ACRE USE 150 LBS.



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

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EARTHWORK								
LOCATION	EARTH EXCAVATION	ADJUSTED SHRINKAGE FACTOR	EARTH EXCAVATION (ADJUSTED)	EMBANKMENT	EARTHWORK BALANCE		FURNISHED EXCAVATION	REMARKS
					EXCAVATION REQUIRED TO COMPLETE	EXCESS EXCAVATION		
	CU. YD.	%	CU. YD.	CU. YD.	CU. YD.	CU. YD.	CU. YD.	
STA. 5+80 TO STA. 12+51	992	25	744	742	0	2	0	
STA. 30+13 TO STA. 35+20 (GARDEN HEIGHTS RD.)	1968	25	1476	666	0	810	0	
TOTAL	2,960							

GRADING AND SHAPING DITCHES	
LOCATION	GRADING AND SHAPING DITCHES
	FOOT
STA. 9+79 TO STA. 11+96 RT.	217
TOTAL	217

SIGN PANEL ASSEMBLY SCHEDULE		
LOCATION	SIGN PANEL TYPE 1	REMOVE AND RELOCATE SIGN PANEL
	SQ. FT.	EACH
IL 34		
STA. 10+60 28' RT. (W1-7)	8	
STA. 9+70 24' RT. (NO PASSING ZONE)		1
STA. 12+50 24' LT. (GARDEN HEIGHTS RD.)		1
GARDEN HEIGHTS ROAD		
STA. 30+30 40' LT. (IL 34-145 & GARDEN HEIGHTS ROAD SIGNS)	9	
STA. 30+40 32' LT. (R1-1)	9	
STA. 30+40 32' RT. (R1-1)	9	
TOTAL	35	2

AGGREGATE SCHEDULE		
LOCATION	AGGREGATE BASE COURSE, TYPE A 8"	AGGREGATE SHOULDERS, TYPE B
	SQ. YD.	TON
GARDEN HEIGHTS ROAD		
STA. 30 +13 TO STA. 35+20	1482	
STA. 30 +13 TO STA. 35+20 LT.		77
STA. 30 +13 TO STA. 35+20 RT.		76
F.E. STA. 34+90 LT.		28
F.E. STA. 34+90 RT.		28
IL 34		
C.E. STA. 9+54 RT.		33
C.E. STA. 12+20 RT.		33
TOTAL	1482	275

PAVEMENT REMOVAL	
LOCATION	PAVEMENT REMOVAL
	SQ. YD.
IL 34	
STA. 6+83 TO STA. 7+14.8	92
STA. 7+76.7 TO STA. 8+15	111
GARDEN HEIGHTS ROAD	
STA. 34+56 TO STA. 35+20	294
TOTAL	497

RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	
LOCATION	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL
	EACH
IL 34	
STA. 5+80 TO STA. 12+51	8
TOTAL	8

PINNING TEMPORARY CONCRETE BARRIER	
LOCATION	PINNING TEMPORARY CONCRETE BARRIER
	EACH
STAGE I	
STA. 6+56 TO STA. 6+68.5	1
STA. 6+68.5 TO STA. 6+81.0	2
STA. 6+81.0 TO STA. 8+18.5	33
STA. 8+18.5 TO STA. 8+31.0	2
STA. 8+31.0 TO STA. 8+43.5	1
STAGE II	
STA. 6+56 TO STA. 6+68.5	1
STA. 6+68.5 TO STA. 6+81.0	2
STA. 8+18.5 TO STA. 8+31.0	2
STA. 8+31.0 TO STA. 8+43.5	1
TOTAL	45

70106700 TEMPORARY RUMBLE STRIPS	
LOCATION	TEMPORARY RUMBLE STRIPS
	EACH
700' NORTH OF STA. 4+40 RT.	1
1200' NORTH OF STA. 4+40 RT.	1
1700' NORTH OF STA. 4+40 RT.	1
STA. 18+90 LT.	1
STA. 23+90 LT.	1
STA. 28+90 LT.	1
TOTAL	6

70107025 CHANGEABLE MESSAGE SIGN	
LOCATION	CHANGEABLE MESSAGE SIGN
	CAL. DAY
MESSAGE BOARD SOUTH OF IL 34/145 AND INGRAM ROAD INTERSECTION	14
MESSAGE BOARD NORTH OF IL 34/145 AND US 45 INTERSECTION	14
TOTAL	28

PAVED SHOULDER REMOVAL	
LOCATION	PAVED SHOULDER REMOVAL
	SQ. YD.
STA. 6+20 TO STA. 7+27.8 RT.	44
STA. 7+89.7 TO STA. 9+00 RT.	31
TOTAL	75

INLETS, TYPE B, TYPE 8 GRATE	
LOCATION	INLETS, TYPE B, TYPE 8 GRATE
	EACH
STA. 9+00 32' RT.	1
TOTAL	1

STONE RIPRAP AND FILTER FABRIC SCHEDULE		
LOCATION	STONE RIPRAP CLASS A4	FILTER FABRIC
	TON	SQ. YD.
STA. 6+25 TO STA. 6+83 LT. DITCH	44	86
STA. 6+50 TO STA. 7+39 RT. DITCH	51	102
STA. 8+00 TO STA. 8+50 RT. DITCH	42	75
SN 083-2025 UPSTREAM	98	162
SN 083-2025 DOWNSTREAM	119	198
TOTAL	354	623

FURNISHING AND ERECTING RIGHT OF WAY MARKERS	
LOCATION	FURNISHING AND ERECTING RIGHT OF WAY MARKERS
	EACH
IL 34	
STA. 5+75 30' LT. & 70' LT.	2
STA. 6+56.24 60' RT.	1
STA. 8+37.65 30' LT.	1
STA. 8+38.12 70' LT.	1
STA. 8+70 40' RT. & 60' RT.	2
STA. 11+00 50' LT.	1
STA. 12+75 30' LT. & 50' LT.	2
GARDEN HEIGHTS ROAD	
STA. 30+67.37 35' RT.	1
STA. 31+72.78 35' RT.	1
STA. 32+05.72 35' RT.	1
STA. 34+56.69 35' RT.	1
STA. 35+20 19.84' RT. & 35' RT.	2
TOTAL	16

TELESCOPING STEEL SIGN SUPPORT	
LOCATION	TELESCOPING STEEL SIGN SUPPORT
	FOOT
IL 34	
STA. 9+70 24' LT (NO PASSING ZONE)	12
STA. 12+50 24' LT. (GARDEN HEIGHTS)	12
STA. 12+60 28' RT. (W1-7) - 2 POSTS	20
GARDEN HEIGHTS ROAD	
STA. 30+30 40' LT. (IL 34/145, GARDEN HTS. RD.)	12
STA. 30+40 32' LT. (R1-1)	12
STA. 30+40 32' RT. (R1-1)	12
TOTAL	80

TREE REMOVAL (OVER 15 UNITS DIAMETER)	
LOCATION	TREE REMOVAL (OVER 15 UNITS DIAMETER)
	UNIT
STA. 9+24 32' RT.	34
TOTAL	34



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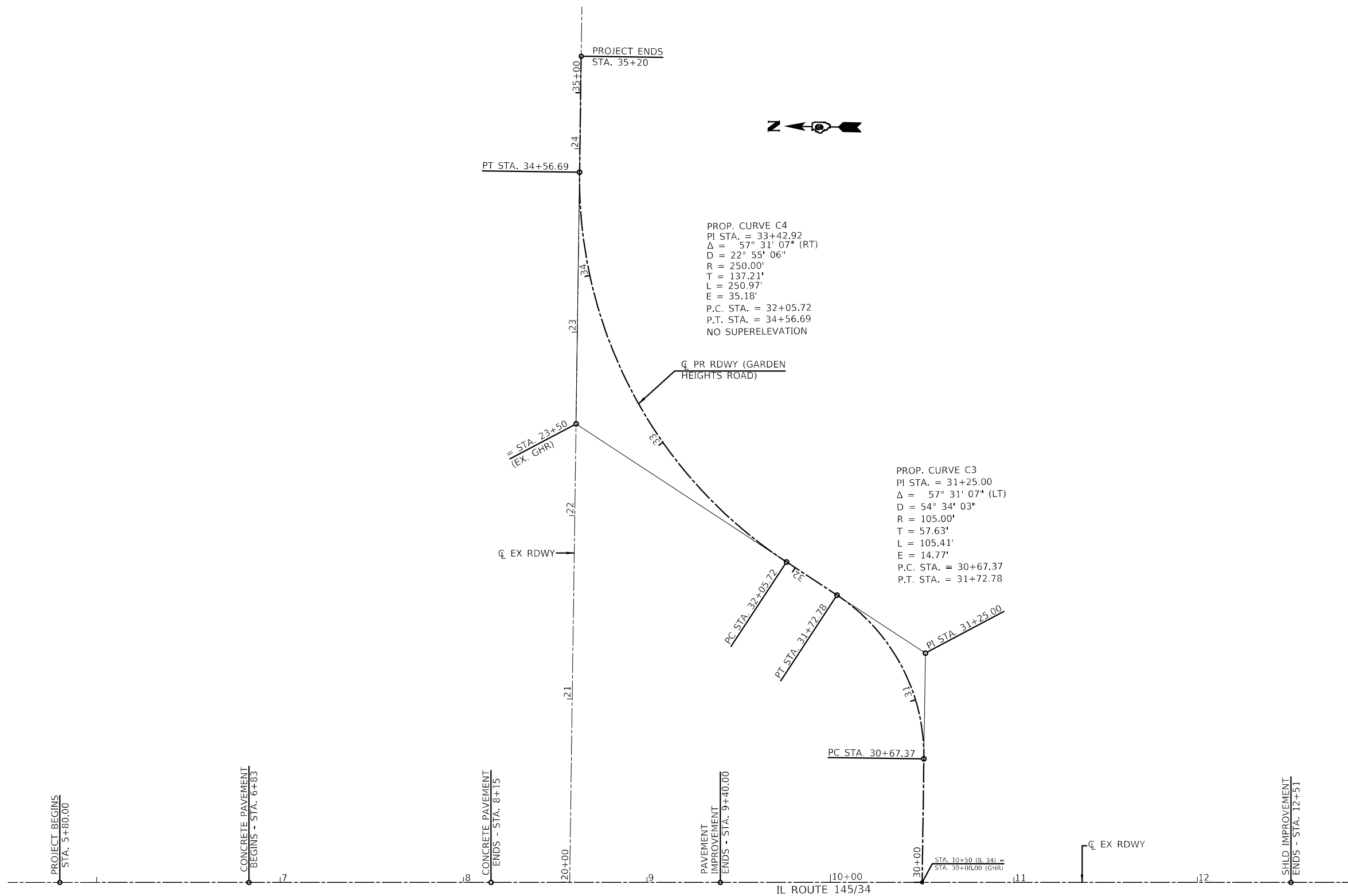
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QUANTITY SCHEDULES			
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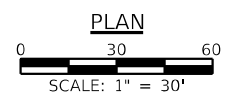


SECTION 22 T.9S., R.6E., 3rd PM



PROP. CURVE C4  
 PI STA. = 33+42.92  
 $\Delta = 57^\circ 31' 07''$  (RT)  
 $D = 22^\circ 55' 06''$   
 $R = 250.00'$   
 $T = 137.21'$   
 $L = 250.97'$   
 $E = 35.18'$   
 P.C. STA. = 32+05.72  
 P.T. STA. = 34+56.69  
 NO SUPERELEVATION

PROP. CURVE C3  
 PI STA. = 31+25.00  
 $\Delta = 57^\circ 31' 07''$  (LT)  
 $D = 54^\circ 34' 03''$   
 $R = 105.00'$   
 $T = 57.63'$   
 $L = 105.41'$   
 $E = 14.77'$   
 P.C. STA. = 30+67.37  
 P.T. STA. = 31+72.78



PLAN



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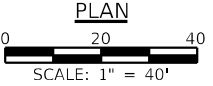
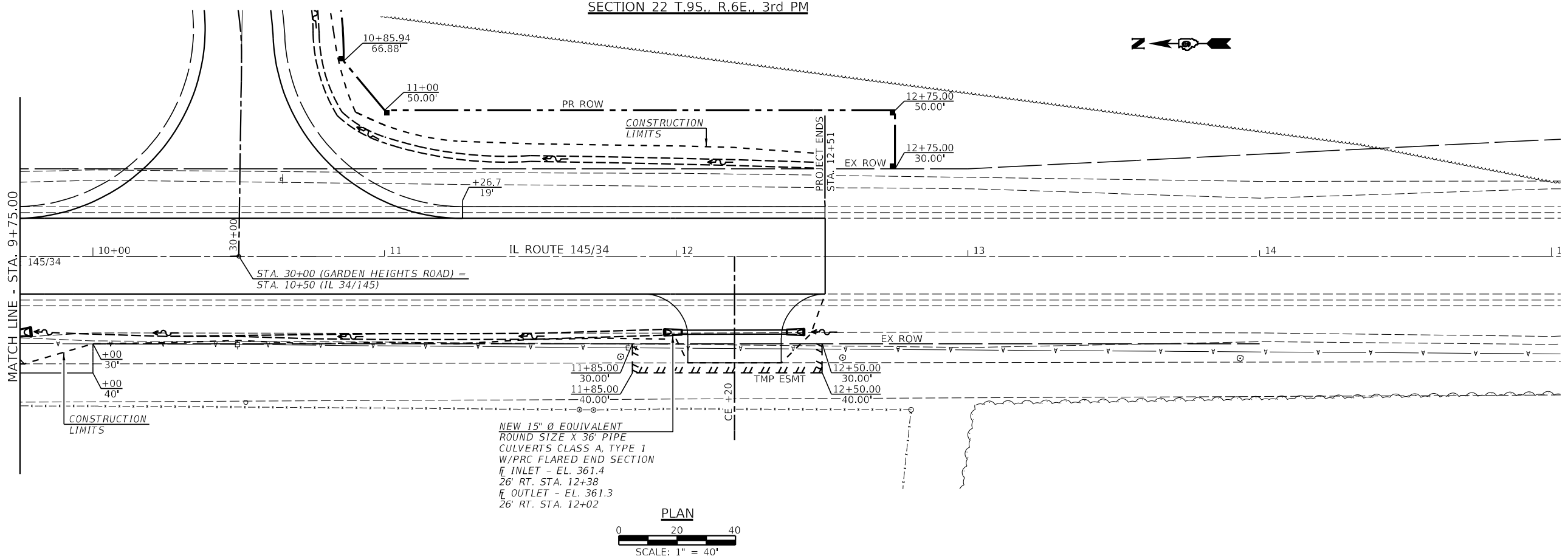
ALIGNMENT PLAN

SCALE: 1" = 30' SHEET NO. \_\_\_ OF \_\_\_ SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
132	1B-2	SALINE	76	17
CONTRACT NO. 78680				
ILLINOIS FED. AID PROJECT				

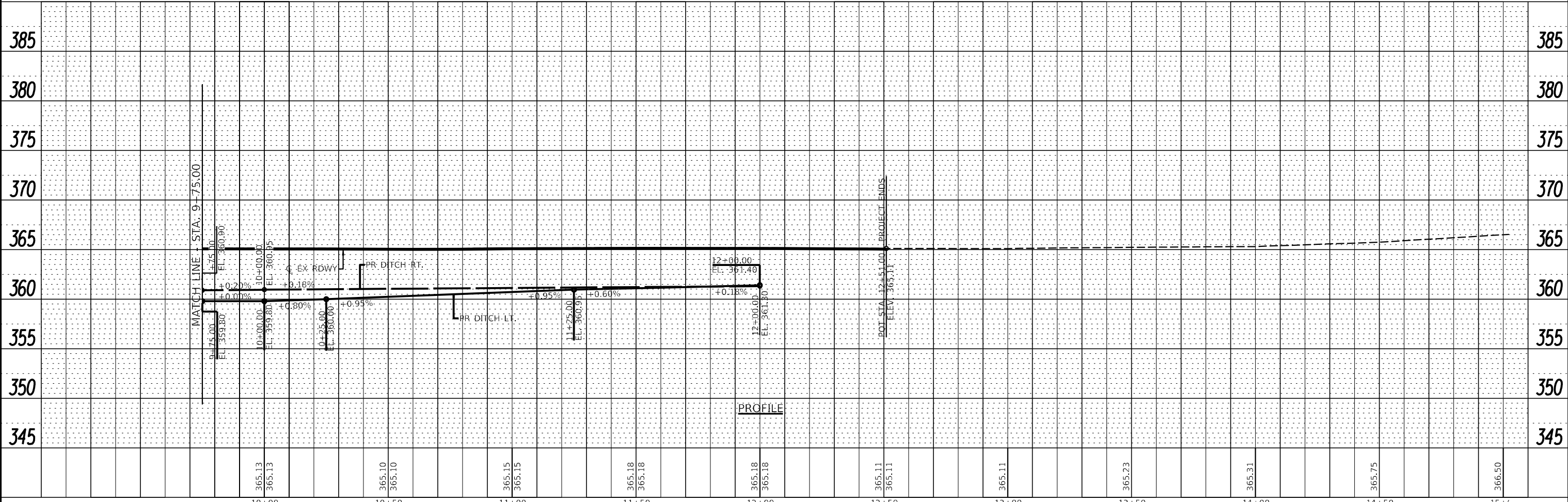


SECTION 22 T.9S., R.6E., 3rd PM



PLAN	SURVEYED	DATE
	PLOTTED	BY
	CHECKED	
	APPROVED	
	FILE NAME	
	NO.	

PROFILE	SURVEYED	DATE
	PLOTTED	BY
	CHECKED	
	APPROVED	
	NOTATIONS	
	NO.	



10+00	10+50	11+00	11+50	12+00	12+50	13+00	13+50	14+00	14+50	15+00
365.13	365.10	365.15	365.18	365.18	365.11	365.11	365.23	365.31	365.75	366.50



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

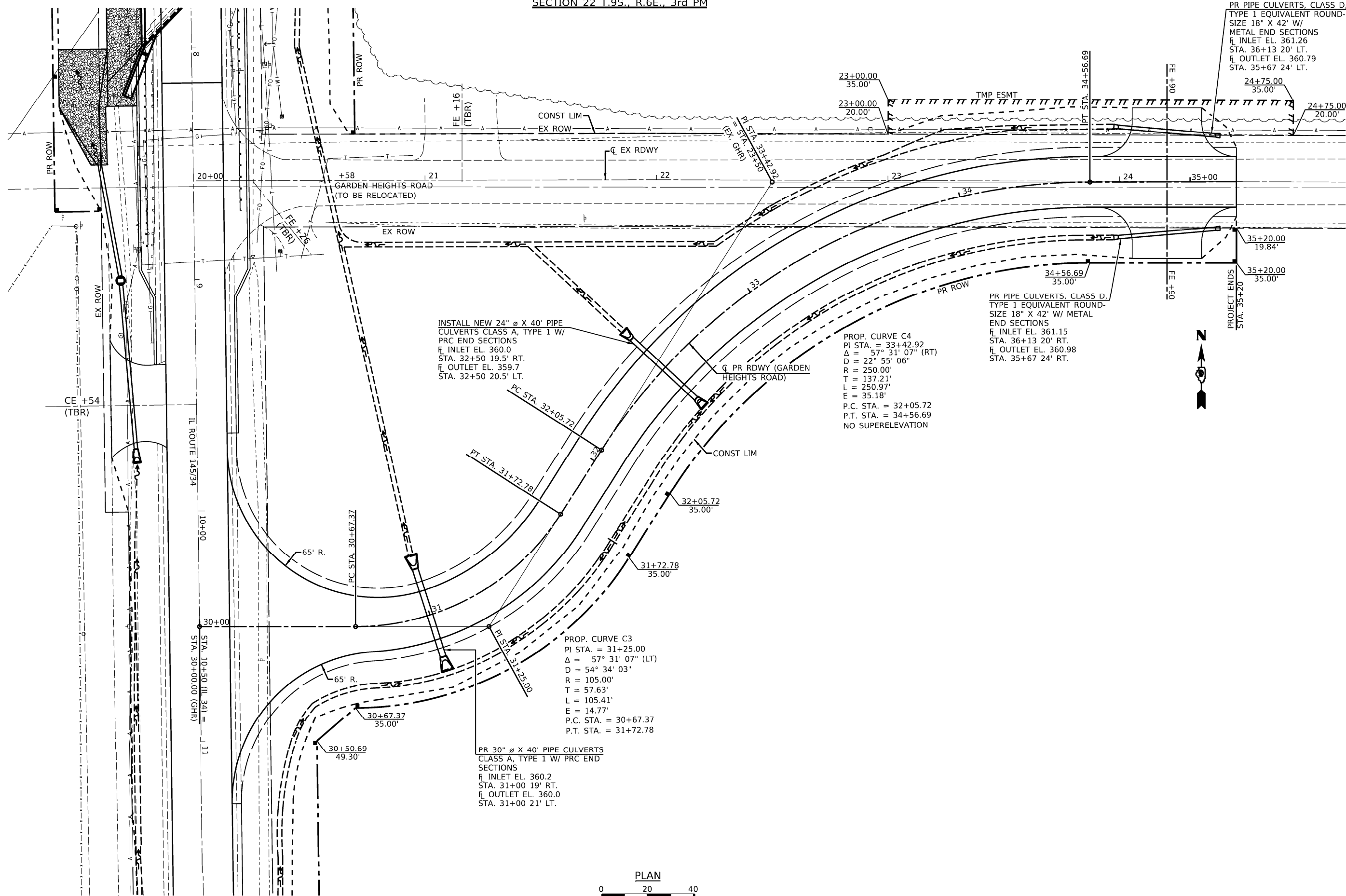
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

PLAN & PROFILE

SCALE: 1"=20' SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
132	1B-2	SALINE	76	19
CONTRACT NO. 78680				
ILLINOIS FED. AID PROJECT				

SECTION 22 T.9S., R.6E., 3rd PM



PLAN  
 0 20 40  
 SCALE: 1" = 20'



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

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

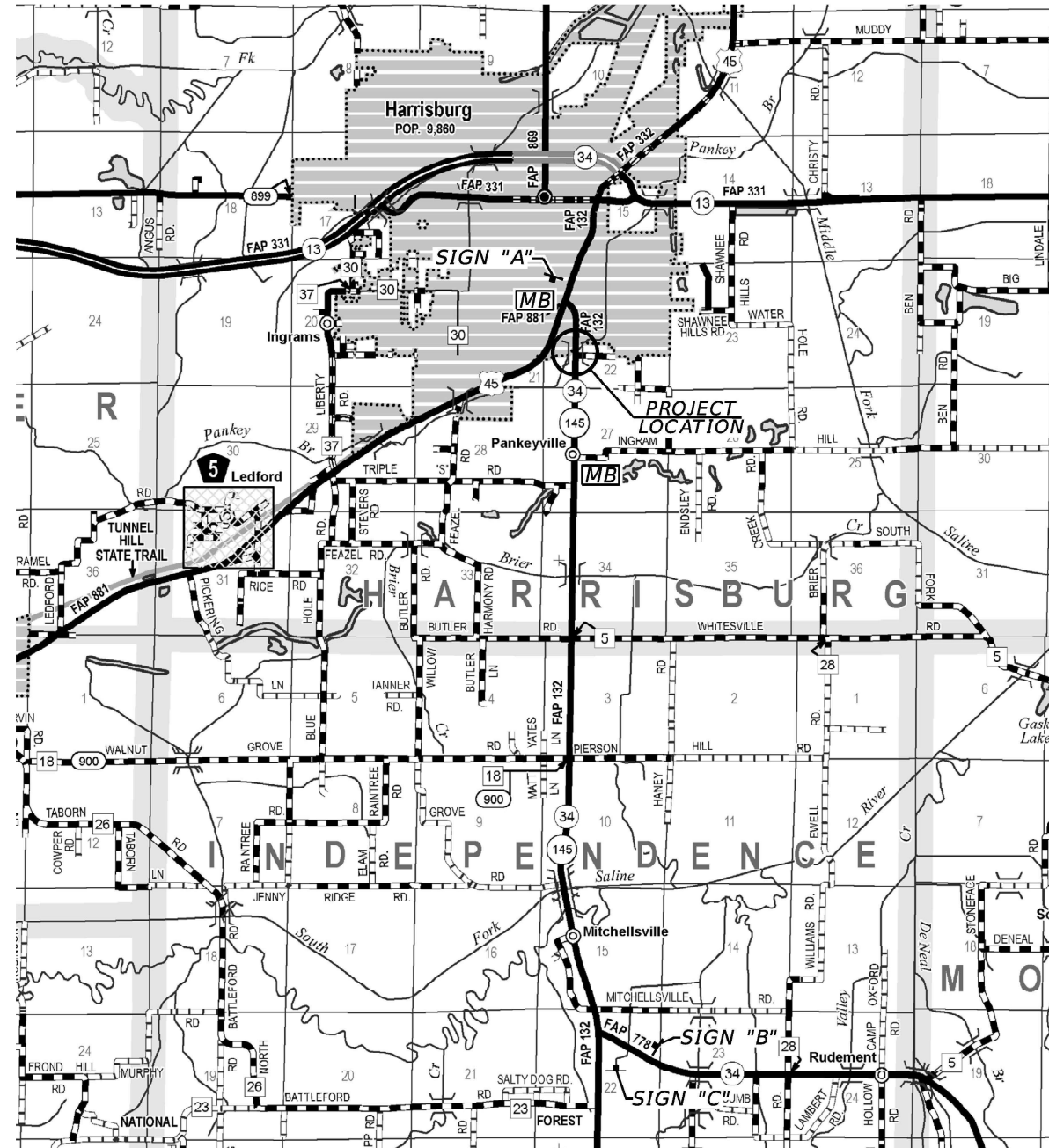
PLAN GARDEN HEIGHTS ROAD	
SCALE: 1" = 20'	SHEET NO. ___ OF ___ SHEETS
STA.	TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
132	1B-2	SALINE	76	20
CONTRACT NO. 78680				
ILLINOIS FED. AID PROJECT				



**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'-0" 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 BRIDGE, PCC PAVEMENT CONNECTOR, APPROACH SLAB, HMA SHOULDERS, GUARDRAIL AND TRAFFIC BARRIER TERMINALS ARE COMPLETED. AFTER COMPLETION OF THE DESIGNATED WORK THE TEMPORARY SIGNALS WILL BE EITHER REMOVED OR TURNED OFF AND COVERED AND THE TEMPORARY CONCRETE BARRIER REMOVED.
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 & C AND THEIR POSTS AND ALL WORK NECESSARY TO INSTALL THEM IS INCLUDED IN THE COST OF TRAFFIC CONTROL AND PROTECTION STANDARD 701321.



**SIGNING PLAN**



**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 NORTH OF THE INTERSECTION OF IL 142 AND DESERTER ROAD (CR 2100N)



**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

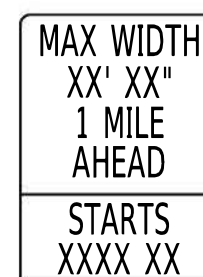
LOCATED SOUTH OF THE INTERSECTION OF IL 142 AND US ROUTE 45



**SIGN C**

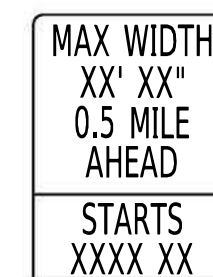
W12-1103 48" X 48" WITH XX' XX" LETTERS BLACK ON ORANGE  
MAX WIDTH & 2 MILES AHEAD  
BLACK ON WHITE WITH M3-1 30X15 AND M1-1100 30X24

LOCATED SOUTH OF THE INTERSECTION OF IL 142 AND US ROUTE 45



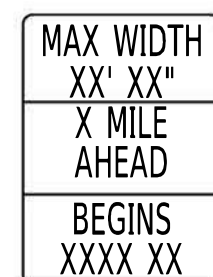
**MESSAGE BOARD**

LOCATED SOUTH OF THE INTERSECTION OF IL 34/145 AND INGRAM ROAD

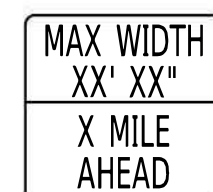


**MESSAGE BOARD**

LOCATED NORTH OF THE INTERSECTION OF IL 34/145 AND US 45



**PRIOR TO JOB**



**DURING JOB**

MESSAGE BOARDS TO BE PLACED TWO WEEKS BEFORE CONSTRUCTION BEGINS



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

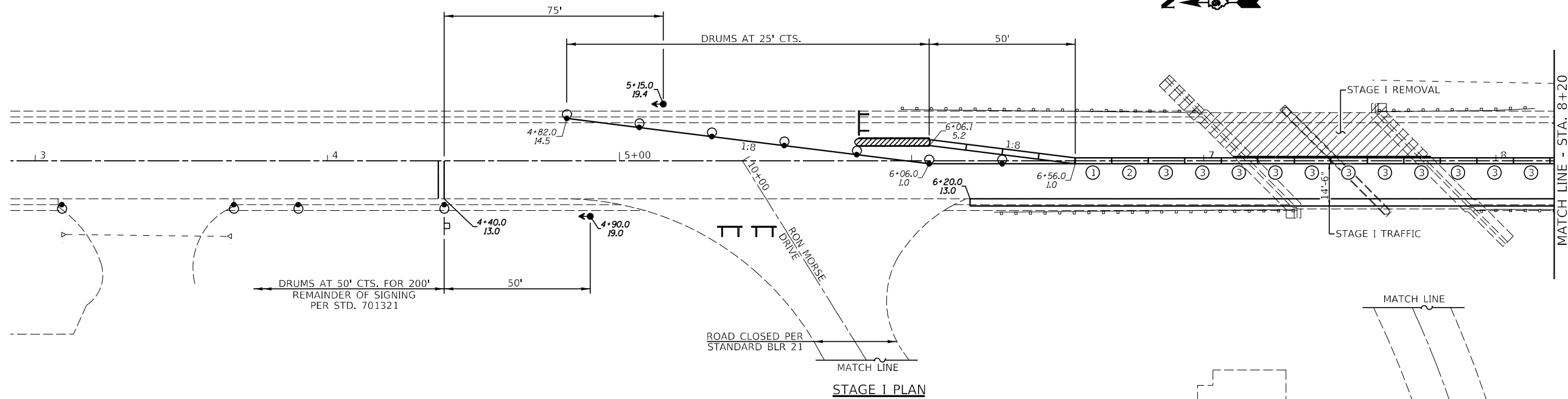
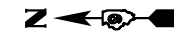
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**WIDTH RESTRICTION SIGNING**

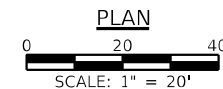
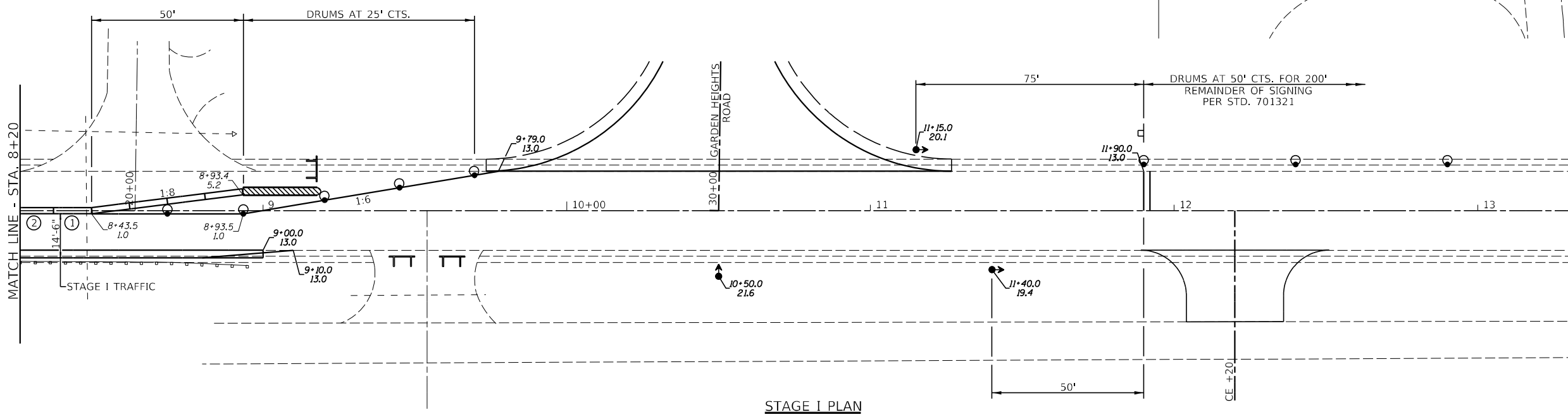
SCALE: \_\_\_\_\_ SHEET NO. \_\_\_ OF \_\_\_ SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
132	1B-2	SALINE	76	22
CONTRACT NO. 78680				
ILLINOIS FED. AID PROJECT				

SECTION 22 T.9S., R.6E., 3rd PM



③ - INDICATES NUMBER OF PINS REQUIRED FOR EACH SECTION - 37 REQUIRED FOR STAGE I



- LEGEND**
- REMOVAL ITEMS
  - SIGN
  - TYPE III BARRICADE
  - DRUM WITH STEADY BURNING LIGHT
  - BARRICADE WITH STEADY BURNING LIGHT
  - TRAFFIC SIGNAL
  - TEMPORARY RUMBLE STRIP
  - INDUCTION LOOP DETECTOR
  - DOUBLE VERTICAL PANEL
  - TYPE C BIDIRECTIONAL REFLECTOR
  - TEMPORARY CONCRETE BARRIER
  - IMPACT ATTENUATOR
  - STEADY BURNING LIGHTS AND DOUBLE VERTICAL PANELS

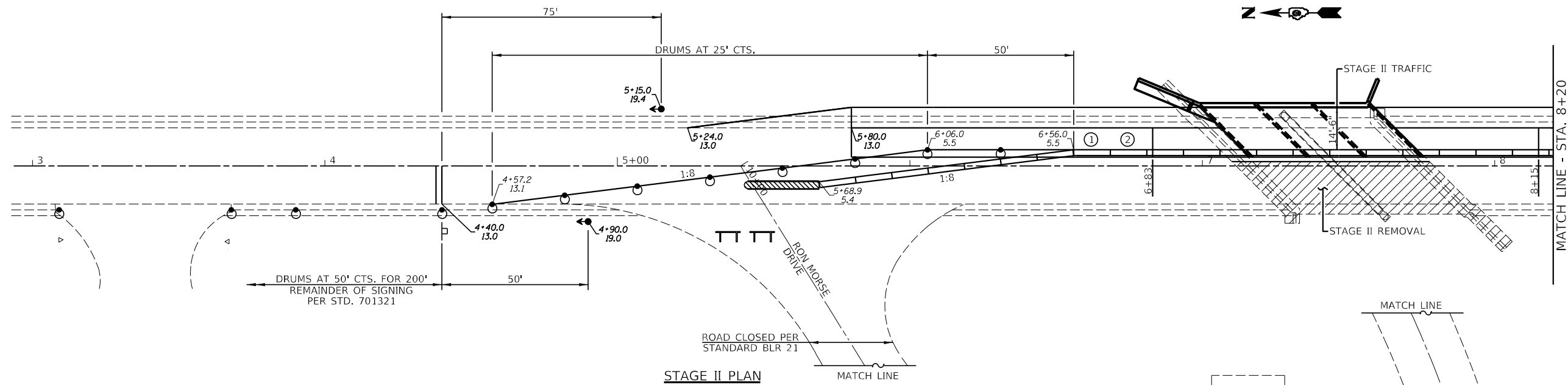


USER NAME =	DESIGNED -	REVISED -
PLOT SCALE =	CHECKED -	REVISED -
PLOT DATE =	DRAWN -	REVISED -
	CHECKED -	REVISED -

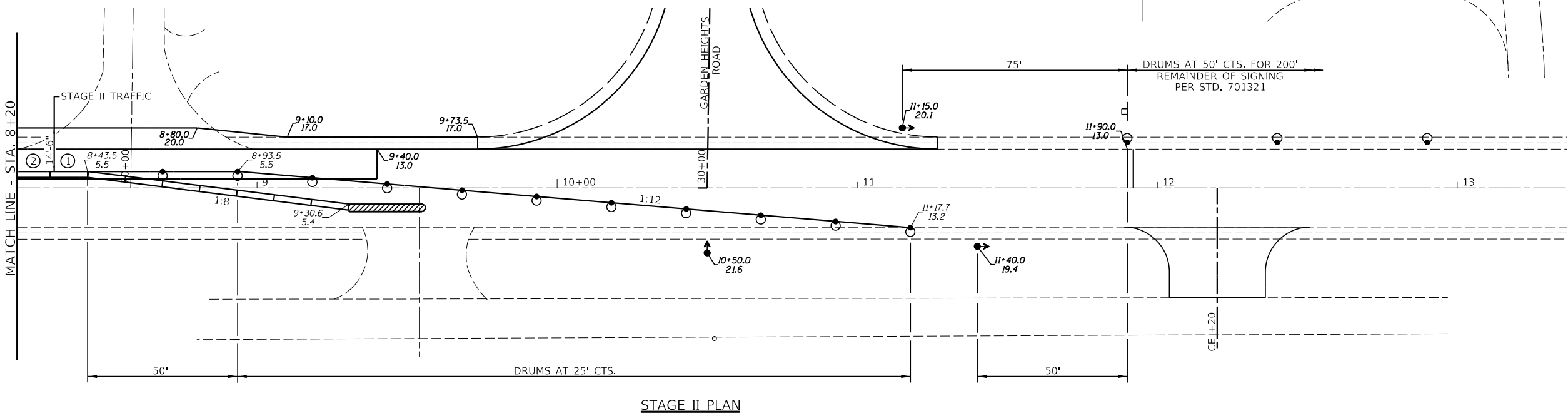
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SCALE: 1" = 20'		SHEET NO. ___ OF ___ SHEETS		STA. TO STA.	
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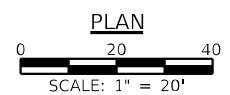
F.A.P. RTE. 132	SECTION 1B-2	COUNTY SALINE	TOTAL SHEETS 76	SHEET NO. 23
CONTRACT NO. 78680				
ILLINOIS FED. AID PROJECT				



③ - INDICATES NUMBER OF PINS REQUIRED FOR EACH SECTION - 6 REQUIRED FOR STAGE II



- LEGEND**
- REMOVAL ITEMS
  - SIGN
  - TYPE III BARRICADE
  - DRUM WITH STEADY BURNING LIGHT
  - BARRICADE WITH STEADY BURNING LIGHT
  - TRAFFIC SIGNAL
  - TEMPORARY RUMBLE STRIP
  - INDUCTION LOOP DETECTOR
  - DOUBLE VERTICAL PANEL
  - TYPE C BIDIRECTIONAL REFLECTOR
  - TEMPORARY CONCRETE BARRIER
  - IMPACT ATTENUATOR
  - STEADY BURNING LIGHTS AND DOUBLE VERTICAL PANELS



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

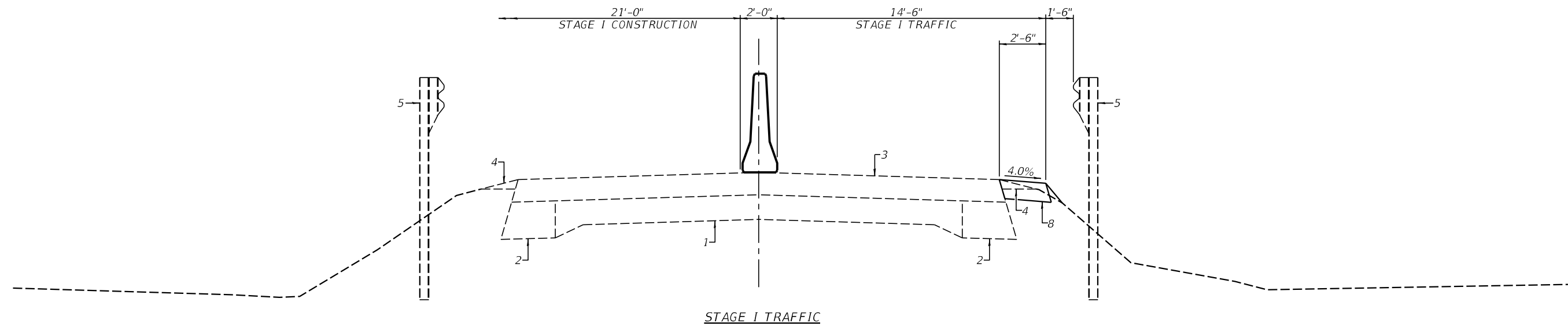
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SCALE: 1" = 20'		SHEET NO. ___ OF ___ SHEETS		STA. TO STA.	
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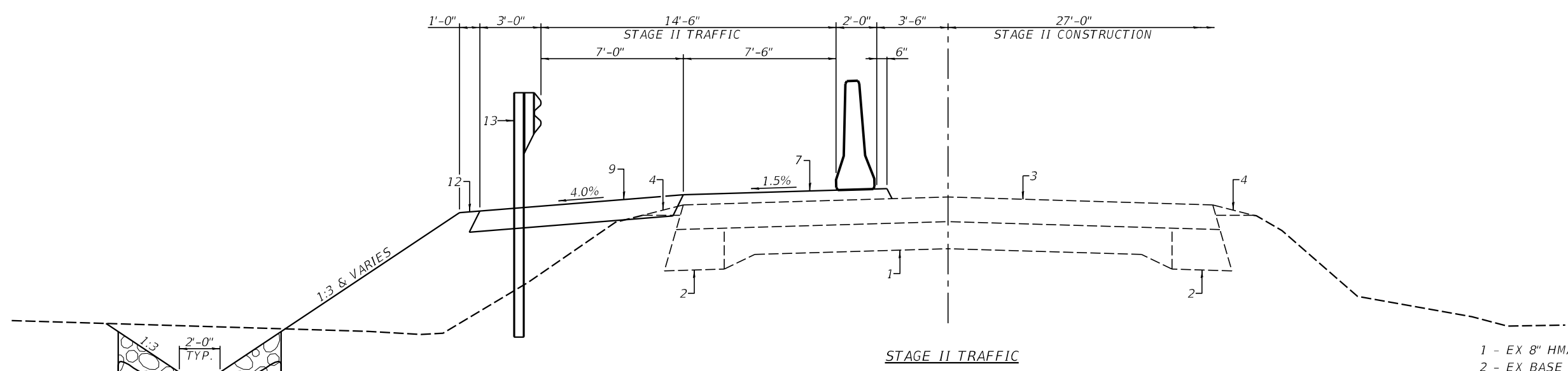
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
132	1B-2	SALINE	76	24
CONTRACT NO. 78680				

ILLINOIS FED. AID PROJECT

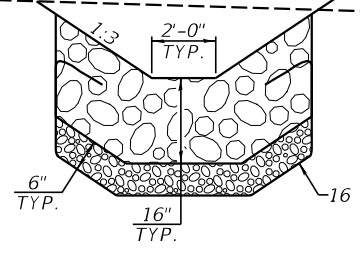




STAGE I TRAFFIC



STAGE II TRAFFIC



LEGEND

- 1 - EX 8" HMA BASE COURSE ON 4" SUBBASE
- 2 - EX BASE COURSE WIDENING ±9"
- 3 - EX HMA OVERLAYS ±7 1/4"
- 4 - EX AGG WEDGE SHOULDER
- 5 - EX GUARDRAIL
- 6 - PR HOT MIX ASPHALT SURFACE COURSE 1-1/2"
- 7 - PR HOT MIX ASPHALT BINDER COURSE (VARIABLE DEPTH)
- 7A - PR HOT MIX ASPHALT BINDER COURSE 2-1/2"
- 8 - PR HOT MIX ASPHALT BASE COURSE WIDENING 10"
- 9 - PR HOT MIX ASPHALT SHOULDERS 10"
- 10 - PR AGGREGATE BASE COURSE, TYPE A 8"
- 11 - PR AGGREGATE SHOULDERS, TYPE B 6"
- 12 - PR EARTH SHOULDER
- 13 - PR GUARDRAIL
- 14 - PR PAINT PAVEMENT MARKING LINE - 4"
- 15 - PR GRADING AND SHAPING DITCH
- 16 - PR STONE RIPRAP CLASS A4 (16" W/ 6" BEDDING)
- 17 - PR PORTLAND CEMENT CONCRETE PAVEMENT 10" (JOINTED)
- 18 - PR PORTLAND CEMENT CONCRETE SHOULDERS 10"



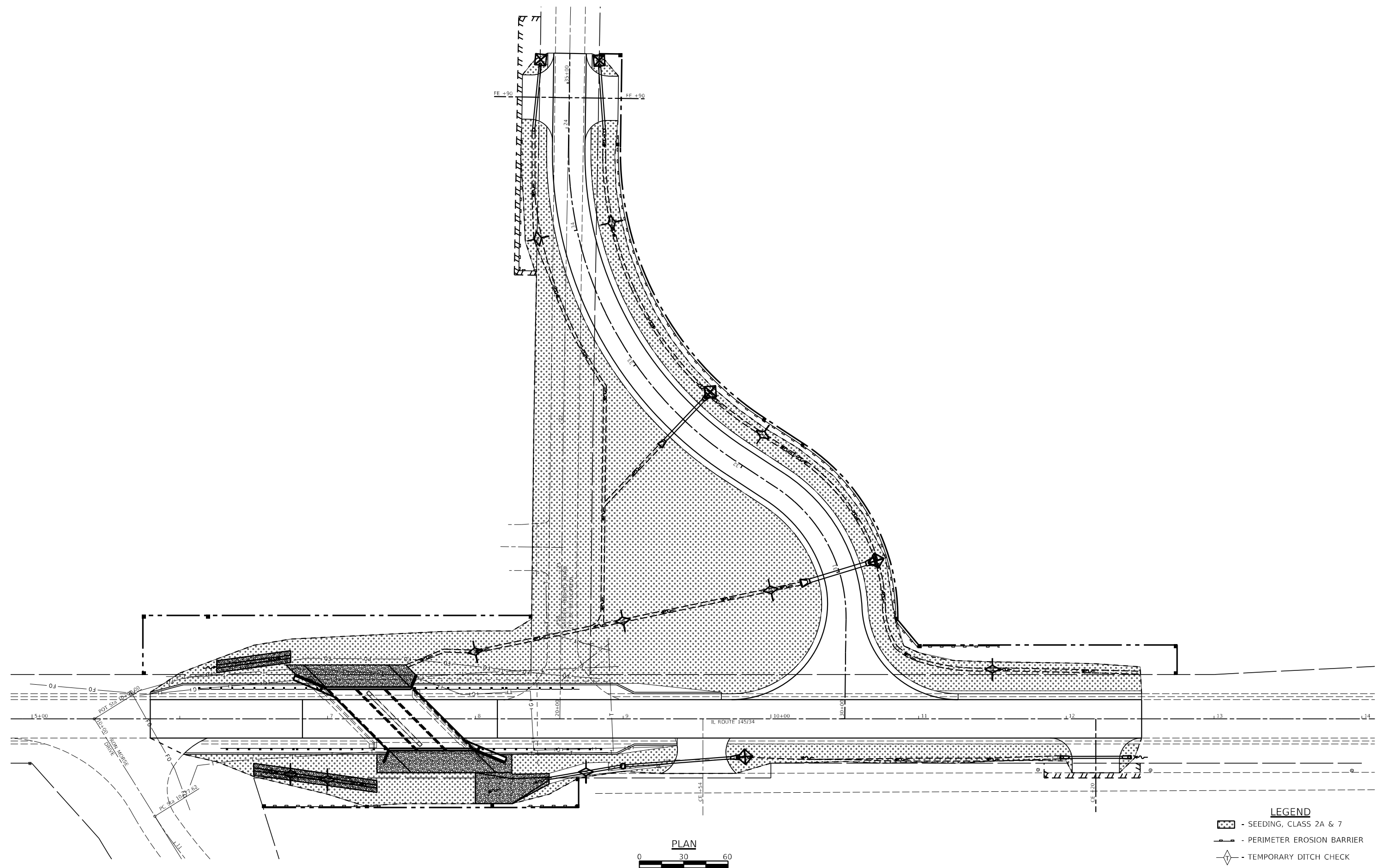
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CHECKED -	REVISED -	
PLOT SCALE =	DRAWN -	REVISED -
PLOT DATE =	CHECKED -	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

ROADWAY STAGING TYPICAL CROSS SECTIONS

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
132	1B-2	SALINE	76	25
CONTRACT NO. 78680				
ILLINOIS FED. AID PROJECT				



- LEGEND**
- SEEDING, CLASS 2A & 7
  - PERIMETER EROSION BARRIER
  - TEMPORARY DITCH CHECK
  - INLET PIPE PROTECTION

PLAN  
 0 30 60  
 SCALE: 1" = 30'



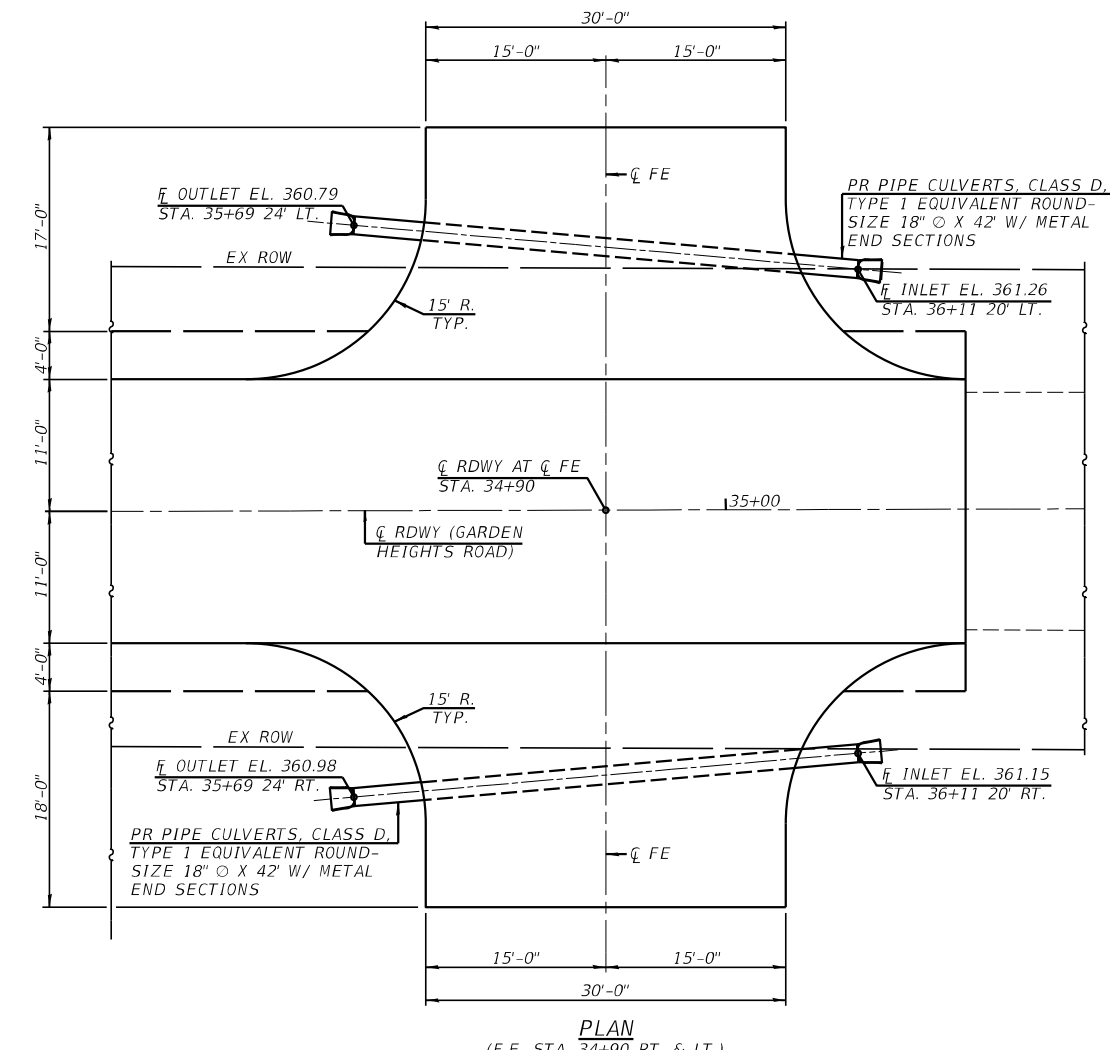
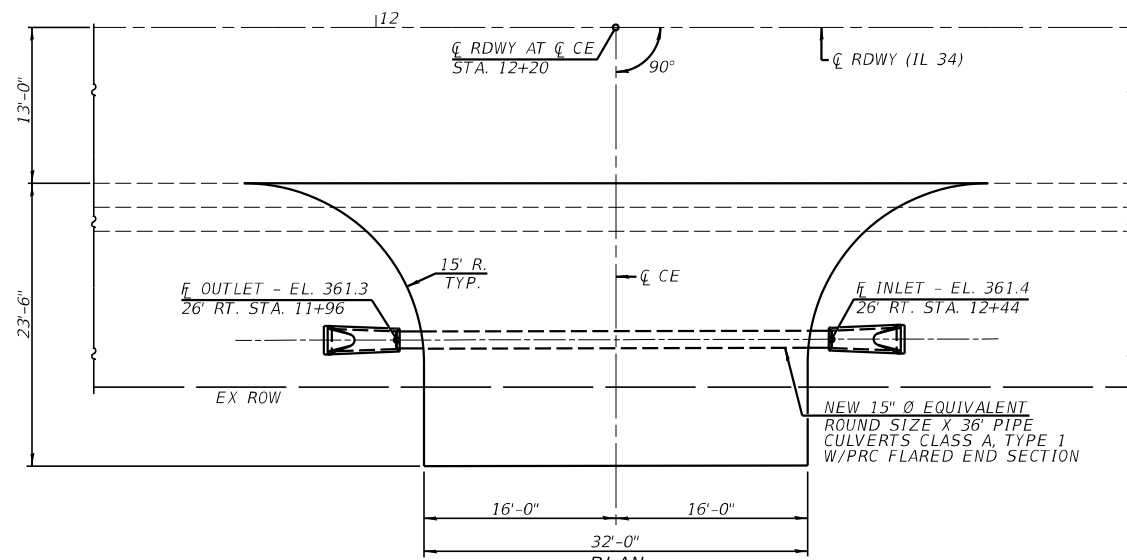
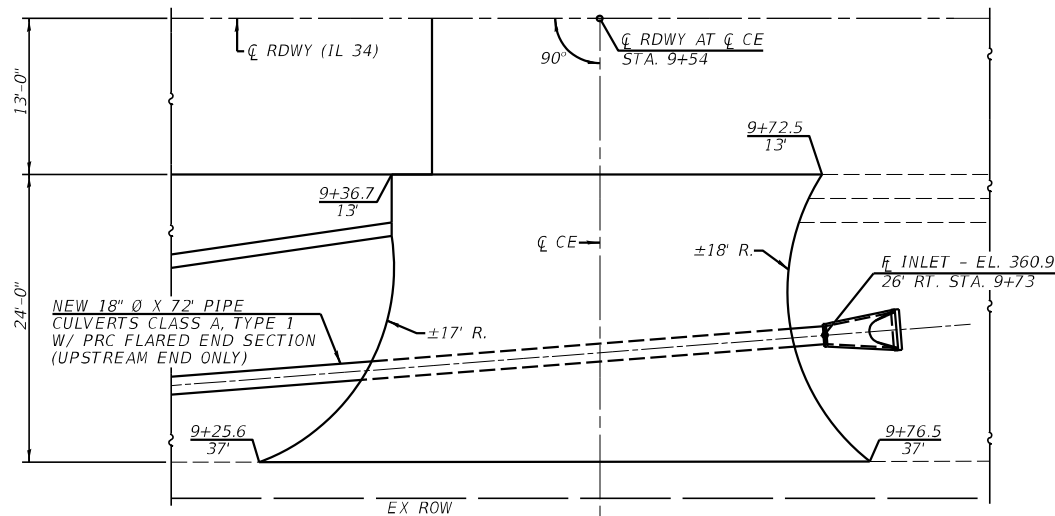
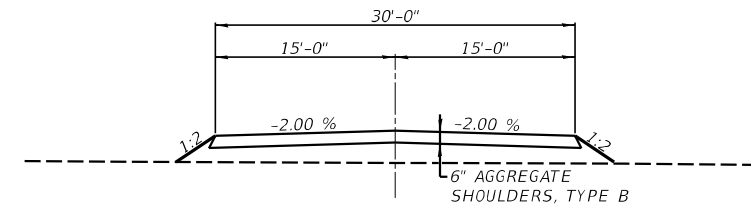
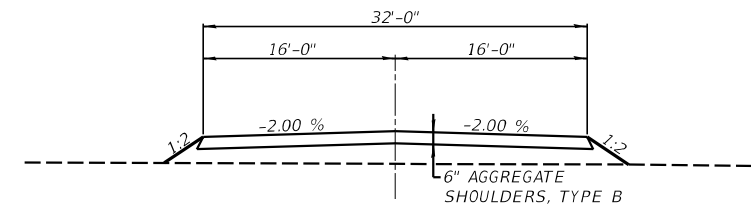
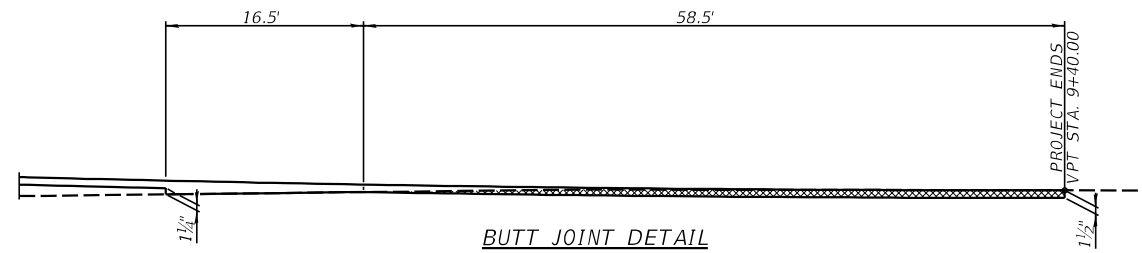
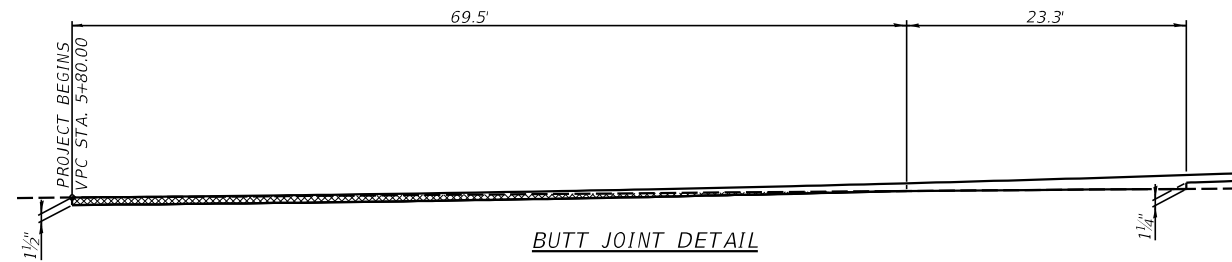
USER NAME =	DESIGNED -	REVISED -
	CHECKED -	REVISED -
PLOT SCALE =	DRAWN -	REVISED -
PLOT DATE =	CHECKED -	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**EROSION CONTROL PLAN**

SCALE: 1" = 30' SHEET NO. \_\_\_ OF \_\_\_ SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
132	1B-2	SALINE	76	26
<b>CONTRACT NO. 78680</b>				
ILLINOIS FED. AID PROJECT				



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

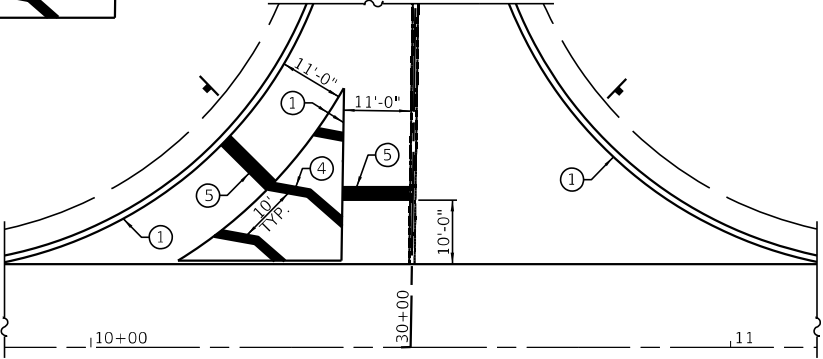
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>ROADWAY DETAILS</b>	
SCALE:	SHEET NO. ___ OF ___ SHEETS STA. TO STA.

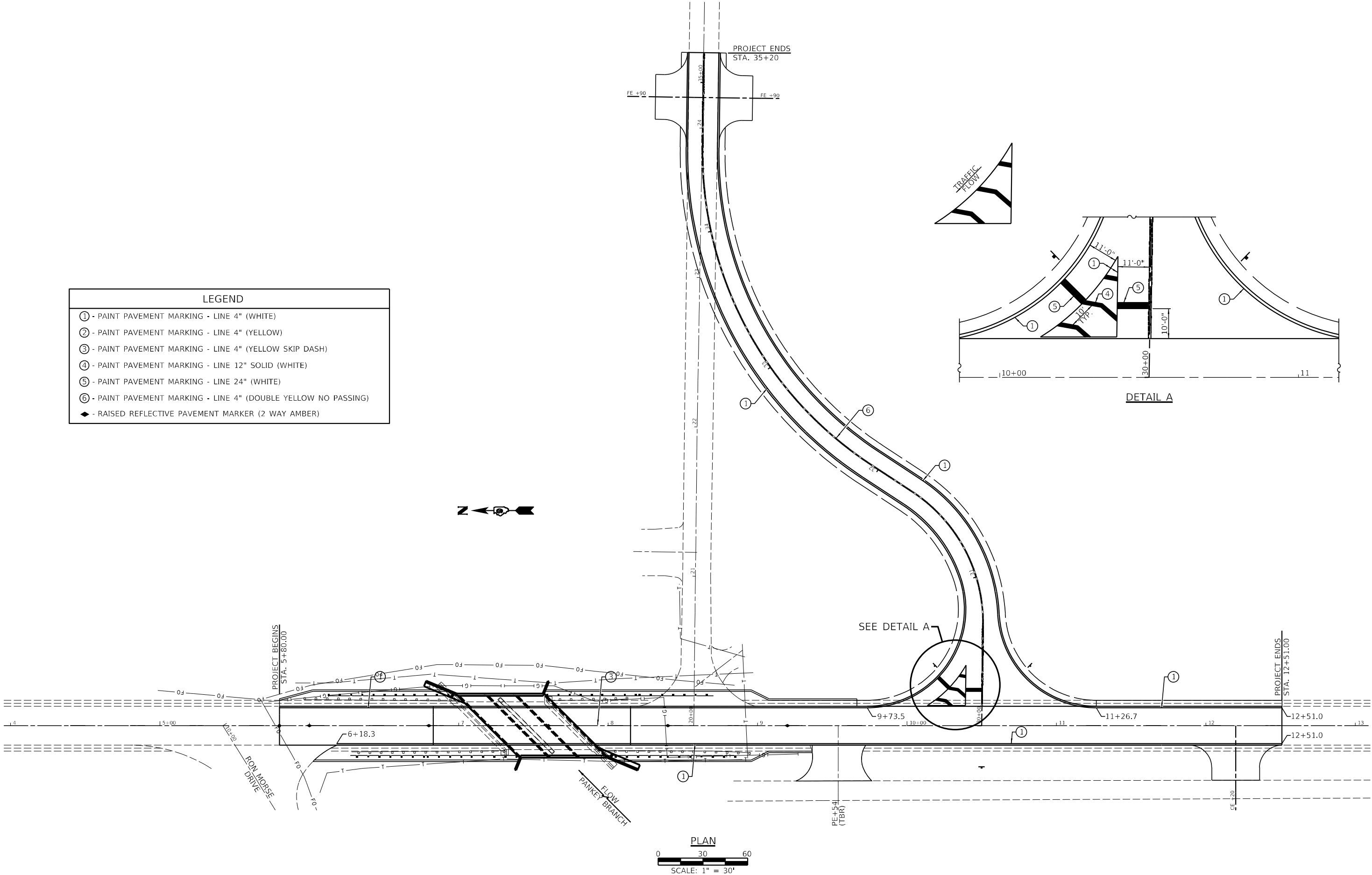
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
132	1B-2	SALINE	76	27
CONTRACT NO. 78680				
ILLINOIS FED. AID PROJECT				

LEGEND	
①	- PAINT PAVEMENT MARKING - LINE 4" (WHITE)
②	- PAINT PAVEMENT MARKING - LINE 4" (YELLOW)
③	- PAINT PAVEMENT MARKING - LINE 4" (YELLOW SKIP DASH)
④	- PAINT PAVEMENT MARKING - LINE 12" SOLID (WHITE)
⑤	- PAINT PAVEMENT MARKING - LINE 24" (WHITE)
⑥	- PAINT PAVEMENT MARKING - LINE 4" (DOUBLE YELLOW NO PASSING)
◆	- RAISED REFLECTIVE PAVEMENT MARKER (2 WAY AMBER)

PROJECT ENDS  
STA. 35+20



DETAIL A



PLAN  
0 30 60  
SCALE: 1" = 30'



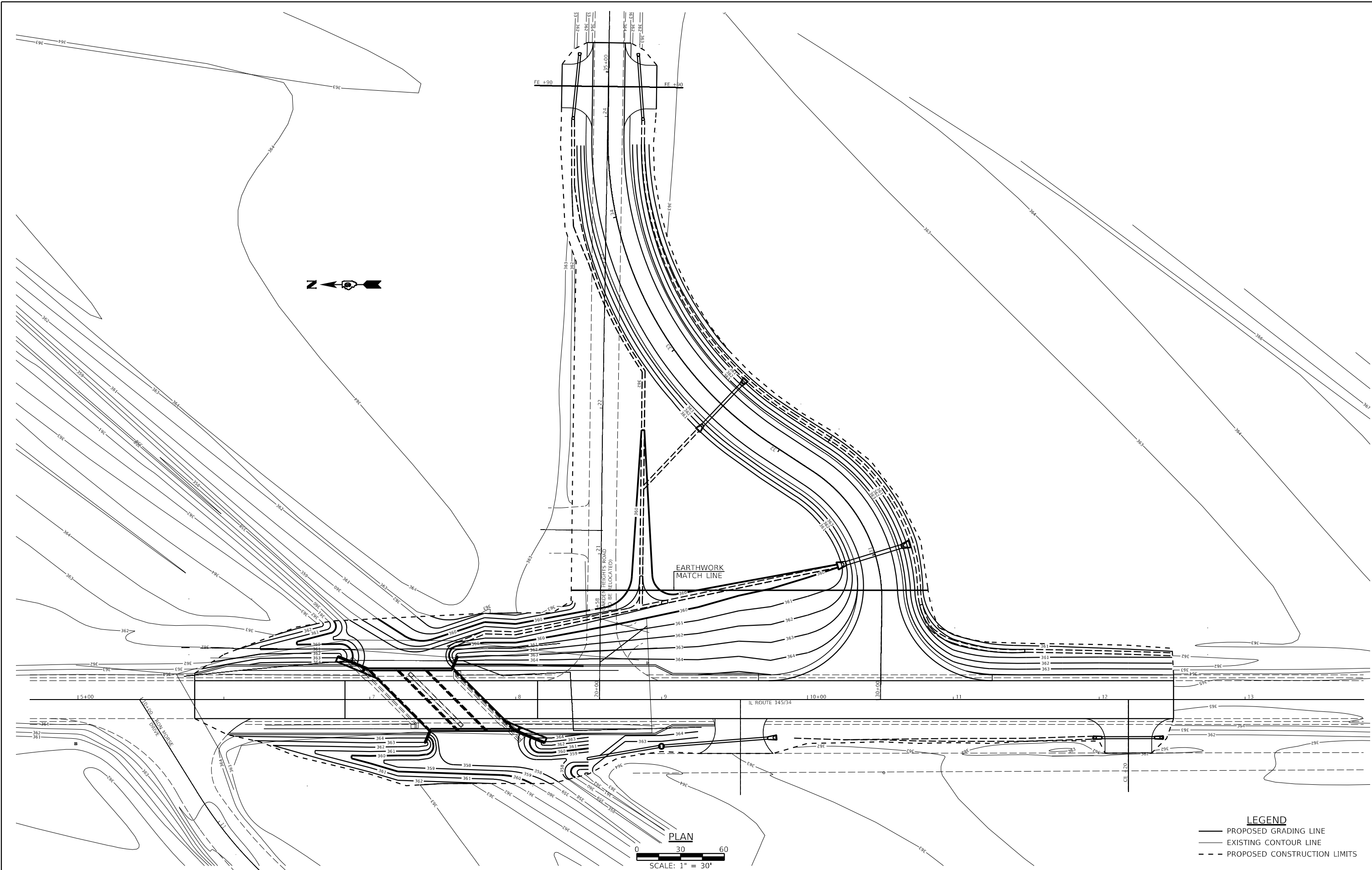
USER NAME =	DESIGNED -	REVISED -
CHECKED -	REVISOR -	DATE -
PLOT SCALE =	DRAWN -	REVISED -
PLOT DATE =	CHECKED -	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING PLAN

SCALE: 1" = 30' SHEET NO. \_\_\_ OF \_\_\_ SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
132	1B-2	SALINE	76	28
CONTRACT NO. 78680				
ILLINOIS FED. AID PROJECT				



**LEGEND**

- PROPOSED GRADING LINE
- EXISTING CONTOUR LINE
- - - PROPOSED CONSTRUCTION LIMITS



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

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**GRADING PLAN**

SCALE: 1" = 30'    SHEET NO. \_\_\_ OF \_\_\_ SHEETS    STA.    TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
132	1B-2	SALINE	76	29
<b>CONTRACT NO. 78680</b>				
ILLINOIS FED. AID PROJECT				

QUARTER QUARTER SECTION LINE  
 CL FAP 132 (IL 34/145)

PARCEL#	OWNER	PURPOSE	ACREAGE
171	CV PARKER LAND TRUST	ROW	0.095 ACRES/
172	JOHNSON TRUST	ROW/TE	0.005/0.015 ACRES/
173	LINDA JOYCE WITT	ROW	1.044 ACRES/
174	CV PARKER LAND TRUST	ROW/TE	0.182/0.060 ACRES/
175	ROBERT C. WILSON	ROW	0.059 ACRES/

NW QUARTER SW QUARTER  
 SECTION 22  
 T. 9 S., R. 6 E., 3RD P.M.

EXIST. CURVE TR205W\_4  
 PI STA. = 1+21.02  
 $\Delta = 23^\circ 00' 00''$  (LT)  
 D = 23° 00' 04"  
 R = 249.10'  
 T = 50.68'  
 L = 100.00'  
 E = 5.10'  
 P.C. STA. = 0+70.34  
 P.T. STA. = 1+70.34

EXIST. CURVE TR205W\_3  
 PI STA. = 0+49.29  
 $\Delta = 29^\circ 07' 36''$  (LT)  
 D = 67° 39' 37"  
 R = 84.68'  
 T = 22.00'  
 L = 43.05'  
 E = 2.81'  
 P.C. STA. = 0+27.29  
 P.T. STA. = 0+70.34

NE QUARTER SW QUARTER  
 SECTION 22  
 T. 9 S., R. 6 E., 3RD P.M.

QUARTER QUARTER SECTION LINE

QUARTER QUARTER SECTION LINE

SW QUARTER SW QUARTER  
 SECTION 22  
 T. 9 S., R. 6 E., 3RD P.M.

EXIST. CURVE TR205W\_7  
 PI STA. = 4+41.20  
 $\Delta = 52^\circ 39' 30''$  (RT)  
 D = 16° 07' 41"  
 R = 355.25'  
 T = 175.80'  
 L = 326.50'  
 E = 41.12'  
 P.C. STA. = 2+65.40  
 P.T. STA. = 5+91.90

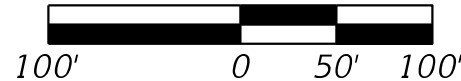
PROP. CURVE PRTR205E\_3  
 PI STA. = 31+25.00  
 $\Delta = 57^\circ 31' 07''$  (LT)  
 D = 54° 34' 03"  
 R = 105.00'  
 T = 57.63'  
 L = 105.41'  
 E = 14.77'  
 P.C. STA. = 30+67.37  
 P.T. STA. = 31+72.78

SE QUARTER SW QUARTER  
 SECTION 22  
 T. 9 S., R. 6 E., 3RD P.M.

PROP. CURVE PRTR205E\_6  
 PI STA. = 33+42.92  
 $\Delta = 57^\circ 31' 07''$  (RT)  
 D = 22° 55' 06"  
 R = 250.00'  
 T = 137.21'  
 L = 250.97'  
 E = 35.18'  
 P.C. STA. = 32+05.72  
 P.T. STA. = 34+56.69



SCALE



CL FAP 132 (IL 34/145)  
 QUARTER QUARTER SECTION LINE



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

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

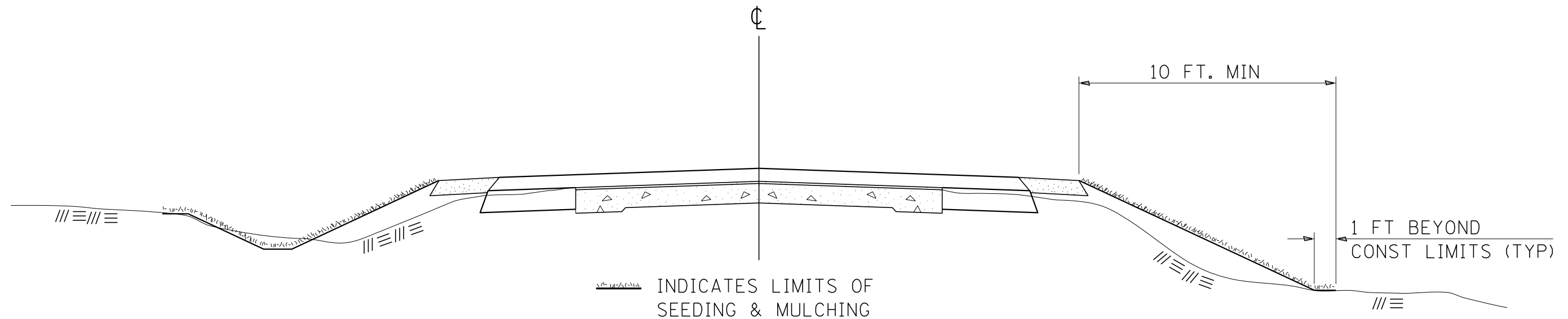
R-99-007-19  
 ROW PLAN

SCALE: 1" = 50' SHEET NO. OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
132	1B-2	SALINE	76	30
CONTRACT NO. 78680				

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.

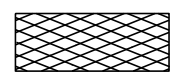
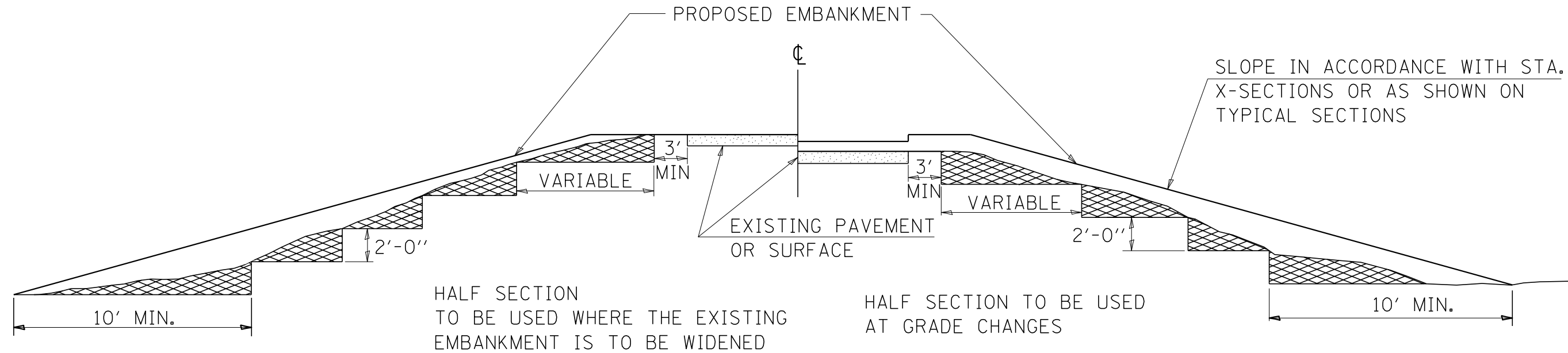
### REVISIONS

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

STD. 9-12

 Veenstra & Kimm, Inc. Springfield, IL. Phone: (217)544-8033	USER NAME = ___	DESIGNED - ___	REVISED - ___	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b>	<b>DISTRICT STANDARDS</b>			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = ___	DRAWN - ___	REVISED - ___		SCALE:	SHEET NO. ___ OF ___ SHEETS	STA. TO STA.	132	1B-2	SALINE	76	31
PLOT DATE = ___	CHECKED - ___	REVISED - ___					CONTRACT NO. 78680			ILLINOIS FED. AID PROJECT		

# TYPICAL CROSS SECTION SHOWING STEP CONSTRUCTION ON EXISTING FILL



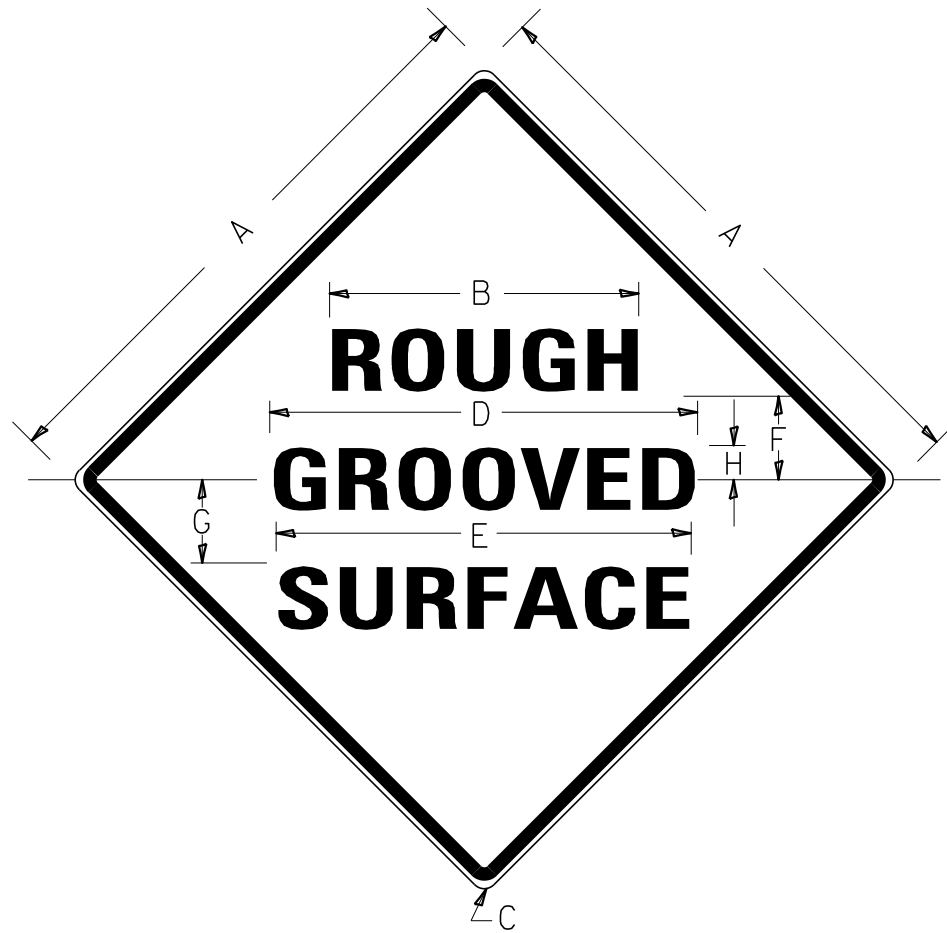
MATERIAL TO BE REMOVED AND REPLACED IN THE EMBANKMENT IN ACCORDANCE WITH ART. 205.04 OF THE STANDARD SPECIFICATION. COST TO BE INCLUDED IN THE VARIOUS ITEMS OF EXCAVATION AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED BECAUSE OF THIS WORK.

REVISIONS	
REDRAWN	2-15-89
REVISED	8-15-94
CHECKED	6-3-99
RESIZED	5-7-08
REVIEWED	5-17-13

STD. 9-16



# ILLINOIS STANDARD



## COLORS:

LEGEND AND BORDER- BLACK NON-REFLECTORIZED  
 BACKGROUND- ORANGE REFLECTORIZED

SIGN SIZE	DIMENSIONS							
	A	B	C	D	E	F	G	H
48X48	48.0	24.1	3.0	34.0	33.0	6.0	13.0	3.5

SIGN SIZE	SERIES LINES			MARGIN	BORDER	BLANK STD.
	1	2	3			
48X48	7C	7C	7C	0.8	1.2	B4-48D

ALL DIMENSIONS IN INCHES

## NOTES:

PRIOR TO ALLOWING TRAFFIC ON ANY PORTION OF THE ROADWAY THAT HAS BEEN COLDMILLED, THE CONTRACTOR SHALL HAVE ERECTED "ROUGH GROOVED SURFACE" SIGNS THAT CONFORM TO THE ABOVE DETAILS. A MINIMUM OF ONE SIGN AT EACH END OF THE IMPROVEMENT WILL BE REQUIRED. THE CONTRACTOR SHALL MAINTAIN THE "ROUGH GROOVED SURFACE" SIGNS UNTIL THE COLDMILLED SURFACE IS COVERED WITH LEVELING BINDER OR SURFACE COURSE.

IF AT ANY TIME THE SIGNS ARE IN PLACE BUT NOT APPLICABLE, THEY SHALL BE TURNED FROM THE VIEW OF MOTORISTS OR COVERED AS DIRECTED BY THE ENGINEER.

THE COST OF FURNISHING, ERECTING, MAINTAINING, AND REMOVING THE REQUIRED SIGNS SHALL BE INCLUDED IN THE CONTRACT.

### REVISIONS

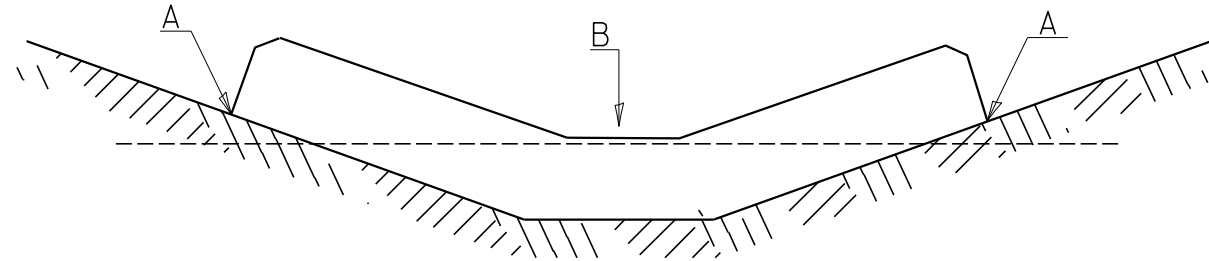
REDRAWN	2-15-89
REVISED	4-6-93
REVISED	3-27-08
REVIEWED	5-17-13

STD. 9-39

 Veenstra & Kimm, Inc. Springfield, IL. Phone: (217)544-8033	USER NAME = ___	DESIGNED - ___	REVISED - ___	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b>	<b>DISTRICT STANDARDS</b>			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = ___	DRAWN - ___	REVISED - ___		SCALE:	SHEET NO. ___ OF ___ SHEETS	STA. TO STA.	132	1B-2	SALINE	76	33
PLOT DATE = ___	CHECKED - ___	REVISED - ___					CONTRACT NO. 78680					
ILLINOIS FED. AID PROJECT												

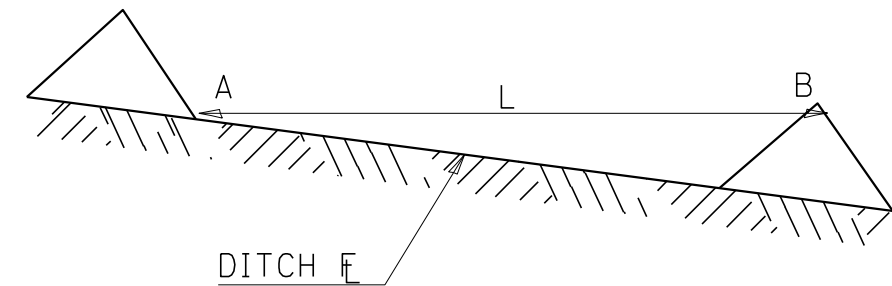
# TEMPORARY DITCH CHECKS

## 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

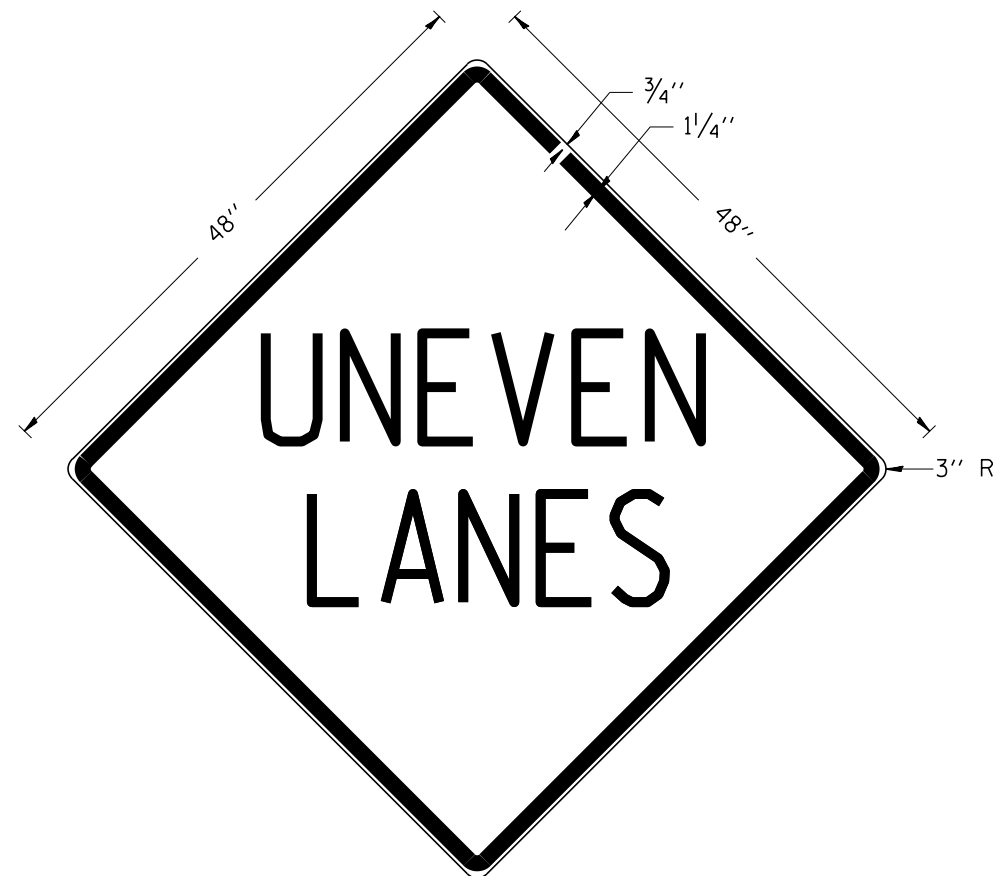
### REVISIONS

DRAWN	9-01-99
REVISED	10-3-01
RESIZED	5-8-08
REVISED	05-04-10
REVIEWED	5-17-13

STD. 9-108

# UNEVEN LANES SIGN

W8-11 (48'' x 48'')



**COLORS:**

LEGEND AND BORDER - BLACK NON-REFLECTORIZED  
 BACKGROUND - ORANGE REFLECTORIZED

**NOTE:** PRIOR TO ALLOWING TRAFFIC ON ANY PORTION OF THE ROADWAY THAT HAS BEEN COLDMILLED OR BEFORE RESURFACING OPERATIONS BEGIN, THE CONTRACTOR SHALL HAVE ERECTED "UNEVEN PAVEMENT" SIGNS THAT CONFORM TO THE ABOVE DETAILS. A MINIMUM OF ONE SIGN AT EACH END OF THE IMPROVEMENT WILL BE REQUIRED. THE CONTRACTOR SHALL MAINTAIN THE "UNEVEN PAVEMENT" SIGNS UNTIL THE RESURFACING OPERATIONS ARE COMPLETED.

IF AT ANY TIME THE SIGNS ARE IN PLACE BUT NOT APPLICABLE, THEY SHALL BE TURNED FROM THE VIEW OF MOTORISTS OR COVERED AS DIRECTED BY THE ENGINEER.

THE COST OF FURNISHING, ERECTING, MAINTAINING, AND REMOVING THE REQUIRED SIGNS SHALL BE INCLUDED IN THE CONTRACT.

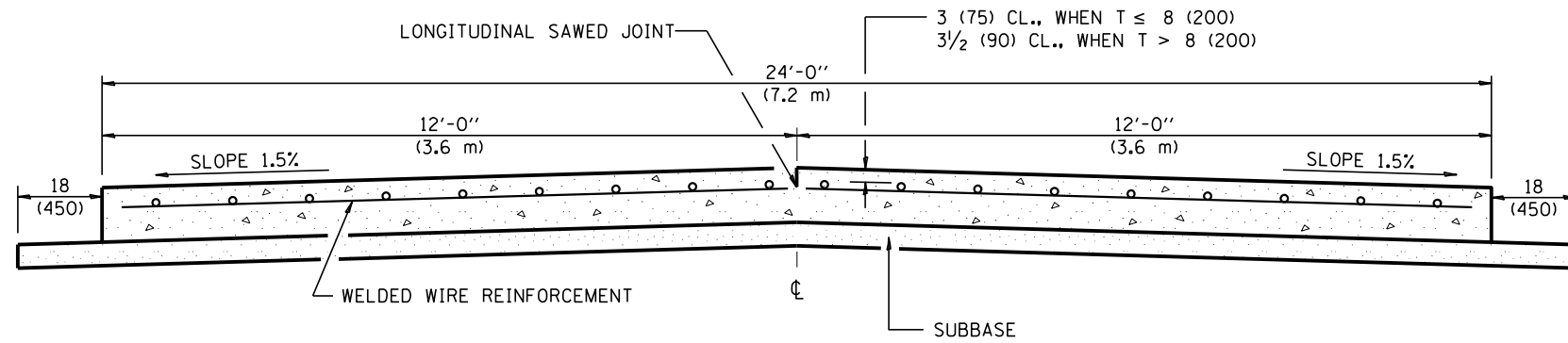
**REVISIONS**

DRAWN	2-15-89
REVISED	4-06-93
REDESIGNED	7-23-04
RESIZED	5-08-08
REVIEWED	5-17-13

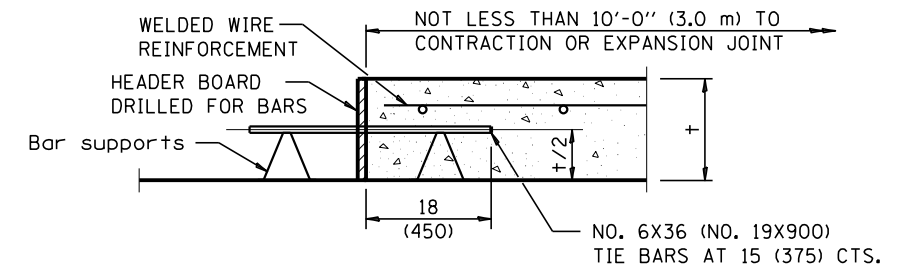
STD. 9-41

 Veenstra & Kimm, Inc. Springfield, IL. Phone: (217)544-8033	USER NAME = ___	DESIGNED - ___	REVISED - ___	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b>	<b>DISTRICT STANDARDS</b>			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = ___	DRAWN - ___	REVISED - ___		REVISED - ___	SCALE:	SHEET NO. ___ OF ___ SHEETS	STA. TO STA.	132	1B-2	SALINE	76
PLOT DATE = ___	CHECKED - ___	REVISED - ___	REVISED - ___				CONTRACT NO. 78680			ILLINOIS FED. AID PROJECT		

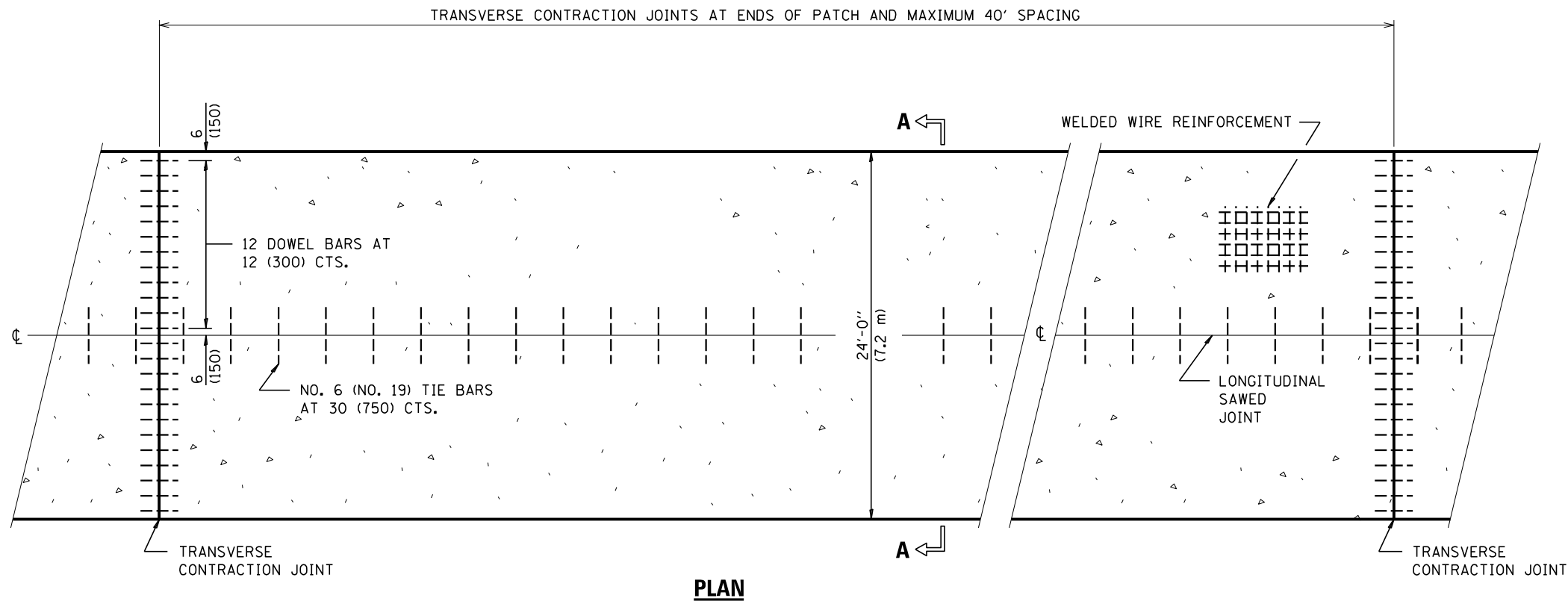
# 24' (7.2 m) PCC PAVEMENT OVER BOX CULVERT



**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



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

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**DISTRICT STANDARDS**

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

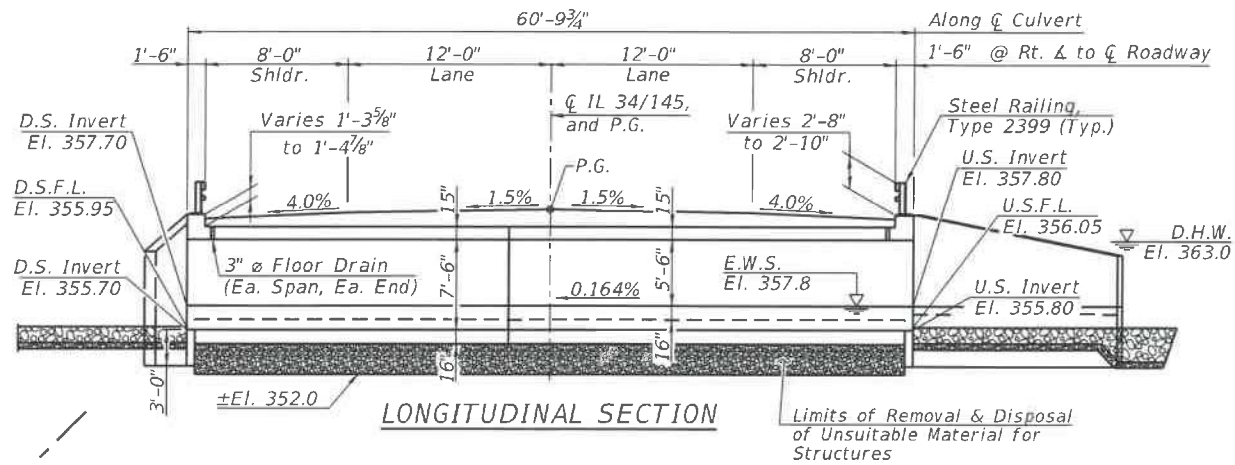
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
132	1B-2	SALINE	76	36
<b>CONTRACT NO. 78680</b>				
<small>ILLINOIS FED. AID PROJECT</small>				

Bench Mark: Railroad spike in telephone pole Sta. 8+35 32' Lt.  
El. 364.70

Existing Structure: Structure number 083-0017 was originally constructed in 1924 as a single span reinforced concrete slab bridge. An additional span was added to the south in 1933. The superstructure was removed in 1979 as F.A. Rte. 132 Section 1B-1-DR and replaced with P.P.C. Deck Beams (17" Depth). The superstructure was widened to 33'-0" out-of-deck, 31'-0" face to face of curb with an HMA overlay. Closed concrete abutments, North abutment on timber pile supported footing, South abutment on concrete footing with no piling and solid reinforced concrete pier on timber pile supported footing. 61'-10 7/8" Bk.-Bk. abutments, 45° skew Rt. Forward.

The structure will be replaced utilizing stage construction.

Precast option is not allowed.  
No salvage.



INDEX OF SHEETS

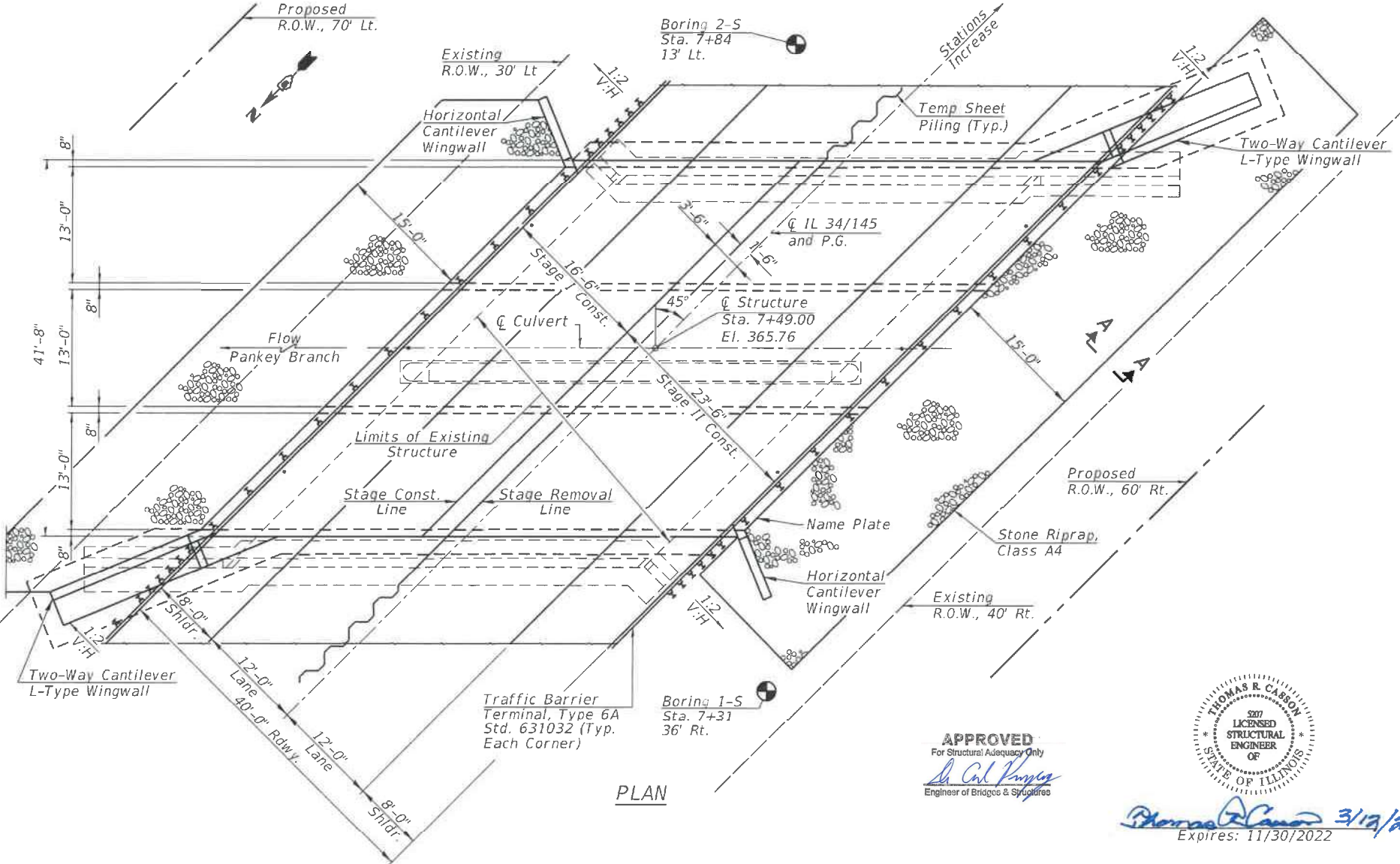
- 1 - General Plan & Elevation
- 2 - General Details
- 3 - Stage Construction Details
- 4 - Temporary Concrete Barrier for Stage Construction
- 5 - Top Slab Reinforcement Plan
- 6 - Bottom Slab Reinforcement Plan
- 7 - Culvert Details
- 8 - Short Wingwall Details
- 9 - Long Wingwall Details
- 10 - Culvert Details
- 11 - Steel Railing, Type 2399
- 12 - Bar Splicer Assembly and Mechanical Splicer Details
- 13-14 - Boring Logs
- 15-20 - Existing Structure

WATERWAY INFORMATION

Drainage Area = 4.2 mi<sup>2</sup> Low Grade Elev. = 363.41 @ Sta. 6+00

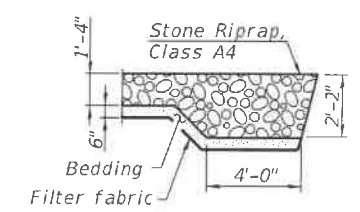
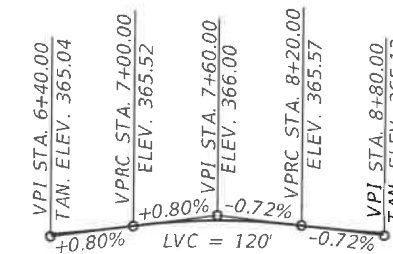
Flood Event	Freq. Yr.	Q C.F.S.	Opening Ft <sup>2</sup>		Nat. H.W.E.	Head - Ft.		Headwater El.	
			Exist.	Prop.		Exist.	Prop.	Exist.	Prop.
	10	620	172	209	362.5	0.4	0.4	362.9	362.9
Overtop Prop.	20	820	182	220	362.8	0.6	0.6	363.4	363.4
Design	50	1096	187	231	363.0	0.8	0.7	363.8	363.7
Base	100	1276	194	237	363.2	0.7	0.5	363.9	363.7
Max. Calc.	200	1470	200	241	363.4	0.6	0.6	364.0	363.9

10 yr. velocity through existing bridge = 3.4 ft/s  
10 yr. velocity through proposed bridge = 2.9 ft/s



STA. 7+49.00  
BUILT 20 BY  
STATE OF ILLINOIS  
F.A.P. ROUTE 132  
SECTION 1B-2  
LOADING HL 93  
STR. NO. 083-2025

NAME PLATE  
(Standard 515001)



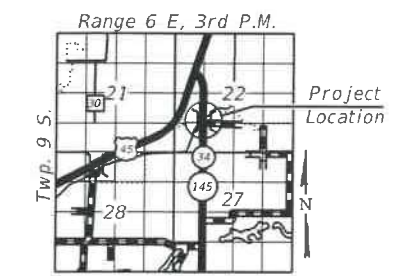
DESIGN SPECIFICATIONS  
2020 AASHTO LRFD Bridge Design  
Specifications, 9th Edition

DESIGN STRESSES  
FIELD UNITS

f<sub>c</sub> = 3,500 psi  
f<sub>y</sub> = 60,000 psi (Reinforcement)

LOADING HL-93

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



GENERAL PLAN & ELEVATION  
IL 34/145 OVER PANKEY BRANCH  
F.A.P. ROUTE 132 - SECTION 1B-2  
SALINE COUNTY  
STATION 7+49.00  
STRUCTURE NO. 083-2025

MODEL: 001  
FILE NAME: Z:\10 V and K Jobs\5244-009 IL 34-145 over Pankey Branch Saline County\CADD Sheets\5244-009-struct-structure\_culvert.dgn  
3/12/2021 12:26:40 PM

 <b>Veenstra &amp; Kimm, Inc.</b> Springfield, IL Phone: (217)544-8033	USER NAME = _____	DESIGNED - TRC	REVISED - _____
	PLOT SCALE = _____	CHECKED - MAH	REVISED - _____
	PLOT DATE = _____	DRAWN - JRP	REVISED - _____
		CHECKED - TRC	REVISED - _____

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

GENERAL PLAN & ELEVATION  
STRUCTURE NO. 083-2025

F.A.P. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
132	1B-2	SALINE	76	37
CONTRACT NO. 78680				
ILLINOIS FED. AID PROJECT				

SHEET 1 OF 20 SHEETS

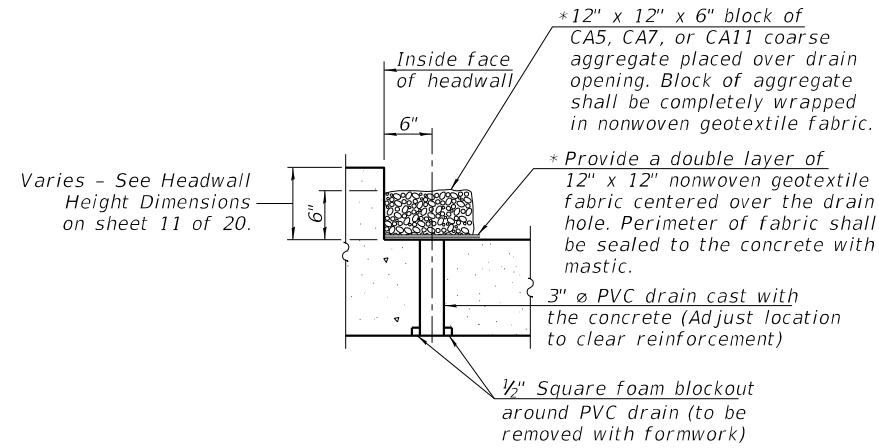
APPROVED  
For Structural Adequacy Only  
*Thomas R. Carson*  
Engineer of Bridges & Structures  
THOMAS R. CARSON  
507 LICENSED STRUCTURAL ENGINEER OF ILLINOIS  
Expires: 11/30/2022

**TOTAL BILL OF MATERIAL**

Item	Unit	Total
Porous Granular Embankment	Cu. Yd.	500
Stone Riprap, Class A4	Ton	217
Filter Fabric	Sq. Yd.	360
Removal of Existing Structures	Each	1
Removal & Disposal of Unsuitable Material For Structures	Cu. Yd.	700
Reinforcement Bars, Epoxy Coated	Pound	79,510
Bar Splicers	Each	197
Steel Railing, Type 2399	Foot	117
Name Plates	Each	1
Temporary Sheet Piling	Sq. Ft.	627
Concrete Box Culverts	Cu. Yd.	325.6
Geocomposite Wall Drain	Sq. Yd.	291
Membrane Waterproofing System For Buried Structures	Sq. Yd.	291
Geotechnical Fabric	Sq. Yd.	367
Rock Fill - Foundation	Ton	1,279

**GENERAL NOTES**

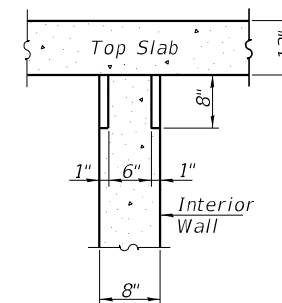
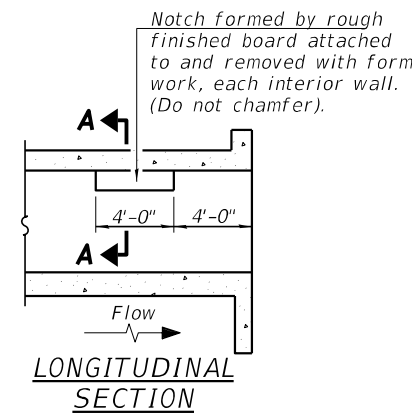
Reinforcement bars designated (E) shall be epoxy coated. Layout of the slope protection system may be varied to suit ground conditions in the field as directed by the Engineer.  
 At least 6 ft. of the barrel shall be poured monolithically with the wingwalls.  
 For backfilling and embankment, see Special Provisions. Precast alternate is not allowed.  
 Excavation behind the existing abutment walls shall be performed to balance the front and back soil pressures before removing the existing superstructure. The contractor shall saw cut 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.



**DRAIN DETAIL**

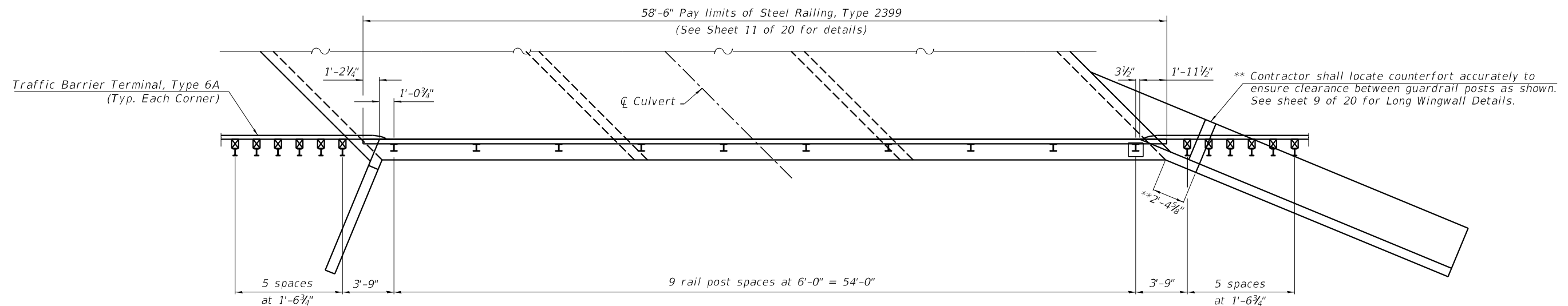
(All costs associated with furnishing and constructing the above drain detail will not be measured for payment but shall be included in the contract unit price for the associated work.)

\* 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)**



**RAIL POST SPACING**

MODEL: SMODELNAMES  
FILE NAME: SFILLES

**V&K**  
Veenstra & Kimm, Inc.  
Springfield, IL Phone: (217)544-8033

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

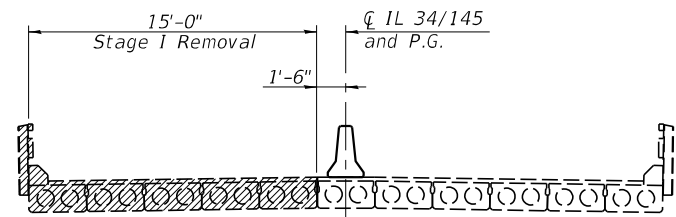
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**GENERAL DETAILS  
STRUCTURE NO. 083-2025**

SHEET 2 OF 20 SHEETS

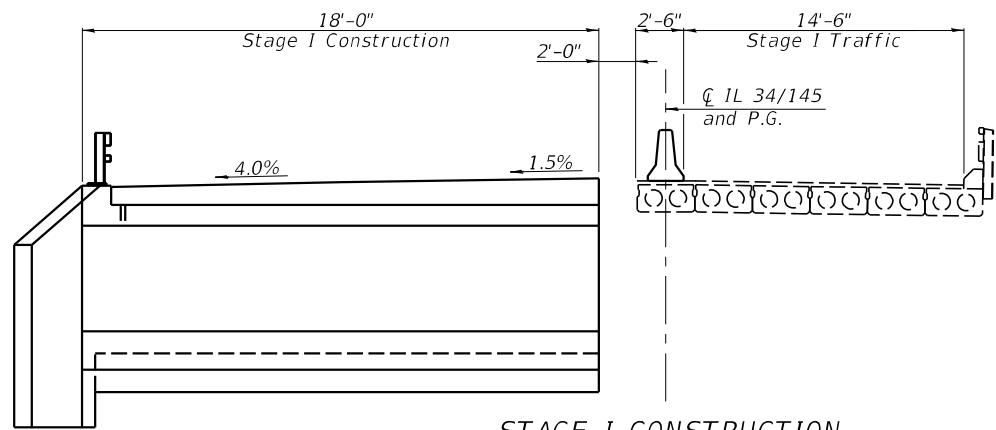
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
132	1B-2	SALINE	76	38
CONTRACT NO. 78680				
ILLINOIS FED. AID PROJECT				

SDATES \$TIMES



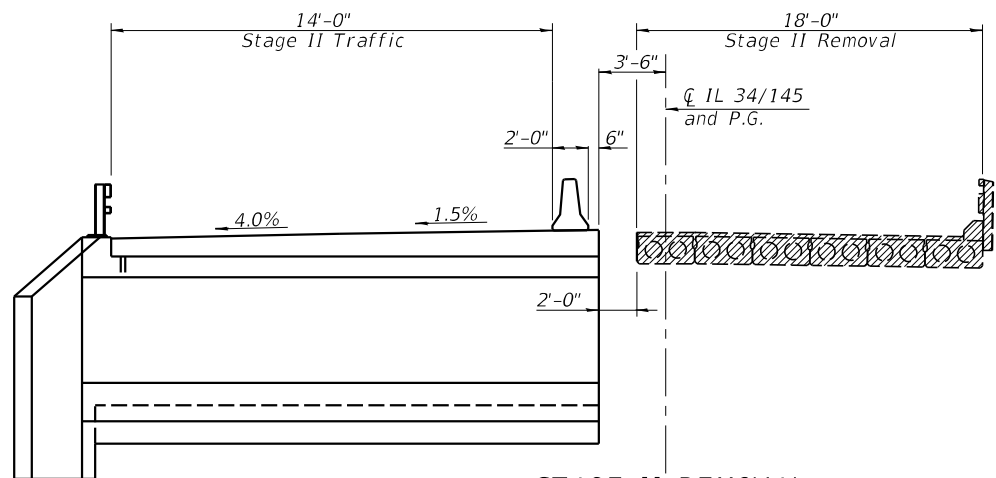
**STAGE I REMOVAL**

(Looking South)  
(Dimensions are at Rt. Angles to CL Rdwy.)



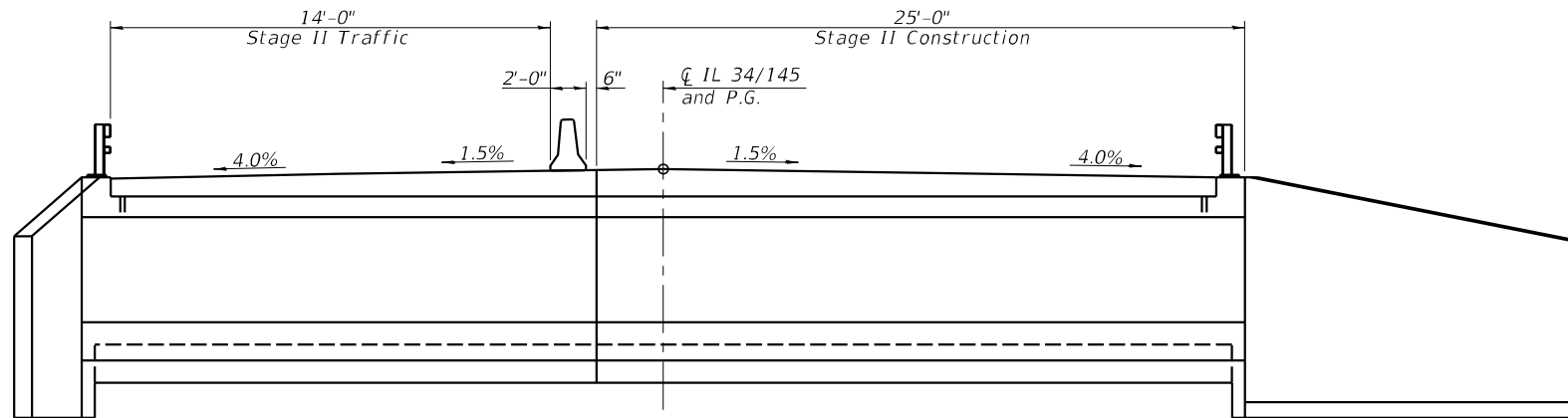
**STAGE I CONSTRUCTION**

(Looking South)  
(Dimensions are at Rt. Angles to CL Rdwy.)



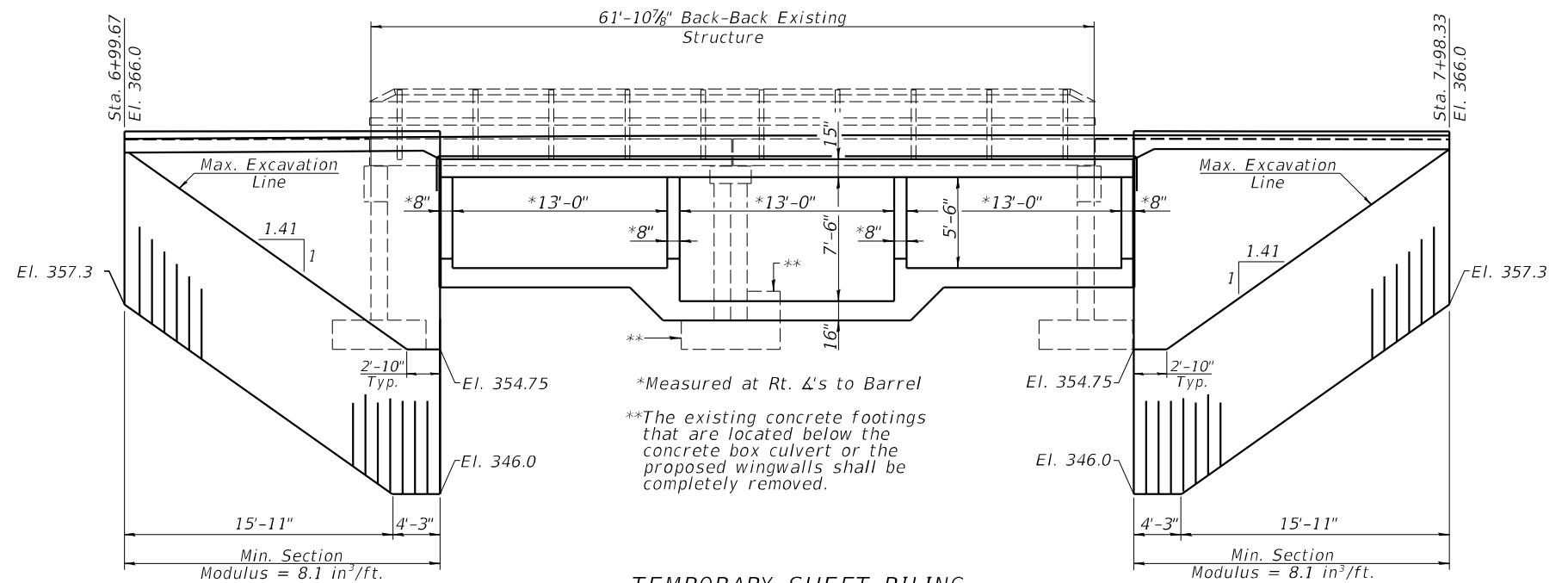
**STAGE II REMOVAL**

(Looking South)  
(Dimensions are at Rt. Angles to CL Rdwy.)



**STAGE II CONSTRUCTION**

(Looking South)  
(Dimensions are at Rt. Angles to CL Rdwy.)



**TEMPORARY SHEET PILING**

(Looking Southeast)  
Horizontal dimensions measured along CL of roadway except as noted.

\*Measured at Rt.  $\Delta$ 's to Barrel  
\*\*The existing concrete footings that are located below the concrete box culvert or the proposed wingwalls shall be completely removed.

**Notes:**

If the Contractor chooses to alter the temporary cantilever sheet piling design requirements shown on the plans, a design submittal including plan details and calculations will be required for review and acceptance by the Engineer.  
The Contractor shall connect the first sheet to the existing abutment wall to ensure stability of sheets driven to the top of the existing footing. This connection shall be reviewed and accepted by the Engineer and included in the cost for Temporary Sheet Piling.

MODEL: SMODELNAMES  
FILE NAME: SFILES



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

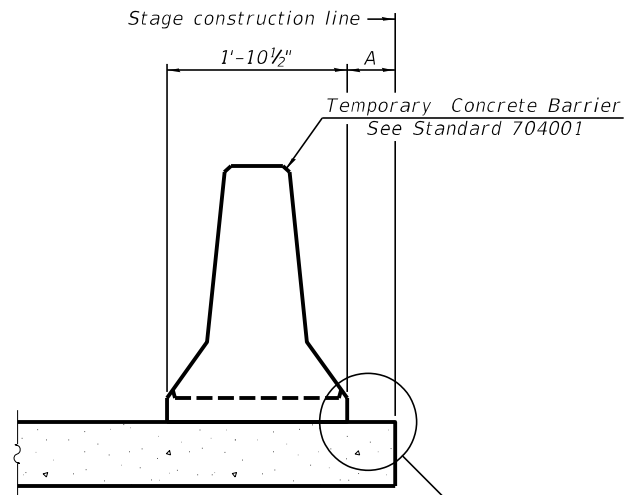
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**STAGE CONSTRUCTION DETAILS  
STRUCTURE NO. 083-2025**

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
132	1B-2	SALINE	76	39
CONTRACT NO. 78680				
ILLINOIS FED. AID PROJECT				

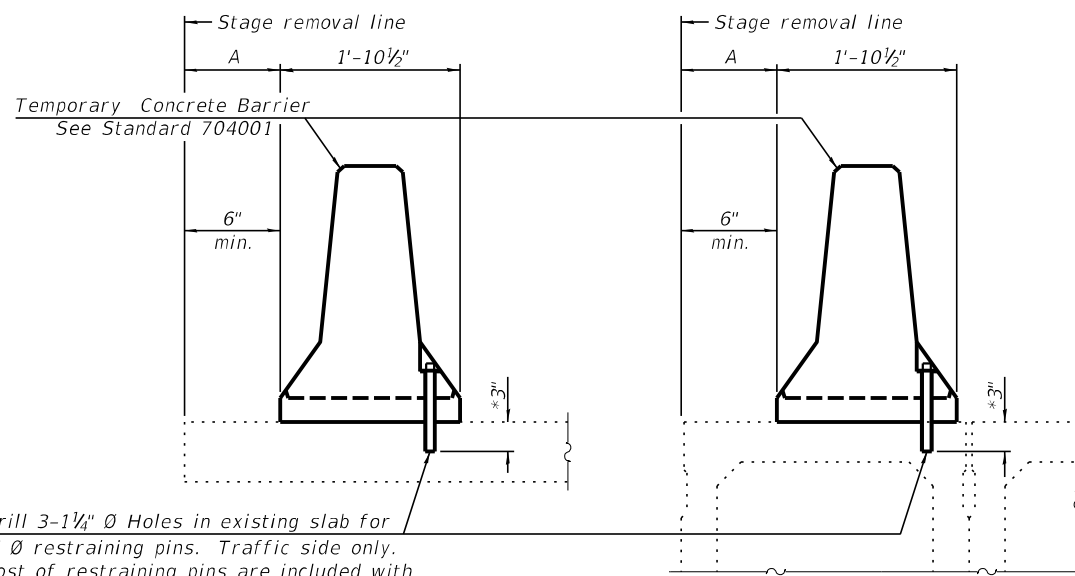
SHEET 3 OF 20 SHEETS

SDATES \$TIMES



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



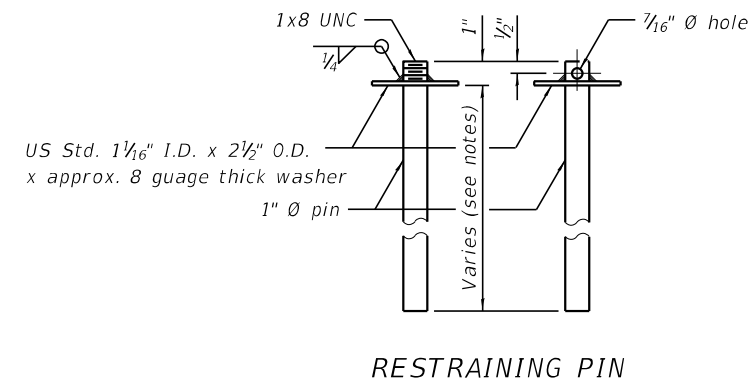
Drill 3-1/4" Ø Holes in existing slab for 1" Ø restraining pins. Traffic side only. Cost of restraining pins are included with Temporary Concrete Barrier. No restraint is required when "A" is greater than 3'-1".

EXISTING SLAB

EXISTING DECK BEAM

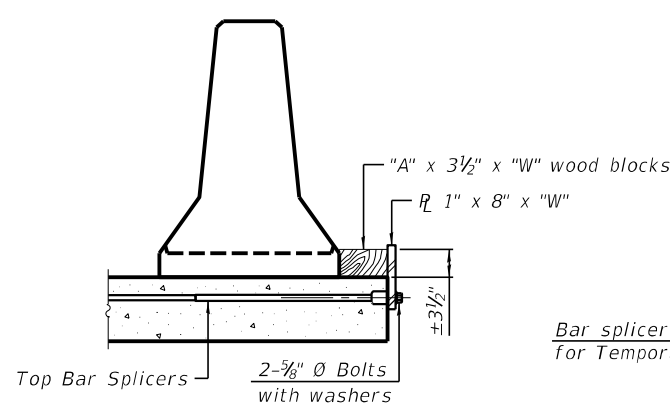
\* When hot-mix asphalt wearing surface is present, embedment shall be 3" plus the wearing surface depth.

SECTIONS THRU SLAB OR DECK BEAM

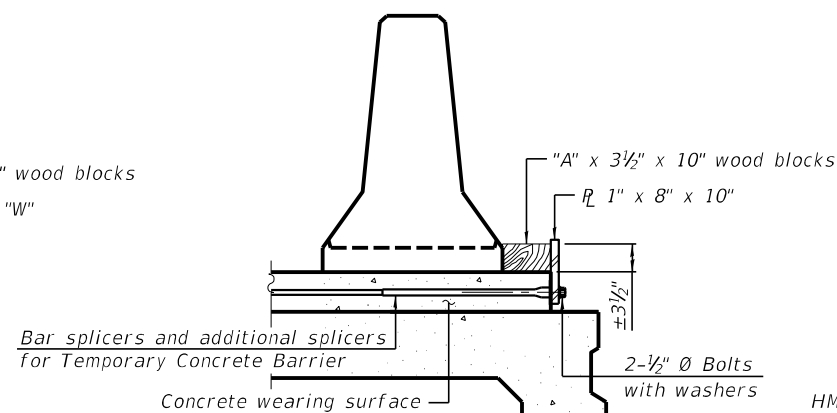


US Std. 1 1/16" I.D. x 2 1/2" O.D. x approx. 8 gauge thick washer

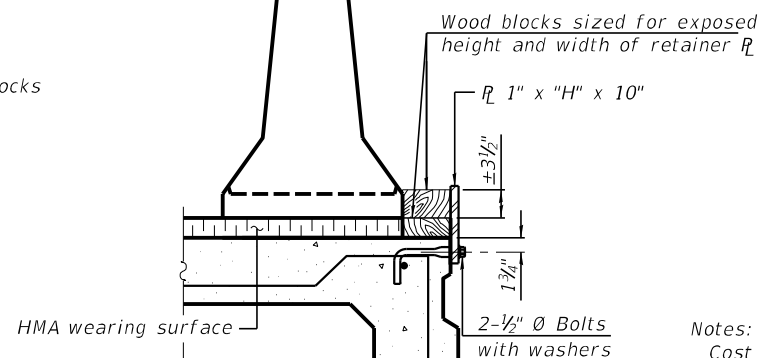
RESTRAINING PIN



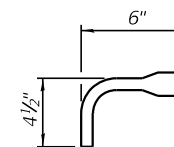
DETAIL I



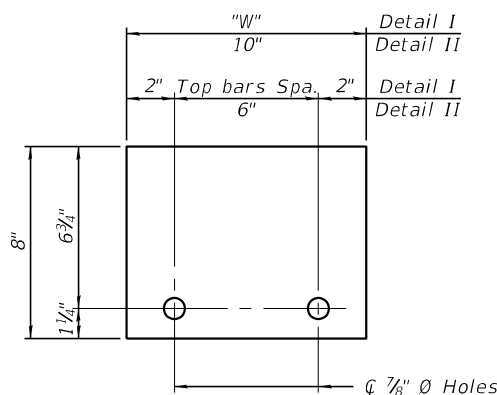
DETAIL II



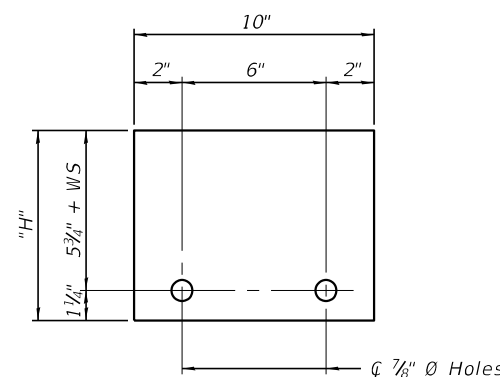
DETAIL III



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 center 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 2-17-2017



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PLOT DATE =	CHECKED - TRC	REVISED -

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TEMPORARY CONCRETE BARRIER FOR STAGE CONSTRUCTION  
STRUCTURE NO. 083-2025

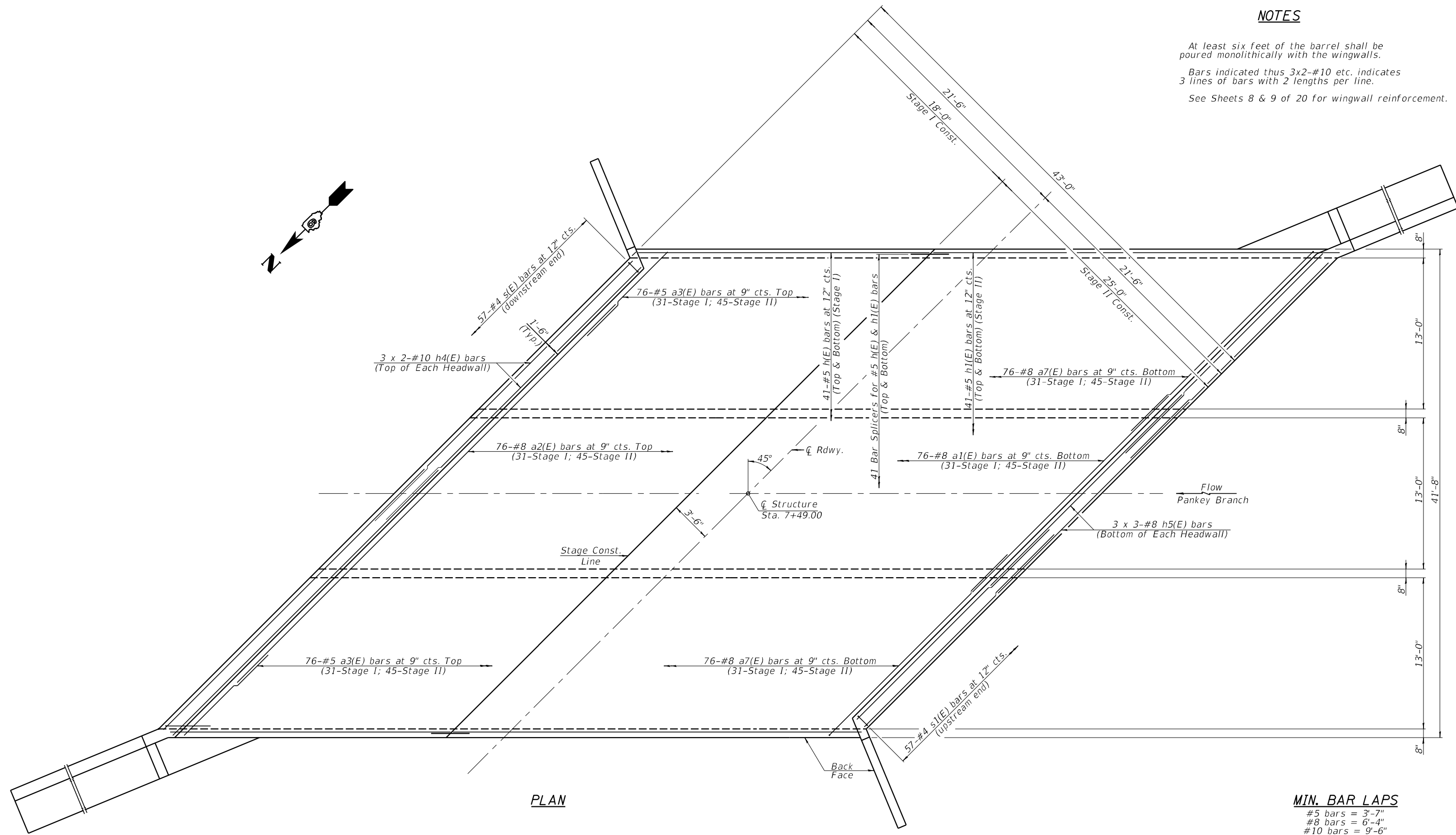
SHEET NO. 4 OF 20 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
132	1B-2	SALINE	76	40
CONTRACT NO. 78680				
ILLINOIS FED. AID PROJECT				



**NOTES**

At least six feet of the barrel shall be poured monolithically with the wingwalls.  
 Bars indicated thus 3x2-#10 etc. indicates 3 lines of bars with 2 lengths per line.  
 See Sheets 8 & 9 of 20 for wingwall reinforcement.



**PLAN**

**MIN. BAR LAPS**

#5 bars = 3'-7"  
 #8 bars = 6'-4"  
 #10 bars = 9'-6"



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**STATE OF ILLINOIS  
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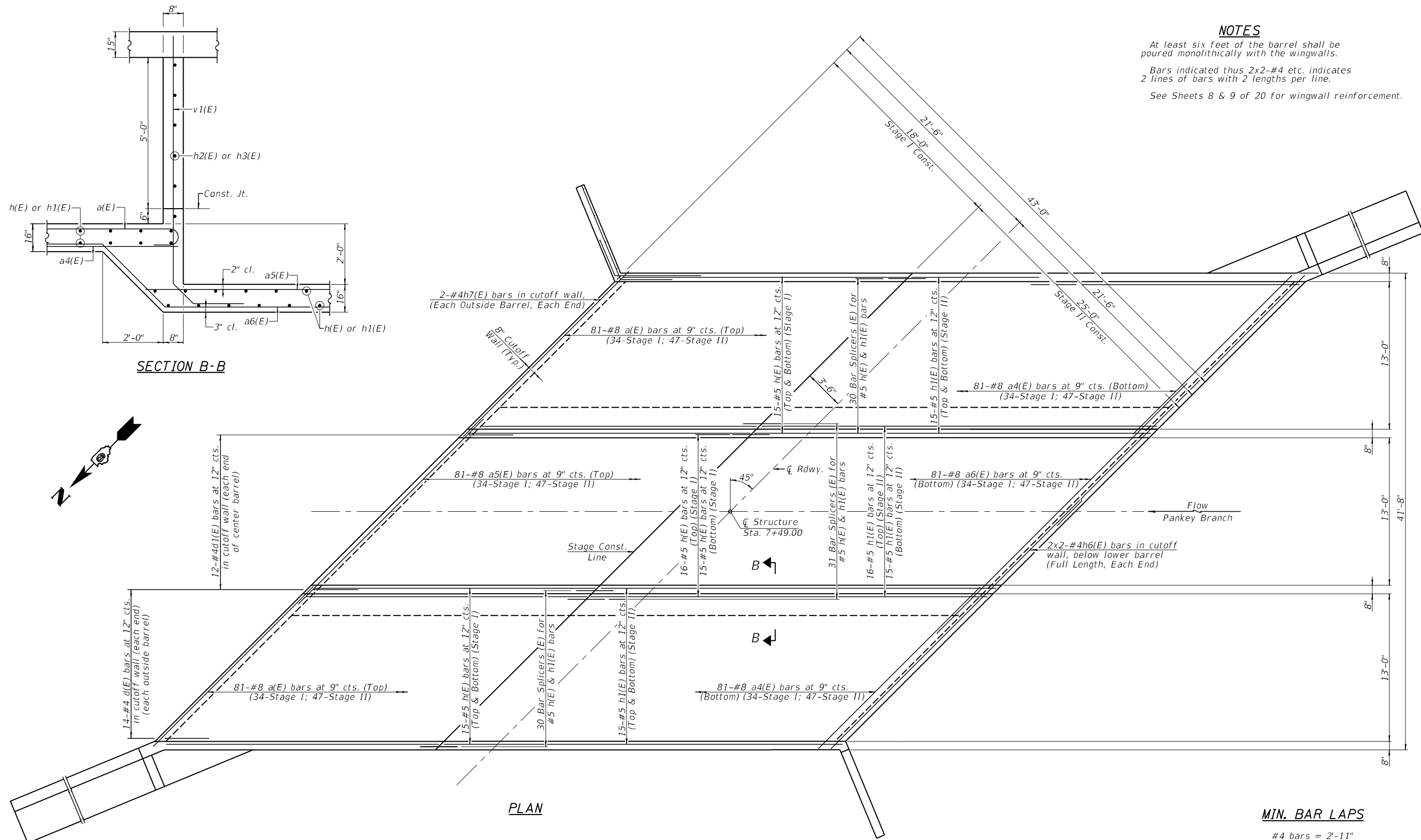
**TOP SLAB REINFORCEMENT PLAN  
 STRUCTURE NO. 083-2025**

SHEET NO. 5 OF 20 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
139	1B-2	SALINE	76	41
CONTRACT NO. 78680				
ILLINOIS FED. AID PROJECT				

**NOTES**

At least six feet of the barrel shall be poured monolithically with the wingwalls.  
 Bars indicated thus 2x2-#4 etc. indicates 2 lines of bars with 2 lengths per line.  
 See Sheets 8 & 9 of 20 for wingwall reinforcement.



**MIN. BAR LAPS**  
 #4 bars = 2'-11"

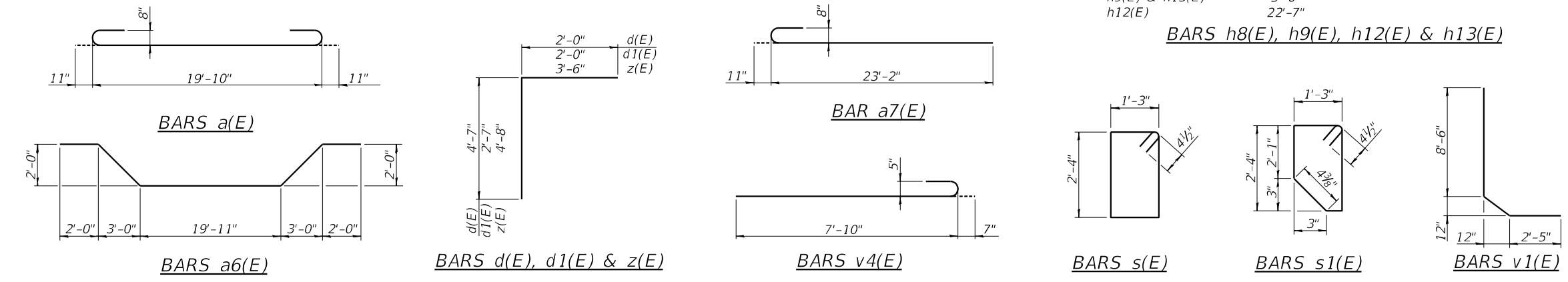
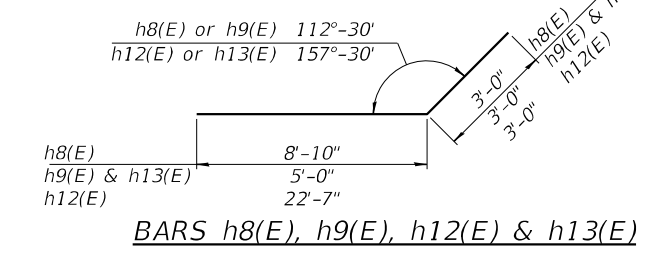
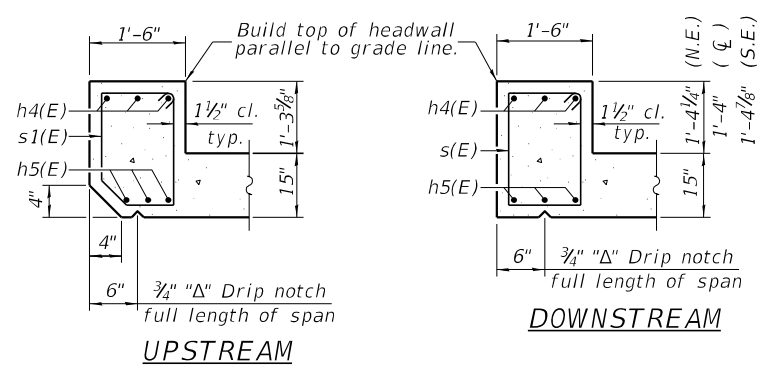
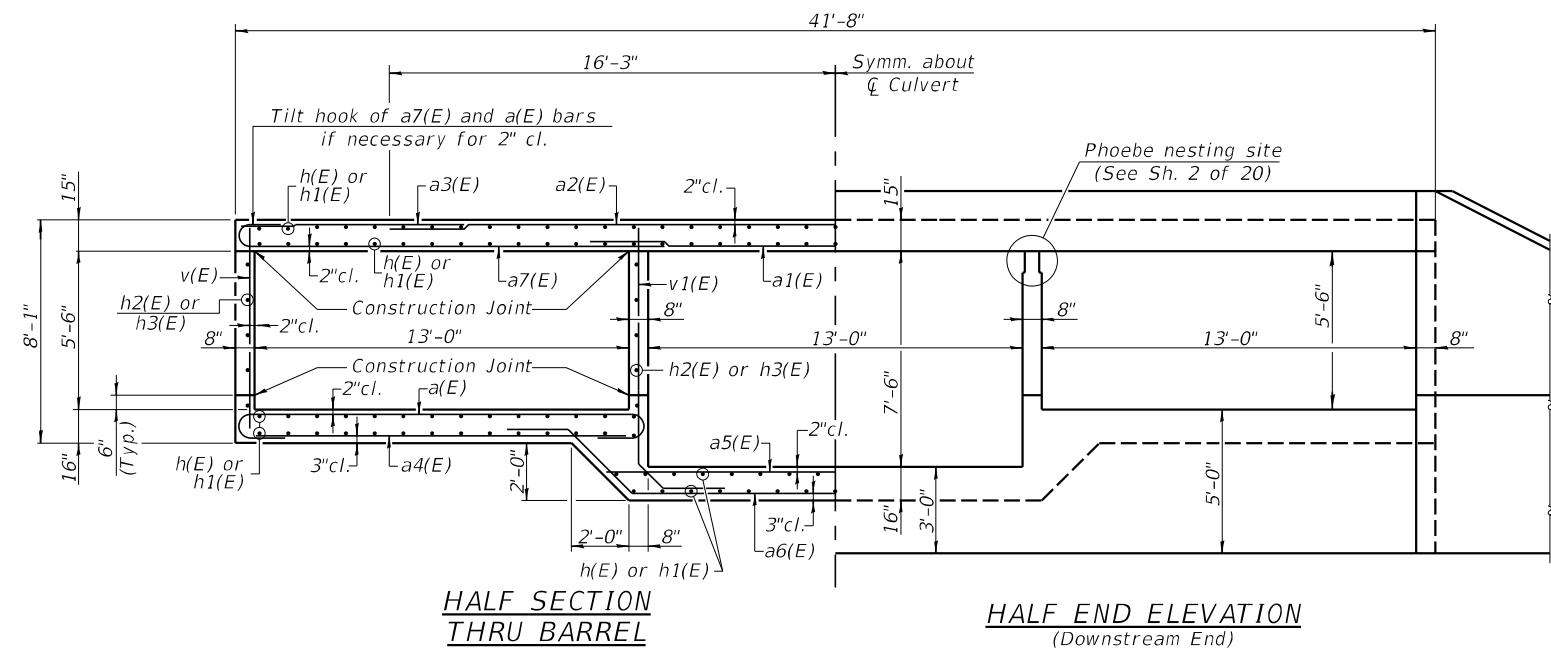
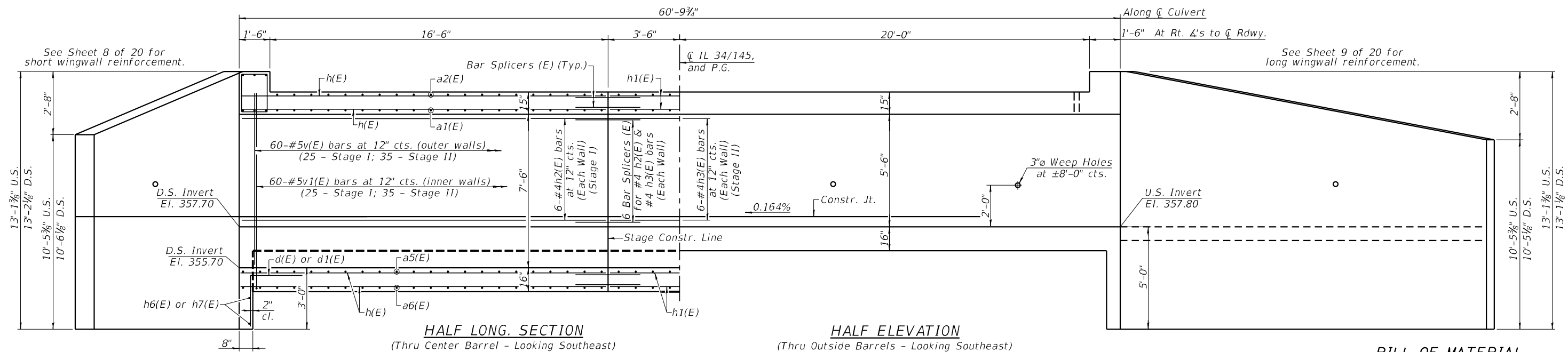


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PLOT DATE =	DRAWN - JRP	REVISED -
	CHECKED - TRC	REVISED -

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

**BOTTOM SLAB REINFORCEMENT PLAN**  
**STRUCTURE NO. 083-2025**  
 SHEET NO. 6 OF 20 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
139	1B-2	SALINE	76	42
CONTRACT NO. 78680				
ILLINOIS FED. AID PROJECT				



**BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
a1(E)	162	#8	21'-8"	U
a1(E)	76	#8	25'-5"	—
a2(E)	76	#8	46'-0"	—
a3(E)	152	#5	10'-0"	—
a4(E)	162	#8	19'-11"	—
a5(E)	81	#8	22'-9"	—
a6(E)	81	#8	31'-2"	—
a7(E)	152	#8	24'-1"	U
d(E)	56	#4	6'-7"	—
d1(E)	24	#4	4'-7"	—
h(E)	173	#5	25'-1"	—
h1(E)	173	#5	35'-0"	—
h2(E)	24	#4	25'-1"	—
h3(E)	24	#4	35'-0"	—
h4(E)	12	#10	33'-2"	—
h5(E)	18	#8	23'-3"	—
h6(E)	8	#4	30'-7"	—
h7(E)	8	#4	19'-11"	—
h8(E)	50	#6	11'-10"	—
h9(E)	26	#6	8'-0"	—
h10(E)	8	#4	9'-1"	—
h11(E)	32	#4	3'-6"	—
h12(E)	42	#5	25'-7"	—
h13(E)	24	#5	8'-0"	—
h14(E)	4	#5	21'-10"	—
s(E)	57	#4	7'-11"	□
s1(E)	57	#4	7'-10"	□
t(E)	20	#4	3'-7"	—
v(E)	122	#5	7'-8"	—
v1(E)	120	#5	12'-4"	—
v2(E)	12	#4	12'-8"	—
v3(E)	40	#5	13'-2"	—
v4(E)	112	#5	8'-5"	U
v5(E)	24	#5	5'-8"	—
v6(E)	10	#5	7'-11"	—
w(E)	10	#5	32'-9"	—
z(E)	80	#5	8'-2"	—
Concrete Box Culverts			Cu. Yd.	325.6
Reinforcement Bars, Epoxy Coated			Pound	79,510

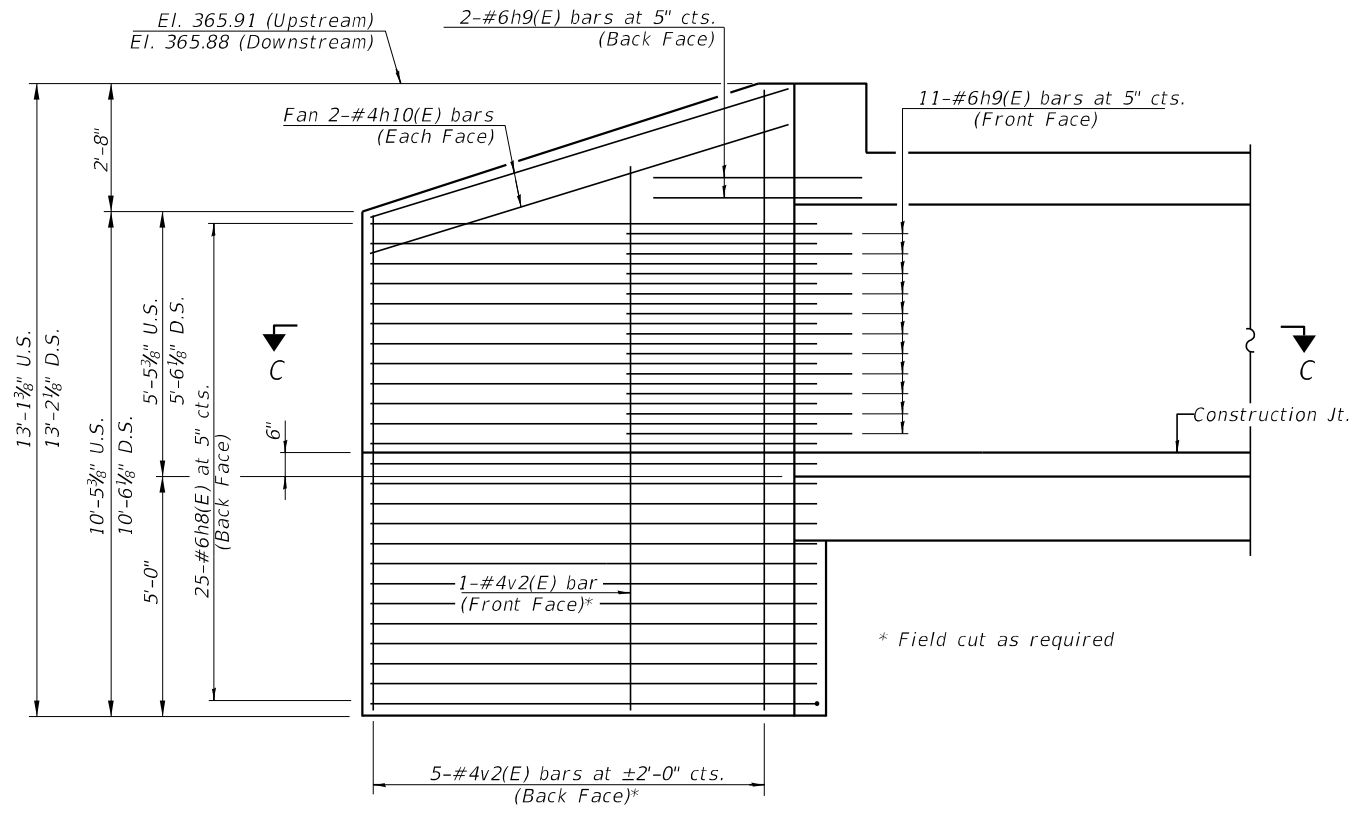


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PLOT SCALE =	CHECKED - MAH	REVISED -
PLOT DATE =	DRAWN - JRP	REVISED -
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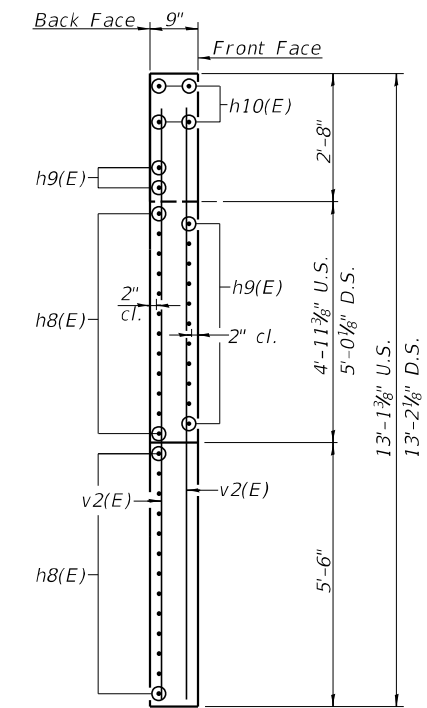
STATE OF ILLINOIS  
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CULVERT DETAILS  
STRUCTURE NO. 083-2025  
SHEET NO. 7 OF 20 SHEETS

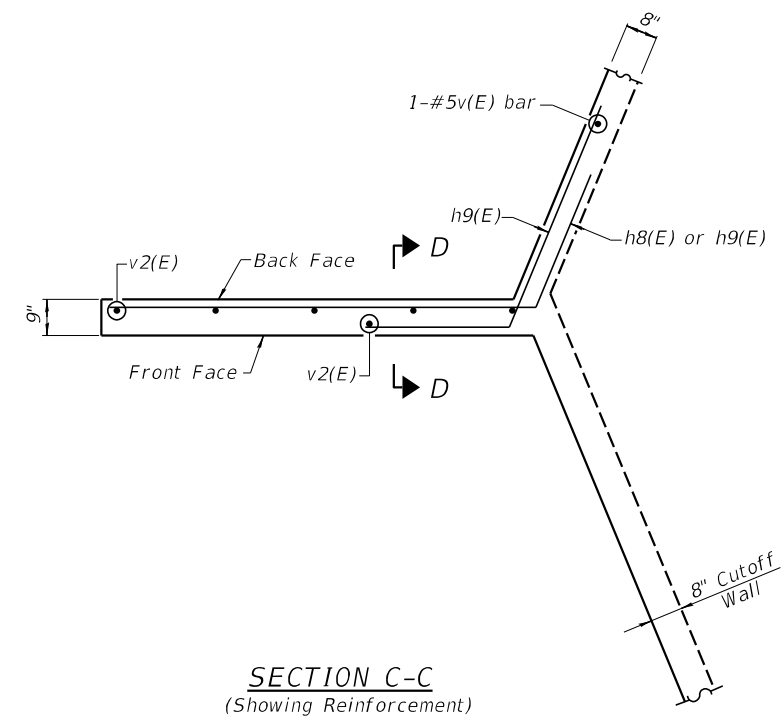
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
139	1B-2	SALINE	76	43
CONTRACT NO. 78680				
ILLINOIS FED. AID PROJECT				



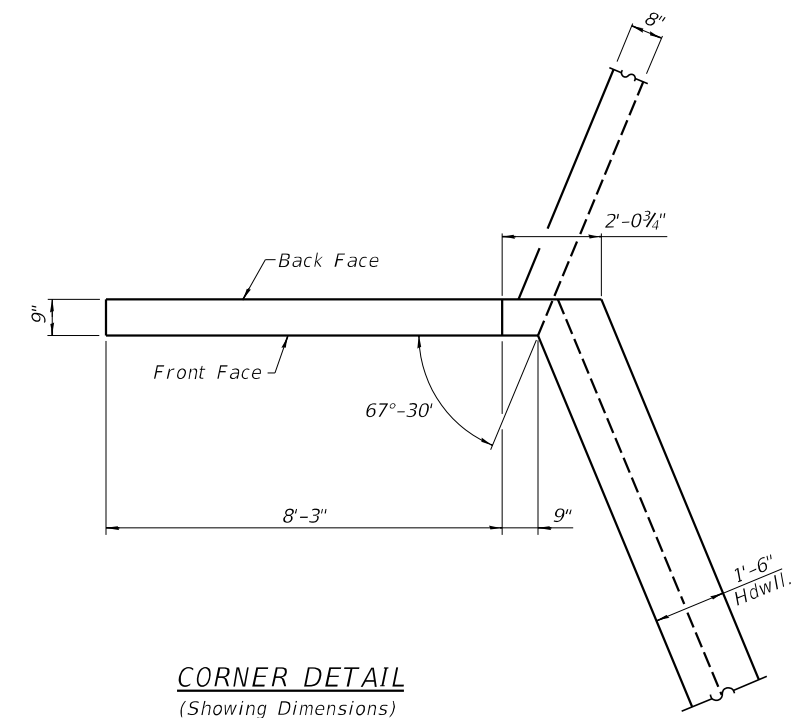
**WINGWALL ELEVATION**  
(S.E. & N.W. Corners)



**SECTION D-D**



**SECTION C-C**  
(Showing Reinforcement)



**CORNER DETAIL**  
(Showing Dimensions)



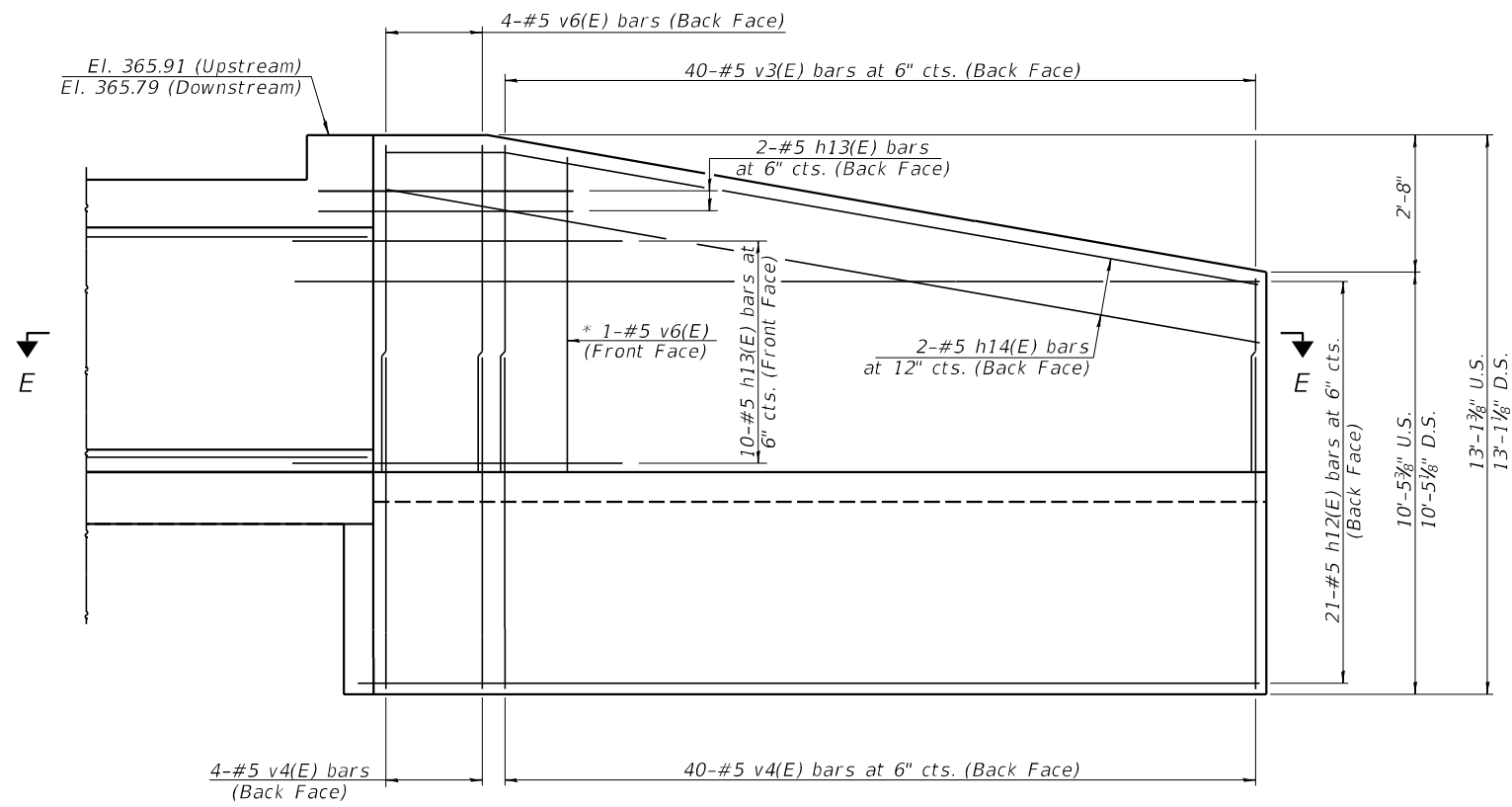
USER NAME =	DESIGNED - TRC	REVISED -
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	CHECKED - TRC	REVISED -

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

**SHORT WINGWALL DETAILS**  
**STRUCTURE NO. 083-2025**

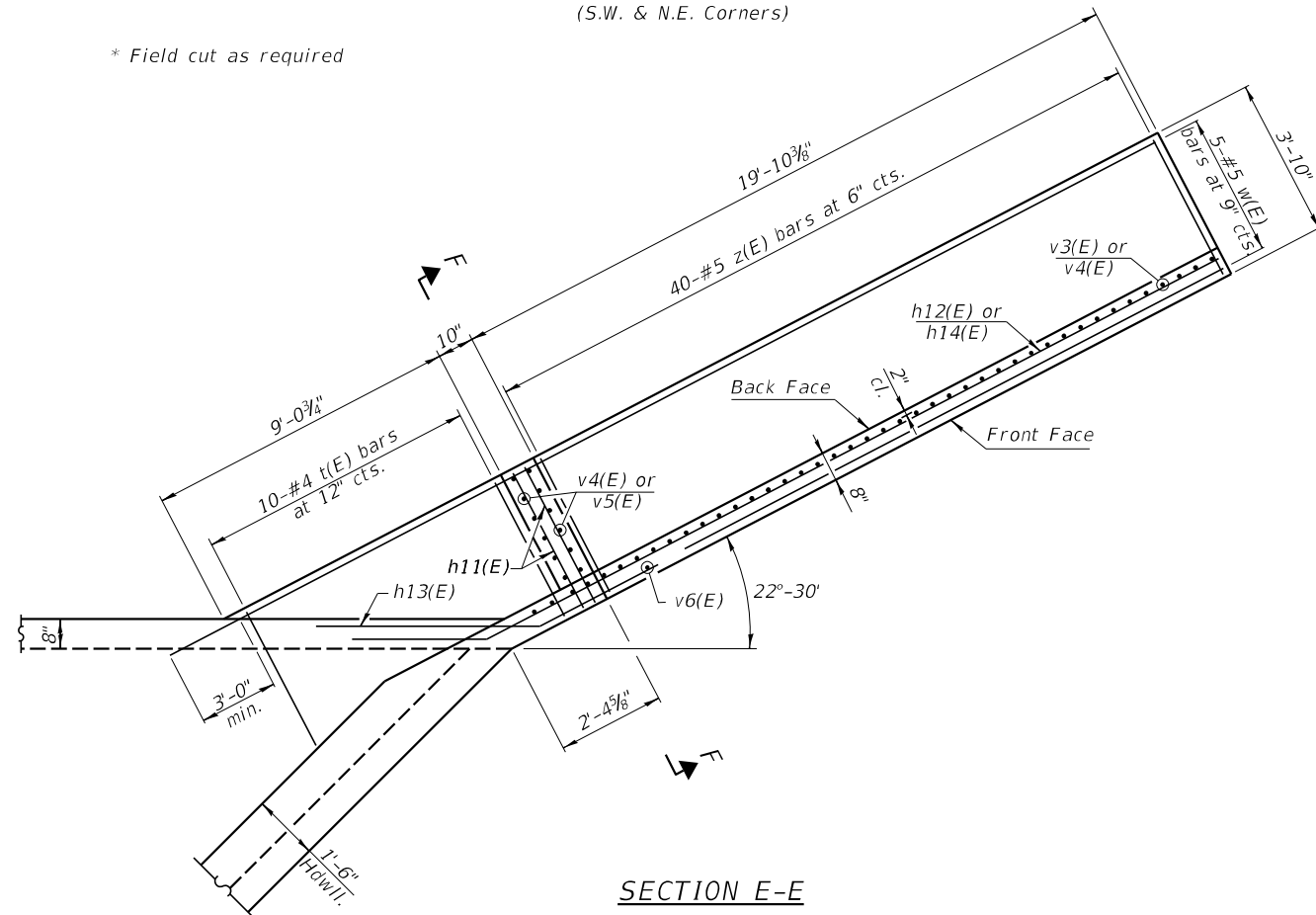
SHEET NO. 8 OF 20 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
132	1B-2	SALINE	76	44
<b>CONTRACT NO. 78680</b>				
<small>ILLINOIS FED. AID PROJECT</small>				

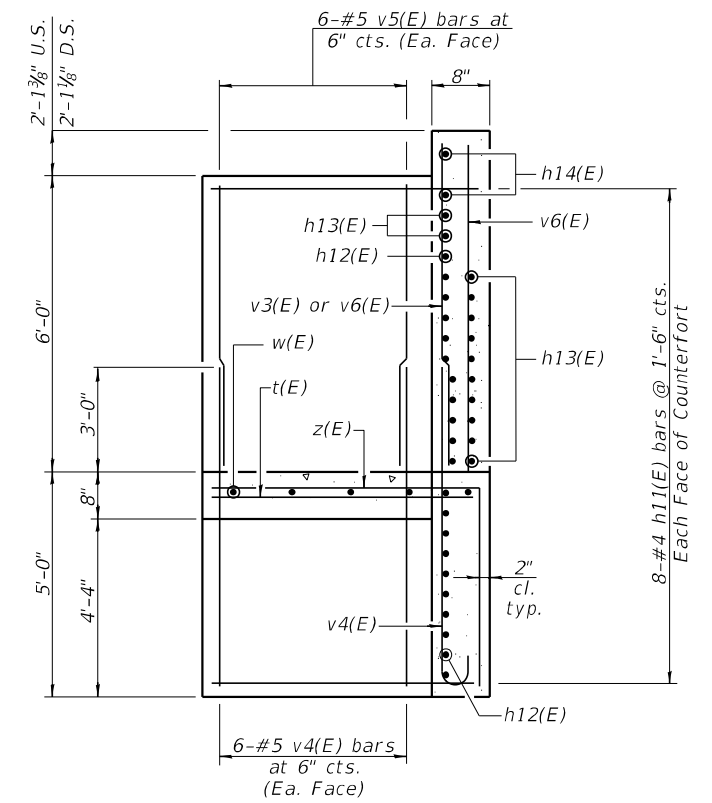


**WINGWALL ELEVATION**  
(S.W. & N.E. Corners)

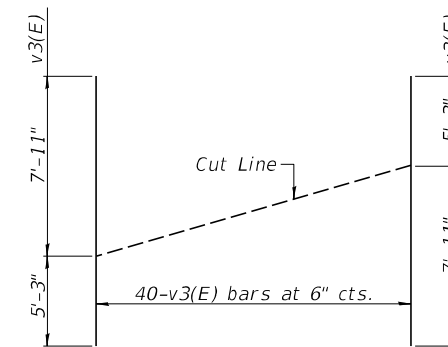
\* Field cut as required



**SECTION E-E**



**SECTION F-F**



**FIELD CUTTING DIAGRAM**  
Order bars shown full length. Cut as shown and use remainder of bars in opposite wingwall.



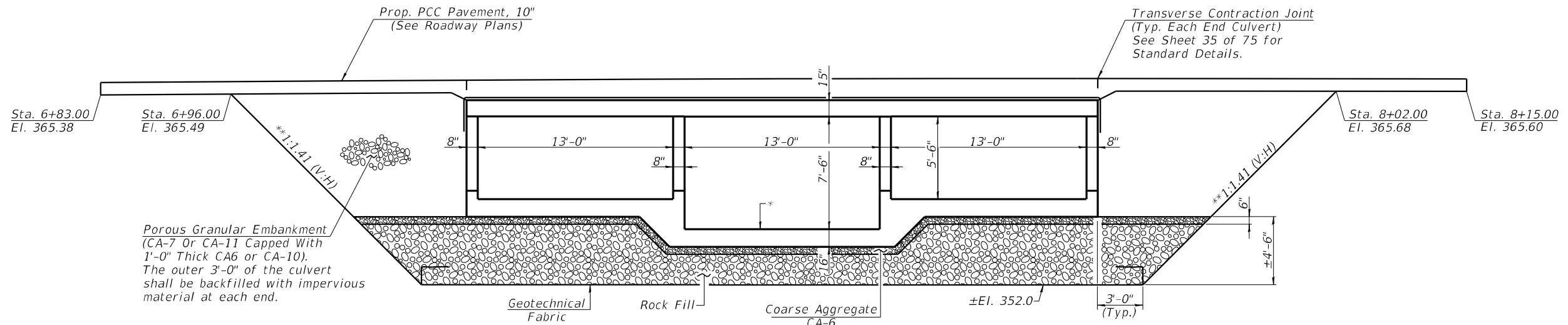
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**LONG WINGWALL DETAILS  
STRUCTURE NO. 083-2025**

SHEET NO. 9 OF 20 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
132	1B-2	SALINE	76	45
<b>CONTRACT NO. 78680</b>				
<small>ILLINOIS FED. AID PROJECT</small>				



**SECTION THRU BARREL**

(Looking Northeast)

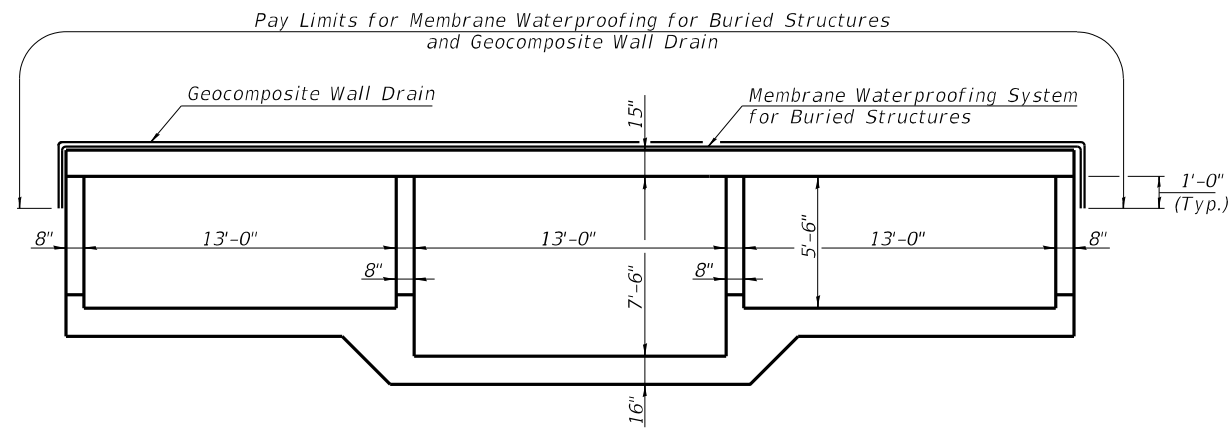
Porous Granular Embankment  
(CA-7 Or CA-11 Capped With  
1'-0" Thick CA6 or CA-10).  
The outer 3'-0" of the culvert  
shall be backfilled with impervious  
material at each end.

Transverse Contraction Joint  
(Typ. Each End Culvert)  
See Sheet 35 of 75 for  
Standard Details.

\* Center Barrel  
Invert El. 355.80 U.S.  
Invert El. 355.70 D.S.

Outside Barrel  
Invert El. 357.80 U.S.  
Invert El. 357.70 D.S.

\*\* Along  $\nabla$  Roadway



**SECTION THRU CULVERT**

(Looking Northeast)

Pay Limits for Membrane Waterproofing for Buried Structures  
and Geocomposite Wall Drain

Geocomposite Wall Drain

Membrane Waterproofing System  
for Buried Structures

**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.



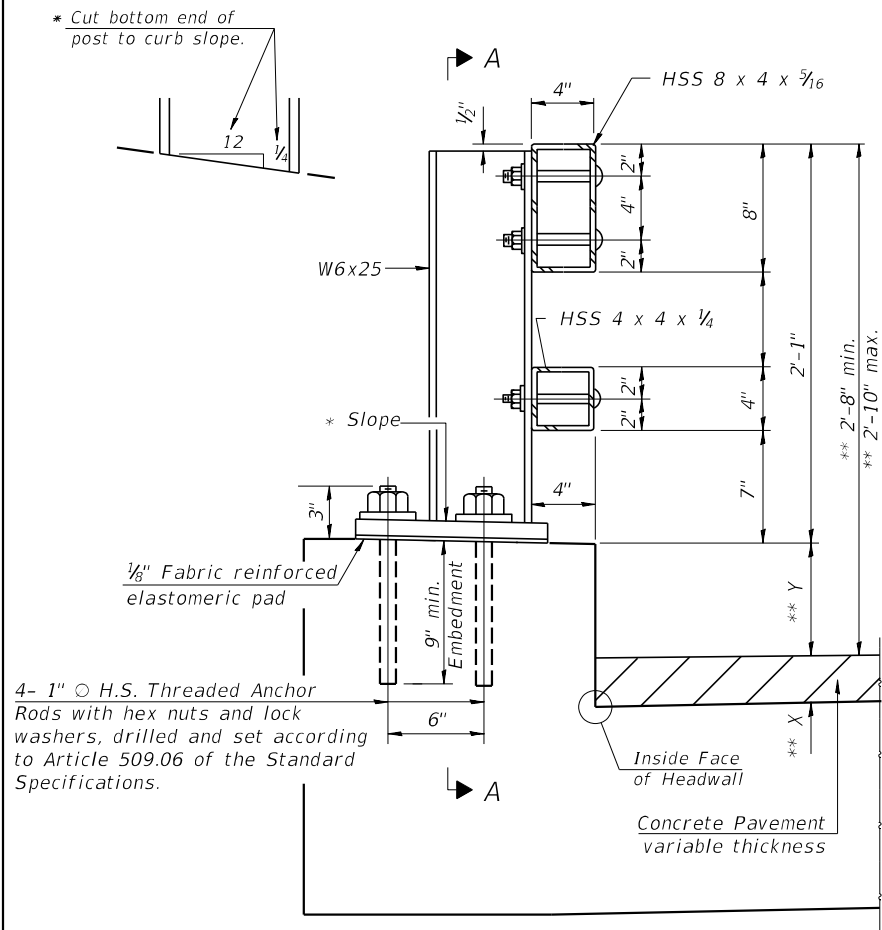
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PLOT DATE =	CHECKED - TRC	REVISED -

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CULVERT DETAILS  
STRUCTURE NO. 083-2025

SHEET NO. 10 OF 20 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
132	1B-2	SALINE	76	46
CONTRACT NO. 78680				
ILLINOIS FED. AID PROJECT				

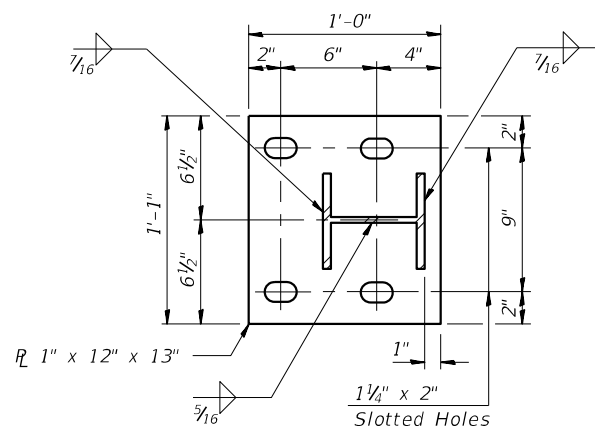


**SECTION AT RAIL POST**

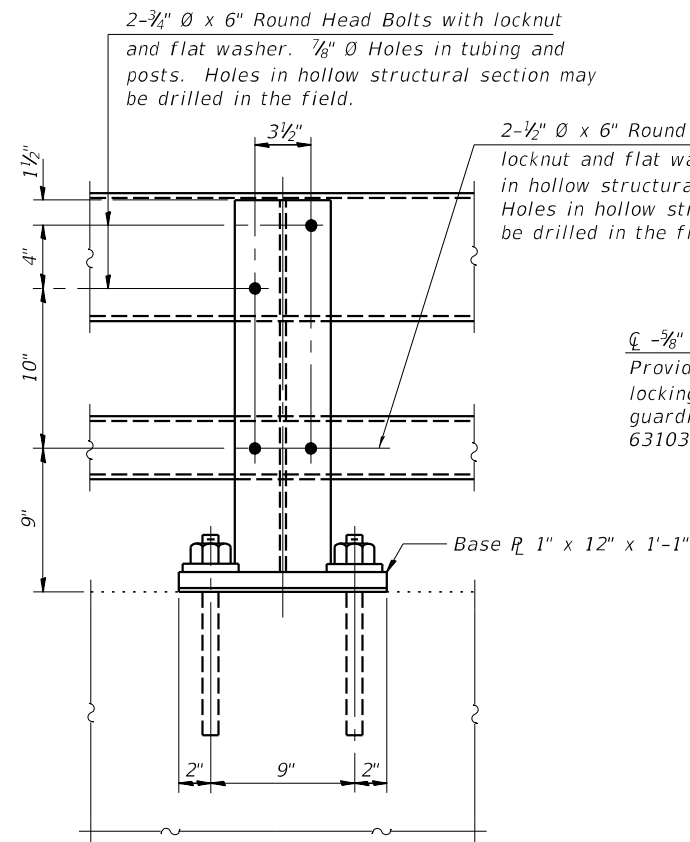
\*\* Vertical Rail Post Dimensions and X & Y Dimensions measured at inside face of headwall.

**Headwall Height Dimensions**

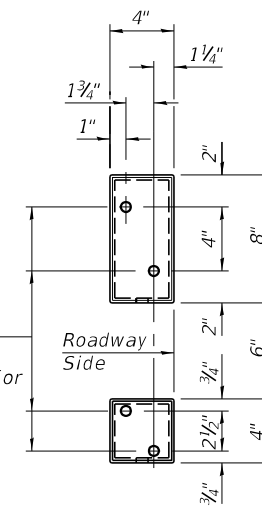
END	Corner	X	Y	Total
Upstream	N.W.	8 1/4"	7 3/8"	1'-3 5/8"
	CL	8 3/8"	7"	1'-3 3/8"
	S.W.	7 3/4"	7 1/8"	1'-3 3/8"
Downstream	N.E.	7 1/4"	9"	1'-4 1/4"
	CL	9"	7"	1'-4"
	S.E.	9 1/8"	7"	1'-4 1/8"



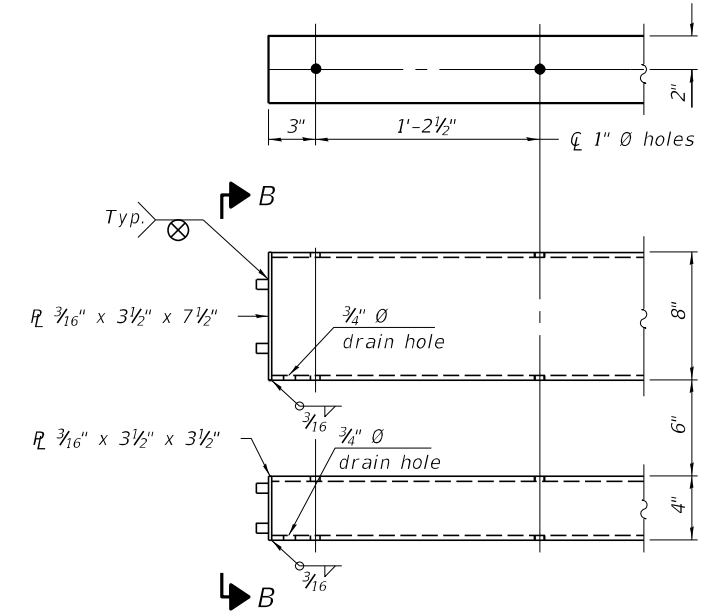
**BASE PLATE DETAIL**



**SECTION A-A**

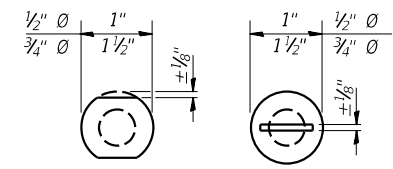


**VIEW B-B**

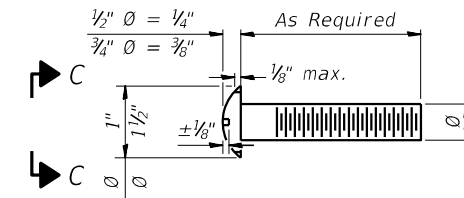


**END OF RAIL DETAILS**

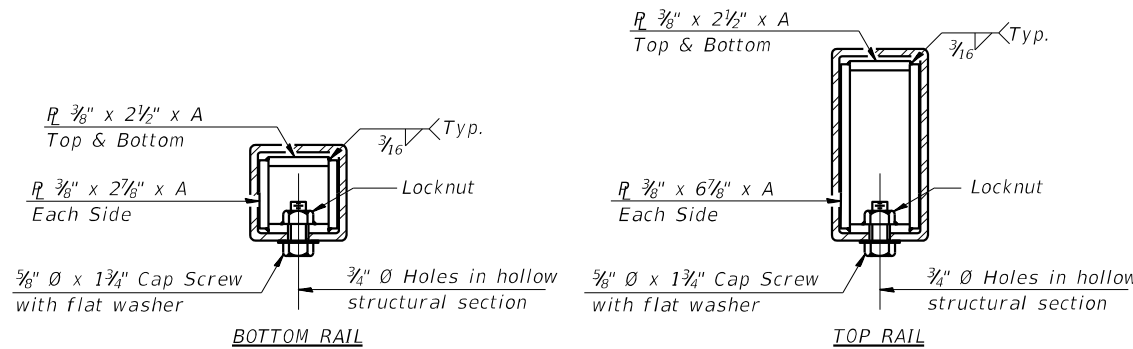
CL - 3/8" reduced base welded studs. Provide 4 - 3/8" washers and self-locking nuts or nuts and jam nuts for guardrail connection shown on Std. 631032.



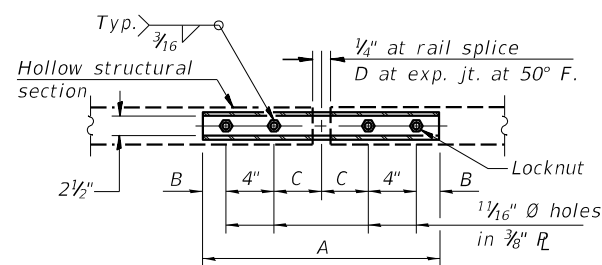
**VIEW C-C**



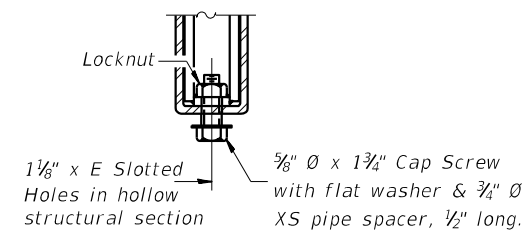
**DETAIL OF 1/2" & 3/4" ROUND HEAD BOLTS**



**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	117

R-31

2-17-2017

(6'-3" Maximum Post Spacing)



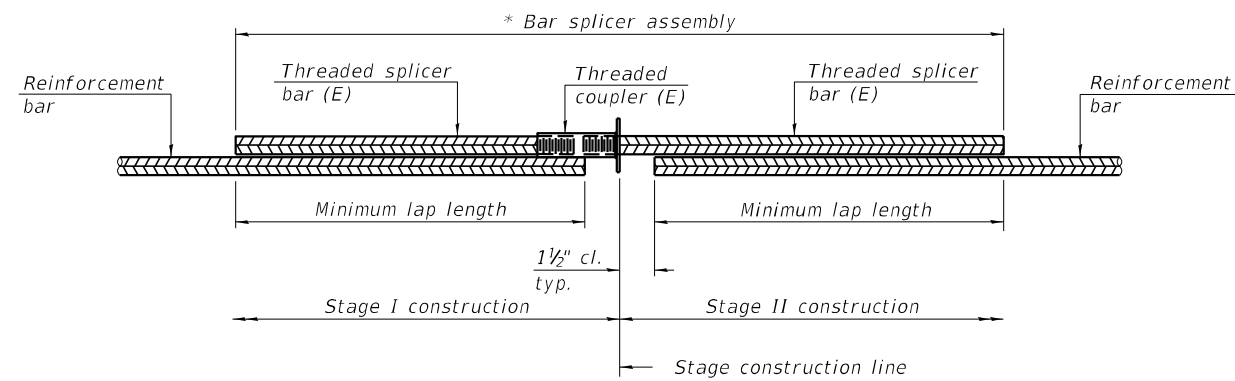
USER NAME =	DESIGNED - TRC	REVISED -
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PLOT DATE =	DRAWN - JRP	REVISED -
	CHECKED - TRC	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

STEEL RAILING, TYPE 2399  
STRUCTURE NO. 083-2025

SHEET NO. 11 OF 20 SHEETS

F.A.P. RTE. 132	SECTION 1B-2	COUNTY SALINE	TOTAL SHEETS 76	SHEET NO. 47
CONTRACT NO. 78680				
ILLINOIS FED. AID PROJECT				



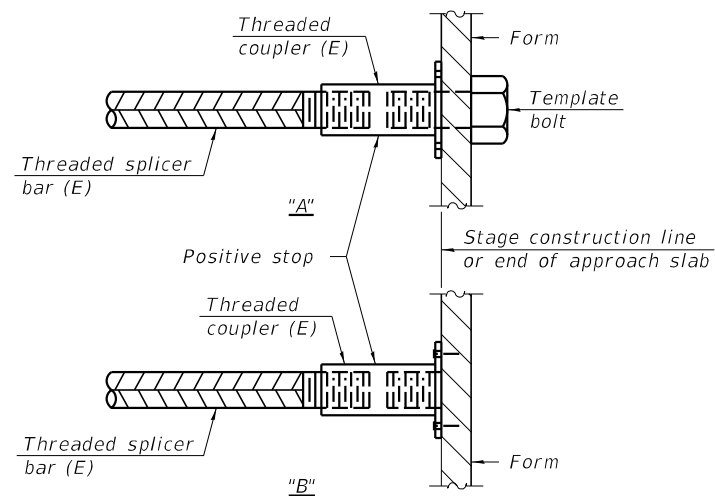
**STANDARD BAR SPLICER ASSEMBLY PLAN**

(All components shall be provided from one supplier)

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	# 5	82	3'-2"
Bottom Slab	# 5	91	3'-2"
Interior Wall	# 4	12	2'-7"
Exterior Wall	# 4	12	2'-7"

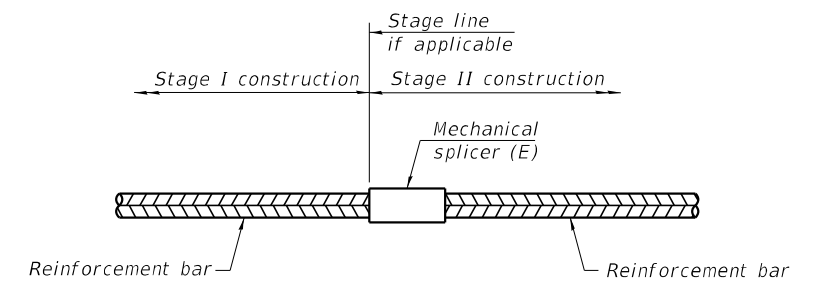


**INSTALLATION AND SETTING METHODS**

"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

**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

1-1-2020



USER NAME =	DESIGNED - TRC	REVISED -
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PLOT DATE =	CHECKED - TRC	REVISED -

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BAR SPLICER ASSEMBLY AND MECHANICAL SPLICER DETAILS  
STRUCTURE NO. 083-2025

SHEET NO. 12 OF 20 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
132	1B-2	SALINE	76	48
CONTRACT NO. 78680			ILLINOIS FED. AID PROJECT	







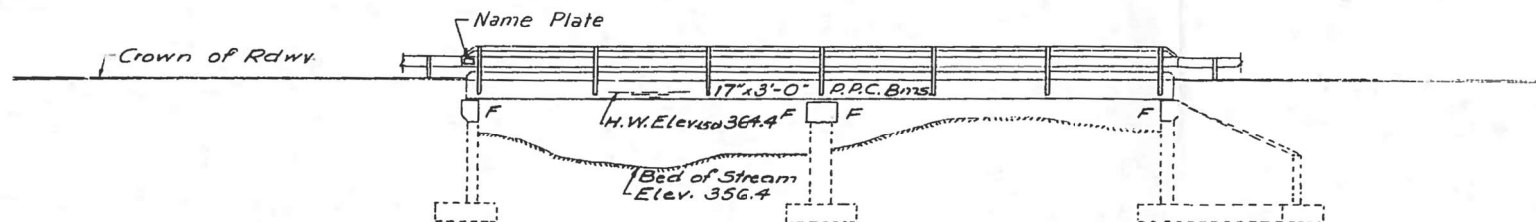
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. /
F.A. 132	1B-1-DR	Saline	125	64	7 SHEETS

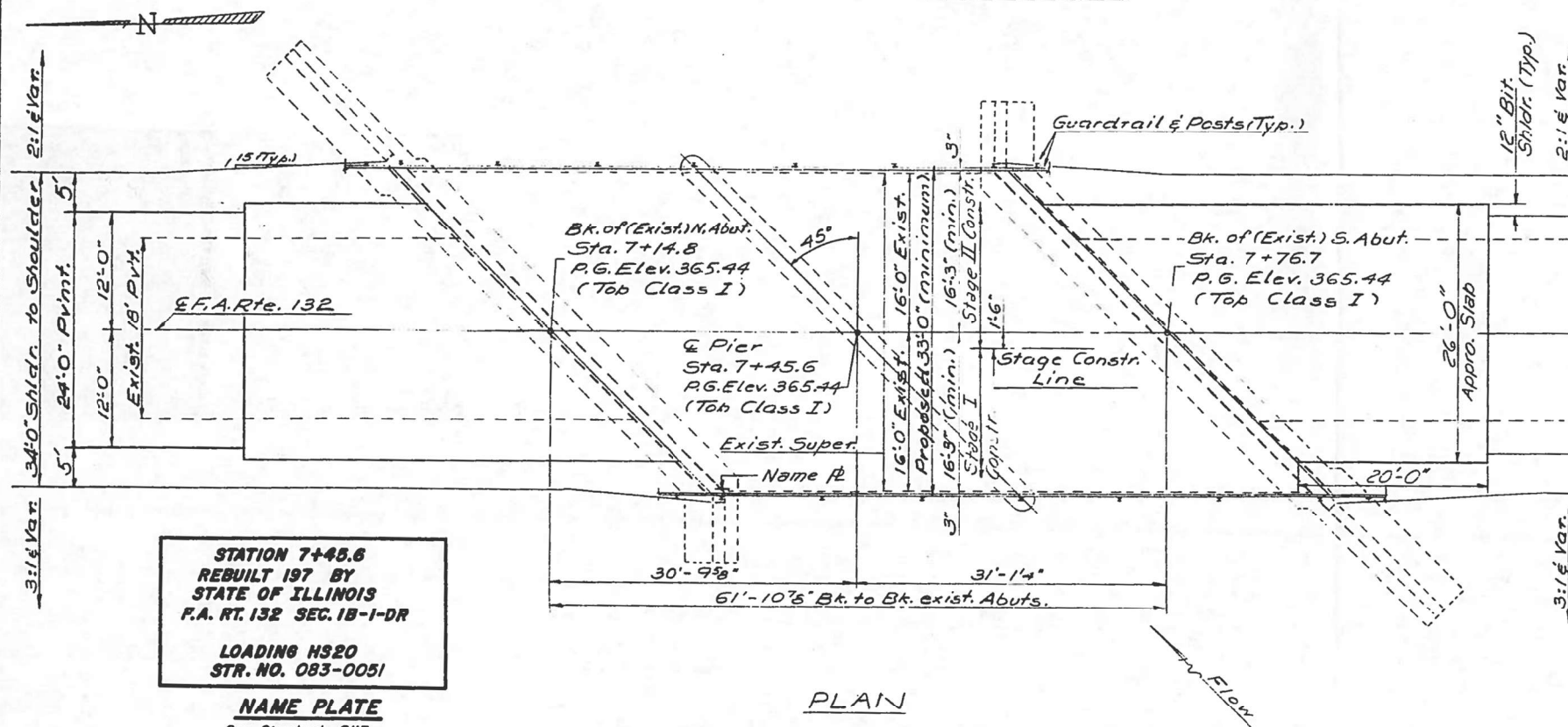
B.M.: R.R. Spike in Power Pole, 32' Left Sta. 8+35  
Elevation 365.41.  
Existing structure: Built as S.B.I. Route 34  
Section 1-B, 1-B-1 R.C. slab on R.C. closed  
abutments and pier. 0 to 0-32'-0", built in 1924  
and 1934. The contractor shall remove the super-  
structure using stage construction so as to  
provide traffic lane at all times. Widen the  
existing substructure. Structure No 083-0017.  
No salvage.

GENERAL NOTES

It shall be the responsibility of the Contractor to verify all dimensions and conditions existing in the field prior to construction and ordering of materials.  
Expansion bolts shall consist of self drilling expansion anchors and 3/4" x 12" hooked bolts.  
Shoulder transition to wingwalls shall be shaped with broken concrete, cost incidental.  
The top surface of the beams shall be finished in accordance with Article 505.06 of the Standard Specifications except that the surface shall not be roughened by brooming. The finished surface shall be free of depressions or high spots with sharp corners.  
Protective Coat shall not be applied to surfaces to which Waterproofing Membrane System is applied.  
Reinforcement bars shall conform to the requirements of AASHTO: M-31, Grade 60.



ELEVATION

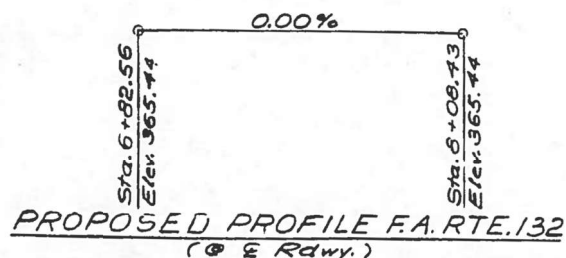


STATION 7+45.6  
REBUILT 197 BY  
STATE OF ILLINOIS  
F.A. RT. 132 SEC. 1B-1-DR  
  
LOADING HS20  
STR. NO. 083-0051

NAME PLATE  
See Standard 2113

TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Bituminous Concrete Surface Course, Class I	Tons	18		18
Waterproofing Membrane System	Sq.Yds.	219		219
Temporary Guard Rail	Lin. Ft.	62		62
Protective Coat	Sq.Yds.	21		21
Portland Cement Mortar Fairing Course	Lin. Ft.	620		620
Concrete Removal	Cu.Yds.		6	6
Expansion Bolts (3/4" dia)	Each		136	136
Class X Concrete	Cu.Yds.	3.7	16.9	20.6
Precast Prestressed Concrete Deck Beams (17")	Sq.Ft.	2046		2046
Removal of Existing Superstructure	Each	1		1
Steel Railing Type T	Lin. Ft.	124		124
Reinforcement Bars	Pounds	160	1400	1560
Name Plates	Each	1		1



DESIGNED John A. Morris  
CHECKED Paul H. Barnett  
DRAWN P. Barnett  
CHECKED Jani

EXAMINED [Signature]  
PASSED [Signature]  
APPROVED [Signature]

AUGUST 29 1977

WATERWAY INFORMATION

Drainage Area 4.05 Sq. Mi.  
Character: cultivated, pasture, timber  
Existing Opening Bridge 129 Sq. Ft.  
Low Approach 800 Sq. Ft.  
Proposed Opening Bridge 172 Sq. Ft.  
Low Approach 800 Sq. Ft.  
Design Discharge (50 yr) 1400 cfs  
Created Head for Design Flood 0.2 ft.  
100 year Discharge 1800 cfs  
Created Head for 100 year Flood 0.2 ft.  
All Time HWE = 375.4 ft.  
HWE (50) = 364.4 ft.  
HWE (100) = 364.7 ft.

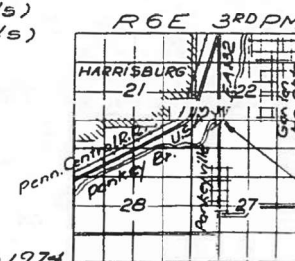
PRECAST PRESTRESSED UNITS

f'c = 5000 psi  
f'ci = 4,000 psi  
f's = 270,000 psi (1/2" strands)  
f'si = 189,000 psi (1/2" strands)

FIELD UNITS

f'c = 3500 psi  
f'y = 60,000 psi (reinf.)

Loading HS20-44  
Allow 25\*/sq. Ft. for future W.S.  
Design Specifications: 1973 AASHTO, 1974  
1975 and 1976 Interim Specifications (as applicable)



LOCATION SKETCH

GENERAL PLAN & ELEVATION  
F.A. RTE. 132 OVER PANKEY BRANCH  
F.A. RTE. 132 SEC. 1B-1-DR

SALINE COUNTY  
STA. 7+45.60



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

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

EXISTING STRUCTURE PLANS  
STRUCTURE NO. 083-2025

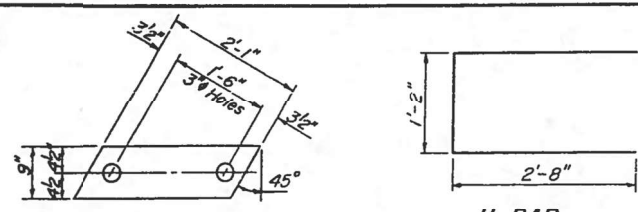
SHEET NO. 15 OF 20 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
132	1B-2	SALINE	76	51
CONTRACT NO. 78680				

ILLINOIS FED. AID PROJECT

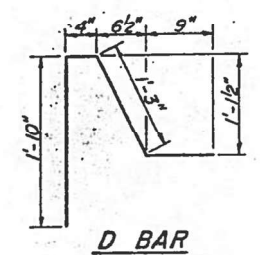
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO.
132	1B-2	Saline	125	65	7

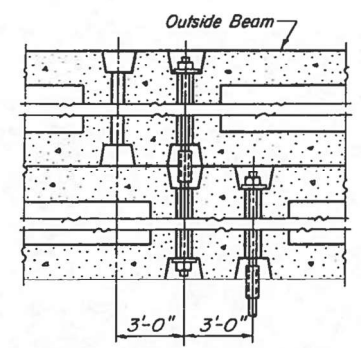


FABRIC BEARING PAD

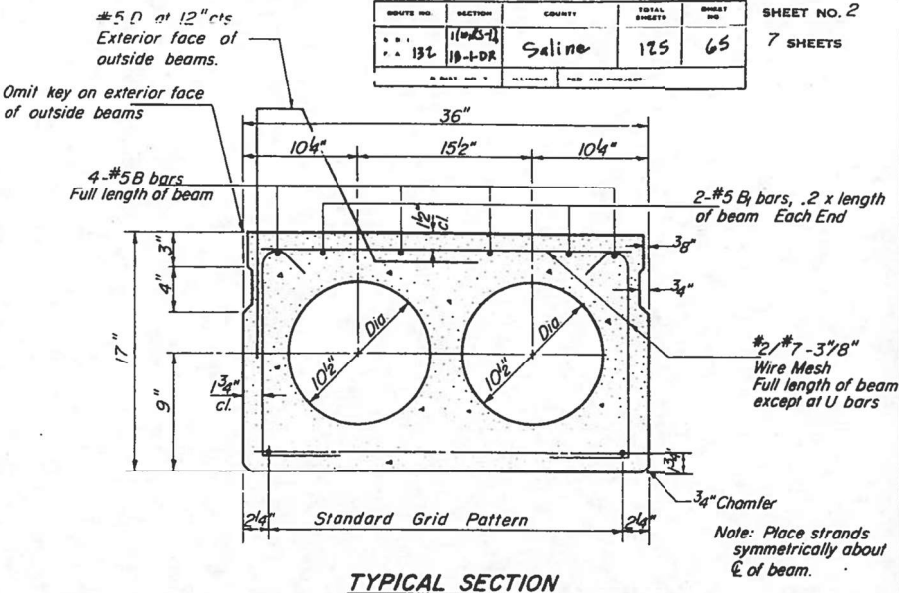
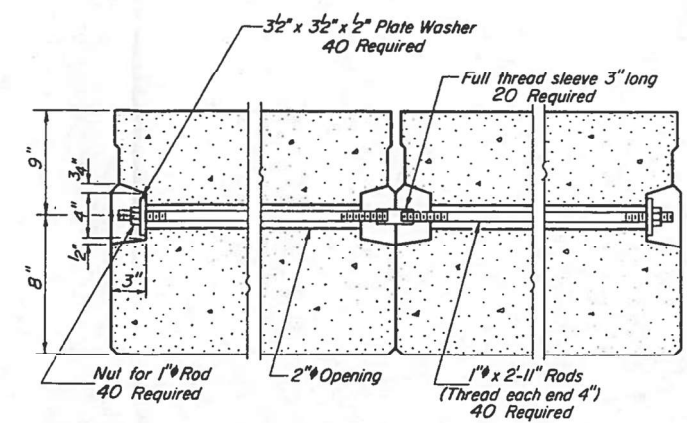
U1 BAR



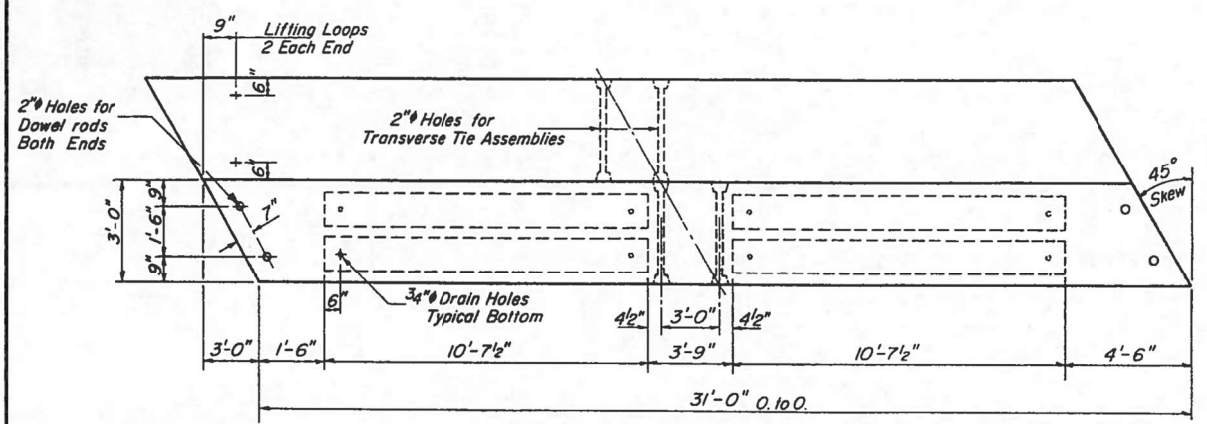
D BAR



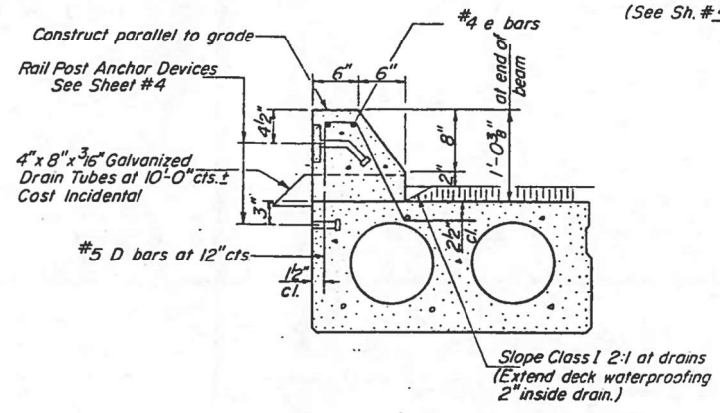
TYPICAL TRANSVERSE TIE ASSEMBLY



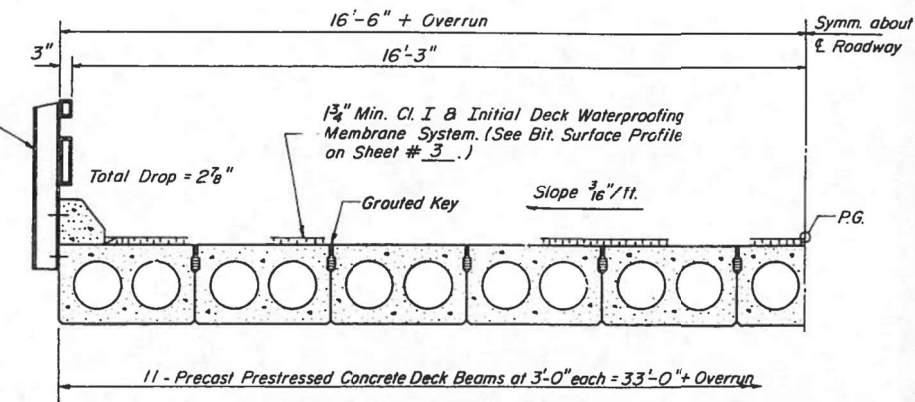
TYPICAL SECTION  
7-1/4 Strands, Each Strand Stressed to 28,900 Pounds  
7-Strands 1 3/4 up,



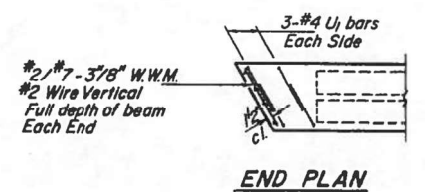
PLAN



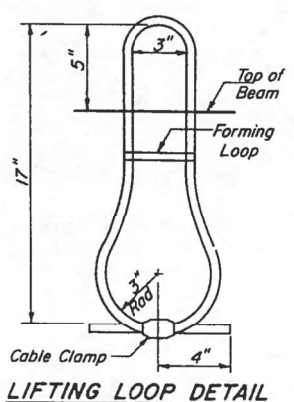
SECTION THRU CURB  
Curbs shall be poured in the field.  
Class X Concrete & e bars for curbs  
are billed on Sheet #4.



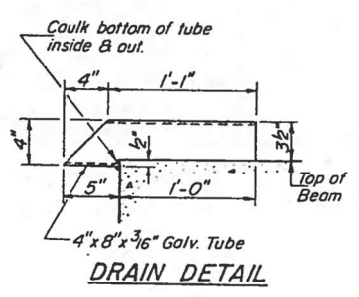
HALF CROSS SECTION



END PLAN



LIFTING LOOP DETAIL



DRAIN DETAIL

NOTES

Prestressing steel shall be non-galvanized high strength, stress-relieved 7-wire strand, Grade 270. The nominal diameter shall be 1/2 inch and the nominal cross-sectional area shall be .153 sq. in. Lifting loops shall be 1/2 inch diameter, 6 x 25 class wire rope with fiber core and shall have a minimum ultimate tensile strength of 21,000 lbs. The 1 inch rods in the transverse tie assembly shall be tightened to a snug fit and the threads set. Pockets that receive transverse tie bar on outside shall be filled with grout after transverse tie assembly is in place. Longitudinal shear keys shall be packed with a very dry mix of 2:1 sand and PC mortar. After beams have been erected, holes for the dowel anchors shall be drilled into the sub-structure and the anchor dowels shall be grouted in place. Reinforcement Bars shall conform to A.A.S.H.T.O. M-31 or M-53, Grade 60.

Cost of reinforcement and accessories cast into the beam, of bearing pads, dowel rods and of grouting longitudinal shear keys is included in unit price bid for "Precast Prestressed Concrete Deck Beams."

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
Precast Prestressed Concrete Deck Beams		Sq. Ft.	2046	

SUPERSTRUCTURE  
F.A. RT. 132 SEC. 1B-1-DR  
SALINE COUNTY  
STA. 7+45.6

DESIGNED	John A. Morris	EXAMINED	Aug. 29 1977
CHECKED	Paul J. Barnett	PASSED	
DRAWN	P. Barnett	APPROVED	
CHECKED	gah		

PD-1-R 7-15-75



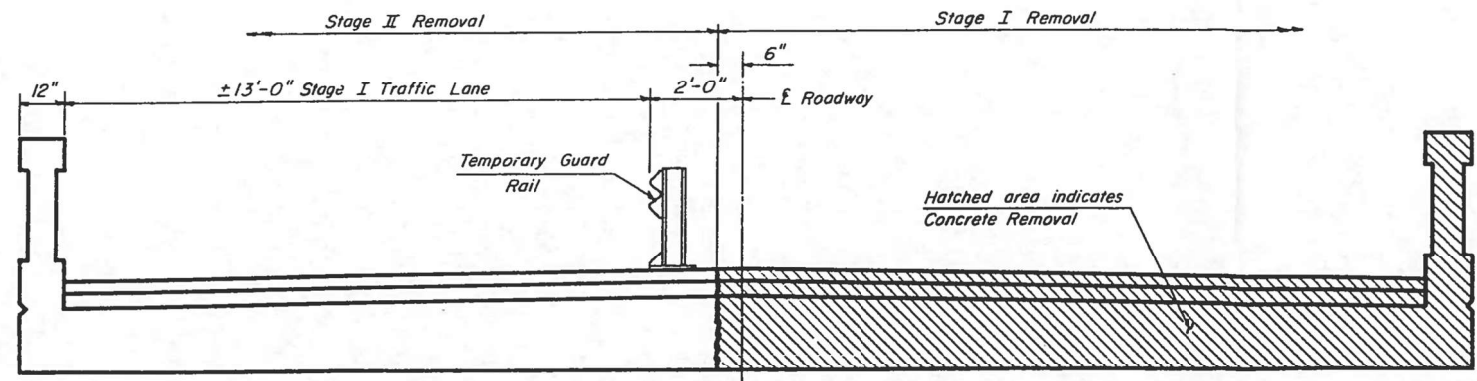
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PLOT SCALE =	CHECKED - MAH	REVISED -
PLOT DATE =	DRAWN - JRP	REVISED -
	CHECKED - TRC	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

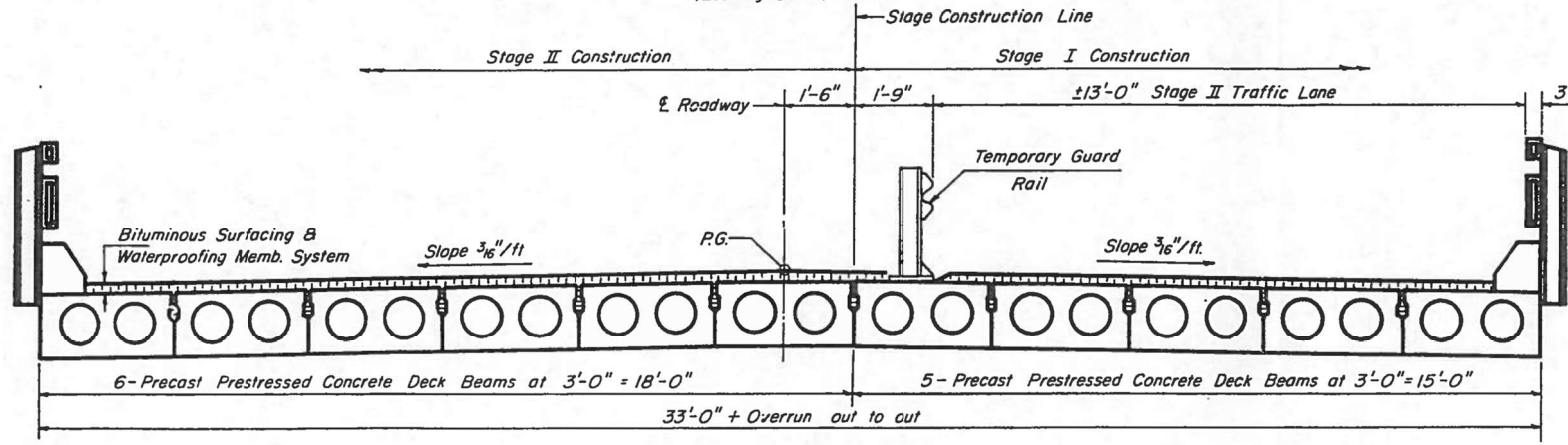
EXISTING STRUCTURE PLANS  
STRUCTURE NO. 083-2025

SHEET NO. 16 OF 20 SHEETS

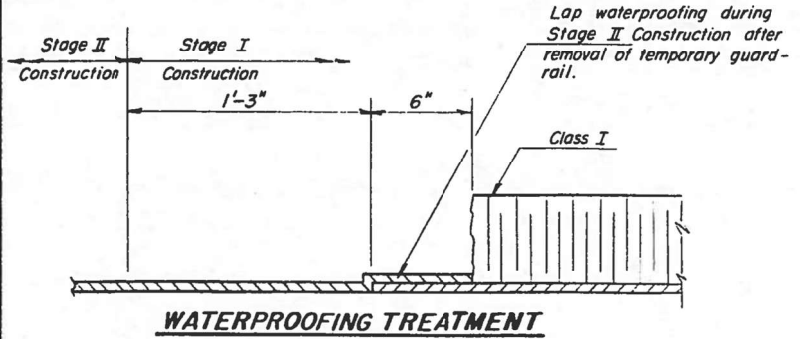
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
132	1B-2	SALINE	76	52
CONTRACT NO. 78680			ILLINOIS FED. AID PROJECT	



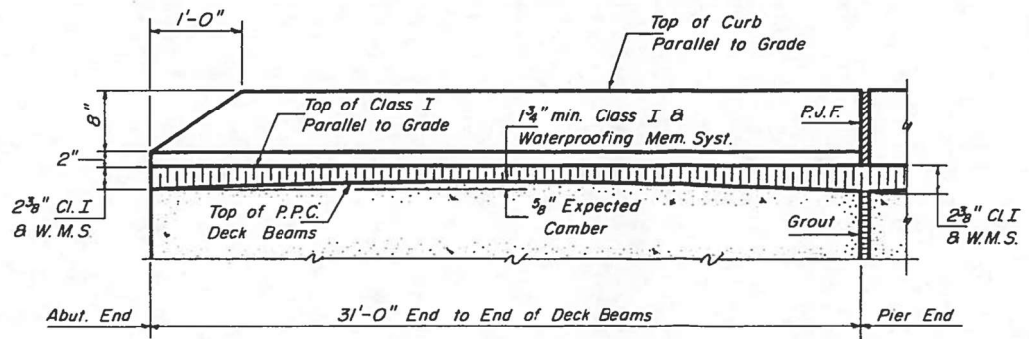
**STAGE REMOVAL**  
(Looking South)



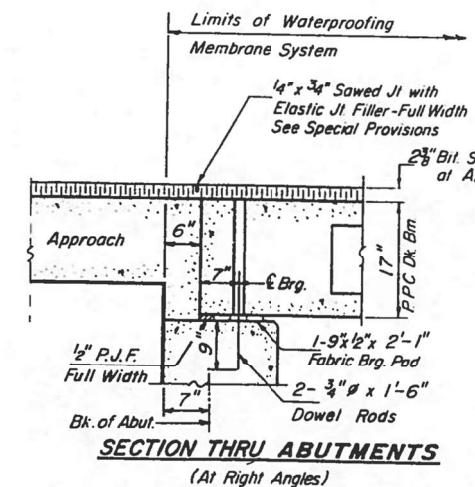
**STAGE CONSTRUCTION**



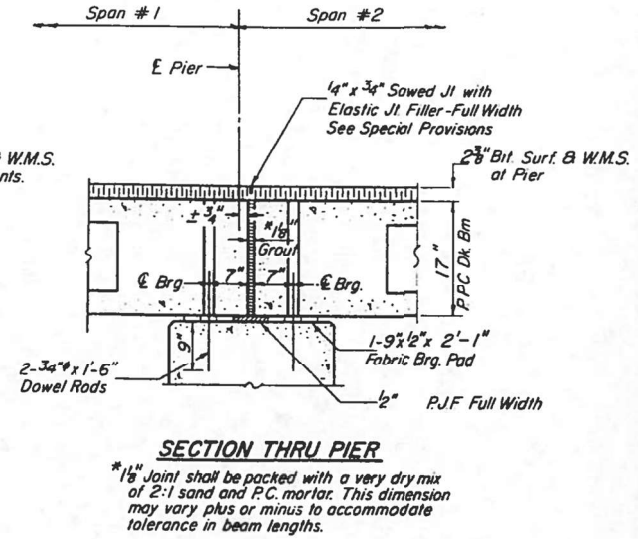
**WATERPROOFING TREATMENT**



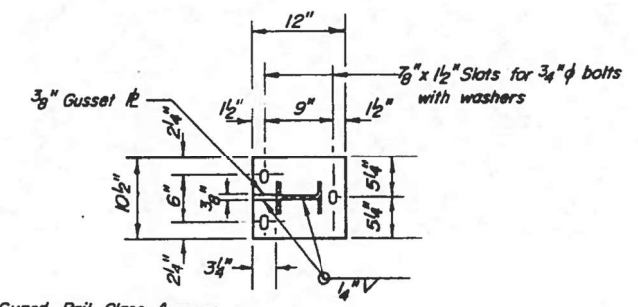
**CURB & BITUMINOUS SURFACE PROFILE**



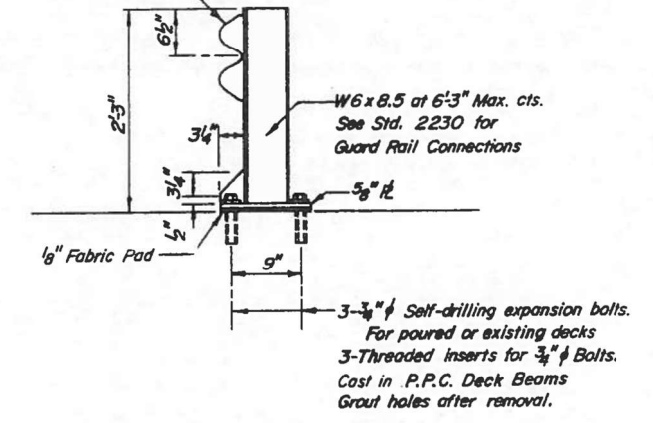
**SECTION THRU ABUTMENTS**  
(At Right Angles)



**SECTION THRU PIER**



**Guard Rail, Class A**



**TEMPORARY GUARD RAIL DETAIL**  
See Special Provisions

(Repair damaged waterproofing & overlap second stage waterproofing with first stage waterproofing.)

**SUPERSTRUCTURE DETAILS**  
F.A. RT. 132 SEC. 1B-1-DR  
SALINE COUNTY  
STA. 7+45.6

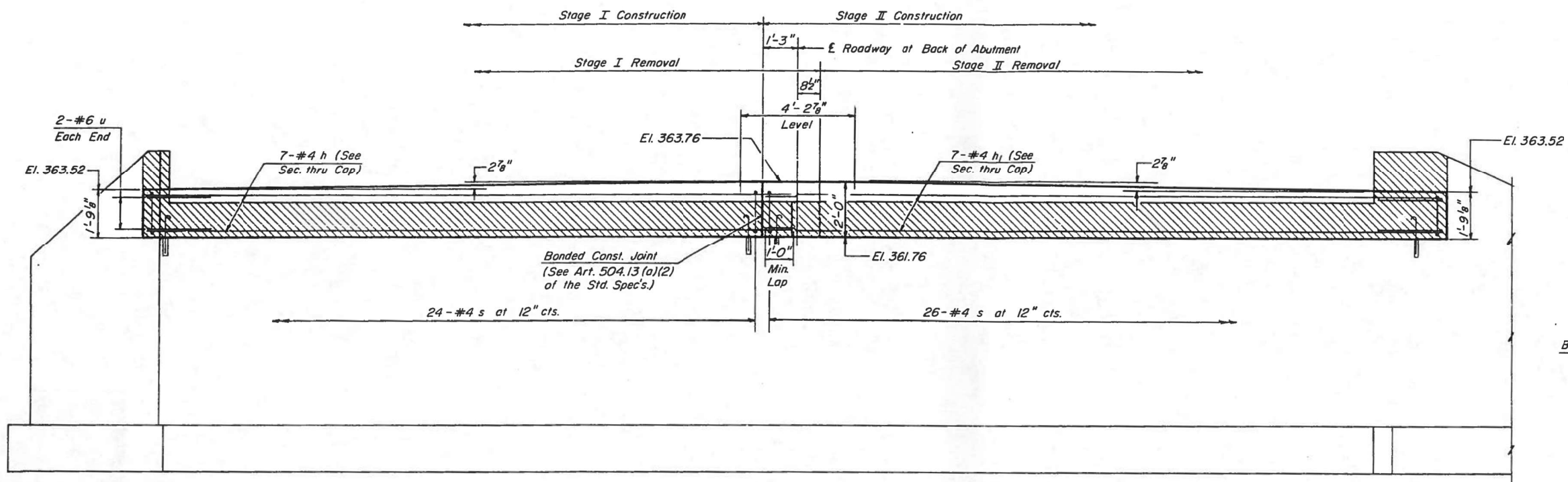
DESIGNED	John A. Morris	EXAMINED	Aug 29 1977
CHECKED	Paul H. Barnett	PASSED	
DRAWN	P. Barnett	APPROVED	
CHECKED	Jam		

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

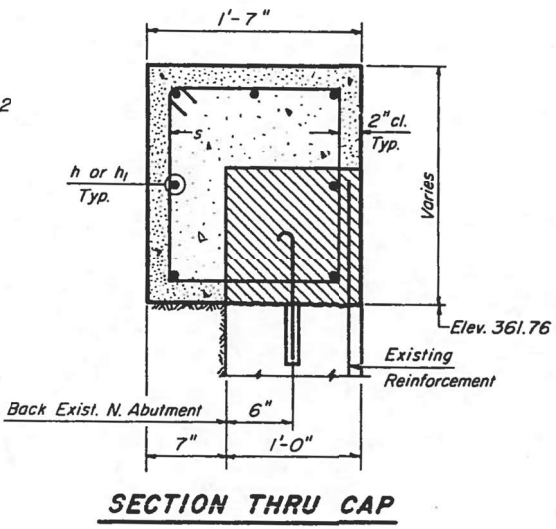
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
132	1B-2	SALINE	76	53
CONTRACT NO. 78680				
ILLINOIS FED. AID PROJECT				

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

PROJECT NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. 5
F.A.P. 132	1B-1DR	Saline	125	68	7 SHEETS
ILLINOIS		FED. AID PROJECT			

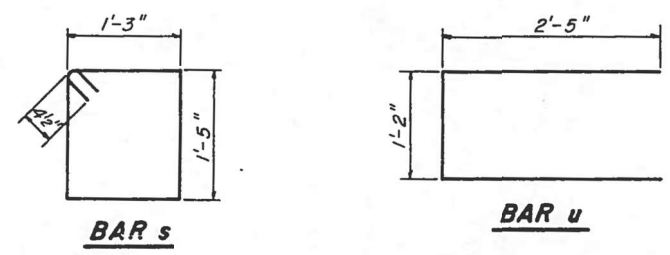


**ELEVATION**



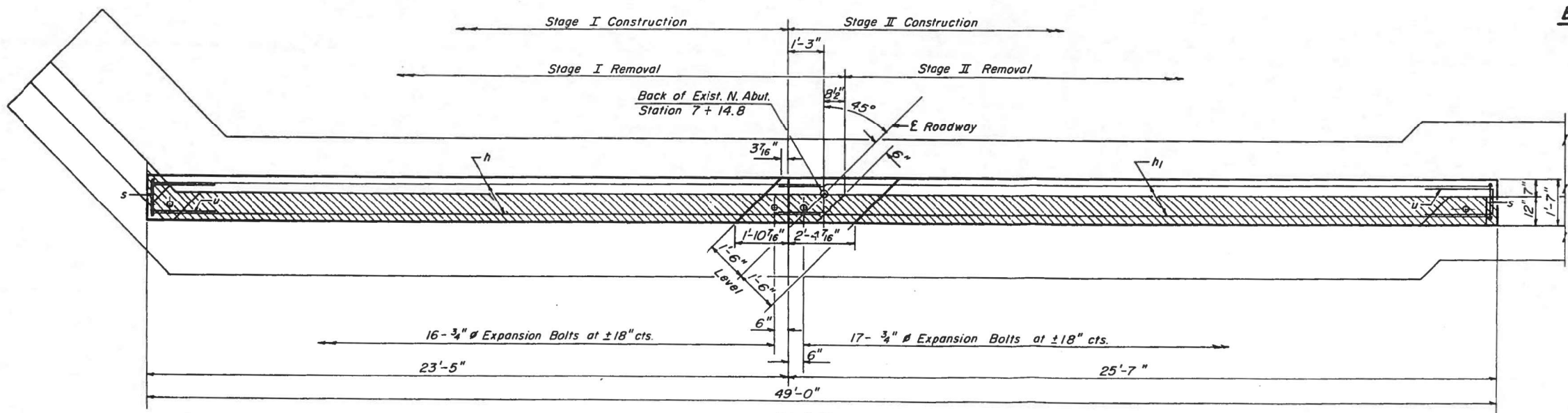
**SECTION THRU CAP**

Notes:  
Hatched area indicates Concrete Removal.  
Existing reinforcement shall be cleaned and incorporated into new construction.  
Expansion bolts shall be anchored in sound concrete.



**BAR s**

**BAR u**



**PLAN**

**ONE ABUTMENT  
BILL OF MATERIAL**

BAR	NO	SIZE	LENGTH	SHAPE
h	7	#4	24'-6"	—
h <sub>1</sub>	7	#4	25'-3"	—
s	50	#4	6'-1"	□
u	4	#6	6'-0"	□
			Class X Concrete	Cu Yds. 54
			Reinforcement Bars	Pounds 470
			Concrete Removal	Cu.Yds. 2.0
			Expansion Bolts (3/4" #)	Each 33

**NORTH ABUTMENT**  
F.A. RT. 132 SEC. 1B-1-DR  
SALINE COUNTY  
STA. 7+45.6

DESIGNED *John A. Morris*  
CHECKED *Paul H. Barnett*  
DRAWN *P. Barnett*  
CHECKED *gan*

EXAMINED *[Signature]* AUG. 29 1977  
PASSED  
APPROVED



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

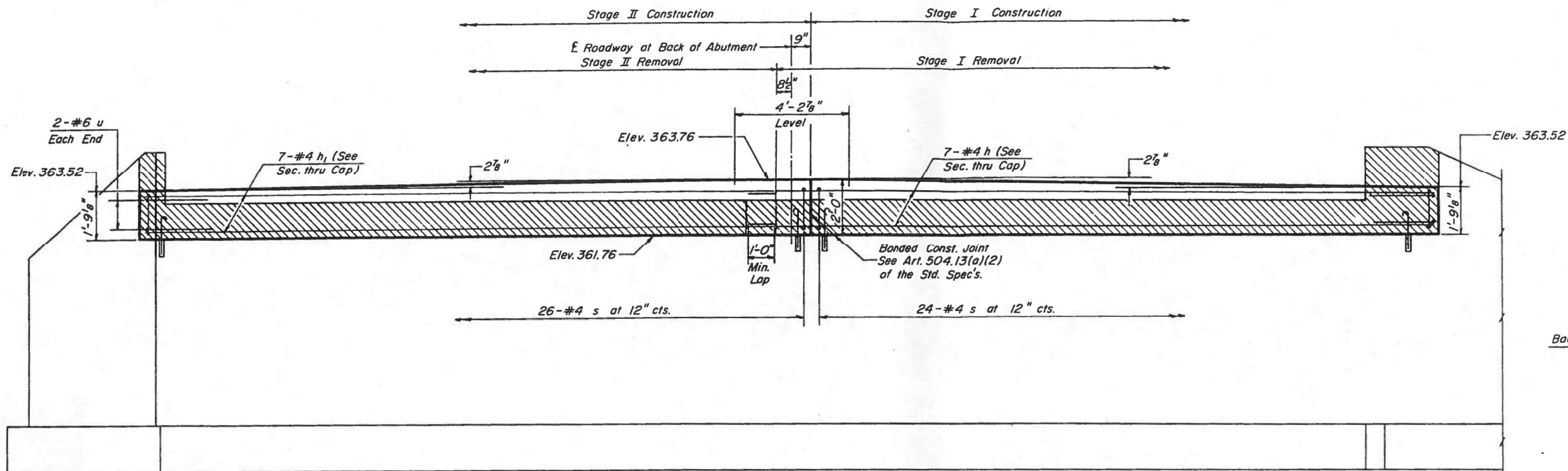
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

EXISTING STRUCTURE PLANS  
STRUCTURE NO. 083-2025  
SHEET NO. 18 OF 20 SHEETS

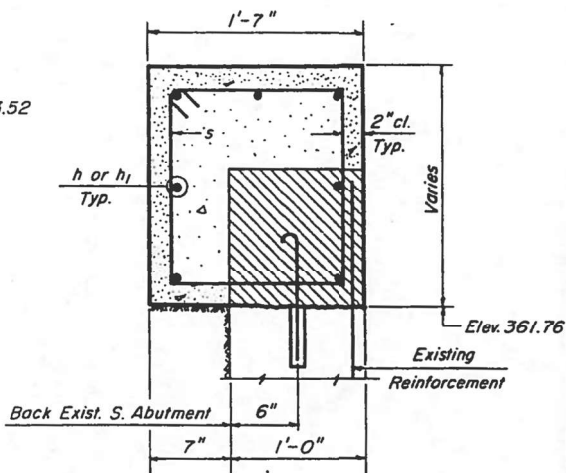
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
132	1B-2	SALINE	76	54
			CONTRACT NO. 78680	
ILLINOIS FED. AID PROJECT				

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

PROJECT NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. 6
F.A. 132	1B-1-DR	Saline	125	61	7 SHEETS
"AS BUILT" NO. 7					

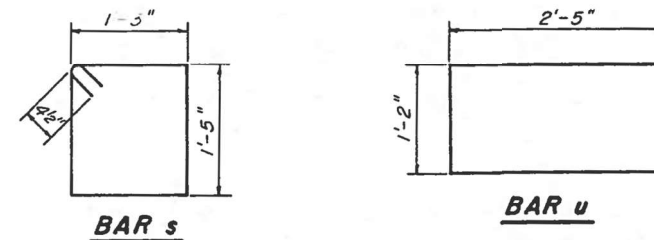


**ELEVATION**



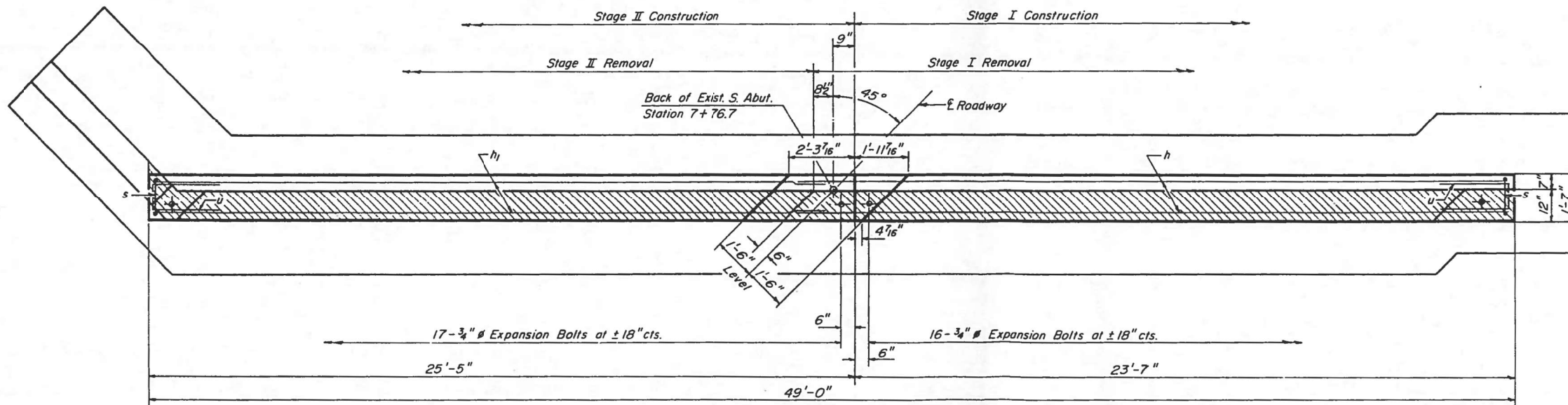
**SECTION THRU CAP**

Notes:  
Hatched area indicates Concrete Removal.  
Existing reinforcement shall be cleaned and incorporated into new construction.  
Expansion bolts shall be anchored in sound concrete.



**BAR s**

**BAR u**



**PLAN**

**ONE ABUTMENT  
BILL OF MATERIAL**

BAR	NO	SIZE	LENGTH	SHAPE
h	7	#4	24'-6"	—
h1	7	#4	25'-3"	—
s	50	#4	6'-1"	□
u	4	#6	6'-0"	—
Class X Concrete			Cu. Yds.	5.4
Reinforcement Bars			Pounds	470
Concrete Removal			Cu. Yds.	2.0
Expansion Bolts (3/4" Ø)			Each	33

**SOUTH ABUTMENT**  
F.A. RT. 132 SEC. 1B-1-DR  
SALINE COUNTY  
STA. 7+45.6

DESIGNED	John A. Morris	EXAMINED	Aug. 29, 1917
CHECKED	Paul H. Barnett	PASSED	
DRAWN	P. Barnett	APPROVED	
CHECKED	JAM		



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

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

EXISTING STRUCTURE PLANS  
STRUCTURE NO. 083-2025

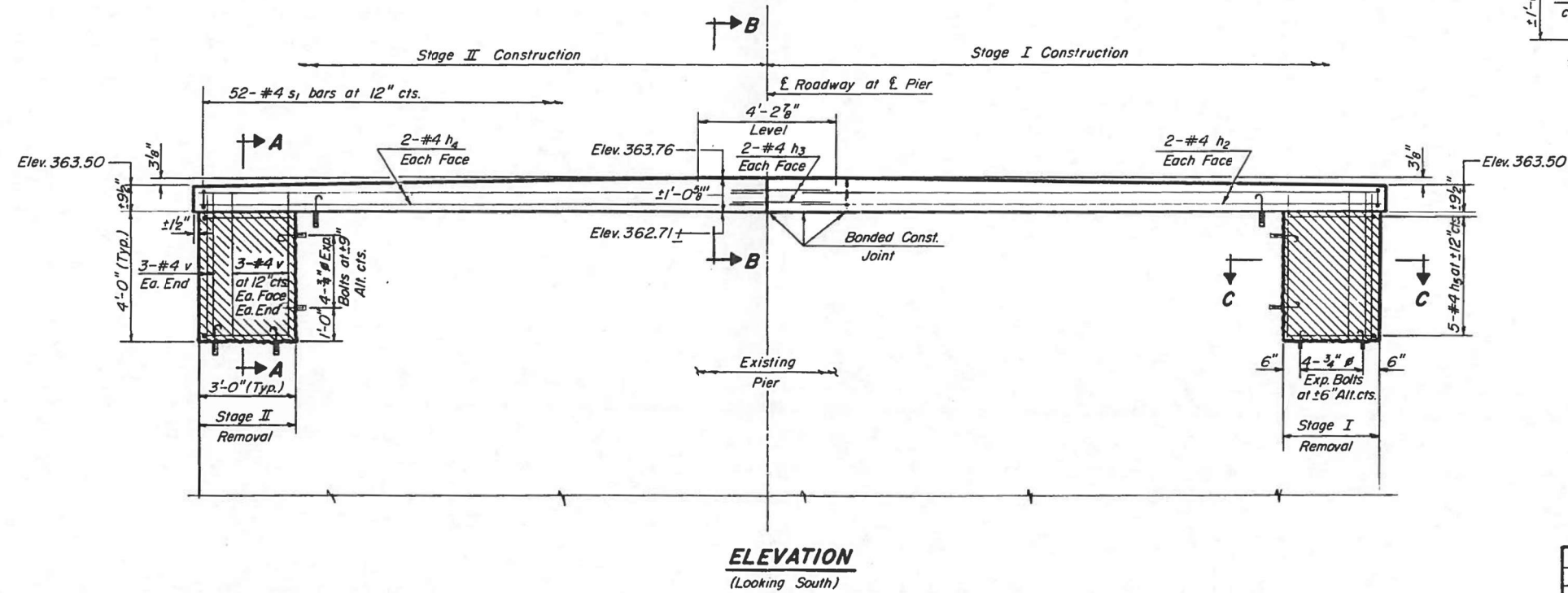
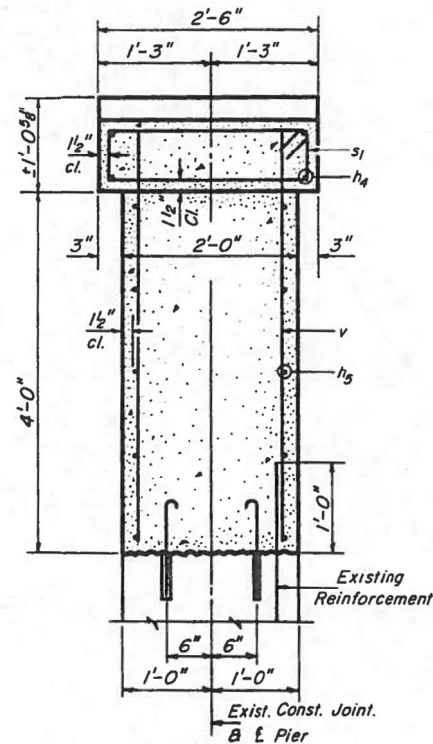
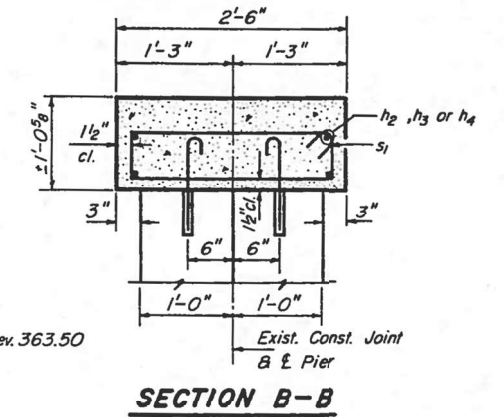
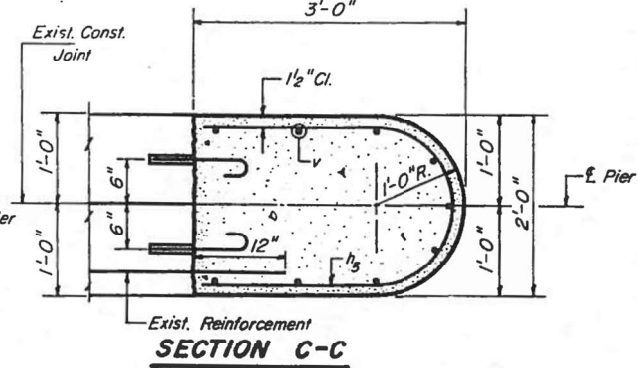
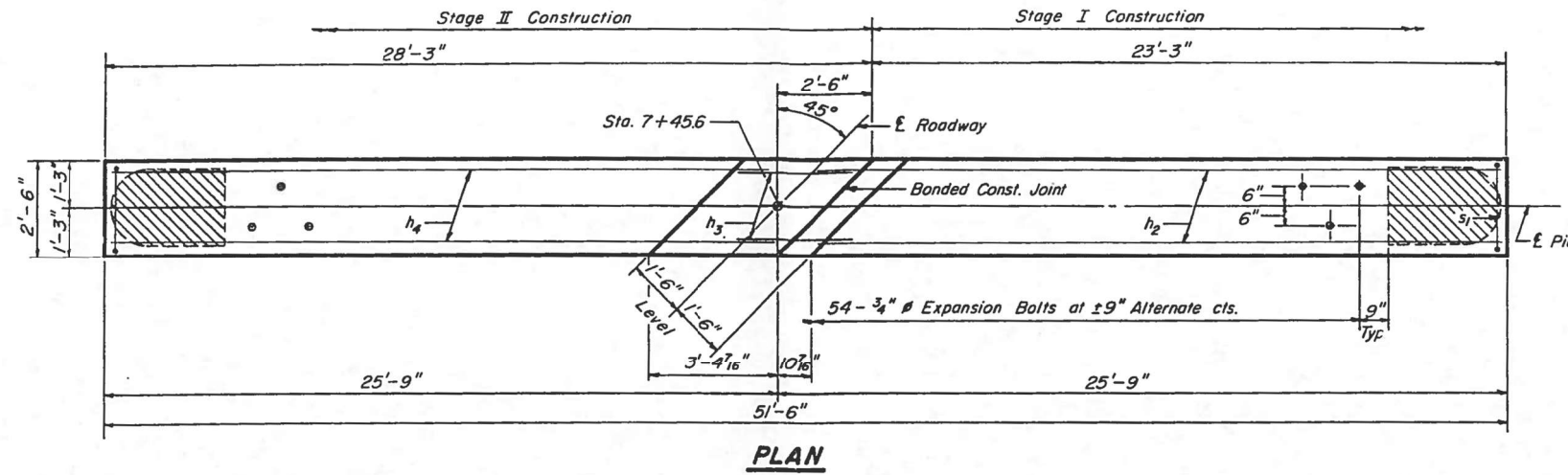
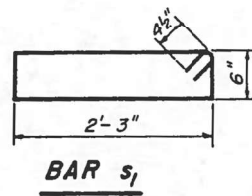
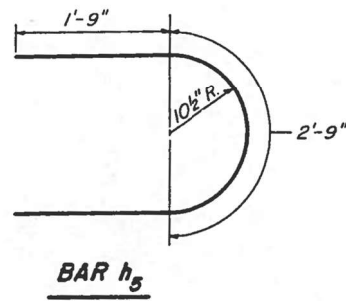
SHEET NO. 19 OF 20 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
132	1B-2	SALINE	76	55
CONTRACT NO. 78680				

ILLINOIS FED. AID PROJECT

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. 7 7 SHEETS
F.A. 132	1B-1-DR	Saline	125	70	



Notes:  
Hatched area indicates Concrete Removal.  
Existing reinforcement shall be cleaned and incorporated into new construction.  
Expansion Bolts shall be anchored in sound concrete.

**PIER  
BILL OF MATERIAL**

BAR	NO	SIZE	LENGTH	SHAPE
h <sub>2</sub>	4	#4	24'-6"	—
h <sub>3</sub>	4	#4	4'-0"	—
h <sub>4</sub>	4	#4	25'-6"	—
h <sub>5</sub>	10	#4	6'-3"	U
s <sub>1</sub>	52	#4	6'-3"	□
v	18	#4	4'-6"	—
Class X Concrete			Cu. Yds.	6.1
Reinforcement Bars			Pounds	460
Concrete Removal			Cu. Yds.	2.0
Expansion Bolts (3/4" #)			Each	70

**PIER  
F.A. RT. 132 SEC. 1B-1-DR  
SALINE COUNTY  
STA. 7+45.6**

DESIGNED	John A. Morris	EXAMINED	Aug. 29 1977
CHECKED	Paul H. Barnett	PASSED	
DRAWN	P. Barnett	APPROVED	
CHECKED	JAM.		



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

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

EXISTING STRUCTURE PLANS  
STRUCTURE NO. 083-2025

SHEET NO. 20 OF 20 SHEETS

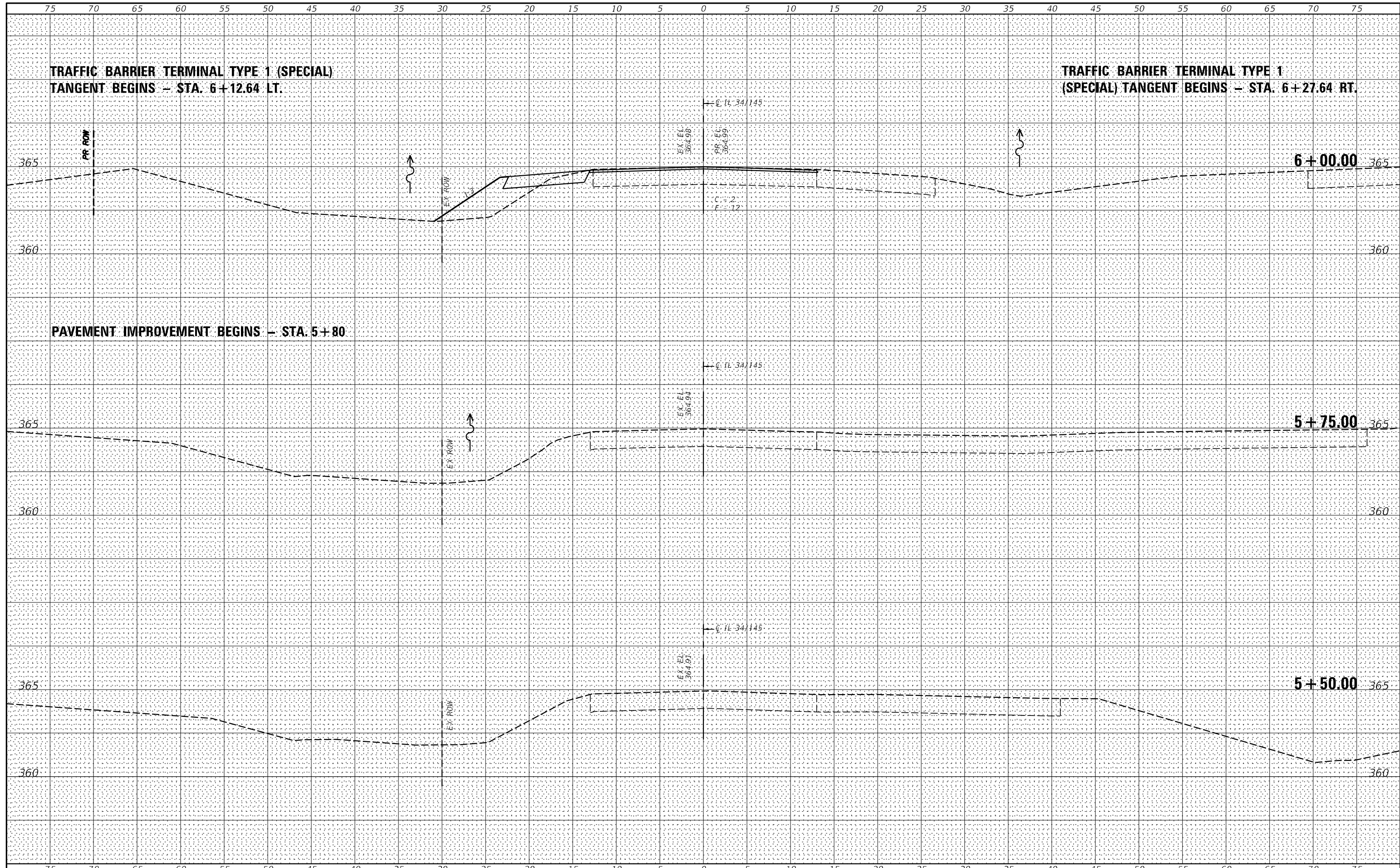
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
132	1B-2	SALINE	76	56
			CONTRACT NO. 78680	

ILLINOIS FED. AID PROJECT



DATE \_\_\_\_\_  
 BY \_\_\_\_\_  
 SURVEYED \_\_\_\_\_  
 PLOTTED \_\_\_\_\_  
 TEMPLATE \_\_\_\_\_  
 NOTE BOOK \_\_\_\_\_  
 AREAS CHECKED \_\_\_\_\_  
 NO. \_\_\_\_\_

DATE \_\_\_\_\_  
 BY \_\_\_\_\_  
 SURVEYED \_\_\_\_\_  
 PLOTTED \_\_\_\_\_  
 TEMPLATE \_\_\_\_\_  
 NOTE BOOK \_\_\_\_\_  
 AREAS CHECKED \_\_\_\_\_  
 NO. \_\_\_\_\_



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

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

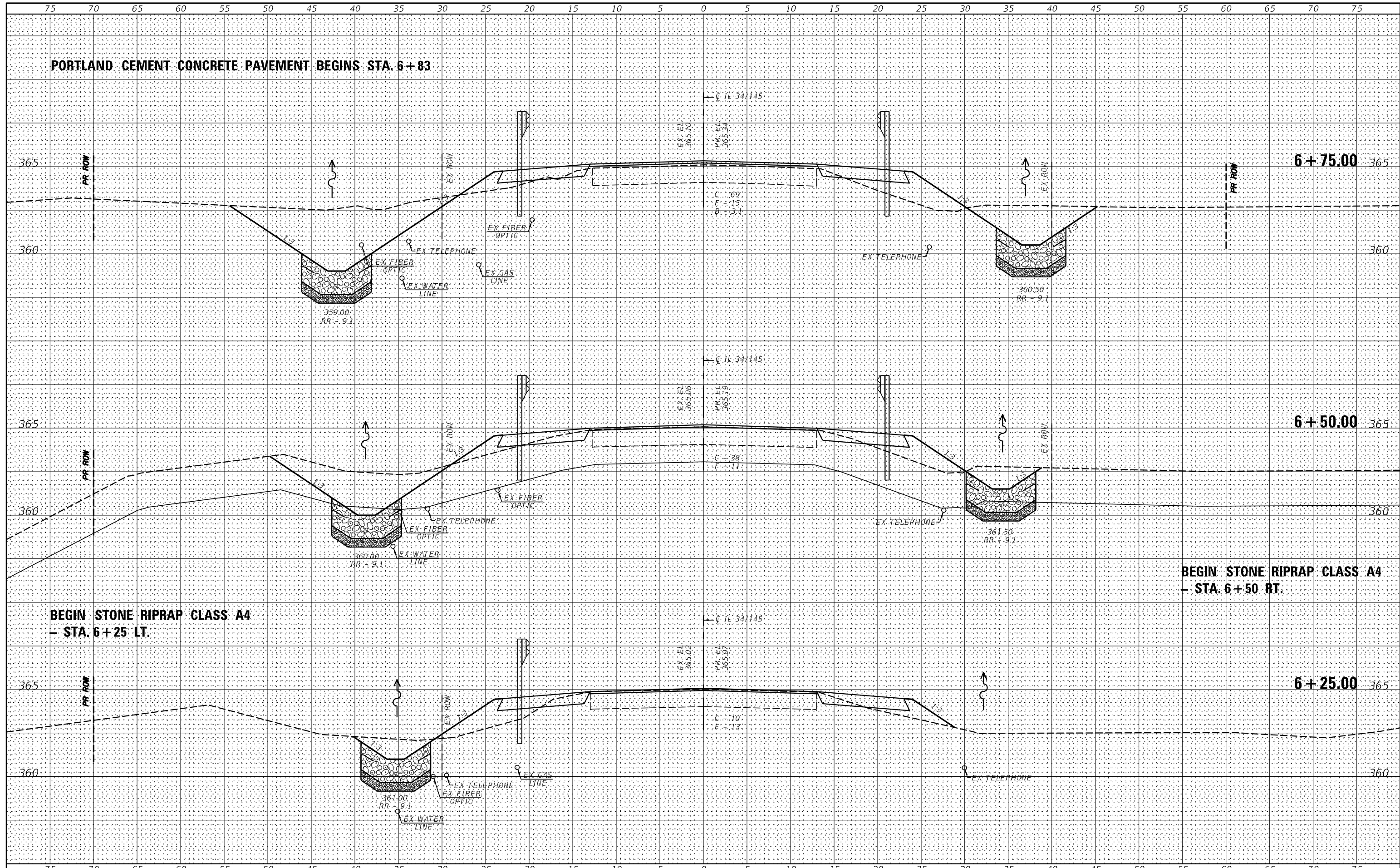
**IL 34 CROSS SECTIONS**

SCALE: \_\_\_\_\_ SHEET NO. \_\_\_ OF \_\_\_ SHEETS STA. 5+75.00 TO STA. 6+00.00

F.A.P. RTE. 132	SECTION 1B-2	COUNTY SALINE	TOTAL SHEETS 76	SHEET NO. 57
CONTRACT NO. 78680				
FED. ROAD DIST. NO. [ ] ILLINOIS FED. AID PROJECT				

BY: \_\_\_\_\_ DATE: \_\_\_\_\_  
 SURVEYED \_\_\_\_\_  
 PLOTTED \_\_\_\_\_  
 TEMPLATE \_\_\_\_\_  
 NOTE BOOK \_\_\_\_\_  
 AREAS CHECKED \_\_\_\_\_  
 NO. \_\_\_\_\_

BY: \_\_\_\_\_ DATE: \_\_\_\_\_  
 SURVEYED \_\_\_\_\_  
 PLOTTED \_\_\_\_\_  
 TEMPLATE \_\_\_\_\_  
 NOTE BOOK \_\_\_\_\_  
 AREAS CHECKED \_\_\_\_\_  
 NO. \_\_\_\_\_



PORTLAND CEMENT CONCRETE PAVEMENT BEGINS STA. 6+83

6+75.00

6+50.00

BEGIN STONE RIPRAP CLASS A4  
- STA. 6+25 LT.

BEGIN STONE RIPRAP CLASS A4  
- STA. 6+50 RT.

6+25.00



USER NAME = \*USER\*  
 PLOT SCALE = \*SCALE\*  
 PLOT DATE = \*DATE\*

DESIGNED -  
 DRAWN -  
 CHECKED -  
 DATE -

REVISED -  
 REVISED -  
 REVISED -  
 REVISED -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

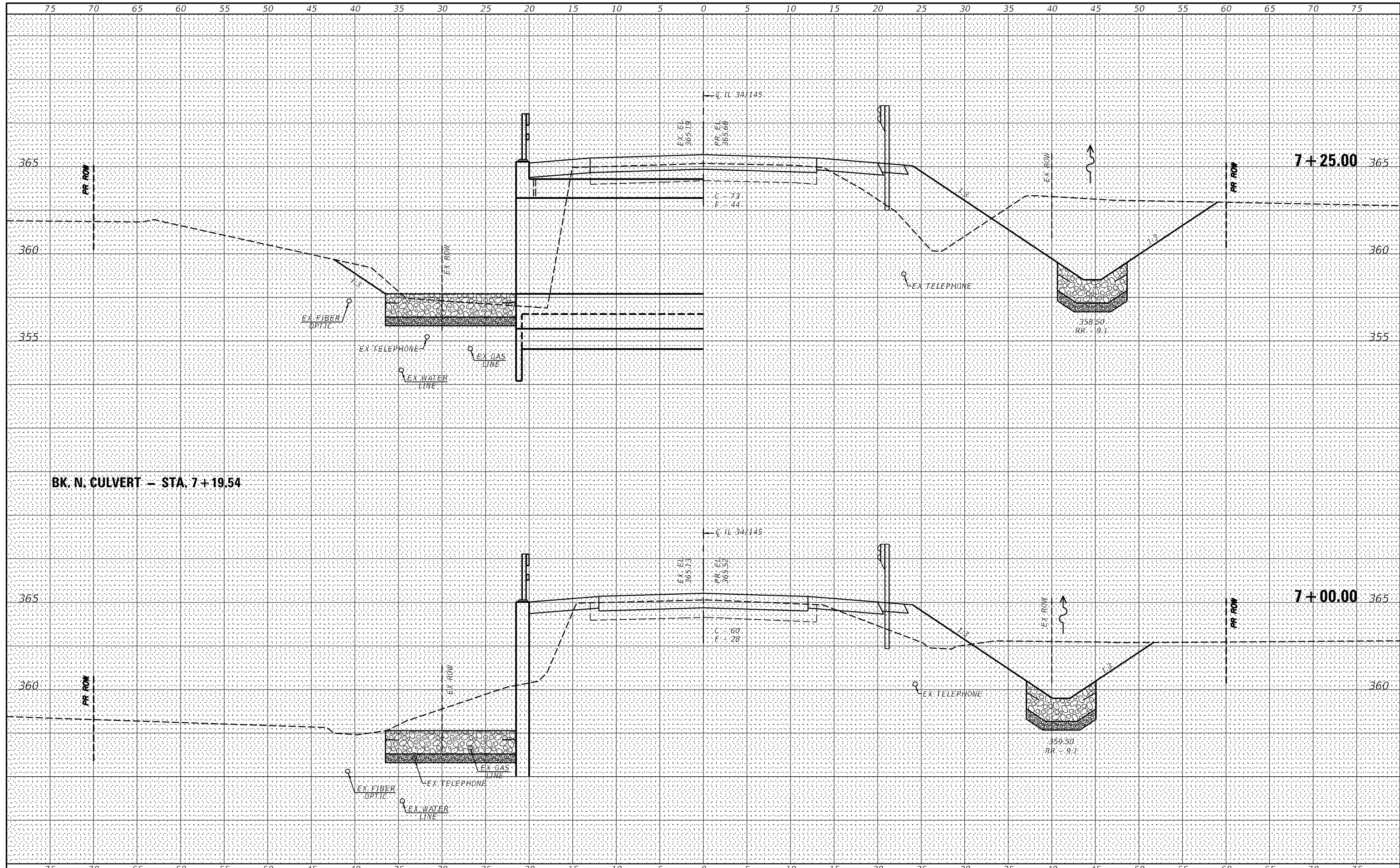
IL 34 CROSS SECTIONS

SCALE: \_\_\_\_\_ SHEET NO. \_\_\_\_ OF \_\_\_\_ SHEETS STA. 6+25.00 TO STA. 6+50.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
132	1B-2	SALINE	76	58
CONTRACT NO. 78680				
FED. ROAD DIST. NO. [ ] ILLINOIS FED. AID PROJECT				

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

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



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

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

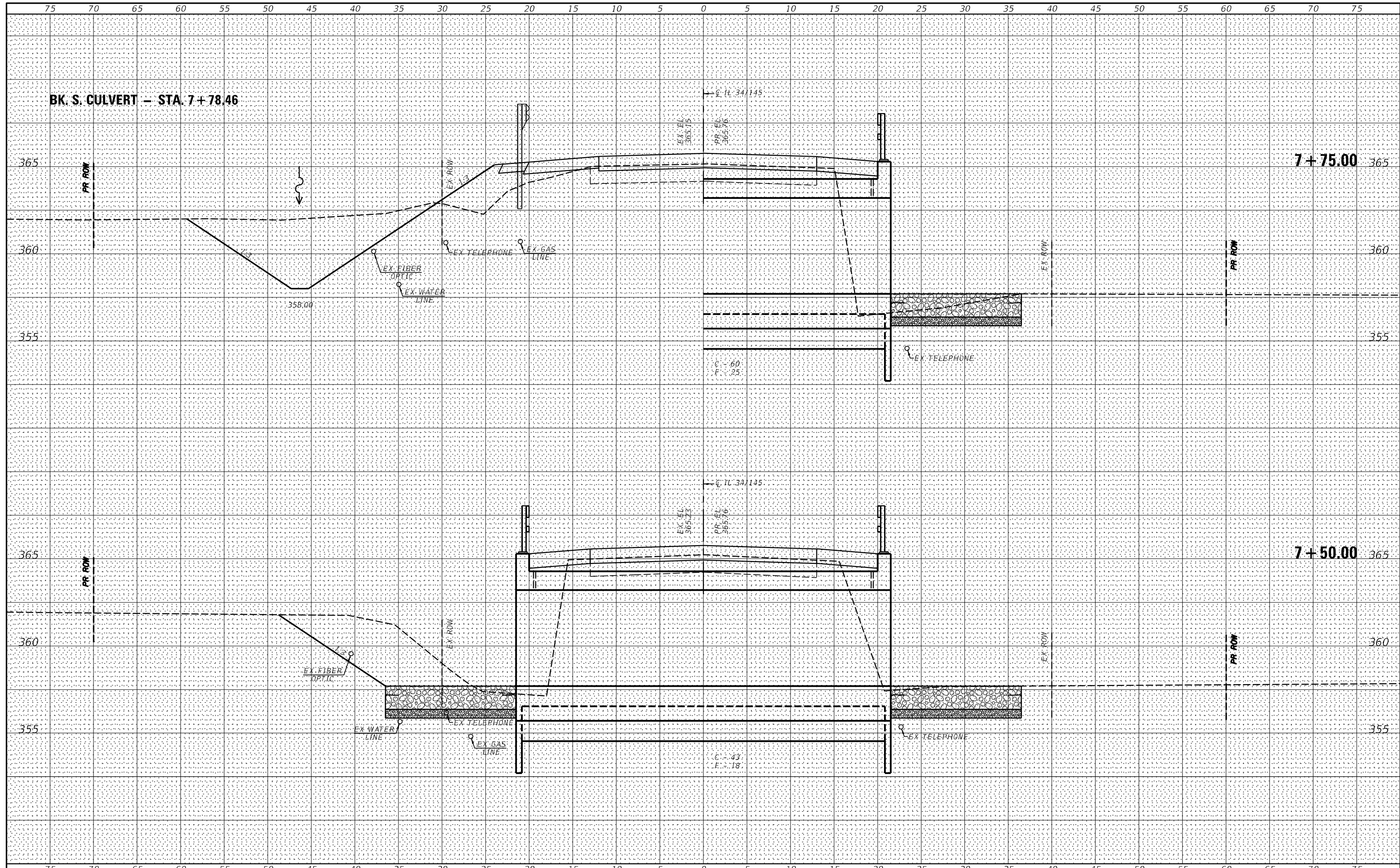
IL 34 CROSS SECTIONS

SCALE: \_\_\_\_\_ SHEET NO. \_\_\_ OF \_\_\_ SHEETS STA. 6+75.00 TO STA. 7+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
132	1B-2	SALINE	76	59
CONTRACT NO. 78680				
FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT				

DATE \_\_\_\_\_  
 BY \_\_\_\_\_  
 SURVEYED \_\_\_\_\_  
 PLOTTED \_\_\_\_\_  
 TEMPLATE \_\_\_\_\_  
 NOTE BOOK \_\_\_\_\_  
 AREAS CHECKED \_\_\_\_\_  
 NO. \_\_\_\_\_

DATE \_\_\_\_\_  
 BY \_\_\_\_\_  
 SURVEYED \_\_\_\_\_  
 PLOTTED \_\_\_\_\_  
 TEMPLATE \_\_\_\_\_  
 NOTE BOOK \_\_\_\_\_  
 AREAS CHECKED \_\_\_\_\_  
 NO. \_\_\_\_\_



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 Springfield, IL Phone: (217)544-8033

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

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

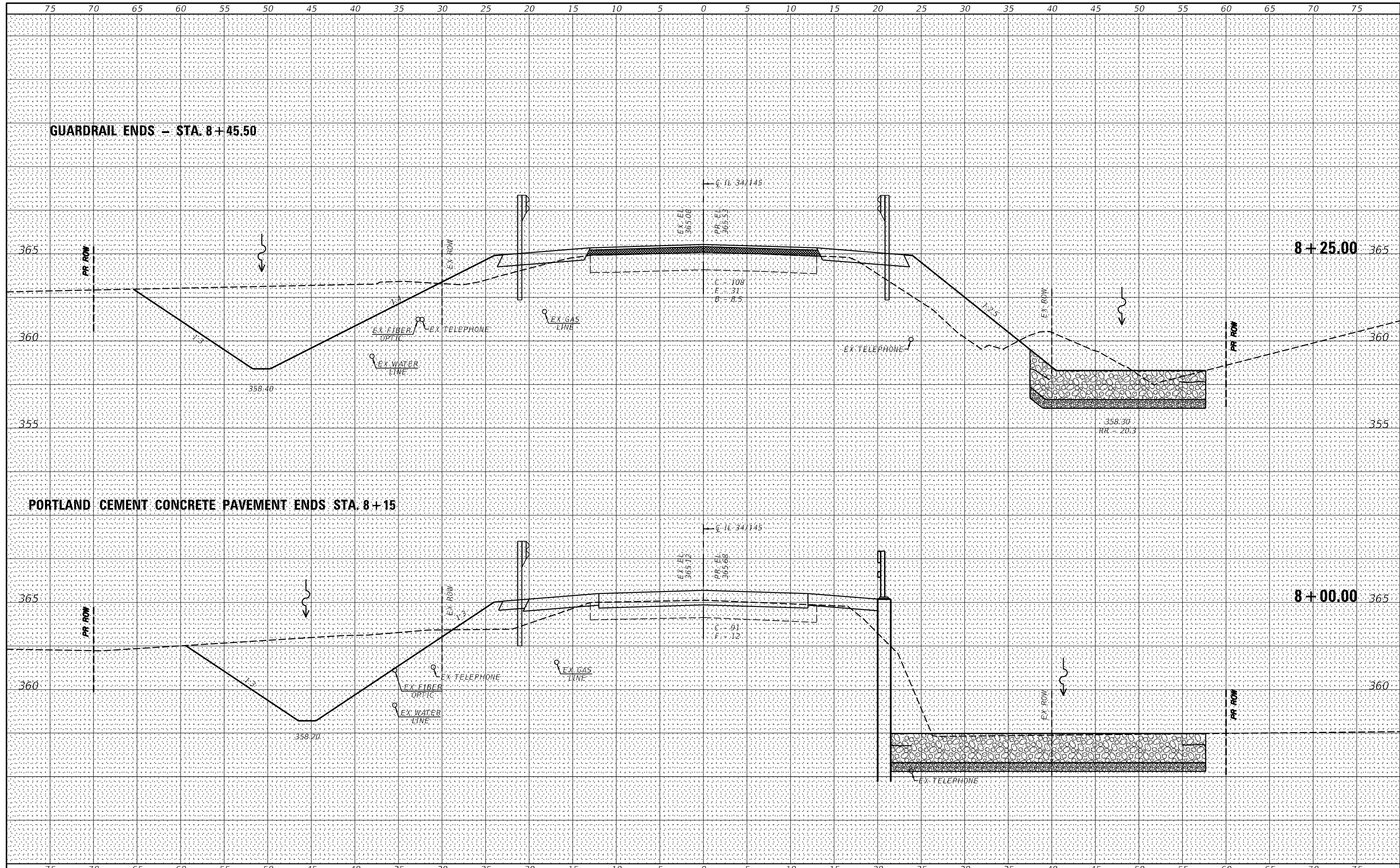
IL 34 CROSS SECTIONS

SCALE: \_\_\_\_\_ SHEET NO. \_\_\_ OF \_\_\_ SHEETS STA. 7+50.00 TO STA. 7+50.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
132	1B-2	SALINE	76	60
CONTRACT NO. 78680				
FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT				

BY: \_\_\_\_\_ DATE: \_\_\_\_\_  
 SURVEYED \_\_\_\_\_  
 PLOTTED \_\_\_\_\_  
 TEMPLATE \_\_\_\_\_  
 NOTE BOOK \_\_\_\_\_  
 AREAS CHECKED \_\_\_\_\_  
 NO. \_\_\_\_\_

BY: \_\_\_\_\_ DATE: \_\_\_\_\_  
 SURVEYED \_\_\_\_\_  
 PLOTTED \_\_\_\_\_  
 TEMPLATE \_\_\_\_\_  
 NOTE BOOK \_\_\_\_\_  
 AREAS CHECKED \_\_\_\_\_  
 NO. \_\_\_\_\_



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

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

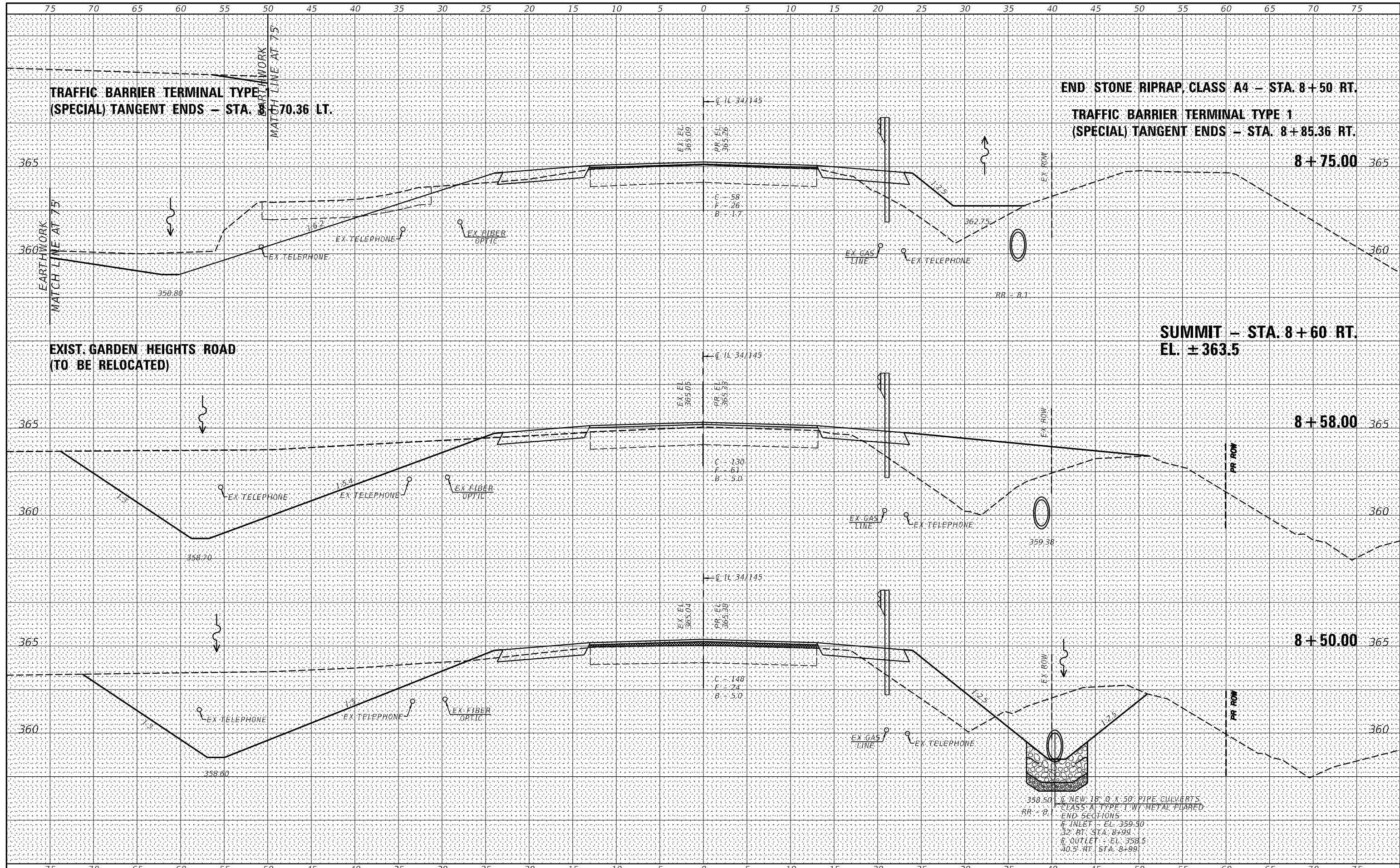
**IL 34 CROSS SECTIONS**

SCALE: \_\_\_\_\_ SHEET NO. \_\_\_ OF \_\_\_ SHEETS STA. 8+00.00 TO STA. 8+25.00

F.A.P. RTE. 132	SECTION 1B-2	COUNTY SALINE	TOTAL SHEETS 76	SHEET NO. 61
CONTRACT NO. 78680				
FED. ROAD DIST. NO. [ ] ILLINOIS FED. AID PROJECT				

DATE \_\_\_\_\_  
 BY \_\_\_\_\_  
 SURVEYED \_\_\_\_\_  
 PLOTTED \_\_\_\_\_  
 TEMPLATE \_\_\_\_\_  
 NOTE BOOK \_\_\_\_\_  
 AREAS CHECKED \_\_\_\_\_

DATE \_\_\_\_\_  
 BY \_\_\_\_\_  
 SURVEYED \_\_\_\_\_  
 PLOTTED \_\_\_\_\_  
 TEMPLATE \_\_\_\_\_  
 NOTE BOOK \_\_\_\_\_  
 AREAS CHECKED \_\_\_\_\_



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

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

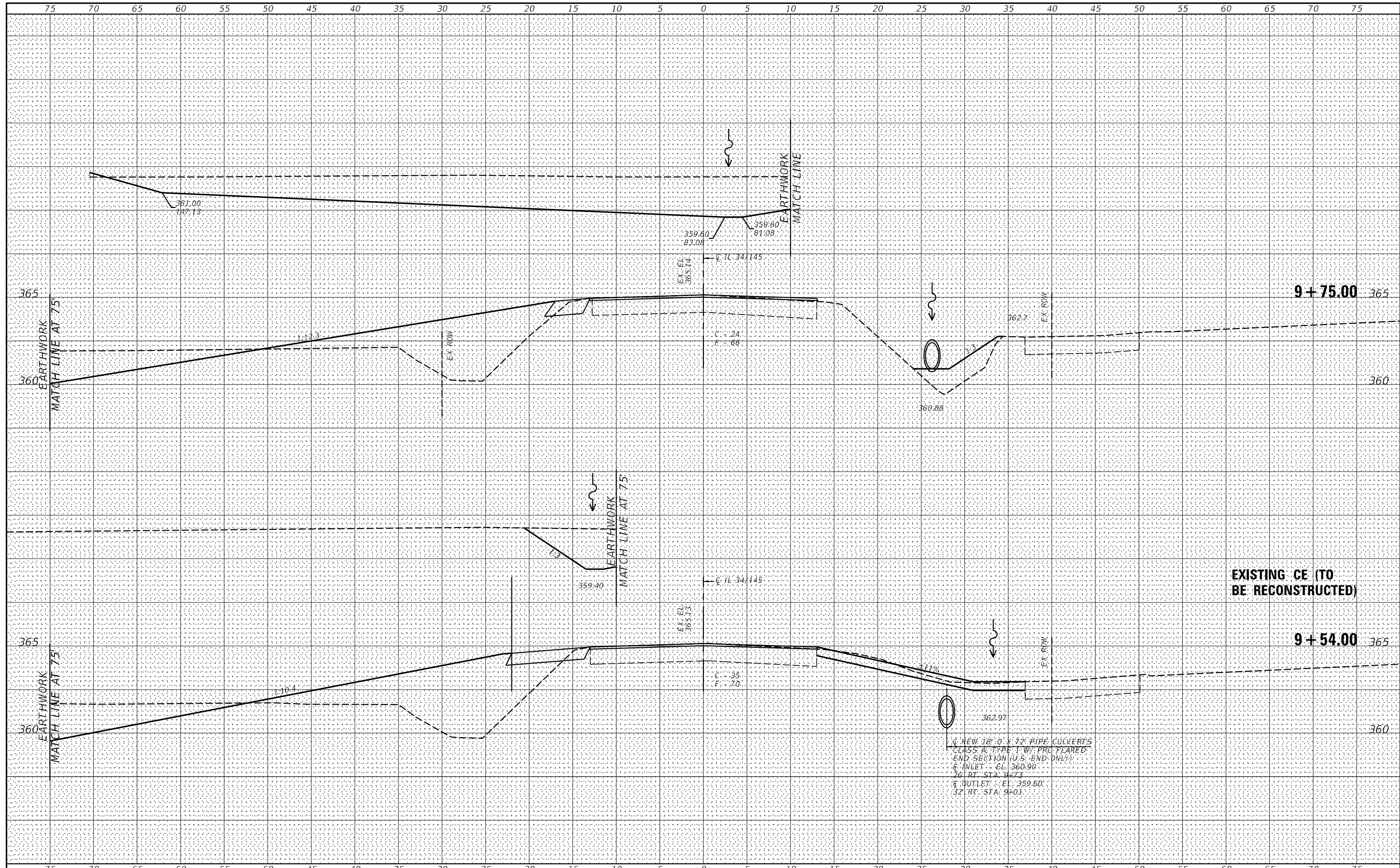
**IL 34 CROSS SECTIONS**  
 SCALE: \_\_\_\_\_ SHEET NO. \_\_\_ OF \_\_\_ SHEETS STA. 8+50.00 TO STA. 8+57.84

F.A.P. RTE. 132	SECTION 1B-2	COUNTY SALINE	TOTAL SHEETS 76	SHEET NO. 62
CONTRACT NO. 78680				
FED. ROAD DIST. NO. [ ] ILLINOIS FED. AID PROJECT				



BY: \_\_\_\_\_ DATE: \_\_\_\_\_  
 SURVEYED \_\_\_\_\_  
 PLOTTED \_\_\_\_\_  
 TEMPLATE \_\_\_\_\_  
 NOTE BOOK \_\_\_\_\_  
 AREAS CHECKED \_\_\_\_\_  
 NO. \_\_\_\_\_

BY: \_\_\_\_\_ DATE: \_\_\_\_\_  
 SURVEYED \_\_\_\_\_  
 PLOTTED \_\_\_\_\_  
 TEMPLATE \_\_\_\_\_  
 NOTE BOOK \_\_\_\_\_  
 AREAS CHECKED \_\_\_\_\_  
 NO. \_\_\_\_\_



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

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**IL 34 CROSS SECTIONS**

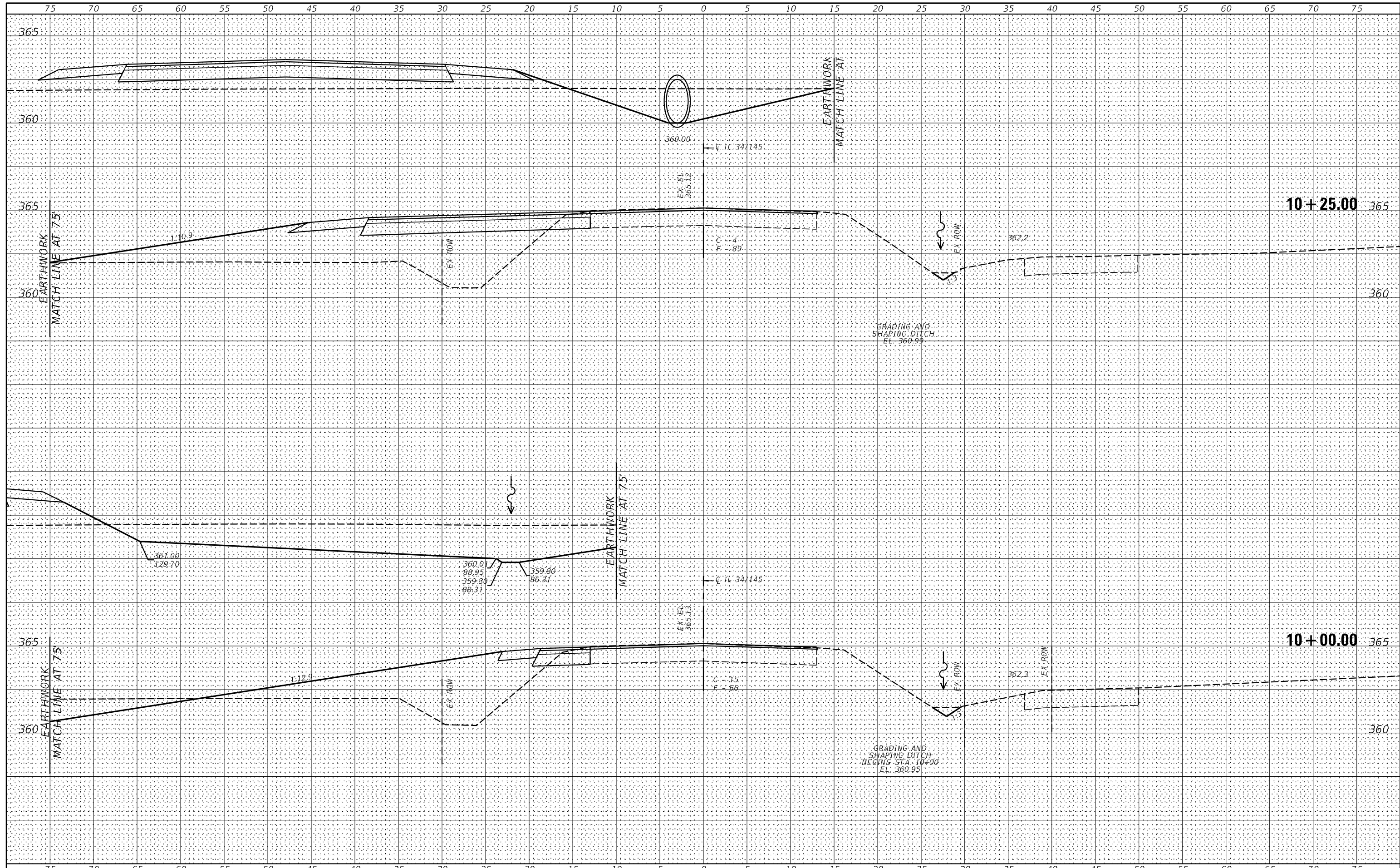
SCALE: \_\_\_\_\_ SHEET NO. \_\_\_\_ OF \_\_\_\_ SHEETS STA. 8+75.00 TO STA. 9+00.00

F.A.P. RTE. 132	SECTION 1B-2	COUNTY SALINE	TOTAL SHEETS 76	SHEET NO. 64
CONTRACT NO. 78680				
FED. ROAD DIST. NO. _____ ILLINOIS FED. AID PROJECT				



BY: \_\_\_\_\_ DATE: \_\_\_\_\_  
 SURVEYED \_\_\_\_\_  
 PLOTTED \_\_\_\_\_  
 TEMPLATE \_\_\_\_\_  
 NOTE BOOK \_\_\_\_\_  
 AREAS CHECKED \_\_\_\_\_  
 NO. \_\_\_\_\_

BY: \_\_\_\_\_ DATE: \_\_\_\_\_  
 SURVEYED \_\_\_\_\_  
 PLOTTED \_\_\_\_\_  
 TEMPLATE \_\_\_\_\_  
 NOTE BOOK \_\_\_\_\_  
 AREAS CHECKED \_\_\_\_\_  
 NO. \_\_\_\_\_



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

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

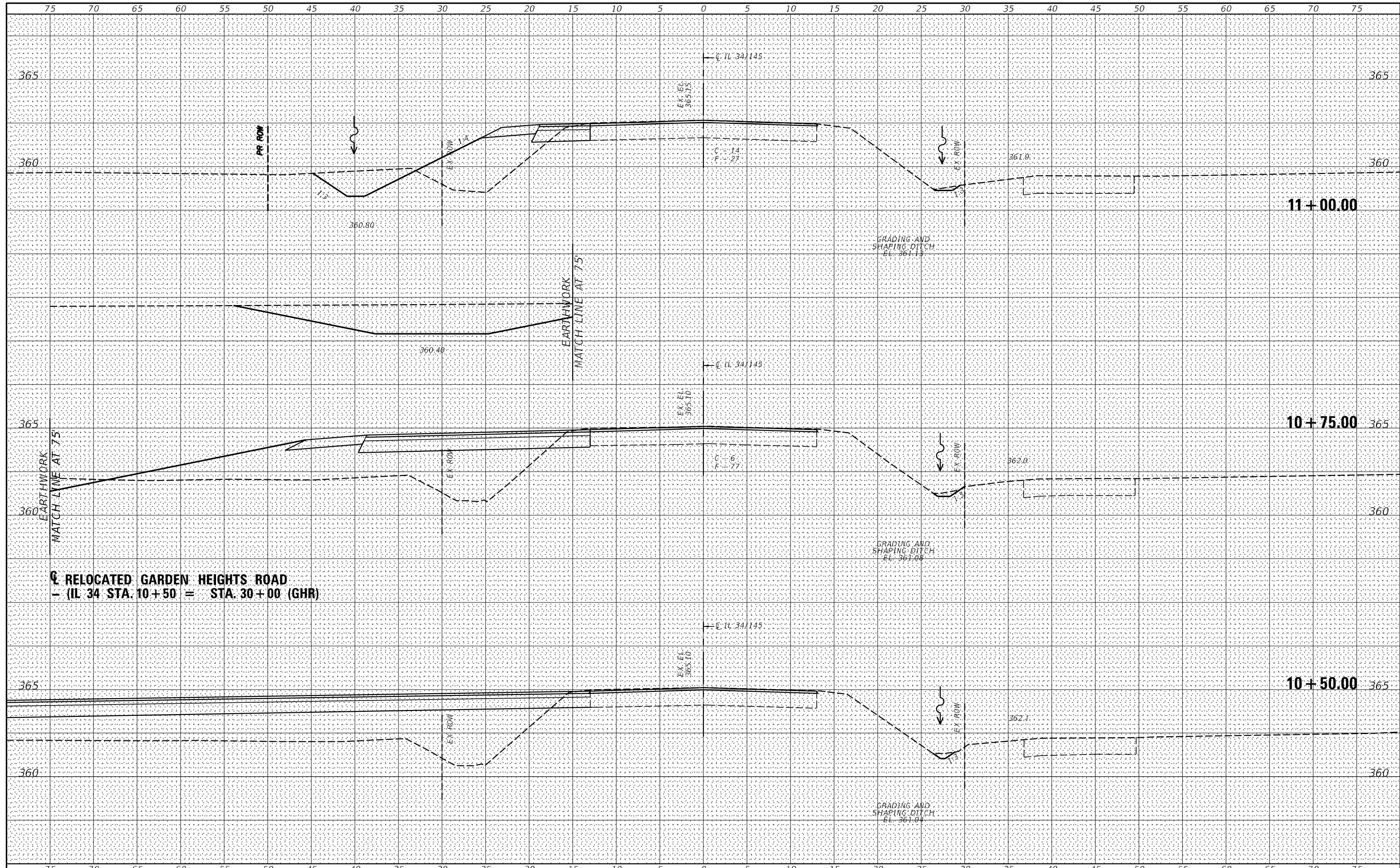
IL 34 CROSS SECTIONS

SCALE: \_\_\_\_\_ SHEET NO. \_\_\_\_ OF \_\_\_\_ SHEETS STA. 9+75.00 TO STA. 10+25.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
132	1B-2	SALINE	76	65
CONTRACT NO. 78680				
FED. ROAD DIST. NO. [ ] ILLINOIS FED. AID PROJECT				

BY: \_\_\_\_\_ DATE: \_\_\_\_\_  
 SURVEYED \_\_\_\_\_  
 PLOTTED \_\_\_\_\_  
 TEMPLATE \_\_\_\_\_  
 NOTE BOOK \_\_\_\_\_  
 AREAS CHECKED \_\_\_\_\_  
 NO. \_\_\_\_\_

BY: \_\_\_\_\_ DATE: \_\_\_\_\_  
 SURVEYED \_\_\_\_\_  
 PLOTTED \_\_\_\_\_  
 TEMPLATE \_\_\_\_\_  
 NOTE BOOK \_\_\_\_\_  
 AREAS CHECKED \_\_\_\_\_  
 NO. \_\_\_\_\_



**RELOCATED GARDEN HEIGHTS ROAD**  
 (IL 34 STA. 10+50 = STA. 30+00 (GHR))



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

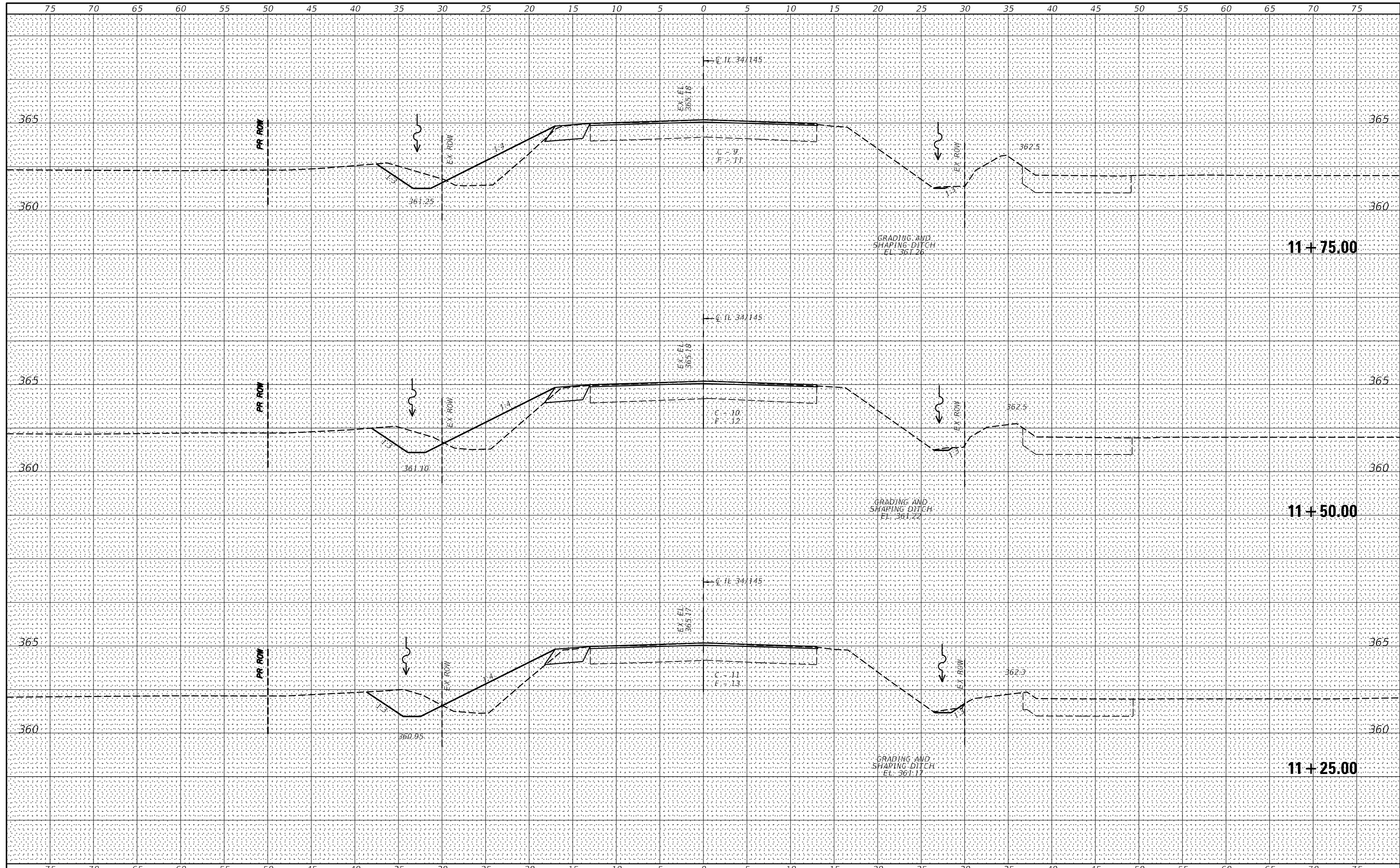
**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**IL 34 CROSS SECTIONS**  
 SCALE: \_\_\_\_\_ SHEET NO. \_\_\_ OF \_\_\_ SHEETS STA. 10+50.00 TO STA. 11+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
132	1B-2	SALINE	76	66
CONTRACT NO. 78680				
FED. ROAD DIST. NO. [ ] ILLINOIS FED. AID PROJECT				

BY: \_\_\_\_\_ DATE: \_\_\_\_\_  
 SURVEYED PLOTTED  
 SURVEY PLOTTED  
 NOTE BOOK TEMPLATE  
 NO. AREAS CHECKED

BY: \_\_\_\_\_ DATE: \_\_\_\_\_  
 SURVEYED PLOTTED  
 SURVEY PLOTTED  
 NOTE BOOK TEMPLATE  
 NO. AREAS CHECKED



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

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**IL 34 CROSS SECTIONS**

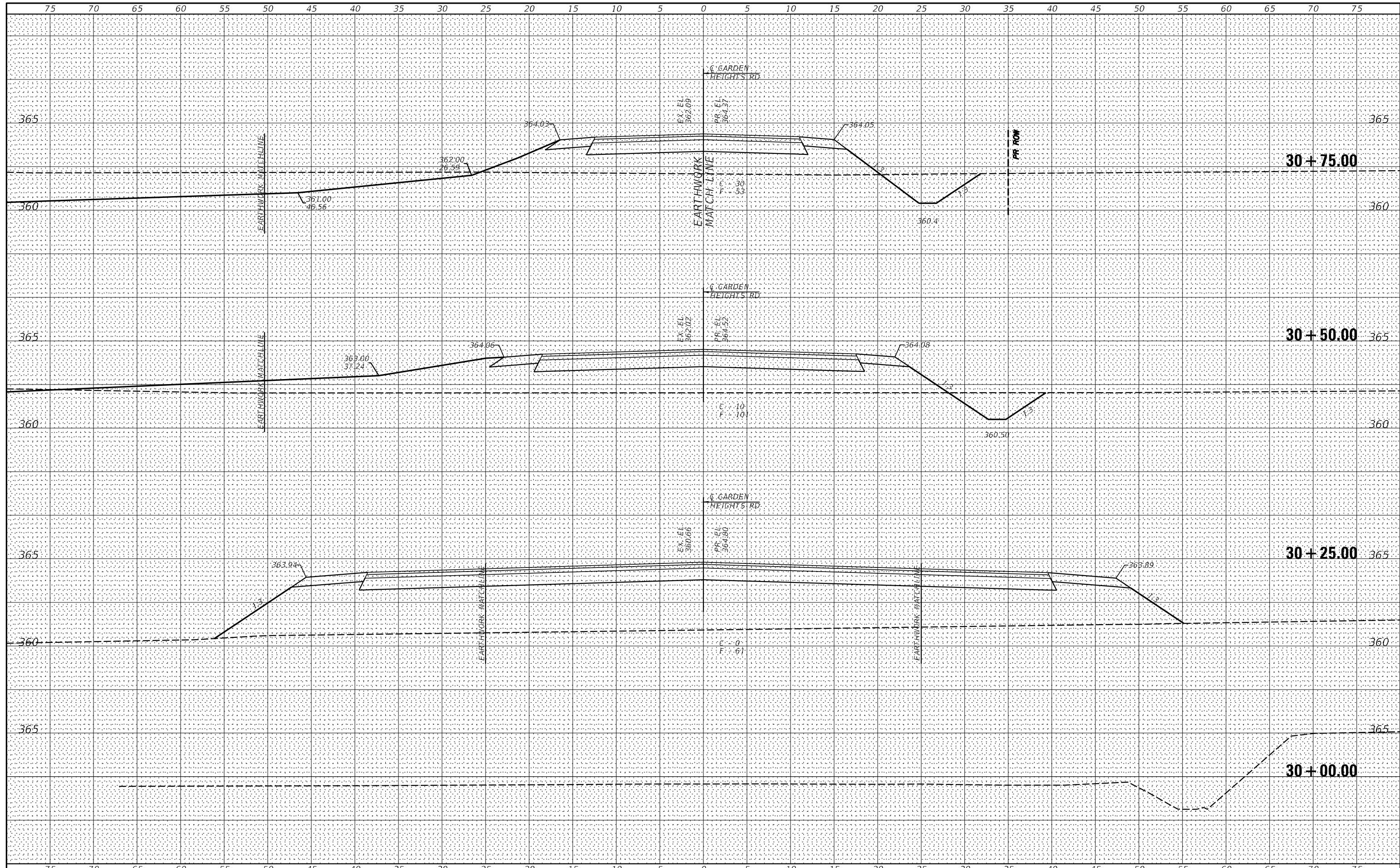
SCALE: \_\_\_\_\_ SHEET NO. \_\_\_\_ OF \_\_\_\_ SHEETS STA. 11+25.00 TO STA. 11+75.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
132	1B-2	SALINE	76	67
CONTRACT NO. 78680				
FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT				



BY: \_\_\_\_\_ DATE: \_\_\_\_\_  
 ORIGINAL SURVEY SURVEYED SURVEYED  
 NOTE BOOK PLOTTED PLOTTED  
 NO. AREAS AREAS  
 CHECKED CHECKED

BY: \_\_\_\_\_ DATE: \_\_\_\_\_  
 ORIGINAL SURVEY SURVEYED SURVEYED  
 NOTE BOOK PLOTTED PLOTTED  
 NO. AREAS AREAS  
 CHECKED CHECKED



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

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

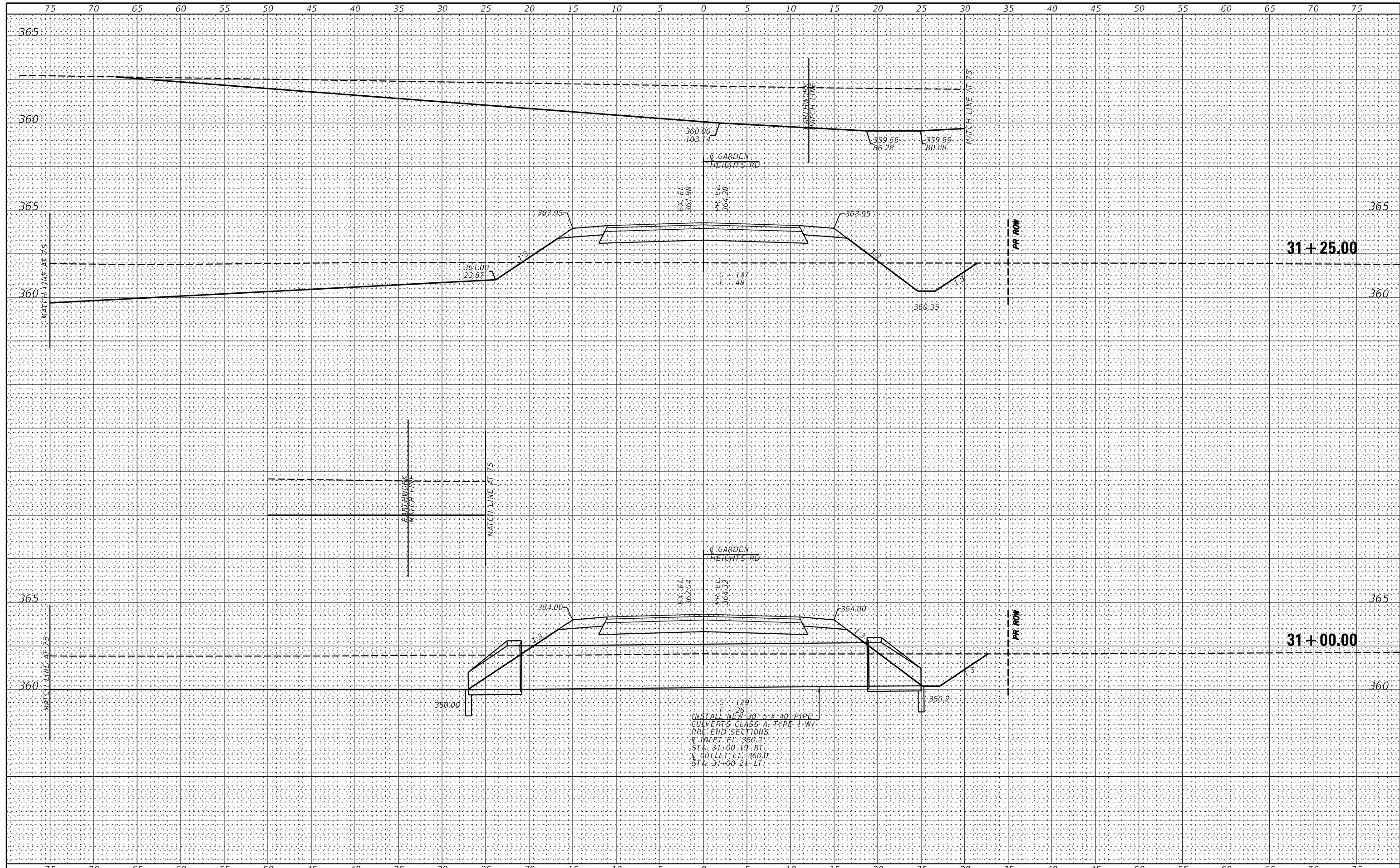
**CROSS SECTIONS  
 GARDEN HEIGHTS ROAD**

SCALE: \_\_\_\_\_ SHEET NO. \_\_\_ OF 8 SHEETS STA. 30+00.00 TO STA. 30+50.00

F.A.P. RTE. 132	SECTION 1B-2	COUNTY SALINE	TOTAL SHEETS 76	SHEET NO. 69
CONTRACT NO. 78680				
FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT				

BY: \_\_\_\_\_ DATE: \_\_\_\_\_  
 SURVEYED \_\_\_\_\_  
 PLOTTED \_\_\_\_\_  
 TEMPLATE \_\_\_\_\_  
 NOTE BOOK \_\_\_\_\_  
 AREAS CHECKED \_\_\_\_\_  
 NO. \_\_\_\_\_

BY: \_\_\_\_\_ DATE: \_\_\_\_\_  
 SURVEYED \_\_\_\_\_  
 PLOTTED \_\_\_\_\_  
 TEMPLATE \_\_\_\_\_  
 NOTE BOOK \_\_\_\_\_  
 AREAS CHECKED \_\_\_\_\_  
 NO. \_\_\_\_\_



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

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

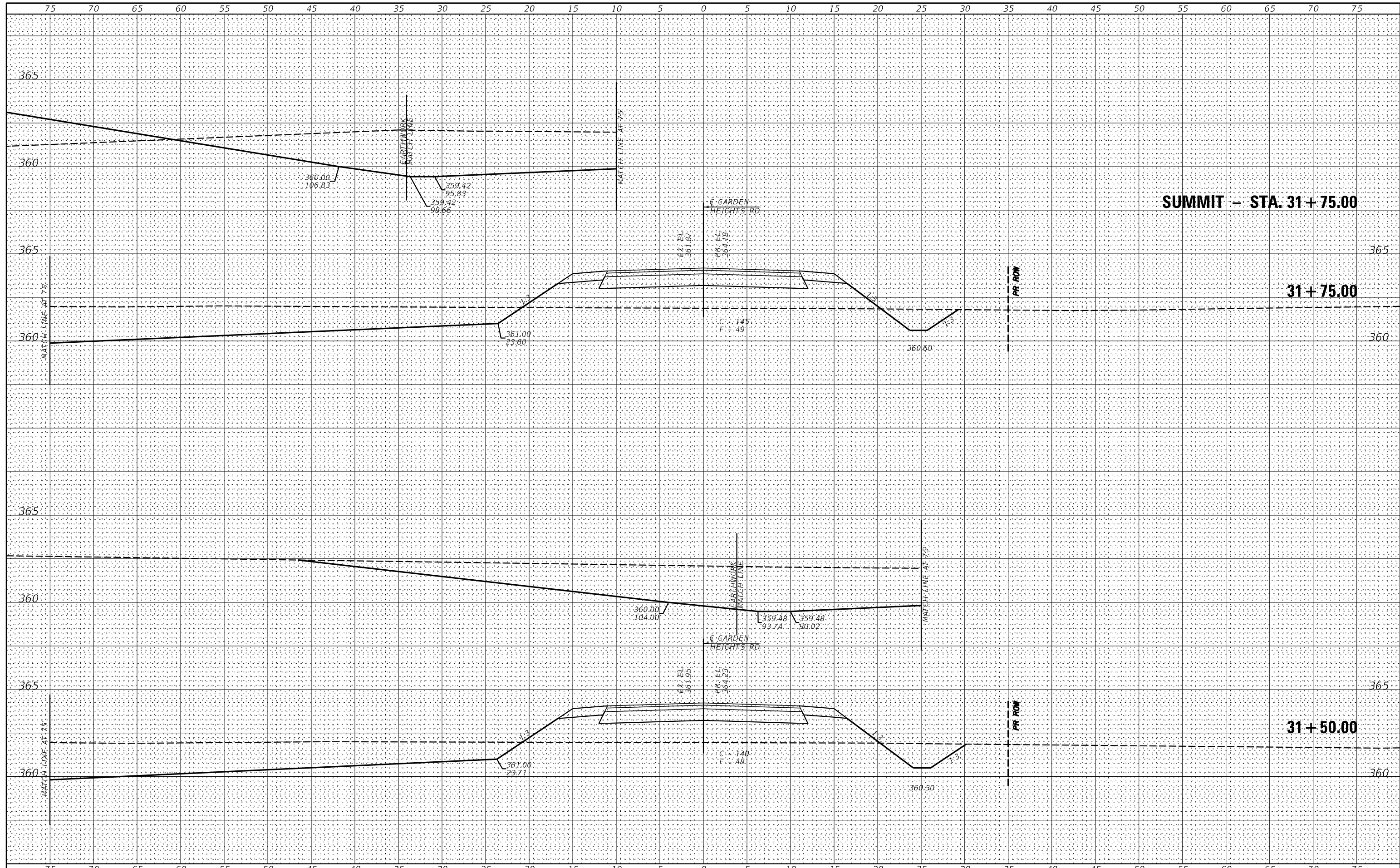
**CROSS SECTIONS  
 GARDEN HEIGHTS ROAD**

SCALE: \_\_\_\_\_ SHEET NO. \_\_\_\_ OF 8 SHEETS STA. 30+75.00 TO STA. 31+25.00

F.A.P. RTE. 132	SECTION 1B-2	COUNTY SALINE	TOTAL SHEETS 76	SHEET NO. 70
CONTRACT NO. 78680				
FED. ROAD DIST. NO. _____ ILLINOIS FED. AID PROJECT				

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

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



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

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

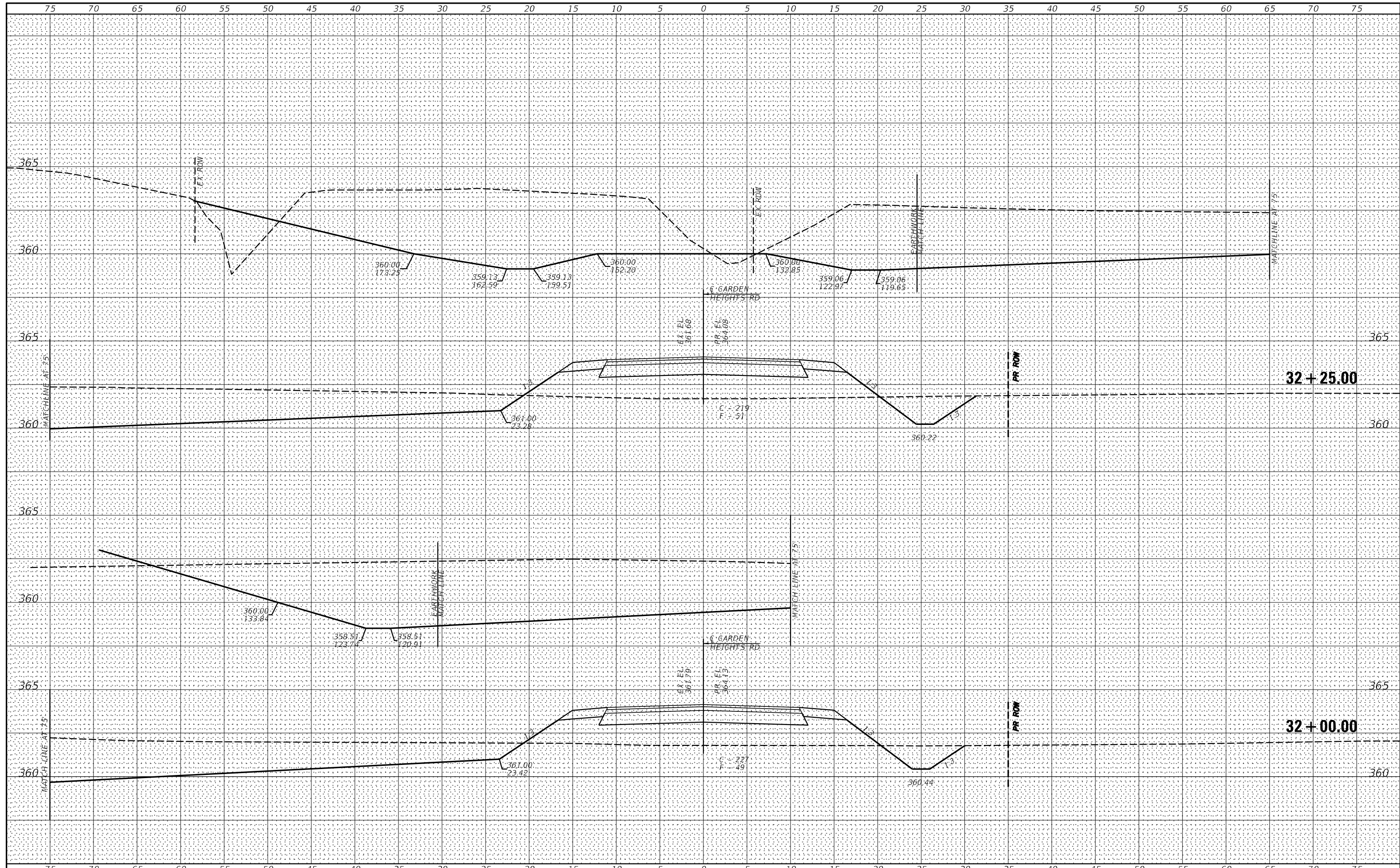
**CROSS SECTIONS  
GARDEN HEIGHTS ROAD**

SCALE: \_\_\_\_\_ SHEET NO. \_\_\_ OF 8 SHEETS STA. 31+44.27 TO STA. 31+75.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
132	1B-2	SALINE	76	71
CONTRACT NO. 78680				
FED. ROAD DIST. NO. [ ] ILLINOIS FED. AID PROJECT				

BY: \_\_\_\_\_ DATE: \_\_\_\_\_  
 SURVEYED \_\_\_\_\_  
 PLOTTED \_\_\_\_\_  
 TEMPLATE \_\_\_\_\_  
 NOTE BOOK \_\_\_\_\_  
 AREAS CHECKED \_\_\_\_\_  
 NO. \_\_\_\_\_

BY: \_\_\_\_\_ DATE: \_\_\_\_\_  
 SURVEYED \_\_\_\_\_  
 PLOTTED \_\_\_\_\_  
 TEMPLATE \_\_\_\_\_  
 NOTE BOOK \_\_\_\_\_  
 AREAS CHECKED \_\_\_\_\_  
 NO. \_\_\_\_\_



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

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS  
 GARDEN HEIGHTS ROAD**

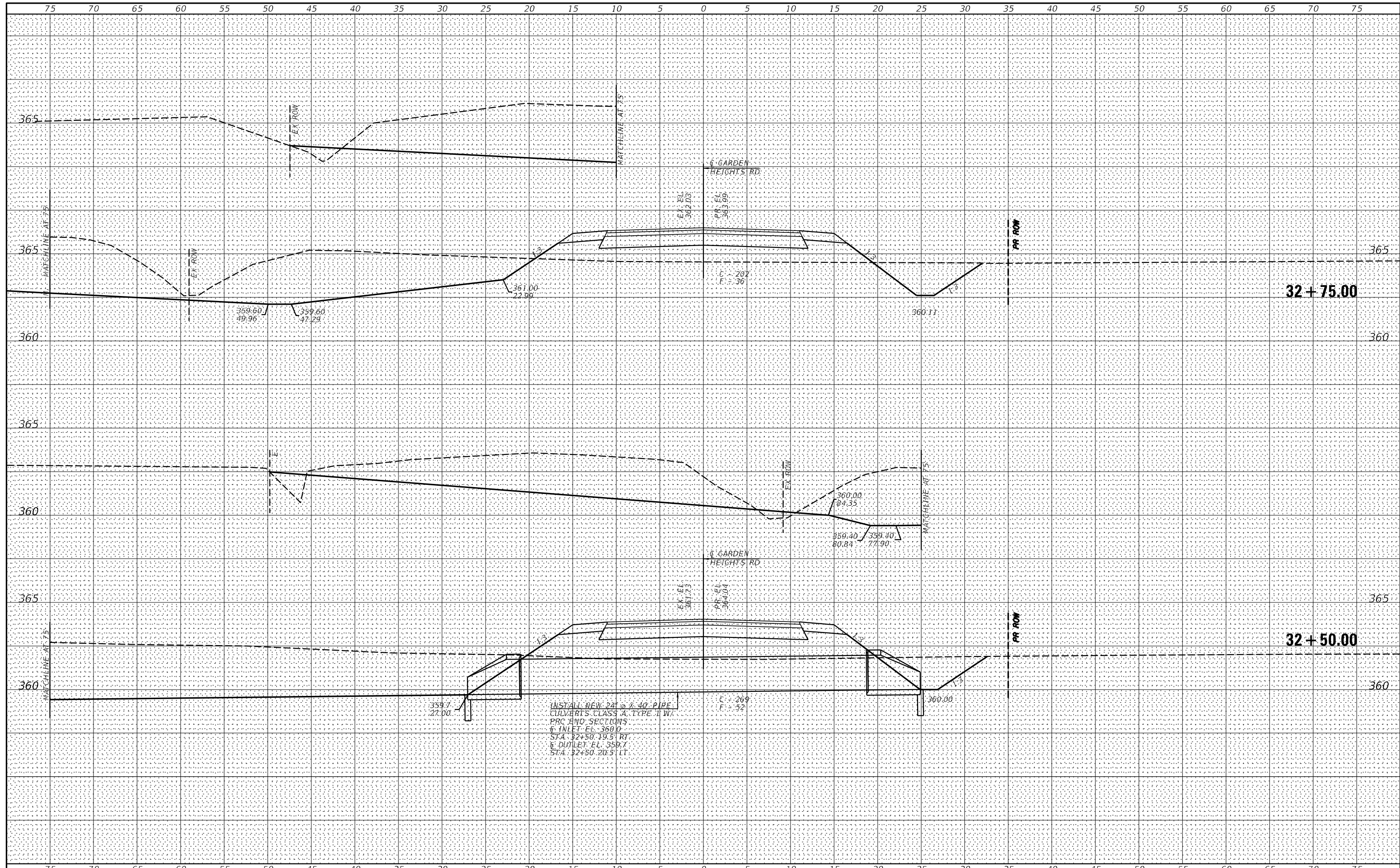
SCALE: \_\_\_\_\_ SHEET NO. \_\_\_\_ OF 8 SHEETS STA. 32+00.00 TO STA. 32+50.00

F.A.P. RTE. 132	SECTION 1B-2	COUNTY SALINE	TOTAL SHEETS 76	SHEET NO. 72
CONTRACT NO. 78680				
FED. ROAD DIST. NO. _____ ILLINOIS FED. AID PROJECT				



BY: \_\_\_\_\_ DATE: \_\_\_\_\_  
 SURVEYED \_\_\_\_\_  
 PLOTTED \_\_\_\_\_  
 TEMPLATE \_\_\_\_\_  
 NOTE BOOK \_\_\_\_\_  
 AREAS CHECKED \_\_\_\_\_  
 NO. \_\_\_\_\_

BY: \_\_\_\_\_ DATE: \_\_\_\_\_  
 SURVEYED \_\_\_\_\_  
 PLOTTED \_\_\_\_\_  
 TEMPLATE \_\_\_\_\_  
 NOTE BOOK \_\_\_\_\_  
 AREAS CHECKED \_\_\_\_\_  
 NO. \_\_\_\_\_



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

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

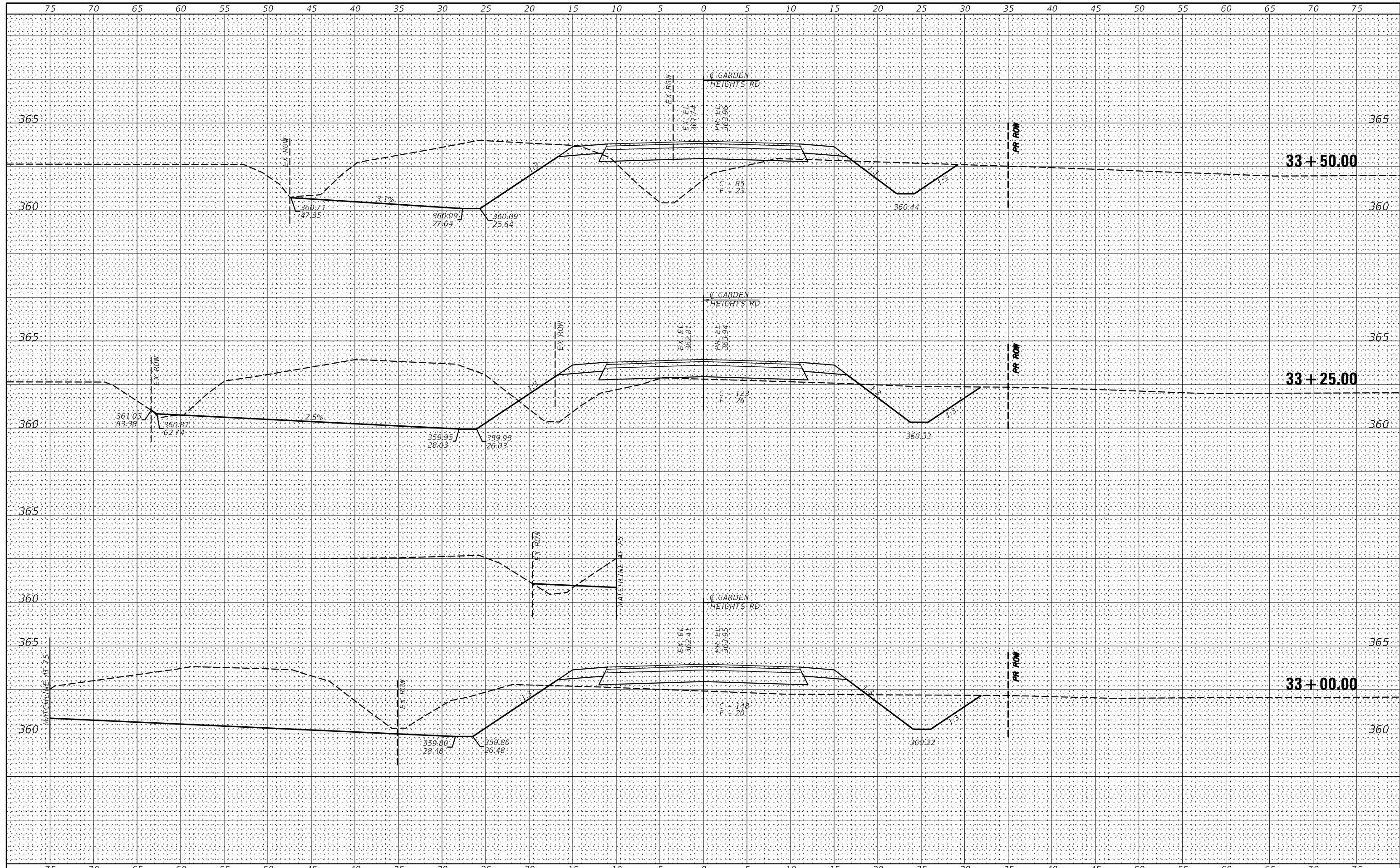
**CROSS SECTIONS  
 GARDEN HEIGHTS ROAD**

SCALE: \_\_\_\_\_ SHEET NO. \_\_\_ OF 8 SHEETS STA. 32+75.00 TO STA. 33+25.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
132	1B-2	SALINE	76	73
CONTRACT NO. 78680				
FED. ROAD DIST. NO. [ ] ILLINOIS FED. AID PROJECT				

BY: \_\_\_\_\_ DATE: \_\_\_\_\_  
 SURVEYED \_\_\_\_\_  
 PLOTTED \_\_\_\_\_  
 TEMPLATE \_\_\_\_\_  
 NOTE BOOK \_\_\_\_\_  
 AREAS CHECKED \_\_\_\_\_  
 NO. \_\_\_\_\_

BY: \_\_\_\_\_ DATE: \_\_\_\_\_  
 SURVEYED \_\_\_\_\_  
 PLOTTED \_\_\_\_\_  
 TEMPLATE \_\_\_\_\_  
 NOTE BOOK \_\_\_\_\_  
 AREAS CHECKED \_\_\_\_\_  
 NO. \_\_\_\_\_



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

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS  
 GARDEN HEIGHTS ROAD**

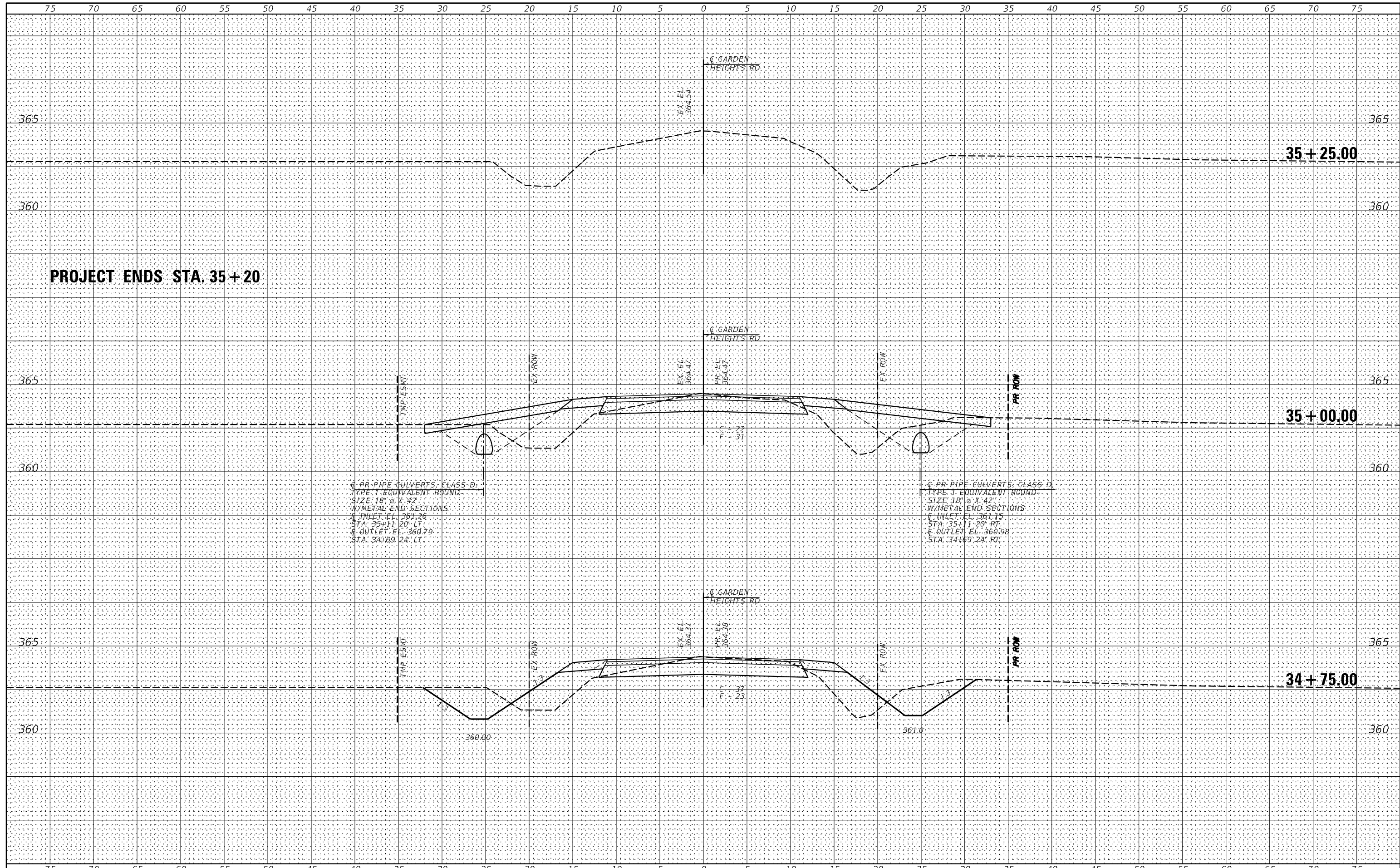
SCALE: \_\_\_\_\_ SHEET NO. \_\_\_ OF 8 SHEETS STA. 33+50.00 TO STA. 34+00.00

F.A.P. RTE. 132	SECTION 1B-2	COUNTY SALINE	TOTAL SHEETS 76	SHEET NO. 74
CONTRACT NO. 78680				
FED. ROAD DIST. NO. [ ] ILLINOIS FED. AID PROJECT				



BY: \_\_\_\_\_ DATE: \_\_\_\_\_  
 SURVEYED \_\_\_\_\_  
 PLOTTED \_\_\_\_\_  
 TEMPLATE \_\_\_\_\_  
 NOTE BOOK \_\_\_\_\_  
 AREAS CHECKED \_\_\_\_\_  
 NO. \_\_\_\_\_

BY: \_\_\_\_\_ DATE: \_\_\_\_\_  
 SURVEYED \_\_\_\_\_  
 PLOTTED \_\_\_\_\_  
 TEMPLATE \_\_\_\_\_  
 NOTE BOOK \_\_\_\_\_  
 AREAS CHECKED \_\_\_\_\_  
 NO. \_\_\_\_\_



PR PIPE CULVERTS, CLASS D,  
 TYPE 1 EQUIVALENT ROUND,  
 SIZE 18" Ø X 42"  
 W/METAL END SECTIONS  
 I INLET EL. 361.26  
 STA. 35+17.20' LT.  
 II OUTLET EL. 360.79  
 STA. 34+69.24' LT.

PR PIPE CULVERTS, CLASS D,  
 TYPE 1 EQUIVALENT ROUND,  
 SIZE 18" Ø X 42"  
 W/METAL END SECTIONS  
 I INLET EL. 361.15  
 STA. 35+11.20' RT.  
 II OUTLET EL. 360.98  
 STA. 34+69.24' RT.



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

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS  
 GARDEN HEIGHTS ROAD

SCALE: \_\_\_\_\_ SHEET NO. \_\_\_\_ OF 8 SHEETS STA. 35+00.00 TO STA. 35+50.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
132	1B-2	SALINE	76	76
CONTRACT NO. 78680				
FED. ROAD DIST. NO. [ ] ILLINOIS FED. AID PROJECT				