

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	29B-3; 29B-4	SALINE	150	1
		ILLINOIS	CONTRACT NO. 78716	

D-99-025-19



PROPOSED HIGHWAY PLANS

FAP ROUTE 332 (U.S. 45)
SECTION 29B-3; 29B-4
PROJECT NHPP-PL6K(530)
STRUCTURE REPLACEMENT
SALINE COUNTY

C-99-046-19

FOR INDEX OF SHEETS, SEE SHEET NO. 3
FOR SUMMARY OF QUANTITIES, SEE SHEET NO. 4 TO 11

TRAFFIC DATA

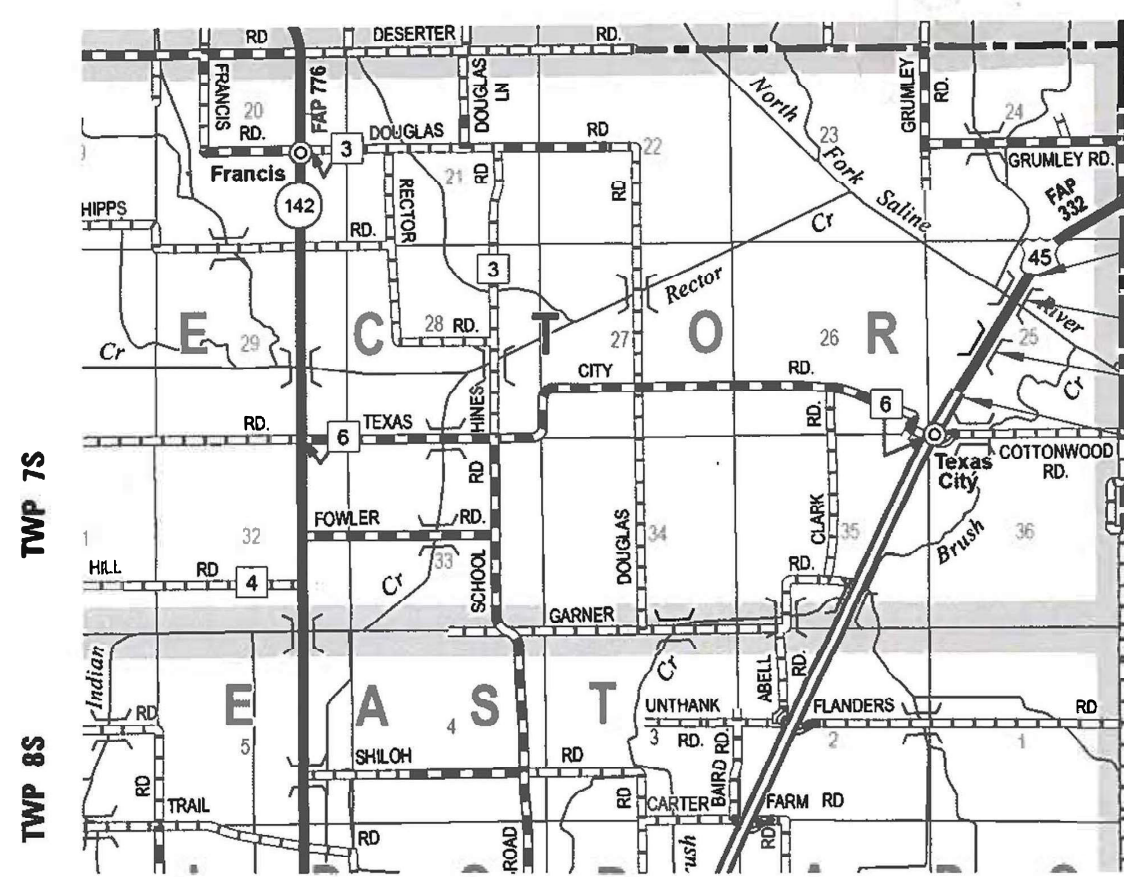
ROADWAY CLASSIFICATION: PRINCIPAL ARTERIAL
DESIGN SPEED = 55 MPH
CURRENT ADT (2019) = 4,150
DESIGN YEAR ADT (2041) = 5,170
SU = 3.9%
MU = 10.8%

TOWNSHIP

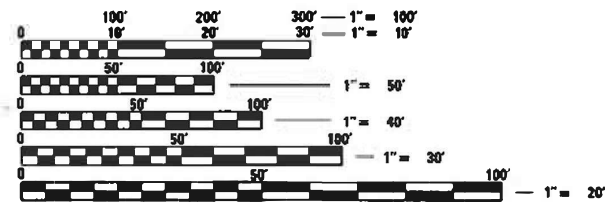
RECTOR

COORDINATE SYSTEM : STATE PLANE ZONE - ILLINOIS EAST

POSTED SPEED : 55 MPH



- END IMPROVEMENTS STA. 725+67.50 R2 (U.S. ROUTE 45)
- EXISTING SN 083-0001 PROPOSED SN 083-0073
☉ STRUCTURE STA 721+23.00 US 45 OVER NORTH FORK SALINE RIVER
- EXISTING SN 083-0002 PROPOSED SN 083-0074
☉ STRUCTURE STA 704+60.84 US 45 OVER OVERFLOW OF NORTH FORK SALINE RIVER
- BEGIN IMPROVEMENTS STA. 693+11.39 R2 (U.S. ROUTE 45)



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

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

PROJECT ENGINEER: GRANT DETERDING
PROJECT DESIGNER: CMT

CONTRACT NO. 78716



GROSS LENGTH = 3,256.10 FT. = 0.617 MILE
NET LENGTH = 3,256.10 FT. = 0.617 MILE



SIGNATURE: *Matthew Overbey*
DATE SIGNED: 03/18/2022
LICENSE EXPIRATION DATE: 11/30/2023

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUBMITTED March 23 20 22
Stephen M. Francis
REGION FIVE ENGINEER

December 9, 2022
S. E. A. etc
ENGINEER OF DESIGN AND ENVIRONMENT

December 9, 2022
Stephen M. Francis
DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

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MODEL: Signature Sheet
 FILE NAME: \\P001\9066\DWG\10\Drawings\of\ADD_Sheets\092821\6-vit_Signature.dgn

Prepared By: Charles Stein
 DISTRICT STUDIES & PLANS ENGINEER

Examined By: Nancy Lee
 DISTRICT LAND ACQUISITION ENGINEER

Examined By: Cassie Nelson
 DISTRICT PROGRAM DEVELOPMENT ENGINEER

Examined By: R. C. [Signature]
 DISTRICT OPERATIONS ENGINEER

Examined By: Douglas J. [Signature]
 DISTRICT PROJECT IMPLEMENTATION ENGINEER

Examined By: Douglas J. [Signature]
 DISTRICT CONSTRUCTION ENGINEER

Examined By: R. C. [Signature]
 DISTRICT MATERIALS ENGINEER

REV. - MS

USER NAME = moverbey	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 0.16666633' / in.	CHECKED -	REVISED -
PLOT DATE = 3/18/2022	DATE -	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**F.A.P. 332 (U.S. ROUTE 45)
 SIGNATURE SHEET**

SCALE: SHEET OF SHEETS STA TO STA

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	298-3: 298-4	SALINE	160	2
CONTRACT NO. 78716			ILLINOIS FED. AID PROJECT	

INDEX OF SHEETS

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HIGHWAY STANDARDS

000001-08	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
001001-02	AREAS OF REINFORCEMENT BARS
001006	DECIMAL OF AN INCH AND OF A FOOT
280001-07	TEMPORARY EROSION CONTROL SYSTEMS
420401-13	PAVEMENT CONNECTOR (PCC) FOR BRIDGE APPROACH SLAB
515001-04	NAME PLATE FOR BRIDGES
542401-04	METAL FLARED END SECTION FOR PIPE CULVERTS
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 TERMINALS
631031-18	TRAFFIC BARRIER TERMINAL, TYPE 6
642006-01	SHOULDER RUMBLE STRIPS, 8 IN.
701001-02	OFF-RD OPERATIONS, 2L, 2W, MORE THAN 15' AWAY
701006-05	OFF-RD OPERATIONS, 2L, 2W, 15' TO 24" FROM PAVEMENT EDGE
701011-04	OFF-RD 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
701306-04	LANE CLOSURE 2L, 2W, SLOW MOVING OPERATIONS DAY ONLY, FOR SPEEDS ≥ 45 MPH
701311-03	LANE CLOSURE 2L, 2W, MOVING OPERATIONS
701321-18	LANE CLOSURE 2L, 2W, BRIDGE REPAIR WITH BARRIER
701326-04	LANE CLOSURE 2L, 2W, PAVEMENT WIDENING, FOR SPEEDS ≥ 45 MPH
701901-08	TRAFFIC CONTROL DEVICES
704001-08	TEMPORARY CONCRETE BARRIER
725001-01	OBJECT AND TERMINAL MARKERS
780001-05	TYPICAL PAVEMENT MARKINGS
781001-04	TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS
782006-01	GUARDRAIL AND BARRIER WALL REFLECTOR MOUNTING DETAILS
420001-10	PAVEMENT JOINTS
420701-03	PAVEMENT WELDED WIRE REINFORCEMENT

GENERAL NOTES

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

ALL AGGREGATE	2.05 TONS/CU. YD.
RIPRAP	1.50 TONS/CU. YD.
ALL HOT-MIX ASPHALT	2.016 TONS/CU. YD.
- 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.
- AT ALL LOCATIONS WHERE THE PROPOSED HOT MIX ASPHALT OR CONCRETE PAVEMENT JOINS AN EXISTING HOT MIX ASPHALT OR CONCRETE PAVEMENT, A FULL DEPTH SAWED JOINT SHALL BE CONSTRUCTED. THE COST OF THIS JOINT WILL BE INCLUDED IN THE COST OF THE TYPE OF PAVEMENT BEING CONSTRUCTED.
- THE CONTRACTOR SHALL STAMP STATIONING IN THE PROPOSED HOT MIX ASPHALT SURFACE AT 300 FT INTERVALS ON ALTERNATING SIDES OF THE PAVEMENT AND AS DIRECTED BY THE ENGINEER. THE STATION SYMBOL STAMPS USED SHALL BE FURNISHED BY THE CONTRACTOR. THEY SHALL BE 5 1/2 IN. TALL, OF A DESIGN APPROVED BY THE ENGINEER, AND SHALL REMAIN THE PROPERTY OF THE CONTRACTOR.
- HMA RESURFACING SHALL BE PLACED IN A SEQUENCE THAT WILL MINIMIZE THE TIME THE CENTERLINE EDGE IS EXPOSED TO TRAFFIC. WHEN AT THE END OF A DAY'S OPERATION THE EXPOSED CENTERLINE EDGE IS GREATER THAN 2,000 FT, THE CONTRACTOR SHALL BE REQUIRED TO PAVE IN THE ADJACENT LANE ON THE FOLLOWING WORK DAY. PRIOR TO WINTER SHUTDOWN, RESURFACING ON ADJACENT LANES IS TO BE BROUGHT UP TO THE SAME ELEVATION.
- LONGITUDINAL JOINT SEALANT SHALL BE PLACED ALONG THE CENTERLINE JOINT, UNDER THE HMA SURFACE COURSE.
- 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 WITH THE ANCHORING DEVICES, THE CONTRACTOR SHALL PROVIDE ONE STEEL RETAINING PLATE AND 1/2" DIAMETER BOLT AND WASHERS EVERY 6 FEET AS SHOWN ON DETAIL II ON SHEET 57 FROM STA. 703+03.84 R2 TO STA. 706+17.84 R2 AND ON SHEET 82 FROM STA. 719+78.50 R2 TO STA. 722+67.50 R2 FOR STAGE II TRAFFIC, THIS WORK SHALL BE INCLUDED IN THE COST OF TEMPORARY CONCRETE BARRIER.

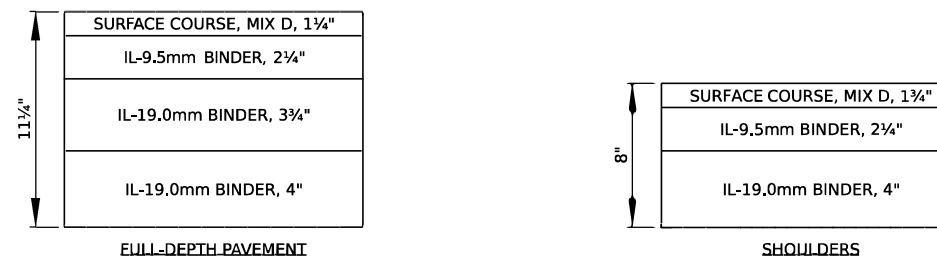
COMMITMENTS

- TO MINIMIZE IMPACTS TO THE COPPERBELLY WATER SNAKES, CONSTRUCTION WORKERS WILL BE INFORMED THAT IF ANY SNAKE IS ENCOUNTERED THAT IT IS NOT TO BE HARMED.
- IMPACTS TO INDIANA BATS, NORTHERN LONG-EARED BATS, AND TRI-COLORED BATRS WILL BE MITIGATED BY IMPLEMENTING A TREE CLEARING RESTRICTION THAT WILL ALLOW TREE CLEARING ONLY DURING THE PERIOD OF TIME BETWEEN SEPTEMBER 30 AND APRIL 1. DURING THIS TIME PERIOD INDIANA BATS ARE UTILIZING CAVES FOR ROOSTING AND NOT TREES.
- IT IS ANTICIPATED THAT THERE WILL BE UNAVOIDABLE IMPACTS TO THE ARKANSAS SEDGE IN AN AREA EAST OF THE NORTH FORK SALINE RIVER UNDER AN EXISTING AERIAL UTILITY LINE. TO MITIGATE THESE IMPACTS THE DISTRICT AGREES TO RE-SEED (WITH THE HELP OF INHS) IDENTIFIED POPULATIONS OF THE SPECIES TO THE AREA UNDER THE NEWLY RELOCATED AERIAL UTILITY LINE. REMAINING POPULATIONS OF ARKANSAS SEDGE AT OR NEAR THE EDGE OF THE CONSTRUCTION LIMITS WILL BE FLAGGED OR FENCED-OFF TO ELIMINATE OR REDUCE FURTHER IMPACT. CALL CALVIN ANDRIES (IDOT ENVIRONMENTAL SPECIALISTS) AT 618-351-5263 30 DAYS PRIOR TO ANY CONSTRUCTION ACTIVITIES OUTSIDE THE EDGE OF SHOULDER SO THAT ARKANSAS SEDGE GRASS CAN BE MOVED OR PROTECTED.
- PRIOR TO CONSTRUCTION, A WATER HICKORY TREE LOCATED IN WETLAND SITE ONE SHALL BE MARKED OR FLAGGED IN THE FIELD BY THE DISTRICT (WITH THE HELP OF INHS) SO IT CAN BE AVOIDED BY THE CONTRACTOR DURING ANY TREE REMOVAL OR EARTHWORK ACTIVITIES. THIS TREE SHALL BE MARKED OR FLAGGED AS EXISTING PLANT MATERIAL TO BE PROTECTED BY THE CONTRACTOR AS OUTLINED IN ARTICLE 201.05 OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.

MIXTURE TABLE

LOCATIONS	HOT-MIX ASPHALT SURFACE COURSE	HOT-MIX ASPHALT BINDER COURSE, TOP LIFT OF BINDER	HOT-MIX ASPHALT LOWER LIFTS PAVEMENT AND SHOULDRS	HOT-MIX ASPHALT SURFACE COURSE (8" SHOULDERS)
MIXTURE USE(S):	HOT-MIX ASPHALT SURFACE COURSE, MIX D, N70	HOT-MIX ASPHALT BINDER COURSE, N70	HOT-MIX ASPHALT BINDER COURSE, N70, IL-19.0	HOT-MIX ASPHALT SURFACE COURSE, MIX C, N70
AB/PG:	PG64-22	PG64-22	PG64-22	PG64-22
DESIGN AIR VOIDS:	4.0% 70 GYRATION DESIGN	4.0% 70 GYRATION DESIGN	4.0% 70 GYRATION DESIGN	4.0% 70 GYRATION DESIGN
MIXTURE COMPOSITION (GRADATION MIXTURE):	IL-9.5mm	IL-9.5mm	IL-19.0mm	IL-9.5mm
FRICTION AGGREGATE:	MIX D	NONE	NONE	NONE
MIXTURE WEIGHT:	112 LBS/SQ YD/IN	112 LBS/SQ YD/IN	112 LBS/SQ YD/IN	112 LBS/SQ YD/IN
QUALITY MANAGEMENT PROGRAM:	QCQA	QCQA	QCQA	QCQA
SUBLOT SIZE:	3000	3000	3000	3000
MATERIAL TRANSFER DEVICE	NO	NO	NO	NO

REQUIRED LIFT THICKNESS:



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	DRAWN -	REVISED -
PLOT SCALE = 0.16666633' / in.	CHECKED -	REVISED -
PLOT DATE = 12/9/2022	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**F.A.P. 332 (U.S. ROUTE 45)
GENERAL NOTES**

SCALE: NTS SHEET 1 OF 2 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	29B-3; 29B-4	SALINE	150	3
CONTRACT NO. 78716				
ILLINOIS FED. AID PROJECT				

REV. - MS

CONSTRUCTION CODE
F.A.P. 332 - SALINE COUNTY
FUNDING: 80% FEDERAL, 20% STATE

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	ROADWAY	BRIDGE	BRIDGE
				0004	0010	0010
				RURAL	S.N. 083-0073	S.N. 083-0074
20100110	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	UNIT	45	45		
20100500	TREE REMOVAL, ACRES	ACRE	0.75	0.75		
20200100	EARTH EXCAVATION	CU YD	3,220	3,220		
20300100	CHANNEL EXCAVATION	CU YD	3,450	3,450		
20400100	BORROW EXCAVATION	CU YD	14,540	14,540		
25000200	SEEDING, CLASS 2	ACRE	5.50	5.50		
25000350	SEEDING, CLASS 7	ACRE	5.50	5.50		
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	500	500		
25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	500	500		
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	500	500		
25000700	AGRICULTURAL GROUND LIMESTONE	TON	11.1	11.1		
25000750	MOWING	ACRE	5.50	5.50		
25100115	MULCH, METHOD 2	ACRE	5.25	5.25		
25100630	EROSION CONTROL BLANKET	SQ YD	2,448	2,448		
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	473	473		

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PLOT DATE = 3/18/2022	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**F.A.P. 332 (U.S. ROUTE 45)
SUMMARY OF QUANTITIES**

SCALE: 1" = 50' SHEET 1 OF 8 SHEETS STA. TO STA.

F.A.P. RTE. 332	SECTION 29B-3; 29B-4	COUNTY SALINE	TOTAL SHEETS 150	SHEET NO. 4
CONTRACT NO. 78716			ILLINOIS FED. AID PROJECT	

CONSTRUCTION CODE
F.A.P. 332 - SALINE COUNTY
FUNDING: 80% FEDERAL, 20% STATE

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE		
				ROADWAY	BRIDGE	BRIDGE
				0004	0010	0010
				RURAL	S.N. 083-0073	S.N. 083-0074
28000400	PERIMETER EROSION BARRIER	FOOT	5,976	5,976		
28000500	INLET AND PIPE PROTECTION	EACH	1	1		
28100107	STONE RIPRAP, CLASS A4	SQ YD	5,455		3,447	2,008
28200200	FILTER FABRIC	SQ YD	5,455		3,447	2,008
31100300	SUBBASE GRANULAR MATERIAL, TYPE A 4"	SQ YD	3,011	3,011		
31100910	SUBBASE GRANULAR MATERIAL, TYPE A 12"	SQ YD	2,438	2,438		
35600708	HOT-MIX ASPHALT BASE COURSE WIDENING, 8"	SQ YD	250	250		
40200800	AGGREGATE SURFACE COURSE, TYPE B	TON	316.0	316.0		
40600275	BITUMINOUS MATERIALS (PRIME COAT)	POUND	11,360	11,360		
40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	5,115	5,115		
40600370	LONGITUDINAL JOINT SEALANT	FOOT	2,598	2,598		
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	191	191		
40600990	TEMPORARY RAMP	SQ YD	440	440		
40602985	HOT-MIX ASPHALT BINDER COURSE, IL-9.5, N70	TON	845.5	845.5		

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PLOT SCALE = 0.16666633' / in.	DRAWN -	REVISED -
PLOT DATE = 3/18/2022	CHECKED -	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**F.A.P. 332 (U.S. ROUTE 45)
SUMMARY OF QUANTITIES**

SCALE: 1" = 50' SHEET 2 OF 8 SHEETS STA. TO STA.

F.A.P. RTE. 332	SECTION 29B-3; 29B-4	COUNTY SALINE	TOTAL SHEETS 150	SHEET NO. 5
CONTRACT NO. 78716			ILLINOIS FED. AID PROJECT	

CONSTRUCTION CODE		
F.A.P. 332 - SALINE COUNTY		
FUNDING: 80% FEDERAL, 20% STATE		

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	ROADWAY	BRIDGE	BRIDGE
				0004	0010	0010
				RURAL	S.N. 083-0073	S.N. 083-0074
40604062	HOT-MIX ASPHALT SURFACE COURSE, IL-9,5, MIX "D", N70	TON	550.2	550.2		
40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	1,188	1,188		
40701906	HOT-MIX ASPHALT PAVEMENT (FULL-DEPTH), 11 1/4"	SQ YD	1,760	1,760		
42000060	WELDED WIRE REINFORCEMENT	SQ YD	342	342		
42000080	PAVEMENT CONNECTOR (PCC) FOR BRIDGE APPROACH SLAB	SQ YD	342	342		
42001300	PROTECTIVE COAT	SQ YD	342	342		
44000100	PAVEMENT REMOVAL	SQ YD	1,093	1,093		
44000161	HOT-MIX ASPHALT SURFACE REMOVAL, 3"	SQ YD	6,391	6,391		
48203029	HOT-MIX ASPHALT SHOULDERS, 8"	SQ YD	3,049	3,049		
50100300	REMOVAL OF EXISTING STRUCTURES NO. 1	EACH	1		1	
50100400	REMOVAL OF EXISTING STRUCTURES NO. 2	EACH	1			1
50102400	CONCRETE REMOVAL	CU YD	117		117	
50104650	SLOPE WALL REMOVAL	SQ YD	1965			1965
50200100	STRUCTURE EXCAVATION	CU YD	418		214	204
50200300	COFFERDAM EXCAVATION	CU YD	1,094		777	317

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PLOT SCALE = 0.16666633' / in.	DRAWN -	REVISED -
PLOT DATE = 3/18/2022	CHECKED -	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**F.A.P. 332 (U.S. ROUTE 45)
SUMMARY OF QUANTITIES**

SCALE: 1" = 50' SHEET 3 OF 8 SHEETS STA. TO STA.

F.A.P. RTE. 332	SECTION 29B-3; 29B-4	COUNTY SALINE	TOTAL SHEETS 150	SHEET NO. 6
CONTRACT NO. 78716			ILLINOIS FED. AID PROJECT	

CONSTRUCTION CODE
F.A.P. 332 - SALINE COUNTY
FUNDING: 80% FEDERAL, 20% STATE

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	ROADWAY	BRIDGE	BRIDGE
				0004	0010	0010
				RURAL	S.N. 083-0073	S.N. 083-0074
50201101	COFFERDAM (TYPE 1) (LOCATION - 1)	EACH	2			2
50201121	COFFERDAM (TYPE 2) (LOCATION - 1)	EACH	2		2	
50300225	CONCRETE STRUCTURES	CU YD	878.1		484.4	393.7
50300255	CONCRETE SUPERSTRUCTURE	CU YD	741.9		357.1	384.8
50300260	BRIDGE DECK GROOVING	SQ YD	2,537		1,220	1,317
50300300	PROTECTIVE COAT	SQ YD	3,218		1,547	1,671
50301350	CONCRETE SUPERSTRUCTURE (APPROACH SLAB)	CU YD	233.6		116.8	116.8
50500105	FURNISHING AND ERECTING STRUCTURAL STEEL	L SUM	1.0		0.54	0.46
50500505	STUD SHEAR CONNECTORS	EACH	10,227		4,725	5,502
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	434,230		223,100	211,130
50800515	BAR SPLICERS	EACH	2,533		1,271	1,262
50800530	MECHANICAL SPLICERS	EACH	1,076		580	496
51201900	FURNISHING STEEL PILES HP14X89	FOOT	16,725		8,369	8,356
51202305	DRIVING PILES	FOOT	16,725		8,369	8,356

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PLOT SCALE = 0.16666633' / in.	DRAWN -	REVISED -
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	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**F.A.P. 332 (U.S. ROUTE 45)
SUMMARY OF QUANTITIES**

SCALE: 1" = 50' SHEET 4 OF 8 SHEETS STA. TO STA.

F.A.P. RTE. 332	SECTION 29B-3; 29B-4	COUNTY SALINE	TOTAL SHEETS 150	SHEET NO. 7
CONTRACT NO. 78716			ILLINOIS FED. AID PROJECT	

CONSTRUCTION CODE		
F.A.P. 332 - SALINE COUNTY		
FUNDING: 80% FEDERAL, 20% STATE		

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE		
				ROADWAY	BRIDGE	BRIDGE
				0004	0010	0010
				RURAL	S.N. 083-0073	S.N. 083-0074
51203900	TEST PILE STEEL HP14X89	EACH	8		4	4
51500100	NAME PLATES	EACH	2		1	1
52100520	ANCHOR BOLTS, 1"	EACH	112		56	56
52200010	TEMPORARY SHEET PILING	SQ FT	1,454		686	768
542D0229	PIPE CULVERTS, CLASS D, TYPE 1 24"	FOOT	24	24		
54248510	CONCRETE COLLAR	CU YD	0,5	0,5		
54262724	METAL FLARED END SECTIONS 24"	EACH	1	1		
58600101	GRANULAR BACKFILL FOR STRUCTURES	CU YD	237		119	118
59100100	GEOCOMPOSITE WALL DRAIN	SQ YD	136		68	68
60146304	PIPE UNDERDRAINS FOR STRUCTURES 4"	FOOT	212		106	106
* 63000001	STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS	FOOT	525.0	525.0		
* 63100085	TRAFFIC BARRIER TERMINAL, TYPE 6	EACH	4	4		
* 63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	12	12		
63200310	GUARDRAIL REMOVAL	FOOT	2,926	2,926		

* SPECIALTY ITEM

REV. - MS

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USER NAME = moverbey	DESIGNED -	REVISED -
PLOT SCALE = 0.16666633' / in.	DRAWN -	REVISED -
PLOT DATE = 3/18/2022	CHECKED -	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**F.A.P. 332 (U.S. ROUTE 45)
SUMMARY OF QUANTITIES**

SCALE: 1" = 50' SHEET 5 OF 8 SHEETS STA. TO STA.

F.A.P. RTE. 332	SECTION 29B-3; 29B-4	COUNTY SALINE	TOTAL SHEETS 150	SHEET NO. 8
CONTRACT NO. 78716			ILLINOIS FED. AID PROJECT	

CONSTRUCTION CODE		
F.A.P. 332 - SALINE COUNTY		
FUNDING: 80% FEDERAL, 20% STATE		

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	ROADWAY	BRIDGE	BRIDGE
				0004	0010	0010
				RURAL	S.N. 083-0073	S.N. 083-0074
64200108	SHOULDER RUMBLE STRIPS, 8 INCH	FOOT	5,196	5,196		
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	36	36		
67100100	MOBILIZATION	L SUM	1	1		
70100405	TRAFFIC CONTROL AND PROTECTION, STANDARD 701321	EACH	2	2		
70100450	TRAFFIC CONTROL AND PROTECTION, STANDARD 701201	L SUM	1	1		
70100460	TRAFFIC CONTROL AND PROTECTION, STANDARD 701306	L SUM	1	1		
70100500	TRAFFIC CONTROL AND PROTECTION, STANDARD 701326	L SUM	1	1		
70103815	TRAFFIC CONTROL SURVEILLANCE	CAL DA	730	730		
70106500	TEMPORARY BRIDGE TRAFFIC SIGNALS	EACH	2		1	1
70106700	TEMPORARY RUMBLE STRIPS	EACH	6	6		
70107025	CHANGEABLE MESSAGE SIGN	CAL DA	56	56		
70300100	SHORT TERM PAVEMENT MARKING	FOOT	728	728		
70300150	SHORT TERM PAVEMENT MARKING REMOVAL	SQ FT	4,050	4,050		
70300221	TEMPORARY PAVEMENT MARKING - LINE 4"- PAINT	FOOT	7,364	7,364		

REV. - MS

MODEL: S00-4 (Sheet)
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USER NAME = moverbey	DESIGNED -	REVISED -
PLOT SCALE = 0.16666633' / in.	DRAWN -	REVISIED -
PLOT DATE = 3/18/2022	CHECKED -	REVISIED -
	DATE -	REVISIED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**F.A.P. 332 (U.S. ROUTE 45)
SUMMARY OF QUANTITIES**

SCALE: 1" = 50' SHEET 6 OF 8 SHEETS STA. TO STA.

F.A.P. RTE. 332	SECTION 29B-3; 29B-4	COUNTY SALINE	TOTAL SHEETS 150	SHEET NO. 9
CONTRACT NO. 78716			ILLINOIS FED. AID PROJECT	

CONSTRUCTION CODE		
F.A.P. 332 - SALINE COUNTY		
FUNDING: 80% FEDERAL, 20% STATE		

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	ROADWAY	BRIDGE	BRIDGE
				0004	0010	0010
				RURAL	S.N. 083-0073	S.N. 083-0074
70300281	TEMPORARY PAVEMENT MARKING - LINE 24"- PAINT	FOOT	48	48		
70306120	TEMPORARY PAVEMENT MARKING - LINE 4" - TYPE III TAPE	FOOT	11,120	11,120		
70400100	TEMPORARY CONCRETE BARRIER	FOOT	1,412.5	1,412.5		
70400125	PINNING TEMPORARY CONCRETE BARRIER	EACH	192	192		
70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	1,412.5	1,412.5		
70600260	IMPACT ATTENUATORS, TEMPORARY (FULLY REDIRECTIVE, NARROW), TEST LEVEL 3	EACH	4	4		
70600332	IMPACT ATTENUATORS, RELOCATE (FULLY REDIRECTIVE, NARROW), TEST LEVEL 3	EACH	4	4		
* 72501000	TERMINAL MARKER - DIRECT APPLIED	EACH	12	12		
* 78009004	MODIFIED URETHANE PAVEMENT MARKING - LINE 4"	FOOT	7,364	7,364		
* 78011025	GROOVING FOR RECESSED PAVEMENT MARKING 5"	FOOT	690	690		
* 78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	34	34		
* 78112000	RAISED REFLECTIVE PAVEMENT MARKER (BRIDGE)	EACH	7	7		
* 78200005	GUARDRAIL REFLECTORS, TYPE A	EACH	40	40		
* 78200011	BARRIER WALL REFLECTORS, TYPE C	EACH	232	232		

* SPECIALTY ITEM

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USER NAME = moverbey	DESIGNED -	REVISED -
PLOT SCALE = 0.16666633' / in.	DRAWN -	REVISED -
PLOT DATE = 3/18/2022	CHECKED -	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**F.A.P. 332 (U.S. ROUTE 45)
SUMMARY OF QUANTITIES**

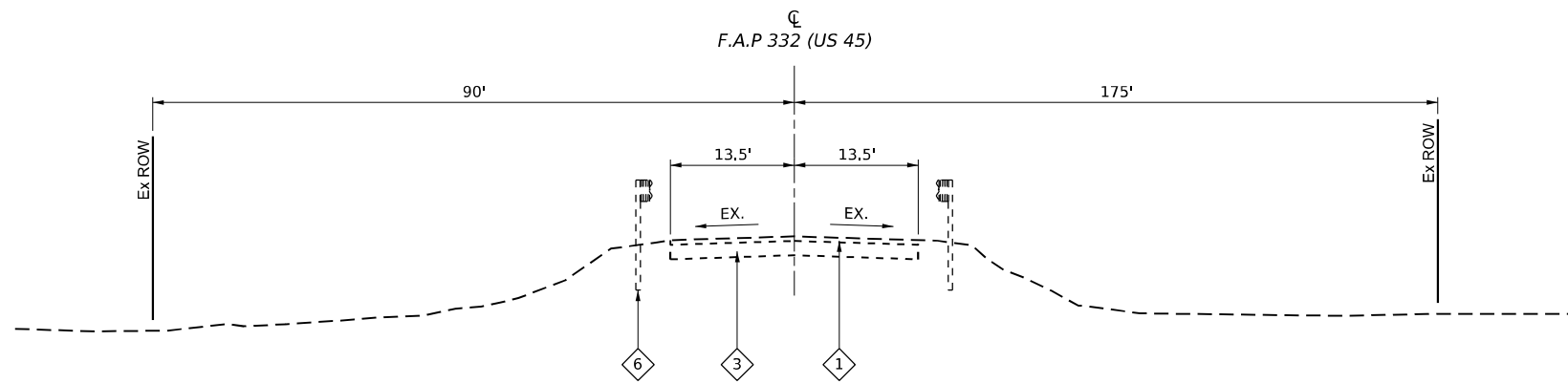
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	29B-3; 29B-4	SALINE	150	10
CONTRACT NO. 78716				
ILLINOIS FED. AID PROJECT				

DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	
NO.	

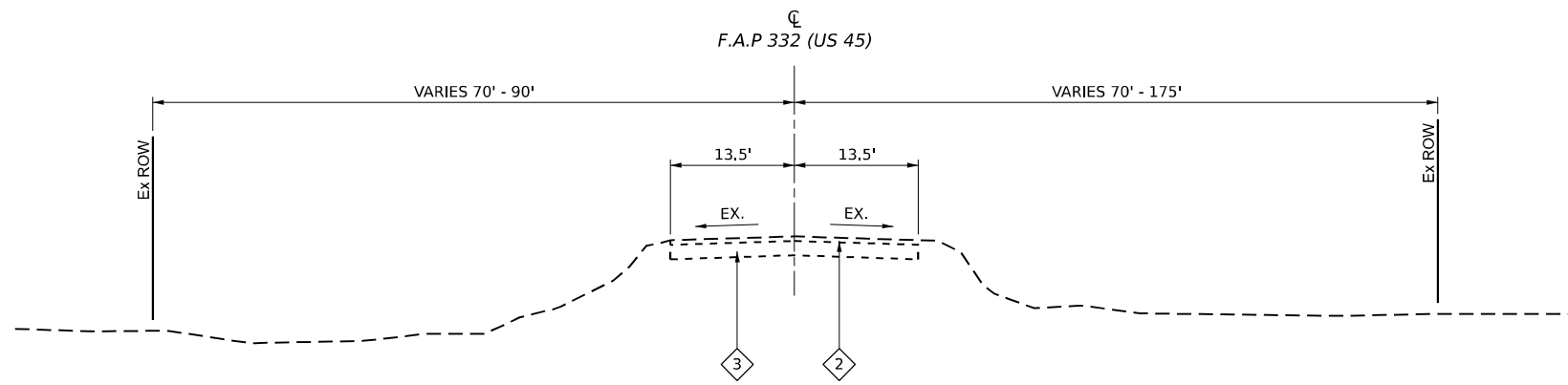
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BY	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
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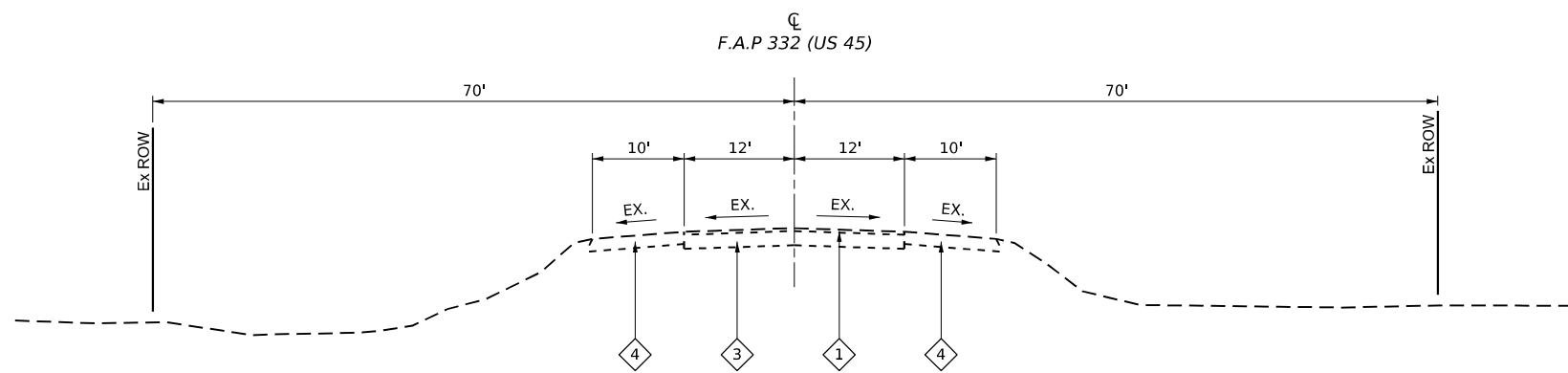
EXISTING FAP ROUTE 332 (US 45)

STA 701+30.78 R2 TO STA 703+37.49 R2
STA 705+82.75 R2 TO STA 707+90.82 R2
STA 719+46.72 R2 TO STA 720+11.17 R2
STA 722+33.78 R2 TO STA 722+98.98 R2



EXISTING FAP ROUTE 332 (US 45)

STA 693+11.39 R2 TO STA 701+30.78 R2
STA 707+90.82 R2 TO STA 719+46.72 R2
STA 722+98.98 R2 TO STA 731+00.00 R2



EXISTING FAP ROUTE 332 (US 45)

STA 692+50.00 R2 TO STA 693+11.40 R2

TYPICAL SECTION LEGEND

- ① EXISTING BITUMINOUS OVERLAY, 2"
- ② EXISTING BITUMINOUS OVERLAY, 3"
- ③ EXISTING PCC BASE COURSE
- ④ EXISTING HOT-MIX ASPHALT SHOULDER, 8"
- ⑤ EXISTING HOT-MIX ASPHALT SHOULDER, 3"
- ⑥ EXISTING GUARDRAIL
- ⑦ PROPOSED SUBBASE GRANULAR MATERIAL TYPE A, 4"
- ⑧ PROPOSED HOT-MIX ASPHALT (FULL-DEPTH), 11 1/4"
- ⑨ PROPOSED HOT-MIX ASPHALT SHOULDER, 8"
- ⑩ PROPOSED HOT-MIX ASPHALT SURFACE REMOVAL, 3"
- ⑪ HMA BINDER COURSE, IL-9.5, N70, 1 1/2" & VAR.
- ⑫ HMA SURFACE COURSE, IL-9.5, MIX "D", N70, 1 1/2"
- ⑬ PROPOSED SUBBASE GRANULAR MATERIAL TYPE A, 12"
- ⑭ PROPOSED STEEL PLATE BEAM GUARDRAIL

USER NAME = moverbey	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 0.16666633 1/16 in.	CHECKED -	REVISED -
PLOT DATE = 11/11/2022	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

F.A.P. 332 (U.S. ROUTE 45)
TYPICAL SECTION - EXISTING

SCALE: NTS SHEET 1 OF 2 SHEETS STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	29B-3; 29B-4	SALINE	150	12
CONTRACT NO.				
ILLINOIS FED. AID PROJECT				

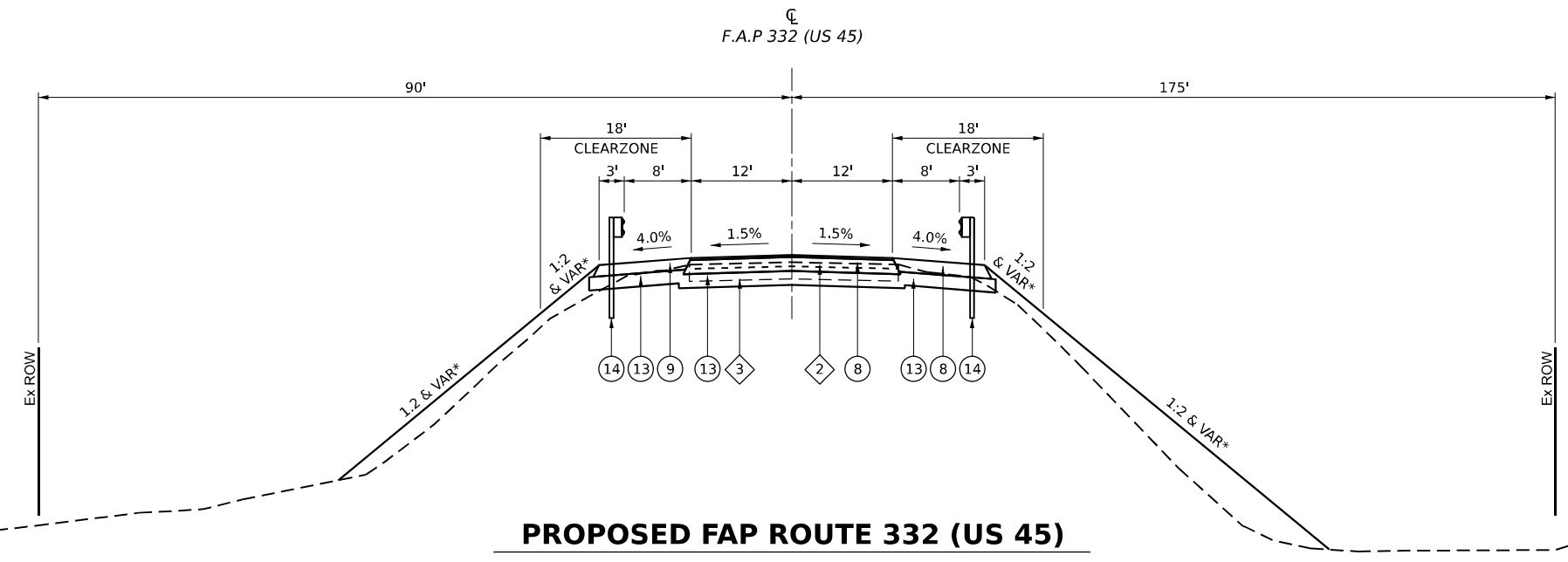
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AREAS CHECKED	
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DATE	
BY	
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NO.	

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TYPICAL SECTION LEGEND

- 1 EXISTING BITUMINOUS OVERLAY, 2"
- 2 EXISTING BITUMINOUS OVERLAY, 3"
- 3 EXISTING PCC BASE COURSE
- 4 EXISTING HOT-MIX ASPHALT SHOULDER, 8"
- 5 EXISTING HOT-MIX ASPHALT SHOULDER, 3"
- 6 EXISTING GUARDRAIL
- 7 PROPOSED SUBBASE GRANULAR MATERIAL TYPE A, 4"
- 8 PROPOSED HOT-MIX ASPHALT (FULL-DEPTH), 11 1/4"
- 9 PROPOSED HOT-MIX ASPHALT SHOULDER, 8"
- 10 PROPOSED HOT-MIX ASPHALT SURFACE REMOVAL, 3"
- 11 HMA BINDER COURSE, IL-9.5, N70, 1 1/2" & VAR.
- 12 HMA SURFACE COURSE, IL-9.5, MIX "D", N70, 1 1/2"
- 13 PROPOSED SUBBASE GRANULAR MATERIAL TYPE A, 12"
- 14 PROPOSED STEEL PLATE BEAM GUARDRAIL



PROPOSED FAP ROUTE 332 (US 45)

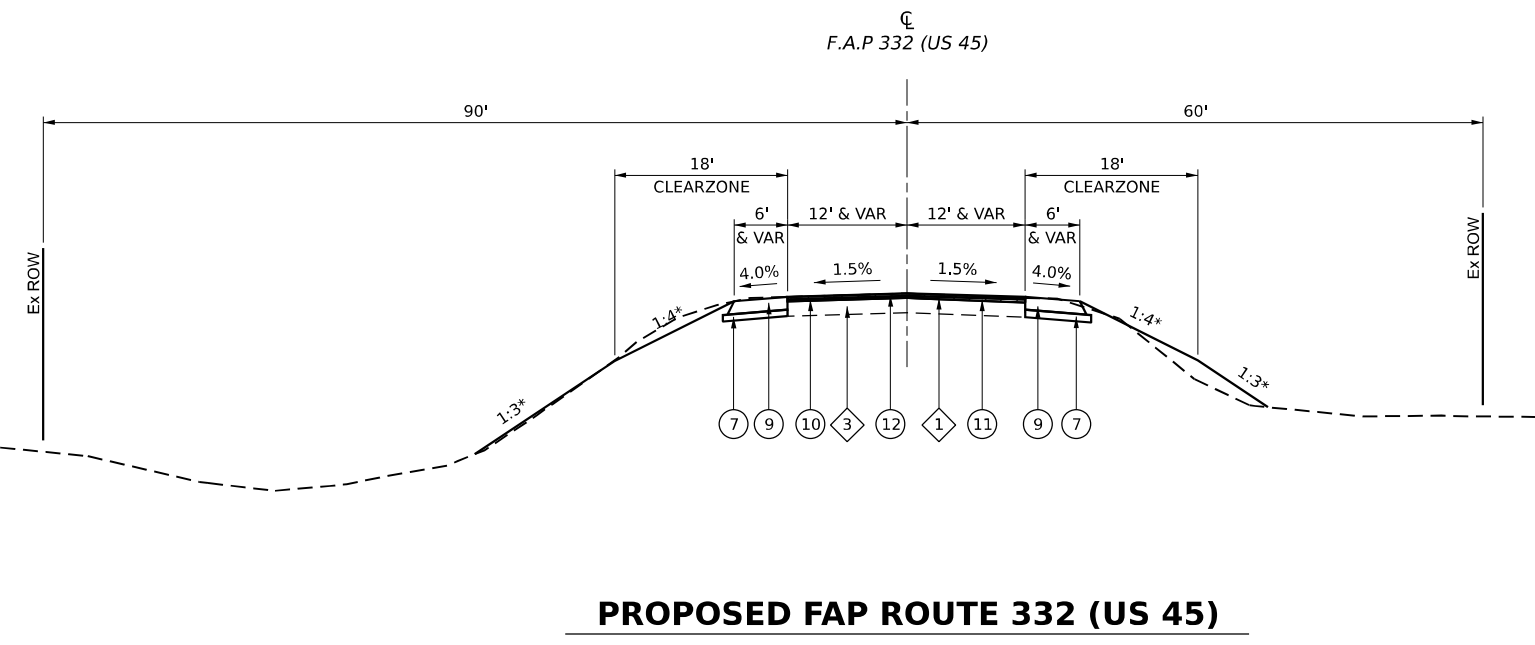
STA 702+25.00 R2 TO STA 703+04.93 R2
 STA 706+16.84 R2 TO STA 706+75.00 R2
 STA 719+45.00 R2 TO STA 719+78.50 R2
 STA 722+67.50 R2 TO STA 723+55.00 R2

SHOULDER CROSS SLOPE TRANSITIONS AT STRUCTURES

STATION (BEGIN)	TO	STATION (END)	SIDE	CROSS SLOPE (BEGIN)	CROSS SLOPE (END)
702+79.84 R2	TO	703+04.84 R2	LT / RT	4.00%	2.00%
706+16.84 R2	TO	706+41.84 R2	LT / RT	2.00%	4.00%
719+53.50 R2	TO	719+78.50 R2	LT / RT	4.00%	2.00%
722+67.50 R2	TO	722+92.50 R2	LT / RT	2.00%	4.00%

* FORESLOPE TRANSITIONS

STATION	TO	STATION	SIDE	CLEARZONE SLOPE BEGIN	CLEARZONE SLOPE END	FILL SLOPE BEGIN	FILL SLOPE END
701+19.84 R2	TO	703+19.84 R2	LT / RT	1:4	1:2		
701+86.51 R2	TO	703+19.84 R2	LT / RT			1:3	1:2
703+19.84 R2	TO	703+33.84 R2	LT / RT			1:2	1:2
703+19.84 R2	TO	703+33.84 R2	LT / RT	1:2	1:2		
705+86.84 R2	TO	706+01.84 R2	LT / RT			1:2	1:2
706+01.84 R2	TO	707+35.17 R2	LT / RT			1:2	1:3
706+01.84 R2	TO	708+01.84 R2	LT / RT	1:2	1:4		
718+62.50 R2	TO	718+78.50 R2	LT	1:4	1:6		
718+78.50 R2	TO	718+96.50 R2	LT	1:6	1:6		
718+96.50 R2	TO	719+05.98 R2	LT	1:6	1:4		
719+93.50 R2	TO	720+02.50 R2	LT / RT	1:4	1:3		
720+02.50 R2	TO	720+07.50 R2	LT / RT			1:3	1:2
720+02.50 R2	TO	720+07.50 R2	LT / RT	1:3	1:2		
722+38.50 R2	TO	722+48.50 R2	LT / RT	1:2	1:4		
722+38.50 R2	TO	722+48.50 R2	LT / RT			1:2	1:3



PROPOSED FAP ROUTE 332 (US 45)

STA 693+11.40 R2 TO STA 702+25.00 R2
 STA 706+75.00 R2 TO STA 719+45.00 R2
 STA 723+55.00 R2 TO STA 725+67.50 R2

USER NAME = moverbey	DESIGNED -	REVISED -
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PLOT SCALE = 0.16666633 1/16"	CHECKED -	REVISED -
PLOT DATE = 11/11/2022	DATE -	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

F.A.P. 332 (U.S. ROUTE 45)
 TYPICAL SECTIONS - PROPOSED

SCALE: NTS SHEET 2 OF 2 SHEETS STA.

F.A.P. RTE. 332	SECTION 29B-3; 29B-4	COUNTY SALINE	TOTAL SHEETS 150	SHEET NO. 13
CONTRACT NO. 78716				
ILLINOIS FED. AID PROJECT				

EARTHWORK SCHEDULE

LOCATION			EARTH EXCAVATION	AVERAGE SHRINKAGE FACTOR	EARTH EXCAVATION (ADJUSTED)	EMBANKMENT	EARTHWORK BALANCE		BORROW EXCAVATION *	REMARKS
							EXCAVATION REQUIRED TO COMPLETE	EXCESS EXCAVATION		
STA.	TO	STA.	CU YD	%	CU YD	CU YD	CU YD	CU YD	CU YD	
693+11.39 R2	TO	695+00.00	50	25%	38	247	210		247	
695+00.00 R2	TO	701+00.00	318	25%	239	1,453	1,215		1,433	
701+00.00 R2	TO	707+00.00	321	25%	241	2,148	1,907		2,251	
707+00.00 R2	TO	713+00.00	287	25%	215	4,010	3,795		4,478	
713+00.00 R2	TO	719+00.00	361	25%	271	3,293	3,022		3,566	
719+00.00 R2	TO	725+00.00	304	25%	228	1,433	1,205		1,422	
725+00.00 R2	TO	728+00.00	34	25%	25	299	274		323	
ENTRANCE LOCATION 1			10	25%	8	155	148		174	
ENTRANCE LOCATION 2			10	25%	8	55	48		56	
ENTRANCE LOCATION 3			10	25%	8	215	208		245	
ENTRANCE LOCATION 4			10	25%	8	295	288		340	
SN 0073			1,187	25%	890	46		1,126		
SN 0074			318	25%	238	167		95		
TOTALS			3,220						14,540	

* BORROW EXCAVATION QUANTITY = EXCAVATION REQUIRED x 1.18

CHANNEL EXCAVATION SCHEDULE

LOCATION	CHANNEL EXCAVATION
	CU YD
SN 083-0073	2,660
SN 083-0074	790
TOTAL	3,450

SEEDING SCHEDULE

LOCATION			SEEDING, CLASS 2	SEEDING, CLASS 7	NITROGEN FERTILIZER NUTRIENT	PHOSPHORUS FERTILIZER NUTRIENT	POTASSIUM FERTILIZER NUTRIENT	AGRICULTURAL GROUND LIMESTONE	MOWING	MULCH, METHOD 2
STA.	TO	STA.	ACRE	ACRE	POUND	POUND	POUND	TON	ACRE	ACRE
693+11.39 R2	TO	695+00.00 R2	0.15	0.15	14	14	14	0.3	0.15	0.15
695+00.00 R2	TO	701+00.00 R2	0.75	0.75	68	68	68	1.5	0.75	0.75
701+00.00 R2	TO	707+00.00 R2	0.75	0.75	69	69	69	1.5	0.75	0.50
707+00.00 R2	TO	713+00.00 R2	1.80	1.80	163	163	163	3.6	1.80	1.80
713+00.00 R2	TO	719+00.00 R2	1.20	1.20	109	109	109	2.4	1.20	1.20
719+00.00 R2	TO	725+67.50 R2	0.85	0.85	77	77	77	1.8	0.85	0.85
TOTAL			5.50	5.50	500	500	500	11.1	5.50	5.25

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	DRAWN -	REVISED -
PLOT SCALE = 0.16666633 1/ in.	CHECKED -	REVISED -
PLOT DATE = 12/9/2022	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

F.A.P. 332 (U.S. ROUTE 45)
SCHEDULE OF QUANTITIES

SCALE: 1" = 50' SHEET 1 OF 5 SHEETS STA. TO STA.

F.A.P. RTE. 332	SECTION 29B-3; 29B-4	COUNTY SALINE	TOTAL SHEETS 150	SHEET NO. 14
CONTRACT NO. 78716			ILLINOIS FED. AID PROJECT	

HOT-MIX ASPHALT PAVEMENT SCHEDULE

LOCATION			SUBBASE GRANULAR MATERIAL, TYPE A 4"	SUBBASE GRANULAR MATERIAL, TYPE A 12"	BITUMINOUS MATERIALS (PRIME COAT)	BITUMINOUS MATERIALS (TACK COAT)	LONGITUDINAL JOINT SEALANT	HMA SURFACE REMOVAL - BUTT JOINT	TEMPORARY RAMP	HMA BINDER COURSE, IL-9.5, N70	HMA SURFACE COURSE, IL-9.5, MIX "D", N70	BITUMINOUS MATERIALS (TACK COAT)	HMA PAVEMENT (FULL-DEPTH), 11 1/4"	PAVEMENT REMOVAL	HMA ASPHALT SURFACE REMOVAL, 3"	HMA SHOULDERS, 8"	SHOULDER RUMBLE STRIPS, 8 INCH
STA.	TO	STA.	SQ YD	SQ YD	POUND	POUND	FOOT	FOOT	SQ YD	TON	TON	POUND	SQ YD	SQ YD	SQ YD	SQ YD	FOOT
693+11.39 R2	TO	695+00.00 R2	277		607	407	189	96	116	52.3	43.5				422	256	378
695+00.00 R2	TO	701+00.00 R2	806	41	1,904	1,287	600			183.5	138.4	27.0	39		1,650	741	1200
701+00.00 R2	TO	702+89.84 R2	161	593	1,494	281	190		52	61.8	28.4	277.0	411	312	347	233	380
706+31.84 R2	TO	707+00.00 R2	32	347	651	65	69		52	17.4	5.7	134.0	199	253	69	83	138
707+00.00 R2	TO	713+00.00 R2	725	285	2,271	1,252	600			219.8	136.9	182.0	270		1,634	674	1200
713+00.00 R2	TO	719+00.00 R2	632	308	2,115	1,247	600			186.9	138.9	198.0	294		1,660	582	1200
719+00.00 R2	TO	719+63.50 R2	59	250	479	102	64		52	29.4	10.4	90.0	133	191	125	81	128
722+82.50 R2	TO	725+00.00 R2	205	89	1,583	326	218		52	75.9	32.5	280.0	414	337	393	293	436
725+00.00 R2	TO	725+67.50 R2	114	525	256	148	68	95	116	18.5	15.5				91	106	136
TOTAL			3,011	2,438	11,360	5,115	2,598	191	440	845.5	550.2	1,188	1,760	1,093	6,391	3,049	5,196

PCC CONNECTOR SCHEDULE

LOCATION			WELDED WIRE REINFORCEMENT	PAVEMENT CONNECTOR (PCC) FOR BRIDGE APPROACH SLAB	PROTECTIVE COAT
STA.	TO	STA.	SQ YD	SQ YD	SQ YD
702+89.84 R2	TO	703+04.84 R2	85	85	85
706+16.84 R2	TO	706+31.84 R2	85	85	85
719+63.50 R2	TO	719+78.50 R2	86	86	86
722+67.50 R2	TO	722+82.50 R2	86	86	86
TOTAL			342	342	342

MODEL: SCH-1 (15x11)
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USER NAME = moverbey	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 0.16666633 ' / in.	CHECKED -	REVISED -
PLOT DATE = 12/9/2022	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

F.A.P. 332 (U.S. ROUTE 45)
SCHEDULE OF QUANTITIES

SCALE: 1" = 50' SHEET 2 OF 5 SHEETS STA. TO STA.

F.A.P. RTE. 332	SECTION 29B-3; 29B-4	COUNTY SALINE	TOTAL SHEETS 150	SHEET NO. 15
CONTRACT NO. 78716				
ILLINOIS FED. AID PROJECT				

Long Section Number

PAVEMENT MARKING SCHEDULE

LOCATION			MODIFIED URETHANE PAVEMENT MARKING - LINE 4"		GROOVING FOR RECESSED PAVEMENT MARKING 5"	RAISED REFLECTIVE PAVEMENT MARKER	RAISED REFLECTIVE PAVEMENT MARKER (BRIDGE)	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL
			WHITE	YELLOW				
STA.	TO	STA.	FOOT	FOOT	FOOT	EACH	EACH	EACH
693+11.39 R2	TO	695+00.00 R2	378	50	50	3		3
695+00.00 R2	TO	701+00.00 R2	1,200	150	150	7		7
701+00.00 R2	TO	707+00.00 R2	1,200	170	90	4	4	8
707+00.00 R2	TO	713+00.00 R2	1,200	150	150	7		7
713+00.00 R2	TO	719+00.00 R2	1,200	150	150	8		8
719+00.00 R2	TO	725+00.00 R2	1,200	160	80	4	3	7
725+00.00 R2	TO	725+67.50 R2	136	20	20	1		1
TOTAL			7,364		690	34	7	41

*GROOVING FOR RECESSED PAVEMENT MARKING SHALL NOT BE PERMITTED ON THE BRIDGE DECKS

TEMPORARY PAVEMENT MARKING SCHEDULE

LOCATION			SHORT TERM PAVEMENT MARKING	SHORT TERM PAVEMENT MARKING REMOVAL	TEMPORARY PAVEMENT MARKING - LINE 4" - PAINT	TEMPORARY PAVEMENT MARKING - LINE 24" - PAINT	TEMPORARY PAVEMENT MARKING - LINE 4" - TYPE III TAPE	PAVEMENT MARKING REMOVAL - GRINDING
			FOOT	SQ FT	FOOT	FOOT	FOOT	SQ FT
STA.	TO	STA.	FOOT	SQ FT	FOOT	FOOT	FOOT	SQ FT
693+11.39 R2	TO	695+00.00 R2	52	18	428			286
695+00.00 R2	TO	701+00.00 R2	160	370	1,350	24	800	900
701+00.00 R2	TO	707+00.00 R2	84	828	1,370		2,400	907
707+00.00 R2	TO	713+00.00 R2	160	854	1,350		2,400	900
713+00.00 R2	TO	719+00.00 R2	160	854	1,350		2,400	900
719+00.00 R2	TO	725+00.00 R2	88	830	1,360		2,400	904
725+00.00 R2	TO	725+67.50 R2	24	248	156		720	104
725+67.50 R2	TO	728+00.00 R2		48		24		
TOTAL			728	4,050	7,364	48	11,120	4,901

MODEL: SCH-3 (Rev.1)
FILE NAME: E:\DOT\190661.DWG_10\Drawn\Roadway\CADD_Sheets\0918716_sch-schedule.dgn

USER NAME = moverbey	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	F.A.P. 332 (U.S. ROUTE 45) SCHEDULE OF QUANTITIES			F.A.P. RTE. 332	SECTION 29B-3; 29B-4	COUNTY SALINE	TOTAL SHEETS 150	SHEET NO. 16
PLOT SCALE = 0.16666633 1/ in.	CHECKED -	REVISED -		SCALE: 1" = 50'			SHEET 3 OF 5 SHEETS			STA. TO STA.	
PLOT DATE = 12/9/2022	DATE -	REVISED -		ILLINOIS FED. AID PROJECT			CONTRACT NO. 78716				
Long Section Number											

GUARDRAIL SCHEDULE

LOCATION				STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS	TRAFFIC BARRIER TERMINAL, TYPE 6	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	GUARDRAIL REMOVAL	TERMINAL MARKER - DIRECT APPLIED	GUARDRAIL REFLECTORS, TYPE A	TRAFFIC BARRIER TERMINAL, TYPE 6 (MODIFIED)
STA.	TO	STA.	OFFSET	FOOT	EACH	EACH	FOOT	EACH	EACH	EACH
701+07.96 R2	TO	705+00.00 R2	LT	125.0	1	1	482	1	4	
701+07.96 R2	TO	705+00.00 R2	RT	125.0	1	1	532	1	4	
705+00.00 R2	TO	708+13.72 R2	LT	125.0	1	1	375	1	4	
705+00.00 R2	TO	708+13.72 R2	RT	125.0	1	1	325	1	4	
717+48.50 R2	TO	718+60.96 R2	RT	12.5		2		2	4	
719+16.00 R2	TO	721+00.00 R2	LT			1	257	1	4	1
719+16.00 R2	TO	721+00.00 R2	RT			1	257	1	4	1
721+00.00 R2	TO	723+30.00 R2	LT			1	349	1	4	1
721+00.00 R2	TO	723+30.00 R2	RT			1	349	1	4	1
723+85.04 R2	TO	724+97.50 R2	LT	12.5		2		2	4	
TOTAL				525.0	4	12	2,926	12	40	4

ENTRANCE SCHEDULE

LOCATION		AGGREGATE SURFACE COURSE, TYPE B
		TON
ENTRANCE LOCATION 1	LT	100.2
ENTRANCE LOCATION 2	RT	66.0
ENTRANCE LOCATION 3	LT	79.6
ENTRANCE LOCATION 4	RT	70.2
TOTAL		316.0

* SEE SHEET 108 FOR LOCATIONS

MODEL: SCH-3 (17x11)
 FILE NAME: E:\DOT\1906610\VO_10\Drawn\Roadway\CADD_Sheets\0978716_sch-schedule.dgn

USER NAME = moverbey PLOT SCALE = 0.16666633 1/ in. PLOT DATE = 12/9/2022	DESIGNED - DRAWN - CHECKED - DATE -	REVISED - REVISED - REVISED - REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	F.A.P. 332 (U.S. ROUTE 45) SCHEDULE OF QUANTITIES	F.A.P. RTE. 332 SECTION 29B-3; 29B-4 COUNTY SALINE TOTAL SHEETS 150 SHEET NO. 17 CONTRACT NO. 78716	SCALE: 1" = 50' SHEET 4 OF 5 SHEETS STA. TO STA.	ILLINOIS FED. AID PROJECT Long Section Number
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MAINTENANCE OF TRAFFIC SCHEDULE

STATION			HMA BASE COURSE WIDENING, 8"	TEMPORARY CONCRETE BARRIER	PINNING TEMPORARY CONCRETE BARRIER	RELOCATE TEMPORARY CONCRETE BARRIER	IMPACT ATTENUATOR, TEMPORARY (FULLY-REDIRECTIVE), TEST LEVEL 3	IMPACT ATTENUATOR, RELOCATE (FULLY-REDIRECTIVE), TEST LEVEL 3	BARRIER WALL REFLECTORS, TYPE C
STA.	TO	STA.	SQ YD	FOOT	EACH	FOOT	EACH	EACH	EACH
700+67.00 R2	TO	701+00.00 R2		15.0		15.0	1	1	4
701+00.00 R2	TO	707+00.00 R2	103	600.0	96	600.0			96
707+00.00 R2	TO	708+10.00 R2	28	85.0		110.0	1	1	16
717+87.00 R2	TO	719+00.00 R2	17	95.0		94.5	1	1	16
719+00.00 R2	TO	725+00.00 R2	102	617.5	96	593.0	1	1	100
TOTAL			250	1,412.5	192	1,412.5	4	4	232

EROSION CONTROL SCHEDULE

LOCATION				EROSION CONTROL BLANKET	TEMPORARY EROSION CONTROL SEEDING	PERIMETER EROSION BARRIER	INLET AND PIPE PROTECTION	TEMPORARY CONSTRUCTION FENCE
STA.	TO	STA.	TO	SQ YD	POUND	FOOT	EACH	FOOT
693+11.39 R2	TO	695+00.00 R2	LT		8	213		
693+11.40 R2	TO	695+00.00 R2	RT		7	207		
695+00.00 R2	TO	701+00.00 R2	LT		37	617		474
695+00.00 R2	TO	701+00.00 R2	RT		35	603		201
701+00.00 R2	TO	707+00.00 R2	LT	2,066	29	351		611
701+00.00 R2	TO	707+00.00 R2	RT	382	32	351		625
707+00.00 R2	TO	713+00.00 R2	LT		68	601		601
707+00.00 R2	TO	713+00.00 R2	RT		69	601		601
713+00.00 R2	TO	719+00.00 R2	LT		58	619		563
713+00.00 R2	TO	719+00.00 R2	RT		58	633		601
719+00.00 R2	TO	725+67.50 R2	LT		39	555	1	
719+00.00 R2	TO	725+67.50 R2	RT		33	625		
TOTAL				2,448	473	5,976	1	4,277

TREE REMOVAL SCHEDULE

LOCATION				TREE REMOVAL (6 TO 15 UNITS DIAMETER)	TREE REMOVAL, ACRES
STA.	TO	STA.	OFFSET	UNIT	ACRE
705+98.32 R2	TO	706+66.31 R2	LT		0.04
706+60.00 R2	TO	708+33.12 R2	LT		0.04
720+41.16 R2	TO	720+47.86 R2	LT		0.02
723+24.68 R2	TO	725+67.50 R2	LT		0.15
721+76.55 R2			87.3' RT	15	
721+97.49 R2			65.2' RT	15	
722+00.60 R2			60.9' RT	15	
TOTAL				45	0.25

MODEL: SCH-4 (Sheet)
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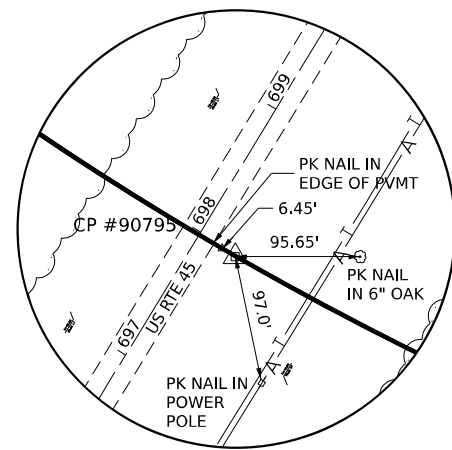
USER NAME = moverbey	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 0.16666633 ' / in.	CHECKED -	REVISED -
PLOT DATE = 12/9/2022	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

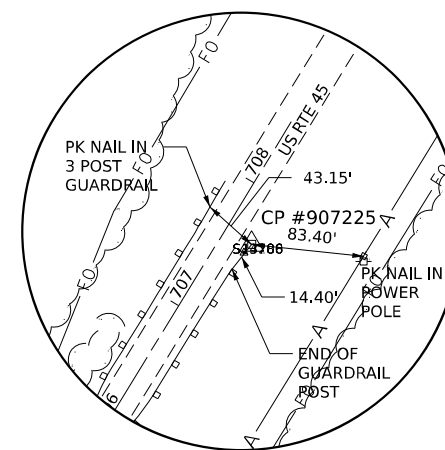
F.A.P. 332 (U.S. ROUTE 45)
SCHEDULE OF QUANTITIES

SCALE: 1" = 50' SHEET 5 OF 5 SHEETS STA. TO STA.

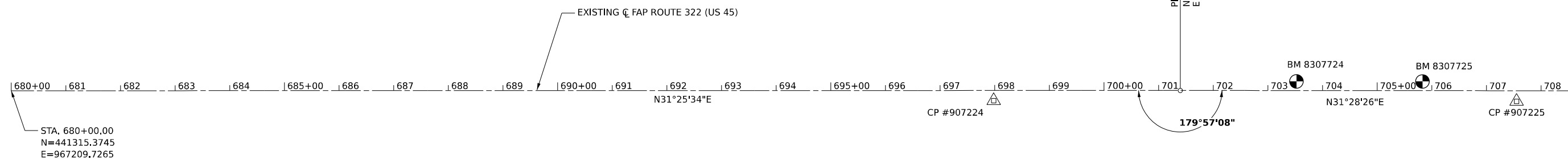
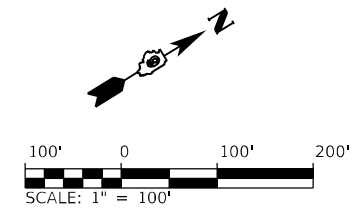
F.A.P. RTE. 332	SECTION 29B-3; 29B-4	COUNTY SALINE	TOTAL SHEETS 150	SHEET NO. 18
CONTRACT NO. 78716			ILLINOIS FED. AID PROJECT	



IRON PIN WITH CAP
 STA. 697+97.90, 18.62' RT.
 N = 442839.8430
 E = 968163.0380



IRON PIN WITH CAP
 STA. 707+54.98, 19.60' RT.
 N = 443655.7362
 E = 968663.3261



BM 8307724 - CHIS. "□" ON TOP OF WINGWALL OF SW CORNER OF STR #083-0002 ALONG U.S. 45, STA. 703+50±, 17' LT. ELEV: 370.450'

BM 8307725 - CHIS. "□" ON TOP OF WINGWALL OF NW CORNER OF STR #083-0002 ALONG U.S. 45, STA. 705+88±, 17' LT. ELEV: 370.449'

MODEL: E:\41616-4TR (Sheet)
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USER NAME = moverbey	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 0.16666633 1/ in.	CHECKED -	REVISED -
PLOT DATE = 11/11/2022	DATE -	REVISED -

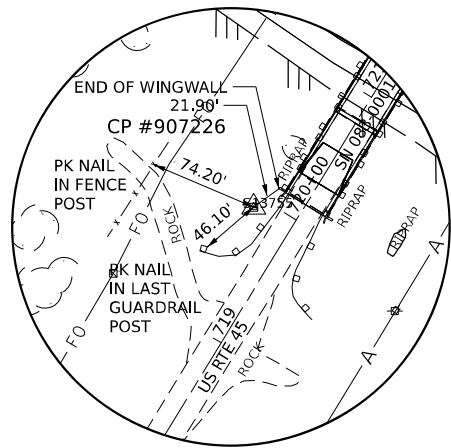
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**F.A.P. 332 (U.S. ROUTE 45)
 ALIGNMENT, TIES, AND BENCHMARKS**

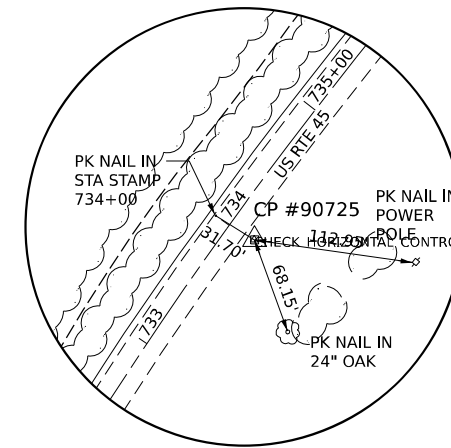
SCALE: 1" = 100' SHEET 1 OF 2 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	29B-3; 29B-4	SALINE	150	19
CONTRACT NO. 78716				

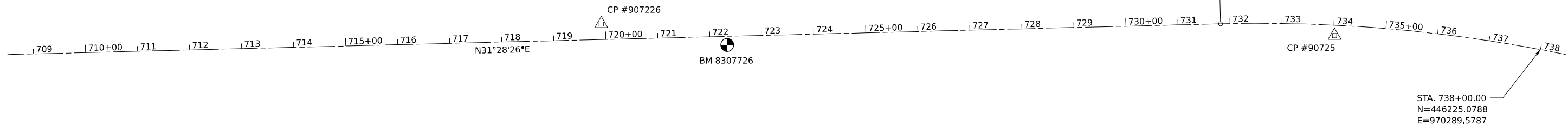
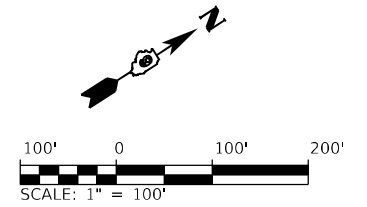
Long Section Number ILLINOIS FED. AID PROJECT



IRON PIN WITH CAP
 STA. 719+92.19, 29.93' LT.
 N = 444736.7867
 E = 969267.0436



IRON PIN WITH CAP
 STA. 707+54.98, 19.60' RT.
 N = 443655.7362
 E = 968663.3261



BM 8307726 - CHIS. "□" ON TOP OF WINGWALL OF NE CORNER OF STR #083-0001
 ALONG U.S. 45, STA. 7222+20±, 17' RT.
 ELEV: 370.505'

DESCRIPTION	NORTHING	EASTING
US ROUTE 45		
PC STA 731+82.13	445736.025	969913.851
PI STA. 739+10.70	446357.406	970294.246
PT STA 746+10.13	446727.335	970921.914

MODEL: E:\41664-4TB-1 (Sheet)
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USER NAME = moverbey	DESIGNED -	REVISED -
PLOT SCALE = 0.16666633 1/ in.	DRAWN -	REVISED -
PLOT DATE = 11/11/2022	CHECKED -	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**F.A.P. 332 (U.S. ROUTE 45)
 ALIGNMENT, TIES, AND BENCHMARKS**

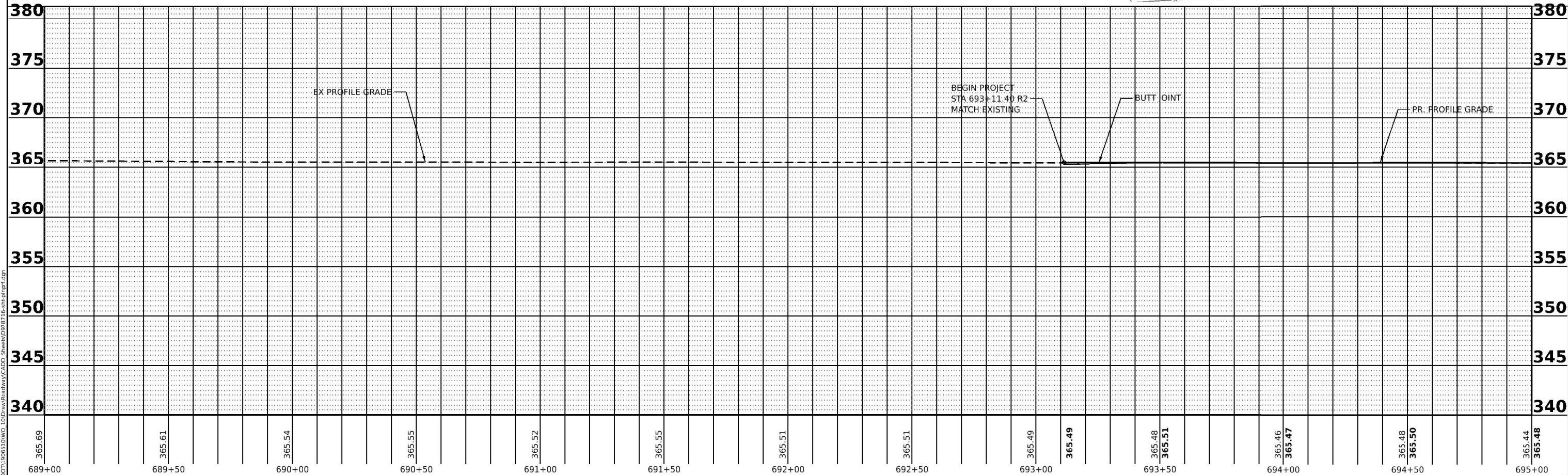
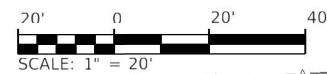
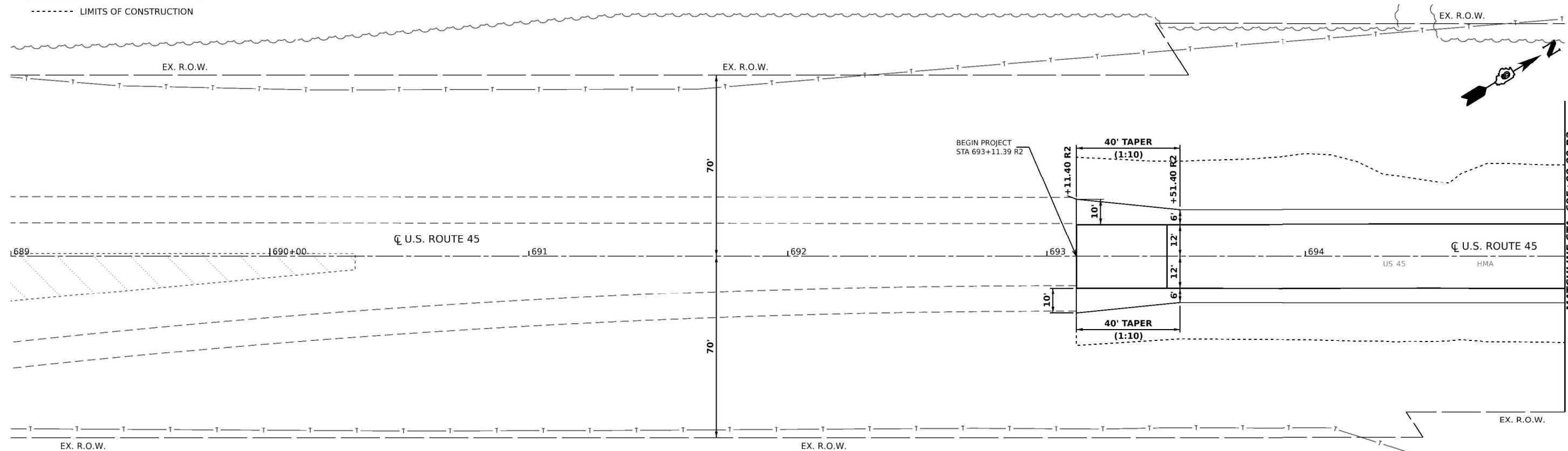
SCALE: 1" = 100' SHEET 2 OF 2 SHEETS STA. TO STA.

F.A.P. RTE. 332	SECTION 29B-3; 29B-4	COUNTY SALINE	TOTAL SHEETS 150	SHEET NO. 20
CONTRACT NO. 78716				
ILLINOIS FED. AID PROJECT				

Long Section Number

LEGEND

----- LIMITS OF CONSTRUCTION



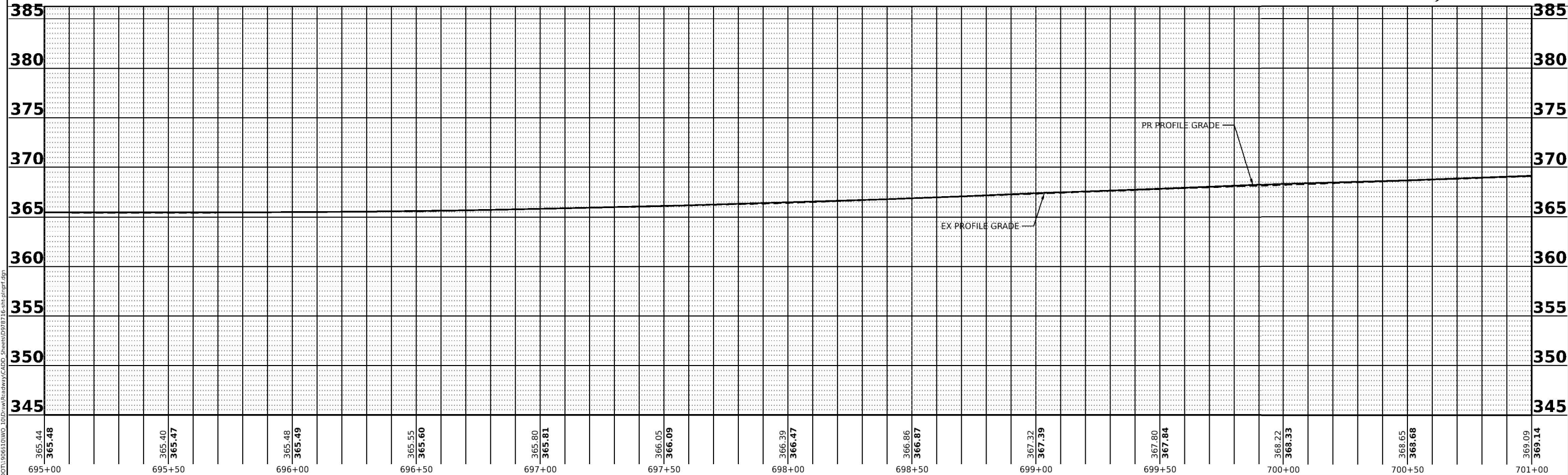
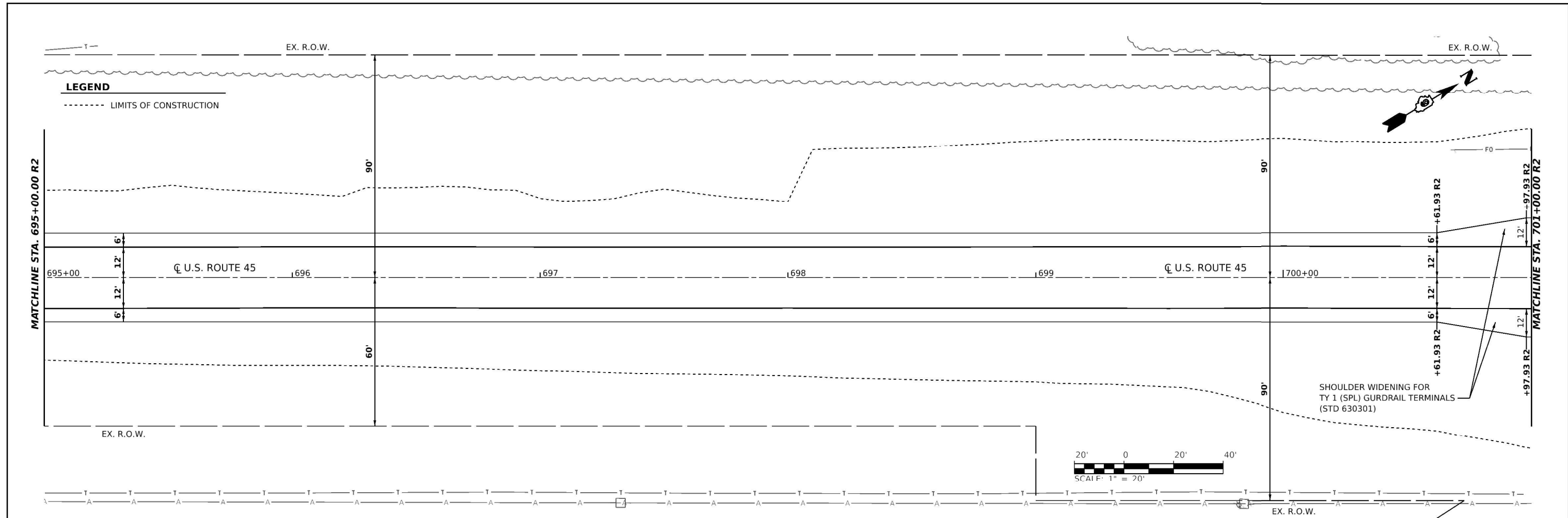
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USER NAME = moverbey	DESIGNED -	REVISED -
	DRAWN -	REVISED -
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PLOT DATE = 11/11/2022	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

F.A.P. 332 (U.S. ROUTE 45)
 PLAN AND PROFILE
 SCALE: 1" = 20' SHEET 1 OF 7 SHEETS STA. TO STA.

F.A.P. RTE. 332	SECTION 29B-3; 29B-4	COUNTY SALINE	TOTAL SHEETS 150	SHEET NO. 21
CONTRACT NO. 78716				
ILLINOIS FED. AID PROJECT				



365.44 365.48	365.40 365.47	365.48 365.49	365.55 365.60	365.80 365.81	366.05 366.09	366.39 366.47	366.86 366.87	367.32 367.39	367.80 367.84	368.22 368.33	368.65 368.68	369.09 369.14
695+00	695+50	696+00	696+50	697+00	697+50	698+00	698+50	699+00	699+50	700+00	700+50	701+00

USER NAME = moverbey	DESIGNED -	REVISED -
	DRAWN -	REVISED -
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PLOT DATE = 11/11/2022	DATE -	REVISED -

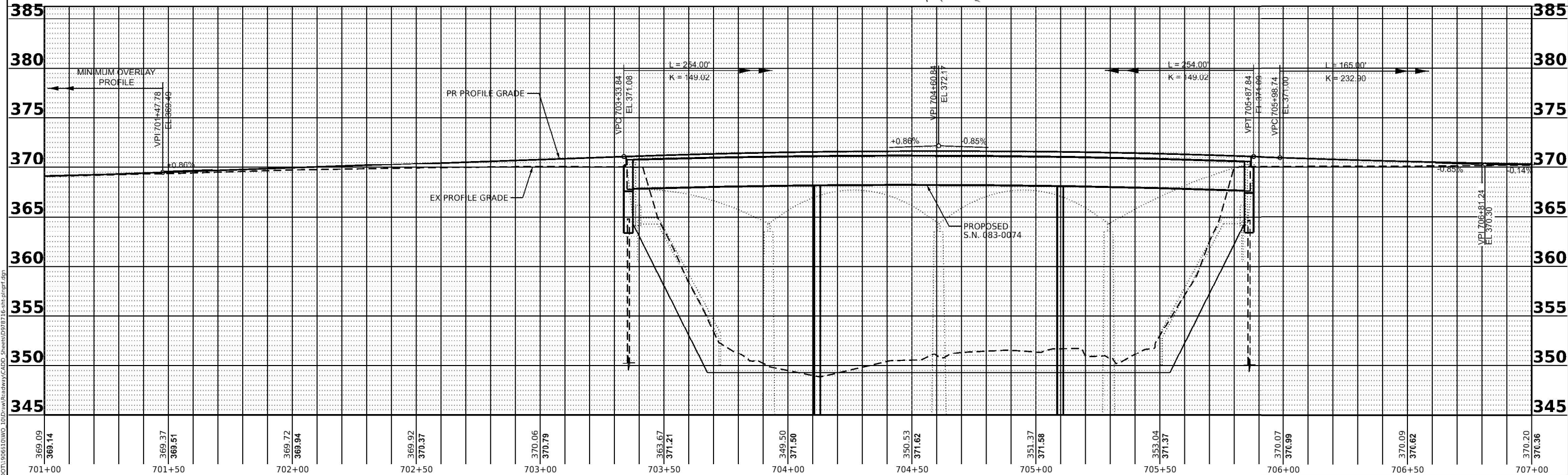
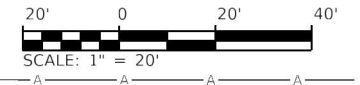
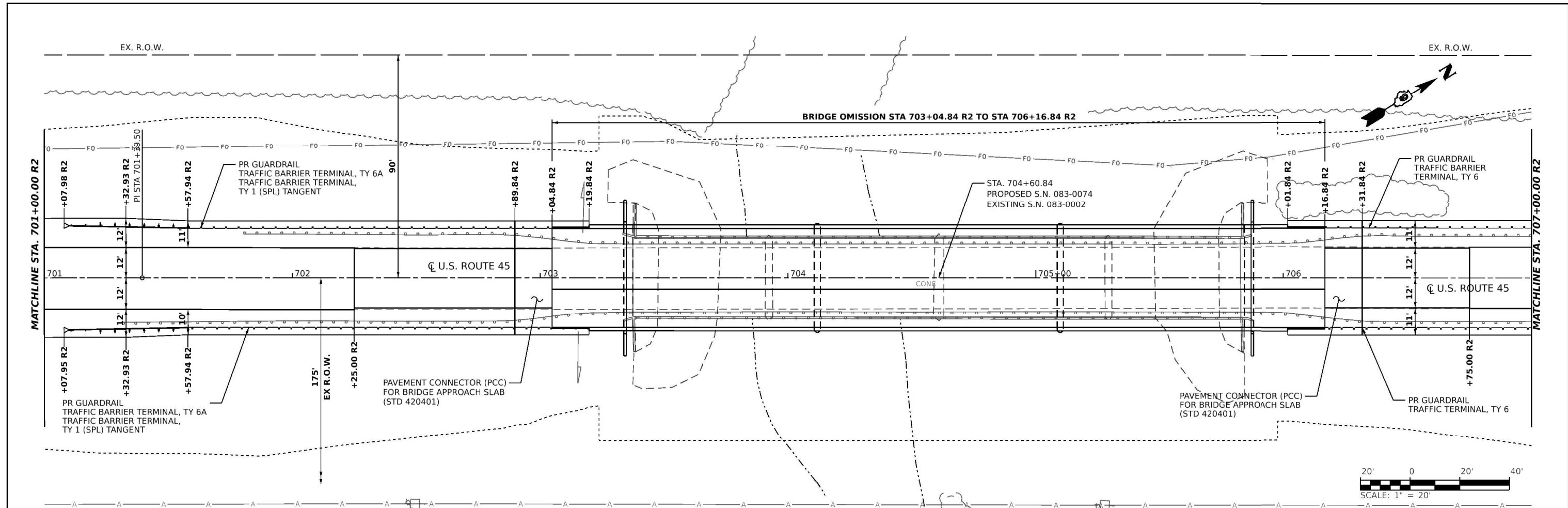
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

F.A.P. 332 (U.S. ROUTE 45)
PLAN AND PROFILE

SCALE: 1" = 20' SHEET 2 OF 7 SHEETS STA. TO STA.

F.A.P. RTE. 332	SECTION 29B-3; 29B-4	COUNTY SALINE	TOTAL SHEETS 150	SHEET NO. 22
CONTRACT NO. 78716				
ILLINOIS FED. AID PROJECT				

NOTE: EX (USE) - USE PLAN 1 (Sheet)
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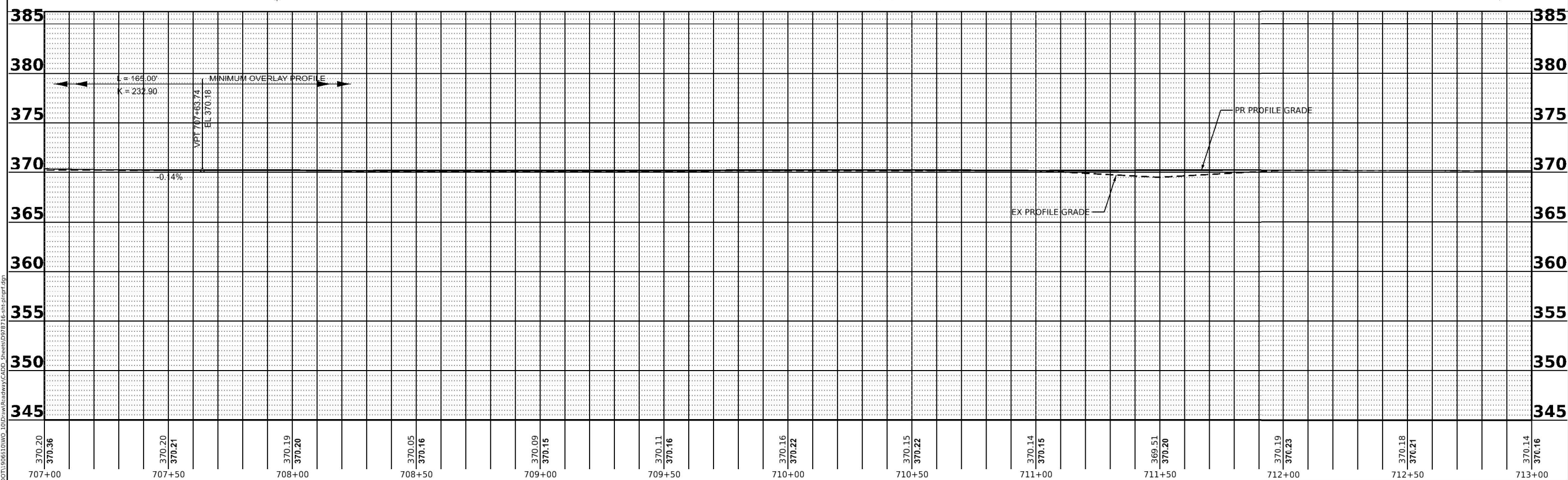
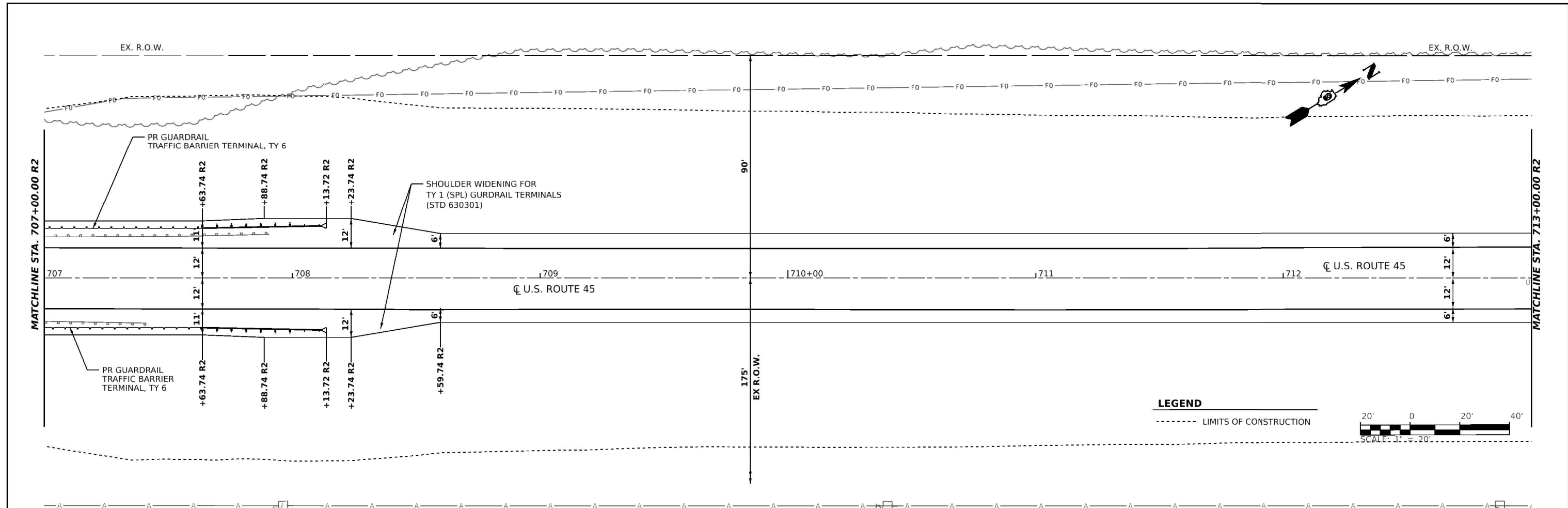
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701+00		701+50		702+00		702+50		703+00		703+50		704+00		704+50		705+00		705+50		706+00		706+50		707+00		

USER NAME = moverbey	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 0.16666633 / in.	CHECKED -	REVISED -
PLOT DATE = 11/11/2022	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.P. 332 (U.S. ROUTE 45)
 PLAN AND PROFILE
 SCALE: 1" = 20' SHEET 3 OF 7 SHEETS STA. TO STA.

F.A.P. RTE. 332	SECTION 29B-3; 29B-4	COUNTY SALINE	TOTAL SHEETS 150	SHEET NO. 23
CONTRACT NO. 78716				
ILLINOIS FED. AID PROJECT				



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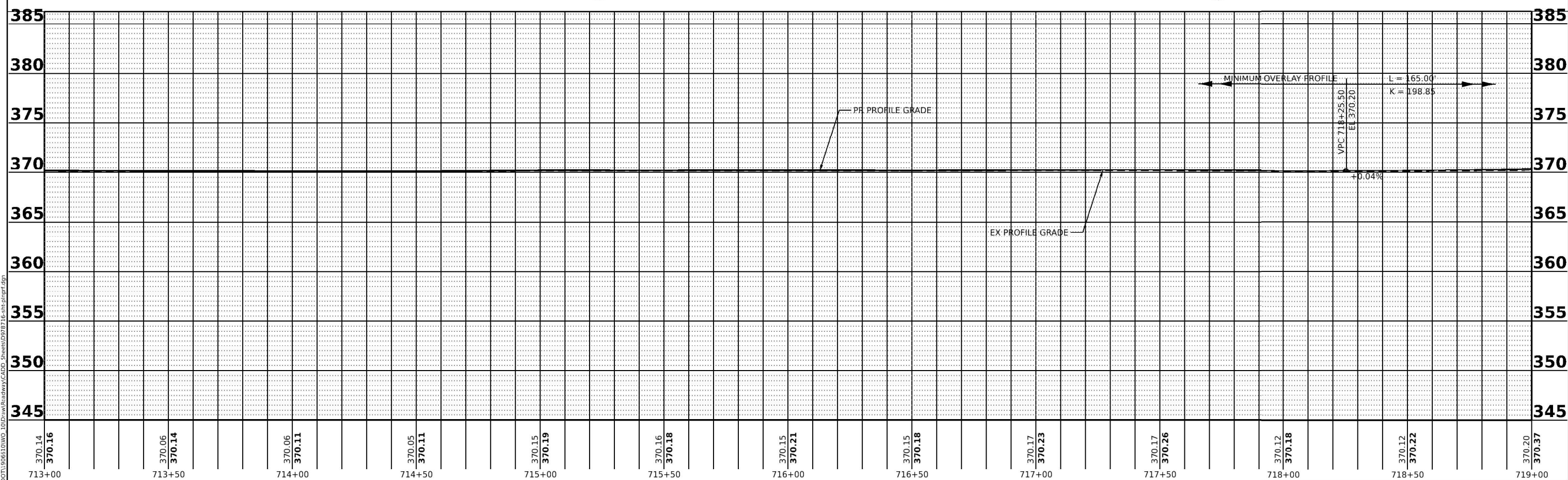
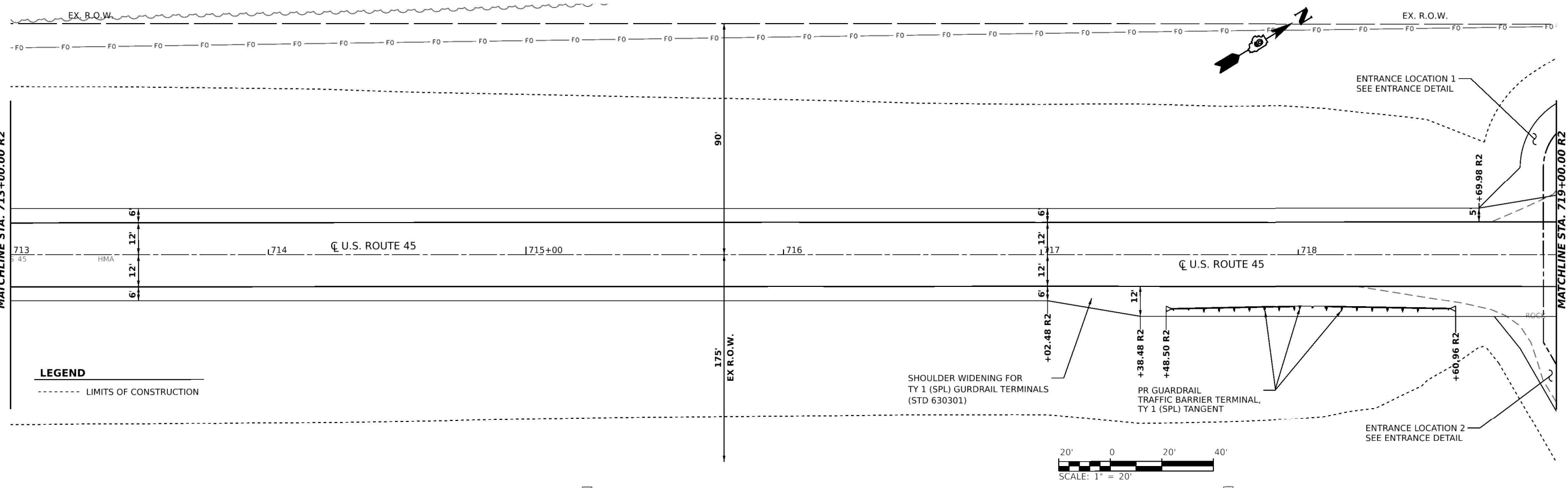
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PLOT DATE = 11/11/2022	CHECKED -	REVISED -
	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.P. 332 (U.S. ROUTE 45)
 PLAN AND PROFILE

SCALE: 1" = 20' SHEET 4 OF 7 SHEETS STA. TO STA.

F.A.P. RTE. 332	SECTION 29B-3; 29B-4	COUNTY SALINE	TOTAL SHEETS 150	SHEET NO. 24
CONTRACT NO. 78716				
ILLINOIS		FED. AID PROJECT		



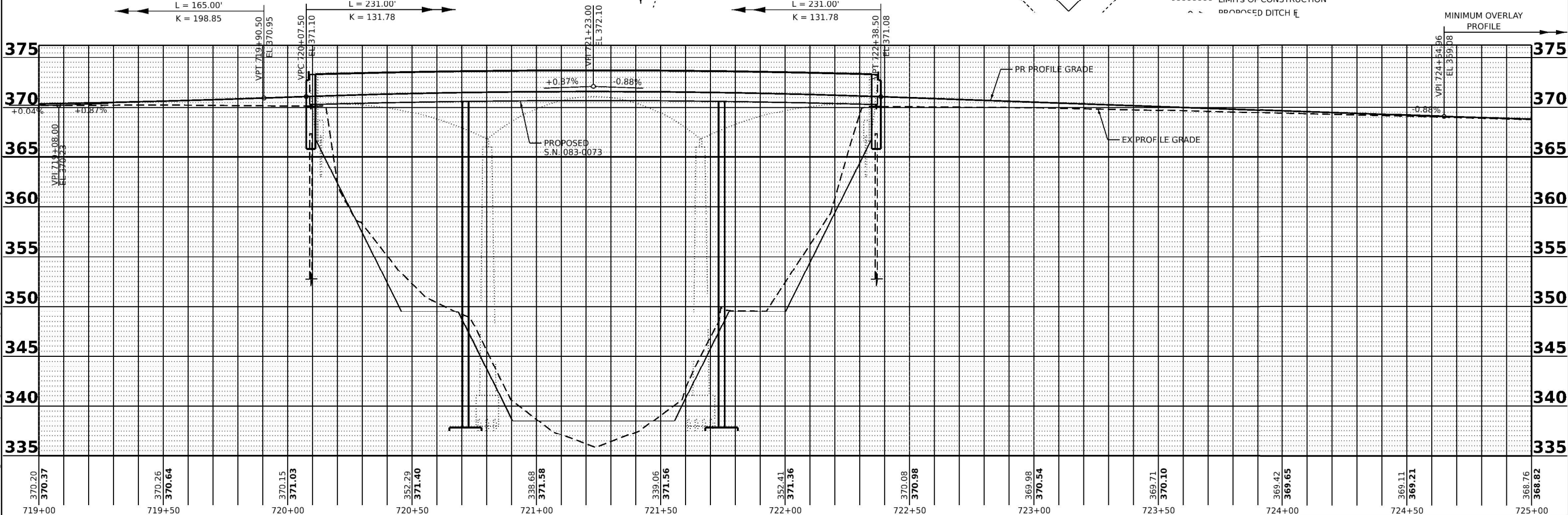
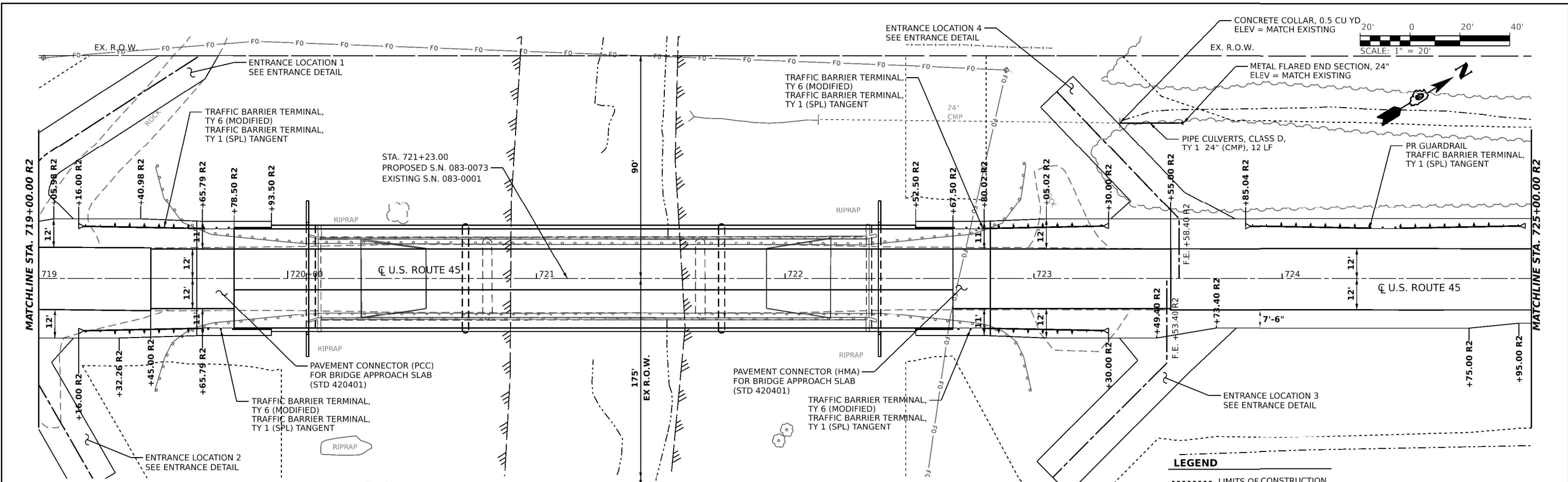
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PLOT DATE = 11/11/2022	CHECKED -	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

F.A.P. 332 (U.S. ROUTE 45)
 PLAN AND PROFILE
 SCALE: 1" = 20' SHEET 5 OF 7 SHEETS STA. TO STA.

F.A.P. RTE. 332	SECTION 29B-3; 29B-4	COUNTY SALINE	TOTAL SHEETS 150	SHEET NO. 25
CONTRACT NO. 78716				
ILLINOIS FED. AID PROJECT				



719+00	719+50	720+00	720+50	721+00	721+50	722+00	722+50	723+00	723+50	724+00	724+50	725+00													
370.20	370.37	370.26	370.64	370.15	371.03	352.29	371.40	338.68	371.58	339.06	371.56	352.41	371.36	370.08	370.98	369.98	370.54	369.71	370.10	369.42	369.65	369.11	369.21	368.76	368.82

USER NAME = moverbey	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 0.16666633 / in.	CHECKED -	REVISED -
PLOT DATE = 11/11/2022	DATE -	REVISED -

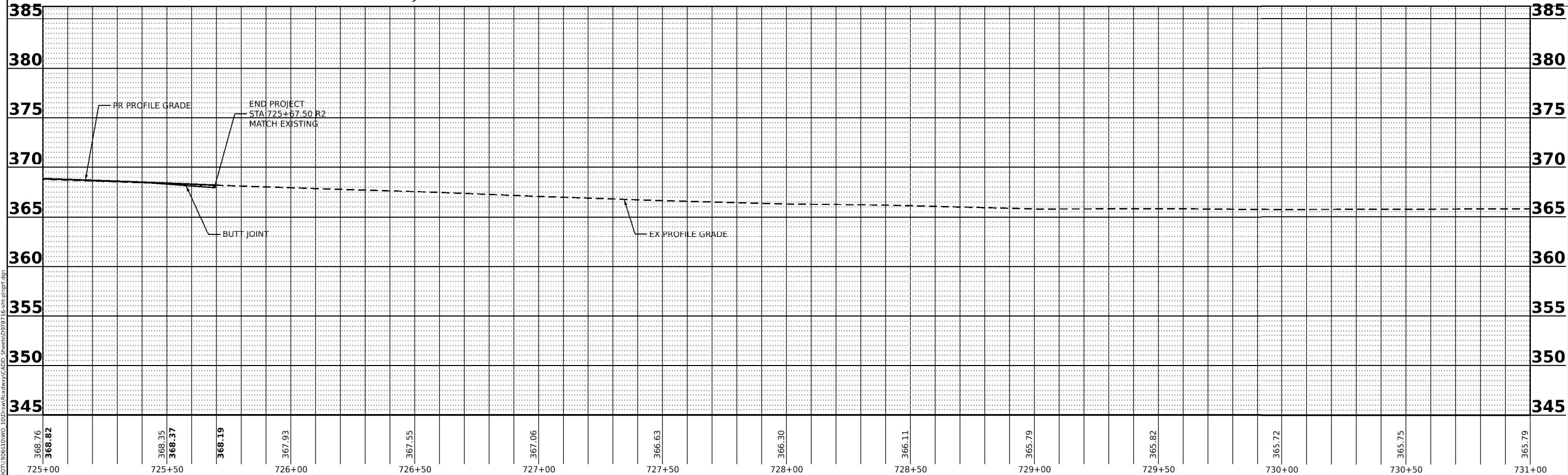
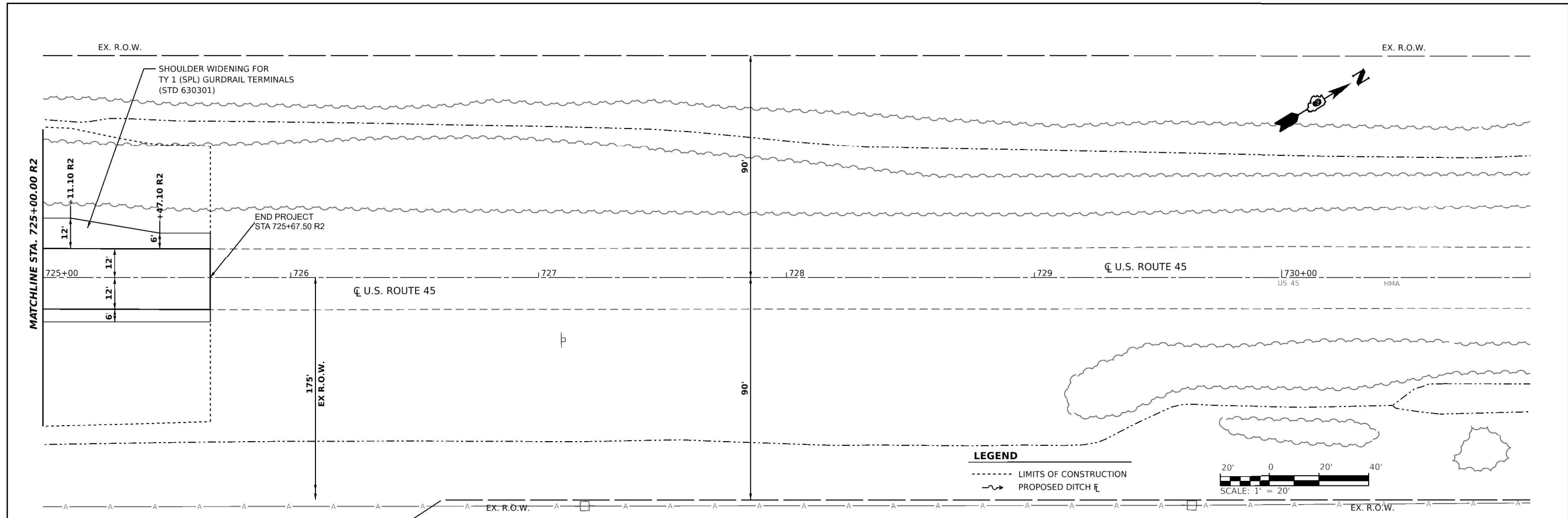
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

F.A.P. 332 (U.S. ROUTE 45)
PLAN AND PROFILE

SCALE: 1" = 20' SHEET 6 OF 7 SHEETS STA. TO STA.

F.A.P. RTE. 332	SECTION 29B-3; 29B-4	COUNTY SALINE	TOTAL SHEETS 150	SHEET NO. 26
CONTRACT NO. 78716			ILLINOIS FED. AID PROJECT	

NOTE: E:\US45_11516_Plan\Sheet1.dwg
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NOTE: EX. R.O.W. = EXISTING RIGHT OF WAY
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USER NAME = moverbey	DESIGNED -	REVISED -
PLOT SCALE = 0.16666633' / in.	DRAWN -	REVISED -
PLOT DATE = 11/11/2022	CHECKED -	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

F.A.P. 332 (U.S. ROUTE 45)
 PLAN AND PROFILE
 SCALE: 1" = 20' SHEET 7 OF 7 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	29B-3; 29B-4	SALINE	150	27
CONTRACT NO. 78716				
ILLINOIS FED. AID PROJECT				

STAGE CONSTRUCTION GENERAL NOTES

- ONE LANE OF TRAFFIC ON US 45 SHALL BE MAINTAINED AT ALL TIMES.
- EMERGENCY ACCESS SHALL BE PROVIDED AT ALL TIMES.

SUGGESTED STAGE 1 CONSTRUCTION

PRE-PHASE

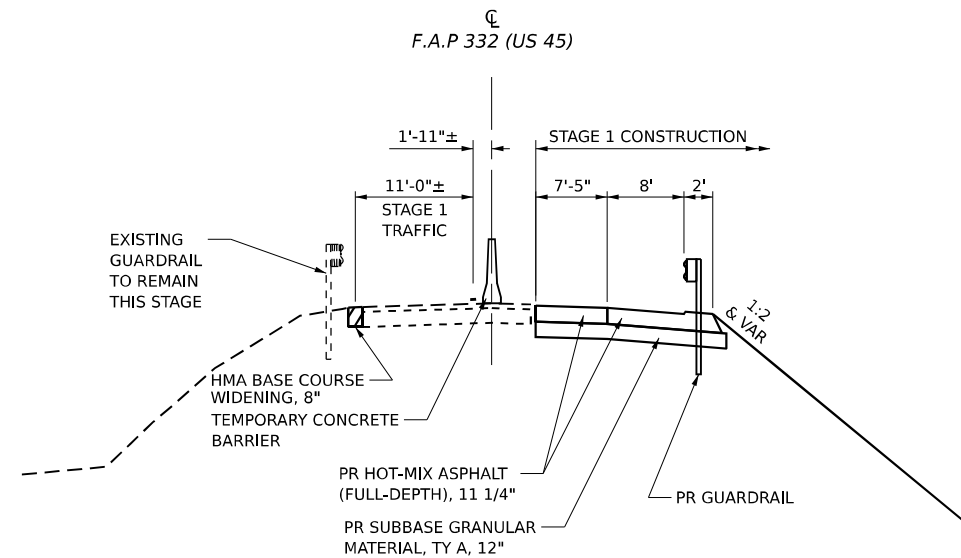
- PLACE HMA BASE COURSE WIDENING, 8" TO BE USED FOR STAGE 1 TRAFFIC

PHASE 1

- UTILIZE TRAFFIC CONTROL AND PROTECTION, STANDARD 701201, 701326 AND 701321.
- PLACE TEMPORARY TRAFFIC CONTROL AS SHOWN ON THE NEXT SHEET.
- INSTALL TEMPORARY TRAFFIC SIGNALS PRIOR TO CLOSING THE RIGHT HALF OF ROADWAY, SEE "TRAFFIC CONTROL NOTES" FOR MORE DETAILS.

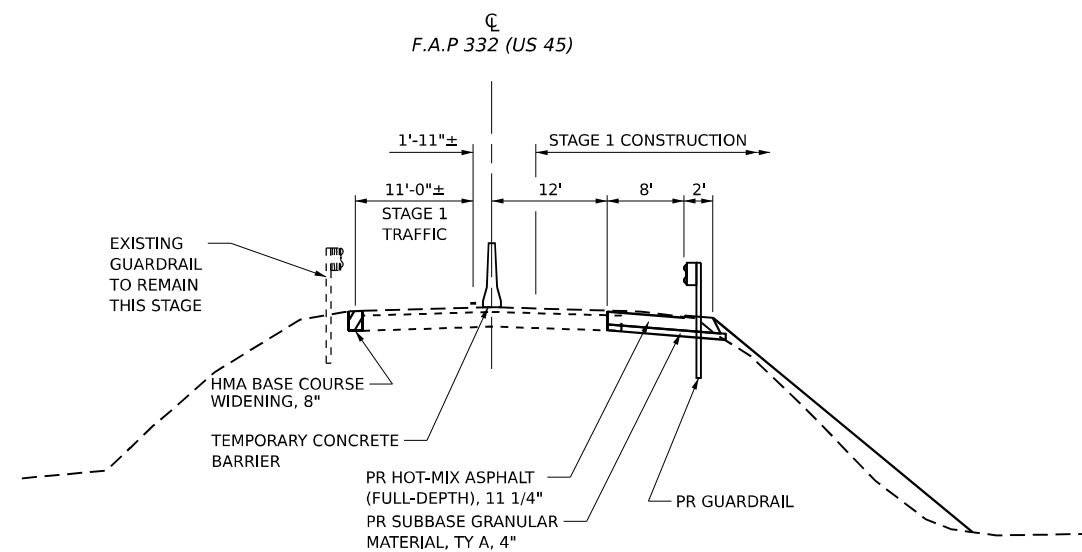
PHASE 2

- UTILIZE TRAFFIC CONTROL AND PROTECTION, STANDARD 701321, DIRECT TRAFFIC TO THE SOUTHBOUND SIDE OF US 45.
- CONSTRUCT TEMPORARY SHEET PILING AT THE NORTH AND SOUTH SIDE OF EACH EXISTING STRUCTURES AND REMOVE THE NORTHBOUND SIDE OF EXISTING STRUCTURES.
- CONSTRUCT THE NORTHBOUND SIDE OF EACH BRIDGE STRUCTURE, EMBANKMENT AT NORTH AND SOUTH SIDES OF EACH PROPOSED STRUCTURE, APPROACH PAVEMENT AND FULL-DEPTH SHOULDERS.
- INSTALL GUARDRAIL ON NORTHBOUND SIDE OF US 45 AND COMPLETE DRAINAGE AND GRADING IMPROVEMENTS.
- UTILIZE TRAFFIC CONTROL AND PROTECTION, STANDARD 701326 FOR SHOULDER WIDENING (RIGHT) TO BE USED FOR STAGE 2 TRAFFIC.



STAGE 1 CONSTRUCTION - SECTION B-B

N.T.S.



STAGE 1 CONSTRUCTION - SECTION A-A

N.T.S.

TRAFFIC CONTROL NOTES

- TWO PHASE SIGNAL OPERATION IS REQUIRED WHEN HWY STD 701321 IS IN EFFECT. THE ENGINEER OF TRAFFIC SHALL APPROVE ALL TIMING PARAMETERS.
- THE CONTRACTOR WILL HAVE THE OPTION TO USE MICROWAVE DETECTION FOR USE WITH THE TEMPORARY TRAFFIC SIGNALS IN ACCORDANCE WITH HWY STD 701321.
- REMOVAL OF THE RUMBLE STRIPS AFTER STAGED CONSTRUCTION SHALL BE COMPLETED TO THE SATISFACTION OF THE ENGINEER. ANY DAMAGE TO THE EXISTING PAVEMENT FROM THE RUMBLE STRIPS SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE. THERE WILL BE NO ADDITIONAL COMPENSATION.
- ALL TEMPORARY PAVEMENT MARKINGS, DRUMS, ETC. SHALL BE PLACED PRIOR TO PLACING TEMPORARY CONCRETE BARRIERS.

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	DRAWN -	REVISED -
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PLOT DATE = 11/11/2022	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.P. 332 (U.S. ROUTE 45)
MAINTENANCE OF TRAFFIC - STAGE 1







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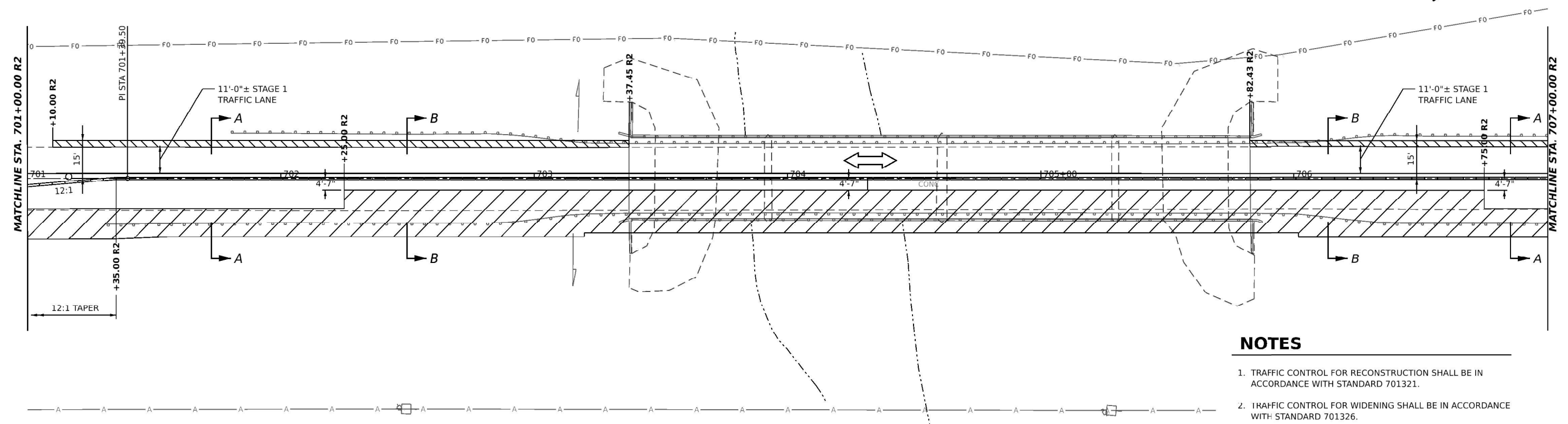
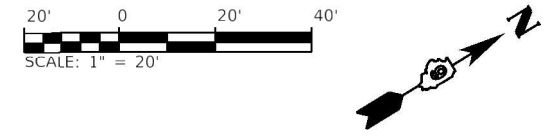
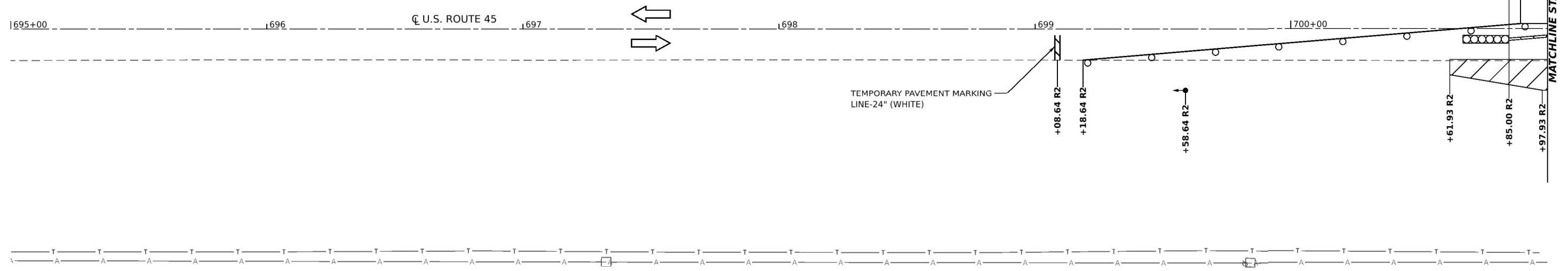
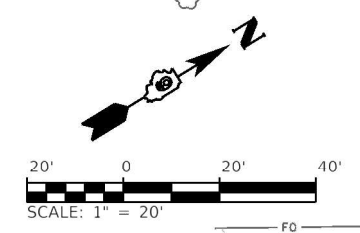
SHEET 1 OF 4 SHEETS STA. TO STA.

F.A.P. RTE. 332	SECTION 29B-3; 29B-4	COUNTY SALINE	TOTAL SHEETS 150	SHEET NO. 28
CONTRACT NO. 78716			ILLINOIS FED. AID PROJECT	

Long Section Number

LEGEND

-  WORK ZONE
-  PRE-STAGE WIDENING
-  EDGE DRUMS
-  IMPACT ATTENUATOR, TEMPORARY (FULLY REDIRECTIVE), TEST LEVEL 3
-  TEMPORARY CONCRETE BARRIER
-  TEMPORARY TRAFFIC SIGNAL



NOTES

1. TRAFFIC CONTROL FOR RECONSTRUCTION SHALL BE IN ACCORDANCE WITH STANDARD 701321.
2. TRAFFIC CONTROL FOR WIDENING SHALL BE IN ACCORDANCE WITH STANDARD 701326.

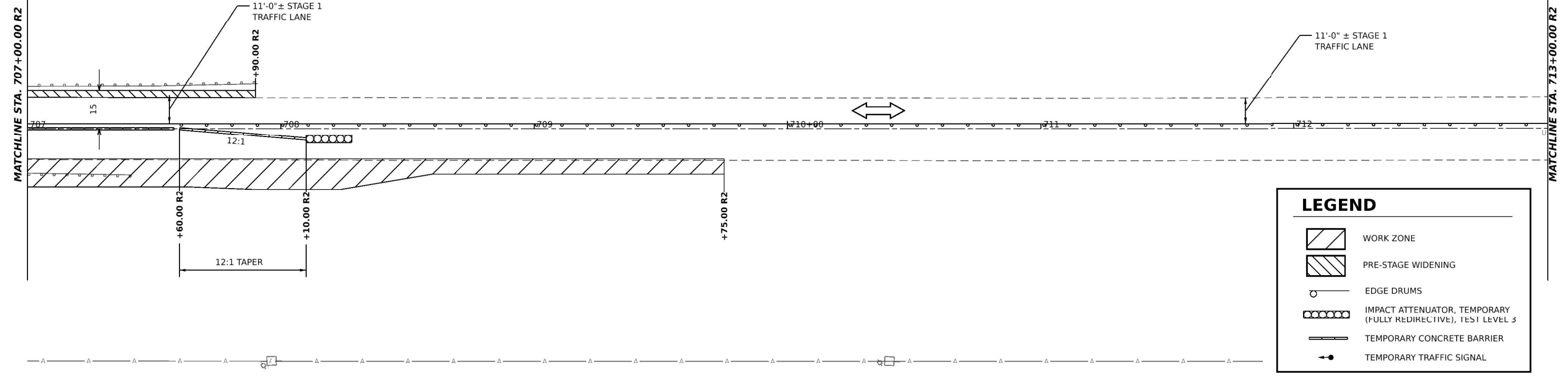
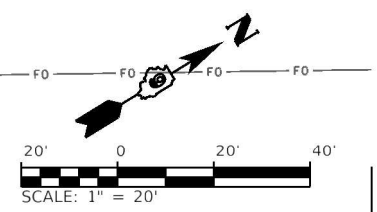
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PLOT DATE = 11/11/2022	DATE -	REVISED -	

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

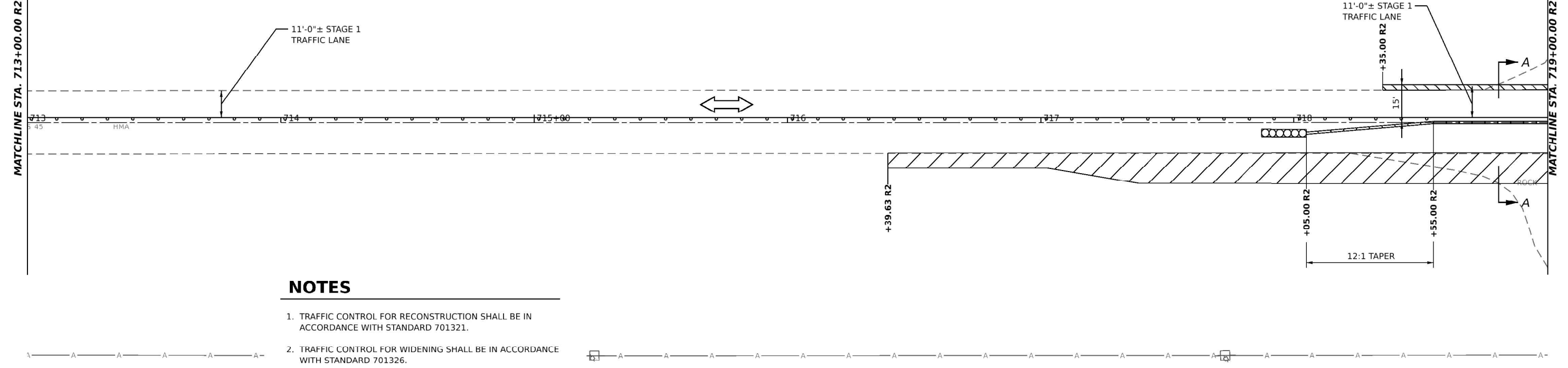
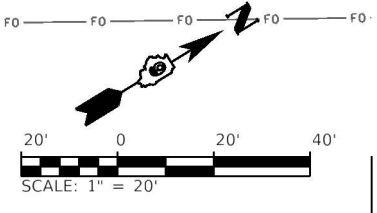
F.A.P. 332 (U.S. ROUTE 45) MAINTENANCE OF TRAFFIC - STAGE 1	
SCALE: 1" = 20'	SHEET 1 OF 3 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	298-3; 298-4	SALINE	150	29
CONTRACT NO. 78716				
ILLINOIS FED. AID PROJECT				



LEGEND

- WORK ZONE
- PRE-STAGE WIDENING
- EDGE DRUMS
- IMPACT ATTENUATOR, TEMPORARY (FULLY REDIRECTIVE), TEST LEVEL 3
- TEMPORARY CONCRETE BARRIER
- TEMPORARY TRAFFIC SIGNAL



- NOTES**
1. TRAFFIC CONTROL FOR RECONSTRUCTION SHALL BE IN ACCORDANCE WITH STANDARD 701321.
 2. TRAFFIC CONTROL FOR WIDENING SHALL BE IN ACCORDANCE WITH STANDARD 701326.

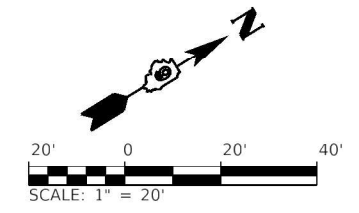
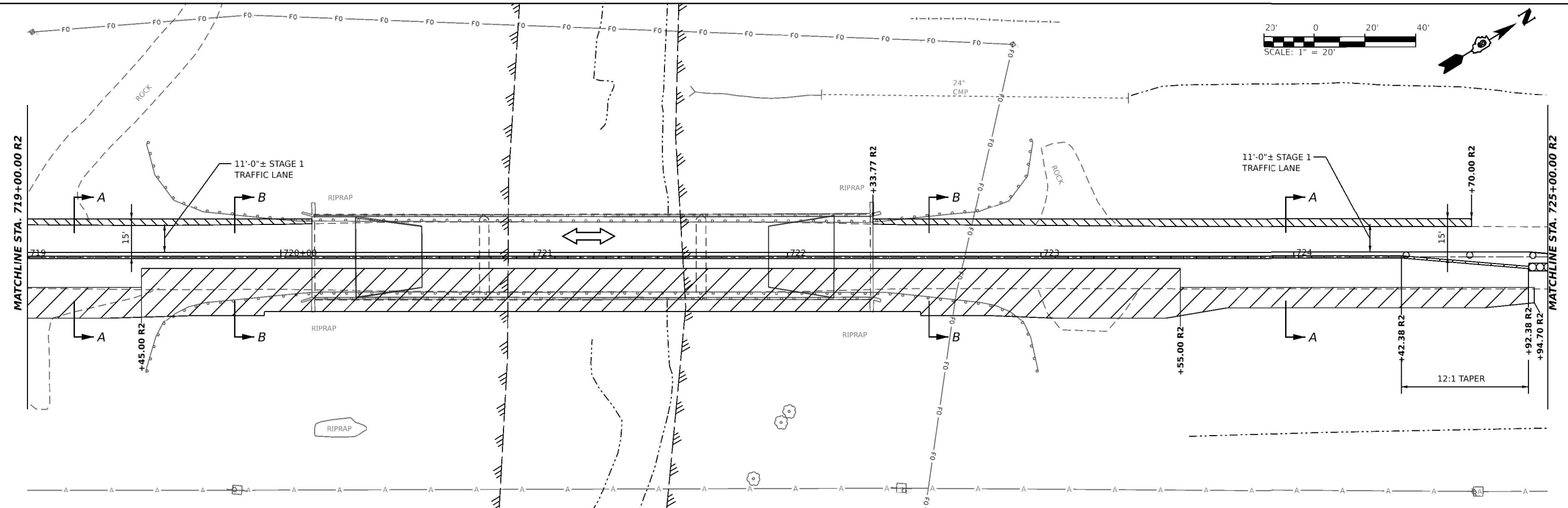
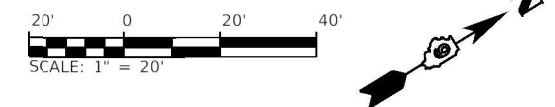
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	DATE -	REVISED -

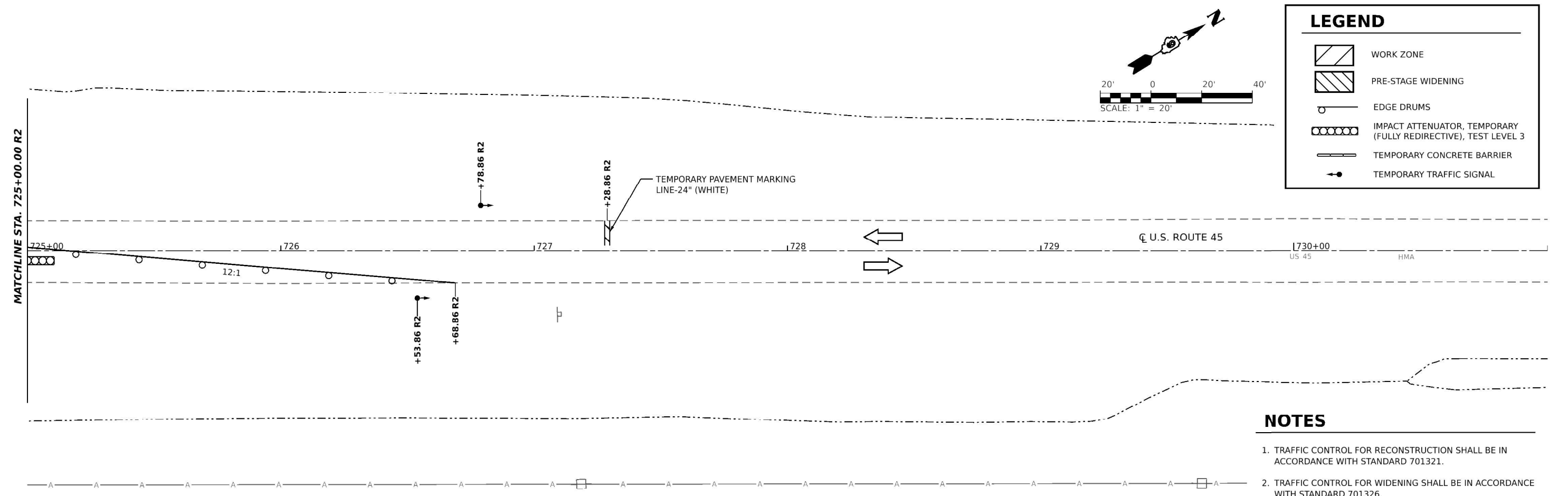
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.P. 332 (U.S. ROUTE 45)
 MAINTENANCE OF TRAFFIC - STAGE 1
 SCALE: 1" = 20' SHEET 2 OF 3 SHEETS STA. TO STA.

F.A.P. RTE. 332	SECTION 29B-3; 29B-4	COUNTY SALINE	TOTAL SHEETS 150	SHEET NO. 30
CONTRACT NO. 78716				
ILLINOIS FED. AID PROJECT				



LEGEND	
	WORK ZONE
	PRE-STAGE WIDENING
	EDGE DRUMS
	IMPACT ATTENUATOR, TEMPORARY (FULLY REDIRECTIVE), TEST LEVEL 3
	TEMPORARY CONCRETE BARRIER
	TEMPORARY TRAFFIC SIGNAL



- NOTES**
1. TRAFFIC CONTROL FOR RECONSTRUCTION SHALL BE IN ACCORDANCE WITH STANDARD 701321.
 2. TRAFFIC CONTROL FOR WIDENING SHALL BE IN ACCORDANCE WITH STANDARD 701326.

NOTE: E:\US45 - NOTS - Sheet1
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PLOT DATE = 11/11/2022	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.P. 332 (U.S. ROUTE 45)
 MAINTENANCE OF TRAFFIC - STAGE 1
 SCALE: 1" = 20' SHEET 3 OF 3 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	29B-3; 29B-4	SALINE	150	31
CONTRACT NO. 78716				
ILLINOIS FED. AID PROJECT				

STAGE CONSTRUCTION GENERAL NOTES

- ONE LANE OF TRAFFIC ON US 45 SHALL BE MAINTAINED AT ALL TIMES.
- EMERGENCY ACCESS SHALL BE PROVIDED AT ALL TIMES.

SUGGESTED STAGE 2 CONSTRUCTION

PHASE 1

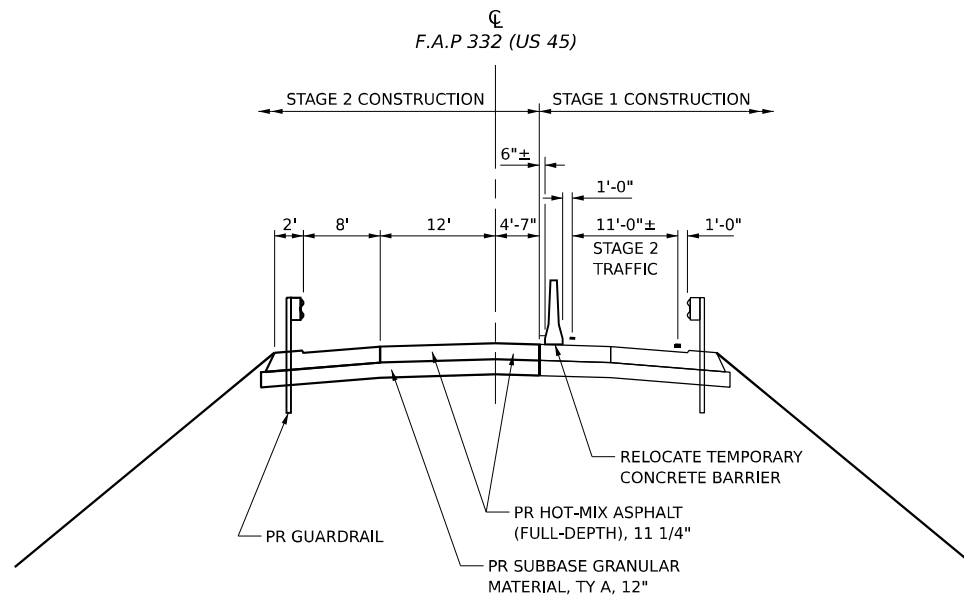
- UTILIZE TRAFFIC CONTROL AND PROTECTION, STANDARD 701201 AND 701321.
- PLACE TEMPORARY TRAFFIC CONTROL AS SHOWN ON THE NEXT SHEET.

PHASE 2

- UTILIZE TRAFFIC CONTROL AND PROTECTION, STANDARD 701321, DIRECT TRAFFIC TO THE NORTHBOUND SIDE OF US 45.
- CONSTRUCT TEMPORARY SHEET PILING AT THE NORTH AND SOUTH SIDE OF EACH EXISTING STRUCTURES AND REMOVE THE SOUTHBOUND SIDE OF EXISTING STRUCTURES.
- CONSTRUCT THE SOUTHBOUND SIDE OF EACH BRIDGE STRUCTURE, EMBANKMENT AT NORTH AND SOUTH SIDES OF EACH PROPOSED STRUCTURE, APPROACH PAVEMENT AND FULL-DEPTH SHOULDERS.
- INSTALL GUARDRAIL ON SOUTHBOUND SIDE OF US 45 AND COMPLETE GRADING IMPROVEMENTS.

PHASE 3

- UTILIZE TRAFFIC CONTROL AND PROTECTION, STANDARD 701306, INSTALL PERMANENT PAVEMENT MARKING, REMOVE CONCRETE BARRIERS AND TRAFFIC CONTROL FEATURES FOR HIGHWAY STANDARD 701321.



STAGE 2 CONSTRUCTION - SECTION A-A

N.T.S.

TRAFFIC CONTROL NOTES

- TWO PHASE SIGNAL OPERATION IS REQUIRED WHEN HWY STD 701321 IS IN EFFECT. THE ENGINEER OF TRAFFIC SHALL APPROVE ALL TIMING PARAMETERS.
- THE CONTRACTOR WILL HAVE THE OPTION TO USE MICROWAVE DETECTION FOR USE WITH THE TEMPORARY TRAFFIC SIGNALS IN ACCORDANCE WITH HWY STD 701321.
- REMOVAL OF THE RUMBLE STRIPS AFTER STAGED CONSTRUCTION SHALL BE COMPLETED TO THE SATISFACTION OF THE ENGINEER. ANY DAMAGE TO THE EXISTING PAVEMENT FROM THE RUMBLE STRIPS SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE. THERE WILL BE NO ADDITIONAL COMPENSATION.
- ALL TEMPORARY PAVEMENT MARKINGS, DRUMS, ETC. SHALL BE PLACED PRIOR TO PLACING TEMPORARY CONCRETE BARRIERS.

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PLOT DATE = 11/11/2022	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION






F.A.P. 332 (U.S. ROUTE 45)
MAINTENANCE OF TRAFFIC - STAGE 2

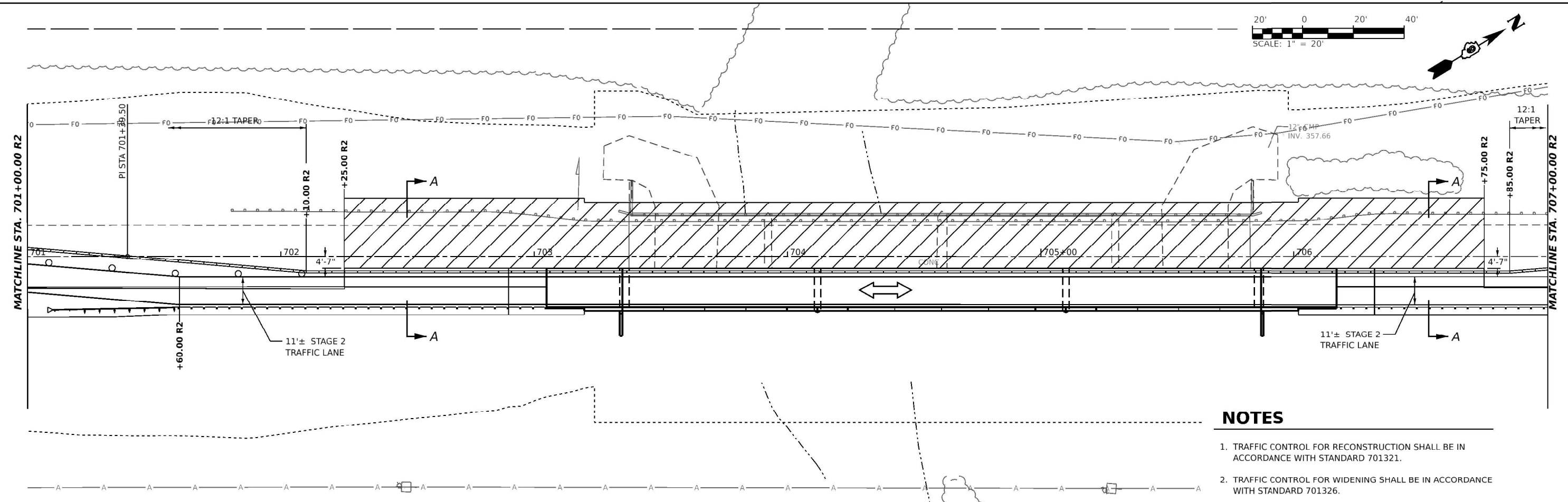
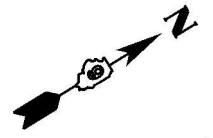
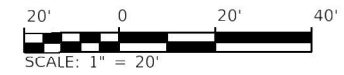
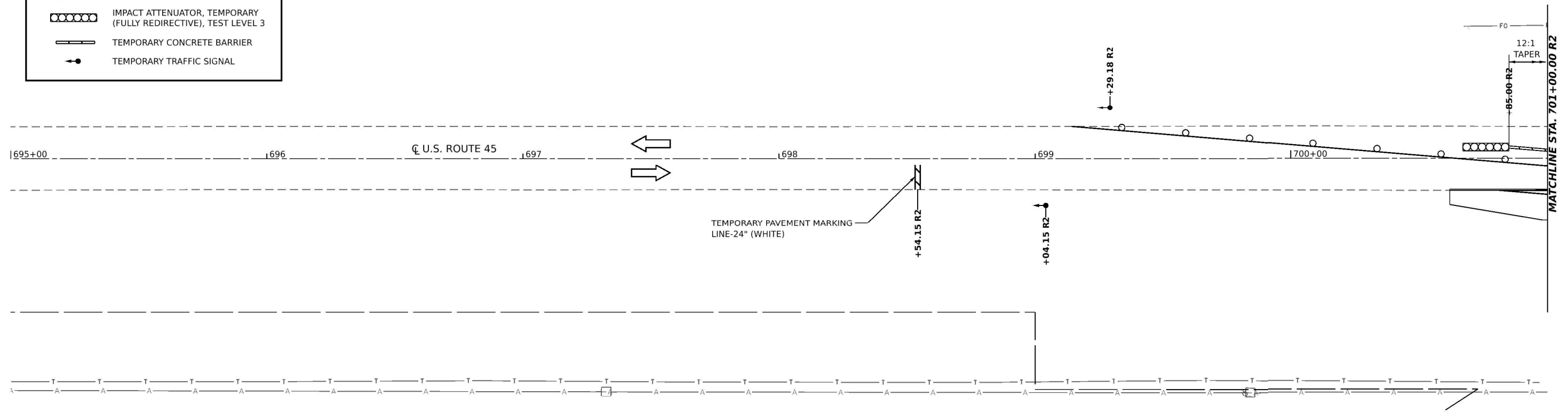
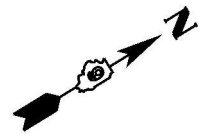
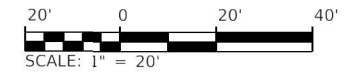
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	29B-3; 29B-4	SALINE	150	32
CONTRACT NO. 78716				
ILLINOIS FED. AID PROJECT				

Long Section Number

LEGEND

-  WORK ZONE
-  EDGE DRUMS
-  IMPACT ATTENUATOR, TEMPORARY (FULLY REDIRECTIVE), TEST LEVEL 3
-  TEMPORARY CONCRETE BARRIER
-  TEMPORARY TRAFFIC SIGNAL



- NOTES**
1. TRAFFIC CONTROL FOR RECONSTRUCTION SHALL BE IN ACCORDANCE WITH STANDARD 701321.
 2. TRAFFIC CONTROL FOR WIDENING SHALL BE IN ACCORDANCE WITH STANDARD 701326.

NOTE: - MOT Stage 2 - MOT Stage 2 (Sheet)
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



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	DATE -	REVISED -

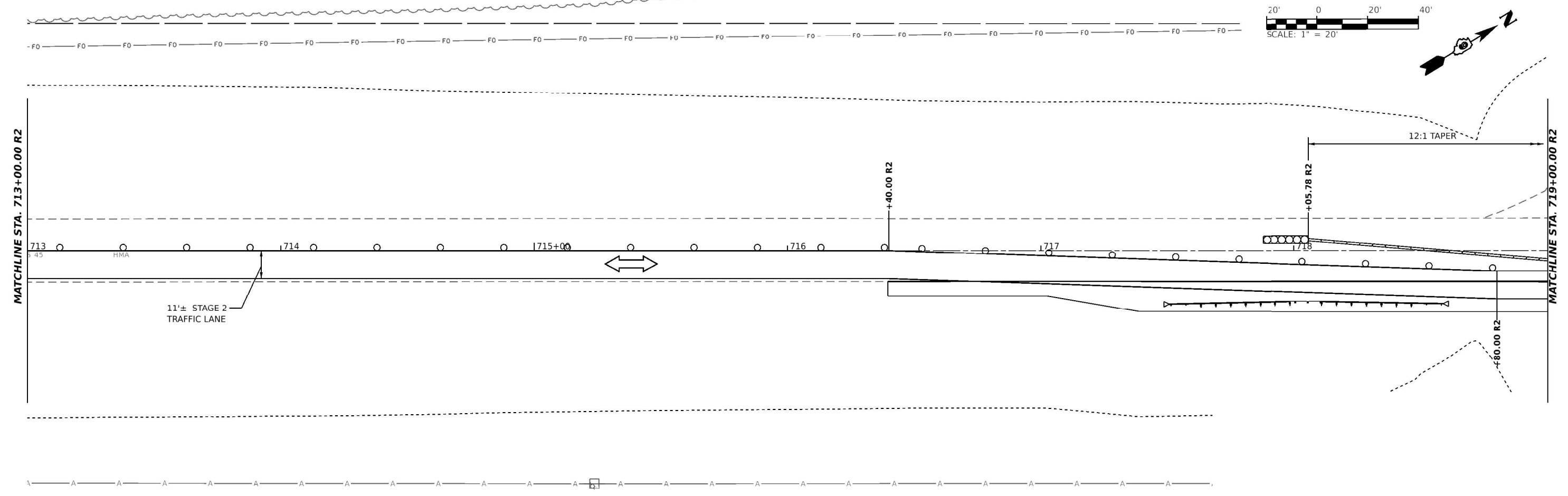
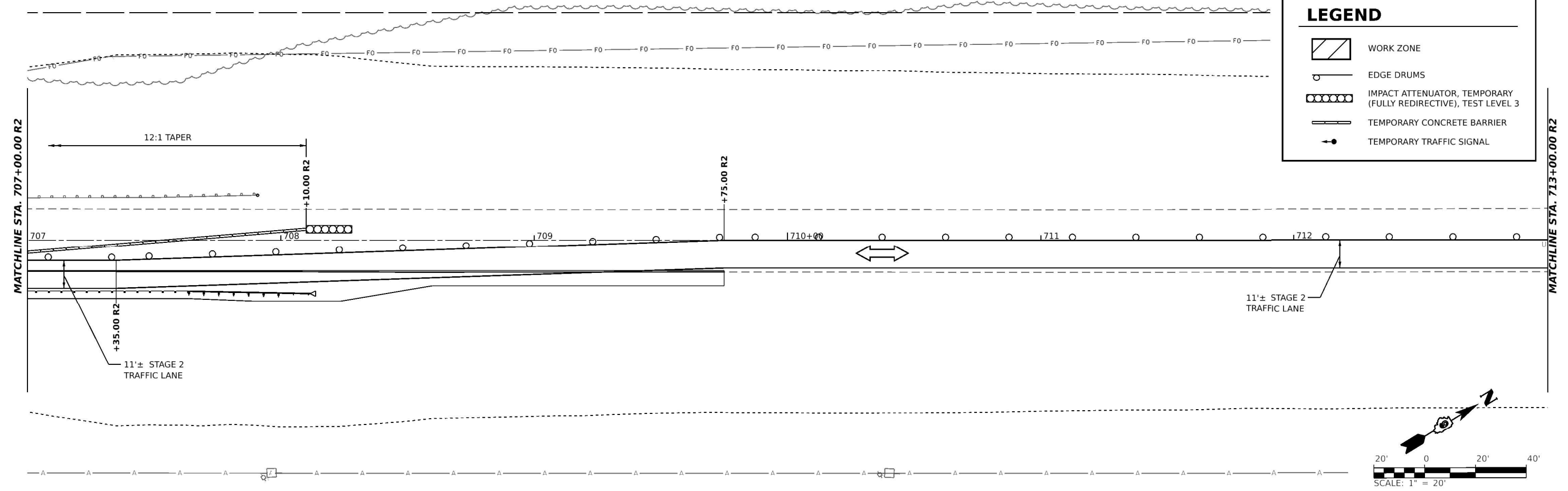
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

F.A.P. 332 (U.S. ROUTE 45)
 MAINTENANCE OF TRAFFIC - STAGE 2
 SCALE: 1" = 20" SHEET 2 OF 4 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	29B-3; 29B-4	SALINE	150	33
CONTRACT NO. 78716				
ILLINOIS FED. AID PROJECT				

LEGEND

-  WORK ZONE
-  EDGE DRUMS
-  IMPACT ATTENUATOR, TEMPORARY (FULLY REDIRECTIVE), TEST LEVEL 3
-  TEMPORARY CONCRETE BARRIER
-  TEMPORARY TRAFFIC SIGNAL



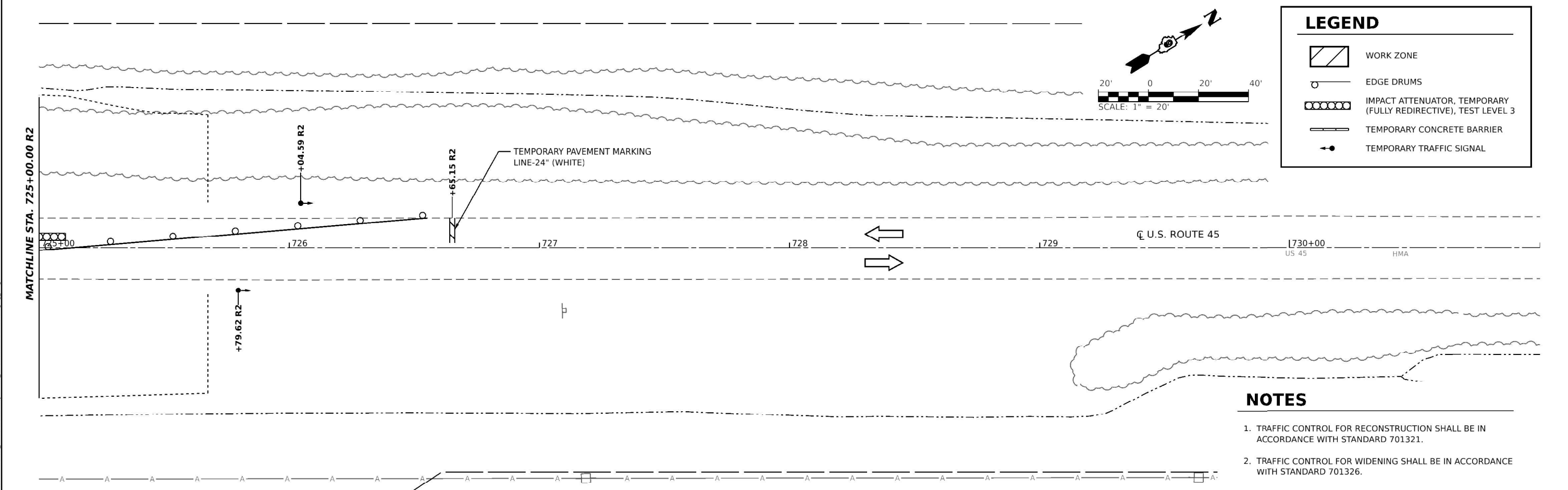
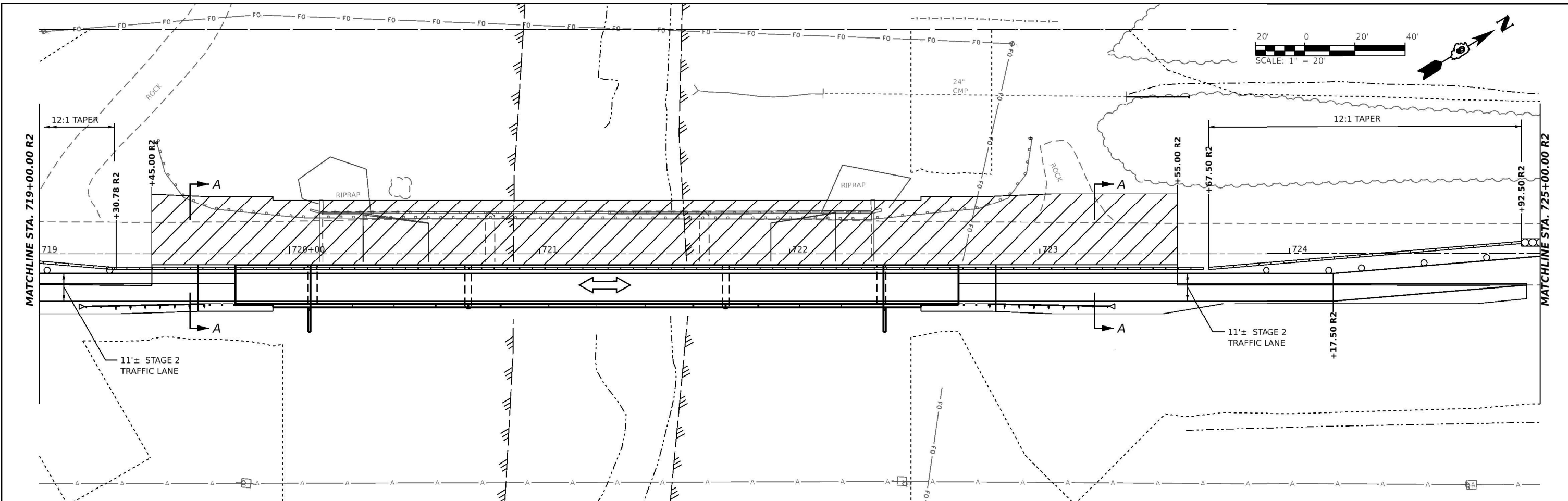
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PLOT DATE = 11/11/2022	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

F.A.P. 332 (U.S. ROUTE 45)
 MAINTENANCE OF TRAFFIC - STAGE 2
 SCALE: 1" = 20' SHEET 3 OF 4 SHEETS STA. TO STA.

F.A.P. RTE. 332	SECTION 29B-3; 29B-4	COUNTY SALINE	TOTAL SHEETS 150	SHEET NO. 34
CONTRACT NO. 78716			ILLINOIS FED. AID PROJECT	



LEGEND

- WORK ZONE
- EDGE DRUMS
- IMPACT ATTENUATOR, TEMPORARY (FULLY REDIRECTIVE), TEST LEVEL 3
- TEMPORARY CONCRETE BARRIER
- TEMPORARY TRAFFIC SIGNAL

- NOTES**
1. TRAFFIC CONTROL FOR RECONSTRUCTION SHALL BE IN ACCORDANCE WITH STANDARD 701321.
 2. TRAFFIC CONTROL FOR WIDENING SHALL BE IN ACCORDANCE WITH STANDARD 701326.

NOTE: - MOT Stage 2 - MOT Stage 6 (Sheet)
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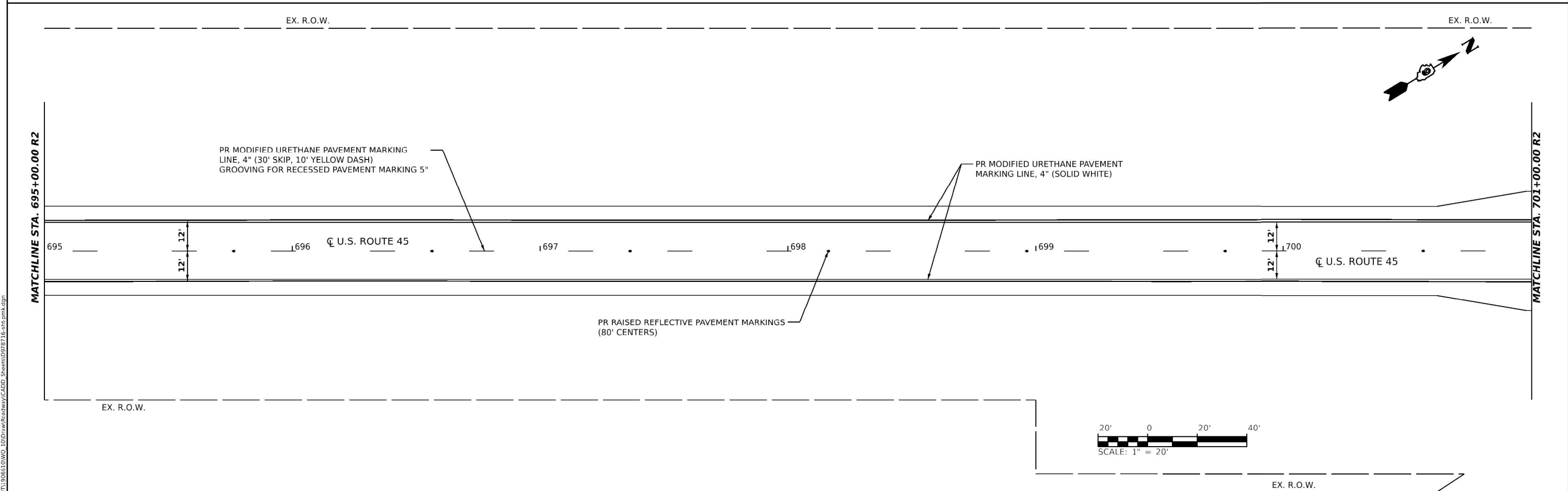
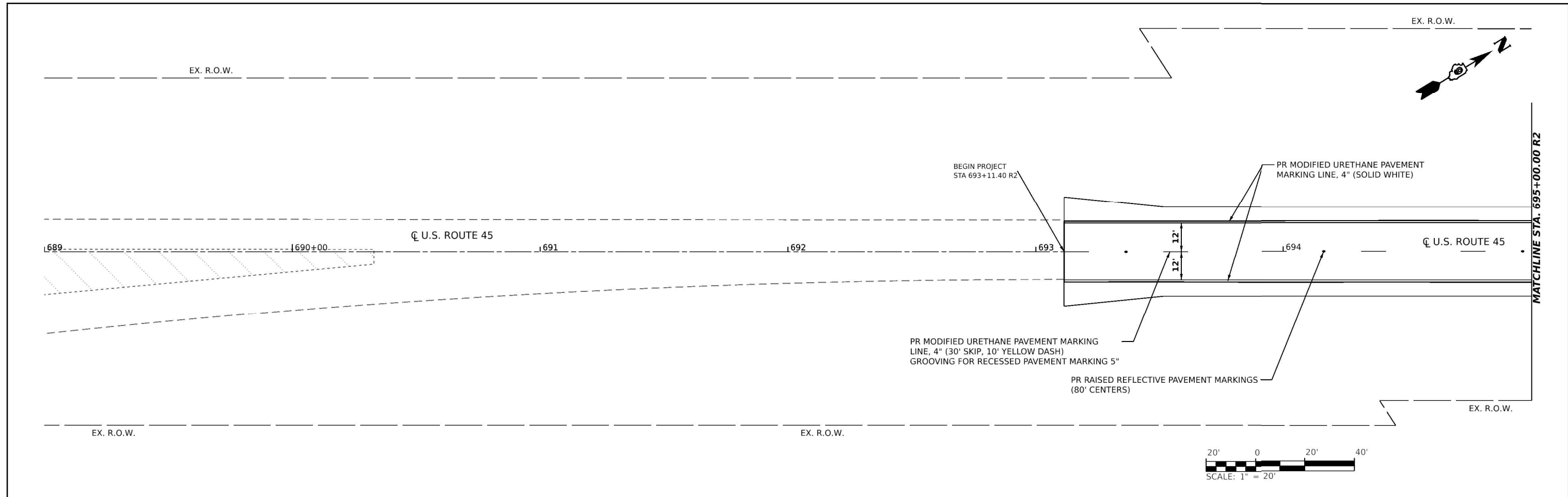
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PLOT DATE = 11/11/2022	CHECKED -	REVISED -
	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.P. 332 (U.S. ROUTE 45)
 MAINTENANCE OF TRAFFIC - STAGE 2
 SCALE: 1" = 20' SHEET 4 OF 4 SHEETS STA. TO STA.

F.A.P. RTE. 332	SECTION 29B-3; 29B-4	COUNTY SALINE	TOTAL SHEETS 150	SHEET NO. 35
CONTRACT NO. 78716				
ILLINOIS		FED. AID PROJECT		

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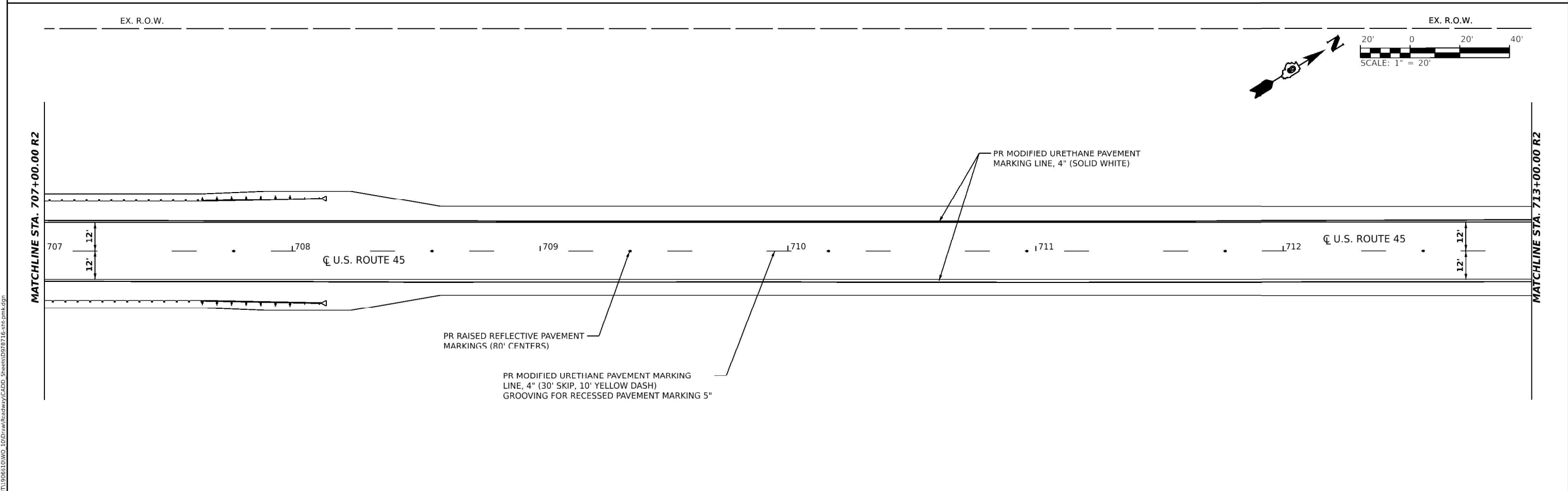
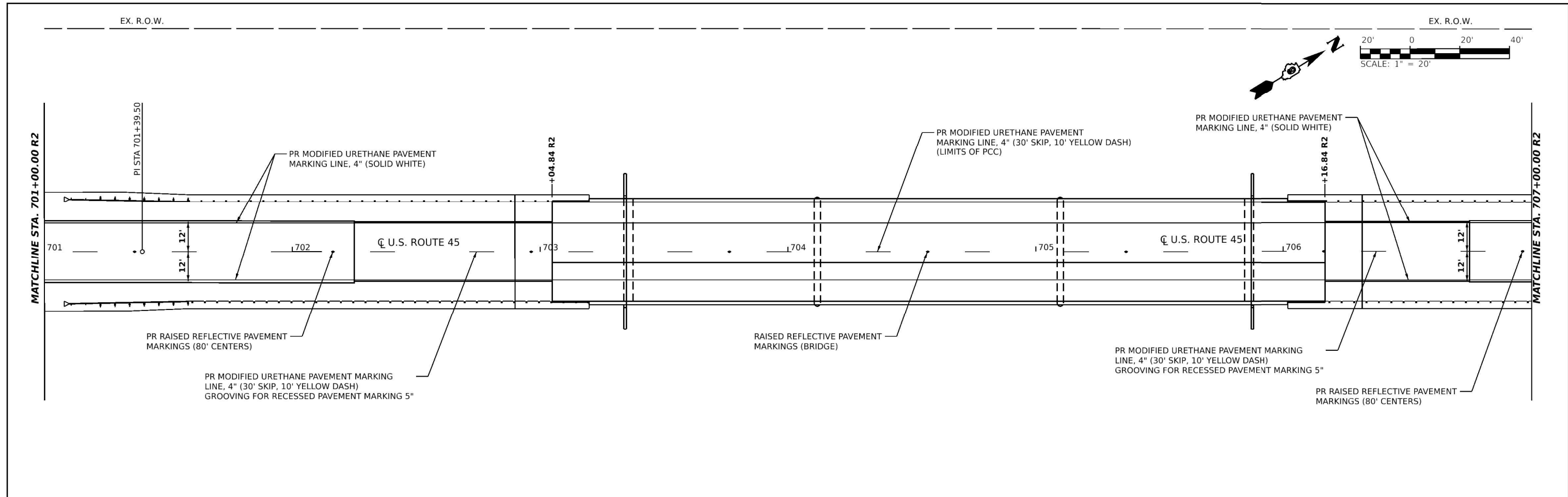


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	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.P. 332 (U.S. ROUTE 45)
 PAVEMENT MARKING PLAN
 SCALE: 1" = 20' SHEET 1 OF 4 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	298-3; 298-4	SALINE	150	36
CONTRACT NO. 78716				
ILLINOIS FED. AID PROJECT				



NOTE: E:\US45_PMK-2\Sheet1
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PLOT DATE = 11/11/2022	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

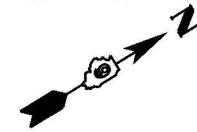
F.A.P. 332 (U.S. ROUTE 45)
 PAVEMENT MARKING PLAN

SCALE: 1" = 20' SHEET 2 OF 4 SHEETS STA. TO STA.

F.A.P. RTE. 332	SECTION 29B-3; 29B-4	COUNTY SALINE	TOTAL SHEETS 150	SHEET NO. 37
CONTRACT NO. 78716				
ILLINOIS FED. AID PROJECT				

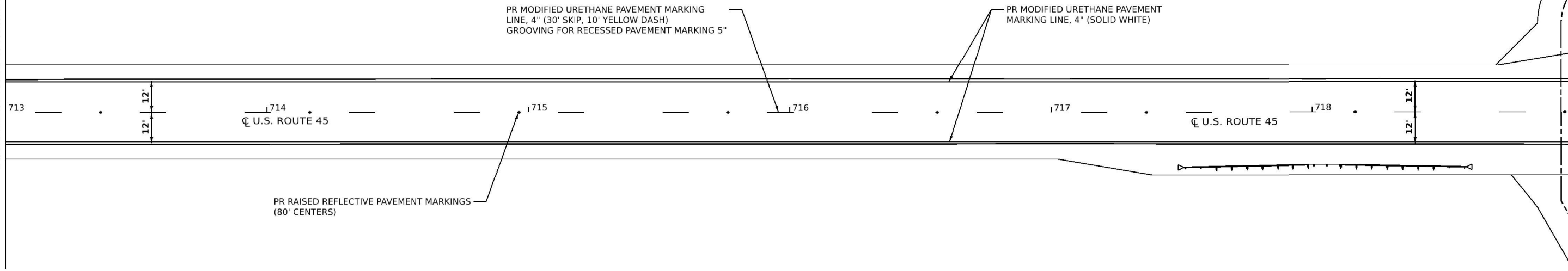
EX. R.O.W.

EX. R.O.W.



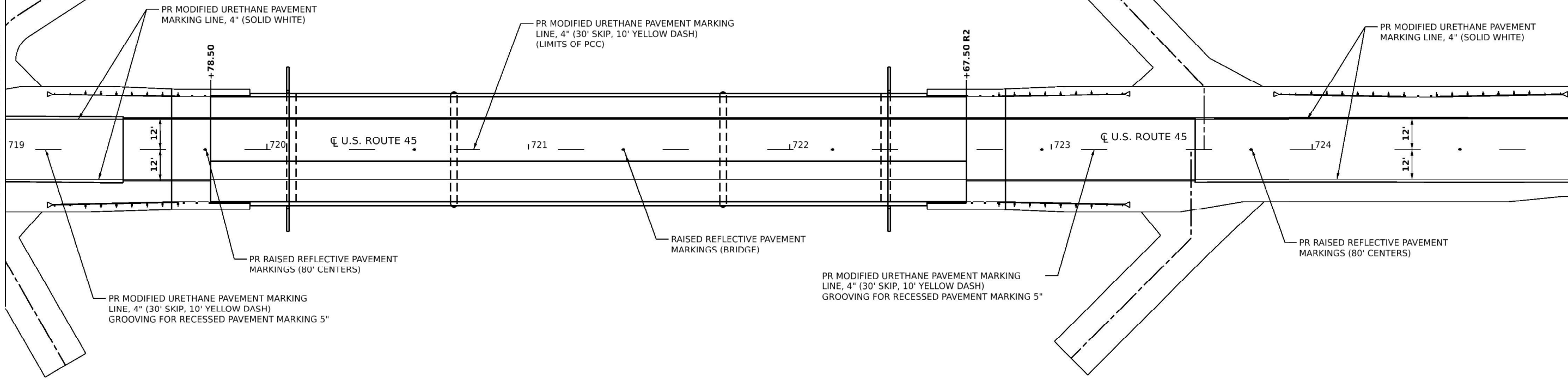
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MATCHLINE STA. 719+00.00 R2



MATCHLINE STA. 719+00.00 R2

MATCHLINE STA. 725+00.00 R2



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PLOT DATE = 11/11/2022	CHECKED -	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

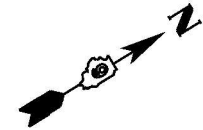
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PAVEMENT MARKING PLAN

SCALE: 1" = 20' SHEET 3 OF 4 SHEETS STA. TO STA.

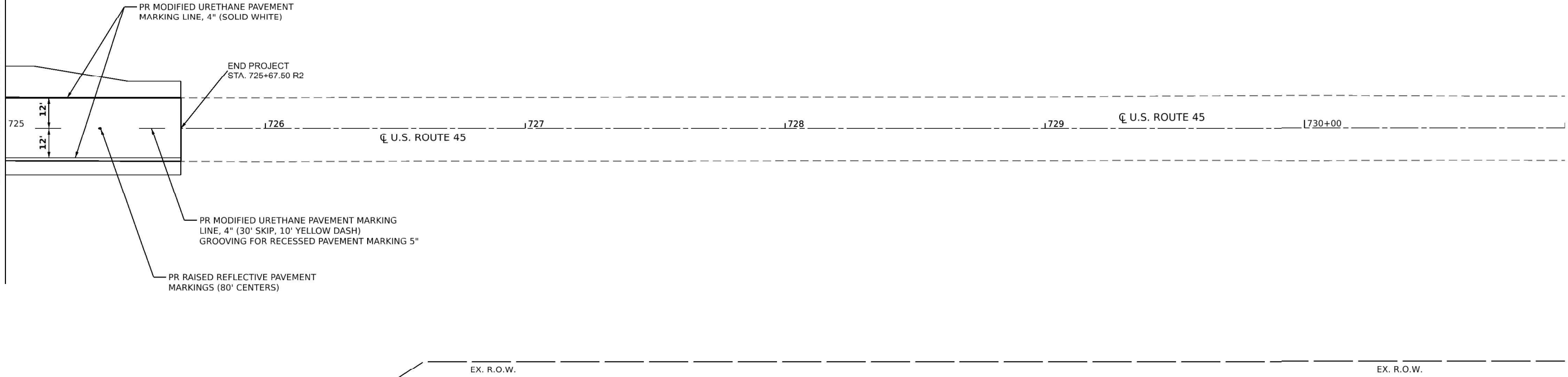
F.A.P. RTE. 332	SECTION 29B-3; 29B-4	COUNTY SALINE	TOTAL SHEETS 150	SHEET NO. 38
CONTRACT NO. 78716				
ILLINOIS FED. AID PROJECT				

EX. R.O.W.

EX. R.O.W.



MATCHLINE STA. 725+00.00 R2



EX. R.O.W.

EX. R.O.W.

NOTE: E:\US45 - PMK 6 (Sheet)
FILE NAME: L:\DOT\1906610\WD_100\DrawRoadway\CADD_Sheets\0978716-sh1-pmk.dgn

USER NAME = moverbey	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 0.16666633' / in.	CHECKED -	REVISED -
PLOT DATE = 11/11/2022	DATE -	REVISED -







**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

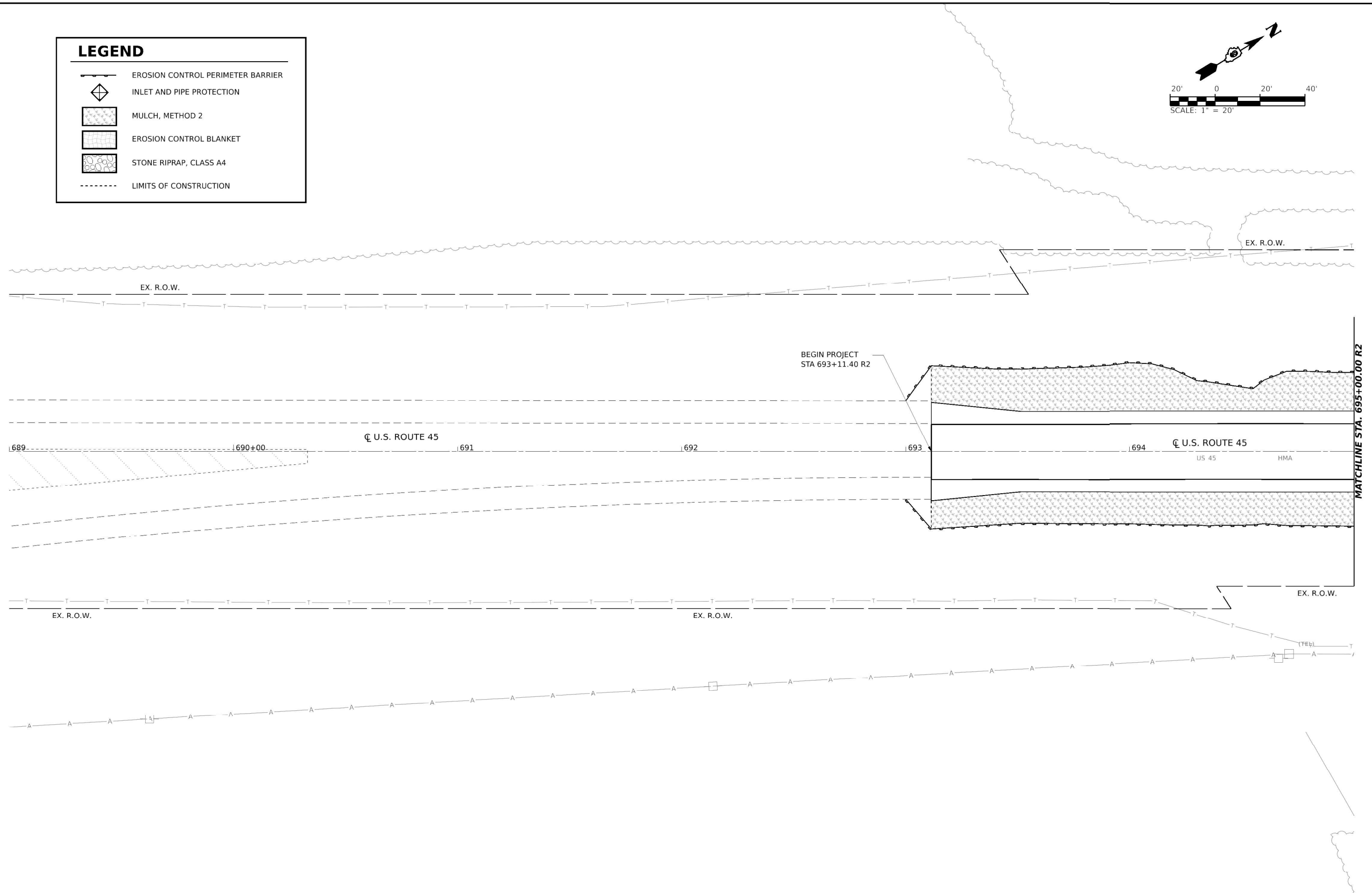
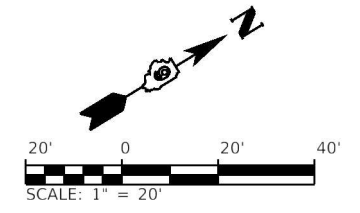
**F.A.P. 332 (U.S. ROUTE 45)
PAVEMENT MARKING PLAN**

SCALE: 1" = 20' SHEET 4 OF 4 SHEETS STA. TO STA.

F.A.P. RTE. 332	SECTION 29B-3; 29B-4	COUNTY SALINE	TOTAL SHEETS 150	SHEET NO. 39
CONTRACT NO. 78716				
ILLINOIS FED. AID PROJECT				

LEGEND

-  EROSION CONTROL PERIMETER BARRIER
-  INLET AND PIPE PROTECTION
-  MULCH, METHOD 2
-  EROSION CONTROL BLANKET
-  STONE RIPRAP, CLASS A4
-  LIMITS OF CONSTRUCTION



NOTE: E:\US45 - EROSION CONTROL PLAN.dwg
 FILE NAME: L:\DOT\112022\0400\100\Drawings\CADD_Sheets\0978716-shr-eros.dwg

USER NAME = moverbey	DESIGNED -	REVISED -
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PLOT DATE = 11/11/2022	CHECKED -	REVISED -
	DATE -	REVISED -







STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

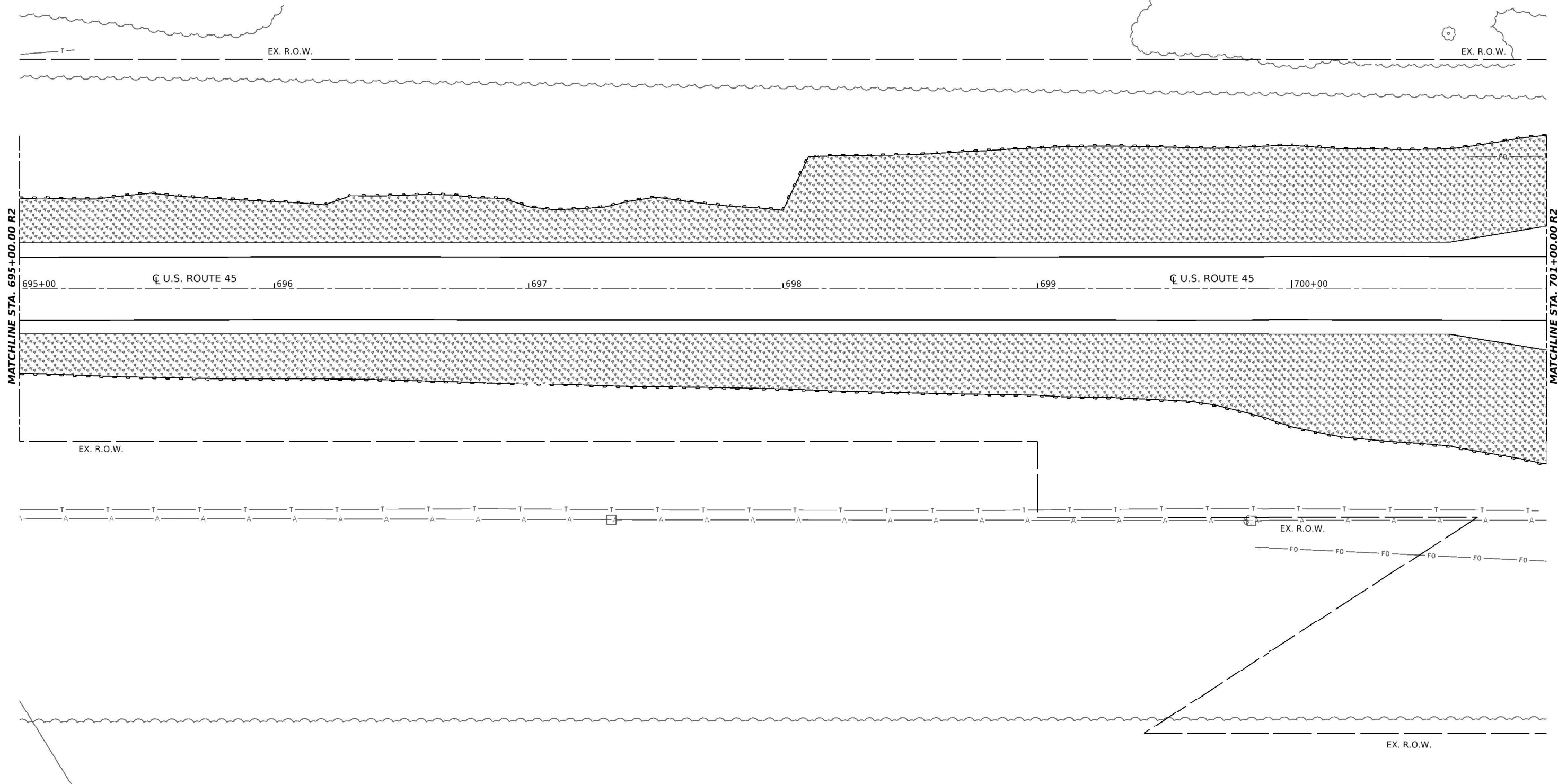
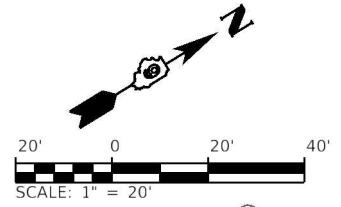
F.A.P. 332 (U.S. ROUTE 45)
 EROSION CONTROL PLAN
 SCALE: 1" = 20' SHEET 1 OF 7 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	29B-3; 29B-4	SALINE	150	40
CONTRACT NO. 78716				

Long Section Number ILLINOIS FED. AID PROJECT

LEGEND

-  EROSION CONTROL PERIMETER BARRIER
-  INLET AND PIPE PROTECTION
-  MULCH, METHOD 2
-  EROSION CONTROL BLANKET
-  STONE RIPRAP, CLASS A4
-  LIMITS OF CONSTRUCTION



NODE: E:\US45 - EROSION CONTROL.dwg
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USER NAME = moverbey	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 0.16666633' / in.	CHECKED -	REVISED -
PLOT DATE = 11/11/2022	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**







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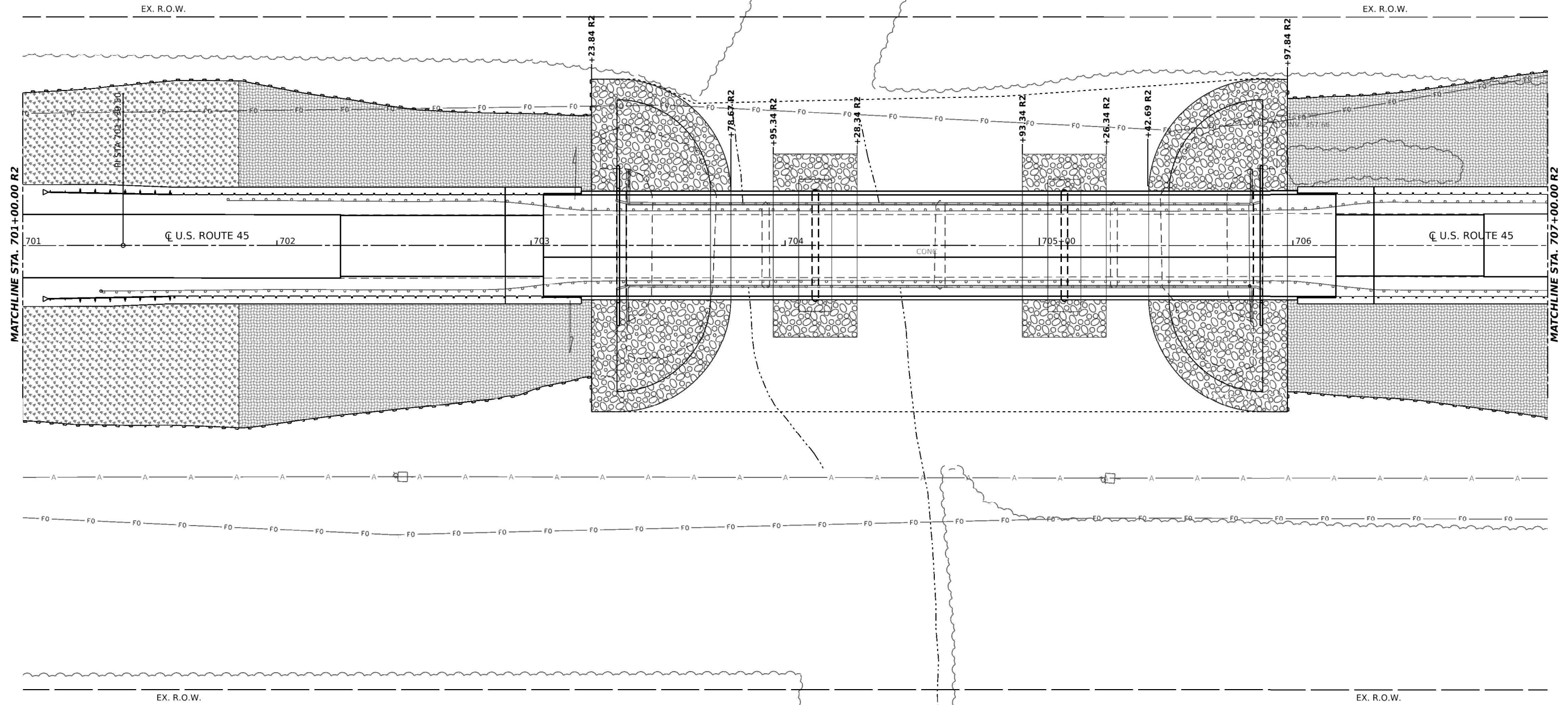
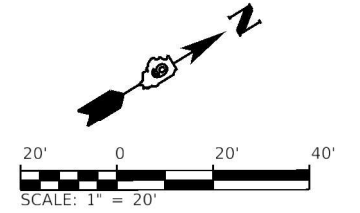
**F.A.P. 332 (U.S. ROUTE 45)
EROSION CONTROL PLAN**

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	29B-3; 29B-4	SALINE	150	41
CONTRACT NO. 78716				

ILLINOIS FED. AID PROJECT

LEGEND

-  EROSION CONTROL PERIMETER BARRIER
-  INLET AND PIPE PROTECTION
-  MULCH, METHOD 2
-  EROSION CONTROL BLANKET
-  STONE RIPRAP, CLASS A4
-  LIMITS OF CONSTRUCTION



USER NAME = moverbey	DESIGNED -	REVISED -
PLOT SCALE = 0.16666633' / in.	DRAWN -	REVISED -
PLOT DATE = 11/11/2022	CHECKED -	REVISED -
	DATE -	REVISED -







**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

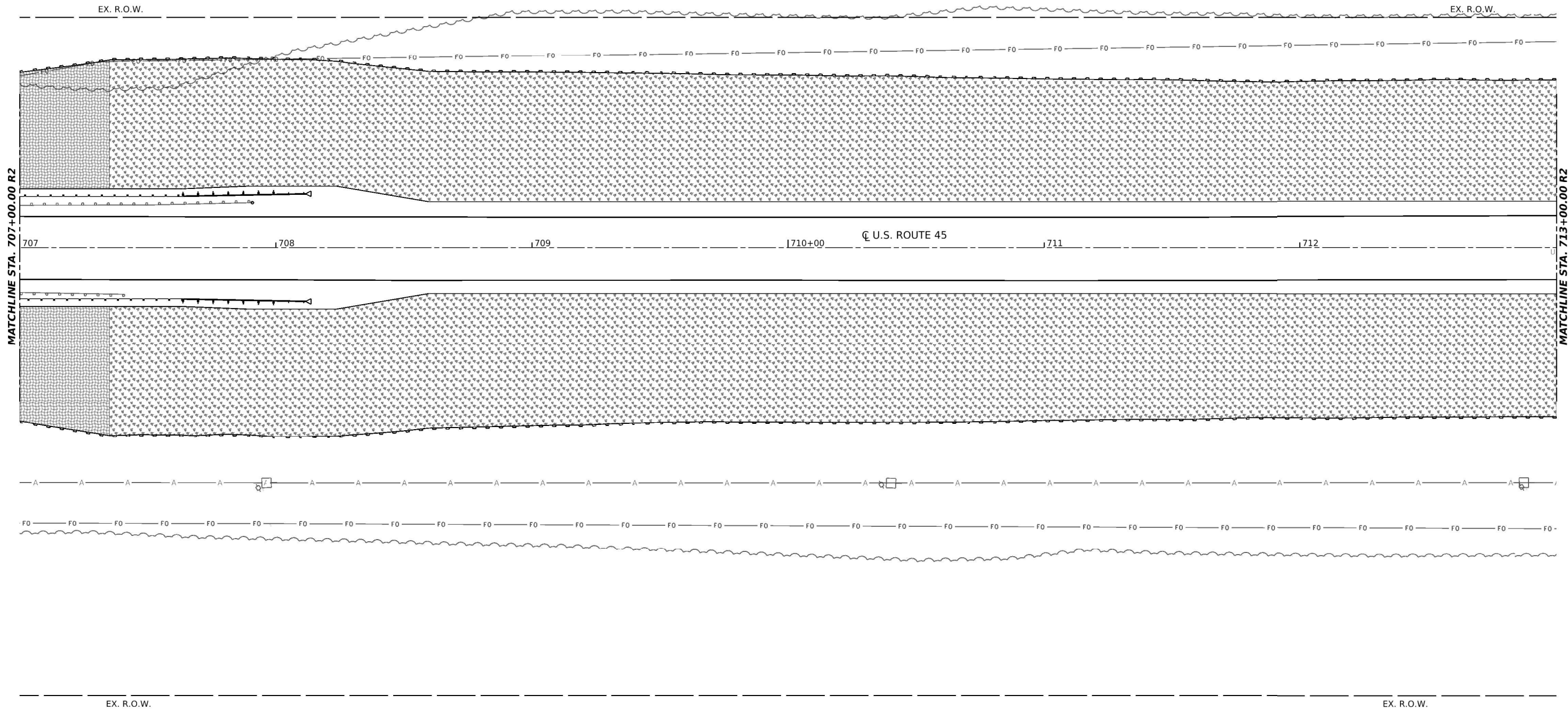
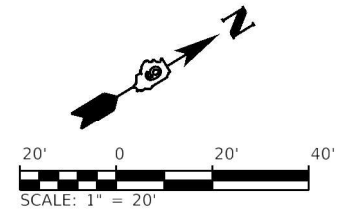
F.A.P. 332 (U.S. ROUTE 45)
 EROSION CONTROL PLAN
 SCALE: 1" = 20" SHEET 3 OF 7 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	29B-3; 29B-4	SALINE	150	42
CONTRACT NO. 78716				
Long Section Number				

ILLINOIS FED. AID PROJECT

LEGEND

-  EROSION CONTROL PERIMETER BARRIER
-  INLET AND PIPE PROTECTION
-  MULCH, METHOD 2
-  EROSION CONTROL BLANKET
-  STONE RIPRAP, CLASS A4
-  LIMITS OF CONSTRUCTION



NODE: E:\US45 - EROSION CONTROL PLAN.dwg
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	DRAWN -	REVISED -
PLOT SCALE = 0.16666633 / in.	CHECKED -	REVISED -
PLOT DATE = 11/11/2022	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**





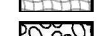
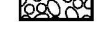
F.A.P. 332 (U.S. ROUTE 45)
EROSION CONTROL PLAN

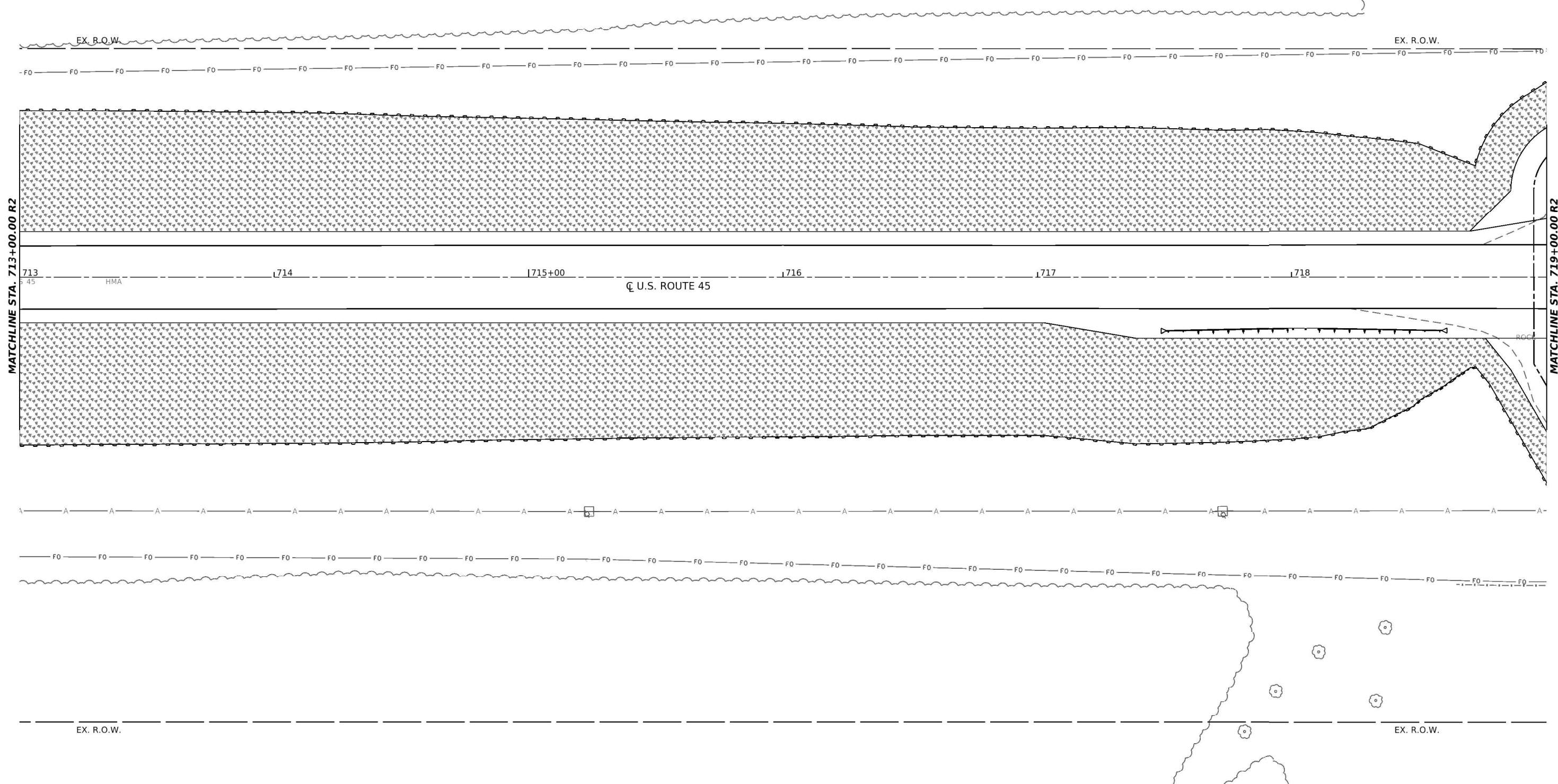
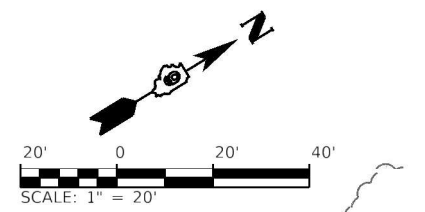
SCALE: 1" = 20' SHEET 4 OF 7 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	29B-3; 29B-4	SALINE	150	43
CONTRACT NO. 78716				

ILLINOIS FED. AID PROJECT
Long Section Number

LEGEND

-  EROSION CONTROL PERIMETER BARRIER
-  INLET AND PIPE PROTECTION
-  MULCH, METHOD 2
-  EROSION CONTROL BLANKET
-  STONE RIPRAP, CLASS A4
-  LIMITS OF CONSTRUCTION



NOTE: E:\US45 - EROSION CONTROL PLAN.dwg
 FILE NAME: L:\DOT\112022\112022\Roadway\CADD_Sheets\09716-shr-eros.dwg

USER NAME = moverbey	DESIGNED -	REVISED -
	DRAWN -	REVISED -
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PLOT DATE = 11/11/2022	DATE -	REVISED -







**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

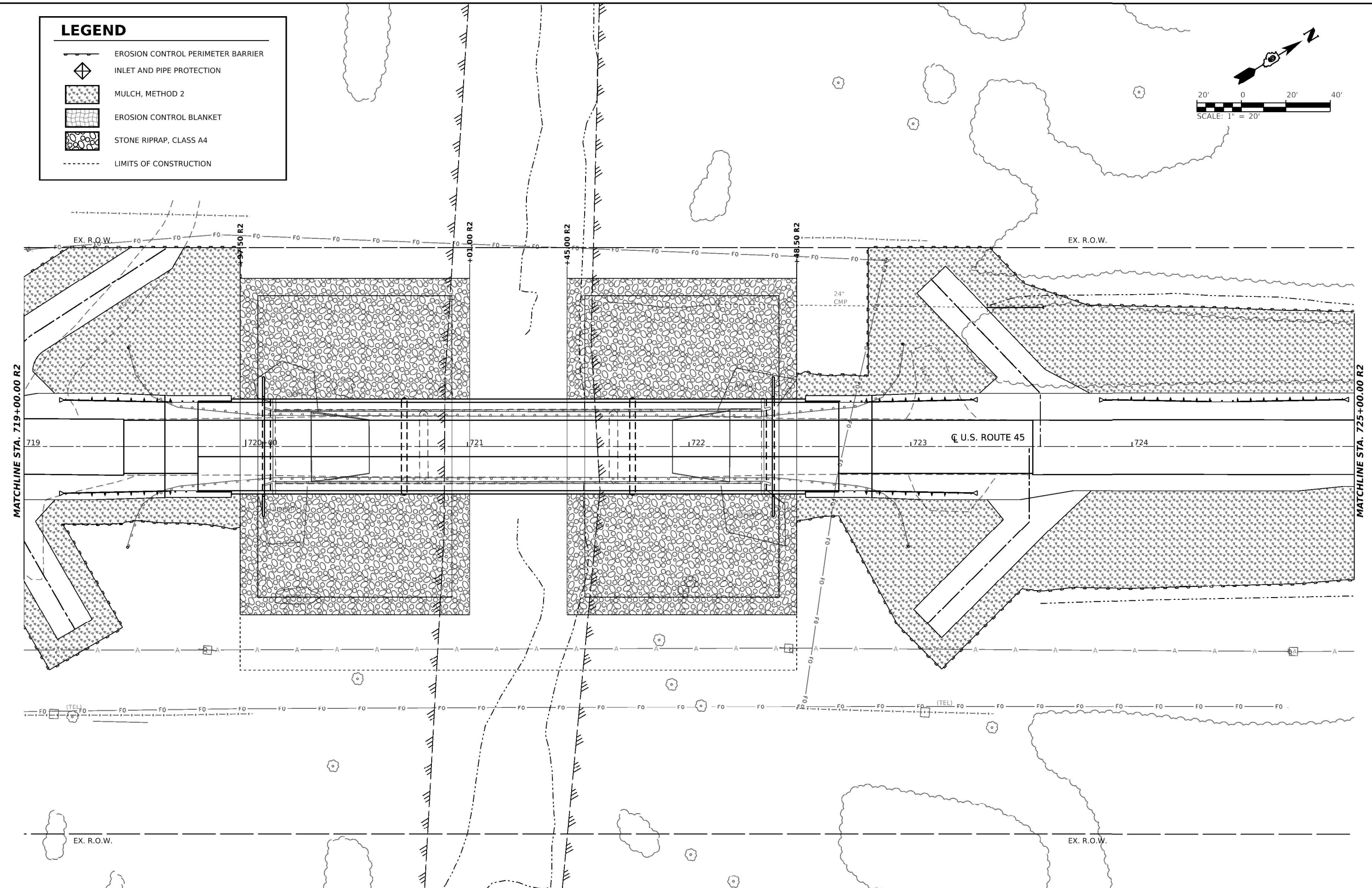
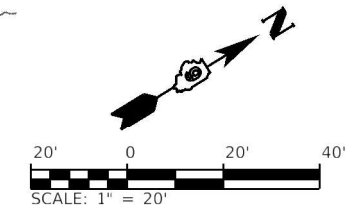
F.A.P. 332 (U.S. ROUTE 45)
 EROSION CONTROL PLAN
 SCALE: 1" = 20' SHEET 5 OF 7 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	29B-3; 29B-4	SALINE	150	44
CONTRACT NO. 78716				

Long Section Number ILLINOIS FED. AID PROJECT

LEGEND

-  EROSION CONTROL PERIMETER BARRIER
-  INLET AND PIPE PROTECTION
-  MULCH, METHOD 2
-  EROSION CONTROL BLANKET
-  STONE RIPRAP, CLASS A4
-  LIMITS OF CONSTRUCTION



NOTE: EX. R.O.W. = EXISTING RIGHT-OF-WAY
 FILE NAME: L:\DOT\11266610\W01_1101\Roadway\CADD_Sheets\09716_sht_eros.dwg

USER NAME = moverbey	DESIGNED -	REVISED -
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PLOT DATE = 11/11/2022	CHECKED -	REVISED -
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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

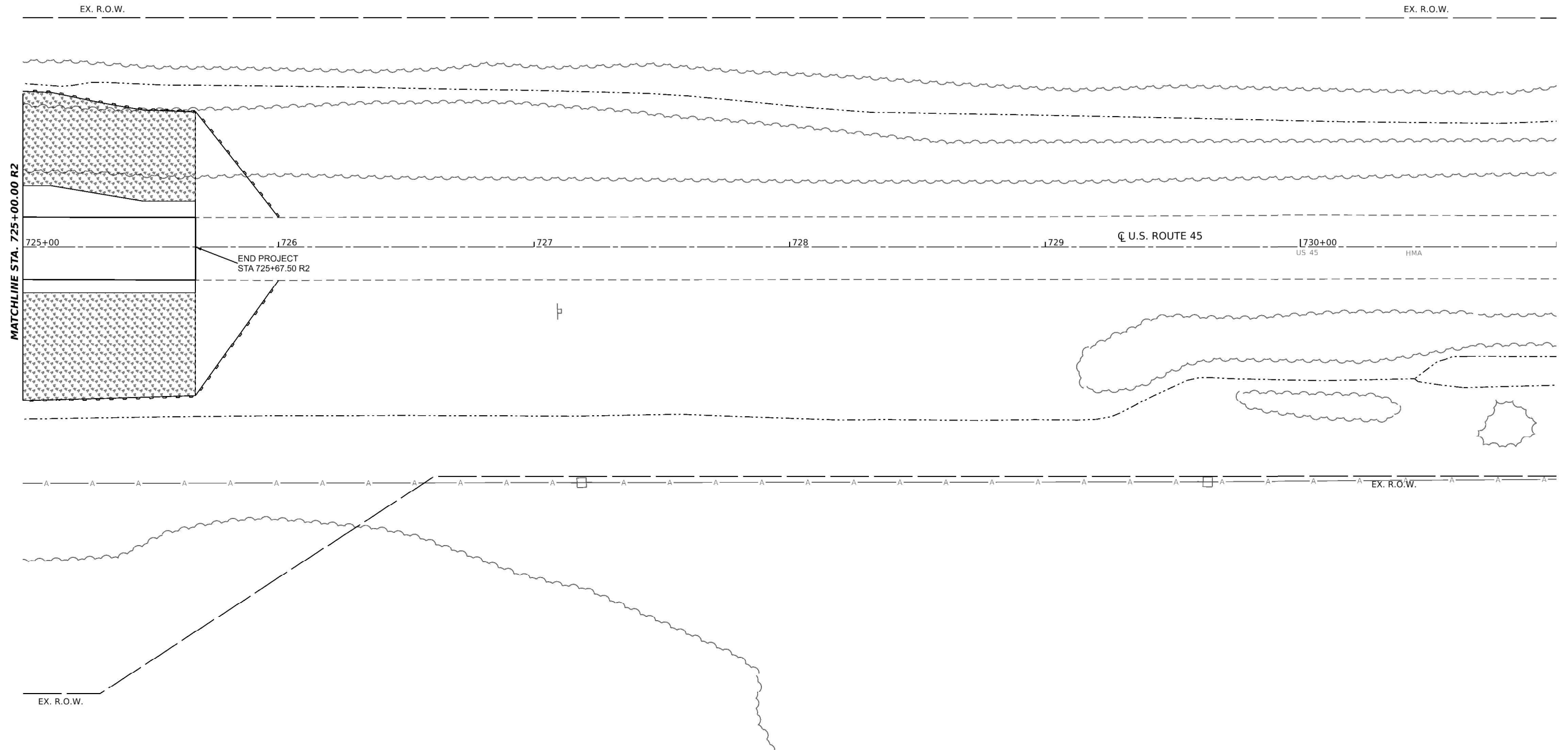
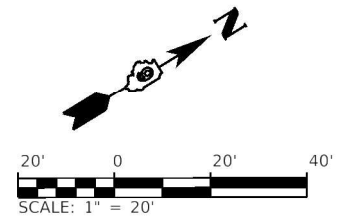
F.A.P. 332 (U.S. ROUTE 45)
 EROSION CONTROL PLAN
 SCALE: 1" = 20' SHEET 6 OF 7 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	29B-3; 29B-4	SALINE	150	45
CONTRACT NO. 78716				

Long Section Number ILLINOIS FED. AID PROJECT

LEGEND

-  EROSION CONTROL PERIMETER BARRIER
-  INLET AND PIPE PROTECTION
-  MULCH, METHOD 2
-  EROSION CONTROL BLANKET
-  STONE RIPRAP, CLASS A4
-  LIMITS OF CONSTRUCTION



NOTE: E:\US45 - EROSION CONTROL SHEET.dwg
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PLOT DATE = 11/11/2022	CHECKED -	REVISED -
	DATE -	REVISED -





**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

F.A.P. 332 (U.S. ROUTE 45)
 EROSION CONTROL PLAN
 SCALE: 1" = 20' SHEET 7 OF 7 SHEETS STA. TO STA.

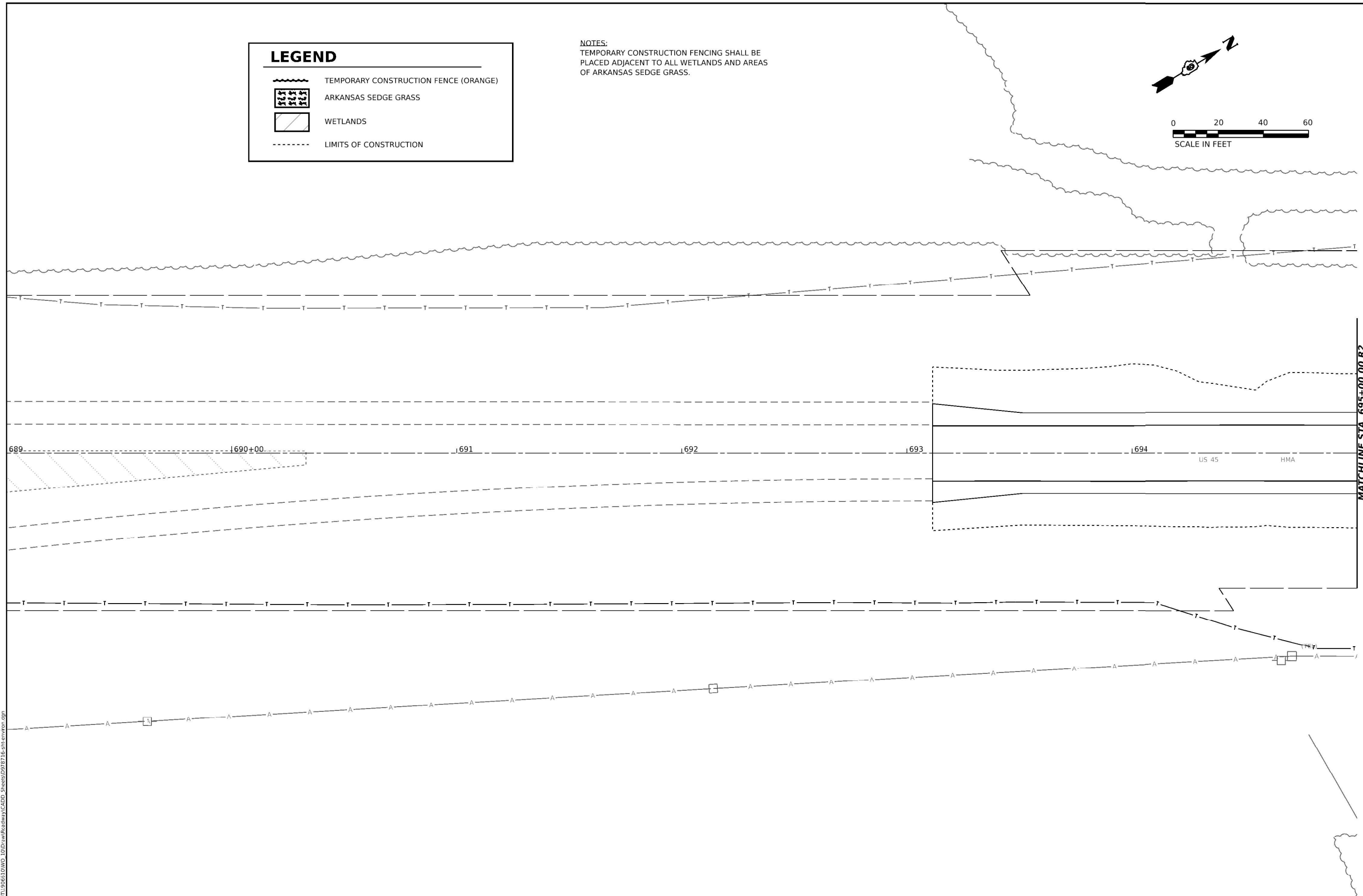
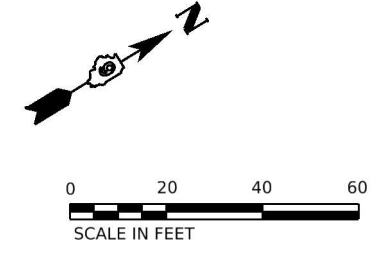
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	29B-3; 29B-4	SALINE	150	46
CONTRACT NO. 78716				

Long Section Number ILLINOIS FED. AID PROJECT

LEGEND

-  TEMPORARY CONSTRUCTION FENCE (ORANGE)
-  ARKANSAS SEDGE GRASS
-  WETLANDS
-  LIMITS OF CONSTRUCTION

NOTES:
 TEMPORARY CONSTRUCTION FENCING SHALL BE PLACED ADJACENT TO ALL WETLANDS AND AREAS OF ARKANSAS SEDGE GRASS.



NODE: E:\US45 - ENVAS (Sheet)
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PLOT SCALE = 0.16666633' / in.	DRAWN -	REVISED -
PLOT DATE = 11/11/2022	CHECKED -	REVISED -
	DATE -	REVISED -





**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

F.A.P. 332 (U.S. ROUTE 45)
 ENVIRONMENTAL PROTECTION PLAN
 SCALE: 1" = 20' SHEET 1 OF 7 SHEETS STA. TO STA.

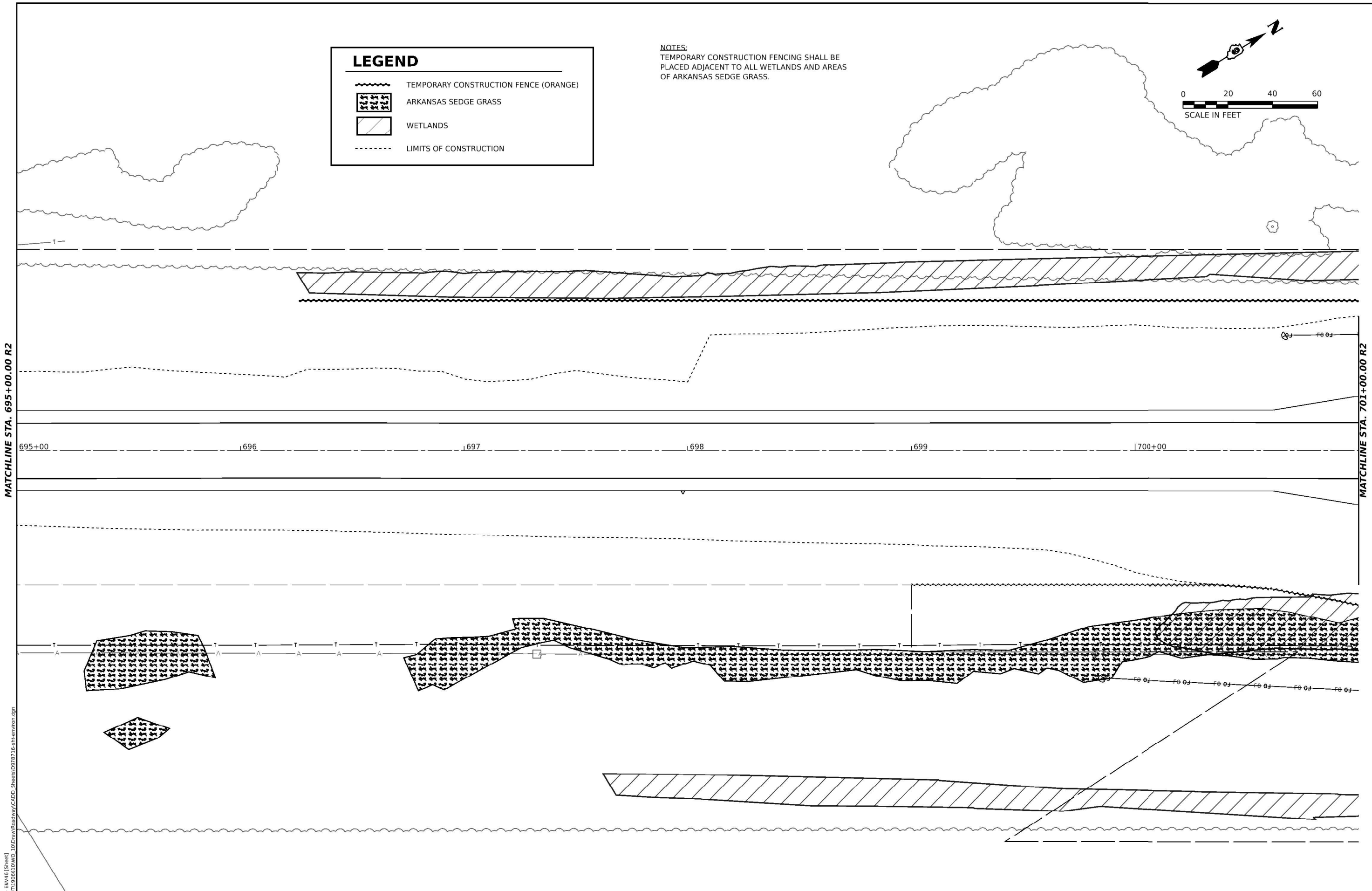
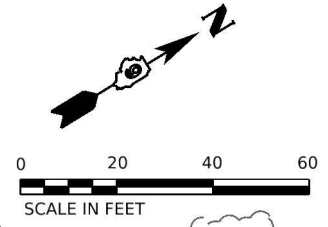
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	29B-3; 29B-4	SALINE	150	47
CONTRACT NO. 78716				
Long Section Number				

MATCHLINE STA. 695+00.00 R2

LEGEND

-  TEMPORARY CONSTRUCTION FENCE (ORANGE)
-  ARKANSAS SEDGE GRASS
-  WETLANDS
-  LIMITS OF CONSTRUCTION

NOTES:
 TEMPORARY CONSTRUCTION FENCING SHALL BE PLACED ADJACENT TO ALL WETLANDS AND AREAS OF ARKANSAS SEDGE GRASS.



MATCHLINE STA. 695+00.00 R2

MATCHLINE STA. 701+00.00 R2

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	DATE -	REVISED -

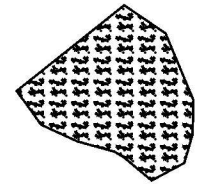
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

F.A.P. 332 (U.S. ROUTE 45)
 ENVIRONMENTAL PROTECTION PLAN

SCALE: 1" = 20' SHEET 2 OF 7 SHEETS STA. TO STA.

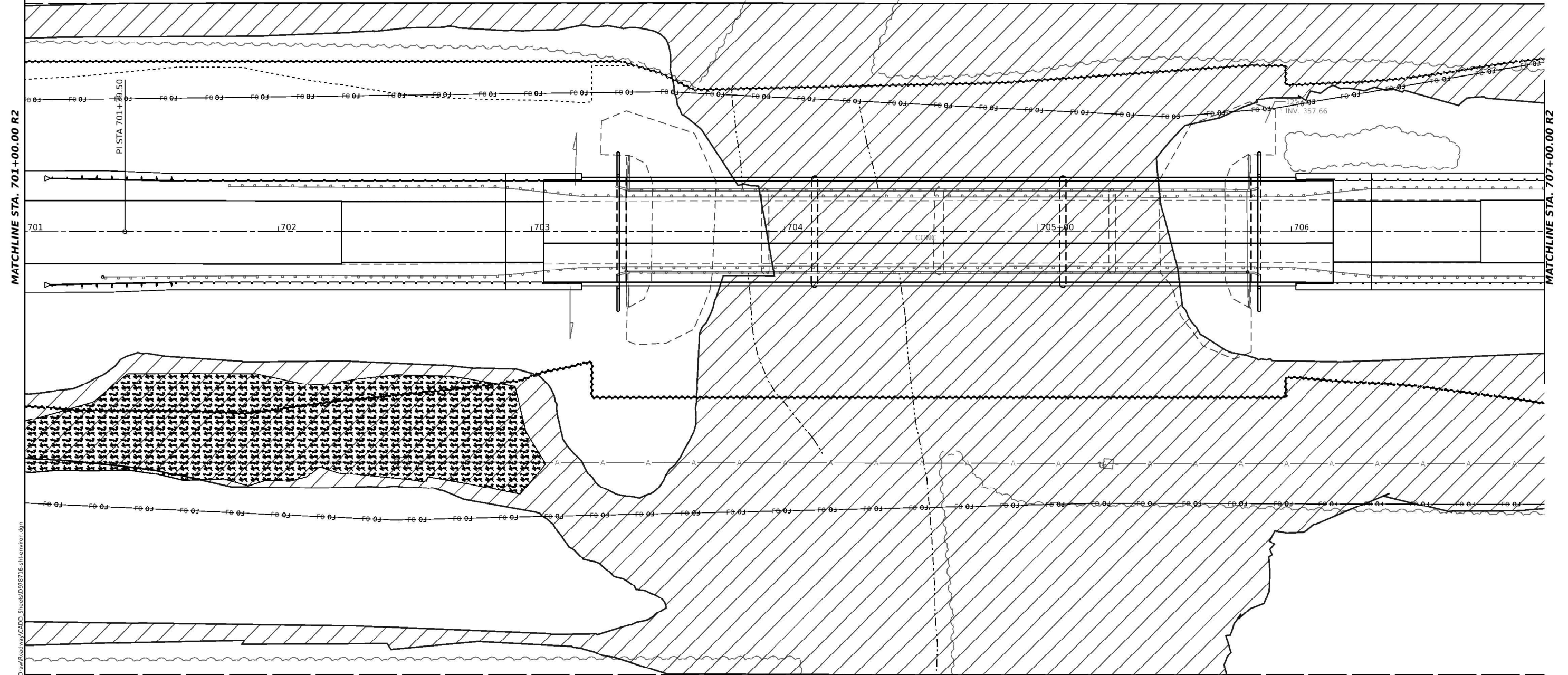
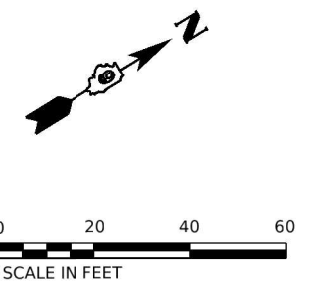
F.A.P. RTE. 332	SECTION 29B-3; 29B-4	COUNTY SALINE	TOTAL SHEETS 150	SHEET NO. 48
CONTRACT NO. 78716				
Long Section Number				

ILLINOIS FED. AID PROJECT



LEGEND	
	TEMPORARY CONSTRUCTION FENCE (ORANGE)
	ARKANSAS SEDGE GRASS
	WETLANDS
	LIMITS OF CONSTRUCTION

NOTES:
 TEMPORARY CONSTRUCTION FENCING SHALL BE PLACED ADJACENT TO ALL WETLANDS AND AREAS OF ARKANSAS SEDGE GRASS.



MATCHLINE STA. 701+00.00 R2

MATCHLINE STA. 707+00.00 R2

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PLOT SCALE = 0.16666633' / in.	DRAWN -	REVISED -
PLOT DATE = 11/11/2022	CHECKED -	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**





F.A.P. 332 (U.S. ROUTE 45)
 ENVIRONMENTAL PROTECTION PLAN

SCALE: 1" = 20' SHEET 3 OF 7 SHEETS STA. TO STA.

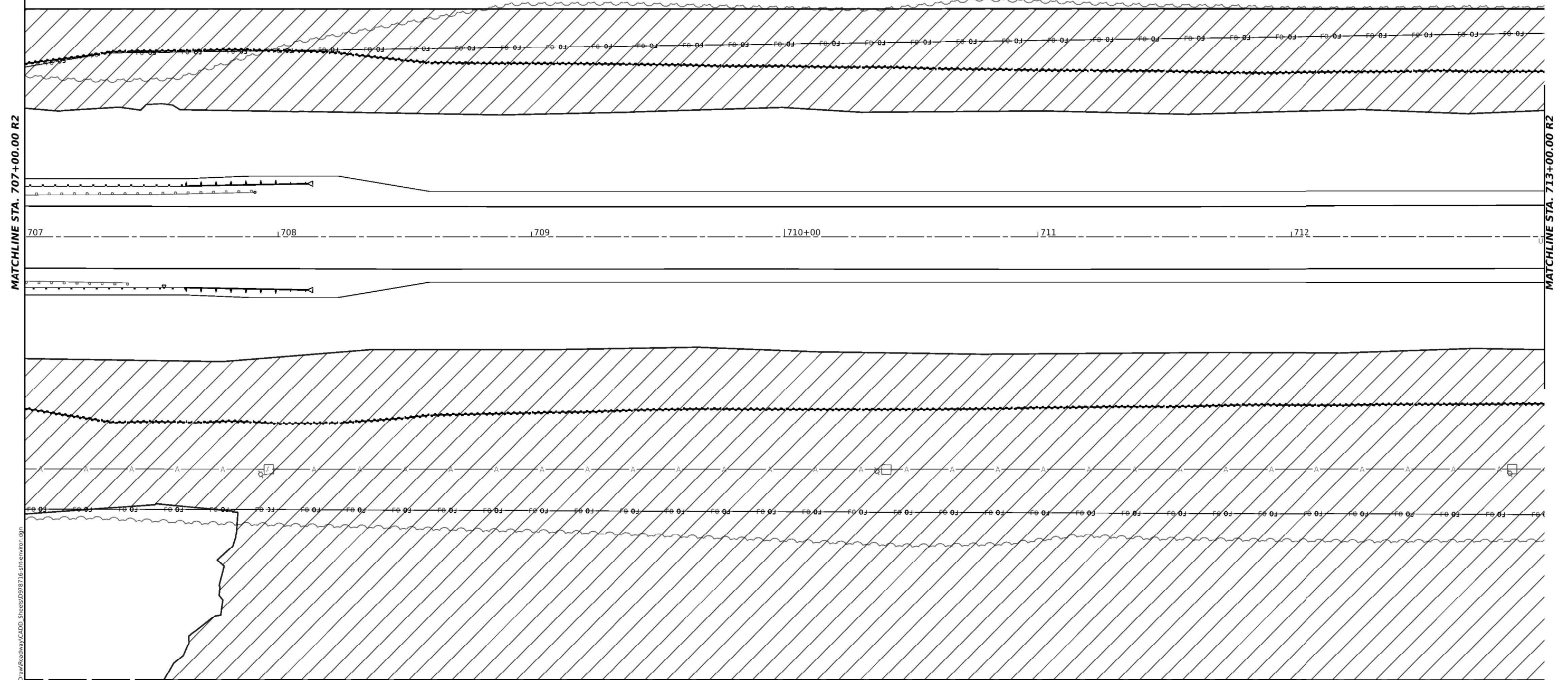
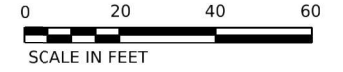
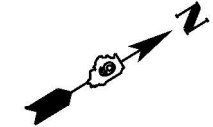
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	29B-3; 29B-4	SALINE	150	49
CONTRACT NO. 78716				

Long Section Number

LEGEND

-  TEMPORARY CONSTRUCTION FENCE (ORANGE)
-  ARKANSAS SEDGE GRASS
-  WETLANDS
-  LIMITS OF CONSTRUCTION

NOTES:
 TEMPORARY CONSTRUCTION FENCING SHALL BE PLACED ADJACENT TO ALL WETLANDS AND AREAS OF ARKANSAS SEDGE GRASS.



MATCHLINE STA. 707+00.00 R2

MATCHLINE STA. 713+00.00 R2

NODE: E:\USERS\BVA481\Sheet1
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PLOT SCALE = 0.16666633' / in.	DRAWN -	REVISED -
PLOT DATE = 11/11/2022	CHECKED -	REVISED -
	DATE -	REVISED -





**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

F.A.P. 332 (U.S. ROUTE 45)
 ENVIRONMENTAL PROTECTION PLAN
 SCALE: 1" = 10' SHEET 4 OF 7 SHEETS STA. TO STA.

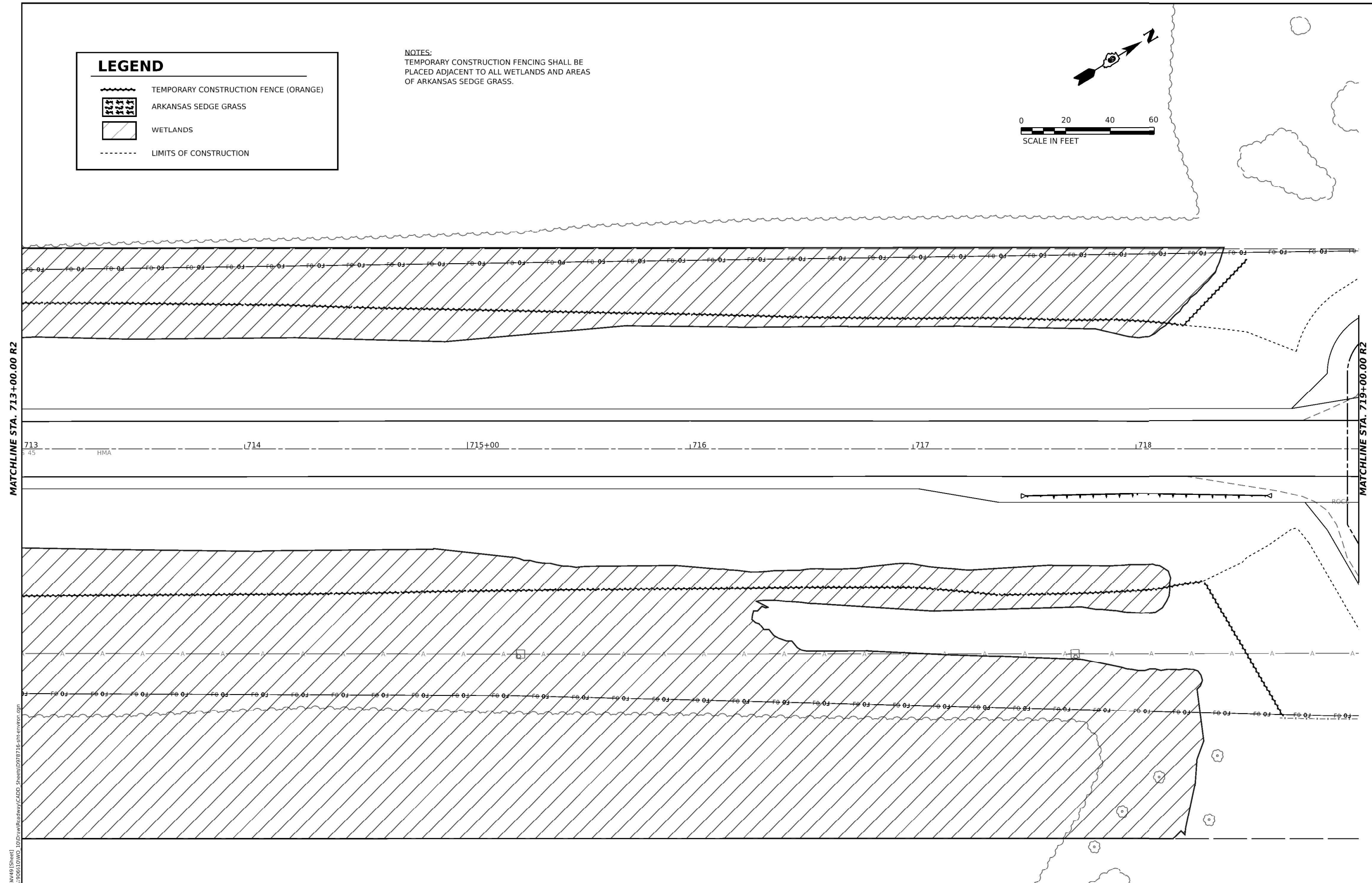
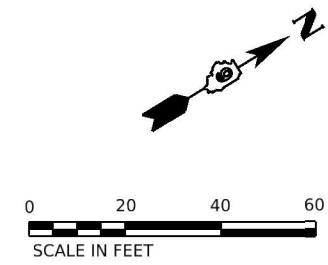
F.A.P. RTE. 332	SECTION 29B-3; 29B-4	COUNTY SALINE	TOTAL SHEETS 150	SHEET NO. 50
CONTRACT NO. 78716				
ILLINOIS FED. AID PROJECT				

Long Section Number

LEGEND

-  TEMPORARY CONSTRUCTION FENCE (ORANGE)
-  ARKANSAS SEDGE GRASS
-  WETLANDS
-  LIMITS OF CONSTRUCTION

NOTES:
 TEMPORARY CONSTRUCTION FENCING SHALL BE
 PLACED ADJACENT TO ALL WETLANDS AND AREAS
 OF ARKANSAS SEDGE GRASS.



MATCHLINE STA. 713+00.00 R2

MATCHLINE STA. 719+00.00 R2

NOTE: E:\USERS\BVA40\Sheet1
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PLOT SCALE = 0.16666633' / in.	DRAWN -	REVISED -
PLOT DATE = 11/11/2022	CHECKED -	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**





F.A.P. 332 (U.S. ROUTE 45)
 ENVIRONMENTAL PROTECTION PLAN

SCALE: 1" = 20' SHEET 5 OF 7 SHEETS STA. TO STA.

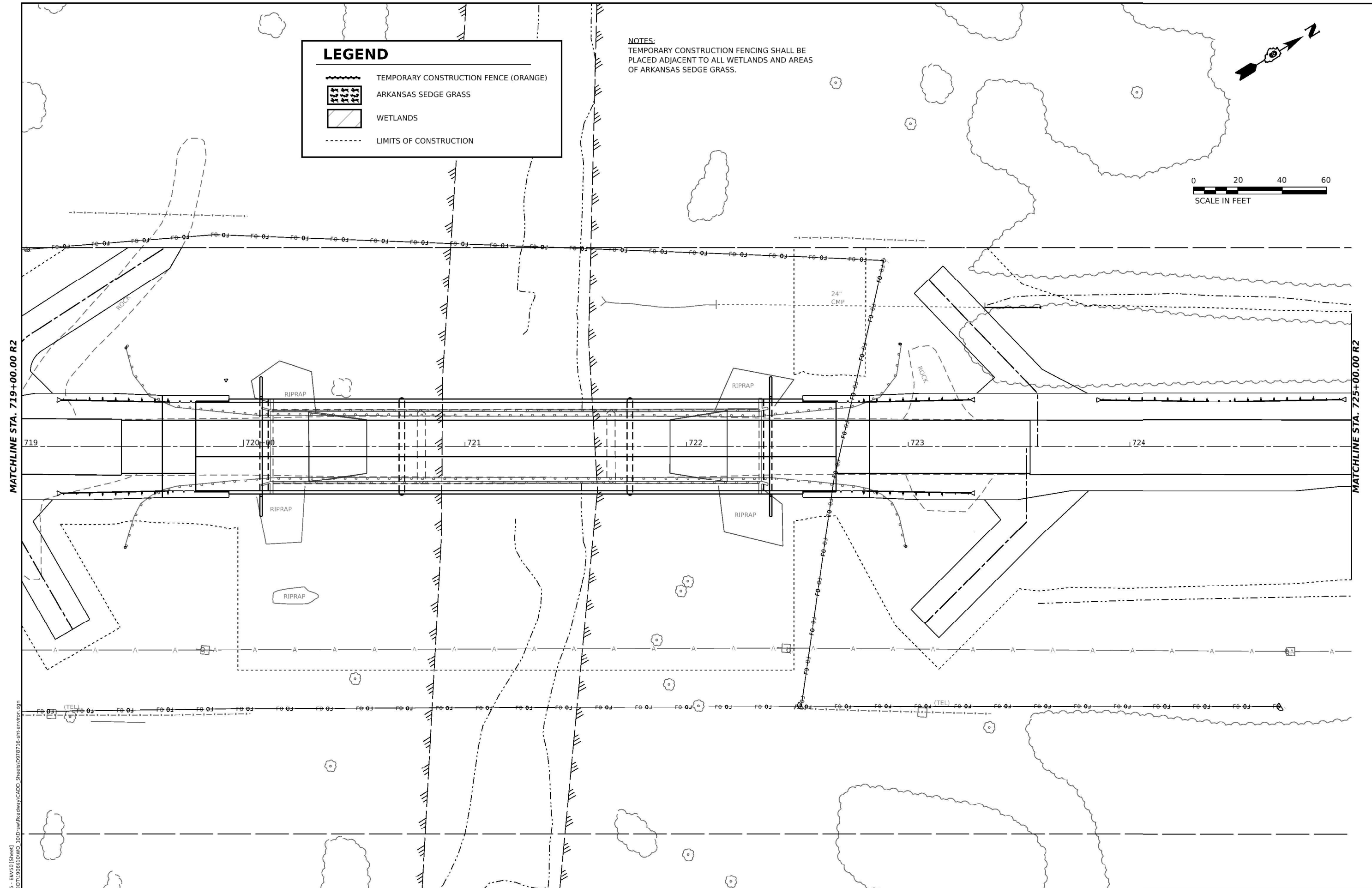
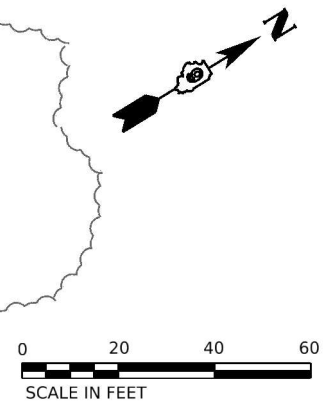
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	29B-3; 29B-4	SALINE	150	51
CONTRACT NO. 78716				

Long Section Number ILLINOIS FED. AID PROJECT

LEGEND

-  TEMPORARY CONSTRUCTION FENCE (ORANGE)
-  ARKANSAS SEDGE GRASS
-  WETLANDS
-  LIMITS OF CONSTRUCTION

NOTES:
 TEMPORARY CONSTRUCTION FENCING SHALL BE PLACED ADJACENT TO ALL WETLANDS AND AREAS OF ARKANSAS SEDGE GRASS.



MATCHLINE STA. 719+00.00 R2

MATCHLINE STA. 725+00.00 R2

NOTE: E:\USERS\mover\01\sheet1
 FILE NAME: L:\DOT\1906610\WD_100\DrawRoadway\CADD_Sheets\097816_sht-environ.dwg

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PLOT DATE = 11/11/2022	CHECKED -	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**





F.A.P. 332 (U.S. ROUTE 45)
 ENVIRONMENTAL PROTECTION PLAN

SCALE: 1" = 20' SHEET 6 OF 7 SHEETS STA. TO STA.

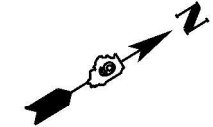
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332	29B-3; 29B-4	SALINE	150	52
CONTRACT NO. 78716				

Long Section Number ILLINOIS FED. AID PROJECT

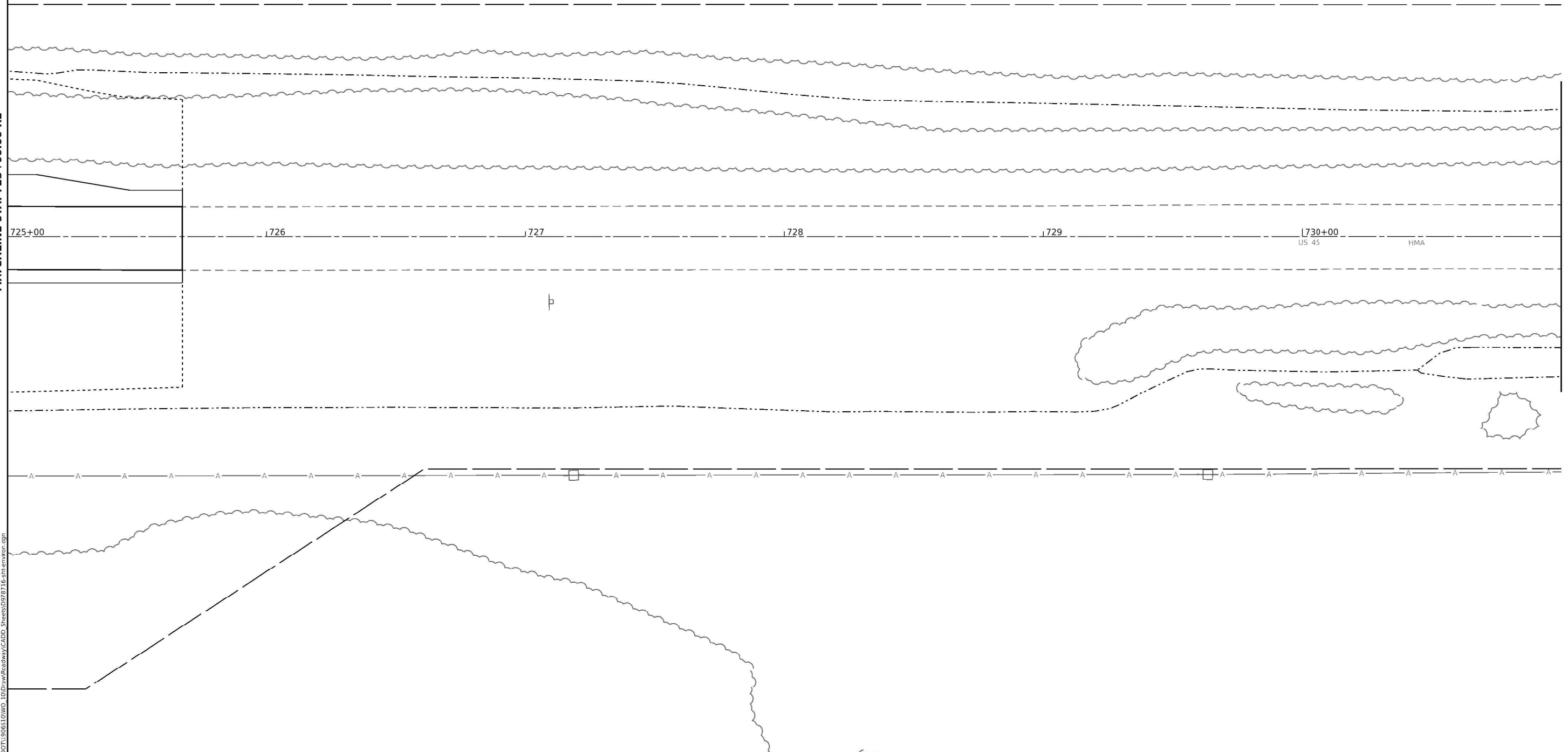
LEGEND

-  TEMPORARY CONSTRUCTION FENCE (ORANGE)
-  ARKANSAS SEDGE GRASS
-  WETLANDS
-  LIMITS OF CONSTRUCTION

NOTES:
 TEMPORARY CONSTRUCTION FENCING SHALL BE PLACED ADJACENT TO ALL WETLANDS AND AREAS OF ARKANSAS SEDGE GRASS.



MATCHLINE STA. 725+00.00 R2



NOTE: E:\US45 - ENV\1 (Sheet) FILE NAME: L:\DOT\1906610\WD_1\DDDraw\Roadway\CADD_Sheets\DR78716-sh1-environ.dgn

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	DRAWN -	REVISED -
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PLOT DATE = 11/11/2022	DATE -	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

F.A.P. 332 (U.S. ROUTE 45)
 ENVIRONMENTAL PROTECTION PLAN

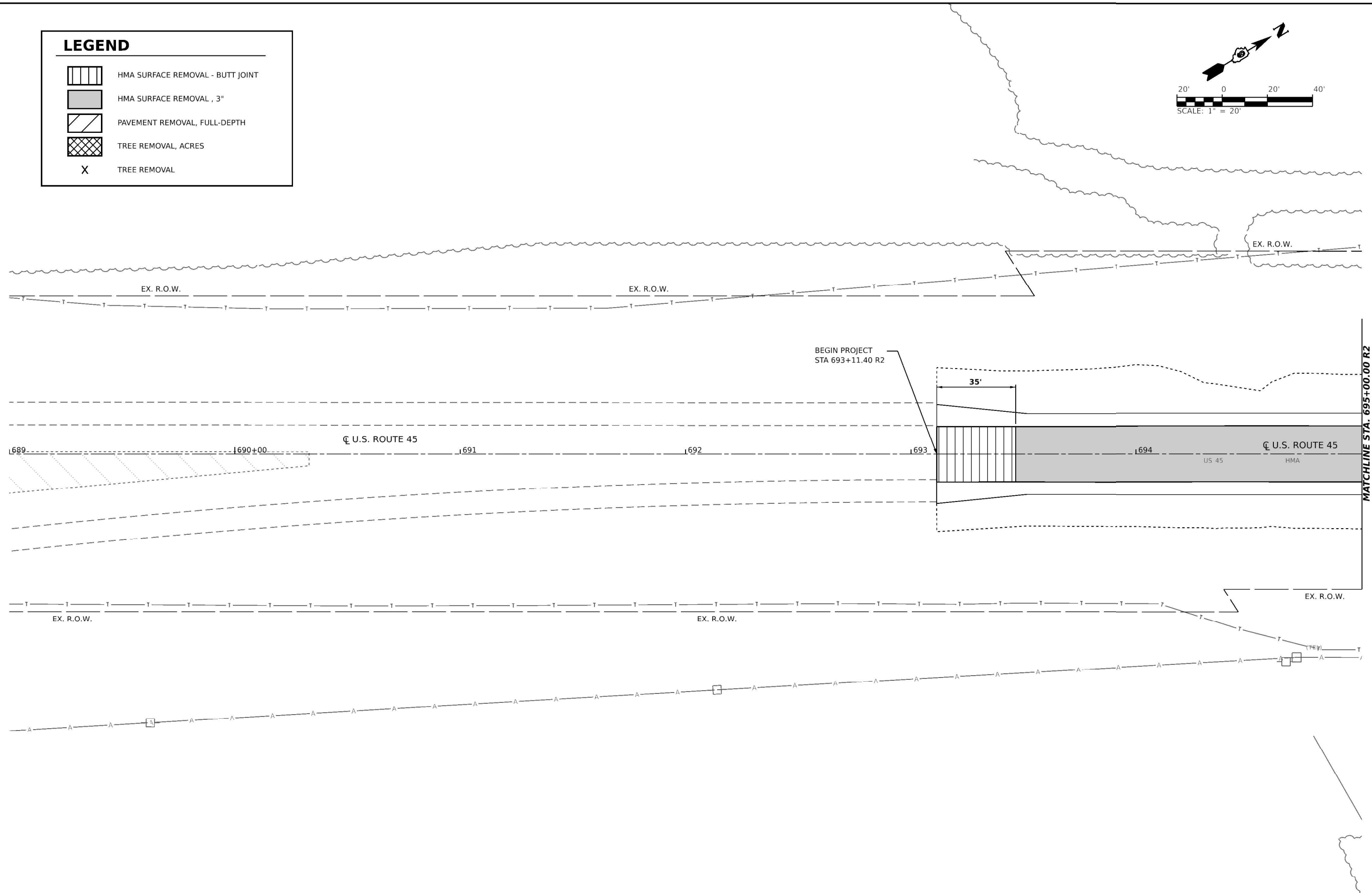
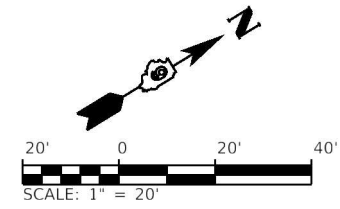
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	29B-3; 29B-4	SALINE	150	53
CONTRACT NO. 78716				

SCALE: 1" = 20' SHEET 7 OF 7 SHEETS STA. TO STA.

Long Section Number ILLINOIS FED. AID PROJECT

LEGEND

-  HMA SURFACE REMOVAL - BUTT JOINT
-  HMA SURFACE REMOVAL, 3"
-  PAVEMENT REMOVAL, FULL-DEPTH
-  TREE REMOVAL, ACRES
-  TREE REMOVAL



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PLOT DATE = 11/11/2022	CHECKED -	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

F.A.P. 332 (U.S. ROUTE 45)
REMOVAL PLAN

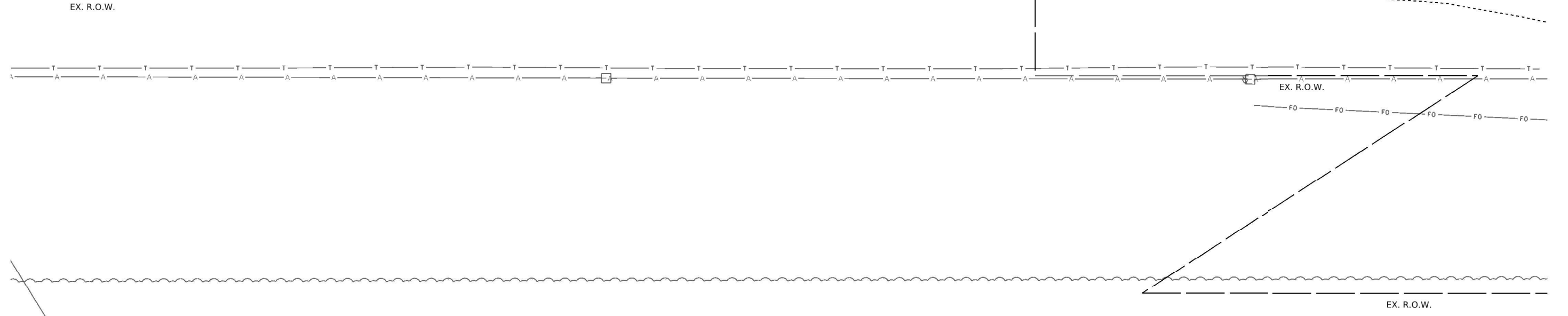
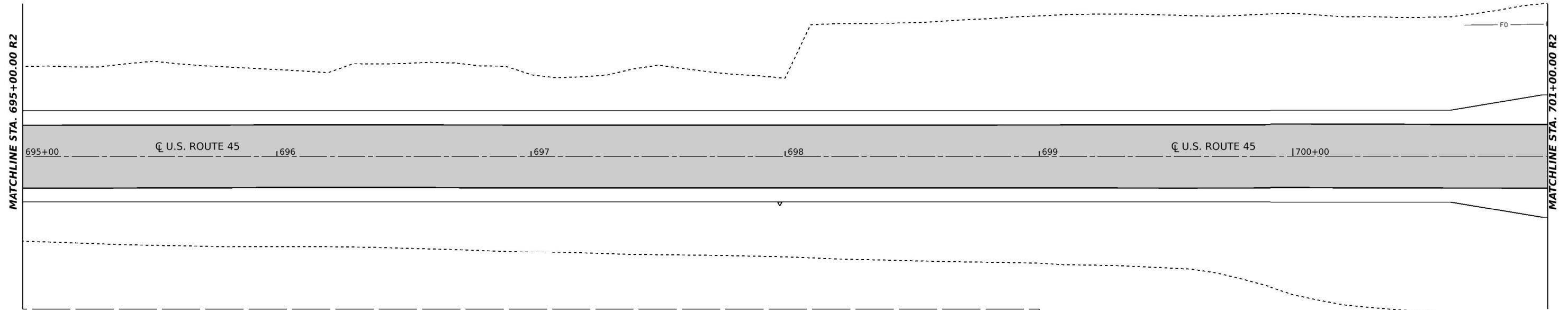
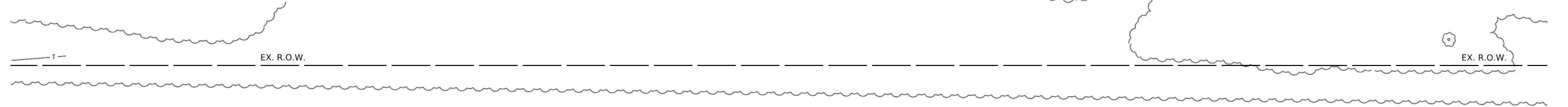
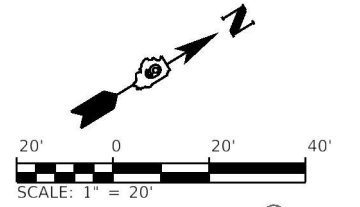
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	29B-3; 29B-4	SALINE	150	54
CONTRACT NO. 78716				
Long Section Number				

ILLINOIS FED. AID PROJECT

LEGEND

-  HMA SURFACE REMOVAL - BUTT JOINT
-  HMA SURFACE REMOVAL, 3"
-  PAVEMENT REMOVAL, FULL-DEPTH
-  TREE REMOVAL, ACRES
-  TREE REMOVAL



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DRAWN -	REVISED -	
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PLOT DATE = 11/11/2022	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

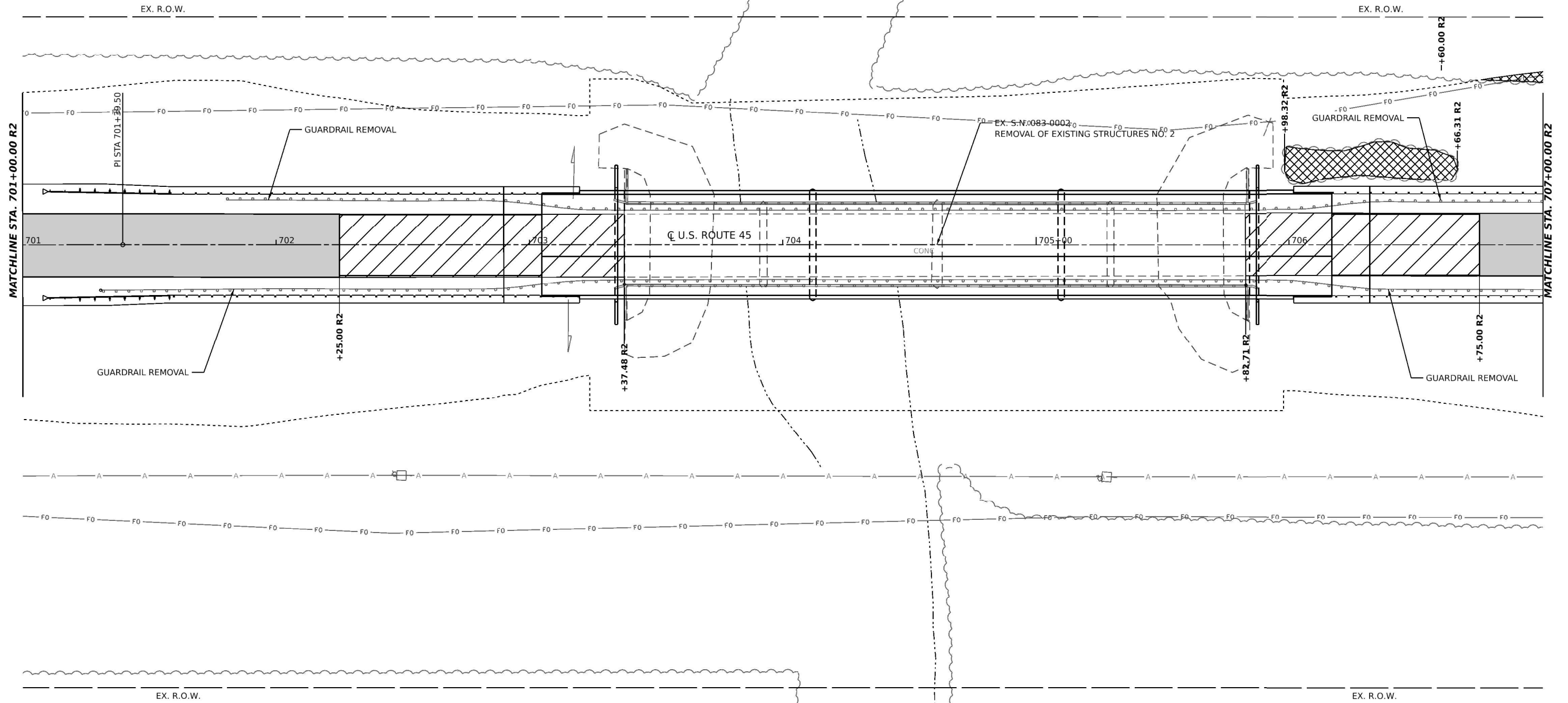
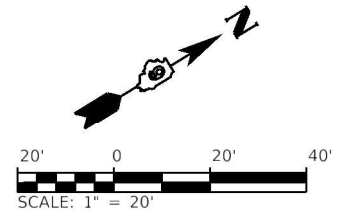
F.A.P. 332 (U.S. ROUTE 45)
 REMOVAL PLAN
 SCALE: 1" = 20' SHEET 2 OF 7 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	29B-3; 29B-4	SALINE	150	55
CONTRACT NO. 78716				

Long Section Number

LEGEND

-  HMA SURFACE REMOVAL - BUTT JOINT
-  HMA SURFACE REMOVAL, 3"
-  PAVEMENT REMOVAL, FULL-DEPTH
-  TREE REMOVAL, ACRES
-  TREE REMOVAL



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PLOT DATE = 11/11/2022	CHECKED -	REVISED -
	DATE -	REVISED -






**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

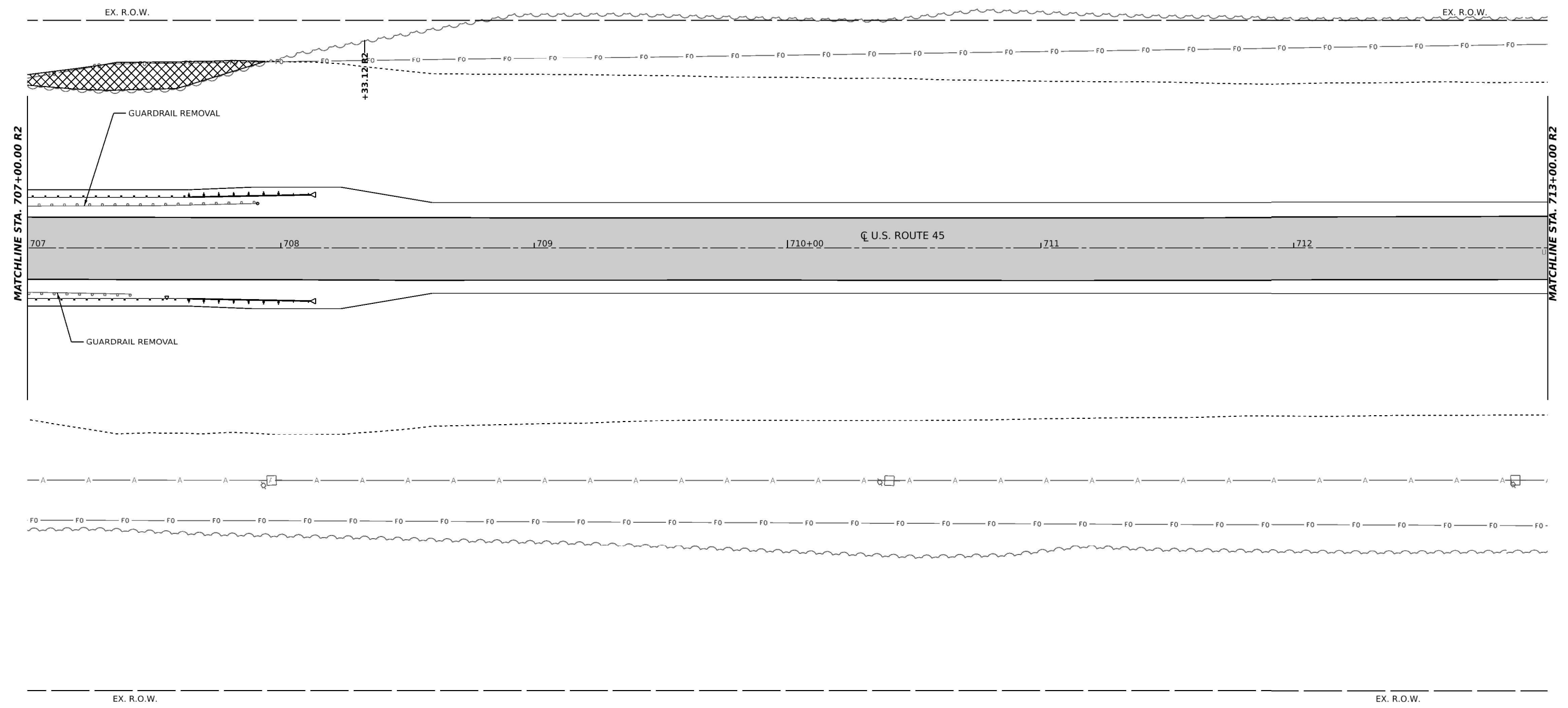
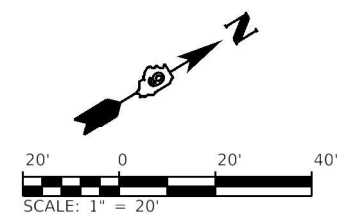
F.A.P. 332 (U.S. ROUTE 45)
REMOVAL PLAN

SCALE: 1" = 20" SHEET 3 OF 7 SHEETS STA. TO STA.

F.A.P. RTE. 332	SECTION 29B-3; 29B-4	COUNTY SALINE	TOTAL SHEETS 150	SHEET NO. 56
CONTRACT NO. 78716				
Long Section Number		ILLINOIS	FED. AID PROJECT	

LEGEND

-  HMA SURFACE REMOVAL - BUTT JOINT
-  HMA SURFACE REMOVAL, 3"
-  PAVEMENT REMOVAL, FULL-DEPTH
-  TREE REMOVAL, ACRES
-  TREE REMOVAL



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	DATE -	REVISED -

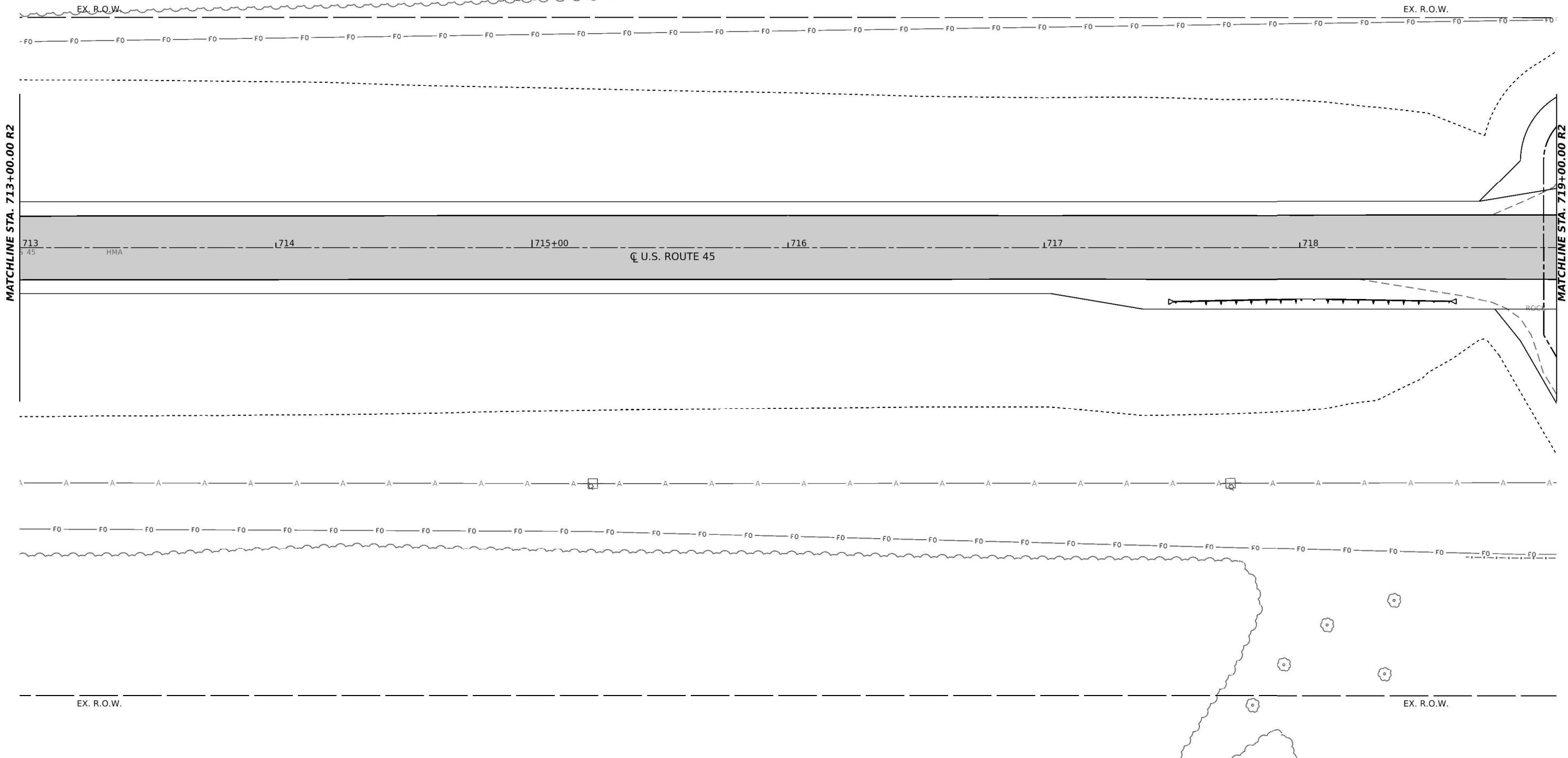
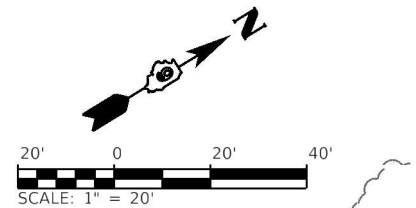
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.P. 332 (U.S. ROUTE 45)
 REMOVAL PLAN
 SCALE: 1" = 20' SHEET 4 OF 7 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	29B-3; 29B-4	SALINE	150	57
CONTRACT NO. 78716				
<small>ILLINOIS FED. AID PROJECT</small> <small>Long Section Number</small>				

LEGEND

-  HMA SURFACE REMOVAL - BUTT JOINT
-  HMA SURFACE REMOVAL, 3"
-  PAVEMENT REMOVAL, FULL-DEPTH
-  TREE REMOVAL, ACRES
-  TREE REMOVAL



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	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

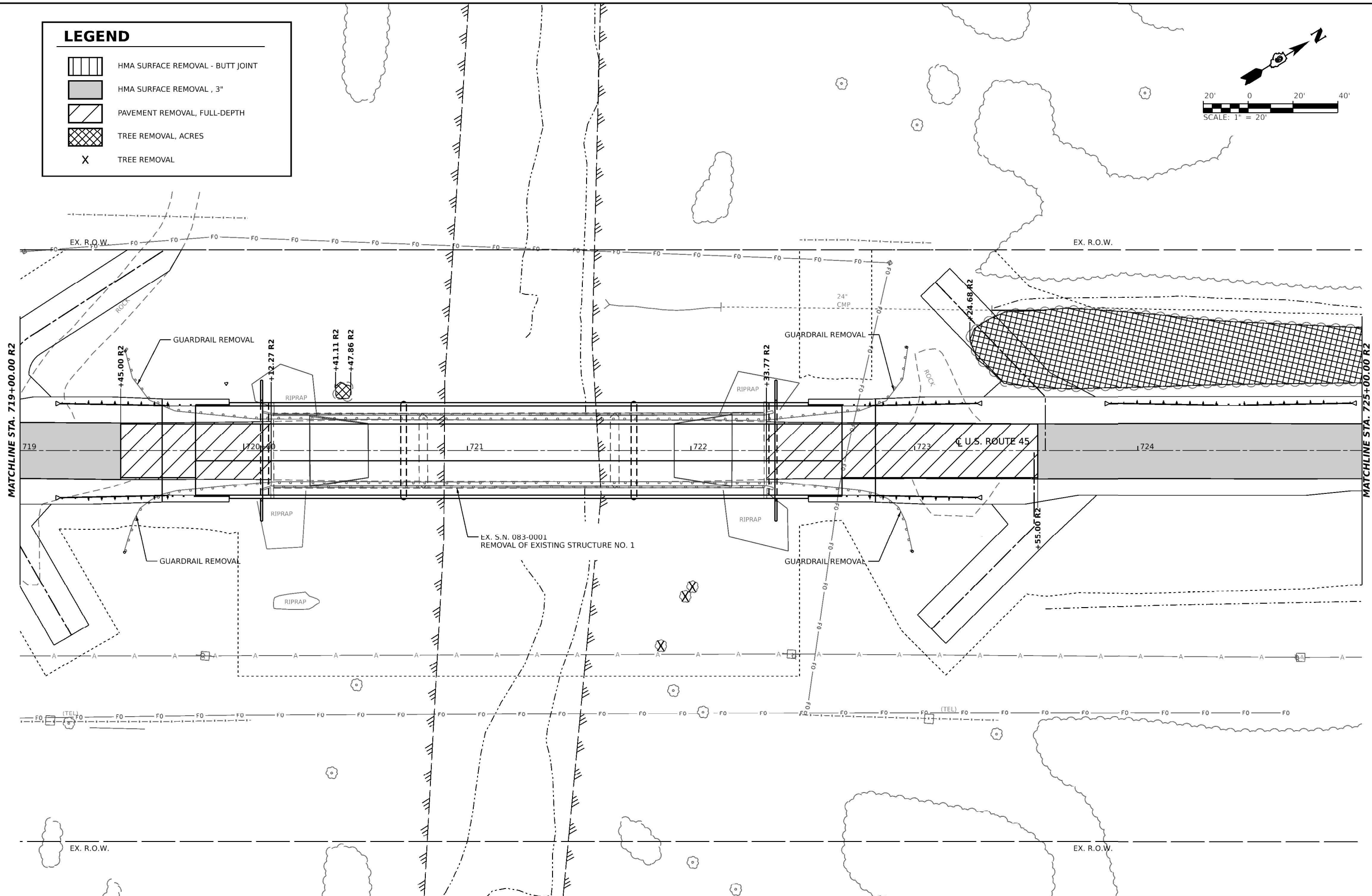
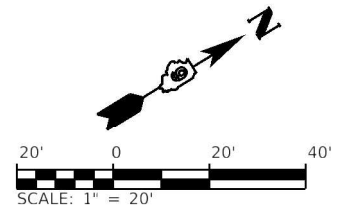
F.A.P. 332 (U.S. ROUTE 45)
 REMOVAL PLAN
 SCALE: 1" = 20' SHEET 5 OF 7 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	29B-3; 29B-4	SALINE	150	58
CONTRACT NO. 78716				
ILLINOIS FED. AID PROJECT				

Long Section Number

LEGEND

-  HMA SURFACE REMOVAL - BUTT JOINT
-  HMA SURFACE REMOVAL, 3"
-  PAVEMENT REMOVAL, FULL-DEPTH
-  TREE REMOVAL, ACRES
-  TREE REMOVAL



NOTE: EX. USES - REMOVAL & (Sheet)
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PLOT DATE = 11/11/2022	CHECKED -	REVISED -
	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.P. 332 (U.S. ROUTE 45)
 REMOVAL PLAN

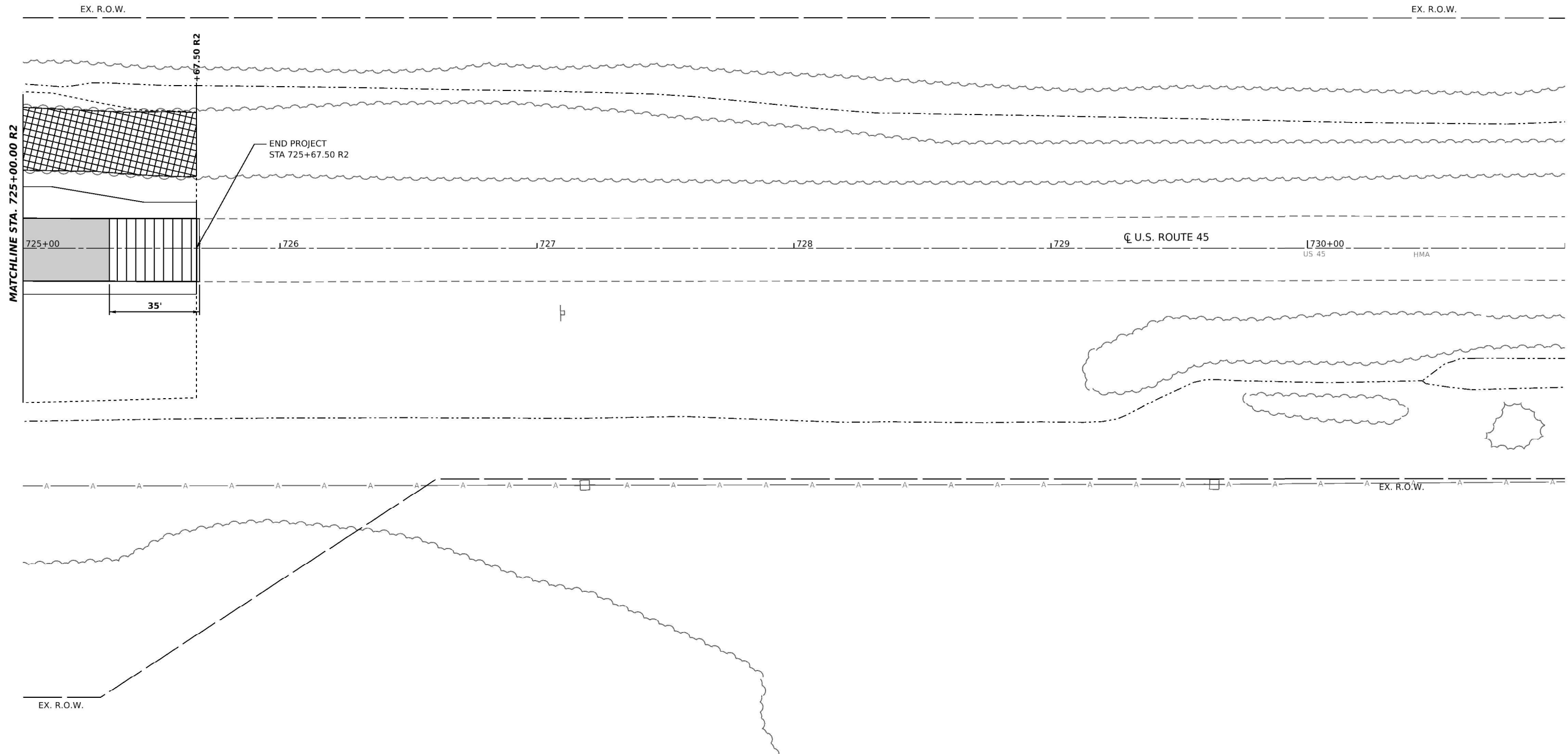
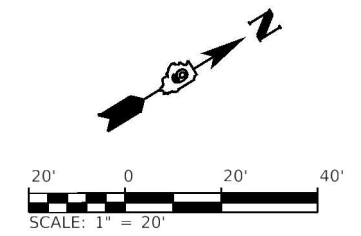
SCALE: 1" = 20' SHEET 6 OF 7 SHEETS STA. TO STA.

F.A.P. RTE. 332	SECTION 29B-3; 29B-4	COUNTY SALINE	TOTAL SHEETS 150	SHEET NO. 59
CONTRACT NO. 78716				
ILLINOIS FED. AID PROJECT				

Long Section Number

LEGEND

-  HMA SURFACE REMOVAL - BUTT JOINT
-  HMA SURFACE REMOVAL, 3"
-  PAVEMENT REMOVAL, FULL-DEPTH
-  TREE REMOVAL, ACRES
-  TREE REMOVAL



NOTE: E:\US45 - REMOVAL.dwg (Sheet)
 FILE NAME: L:\DOT\1906610\00_10\Drawn\Roadway\CADD_Sheets\0978716_sht_removal.dgn

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	DRAWN -	REVISED -
PLOT SCALE = 0.16666633' / in.	CHECKED -	REVISED -
PLOT DATE = 11/11/2022	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.P. 332 (U.S. ROUTE 45)
 REMOVAL PLAN

SCALE: 1" = 20' SHEET 7 OF 7 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	29B-3; 29B-4	SALINE	150	60
CONTRACT NO. 78716				

Long Section Number

BENCHMARK:

Chiseled "□" on top of wingwall of NE corner of Structure 083-0001 along US 45, Sta. 722+20, Offset 17' Rt., Elevation 370.51.

SALVAGE:

None

EXISTING STRUCTURE:

SN 083-0001 was originally built in 1953 under SB1-1, Section 29-B-Y. The structure is a 3-span continuous bridge with stub abutments and an overall length of 221'-11" from back to back of abutments. The superstructure consists of a 7" thick slab supported on haunched reinforced concrete T-beams. The width of the structure is 33'-8" out to out of deck. The piers are reinforced concrete solid wall piers on treated timber piles. The structure is to be removed and replaced using stage construction to maintain one lane of traffic open at all times.

DESIGN SPECIFICATIONS:

2020 AASHTO LRFD Bridge Design Specifications, 9th Edition.

LOADING HL-93:

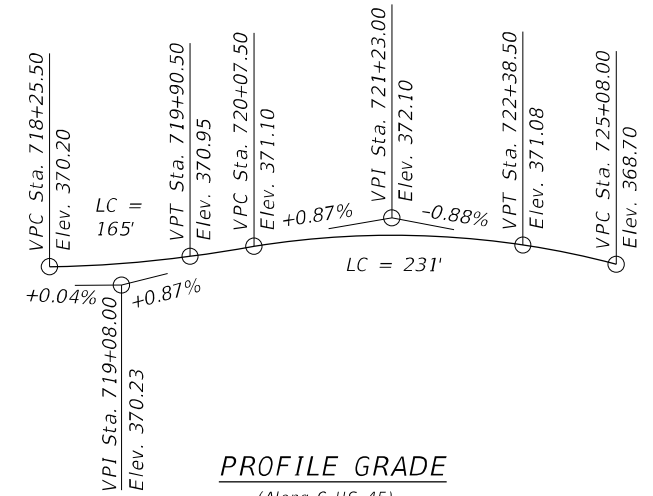
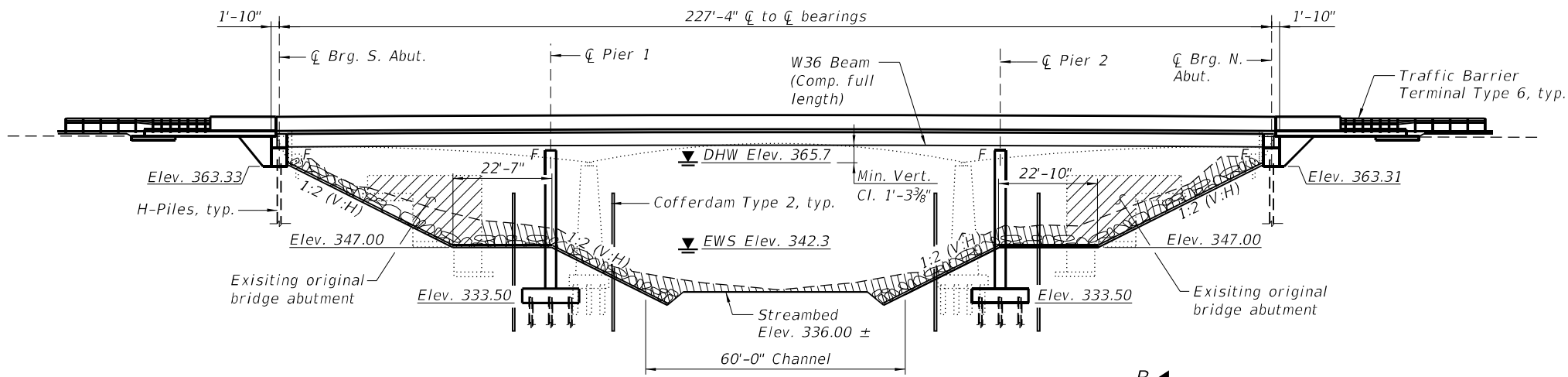
Allow 50 #/sq.ft. for future wearing surface.

SEISMIC DATA:

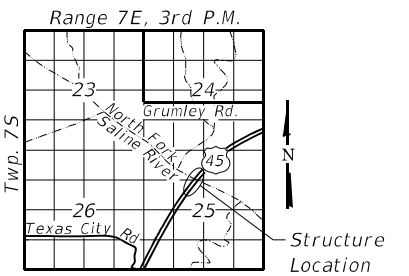
Seismic Performance Zone (SPZ) = 3
Design Spectral Acceleration at 1.0 sec. (SD1) = 0.319g
Design Spectral Acceleration at 2.0 sec. (SD5) = 0.755g
Soil Site Class = D

DESIGN STRESSES:

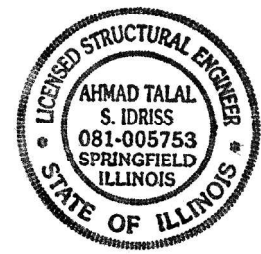
FIELD UNITS
f'c = 4,000 psi (superstructure)
f'c = 3,500 psi
fy = 60,000 psi (reinforcement)
fy = 50,000 psi (M270 Grade 50W)



PROFILE GRADE
(Along CL US 45)



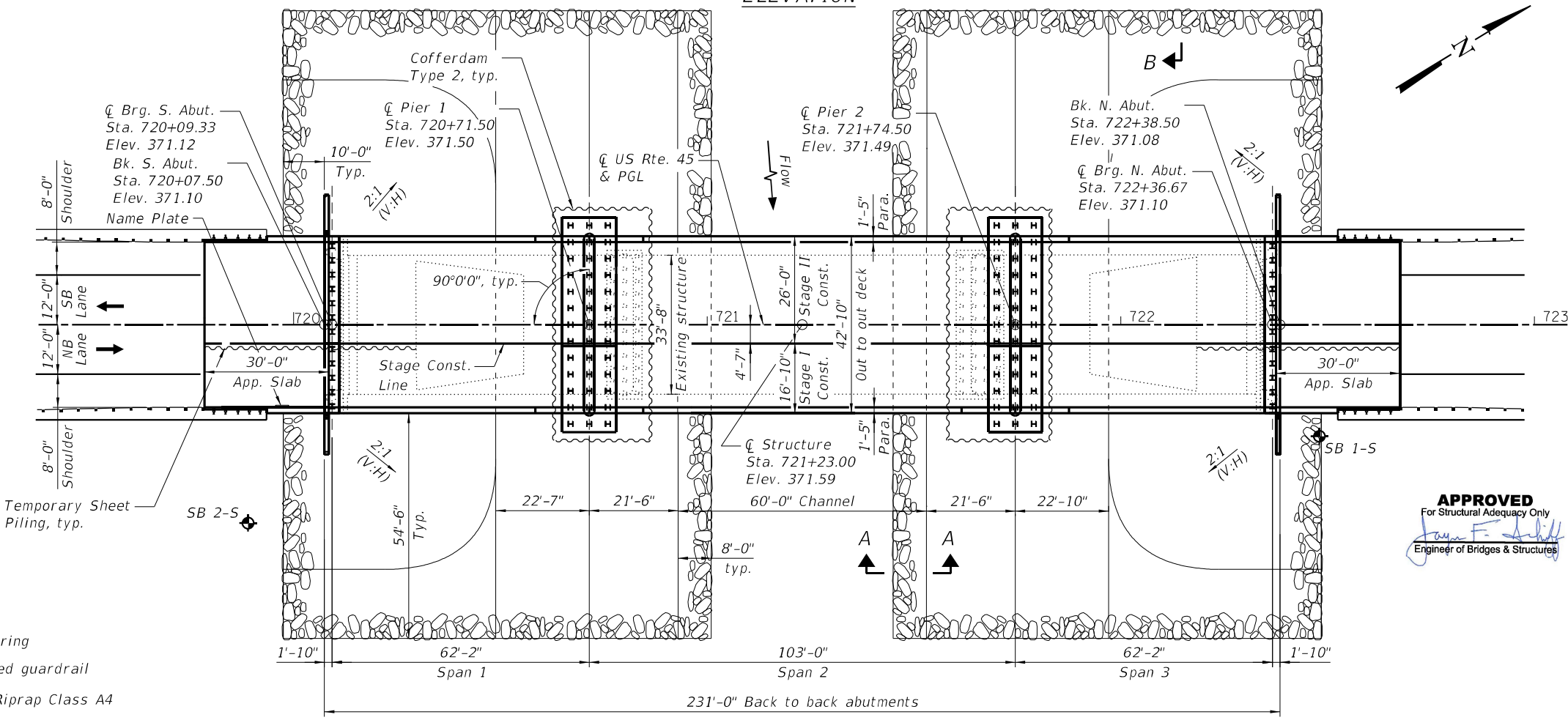
LOCATION SKETCH



Ahmad T. Idress
EXP. 11-30-2024

"I certify that to the best of my knowledge, information and belief, this design is structurally adequate for the design loading shown on the plans. The design is an economical one for the style of the structure and complies with the requirements of the current Design Specifications listed."

APPROVED
For Structural Adequacy Only
Jay F. Jelliff
Engineer of Bridges & Structures



PLAN

Notes:
1. See Sheet 2 of 25 for Section A-A and B-B.
2. See Roadway Plans for Channel Excavation limits and quantity.

LEGEND

- Soil Boring
- Proposed guardrail
- Stone Riprap Class A4
- Concrete Removal
- Channel Excavation (See Roadway Plans)



USER NAME = Derek Cochran	DESIGNED - DH	REVISED -
PLOT SCALE = N/A	DRAWN - DH	REVISED -
PLOT DATE = 12/8/2022 (2:54:33 PM)	CHECKED - ATI	REVISED -
	DATE - 05/19/2022	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**GENERAL PLAN AND ELEVATION
SN 083-0073**

SCALE: SHEET 1 OF 25 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	29B-3	SALINE	150	61
				CONTRACT NO. 78716
ILLINOIS FED. AID PROJECT				

FILE NAME: L:\DOT\19066510\VO_10\DrawStructures\CADD_Sheets\SN_083-0073\083-0073_01_CPE.dgn

INDEX OF SHEETS

- 1 General Plan and Elevation
- 2 General Data and Bill of Materials
- 3 Stage Construction Details
- 4 Temporary Concrete Barrier
- 5 Removal Details and Footing Plan
- 6 Deck Elevations - I
- 7 Deck Elevations - II
- 8 Approach Slab Elevations
- 9 Superstructure - I
- 10 Superstructure - II
- 11 Superstructure Details - I
- 12 Superstructure Details - II
- 13 Diaphragm Details
- 14 Bridge Approach Slab Plan
- 15 Bridge Approach Slab Details
- 16 Framing Plan
- 17 Beam and Steel Details
- 18 Moment and Reaction Tables
- 19 North and South Abutment
- 20 Pier 1 and Pier 2
- 21 Pile Details
- 22 Bar Splicer Assembly Details
- 23 Soil Boring Log - I
- 24 Soil Boring Log - II
- 25 Soil Boring Log - III

GENERAL NOTES

1. Fasteners shall be ASTM F3125 Grade A325 Type 1, mechanically galvanized bolts in painted areas and ASTM F3125 Grade A325 Type 3 in unpainted areas. Bolts 3/4 in. Ø, holes 1 1/16 in. Ø, unless otherwise noted.
2. Calculated weight of Structural Steel = 393,262.
3. All structural steel shall be AASHTO M270 Grade 50W except bearings which shall be AASHTO M270 Grade 50.
4. No field welding is permitted except as specified in the contract documents.
5. Reinforcement bars designated (E) shall be epoxy coated.
6. Bearing seat surfaces shall be constructed or adjusted to the designated elevations within a tolerance of 1/8 inch (0.01 ft.). Adjustment shall be made either by grinding the surface or by shimming the bearings.
7. Structural steel shall only be painted for a distance equal to the depth of embedment into the concrete cap plus 1'-6" inches. Painted areas shall be primed in the shop with a Department approved zinc rich primer. Field painting will not be required.
8. Layout of the slope protection system may be varied to suit ground conditions in the field as directed by the Engineer.
9. Bridge seat reinforcement shall be carefully placed as detailed in the plans to avoid interference with drilling holes for anchor rods. The beams shall be erected in final position prior to drilling holes for and placing anchor rods.
10. No construction joint except those shown on the plans will be allowed unless approved by the engineer.
11. It shall be the Contractor's responsibility to verify the location of utilities prior to starting construction. Contact J.U.L.I.E., 800-892-0123.
12. The Contractor shall obtain a construction permit from the Illinois Department of Natural Resources (IDNR), Office of Water Resources for any temporary construction activity placed in the water except cofferdams. This shall include the placement of material for run-arounds, causeways, etc. Any permit application by the Contractor shall refer to the IDNR 3704 Floodway Construction permit number allowing permanent construction as shown in the contract plans.
13. Slipforming of the parapets is not allowed.
14. The cost of bridge rail removal is included in Removal of Existing Structures No. 1.

TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Stone Riprap, Class A4	Sq Yd		3,447	3,447
Filter Fabric	Sq Yd		3,447	3,447
Removal of Existing Structures No. 1	Each		1	1
Concrete Removal	Cu Yd		117	117
Structure Excavation	Cu Yd		214	214
Cofferdam Excavation	Cu Yd		777	777
Cofferdam (Type 2) (Location - 1)	Each		2	2
Concrete Structures	Cu Yd	25.3	459.1	484.4
Concrete Superstructure	Cu Yd	357.1		357.1
Bridge Deck Grooving	Sq Yd	1,220		1,220
Protective Coat	Sq Yd	1,547		1,547
Concrete Superstructure (Approach Slab)	Cu Yd	116.8		116.8
Furnishing and Erecting Structural Steel	L Sum	0.54		0.54
Stud Shear Connectors	Each	4,725		4,725
Reinforcement Bars, Epoxy Coated	Pound	135,160	87,940	223,100
Bar Splicers	Each	991	280	1,271
Mechanical Splicers	Each		580	580
Furnishing Steel Piles HP14x89	Foot		8,369	8,369
Driving Piles	Foot		8,369	8,369
Test Pile Steel HP14x89	Each		4	4
Name Plates	Each	1		1
Anchor Bolts, 1"	Each	56		56
Temporary Sheet Piling	Sq Ft		686	686
Granular Backfill for Structures	Cu Yd		119	119
Geocomposite Wall Drain	Sq Yd		68	68
Pipe Underdrains for Structures 4"	Foot		106	106

WATERWAY INFORMATION TABLE

Flood		Freq. Yr.	Ex. Q C.F.S.	Pr. Q C.F.S.	Opening Sq. Ft.		Nat. H.W.E.	Head - Ft.		Headwater El.	
					Exist.	Prop.		Exist.	Prop.	Exist.	Prop.
Exist. Low Grade Elev. 365.48 ft. @ Sta. 753+00											
Prop. Low Grade Elev. 365.48 ft. @ Sta. 753+00											
Drainage Area = 250 sq. mi.											
Main Channel			6685	5690	2703	3833					
Relief Structure	10		3315	4410	2227	2838	363.3	0.3	0.1	363.6	363.4
Total			10100	10100	4930	6671					
Design											
Main Channel		50	10550	8280	3178	4258	365.7	0.2	0.2	365.9	365.9
Relief Structure			4350	6820	2735	3404					
Total			15100	15100	5913	7662					
Base											
Main Channel		100	12970	9550	3293	4428	366.5	0.2	0.2	366.7	366.0
Relief Structure			4330	7650	2878	3597					
Total			17200	17200	6171	8025					
Overtop. Existing											
Main Channel		200	10190	10620	3327	4524	367.2	0.2	0.1	367.4	367.3
Relief Structure			9110	8780	2974	3703					
Total			19400	19400	6301	8227					
Scour Design Check											
Main Channel		200	10620	8495	3194	4276	365.8	0.2	0.2	366.0	366.0
Relief Structure			4680	6805	2753	3428					
Total			15300	15300	5947	7704					
Max. Calc. OVERTOPPING OCCURS ABOVE THE 500 YR. FLOOD											
Main Channel		500	15090	12275	3327	4524	368.1	0.2	0.1	368.3	368.2
Relief Structure			7210	10225	2991	3703					
Total			22500	22500	6318	8227					

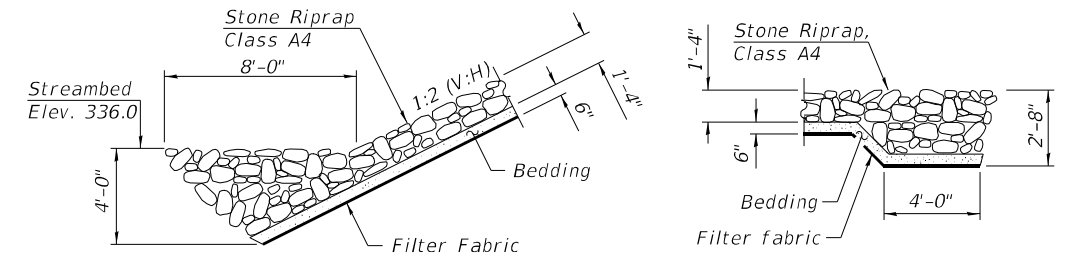
10 Year velocity through existing bridge = 2.47 ft/s
 10 Year velocity through proposed bridge = 1.48 ft/s
 All-time HWE and Date: HWE = 366.8' on 5/6/2011

STATION 721+23.00
 BUILT 20 BY
 STATE OF ILLINOIS
 F.A.P. RT. 332 SEC. 29B-3
 LOADING HL-93
 STRUCTURE NO. 083-0073

NAME PLATE
 See Std. 515001

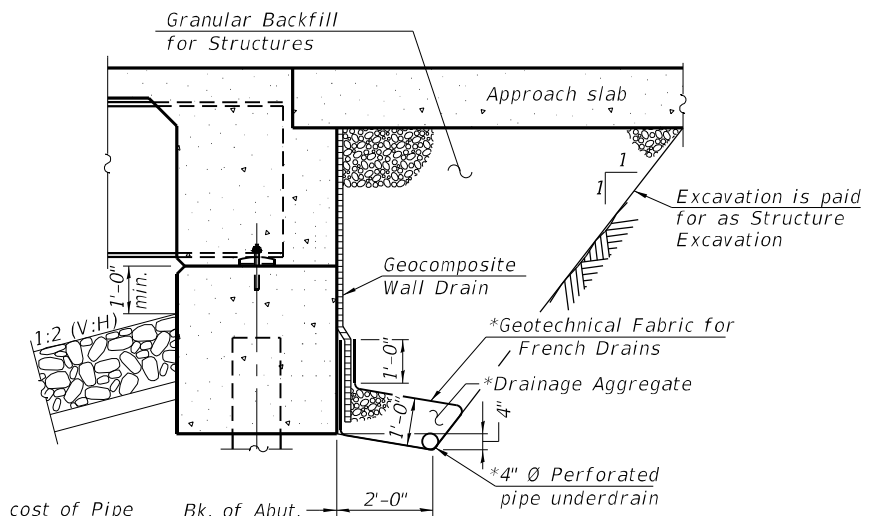
DESIGN SCOUR ELEVATION TABLE

Event/Limit State	South Abut.	Pier 1	Pier 2	North Abut.	Item 113
Q100	363.33	318.75	317.12	363.31	5
Q200	363.33	315.17	312.74	363.31	
Design	363.33	318.75	317.12	363.31	
Check	363.33	315.17	312.74	363.31	



SECTION A-A

SECTION B-B



SECTION THRU ABUT.

(Showing backfill and drainage details)



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PLOT SCALE = N/A	DRAWN - DH	REVISED -
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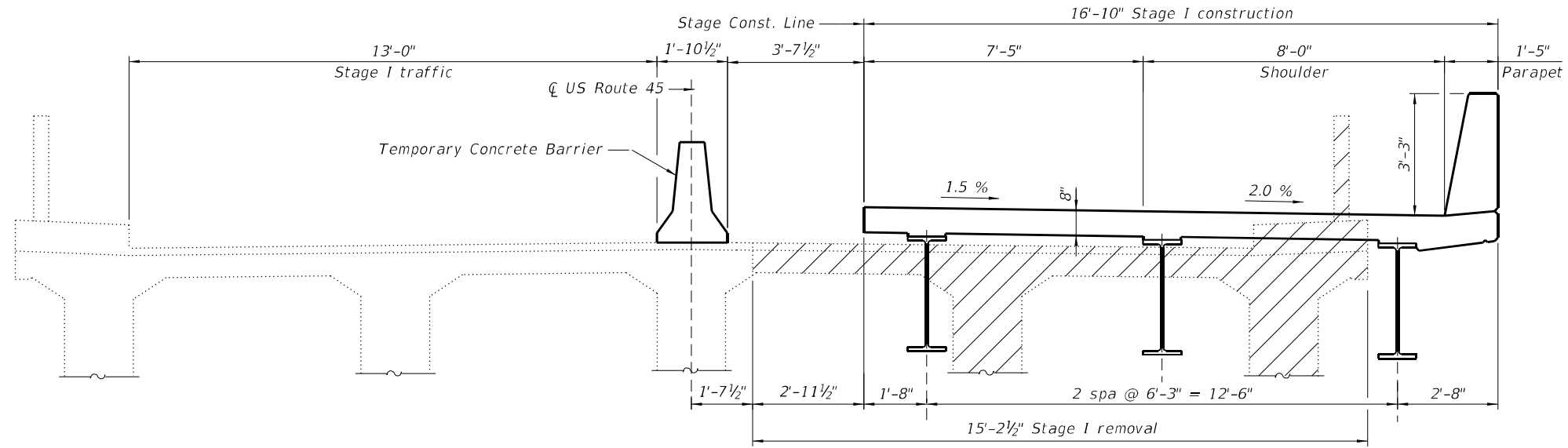
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**GENERAL DATA AND BILL OF MATERIAL
 SN 083-0073**

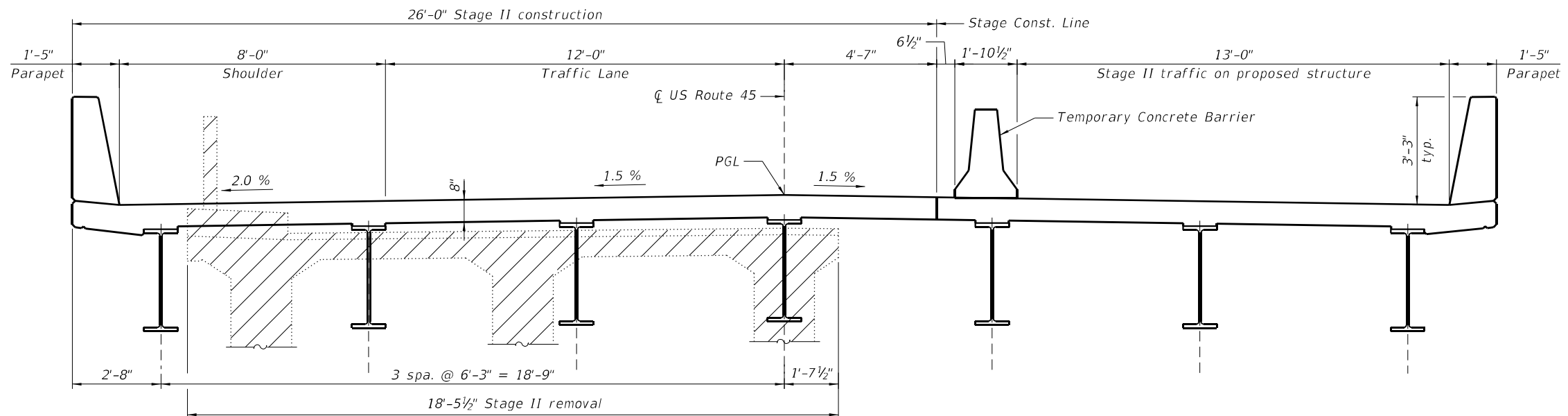
SCALE: SHEET 2 OF 25 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	29B-3	SALINE	150	62
CONTRACT NO. 78716				
ILLINOIS FED. AID PROJECT				

FILE NAME: L:\DOT\190665\10\VO_10\Draws\Structures\CADD_Sheets\SN_083-0073\2022\78716\SN_083-0073_02_General Data & BOM.dwg

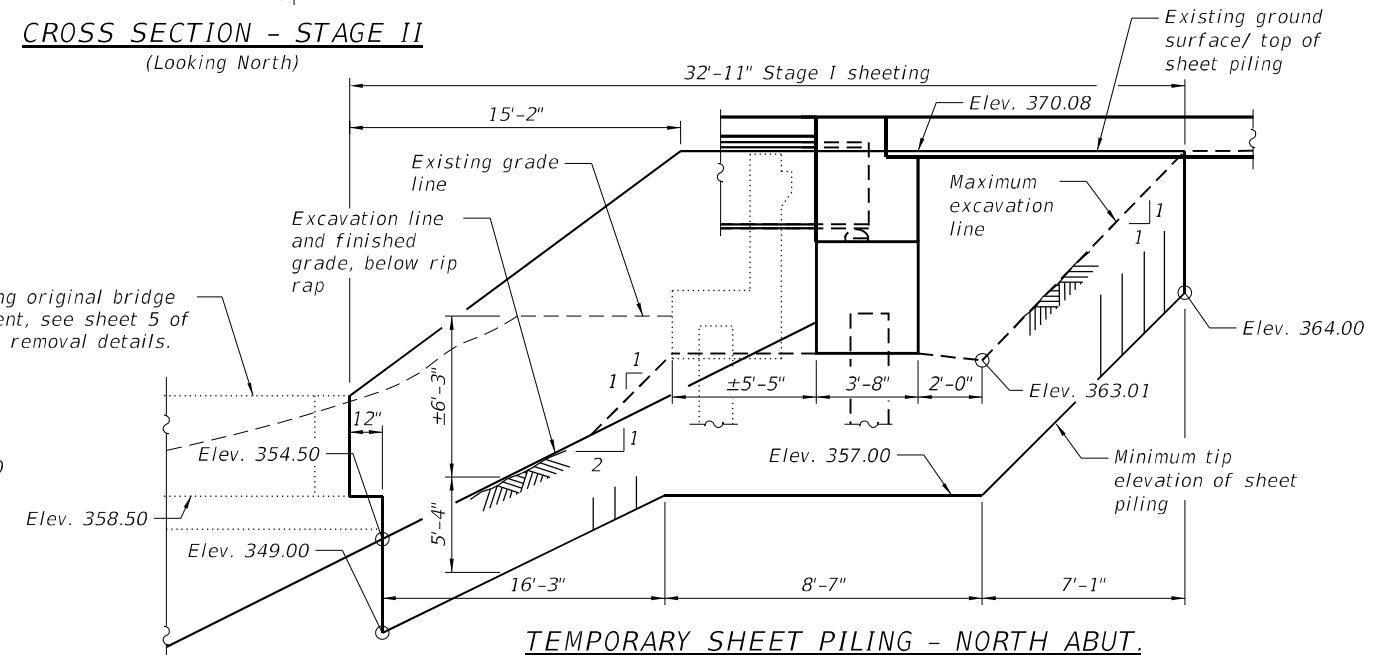
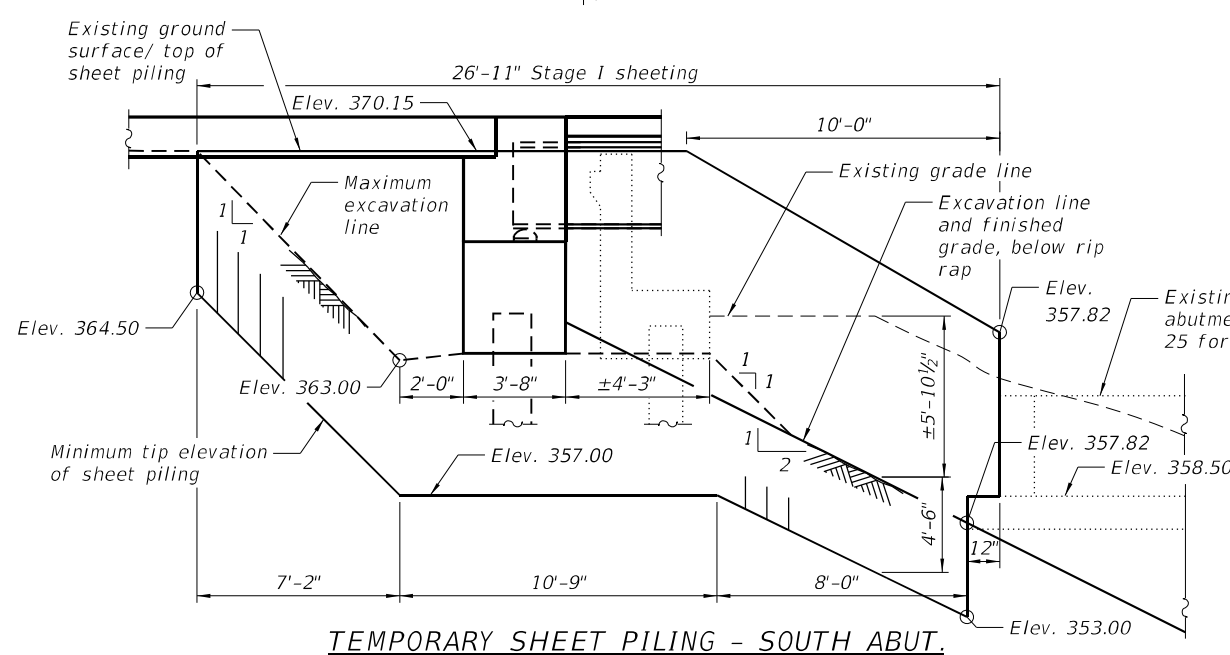


CROSS SECTION - STAGE I
(Looking North)

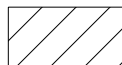


CROSS SECTION - STAGE II
(Looking North)

Min. Section Modulus:
3.6 in.³/ft (S. Abut.)
3.4 in.³/ft (N. Abut.)



LEGEND

 Existing structure removal

- Notes:**
1. If the Contractor chooses to alter the temporary cantilevered 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.
 2. See sheet 4 of 25 for Temporary Concrete Barrier details.

FILE NAME: L:\DOT\190665\10\VO_10\DrawStructures\CADD_Sheets\SN_083-0073\083-0073_03_SouthAbut.dwg



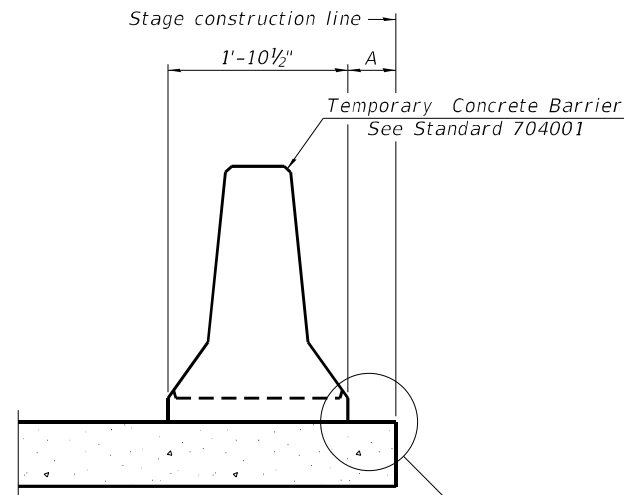
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	DATE - 05/19/2022	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**STAGE CONSTRUCTION DETAILS
SN 083-0073**

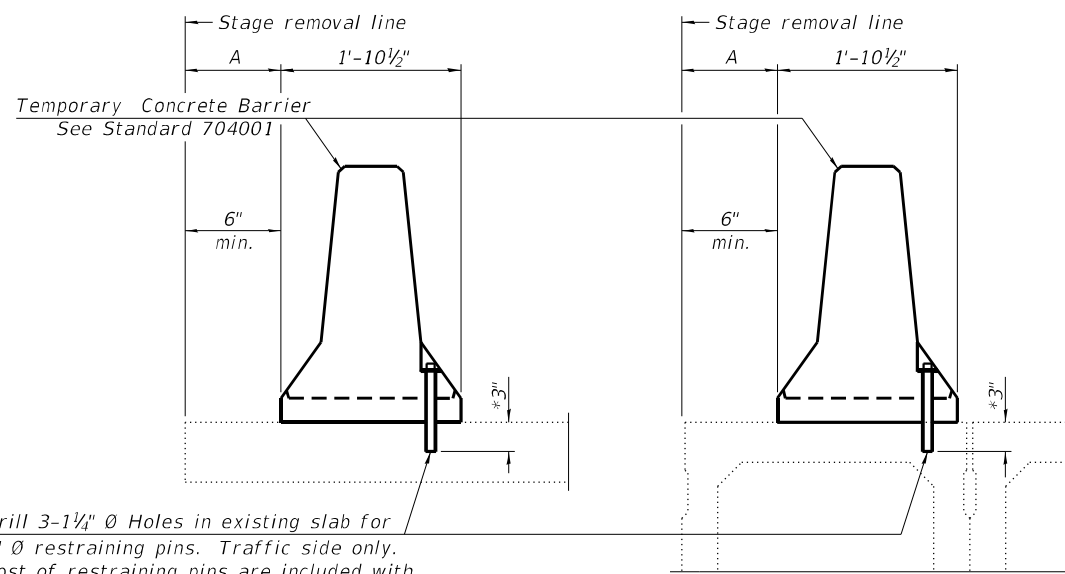
SCALE: SHEET 3 OF 25 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	29B-3	SALINE	150	63
CONTRACT NO. 78716				
ILLINOIS FED. AID PROJECT				



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

NEW SLAB OR NEW DECK BEAM

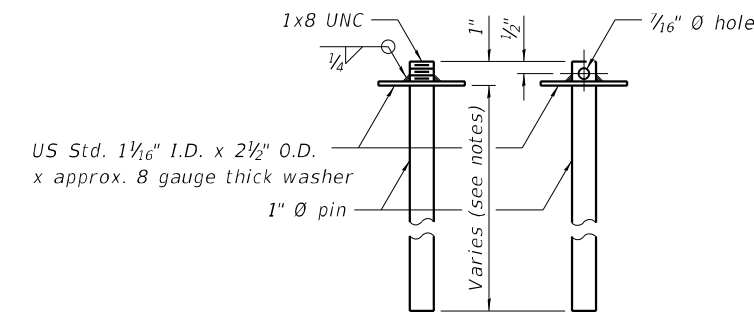


Drill 3-1/4" Ø Holes in existing slab for 1" Ø restraining pins. Traffic side only. Cost of restraining pins are included with Temporary Concrete Barrier. No restraint is required when "A" is greater than 3'-1".

EXISTING SLAB

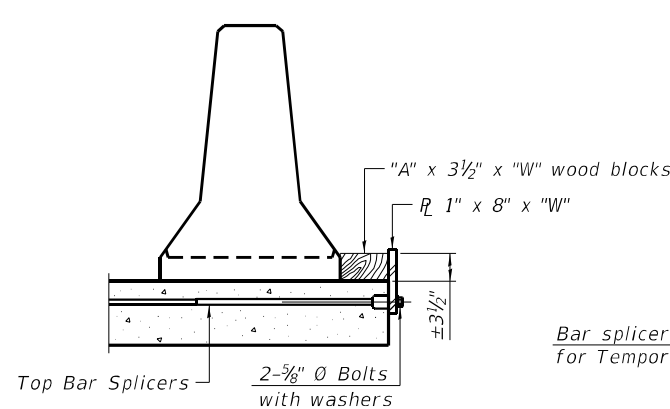
* When hot-mix asphalt wearing surface is present, embedment shall be 3" plus the wearing surface depth.

EXISTING DECK BEAM

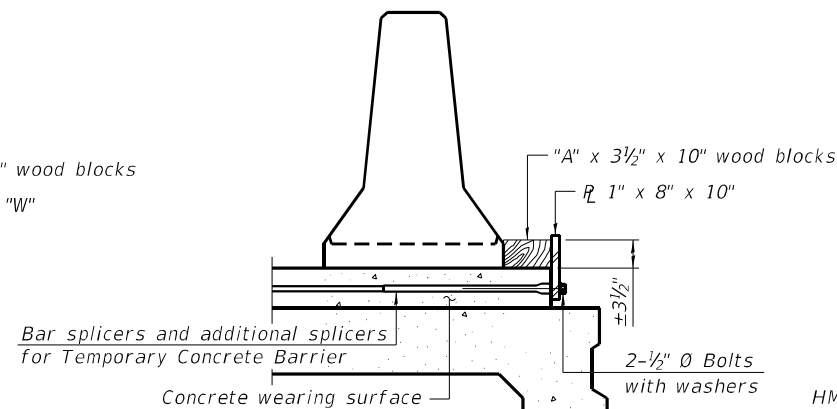


RESTRAINING PIN

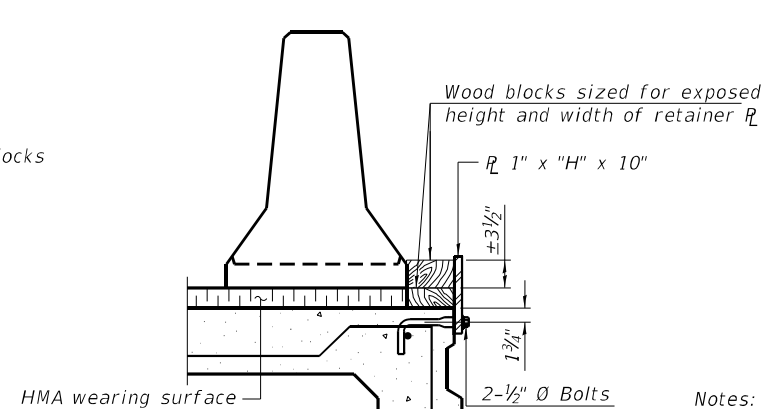
SECTIONS THRU SLAB OR DECK BEAM



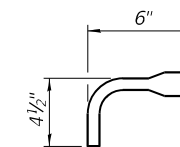
DETAIL I



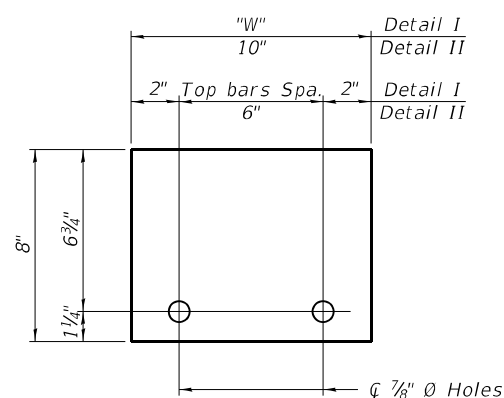
DETAIL II



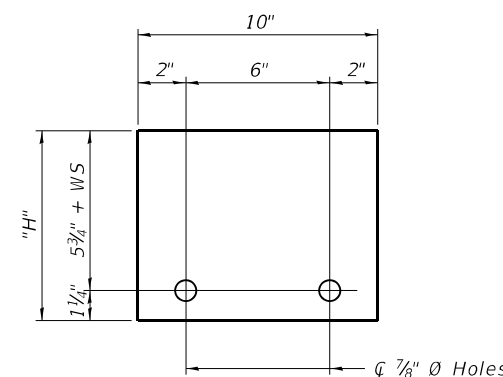
DETAIL III



BAR SPLICER FOR #4 BAR - DETAIL III



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



STEEL RETAINER R 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 $\frac{1}{2}$ 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.

RAILING CRITERIA

NCHRP 350 Test Level	3
Railing Weight (plf)	440

R-27 10-12-2021



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	DRAWN - MAC	REVISED -
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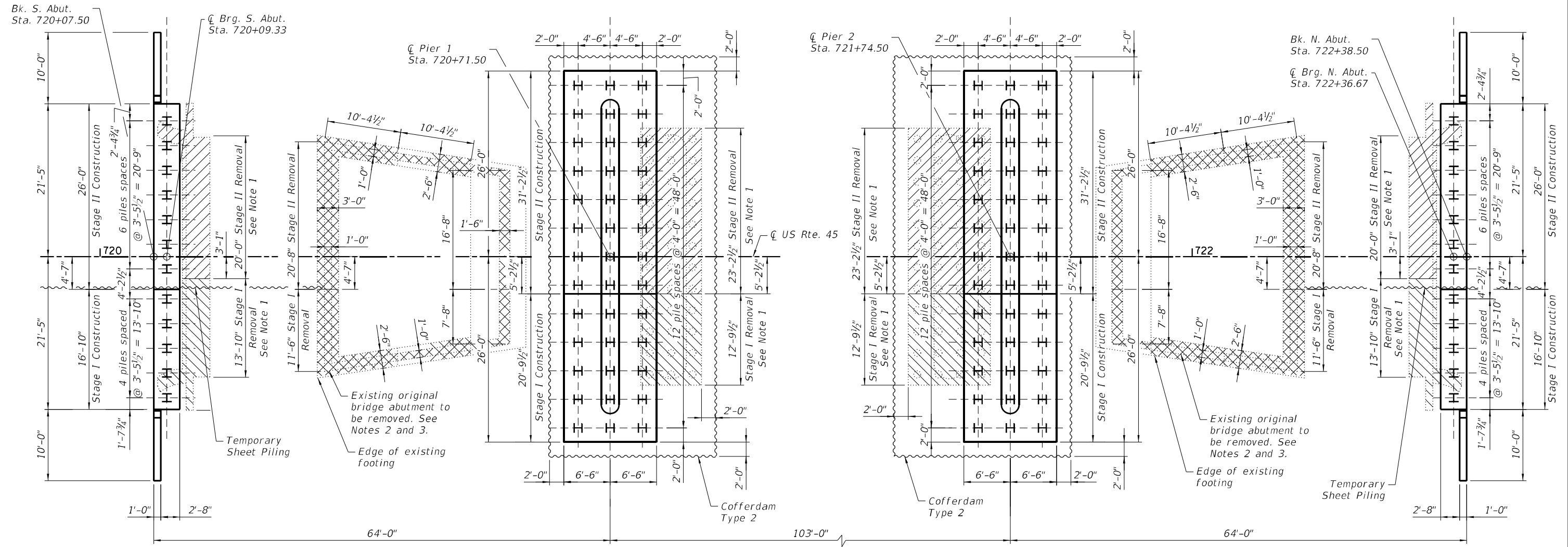
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY CONCRETE BARRIER
SN 083-0073

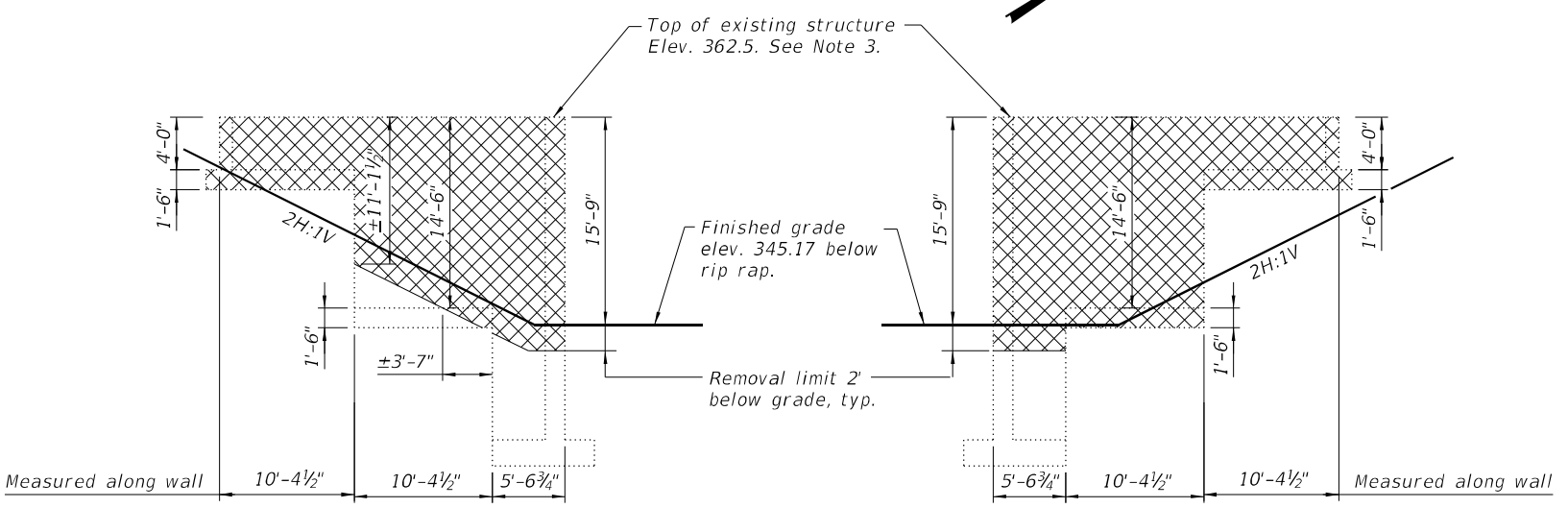
SCALE: SHEET 4 OF 25 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	29B-3	SALINE	150	64
CONTRACT NO. 78716				
ILLINOIS FED. AID PROJECT				

FILE NAME: L:\DOT\190665\0\VO_10\DrawStructures\CADD_Sheets\SN_083-0073\083-0073_04_Temporary Concrete Barrier.dgn



FOOTING LAYOUT PLAN



EXISTING SOUTH ORIGINAL BRIDGE ABUTMENT ELEVATION
(Looking west)

EXISTING NORTH ORIGINAL BRIDGE ABUTMENT ELEVATION
(Looking west)

LEGEND

- Stage I abutment and pier removal
- Stage II abutment and pier removal
- Concrete Removal for existing original bridge abutment

- Notes:**
1. Cost of existing abutment and pier removal included in payment for Removal of Existing Structures No. 1.
 2. Cost of existing original bridge abutments removal included in payment for Concrete Removal.
 3. Plan dimensions and details relative to existing structure have been taken from existing plans and are subject to nominal construction variations. It shall be the contractor's responsibility to verify such dimensions and details in the field and make necessary approved adjustments prior to construction.
 4. See sheet 3 of 25 for Temporary Sheet Piling details.
 5. See sheet 3 of 25 for superstructure stage limits.

FILE NAME: L:\DOT\1906610\VO_10\DrawStructures\CADD_Sheets\SN 083-0073\083-0073_05 Removal Details and Footing Plan.dgn



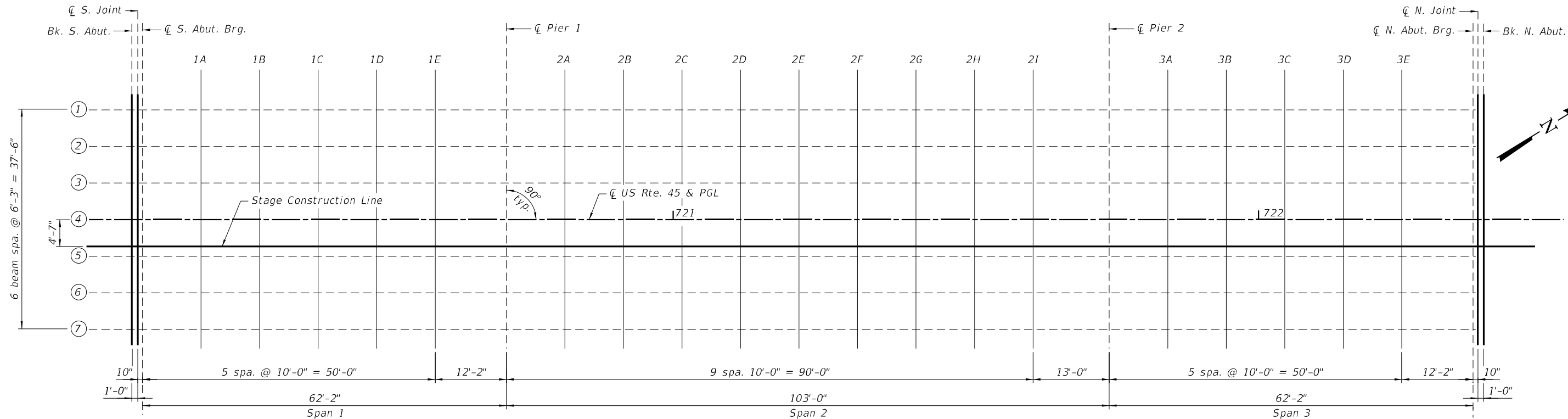
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

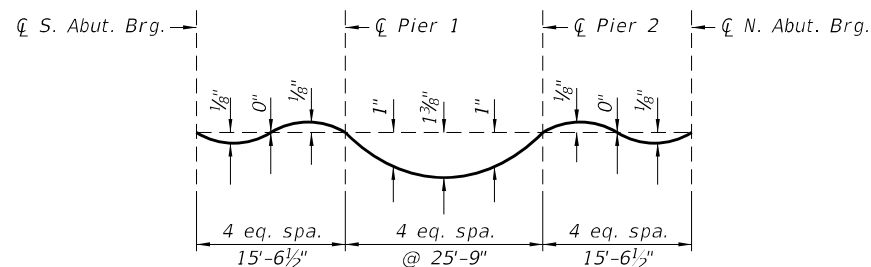
**REMOVAL DETAILS AND FOOTING PLAN
SN 083-0073**

SCALE: SHEET 5 OF 25 SHEETS STA. TO STA.

F.A.P. RTE. 332	SECTION 29B-3	COUNTY SALINE	TOTAL SHEETS 150	SHEET NO. 66
CONTRACT NO. 78716				
ILLINOIS FED. AID PROJECT				



DECK ELEVATION LAYOUT

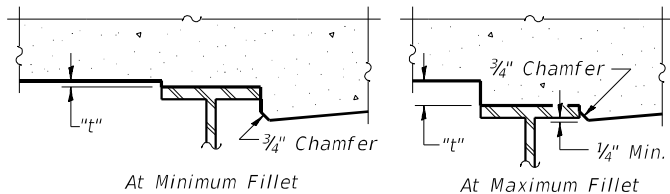


DEAD LOAD DEFLECTION DIAGRAM

(Includes weight of concrete only).

Note:

The above deflections are not to be used in the field if the engineer is working from the grade elevations adjusted for dead load deflections as shown on this sheet and on sheet 7 of 25.



FILLET HEIGHTS

To determine "t": After all structural steel has been erected, elevations of the top flanges of the girders shall be taken at intervals shown above. These elevations subtracted from the "Theoretical Grade Elevations Adjusted for Dead Load Deflection" shown on this sheet and on sheet 7 of 25, minus slab thickness, equals the fillet heights "t" above top flange of girders.

BEAM 1

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. S. Abut.	720+07.50	18.75	370.79	370.79
CL S. Joint	720+08.50	18.75	370.79	370.79
CL Brg. S. Abut.	720+09.33	18.75	370.80	370.80
1A	720+19.33	18.75	370.88	370.88
1B	720+29.33	18.75	370.96	370.97
1C	720+39.33	18.75	371.02	371.02
1D	720+49.33	18.75	371.08	371.08
1E	720+59.33	18.75	371.13	371.12
CL Pier 1	720+71.50	18.75	371.18	371.18
2A	720+81.50	18.75	371.22	371.24
2C	721+01.50	18.75	371.26	371.34
2D	721+11.50	18.75	371.28	371.38
2E	721+21.50	18.75	371.28	371.39
2F	721+31.50	18.75	371.28	371.39
2G	721+41.50	18.75	371.27	371.36
2H	721+51.50	18.75	371.25	371.31
2I	721+61.50	18.75	371.22	371.25
CL Pier 2	721+74.50	18.75	371.18	371.18
3A	721+84.50	18.75	371.13	371.12
3B	721+94.50	18.75	371.08	371.08
3C	722+04.50	18.75	371.02	371.02
3D	722+14.50	18.75	370.96	370.97
3E	722+24.50	18.75	370.88	370.89
CL Brg. N. Abut.	722+36.67	18.75	370.78	370.78
CL N. Joint	722+37.50	18.75	370.77	370.77
Bk. N. Abut.	722+38.50	18.75	370.77	370.77

BEAM 2

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. S. Abut.	720+07.50	12.50	370.91	370.91
CL S. Joint	720+08.50	12.50	370.92	370.92
CL Brg. S. Abut.	720+09.33	12.50	370.93	370.93
1A	720+19.33	12.50	371.01	371.01
1B	720+29.33	12.50	371.08	371.09
1C	720+39.33	12.50	371.15	371.15
1D	720+49.33	12.50	371.21	371.21
1E	720+59.33	12.50	371.26	371.25
CL Pier 1	720+71.50	12.50	371.31	371.31
2A	720+81.50	12.50	371.34	371.36
2C	721+01.50	12.50	371.39	371.48
2D	721+11.50	12.50	371.40	371.51
2E	721+21.50	12.50	371.41	371.53
2F	721+31.50	12.50	371.40	371.51
2G	721+41.50	12.50	371.39	371.49
2H	721+51.50	12.50	371.37	371.44
2I	721+61.50	12.50	371.35	371.38
CL Pier 2	721+74.50	12.50	371.30	371.30
3A	721+84.50	12.50	371.26	371.25
3B	721+94.50	12.50	371.21	371.21
3C	722+04.50	12.50	371.15	371.15
3D	722+14.50	12.50	371.08	371.09
3E	722+24.50	12.50	371.01	371.02
CL Brg. N. Abut.	722+36.67	12.50	370.91	370.91
CL N. Joint	722+37.50	12.50	370.90	370.90
Bk. N. Abut.	722+38.50	12.50	370.89	370.89

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DEPARTMENT OF TRANSPORTATION

DECK ELEVATIONS - I
SN 083-0073

SCALE: SHEET 6 OF 25 SHEETS STA. TO STA.

F.A.P. RTE. 332	SECTION 29B-3	COUNTY SALINE	TOTAL SHEETS 150	SHEET NO. 66
CONTRACT NO. 78716				
ILLINOIS FED. AID PROJECT				

BEAM 3

Table with 5 columns: Location, Station, Offset, Theoretical Grade Elevations, Theoretical Grade Elevations Adjusted For Dead Load Deflection. Rows include Bk. S. Abut., CL S. Joint, CL Brg. S. Abut., CL Pier 1, CL Pier 2, CL Brg. N. Abut., CL N. Joint, Bk. N. Abut.

BEAM 4, CL US RTE. 45, & PGL

Table with 5 columns: Location, Station, Offset, Theoretical Grade Elevations, Theoretical Grade Elevations Adjusted For Dead Load Deflection. Rows include Bk. S. Abut., CL S. Joint, CL Brg. S. Abut., CL Pier 1, CL Pier 2, CL Brg. N. Abut., CL N. Joint, Bk. N. Abut.

STAGE CONSTRUCTION LINE

Table with 5 columns: Location, Station, Offset, Theoretical Grade Elevations, Theoretical Grade Elevations Adjusted For Dead Load Deflection. Rows include Bk. S. Abut., CL S. Joint, CL Brg. S. Abut., CL Pier 1, CL Pier 2, CL Brg. N. Abut., CL N. Joint, Bk. N. Abut.

BEAM 5

Table with 5 columns: Location, Station, Offset, Theoretical Grade Elevations, Theoretical Grade Elevations Adjusted For Dead Load Deflection. Rows include Bk. S. Abut., CL S. Joint, CL Brg. S. Abut., CL Pier 1, CL Pier 2, CL Brg. N. Abut., CL N. Joint, Bk. N. Abut.

BEAM 6

Table with 5 columns: Location, Station, Offset, Theoretical Grade Elevations, Theoretical Grade Elevations Adjusted For Dead Load Deflection. Rows include Bk. S. Abut., CL S. Joint, CL Brg. S. Abut., CL Pier 1, CL Pier 2, CL Brg. N. Abut., CL N. Joint, Bk. N. Abut.

BEAM 7

Table with 5 columns: Location, Station, Offset, Theoretical Grade Elevations, Theoretical Grade Elevations Adjusted For Dead Load Deflection. Rows include Bk. S. Abut., CL S. Joint, CL Brg. S. Abut., CL Pier 1, CL Pier 2, CL Brg. N. Abut., CL N. Joint, Bk. N. Abut.

FILE NAME: L:\DOT\190665\190665\190665\190665\CADD_Sheets\SN_083-0073\Deck Elevations - I.dgn



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Table with 4 columns: USER NAME = Denise Herrera, DESIGNED - DH, DRAWN - DH, CHECKED - ATI, PLOT DATE = 5/2/2022 3:16:46 PM, DATE - 05/03/2022

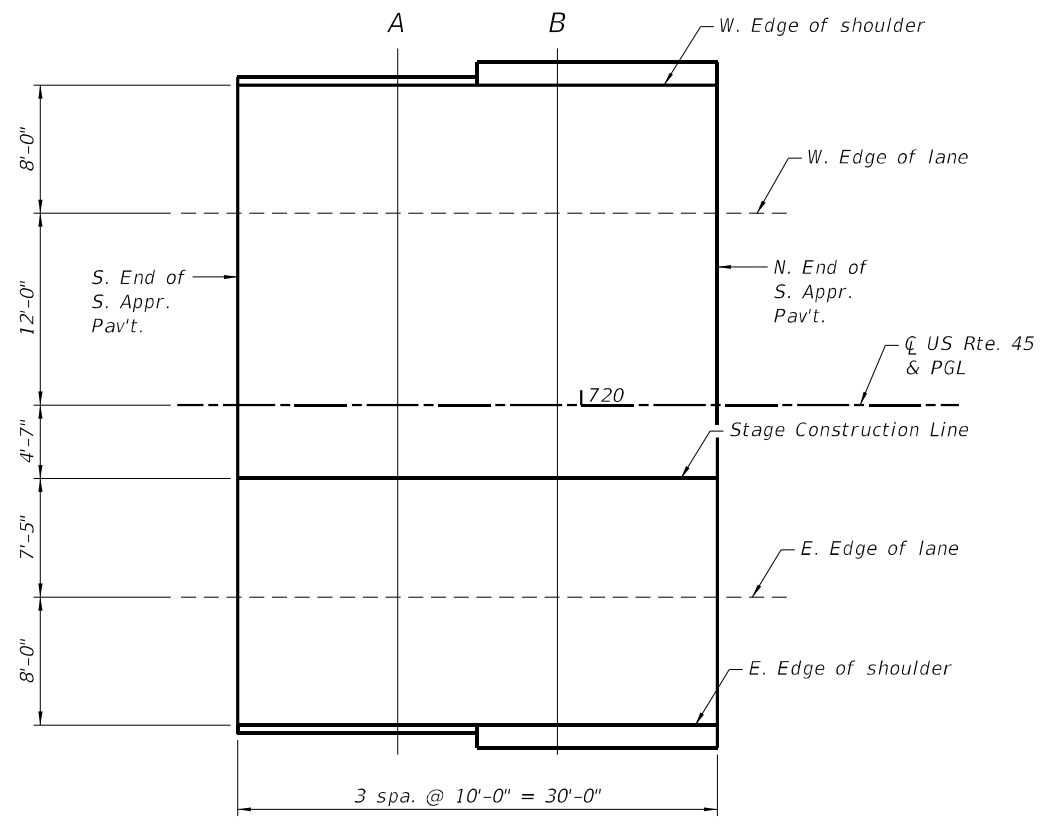
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STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

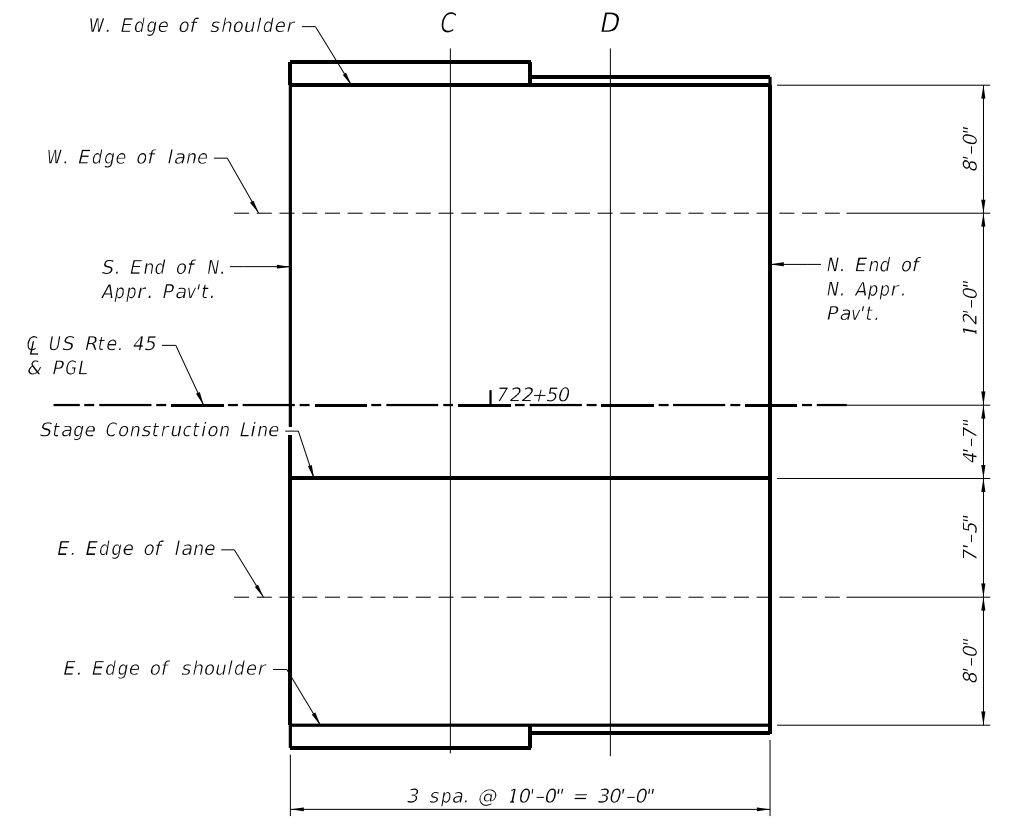
DECK ELEVATIONS - II SN 083-0073

SCALE: SHEET 7 OF 25 SHEETS STA. TO STA.

Table with 5 columns: F.A.P. RTE. 332, SECTION 29B-3, COUNTY SALINE, TOTAL SHEETS 150, SHEET NO. 67, CONTRACT NO. 78716, ILLINOIS FED. AID PROJECT



SOUTH APPROACH SLAB PLAN



NORTH APPROACH SLAB PLAN

W. EDGE OF SHOULDER

Location	Sta.	Offset (ft)	Theoretical Grade Elevation
S. End S. Appr. Pav't.	719+78.50	-20.00	370.51
A	719+88.50	-20.00	370.59
B	719+98.50	-20.00	370.68
N. End S. Appr. Pav't.	720+08.50	-20.00	370.77

STAGE CONSTRUCTION LINE

Location	Sta.	Offset (ft)	Theoretical Grade Elevation
S. End S. Appr. Pav't.	719+78.50	4.58	370.78
A	719+88.50	4.58	370.86
B	719+98.50	4.58	370.95
N. End S. Appr. Pav't.	720+08.50	4.58	371.04

W. EDGE OF SHOULDER

Location	Sta.	Offset (ft)	Theoretical Grade Elevation
S. End N. Appr. Pav't.	722+37.50	-20.00	370.75
C	722+47.50	-20.00	370.66
D	722+57.50	-20.00	370.57
N. End N. Appr. Pav't.	722+67.50	-20.00	370.48

STAGE CONSTRUCTION LINE

Location	Sta.	Offset (ft)	Theoretical Grade Elevation
S. End N. Appr. Pav't.	722+37.50	4.58	371.02
C	722+47.50	4.58	370.93
D	722+57.50	4.58	370.84
N. End N. Appr. Pav't.	722+67.50	4.58	370.75

W. EDGE OF LANE

Location	Sta.	Offset (ft)	Theoretical Grade Elevation
S. End S. Appr. Pav't.	719+78.50	-12.00	370.67
A	719+88.50	-12.00	370.75
B	719+98.50	-12.00	370.84
N. End S. Appr. Pav't.	720+08.50	-12.00	370.93

E. EDGE OF LANE

Location	Sta.	Offset (ft)	Theoretical Grade Elevation
S. End S. Appr. Pav't.	719+78.50	12.00	370.67
A	719+88.50	12.00	370.75
B	719+98.50	12.00	370.84
N. End S. Appr. Pav't.	720+08.50	12.00	370.93

W. EDGE OF LANE

Location	Sta.	Offset (ft)	Theoretical Grade Elevation
S. End N. Appr. Pav't.	722+37.50	-12.00	370.91
C	722+47.50	-12.00	370.82
D	722+57.50	-12.00	370.73
N. End N. Appr. Pav't.	722+67.50	-12.00	370.64

E. EDGE OF LANE

Location	Sta.	Offset (ft)	Theoretical Grade Elevation
S. End N. Appr. Pav't.	722+37.50	12.00	370.91
C	722+47.50	12.00	370.82
D	722+57.50	12.00	370.73
N. End N. Appr. Pav't.	722+67.50	12.00	370.64

CL US RTE. 45 & PGL

Location	Sta.	Offset (ft)	Theoretical Grade Elevation
S. End S. Appr. Pav't.	719+78.50	0.00	370.85
A	719+88.50	0.00	370.93
B	719+98.50	0.00	371.02
N. End S. Appr. Pav't.	720+08.50	0.00	371.11

E. EDGE OF SHOULDER

Location	Sta.	Offset (ft)	Theoretical Grade Elevation
S. End S. Appr. Pav't.	719+78.50	20.00	370.51
A	719+88.50	20.00	370.59
B	719+98.50	20.00	370.68
N. End S. Appr. Pav't.	720+08.50	20.00	370.77

CL US RTE. 45 & PGL

Location	Sta.	Offset (ft)	Theoretical Grade Elevation
S. End N. Appr. Pav't.	722+37.50	0.00	371.09
C	722+47.50	0.00	371.00
D	722+57.50	0.00	370.91
N. End N. Appr. Pav't.	722+67.50	0.00	370.82

E. EDGE OF SHOULDER

Location	Sta.	Offset (ft)	Theoretical Grade Elevation
S. End N. Appr. Pav't.	722+37.50	20.00	370.75
C	722+47.50	20.00	370.66
D	722+57.50	20.00	370.57
N. End N. Appr. Pav't.	722+67.50	20.00	370.48

FILE NAME: L:\DOT\19065\10\10\Drawn\Structures\CADD_Sheets\SN_083\03\2022\254\66 PM\Approach_Slab_Elevations.dgn



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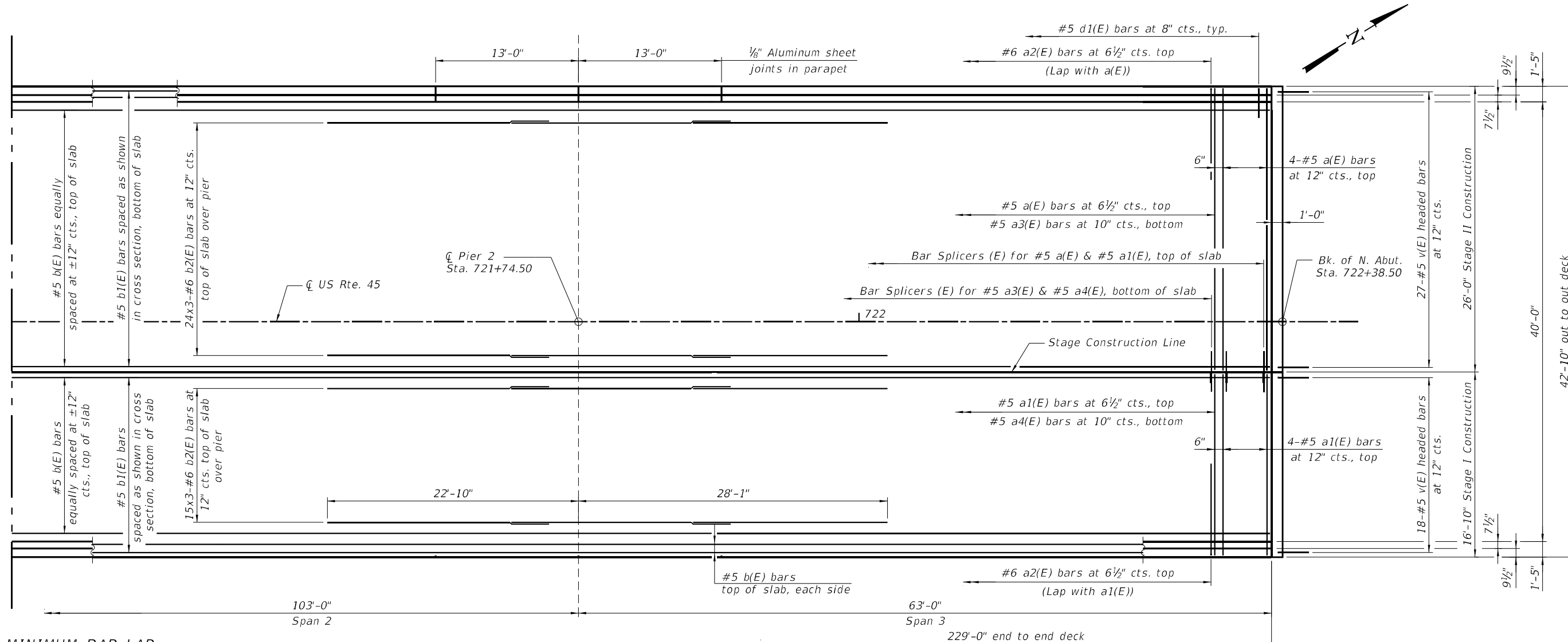
**APPROACH SLAB ELEVATIONS
SN 083-0073**

SCALE: SHEET 8 OF 25 SHEETS STA. TO STA.

F.A.P. RTE. 332	SECTION 29B-3	COUNTY SALINE	TOTAL SHEETS 150	SHEET NO. 68
CONTRACT NO. 78716				
ILLINOIS FED. AID PROJECT				

FILE NAME: L:\DOT\190665\10\10\Drawn\Structures\CADD_Sheets\SN_083-0073\03-0073_10_Superstructure - II.dgn

MATCHLINE STA. 721+23.00



MINIMUM BAR LAP

#5 bar = 3'-6"
#6 bar = 3'-7"

PARTIAL PLAN

- Notes:
- See sheet 11 of 25 for superstructure details and Bill of Material.
 - See sheet 9 of 25 for Cross Section.
 - Bars indicated thus 15x3-#6 etc. indicates 15 lines of bars with 3 lengths per line.



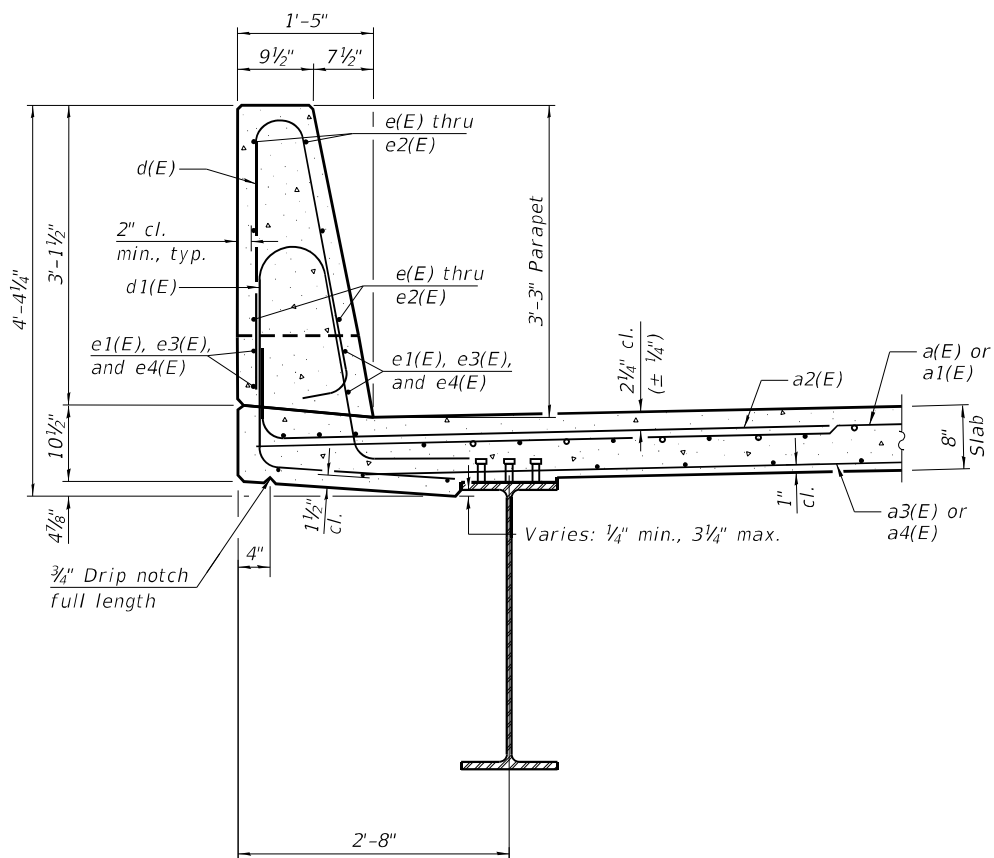
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STATE OF ILLINOIS
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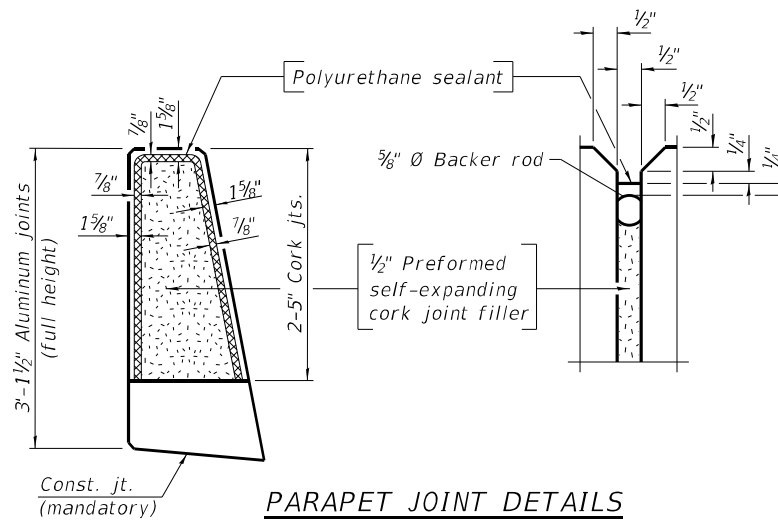
SUPERSTRUCTURE - II
SN 083-0073

SCALE: SHEET 10 OF 25 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	29B-3	SALINE	150	70
CONTRACT NO. 78716				
ILLINOIS FED. AID PROJECT				



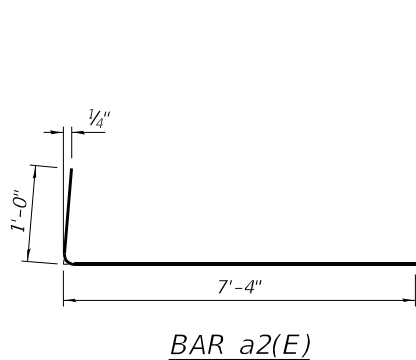
SECTION THRU PARAPET



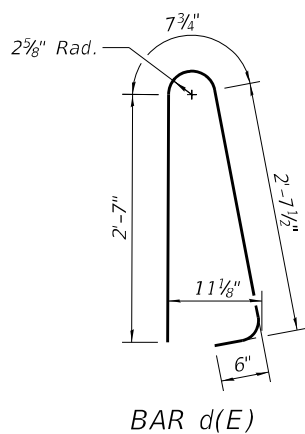
PARAPET JOINT DETAILS

**SUPERSTRUCTURE
BILL OF MATERIAL**

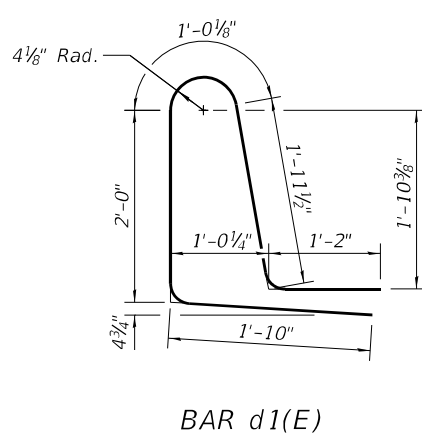
Bar	No.	Size	Length	Shape
a(E)	418	#5	25'-8"	—
a1(E)	418	#5	16'-6"	—
a2(E)	820	#6	8'-4"	—
a3(E)	267	#5	24'-11"	—
a4(E)	267	#5	15'-9"	—
b(E)	423	#5	28'-7"	—
b1(E)	301	#5	35'-8"	—
b2(E)	234	#6	19'-5"	—
d(E)	712	#5	6'-5"	┘
d1(E)	688	#5	8'-0"	┘
e(E)	72	#4	16'-4"	—
e1(E)	80	#4	12'-8"	—
e2(E)	48	#4	18'-11"	—
e3(E)	32	#4	26'-1"	—
e4(E)	16	#4	39'-7"	—
m10(E)	8	#6	25'-8"	—
m11(E)	8	#6	16'-6"	—
m12(E)	6	#6	4'-3"	—
m13(E)	6	#6	1'-4"	—
m14(E)	30	#6	5'-11"	—
m15(E)	12	#6	2'-4"	—
s10(E)	84	#5	7'-4"	┘
s11(E)	84	#5	10'-10"	┘
v(E)	90	#5	3'-1"	┘
Concrete Superstructure			Cu. Yd.	349.3
Bridge Deck Grooving			Sq. Yd.	967
Protective Coat			Sq. Yd.	1,226
Reinforcement Bars, Epoxy Coated			Pound	86,940



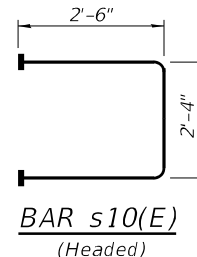
BAR a2(E)



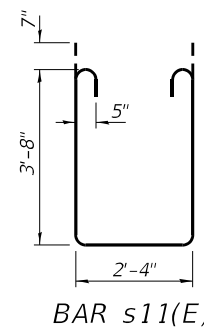
BAR d(E)



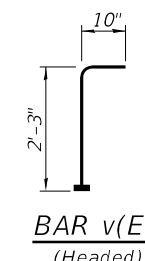
BAR d1(E)



BAR s10(E)
(Headed)



BAR s11(E)



BAR v(E)
(Headed)

- Notes:
- The 1/8" aluminum sheet shall be ASTM B 209 alloy 3003-H14 and coated to minimize reaction with wet concrete. Cost included with Concrete Superstructure.
 - The polyurethane sealant shall be according to Article 1050.04 of the Std. Spec. and the color shall be gray.
 - Headed bars shall conform to ASTM A970 with threaded attachment; Class HA; and reinforcement bars conforming to ASTM A706. Cost included with Reinforcement Bars, Epoxy Coated.

FILE NAME: L:\PROJECTS\2022\2022-11\083-0073_11_SUPERSTRUCTURE_DETAILS - I.dwg



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DATE - 05/19/2022

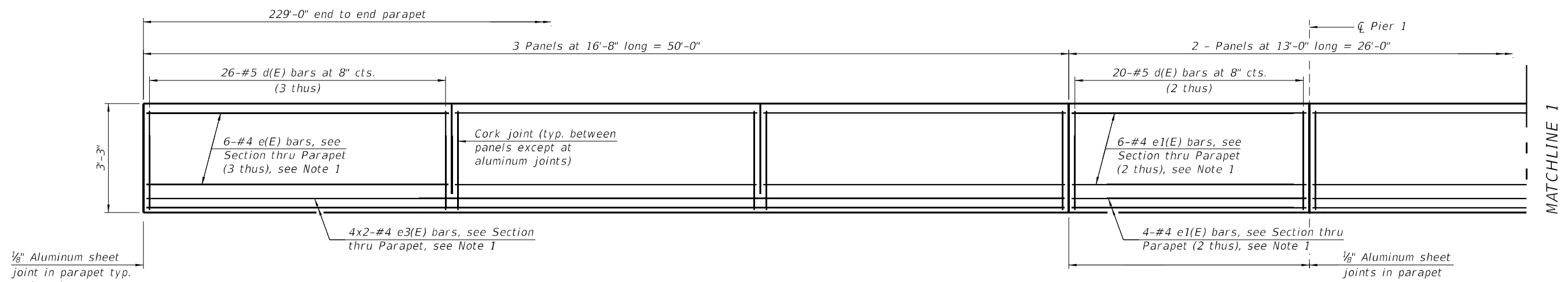
REVISED -
REVISED -
REVISED -
REVISED -

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DEPARTMENT OF TRANSPORTATION

SUPERSTRUCTURE DETAILS - I
SN 083-0073

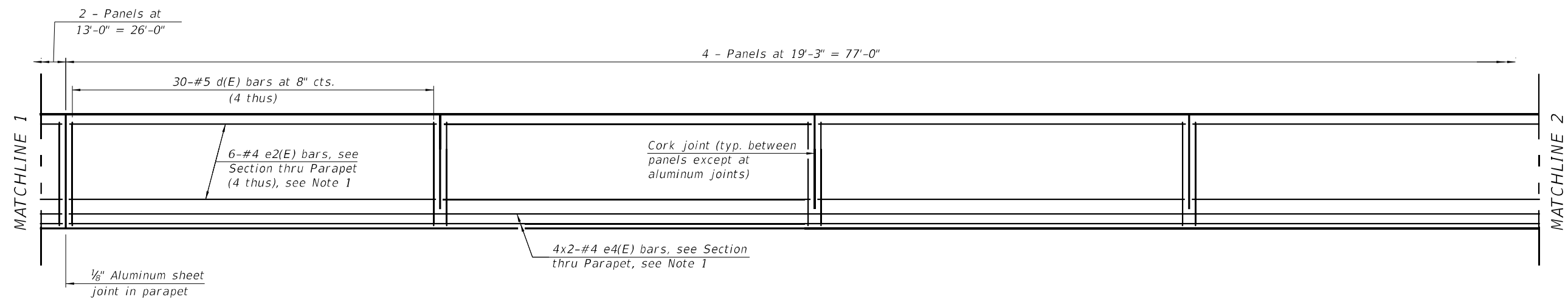
SCALE: SHEET 11 OF 25 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	29B-3	SALINE	150	71
CONTRACT NO. 78716				
ILLINOIS FED. AID PROJECT				

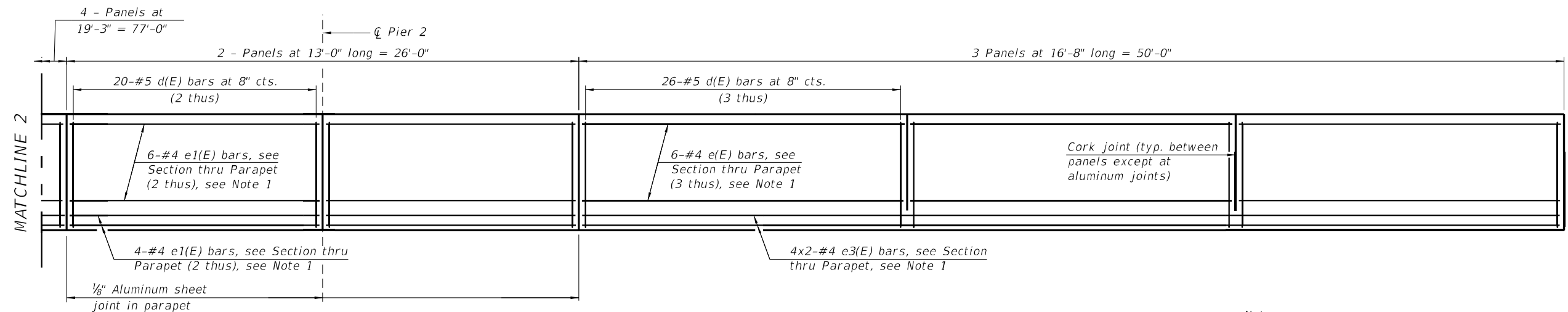


INSIDE ELEVATION OF PARAPET
(West parapet shown, east parapet similar)

MINIMUM BAR LAP
#4 bar = 2'-5"



INSIDE ELEVATION OF PARAPET
(West parapet shown, east parapet similar)



INSIDE ELEVATION OF PARAPET
(West parapet shown, east parapet similar)

- Notes:
 1. See sheet 11 of 25 for Section Thru Parapet
 2. Bars indicated thus 4x2-#4, etc. indicates 4 lines of bars with 2 lengths per line.

FILE NAME: L:\DOT\19065\10\VO_10\Draws\Structures\CADD_Sheets\SN_083_0073\092022\12_Superstructure_Details - II.dgn

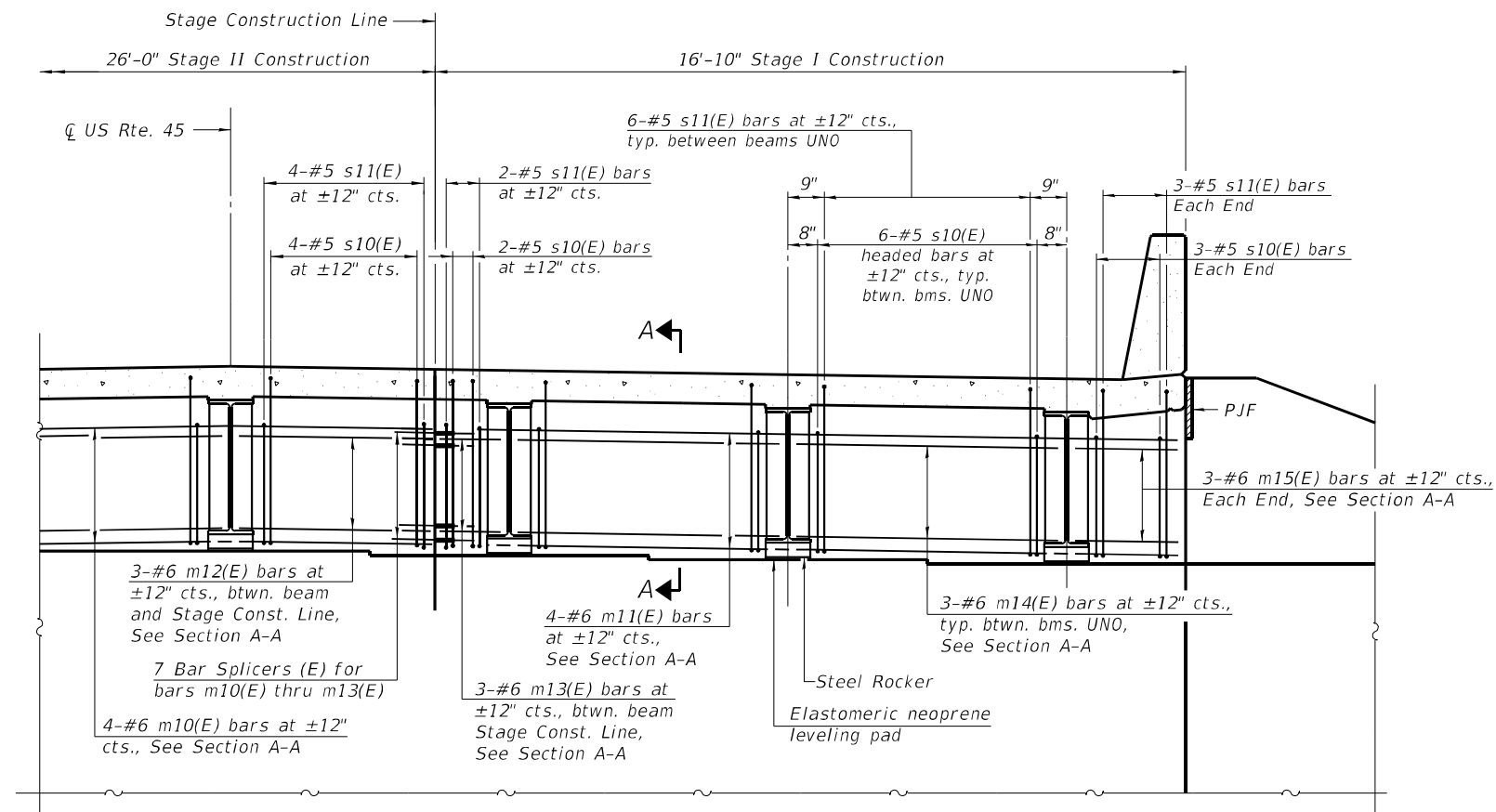


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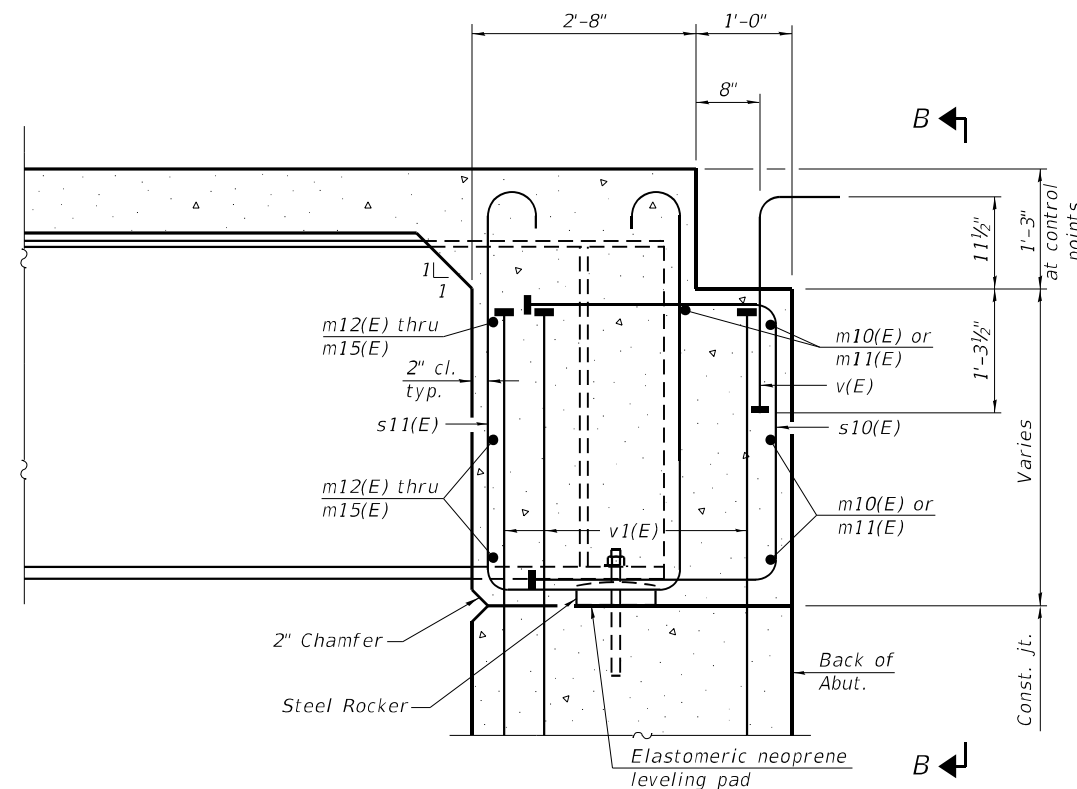
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUPERSTRUCTURE DETAILS - II			
SN 083-0073			
SCALE:	SHEET 12 OF 25 SHEETS	STA.	TO STA.

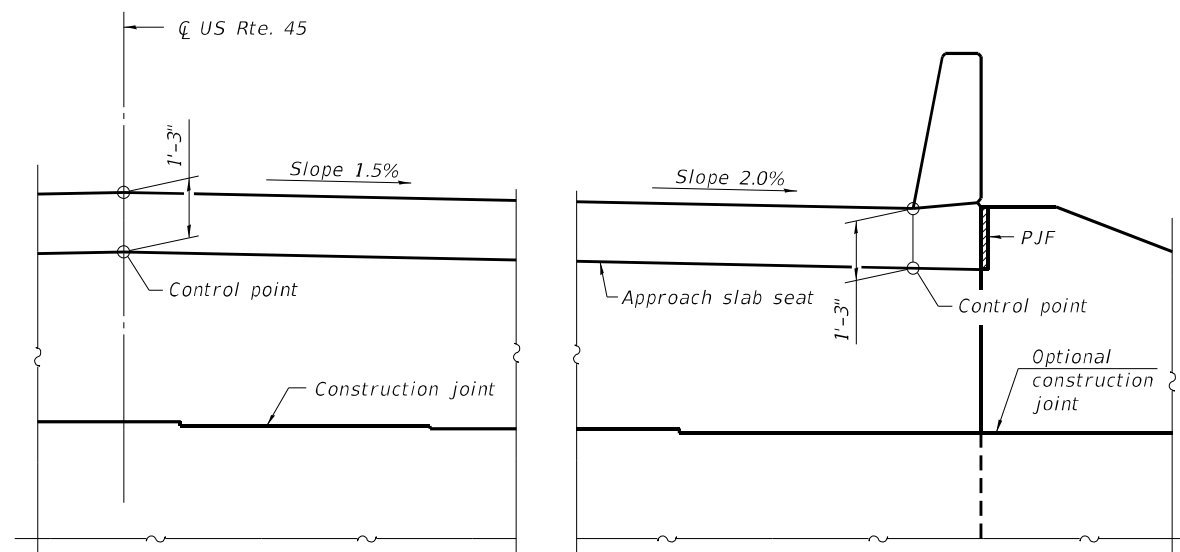
F.A.P. RTE. 332	SECTION 29B-3	COUNTY SALINE	TOTAL SHEETS 150	SHEET NO. 72
CONTRACT NO. 78716				
ILLINOIS FED. AID PROJECT				



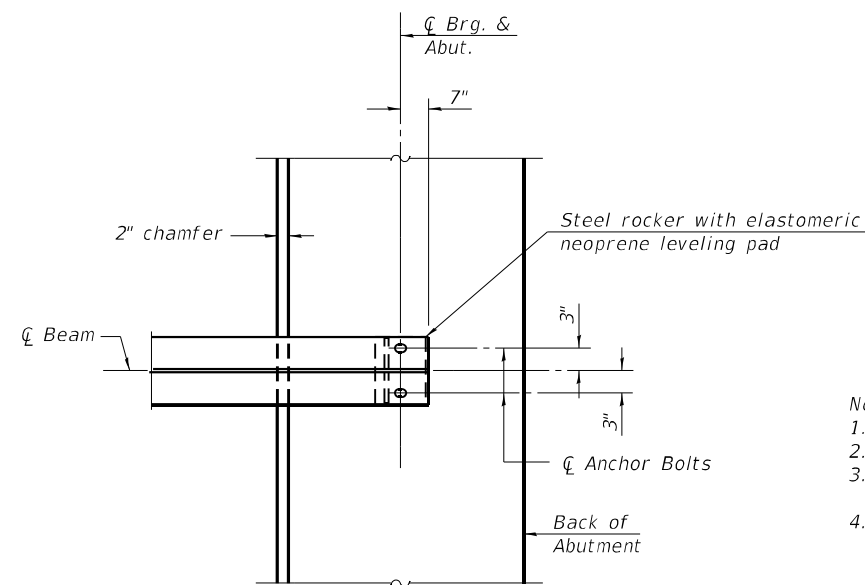
DIAPHRAGM AT ABUTMENT
(North abutment shown, south abutment similar)



SECTION A-A



VIEW B-B



PLAN AT ABUTMENT
(Showing bottom flange of beam)

- Notes:
1. See sheet 11 of 25 for superstructure details and Bill of Material.
 2. See sheet 14 of 25 for PJF details.
 3. The approach slab seat shall have a constant slope determined from the control points shown.
 4. UNO = Unless noted otherwise

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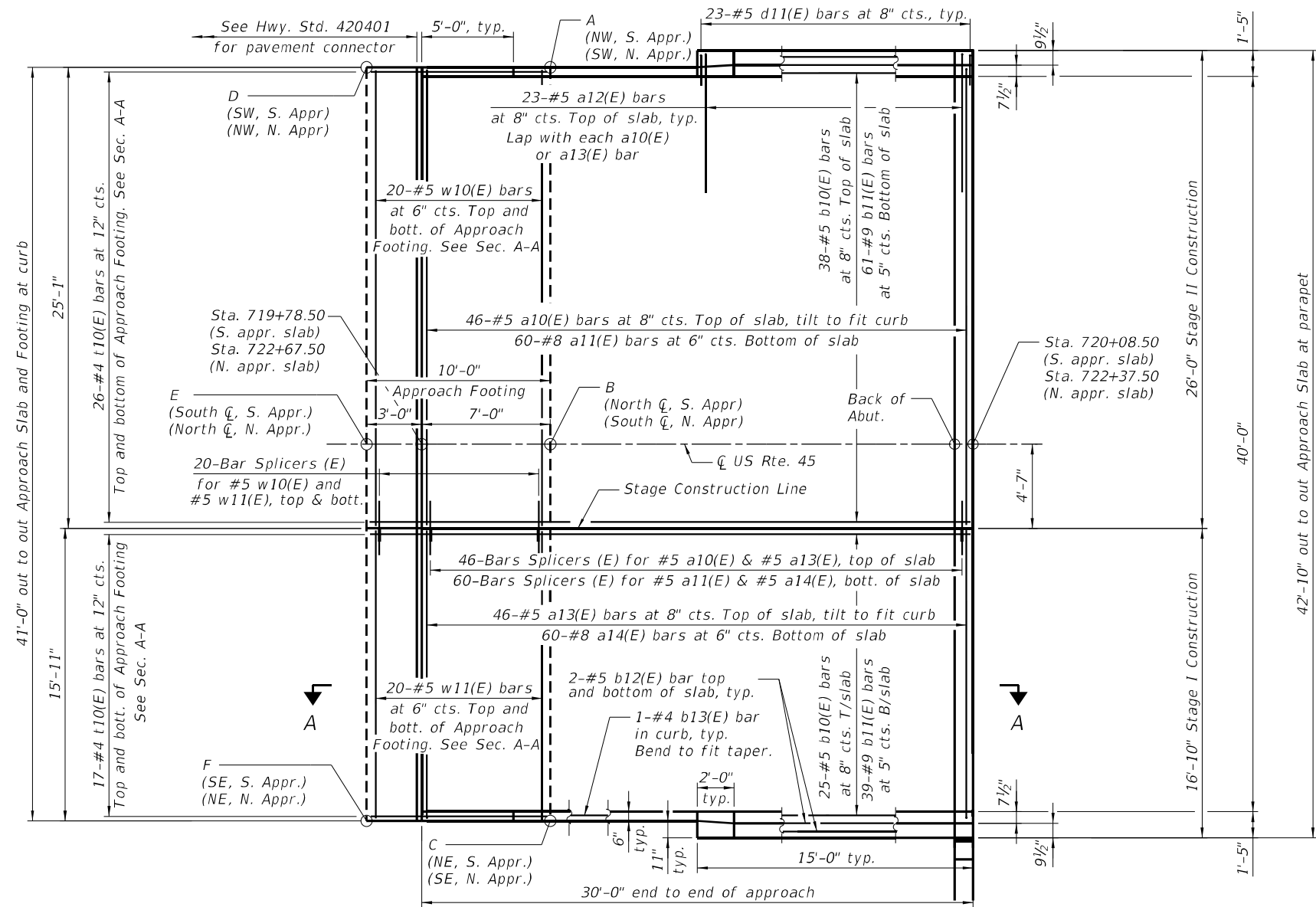
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	DATE - 05/19/2022	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

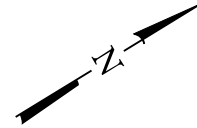
**DIAPHRAGM DETAILS
SN 083-0073**

SCALE: SHEET 13 OF 25 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	29B-3	SALINE	150	73
CONTRACT NO. 78716				
ILLINOIS FED. AID PROJECT				



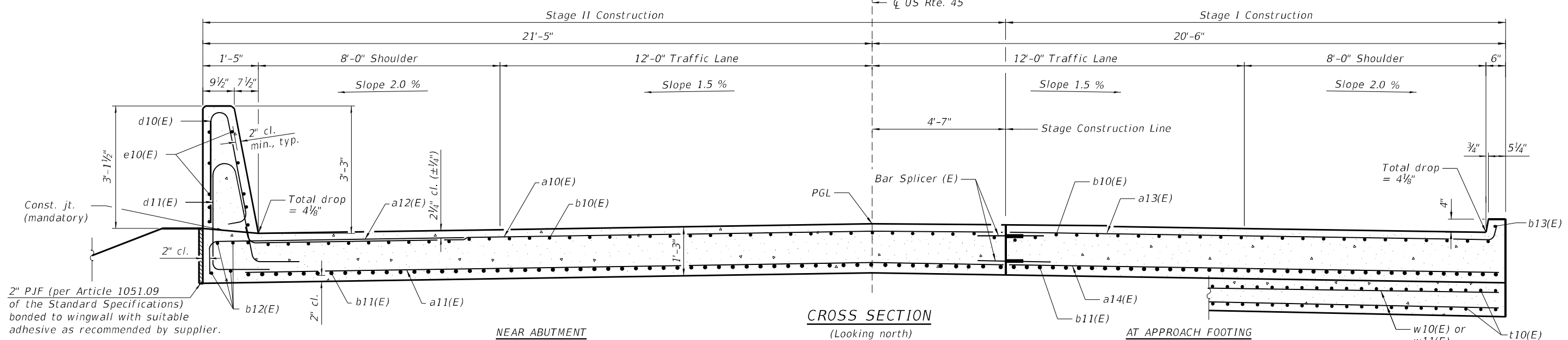
PLAN
(South appr. slab shown, north appr. slab similar)



TOP AND BOTTOM ELEVATIONS
FOR APPROACH FOOTING

Point	Location	South Approach		North Approach	
		Top	Bottom	Top	Bottom
A	NW	369.31	368.48	SW	369.29
B	North \bar{C}	369.66	368.83	South \bar{C}	369.64
C	NE	369.31	368.48	SE	369.29
D	SW	369.22	368.39	NW	369.20
E	South \bar{C}	369.57	368.74	North \bar{C}	369.55
F	SE	369.22	368.39	NE	369.20

Note:
For Section A-A see sheet 15 of 25.



NEAR ABUTMENT

CROSS SECTION
(Looking north)

AT APPROACH FOOTING



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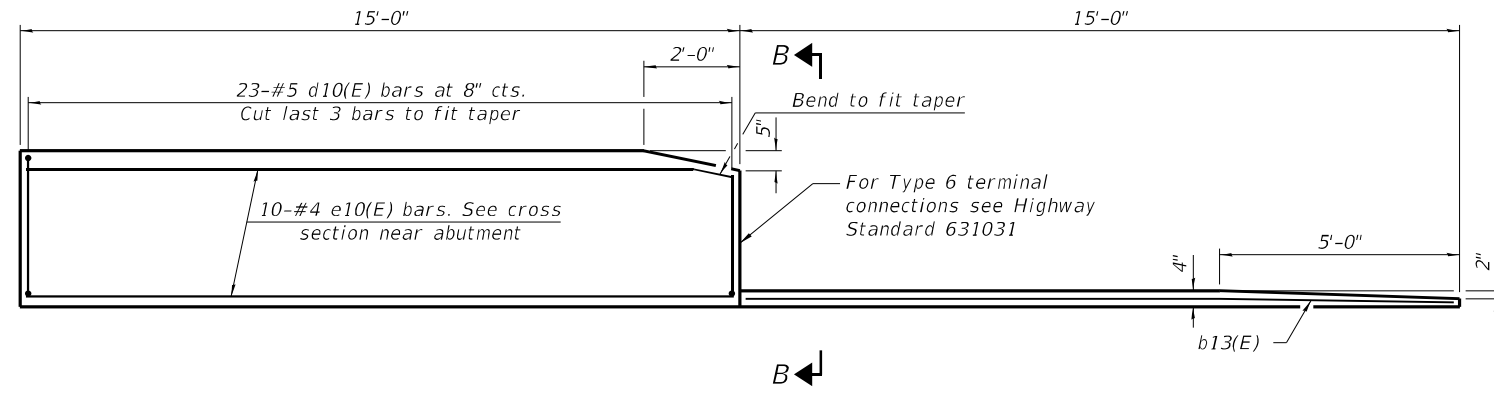
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BRIDGE APPROACH SLAB PLAN
SN 083-0073

SCALE: SHEET 14 OF 25 SHEETS STA. TO STA.

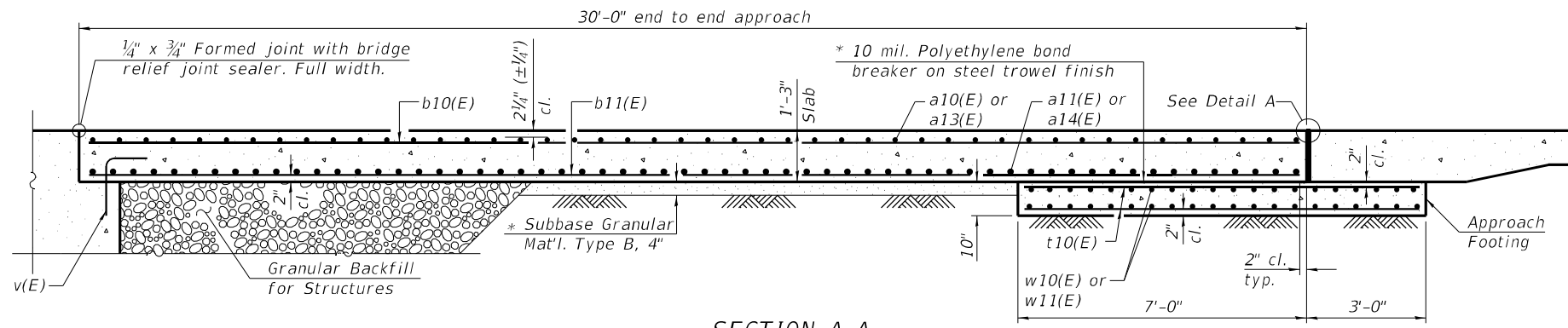
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	29B-3	SALINE	150	74
CONTRACT NO. 78716				
ILLINOIS FED. AID PROJECT				

FILE NAME: L:\DOT\1906610\10\DOT\Structures\CADD_Sheets\SN_083-0073\2D\978716.S1_083-0073_14_Approach_Slab_Plan.dgn

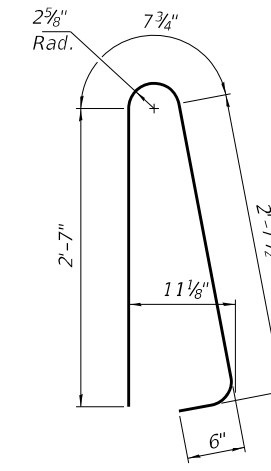


INSIDE ELEVATION OF PARAPET AND CURB

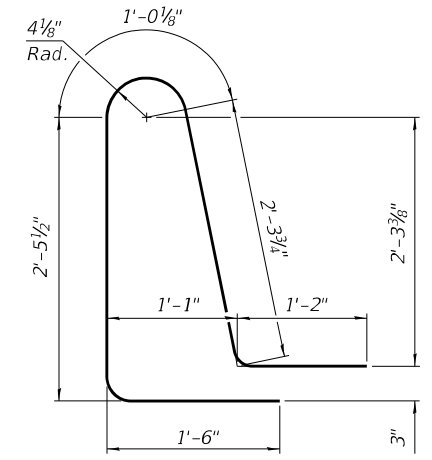
- Notes:
1. The joint opening shall be adjusted for temperature per Article 520.04 of the Standard Specifications. However, since this detail is for jointless structures, the length of bridge used to calculate the adjustment shall be equal to half the total bridge length plus the length of the bridge approach slab.
 2. Parapet concrete shall be paid for as Concrete Superstructure.
 3. Approach slab shall be paid for as Concrete Superstructure (Approach Slab).
 4. Approach footing concrete shall be paid for as Concrete Structures.
 5. The approach footing maximum applied service bearing pressure (Qmax) = 2.0 ksf.
 6. Cost of excavation for approach footing included with Concrete Structures.
 7. For Granular Backfill for Structures and drainage treatment details, see sheet 2 of 25.



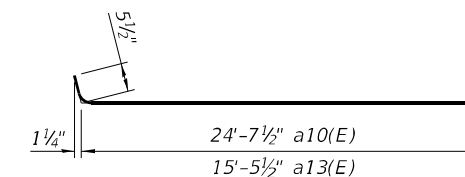
SECTION A-A



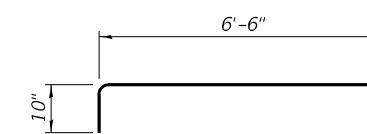
BAR d10(E)



BAR d11(E)



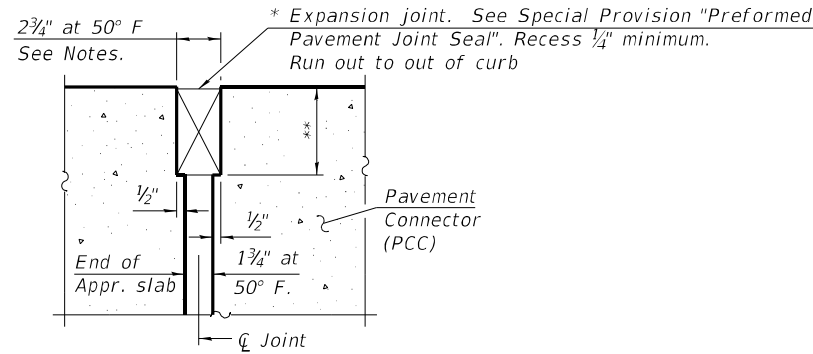
BAR a10(E) & a13(E)



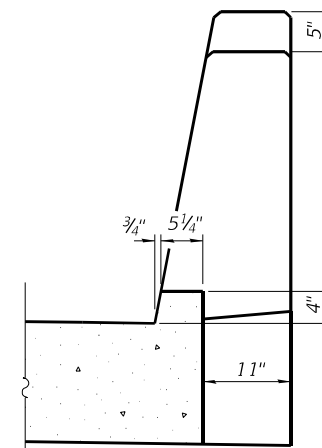
BAR a12(E)

TWO APPROACHES
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a10(E)	92	#5	25'-1"	—
a11(E)	120	#8	24'-9"	—
a12(E)	92	#5	7'-4"	—
a13(E)	92	#5	15'-11"	—
a14(E)	120	#8	15'-7"	—
b10(E)	126	#5	29'-8"	—
b11(E)	200	#9	29'-8"	—
b12(E)	16	#5	14'-8"	—
b13(E)	4	#4	14'-8"	—
d10(E)	92	#5	6'-5"	U
d11(E)	92	#5	8'-6"	U
e10(E)	40	#4	14'-8"	—
t10(E)	172	#4	9'-8"	—
w10(E)	80	#5	24'-9"	—
w11(E)	80	#5	15'-7"	—
Concrete Structures			Cu. Yd.	25.3
Concrete Superstructure			Cu. Yd.	7.8
Bridge Deck Grooving			Sq. Yd.	253
Protective Coat			Sq. Yd.	321
Concrete Superstructure (Approach Slab)			Cu. Yd.	116.8
Reinforcement Bars, Epoxy Coated			Pound	48,220



DETAIL A



VIEW B-B

* Cost included with Concrete Superstructure (Approach Slab).

** Per manufacturer recommendations

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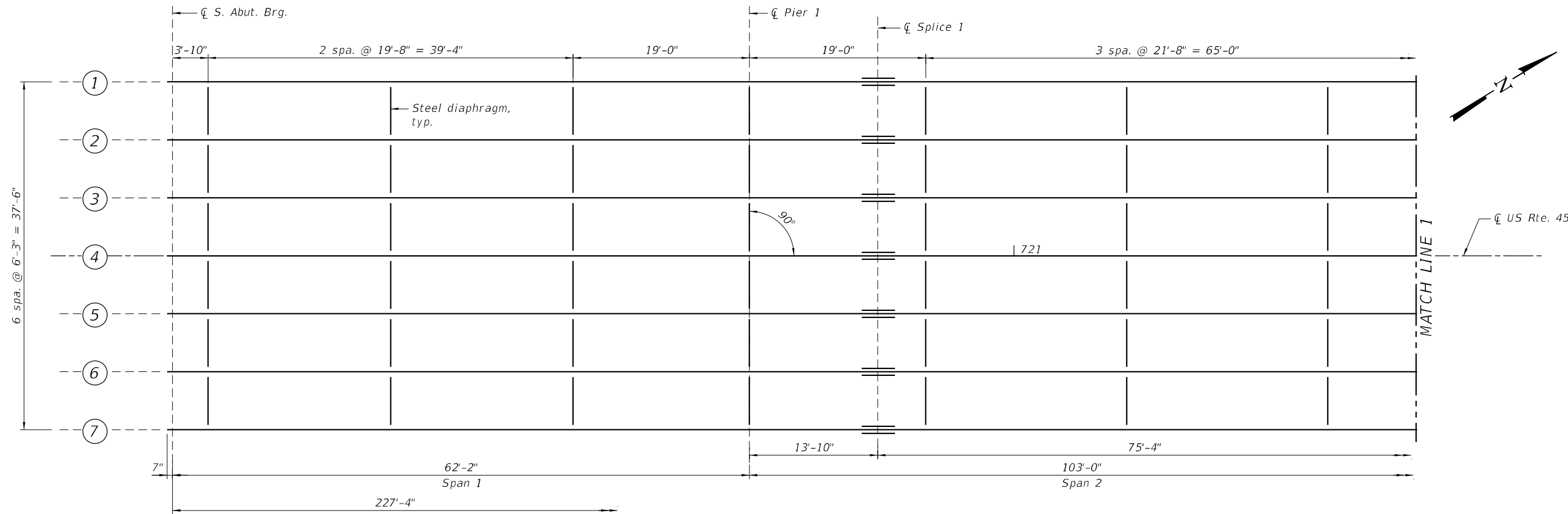
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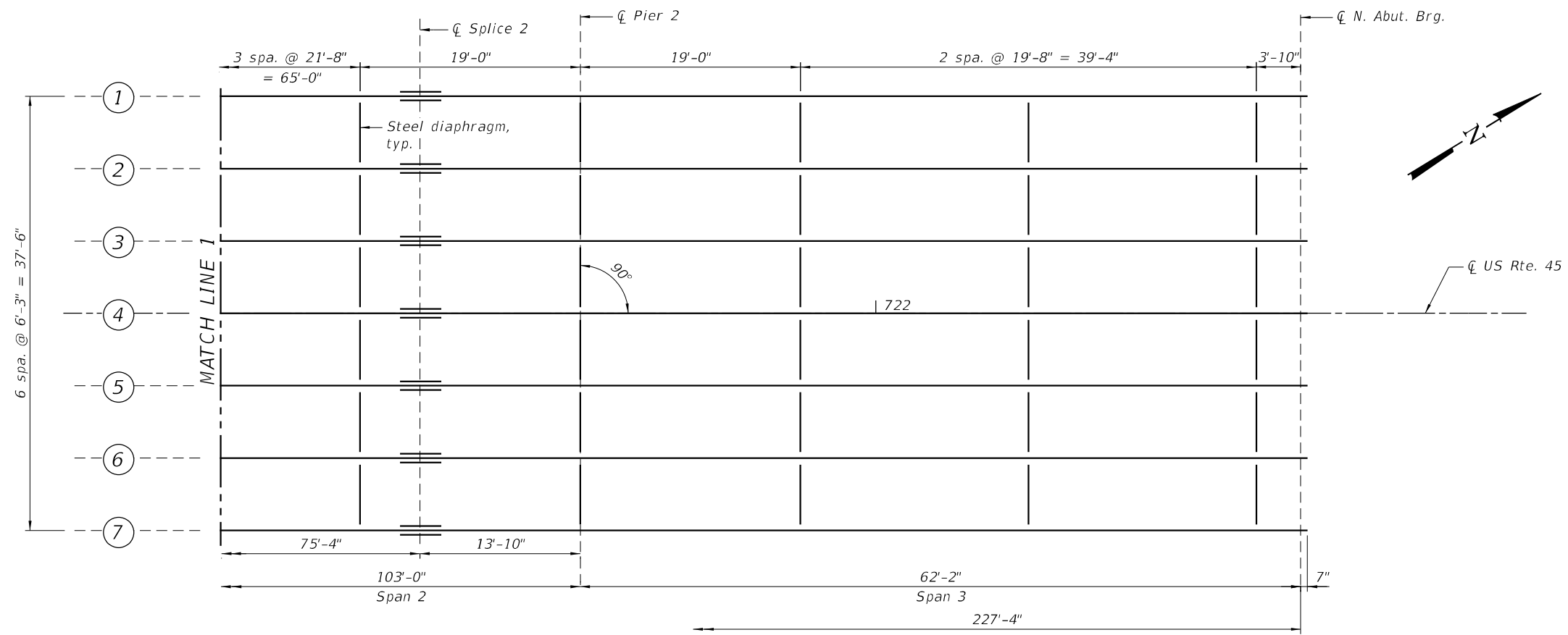
BRIDGE APPROACH SLAB DETAILS
SN 083-0073

SCALE: SHEET 15 OF 25 SHEETS STA. TO STA.

F.A.P. RTE. 332	SECTION 29B-3	COUNTY SALINE	TOTAL SHEETS 150	SHEET NO. 75
CONTRACT NO. 78716			ILLINOIS FED. AID PROJECT	



PARTIAL FRAMING PLAN



PARTIAL FRAMING PLAN

FILE NAME: L:\DOT\1906610\VO_10\DrawStructures\CADD_Sheets\SN_083-0073-16_Framing_Plan.dgn



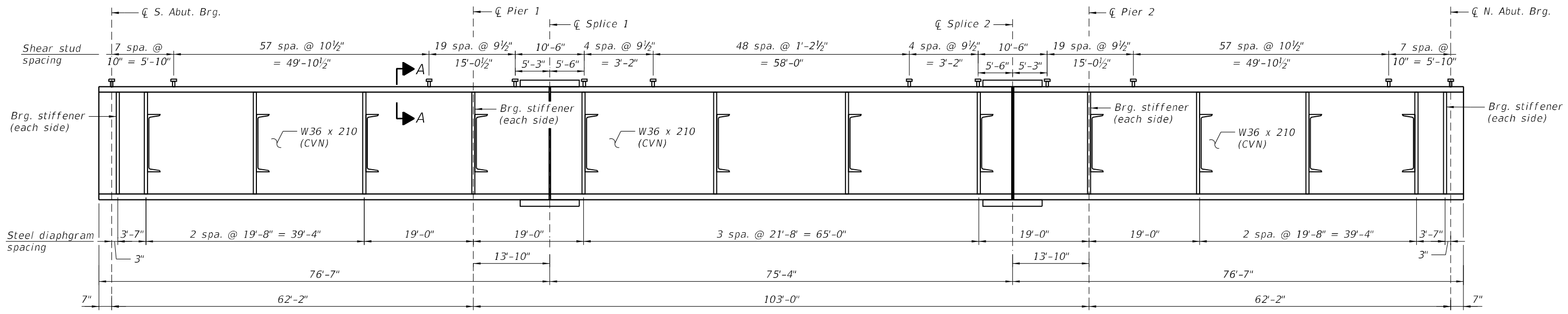
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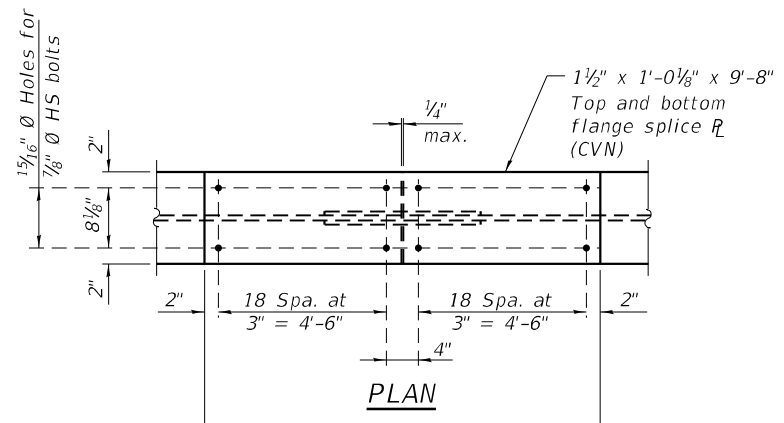
**FRAMING PLAN
SN 083-0073**

SCALE: SHEET 16 OF 25 SHEETS STA. TO STA.

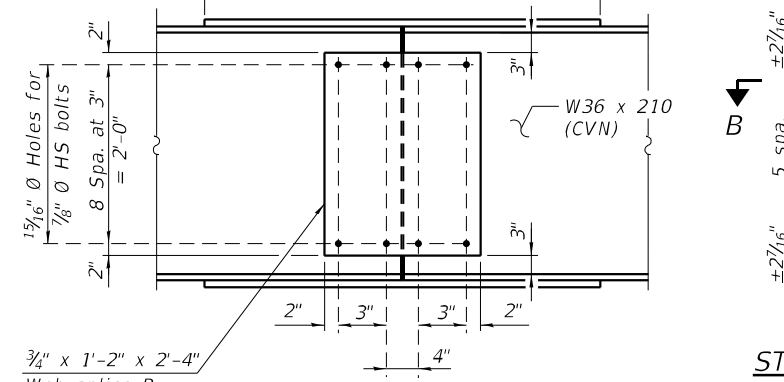
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	29B-3	SALINE	150	76
CONTRACT NO. 78716				
ILLINOIS FED. AID PROJECT				



BEAM ELEVATION



PLAN

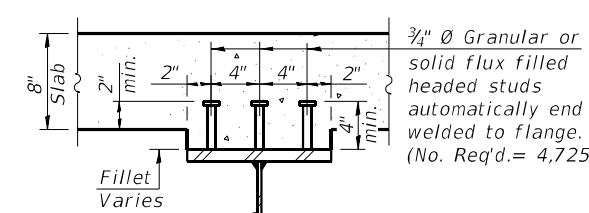


ELEVATION

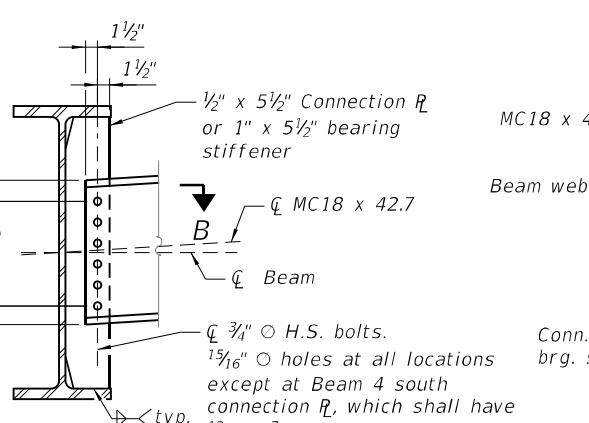
SPLICE DETAIL
(14 Required)

TOP OF BEAM ELEVATIONS
(For fabrication only)

	Beam 1	Beam 2	Beam 3	Beam 4	Beam 5	Beam 6	Beam 7
CL Brg. S. Abut.	370.06	370.19	370.28	370.38	370.28	370.19	370.06
CL Pier 1	370.31	370.43	370.53	370.62	370.53	370.43	370.31
CL Splice 1	370.37	370.49	370.59	370.68	370.59	370.49	370.37
CL Splice 2	370.36	370.49	370.58	370.68	370.58	370.49	370.36
CL Pier 2	370.30	370.43	370.52	370.62	370.52	370.43	370.30
CL Brg. N. Abut.	370.04	370.17	370.26	370.36	370.26	370.17	370.04

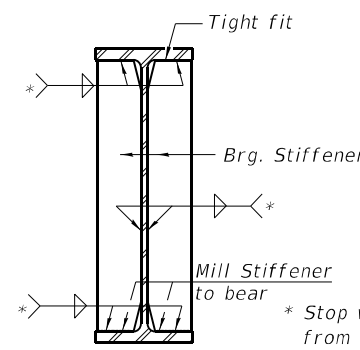


SECTION A-A

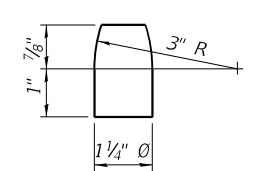


STEEL DIAPHRAGM

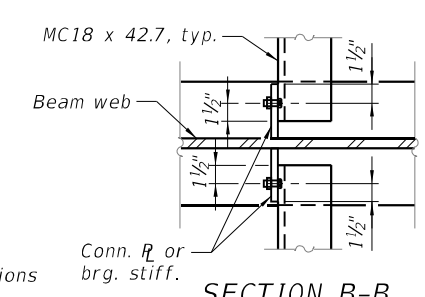
(Adjacent connection plate or bearing stiffener not shown)



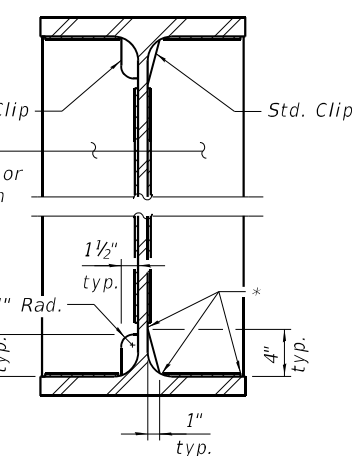
SECTION AT BEARING STIFFENER



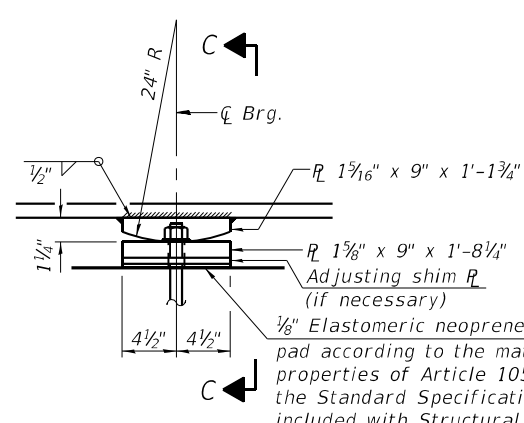
PINTLE



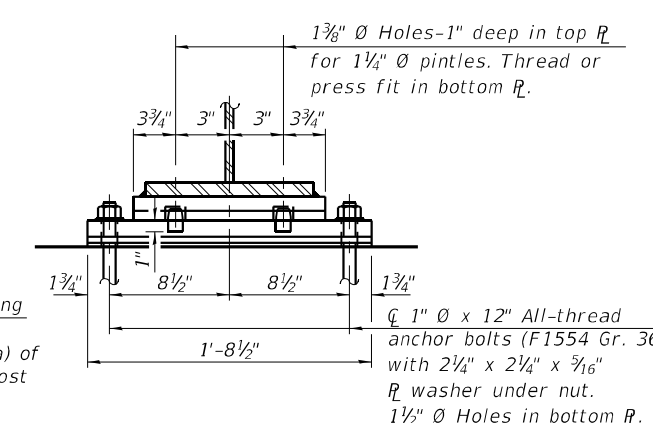
SECTION B-B



WELD LIMITS AND CLIP DETAIL

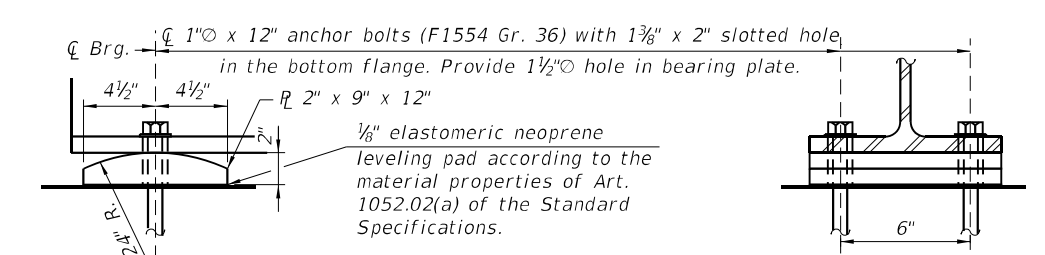


ELEVATION AT PIER



SECTION C-C

FIXED PIER BEARING



FIXED ABUTMENT BEARING

BILL OF MATERIAL

Item	Unit	Total
Anchor Bolts, 1"	Each	56

Notes:

- All steel except bearing plates including beam, bearing stiffeners, diaphragms, and splice plates shall be AASHTO M270 Grade 50W.
- Bearing plates shall be AASHTO M270 Grade 50.
- "CVN" denotes Charpy V-Notch impact energy requirements, Zone 2.
- All splice bolts shall be 7/8" ASTM A325, and bolt holes shall be 15/16" diameter.
- Two hardened washers required for each set of oversized holes.
- Alternate channels of equal depth and larger weight are permitted to facilitate material acquisition. Alternate channels, if utilized, shall be provided at no additional cost to the Department.
- All diaphragms shall be installed as steel is erected and secured with erection pins and bolts except as otherwise noted. Individual diaphragms at supports may be temporarily disconnected to install bearing anchor rods.
- Two 1/8" adjusting shims shall be provided for each bearing in addition to all other plates or shims and placed as shown on bearing details.



USER NAME = Derek Cochran
 DESIGNED - DH
 DRAWN - DH
 PLOT SCALE = N/A
 CHECKED - ATI
 PLOT DATE = 12/8/2022 (2:54:58 PM)
 DATE - 05/19/2022

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BEAM AND STEEL DETAILS
SN 083-0073

SCALE: SHEET 17 OF 25 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	29B-3	SALINE	150	77
CONTRACT NO. 78716				
ILLINOIS FED. AID PROJECT				

INTERIOR GIRDER MOMENT TABLE				
		0.4 Sp. 1 or 0.6 Sp. 3	Pier	0.5 Sp. 2
<i>I_s</i>	(in ⁴)	13200	13200	13200
<i>I_c(n)</i>	(in ⁴)	32563	32563	32563
<i>I_c(3n)</i>	(in ⁴)	23438	23438	23438
<i>I_c(cr)</i>	(in ⁴)	--	16311	--
<i>S_s</i>	(in ³)	719	719	719
<i>S_c(n)</i>	(in ³)	1034	--	1034
<i>S_c(3n)</i>	(in ³)	925	--	925
<i>S_c(cr)</i>	(in ³)	--	797	--
<i>DC1</i>	(k/')	0.87	0.87	0.87
<i>MDC1</i>	(k)	138	662	491
<i>DC2</i>	(k/')	0.15	0.15	0.15
<i>MDC2</i>	(k)	23	115	84
<i>DW</i>	(k/')	0.29	0.29	0.29
<i>MDW</i>	(k)	45	220	159
<i>LLDF</i>		0.58	0.55	0.53
<i>M_ℓ + IM</i>	(k)	673	862	842
<i>M_u (Strength I)</i>	(k)	1447	2810	2431
<i>∅f Mn</i>	(k)	5063	4092	5063
<i>f_s DC1</i>	(ksi)	2.30	11.04	8.19
<i>f_s DC2</i>	(ksi)	0.30	1.73	1.09
<i>f_s DW</i>	(ksi)	0.58	3.31	2.06
<i>f_s (ℓ+IM)</i>	(ksi)	7.81	12.98	9.77
<i>f_s (Service II)</i>	(ksi)	13.33	32.95	24.04
<i>0.95R_h F_{yf}</i>	(ksi)	47.50	47.50	47.50
<i>f_s (Total)(Strength I)</i>	(ksi)	17.79	43.64	31.79
<i>∅f F_n</i>	(ksi)	--	--	--
<i>V_f</i>	(k)	25	27	18

GIRDER REACTION TABLE					
		Abutment		Pier	
		Interior	Exterior	Interior	Exterior
<i>LLDF</i>		0.732	0.531	0.732	0.531
<i>OCF</i>		--	1.00	--	--
<i>RDC1</i>	(k)	17.2	15.9	82.5	76.2
<i>RDC2</i>	(k)	2.8	2.8	14.2	14.2
<i>RDW</i>	(k)	5.4	5.4	27.2	27.2
<i>R_ℓ</i>	(k)	53.5	46.2	98.9	85.3
<i>R_{IM}</i>	(k)	13.5	11.61	19.8	17.04
<i>RTotal</i>	(k)	92.3	81.8	242.6	220.0

I_s, S_s: Non-composite moment of inertia and section modulus of the steel section used for computing *f_s*(Total-Strength I, and Service II) due to non-composite dead loads (in.⁴ and in.³).

I_c(n), S_c(n): Composite moment of inertia and section modulus of the steel and deck based upon the modular ratio, "n", used for computing *f_s*(Total-Strength I, and Service II) in uncracked sections due to short-term composite live loads (in.⁴ and in.³).

I_c(3n), S_c(3n): Composite moment of inertia and section modulus of the steel and deck based upon 3 times the modular ratio, "3n", used for computing *f_s*(Total-Strength I, and Service II) in uncracked sections, due to long-term composite (superimposed) dead loads (in.⁴ and in.³).

I_c(cr), S_c(cr): Composite moment of inertia and section modulus of the steel and longitudinal deck reinforcement, used for computing *f_s* (Total-Strength I and Service II) in cracked sections, due to both short-term composite live loads and long-term composite (superimposed) dead loads (in.⁴ and in.³).

DC1: Un-factored non-composite dead load (kips/ft.).

MDC1: Un-factored moment due to non-composite dead load (kip-ft.).

DC2: Un-factored long-term composite (superimposed excluding future wearing surface) dead load (kips/ft.).

MDC2: Un-factored moment due to long-term composite (superimposed excluding future wearing surface) dead load (kip-ft.).

DW: Un-factored long-term composite (superimposed future wearing surface only) dead load (kips/ft.).

MDW: Un-factored moment due to long-term composite (superimposed future wearing surface only) dead load (kip-ft.).

M_ℓ + IM: Un-factored live load moment plus dynamic load allowance (impact) (kip-ft.).

M_u (Strength I): Factored design moment (kip-ft.).
1.25 (MDC1 + MDC2) + 1.5 MDW + 1.75 M_ℓ + IM

∅f Mn: Compact composite positive moment capacity computed according to Article 6.10.7.1 or non-slender negative moment capacity according to Article A6.1.1 or A6.1.2 (kip-ft.).

f_s DC1: Un-factored stress at edge of flange for controlling steel flange due to vertical non-composite dead loads as calculated below (ksi).
MDC1/ S_{nc}

f_s DC2: Un-factored stress at edge of flange for controlling steel flange due to vertical composite dead loads as calculated below (ksi).
MDC2/ S_c(3n) or MDC2/ S_c(cr) as applicable.

f_s DW: Un-factored stress at edge of flange for controlling steel flange due to vertical composite future wearing surface loads as calculated below (ksi).
MDW/ S_c(3n) or MDW/ S_c(cr) as applicable.

f_s (ℓ+IM): Un-factored stress at edge of flange for controlling steel flange due to vertical composite live load plus impact loads as calculated below (ksi).
M_ℓ + IM / S_c(n) or M_ℓ + IM / S_c(cr) as applicable.

f_s (Service II): Sum of stresses as computed below (ksi).
f_sDC1 + f_sDC2 + f_sDW + 1.3 f_s(ℓ + IM)

0.95R_hF_{yf}: Composite stress capacity for Service II loading according to Article 6.10.4.2 (ksi).

f_s (Total) (Strength I): Sum of stresses as computed below on non-compact section (ksi).
1.25 (f_sDC1 + f_sDC2) + 1.5 f_sDW + 1.75 f_s(ℓ + IM)

∅f F_n: Non-Compact composite positive or negative stress capacity for Strength I loading according to Article 6.10.7 or 6.10.8 (ksi).

V_f: Maximum factored shear range in span computed according to Article 6.10.10.

LLDF: Live load distribution factor.

OCF: Obtuse correction factor.

Note:
M_ℓ and R_ℓ include the effects of centrifugal force and superelevation.

FILE NAME: L:\DOT\190665\01\VO_10\Draw\Structures\CADD_Sheets\SN_083-0073\02\072022\18_Moment_Table.dgn



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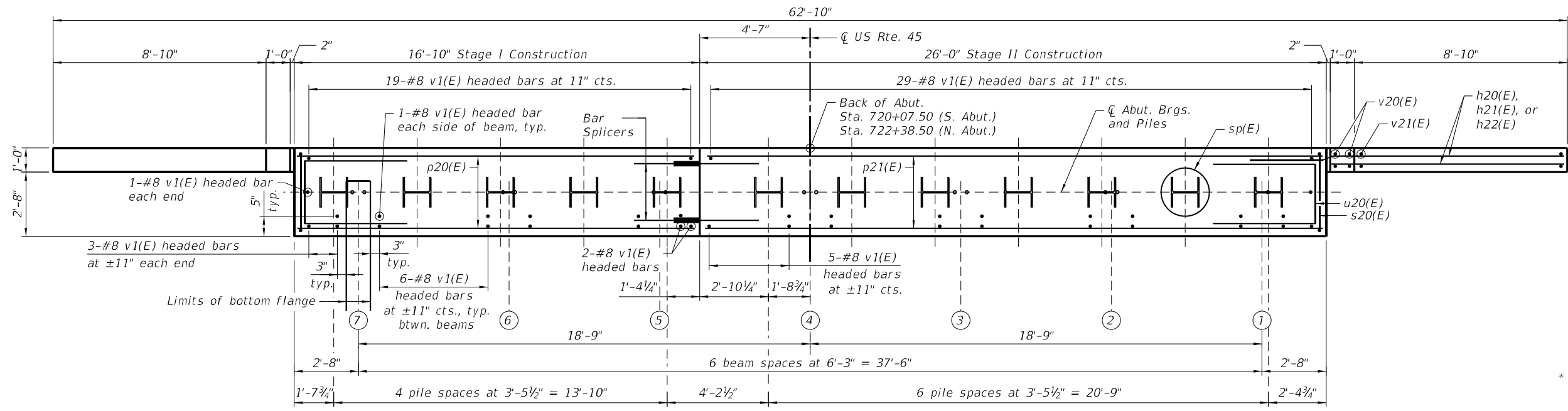
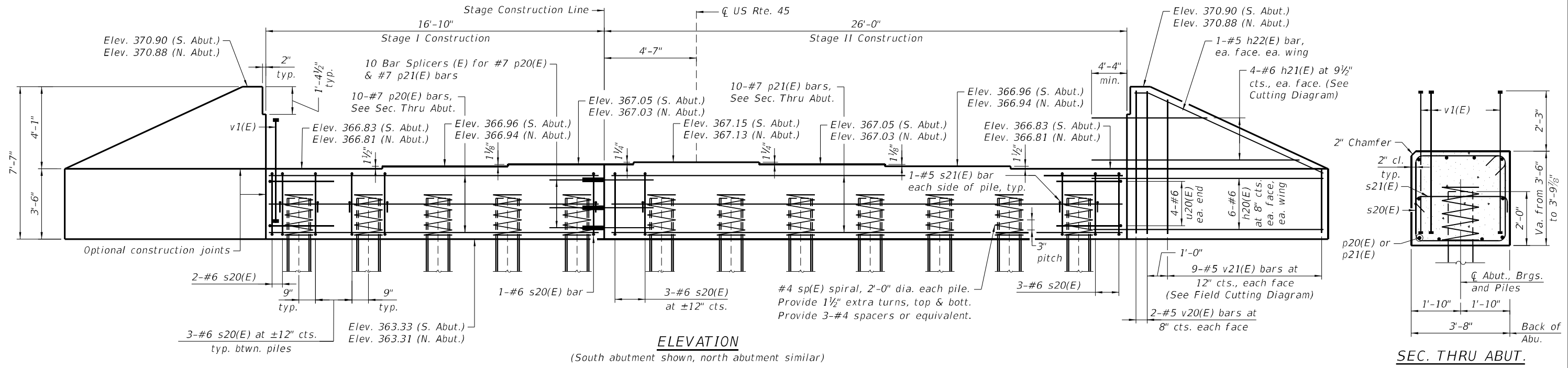
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	DRAWN - DH	REVISED -
PLOT SCALE = N/A	CHECKED - ATI	REVISED -
PLOT DATE = 12/8/2022 (2:55:00 PM)	DATE - 05/19/2022	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MOMENT AND REACTION TABLES
SN 083-0073

SCALE: SHEET 18 OF 25 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	29B-3	SALINE	150	78
CONTRACT NO. 78716				
ILLINOIS		FED. AID PROJECT		



BILL OF MATERIAL FOR TWO ABUTMENTS

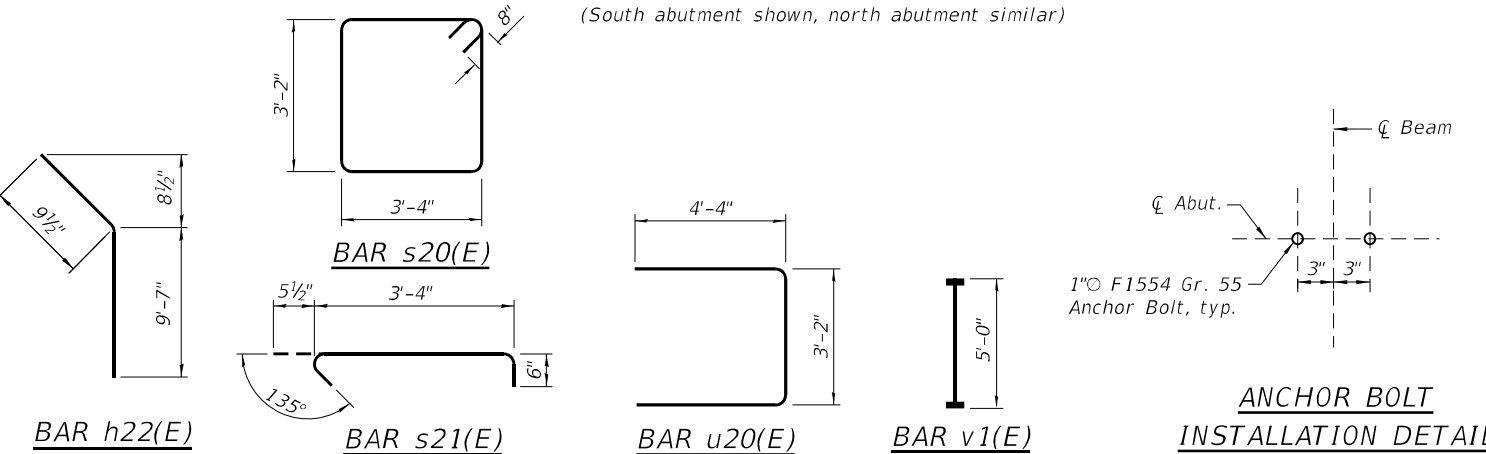
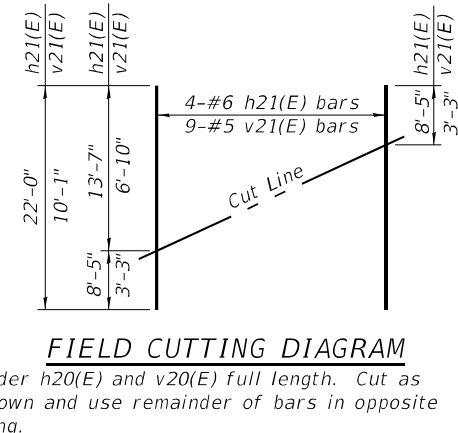
Bar	No.	Size	Length	Shape
h20(E)	48	#6	14'-2"	—
h21(E)	16	#6	22'-0"	—
h22(E)	8	#5	10'-5"	—
p20(E)	20	#7	16'-6"	—
p21(E)	20	#7	25'-8"	—
s20(E)	78	#6	14'-4"	□
s21(E)	48	#5	4'-4"	┌
sp20(E)	24	#4	2'-0"	≡
u20(E)	16	#6	11'-10"	┌
v1(E)	214	#8	5'-0"	—
v20(E)	16	#5	7'-3"	—
v21(E)	36	#5	10'-1"	—
Structure Excavation			Cu. Yd.	214
Concrete Structures			Cu. Yd.	51.0
Reinforcement Bars, Epoxy Coated			Pound	10,010
Furnishing Steel Piles HP14x89			Foot	2,365
Driving Piles			Foot	2,365
Test Pile Steel HP14x89			Each	2
Granular Backfill for Structures			Cu. Yd.	119
Geocomposite Wall Drain			Sq. Yd.	68
Pipe Underdrains for Structures 4"			Foot	106

* Length is height of spiral

PILE DATA

Type: HP14x89
Nominal Required Bearing: 705 kips
Factored Resistance Available: 388 kips
Est. Length: 104 ft. (S. Abut.)
111 ft. (N. Abut.)
No. Production Piles: 22
No. Test Piles: 2

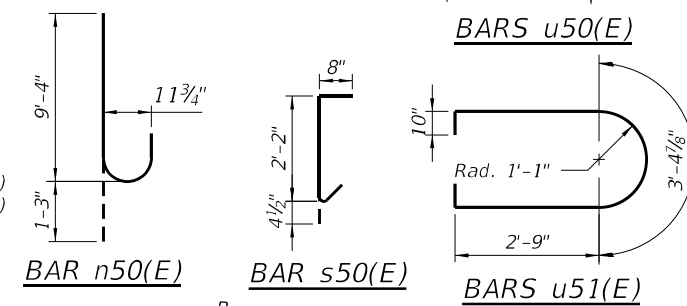
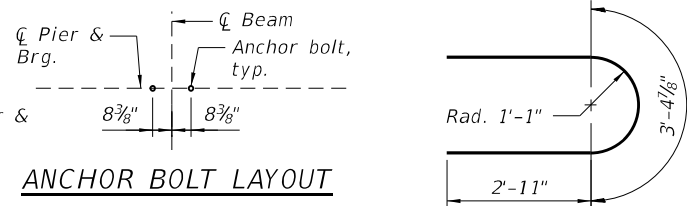
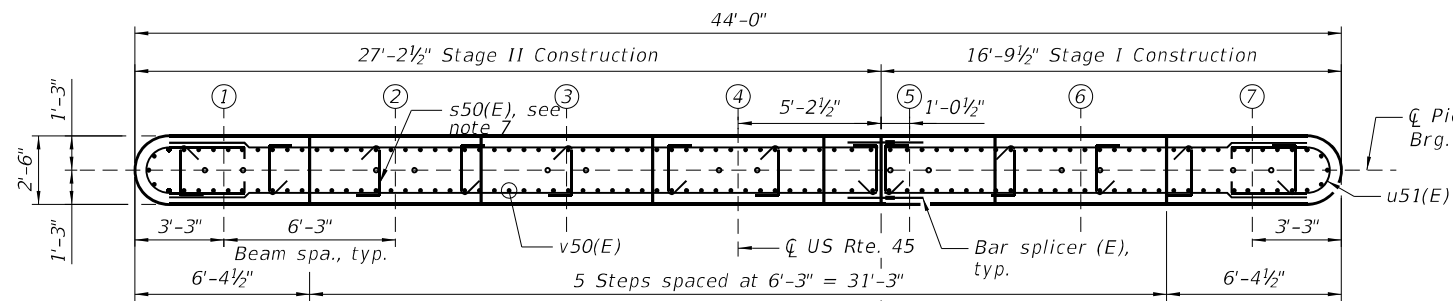
Notes:
1. Pour steps monolithically with cap.
2. Headed bars shall conform to ASTM A970 with threaded attachment; Class HA; and reinforcement bars conforming to ASTM A706. Cost included with Reinforcement Bars, Epoxy Coated.
3. For details of piles see sheet 21 of 25.
4. For details of splicers see sheet 22 of 25.



FILE NAME: L:\DOT\19066510\VO_10\DrawStructures\CADD_Sheets\SN_083-0073\19_North and South Abutment.dgn

- (1) 21 sets - 1-#5 u50(E) bars tied to 2-#5 h50(E) bars spaced at 3", with #4 s50(E) bars, see note 7
- (2) 50 sets - 1-#5 u51(E) bars tied to 2-#5 h51(E) bars spaced at 6", with #4 s50(E) bars, see note 7
- (3) 21 sets - 1-#5 u50(E) bars tied to 2-#5 h52(E) bars spaced at 3", with #4 s50(E) bars, see note 7
- (4) 50 sets - 1-#5 u51(E) bars tied to 2-#5 h53(E) bars spaced at 6", with #4 s50(E) bars, see note 7

See Elevation view for horizontal spacing of s50(E) bars.

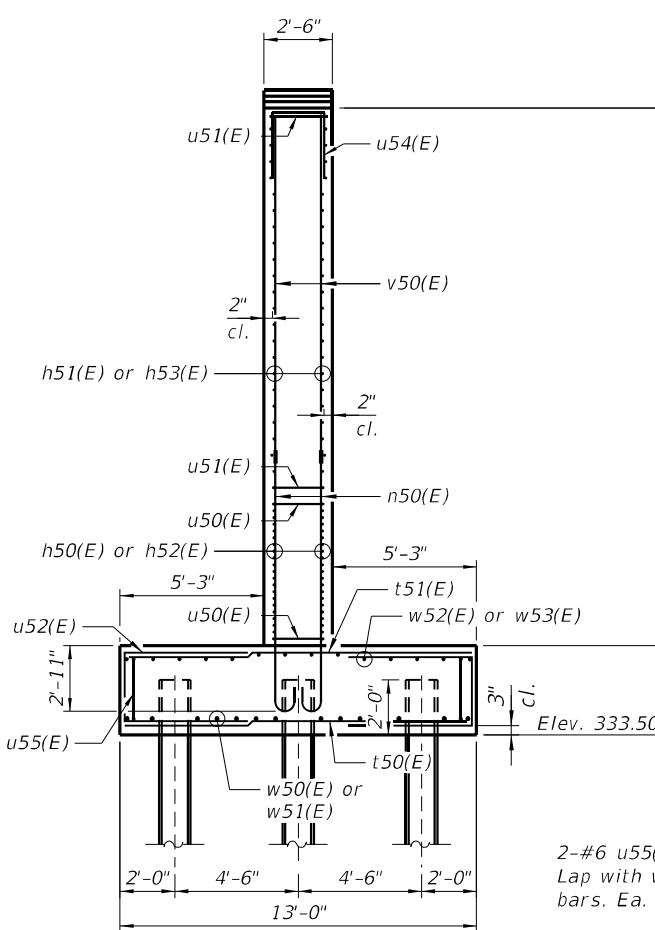


Bar	A	B
u52(E)	3'-4"	2'-10"
u53(E)	3'-4"	12'-5"
u54(E)	2'-5"	2'-1"
u55(E)	3'-4"	2'-8"

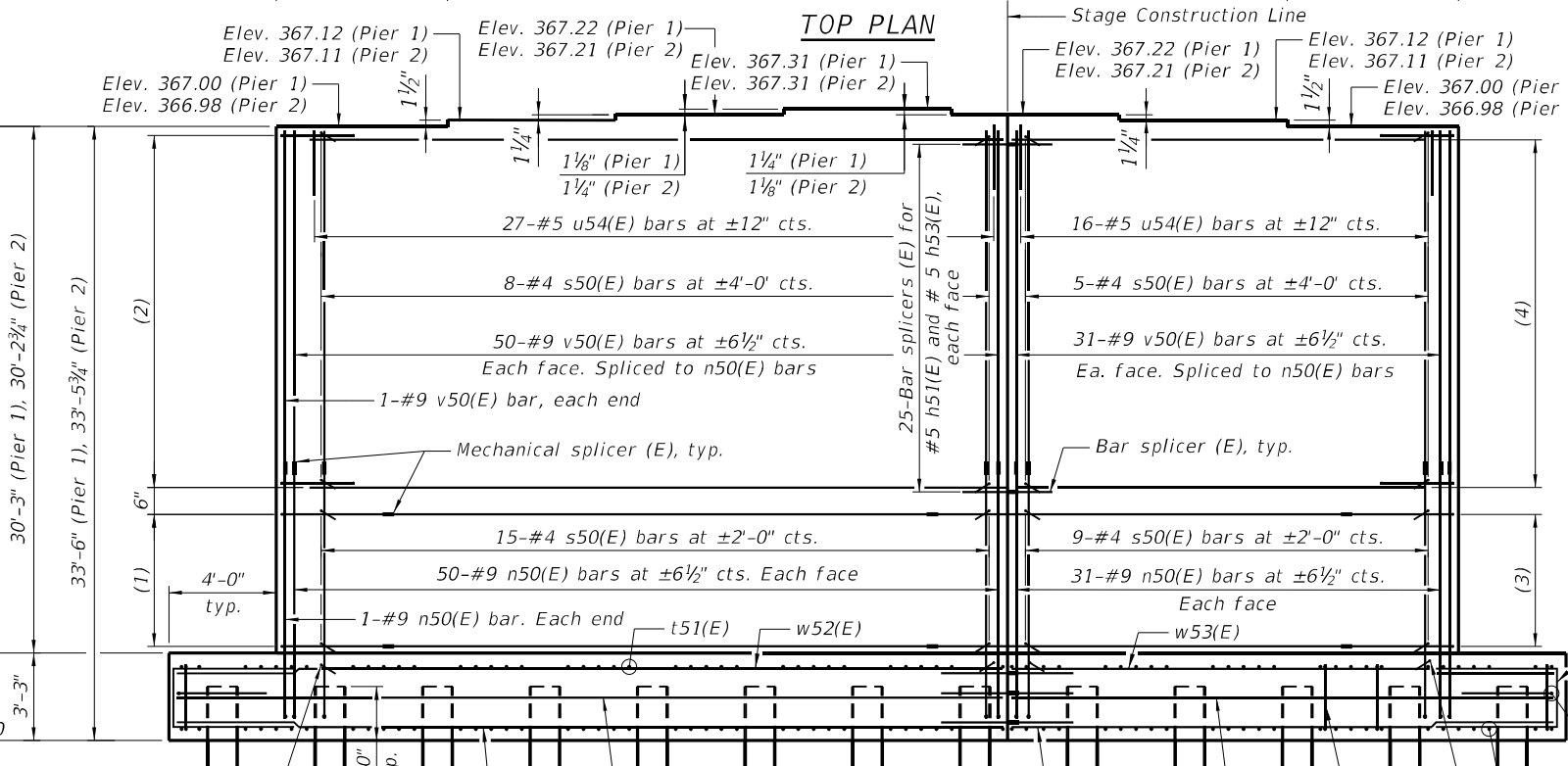
BAR u52(E), u53(E), u54(E) & u55(E)

BILL OF MATERIAL FOR TWO PIERS

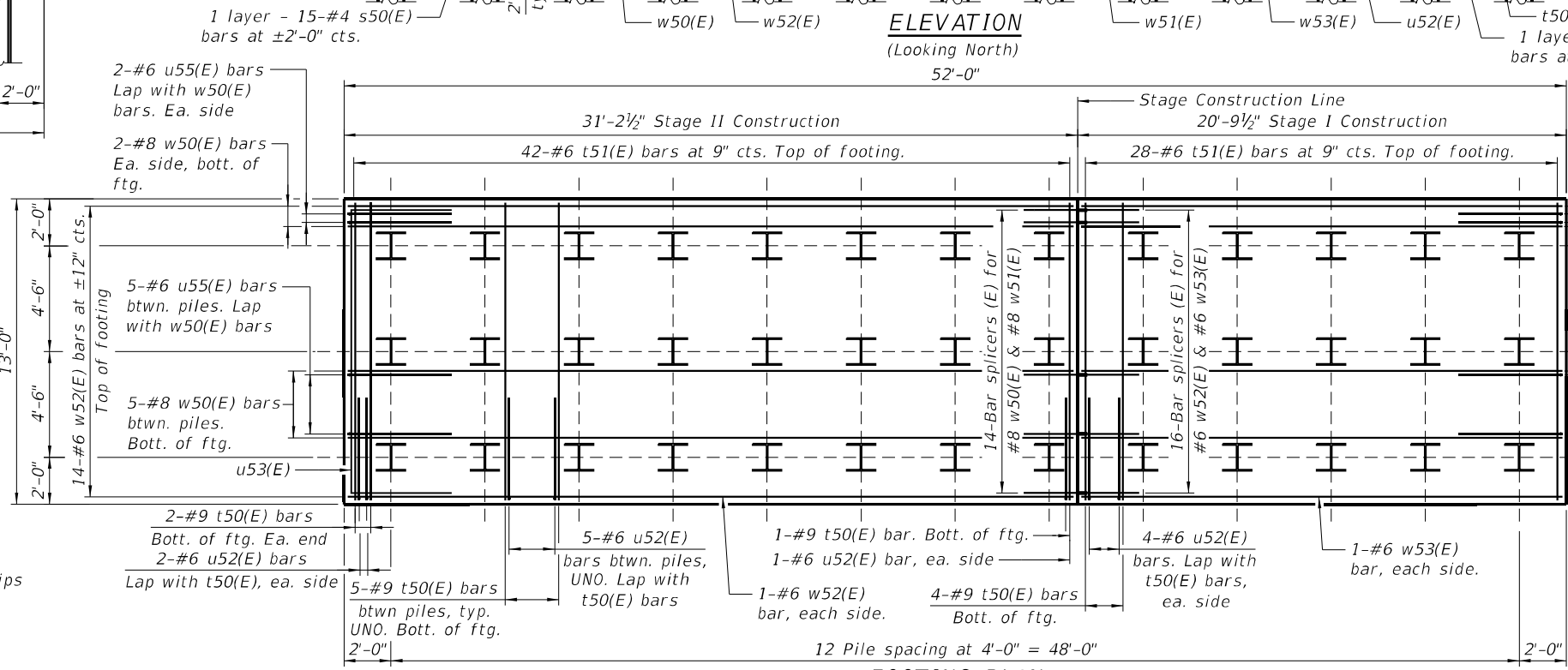
Bar	No.	Size	Length	Shape
h50(E)	84	#5	20'-1"	—
h51(E)	200	#5	25'-10"	—
h52(E)	84	#5	15'-7"	—
h53(E)	200	#5	15'-5"	—
n50(E)	328	#9	10'-7"	U
s50(E)	2356	#4	3'-3"	L
t50(E)	128	#9	12'-8"	—
t51(E)	140	#6	12'-8"	—
u50(E)	84	#5	9'-3"	U
u51(E)	200	#5	10'-7"	U
u52(E)	256	#6	9'-6"	U
u53(E)	4	#6	19'-1"	U
u54(E)	86	#5	6'-11"	U
u55(E)	56	#6	9'-4"	U
v50(E)	328	#9	23'-9"	—
w50(E)	28	#8	30'-10"	—
w51(E)	28	#8	20'-5"	—
w52(E)	32	#6	30'-10"	—
w53(E)	32	#6	20'-5"	—
Cofferdam Excavation		Cu. Yd.	777	
Concrete Structures		Cu. Yd.	408.1	
Reinforcement Bars, Epoxy Coated		Pound	77,930	
Furnishing Steel Piles HP14x89		Foot	6,004	
Driving Piles		Foot	6,004	
Test Pile Steel HP14x89		Each	2	



END VIEW



ELEVATION (Looking North)



FOOTING PLAN

- Notes:
1. Space reinforcement in cap to miss anchor bolts.
 2. Pour steps monolithically with cap.
 3. For details of piles, see sheet 21 of 25.
 4. For cofferdam details see sheet 5 of 25.
 5. For Bar Splicer and Mechanical Splicer details see sheet 22 of 25.
 6. UNO = Unless noted otherwise.
 7. s50(E) bars shall be flipped at every other vertical spacing such that the 90 degree bent leg is at the same location along the face of the wall.

PILE DATA

Type: HP14X89
 Nominal Required Bearing: 705 kips
 Factored Resistance Available: 384 kips
 Est. Length: 75 ft. (Pier 1)
 83 ft. (Pier 2)
 No. Production Piles: 76
 No. Test Piles: 2

FILE NAME: L:\DOT\19065\10\VO_10\Draws\Structures\CADD_Sheets\SN_083-0073\20_Pier_1_and_Pier_2.dgn



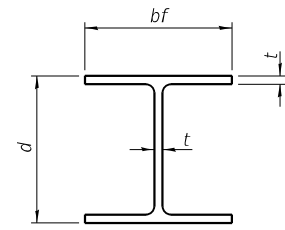
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PLOT SCALE = N/A	DRAWN - MAC	REVISED -
PLOT DATE = 12/8/2022 (2:55:03 PM)	CHECKED - DH/ATI	REVISED -
	DATE - 05/19/2022	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

PIER 1 AND PIER 2
 SN 083-0073

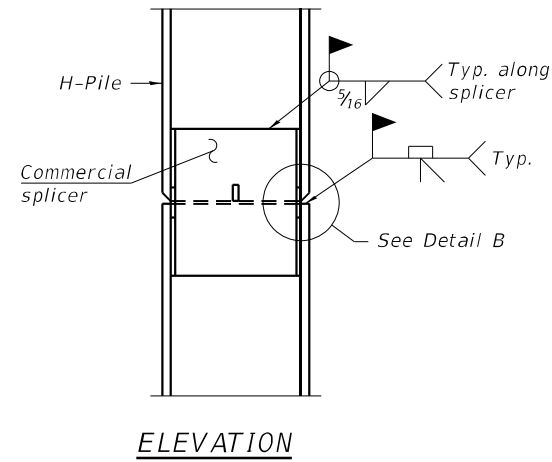
SCALE: SHEET 20 OF 25 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	29B-3	SALINE	150	80
CONTRACT NO. 78716				
ILLINOIS FED. AID PROJECT				

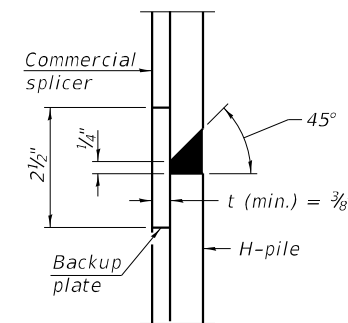


STEEL PILE TABLE

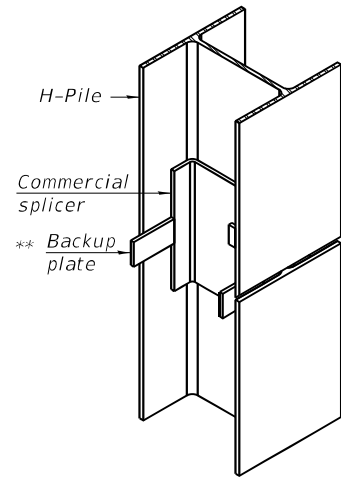
Designation	Depth d	Flange width bf	Web and Flange thickness t	Encasement diameter A
HP 14x117	14 1/4"	14 7/8"	1 3/16"	30"
x102	14"	14 3/4"	1 1/16"	30"
x89	13 7/8"	14 3/4"	5/8"	30"
x73	13 3/8"	14 3/8"	1/2"	30"
HP 12x84	12 1/4"	12 1/4"	1 1/16"	24"
x74	12 1/8"	12 1/4"	5/8"	24"
x63	12"	12 1/8"	1/2"	24"
x53	11 3/4"	12"	7/16"	24"
HP 10x57	10"	10 1/4"	9/16"	24"
x42	9 3/4"	10 1/8"	7/16"	24"
HP 8x36	8"	8 1/8"	7/16"	18"



ELEVATION

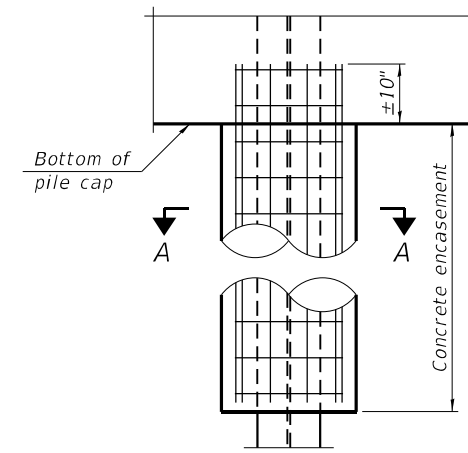


DETAIL "B"

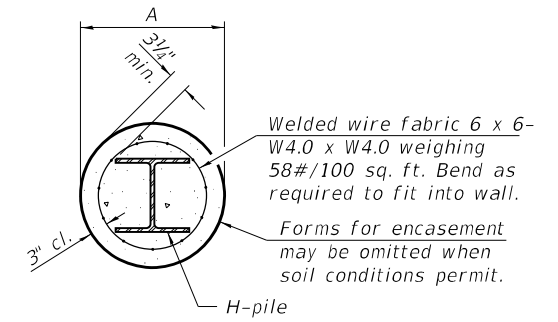


ISOMETRIC VIEW

WELDED COMMERCIAL SPLICE

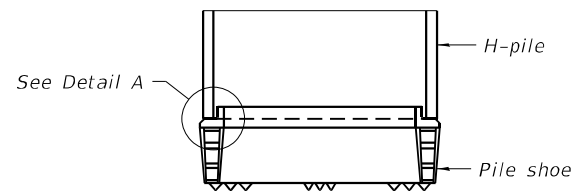


ELEVATION

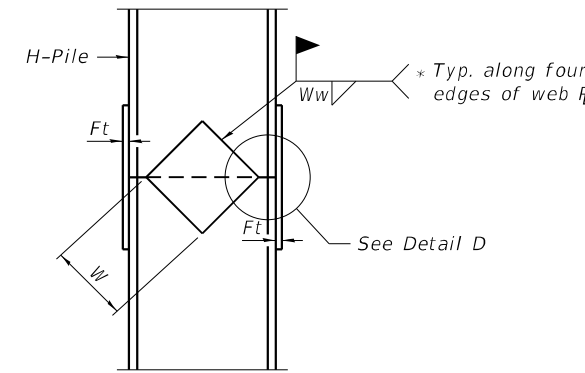


SECTION A-A

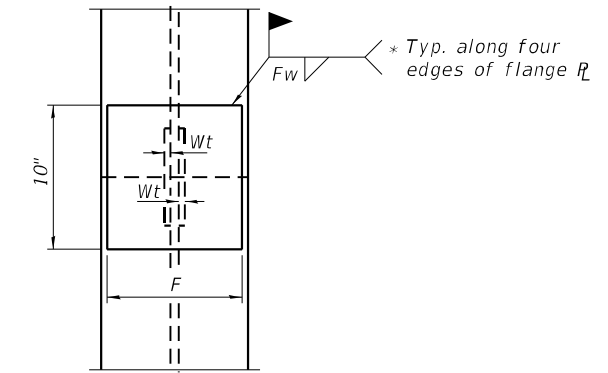
INDIVIDUAL PILE CONCRETE ENCASUREMENT (when specified)



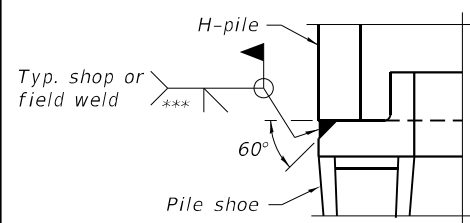
ELEVATION



ELEVATION

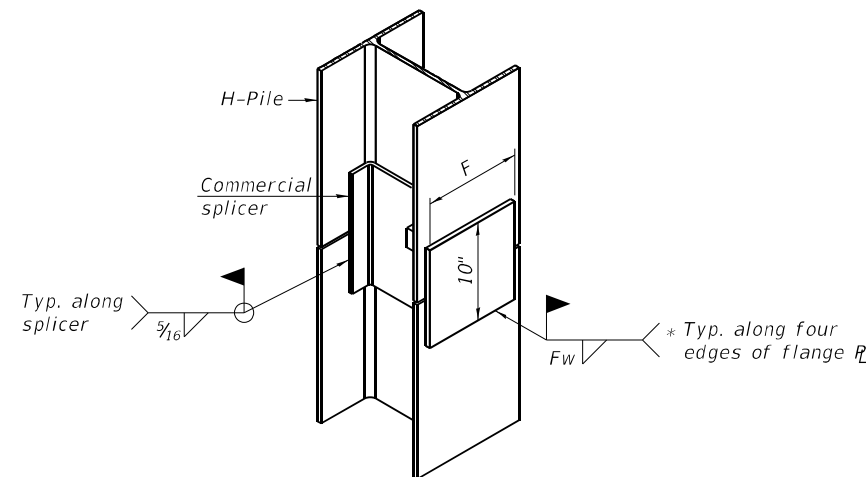


END VIEW



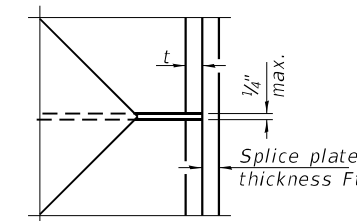
DETAIL A

SHOE ATTACHMENT



ISOMETRIC VIEW

WELDED COMMERCIAL SPLICE ALTERNATE



DETAIL D

WELDED PLATE FIELD SPLICE

Designation	F	Ft	Fw	W	Wt	Ww
HP 14x117	12 1/2"	1"	7/8"	7 3/4"	5/8"	1/2"
x102	12 1/2"	7/8"	3/4"	7 3/4"	5/8"	1/2"
x89	12 1/2"	3/4"	1 1/16"	7 3/4"	5/8"	1/2"
x73	12 1/2"	5/8"	9/16"	7 3/4"	5/8"	1/2"
HP 12x84	10"	7/8"	1 1/16"	6 1/2"	5/8"	1/2"
x74	10"	7/8"	1 1/16"	6 1/2"	5/8"	1/2"
x63	10"	5/8"	1/2"	6 1/2"	1/2"	3/8"
x53	10"	5/8"	1/2"	6 1/2"	1/2"	3/8"
HP 10x57	8"	3/4"	9/16"	5 1/4"	1/2"	3/8"
x42	8"	5/8"	9/16"	5 1/4"	1/2"	3/8"
HP 8x36	7"	5/8"	7/16"	4 1/4"	1/2"	3/8"

Note:
The steel H-piles shall be according to AASHTO M270 Grade 50.

* Interrupt welds 1/4" from end of web and/or each flange.

** Remove portions of backup plates that extend outside the flanges.

*** Weld size per pile shoe manufacturer (5/16" min.).

F-HP 1-1-2020

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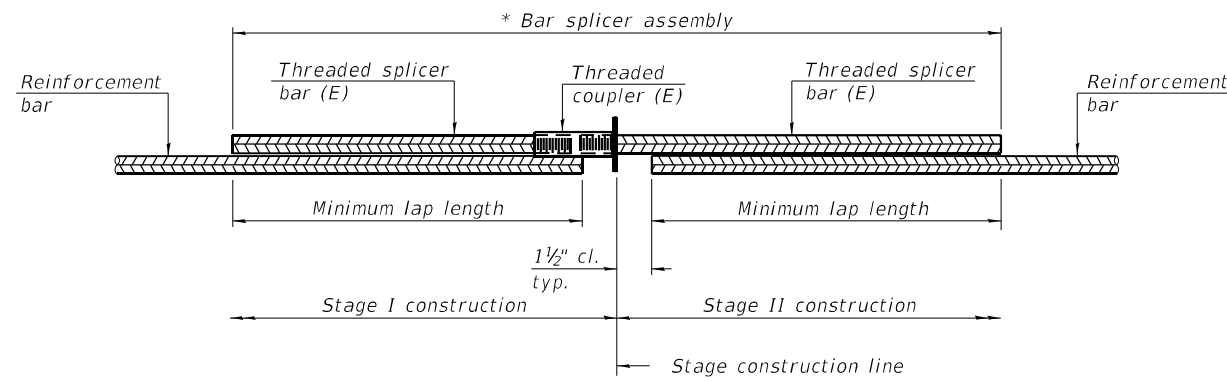
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PLOT DATE =	CHECKED - ATI	REVISED -
	DATE - 05/19/2022	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**PILE DETAILS
SN 083-0073**

SCALE: SHEET 21 OF 25 SHEETS STA. TO STA.

F.A.P. RTE. 332	SECTION 29B-3	COUNTY SALINE	TOTAL SHEETS 150	SHEET NO. 81
CONTRACT NO. 78716			ILLINOIS FED. AID PROJECT	

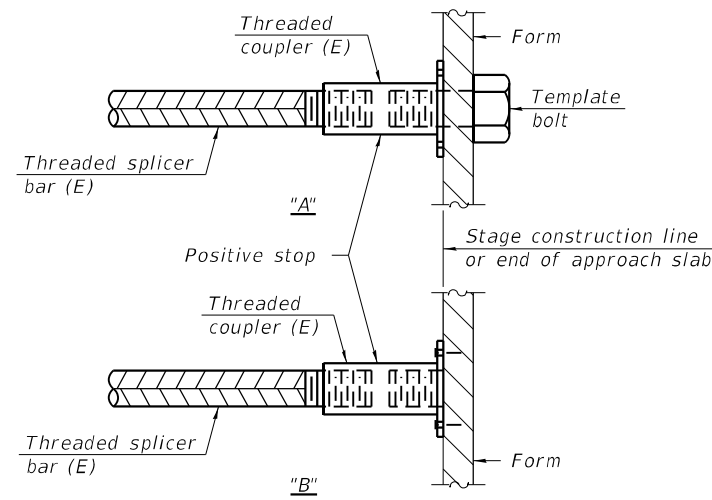


STANDARD BAR SPLICER ASSEMBLY PLAN
(All components shall be provided from one supplier)

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

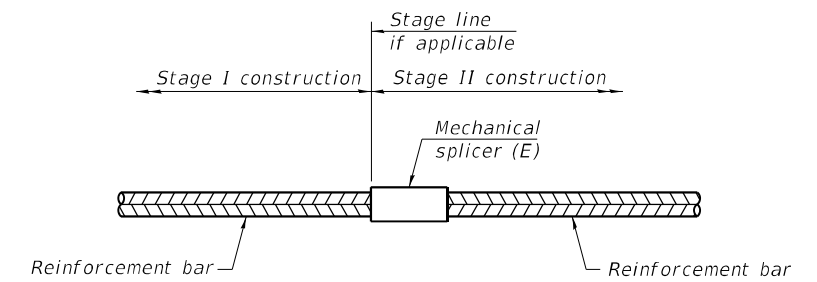
* Epoxy not required on Bar Splicer Assembly components used in conjunction with black bars.

Location	Bar size	No. assemblies required	Minimum lap length
Bridge Deck	#5	685	3'-6"
Diaphragms	#6	14	4'-0"
Approach Slabs	#5	172	3'-6"
Approach Slabs	#8	120	5'-4"
Abutments	#7	20	5'-0"
Piers - wall	#5	200	2'-5"
Piers - t/footing	#6	32	4'-4"
Piers - b/footing	#8	28	5'-1"



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
Piers - wall	#5	252
Piers - wall	#9	328

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

FILE NAME: L:\DOT\1906610\VO_10\DrawStructures\CADD_Sheets\SN_083-0073\083-0073-22_Bar_Splacers.dgn



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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**BAR SPLICER ASSEMBLY DETAILS
SN 083-0073**

SCALE: SHEET 22 OF 25 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	29B-3	SALINE	150	82
CONTRACT NO. 78716				
ILLINOIS FED. AID PROJECT				

Route: FAP 332 (US 45)
 Section: 29-B-Y
 County: Saline

Boring No: 2-S
 Station: 737+28
 Offset: 11' Lt CL
 Ground Surface: 368.4 Ft

DEPT H	BLOWS	Qu tsf	W%	DEPT H	BLOWS	Qu tsf	W%
Very stiff, moist, grey, Silty Clay to Silty Clay Loam A-6	2			Stiff, moist, grey, Clay to Silty Clay A7-6	3		
	7	3.3B	19		6	1.9B	27
	10				8		
55.0				80.0			
	8				2		
	13	3.1B	20		3	1.6B	27
	14				5		
60.0				85.0			
	3						
	7	2.7B	25				
	11						
303.4	65.0			278.4	90.0		
Stiff, moist to very moist, grey, Silty Clay A7-6	2			Very soft, very moist, grey, Silt Loam to Silty Clay Loam A-4	2		
	5	1.6B	26		4	0.2B	21
	7				3		
298.4	70.0			95.0			
293.4	75.0			268.4	100.0		

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

Route: FAP 332 (US 45)
 Section: 29-B-Y
 County: Saline

Boring No: 2-S
 Station: 737+28
 Offset: 11' Lt CL
 Ground Surface: 368.4 Ft

DEPT H	BLOWS	Qu tsf	W%	DEPT H	BLOWS	Qu tsf	W%
Very soft, very moist, grey, Silty Clay Loam A-6	WH						
	1	0.2B	25				
	1						
265.4							
Hard, dry to damp, grey, Clay Shale							
105.0				130.0			
110.0				135.0			
257.9							
115.0				140.0			
120.0				145.0			
125.0				150.0			

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

FILE NAME: L:\DOT\1906610\NOV_10\Draw\Structures\CADD_Sheets\SN_083-0073-25_Soil Borings - III.dgn



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PLLOT SCALE = N/A	DRAWN - DH	REVISD -
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	DATE - 05/19/2022	REVISD -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

SCALE:	SHEET 25 OF 25 SHEETS		STA.	TO STA.	F.A.P. RTE. = 332	SECTION = 29B-3	COUNTY = SALINE	TOTAL SHEETS = 150	SHEET NO. = 85
					SOIL BORING - III				
	SN 083-0073					CONTRACT NO. 78716			
					ILLINOIS FED. AID PROJECT				

BENCHMARK:

Chiseled "□" on top of wingwall of NW corner of Structure 083-0002 along US 45, Sta. 705+88, Offset 17.00' Rt., Elevation 370.45.

SALVAGE:

None

EXISTING STRUCTURE:

SN 083-0002 was originally built in 1953 under SBI-1, Section 29-B-Y. The structure is a 4-span continuous bridge with stub abutments and an overall length of 246'-6" from back to back of abutments. The superstructure consists of a 7" thick slab supported on haunched reinforced concrete T-beams. The width of the structure is 33'-8" out to out of deck. The piers are reinforced concrete solid wall piers on untreated timber piles. The structure is to be removed and replaced using staged construction to maintain one lane of traffic open at all times.

DESIGN SPECIFICATIONS:

2020 AASHTO LRFD Bridge Design Specifications, 9th Edition.

LOADING HL-93:

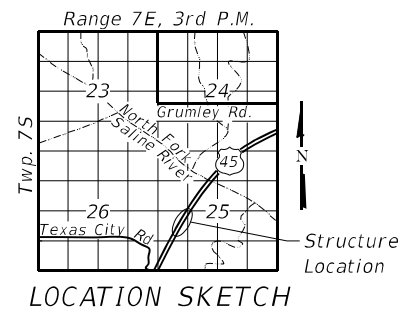
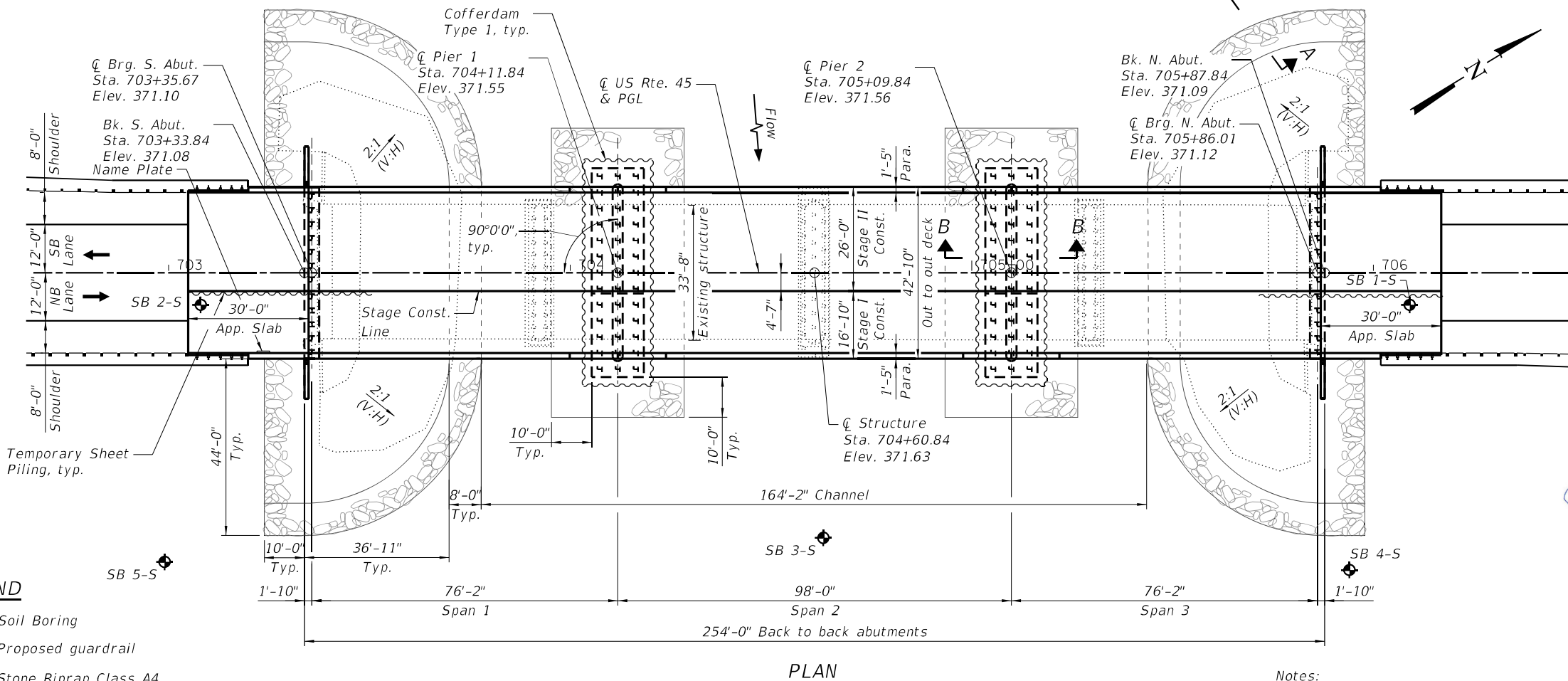
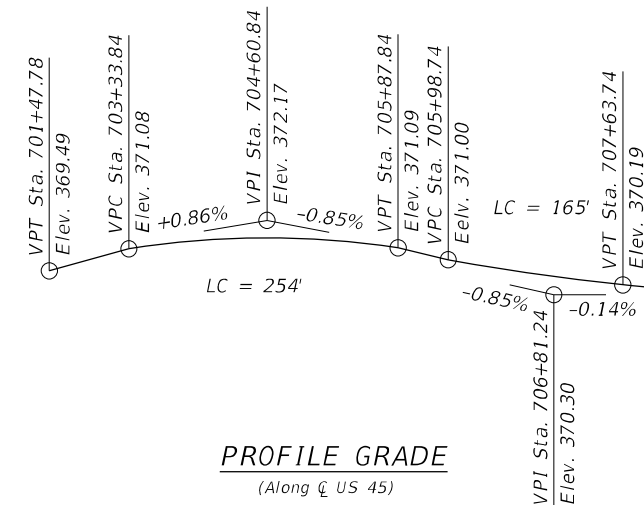
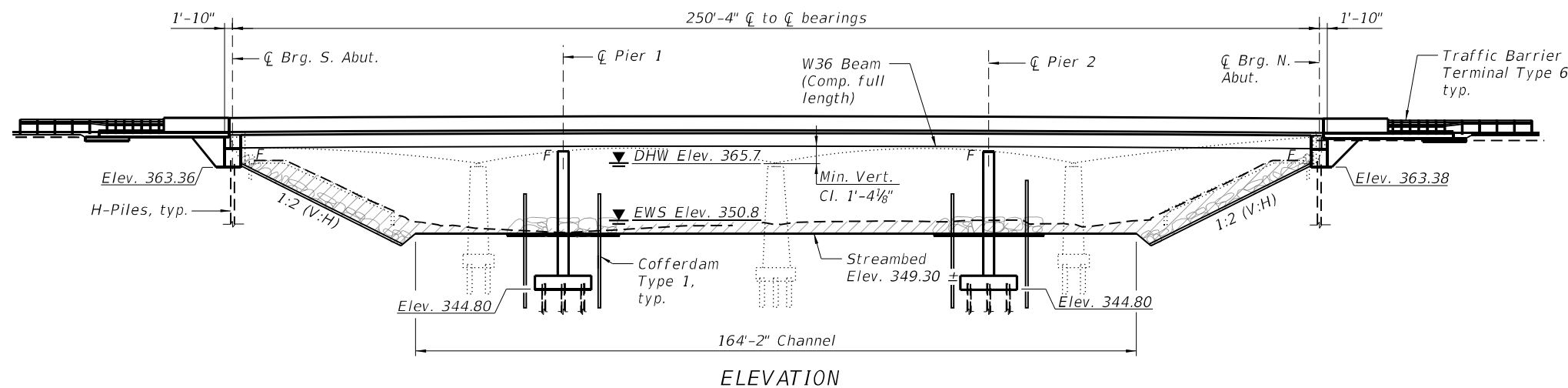
Allow 50 #/sq.ft. for future wearing surface.

SEISMIC DATA:

Seismic Performance Zone (SPZ) = 3
Design Spectral Acceleration at 1.0 sec. (S_{D1}) = 0.319g
Design Spectral Acceleration at 2.0 sec. (S_{D5}) = 0.755g
Soil Site Class = D

DESIGN STRESSES:

FIELD UNITS
 f'_c = 4,000 psi (superstructure)
 f'_c = 3,500 psi
 f_y = 60,000 psi (reinforcement)
 f_y = 50,000 psi (M270 Grade 50W)



Ahmad T. Idress
EXP. 11-30-2024

APPROVED
For Structural Adequacy Only
James F. Schuff
Engineer of Bridges & Structures

GENERAL PLAN
US ROUTE 45
OVER NORTH FORK SALINE RIVER OVERFLOW
FAP ROUTE 332 - SECTION (29B-4)
SALINE COUNTY
STA. 704+60.84
STRUCTURE NO. 083-0074

Notes:
1. See Sheet 2 of 28 for Section A-A and B-B.
2. See Roadway Plans for Channel Excavation limits and quantity.

LEGEND

- Soil Boring
- Proposed guardrail
- Stone Riprap Class A4
- Channel Excavation (See Roadway Plans)

	USER NAME = Derek Cochran	DESIGNED - DH	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	GENERAL PLAN AND ELEVATION SN 083-0074		F.A.P. RTE. 332	SECTION 29B-4	COUNTY SALINE	TOTAL SHEETS 150	SHEET NO. 86
	PLOT SCALE = N/A	CHECKED - ATI	REVISED -		SCALE:	SHEET 1 OF 28 SHEETS	STA. TO STA.	ILLINOIS FED. AID PROJECT		CONTRACT NO. 78716	
License No. 184-000613	PLOT DATE = 12/8/2022 (3:32:28 PM)	DATE - 05/19/2022	REVISED -								

INDEX OF SHEETS

- 1 General Plan and Elevation
- 2 General Data and Bill of Materials
- 3 Staging Construction Details
- 4 Temporary Concrete Barrier
- 5 Removal Details and Footing Plan
- 6 Deck Elevations - I
- 7 Deck Elevations - II
- 8 Approach Slab Elevations
- 9 Superstructure - I
- 10 Superstructure - II
- 11 Superstructure Details - I
- 12 Superstructure Details - II
- 13 Diaphragm Details
- 14 Bridge Approach Slab Plan
- 15 Bridge Approach Slab Details
- 16 Framing Plan
- 17 Beam and Steel Details
- 18 Moment and Reaction Tables
- 19 North and South Abutment
- 20 Pier 1 and Pier 2
- 21 Pile Details
- 22 Bar Splicer Assembly Details
- 23 Soil Boring Log - I
- 24 Soil Boring Log - II
- 25 Soil Boring Log - II
- 26 Soil Boring Log - II
- 27 Soil Boring Log - II
- 28 Soil Boring Log - II

GENERAL NOTES

- 1. Fasteners shall be ASTM F3125 Grade A325 Type 1, mechanically galvanized bolts in painted areas and ASTM F3125 Grade A325 Type 3 in unpainted areas. Bolts 3/4 in. Ø, holes 1 1/16 in. Ø, unless otherwise noted.
- 2. Calculated weight of Structural Steel = 337,594
- 3. All structural steel shall be AASHTO M270 Grade 50W except bearings which shall be AASHTO M270 Grade 50.
- 4. No field welding is permitted except as specified in the contract documents.
- 5. Reinforcement bars designated (E) shall be epoxy coated.
- 6. Bearing seat surfaces shall be constructed or adjusted to the designated elevations within a tolerance of 1/8 inch (0.01 ft.). Adjustment shall be made either by grinding the surface or by shimming the bearings.
- 7. Structural steel shall only be painted for a distance equal to the depth of embedment into the concrete cap plus 1'-6" inches. Painted areas shall be primed in the shop with a Department approved zinc rich primer. Field painting will not be required.
- 8. Layout of the slope protection system may be varied to suit ground conditions in the field as directed by the Engineer.
- 9. Bridge seat reinforcement shall be carefully placed as detailed in the plans to avoid interference with drilling holes for anchor rods. The beams shall be erected in final position prior to drilling holes for and placing anchor rods.
- 10. No construction joint except those shown on the plans will be allowed unless approved by the engineer.
- 11. It shall be the Contractor's responsibility to verify the location of utilities prior to starting construction. Contact J.U.L.I.E., 800-892-0123.
- 12. The Contractor shall obtain a construction permit from the Illinois Department of Natural Resources (IDNR), Office of Water Resources for any temporary construction activity placed in the water except cofferdams. This shall include the placement of material for run-arounds, causeways, etc. Any permit application by the Contractor shall refer to the IDNR 3704 Floodway Construction permit number allowing permanent construction as shown in the contract plans.
- 13. Slipforming of the parapets is not allowed.
- 14. The cost of bridge rail removal is included in Removal of Existing Structures No. 2.

TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Stone Riprap, Class A4	Sq Yd		2,008	2,008
Filter Fabric	Sq Yd		2,008	2,008
Removal of Existing Structures No. 2	Each		1	1
Slope Wall Removal	Sq Yd		1,965	1,965
Structure Excavation	Cu Yd		204	204
Cofferdam Excavation	Cu Yd		317	317
Cofferdam (Type 1) (Location - 1)	Each		2	2
Concrete Structures	Cu Yd		393.7	393.7
Concrete Superstructure	Cu Yd	384.8		384.8
Bridge Deck Grooving	Sq Yd	1,317		1,317
Protective Coat	Sq Yd	1,671		1,671
Concrete Superstructure (Approach Slab)	Cu Yd	116.8		116.8
Furnishing and Erecting Structural Steel	L Sum	0.46		0.46
Stud Shear Connectors	Each	5,502		5,502
Reinforcement Bars, Epoxy Coated	Pound	143,280	67,850	211,130
Bar Splicers	Each	1,062	200	1,262
Mechanical Splicers	Each		496	496
Furnishing Steel Piles HP14x89	Foot		8,356	8,356
Driving Piles	Foot		8,356	8,356
Test Pile Steel HP14x89	Each		4	4
Name Plates	Each	1		1
Anchor Bolts, 1"	Each	56		56
Temporary Sheet Piling	Sq Ft		768	768
Granular Backfill for Structures	Cu Yd		118	118
Geocomposite Wall Drain	Sq Yd		68	68
Pipe Underdrains for Structures 4"	Foot		106	106

WATERWAY INFORMATION TABLE

Drainage Area = 250 sq. mi.		Exist. Low Grade Elev. 365.48 ft. @ Sta. 753+00		Prop. Low Grade Elev. 365.48 ft. @ Sta. 753+00		Nat. H.W.E.	Head - Ft.		Headwater El.	
Flood	Freq. Yr.	Ex. Q C.F.S.	Pr. Q C.F.S.	Opening Sq. Ft. Exist.	Opening Sq. Ft. Prop.		Exist.	Prop.	Exist.	Prop.
Main Channel		6685	5690	2703	3833					
Relief Structure	10	3315	4410	2227	2838	363.3	0.3	0.1	363.6	363.4
Total		10100	10100	4930	6671					
Design										
Main Channel	50	10550	8280	3178	4258	365.7	0.2	0.2	365.9	365.9
Relief Structure		4350	6820	2735	3404					
Total		15100	15100	5913	7662					
Base										
Main Channel	100	12970	9550	3293	4428	366.5	0.2	0.2	366.7	366.0
Relief Structure		4330	7650	2878	3597					
Total		17200	17200	6171	8025					
Overtop. Existing										
Main Channel	200	10190	10620	3327	4524	367.2	0.2	0.1	367.4	367.3
Relief Structure		9110	8780	2974	3703					
Total		19400	19400	6301	8227					
Scour Design Check										
Main Channel	200	10620	8495	3194	4276	365.8	0.2	0.2	366.0	366.0
Relief Structure		4680	6805	2753	3428					
Total		15300	15300	5947	7704					
Max. Calc. OVERTOPPING OCCURS ABOVE THE 500 YR. FLOOD										
Main Channel	500	15090	12275	3327	4524	368.1	0.2	0.1	368.3	368.2
Relief Structure		7210	10225	2991	3703					
Total		22500	22500	6318	8227					

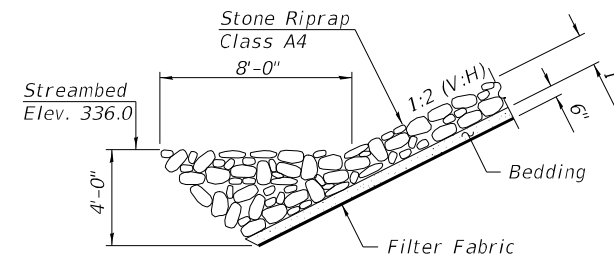
10 Year velocity through existing bridge = 1.49 ft/s
 10 Year velocity through proposed bridge = 1.55 ft/s
 All-time HWE and Date: HWE = 366.8' on 5/6/2011

STATION 704+60.84
 BUILT 20 BY
 STATE OF ILLINOIS
 F.A.P. RT. 332 SEC. 29B-4
 LOADING HL-93
 STRUCTURE NO. 083-0074

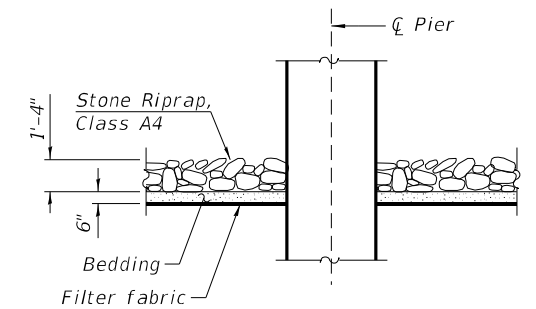
NAME PLATE
 See Std. 515001

DESIGN SCOUR ELEVATION TABLE

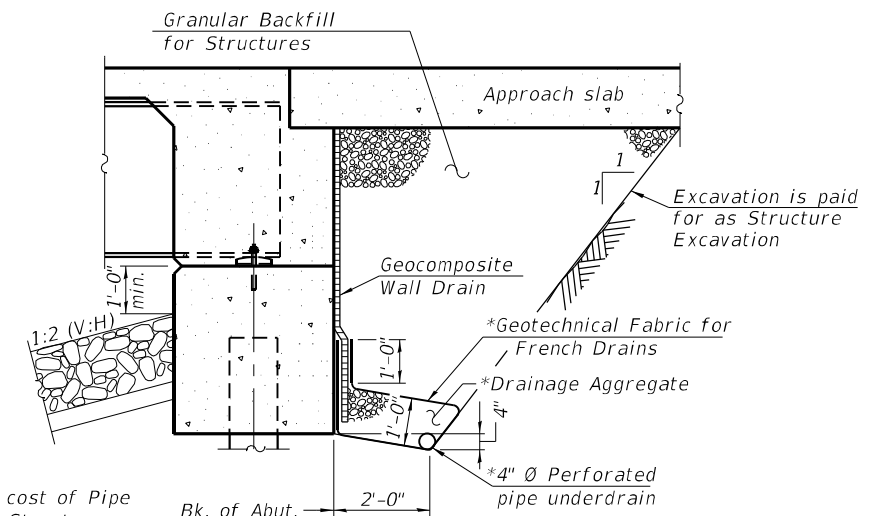
Event/Limit State	South Abut.	Pier 1	Pier 2	North Abut.	Item 113
Q100	363.36	318.75	317.12	363.38	5
Q200	363.36	315.17	312.74	363.38	
Design	363.36	318.75	317.12	363.38	
Check	363.36	315.17	312.74	363.38	



SECTION A-A



SECTION B-B



*Included in the cost of Pipe Underdrains for Structures. (See Special Provisions)

SECTION THRU ABUT.
 (Showing backfill and drainage details)



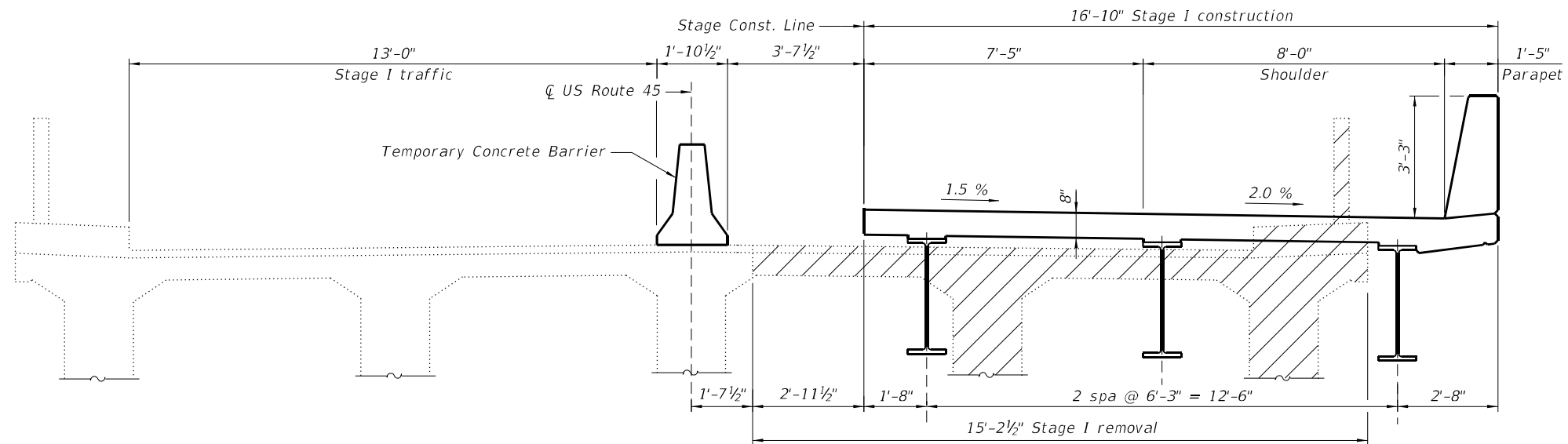
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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

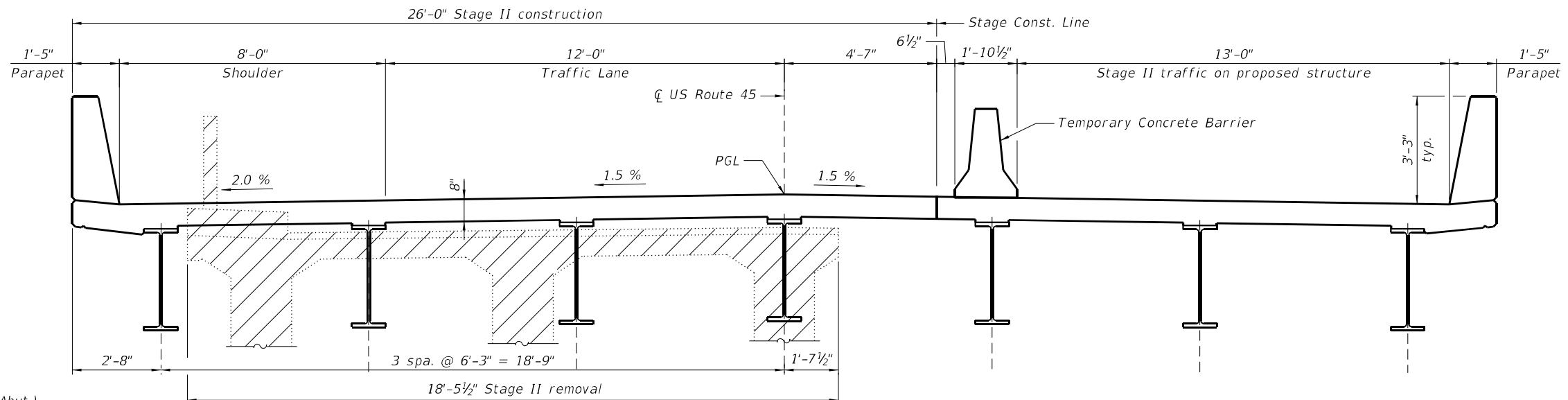
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 SN 083-0074**

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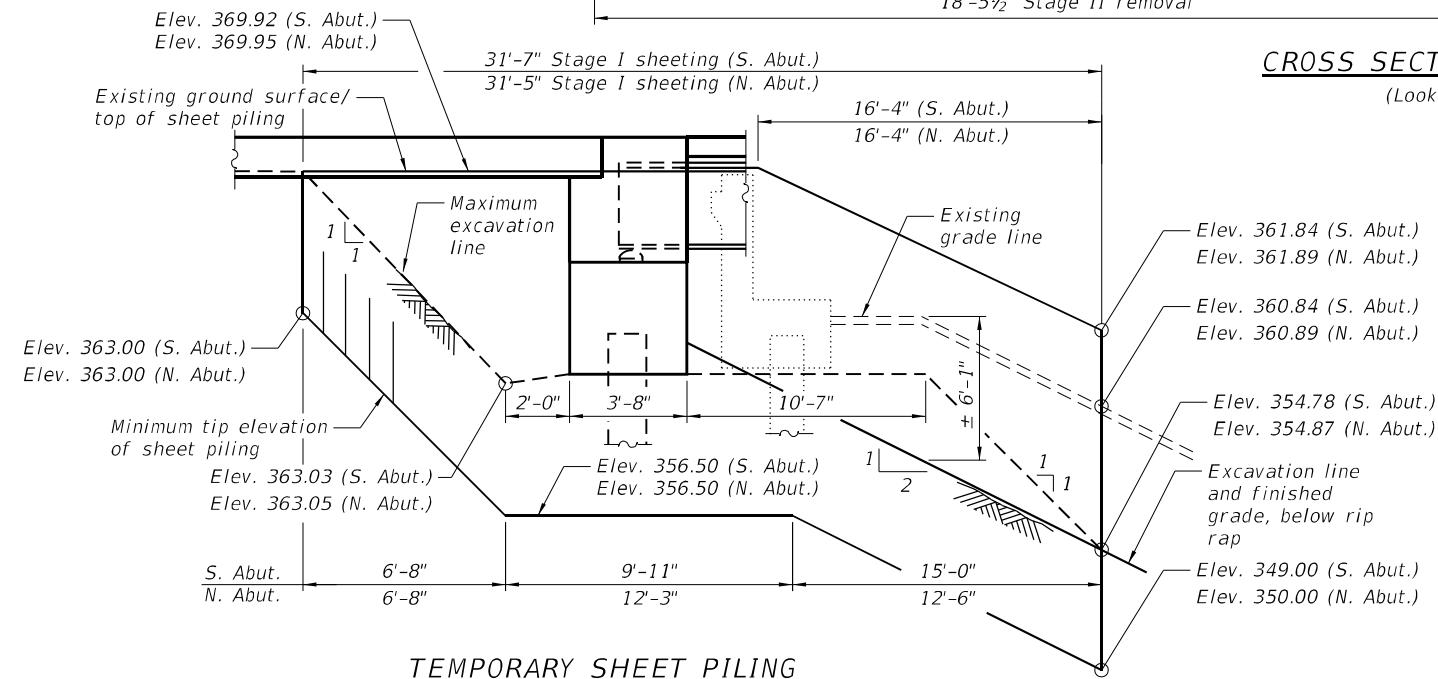
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332	29B-4	SALINE	150	87
CONTRACT NO. 78716				
ILLINOIS FED. AID PROJECT				



CROSS SECTION - STAGE I
(Looking North)




CROSS SECTION - STAGE II
(Looking North)



TEMPORARY SHEET PILING

LEGEND

 Existing structure removal

Notes:

1. If the Contractor chooses to alter the temporary cantilevered 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.
2. See sheet 4 of 28 for Temporary Concrete Barrier details.

Minimum Section Modulus:

3.9 in.³/ft. (S. Abut.)
3.9 in.³/ft. (N. Abut.)

FILE NAME: L:\DOT\1906610\VO_10\DrawStructures\CADD_Sheets\SN_083-0074\02-StageI.dwg



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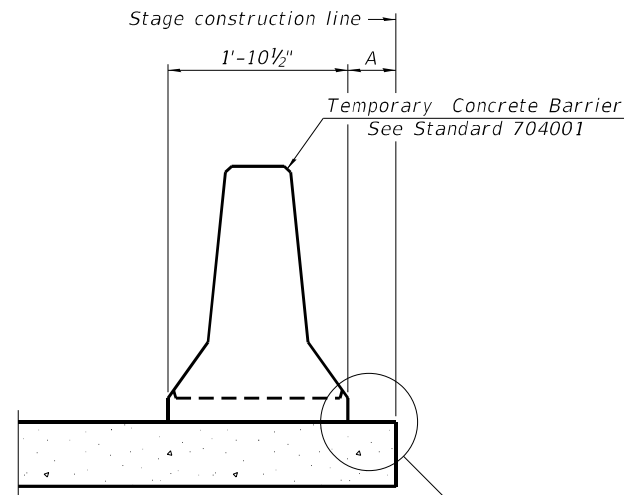
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**STAGE CONSTRUCTION DETAILS
SN 083-0074**

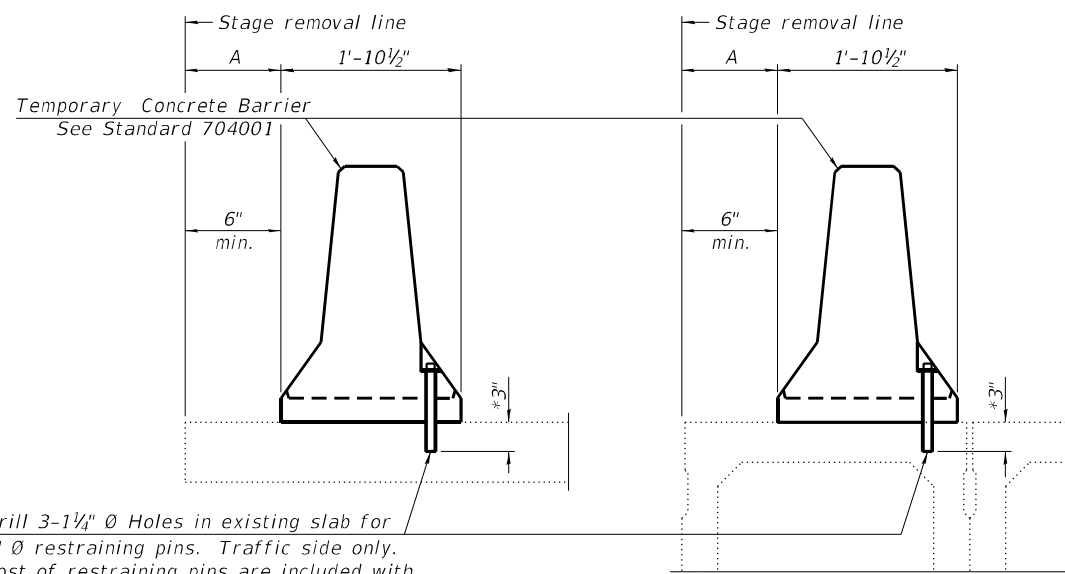
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332	29B-4	SALINE	150	88
CONTRACT NO. 78716				
ILLINOIS FED. AID PROJECT				



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

NEW SLAB OR NEW DECK BEAM

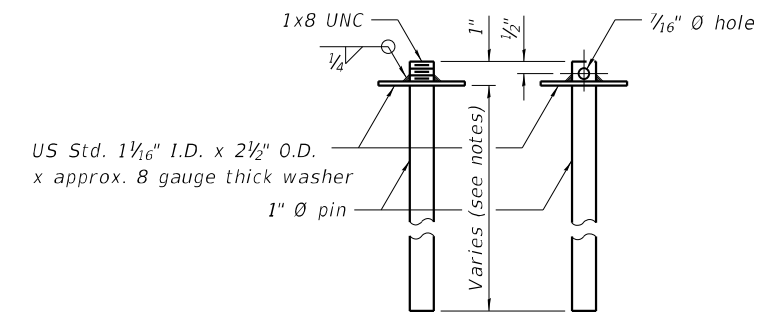


Drill 3-1/4" Ø Holes in existing slab for 1" Ø restraining pins. Traffic side only. Cost of restraining pins are included with Temporary Concrete Barrier. No restraint is required when "A" is greater than 3'-1".

EXISTING SLAB

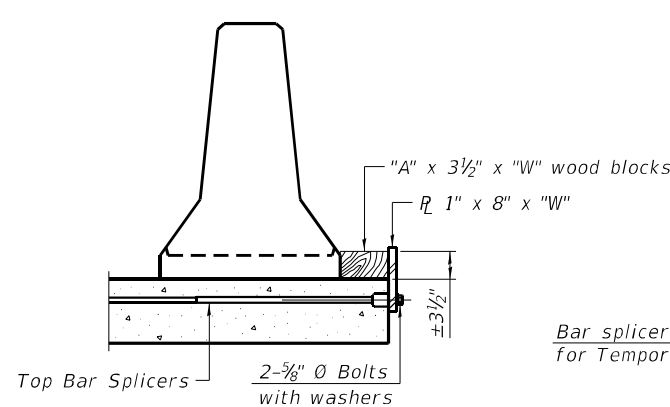
* When hot-mix asphalt wearing surface is present, embedment shall be 3" plus the wearing surface depth.

EXISTING DECK BEAM

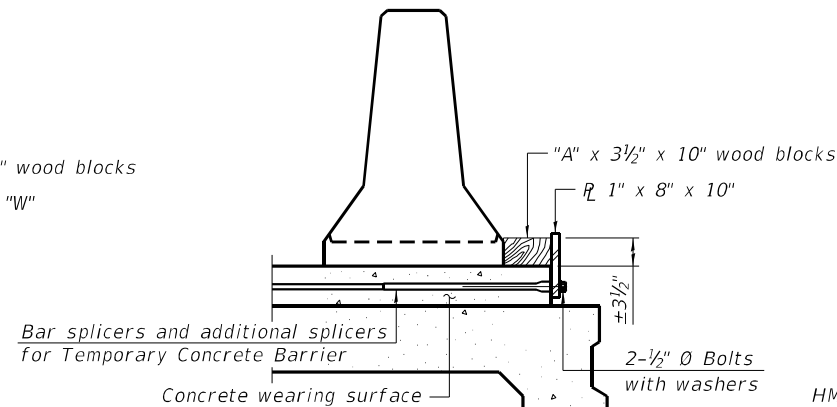


RESTRAINING PIN

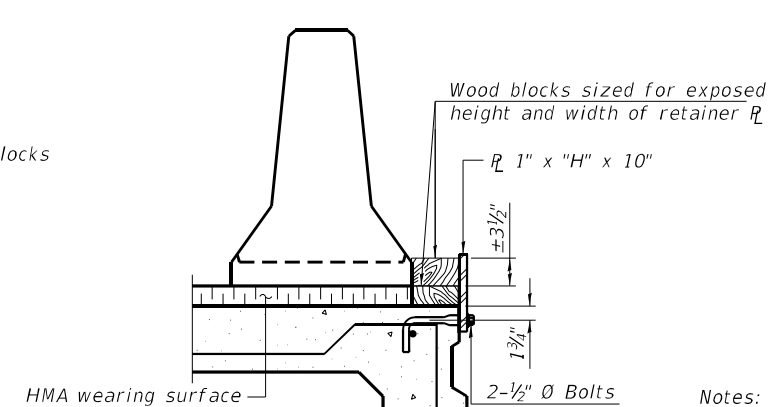
SECTIONS THRU SLAB OR DECK BEAM



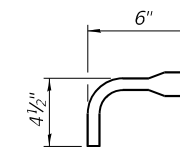
DETAIL I



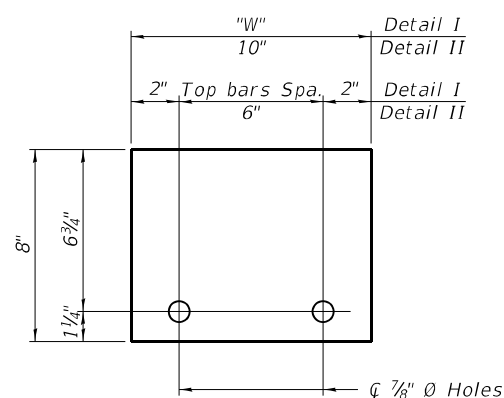
DETAIL II



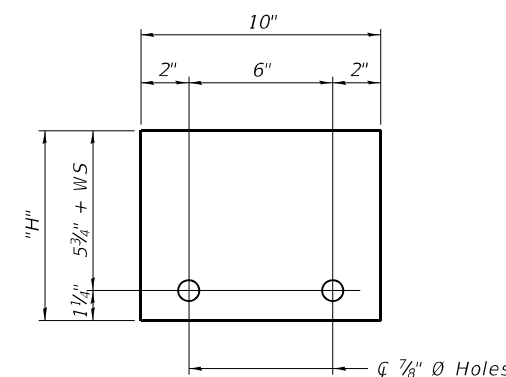
DETAIL III



BAR SPLICER FOR #4 BAR - DETAIL III



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



STEEL RETAINER R 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 $\frac{1}{2}$ 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.

RAILING CRITERIA

NCHRP 350 Test Level	3
Railing Weight (plf)	440

R-27 10-12-2021



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	DRAWN - MAC	REVISED -
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

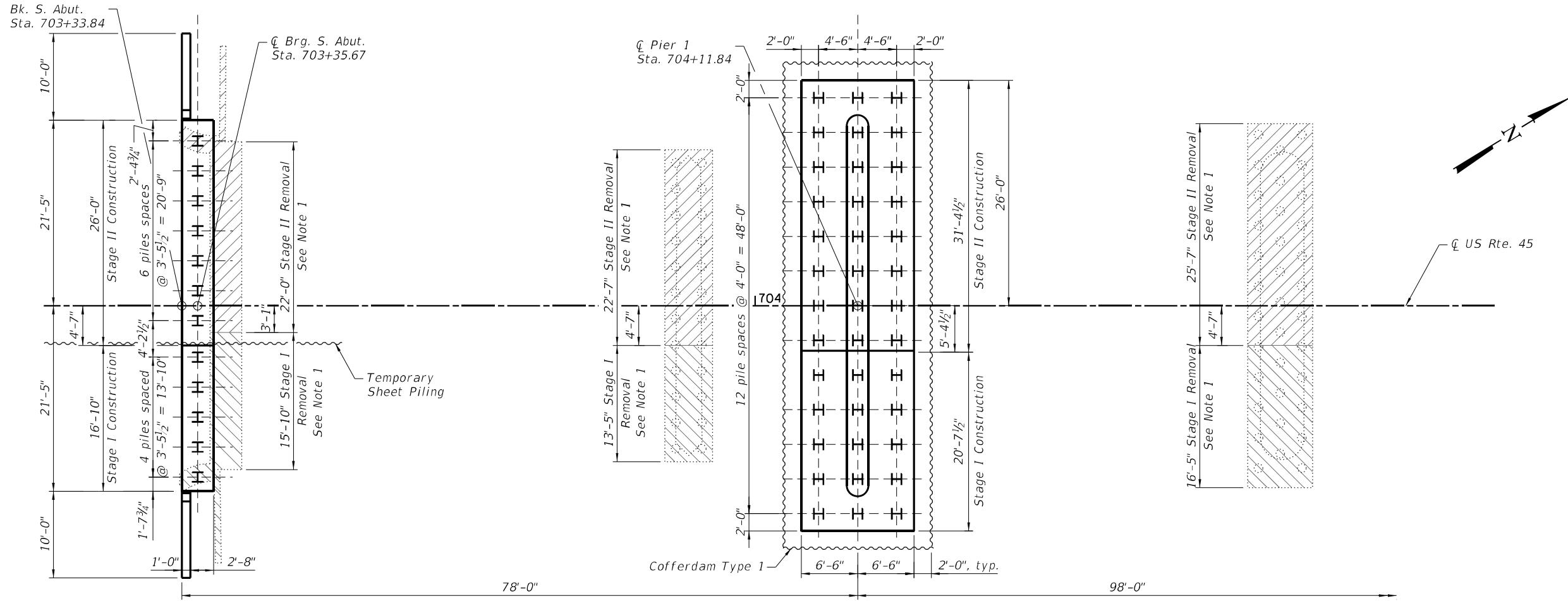
TEMPORARY CONCRETE BARRIER
SN 083-0074

SCALE: SHEET 4 OF 28 SHEETS STA. TO STA.

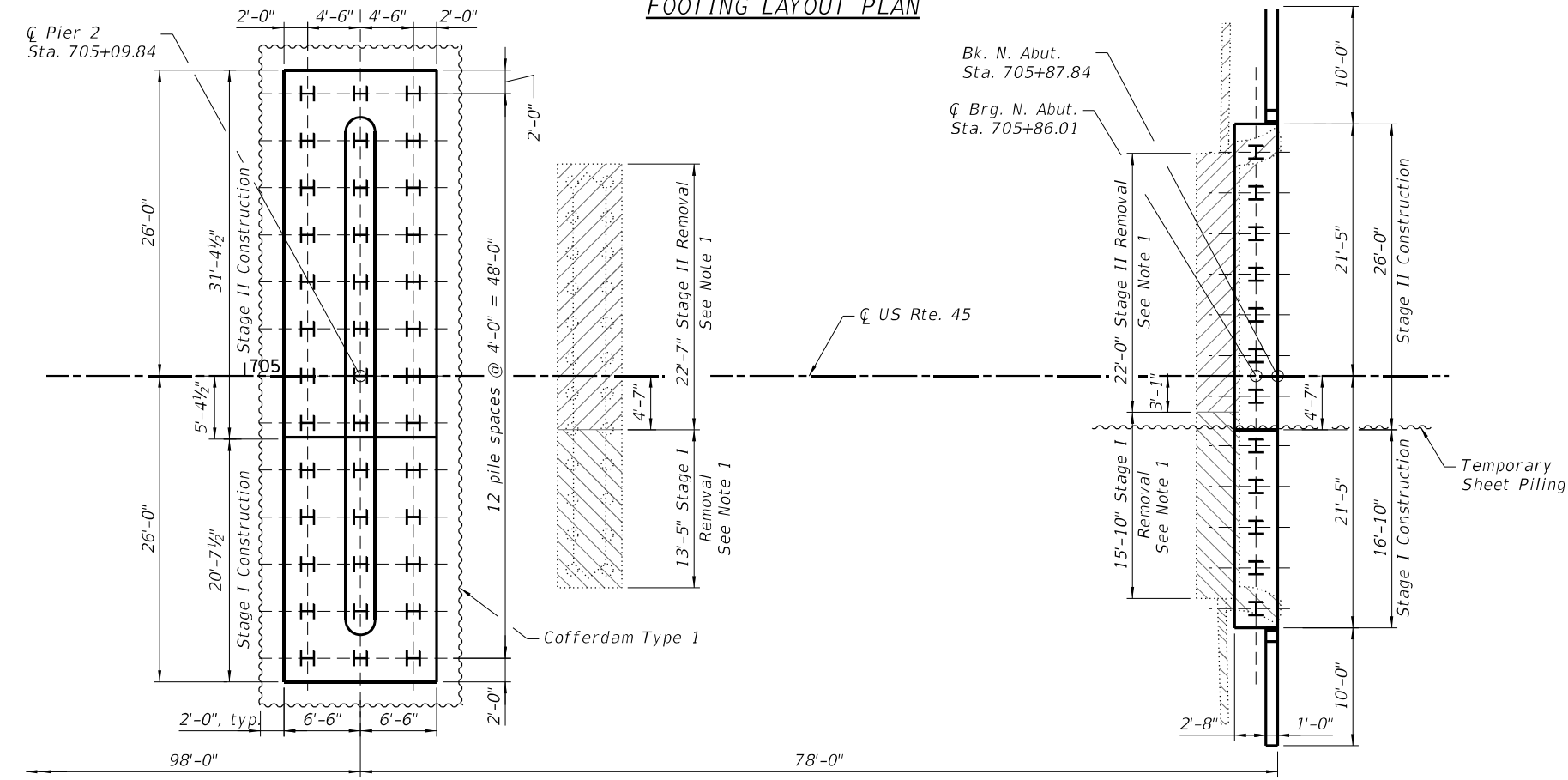
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CONTRACT NO. 78716				
ILLINOIS FED. AID PROJECT				

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FILE NAME: L:\DOT\1906610\WO_10\DrawStructures\CADD_Sheets\SN_083-0074\DOT\1906610_05_Removal Details and Footing Plan.dgn



FOOTING LAYOUT PLAN



FOOTING LAYOUT PLAN

LEGEND

- Stage I abutment and pier removal
- Stage II abutment and pier removal

- Notes:
1. Cost of existing abutment and pier removal included in payment for Removal of Existing Structures No. 2.
 2. Cost of existing retaining wall removal included in payment for Concrete Removal.
 3. See sheet 3 of 28 for Temporary Sheet Piling details.
 4. See sheet 3 of 28 for superstructure stage limits.



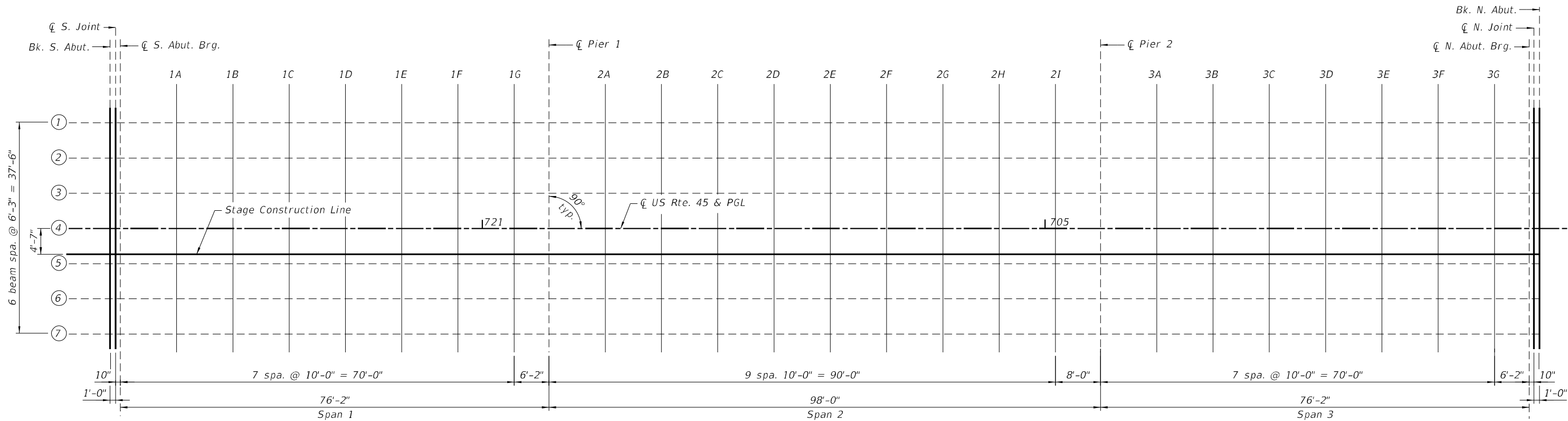
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

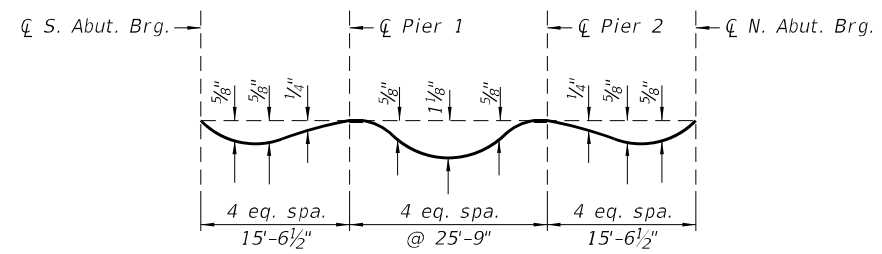
**REMOVAL DETAILS AND FOOTING PLAN
SN 083-0074**

SCALE: SHEET 5 OF 28 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	29B-4	SALINE	150	90
CONTRACT NO. 78716				
ILLINOIS FED. AID PROJECT				

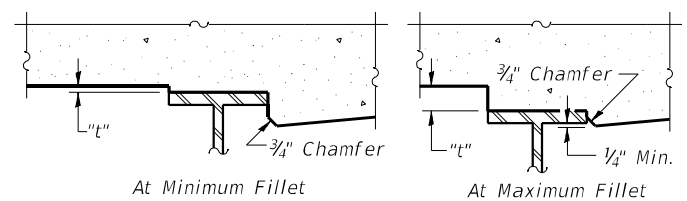


DECK ELEVATION LAYOUT



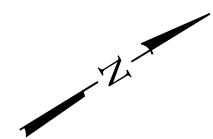
DEAD LOAD DEFLECTION DIAGRAM
(Includes weight of concrete only).

Note:
The above deflections are not to be used in the field if the engineer is working from the grade elevations adjusted for dead load deflections as shown on this sheet and sheet 7 of 28.



To determine "t": After all structural steel has been erected, elevations of the top flanges of the girders shall be taken at intervals shown above. These elevations subtracted from the "Theoretical Grade Elevations Adjusted for Dead Load Deflection" shown on this sheet and on sheet 7 of 28, minus slab thickness, equals the fillet heights "t" above top flange of girders.

FILLET HEIGHTS



BEAM 1

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. S. Abut.	703+33.84	18.75	370.77	370.77
CL S. Joint	703+34.84	18.75	370.77	370.77
CL Brg. S. Abut.	703+35.67	18.75	370.78	370.78
1A	703+45.67	18.75	370.86	370.89
1B	703+55.67	18.75	370.94	370.99
1C	703+65.67	18.75	371.01	371.07
1D	703+75.67	18.75	371.07	371.12
1E	703+85.67	18.75	371.12	371.16
1F	703+95.67	18.75	371.17	371.19
1G	704+05.67	18.75	371.21	371.21
CL Pier 1	704+11.84	18.75	371.23	371.23
2A	704+21.84	18.75	371.26	371.27
2B	704+31.84	18.75	371.29	371.33
2C	704+41.84	18.75	371.31	371.38
2D	704+51.84	18.75	371.32	371.41
2E	704+61.84	18.75	371.32	371.41
2F	704+71.84	18.75	371.32	371.40
2G	704+81.84	18.75	371.31	371.37
2H	704+91.84	18.75	371.29	371.33
2I	705+01.84	18.75	371.27	371.28
CL Pier 2	705+09.84	18.75	371.24	371.24
3A	705+19.84	18.75	371.21	371.22
3B	705+29.84	18.75	371.17	371.19
3C	705+39.84	18.75	371.12	371.16
3D	705+49.84	18.75	371.06	371.11
3E	705+59.84	18.75	371.00	371.05
3F	705+69.84	18.75	370.93	370.97
3G	705+79.84	18.75	370.85	370.87
CL Brg. N. Abut.	705+86.01	18.75	370.80	370.80
CL N. Joint	705+86.84	18.75	370.80	370.80
Bk. N. Abut.	705+87.84	18.75	370.78	370.78

BEAM 2

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. S. Abut.	703+33.84	12.50	370.89	370.89
CL S. Joint	703+34.84	12.50	370.90	370.90
CL Brg. S. Abut.	703+35.67	12.50	370.91	370.91
1A	703+45.67	12.50	370.99	371.02
1B	703+55.67	12.50	371.06	371.11
1C	703+65.67	12.50	371.13	371.19
1D	703+75.67	12.50	371.19	371.24
1E	703+85.67	12.50	371.25	371.29
1F	703+95.67	12.50	371.30	371.32
1G	704+05.67	12.50	371.34	371.34
CL Pier 1	704+11.84	12.50	371.36	371.36
2A	704+21.84	12.50	371.39	371.41
2B	704+31.84	12.50	371.41	371.45
2C	704+41.84	12.50	371.43	371.50
2D	704+51.84	12.50	371.44	371.53
2E	704+61.84	12.50	371.44	371.54
2F	704+71.84	12.50	371.44	371.53
2G	704+81.84	12.50	371.43	371.50
2H	704+91.84	12.50	371.41	371.45
2I	705+01.84	12.50	371.39	371.40
CL Pier 2	705+09.84	12.50	371.37	371.37
3A	705+19.84	12.50	371.33	371.34
3B	705+29.84	12.50	371.29	371.32
3C	705+39.84	12.50	371.24	371.29
3D	705+49.84	12.50	371.19	371.25
3E	705+59.84	12.50	371.12	371.18
3F	705+69.84	12.50	371.05	371.09
3G	705+79.84	12.50	370.98	371.00
CL Brg. N. Abut.	705+86.01	12.50	370.93	370.93
CL N. Joint	705+86.84	12.50	370.92	370.92
Bk. N. Abut.	705+87.84	12.50	370.90	370.90

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**DECK ELEVATIONS - I
SN 083-0074**

SCALE: SHEET 6 OF 28 SHEETS STA. TO STA.

F.A.P. RTE. 332	SECTION 29B-4	COUNTY SALINE	TOTAL SHEETS 150	SHEET NO. 91
CONTRACT NO. 78716				
ILLINOIS FED. AID PROJECT				

BEAM 3

Table with 5 columns: Location, Station, Offset, Theoretical Grade Elevations, Theoretical Grade Elevations Adjusted For Dead Load Deflection. Rows include Bk. S. Abut., CL S. Joint, CL Brg. S. Abut., CL Pier 1, CL Pier 2, CL Brg. N. Abut., CL N. Joint, Bk. N. Abut.

BEAM 4, CL US RTE. 45, & PGL

Table with 5 columns: Location, Station, Offset, Theoretical Grade Elevations, Theoretical Grade Elevations Adjusted For Dead Load Deflection. Rows include Bk. S. Abut., CL S. Joint, CL Brg. S. Abut., CL Pier 1, CL Pier 2, CL Brg. N. Abut., CL N. Joint, Bk. N. Abut.

STAGE CONSTRUCTION LINE

Table with 5 columns: Location, Station, Offset, Theoretical Grade Elevations, Theoretical Grade Elevations Adjusted For Dead Load Deflection. Rows include Bk. S. Abut., CL S. Joint, CL Brg. S. Abut., CL Pier 1, CL Pier 2, CL Brg. N. Abut., CL N. Joint, Bk. N. Abut.

BEAM 5

Table with 5 columns: Location, Station, Offset, Theoretical Grade Elevations, Theoretical Grade Elevations Adjusted For Dead Load Deflection. Rows include Bk. S. Abut., CL S. Joint, CL Brg. S. Abut., CL Pier 1, CL Pier 2, CL Brg. N. Abut., CL N. Joint, Bk. N. Abut.

BEAM 6

Table with 5 columns: Location, Station, Offset, Theoretical Grade Elevations, Theoretical Grade Elevations Adjusted For Dead Load Deflection. Rows include Bk. S. Abut., CL S. Joint, CL Brg. S. Abut., CL Pier 1, CL Pier 2, CL Brg. N. Abut., CL N. Joint, Bk. N. Abut.

BEAM 7

Table with 5 columns: Location, Station, Offset, Theoretical Grade Elevations, Theoretical Grade Elevations Adjusted For Dead Load Deflection. Rows include Bk. S. Abut., CL S. Joint, CL Brg. S. Abut., CL Pier 1, CL Pier 2, CL Brg. N. Abut., CL N. Joint, Bk. N. Abut.

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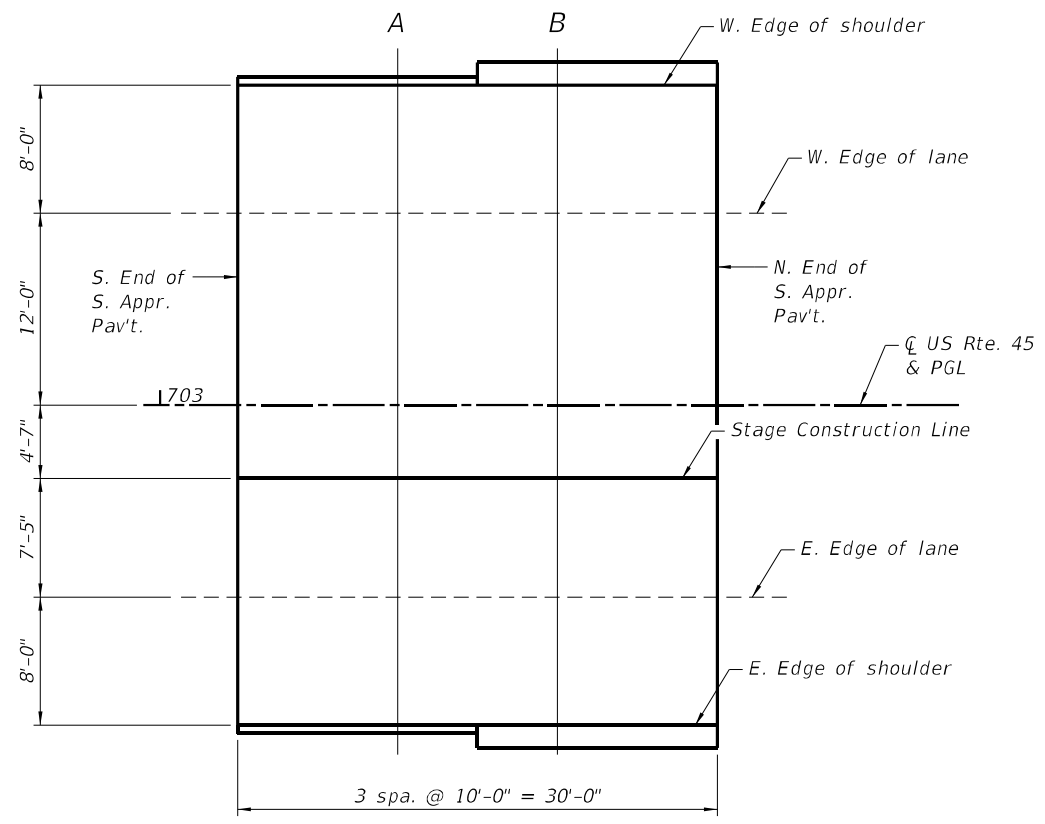
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STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

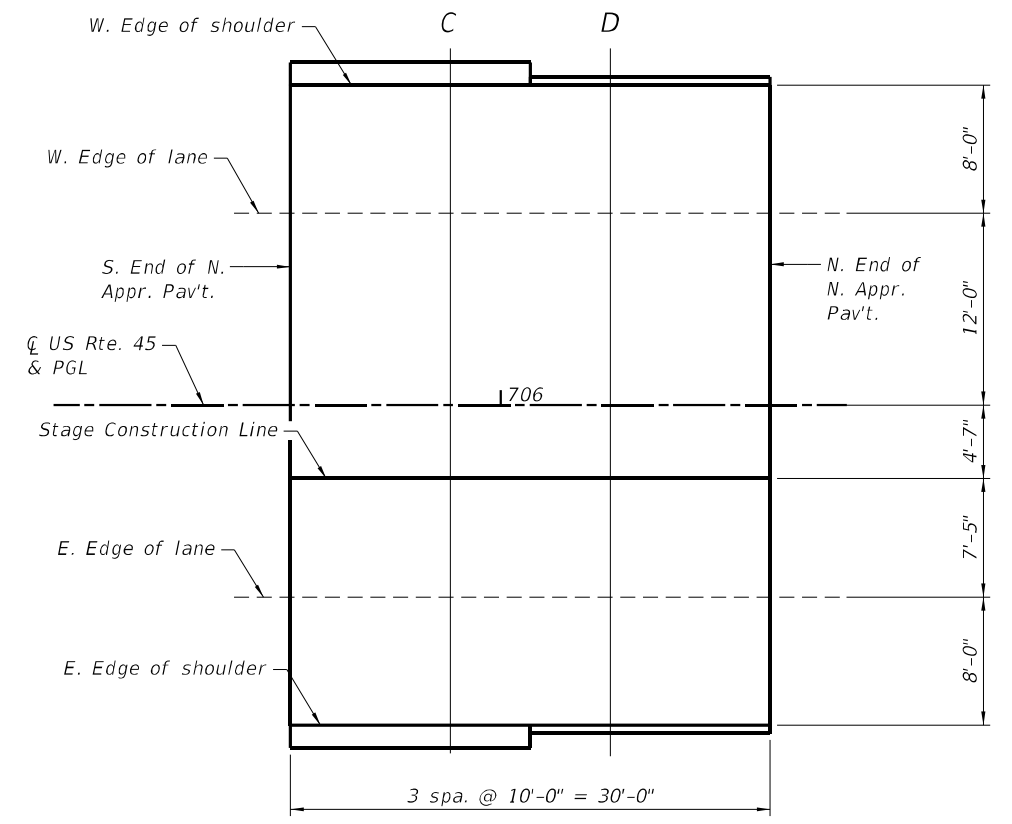
DECK ELEVATIONS - II SN 083-0074

SCALE: SHEET 7 OF 28 SHEETS STA. TO STA.

Table with 5 columns: F.A.P. RTE., SECTION, COUNTY, TOTAL SHEETS, SHEET NO. Values: 332, 29B-4, SALINE, 150, 92. Includes CONTRACT NO. 78716 and ILLINOIS FED. AID PROJECT.



SOUTH APPROACH SLAB PLAN



NORTH APPROACH SLAB PLAN

W. EDGE OF SHOULDER

Location	Sta.	Offset (ft)	Theoretical Grade Elevation
S. End S. Appr. Pav't.	703+04.84	-20.00	370.49
A	703+14.84	-20.00	370.58
B	703+24.84	-20.00	370.66
N. End S. Appr. Pav't.	703+34.84	-20.00	370.75

STAGE CONSTRUCTION LINE

Location	Sta.	Offset (ft)	Theoretical Grade Elevation
S. End S. Appr. Pav't.	703+04.84	4.58	370.76
A	703+14.84	4.58	370.85
B	703+24.84	4.58	370.93
N. End S. Appr. Pav't.	703+34.84	4.58	371.02

W. EDGE OF SHOULDER

Location	Sta.	Offset (ft)	Theoretical Grade Elevation
S. End N. Appr. Pav't.	705+86.84	-20.00	370.77
C	705+96.84	-20.00	370.68
D	706+06.84	-20.00	370.59
N. End N. Appr. Pav't.	706+16.84	-20.00	370.51

STAGE CONSTRUCTION LINE

Location	Sta.	Offset (ft)	Theoretical Grade Elevation
S. End N. Appr. Pav't.	705+86.84	4.58	371.04
C	705+96.84	4.58	370.95
D	706+06.84	4.58	370.86
N. End N. Appr. Pav't.	706+16.84	4.58	370.78

W. EDGE OF LANE

Location	Sta.	Offset (ft)	Theoretical Grade Elevation
S. End S. Appr. Pav't.	703+04.84	-12.00	370.65
A	703+14.84	-12.00	370.74
B	703+24.84	-12.00	370.82
N. End S. Appr. Pav't.	703+34.84	-12.00	370.91

E. EDGE OF LANE

Location	Sta.	Offset (ft)	Theoretical Grade Elevation
S. End S. Appr. Pav't.	703+04.84	12.00	370.65
A	703+14.84	12.00	370.74
B	703+24.84	12.00	370.82
N. End S. Appr. Pav't.	703+34.84	12.00	370.91

W. EDGE OF LANE

Location	Sta.	Offset (ft)	Theoretical Grade Elevation
S. End N. Appr. Pav't.	705+86.84	-12.00	370.93
C	705+96.84	-12.00	370.84
D	706+06.84	-12.00	370.75
N. End N. Appr. Pav't.	706+16.84	-12.00	370.67

E. EDGE OF LANE

Location	Sta.	Offset (ft)	Theoretical Grade Elevation
S. End N. Appr. Pav't.	705+86.84	12.00	370.93
C	705+96.84	12.00	370.84
D	706+06.84	12.00	370.75
N. End N. Appr. Pav't.	706+16.84	12.00	370.67

CL US RTE. 45 & PGL

Location	Sta.	Offset (ft)	Theoretical Grade Elevation
S. End S. Appr. Pav't.	703+04.84	0.00	370.83
A	703+14.84	0.00	370.92
B	703+24.84	0.00	371.00
N. End S. Appr. Pav't.	703+34.84	0.00	371.09

E. EDGE OF SHOULDER

Location	Sta.	Offset (ft)	Theoretical Grade Elevation
S. End S. Appr. Pav't.	703+04.84	20.00	370.49
A	703+14.84	20.00	370.58
B	703+24.84	20.00	370.66
N. End S. Appr. Pav't.	703+34.84	20.00	370.75

CL US RTE. 45 & PGL

Location	Sta.	Offset (ft)	Theoretical Grade Elevation
S. End N. Appr. Pav't.	705+86.84	0.00	371.11
C	705+96.84	0.00	371.02
D	706+06.84	0.00	370.93
N. End N. Appr. Pav't.	706+16.84	0.00	370.85

E. EDGE OF SHOULDER

Location	Sta.	Offset (ft)	Theoretical Grade Elevation
S. End N. Appr. Pav't.	705+86.84	20.00	370.77
C	705+96.84	20.00	370.68
D	706+06.84	20.00	370.59
N. End N. Appr. Pav't.	706+16.84	20.00	370.51

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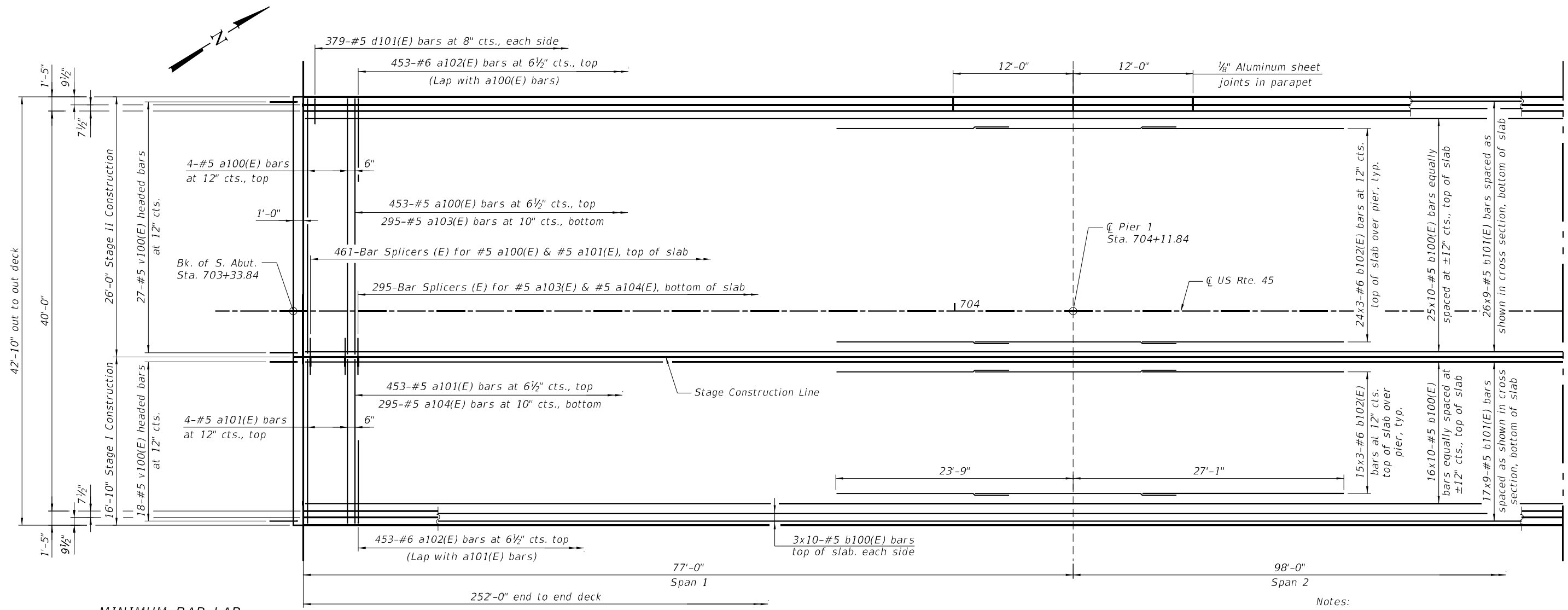
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

APPROACH SLAB ELEVATIONS			
SN 083-0074			
SCALE:	SHEET 8 OF 28 SHEETS	STA.	TO STA.

F.A.P. RTE. 332	SECTION 29B-4	COUNTY SALINE	TOTAL SHEETS 150	SHEET NO. 93
CONTRACT NO. 78716				
ILLINOIS FED. AID PROJECT				

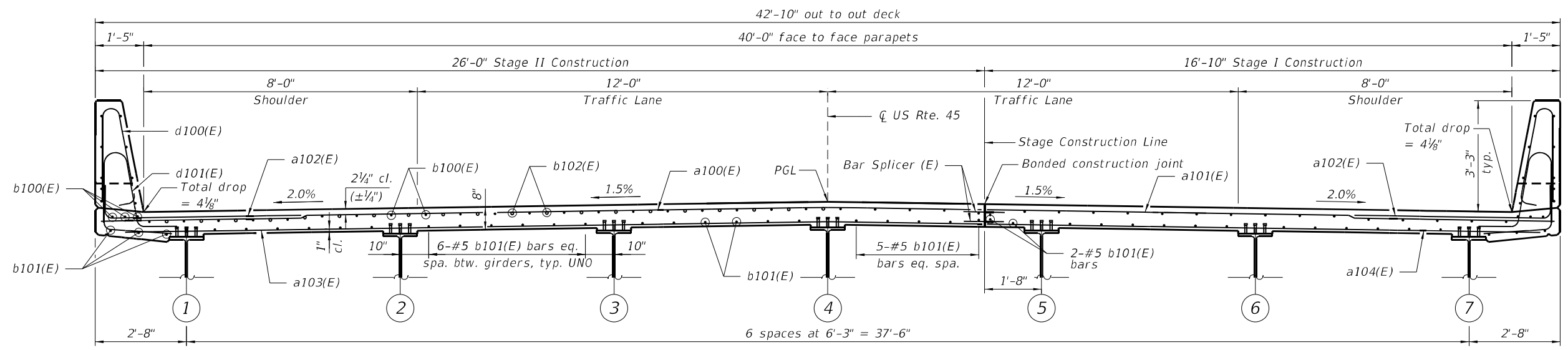
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MINIMUM BAR LAP
 #5 bar = 3'-6"
 #6 bar = 3'-7"

PARTIAL PLAN

Notes:
 1. See sheet 11 of 28 for superstructure details and Bill of Material.
 2. Bars indicated thus 16x10-#5 etc. indicates 16 lines of bars with 10 lengths per line.
 3. UNO = Unless noted otherwise.

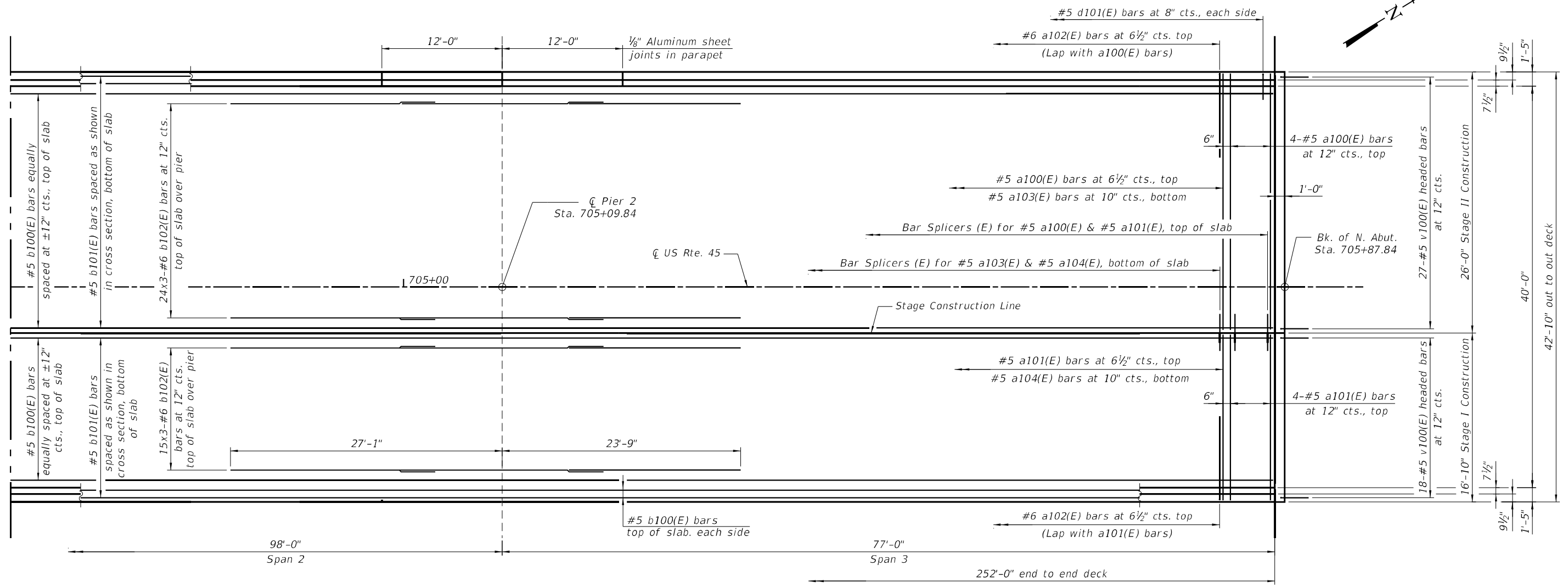
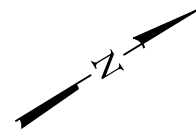


CROSS SECTION
 (Looking North)

MATCHLINE STA. 704+60.84

	USER NAME = Derek Cochran	DESIGNED - MAC	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUPERSTRUCTURE - I SN 083-0074		F.A.P. RTE. 332	SECTION 29B-4	COUNTY SALINE	TOTAL SHEETS 150	SHEET NO. 94		
	PLOT SCALE = N/A	CHECKED - DH/JTH	REVISED -				CONTRACT NO. 78716						
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MATCHLINE STA. 704+60.84



MINIMUM BAR LAP
 #5 bar = 3'-6"
 #6 bar = 3'-7"

PARTIAL PLAN

- Notes:**
1. See sheet 11 of 28 for superstructure details and Bill of Material.
 2. See sheet 9 of 28 for Cross Section.
 3. Bars indicated thus 15x3-#6 etc. indicates 15 lines of bars with 3 lengths per line.

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

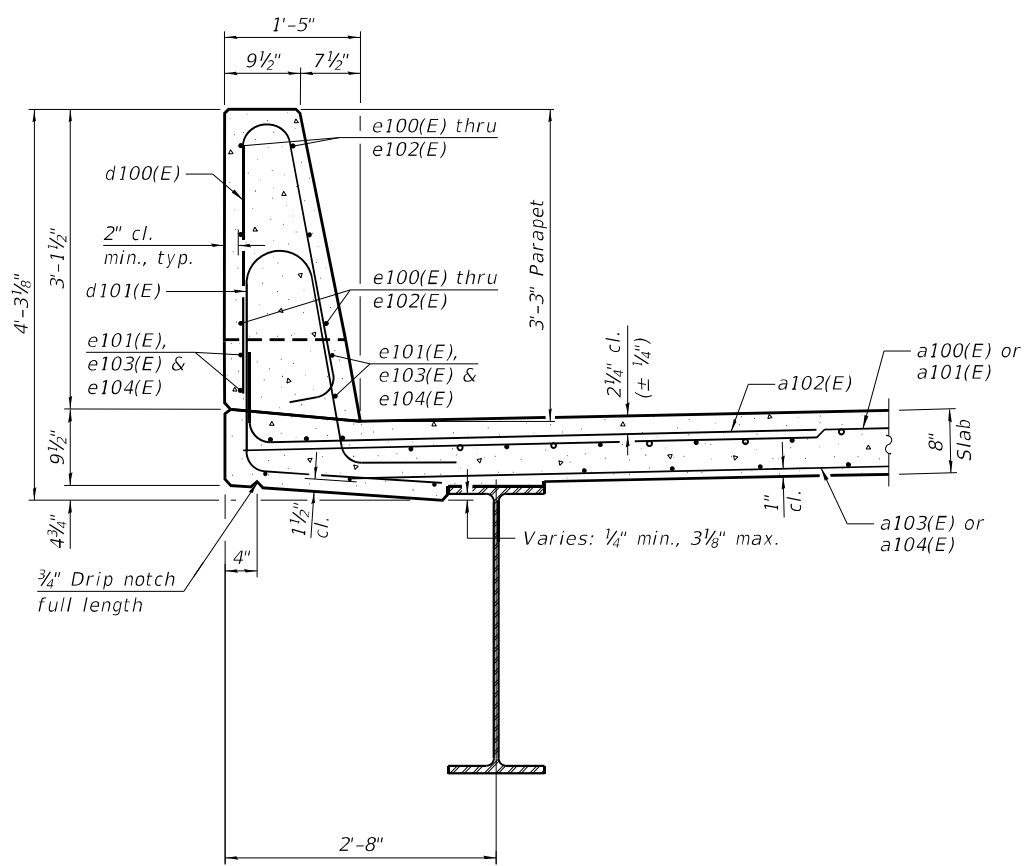
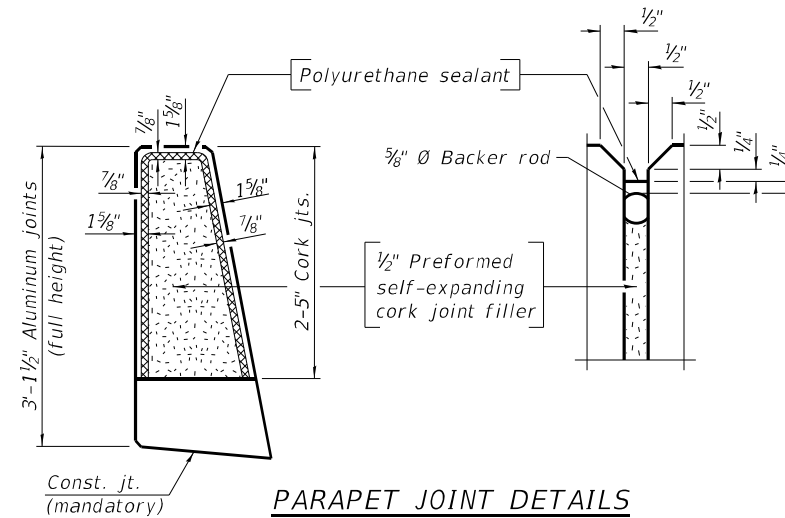
SUPERSTRUCTURE - II
SN 083-0074

SCALE: SHEET 10 OF 28 SHEETS STA. TO STA.

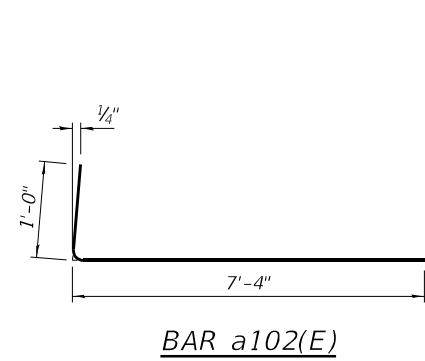
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	29B-4	SALINE	150	95
CONTRACT NO. 78716				
ILLINOIS FED. AID PROJECT				

**SUPERSTRUCTURE
BILL OF MATERIAL**

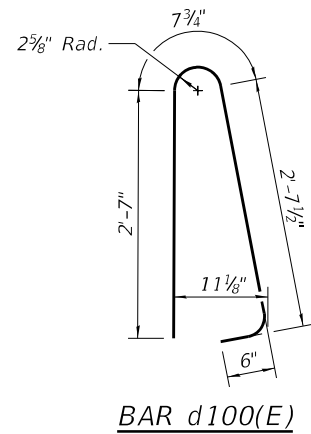
Bar	No.	Size	Length	Shape
a100(E)	461	#5	25'-8"	—
a101(E)	461	#5	16'-6"	—
a102(E)	906	#6	8'-4"	—
a103(E)	295	#5	24'-11"	—
a104(E)	295	#5	15'-9"	—
b100(E)	470	#5	28'-4"	—
b101(E)	387	#5	31'-1"	—
b102(E)	234	#6	19'-4"	—
d100(E)	784	#5	6'-5"	⌒
d101(E)	758	#5	8'-0"	⌒
e100(E)	96	#4	15'-11"	—
e101(E)	80	#4	11'-8"	—
e102(E)	48	#4	18'-2"	—
e103(E)	32	#4	33'-7"	—
e104(E)	16	#4	38'-1"	—
m110(E)	8	#6	25'-8"	—
m111(E)	8	#6	16'-6"	—
m112(E)	6	#6	4'-3"	—
m113(E)	6	#6	1'-4"	—
m114(E)	30	#6	5'-11"	—
m115(E)	12	#6	2'-4"	—
s110(E)	84	#5	7'-4"	⌒
s111(E)	84	#5	10'-10"	⌒
v100(E)	90	#5	3'-1"	⌒
Concrete Superstructure		Cu. Yd.	377.0	
Bridge Deck Grooving		Sq. Yd.	1,064	
Protective Coat		Sq. Yd.	1,350	
Reinforcement Bars, Epoxy Coated		Pound	95,060	



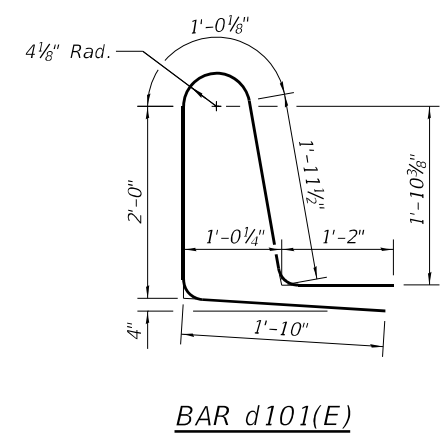
SECTION THRU PARAPET



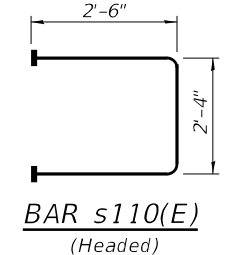
BAR a102(E)



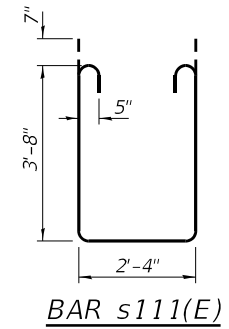
BAR d100(E)



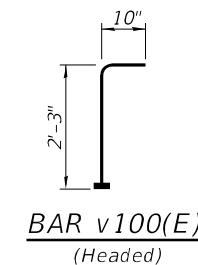
BAR d101(E)



**BAR s110(E)
(Headed)**



BAR s111(E)



**BAR v100(E)
(Headed)**

- Notes:
- The 1/8" aluminum sheet shall be ASTM B 209 alloy 3003-H14 and coated to minimize reaction with wet concrete. Cost included with Concrete Superstructure.
 - The polyurethane sealant shall be according to Article 1050.04 of the Std. Spec. and the color shall be gray.
 - Headed bars shall conform to ASTM A970 with threaded attachment; Class HA; and reinforcement bars conforming to ASTM A706. Cost included with Reinforcement Bars, Epoxy Coated.

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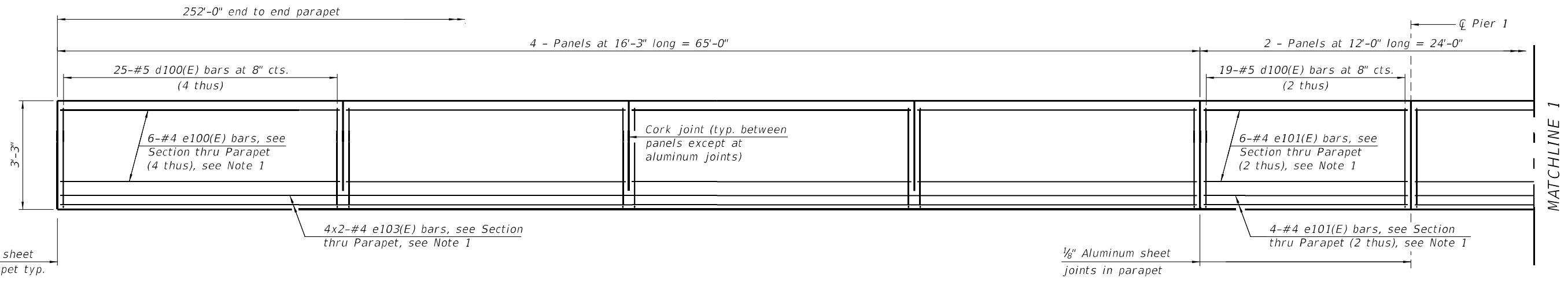


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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

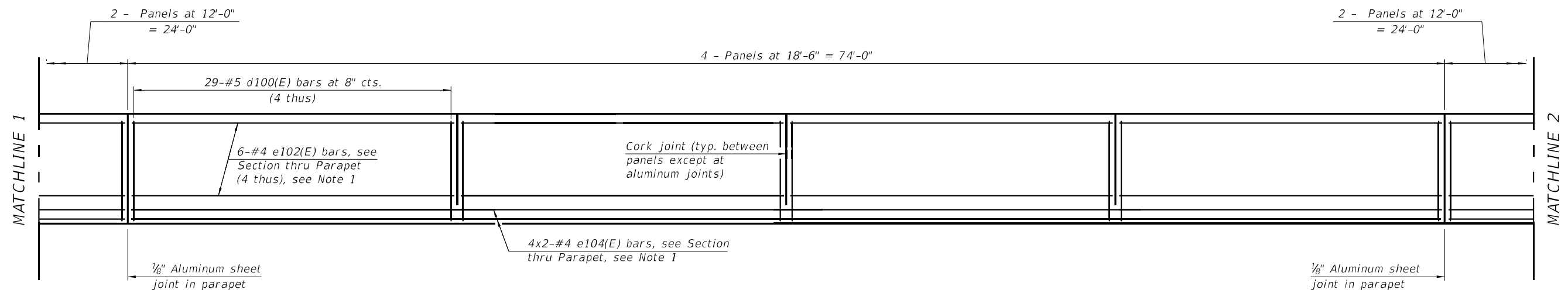
SUPERSTRUCTURE DETAILS - I			
SN 083-0074			
SCALE:	SHEET 11 OF 28 SHEETS	STA.	TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	29B-4	SALINE	150	96
CONTRACT NO. 78716				
ILLINOIS FED. AID PROJECT				

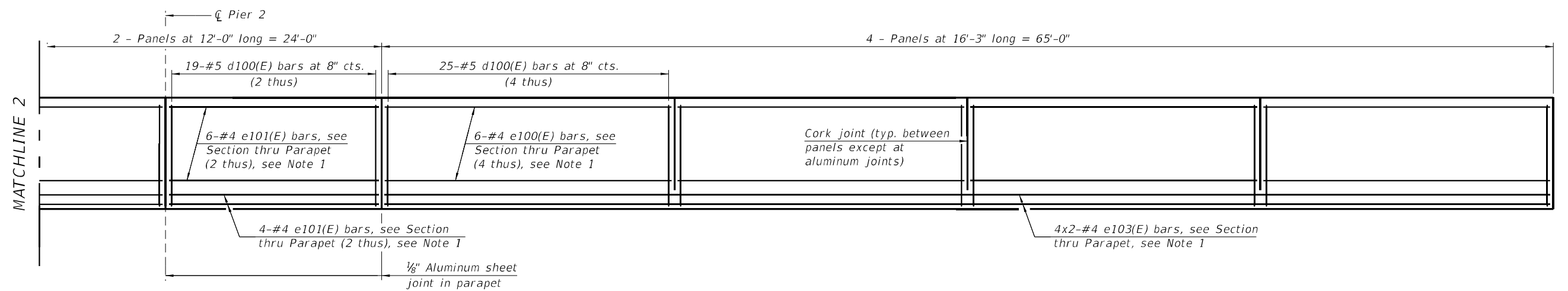


INSIDE ELEVATION OF PARAPET
(West parapet shown, east parapet similar)

MINIMUM BAR LAP
#4 bar = 2'-5"



INSIDE ELEVATION OF PARAPET
(West parapet shown, east parapet similar)



INSIDE ELEVATION OF PARAPET
(West parapet shown, east parapet similar)

- Notes:
 1. See sheet 11 of 28 for Section Thru Parapet
 2. Bars indicated thus 4x2-#4, etc. indicates 4 lines of bars with 2 lengths per line.

FILE NAME: L:\DOT\1968610\VO_10\DrawStructures\CADD_Sheets\SN_083-0074_12_Superstructure Details - II.dgn

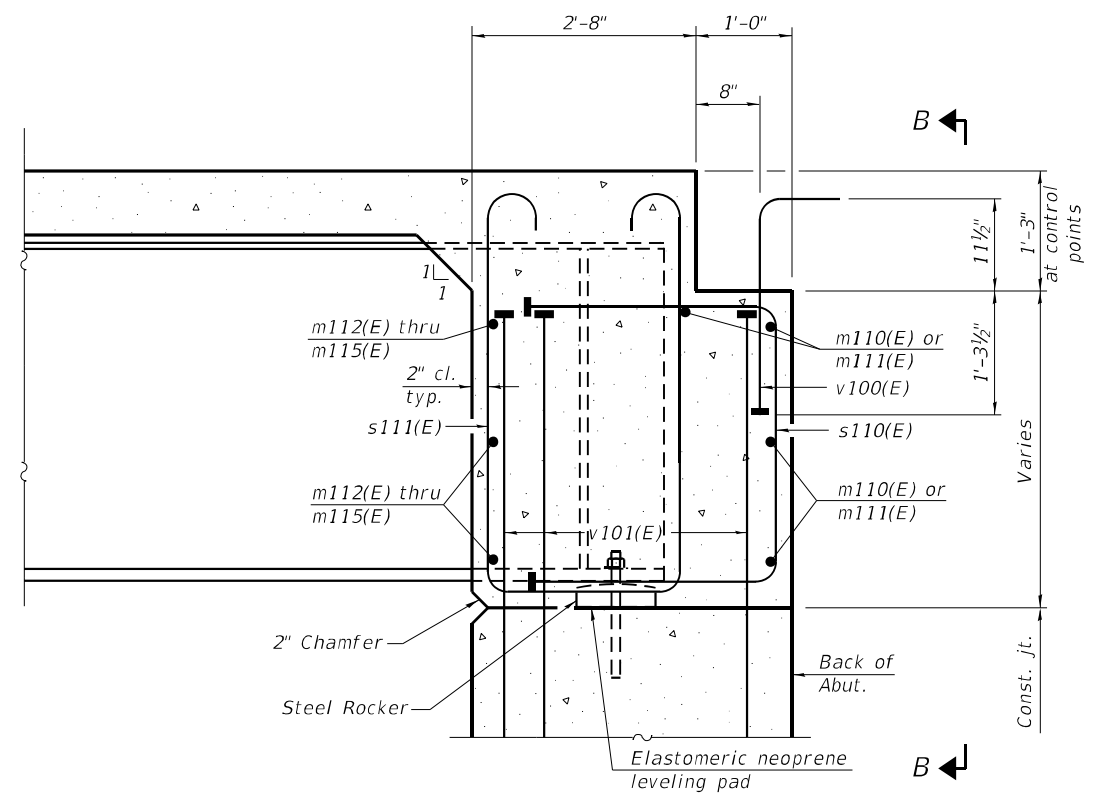
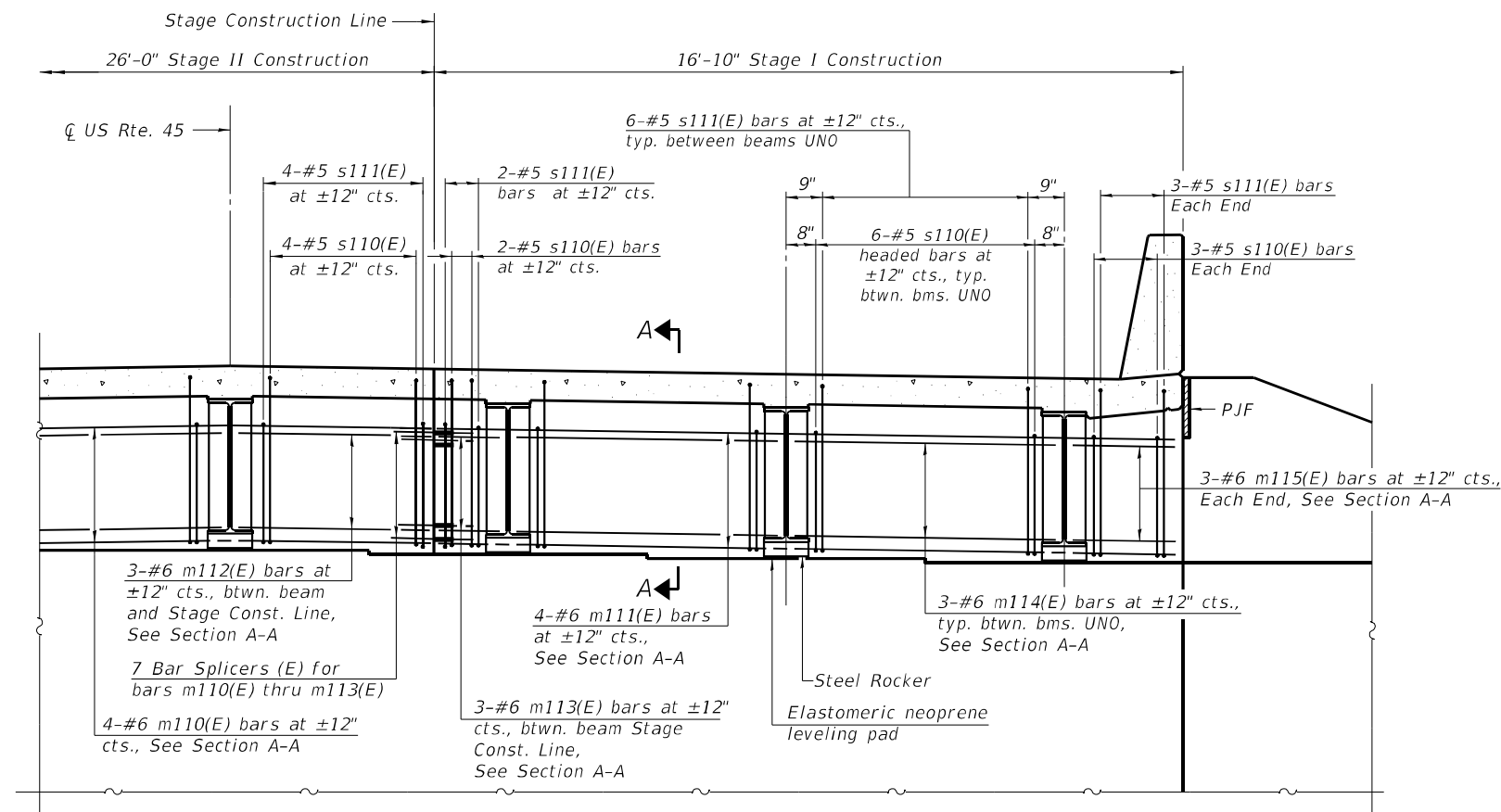


USER NAME = Derek Cochran	DESIGNED - MAC	REVISED -
DRAWN - MAC	REVISED -	
PLOT SCALE = N/A	CHECKED - DH/JTH	REVISED -
PLOT DATE = 12/8/2022 (3:32:48 PM)	DATE - 05/19/2022	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

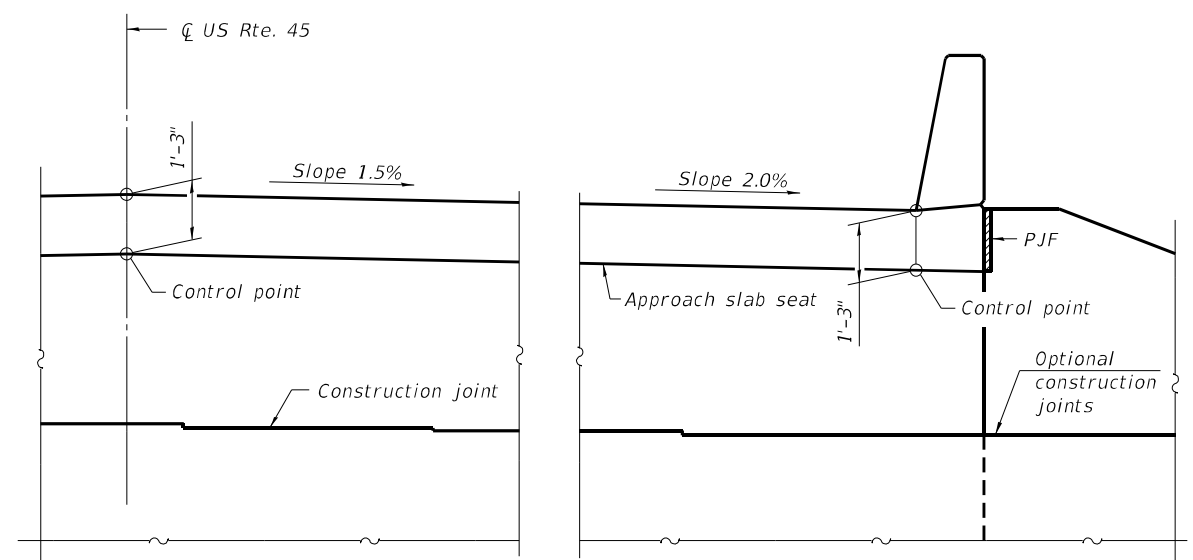
SUPERSTRUCTURE DETAILS - II			
SN 083-0074			
SCALE:	SHEET 12 OF 28 SHEETS	STA.	TO STA.

F.A.P. RTE. 332	SECTION 29B-4	COUNTY SALINE	TOTAL SHEETS 150	SHEET NO. 97
CONTRACT NO. 78716				
ILLINOIS FED. AID PROJECT				

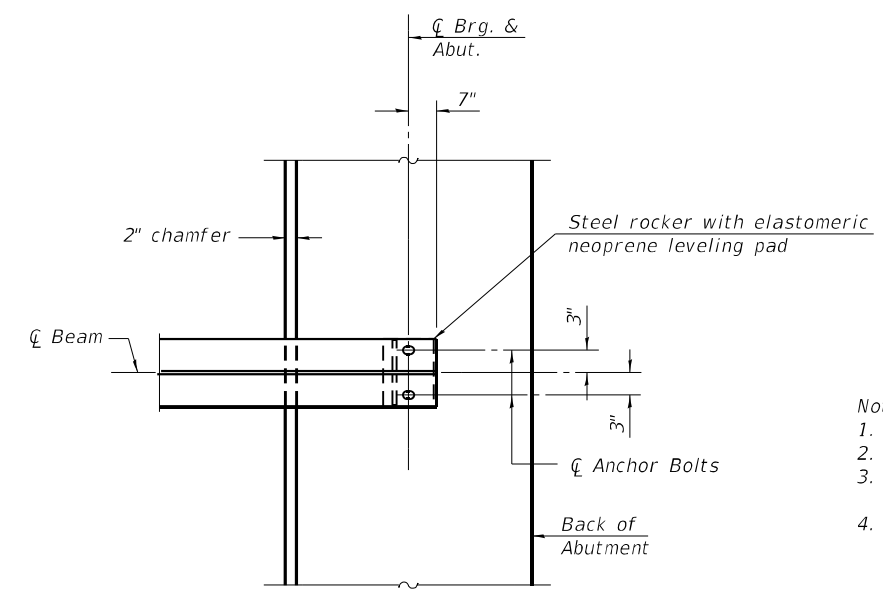


DIAPHRAGM AT ABUTMENT
(North abutment shown, south abutment similar)

SECTION A-A



VIEW B-B

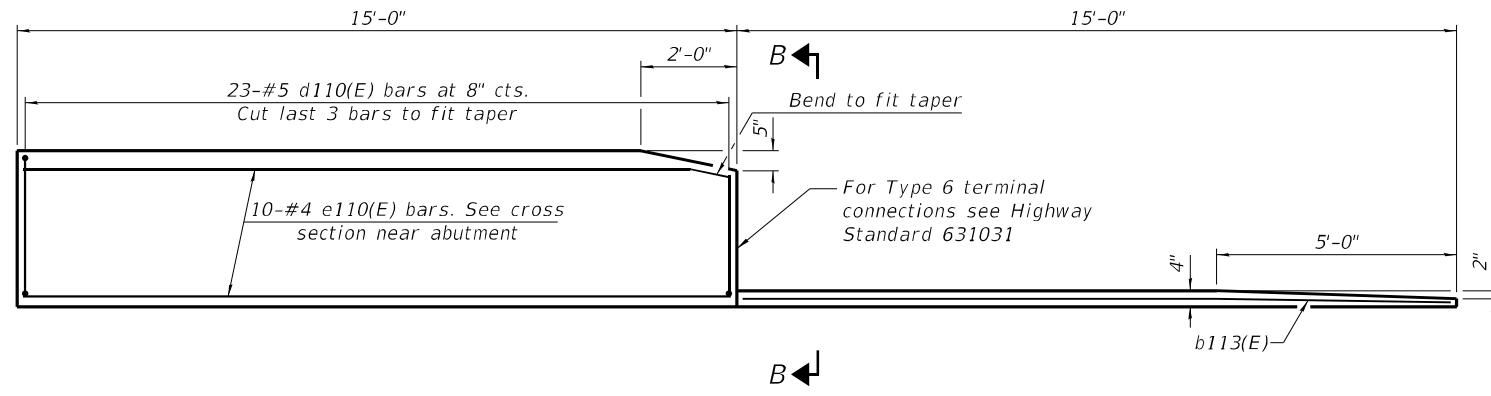


PLAN AT ABUTMENT
(Showing bottom flange of beam)

- Notes:
 1. See sheet 11 of 28 for superstructure details and Bill of Material.
 2. See sheet 14 of 28 for P.J.F. details.
 3. The approach slab seat shall have a constant slope determined from the control points shown.
 4. UNO = Unless noted otherwise

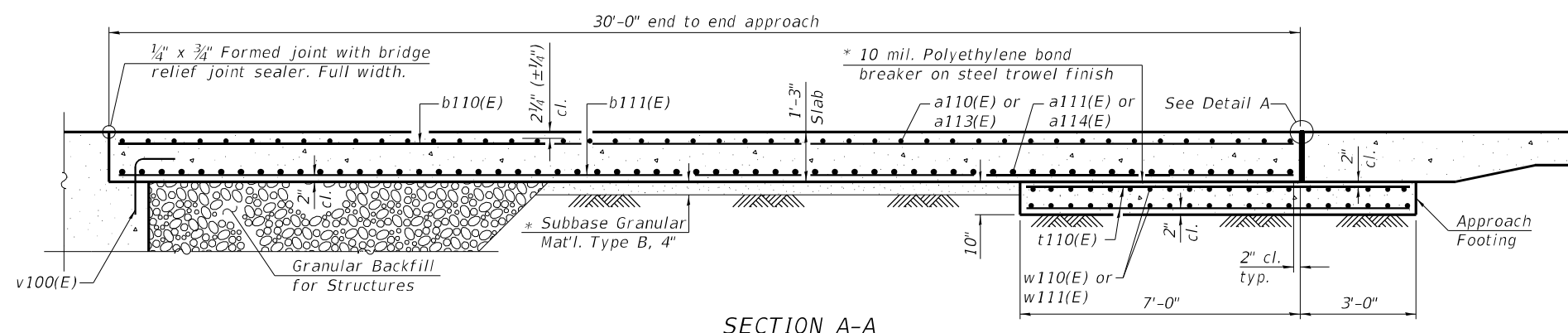
FILE NAME: L:\DOT\1966510\VO_10\DrawStructures\CADD_Sheets\SN_083-0074\Diaphragm Details.dgn

 License No. 184-000613 © copyright CMT, Inc.	USER NAME = Derek Cochran PLOT SCALE = N/A PLOT DATE = 12/8/2022 (3:32:50 PM)	DESIGNED - MAC DRAWN - MAC CHECKED - DH/JTH DATE - 05/19/2022	REVISED - REVISED - REVISED - REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DIAPHRAGM DETAILS SN 083-0074	F.A.P. RTE. 332 SECTION 29B-4 COUNTY SALINE TOTAL SHEETS 150 SHEET NO. 98	CONTRACT NO. 78716 ILLINOIS FED. AID PROJECT
	SCALE:	SHEET 13 OF 28 SHEETS STA. TO STA.					

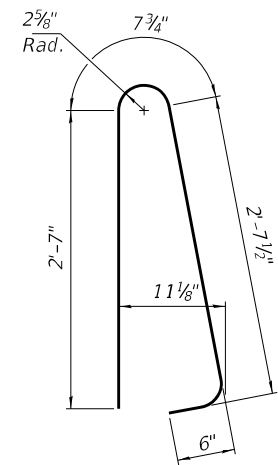


INSIDE ELEVATION OF PARAPET AND CURB

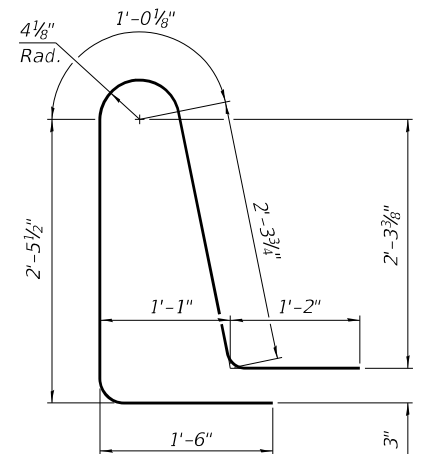
- Notes:
1. The joint opening shall be adjusted for temperature per Article 520.04 of the Standard Specifications. However, since this detail is for jointless structures, the length of bridge used to calculate the adjustment shall be equal to half the total bridge length plus the length of the bridge approach slab.
 2. Parapet concrete shall be paid for as Concrete Superstructure.
 3. Approach slab shall be paid for as Concrete Superstructure (Approach Slab).
 4. Approach footing concrete shall be paid for as Concrete Structures.
 5. The approach footing maximum applied service bearing pressure (Q_{max}) = 2.0 ksf.
 6. Cost of excavation for approach footing included with Concrete Structures.
 7. For Granular Backfill for Structures and drainage treatment details, see sheet 2 of 28.



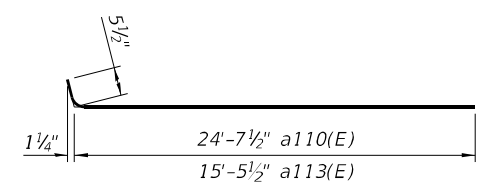
SECTION A-A



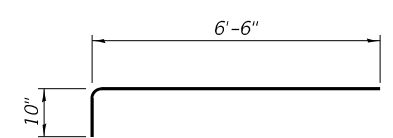
BAR d110(E)



BAR d111(E)



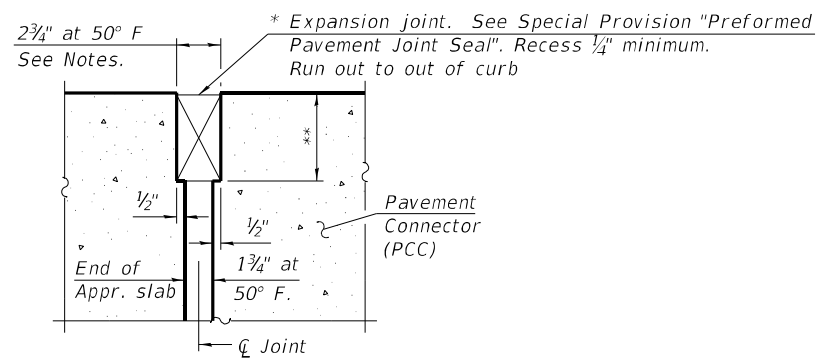
BAR a110(E) & a113(E)



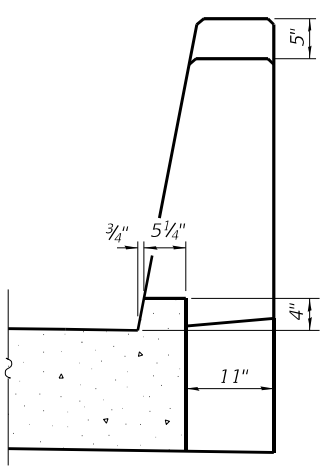
BAR a112(E)

TWO APPROACHES BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a110(E)	92	#5	25'-1"	⏏
a111(E)	120	#8	24'-9"	⏏
a112(E)	92	#5	7'-4"	⏏
a113(E)	92	#5	15'-11"	⏏
a114(E)	120	#8	15'-7"	⏏
b110(E)	126	#5	29'-8"	⏏
b111(E)	200	#9	29'-8"	⏏
b112(E)	16	#5	14'-8"	⏏
b113(E)	4	#4	14'-8"	⏏
d110(E)	92	#5	6'-5"	⏏
d111(E)	92	#5	8'-6"	⏏
e110(E)	40	#4	14'-8"	⏏
t110(E)	172	#4	9'-8"	⏏
w110(E)	80	#5	24'-9"	⏏
w111(E)	80	#5	15'-7"	⏏
Concrete Structures			Cu. Yd.	25.3
Concrete Superstructure			Cu. Yd.	7.8
Bridge Deck Grooving			Sq. Yd.	253
Protective Coat			Sq. Yd.	321
Concrete Superstructure (Approach Slab)			Cu. Yd.	116.8
Reinforcement Bars, Epoxy Coated			Pound	48,220



DETAIL A



VIEW B-B

- * Cost included with Concrete Superstructure (Approach Slab).
- ** Per manufacturer recommendations

FILE NAME: L:\DOT\190665\10\WO_10\Drawn\Structures\CADD_Sheets\SN_083-0074_15_Approach_Slab_Details.dgn



USER NAME	DESIGNED	REVISIONS
= Derek Cochran	- DH	-
	DRAWN	- DH
	CHECKED	- JTH
	DATE	- 05/19/2022

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**BRIDGE APPROACH SLAB DETAILS
SN 083-0074**

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	29B-4	SALINE	150	100
CONTRACT NO. 78716				