

F.A.P. RATE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
785	132-2VBR-20	MADISON	41	1
		ILLINOIS	CONTRACT NO. 76N19	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
**PROPOSED
HIGHWAY PLANS**
FAP ROUTE 785 (IL 140 /IL 111)
SECTION 132-2VBR-2
PROJECT NO. NHPP-17J5(503)
BRIDGE REPAIR & DECK OVERLAY
MADISON COUNTY

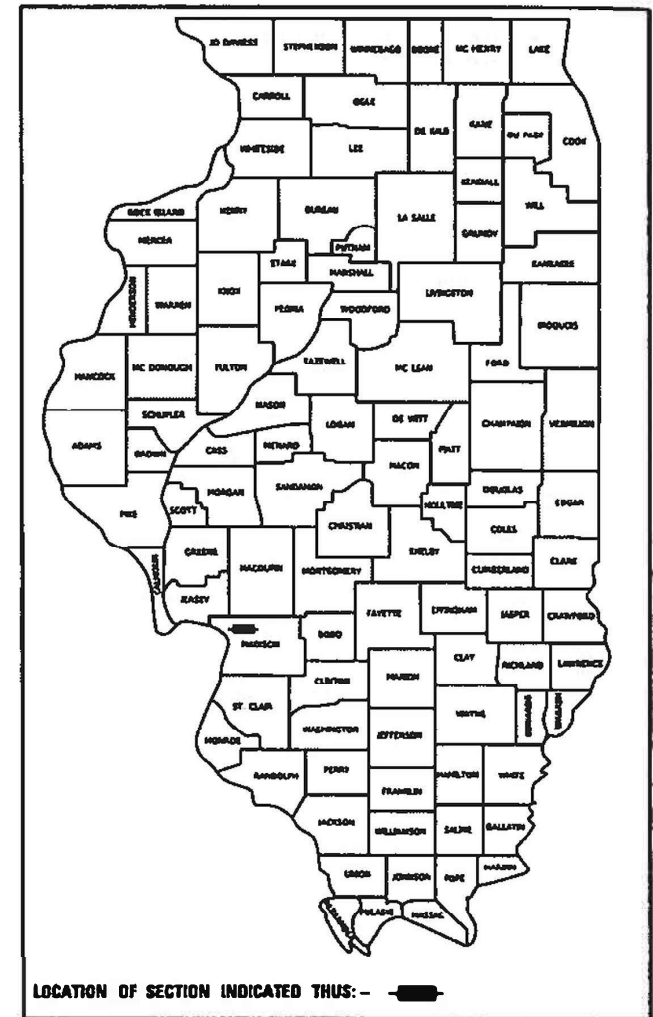
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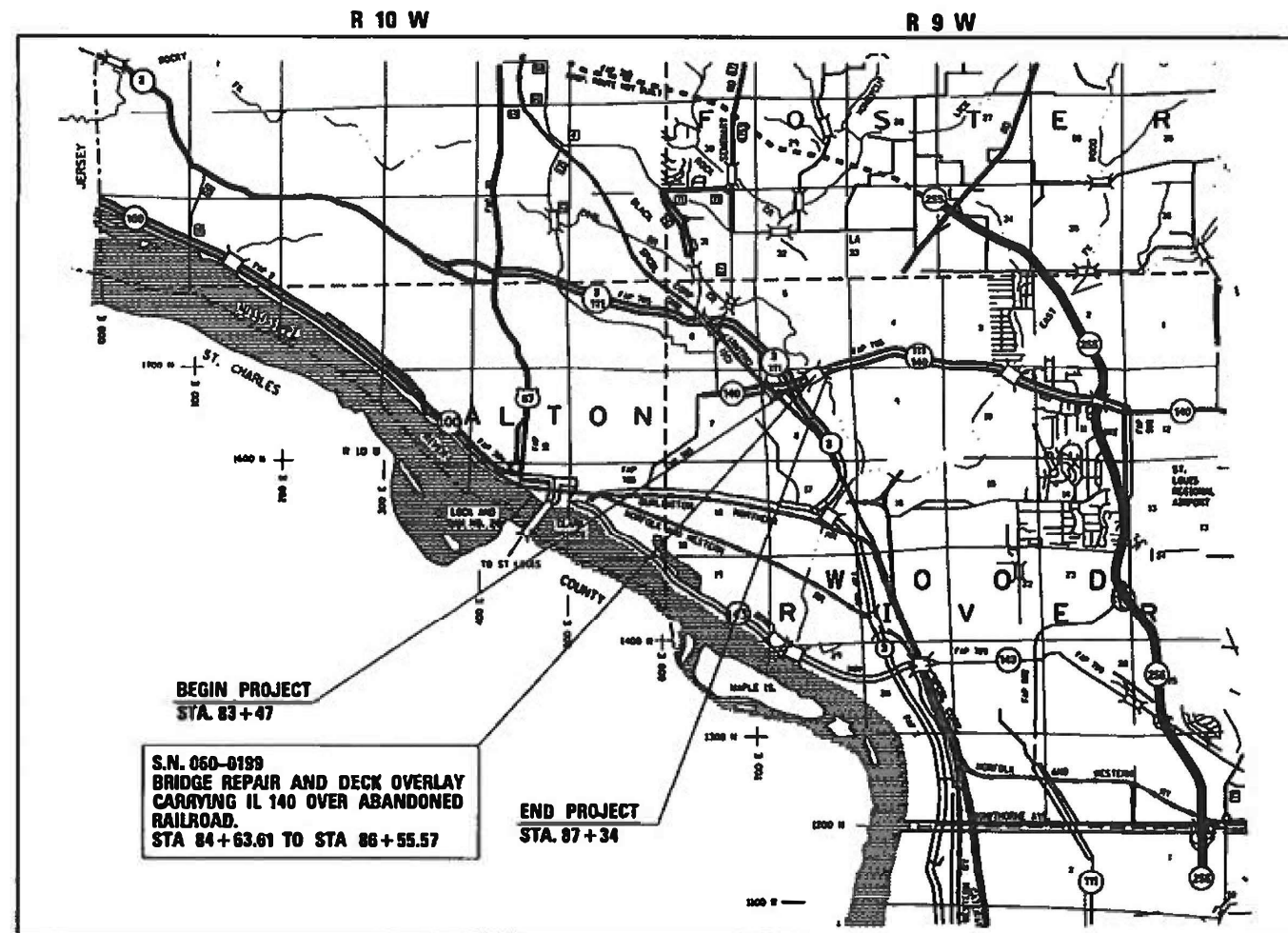
HIGHWAY STANDARDS

- 000001-07 STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
- 001001-02 AREA OF REINFORCEMENT BARS
- 001008 DECIMAL OF AN INCH AND OF A FOOT
- 482001-02 HMA SHOULDER ADJACENT TO FLEXIBLE PAVEMENT
- 643001-02 SAND MODULE IMPACT ATTENUATORS
- 701601-09 URBAN LANE CLOSURE, MULTILANE, 1W OR 2W WITH NONTRAVERSABLE MEDIAN
- 701901-08 TRAFFIC CONTROL DEVICES
- 704001-08 TEMPORARY CONCRETE BARRIERS
- 780001-05 TYPICAL PAVEMENT MARKINGS
- 781001-04 TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS

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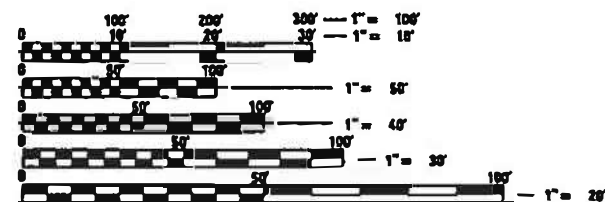


C-98-059-20



DESIGN DESIGNATION

ROADWAY CLASSIFICATION = PRINCIPAL ARTERIAL
DESIGN SPEED = 45 MPH
CURRENT ADT (2019) = 20,800
ESTIMATED ADT (2020) = 21,000
ESTIMATED ADT (2040) = 24,600
SU = 8.5% MU = 2.4%



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 EXCAVATORS
1-800-892-0123
OR 811

S.N. 060-0199
BRIDGE REPAIR AND DECK OVERLAY
CARRYING IL 140 OVER ABANDONED
RAILROAD.
STA 84+63.61 TO STA 86+55.57

END PROJECT
STA. 87+34

SCALE
1" = 1 MILE
NET LENGTH = 387.00 FEET (0.073 MILES)

PROJECT ENGINEER: TIFFANY BRASE (618) 346-3175
PROJECT MANAGER: PHILLIP FREIMUTH (618) 346-3194
CONTRACT NO. 76N19

Steven M. Keil
STEVEN M. KEIL, PE
EXPIRES 11/30/2021
RESPONSIBLE FOR SHEETS 1-15
DATE 08-13-2020



STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
SUBMITTED *Aug 13, 2020*
Keith Roberts
REGIONAL ENGINEER
October 2, 2020
Scott A. Etk
ENGINEER OF DESIGN AND ENVIRONMENT
October 2, 2020
James J. Gu
DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

OATES ASSOCIATES

Collinsville: 100 Lantz Court, Suite 1, Collinsville, IL 62234, 618.345.2200
Bellefonte: 20 East Main Street, Bellefonte, IL 62200, 618.416.4680
St. Louis: 720 Olive, Suite 700, St. Louis, MO 63101, 314.598.0701
St. Charles: 330 North Main, Suite 201, St. Charles, MO 63301, 636.483.4277
ILLINOIS DESIGN FIRM LICENSE NO.: 194.001118

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GENERAL NOTES

UTILITIES

1. THE FOLLOWING UTILITIES ARE KNOWN TO HAVE FACILITIES WITHIN THE PROJECT AREA ARE AS FOLLOWS:

CITY OF ALTON (UNKNOWN)*
#2 EMMA KAUS LANE
ALTON, IL 62002
(618) 463-3533

ILLINOIS AMERICAN WATER COMPANY (WATER)*
4436 INDUSTRIAL DRIVE
P.O. BOX 186
ALTON, IL 62002
(618) 466-2131

AMEREN IP (GAS & ELECTRIC)*
2600 N. CENTER STREET
P.O. BOX 378
MARYVILLE, IL 62062
(800) 755-5000

AT&T ILLINOIS (COMMUNICATIONS)*
160 WEST DIVISION STREET
MARYVILLE, IL 62062

CHARTER COMMUNICATIONS (CABLE TV)*
101 NORTHWEST PLAZA
SAINT ANN, MO 63074

MEMBERS OF J.U.L.I.E (800) 892-0123 OR 811 ARE INDICATED BY *. NON-J.U.L.I.E. MEMBERS MUST BE NOTIFIED INDIVIDUALLY.

GENERAL

- NO SURVEY WAS PERFORMED FOR THIS PROJECT AND THE PLANS WERE CREATED USING MICROFILM AND FIELD MEASUREMENTS.
- THE CONTRACTOR SHALL STAGE ALL WORK IN SUCH A WAY AS TO MAINTAIN INGRESS AND EGRESS TO ALL ABUTTING PROPERTIES AT ALL TIMES DURING CONSTRUCTION.
- THE PROPOSED PAVEMENT MARKING SHALL MATCH THE LOCATIONS OF THE EXISTING PAVEMENT MARKING, AS DIRECTED BY THE ENGINEER.
- WHERE PERMANENT RRPM ARE PRESENT AND CONFLICT WITH THE REVISED TRAFFIC PATTERNS ONLY THE REFLECTORS SHALL BE REMOVED AND PAID FOR AS RAISED REFLECTIVE PAVEMENT MARKER, REFLECTOR REMOVAL.
- THE DEPARTMENT STRONGLY ENCOURAGES THE PRIME CONTRACTOR AND THEIR APPROVED SUB-CONTRACTORS TO HIRE MINORITY, WOMEN AND DISADVANTAGED INDIVIDUALS FROM ITS FEDERALLY FUNDED HIGHWAY CONSTRUCTION CAREERS TRAINING PROGRAM (HCCTP) TO HELP MEET WORKFORCE AND TRAINEE GOALS. THIS PROGRAM IS TRAINING MINORITIES, WOMEN AND DISADVANTAGED INDIVIDUALS IN HIGHWAY CONSTRUCTION-RELATED SKILLS, E.G., MATH FOR THE TRADES, JOB READINESS, TECHNICAL SKILLS COURSEWORK (CARPENTRY, CONCRETE FLATWORK, BLUEPRINT READING, SITE PLANS, SITE WORK, TOOLS USE, ETC.) AND OSHA 10 HOUR CERTIFICATION, TO PREPARE THEM FOR A CAREER IN THE HIGHWAY CONSTRUCTION TRADES. GRADUATES ARE WELL-TRAINED AND READY TO BECOME PRODUCTIVE ENTRY-LEVEL CONSTRUCTION WORKERS. CONTACT THE DISTRICT 8 EEO OFFICE AT 618-346-3360 AND/OR THE HCCTP COORDINATOR AT 618-874-6528 TO LEARN MORE ABOUT THE PROGRAM AND FOR ASSISTANCE IN MEETING WORKFORCE AND TRAINEE GOALS.

APPROXIMATE QUANTITIES, SYMBOLS AND ABBREVIATIONS

7. THE FOLLOWING SYMBOLS, ABBREVIATIONS AND PATTERNS SUPPLEMENT OR SUPERCEDE HIGHWAY STANDARD 000001:

BO	BY OTHERS (USED IN CONJUNCTION WITH TBA & TBR)
CONSTR	CONSTRUCTION
CP	CONTROL POINT
ESMT	EASEMENT
ELEV	ELEVATION
K	LENGTH OF VERTICAL CURVE PER PERCENT GRADE DIFFERENCE
N/F	NOW OR FORMERLY
O/C	OIL AND CHIP
PERM	PERMANENT
PVI	POINT OF VERTICAL INTERSECTION
PVC	POLYVINYL CHLORIDE PIPE
TCE	TEMPORARY CONSTRUCTION EASEMENT
TUP	TEMPORARY USE PERMIT
TBA	TO BE ADJUSTED
TBRL	TO BE RELOCATED
TYP	TYPICAL
W	WIDTH

COMMITMENTS

NONE

MIXTURE REQUIREMENTS

MIXTURE USE	POLY SURFACE	BINDER	SHOULDERS (LOWER)	SHOULDERS (SURFACE)
AC/PG	SBS PG 76-22	PG 64-22	PG 64-22	PG 64-22
RAP % (MAX)	SEE SPECIAL PROVISIONS	SEE SPECIAL PROVISIONS	SEE SPECIAL PROVISIONS	SEE SPECIAL PROVISIONS
DESIGN AIR VOIDS	4.0% @ NDES=90	4.0% @ NDES=90	4.0% @ NDES=30	4.0% @ NDES=30
MIX COMPOSITION (GRADATION)	IL 9.5	IL 19.0	IL 19.0L	IL 9.5L
FRICTION AGG	MIXTURE "E"	MIXTURE "B"		
QUALITY MGMT PROGRAM	QC/QA	QC/QA	QC/QA	QC/QA

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

GENERAL NOTES

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
785	132-2VBR-2	MADISON	41	2
CONTRACT NO. 76N19				
ILLINOIS FED. AID PROJECT				

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SI	SP	CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTR. CODE
						80% FED 20% STATE BRIDGE 0047 URBAN
		28100107	STONE RIPRAP, CLASS A4	SQ YD	224	224
		40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	6,240	6,240
		40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	1,243	1,243
		40603090	HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N90	TON	464	464
		40604174	POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "E", N90	TON	229	229
		44000155	HOT-MIX ASPHALT SURFACE REMOVAL, 1 1/2"	SQ YD	1,885	1,885
		44000169	HOT-MIX ASPHALT SURFACE REMOVAL, 5"	SQ YD	1,327	1,327
		48203100	HOT-MIX ASPHALT SHOULDERS	TON	263	263
		50102400	CONCRETE REMOVAL	CU YD	36.8	36.8
		50300100	FLOOR DRAINS	EACH	36	36
		50300255	CONCRETE SUPERSTRUCTURE	CU YD	41.1	41.1
		50300260	BRIDGE DECK GROOVING	SQ YD	1,824	1,824
		50300300	PROTECTIVE COAT	SQ YD	1,929	1,929
		50500405	FURNISHING AND ERECTING STRUCTURAL STEEL	POUND	16,900	16,900

NOTES: SP - SEE PROJECT SPECIAL PROVISIONS
 SI - SPECIALTY ITEM



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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES

SCALE: SHEET 1 OF 4 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
785	132-2VBR-2	MADISON	41	3
ILLINOIS FED. AID PROJECT			CONTRACT NO. 76N19	

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 ILLINOIS DESIGN FIRM LICENSE NO.: 184.001115

SI	SP	CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTR. CODE	
						80% FED 20% STATE	BRIDGE 0047 URBAN
		50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	48,080	48,080	
		50800515	BAR SPLICERS	EACH	432	432	
		52000110	PREFORMED JOINT STRIP SEAL	FOOT	255.0	255.0	
		52100010	ELASTOMERIC BEARING ASSEMBLY, TYPE I	EACH	36	36	
		52100505	ANCHOR BOLTS, 5/8"	EACH	144	144	
		58700300	CONCRETE SEALER	SQ FT	2,118	2,118	
	*	67100100	MOBILIZATION	L SUM	1	1	
	*	70107005	PAVEMENT MARKING BLACKOUT TAPE, 5"	FOOT	3,952	3,952	
		70300100	SHORT TERM PAVEMENT MARKING	FOOT	112	112	
		70300150	SHORT TERM PAVEMENT MARKING REMOVAL	SQ FT	1,694	1,694	
	*	70300220	TEMPORARY PAVEMENT MARKING - LINE 4"	FOOT	17,216	17,216	
		70400100	TEMPORARY CONCRETE BARRIER	FOOT	567	567	
		70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	567	567	
		70600250	IMPACT ATTENUATORS, TEMPORARY (NON- REDIRECTIVE), TEST LEVEL 3	EACH	2	2	

NOTES: SP - SEE PROJECT SPECIAL PROVISIONS
SI - SPECIALTY ITEM



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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES

SCALE: SHEET 2 OF 4 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
785	132-2VBR-2	MADISON	41	4
CONTRACT NO. 76N19			ILLINOIS FED. AID PROJECT	

SI	SP	CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTR. CODE	
						80% FED 20% STATE BRIDGE	0047 URBAN
		70600350	IMPACT ATTENUATORS, RELOCATE (NON- REDIRECTIVE), TEST LEVEL 3	EACH	2		2
		78200005	GUARDRAIL REFLECTORS, TYPE A	EACH	6		6
		78200011	BARRIER WALL REFLECTORS, TYPE C	EACH	6		6
		78200020	CURB REFLECTORS	EACH	26		26
	*	X0550300	SLOPE WALL BREAKING	SQ YD	165		165
*	*	X2700006	PREFORMED PLASTIC PAVEMENT MARKING, TYPE D - LINE 4"	FOOT	1,822		1,822
	*	X5030308	CONCRETE WEARING SURFACE, 4 1/2"	SQ YD	1,839		1,839
	*	X7010228	TRAFFIC CONTROL AND PROTECTION, STANDARD 701601, SPECIAL	L SUM	1		1
	*	X7030005	TEMPORARY PAVEMENT MARKING REMOVAL	SQ FT	5,139		5,139
		X7830050	RAISED REFLECTIVE PAVEMENT MARKER, REFLECTOR REMOVAL	EACH	12		12
*	*	X7830070	GROOVING FOR RECESSED PAVEMENT MARKING 5"	FOOT	1,822		1,822
	*	Z0001899	JACK AND REMOVE EXISTING BEARINGS	EACH	36		36
	*	Z0001903	STRUCTURAL STEEL REMOVAL	POUND	10,160		10,160
	*	Z0001905	STRUCTURAL STEEL REPAIR	POUND	7,870		7,870

NOTES: SP - SEE PROJECT SPECIAL PROVISIONS
* SI - SPECIALTY ITEM

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES

SCALE: SHEET 3 OF 4 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
785	132-2VBR-2	MADISON	41	5
ILLINOIS FED. AID PROJECT			CONTRACT NO. 76N19	

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						80% FED 20% STATE	BRIDGE 0047 URBAN
	*	Z0007101	CONTAINMENT AND DISPOSAL OF LEAD PAINT CLEANING RESIDUE NO. 1	L SUM	1		1
	*	Z0010400	CLEANING BRIDGE SEATS	SQ FT	759		759
	*	Z0010501	CLEANING AND PAINTING STEEL BRIDGE NO. 1	L SUM	1		1
	*	Z0012132	BRIDGE DECK SCARIFICATION 1"	SQ YD	1,839		1,839
	*	Z0012754	STRUCTURAL REPAIR OF CONCRETE (DEPTH EQUAL TO OR LESS THAN 5 INCHES)	SQ FT	46		46
	*	Z0016001	DECK SLAB REPAIR (FULL DEPTH, TYPE I)	SQ YD	10		10
	*	Z0016002	DECK SLAB REPAIR (FULL DEPTH, TYPE II)	SQ YD	10		10
	*	Z0016200	DECK SLAB REPAIR (PARTIAL)	SQ YD	100		100
	*	Z0021904	SILICONE JOINT SEALER, 1"	FOOT	190		190
	*	Z0033700	LONGITUDINAL JOINT SEALANT	FOOT	796		796
	*	Z0049100	RAISED PAVEMENT MARKER REFLECTOR REPLACEMENT	EACH	12		12
	Ø	Z0076600	TRAINEES	HOUR	1000		1000
	Ø	Z0076604	TRAINEES TRAINING PROGRAM GRADUATE	HOUR	1000		1000

Ø 0042

NOTES: SP - SEE PROJECT SPECIAL PROVISIONS
 * SI - SPECIALTY ITEM

REV. - MS



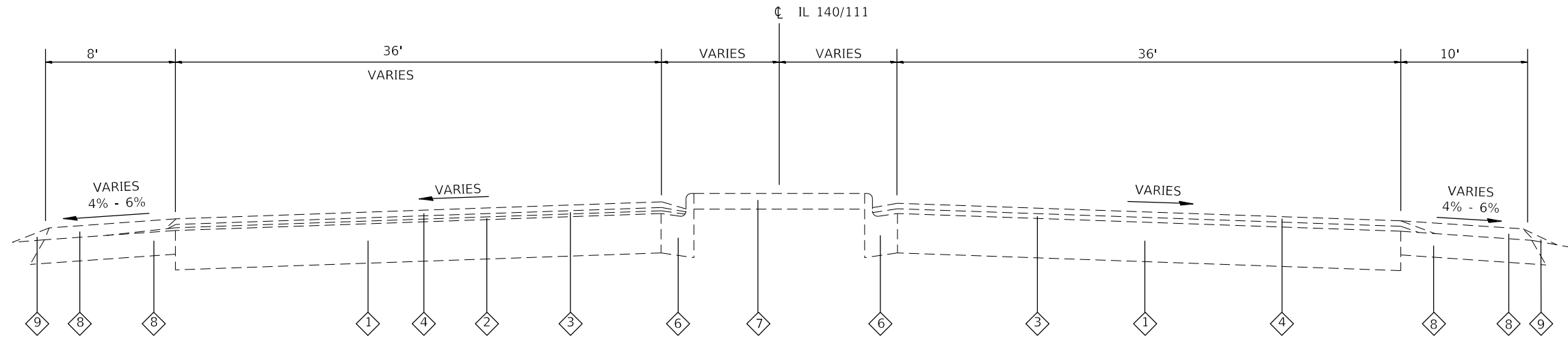
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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES

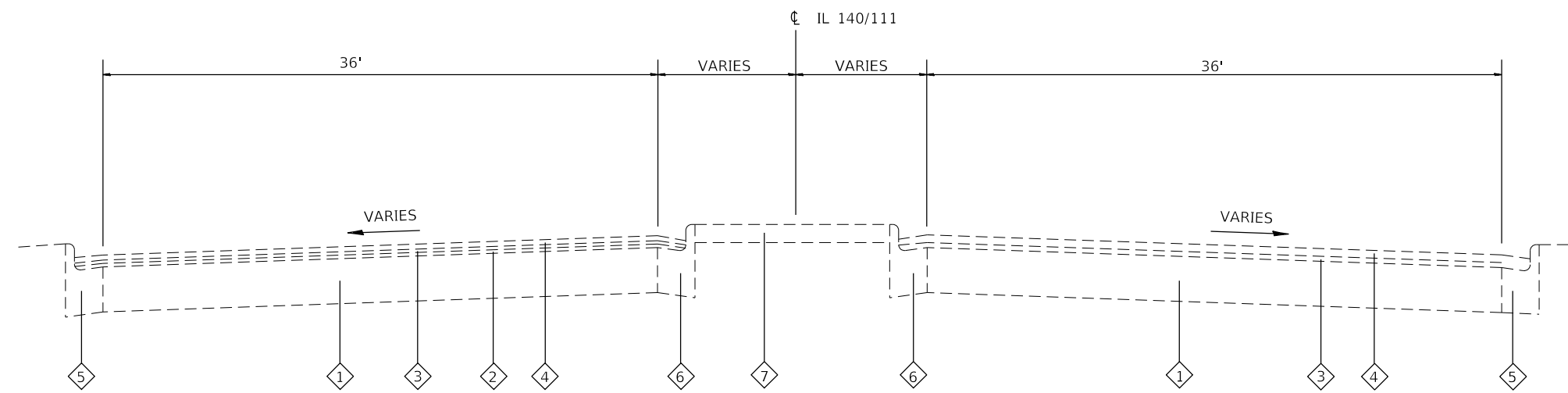
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
785	132-2VBR-2	MADISON	41	6
ILLINOIS FED. AID PROJECT			CONTRACT NO. 76N19	



EXISTING TYPICAL SECTION - IL 140/111

STA. 86+55.57 TO STA. 87+34.00
 STRUCTURE OMISSION STA. 84+63.61 TO STA. 86+55.57



EXISTING TYPICAL SECTION - IL 140/111

STA. 83+47.00 TO STA. 84+63.61
 STRUCTURE OMISSION STA. 84+63.61 TO STA. 86+55.57

TYPICAL SECTION LEGEND

- ① EXISTING 10" PCC PAVEMENT
- ② EXISTING HMA OVERLAY 2 1/2"
- ③ EXISTING LEVELING BINDER 1"
- ④ EXISTING HMA SURFACE COURSE 1 1/2"
- ⑤ EXISTING CC&G TYPE B-6.24
- ⑥ EXISTING CC&G TYPE B-9.24
- ⑦ EXISTING PCC MEDIAN 4"
- ⑧ EXISTING HMA SHOULDER
- ⑨ EXISTING AGG. WEDGE SHOULDER, TYPE B

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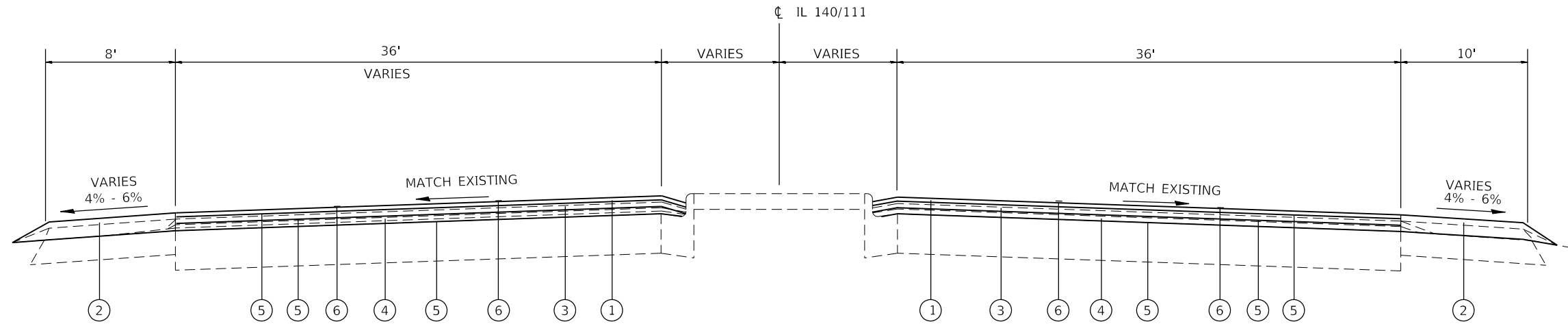


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TYPICAL SECTIONS			
SCALE:	SHEET 1	OF 2 SHEETS	STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
785	132-2VBR-20	MADISON	41	7
CONTRACT NO. 76N19			ILLINOIS FED. AID PROJECT	



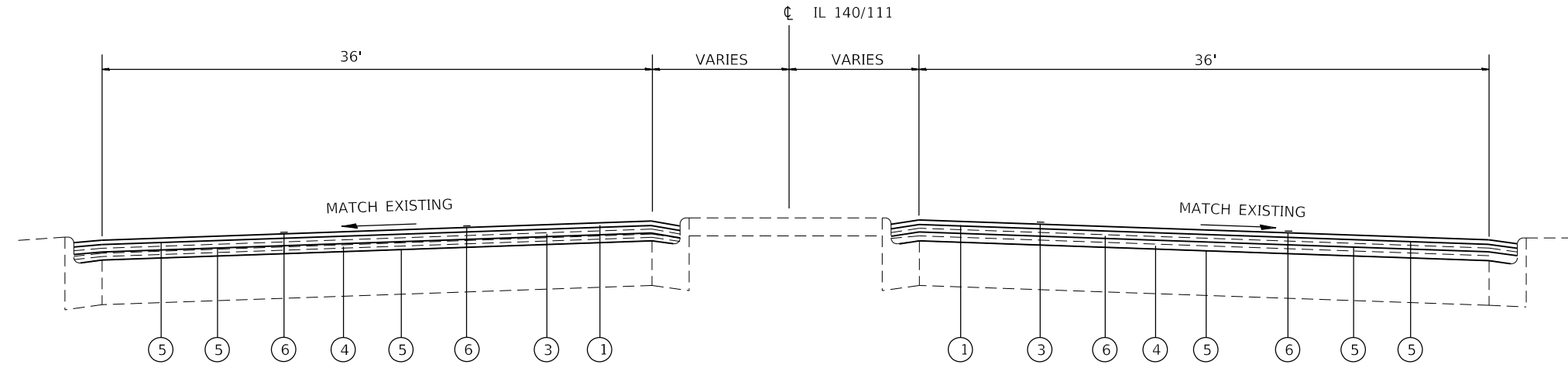
PROPOSED TYPICAL SECTION – IL 140/111

STA. 86+55.57 TO STA. 87+34.00
 STRUCTURE OMISSION STA. 84+63.61 TO STA. 86+55.57

TYPICAL SECTION LEGEND

- ① PROPOSED POLYMERIZED HMA SURFACE COURSE, IL-9.5, MIX "E", N90
- ② PROPOSED HMA SHOULDER - 7"
- ③ PROPOSED HMA SURFACE REMOVAL 2"
- ④ PROPOSED HMA BINDER COURSE 5" (2 LIFTS)
- ⑤ PROPOSED BITUMINOUS MATERIALS (TACK COAT)
- ⑥ PROPOSED LONGINTUDINAL JOINT SEALANT

NOTE: SEE BUTT JOINT DETAIL REGARDING 50" HMA PAVEMENT TRANSITIONS FOR ELEVATED BRIDGE PROFILE.



PROPOSED TYPICAL SECTION – IL 140/111

STA. 83+47.00 TO STA. 84+63.61
 STRUCTURE OMISSION STA. 84+63.61 TO STA. 86+55.57

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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

TYPICAL SECTIONS	
SCALE:	SHEET 2 OF 2 SHEETS
STA.	TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
785	132-2VBR-20	MADISON	41	8
CONTRACT NO. 76N19				
ILLINOIS FED. AID PROJECT				

PAVEMENT

STATION	STATION	OFFSET	HMA SURF REM BUTT JT (SQ YD)	P HMA SC IL-9.5 E N90 (TON)	HMA BC IL-19.0 N90 (TON)	BIT MATLS TACK CT (POUND)	HMA SURF REM 5 (SQ YD)	HMA SHOULDERS (TONS)	LONG JOINT SEALANT (FOOT)
83+47.00	84+63.61	LT	397	87	194	2,274	320	173	266
83+47.00	84+63.61	RT	321	63	105	1,686	281	29	202
86+55.57	87+34.00	LT	249	31	61	858	455	20	130
86+55.57	87+34.00	RT	276	48	104	1,422	271	41	198
TOTAL			1,243	229	464	6,240	1,327	263	796

PAVEMENT NOTES:

- APPLICATION RATES USED FOR QUANTITY ESTIMATES ARE AS FOLLOWS:
HOT-MIX ASPHALT: 0.056 TONS/SY/INCH THICKNESS
TACK COAT: 0.05 LB/SQ FT (MILLED SURFACE), 0.025 LB/ SQ FT (HMA LIFT)
- TACK COAT QUANTITY REPRESENTS THREE APPLICATIONS

PAVEMENT MARKING

STATION	STATION	OFFSET	RAISE PVT MK REF REPL (EACH)	CURB REFLECTORS (EACH)	RAISD REF PM REFL REM (EACH)	PREF PL PM TD LN 4 (YELLOW) (NOTE 1) (FOOT)	PREF PL PM TD LN 4 (WHITE) (NOTE 1) (FOOT)	GRV RCSD PVT MRKG 5 (FOOT)
83+47.00	87+34.00	LT	6	15	6	690	217	907
83+47.00	87+34.00	RT	6	11	6	329	586	915
TOTAL			12	26	12	1,019	803	1,822

PAVEMENT MARKING NOTES:

- SEE HIGHWAY STANDARD 780001 FOR PAVEMENT MARKING DETAILS.
- SEE HIGHWAY STANDARD 782001 FOR CURB REFLECTOR DETAILS.

TRAFFIC CONTROL

LOCATION	LOCATION	PAVT MK BLKOUT TAPE 5 (FOOT)	SHORT TERM PAVT MKING (WHITE) (FOOT)	SHORT TERM PAVT MKING REM (SQ FT)	TEMP PAVT MK LINE 4 (WHITE) (FOOT)	TEMP PAVT MK LINE 4 (YELLOW) (FOOT)	TEMP CONC BARRIER (FOOT)	RELOC TEMP CONC BARRIER (FOOT)	IMP ATTEN TEMP NRD TL2 (EACH)	IMP ATTEN REL NRD TL2 (EACH)	TEMP PAVT MKING REMOV (SQ FT)
STAGE 1											
JACKSON DRIVE	PROFESSIONAL DRIVE	389		163	490	1,891					795
PROFESSIONAL DRIVE	IL 3 WEST EXIT RAMP	256		107	162	1,681					615
IL 3 WEST EXIT RAMP	IL 3 EAST EXIT RAMP	70		30		555					185
IL 3 EAST EXIT RAMP	CREST DRIVE	186		79		1,020					341
CREST DRIVE	END OF PROJECT	1,905	112	835	488	2,742	567		2		1,078
STAGE 2											
JACKSON DRIVE	PROFESSIONAL DRIVE	222		93		1,142					381
PROFESSIONAL DRIVE	IL 3 WEST EXIT RAMP	200		84		1,154					385
IL 3 WEST EXIT RAMP	IL 3 EAST EXIT RAMP	76		32		304					102
IL 3 EAST EXIT RAMP	CREST DRIVE	118		50	80	1,412					498
CREST DRIVE	END OF PROJECT	530		221	885	3,210	567		2		759
TOTAL		3,952	112	1,694	2,105	15,111	567	567	2	2	5,139

TRAFFIC CONTROL NOTES:

- ONE APPLICATION OF SHORT TERM AND TEMPORARY PAVEMENT MARKING WAS FIGURED FOR SHOWN QUANTITY. AN ADDITIONAL QUANTITY EQUAL TO THE PERMANENT PAVEMENT MARKING QUANTITY HAS BEEN INCLUDED IN THE STAGE 2 TEMPORARY PAVEMENT MARKING QUANTITY.
- SHORT TERM PAVEMENT MARKING REMOVAL INCLUDES REMOVAL OF SHORT TERM PAVEMENT MARKINGS AND PAVEMENT MARKING BLACKOUT TAPE.

BARRIER MARKERS

STATION	STATION	OFFSET	GRDRAIL REFL TYPE A (EACH)	BARR WALL REFL TYPE C (EACH)
84+00.00	84+63.61	LT	2	
84+00.00	84+63.61	RT	1	
84+63.61	86+55.57	LT		3
84+63.61	86+55.57	RT		3
86+55.57	87+34.00	LT	1	
86+55.57	87+34.00	RT	2	
TOTAL			6	6

BARRIER MARKERS NOTES:

- SEE HIGHWAY STANDARD 782006 FOR GUARDRAIL / BARRIER REFLECTORS DETAILS.

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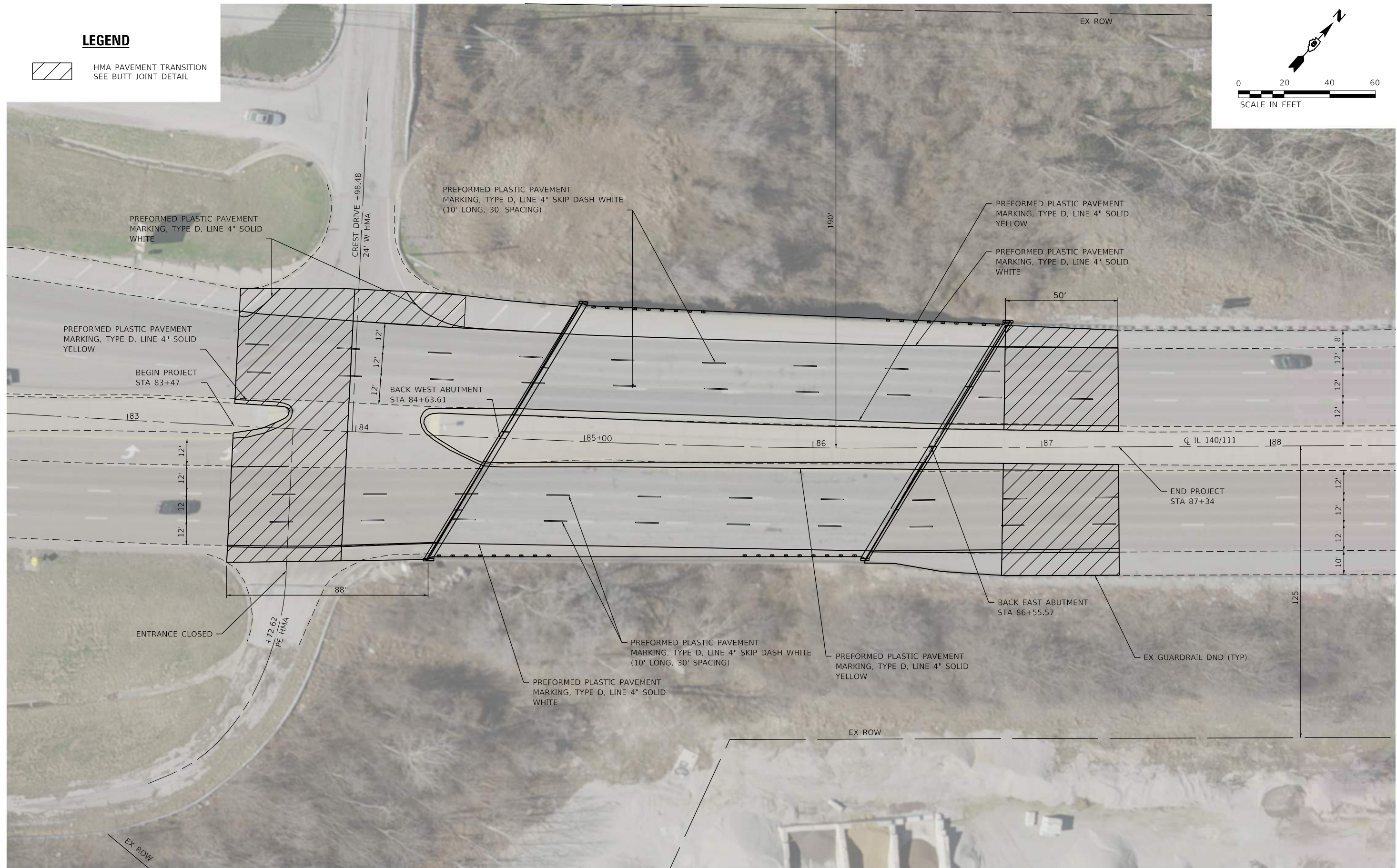
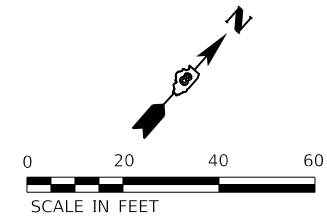
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
785	132-2VBR-2	MADISON	41	9
CONTRACT NO. 76N19			ILLINOIS FED. AID PROJECT	

LEGEND

 HMA PAVEMENT TRANSITION
SEE BUTT JOINT DETAIL



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



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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

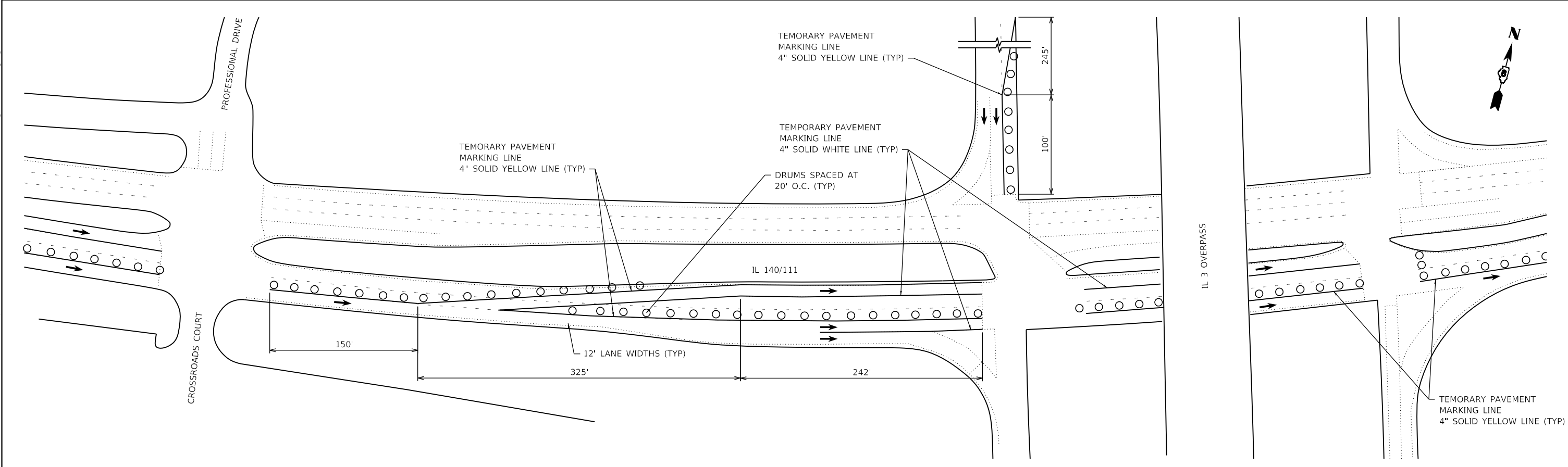
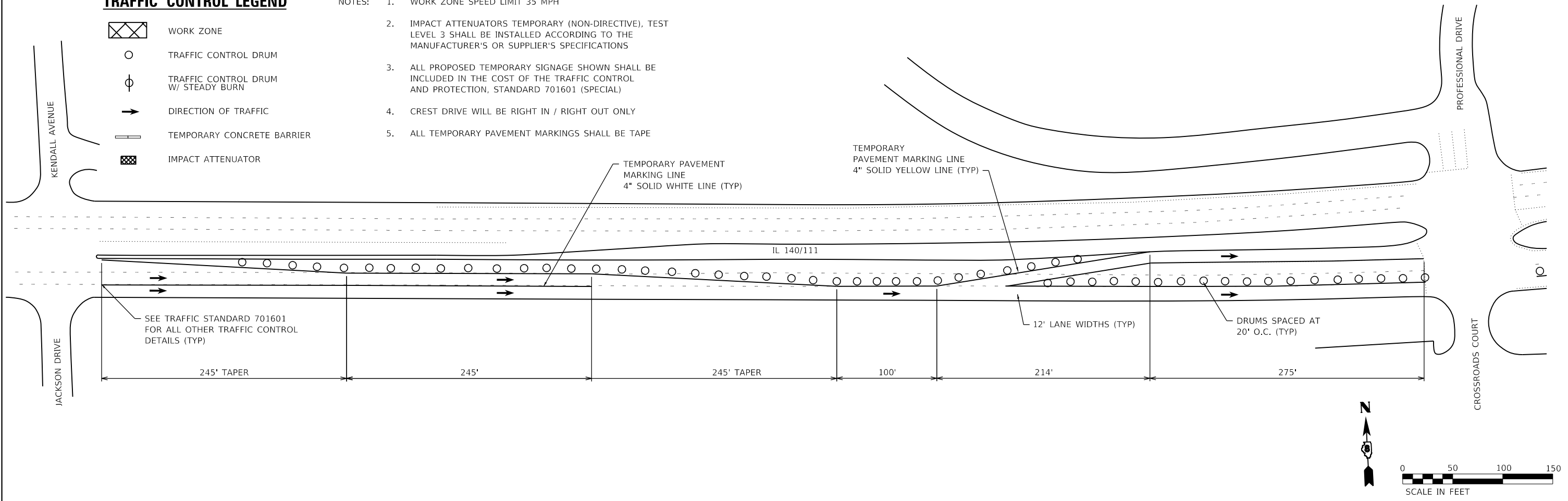
PLAN VIEW	
SCALE: 1" = 20'	SHEET 1 OF 1 SHEETS
STA.	TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
785	132-2VBR-2	MADISON	41	10
CONTRACT NO. 76N19				
ILLINOIS FED. AID PROJECT				

TRAFFIC CONTROL LEGEND

-  WORK ZONE
-  TRAFFIC CONTROL DRUM
-  TRAFFIC CONTROL DRUM W/ STEADY BURN
-  DIRECTION OF TRAFFIC
-  TEMPORARY CONCRETE BARRIER
-  IMPACT ATTENUATOR

- NOTES:
1. WORK ZONE SPEED LIMIT 35 MPH
 2. IMPACT ATTENUATORS TEMPORARY (NON-DIRECTIVE), TEST LEVEL 3 SHALL BE INSTALLED ACCORDING TO THE MANUFACTURER'S OR SUPPLIER'S SPECIFICATIONS
 3. ALL PROPOSED TEMPORARY SIGNAGE SHOWN SHALL BE INCLUDED IN THE COST OF THE TRAFFIC CONTROL AND PROTECTION, STANDARD 701601 (SPECIAL)
 4. CREST DRIVE WILL BE RIGHT IN / RIGHT OUT ONLY
 5. ALL TEMPORARY PAVEMENT MARKINGS SHALL BE TAPE



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	DATE -	REVISED -

DESIGNED -	REVISED -
DRAWN -	REVISED -
CHECKED -	REVISED -
DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**







STAGING PLAN - STAGE 1

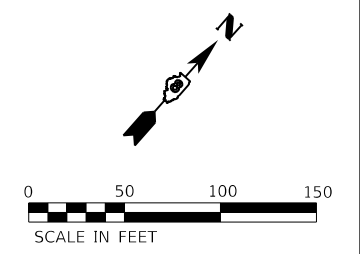
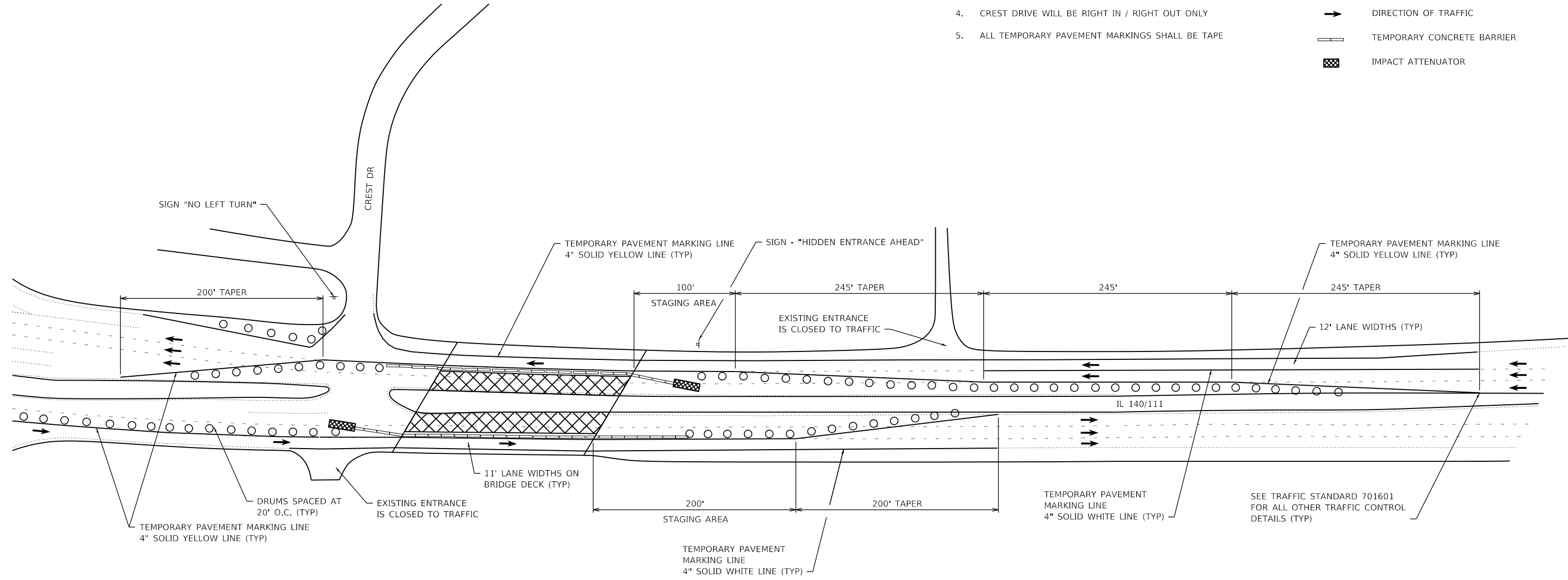
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
785	132-2VBR-2	MADISON	41	11
CONTRACT NO. 76N19				
ILLINOIS FED. AID PROJECT				

- NOTES:
1. WORK ZONE SPEED LIMIT 35 MPH
 2. IMPACT ATTENUATORS TEMPORARY (NON-DIRECTIVE), TEST LEVEL 3 SHALL BE INSTALLED ACCORDING TO THE MANUFACTURER'S OR SUPPLIER'S SPECIFICATIONS
 3. ALL PROPOSED TEMPORARY SIGNAGE SHOWN SHALL BE INCLUDED IN THE COST OF THE TRAFFIC CONTROL AND PROTECTION, STANDARD 701601 (SPECIAL)
 4. CREST DRIVE WILL BE RIGHT IN / RIGHT OUT ONLY
 5. ALL TEMPORARY PAVEMENT MARKINGS SHALL BE TAPE

TRAFFIC CONTROL LEGEND

-  WORK ZONE
-  TRAFFIC CONTROL DRUM
-  TRAFFIC CONTROL DRUM W/ STEADY BURN
-  DIRECTION OF TRAFFIC
-  TEMPORARY CONCRETE BARRIER
-  IMPACT ATTENUATOR



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	DATE -	REVISED -







**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

STAGING PLAN - STAGE 1

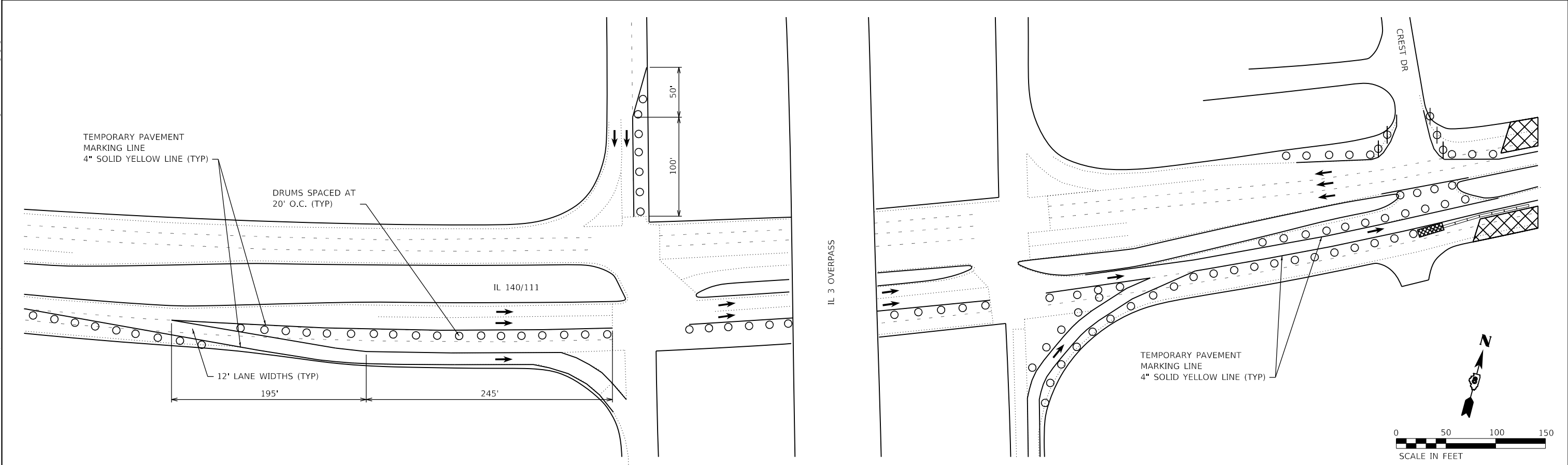
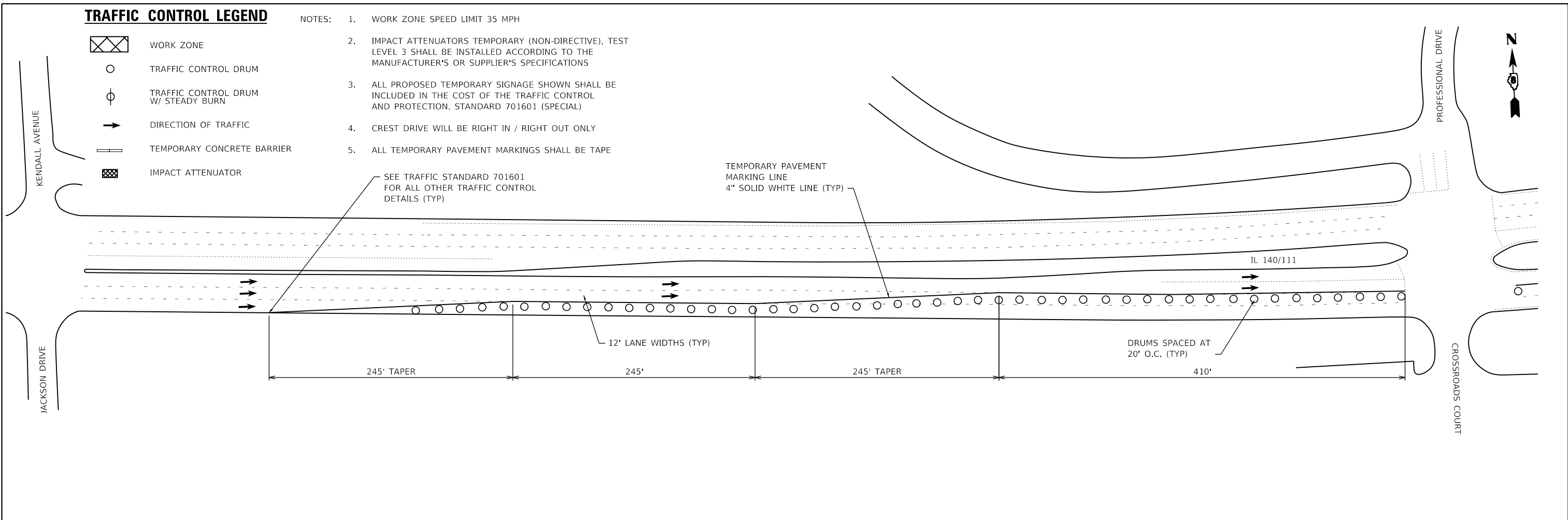
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
785	132-2VBR-2	MADISON	41	12
CONTRACT NO. 76N19				
ILLINOIS FED. AID PROJECT				

TRAFFIC CONTROL LEGEND

-  WORK ZONE
-  TRAFFIC CONTROL DRUM
-  TRAFFIC CONTROL DRUM W/ STEADY BURN
-  DIRECTION OF TRAFFIC
-  TEMPORARY CONCRETE BARRIER
-  IMPACT ATTENUATOR

- NOTES:
1. WORK ZONE SPEED LIMIT 35 MPH
 2. IMPACT ATTENUATORS TEMPORARY (NON-DIRECTIVE), TEST LEVEL 3 SHALL BE INSTALLED ACCORDING TO THE MANUFACTURER'S OR SUPPLIER'S SPECIFICATIONS
 3. ALL PROPOSED TEMPORARY SIGNAGE SHOWN SHALL BE INCLUDED IN THE COST OF THE TRAFFIC CONTROL AND PROTECTION, STANDARD 701601 (SPECIAL)
 4. CREST DRIVE WILL BE RIGHT IN / RIGHT OUT ONLY
 5. ALL TEMPORARY PAVEMENT MARKINGS SHALL BE TAPE



FILE NAME: H:\R2202022 - IDOT DB PH 1 & 2 VAR - VAR (P7E194-0511)WO 1-IL 140 over Abandoned RR\CADD\Microstation\CADD_Drawing\0876N19-ctc-stg1a.dgn



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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**







STAGING PLAN - STAGE 2

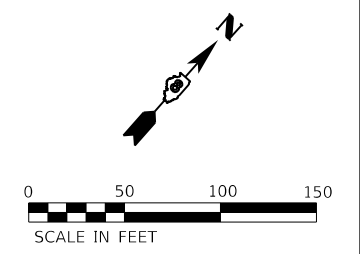
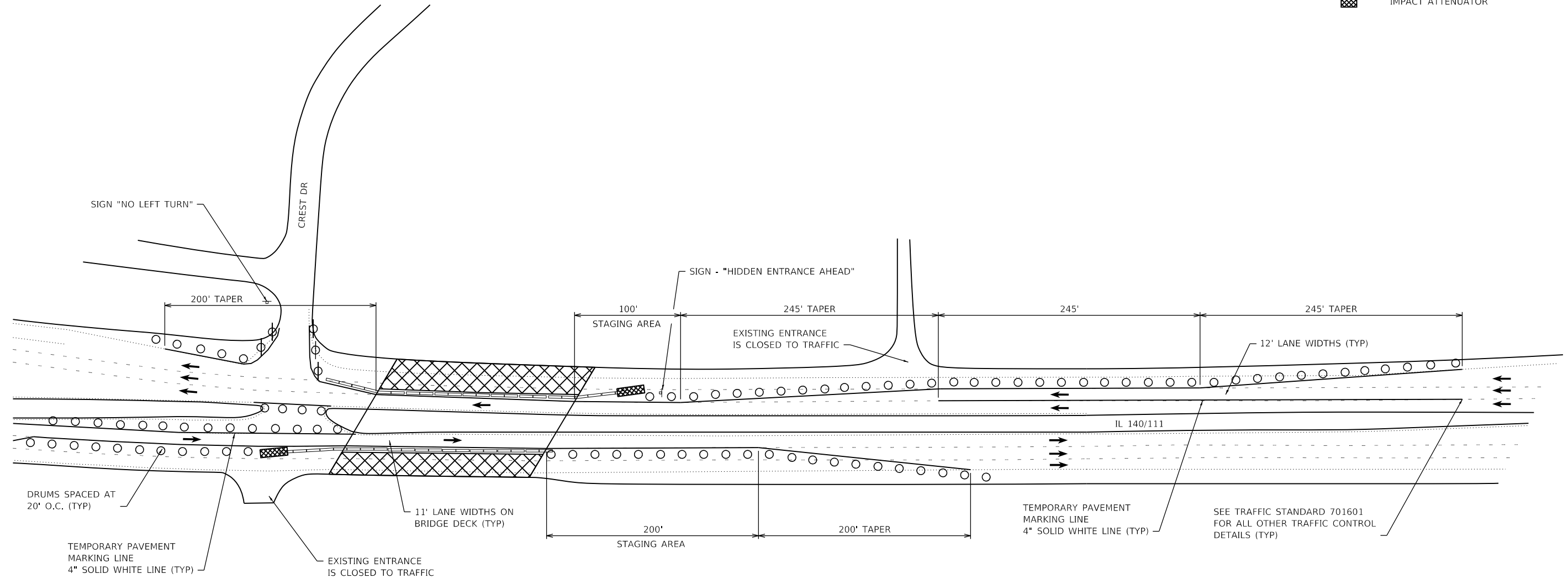
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F.A.P. RTE. 785	SECTION 132-2VBR-2	COUNTY MADISON	TOTAL SHEETS 41	SHEET NO. 13
CONTRACT NO. 76N19				
ILLINOIS FED. AID PROJECT				

- NOTES:
1. WORK ZONE SPEED LIMIT 35 MPH
 2. IMPACT ATTENUATORS TEMPORARY (NON-DIRECTIVE), TEST LEVEL 3 SHALL BE INSTALLED ACCORDING TO THE MANUFACTURER'S OR SUPPLIER'S SPECIFICATIONS
 3. ALL PROPOSED TEMPORARY SIGNAGE SHOWN SHALL BE INCLUDED IN THE COST OF THE TRAFFIC CONTROL AND PROTECTION, STANDARD 701601 (SPECIAL)
 4. CREST DRIVE WILL BE RIGHT IN / RIGHT OUT ONLY
 5. ALL TEMPORARY PAVEMENT MARKINGS SHALL BE TAPE

TRAFFIC CONTROL LEGEND

-  WORK ZONE
-  TRAFFIC CONTROL DRUM
-  TRAFFIC CONTROL DRUM W/ STEADY BURN
-  DIRECTION OF TRAFFIC
-  TEMPORARY CONCRETE BARRIER
-  IMPACT ATTENUATOR



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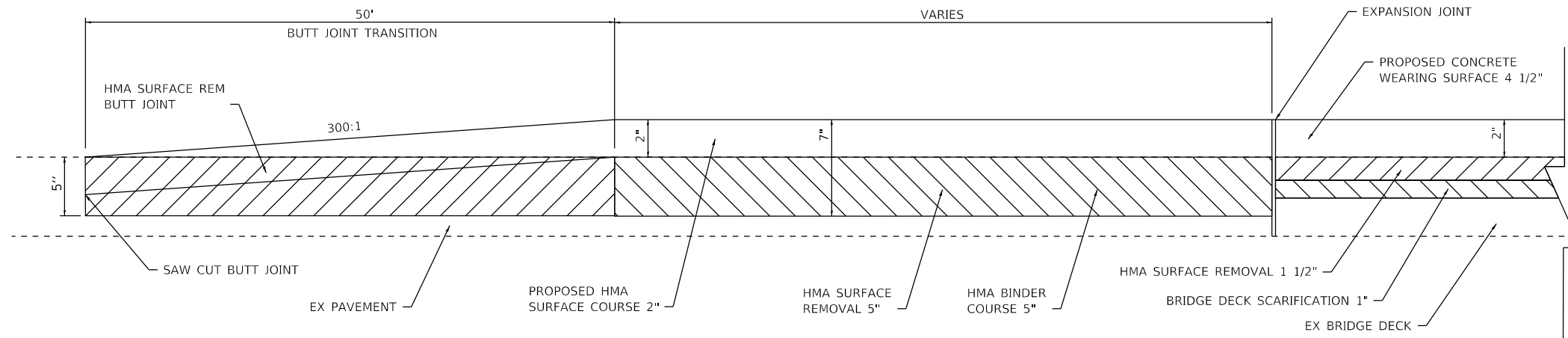
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PLOT DATE = 8/14/2020	CHECKED -	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

STAGING PLAN - STAGE 2

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
785	132-2VBR-2	MADISON	41	14
CONTRACT NO. 76N19				
ILLINOIS FED. AID PROJECT				



BUTT JOINT DETAIL

TO BE PLACED AT EAST AND WEST ENDS OF THE STRUCTURE
NOT TO SCALE

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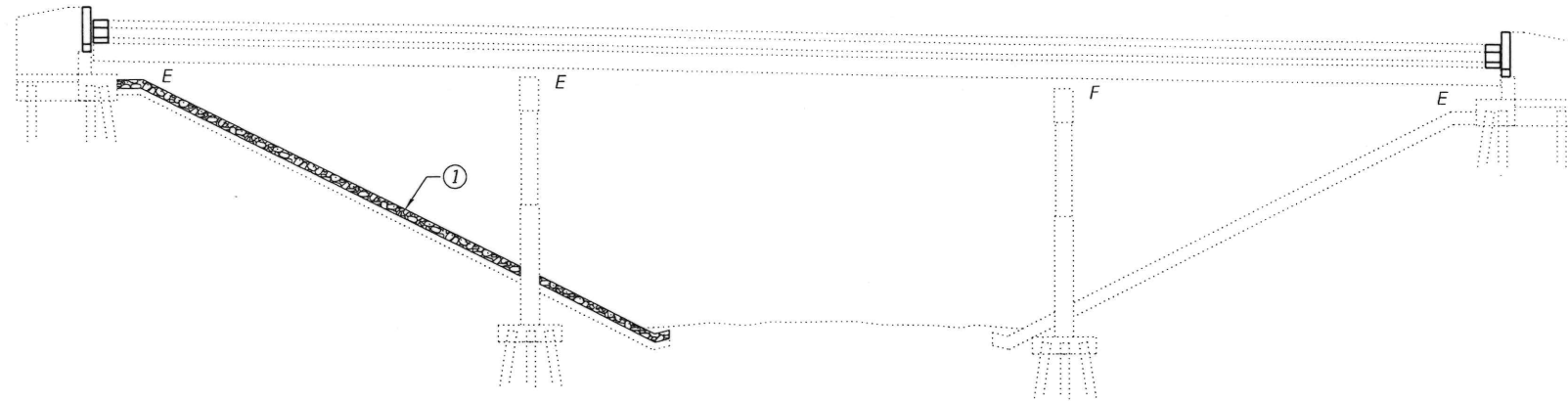
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

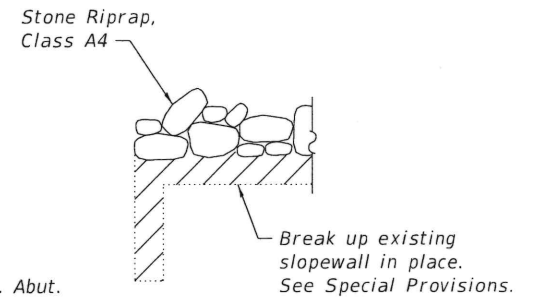
DETAILS

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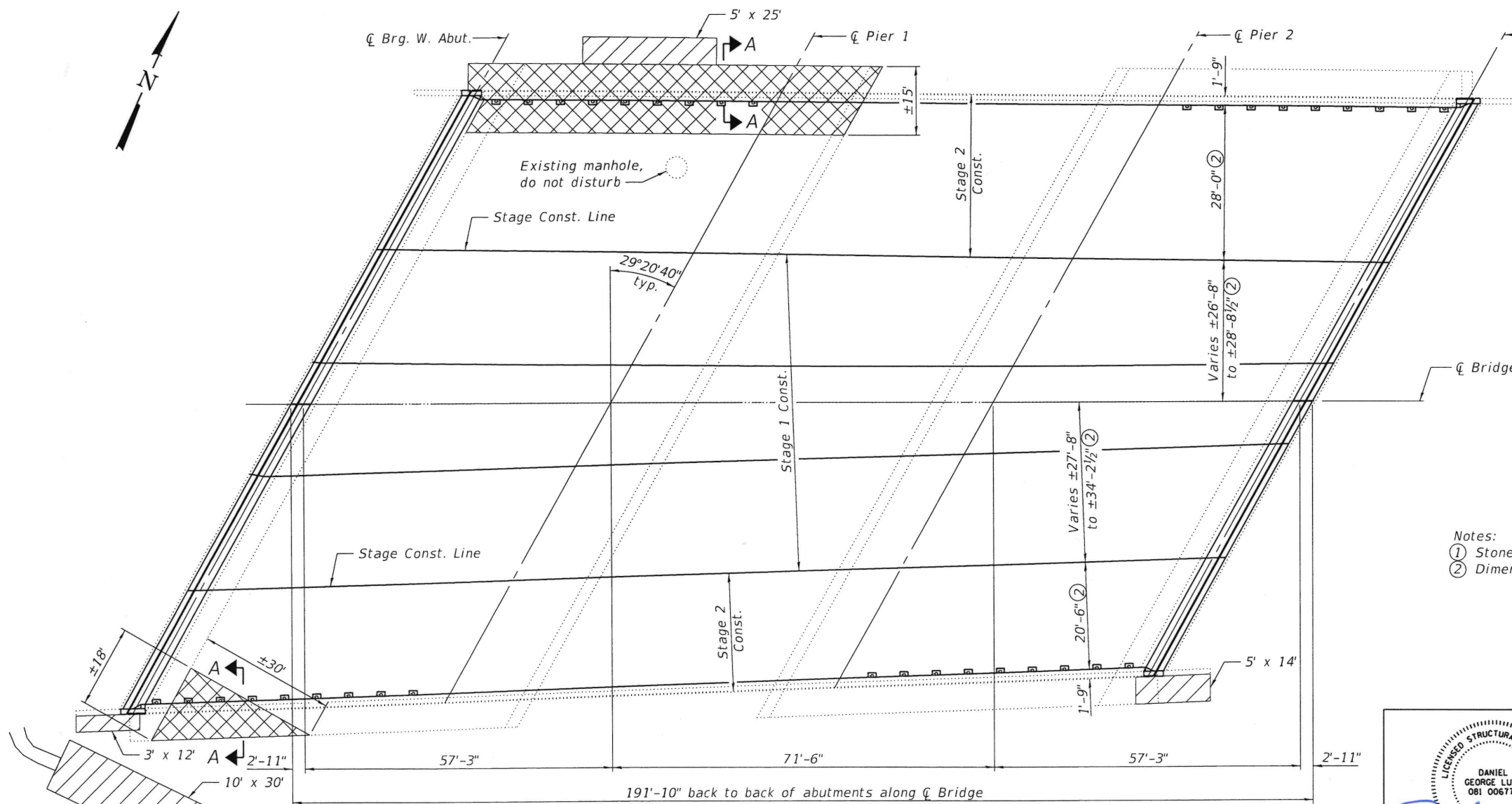
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785	132-2VBR-2	MADISON	41	15
CONTRACT NO. 76N19			ILLINOIS FED. AID PROJECT	



ELEVATION

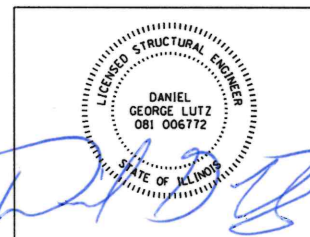


SECTION A-A



PLAN

- Notes:
- ① Stone Riprap, Class A4 at locations shown in Plan. Match existing slope.
 - ② Dimension is perpendicular to face of parapet.



DATE: 8/14/2020
EXPIRATION: 11/30/2020

IL 140/111 OVER ABANDONED RR
F.A.P. RTE. 785 - SEC. 132-2VBR-2
MADISON COUNTY
STRUCTURE NO. 060-0199

- Repair erosion on bridge cones with Stone Riprap, Class A4
- Slope Wall Breaking and Stone Riprap, Class A4

FILE NAME: H:\P220222 - IDOT D8 PH 1 & 2 VAR - VAR (PTB194-054)\WO 1- IL 140 over Abandoned RR\Bridges\Microstation\0600199-76N19-001-General Plan & Elevation.dgn



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	CHECKED - JAD	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL PLAN & ELEVATION
STRUCTURE NO. 060-0199
SHEET 1 OF 26 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
785	132-2VBR-2	MADISON	41	16
CONTRACT NO. 76N19				
ILLINOIS FED. AID PROJECT				

TOTAL BILL OF MATERIAL

ITEM	UNIT	TOTAL
Stone Riprap, Class A4	Sq. Yd.	224
Hot-Mix Asphalt Surface Removal, 1½"	Sq. Yd.	1,885
Concrete Removal	Cu. Yd.	36.8
Floor Drains	Each	36
Concrete Superstructure	Cu. Yd.	41.1
Bridge Deck Grooving	Sq. Yd.	1,824
① Protective Coat	Sq. Yd.	1,929
Furnishing and Erecting Structural Steel	Pound	16,900
Reinforcement Bars, Epoxy Coated	Pound	48,080
Bar Splicers	Each	432
Preformed Joint Strip Seal	Foot	255.0
Elastomeric Bearing Assembly, Type I	Each	36
Anchor Bolts, ¾"	Each	144
Concrete Sealer	Sq. Ft.	2,118
Slope Wall Breaking	Sq. Yd.	165
Concrete Wearing Surface, 4½"	Sq. Yd.	1,839
Jack and Remove Existing Bearings	Each	36
Structural Steel Removal	Pound	10,160
Structural Steel Repair	Pound	7,870
Containment and Disposal of Lead Paint Cleaning Residue No. 1	L. Sum	1
Cleaning Bridge Seats	Sq. Ft.	759
Cleaning and Painting Steel Bridge No. 1	L. Sum	1
Bridge Deck Scarification 1"	Sq. Yd.	1,839
Structural Repair of Concrete (Depth Equal to or Less Than 5 Inches)	Sq. Ft.	46
② Deck Slab Repair (Full Depth, Type I)	Sq. Yd.	10
② Deck Slab Repair (Full Depth, Type II)	Sq. Yd.	10
② Deck Slab Repair (Partial)	Sq. Yd.	100
Silicone Joint Sealer, 1"	Foot	190

SCOPE OF WORK

- Remove existing HMA (1½"), scarify bridge deck 1" and install 4½" reinforced concrete overlay
- Replace floor drains
- Replace expansion joints
- Install Silicone Joint Sealer in longitudinal joint
- Deck Slab Repair as directed by the Engineer
- Replace abutment rocker bearings with elastomeric bearings
- Paint beam ends
- Repair beam ends
- Replace steel diaphragms at abutments
- Clean abutment seats
- Structural repair of concrete at abutments
- Seal abutments
- Break up concrete slopewall and overlay with riprap
- Repair bridge cone erosion with riprap

INDEX OF SHEETS

Sheet No.	Description
1	General Plan & Elevation
2	General Data
3-4	Stage Construction Details
5-6	Joint Removal
7-8	Joint Replacement
9-10	Joint Removal & Replacement Details
11	Preformed Joint Strip Seal
12	Bar Splicer Assembly & Mechanical Splicer Details
13	Partial Framing Plan
14	Diaphragm & Beam Repair Details
15	Bearing Replacement Details at Abutments
16-17	Substructure Repairs
18-26	Existing Bridge Plans

GENERAL NOTES

Fasteners shall be ASTM A325 Type I, mechanically galvanized bolts. Bolts ¾" in. Ø, holes 13/16" in. Ø, unless otherwise noted.

No field welding is permitted except as specified in the contract documents.

Reinforcement bars designated (E) shall be epoxy coated.

Prior to pouring the new concrete deck, all heavy or loose rust, loose mill scale, and other loose or potentially detrimental foreign material shall be removed from the surfaces in contact with the concrete. Tightly adhered paint may remain unless otherwise noted. Removal shall be accomplished by methods that will not damage the steel and the cost will be included in the pay item covering removal of existing concrete.

Plan dimensions and details relative to existing plans are subject to nominal construction variations. The Contractor shall field verify existing dimensions and details affecting new construction and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in scope of the work, however, the Contractor will be paid for the quantity actually furnished at the unit price bid for the work.

Concrete sealer shall be applied to all exposed surfaces of the abutments.

The existing structural steel coating contains lead. The Contractor shall take appropriate precautions to deal with the presence of lead on this project. See Special Provisions.

All structural steel used in the beam end repairs and diaphragm replacement shall be hot dipped galvanized according to the Special Provision for "Hot Dip Galvanizing for Structural Steel" and shall not be painted.

Cleaning and painting of the existing structural steel shall be as specified in the Special Provision for "Cleaning and Painting Existing Structural Steel Structures." All steel to remain within 10 ft. (measured along the beam) of the abutment joints shall be cleaned per Near White Blast Cleaning (SSPC-SP10) and painted according to the requirements of paint System 1-0Z/E/U. The color of the final finish coat shall be Interstate Green, Munsell No. 7.5G 4/8.

A minimum of 4 air monitors will be required to monitor abrasive blasting operations at this site. See Special Provision for "Containment and Disposal of Lead Paint Cleaning Residues."

SSPC QP1 and SSPC QP2 Certification is required for this Contract.

Notes:

- Apply Protective Coat to new concrete and concrete overlay surfaces only.
- Deck Slab Repair quantities shown have been included to establish a unit price. Actual quantity of Deck Slab Repair shall be determined by the Engineer in the field. Repair areas shall be included on the as-built plans.

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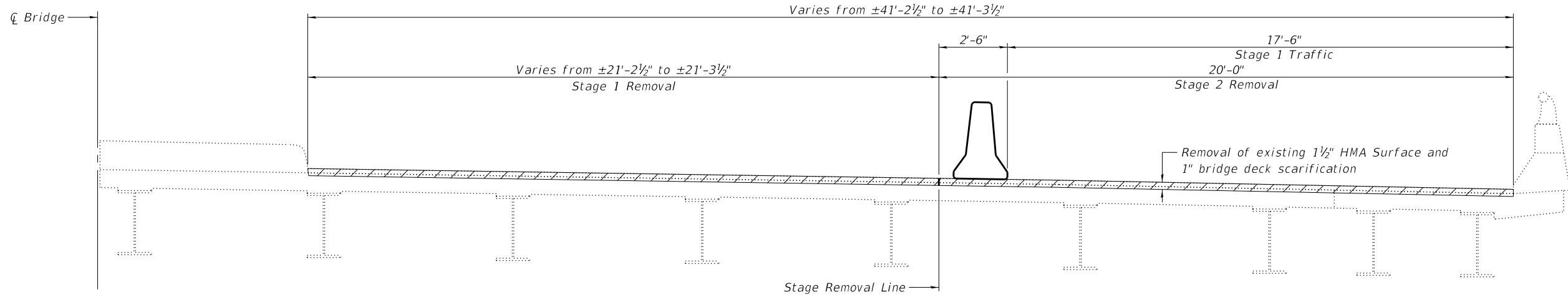
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**GENERAL DATA
STRUCTURE NO. 060-0199**

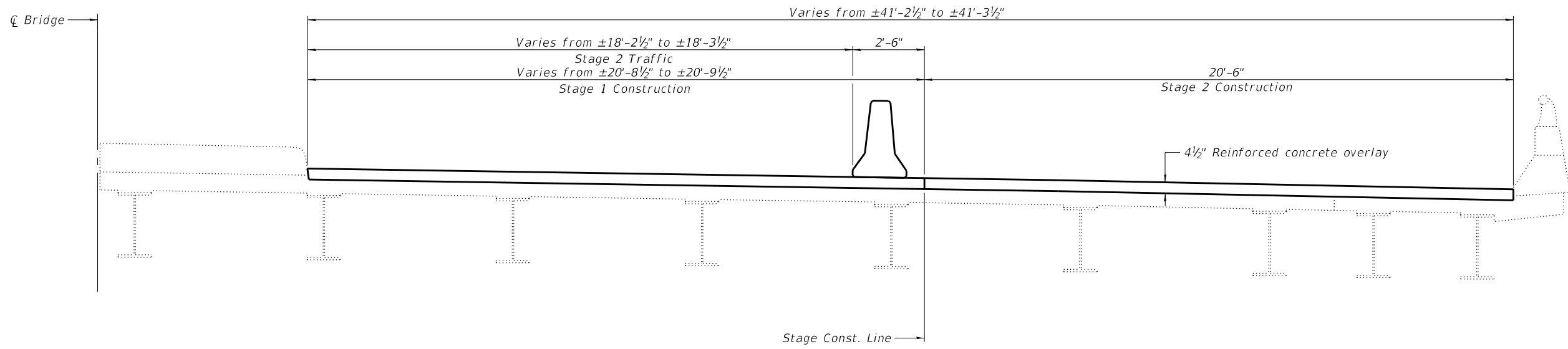
SHEET 2 OF 26 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
785	132-2VBR-2	MADISON	41	17
CONTRACT NO. 76N19				
		ILLINOIS	FED. AID PROJECT	

FILE NAME: H:\P220022 - IDOT D8 PH. 1 & 2 VAR - VAR (PTB194-054)\WO 1- IL 140 over Abandoned RR\Bridge\Microstation\0600199-76N19-003-Stage Construction Details.dgn



CROSS SECTION ①
(Eastbound looking east, Showing removal and Stage 1 Traffic)



CROSS SECTION ①
(Eastbound looking east, Showing concrete overlay and Stage 2 Traffic)

Notes:
① Dimensions are perpendicular to face of parapet.



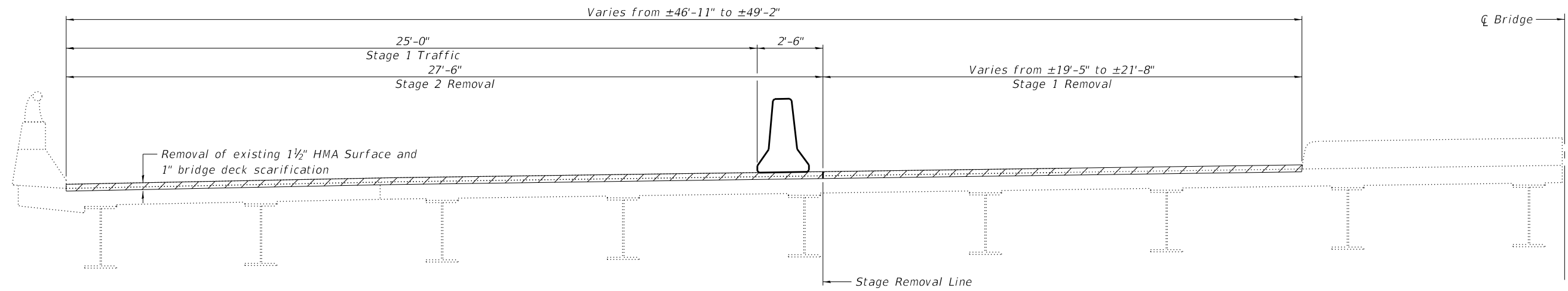
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STAGE CONSTRUCTION DETAILS
STRUCTURE NO. 060-0199

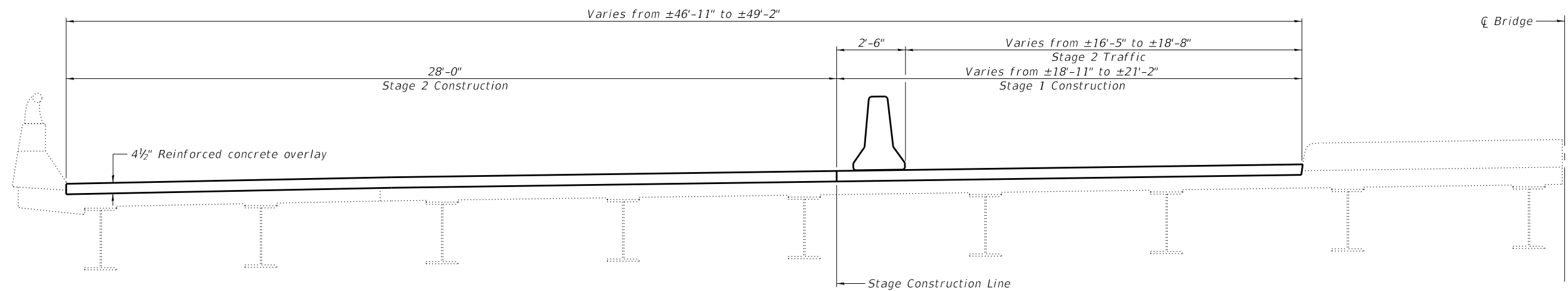
SHEET 3 OF 26 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
785	132-2VBR-2	MADISON	41	18
CONTRACT NO. 76N19				
ILLINOIS FED. AID PROJECT				



CROSS SECTION ①

(Westbound looking east, Showing removal and Stage 1 Traffic)



CROSS SECTION ①

(Westbound looking east, Showing concrete overlay and Stage 2 Traffic)

Notes:
 ① Dimensions are perpendicular to face of parapet.

FILE NAME: H:\P220022 - IDOT D8 PH. 1 & 2 VAR - VAR (PTB194-054)\WO 1- IL 140 over Abandoned RR\Bridge\Microstation\0600199-76N19-004-Stage Construction Details.dgn



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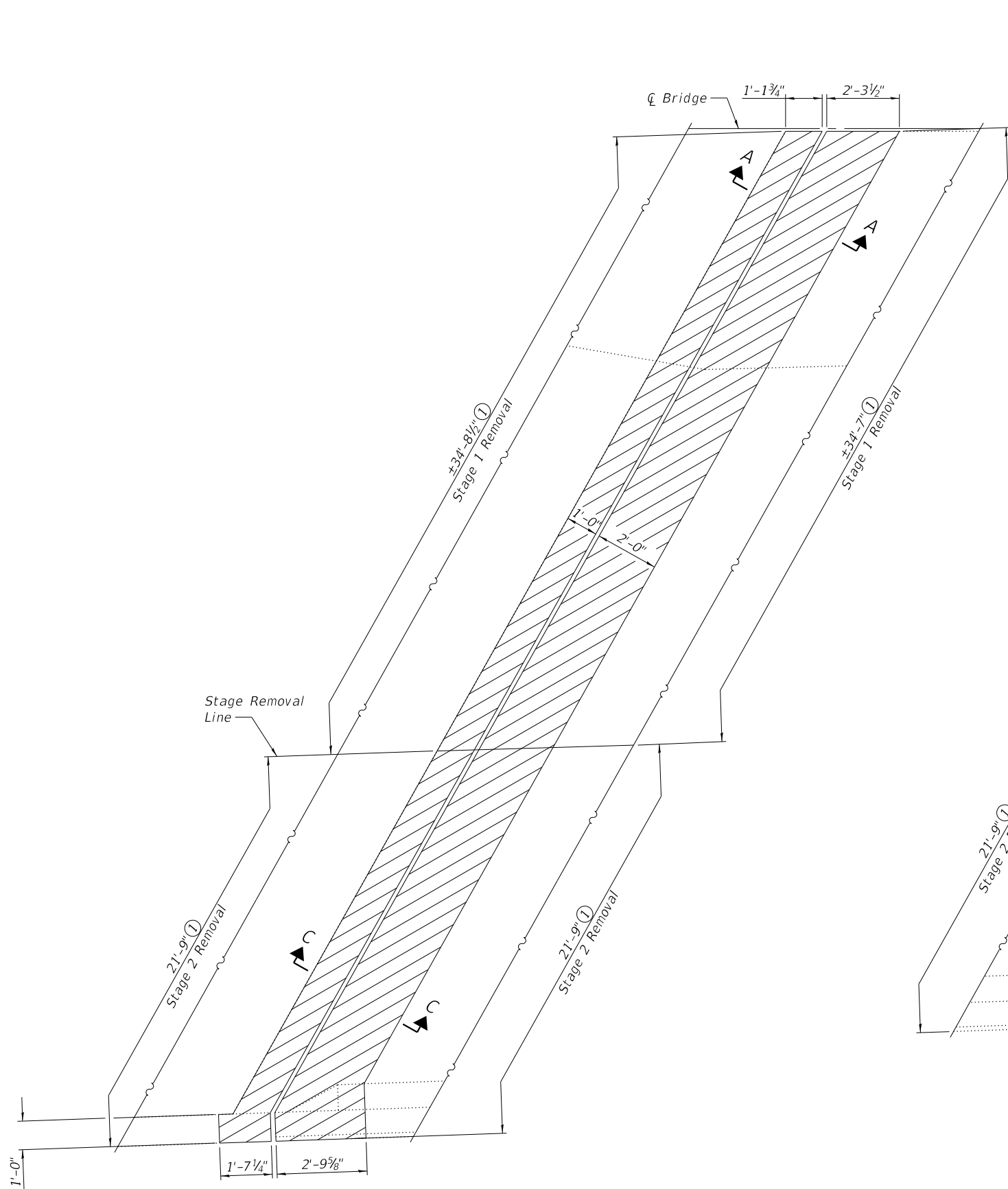
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**STAGE CONSTRUCTION DETAILS
 STRUCTURE NO. 060-0199**

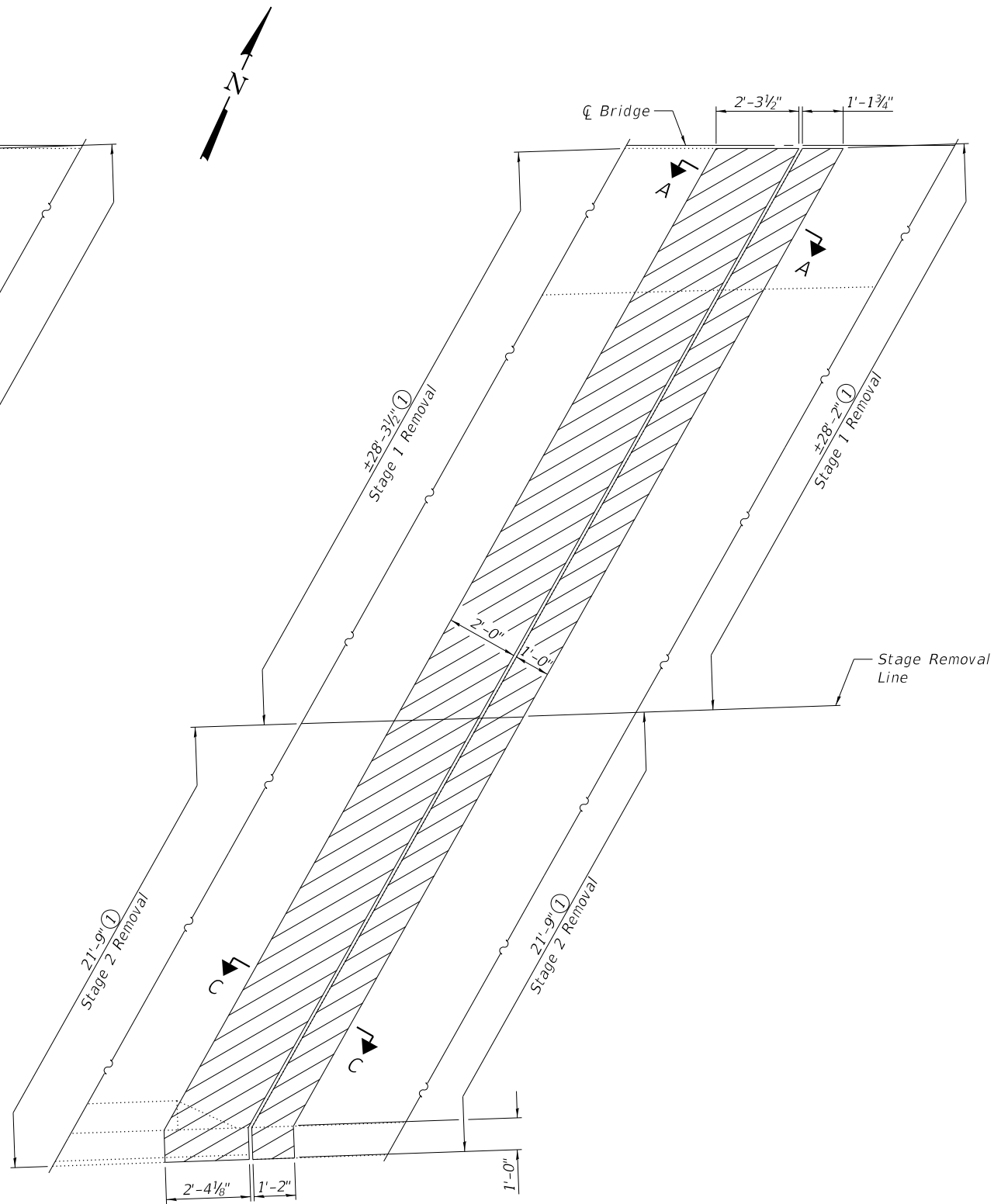
SHEET 4 OF 26 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
785	132-2VBR-2	MADISON	41	19
CONTRACT NO. 76N19				
ILLINOIS FED. AID PROJECT				

FILE NAME: H:\P220022 - IDOT D8 PH. 1 & 2 VAR - VAR (PTB194-054)\WO 1- IL 140 over Abandoned RR\Bridge\Microstation\0600199-76N19-005-10ht Removal.dgn



WEST ABUTMENT
(Eastbound)



EAST ABUTMENT
(Eastbound)

- Notes:
- ① Dimension is perpendicular to face of parapet.
 - ② For Sections A-A and C-C, see sheet 9 of 26.
 - ③ Hatched area indicates Concrete Removal.



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	CHECKED - JAD	REVISED -
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PLOT DATE = 8/14/2020	CHECKED - JAD	REVISED -

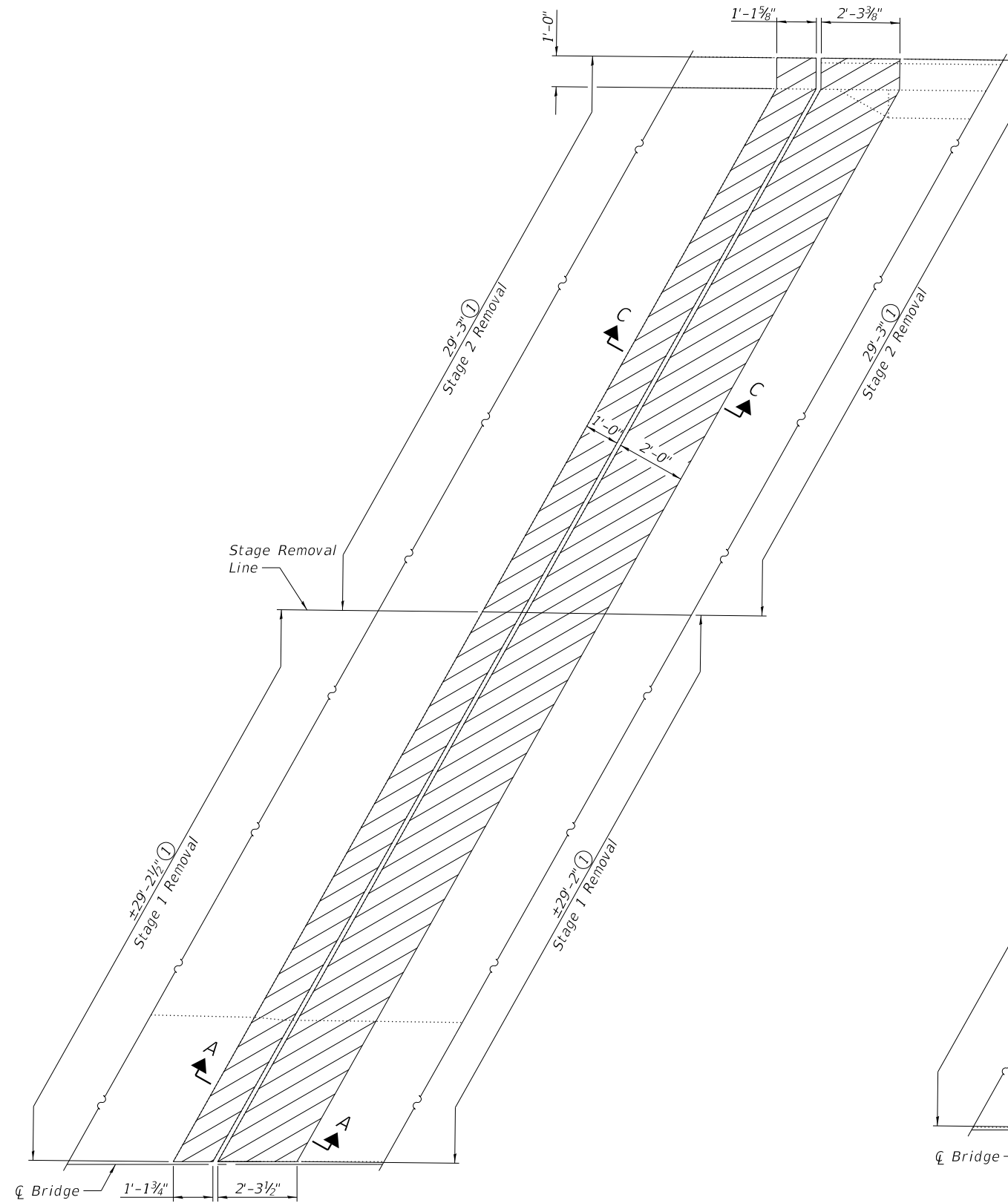
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

JOINT REMOVAL
STRUCTURE NO. 060-0199

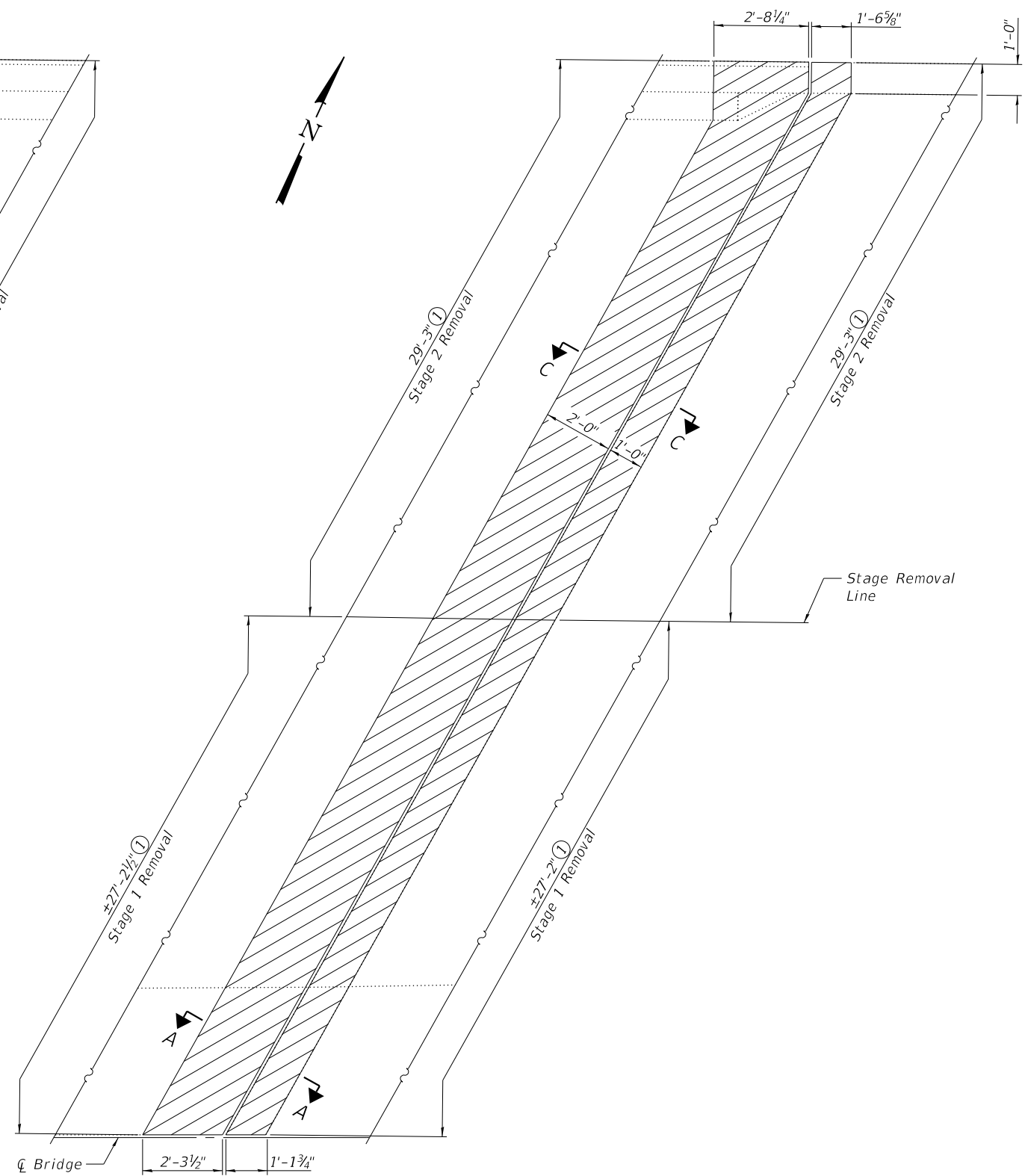
SHEET 5 OF 26 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
785	132-2VBR-2	MADISON	41	20
CONTRACT NO. 76N19				
ILLINOIS FED. AID PROJECT				

FILE NAME: H:\P220022 - IDOT D8 PH. 1 & 2 VAR - VAR (PTB194-054)\WO 1- IL 140 over Abandoned RR\Bridge\Microstation\0600199-76N19-006-10ht Removal.dgn



WEST ABUTMENT
(Westbound)



EAST ABUTMENT
(Westbound)

- Notes:
- ① Dimension is perpendicular to face of parapet.
 - ② For Sections A-A and C-C, see sheet 9 of 26.
 - ③ Hatched area indicates Concrete Removal.



USER NAME =	DESIGNED - MAM	REVISED -
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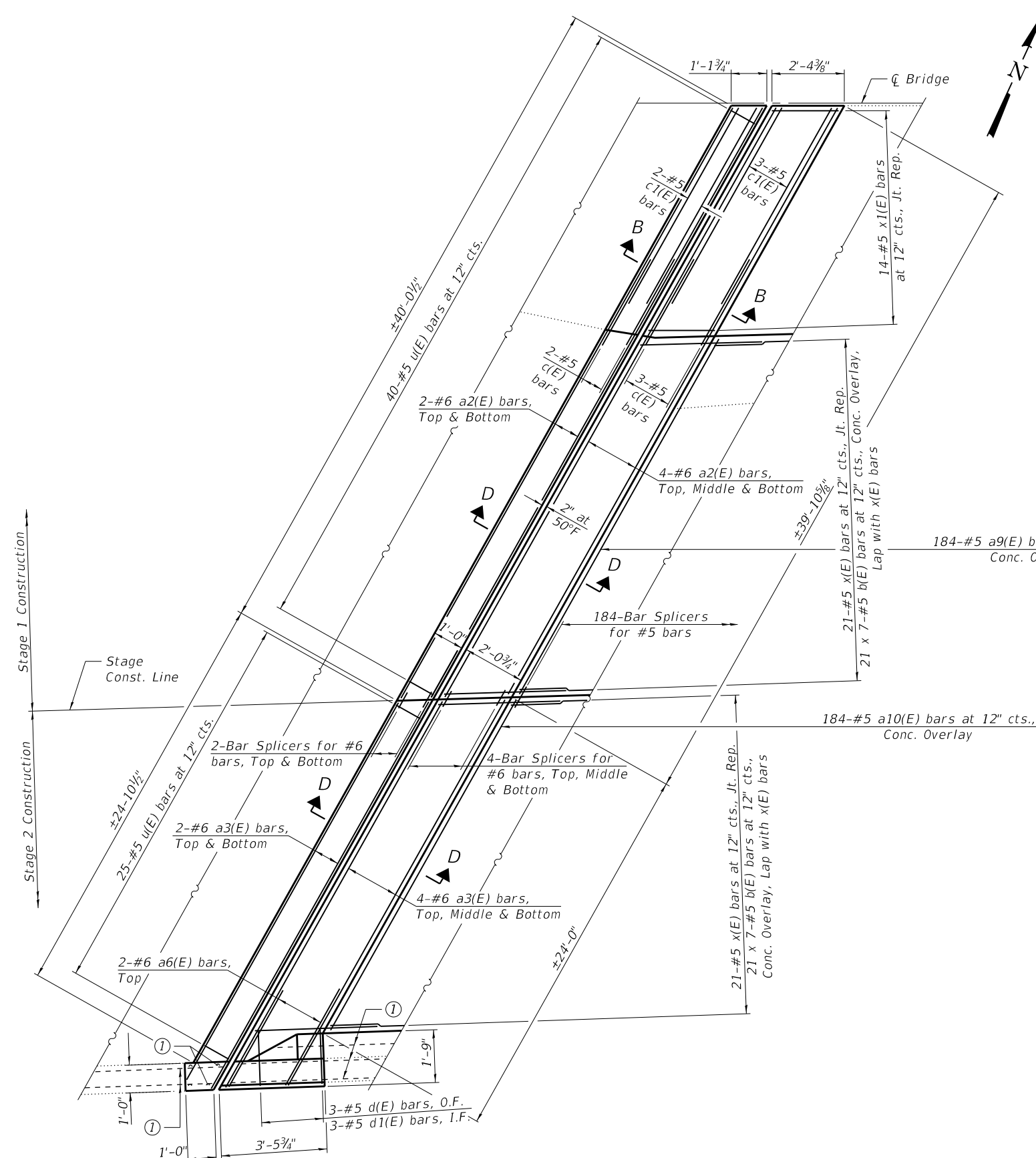
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JOINT REMOVAL
STRUCTURE NO. 060-0199

SHEET 6 OF 26 SHEETS

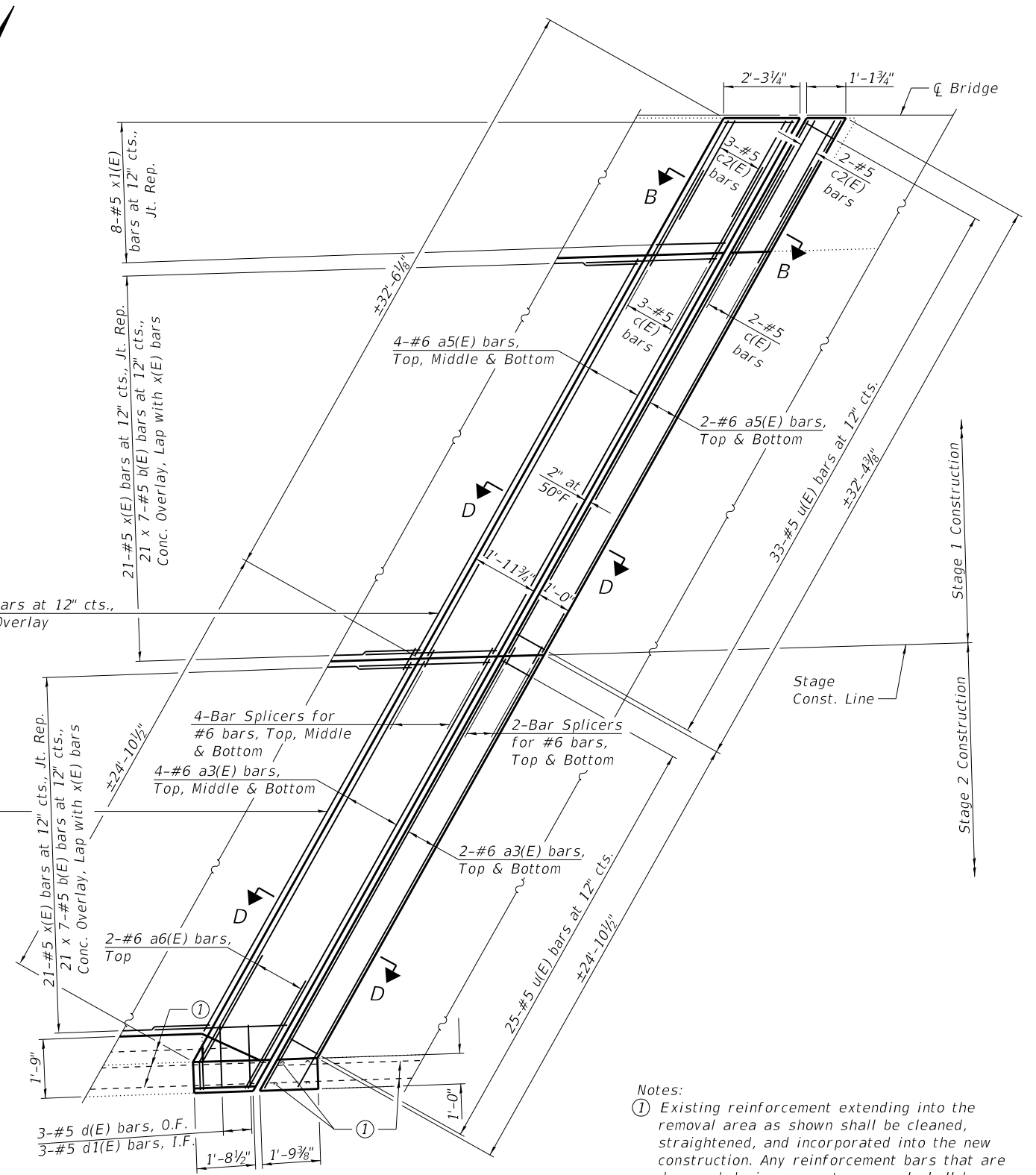
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785	132-2VBR-2	MADISON	41	21
CONTRACT NO. 76N19				
ILLINOIS FED. AID PROJECT				

FILE NAME: H:\P220022 - IDOT D8 PH. 1. & 2. VAR - VAR (PTB194-054)\WO 1- IL 140 over Abandoned RR\Bridge\Microstation\0600199-76N19-007-Joint Replacement.dgn



WEST ABUTMENT
(Eastbound)

MIN. BAR LAP
#5 = 3'-0"



EAST ABUTMENT
(Eastbound)

- Notes:
- ① Existing reinforcement extending into the removal area as shown shall be cleaned, straightened, and incorporated into the new construction. Any reinforcement bars that are damaged during concrete removal shall be replaced with an approved bar splicer or anchorage system. Cost shall be included with Concrete Removal.
 - ② Cut or bend a bars as required to fit.
 - ③ For Sections B-B and D-D, bar details, Bill of Material, and additional details, see sheets 9 and 10 of 26.
 - ④ For bar splicer details, see sheet 12 of 26.
 - ⑤ Bars indicated thus 21 x 7 - #5 etc. indicates 21 lines of bars with 7 lengths per line.
 - ⑥ I.F. denotes Inside Face.
O.F. denotes Outside Face.



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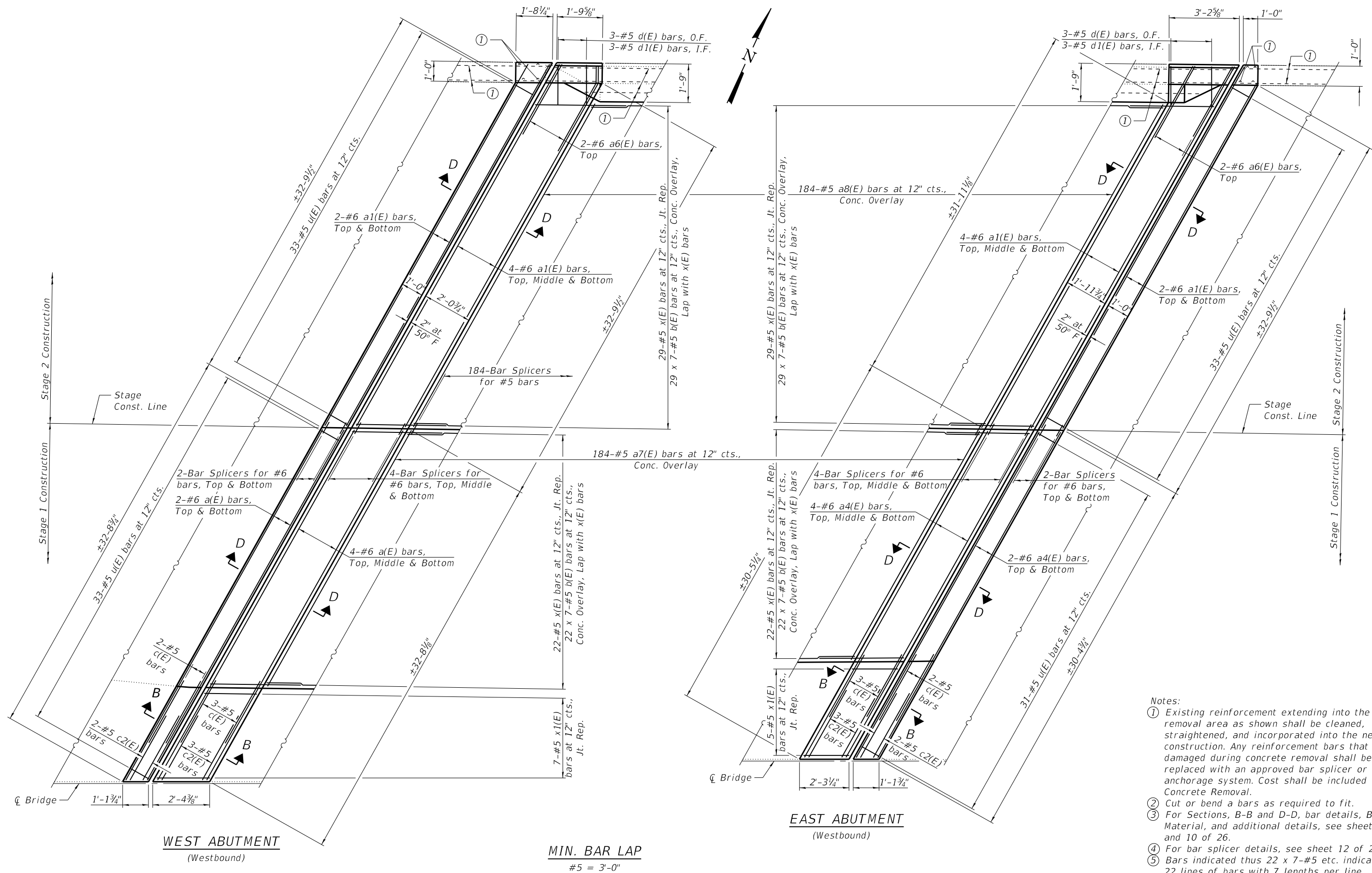
JOINT REPLACEMENT
STRUCTURE NO. 060-0199

SHEET 7 OF 26 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
785	132-2VBR-2	MADISON	41	22
CONTRACT NO. 76N19				

ILLINOIS FED. AID PROJECT

FILE NAME: H:\P220022 - IDOT D8 PH. 1 & 2 VAR - VAR (PTB194-054)\WO 1- IL 140 over Abandoned RRB\Bridges\Microstation\0600199-76N19-008-Joint Replacement.dgn



MIN. BAR LAP
#5 = 3'-0"

- Notes:
- ① Existing reinforcement extending into the removal area as shown shall be cleaned, straightened, and incorporated into the new construction. Any reinforcement bars that are damaged during concrete removal shall be replaced with an approved bar splicer or anchorage system. Cost shall be included with Concrete Removal.
 - ② Cut or bend a bars as required to fit.
 - ③ For Sections, B-B and D-D, bar details, Bill of Material, and additional details, see sheets 9 and 10 of 26.
 - ④ For bar splicer details, see sheet 12 of 26.
 - ⑤ Bars indicated thus 22 x 7-#5 etc. indicates 22 lines of bars with 7 lengths per line.
 - ⑥ I.F. denotes Inside Face.
O.F. denotes Outside Face.



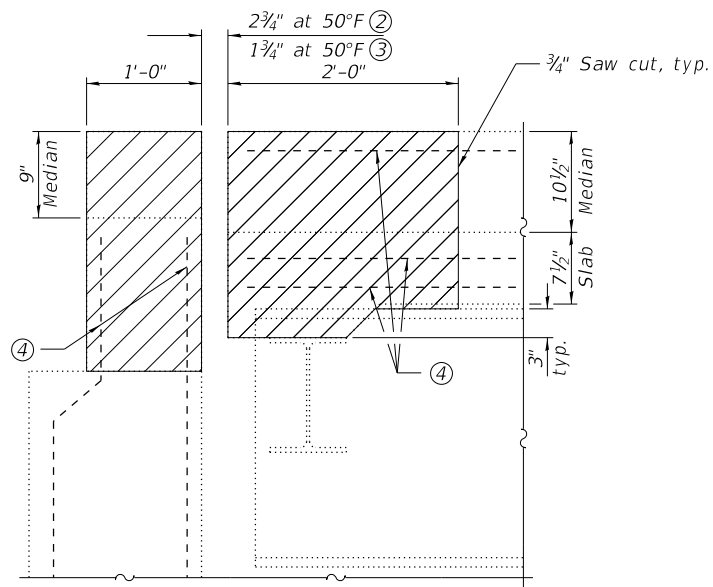
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	CHECKED - JAD	REVISED -

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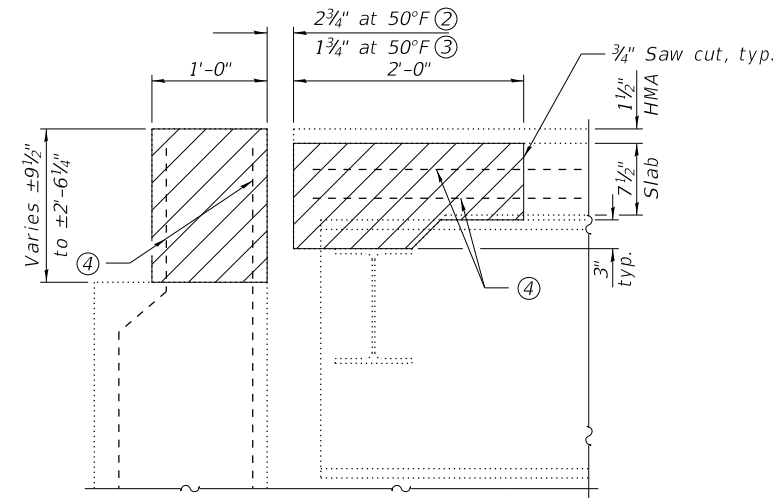
JOINT REPLACEMENT
STRUCTURE NO. 060-0199

SHEET 8 OF 26 SHEETS

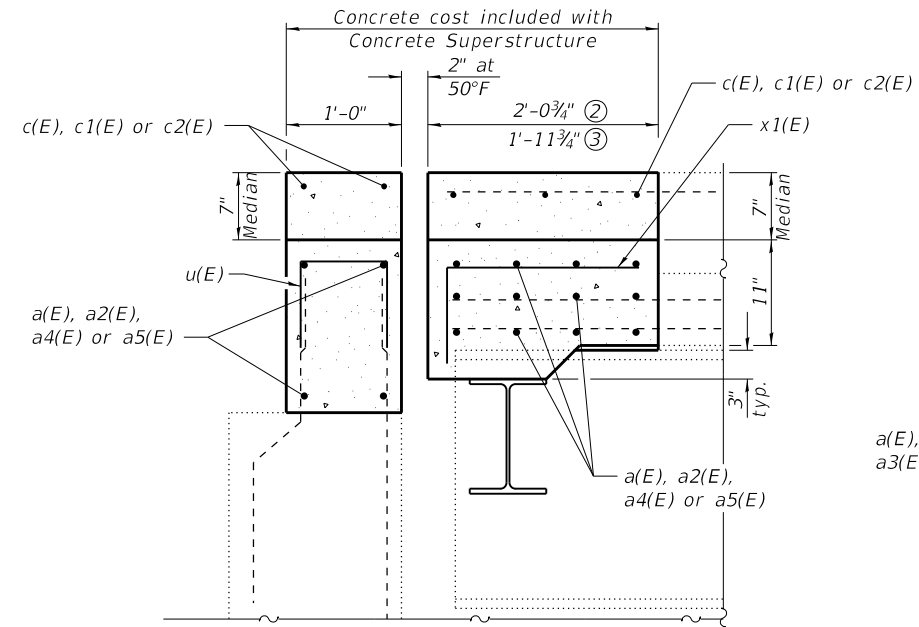
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CONTRACT NO. 76N19				
ILLINOIS FED. AID PROJECT				



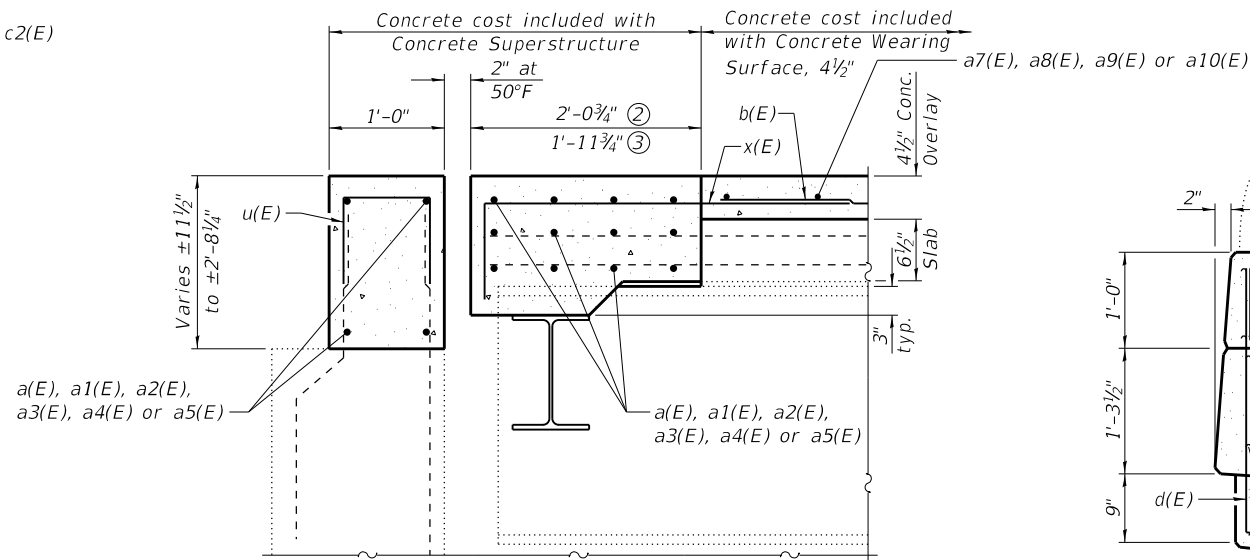
SECTION A-A ⑥
(Dim. at Rt. L's)



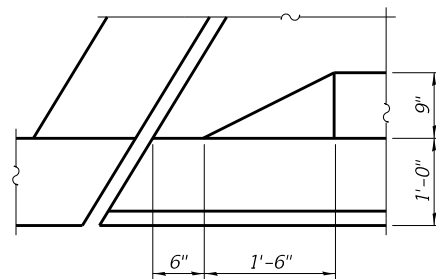
SECTION C-C ⑥
(Dim. at Rt. L's)



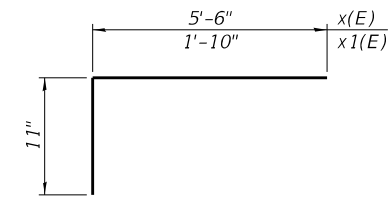
SECTION B-B
(Dim. at Rt. L's)



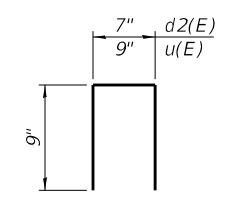
SECTION D-D
(Dim. at Rt. L's)



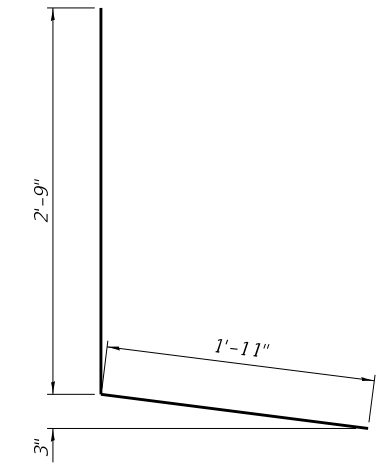
CORNER DETAIL



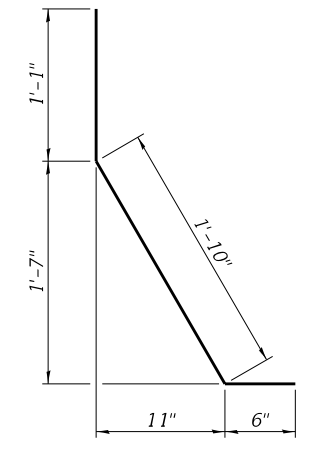
BARS x(E) & x1(E)



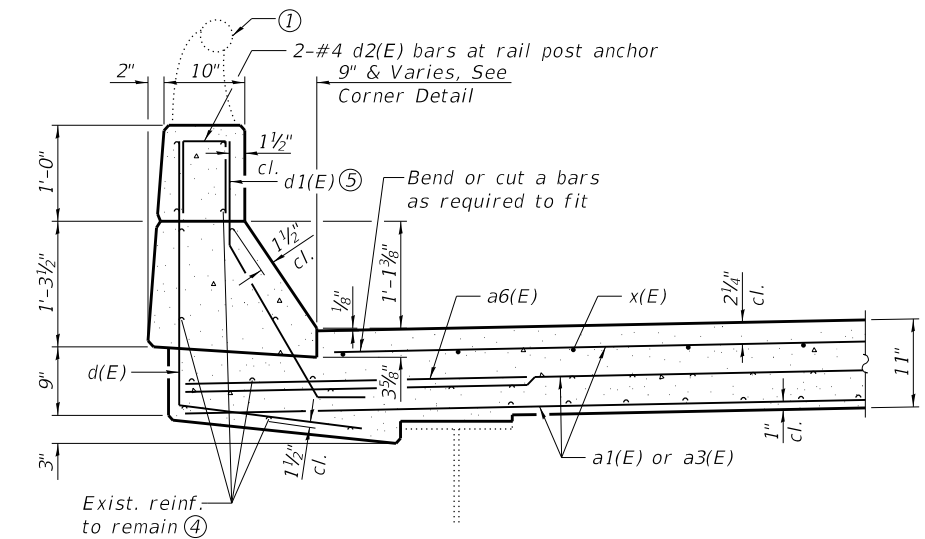
BARS d2(E) & u(E)



BAR d(E)



BAR d1(E)



SECTION THRU PARAPET AT JOINT REPLACEMENT

Notes:

- ① Remove existing concrete around rail post anchor and re-use the anchor. Cost included with Concrete Removal and Concrete Superstructure.
- ② West Abutment
- ③ East Abutment
- ④ Existing reinforcement extending into the removal area as shown shall be cleaned, straightened, and incorporated into the new construction. Any reinforcement bars that are damaged during concrete removal shall be replaced with an approved bar splicer or anchorage system. Cost shall be included with Concrete Removal.
- ⑤ Bend d1(E) bars as required to fit as parapet tapers.
- ⑥ Hatched area indicates Concrete Removal.

FILE NAME: H:\P220022 - IDOT D8 PH. 1 & 2 VAR - VAR (PTB194-054)\WO 1- IL 140 over Abandoned RRB\Bridges\Microstation\0600199-76N19-009-Joint Removal & Replacement Details.dgn



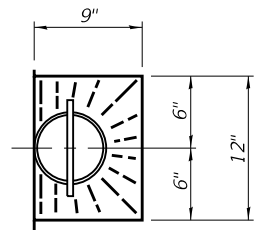
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	CHECKED - JAD	REVISED -

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DEPARTMENT OF TRANSPORTATION**

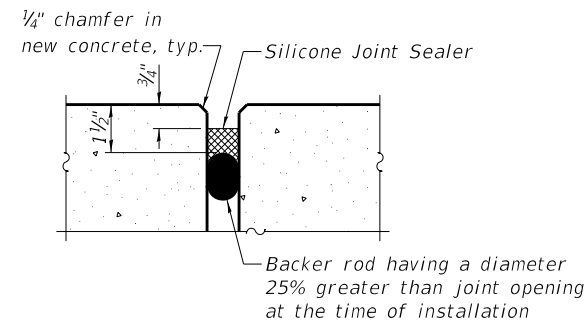
**JOINT REMOVAL & REPLACEMENT DETAILS
STRUCTURE NO. 060-0199**

SHEET 9 OF 26 SHEETS

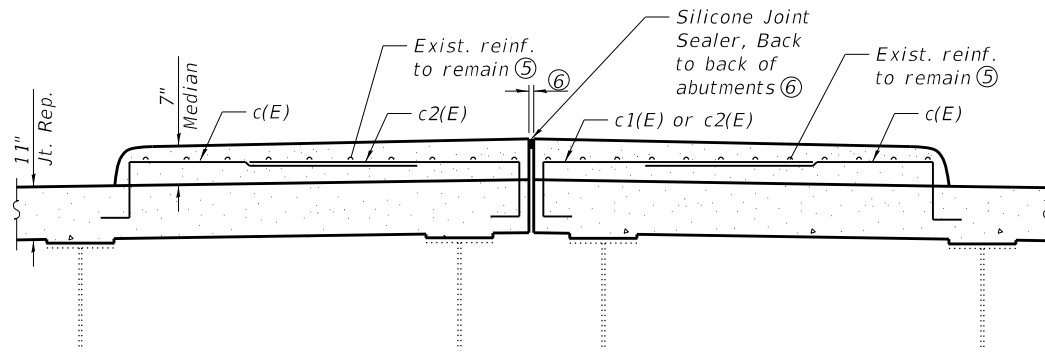
F.A.P. RTE. 785	SECTION 132-2VBR-2	COUNTY MADISON	TOTAL SHEETS 41	SHEET NO. 24
CONTRACT NO. 76N19			ILLINOIS FED. AID PROJECT	



TOP PLAN

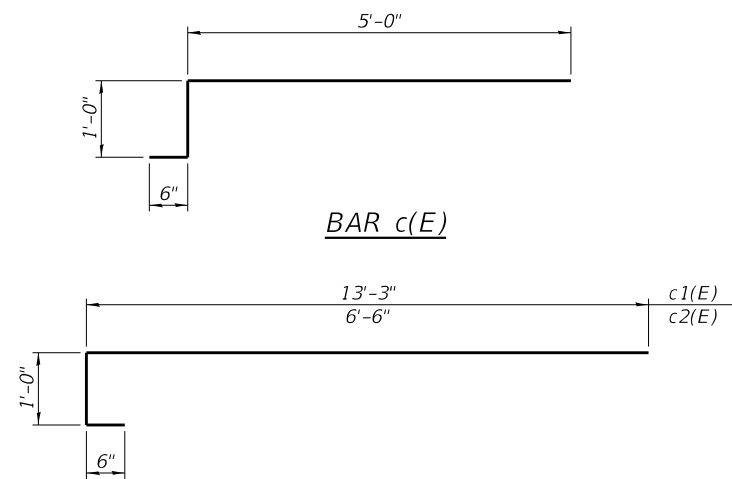


SILICONE JOINT SEALER DETAIL

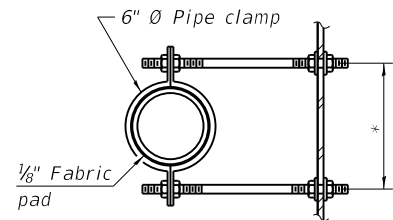


PARTIAL SECTION THRU MEDIAN AT JOINT REPLACEMENT

(Looking East)
(Showing median reinforcement)

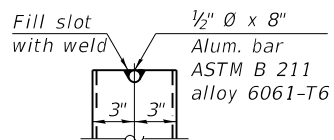


BARS c1(E) & c2(E)

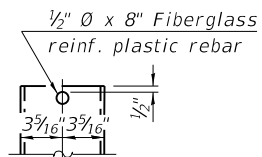


SECTION A-A

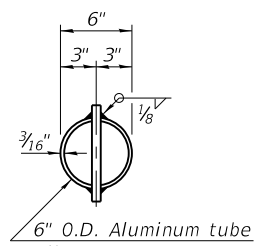
*Dimension as required by pipe clamp



ALUMINUM TUBE

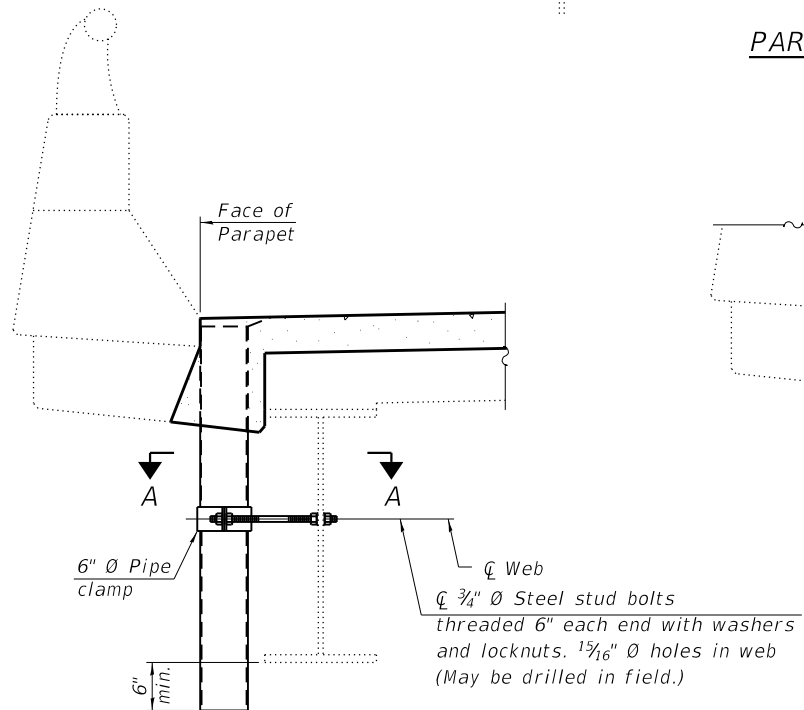


FIBERGLASS PIPE



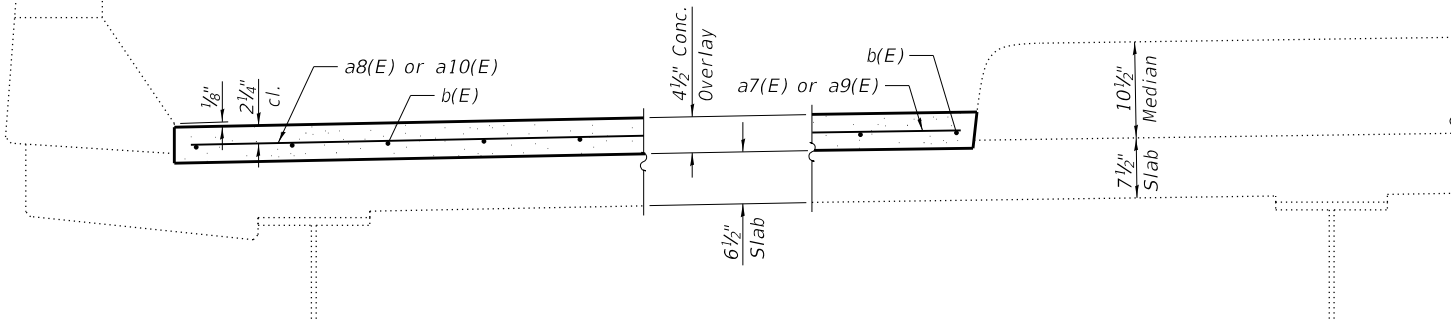
TOP PLAN

(Showing aluminum tube)



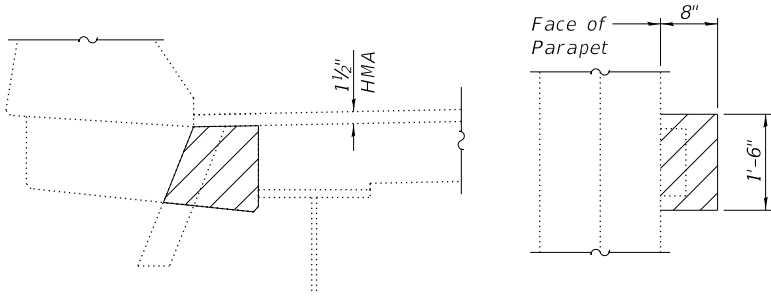
NEW DRAIN DETAIL

(Overlay reinforcement not shown)



PARTIAL SECTION THRU OVERLAY

(WB Looking East)
(EB Looking West)



DRAIN REMOVAL DETAILS

Hatched area indicates Concrete Removal
(36 locations)

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a(E)	16	#6	32'-4"	—
a1(E)	32	#6	33'-6"	—
a2(E)	16	#6	39'-7"	—
a3(E)	32	#6	25'-8"	—
a4(E)	16	#6	30'-1"	—
a5(E)	16	#6	32'-1"	—
a6(E)	8	#6	4'-0"	—
a7(E)	184	#5	23'-9"	—
a8(E)	184	#5	31'-7"	—
a9(E)	184	#5	23'-10"	—
a10(E)	184	#5	23'-7"	—
b(E)	651	#5	29'-3"	—
c(E)	20	#5	6'-6"	—
c1(E)	5	#5	14'-9"	—
c2(E)	15	#5	8'-0"	—
d(E)	12	#5	4'-8"	—
d1(E)	12	#5	3'-5"	—
d2(E)	8	#4	2'-1"	—
u(E)	253	#5	2'-3"	—
x(E)	186	#5	6'-5"	—
x1(E)	34	#5	2'-9"	—
Concrete Removal		Cu. Yd.	36.8	
Concrete Superstructure		Cu. Yd.	41.1	
Reinforcement Bars, Epoxy Coated		Pound	48,080	
Bar Splicers		Each	432	
Concrete Wearing Surface, 4 1/2"		Sq. Yd.	1,839	
Silicone Joint Sealer, 1"		Foot	190	

Notes:

- Fiberglass pipe shall conform to ASTM D2996, with short-time rupture strength hoop tensile stress of 30,000 p.s.i. minimum.
- The exterior surfaces of the floor drains shall be painted according to Article 506 with the finish coat as specified. The exterior surfaces of the drains shall be cleaned according to the Society of Protective Coating's Spec. SSPC-SP1 prior to painting.
- The top portion of aluminum floor drains shall be coated to minimize reaction with wet concrete.
- The clamping device shall be galvanized according to AASHTO M 232. Cost of clamping device included with Floor Drains.
- Existing reinforcement extending into the removal area as shown shall be cleaned, straightened, and incorporated into the new construction. Any reinforcement bars that are damaged during concrete removal shall be replaced with an approved bar splicer or anchorage system. Cost shall be included with Concrete Removal.
- Existing longitudinal joint width varies from 1/2" to 2".

FILE NAME: H:\P220022 - IDOT D8 PH. 1 & 2 VAR - VAR (PTB194-054)\WO 1 - IL 140 over Abandoned RR\Bridg\Microstation\0600199-76N19-010-Joint Removal & Replacement Details.dgn



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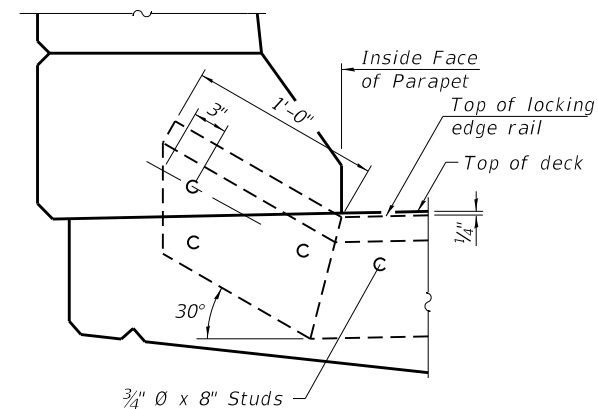
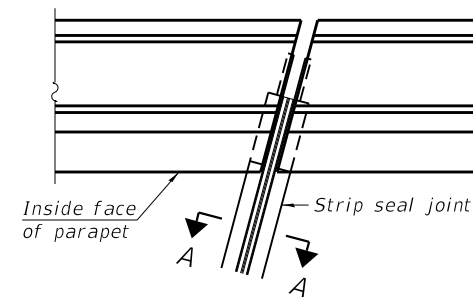
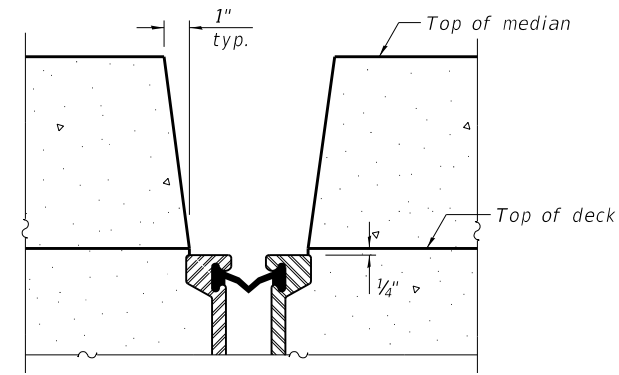
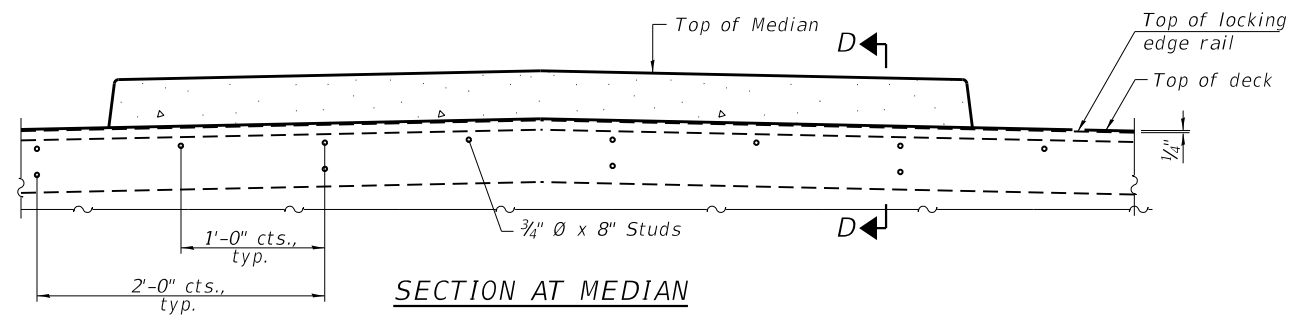
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

JOINT REMOVAL & REPLACEMENT DETAILS
STRUCTURE NO. 060-0199

SHEET 10 OF 26 SHEETS

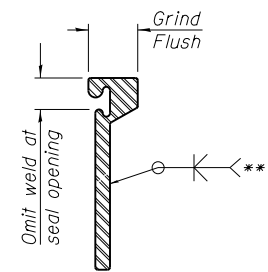
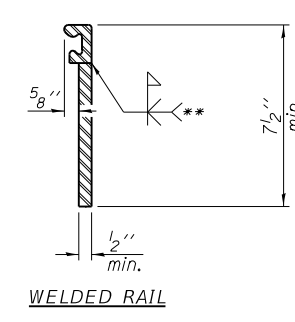
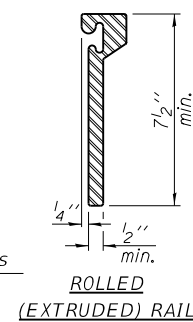
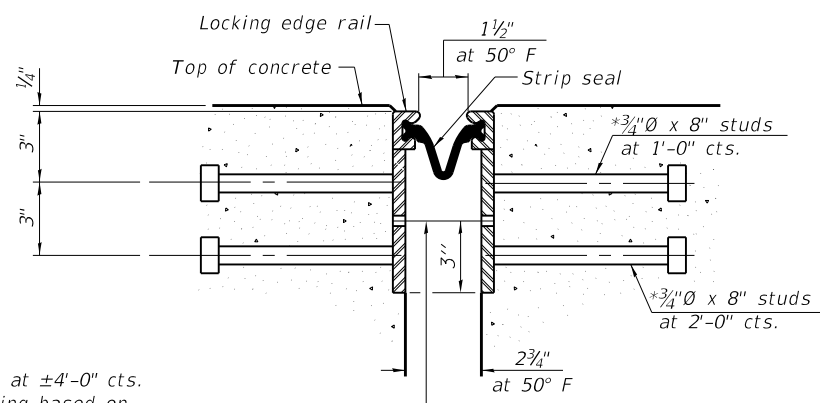
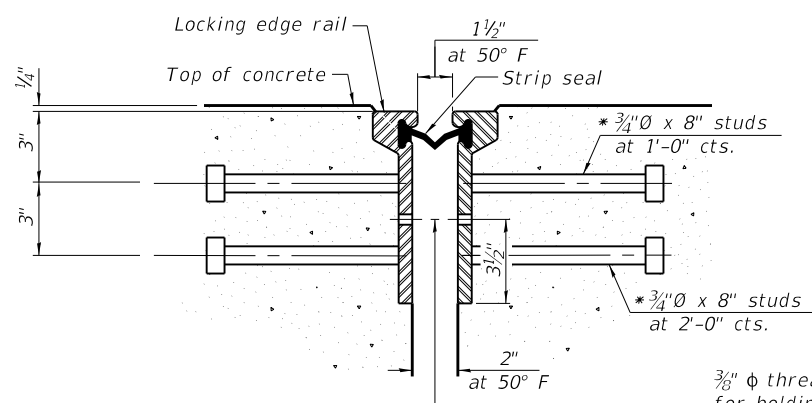
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
785	132-2VBR-2	MADISON	41	25
CONTRACT NO. 76N19				
ILLINOIS FED. AID PROJECT				

FILE NAME: H:\P220022 - IDOT D8 PH. 1 & 2 VAR - VAR (PTB194-054)\WO 1 - IL 140 over Abandoned RRB\Bridg\Microstation\0600199-76N19-011-Preformed Joint Strip Seal.dgn



PLAN AT PARAPET

ELEVATION AT PARAPET



SHOWING ROLLED RAIL JOINT

SHOWING WELDED RAIL JOINT

ROLLED (EXTRUDED) RAIL

WELDED RAIL

LOCKING EDGE RAIL SPLICE

The inside of the locking edge rail groove shall be free of weld residue. Rolled rail shown, welded rail similar.

LOCKING EDGE RAILS

** Back gouge not required if complete joint penetration is verified by mock-up.

BILL OF MATERIAL

Item	Unit	Total
Preformed Joint Strip Seal	Foot	255.0

SECTION A-A

* Granular or solid flux filled headed studs conforming to Article 1006.32 of the Std. Specs., automatically end welded.



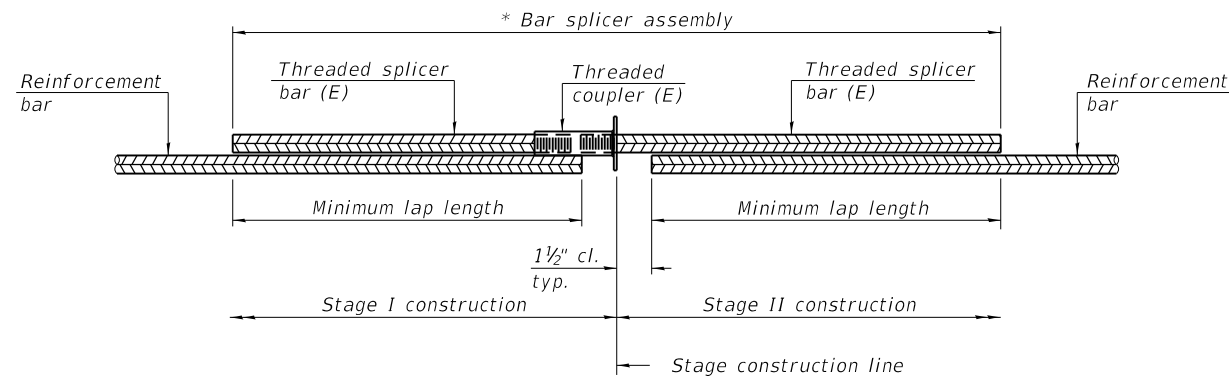
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	CHECKED - JAD	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PREFORMED JOINT STRIP SEAL
STRUCTURE NO. 060-0199

SHEET 11 OF 26 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
785	132-2VBR-2	MADISON	41	26
CONTRACT NO. 76N19				
ILLINOIS FED. AID PROJECT				

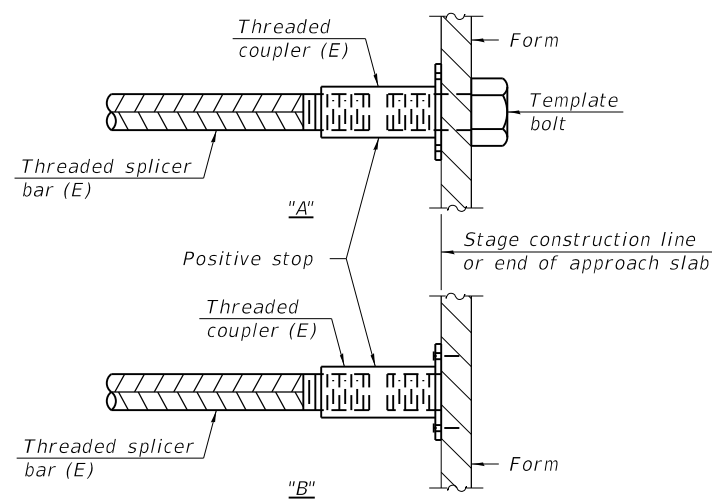


STANDARD BAR SPLICER ASSEMBLY PLAN
 (All components shall be provided from one supplier)

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
Joint Replacement	6	64	4'-0"
Overlay	5	368	3'-0"

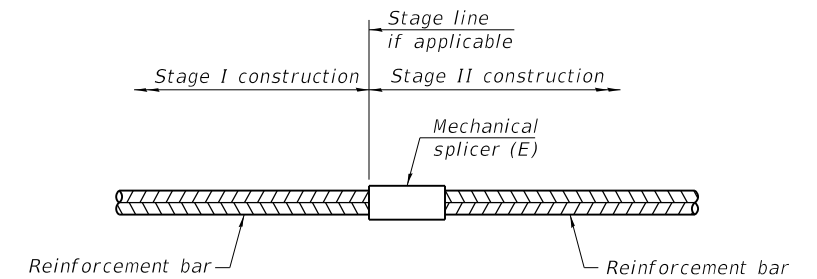


INSTALLATION AND SETTING METHODS

"A" : Set bar splicer assembly by means of a template bolt.

"B" : Set bar splicer assembly by nailing to wood forms or cementing to steel forms.

(E) : Indicates epoxy coating.



STANDARD MECHANICAL SPLICER

Location	Bar size	No. assemblies required

Notes:

Splicer bars shall be deformed with threaded ends and have a minimum 60 ksi yield strength.

All reinforcement shall be lapped and tied to the splicer bars.

Bar splicer assemblies shall be epoxy coated according to the requirements for reinforcement bars. See Section 508 of the Standard Specifications.

See approved list of bar splicer assemblies and mechanical splicers for alternatives.

BSD-1

1-1-2020



USER NAME =	DESIGNED - MAM	REVISED -
	CHECKED - JAD	REVISED -
PLOT SCALE =	DRAWN - MAM	REVISED -
PLOT DATE = 9/28/2020	CHECKED - JAD	REVISED -

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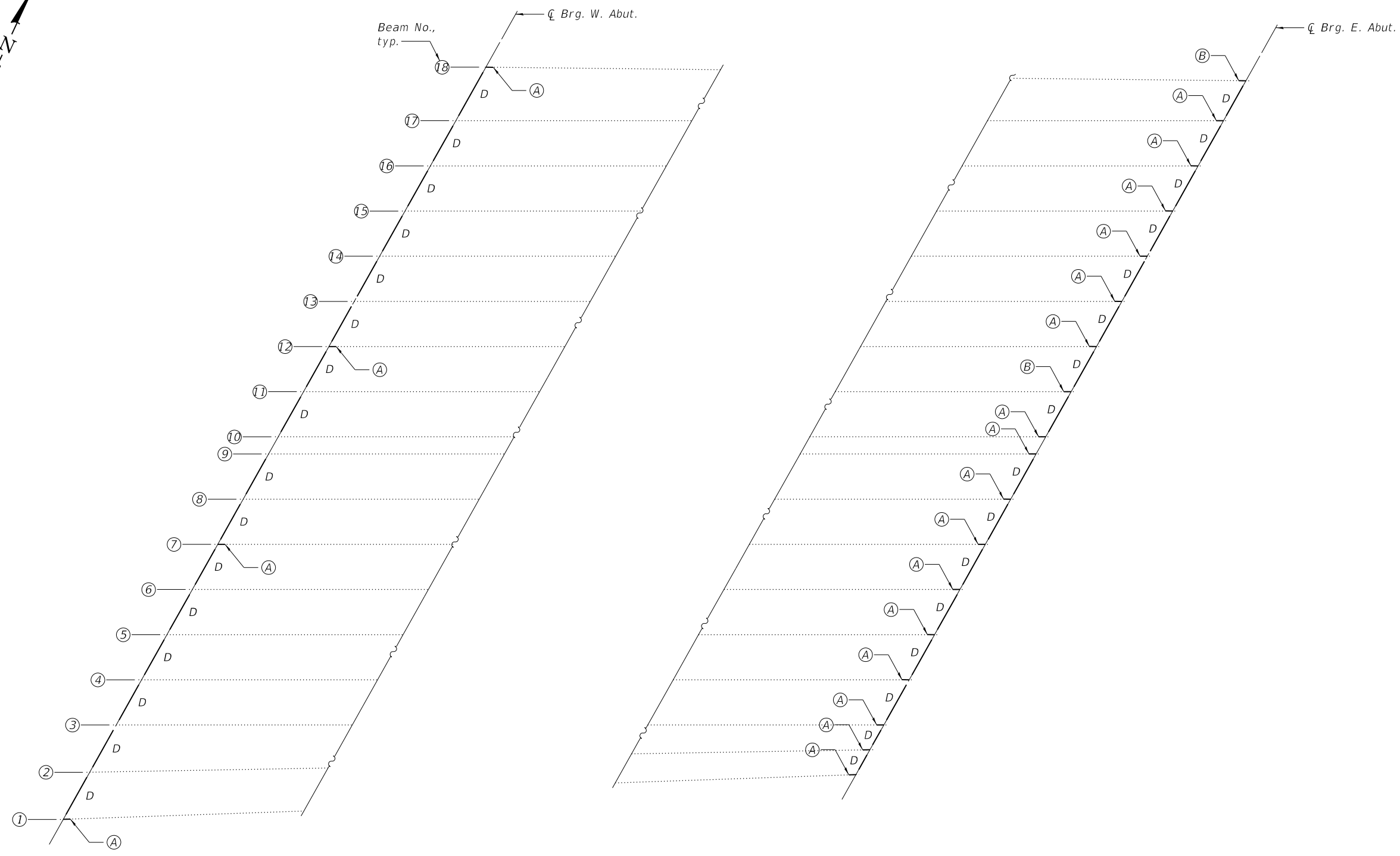
BAR SPLICER ASSEMBLY & MECHANICAL SPLICER DETAILS
 STRUCTURE NO. 060-0199

SHEET 12 OF 26 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
785	132-2VBR-2	MADISON	41	27
CONTRACT NO. 76N19				

ILLINOIS FED. AID PROJECT

FILE NAME: H:\P220022 - IDOT D8 PH. 1 & 2 VAR - VAR (PTB194-054)\WO 1- IL 140 over Abandoned RRB\Bridg\Microstation\0600199-76N19-012-Bar Splicer Assembly & Mechanical Splicer Details.dgn



PARTIAL FRAMING PLAN

- Ⓐ - Repair A
- Ⓑ - Repair B

FILE NAME: H:\P220022 - IDOT D8 PH. 1 & 2 VAR - VAR (PTB194-054)\WO 1- IL 140 over Abandoned RR\Bridges\Microstation\0600199-76N19-013-Partial Framing Plan.dgn



USER NAME =	DESIGNED - MAM	REVISED -
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PLOT SCALE =	DRAWN - MAM	REVISED -
PLOT DATE = 8/14/2020	CHECKED - JAD	REVISED -

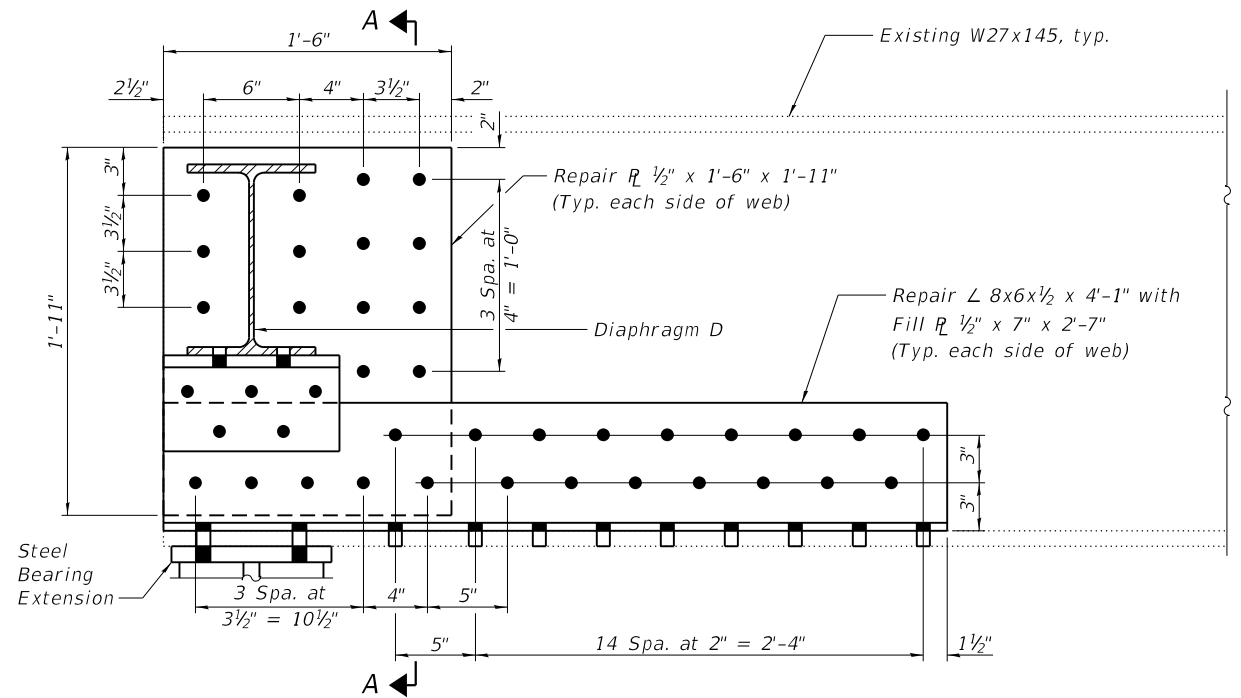
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**PARTIAL FRAMING PLAN
STRUCTURE NO. 060-0199**

SHEET 13 OF 26 SHEETS

F.A.P. RTE. 785	SECTION 132-2VBR-2	COUNTY MADISON	TOTAL SHEETS 41	SHEET NO. 28
CONTRACT NO. 76N19			ILLINOIS FED. AID PROJECT	

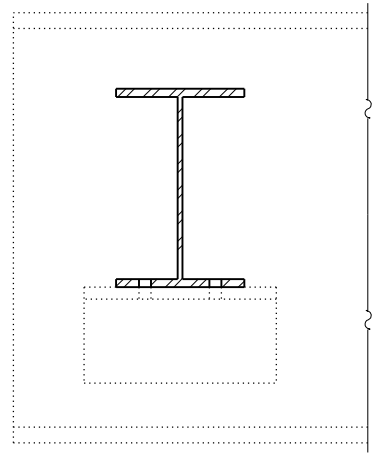
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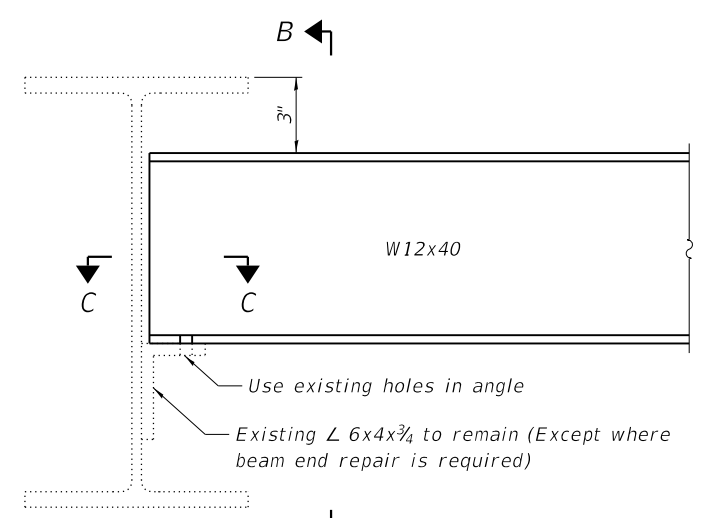
REPAIR A

BOLT HOLE LEGEND ⑦

- Field drill holes
- Shop drill holes

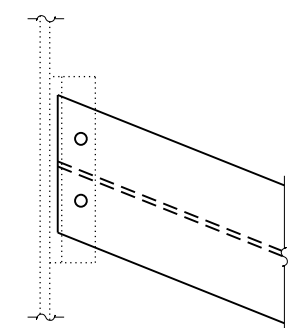


SECTION B-B



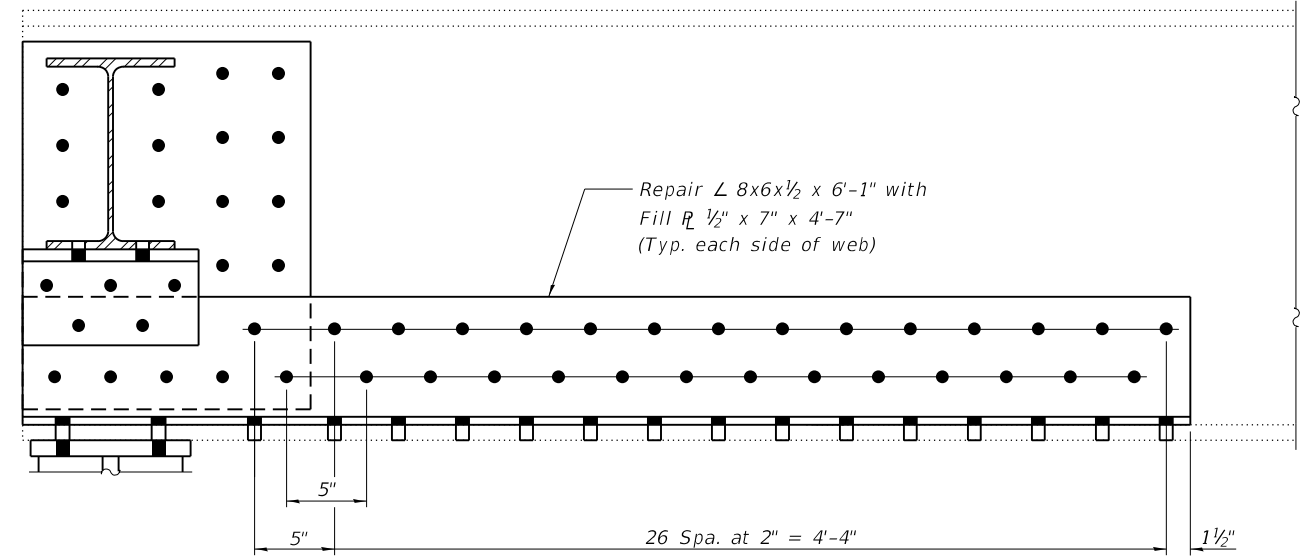
ELEVATION

DIAPHRAGM D ⑤



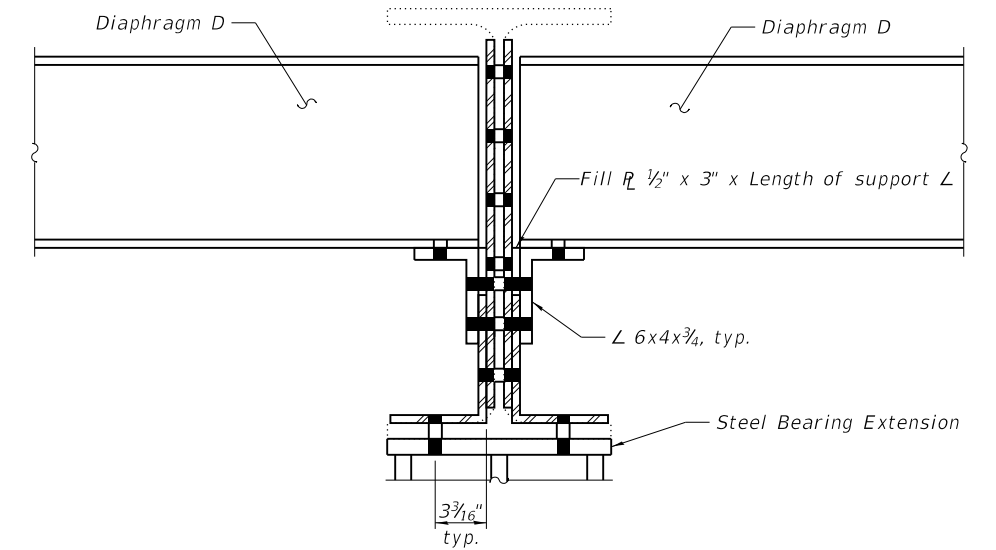
SECTION C-C

BEAM END REPAIRS ⑥



REPAIR B

(For details not shown, see Repair A)



SECTION A-A

BILL OF MATERIAL

Item	Unit	Total
Furnishing and Erecting Structural Steel	Pound	10,210
Structural Steel Removal	Pound	10,160
Structural Steel Repair	Pound	7,870

Notes:

- ① All structural steel shall be AASHTO M 270 Grade 36, unless otherwise noted.
- ② Cost of furnishing and erecting steel diaphragms and diaphragm support angles shall be included with Furnishing and Erecting Structural Steel.
- ③ Cost of furnishing and erecting steel for beam end repairs shall be included with Structural Steel Repair.
- ④ Removal of existing diaphragm support angles, where required, and diaphragms shall be included in Structural Steel Removal.
- ⑤ Diaphragm D details shown for locations without beam end repairs. Details at location with beam end repairs similar, see section A-A.
- ⑥ Omit diaphragm support angle on outside face of beams 1 and 18.
- ⑦ All holes in existing steel shall be field drilled using shop drilled holes in new steel as a template, except as noted.



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PLOT SCALE =	CHECKED - JAD	REVISED -
PLOT DATE = 8/14/2020	DRAWN - MAM	REVISED -
	CHECKED - JAD	REVISED -

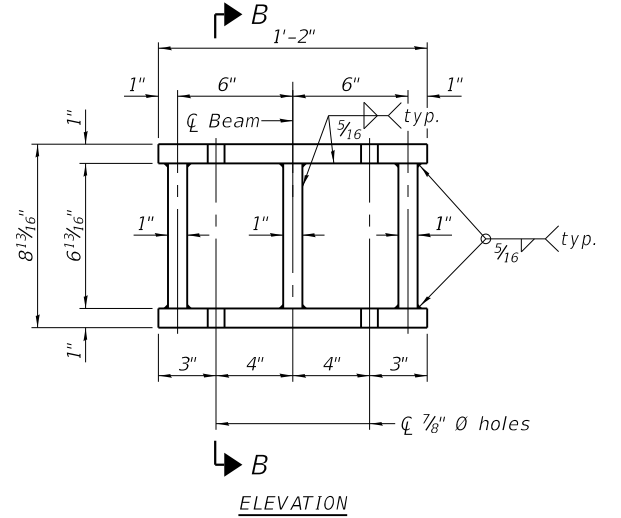
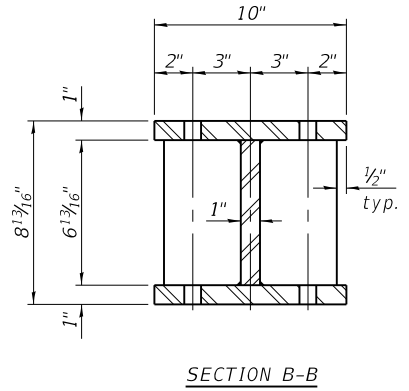
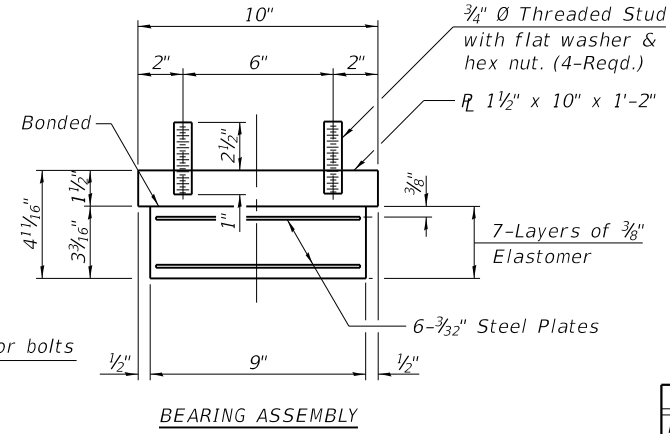
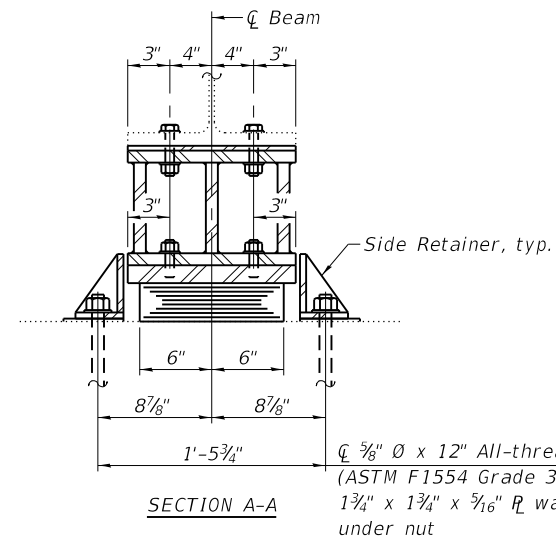
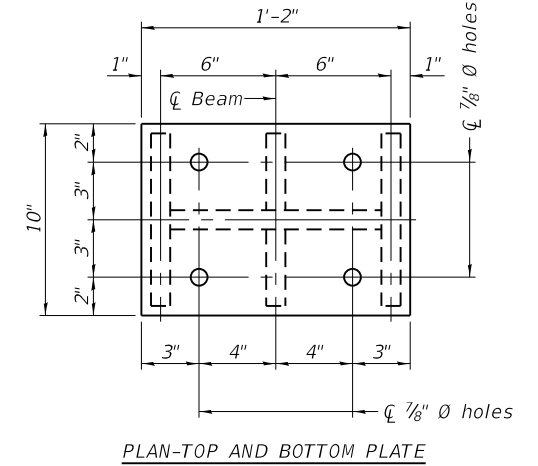
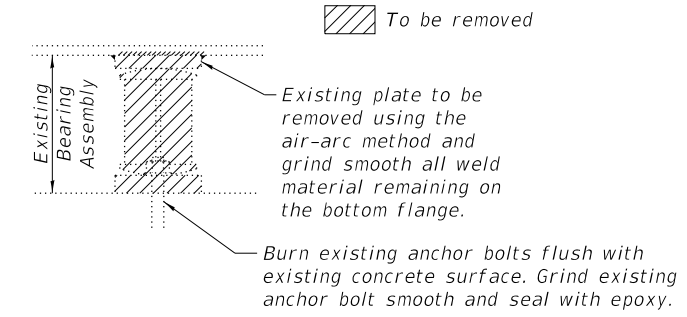
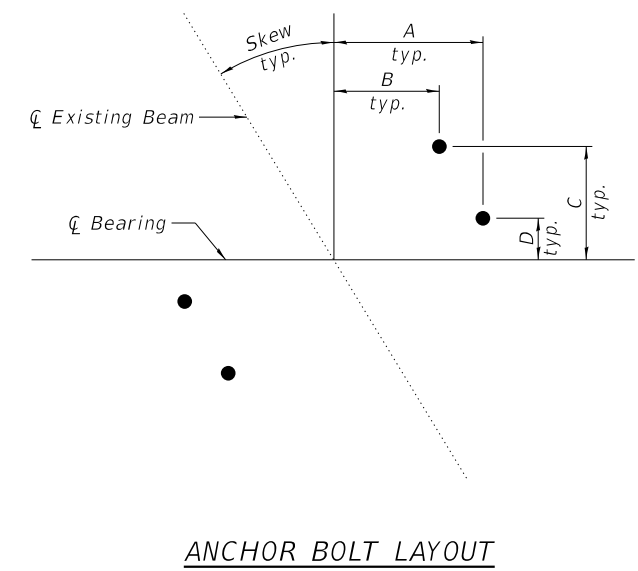
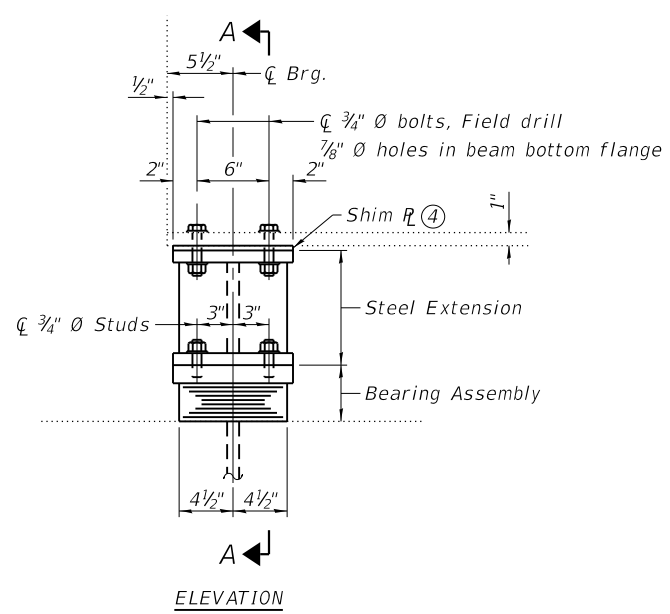
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DIAPHRAGM & BEAM REPAIR DETAILS
STRUCTURE NO. 060-0199

SHEET 14 OF 26 SHEETS

F.A.P. RTE. 785	SECTION 132-2VBR-2	COUNTY MADISON	TOTAL SHEETS 41	SHEET NO. 29
CONTRACT NO. 76N19				
ILLINOIS FED. AID PROJECT				

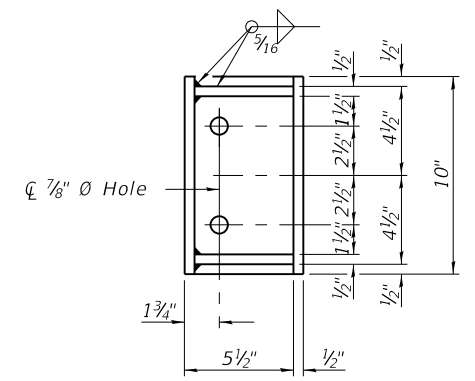
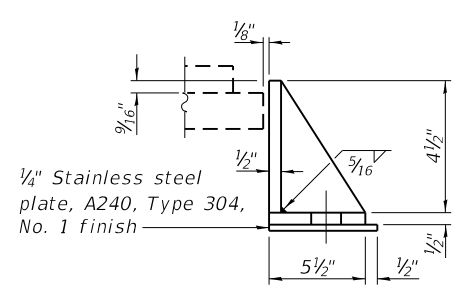
FILE NAME: H:\P\220022 - IDOT D8 PH 1 & 2 VAR - VAR (PTB194-054)WO_1_IL_140 over Abandoned RRVBridge\Microstation\0600199-76N19-015-Bearing Replacement Details at Abutments.dgn



DIMENSION TABLE

	Skew	A	B	C	D
Beam 1	31°18'49"	8 7/8"	6 1/4"	6 3/4"	2 1/2"
Beam 2	30°20'20"	8 7/8"	6 3/8"	6 3/8"	2 3/8"
Beam 3-17	29°20'40"	9"	6 1/2"	6 1/2"	2 1/8"
Beam 18	28°43'52"	9"	6 5/8"	6 1/2"	2 1/8"

LOADING HS20-44
 Allow 25#/sq. ft. for future wearing surface.



SIDE RETAINER
 Equivalent rolled angle with stiffeners will be allowed in lieu of welded plates.

TYPE I ELASTOMERIC EXP. BRG.

INTERIOR BEAM REACTION TABLE

		Abutments
R _l	(k)	33.2
R _r	(k)	39.6
R _i	(k)	10.9
R _{Total}	(k)	83.7

BILL OF MATERIAL

Item	Unit	Total
Furnishing and Erecting Structural Steel	Pound	6,690
Elastomeric Bearing Assembly, Type I	Each	36
Anchor Bolts, 3/8"	Each	144
Jack and Remove Existing Bearings	Each	36

- Notes:**
- Cost included with Jack and Remove Existing Bearings.
 - The structural steel plates of the Bearing Assembly shall conform to the requirements of AASHTO M 270 Grade 50.
 - Two 1/8 in. adjusting shims shall be provided for each bearing in addition to all other plates or shims and placed as shown on the bearing details.
 - Shim plates shall be placed on top of Steel Extension. No more than two shim plates may be used at each bearing.
 - Anchor bolts for side retainers shall be installed in drilled holes according to Article 521.06 of the Standard Specifications.
 - Side retainers, stainless steel plates, and other steel members required for the elastomeric bearing assembly shall be included in the cost of Elastomeric Bearing Assembly, Type I.
 - Cost of Steel Extensions, shim plates, and connection bolts included with Furnishing and Erecting Structural Steel.
 - Prior to ordering any material, the Contractor shall verify in the field all bearing height and shim thickness dimensions.
 - Minimum jack capacity = 23 Tons (includes weight of all steel and concrete).
 - If the analysis submitted to the Contractor for the jacking/temporary support system to be used shows temporary stiffeners are required to prevent web crippling or buckling, the stiffeners shall be steel and bolted to the web. If stiffeners are not required, hardwood timbers shall be installed tightly between the top and bottom flange to prevent flange rotation.

ESTIMATED BEARING SHIM PLATES

	Beam 1	Beam 2	Beam 3	Beam 4	Beam 5	Beam 6	Beam 7	Beam 8	Beam 9	Beam 10	Beam 11	Beam 12	Beam 13	Beam 14	Beam 15	Beam 16	Beam 17	Beam 18
West Abut.	7/8"	1/4"	3/8"	1 1/8"	0"	3/4"	3/8"	1 1/4"	1/4"	1/2"	3/4"	7/8"	3/4"	3/4"	5/8"	3/4"	3/4"	7/8"
East Abut.	1/2"	7/8"	1"	7/8"	3/4"	7/8"	1 1/8"	1 1/4"	1"	3/4"	5/8"	3/8"	3/8"	3/8"	1/2"	1/4"	5/8"	7/8"



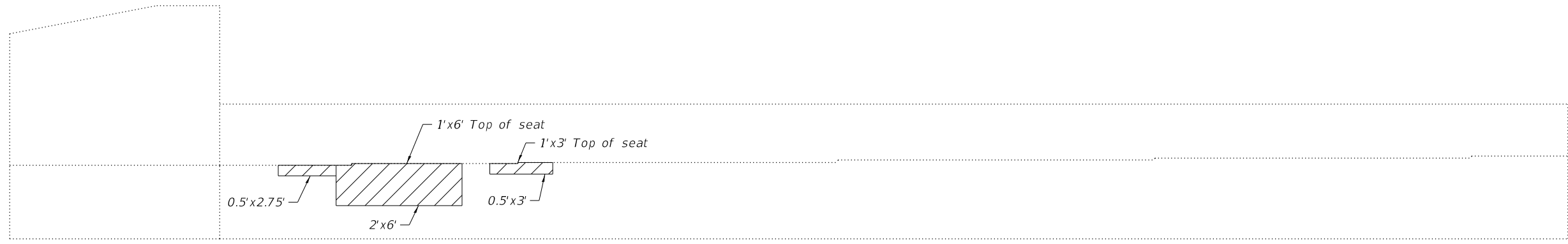
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CHECKED - JAD	REVISIONS -	
PLOT SCALE =	DRAWN - MAM	REVISED -
PLOT DATE = 8/14/2020	CHECKED - JAD	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BEARING REPLACEMENT DETAILS AT ABUTMENTS
STRUCTURE NO. 060-0199

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
785	132-2VBR-2	MADISON	41	30
CONTRACT NO. 76N19				
ILLINOIS FED. AID PROJECT				

FILE NAME: H:\P220022 - IDOT D8 PH. 1 & 2 VAR - VAR (PTB19+054)\WO 1- IL 140 over Abandoned RR\Bridg\Microstation\0600199-76N19-016-Substructure_Repairs.dgn

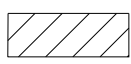


WEST ABUTMENT
(Eastbound Roadway, Looking West)



WEST ABUTMENT
(Westbound Roadway, Looking West)

Notes:
① Repair areas shown are estimated. The Engineer shall determine the repair areas and show actual locations on the as-built plans.

 Structural Repair of Concrete
(Depth Equal to or Less than 5 Inches)



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PLOT SCALE =	DRAWN - MAM	REVISED -
PLOT DATE = 8/14/2020	CHECKED - JAD	REVISED -

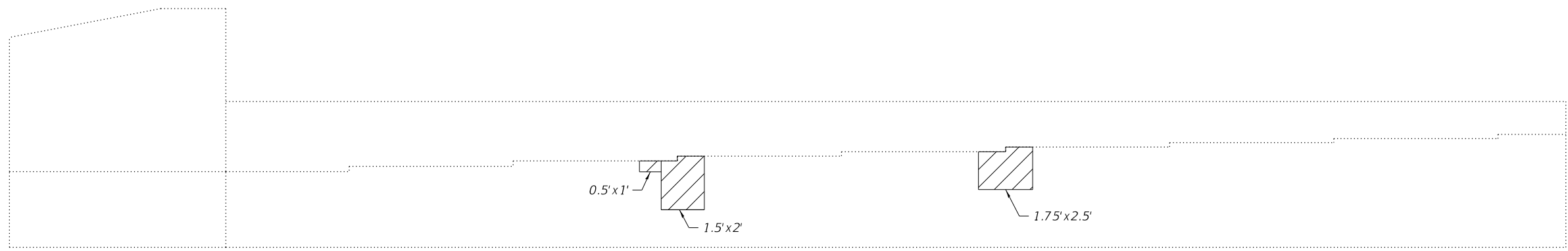
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUBSTRUCTURE REPAIRS
STRUCTURE NO. 060-0199

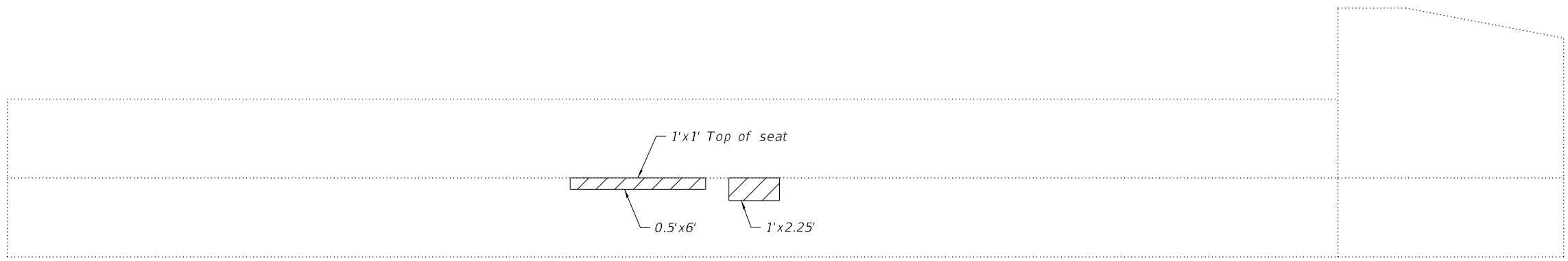
SHEET 16 OF 26 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
785	132-2VBR-2	MADISON	41	31
CONTRACT NO. 76N19				
ILLINOIS		FED. AID PROJECT		

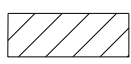
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EAST ABUTMENT
(Westbound Roadway, Looking East)



EAST ABUTMENT
(Eastbound Roadway, Looking East)

 Structural Repair of Concrete
(Depth Equal to or Less than 5 Inches)

Notes:
① Repair areas shown are estimated. The Engineer shall determine the repair areas and show actual locations on the as-built plans.

BILL OF MATERIAL

Item	Unit	Total
Structural Repair of Concrete (Depth Equal to or Less than 5 Inches)	Sq. Ft.	46



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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUBSTRUCTURE REPAIRS
STRUCTURE NO. 060-0199

SHEET 17 OF 26 SHEETS

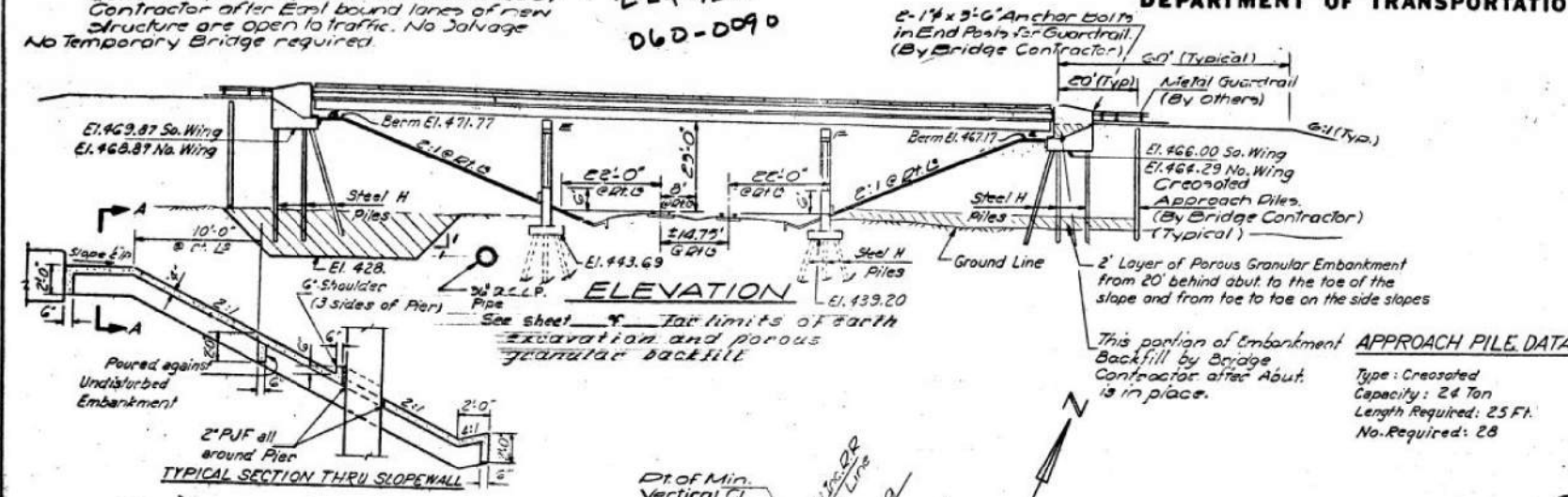
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785	132-2VBR-2	MADISON	41	32
ILLINOIS FED. AID PROJECT			CONTRACT NO. 76N19	

B.M. No. 1 El. 472.23 Chiseled on W. End
 Conc. Ret. Wall 76' Lt. Sta. 86+91
 Existing Structure: Conc. with 3 Bms. on Main Span,
 Conc. Piers, 26' Sp. Width. To be removed by
 Contractor after East bound lanes of new
 structure are open to traffic. No Salvage
 No Temporary Bridge required.

132-VB
 22+93.93
 060-0090

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	SUBJECT	TOTAL SHEETS	SHEET NO.
132-VB	22+93.93	MADISON	40	11
SHEET NO. 1 OF 40 SHEETS				

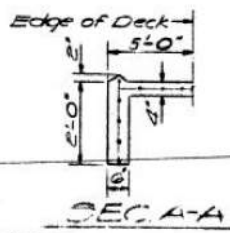
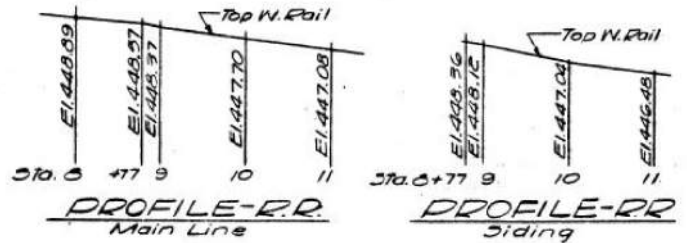
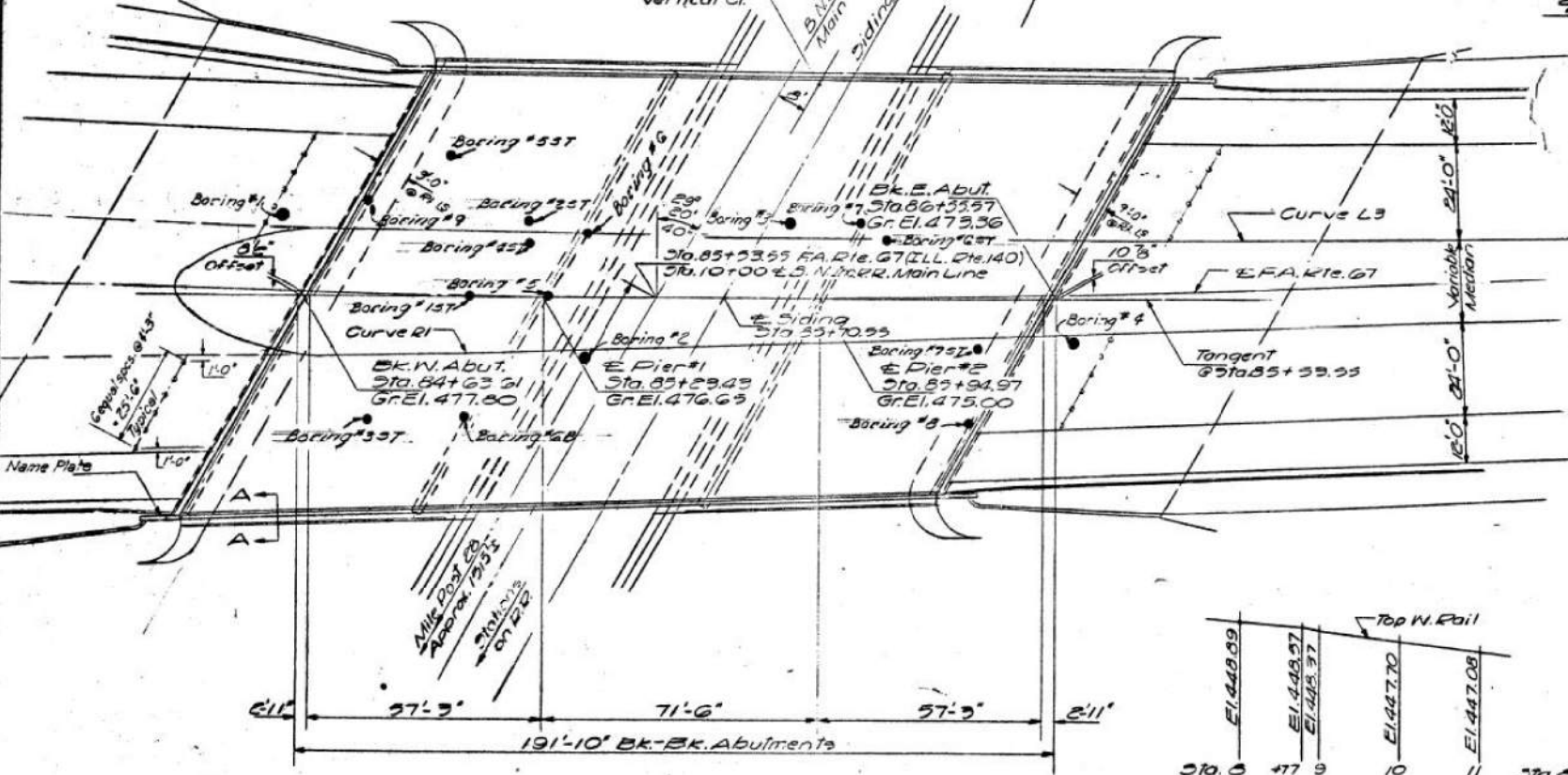


APPROACH PILE DATA
 Type: Creosoted
 Capacity: 24 Ton
 Length Required: 25 Ft.
 No. Required: 28

CURVE DATA
CURVE FAI 67
 PI Sta. 75+42.36
 $\Delta = 24^\circ 30' 16''$ LI
 $D = 1^\circ 00'$
 $T = 1243.99'$
 $L = 2453.78'$
 $E = 5729.53'$
 $E = 153.92'$

CURVE L3
 PI Sta. 9' Lt. RO. ST.
 112.19' From PT.
 $\Delta = 4^\circ 31' 43''$
 $D = 0^\circ 40'$
 $T = 339.80'$
 $L = 679.59'$
 $E = 3594.33'$
 $E = 6.70'$

CURVE R1
 $\Delta = 24^\circ 30' 16''$
 $D = 1^\circ 15'$
 $T = 996.79'$
 $L = 1963.03'$
 $E = 4989.66'$
 $E = 107.07'$



DESIGN STRESSES
 $f_c = 1200$ psi - Deck Slab
 $f_c = 1400$ psi - Curb, Parapet, Sub.
 $f_s = 20,000$ psi - Reinforcement
 $f_s = 20,000$ psi - Structural
 $v_c = 75$ psi - Footings
 $n = 10$

Allow 25 # per sq. ft. for future W.S.

GENERAL NOTES

All reinforcement bars shall be lapped 24 diameters unless otherwise shown.

Fasteners shall be high strength bolts. Bolts 3/8"; open holes 1/2", unless otherwise noted.

Calculated weight of Structural Steel = 614,930 Lbs

The Basic Lead Silica Chromate paint system shall be used for shop and field painting of structural steel.

Field welding of construction accessories will not be permitted to the bottom flange of beams or girders nor to the top flange for a distance equal to one-fourth the span length each way from the pier supports. Field welding in other areas will be permitted only when approved by the Engineer.

Anchor bolts shall be set before bolting diaphragms over supports.

Slope wall shall be reinforced with welded wire fabric 6" x 6" mesh, weighing 58# per 100 sq. ft.

The embankment configuration shown shall be the minimum embankment that must be constructed prior to construction of the abutments and piers.

The concrete rail section above the mandatory construction joint at the top of the slab shall be constructed of Class X Concrete, except the aggregates shall conform to the requirements of Handrail Concrete.

Protective Coat shall not be applied to surfaces to which Waterproofing Membrane System is to be applied.

The Contractor shall drive 2 steel (HP 8 x 36) test piles in a permanent location, one at the West Abutment and one at Pier 2 as directed by the Engineer before ordering the remainder of Piles.

Steel piles at Abutments shall be driven in holes prepared through the embankment in accordance with Article 513.09(c) of the Standard Specifications.

The main load carrying member components subject to the Supplemental Requirements for Notch Toughness are the flanges, webs, splice plates and cover plates of the steel girders or wide flange beams.

TOTAL BILL OF MATERIAL

Item	Unit	Super	Sub.	Total
Bituminous Concrete Surface Course, Class 2	Tons	140		140
Waterproofing Membrane System	Sq. Yds.	1662		1662
Structure Excavation	Cu. Yds.		554	554
Protective Coat	Sq. Yds.	745		745
Class X Concrete	Cu. Yds.	690.3	773.2	1,463.5
Structural Steel	Lump sum	1		1
Stud Shear Connectors	Each	7,668		7,668
Aluminum Railing	Lin. Ft.	379		379
Reinforcement Bars	Lbs.	174,260	63,950	248,210
Creosoted Piles 20.1 Ft. to 38 Ft.	Lin. Ft.		700	700
Steel Piles (HP 8 x 36)	Lin. Ft.		6,676	6,676
Test Piles Steel (HP 8 x 36)	Each		2	2
Name Plates	Each	1		1
Slope Wall (4')	Sq. Yds.		1,900	1,900
Preformed Joint Sealer	Lin. Ft.	124		124
Preformed Joint Sealer	Lin. Ft.	138		138
Porous Granular Embankment	Cu. Yds.	3140		3140
Sheet Piling	Sq. Ft.	4550		4550
Earth Excavation	Cu. Yds.	1386		1386

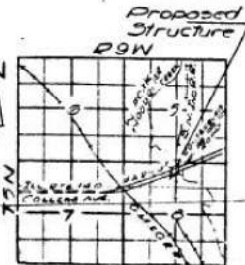
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DESIGNED: [Signature]
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 CHECKED: [Signature]

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

JUNE 5 1972

STATION 85+53.55
 BUILT 19 BY
 STATE OF ILLINOIS
 F.A. RTE. G7 SEC. 132-24B
 LOADING HS 20
NAME PLATE
 (See Sec 2113)



8-99

GENERAL PLAN & ELEVATION
 OVER B.N. & C. RAILROAD
 F.A. ROUTE G7 (ILL. RTE. 140)
 SECTION 132-VB
 MADISON COUNTY
 STATION 85+53.55

FILE NAME: H:\P220022 - IDOT D8 PH 1 & 2 - VAR - VAR (PTB194-054)W0 1 - IL 140 over Abandoned RR(Bridge)Microstation(0600199-76N19-018-Existing Bridge Plans.dgn



USER NAME =	DESIGNED -	REVISED -
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PLOT DATE = 8/14/2020	DRAWN -	REVISED -
	CHECKED -	REVISED -

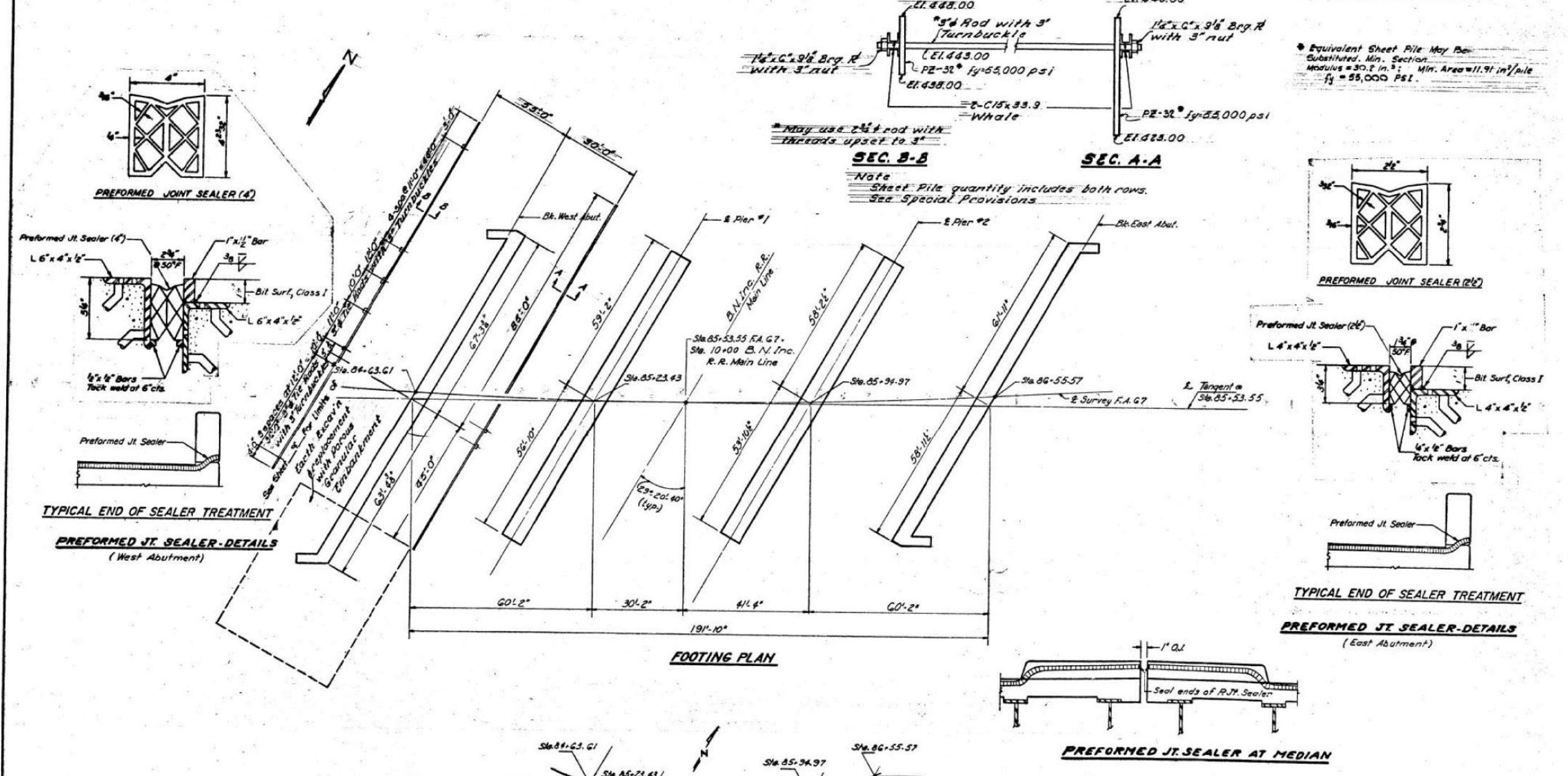
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

EXISTING BRIDGE PLANS
 STRUCTURE NO. 060-0199
 SHEET 18 OF 26 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
785	132-2VBR-2	MADISON	41	33
CONTRACT NO. 76N19				
ILLINOIS FED. AID PROJECT				

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

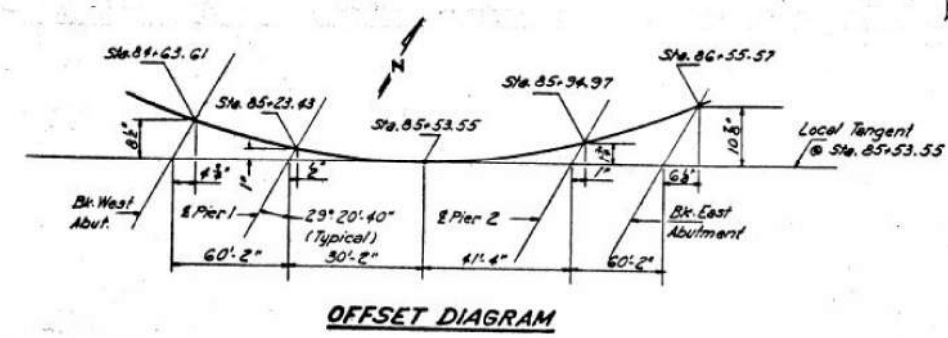
DATE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6/7	132-2VB	MADISON	40	12
SHEET NO. 2		15 SHEETS		



* Equivalent Sheet Pile May Be Substituted. Min. Section Modulus = 30.2 in.³; Min. Area = 11.91 in²/pile; $f_y = 55,000$ PSI.

SEC. B-B
SEC. A-A
Note
Sheet Pile quantity includes both rows.
See Special Provisions

DESIGNED	James M. Barker	EXAMINED	June 5 1977
CHECKED	James M. Barker	PASSED	
DRAWN	Simon V. Stankovic	APPROVED	
CHECKED	B		



OFFSET DIAGRAM & FOOTING LAYOUT
F.A. RTE. G7 SEC. 132-2VB
MADISON COUNTY
STA. 85+53.55

FOR INFORMATION ONLY



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PLOT SCALE =	CHECKED -	REVISED -
PLOT DATE = 8/14/2020	DRAWN -	REVISED -
	CHECKED -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING BRIDGE PLANS
STRUCTURE NO. 060-0199
SHEET 19 OF 26 SHEETS

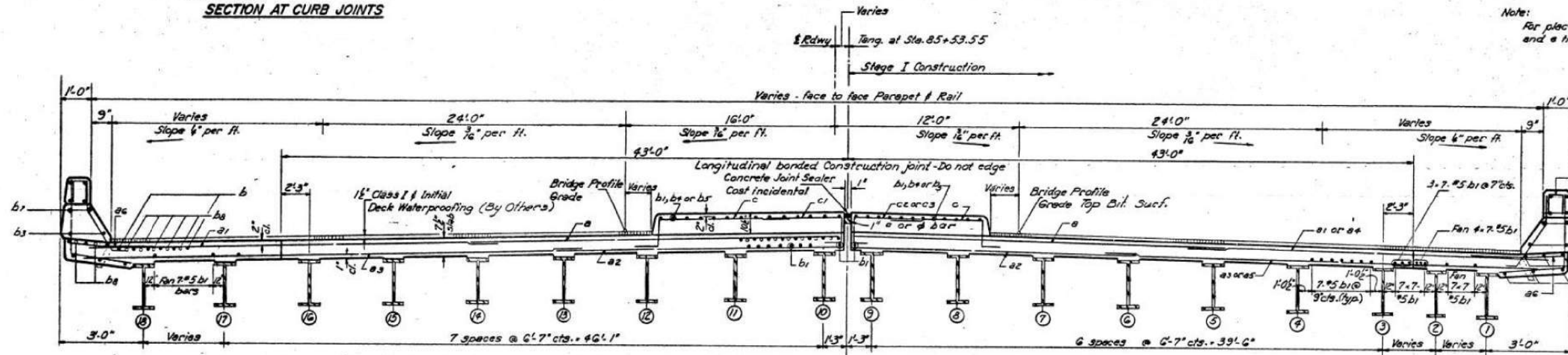
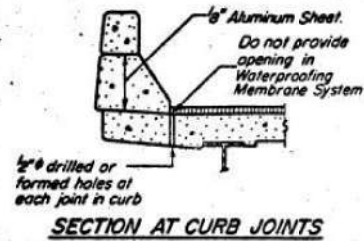
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785	132-2VB-2	MADISON	41	34
CONTRACT NO. 76N19				

FILE NAME: H:\P220022 - IDOT D8 PH 1 & 2 VAR - VAR (PTB19+054)W0 1- IL 140 over Abandoned RR\Bridges\Microstation\0600199-76N19-019-Existing Bridge Plans.dgn

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DATE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6/7	132-2VBR-2	MADISON	40	15
FED. ROAD DIST. NO. 7		ALIGNED	FOR AID PROJECT	

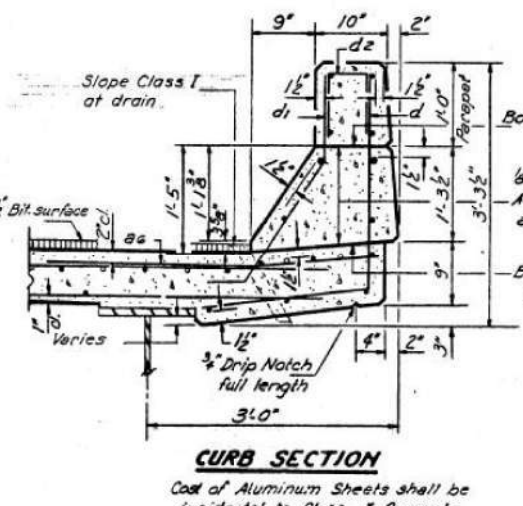
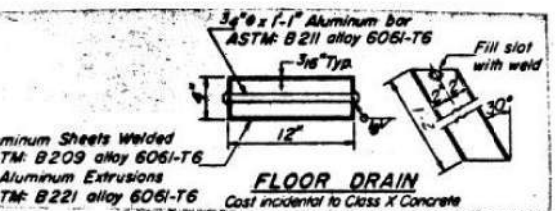
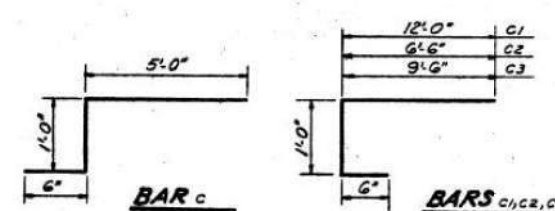
SHEET NO. 5
15 SHEETS



Note:
For placement of bars dz
and e thru ee, see sheet No. 6

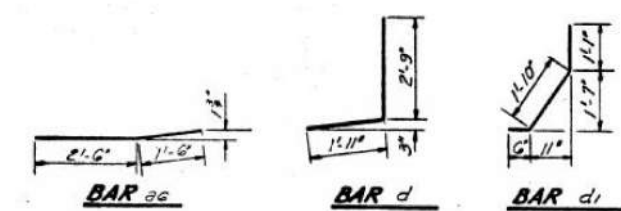
BILL OF MATERIAL

Bar No.	Size	Length	Shape
a	538 #6	29'-0"	—
a1	#23 #6	30'-0"	—
a2	538 #6	22'-6"	—
a3	#23 #6	36'-6"	—
a4	115 #6	27'-6"	—
a5	115 #6	33'-6"	—
a6	264 #6	4'-0"	—
b	708 #5	33'-0"	—
b1	890 #5	28'-6"	—
b2	16 #5	25'-6"	—
b3	64 #5	9'-3"	—
b4	56 #5	27'-6"	—
b5	60 #8	26'-0"	—
b6	8 #8	28'-0"	—
b7	16 #8	9'-3"	—
b8	230 #6	23'-0"	—
c	376 #5	6'-6"	J
c1	188 #5	13'-6"	L
c2	94 #5	8'-0"	L
c3	94 #5	11'-0"	L
d	381 #5	4'-8"	J
d1	379 #5	3'-5"	J
Reinforcement Bars Lbs. 173,150			
Class X Concrete Cu.Yds. 278.0			



DESIGNED: James A. Hamilton
CHECKED: James M. Baskin
DRAWN: Simon Vokunovic
CHECKED: B

EXAMINED: June 5, 2022
PASSED: [Signature]
APPROVED: [Signature]
DIRECTOR OF HIGHWAYS



SUPERSTRUCTURE
FA. RT. 67 SEC. 132-2VB
MADISON COUNTY
STA. 85+53.55

FOR INFORMATION ONLY



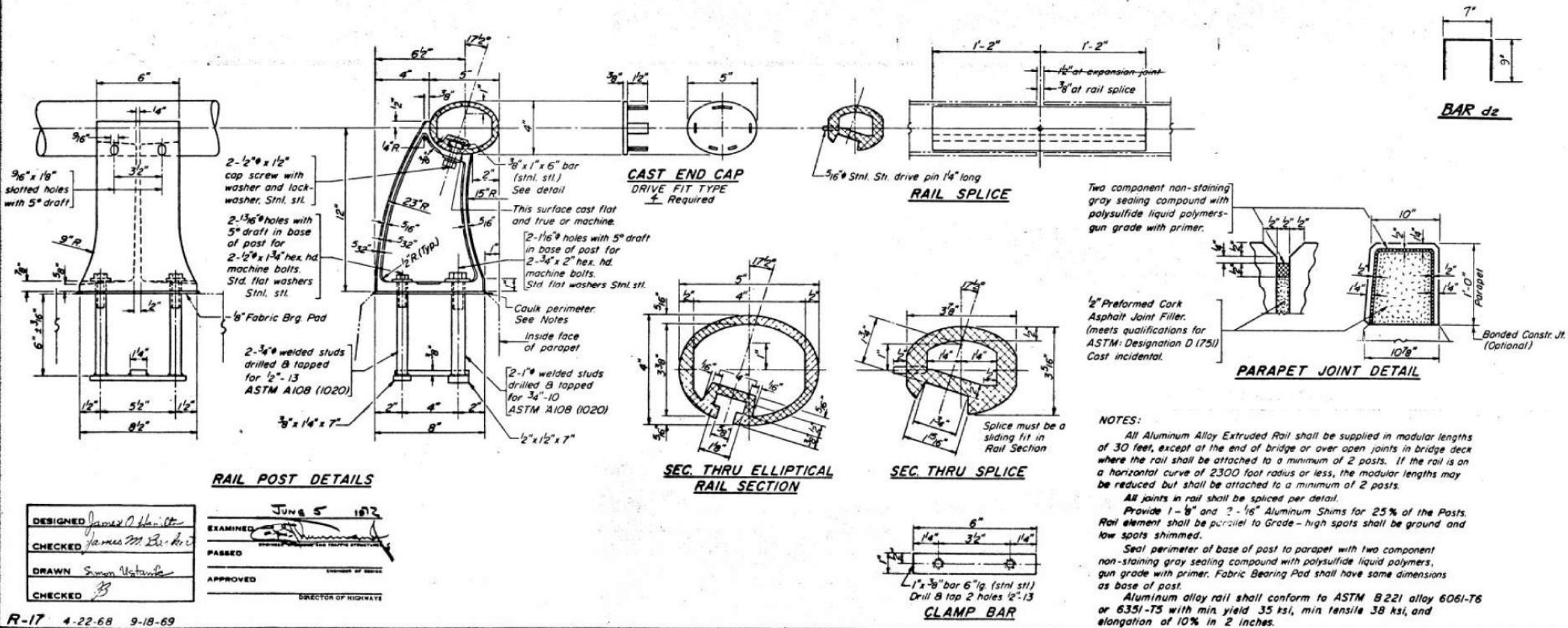
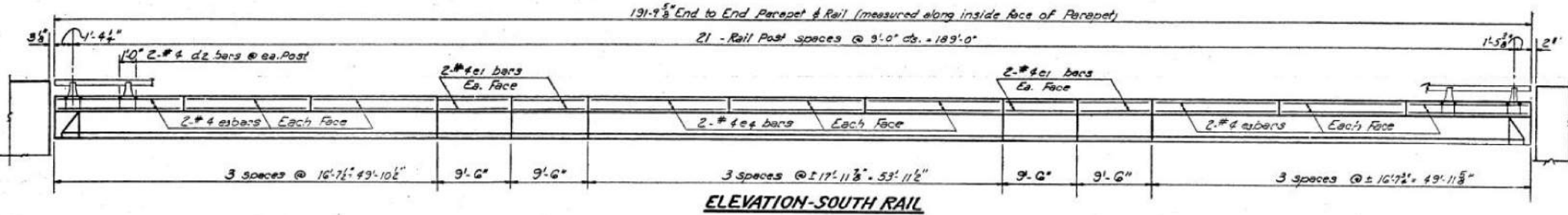
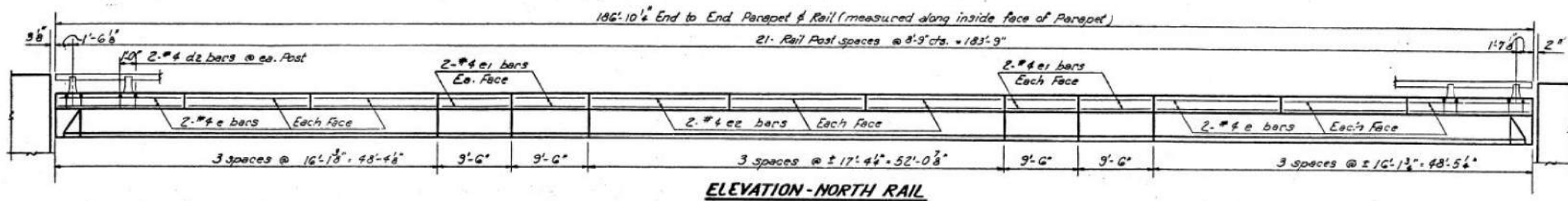
USER NAME =	DESIGNED -	REVISED -
PLOT SCALE =	CHECKED -	REVISED -
PLOT DATE = 8/14/2020	DRAWN -	REVISED -
	CHECKED -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING BRIDGE PLANS
STRUCTURE NO. 060-0199
SHEET 21 OF 26 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
785	132-2VBR-2	MADISON	41	36
CONTRACT NO. 76N19				
ILLINOIS FED. AID PROJECT				

FILE NAME: H:\P220022 - IDOT D8 PH. 1 & 2 - VAR - (PTB194-054)\WO 1 - IL 140 over Abandoned RR\Bridges\Microstation\0600199-76N19-021-Existing Bridge Plans.dgn

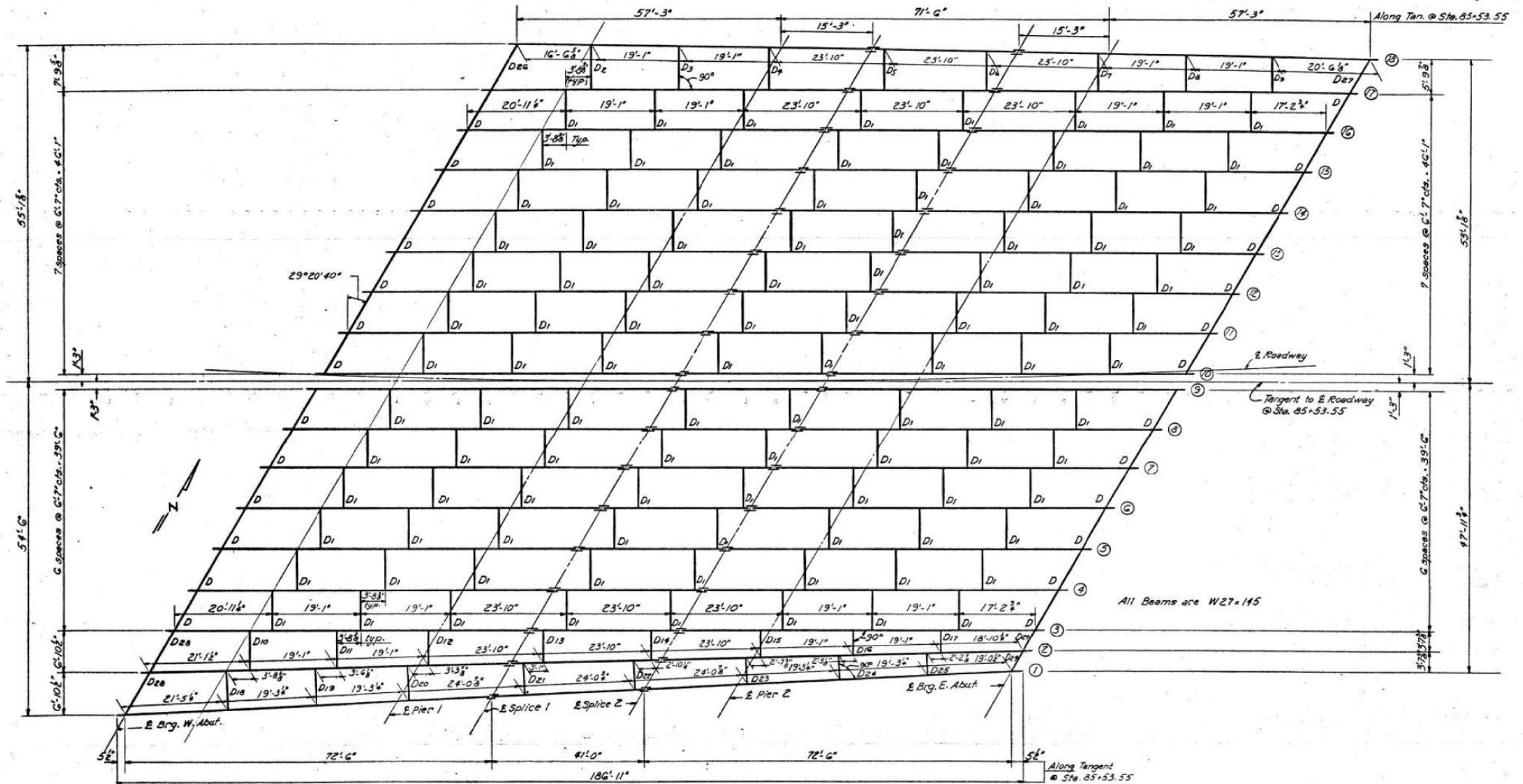


R-17 4-22-68 9-18-69

FOR INFORMATION ONLY

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DATE	REVISION	QUANTITY	TOTAL SHEETS	SHEET NO.
6/7	SEC 218	MADISON	40	17
SHEET NO. 7 15 SHEETS				



PLAN

Note:
See Steel Details
on Sheet No. 8

DESIGNED	James O. Hamilton	EXAMINED	June 5 1972
CHECKED	James M. Barber	PASSED	
DRAWN	Simon Utomsky	APPROVED	
CHECKED	B	DIRECTOR OF HIGHWAYS	

STRUCTURAL STEEL
F.A.R.T.E. 67 SEC.132-2VB
MADISON COUNTY
STA. 85+53.55

FOR INFORMATION ONLY

FILE NAME: H:\P220022 - IDOT D8 PH. 1 & 2 - VAR - VAR (PTB194+054)\WO 1 - IL 140 over Abandoned RR\Bridges\Microstation\0600199-76N19-023-Existing Bridge Plans.dgn



USER NAME =	DESIGNED -	REVISOR -
PLOT SCALE =	CHECKED -	REVISION -
PLOT DATE = 8/14/2020	DRAWN -	REVISION -
	CHECKED -	REVISION -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING BRIDGE PLANS
STRUCTURE NO. 060-0199

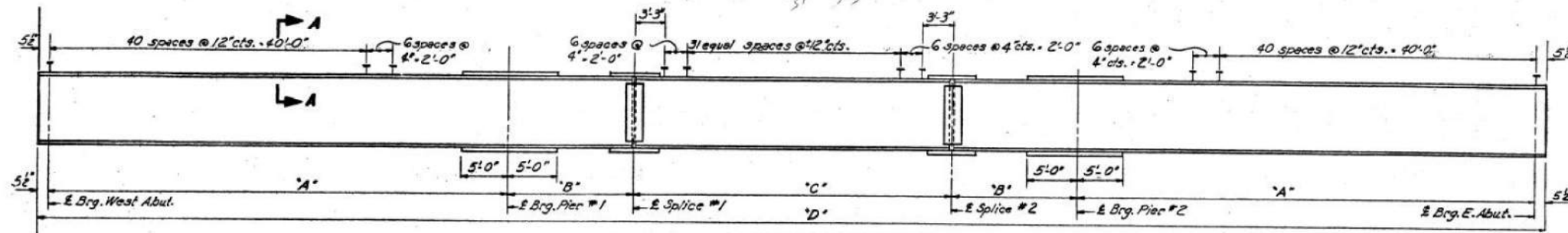
SHEET 23 OF 26 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
785	132-2VBR-2	MADISON	41	38
CONTRACT NO. 76N19				

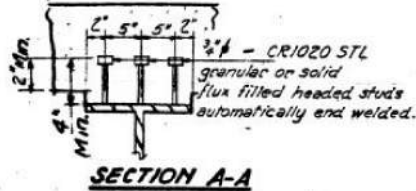
ILLINOIS FED. AID PROJECT

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DATE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
11-67	132-2VB	MADISON	40	18
SHEET NO. 8				
15 SHEETS				



BEAM ELEVATION



SECTION A-A

BEAM LENGTHS
(Measured along E Beams)

	Bm. #1	Bm. #2	Bm. #3 thru #7	Bm. #18
A	58'-4 1/2"	57'-9 3/4"	57'-3"	56'-10 3/8"
B	15'-6 1/4"	15'-4 1/2"	15'-3"	15'-2"
C	41'-10"	41'-5"	41'-0"	40'-9"
D	190'-8 1/4"	188'-9 3/4"	186'-11"	185'-9 3/8"

TABLE OF 1/4" DIMENSIONS

	Bm. #1	Bm. #2	Bm. #3	Bm. #4	Bm. #5	Bm. #6	Bm. #7	Bm. #18
W. Abut.	-	-	8"	8"	8"	8"	8"	8"
Pier #1	-	8"	8"	8"	8"	8"	8"	8"
Pier #2	-	8"	8"	8"	8"	8"	8"	8"
E. Abut.	-	-	-	-	-	-	-	-

Interior Beam-Moment Table

	.4 Span 1	Pier #1	.5 Span 2
Initial Dead Load	172.1 K	357.3 K	154.6 K
Composite Dead Load	124.3 K	187.8 K	136.2 K
Live Load	378.5 K	262.6 K	412.0 K
Impact	99.9 K	69.3 K	108.8 K
Total	774.8 K	877.0 K	811.6 K

Interior Beam-Reaction Table

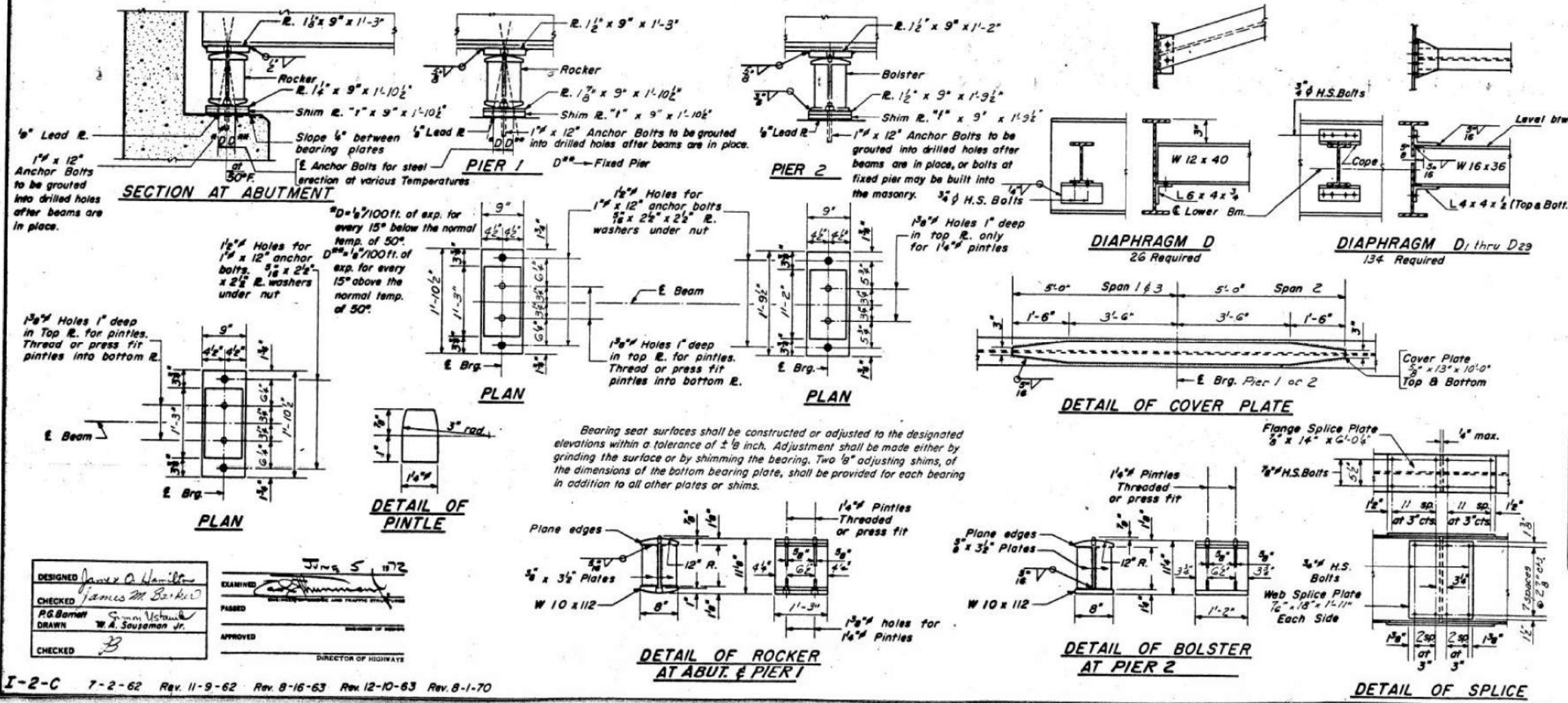
	Abut.	Pier #1
Initial Dead Load	16.7 K	57.8 K
Composite Dead Load	11.2 K	35.9 K
Live Load	34.8 K	44.1 K
Impact	9.2 K	11.6 K
Total	71.9 K	149.4 K

Beam Properties

Steel Section	Composite Sec.
.4 Span 1 or .5 Span 2	.4 Span 1 or .5 Span 2
I	5430 in ⁴ / 8190 in ⁴ / 13,030 in ⁴
S _t	404 in ³ / 604 in ³ / 3776 in ³
S _b	404 in ³ / 604 in ³ / 556 in ³

I = Moment of Inertia.
S_t = Section Modulus to top of Steel
S_b = Section Modulus to bottom of Steel

Note: Beams are symmetrical about E Span 2



ELEVATION TOP OF W

	E. Brg. W. Abut.	E. Brg. Pier #1	E. Field Splice #1	E. Field Splice #2	E. Brg. Pier #2	E. Brg. E. Abut.
Bm. #1	476.75	475.69	475.41	474.55	474.20	472.88
Bm. #2	476.83	475.75	475.46	474.59	474.23	472.88
Bm. #3	476.88	475.80	475.57	474.63	474.28	472.88
Bm. #4	476.95	475.85	475.56	474.67	474.29	472.88
Bm. #5	476.99	475.88	475.59	474.69	474.31	472.88
Bm. #6	477.04	475.91	475.61	474.70	474.32	472.88
Bm. #7	477.08	475.94	475.64	474.72	474.33	472.88
Bm. #8	477.13	475.97	475.66	474.73	474.34	472.88
Bm. #9	477.17	476.00	475.69	474.74	474.35	472.88
Bm. #10	477.17	475.98	475.66	474.72	474.33	472.88
Bm. #11	477.03	475.83	475.51	474.55	474.16	472.68
Bm. #12	476.89	475.67	475.35	474.38	473.98	472.49
Bm. #13	476.73	475.50	475.17	474.19	473.79	472.29
Bm. #14	476.56	475.31	474.98	473.99	473.59	472.07
Bm. #15	476.39	475.13	474.79	473.79	473.39	471.86
Bm. #16	476.21	474.94	474.60	473.59	473.18	471.64
Bm. #17	476.00	474.71	474.37	473.36	472.95	471.39
Bm. #18	475.77	474.48	474.14	473.13	472.72	471.17

For Fabrication Only.

STEEL DETAILS
F.A.R.T.E. 67 SEC. 132-2VB
MADISON COUNTY
STA. 85+53.55

DESIGNED: James A. Hamilton
CHECKED: James M. Barko
PG Barnett
DRAWN: Simon Vostanik
W. A. Sausman Jr.
CHECKED: B

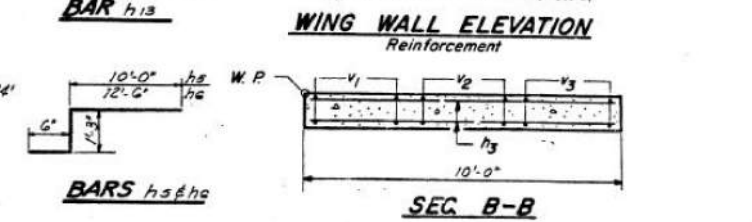
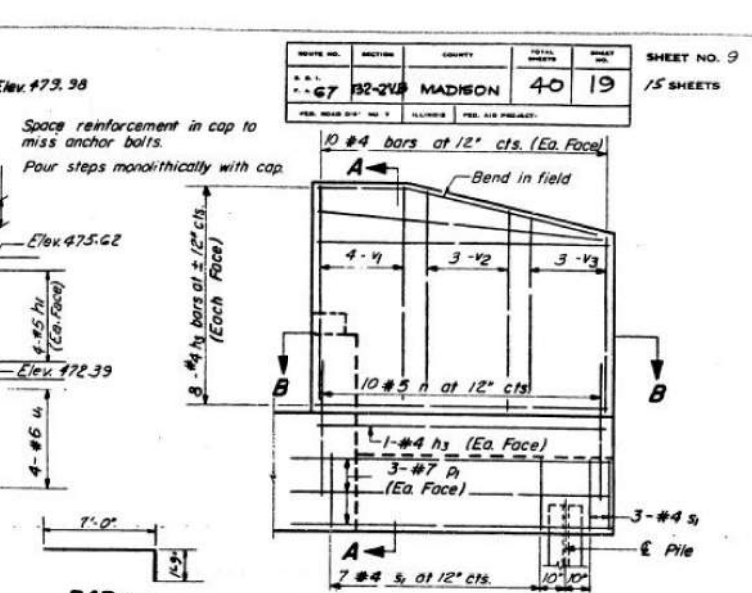
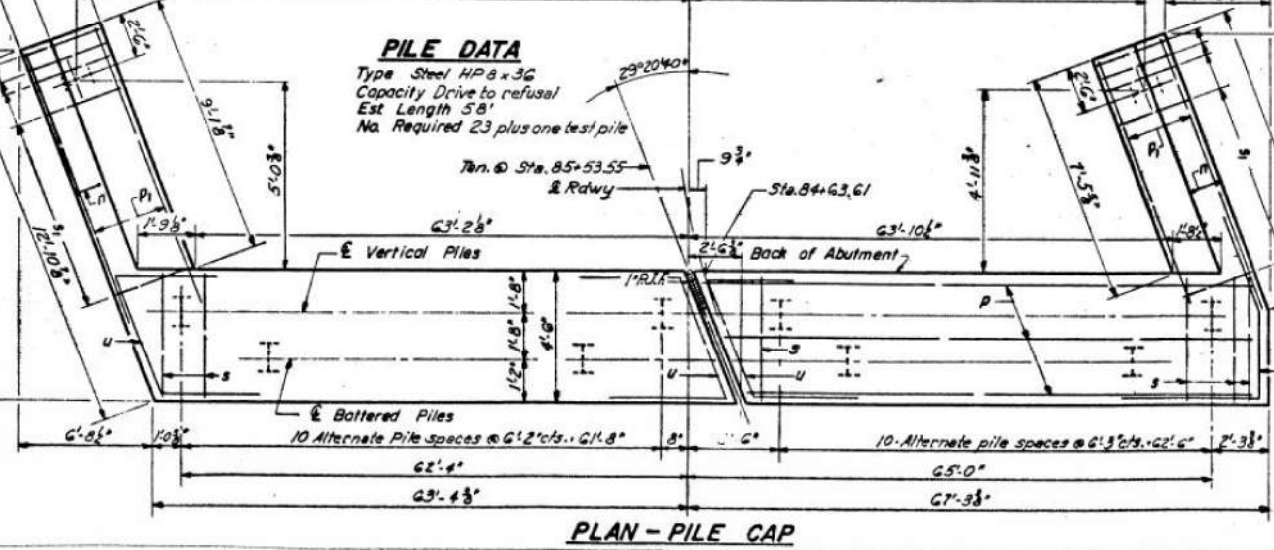
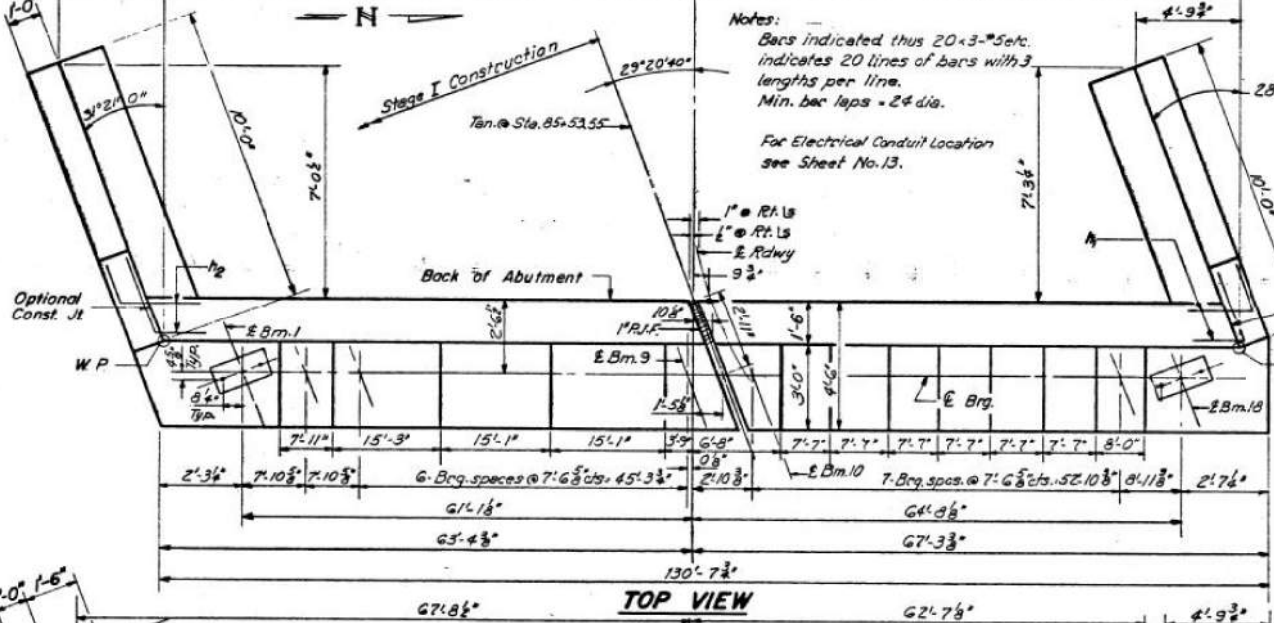
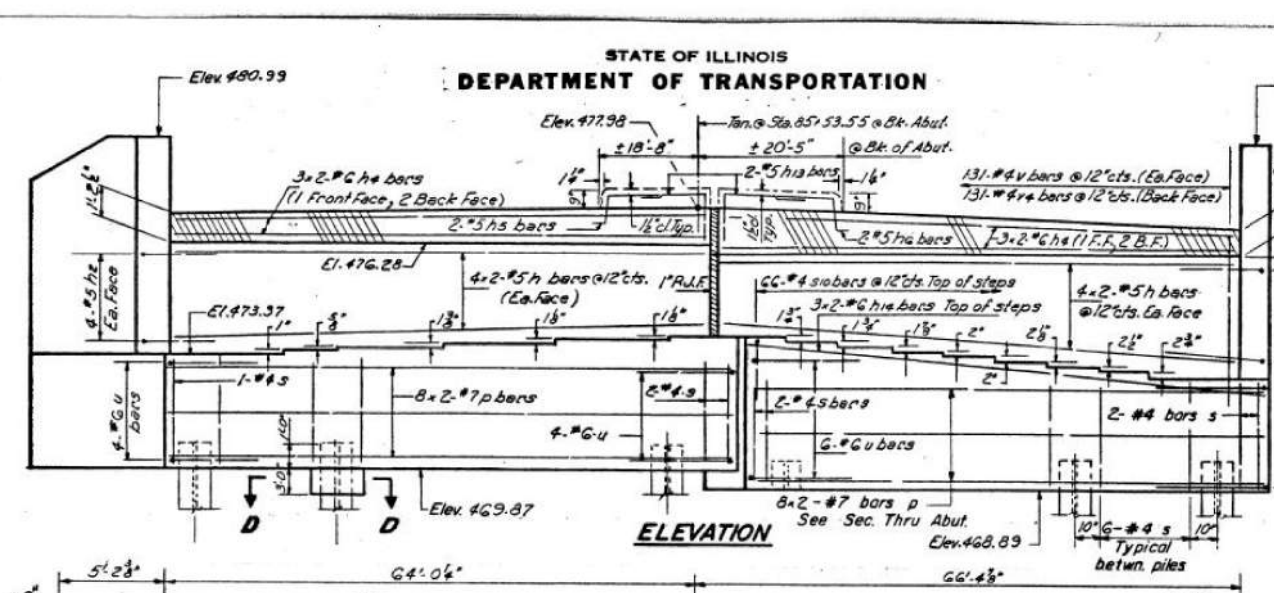
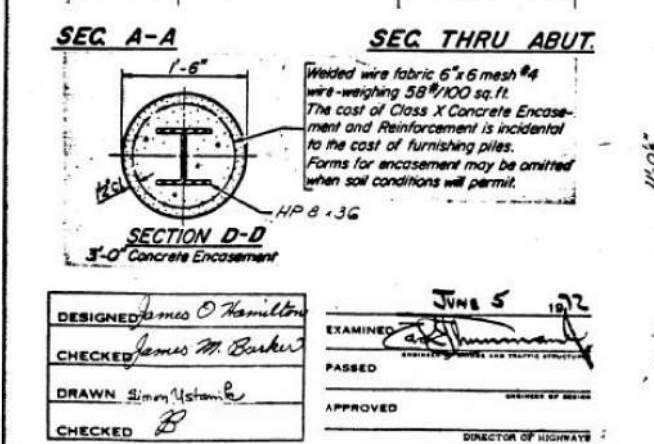
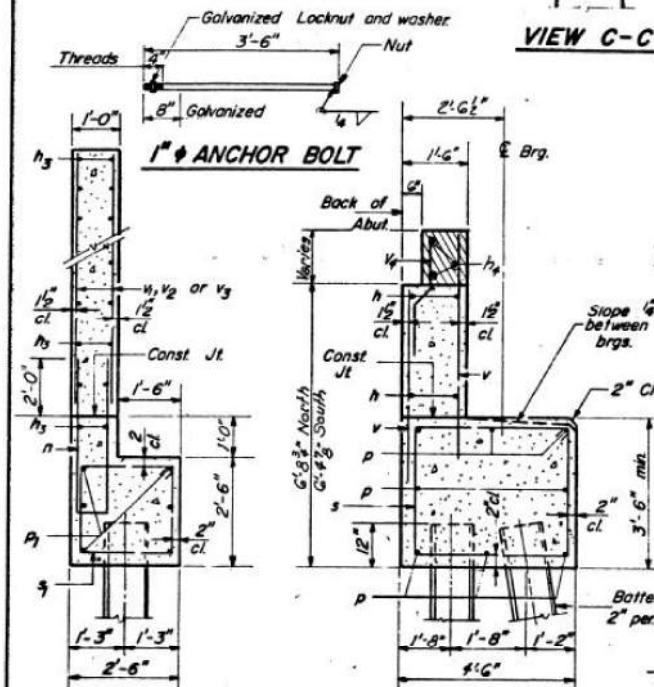
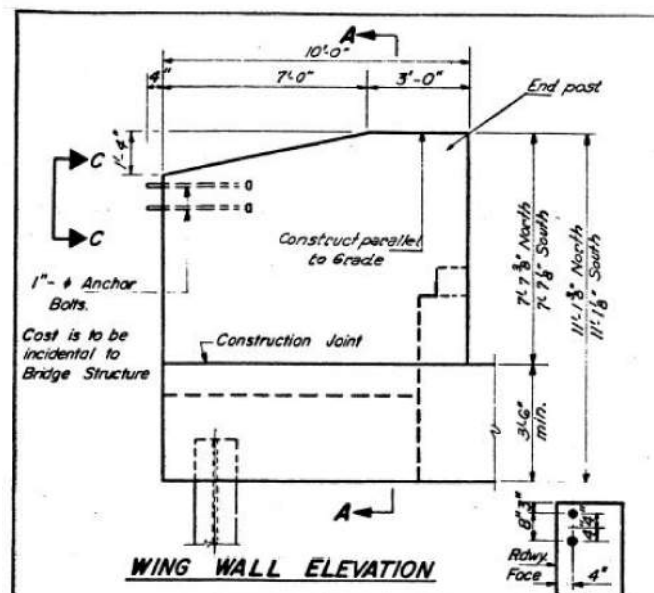
EXAMINED: JMS 5/17/72
PASSED
APPROVED
DIRECTOR OF HIGHWAY

I-2-C 7-2-62 Rev. 11-9-62 Rev. 8-16-63 Rev. 12-10-63 Rev. 8-1-70

FOR INFORMATION ONLY

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
67	B2-2VB	MADISON	40	19
1/5 SHEETS				



WEST ABUTMENT BILL OF MATERIAL

Bar	No	Size	Length	Shape
n	32	#5	11'-2"	U
h1	8	#5	5'-6"	J
h2	8	#5	5'-6"	J
h3	36	#4	9'-9"	J
h4	12	#6	33'-9"	J
h5	2	#5	11'-9"	J
h6	2	#5	14'-3"	J
h13	4	#5	8'-9"	J
h14	6	#6	33'-3"	J
n	20	#5	9'-3"	U
p	32	#7	34'-6"	J
q	12	#7	9'-9"	J
s	127	#4	15'-6"	J
s1	20	#4	9'-6"	J
s10	66	#4	8'-0"	J
u	14	#6	12'-10"	J
u1	4	#6	11'-3"	J
u	262	#4	5'-6"	J
v1	16	#4	7'-3"	J
v2	12	#4	6'-9"	J
v3	12	#4	6'-3"	J
v4	131	#4	4'-6"	J

Class X Concrete Cu. Yds. 115.6
Reinforcement Bars Lbs. 8,800
Steel Piles (HP 8 x 36) Lin. Ft. 1,334
Test Piles (HP 8 x 36) Ea. 1

WEST ABUTMENT E.A.T. 67-SEC. 132-2VB MADISON COUNTY STA. 85+53.55

A-9-L (15°-34°) 2-1-66, 8-1-70

DESIGNED: James O. Hamilton
CHECKED: James M. Barker
DRAWN: Jimmy Yost
CHECKED: B

EXAMINED: JUNE 5 1972
PASSED: [Signature]
APPROVED: [Signature]
DIRECTOR OF HIGHWAYS

FOR INFORMATION ONLY

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING BRIDGE PLANS
STRUCTURE NO. 060-0199
SHEET 25 OF 26 SHEETS

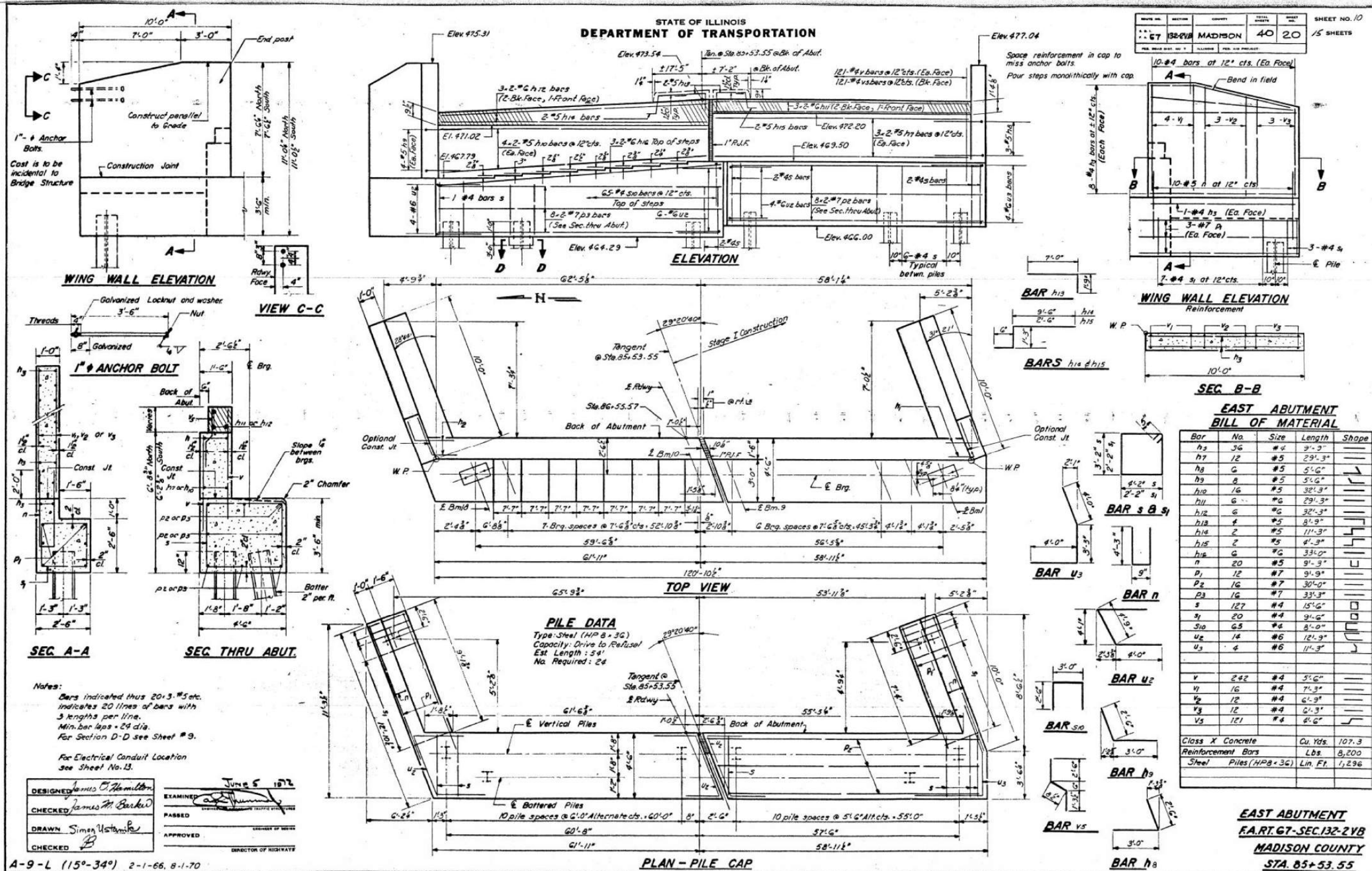
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
785	132-2VB-2	MADISON	41	40
CONTRACT NO. 76N19				

FILE NAME: H:\P220022 - IDOT D8 PH 1 & 2 VAR - VAR (PTB194-054)\WO 1 - IL 140 over Abandoned RR\Bridge\Microstation\0600199-76N19-025-Existing Bridge Plans.dgn



STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
67	132-2VB	MADISON	40	20
SHEET NO. 10				
15 SHEETS				



Notes:
Bars indicated thus 20x3-#5 etc.
indicates 20 lines of bars with
3 lengths per line.
Min. bar laps = 24 dia.
For Section D-D see Sheet # 9.

For Electrical Conduit Location
see Sheet No. 13.

DESIGNED: James O. Hamilton
CHECKED: James M. Barber
DRAWN: Simon V. Stankovic
CHECKED: B

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

JUNE 5 1972

DIRECTOR OF HIGHWAYS

A-9-L (15°-34°) 2-1-66, 8-1-70

FOR INFORMATION ONLY



USER NAME =	DESIGNED -	REVISION -
PLOT SCALE =	CHECKED -	REVISION -
PLOT DATE = 8/14/2020	DRAWN -	REVISION -
	CHECKED -	REVISION -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING BRIDGE PLANS
STRUCTURE NO. 060-0199

SHEET 26 OF 26 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
785	132-2VB-2	MADISON	41	41
CONTRACT NO. 76N19				
ILLINOIS FED. AID PROJECT				