01-15-2021 LETTING ITEM 132

FAI RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
24	64(1,2,2-1,3-1,3)RS-2	MASSAC	263	1
	ILLINOIS	CONTRACT NO. 78606		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED
HIGHWAY PLANS

FAI 24 (I–24)
SECTION 64(1,2,2–1,3–1,3)RS–2, BRIDGE REPAIR 2021–1
PROJECT NHPP–YA23(869)
RESURFACING
MASSAC COUNTY

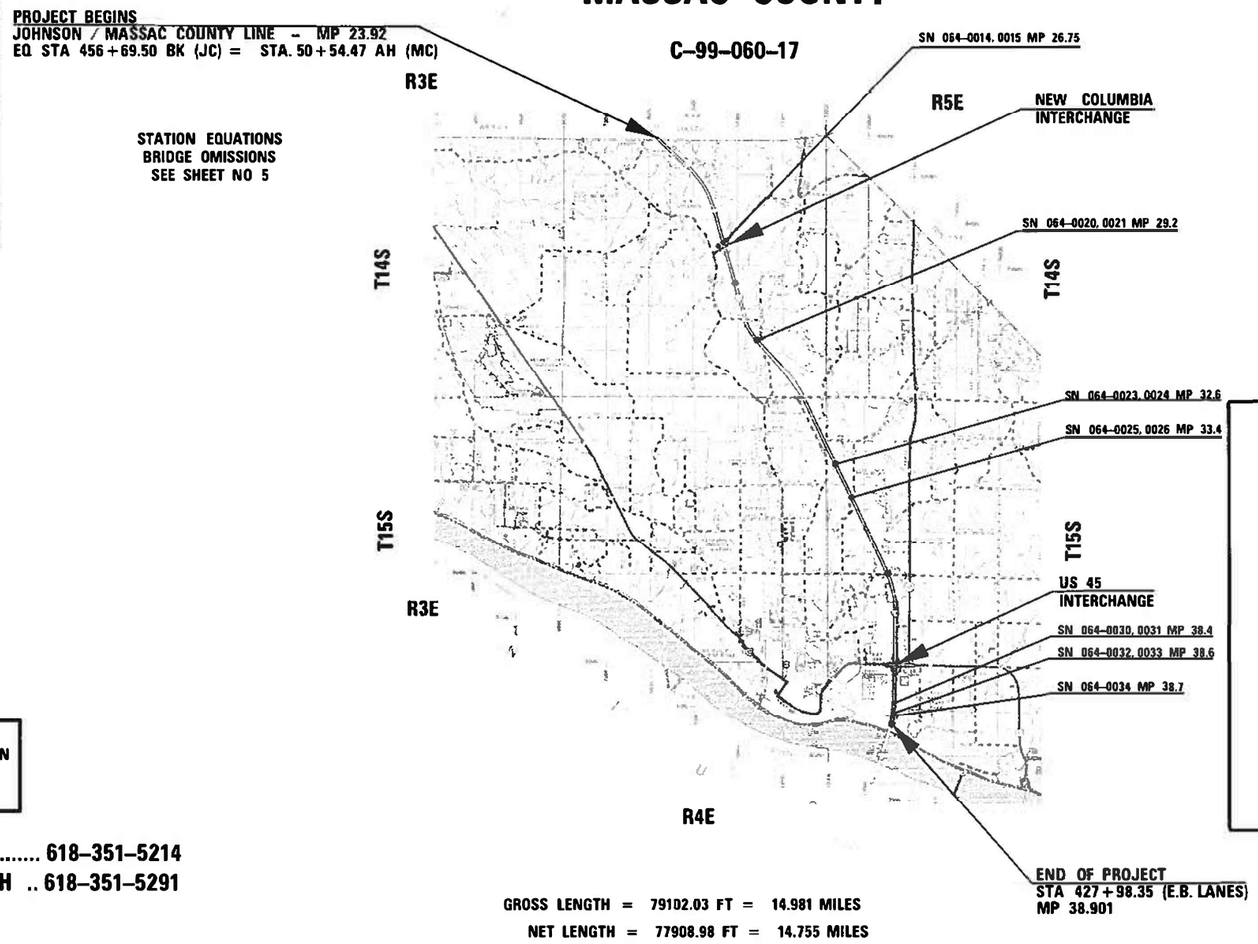
FOR INDEX OF SHEETS, SEE SHEET NO 3

FOR SUMMARY OF QUANTITIES, SEE SHEET NO 8–12

FOR STRUCTURAL PAVEMENT DESIGN INFORMATION, SEE SHEET NO NA

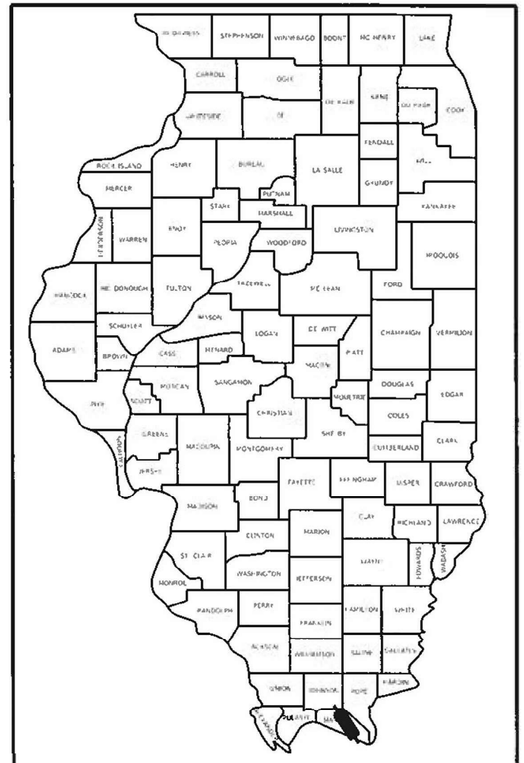
TRAFFIC DATA - FAI 24

I-24 MASSAC	LOC A	LOC B	LOC C
MP	0.00-2.91	2.91-13.52	13.52-15.09
2020			
PV =	11,645	12,125	23,735
SU =	535	560	945
MU =	6,090	6,295	7,040
ADT =	18,270	18,980	31,720
2030			
PV =	13,510	14,075	28,940
SU =	620	650	1,150
MU =	7,070	7,305	8,580
ADT =	21,200	22,030	38,670
% TRUCKS	36%	36%	25%



GROSS LENGTH = 79102.03 FT = 14.981 MILES
NET LENGTH = 77908.98 FT = 14.755 MILES

D–99–060–17



LOCATION OF SECTION INDICATED THUS: –

TOWNSHIPS
GEORGE'S CREEK, BENTON, GRANT, WASHINGTON, METROPOLIS

DESIGN DESIGNATION : NA

COORDINATE SYSTEM : NA

POSTED SPEED : 70 MPH

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

PROJECT ENGINEER VALERIE ROLLA 618–351–5214
PROJECT DESIGNER DARRYL LEFTWICH .. 618–351–5291

CONTRACT NO. 78606

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUBMITTED 10-16 2020

REGION FIVE ENGINEER

December 4, 2020

ENGINEER OF DESIGN AND ENVIRONMENT

December 4, 2020

DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

REV. - MS

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DISTRICT PROGRAM DEVELOPMENT ENGINEER

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DISTRICT OPERATIONS ENGINEER

Examined By:

DISTRICT PROJECT IMPLEMENTATION ENGINEER

Examined By:

DISTRICT CONSTRUCTION ENGINEER

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DISTRICT MATERIALS ENGINEER

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SIGNATURE SHEET

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
24	64(1,2,2-1,3-1,3)RS-2	MASSAC	263	2
		CONTRACT NO.	78606	
	ILLINOIS	FED. AID PROJECT		

INDEX OF SHEETS

SHEET NO	DESCRIPTION	
1	COVER SHEET	
2	SIGNATURE SHEET	
3	INDEX OF SHEETS, HIGHWAY STANDARDS, COMMITMENTS	
4	GENERAL NOTES	
5	MIX DESIGN	
6	STATION EQUATIONS & OMISSIONS	
7	MTD CROSSING RESTRICTIONS TABLES	
8-17	SUMMARY OF QUANTITIES	
18	PROJECT OVERVIEW	
19-21	TYPICAL SECTIONS:	I-24 MAINLINE
22	TYPICAL SECTIONS:	I-24 INTERCHANGE RAMPS
23-28	SCHEDULE:	I-24 HMA SURFACE REMOVAL
29-34	SCHEDULE:	I-24 RESURFACING
35	SCHEDULE:	PCC SHOULDERS - BIG BAY RAMPS
36-47	SCHEDULE:	I-24 PAVEMENT MARKING
48-50	SCHEDULE:	PAVEMENT PATCHING - CLASS A
51-53	SCHEDULE:	GUARDRAIL REPLACEMENT
54	SCHEDULE:	AUTHORIZED MEDIAN CROSSOVERS
55	PLAN SHEETS:	STATE POLICE SPEED ZONES
56-58	PLAN SHEETS:	BIG BAY INTERCHANGE
59-61	PLAN SHEETS:	US 45 INTERCHANGE
62-63	PLAN SHEETS:	VARIOUS
64-68	PLAN SHEETS:	MEDIAN TUBULAR GUARDRAIL REPLACEMENT
69	DETAILS:	TRANSITIONS AT CO LINE
		TRANSITIONS AT BRIDGE CONNECTOR PAVEMENTS
69		PAVING GAPS AT BRIDGES
70	DETAILS:	TRANSITIONS - MAINLINE I-24 TO RAMPS
71	DETAILS:	PAVEMENT AND SHOULDER TRANSITIONS AT RAMP BRIDGES
72	DETAILS:	DETAIL FOR MEDIAN CROSSOVERS
73	DETAILS:	PAVEMENT AND SHOULDER TRANSITIONS BENEATH OVERPASSES
74	DETAILS:	WINGWALL MODIFICATIONS FOR TYPE 6 TERMINALS
75	DETAILS:	STRUCTURAL REPAIR OF CONCRETE
76	DETAILS:	TYPICAL UNDERDRAIN OUTLET MARKER DETAIL
77	DETAILS:	WIDE LOAD SIGNING PLAN
78	DETAILS:	TEMP HMA TRANSITIONS
79	SIGNS:	UNEVEN LANES SIGN
80-263	BRIDGE REPAIR PLANS	

HIGHWAY STANDARDS

000001-08_STANDARD SYMBOLS ABBREVIATIONS & PATTERNS
001001-02_AREAS OF REINF REBARS
001006-00_DECIMAL OF INCH & FOOT
442001-04_CLASS A PATCHES
483001-05_PCC SHOULDER
630001-12_STEEL PLATE BEAM GUARDRAIL
630101-10_STRONG POST GUARDRAIL ATTACHED TO CULV
630116-00_BACKSIDE PROTECTION OF GRDRAIL
630201-07_PCC - BIT STB @ STEEL PLATE BEAM GRDRAIL
630301-09_SHLD WIDEN FOR TYPE 1 GRDRAIL TERMS
631011-10_TRAF BAR TERM TYPE 2
631026-06_TRAF BAR TERM TYPE 5
631031-17_TRAF BAR TERM TYPE 6
635001-02_DELINEATORS
642001-02_SHOULDER RUMBLE STRIP 16 IN
667101-02_PERMANENT SURVEY MRKRS
701101-05_OFF RD OP-MULTI LN - LESS THAN 15 FT TO EOP
701106-02_OFF RD OP-MULTI LN - MORE THAN 15 FT AWAY
701400-10_APPRCH TO LN CLOSURE - FRWAY EXPWAY
701401-12_LN CLOSURE FRWAY EX PWAY
701402-12_LN CLOSURE FRWAY EX PWAY WITH BARRIER
701411-09_LN CLOSURE MULTI LN - ENTR OR EXIT RAMP 45 MPH OR MORE
701426-09_LN CLOSURE MULTI LN - INTERMITTANT OR MOVING OP 45 MPH OR MORE
701456-05_PARTIAL EXIT RAMP CLOSURE FREEWAY EXPRESSWAY
701901-08_TRAF CNTRL DEVICES
725001-01_OBJECT AND TERMINAL MARKERS
780001-05_TYPICAL PVMT MRKINGS
781001-04_TYPICAL APP RAISED REFLC PVMT MRKRS
782006-01_GUARDRAIL AND BARRIER WALL REFLECTOR MOUNTING DEATILS

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

INDEX OF SHEETS, STANDARDS

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
24	64(1,2,2-1,3-1,3)RS-2	MASSAC	263	3
		CONTRACT NO. 78606		
	ILLINOIS	FED. AID PROJECT		

GENERAL NOTES

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

ALL HOT MIX ASPHALT	2.016 TONS/CU. YD.
ALL AGGREGATE	2.05 TONS/CU. YD.

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

THE QUANTITY OF SHORT TERM PAVEMENT MARKING SHOWN IN THE PLANS IS BASED ON ONE APPLICATION EACH FOR THE BINDER COURSE AND SURFACE COURSE

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.

EXISTING PIPE UNDERDRAIN OUTLETS IN THE FORESLOPES OR MEDIAN SLOPES SHALL BE PRESERVED AND PROTECTED DURING CONSTRUCTION. ANY DAMAGE TO AN UNDERDRAIN OUTLET RESULTING FROM CONSTRUCTION ACTIVITY SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.

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.

REVISE STANDARD SPECIFICATIONS ARTICLE 107.12, PARAGRAPH 5, LAST SENTENCE TO READ: 'ALL OTHER RAILROAD FLAGGER COSTS WILL BE INCURRED BY THE DEPARTMENT ACCORDING TO ARTICLE 109.05.'

COMMITMENTS: NONE

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL NOTES

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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
24	64(1,2,2-1,3-1,3)RS-2	MASSAC	263	4
		CONTRACT NO. 78606		
	ILLINOIS FED. AID PROJECT			

HMA MIXTURE REQUIREMENTS TABLES

The following HMA mixture requirements are applicable for this project

Locations	Hot-Mix Asphalt Surface Course
Mixture Use(s):	Polymerized Stone Matrix Asphalt, Surface, Mix E, N80
AB/PG:	SBS PG76-22
ABR % (Max):	See Special Provision
Design Air Voids:	4.0 %, 80 Gyration Design
Mixture Composition: (Gradation Mixture)	IL-9.5mm SMA
Friction Aggregate:	SMA Mix E
Mixture Weight:	112 lbs/Sq Yd/in
Quality Management Program:	PFP
Sublot Size:	TBD

Locations	Hot-Mix Asphalt Binder Course
Mixture Use(s):	Polymerized Hot-Mix Asphalt Binder Course, IL-19.0, N90
AB/PG:	SBS PG76-22
ABR % (Max):	See Special Provision
Design Air Voids:	4.0 %, 90 Gyration Design
Mixture Composition: (Gradation Mixture)	IL-19.0mm
Friction Aggregate:	None
Mixture Weight:	112 lbs/Sq Yd/in
Quality Management Program:	PFP
Sublot Size:	TBD

HMA MIXTURE REQUIREMENTS TABLES - CONT

The following HMA mixture requirements are applicable for this project

Locations	Hot-Mix Asphalt Binder Course (Ramps)
Mixture Use(s):	Polymerized Hot-Mix Asphalt Binder Course, IL-9.5FG, N90
AB/PG:	SBS PG76-22
ABR % (Max):	See Special Provision
Design Air Voids:	4.0 %, 90 Gyration Design
Mixture Composition: (Gradation Mixture)	IL-9.5FG
Friction Aggregate:	None
Mixture Weight:	112 lbs/Sq Yd/in
Quality Management Program:	QCQA
Sublot Size:	NA

Locations	Hot-Mix Asphalt Shoulders and Incidental Hot-Mix Asphalt Surfacing
Mixture Use(s):	Hot-Mix Asphalt Surface Course, Mix C, N70
AB/PG:	PG64-22
ABR % (Max):	See Special Provision
Design Air Voids:	4.0 %, 70 Gyration Design
Mixture Composition: (Gradation Mixture)	IL-9.5mm
Friction Aggregate:	C Surface
Mixture Weight:	112 lbs/Sq Yd/in
Quality Management Program:	QCQA
Sublot Size:	NA

STATION EQUATIONS

	I-24 EBL			MP	I-24 WBL		
EQ STA	456+69.50 BK	= STA	50+54.47 AH	23.39	EQ STA	456+69.50 BK = STA	50+54.47 AH
EQ STA	301+81.06 BK	= STA	301+86.33 AH	28.54	EQ STA	301+81.06 BK = STA	1301+73.45 AH
EQ STA	417+07.71 BK	= STA	417+03.53 AH	30.33	EQ STA	1417+84.96 BK = STA	417+03.53 AH
EQ STA	446+93.78 BK	= STA	32+66.19 AH	31.39	EQ STA	446+93.78 BK = STA	32+66.19 AH
*EQ STA	424+85.87 BK	= STA	428+06.78 AH	39.32	*EQ STA	424+85.87 BK = STA	428+06.78AH)

* NOT USED FOR STATIONING IN THIS SET OF PLANS BUT TO EE CONSIDERED FOR STATION STAMPING ON THE NEW PAVEMENT

BRIDGE & OMISSION DATA

EAST BOUND LAMES

	STRUCTURE	CONNECTOR STA *	APPROACH STA *	ABUTMENT STA *		ABUTMENT STA *	APPROACH STA *	CONNECTOR STA *	MP
	SN 064-0015	**200+65.91**	200+96.87	201+16.37	TO	202+08.62	202+28.12	**202+61.58**	26.75
**	SN 064-0018	NA	253+33.57	**253+53.07**	TO STA	**255+03.90**	255+23.40	NA	27.74
	SN 064-0021	**328+31.71**	328+65.42	328+84.92	TO STA	330+73.00	330+92.50	**331+29.35**	29.16
	SN 064-0024	**93+66.61**	93+97.58	94+17.08	TO STA	95+73.91	95+93.41	**96+26.88**	32.56
	SN 064-0026	**138+63.75**	138+90.18	139+09.68	TO STA	140+28.18	140+47.68	**140+76.29**	33.41
	SN 064-0045	**239+39.48**	239+67.66	239+87.16	TO STA	241+17.66	241+37.16	**241+63.78**	35.33
	SN 064-0030	**400+07.11**	400+27.11	400+46.61	TO STA	401+58.44	401+77.94	**401+97.94**	38.37
	SN 064-0032	**412+17.42**	412+37.42	412+56.92	TO STA	413+97.57	414+17.07	**414+37.07**	38.60
	SN 064-0034	**416+40.09**	416+64.76	416+84.26	TO STA	417+87.84	418+07.34	**418+33.58**	38.68
**	SN 064-0035	NA	427+34.85	**427+74.85**		NA	NA	NA	38.90

WEST BOUND LAMES

STRUCTURE	CONNECTOR STA *	APPROACH STA *	ABUTMENT STA *		ABUTMENT STA *	APPROACH STA *	CONNECTOR STA *	
SN 064-0014	**199+98.43**	200+31.89	200+51.39	TO STA	201+43.64	201+63.14	**201+94.10**	
SN 064-0017	NA	252+36.59	**252+56.09**	TO STA	**254+06.92**	254+26.42	NA	**
SN 064-0020	**1326+71.49**	1327+05.19	1327+24.69	TO STA	1329+03.68	1329+23.18	**1329+54.81**	
SN 064-0023	**92+99.12**	93+32.59	93+52.09	TO STA	95+08.92	95+28.42	**95+55.12**	
SN 064-0025	**138+23.71**	138+52.32	138+71.82	TO STA	139+90.32	140+09.82	**140+36.25**	
SN 064-0046	**239+94.31**	240+19.64	240+39.14	TO STA	241+69.64	241+89.14	**242+18.11**	
SN 064-0031	**400+07.40**	400+27.41	400+46.91	TO STA	401+58.74	401+78.24	**401+98.24**	
SN 064-0033	**412+15.51**	412+35.51	412+55.01	TO STA	413+94.67	414+14.17	**414+34.17**	
SN 064-0034	**416+32.81**	416+57.60	416+77.10	TO STA	417+81.02	418+00.52	**418+26.18**	
SN 064-0035	NA	427+34.85	**427+74.85**		NA	NA	NA	**

ALL STATIONING IS APPROXIMATE

* STATIONING FOR STRUCTURES 064-0030, 064-0031, 064-0032, 064-0033, 064-0034, AND 064-0035 IS FROM THE MEDIAN ALIGNMENT USED IN THESE ROADWAY PLANS, NOT THE INDEPENDENT ALIGNMENTS USED IN THE STRUCTURE PLANS (WHICH ARE FROM THE ORIGINAL CONSTRUCTION PLANS FOR THE STRUCTURES)

OMISSIONS FOR THE ABOVE STRUCTURES IN THE ROADWAY PLANS WILL BE FROM OUT TO OUT OF THE CONNECTOR PAVEMENTS

** EXCEPT FOR STRUCTURES 064-0017, 064-0018 AND 064-0035 WHERE THE OMISSIONS WILL BEGIN AND END AT THE ABUTMENTS.

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STATION EQUATIONS
BRIDGE & OMISSION DATA

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
24	64(1,2,2-1,3-1,3)RS-2	MASSAC	263	6
		CONTRACT NO. 78606		
	ILLINOIS	FED. AID PROJECT		

MTD CROSSING RESTRICTIONS TABLE - BRIDGES

ROUTE I-24 MASSAC CO								CULVERT FILL HEIGHT (OVERPASS CLEARANCE)	PROP * PVMT THICK OVER CULVERT	Culvert Rating	2017 MTD CROSSING RESTRICTIONS
STRUCTURE		FACILITY CARRIED	FEATURE CROSSED	STATION		MP		FOOT	FT-IN	%	
BRIDGE STRUCTURES											
	JOHNSON / MASSAC Co Line			STA	50+54.47	MP	23.89				
SN	064-0014	I 24 WB	NEW COLUMBIA DITCH	STA	200+97.52	MP	25.74		NA	NA	Emptied *
SN	064-0015	I 24 EB	NEW COLUMBIA DITCH	STA	201+62.50	MP	25.75		NA	NA	Emptied *
SN	064-0037	I-24 WB ON RAMP	NEW COLUMBIA DITCH	STA	4+02.04	MP	25.73		NA	NA	Emptied *
SN	064-0038	I-24 EB OFF RAMP	NEW COLUMBIA DITCH	STA	14+10.00	MP	25.76		NA	NA	Emptied *
SN	064-0017	I 24 WB	BEAR CREEK	STA	253+31.51	MP	27.73		NA	NA	Emptied *
SN	064-0018	I 24 EB	BEAR CREEK	STA	254+28.49	MP	27.75		NA	NA	Emptied *
SN	064-0020	I 24 WB	ICG RAILROAD	STA	1328+14.19	MP	29.15		NA	NA	Emptied *
SN	064-0021	I 24 EB	ICG RAILROAD	STA	329+78.96	MP	29.18		NA	NA	Emptied *
SN	064-0023	I 24 WB	MASSAC CREEK	STA	94+30.51	MP	32.56		NA	NA	Emptied *
SN	064-0024	I 24 EB	MASSAC CREEK	STA	94+95.50	MP	32.57		NA	NA	Emptied *
SN	064-0025	I 24 WB	TR 86 MASSAC CR RD	STA	139+31.07	MP	33.41		NA	NA	Emptied *
SN	064-0026	I 24 EB	TR 86 MASSAC CR RD	STA	139+68.93	MP	33.42		NA	NA	Emptied *
SN	064-0045	I 24 EB	FAS 962 COUNTRY CLUB	STA	240+52.41	MP	35.33		NA	NA	Emptied *
SN	064-0046	I 24 WB	FAS 962 COUNTRY CLUB	STA	241+04.39	MP	35.34		NA	NA	Emptied *
SN	064-0030	I 24 EB	FUTURE PARK ROAD	STA	400+98.83	MP	33.37		NA	NA	Emptied *
SN	064-0031	I 24 WB	FUTURE PARK ROAD	STA	401+05.85	MP	33.37		NA	NA	Emptied *
SN	064-0032	I 24 EB	ABANDON RR BED	STA	413+19.67	MP	33.60		NA	NA	Emptied *
SN	064-0033	I 24 WB	ABANDON RR BED	STA	413+31.86	MP	33.60		NA	NA	Emptied *
SN	064-0034	I 24 WBL	OR 4 - FT MASSAC ST PK	STA	417+27.50	MP	33.68		NA	NA	Emptied *
SN	064-0034	I 24 EBL	OR 4 - FT MASSAC ST PK	STA	417+36.51	MP	33.68		NA	NA	Emptied *
SN	064-0035	I 24	APPROACH SLAB	STA	430+56.50	MP	33.87		NA	NA	No MTD Allowed!
SN	064-0035	I 24	ABUTMENT SLAB	STA	430+96.50	MP	33.88		NA	NA	No MTD Allowed!

* Emptied MTD: Max Gross Weight <= 40 Tons

MTD CROSSING RESTRICTIONS TABLE - 2000 & 7000 SERIES CULVERTS

ROUTE I-24 MASSAC CO								EXIST FILL HEIGHT OVER CULVERT	PROP * PVMT THICK OVER CULVERT	Culvert Rating	2017 MTD CROSSING RESTRICTIONS
STRUCTURE		FACILITY CARRIED	FEATURE CROSSED	STATION		MP		FOOT	FOOT	%	
2000 CULVERTS											
SN	064-2000	I 24	GEORGES CREEK	STA	159+50.00	MP	25.95	5.7	8" CRC, 5" HMA	6	Emptied *
SN	064-2001	I 24	GURLEY DITCH	STA	291+08.00	MP	23.44	4.7	8" CRC, 5" HMA	7	Emptied *
7000 CULVERTS											
SN	064-7001	I 24	DITCH	STA	68+67.80	MP	24.23	9.7	8" CRC, 5" HMA	7	Emptied *
SN	064-7002	I 24	DITCH	STA	108+07.17	MP	24.98	18.8	8" CRC, 5" HMA	6	Emptied *
SN	064-7003	I 24	DITCH	STA	141+77.77	MP	25.62	5.6	8" CRC, 5" HMA	7	Emptied *
SN	064-7004	I 24 EB ENTR RAMP	DITCH	STA	5+67.08	MP	25.91	8.4	8" CRC, 5" HMA	7	Emptied *
SN	064-7005	I 24	DITCH	STA	209+92.05	MP	25.91	9.5	8" CRC, 5" HMA	6	Emptied *
SN	064-7006	I 24 WB EXIT RAMP	DITCH	STA	9+66.03	MP	25.91	11.6	8" CRC, 5" HMA	7	Emptied *
SN	064-7017	I 24	DITCH	STA	229+15.57	MP	27.27	7.1	8" CRC, 5" HMA	6	Emptied *
SN	064-7007	I 24	DITCH	STA	249+98.85	MP	27.67	9.1	8" CRC, 5" HMA	6	Emptied *
SN	064-7012	I 24	DITCH	STA	152+08.03	MP	33.66	18.2	8" CRC, 5" HMA	6	Emptied *
SN	064-7014	I 24	DITCH	STA	383+00.00	MP	33.03	5.0	8" CRC, 5" HMA	6	Emptied *
SN	064-7015	I 24	DITCH	STA	409+00.00	MP	33.52	30.0	8" CRC, 5" HMA	7	Emptied *
SN	064-7016	I 24	DITCH	STA	415+01.82	MP	33.64	36.0	8" CRC, 5" HMA	7	Emptied *

* Emptied MTD: Max Gross Weight <= 40 Tons

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MTD CROSSING RESTRICTIONS

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
24	64(1,2,2-1,3-1,3)RS-2	MASSAC	263	7
		CONTRACT NO. 78606		
	ILLINOIS	FED. AID PROJECT		

SUMMARY OF QUANTITIES

CODE NUMBER	ITEM DESCRIPTION	UNIT	TOTAL QUANTITY	COUNTY: MASSAC CO ROUTE: FAI 24 FUNDING: 90% FEDERAL 10% STATE LOCATION: RURAL ROADWAY 0005	COUNTY: MASSAC CO ROUTE: FAI 24 FUNDING: 90% FEDERAL 10% STATE LOCATION: URBAN ROADWAY 0005	COUNTY: MASSAC CO ROUTE: FAI 24 FUNDING: 90% FEDERAL 10% STATE LOCATION: BRIDGE REHABILITATION 0013
40600295	POLYMERIZED BITUMINOUS MATERIALS (TACK COAT)	POUND	432,276	344,698	87,578	
40600985	PORTLAND CEMENT CONCRETE SURFACE REMOVAL - BUTT JOINT	SQ YD	1,814	1,814		
40600990	TEMPORARY RAMP	SQ YD	3,834	2,510	1,324	
40603219	POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL-9.5FG, N90	TON	1,433	782	651	
40603240	POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N90	TON	57,469	45,680	11,789	
40605024	POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, STONE MATRIX ASPHALT, 9.5, MIX E, N80	TON	39,546	30,993	8,553	
40800050	INCIDENTAL HOT-MIX ASPHALT SURFACING	TON	95	76	19	
44000151	HOT-MIX ASPHALT SURFACE REMOVAL, 1/2"	SQ YD	32,032	3,387	28,645	
44000152	HOT-MIX ASPHALT SURFACE REMOVAL, 3/4"	SQ YD	28,085	28,085	0	
44000153	HOT-MIX ASPHALT SURFACE REMOVAL, 1"	SQ YD	227,717	198,338	29,379	
44000155	HOT-MIX ASPHALT SURFACE REMOVAL, 1 1/2"	SQ YD	1,016	676	340	
44000162	HOT-MIX ASPHALT SURFACE REMOVAL, 3 1/4"	SQ YD	384,630	302,977	81,653	
44000166	HOT-MIX ASPHALT SURFACE REMOVAL, 4 1/4"	SQ YD	44,556	44,556	0	
44004250	PAVED SHOULDER REMOVAL	SQ YD	9,635			9,635

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES
SHEET 1 OF 10

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
24	64(1,2,2-1,3-1,3)RS-2	MASSAC	263	8
		CONTRACT NO. 78606		
	ILLINOIS FED. AID PROJECT			

SUMMARY OF QUANTITIES - CONT

CODE NUMBER	ITEM DESCRIPTION	UNIT	TOTAL QUANTITY	COUNTY: MASSAC CO ROUTE: FAI 24 FUNDING: 90% FEDERAL 10% STATE LOCATION: RURAL ROADWAY 0005	COUNTY: MASSAC CO ROUTE: FAI 24 FUNDING: 90% FEDERAL 10% STATE LOCATION: URBAN ROADWAY 0005	COUNTY: MASSAC CO ROUTE: FAI 24 FUNDING: 90% FEDERAL 10% STATE LOCATION: BRIDGE REHABILITATION 0013
44200573	CLASS A PATCHES, TYPE I, 12 INCH	SQ YD	104	104		
44200577	CLASS A PATCHES, TYPE II, 12 INCH	SQ YD	638	492	146	
44200583	CLASS A PATCHES, TYPE IV, 12 INCH	SQ YD	383	356	27	
44213000	PATCHING REINFORCEMENT	SQ YD	1,145	972	173	
44213200	SAW CUTS	FOOT	6,446	5,418	1,028	
44213204	TIE BARS 3/4"	EACH	2,024	1,986	38	
48102100	AGGREGATE WEDGE SHOULDER, TYPE B	TON	1,827	1,017	810	
48203100	HOT-MIX ASPHALT SHOULDERS	TON	25,405	19,577	5,828	
48300515	PORTLAND CEMENT CONCRETE SHOULDERS 10 3/4"	SQ YD	6,818	6,818		
48301000	PROTECTIVE COAT	SQ YD	6,818	6,818		
50102400	CONCRETE REMOVAL	CU YD	491.6			491.6
50157300	PROTECTIVE SHIELD	SQ YD	2,108			2,108
50200100	STRUCTURE EXCAVATION	CU YD	866			866
50300100	FLOOR DRAINS	EACH	38			38

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES
SHEET 2 OF 10
SCALE: | SHEET OF SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
24	64(1,2,2-1,3-1,3)RS-2	MASSAC	263	9
		CONTRACT NO. 78606		
	ILLINOIS FED. AID PROJECT			

SUMMARY OF QUANTITIES - CONT

CODE NUMBER	ITEM DESCRIPTION	UNIT	TOTAL QUANTITY	COUNTY: MASSAC CO ROUTE: FAI 24 FUNDING: 90% FEDERAL 10% STATE LOCATION: RURAL ROADWAY 0005	COUNTY: MASSAC CO ROUTE: FAI 24 FUNDING: 90% FEDERAL 10% STATE LOCATION: URBAN ROADWAY 0005	COUNTY: MASSAC CO ROUTE: FAI 24 FUNDING: 90% FEDERAL 10% STATE LOCATION: BRIDGE REHABILITATION 0013
50300225	CONCRETE STRUCTURES	CU YD	420.8			420.8
50300255	CONCRETE SUPERSTRUCTURE	CU YD	780.5			780.5
50300300	PROTECTIVE COAT	SQ YD	11,999			11,999
50301350	CONCRETE SUPERSTRUCTURE (APPROACH SLAB)	CU YD	1,091.7			1,091.7
50500405	FURNISHING AND ERECTING STRUCTURAL STEEL	POUND	15,320			15,320
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	585,050			585,050
50800515	BAR SPLICERS	EACH	4,188			4,188
52100010	ELASTOMERIC BEARING ASSEMBLY, TYPE I	EACH	72			72
52100520	ANCHOR BOLTS, 1"	EACH	192			192
52200010	TEMPORARY SHEET PILING	SQ FT	930			930
52200020	TEMPORARY SOIL RETENTION SYSTEM	SQ FT	566			566
58600101	GRANULAR BACKFILL FOR STRUCTURES	CU YD	1,060			1,060
59100100	GEOCOMPOSITE WALL DRAIN	SQ YD	133			133
60100060	CONCRETE HEADWALLS FOR PIPE DRAINS	EACH	52			52

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES
SHEET 3 OF 10

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
24	64(1,2,2-1,3-1,3)RS-2	MASSAC	263	10
		CONTRACT NO. 78606		
	ILLINOIS FED. AID PROJECT			

SUMMARY OF QUANTITIES - CONT

	CODE NUMBER	ITEM DESCRIPTION	UNIT	COUNTY: / ROUTE: / FUNDING: / LOCATION: / TOTAL QUANTITY	MASSAC CO / FAI 24 / 90% FEDERAL 10% STATE / RURAL ROADWAY 0005	MASSAC CO / FAI 24 / 90% FEDERAL 10% STATE / URBAN ROADWAY 0005	MASSAC CO / FAI 24 / 90% FEDERAL 10% STATE / BRIDGE REHABILITATION 0013
	60260100	INLETS TO BE ADJUSTED	EACH	2			2
	60600605	CONCRETE CURB, TYPE B	FOOT	285	60	225	
*	63000001	STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS	FOOT	9,298	3,910	5,388	
*	63000017	STEEL PLATE BEAM GUARDRAIL, TYPE D, 6 FOOT POSTS	FOOT	894		894	
*	63100045	TRAFFIC BARRIER TERMINAL, TYPE 2	EACH	7	4	3	
*	63100070	TRAFFIC BARRIER TERMINAL, TYPE 5	EACH	7	4	3	
*	63100085	TRAFFIC BARRIER TERMINAL, TYPE 6	EACH	35	20	15	
*	63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	25	20	5	
	63200310	GUARDRAIL REMOVAL	FOOT	12,679		12,679	
	63500105	DELINEATORS	EACH	554	398	156	
	63700380	CONCRETE BARRIER, VARIABLE CROSS SECTION 44 INCH HEIGHT	FOOT	30			30
	64200116	SHOULDER RUMBLE STRIPS, 16 INCH	FOOT	330,512	263,500	67,012	
	66700205	PERMANENT SURVEY MARKERS, TYPE I	EACH	1		1	
	67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	22.0	17.6	4.4	

* SPECIALTY ITEM

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES
SHEET 4 OF 10

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
24	64(1,2,2-1,3-1,3)RS-2	MASSAC	263	11
		CONTRACT NO. 78606		
		ILLINOIS	FED. AID PROJECT	

SUMMARY OF QUANTITIES - CONT

CODE NUMBER	ITEM DESCRIPTION	UNIT	COUNTY:	MASSAC CO	MASSAC CO	MASSAC CO
			ROUTE:	FAI 24	FAI 24	FAI 24
			FUNDING:	90% FEDERAL 10% STATE	90% FEDERAL 10% STATE	90% FEDERAL 10% STATE
			LOCATION:	RURAL	URBAN	BRIDGE REHABILITATION
			TOTAL QUANTITY	ROADWAY 0005	ROADWAY 0005	0013
67100100	MOBILIZATION	L SUM	1.0	0.8	0.2	
70100207	TRAFFIC CONTROL AND PROTECTION, STANDARD 701402	EACH	14	8	6	
70100420	TRAFFIC CONTROL AND PROTECTION, STANDARD 701411	EACH	8	4	4	
70100800	TRAFFIC CONTROL AND PROTECTION, STANDARD 701401	L SUM	1.0	0.8	0.2	
70100825	TRAFFIC CONTROL AND PROTECTION, STANDARD 701456	L SUM	1.0	0.8	0.2	
70103815	TRAFFIC CONTROL SURVEILLANCE	CAL DA	15	12	3	
70107025	CHANGEABLE MESSAGE SIGN	CAL DA	84	56	28	
70200100	NIGHTTIME WORK ZONE LIGHTING	L SUM	1		1	
70300100	SHORT TERM PAVEMENT MARKING	FOOT	88,354	71,036	17,318	
70300150	SHORT TERM PAVEMENT MARKING REMOVAL	SQ FT	29,452	23,679	5,773	
70300240	TEMPORARY PAVEMENT MARKING - LINE 6"	FOOT	385,660	305,272	80,388	
70300250	TEMPORARY PAVEMENT MARKING - LINE 8"	FOOT	5,557	3,236	2,321	
70300260	TEMPORARY PAVEMENT MARKING - LINE 12"	FOOT	96	48	48	
70300280	TEMPORARY PAVEMENT MARKING - LINE 24"	FOOT	150	150	0	
70400100	TEMPORARY CONCRETE BARRIER	FOOT	5,347			5,347

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	PLOT SCALE = 100.0000 ' / in.	DRAWN -	REVISED -			24	64(1,2,2-1,3-1,3)RS-2	MASSAC	263	12
	PLOT DATE = 10/21/2020	CHECKED -	REVISED -					CONTRACT NO. 78606		
		DATE -	REVISED -		SCALE: SHEET OF SHEETS STA. TO STA.			ILLINOIS	FED. AID PROJECT	

SUMMARY OF QUANTITIES - CONT

	CODE NUMBER	ITEM DESCRIPTION	UNIT	COUNTY: / ROUTE: / FUNDING: / LOCATION: / TOTAL QUANTITY	MASSAC CO / FAI 24 / 90% FEDERAL 10% STATE / RURAL ROADWAY 0005	MASSAC CO / FAI 24 / 90% FEDERAL 10% STATE / URBAN ROADWAY 0005	MASSAC CO / FAI 24 / 90% FEDERAL 10% STATE / BRIDGE REHABILITATION 0013
	70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	5,347			5,347
	70600250	IMPACT ATTENUATORS, TEMPORARY (NON- REDIRECTIVE), TEST LEVEL 3	EACH	14			14
	70600350	IMPACT ATTENUATORS, RELOCATE (NON- REDIRECTIVE), TEST LEVEL 3	EACH	14			14
*	72501000	TERMINAL MARKER - DIRECT APPLIED	EACH	25	20	5	
*	78000100	THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	762	609	153	
*	78000400	THERMOPLASTIC PAVEMENT MARKING - LINE 6"	FOOT	385,660	305,272	80,388	
*	78000500	THERMOPLASTIC PAVEMENT MARKING - LINE 8"	FOOT	5,557	3,236	2,321	
*	78000600	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	96	48	48	
*	78000650	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	150	150	0	
*	78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	2,534	1,859	633	42
	78100105	RAISED REFLECTIVE PAVEMENT MARKER (BRIDGE)	EACH	14			14
*	78200005	GUARDRAIL REFLECTORS, TYPE A	EACH	250	118	132	
*	78200010	BARRIER WALL REFLECTORS, TYPE B	EACH	134			134
	78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	2,550	1,859	633	58

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		DRAWN -	REVISED -			24	64(1,2,2-1,3-1,3)RS-2	MASSAC	263	13
	PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -					CONTRACT NO. 78606		
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SUMMARY OF QUANTITIES - CONT

	CODE NUMBER	ITEM DESCRIPTION	UNIT	COUNTY: / ROUTE: / FUNDING: / LOCATION: / TOTAL QUANTITY	MASSAC CO / FAI 24 / 90% FEDERAL 10% STATE / RURAL / ROADWAY / 0005	MASSAC CO / FAI 24 / 90% FEDERAL 10% STATE / URBAN / ROADWAY / 0005	MASSAC CO / FAI 24 / 90% FEDERAL 10% STATE / BRIDGE REHABILITATION / 0013
	X0100002	GRADING AND SHAPING SPECIAL	SQ YD	15			15
	X0322278	RODENT SHIELDS	EACH	381	304	77	
	X0326797	RE-ATTACH GUARDRAIL TO STRUCTURE	EACH	1			1
	X2503100	MOWING	UNIT	779.1	623.3	155.8	
	X4201410	BRIDGE APPROACH PAVEMENT CONNECTOR (SPECIAL)	SQ YD	3,521			3,521
	X5030250	BRIDGE DECK GROOVING (LONGITUDINAL)	SQ YD	6,271			6,271
*	X6300145	STEEL PLATE BEAM GUARDRAIL, TYPE D (SPECIAL)	FOOT	44			44
*	X6300155	STEEL PLATE BEAM GUARDRAIL, ATTACHED TO STRUCTURES (SPECIAL)	FOOT	200			200
*	X6310214	TRAFFIC BARRIER TERMINAL, TYPE 6 (SPECIAL)	EACH	2	0	2	
	X6331007	REMOVAL AND REPLACEMENT OF STEEL PLATE BEAM GUARDRAIL, RAIL ELEMENT	FOOT	25			25
	X6350120	DELINEATOR REMOVAL	EACH	554	398	156	
	X7030005	TEMPORARY PAVEMENT MARKING REMOVAL	SQ FT	196,834	155,093	41,741	
	X7040125	PINNING TEMPORARY CONCRETE BARRIER	EACH	124			124

* SPECIALTY ITEM

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STATE OF ILLINOIS
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SUMMARY OF QUANTITIES
SHEET 7 OF 10

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
24	64(1,2,2-1,3-1,3)RS-2	MASSAC	263	14
		CONTRACT NO. 78606		
	ILLINOIS FED. AID PROJECT			

SUMMARY OF QUANTITIES - CONT

	CODE NUMBER	ITEM DESCRIPTION	UNIT	COUNTY: / ROUTE: / FUNDING: / LOCATION: / TOTAL QUANTITY	MASSAC CO / FAI 24 / 90% FEDERAL 10% STATE / RURAL / ROADWAY / 0005	MASSAC CO / FAI 24 / 90% FEDERAL 10% STATE / URBAN / ROADWAY / 0005	MASSAC CO / FAI 24 / 90% FEDERAL 10% STATE / BRIDGE REHABILITATION / 0013
	X7830050	RAISED REFLECTIVE PAVEMENT MARKER, REFLECTOR REMOVAL	EACH	56			56
*	X7830060	GROOVING FOR RECESSED PAVEMENT MARKING, LETTERS AND SYMBOLS	SQ FT	850	680	170	
*	X7830074	GROOVING FOR RECESSED PAVEMENT MARKING 7"	FOOT	385,660	305,272	80,388	
*	X7830076	GROOVING FOR RECESSED PAVEMENT MARKING 9"	FOOT	5,557	3,236	2,321	
*	X7830078	GROOVING FOR RECESSED PAVEMENT MARKING 13"	FOOT	96	48	48	
*	X7830090	GROOVING FOR RECESSED PAVEMENT MARKING 25"	FOOT	150	150	0	
	X8570000	SMART TRAFFIC MONITORING SYSTEM	L SUM	1.0	0.8	0.2	
	Z0001899	JACK AND REMOVE EXISTING BEARINGS	EACH	72			72
	Z0001903	STRUCTURAL STEEL REMOVAL	POUND	25,900			25,900
	Z0004552	APPROACH SLAB REMOVAL	SQ YD	2,982			2,982
*	Z0007112	CONTAINMENT AND DISPOSAL OF LEAD PAINT CLEANING RESIDUES	L SUM	1.0			1.0
*	Z0010501	CLEANING AND PAINTING STEEL BRIDGE NO. 1	L SUM	1			1
*	Z0010502	CLEANING AND PAINTING STEEL BRIDGE NO. 2	L SUM	1			1
*	Z0010503	CLEANING AND PAINTING STEEL BRIDGE NO. 3	L SUM	1			1

* SPECIALTY ITEM

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES
SHEET 8 OF 10

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
24	64(1,2,2-1,3-1,3)RS-2	MASSAC	263	15
		CONTRACT NO. 78606		
	ILLINOIS	FED. AID PROJECT		

SUMMARY OF QUANTITIES - CONT

	CODE NUMBER	ITEM DESCRIPTION	UNIT	COUNTY: / ROUTE: / FUNDING: / LOCATION: / TOTAL QUANTITY	MASSAC CO / FAI 24 / 90% FEDERAL 10% STATE / RURAL / ROADWAY / 0005	MASSAC CO / FAI 24 / 90% FEDERAL 10% STATE / URBAN / ROADWAY / 0005	MASSAC CO / FAI 24 / 90% FEDERAL 10% STATE / BRIDGE REHABILITATION / 0013
*	Z0010504	CLEANING AND PAINTING STEEL BRIDGE NO. 4	L SUM	1			1
*	Z0010505	CLEANING AND PAINTING STEEL BRIDGE NO. 5	L SUM	1			1
*	Z0010506	CLEANING AND PAINTING STEEL BRIDGE NO. 6	L SUM	1			1
*	Z0010507	CLEANING AND PAINTING STEEL BRIDGE NO. 7	L SUM	1			1
*	Z0010508	CLEANING AND PAINTING STEEL BRIDGE NO. 8	L SUM	1			1
*	Z0010509	CLEANING AND PAINTING STEEL BRIDGE NO. 9	L SUM	1			1
*	Z0010510	CLEANING AND PAINTING STEEL BRIDGE NO. 10	L SUM	1			1
*	Z0010511	CLEANING AND PAINTING STEEL BRIDGE NO. 11	L SUM	1			1
	Z0012148	BRIDGE DECK SCARIFICATION 3"	SQ YD	7,265			7,265
	Z0012754	STRUCTURAL REPAIR OF CONCRETE (DEPTH EQUAL TO OR LESS THAN 5 INCHES)	SQ FT	54	10		44
	Z0016001	DECK SLAB REPAIR (FULL DEPTH, TYPE I)	SQ YD	25			25
	Z0016002	DECK SLAB REPAIR (FULL DEPTH, TYPE II)	SQ YD	363			363
	Z0029090	DIAMOND GRINDING (BRIDGE SECTION)	SQ YD	13,074			13,074
	Z0033700	LONGITUDINAL JOINT SEALANT	FOOT	161,778	129,825	31,953	

* SPECIALTY ITEM

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DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES
SHEET 9 OF 10

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
24	64(1,2,2-1,3-1,3)RS-2	MASSAC	263	16
		CONTRACT NO. 78606		
		ILLINOIS FED. AID PROJECT		

SUMMARY OF QUANTITIES - CONT

	CODE NUMBER	ITEM DESCRIPTION	UNIT	COUNTY: / ROUTE: / FUNDING: / LOCATION: / TOTAL QUANTITY	MASSAC CO / FAI 24 / 90% FEDERAL 10% STATE / RURAL ROADWAY 0005	MASSAC CO / FAI 24 / 90% FEDERAL 10% STATE / URBAN ROADWAY 0005	MASSAC CO / FAI 24 / 90% FEDERAL 10% STATE / BRIDGE REHABILITATION 0013
	Z0034105	MATERIAL TRANSFER DEVICE	TON	98,414	77,455	20,959	
	Z0043800	PRECAST PRESTRESSED CONCRETE I-BEAM REPAIR	SQ FT	13			13
	Z0046304	PIPE UNDERDRAINS FOR STRUCTURES 4"	FOOT	969			969
	Z0048665	RAILROAD PROTECTIVE LIABILITY INSURANCE	L SUM	1			1
*	Z0054404	ROCK FILL - EMBANKMENT	CU YD	13.8			13.8
	Z0065730	SLOPE WALL SLURRY PUMPING	CU YD	8.0			8.0
	Z0006021	BRIDGE DECK LATEX CONCRETE OVERLAY, 3 1/4 INCHES	SQ YD	7,300			7,300
	X0900092	REPAIR BRIDGE RAIL	FOOT	25			25
Ø	Z0076600	TRAINEES	HOUR	500	500		
	X5010400	BRIDGE RAIL REMOVAL (SPECIAL)	FOOT	144			144
Ø	Z0076604	TRAINEES TRAINING PROGRAM GRADUATE	HOUR	500	500		

* SPECIALTY ITEM

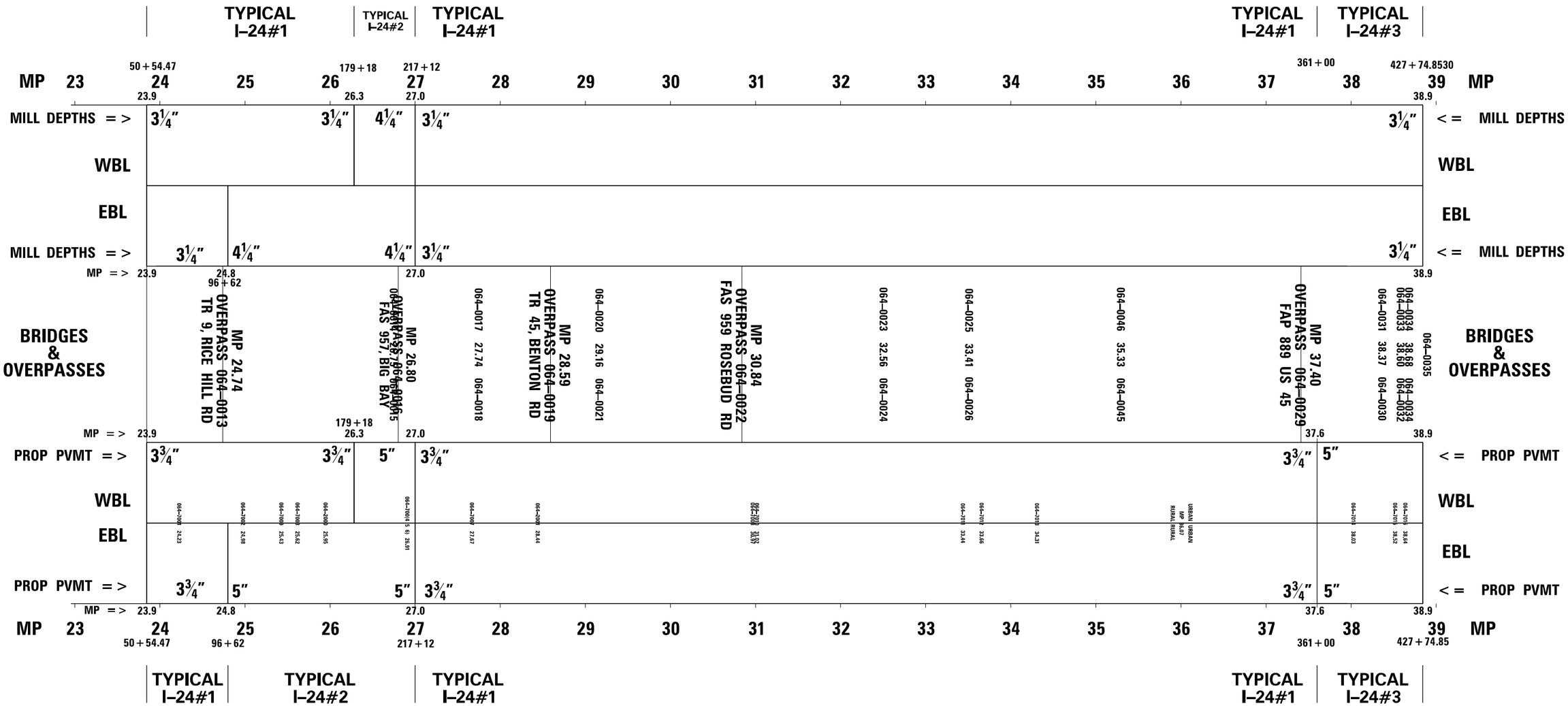
Ø 0042

REV. - MS

FILE NAME = pw:\\planroom.dot.illinois.gov:PWIDOT\Documents\IDOT Offices\District 9\Projects\78606\CADData\CADsheets\d978606-sht.dgn Default	USER NAME = leftwichdl	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUMMARY OF QUANTITIES SHEET 10 OF 10	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 100.0000 ' / in.	DRAWN -	REVISED -			24	64(1,2,2-1,3-1,3)RS-2	MASSAC	263	17
	PLOT DATE = 10/21/2020	CHECKED -	REVISED -		SCALE: SHEET OF SHEETS STA. TO STA.			CONTRACT NO. 78606		
		DATE -	REVISED -					ILLINOIS	FED. AID PROJECT	

PROJECT OVERVIEW

MILLING OVERVIEW



PROPOSED HMA OVERVIEW

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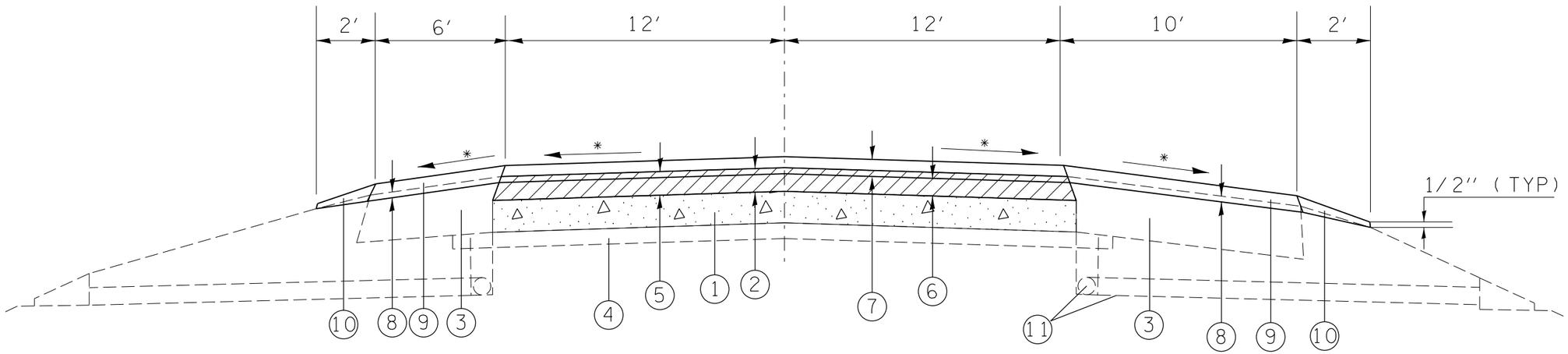
		DRAWN -	REVISED -			24	64(1,2,2-1,3-1,3)RS-2	MASSAC	263	18
Default	PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -					CONTRACT NO. 78606		
	PLOT DATE = 10/21/2020	DATE -	REVISED -		SCALE: SHEET OF SHEETS STA. TO STA.			ILLINOIS FED. AID PROJECT		

TYPICAL SECTION I–24#1

(NOT TO SCALE)

℄ FAI 24
(EB & WB LANES)

(LOOKING IN DIRECTION OF TRAVEL)



TO BE USED:

EAST BOUND LANES
STA 50+54.47 (MP 23.9) TO STA 96+62 (MP 24.8)
STA 217+12.00 (MP 27.0) TO STA 361+00 (MP 37.6)

WEST BOUND LANES
STA 50+54.47 (MP 23.9) TO STA 179+18 (MP 26.3)
STA 217+12.00 (MP 27.0) TO STA 361+00 (MP 37.6)

1. EXISTING CRC PAVEMENT, 8″
2. EXISTING BIT SURFACE AND BINDER (VARIES)
3. EXISTING HMA SHOULDERS
4. EXISTING STABILIZED SUB-BASE, 4″
5. HMA SURFACE REMOVAL, 3¼″ (DOWN TO EXISTING CRC PAVEMENT)
6. POLY HMA BINDER COURSE, IL-19.0, N90, 2¼″
7. POLY HMA SURFACE COURSE, MIX. D, N90, 1½″
8. HMA SURFACE REMOVAL, 1″ (SHOULDERS ONLY)
9. HMA SHOULDERS 1½″
10. AGGREGATE WEDGE SHOULDERS, TY B
11. EXISTING PIPE UNDERDRAINS (TO REMAIN IN PLACE - TYP)

* MATCH EXIST SLOPES
** THE DEPTH OF HMA SURFACE REMOVAL WILL VARY BENEATH OVERPASSES AND ADJACENT AREAS

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		DRAWN -	REVISED -
	PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -
Default	PLOT DATE = 10/21/2020	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

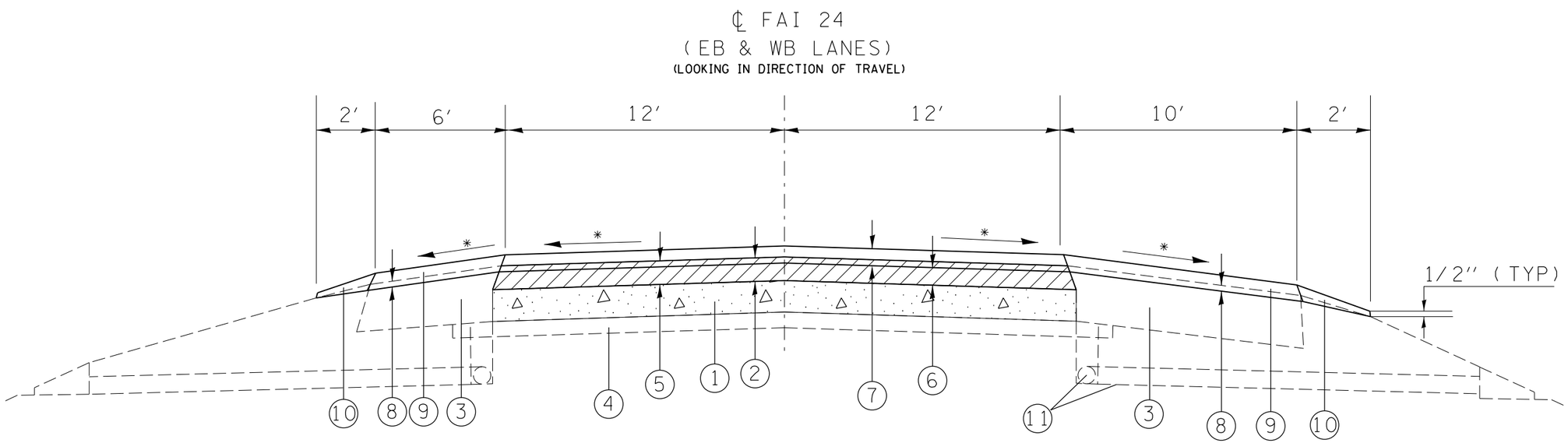
TYPICAL SECTION I-24#1
I-24 EAST BOUND & WEST BOUND LANES

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
24	64(1,2,2-1,3-1,3)RS-2	MASSAC	263	19
		CONTRACT NO. 78606		
		ILLINOIS	FED. AID PROJECT	

TYPICAL SECTION I–24#2

(NOT TO SCALE)



TO BE USED:

EAST BOUND LANES
STA 96+62 (MP 24.8) TO STA 217+12.00 (MP 27.0)

WEST BOUND LANES
STA 179+18 (MP 26.3) TO STA 217+12.00 (MP 27.0)

1. EXISTING CRC PAVEMENT, 8″
2. EXISTING BIT SURFACE AND BINDER (VARIES)
3. EXISTING HMA SHOULDERS
4. EXISTING STABILIZED SUB-BASE, 4″
5. HMA SURFACE REMOVAL, 4 1/4″ (DOWN TO EXISTING CRC PAVEMENT)
6. POLY HMA BINDER COURSE, IL-19.0, N90, 3″
7. POLY HMA SURFACE COURSE, MIX. D, N90, 2″
8. HMA SURFACE REMOVAL, 3/4″ (SHOULDERS ONLY)
9. HMA SHOULDERS 1 1/2″
10. AGGREGATE WEDGE SHOULDERS, TY B
11. EXISTING PIPE UNDERDRAINS (TO REMAIN IN PLACE - TYP)

* MATCH EXIST SLOPES

** THE DEPTH OF HMA SURFACE REMOVAL WILL VARY BENEATH OVERPASSES AND ADJACENT AREAS

FILE NAME = pw:\\planroom.dot.illinois.gov:PWIDOT\Documents\IDOT Offices\District 9\Projects\78606\CADData\CADsheets\d978606-sht_	USER NAME = leftwichdl	DESIGNED -	REVISED -
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Default	PLOT DATE = 10/21/2020	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

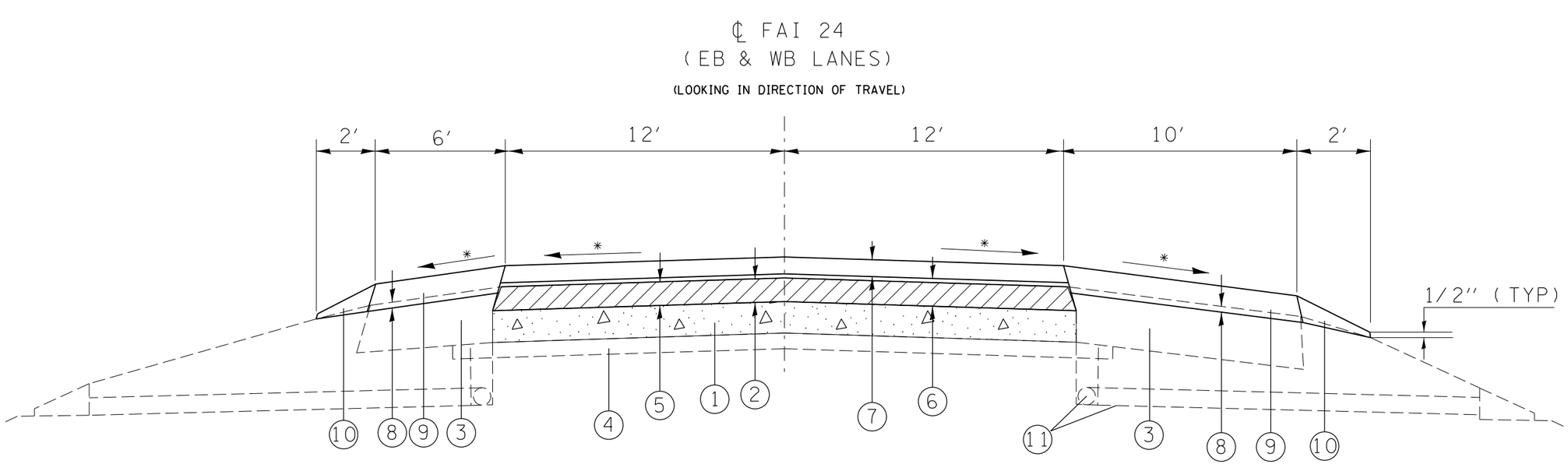
TYPICAL SECTION I-24#2
I-24 EAST BOUND & WEST BOUND LANES

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
24	64(1,2,2-1,3-1,3)RS-2	MASSAC	263	20
		CONTRACT NO. 78606		
	ILLINOIS	FED. AID PROJECT		

TYPICAL SECTION I–24#3

(NOT TO SCALE)



TO BE USED:

EAST BOUND LANES
STA 361+00 (MP 37.6) TO STA 427+34.85 (MP 38.9)

WEST BOUND LANES
STA 361+00 (MP 37.6) TO STA 427+34.85 (MP 38.9)

1. EXISTING CRC PAVEMENT, 8″
2. EXISTING BIT SURFACE AND BINDER (3¼″ & VAR)
3. EXISTING HMA SHOULDERS
4. EXISTING STABILIZED SUB-BASE, 4″
5. HMA SURFACE REMOVAL, 3¼″ (DOWN TO EXISTING CRC PAVEMENT)
6. POLY HMA BINDER COURSE, IL-19.0, N90, 3½″
7. POLY HMA SURFACE COURSE, MIX. D, N90, 1½″
8. HMA SURFACE REMOVAL, ½″ (SHOULDERS ONLY)
9. HMA SHOULDERS 2¼″
10. AGGREGATE WEDGE SHOULDERS, TY B
11. EXISTING PIPE UNDERDRAINS (TO REMAIN IN PLACE - TYP)

* MATCH EXIST SLOPES

** THE DEPTH OF HMA SURFACE REMOVAL WILL VARY BENEATH OVERPASSES AND ADJACENT AREAS

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TYPICAL SECTION I-24#3
I-24 EAST BOUND & WEST BOUND LANES

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

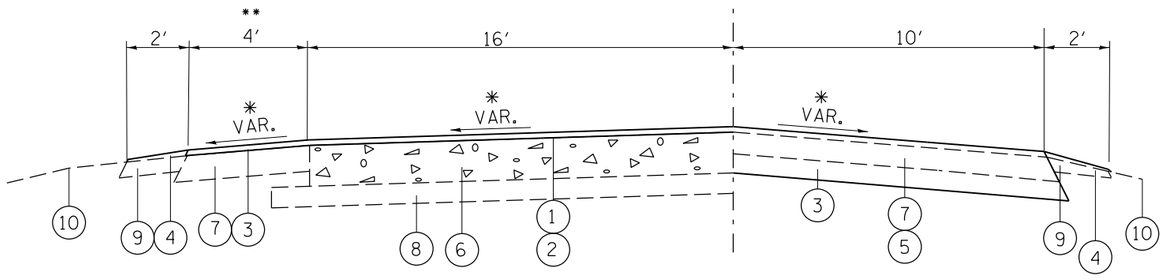
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
24	64(1,2,2-1,3-1,3)RS-2	MASSAC	263	21
		CONTRACT NO. 78606		
		ILLINOIS	FED. AID PROJECT	

TYPICAL SECTION

BIG BAY INTERCHANGE RAMPS

DRAWINGS NOT TO SCALE

℄
RAMP
(LOOKING IN DIRECTION OF TRAVEL)



RAMP A, WB ENTRANCE: STA 0+11 TO STA 10+00
RAMP B, WB EXIT: STA 1+00 TO STA 16+54
RAMP C, EB ENTRANCE: STA 0+11 TO STA 12+50
RAMP D, EB EXIT: STA 2+50 TO STA 16+38.5

SEE PAVEMENT AND SHOULDER TRANSITION DETAILS
FOR NORTH RAMP BRIDGES 064-0037 & 064-0038

(1) PROP POLY HMA BINDER COURSE, IL-19.5FG, N90, 1¼″
(2) PROP POLY HMA SURFACE COURSE, MIX D, N90, 1½″
(3) PROP PCC SHOULDERS, 10¾″
(4) PROP AGG WEDGE SHOULDERS
(5) PROP PAVED SHOULDER REMOVAL

(6) EXIST 8″ P.C.C. PAVEMENT
(7) EXIST BITUMINOUS SHOULDERS
(8) EXIST 4″ AGGREGATE SUB-BASE
(9) EXIST AGG SHOULDER
(10) EXIST GROUNDLINE

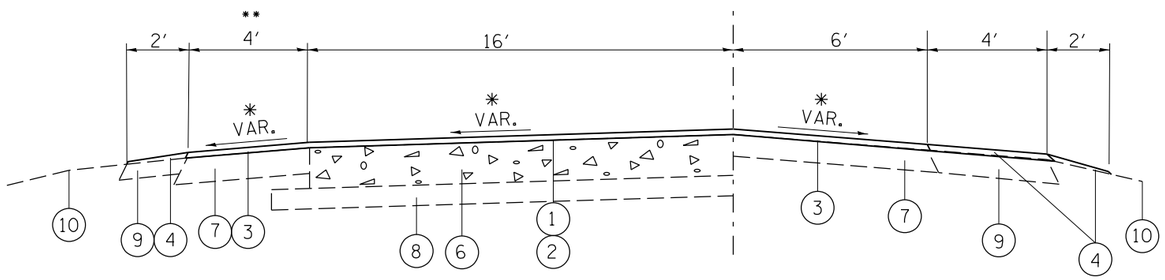
* MATCH EXISTING SLOPES
** WIDTH MAY VARY

TYPICAL SECTION

US 45 INTERCHANGE RAMPS

DRAWING NOT TO SCALE

℄
RAMP
(LOOKING IN DIRECTION OF TRAVEL)



RAMP A, WB ENTRANCE: STA 1+19 TO STA 12+86
RAMP B, WB EXIT: STA 7+65 TO STA 20+50
RAMP C, EB ENTRANCE: STA 1+63 TO STA 13+17
RAMP D, EB EXIT: STA 7+75 TO STA 19+00

(1) PROP POLY HMA BINDER COURSE, IL-19.5FG, N90, 1¼″
(2) PROP POLY HMA SURFACE COURSE, MIX D, N90, 1½″
(3) HMA SURFACE REMOVAL, ½″ (SHOULDERS ONLY)
PROP HMA SHOULDERS, 3¼″ (SEE MIX REQ'S SHT 5)
(4) PROP AGG WEDGE SHOULDERS

(6) EXIST 8″ P.C.C. PAVEMENT
(7) EXIST BITUMINOUS SHOULDERS
(8) EXIST 4″ AGGREGATE SUB-BASE
(9) EXIST AGG SHOULDER
(10) EXIST GROUNDLINE

* MATCH EXISTING SLOPES
** WIDTH MAY VARY

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS - RAMPS
NEW COLUMBIA & METROPOLIS INTERCHANGES

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
24	64(1,2,2-1,3-1,3)RS-2	MASSAC	263	22
		CONTRACT NO. 78606		
		ILLINOIS	FED. AID PROJECT	

SCHEDULE FOR I-24 HMA SURFACE REMOVAL - EAST BOUND LANES

FAI-24 - Mainline		COMMENTS	SECTION LENGTH (INFO ONLY)	HMA SURF REMOVAL 3 1/4" (PAVEMENT)	HMA SURF REMOVAL 4 1/4" (PAVEMENT)	HMA SURF REMOVAL 1" (SHOULDERS)	HMA SURF REMOVAL 3/4" (SHOULDERS)	HMA SURF REMOVAL 1/2" (SHOULDERS)	HMA SURF REMOVAL 1 1/2" (PVMT & SHLD)
	MP		FEET	SQ YD	SQ YD	SQ YD	SQ YD	SQ YD	SQ YD
I-24 EB Lanes									
RURAL 456+69.50 BK		Improvement Begins							
EQ STA 456+69.50 BK = STA 50+54.47 AH	23.878	County Line							
STA 50+54.47 TO STA 95+85.00			4530.53	12301.7		8054.3			
STA 95+85.00 TO STA 95+85.00	24.736	Overpass - SN 064-0013							
STA 95+85.00 TO STA 96+62.00			77.00	209.1		136.9			
STA 96+62.00 TO STA 184+12.32			8750.32		23860.8		15556.1		
STA 184+12.32 TO STA 190+72.54		EB Exit Ramp Departure Area	660.22		1780.5		440.1		
STA 190+72.54 TO STA 200+65.91			993.37		2708.8		1766.0		
STA 200+65.91 TO STA 201+16.37		Connector Pvmt & Approach Slab	50.46						
STA 201+16.37 TO STA 202+08.62	26.739	Bridge Omission - SN 064-0015	92.25						
STA 202+08.62 TO STA 202+61.58		Approach Slab & Connector Pvmt	52.96						
STA 202+61.58 TO STA 204+12.00			150.42		410.2		267.4		
STA 204+12.00 TO STA 204+12.00	26.787	Overpass - SN 064-0016 Big Bay							
STA 204+12.00 TO STA 217+12.00	26.910		1300.00		3544.9		2311.1		
STA 217+12.00 TO STA 218+80.24	27.049		168.24	456.8		299.1			
STA 218+80.24 TO STA 230+25.50		EB Entrance Ramp Merge Area	1145.26	3081.9		763.5			
STA 230+25.50 TO STA 253+33.57			2308.07	6267.1		4103.2			
STA 253+33.57 TO STA 253+53.07		Approach Slab	19.50	52.9		34.7			???
STA 253+53.07 TO STA 255+03.90	27.737	Bridge Omission - SN 064-0018	150.83						
STA 255+03.90 TO STA 255+23.40		Approach Slab	19.50	52.9		34.7			???
STA 255+23.40 TO STA 298+95.00			4371.60	11870.2		7771.7			
STA 298+95.00 TO STA 298+95.00	28.583	Overpass - SN 064-0019							
STA 298+95.00 TO STA 301+81.06			286.06	776.7		508.6			
EQ STA 301+81.06 BK = STA 301+86.33 AH	28.637								
STA 301+86.33 TO STA 328+31.71			2645.38	7183.0		4702.9			
STA 328+31.71 TO STA 328+84.92		Connector Pvmt & Approach Slab	53.21						
STA 328+84.92 TO STA 330+73.00	29.166	Bridge Omission - SN 064-0021	188.08						
STA 330+73.00 TO STA 331+29.35		Approach Slab & Connector Pvmt	56.35						
STA 331+29.35 TO STA 417+07.71			8578.36	23292.7		15250.4			
EQ STA 417+07.71 BK = STA 417+03.53 AH	30.819								
STA 417+03.53 TO STA 418+15.00			111.47	302.7		198.2			
STA 418+15.00 TO STA 418+15.00	30.840	Overpass - SN 064-0022							
STA 418+15.00 TO STA 446+93.78			2878.78	7816.7		5117.8			
EQ STA 446+93.78 BK = STA 32+66.19 AH	31.385								
STA 32+66.19 TO STA 93+66.61			6100.42	16564.4		10845.2			
STA 93+66.61 TO STA 94+17.08		Connector Pvmt & Approach Slab	50.47						
STA 94+17.08 TO STA 95+73.91	32.565	Bridge Omission - SN 064-0024	156.83						
STA 95+73.91 TO STA 96+26.88		Approach Slab & Connector Pvmt	52.97						
STA 96+26.88 TO STA 138+63.75			4236.87	11504.3		7532.2			
STA 138+63.75 TO STA 139+09.68		Connector Pvmt & Approach Slab	45.93						
STA 139+09.68 TO STA 140+28.18	33.412	Bridge Omission - SN 064-0026	118.50						
STA 140+28.18 TO STA 140+76.29		Approach Slab & Connector Pvmt	48.11						
STA 140+76.29 TO STA 239+39.48			9863.19	26781.4		17534.6			
STA 239+39.48 TO STA 239+87.16		Connector Pvmt & Approach Slab	47.68						
STA 239+87.16 TO STA 241+17.66	35.322	Bridge Omission - SN 064-0045	130.50						
STA 241+17.66 TO STA 241+63.78		Approach Slab & Connector Pvmt	46.12						
STA 241+63.78 TO STA 280+00.00			3836.22	10416.5		6820.0			
STA 280+00.00 TO STA 280+00.00	36.070	**RURAL to URBAN**							

CONTINUED NEXT SHEET

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

HMA SURFACE REMOVAL
EAST BOUND LANES

SCALE: | SHEET 1 OF 6 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
24	64(1,2,2-1,3-1,3)RS-2	MASSAC	263	23
		CONTRACT NO. 78606		
	ILLINOIS	FED. AID PROJECT		

SCHEDULE FOR I-24 HMA SURFACE REMOVAL - EAST BOUND LANES

FAI-24 - Mainline			MP	COMMENTS	SECTION LENGTH (INFO ONLY)	HMA SURF REMOVAL 3 1/4" (PAVEMENT)	HMA SURF REMOVAL 4 1/4" (PAVEMENT)	HMA SURF REMOVAL 1" (SHOULDERS)	HMA SURF REMOVAL 3/4" (SHOULDERS)	HMA SURF REMOVAL 1/2" (SHOULDERS)	HMA SURF REMOVAL 1 1/2" (PVMT & SHLD)
					FEET	SQ YD	SQ YD	SQ YD	SQ YD	SQ YD	SQ YD
I-24 EB Lanes											
STA 280+00.00	TO STA	280+00.00	36.070	RURAL to URBAN							
STA 280+00.00	TO STA	331+41.00			5141.00	13959.3		9139.6			
STA 331+41.00	TO STA	338+26.50		EB Exit Ramp Departure Area	685.50	1844.7		457.0			
STA 338+26.50	TO STA	350+00.36			1173.86	3187.4		2086.9			
STA 350+00.36	TO STA	350+00.36	37.395	Overpass - SN 064-0029 - US 45							
STA 350+00.36	TO STA	361+00.00	37.500		1099.64	2985.8		1954.9			
STA 361+00.00	TO STA	361+62.72			62.72	171.0				111.5	
STA 361+62.72	TO STA	372+56.63		EB Entrance Ramp Merge Area	1093.91	2950.0				729.3	
STA 372+56.63	TO STA	400+07.11			2750.48	7500.1				4889.7	
STA 400+07.11	TO STA	400+46.61		Connector Pvmt & Approach Slab	39.50						
STA 400+46.61	TO STA	401+58.44	38.362	Bridge Omission - SN 064-0030	111.83						
STA 401+58.44	TO STA	401+97.94		Approach Slab & Connector Pvmt	39.50						
STA 401+97.94	TO STA	412+17.42			1019.48	2780.0				1812.4	
STA 412+17.42	TO STA	412+56.92		Connector Pvmt & Approach Slab	39.50						
STA 412+56.92	TO STA	413+97.57	38.594	Bridge Omission - SN 064-0032	140.65						
STA 413+97.57	TO STA	414+37.07		Approach Slab & Connector Pvmt	39.50						
STA 414+37.07	TO STA	416+40.09			203.02	553.6				360.9	
STA 416+40.09	TO STA	416+84.26		Connector Pvmt & Approach Slab	44.17						
STA 416+84.26	TO STA	417+87.84	38.671	Bridge Omission - SN 064-0034	103.58						
STA 417+87.84	TO STA	418+33.58		Approach Slab & Connector Pvmt	45.74						
STA 418+33.58	TO STA	427+34.85			901.27	2457.6				1602.3	
STA 427+34.85	TO STA	427+98.35		Approach Slab & Bridge Cell A	63.50	173.2				112.9	170.2
	STA	427+98.35	38.872	Resurfacing Ends - Near BK ABUT							
				EB LANES TOTALS		177494	32305	103346	20341	9619	170

EB LANES TOTALS - RURAL	138931	32305	89708	20341	0	0
EB LANES TOTALS - URBAN	38563	0	13638	0	9619	170
EB LANES TOTALS	177494	32305	103346	20341	9619	170

FOR ADDITIONAL HMA SURFACE REMOVAL QUANTITIES, SEE SCHEDULES FOR I-24 HMA SURFACE REMOVAL - WEST BOUND LANES & I-24 HMA SURFACE REMOVAL - INTERCHANGE RAMPS

SCHEDULE FOR I-24 HMA SURFACE REMOVAL - WEST BOUND LANES

FAI-24 - Mainline			COMMENTS	SECTION LENGTH (INFO ONLY)	HMA SURF REMOVAL 3 1/4" (PAVEMENT)	HMA SURF REMOVAL 4 1/4" (PAVEMENT)	HMA SURF REMOVAL 1" (SHOULDERS)	HMA SURF REMOVAL 3/4" (SHOULDERS)	HMA SURF REMOVAL 1/2" (SHOULDERS)	HMA SURF REMOVAL 1 1/2" (PVMT & SHLD)
	MP			FEET	SQ YD	SQ YD	SQ YD	SQ YD	SQ YD	SQ YD
I-24 WB Lanes										
RURAL 456+69.50 BK			Improvement Begins							
EQ STA 456+69.50 BK = STA 50+54.47 AH	23.878		County Line							
STA 50+54.47 TO STA 95+85.00				4530.53	12301.7		8054.3			
STA 95+85.00 TO STA 95+85.00	24.736		Overpass - SN 064-0013							
STA 95+85.00 TO STA 179+18.00				8333.00	22626.5		14814.2			
STA 179+18.00 TO STA 180+11.84				93.84		255.9		166.8		
STA 180+11.84 TO STA 192+00.80			WB Entrance Ramp Merge Area	1188.96		3206.3		792.6		
STA 192+00.80 TO STA 199+98.43				797.63		2175.0		1418.0		
STA 199+98.43 TO STA 200+51.39			Connector Pvmt & Approach Slab	52.96						
STA 200+51.39 TO STA 201+43.64	26.727		Bridge Omission - SN 064-0014	92.25						
STA 201+43.64 TO STA 201+94.10			Approach Slab & Connector Pvmt	50.46						
STA 201+94.10 TO STA 204+12.00				217.90		594.2		387.4		
STA 204+12.00 TO STA 204+12.00	26.787		Overpass - SN 064-0016 Big Bay							
STA 204+12.00 TO STA 217+12.00				1300.00		3544.9		2311.1		
STA 217+12.00 TO STA 217+93.17				81.17	220.4		144.3			
STA 217+93.17 TO STA 224+52.83			WB Exit Ramp Departure Area	659.66	1775.1		439.8			
STA 224+52.83 TO STA 252+36.59				2783.76	7558.7		4948.9			
STA 252+36.59 TO STA 252+56.09			Approach	19.50	52.9		34.7			???
STA 252+56.09 TO STA 254+06.92	27.718		Bridge Omission - SN 064-0017	150.83						
STA 254+06.92 TO STA 254+26.42			Approach	19.50	52.9		34.7			???
STA 254+26.42 TO STA 298+95.00				4468.58	12133.5		7944.1			
STA 298+95.00 TO STA 298+95.00	28.583		Overpass - SN 064-0019							
STA 298+95.00 TO STA 301+81.06				286.06	776.7		508.6			
EQ STA 301+81.06 BK = STA 1301+73.45 AH	28.637									
STA 1301+73.45 TO STA 1326+71.49				2498.04	6782.9		4441.0			
STA 1326+71.49 TO STA 1327+24.69			Connector Pvmt & Approach Slab	53.20						
STA 1327+24.69 TO STA 1329+03.68	29.137		Bridge Omission - SN 064-0020	178.99						
STA 1329+03.68 TO STA 1329+54.81			Approach Slab & Connector Pvmt	51.13						
STA 1329+54.81 TO STA 1417+84.96				8830.15	23976.4		15698.0			
EQ STA 1417+84.96 BK = STA 417+03.53 AH	30.836									
STA 417+03.53 TO STA 418+15.00				111.47	302.7		198.2			
STA 418+15.00 TO STA 418+15.00	**30.840**		Overpass - SN 064-0022							
STA 418+15.00 TO STA 446+93.78				2878.78	7816.7		5117.8			
EQ STA 446+93.78 BK = STA 32+66.19 AH	31.385									
STA 32+66.19 TO STA 92+99.12				6032.93	16381.1		10725.2			
STA 92+99.12 TO STA 93+52.09			Connector Pvmt & Approach Slab	52.97						
STA 93+52.09 TO STA 95+08.92	32.553		Bridge Omission - SN 064-0023	156.83						
STA 95+08.92 TO STA 95+55.12			Approach Slab & Connector Pvmt	46.20						
STA 95+55.12 TO STA 138+23.71				4268.59	11590.4		7588.6			
STA 138+23.71 TO STA 138+71.82			Connector Pvmt & Approach Slab	48.11						
STA 138+71.82 TO STA 139+90.32	33.405		Bridge Omission - SN 064-0025	118.50						
STA 139+90.32 TO STA 140+36.25			Approach Slab & Connector Pvmt	45.93						
STA 140+36.25 TO STA 239+94.31				9958.06	27039.0		17703.2			
STA 239+94.31 TO STA 240+39.14			Connector Pvmt & Approach Slab	44.83						
STA 240+39.14 TO STA 241+69.64	35.332		Bridge Omission - SN 064-0046	130.50						
STA 241+69.64 TO STA 242+18.11			Approach Slab & Connector Pvmt	48.47						
STA 242+18.11 TO STA 280+00.00				3781.89	10268.9		6723.4			
STA 280+00.00 TO STA 280+00.00	36.070		**RURAL to URBAN**							

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		DRAWN -	REVISED -
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Default	PLOT DATE = 10/21/2020	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

HMA SURFACE REMOVAL
WEST BOUND LANES

SCALE: | SHEET 3 OF 6 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
24	64(1,2,2-1,3-1,3)RS-2	MASSAC	263	25
		CONTRACT NO. 78606		
	ILLINOIS FED. AID PROJECT			

SCHEDULE FOR I-24 HMA SURFACE REMOVAL - WEST BOUND LANES

FAI-24 - Mainline				COMMENTS	SECTION LENGTH (INFO ONLY)	HMA SURF REMOVAL 3 1/4" (PAVEMENT)	HMA SURF REMOVAL 4 1/4" (PAVEMENT)	HMA SURF REMOVAL 1" (SHOULDERS)	HMA SURF REMOVAL 3/4" (SHOULDERS)	HMA SURF REMOVAL 1/2" (SHOULDERS)	HMA SURF REMOVAL 1 1/2" (PVMT & SHLD)
			MP		FEET	SQ YD	SQ YD	SQ YD	SQ YD	SQ YD	SQ YD
I-24 WB Lanes											
STA 280+00.00	TO STA	280+00.00	36.070	RURAL to URBAN							
STA 280+00.00	TO STA	327+66.37			4766.37	12942.1		8473.5			
STA 327+66.37	TO STA	338+66.70		WB Entrance Ramp Merge Area	1100.33	2961.0		733.6			
STA 338+66.70	TO STA	350+00.36			1133.66	3078.2		2015.4			
STA 350+00.36	TO STA	350+00.36	37.396	Overpass - SN 064-0029 - US 45							
STA 350+00.36	TO STA	361+00.00	37.500		1099.64	2985.8		1954.9			
STA 361+00.00	TO STA	363+43.80			243.80	664.8				433.4	
STA 363+43.80	TO STA	370+27.20		WB Exit Ramp Departure Area	683.40	1843.0				455.6	
STA 370+27.20	TO STA	400+07.40			2980.20	8126.5				5298.1	
STA 400+07.40	TO STA	400+46.91		Connector Pvmt & Approach Slab	39.51						
STA 400+46.91	TO STA	401+58.74	38.362	Bridge Omission - SN 064-0031	111.83						
STA 401+58.74	TO STA	401+98.24		Approach Slab & Connector Pvmt	39.50						
STA 401+98.24	TO STA	412+15.51			1017.27	2773.9				1808.5	
STA 412+15.51	TO STA	412+55.01		Connector Pvmt & Approach Slab	39.50						
STA 412+55.01	TO STA	413+94.67	38.593	Bridge Omission - SN 064-0033	139.66						
STA 413+94.67	TO STA	414+34.17		Approach Slab & Connector Pvmt	39.50						
STA 414+34.17	TO STA	416+32.81			198.64	541.7				353.1	
STA 416+32.81	TO STA	416+77.10		Connector Pvmt & Approach Slab	44.29						
STA 416+77.10	TO STA	417+81.02	38.670	Bridge Omission - SN 064-0034	103.92						
STA 417+81.02	TO STA	418+26.18		Approach Slab & Connector Pvmt	45.16						
STA 418+26.18	TO STA	427+34.85			908.67	2477.8				1615.4	
STA 427+34.85	TO STA	427+98.35		Approach Slab & Bridge Cell A	63.50	173.2				112.9	170.2
		STA 427+98.35	38.872	Resurfacing Ends - Near BK ABUT							
				WB LANES TOTALS		200225	9776	118296	5076	10077	170

WB LANES TOTALS - RURAL	161657	9776	105119	5076	0	0
WB LANES TOTALS - URBAN	38568	0	13177	0	10077	170
WB LANES TOTALS	200225	9776	118296	5076	10077	170

FOR ADDITIONAL HMA SURFACE REMOVAL QUANTITIES, SEE SCHEDULES FOR I-24 HMA SURFACE REMOVAL - EAST BOUND LANES & I-24 HMA SURFACE REMOVAL - INTERCHANGE RAMPS

FILE NAME = pw:\\planroom.dot.illinois.gov:PWIDOT\Documents\IDOT Offices\District 9\Projects\78606\CADData\CADsheets\d978606-sht_BR.dgn	USER NAME = leftwichdl	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	HMA SURFACE REMOVAL WEST BOUND LANES
		DRAWN -	REVISED -		
	PLOT SCALE = 100.0000 ' / In.	CHECKED -	REVISED -		
Default	PLOT DATE = 10/21/2020	DATE -	REVISED -		SCALE: SHEET 4 OF 6 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
24	64(1,2,2-1,3-1,3)RS-2	MASSAC	263	26
		CONTRACT NO. 78606		
	ILLINOIS	FED. AID PROJECT		

SCHEDULE FOR I-24 HMA SURFACE REMOVAL - INTERCHANGE RAMPS

FAI-24 - Ramps	MP	COMMENTS	SECTION LENGTH (INFO ONLY)	HMA SURF REMOVAL 3 1/4" (PAVEMENT)	HMA SURF REMOVAL 4 1/4" (PAVEMENT)	HMA SURF REMOVAL 1" (SHOULDERS)	HMA SURF REMOVAL 3/4" (SHOULDERS)	HMA SURF REMOVAL 1/2" (SHOULDERS)	HMA SURF REMOVAL 1 1/2" (PVMT/SHLD)	PCC SURF REM BUTT JOINT
			FEET	SQ YD	SQ YD	SQ YD	SQ YD	SQ YD	SQ YD	SQ YD
BIG BAY INTERCHANGE - RURAL										
RAMP A Begins 0+11.00		WB Entrance Ramp (Big Bay Rd)								
STA 0+11.00 TO STA 1+02.89		CADD Measured Areas	91.89					254.4		435.0
STA 1+02.89 TO STA 2+60.00		Computed Areas (i.e. L x W)	157.11					69.8		
STA 2+60.00 TO STA 3+61.30		HMA Matt Area	101.30					45.0	180.1	
STA 3+61.30 TO STA 4+41.54		BRIDGE OMISSION SN 064-0037	80.24							
STA 4+41.54 TO STA 5+42.00		HMA Matt Area	100.46					44.6	178.6	
STA 5+42.00 TO STA 10+00.00		Computed Areas (i.e. L x W)	458.00					203.6		
STA 10+00.00 TO STA 11+50.00		Computed Areas (i.e. L x W)	150.00					66.7		
STA 11+50.00 BK = STA 192+00.80 AH		Stationing Switch								
STA 192+00.80 TO STA 180+11.84		CADD Measured Areas	1188.96		1527.8		1542.8			
RAMP B Begins 224+52.83		WB Exit Ramp (Big Bay Rd)								
STA 224+52.83 TO STA 217+93.17		CADD Measured Areas	659.66	939.4		1160.0				
STA 217+93.17 BK = STA 0+00.00 AH		Stationing Switch								
STA 0+00.00 TO STA 1+00.00		Computed Areas (i.e. L x W)	100.00					44.4		
STA 1+00.00 TO STA 15+51.64		Computed Areas (i.e. L x W)	1451.64					645.2		
STA 15+51.64 TO STA 16+54.00		CADD Measured Areas	102.36					240.6		483.9
RAMP C Begins 0+11.00		EB Entrance Ramp (Big Bay Rd)								
STA 0+11.00 TO STA 1+05.00		CADD Measured Areas	94.00					237.2		420.0
STA 1+05.00 TO STA 12+50.00		Computed Areas (i.e. L x W)	1145.00					508.9		
STA 12+50.00 TO STA 13+67.17		Computed Areas (i.e. L x W)	117.17					52.1		
STA 13+67.17 BK = STA 218+80.24 AH		Stationing Switch								
STA 218+80.24 TO STA 230+25.50		CADD Measured Areas	1145.26	1449.4		1466.1				
RAMP D Begins 184+12.32		EB Entrance Ramp (Big Bay Rd)								
STA 184+12.32 TO STA 190+72.54		CADD Measured Areas	660.22		947.2		1125.0			
STA 190+72.54 BK = STA 0+00.00 AH		Stationing Switch								
STA 0+00.00 TO STA 2+50.00		Computed Areas (i.e. L x W)	250.00					111.1		
STA 2+50.00 TO STA 12+45.00		Computed Areas (i.e. L x W)	995.00					442.2		
STA 12+45.00 TO STA 13+46.60		HMA Matt Area	101.60					45.2	180.6	
STA 13+46.60 TO STA 14+75.00		BRIDGE OMISSION SN064-0038	128.40							
STA 14+75.00 TO STA 15+47.00		HMA Matt Area	72.00					107.2	136.7	
STA 15+47.00 TO STA 16+38.50		CADD Measured Areas	91.50					268.3		475.6
MAINLINE CROSSOVERS		See Crossover Schedule				885.0				

CONTINUED NEXT SHEET

SCHEDULE FOR I-24 HMA SURFACE REMOVAL - INTERCHANGE RAMPS

FAI-24 - Ramps	MP	COMMENTS	SECTION LENGTH (INFO ONLY)	HMA SURF REMOVAL 3 1/4" (PAVEMENT)	HMA SURF REMOVAL 4 1/4" (PAVEMENT)	HMA SURF REMOVAL 1" (SHOULDERS)	HMA SURF REMOVAL 3/4" (SHOULDERS)	HMA SURF REMOVAL 1/2" (SHOULDERS)	HMA SURF REMOVAL 1 1/2" (PVMT & SHLD)	PCC SURF REM BUTT JOINT
			FEET	SQ YD	SQ YD	SQ YD	SQ YD	SQ YD	SQ YD	SQ YD
US 45 INTERCHANGE - URBAN										
RAMP A Begins 0+33.00		WB Entrance Ramp (US 45)								
STA 0+33.00 TO STA 1+19.00		By Others	86.00					150.6		
STA 1+19.00 TO STA 12+86.00		Computed Areas (i.e. L x W)	1167.00					1296.7		
STA 12+86.00 TO STA 13+87.42		Computed Areas (i.e. L x W)	101.42					112.7		
STA 13+87.42 BK = STA 338+66.70 AH		Stationing Switch								
STA 338+66.70 TO STA 327+66.37		CADD Measured Areas	1100.33	1298.9		1409.4				
RAMP B Begins 370+27.20		WB Exit Ramp (US 45)								
STA 370+27.20 = STA 363+43.80		CADD Measured Areas	683.40	942.2				1173.3		
STA 363+43.80 BK TO STA 6+74.40 AH		Stationing Switch								
STA 6+74.40 TO STA 7+65.00		Computed Areas (i.e. L x W)	90.60					100.7		
STA 7+65.00 TO STA 20+50.00		Computed Areas (i.e. L x W)	1285.00					1427.8		
STA 20+50.00 = STA 21+73.05		By Others	123.05					181.7		
RAMP C Begins 0+33.00		EB Entrance Ramp (US 45)								
STA 0+33.00 TO STA 1+63.00		By Others	130.00					207.8		
STA 1+63.00 TO STA 13+17.00		Computed Areas (i.e. L x W)	1154.00					1282.2		
STA 13+17.00 TO STA 14+16.91		Computed Areas (i.e. L x W)	99.91					111.0		
STA 14+16.91 BK = STA 361+62.72 AH		Stationing Switch								
STA 361+62.72 TO STA 372+56.63		CADD Measured Areas	1093.91	1357.2				1336.7		
RAMP D Begins 331+41.00		EB Entrance Ramp (US 45)								
STA 331+41.00 TO STA 338+26.50		CADD Measured Areas	685.50	924.4		1153.3				
STA 338+26.50 BK = STA 6+82.00 AH		Stationing Switch								
STA 6+82.00 TO STA 7+75.00		Computed Areas (i.e. L x W)	93.00					103.3		
STA 7+75.00 TO STA 19+00.00		Computed Areas (i.e. L x W)	1125.00					1250.0		
STA 19+00.00 TO STA 20+00.80		By Others	100.80					214.4		
MAINLINE CROSSOVERS		See Crossover Schedule				0.0				
		INTERCHANGE RAMP TOTALS		6912	2475	6074	2668	12335	676	1814

RAMP TOTALS - RURAL	2389	2475	3511	2668	3387	676	1814
RAMP TOTALS - URBAN	4523	0	2563	0	8949	0	0
RAMP TOTALS	6912	2475	6074	2668	12335	676	1814

I-24 Project Totals - Rural	302977	44556	198338	28085	3387	676	1814
I-24 Project Totals - Urban	81653	0	29379	0	28645	340	0
Project Totals	384630	44556	227716	28085	32031	1016	1814

FOR ADDITIONAL HMA SURFACE REMOVAL QUANTITIES, SEE SCHEDULES FOR I-24 HMA SURFACE REMOVAL - EAST BOUND LANES & I-24 HMA SURFACE REMOVAL - WEST BOUND LANES

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		DRAWN -	REVISED -
	PLOT SCALE = 100.0000 ' / In.	CHECKED -	REVISED -
Default	PLOT DATE = 10/21/2020	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

HMA SURFACE REMOVAL
METROPOLIS INTERCHANGE

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
24	64(1,2,2-1,3-1,3)RS-2	MASSAC	263	28
		CONTRACT NO. 78606		
	ILLINOIS FED. AID PROJECT			

SCHEDULE FOR I-24 RESURFACING - EAST BOUND LANES

FAI-24 - Mainline	MP	COMMENTS	SECTION LENGTH (INFO ONLY)	POLY HMA BIND CSE IL-19.0 N90		POLY HMA BIND CSE IL-9.5FG N90	POLY STONE MATRIX HMA SURF MIX"E" N80	HOT-MIX ASPHALT SHOULDERS			AGG SHLD WEDGE	POLY BIT MATLS TACK CT	MATERIAL TRANSFER DEVISE	LONG JOINT SEALENT	TEMP RAMPS
				2¼"	3"	1¼"	1½" & 2"	1½"	2¼"	3¼"			(BNDR+SURF)		
	MP		FEET	TON	TON	TON	TON	TON	TON	TON	TON	POUND	TON	FOOT	SQ YD
I-24 EB Lanes															
RURAL 456+69.50 BK		Improvement Begins													
EQ STA 456+69.50 BK = STA 50+54.47 AH	23.88	County Line													84
STA 50+54.47 TO STA 95+85.00			4530.53	1550.0			1020.1	676.6			28.7	11893	2570.1	4530.5	
STA 95+85.00 TO STA 95+85.00	24.74	Overpass - SN 064-0013													
STA 95+85.00 TO STA 96+62.00			77.00	26.3			17.3	11.5			0.5	202	43.7	77.0	
STA 96+62.00 TO STA 184+12.32			8750.32		4008.6		2627.0	1306.7			69.2	23015	6635.6	8750.3	
STA 184+12.32 TO STA 190+72.54		**EB Exit Ramp Departure Area**	660.22		299.1		198.2	37.0			2.6	1397	497.3	1320.4	
STA 190+72.54 TO STA 200+65.91			993.37		455.1		298.2	148.3			7.9	2613	753.3	993.4	
STA 200+65.91 TO STA 201+16.37		Connector Pvmt & Approach Slab	50.46												84
STA 201+16.37 TO STA 202+08.62	26.74	Bridge Omission - SN 064-0015	92.25												
STA 202+08.62 TO STA 202+61.58		Approach Slab & Connector Pvmt	52.96												84
STA 202+61.58 TO STA 204+12.00			150.42		68.9		45.2	22.5			1.2	396	114.1	150.4	
STA 204+12.00 TO STA 204+12.00	26.79	Overpass - SN 064-0016 Big Bay	0.00												
STA 204+12.00 TO STA 217+12.00	26.91		1300.00		595.5		390.3	194.1			10.3	3419	985.8	1300.0	
STA 217+12.00 TO STA 218+80.24	27.05		168.24	57.6			37.9	25.1			1.1	442	95.4	168.2	
STA 218+80.24 TO STA 230+25.50		**EB Entrance Ramp Merge Area**	1145.26	388.3			257.9	64.1			3.6	2421	646.2	2290.5	
STA 230+25.50 TO STA 253+33.57			2308.07	789.7			519.7	344.7			14.6	6059	1309.4	2308.1	
STA 253+33.57 TO STA 253+53.07		Approach Slab	19.50	6.7			4.4	2.9			0.1	51	11.1	19.5	102
STA 253+53.07 TO STA 255+03.90	27.74	Bridge Omission - SN 064-0018	150.83												
STA 255+03.90 TO STA 255+23.40		Approach Slab	19.50	6.7			4.4	2.9			0.1	51	11.1	19.5	102
STA 255+23.40 TO STA 298+95.00			4371.60	1495.6			984.3	652.8			27.7	11475	2480.0	4371.6	
STA 298+95.00 TO STA 298+95.00	28.58	Overpass - SN 064-0019													
STA 298+95.00 TO STA 301+81.06			286.06	97.9			64.4	42.7			1.8	751	162.3	286.1	
EQ STA 301+81.06 BK = STA 301+86.33 AH	28.64														
STA 301+86.33 TO STA 328+31.71			2645.38	905.1			595.7	395.0			16.7	6944	1500.7	2645.4	
STA 328+31.71 TO STA 328+84.92		Connector Pvmt & Approach Slab	53.21												84
STA 328+84.92 TO STA 330+73.00	29.17	Bridge Omission - SN 064-0021	188.08												
STA 330+73.00 TO STA 331+29.35		Approach Slab & Connector Pvmt	56.35												84
STA 331+29.35 TO STA 417+07.71			8578.36	2934.9			1931.6	1281.0			54.3	22518	4866.4	8578.4	
EQ STA 417+07.71 BK = STA 417+03.53 AH	30.82														
STA 417+03.53 TO STA 418+15.00			111.47	38.1			25.1	16.6			0.7	293	63.2	111.5	
STA 418+15.00 TO STA 418+15.00	30.84	Overpass - SN 064-0022													
STA 418+15.00 TO STA 446+93.78			2878.78	984.9			648.2	429.9			18.2	7557	1633.1	2878.8	
EQ STA 446+93.78 BK = STA 32+66.19 AH	31.39														
STA 32+66.19 TO STA 93+66.61			6100.42	2087.1			1373.6	911.0			38.6	16014	3460.7	6100.4	
STA 93+66.61 TO STA 94+17.08		Connector Pvmt & Approach Slab	50.47												84
STA 94+17.08 TO STA 95+73.91	32.57	Bridge Omission - SN 064-0024	156.83												
STA 95+73.91 TO STA 96+26.88		Approach Slab & Connector Pvmt	52.97												84
STA 96+26.88 TO STA 138+63.75			4236.87	1449.5			954.0	632.7			26.8	11122	2403.5	4236.9	
STA 138+63.75 TO STA 139+09.68		Connector Pvmt & Approach Slab	45.93												84
STA 139+09.68 TO STA 140+28.18	33.41	Bridge Omission - SN 064-0026	118.50												
STA 140+28.18 TO STA 140+76.29		Approach Slab & Connector Pvmt	48.11												84
STA 140+76.29 TO STA 239+39.48			9863.19	3374.5			2220.9	1472.9			62.4	25891	5595.3	9863.2	
STA 239+39.48 TO STA 239+87.16		Connector Pvmt & Approach Slab	47.68												84
STA 239+87.16 TO STA 241+17.66	35.32	Bridge Omission - SN 064-0045	130.50												
STA 241+17.66 TO STA 241+63.78		Approach Slab & Connector Pvmt	46.12												84
STA 241+63.78 TO STA 280+00.00			3836.22	1312.5			863.8	572.9			24.3	10070	2176.3	3836.2	
STA 280+00.00 TO STA 280+00.00	36.07	**RURAL TO URBAN**													

CONTINUED NEXT SHEET

SCHEDULE FOR I-24 RESURFACING - EAST BOUND LANES

FAI-24 - Mainline			COMMENTS	SECTION LENGTH (INFO ONLY)	POLY HMA BIND CSE IL-19.0 N90		POLY HMA BIND CSE IL-9.5FG N90	POLY STONE MATRIX HMA SURF MIX"E" N80	HOT-MIX ASPHALT SHOULDERS			AGG SHLD WEDGE	POLY BIT MATLS TACK CT	MATERIAL TRANSFER DEVISE	LONG JOINT SEALENT	TEMP RAMPS
					2¼"	3"	1¼"	1½" & 2"	1½"	2¼"	3¼"			(BNDR+SURF)		
	MP			FEET	TON	TON	TON	TON	TON	TON	TON	TON	POUND	TON	FOOT	SQ YD
I-24 EB Lanes																
STA 280+00.00 TO STA 280+00.00	36.07		RURAL TO URBAN													
STA 280+00.00 TO STA 331+41.00				5141.00	1758.9			1157.6	767.7			32.5	13495	2916.5	5141.0	
STA 331+41.00 TO STA 338+26.50			EB Exit Ramp Departure Area	685.50	232.4			154.4	38.4			2.2	1449	386.8	1371.0	
STA 338+26.50 TO STA 350+00.36				1173.86	401.6			264.3	175.3			7.4	3081	665.9	1173.9	
STA 350+00.36 TO STA 350+00.36	37.40		Overpass - SN 064-0029 - US 45													
STA 350+00.36 TO STA 361+00.00	37.50			1099.64	376.2			247.6	164.2			7.0	2887	623.8	1099.6	
STA 361+00.00 TO STA 361+62.72				62.72		28.7		18.8		9.4		0.9	165	47.6	62.7	
STA 361+62.72 TO STA 372+56.63			EB Entrance Ramp Merge Area	1093.91		495.6		328.4		61.3		7.8	2315	824.0	2187.8	
STA 372+56.63 TO STA 400+07.11				2750.48		1260.0		825.8		410.7		39.2	7234	2085.8	2750.5	
STA 400+07.11 TO STA 400+46.61			Connector Pvmt & Approach Slab	39.50												84
STA 400+46.61 TO STA 401+58.44	38.36		Bridge Omission - SN 064-0030	111.83												
STA 401+58.44 TO STA 401+97.94			Approach Slab & Connector Pvmt	39.50												84
STA 401+97.94 TO STA 412+17.42				1019.48		467.0		306.1		152.2		14.5	2681	773.1	1019.5	
STA 412+17.42 TO STA 412+56.92			Connector Pvmt & Approach Slab	39.50												84
STA 412+56.92 TO STA 413+97.57	38.59		Bridge Omission - SN 064-0032	140.65												
STA 413+97.57 TO STA 414+37.07			Approach Slab & Connector Pvmt	39.50												84
STA 414+37.07 TO STA 416+40.09				203.02		93.0		61.0		30.3		2.9	534	154.0	203.0	
STA 416+40.09 TO STA 416+84.26			Connector Pvmt & Approach Slab	44.17												84
STA 416+84.26 TO STA 417+87.84	38.67		Bridge Omission - SN 064-0034	103.58												
STA 417+87.84 TO STA 418+33.58			Approach Slab & Connector Pvmt	45.74												84
STA 418+33.58 TO STA 427+34.85				901.27		412.9		270.6		134.6		12.8	2371	683.5	901.3	
STA 427+34.85 TO STA 427+98.35			Approach Slab & Bridge Cell A	63.50				19.1	9.5			0.9	167		63.5	84
STA 427+98.35	38.87		Resurfacing Ends - Near Bk Abut													
EB LANES TOTALS					20274	8185		18736	10399	799	0	539	200974	47176	80810	1724

EB LANES TOTALS - RURAL		17505	5427	0	15082	9244	0	0	411	164594	38015	64836	1133
EB LANES TOTALS - URBAN		2769	2757	0	3654	1155	799	0	128	36380	9161	15974	591
EB LANES TOTALS		20274	8185	0	18736	10399	799	0	539	200974	47176	80810	1724

FOR ADDITIONAL RESURFACING QUANTITIES, SEE SCHEDULES FOR I-24 RESURFACING - WEST BOUND LANES & I-24 RESURFACING - INTERCHANGE RAMPS

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

RESURFACING QUANTITIES
EAST BOUND LANES

SCALE: | SHEET 2 OF 6 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
24	64(1,2,2-1,3-1,3)RS-2	MASSAC	263	30
		CONTRACT NO. 78606		
	ILLINOIS	FED. AID PROJECT		

SCHEDULE FOR I-24 RESURFACING - WEST BOUND LANES

FAI-24 - Mainline			COMMENTS	SECTION LENGTH (INFO ONLY)	POLY HMA BIND CSE IL-19.0 N90		POLY HMA BIND CSE IL-9.5FG N90	POLY STONE MATRIX HMA SURF MIX"E" N80	HOT-MIX ASPHALT SHOULDERS			AGG SHLD WEDGE	POLY BIT MATLS TACK CT	MATERIAL TRANSFER DEVISE	LONG JOINT SEALENT	TEMP RAMPS
					2¼"	3"	1¼"	1½" & 2"	1½"	2¼"	3¾"			(BNDR+SURF)		
	MP			FEET	TON	TON	TON	TON	TON	TON	TON	TON	POUND	TON	FOOT	SQ YD
I-24 WB Lanes																
RURAL 456+69.50 BK			Improvement Begins													
EQ STA 456+69.50 BK = STA 50+54.47 AH	23.92		County Line													84
STA 50+54.47 TO STA 95+85.00				4530.53	1550.0			1020.1	676.6			28.7	11893	2570.1	4530.5	
STA 95+85.00 TO STA 95+85.00	24.78		Overpass - SN 064-0013													
STA 95+85.00 TO STA 179+18.00				8333.00	2850.9			1876.3	1244.4			52.7	21874	4727.3	8333.0	
STA 179+18.00 TO STA 180+11.84				93.84		43.0		28.2	14.0			0.7	247	71.2	93.8	
STA 180+11.84 TO STA 192+00.80			**WB Entrance Ramp Merge Area**	1188.96		538.7		357.0	66.6			4.7	2517	895.6	2377.9	
STA 192+00.80 TO STA 199+98.43				797.63		365.4		239.5	119.1			6.3	2098	604.9	797.6	
STA 199+98.43 TO STA 200+51.39			Connector Pvmt & Approach Slab	52.96					7.9							84
STA 200+51.39 TO STA 201+43.64	26.77		Bridge Omission - SN 064-0014	92.25												
STA 201+43.64 TO STA 201+94.10			Approach Slab & Connector Pvmt	50.46					7.5							84
STA 201+94.10 TO STA 204+12.00				217.90		99.8		65.4	32.5			1.7	573	165.2	217.9	
STA 204+12.00 TO STA 204+12.00	26.83		Overpass - SN 064-0016 Big Bay													
STA 204+12.00 TO STA 217+12.00				1300.00		595.5		390.3	194.1			10.3	3419	985.8	1300.0	
STA 217+12.00 TO STA 217+93.17				81.17	27.8			18.3	12.1			0.5	213	46.0	81.2	
STA 217+93.17 TO STA 224+52.83			**WB Exit Ramp Departure Area**	659.66	223.7			148.5	36.9			2.1	1395	372.2	1319.3	
STA 224+52.83 TO STA 252+36.59				2783.76	952.4			626.8	415.7			17.6	7307	1579.2	2783.8	
STA 252+36.59 TO STA 252+56.09			Approach	19.50	6.7			4.4	2.9			0.1	51	11.1	19.5	102
STA 252+56.09 TO STA 254+06.92	27.76		Bridge Omission - SN 064-0017	150.83												
STA 254+06.92 TO STA 254+26.42			Approach	19.50	6.7			4.4	2.9			0.1	51	11.1	19.5	102
STA 254+26.42 TO STA 298+95.00				4468.58	1528.8			1006.2	667.3			28.3	11730	2535.0	4468.6	
STA 298+95.00 TO STA 298+95.00	28.62		Overpass - SN 064-0019													
STA 298+95.00 TO STA 301+81.06				286.06	97.9			64.4	42.7			1.8	751	162.3	286.1	
EQ STA 301+81.06 BK = STA 1301+73.45 AH	28.68															
STA 1301+73.45 TO STA 1326+71.49				2498.04	854.6			562.5	373.0			15.8	6557	1417.1	2498.0	
STA 1326+71.49 TO STA 1327+24.69			Connector Pvmt & Approach Slab	53.20												84
STA 1327+24.69 TO STA 1329+03.68	29.18		Bridge Omission - SN 064-0020	178.99												
STA 1329+03.68 TO STA 1329+54.81			Approach Slab & Connector Pvmt	51.13												84
STA 1329+54.81 TO STA 1417+84.96				8830.15	3021.0			1988.3	1318.6			55.9	23179	5009.3	8830.1	
EQ STA 1417+84.96 BK = STA 417+03.53 AH	30.88															
STA 417+03.53 TO STA 418+15.00				111.47	38.1			25.1	16.6			0.7	293	63.2	111.5	
STA 418+15.00 TO STA 418+15.00	30.88		Overpass - SN 064-0022													
STA 418+15.00 TO STA 446+93.78				2878.78	984.9			648.2	429.9			18.2	7557	1633.1	2878.8	
EQ STA 446+93.78 BK = STA 32+66.19 AH	31.43															
STA 32+66.19 TO STA 92+99.12				6032.93	2064.0			1358.4	900.9			38.2	15836	3422.4	6032.9	
STA 92+99.12 TO STA 93+52.09			Connector Pvmt & Approach Slab	52.97										0.0		84
STA 93+52.09 TO STA 95+08.92	32.59		Bridge Omission - SN 064-0023	156.83												
STA 95+08.92 TO STA 95+55.12			Approach Slab & Connector Pvmt	46.20										0.0		84
STA 95+55.12 TO STA 138+23.71				4268.59	1460.4			961.1	637.4			27.0	11205	2421.5	4268.6	
STA 138+23.71 TO STA 138+71.82			Connector Pvmt & Approach Slab	48.11												84
STA 138+71.82 TO STA 139+90.32	33.45		Bridge Omission - SN 064-0025	118.50												
STA 139+90.32 TO STA 140+36.25			Approach Slab & Connector Pvmt	45.93												84
STA 140+36.25 TO STA 239+94.31				9958.06	3406.9			2242.2	1487.1			63.0	26140	5649.1	9958.1	
STA 239+94.31 TO STA 240+39.14			Connector Pvmt & Approach Slab	44.83												84
STA 240+39.14 TO STA 241+69.64	35.37		Bridge Omission - SN 064-0028	130.50												
STA 241+69.64 TO STA 242+18.11			Approach Slab & Connector Pvmt	48.47												84
STA 242+18.11 TO STA 280+00.00				3781.89	1293.9			851.6	564.8			23.9	9927	2145.4	3781.9	
STA 280+00.00 TO STA 280+00.00	36.11		**RURAL TO URBAN**													

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

RESURFACING QUANTITIES
WEST BOUND LANES

SCALE: | SHEET 3 OF 6 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
24	64(1,2,2-1,3-1,3)RS-2	MASSAC	263	31
		CONTRACT NO. 78606		
		ILLINOIS FED. AID PROJECT		

SCHEDULE FOR I-24 RESURFACING - WEST BOUND LANES

FAI-24 - Mainline			COMMENTS	SECTION LENGTH (INFO ONLY)	POLY HMA BIND CSE IL-19.0 N90		POLY HMA BIND CSE IL-9.5FG N90	POLY STONE MATRIX HMA SURF MIX"E" N80	HOT-MIX ASPHALT SHOULDERS			AGG SHLD WEDGE	POLY BIT MATLS TACK CT	MATERIAL TRANSFER DEVISE	LONG JOINT SEALENT	TEMP RAMPS
					2¼"	3"	1¼"	1½" & 2"	1½"	2¼"	3¼"			(BNDR+SURF)		
	MP			FEET	TON	TON	TON	TON	TON	TON	TON	TON	POUND	TON	FOOT	SQ YD
I-24 WB Lanes																
STA 280+00.00 TO STA 280+00.00	36.11		RURAL TO URBAN													
STA 280+00.00 TO STA 327+66.37				4766.37	1630.7			1073.2	711.8			30.2	12512	2703.9	4766.4	
STA 327+66.37 TO STA 338+66.70			WB Entrance Ramp Merge Area	1100.33	373.1			247.8	61.6			3.5	2326	620.8	2200.7	
STA 338+66.70 TO STA 350+00.36				1133.66	387.9			255.3	169.3			7.2	2976	643.1	1133.7	
STA 350+00.36 TO STA 350+00.36	37.44		Overpass - SN 064-0029 - US 45													
STA 350+00.36 TO STA 361+00.00	37.54			1099.64	376.2			247.6	164.2			7.0	2887	623.8	1099.6	
STA 361+00.00 TO STA 363+43.80				243.80		111.7		73.2		36.4		3.5	641	184.9	243.8	
STA 363+43.80 TO STA 370+27.20			WB Exit Ramp Departure Area	683.40		309.6		205.2		38.3		4.9	1447	514.8	1366.8	
STA 370+27.20 TO STA 400+07.40				2980.20		1365.3		894.7		445.0		42.4	7839	2260.0	2980.2	
STA 400+07.40 TO STA 400+46.91			Connector Pvmt & Approach Slab	39.51												84
STA 400+46.91 TO STA 401+58.74	38.40		Bridge Omission - SN 064-0030	111.83												
STA 401+58.74 TO STA 401+98.24			Approach Slab & Connector Pvmt	39.50												84
STA 401+98.24 TO STA 412+15.51				1017.27		466.0		305.4		151.9		14.5	2676	771.4	1017.3	
STA 412+15.51 TO STA 412+55.01			Connector Pvmt & Approach Slab	39.50												84
STA 412+55.01 TO STA 413+94.67	38.64		Bridge Omission - SN 064-0032	139.66												
STA 413+94.67 TO STA 414+34.17			Approach Slab & Connector Pvmt	39.50												84
STA 414+34.17 TO STA 416+32.81				198.64		91.0		59.6		29.7		2.8	522	150.6	198.6	
STA 416+32.81 TO STA 416+77.10			Connector Pvmt & Approach Slab	44.29												84
STA 416+77.10 TO STA 417+81.02	38.71		Bridge Omission - SN 064-0034	103.92												
STA 417+81.02 TO STA 418+26.18			Approach Slab & Connector Pvmt	45.16												84
STA 418+26.18 TO STA 427+34.85				908.67		416.3		272.8		135.7		12.9	2390	689.1	908.7	
STA 427+34.85 TO STA 427+98.35			Approach Slab & Bridge Cell A	63.50				14.3	9.5			0.9	167		63.5	84
STA 427+98.35	38.91		Resurfacing Ends - Near Bk Abut													
WB LANES TOTALS					23137	4402	0	18136	10388	837	0	528	201196	45661	80968	1724

WB LANES TOTALS - RURAL	20369	1642	0	14487	9272	0	0	398	164814	36498	64989	1133
WB LANES TOTALS - URBAN	2768	2760	0	3649	1116	837	0	130	36382	9162	15979	591
WB LANES TOTALS	23137	4402	0	18136	10388	837	0	528	201196	45661	80968	1724

FOR ADDITIONAL RESURFACING QUANTITIES, SEE SCHEDULES FOR I-24 RESURFACING - EAST BOUND LANES & I-24 RESURFACING - INTERCHANGE RAMPS

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

RESURFACING QUANTITIES
WEST BOUND LANES

SCALE: | SHEET 4 OF 6 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
24	64(1,2,2-1,3-1,3)RS-2	MASSAC	263	32
		CONTRACT NO. 78606		
	ILLINOIS	FED. AID PROJECT		

SCHEDULE FOR I-24 RESURFACING - INTERCHANGE RAMPS

FAI-24 - Mainline			COMMENTS	SECTION LENGTH (INFO ONLY)	POLY HMA BIND CSE IL-19.0 N90		POLY HMA BIND CSE IL-9.5FG N90	POLY STONE MATRIX HMA SURF MIX"E" N80	HOT-MIX ASPHALT SHOULDERS			AGG SHLD WEDGE	POLY BIT MATLS TACK CT	MATERIAL TRANSFER DEVISE	LONG JOINT SEALENT	TEMP RAMPS
					2¼"	3"	1¼"	1½" & 2"	1½"	2¼"	3¼"			(BNDR+SURF)		
	MP			FEET	TON	TON	TON	TON	TON	TON	TON	TON	POUND	TON	FOOT	SQ YD
BIG BAY INTERCHANGE - RURAL																
RAMP A Begins 0+11.00			**WB Entrance Ramp (Big Bay Rd)**													
STA 0+11.00 TO STA 1+02.89			CADD Measured Areas	91.89			32.3	38.5			46.3	3.2	425	70.8		17.8
STA 1+02.89 TO STA 2+60.00			Computed Areas (i.e. L x W)	157.11			20.0	23.6			12.7	5.5	223	43.6		
STA 2+60.00 TO STA 3+61.30			HMA Matt Area	101.30			12.9	15.2			8.2	3.5	144	28.1		25
STA 3+61.30 TO STA 4+41.54			**BRIDGE OMISSION**	80.24												
STA 4+41.54 TO STA 5+42.00			HMA Matt Area	100.46			12.8	15.1			8.1	3.5	143	27.9		25
STA 5+42.00 TO STA 10+00.00			Computed Areas (i.e. L x W)	458.00			58.3	68.9			37.0	15.9	651	127.2		
STA 10+00.00 TO STA 11+50.00			Computed Areas (i.e. L x W)	150.00			19.1	22.6			12.1	5.2	213	41.7		17.8
STA 11+50.00 BK = STA 192+00.80 AH			Stationing Switch													
STA 192+00.80 TO STA 180+11.84			CADD Measured Areas	1188.96		263.8		172.2	129.6			4.7	1747	436.0		???
RAMP B Begins 224+52.83			**WB Exit Ramp (Big Bay Rd)**													
STA 224+52.83 TO STA 217+93.17			CADD Measured Areas	659.66	121.3			79.5	97.4			2.1	1168	200.8		???
STA 217+93.17 BK = STA 0+00.00 AH			Stationing Switch													
STA 0+00.00 TO STA 1+00.00			Computed Areas (i.e. L x W)	100.00			12.7	15.1			8.1	3.5	142	27.8		17.8
STA 1+00.00 TO STA 15+51.64			Computed Areas (i.e. L x W)	1451.64			184.6	218.5			117.4	50.5	2063	403.1		
STA 15+51.64 TO STA 16+54.00			CADD Measured Areas	102.36			38.0	45.4			43.8	3.6	474	83.4		17.8
RAMP C Begins 0+11.00			**EB Entrance Ramp (Big Bay Rd)**													
STA 0+11.00 TO STA 1+05.00			CADD Measured Areas	94.00			33.0	39.4			43.2	3.3	425	72.4		17.8
STA 1+05.00 TO STA 12+50.00			Computed Areas (i.e. L x W)	1145.00			145.6	172.3			92.6	39.8	1627	318.0		
STA 12+50.00 TO STA 13+67.17			Computed Areas (i.e. L x W)	117.17			14.9	17.6			9.5	4.1	166	32.5		17.8
STA 13+67.17 BK = STA 218+80.24 AH			Stationing Switch													
STA 218+80.24 TO STA 230+25.50			CADD Measured Areas	1145.26	186.8			122.6	123.2			3.6	1655	309.4		???
RAMP D Begins 184+12.32			**EB Exit Ramp (Big Bay Rd)**													
STA 184+12.32 TO STA 190+72.54			CADD Measured Areas	660.22		164.0		106.8	94.5			2.6	1160	270.9		???
STA 190+72.54 BK = STA 0+00.00 AH			Stationing Switch													
STA 0+00.00 TO STA 2+50.00			Computed Areas (i.e. L x W)	250.00			31.8	37.6			20.2	8.7	355	69.4		17.8
STA 2+50.00 TO STA 12+45.00			Computed Areas (i.e. L x W)	995.00			126.6	149.7			80.5	34.6	1414	276.3		
STA 12+45.00 TO STA 13+46.60			HMA Matt Area	101.60				15.3			8.2	3.5	144	15.3		25
STA 13+46.60 TO STA 14+75.00			**BRIDGE OMISSION**	128.40												
STA 14+75.00 TO STA 15+47.00			HMA Matt Area	72.00			9.8	11.6			19.5	2.5	142	21.3		25
STA 15+47.00 TO STA 16+38.50			CADD Measured Areas	91.50			30.0	35.9			48.8	3.2	410	65.9		17.8
MAINLINE CROSSOVERS			See Crossover Schedule										399			

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

RESURFACING QUANTITIES
BIG BAY INTERCHANGE

SCALE: | SHEET 5 OF 6 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
24	64(1,2,2-1,3-1,3)RS-2	MASSAC	263	33
		CONTRACT NO. 78606		
		ILLINOIS FED. AID PROJECT		

SCHEDULE FOR I-24 RESURFACING - INTERCHANGE RAMPS

FAI-24 - Mainline			COMMENTS	SECTION LENGTH (INFO ONLY)	POLY HMA BIND CSE IL-19.0 N90		POLY HMA BIND CSE IL-9.5FG N90	POLY STONE MATRIX HMA SURF MIX"E" N80	HOT-MIX ASPHALT SHOULDERS			AGG SHLD WEDGE	POLY BIT MATLS TACK CT	MATERIAL TRANSFER DEVISE	LONG JOINT SEALENT	TEMP RAMPS
					2¼"	3"	1¼"	1½" & 2"	1½"	2¼"	3¼"			(BNDR+SURF)		
	MP			FEET	TON	TON	TON	TON	TON	TON	TON	TON	POUND	TON	FOOT	SQ YD
US 45 INTERCHANGE - URBAN																
RAMP A	Begins	0+33.00	WB Entrance Ramp (US 45)													
STA 0+33.00	TO STA	1+19.00	WORK BY OTHERS	86.00												
STA 1+19.00	TO STA	12+86.00	Computed Areas (i.e. L x W)	1167.00			148.4	175.6	108.9		236.0	121.8	2008	324.1		17.8
STA 12+86.00	TO STA	13+87.42	Computed Areas (i.e. L x W)	101.42			12.9	15.3	9.5		20.5	10.6	175	28.2		17.8
STA 13+87.42 BK =	STA	338+66.70 AH	Stationing Switch													
STA 338+66.70	TO STA	327+66.37	CADD Measured Areas	1100.33	167.8			109.9	115.8			3.5	1514	277.7		???
RAMP B	Begins	370+27.20	WB Exit Ramp (US 45)													
STA 370+27.20 =	STA	363+43.80	CADD Measured Areas	683.40		206.2		135.0	80.4			4.9	1254	341.2		???
STA 363+43.80 BK	TO STA	6+74.40 AH	Stationing Switch													
STA 6+74.40	TO STA	7+65.00	Computed Areas (i.e. L x W)	90.60			11.5	13.6	8.5		18.3	9.5	156	25.2		17.8
STA 7+65.00	TO STA	20+50.00	Computed Areas (i.e. L x W)	1285.00			163.5	193.4	119.9		259.9	134.2	2211	356.8		17.8
STA 20+50.00 =	STA	21+73.05	WORK BY OTHERS	123.05												
RAMP C	Begins	0+33.00	EB Entrance Ramp (US 45)													
STA 0+33.00	TO STA	1+63.00	WORK BY OTHERS	130.00												
STA 1+63.00	TO STA	13+17.00	Computed Areas (i.e. L x W)	1154.00			146.8	173.7	107.7		233.4	120.5	1986	320.5		17.8
STA 13+17.00	TO STA	14+16.91	Computed Areas (i.e. L x W)	99.91			12.7	15.0	9.3		20.2	10.4	172	27.7		17.8
STA 14+16.91 BK =	STA	361+62.72 AH	Stationing Switch													
STA 361+62.72	TO STA	372+56.63	CADD Measured Areas	1093.91		235.6		154.8	111.3			7.8	1538	390.4		???
RAMP D	Begins	331+41.00	EB Exit Ramp (US 45)													
STA 331+41.00	TO STA	338+26.50	CADD Measured Areas	685.50	124.9			81.0	102.0			2.2	1209	205.9		???
STA 338+26.50 BK =	STA	6+82.00 AH	Stationing Switch													
STA 6+82.00	TO STA	7+75.00	Computed Areas (i.e. L x W)	93.00			11.8	14.0	8.7		18.8	9.7	160	25.8		17.8
STA 7+75.00	TO STA	19+00.00	Computed Areas (i.e. L x W)	1125.00			143.1	169.3	105.0		227.5	117.4	1936	312.4		17.8
STA 19+00.00	TO STA	20+00.80	WORK BY OTHERS	100.80												
MAINLINE CROSSOVERS			See Crossover Schedule										98			
			INTERCHANGE RAMP TOTALS		601	870	1433	2674	1332	0	1651	760	29707	5578		385

RAMP TOTALS - RURAL	308	428	782	1424	445	0	616	207	15290	2942	0	243
RAMP TOTALS - URBAN	293	442	651	1251	887	0	1035	552	14816	2636	0	142
RAMP TOTALS	601	870	1433	2674	1332	0	1651	760	30106	5578	0	385

I-24 Project Totals - Rural	38182	7497	782	30993	18961	0	616	1017	344698	77455	129825	2510
I-24 Project Totals - Urban	5830	5959	651	8553	3158	1636	1035	810	87578	20959	31953	1324
Project Totals	44012	13456	1433	39546	22119	1636	1651	1827	432276	98414	161778	3834
	57468				25405							

FOR ADDITIONAL RESURFACING QUANTITIES, SEE SCHEDULES FOR I-24 RESURFACING - EAST BOUND LANES & I-24 RESURFACING - WEST BOUND LANES

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

RESURFACING QUANTITIES
METROLOPIS INTERCHANGE

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
24	64(1,2,2-1,3-1,3)RS-2	MASSAC	263	34
		CONTRACT NO. 78606		
		ILLINOIS FED. AID PROJECT		

SCHEDULE FOR I-24 RESURFACING - PCC SHOULDERS

FAI-24 - Mainline	MP	COMMENTS	SECTION LENGTH (INFO ONLY)	PAVED SHOULDER REMOVAL	PCC SHOULDERS	TIE BARS	PROTECTIVE COAT
			FEET	SQ YD	SQ YD	EACH	SQ YD
* BIG BAY INTERCHANGE - RURAL							
RAMP A Begins 0+11.00		WB Entrance Ramp (Big Bay Rd)					
STA 0+11.00 TO STA 1+02.89		CADD Measured Areas	91.89				
STA 1+02.89 TO STA 2+60.00		Computed Areas (i.e. L x W)	157.11	175	175	52	175
STA 2+60.00 TO STA 3+61.30		HMA Matt Area	101.30	113	113	34	113
STA 3+61.30 TO STA 4+41.54		BRIDGE OMISSION	80.24				
STA 4+41.54 TO STA 5+42.00		HMA Matt Area	100.46	112	112	33	112
STA 5+42.00 TO STA 10+00.00		Computed Areas (i.e. L x W)	458.00	509	509	153	509
STA 10+00.00 TO STA 11+50.00		Computed Areas (i.e. L x W)	150.00	167	167	50	167
STA 11+50.00 BK = STA 192+00.80 AH		Stationing Switch					
STA 192+00.80 TO STA 180+11.84		CADD Measured Areas	1188.96				
RAMP B Begins 224+52.83		WB Exit Ramp (Big Bay Rd)					
STA 224+52.83 TO STA 217+93.17		CADD Measured Areas	659.66				
STA 217+93.17 BK = STA 0+00.00 AH		Stationing Switch					
STA 0+00.00 TO STA 1+00.00		Computed Areas (i.e. L x W)	100.00	111	111	33	111
STA 1+00.00 TO STA 15+51.64		Computed Areas (i.e. L x W)	1451.64	1613	1613	484	1613
STA 15+51.64 TO STA 16+54.00		CADD Measured Areas	102.36				
RAMP C Begins 0+11.00		EB Entrance Ramp (Big Bay Rd)					
STA 0+11.00 TO STA 1+05.00		CADD Measured Areas	94.00				
STA 1+05.00 TO STA 12+50.00		Computed Areas (i.e. L x W)	1145.00	1272	1272	382	1272
STA 12+50.00 TO STA 13+67.17		Computed Areas (i.e. L x W)	117.17	1172	1172	39	1172
STA 13+67.17 BK = STA 218+80.24 AH		Stationing Switch					
STA 218+80.24 TO STA 230+25.50		CADD Measured Areas	1145.26				
RAMP D Begins 184+12.32		EB Exit Ramp (Big Bay Rd)					
STA 184+12.32 TO STA 190+72.54		CADD Measured Areas	660.22				
STA 190+72.54 BK = STA 0+00.00 AH		Stationing Switch					
STA 0+00.00 TO STA 2+50.00		Computed Areas (i.e. L x W)	250.00	278	278	83	278
STA 2+50.00 TO STA 12+45.00		Computed Areas (i.e. L x W)	995.00	1106	1106	332	1106
STA 12+45.00 TO STA 13+46.60		HMA Matt Area	101.60	113	113	34	113
STA 13+46.60 TO STA 14+75.00		BRIDGE OMISSION	128.40				
STA 14+75.00 TO STA 15+47.00		HMA Matt Area	72.00	80	80	24	80
STA 15+47.00 TO STA 16+38.50		CADD Measured Areas	91.50				
		INTERCHANGE RAMP TOTALS		6818	6818	1733	6818

RAMP TOTALS - RURAL	6818	6818	1733	6818
RAMP TOTALS - URBAN	0	0	0	0
RAMP TOTALS	6818	6818	1733	6818

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

RESURFACING QUANTITIES
BIG BAY INTERCHANGE - PCC SHOULDERS

SCALE: | SHEET 5 OF 6 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
24	64(1,2,2-1,3-1,3)RS-2	MASSAC	263	35
		CONTRACT NO. 78606		
	ILLINOIS	FED. AID PROJECT		

SCHEDULE FOR I-24 PAVEMENT MARKING - EAST BOUND LANES

FAI-24 - Mainline		COMMENTS	SECTION LENGTH (INFO ONLY)	THERMOPLASTIC PAVEMENT MARKING					GROOVING FOR RECESSED PAVEMENT MARKING				PAVEMENT MARKING REMOVAL GRINDING
				SOLID YELLOW	SOLID WHITE	SKIP DASH WHITE	SOLID WHITE	SOLID WHITE				LTRS & SYMB	
				6"	6"	6"	8"	24"	7"	9"	25"		
	MP		FEET	FOOT	FOOT	FOOT	FOOT	FOOT	FOOT	FOOT	FOOT	SQ FT	SQ FT
I-24 EB Lanes													
RURAL 456+69.50													
EQ STA 456+69.50 BK = STA 50+54.47 AH	23.878	County Line											
STA 50+54.47 TO STA 95+85.00			4530.53	4530.5	4530.5	1132.6			10193.7				5096.8
STA 95+85.00 TO STA 95+85.00	24.736	Overpass - SN 064-0013											
STA 95+85.00 TO STA 96+62.00			77.00	77.0	77.0	19.3			173.3				86.6
STA 96+62.00 TO STA 184+12.32			8750.32	8750.3	8750.3	2187.6			19688.2				9844.1
STA 184+12.32 TO STA 190+72.54		EB Exit Ramp Departure Area	660.22	660.2	660.2	165.1			1485.5				742.7
STA 190+72.54 TO STA 200+65.91			993.37	993.4	993.4	248.3			2235.1				1117.5
STA 200+65.91 TO STA 201+16.37		Connector Pvmt & Approach Slab	50.46	50.5	50.5	12.6			113.5				56.8
STA 201+16.37 TO STA 202+08.62	26.739	Bridge Omission - SN 064-0015	92.25	92.3	92.3	23.1			207.6				103.8
STA 202+08.62 TO STA 202+61.58		Approach Slab & Connector Pvmt	52.96	53.0	53.0	13.2			119.2				59.6
STA 202+61.58 TO STA 204+12.00			150.42	150.4	150.4	37.6			338.4				169.2
STA 204+12.00 TO STA 204+12.00	26.787	Overpass - SN 064-0016 Big Bay											
STA 204+12.00 TO STA 217+12.00			1300.00	1300.0	1300.0	325.0			2925.0				1462.5
STA 217+12.00 TO STA 218+80.24			168.24	168.2	168.2	42.1			378.5				189.3
STA 218+80.24 TO STA 230+25.50		EB Entrance Ramp Merge Area	1145.26	1145.3	1145.3	286.3			2576.8				1288.4
STA 230+25.50 TO STA 253+33.57			2308.07	2308.1	2308.1	577.0			5193.2				2596.6
STA 253+33.57 TO STA 253+53.07		Approach Slab	19.50	19.5	19.5	4.9			43.9				21.9
STA 253+53.07 TO STA 255+03.90	27.737	Bridge Omission - SN 064-0018	150.83	150.8	150.8	37.7			339.4				169.7
STA 255+03.90 TO STA 255+23.40		Approach Slab	19.50	19.5	19.5	4.9			43.9				21.9
STA 255+23.40 TO STA 298+95.00			4371.60	4371.6	4371.6	1092.9			9836.1				4918.1
STA 298+95.00 TO STA 298+95.00	28.583	Overpass - SN 064-0019											
STA 298+95.00 TO STA 301+81.06			286.06	286.1	286.1	71.5			643.6				321.8
EQ STA 301+81.06 BK = STA 301+86.33 AH	28.637												
STA 301+86.33 TO STA 328+31.71			2645.38	2645.4	2645.4	661.3			5952.1				2976.1
STA 328+31.71 TO STA 328+84.92		Connector Pvmt & Approach Slab	53.21	53.2	53.2	13.3			119.7				59.9
STA 328+84.92 TO STA 330+73.00	29.166	Bridge Omission - SN 064-0021	188.08	188.1	188.1	47.0			423.2				211.6
STA 330+73.00 TO STA 331+29.35		Approach Slab & Connector Pvmt	56.35	56.3	56.3	14.1			126.8				63.4
STA 331+29.35 TO STA 417+07.71			8578.36	8578.4	8578.4	2144.6			19301.3				9650.7
EQ STA 417+07.71 BK = STA 417+03.53 AH	30.819												
STA 417+03.53 TO STA 418+15.00			111.47	111.5	111.5	27.9			250.8				125.4
STA 418+15.00 TO STA 418+15.00	30.840	Overpass - SN 064-0022											
STA 418+15.00 TO STA 446+93.78			2878.78	2878.8	2878.8	719.7			6477.3				3238.6
EQ STA 446+93.78 BK = STA 32+66.19 AH	31.385												
STA 32+66.19 TO STA 93+66.61			6100.42	6100.4	6100.4	1525.1			13725.9				6863.0
STA 93+66.61 TO STA 94+17.08		Connector Pvmt & Approach Slab	50.47	50.5	50.5	12.6			113.6				56.8
STA 94+17.08 TO STA 95+73.91	32.565	Bridge Omission - SN 064-0024	156.83	156.8	156.8	39.2			352.9				176.4
STA 95+73.91 TO STA 96+26.88		Approach Slab & Connector Pvmt	52.97	53.0	53.0	13.2			119.2				59.6
STA 96+26.88 TO STA 138+63.75			4236.87	4236.9	4236.9	1059.2			9533.0				4766.5
STA 138+63.75 TO STA 139+09.68		Connector Pvmt & Approach Slab	45.93	45.9	45.9	11.5			103.3				51.7
STA 139+09.68 TO STA 140+28.18	33.412	Bridge Omission - SN 064-0026	118.50	118.5	118.5	29.6			266.6				133.3
STA 140+28.18 TO STA 140+76.29		Approach Slab & Connector Pvmt	48.11	48.1	48.1	12.0			108.2				54.1
STA 140+76.29 TO STA 239+39.48			9863.19	9863.2	9863.2	2465.8			22192.2				11096.1
STA 239+39.48 TO STA 239+87.16		Connector Pvmt & Approach Slab	47.68	47.7	47.7	11.9			107.3				53.6
STA 239+87.16 TO STA 241+17.66	35.322	Bridge Omission - SN 064-0045	130.50	130.5	130.5	32.6			293.6				146.8
STA 241+17.66 TO STA 241+63.78		Approach Slab & Connector Pvmt	46.12	46.1	46.1	11.5			103.8				51.9
STA 241+63.78 TO STA 280+00.00			3836.22	3836.2	3836.2	959.1			8631.5				4315.8
STA 280+00.00 TO STA 280+00.00	36.070	RURAL to URBAN											

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DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING I
EAST BOUND LANES

SCALE: | SHEET 1 OF 12 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
24	64(1,2,2-1,3-1,3)RS-2	MASSAC	263	36
		CONTRACT NO. 78606		
	ILLINOIS	FED. AID PROJECT		

SCHEDULE FOR I-24 PAVEMENT MARKING - EAST BOUND LANES

FAI-24 - Mainline				COMMENTS	SECTION LENGTH (INFO ONLY)	THERMOPLASTIC PAVEMENT MARKING					GROOVING FOR RECESSED PAVEMENT MARKING				PAVEMENT MARKING REMOVAL GRINDING
						SOLID YELLOW	SOLID WHITE	SKIP DASH WHITE	SOLID WHITE	SOLID WHITE				LTRS & SYMB	
						6"	6"	6"	8"	24"	7"	9"	25"		
	MP				FEET	FOOT	FOOT	FOOT	FOOT	FOOT	FOOT	FOOT	FOOT	SQ FT	SQ FT
I-24 EB Lanes															
STA 280+00.00	TO STA	280+00.00	36.070	RURAL to URBAN											
STA 280+00.00	TO STA	331+41.00			5141.00	5141.0	5141.0	1285.3			11567.3				5783.6
STA 331+41.00	TO STA	338+26.50		EB Exit Ramp Departure Area	685.50	685.5	685.5	171.4			1542.4				771.2
STA 338+26.50	TO STA	350+00.36			1173.86	1173.9	1173.9	293.5			2641.2				1320.6
STA 350+00.36	TO STA	350+00.36	37.395	Overpass - SN 064-0029 - US 45											
STA 350+00.36	TO STA	361+00.00			1099.64	1099.6	1099.6	274.9			2474.2				1237.1
STA 361+00.00	TO STA	361+62.72			62.72	62.7	62.7	15.7			141.1				70.6
STA 361+62.72	TO STA	372+56.63		EB Entrance Ramp Merge Area	1093.91	1093.9	1093.9	273.5			2461.3				1230.6
STA 372+56.63	TO STA	400+07.11			2750.48	2750.5	2750.5	687.6			6188.6				3094.3
STA 400+07.11	TO STA	400+46.61		Connector Pvmt & Approach Slab	39.50	39.5	39.5	9.9			88.9				44.4
STA 400+46.61	TO STA	401+58.44	38.362	Bridge Omission - SN 064-0030	111.83	111.8	111.8	28.0			251.6				125.8
STA 401+58.44	TO STA	401+97.94		Approach Slab & Connector Pvmt	39.50	39.5	39.5	9.9			88.9				44.4
STA 401+97.94	TO STA	412+17.42			1019.48	1019.5	1019.5	254.9			2293.8				1146.9
STA 412+17.42	TO STA	412+56.92		Connector Pvmt & Approach Slab	39.50	39.5	39.5	9.9			88.9				44.4
STA 412+56.92	TO STA	413+97.57	38.594	Bridge Omission - SN 064-0032	140.65	140.7	140.7	35.2			316.5				158.2
STA 413+97.57	TO STA	414+37.07		Approach Slab & Connector Pvmt	39.50	39.5	39.5	9.9			88.9				44.4
STA 414+37.07	TO STA	416+40.09			203.02	203.0	203.0	50.8			456.8				228.4
STA 416+40.09	TO STA	416+84.26		Connector Pvmt & Approach Slab	44.17	44.2	44.2	11.0			99.4				49.7
STA 416+84.26	TO STA	417+87.84	38.671	Bridge Omission - SN 064-0034	103.58	103.6	103.6	25.9			233.0				116.5
STA 417+87.84	TO STA	418+33.58		Approach Slab & Connector Pvmt	45.74	45.7	45.7	11.4			102.9				51.5
STA 418+33.58	TO STA	427+34.85			901.27	901.3	901.3	225.3			2027.9				1013.9
STA 427+34.85	TO STA	427+98.35		Approach Slab & Bridge Cell A	63.50	63.5	63.5	15.9			142.9				71.4
	STA	427+98.35	38.872	Improvement Ends											
				EB LANES TOTAL		79170	79170	19793	0	0	178133	0	0	0	89067

EB LANES TOTALS - RURAL	64372	64372	16093	0	0	144837	0	0	0	72419
EB LANES TOTALS - URBAN	14798	14798	3700	0	0	33296	0	0	0	16648
EB LANES TOTALS	79170	79170	19793	0	0	178133	0	0	0	89067

FOR ADDITIONAL PAVEMENT MARKING QUANTITIES, SEE SCHEDULES FOR I-24 PAVEMENT MARKING - WEST BOUND LANES & I-24 PAVEMENT MARKING - INTERCHANGE RAMPS

FILE NAME = pw:\\planroom.dot.illinois.gov:PWIDOT\Documents\IDOT Offices\District 9\Projects\78606\CADData\CADsheets\d978606-ent.dgn	USER NAME = leftwichdl	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PAVEMENT MARKING I EAST BOUND LANES	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN -	REVISED -			24	64(1,2,2-1,3-1,3)RS-2	MASSAC	263	37
Default	PLOT SCALE = 100.0000 ' / In.	CHECKED -	REVISED -					CONTRACT NO. 78606		
	PLOT DATE = 10/21/2020	DATE -	REVISED -		SCALE: SHEET 2 OF 12 SHEETS STA. TO STA.		ILLINOIS	FED. AID PROJECT		

SCHEDULE FOR I-24 PAVEMENT MARKING - WEST BOUND LANES

FAI-24 - Mainline		COMMENTS	SECTION LENGTH (INFO ONLY)	THERMOPLASTIC PAVEMENT MARKING					GROOVING FOR RECESSED PAVEMENT MARKING				PAVEMENT MARKING REMOVAL GRINDING
				SOLID YELLOW	SOLID WHITE	SKIP DASH WHITE	SOLID WHITE	SOLID WHITE				LTRS & SYMB	
				6"	6"	6"	8"	24"	7"	9"	25"		
	MP		FEET	FOOT	FOOT	FOOT	FOOT	FOOT	FOOT	FOOT	FOOT	SQ FT	SQ FT
I-24 WB Lanes													
RURAL 456+69.50													
EQ STA 456+69.50 BK = STA 50+54.47 AH	23.878	County Line											
STA 50+54.47 TO STA 95+85.00			4530.53	4530.5	4530.5	1132.6			10193.7				5096.8
STA 95+85.00 TO STA 95+85.00	24.736	Overpass - SN 064-0013											
STA 95+85.00 TO STA 179+18.00			8333.00	8333.0	8333.0	2083.3			18749.3				9374.6
STA 179+18.00 TO STA 180+11.84			93.84	93.8	93.8	23.5			211.1				105.6
STA 180+11.84 TO STA 192+00.80		WB Entrance Ramp Merge Area	1188.96	1189.0	1189.0	297.2			2675.2				1337.6
STA 192+00.80 TO STA 199+98.43			797.63	797.6	797.6	199.4			1794.7				897.3
STA 199+98.43 TO STA 200+51.39		Connector Pvmt & Approach Slab	52.96	53.0	53.0	13.2			119.2				59.6
STA 200+51.39 TO STA 201+43.64	26.727	Bridge Omission - SN 064-0014	92.25	92.3	92.3	23.1			207.6				103.8
STA 201+43.64 TO STA 201+94.10		Approach Slab & Connector Pvmt	50.46	50.5	50.5	12.6			113.5				56.8
STA 201+94.10 TO STA 204+12.00			217.90	217.9	217.9	54.5			490.3				245.1
STA 204+12.00 TO STA 204+12.00	26.787	Overpass - SN 064-0016 Big Bay											
STA 204+12.00 TO STA 217+12.00			1300.00	1300.0	1300.0	325.0			2925.0				1462.5
STA 217+12.00 TO STA 217+93.17			81.17	81.2	81.2	20.3			182.6				91.3
STA 217+93.17 TO STA 224+52.83		WB Exit Ramp Departure Area	659.66	659.7	659.7	164.9			1484.2				742.1
STA 224+52.83 TO STA 252+36.59			2783.76	2783.8	2783.8	695.9			6263.5				3131.7
STA 252+36.59 TO STA 252+56.09		Approach	19.50	19.5	19.5	4.9			43.9				21.9
STA 252+56.09 TO STA 254+06.92	27.718	Bridge Omission - SN 064-0017	150.83	150.8	150.8	37.7			339.4				169.7
STA 254+06.92 TO STA 254+26.42		Approach	19.50	19.5	19.5	4.9			43.9				21.9
STA 254+26.42 TO STA 298+95.00			4468.58	4468.6	4468.6	1117.1			10054.3				5027.2
STA 298+95.00 TO STA 298+95.00	28.583	Overpass - SN 064-0019											
STA 298+95.00 TO STA 301+81.06			286.06	286.1	286.1	71.5			643.6				321.8
EQ STA 301+81.06 BK = STA 1301+73.45 AH	28.637												
STA 1301+73.45 TO STA 1326+71.49			2498.04	2498.0	2498.0	624.5			5620.6				2810.3
STA 1326+71.49 TO STA 1327+24.69		Approach	53.20	53.2	53.2	13.3			119.7				59.9
STA 1327+24.69 TO STA 1329+03.68	29.137	Bridge - SN 064-0020	178.99	179.0	179.0	44.7			402.7				201.4
STA 1329+03.68 TO STA 1329+54.81		Approach	51.13	51.1	51.1	12.8			115.0				57.5
STA 1329+54.81 TO STA 1417+84.96			8830.15	8830.1	8830.1	2207.5			19867.8				9933.9
EQ STA 1417+84.96 BK = STA 417+03.53 AH	30.836												
STA 417+03.53 TO STA 418+15.00			111.47	111.5	111.5	27.9			250.8				125.4
STA 418+15.00 TO STA 418+15.00	**30.840**	Overpass - SN 064-0022											
STA 418+15.00 TO STA 446+93.78			2878.78	2878.8	2878.8	719.7			6477.3				3238.6
EQ STA 446+93.78 BK = STA 32+66.19 AH	31.385												
STA 32+66.19 TO STA 92+99.12			6032.93	6032.9	6032.9	1508.2			13574.1				6787.0
STA 92+99.12 TO STA 93+52.09		Connector Pvmt & Approach Slab	52.97	53.0	53.0	13.2			119.2				59.6
STA 93+52.09 TO STA 95+08.92	32.553	Bridge Omission - SN 064-0023	156.83	156.8	156.8	39.2			352.9				176.4
STA 95+08.92 TO STA 95+55.12		Approach Slab & Connector Pvmt	46.20	46.2	46.2	11.6			104.0				52.0
STA 95+55.12 TO STA 138+23.71			4268.59	4268.6	4268.6	1067.1			9604.3				4802.2
STA 138+23.71 TO STA 138+71.82		Connector Pvmt & Approach Slab	48.11	48.1	48.1	12.0			108.2				54.1
STA 138+71.82 TO STA 139+90.32	33.405	Bridge Omission - SN 064-0025	118.50	118.5	118.5	29.6			266.6				133.3
STA 139+90.32 TO STA 140+36.25		Approach Slab & Connector Pvmt	45.93	45.9	45.9	11.5			103.3				51.7
STA 140+36.25 TO STA 239+94.31			9958.06	9958.1	9958.1	2489.5			22405.6				11202.8
STA 239+94.31 TO STA 240+39.14		Connector Pvmt & Approach Slab	44.83	44.8	44.8	11.2			100.9				50.4
STA 240+39.14 TO STA 241+69.64	35.332	Bridge Omission - SN 064-0046	130.50	130.5	130.5	32.6			293.6				146.8
STA 241+69.64 TO STA 242+18.11		Approach Slab & Connector Pvmt	48.47	48.5	48.5	12.1			109.1				54.5
STA 242+18.11 TO STA 280+00.00			3781.89	3781.9	3781.9	945.5			8509.2				4254.6
STA 280+00.00 TO STA 280+00.00	36.070	**Rural To Urban**											

CONTINUED NEXT SHEET

SCHEDULE FOR I-24 PAVEMENT MARKING - WEST BOUND LANES

FAI-24 - Mainline				COMMENTS	SECTION LENGTH (INFO ONLY)	THERMOPLASTIC PAVEMENT MARKING					GROOVING FOR RECESSED PAVEMENT MARKING				PAVEMENT MARKING REMOVAL GRINDING
						SOLID YELLOW	SOLID WHITE	SKIP DASH WHITE	SOLID WHITE	SOLID WHITE				LTRS & SYMB	
						6"	6"	6"	8"	24"	7"	9"	25"		
	MP				FEET	FOOT	FOOT	FOOT	FOOT	FOOT	FOOT	FOOT	FOOT	SQ FT	SQ FT
I-24 WB Lanes															
STA 280+00.00	TO STA	280+00.00	36.070	Rural To Urban											
STA 280+00.00	TO STA	327+66.37			4766.37	4766.4	4766.4	1191.6			10724.3				5362.2
STA 327+66.37	TO STA	338+66.70		WB Entrance Ramp Merge Area	1100.33	1100.3	1100.3	275.1			2475.7				1237.9
STA 338+66.70	TO STA	350+00.36			1133.66	1133.7	1133.7	283.4			2550.7				1275.4
STA 350+00.36	TO STA	350+00.36	37.396	Overpass - SN 064-0029 - US 45											
STA 350+00.36	TO STA	361+00.00			1099.64	1099.6	1099.6	274.9			2474.2				1237.1
STA 361+00.00	TO STA	363+43.80			243.80	243.8	243.8	61.0			548.6				274.3
STA 363+43.80	TO STA	370+27.20		WB Exit Ramp Departure Area	683.40	683.4	683.4	170.8			1537.6				768.8
STA 370+27.20	TO STA	400+07.40			2980.20	2980.2	2980.2	745.1			6705.5				3352.7
STA 400+07.40	TO STA	400+46.91		Connector Pvmt & Approach Slab	39.51	39.5	39.5	9.9			88.9				44.4
STA 400+46.91	TO STA	401+58.74	38.362	Bridge Omission - SN 064-0031	111.83	111.8	111.8	28.0			251.6				125.8
STA 401+58.74	TO STA	401+98.24		Approach Slab & Connector Pvmt	39.50	39.5	39.5	9.9			88.9				44.4
STA 401+98.24	TO STA	412+15.51			1017.27	1017.3	1017.3	254.3			2288.9				1144.4
STA 412+15.51	TO STA	412+55.01		Connector Pvmt & Approach Slab	39.50	39.5	39.5	9.9			88.9				44.4
STA 412+55.01	TO STA	413+94.67	38.593	Bridge Omission - SN 064-0033	139.66	139.7	139.7	34.9			314.2				157.1
STA 413+94.67	TO STA	414+34.17		Approach Slab & Connector Pvmt	39.50	39.5	39.5	9.9			88.9				44.4
STA 414+34.17	TO STA	416+32.81			198.64	198.6	198.6	49.7			446.9				223.5
STA 416+32.81	TO STA	416+77.10		Connector Pvmt & Approach Slab	44.29	44.3	44.3	11.1			99.7				49.8
STA 416+77.10	TO STA	417+81.02	38.670	Bridge Omission - SN 064-0034	103.92	103.9	103.9	26.0			233.8				116.9
STA 417+81.02	TO STA	418+26.18		Approach Slab & Connector Pvmt	45.16	45.2	45.2	11.3			101.6				50.8
STA 418+26.18	TO STA	427+34.85			908.67	908.7	908.7	227.2			2044.5				1022.2
STA 427+34.85	TO STA	427+98.35		Approach Slab & Bridge Cell A	63.50	63.5	63.5	15.9			142.9				71.4
	STA	427+98.35	38.872	Improvement Ends											
				WB LANES TOTAL		79261	79261	19815	0	0	178336	0	0	0	89168

WB LANES TOTALS - RURAL	64462	64462	16116	0	0	145040	0	0	0	72520
WB LANES TOTALS - URBAN	14798	14798	3700	0	0	33296	0	0	0	16648
WB LANES TOTALS	79261	79261	19815	0	0	178336	0	0	0	89168

FOR ADDITIONAL PAVEMENT MARKING QUANTITIES, SEE SCHEDULES FOR I-24 PAVEMENT MARKING - EAST BOUND LANES & I-24 PAVEMENT MARKING - INTERCHANGE RAMPS

FILE NAME = pw:\\planroom.dot.illinois.gov:PWIDOT\Documents\IDOT Offices\District 9\Projects\78606\CADData\CADsheets\d978606-sht_BR	USER NAME = leftwichdl	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PAVEMENT MARKING I WEST BOUND LANES	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN -	REVISED -			24	64(1,2,2-1,3-1,3)RS-2	MASSAC	263	39
Default	PLOT SCALE = 100.0000 ' / In.	CHECKED -	REVISED -					CONTRACT NO. 78606		
	PLOT DATE = 10/21/2020	DATE -	REVISED -		SCALE: SHEET 4 OF 12 SHEETS STA. TO STA.		ILLINOIS	FED. AID PROJECT		

SCHEDULE FOR I-24 PAVEMENT MARKING - INTERCHANGE RAMPS

FAI-24 - Ramps		COMMENTS	SECTION LENGTH (INFO ONLY)	THERMOPLASTIC PAVEMENT MARKING					GROOVING FOR RECESSED PAVEMENT MARKING				PAVEMENT MARKING REMOVAL GRINDING
				SOLID YELLOW	SOLID WHITE	SKIP DASH WHITE	SOLID WHITE	SOLID WHITE				LTRS & SYMB	
				6"	6"	6"	8"	24"	7"	9"	25"		
	MP		FEET	FOOT	FOOT	FOOT	FOOT	FOOT	FOOT	FOOT	FOOT	SQ FT	SQ FT
BIG BAY INTERCHANGE - RURAL													
RAMP A Begins 0+11.00		WB Entrance Ramp (Big Bay Rd)											
STA 0+11.00 TO STA 1+02.89		CADD Measured	91.89	110.0	150.0				260.0				130.0
STA 1+02.89 TO STA 2+60.00		Ramp	157.11	157.1	157.1				314.2				157.1
STA 2+60.00 TO STA 3+61.30		HMA Matt Area	101.30	101.3	101.3				202.6				101.3
STA 3+61.30 TO STA 4+41.54		BRIDGE	80.24	80.2	80.2				160.5				80.2
STA 4+41.54 TO STA 5+42.00		HMA Matt Area	100.46	100.5	100.5				200.9				100.5
STA 5+42.00 TO STA 10+00.00		Ramp	458.00	458.0	458.0				916.0				458.0
STA 10+00.00 TO STA 11+50.00		Ramp	150.00	150.0	150.0				300.0				150.0
STA 11+50.00 BK = STA 192+00.80 AH		Stationing Switch											
STA 192+00.80 TO STA 187+60.00		Gore Area	440.80		440.8		881.6		440.8	881.6			808.1
STA 187+60.00 TO STA 180+11.84		Merge Area	748.16		748.2				748.2				374.1
RAMP B Begins 224+52.83		WB Exit Ramp (Big Bay Rd)											
STA 224+52.83 TO STA 221+72.00		Departure Area	280.83		280.8				280.8				140.4
STA 221+72.00 TO STA 217+93.17		Gore Area	378.83		378.8		757.7		378.8	757.7			694.5
STA 217+93.17 BK = STA 0+00.00 AH		Stationing Switch											
STA 0+00.00 BK = STA 1+00.00		Ramp	100.00										
STA 1+00.00 BK = STA 15+51.64		Ramp	1451.64	1451.6	1451.6				2903.3				1451.6
STA 15+51.64 TO STA 16+54.00		CADD Measured	102.36	105.0	165.0			75.0	270.0		75.0		285.0
RAMP C Begins 0+11.00		EB Entrance Ramp (Big Bay Rd)											
STA 0+11.00 TO STA 1+05.00		CADD Measured	94.00	120.0	135.0				255.0				127.5
STA 1+05.00 TO STA 12+50.00		Ramp	1145.00	1145.0	1145.0				2290.0				1145.0
STA 12+50.00 TO STA 13+67.17		Ramp	117.17	117.2	117.2				234.3				117.2
STA 13+67.17 BK = STA 218+80.24 AH		Stationing Switch											
STA 218+80.24 TO STA 222+96.00		Gore Area	415.76		415.8		831.5		415.8	831.5			762.2
STA 222+96.00 TO STA 230+25.50		Merge Area	729.50		729.5				729.5				364.8
RAMP D Begins 184+12.32		EB Exit Ramp (Big Bay Rd)											
STA 184+12.32 TO STA 186+90.00		Departure Area	277.68		277.7				277.7				138.8
STA 186+90.00 TO STA 190+72.54		Gore Area	382.54		382.5		765.1		382.5	765.1			701.3
STA 190+72.54 BK = STA 0+00.00 AH		Stationing Switch											
STA 0+00.00 BK = STA 2+50.00		Ramp	250.00	250.0	250.0				500.0				250.0
STA 2+50.00 BK = STA 12+45.00		Ramp	995.00	995.0	995.0				1990.0				995.0
STA 12+45.00 BK = STA 13+46.60		HMA Matt Area	101.60	101.6	101.6				203.2				101.6
STA 13+46.60 BK = STA 14+75.00		BRIDGE	128.40	128.4	128.4				256.8				128.4
STA 14+75.00 TO STA 15+47.00		HMA Matt Area	72.00	72.0	72.0				144.0				72.0
STA 15+47.00 TO STA 16+38.50		CADD Measured	91.50	150.0	190.0			75.0	340.0		75.0		320.0

CONTINUED NEXT SHEET

FILE NAME = pw:\\planroom.dot.illinois.gov:PWIDOT\Documents\IDOT Offices\District 9\Projects\78606\CADData\CADsheets\d978606-sht_BR	USER NAME = leftwichdl	DESIGNED -	REVISED -
		DRAWN -	REVISED -
	PLOT SCALE = 100.0000 ' / In.	CHECKED -	REVISED -
Default	PLOT DATE = 10/21/2020	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING I
BIG BAY INTERCHANGE

SCALE: | SHEET 5 OF 12 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
24	64(1,2,2-1,3-1,3)RS-2	MASSAC	263	40
		CONTRACT NO. 78606		
		ILLINOIS FED. AID PROJECT		

SCHEDULE FOR I-24 PAVEMENT MARKING - INTERCHANGE RAMPS

FAI-24 - Ramps		COMMENTS	SECTION LENGTH (INFO ONLY)	THERMOPLASTIC PAVEMENT MARKING					GROOVING FOR RECESSED PAVEMENT MARKING				PAVEMENT MARKING REMOVAL GRINDING
				SOLID YELLOW	SOLID WHITE	SKIP DASH WHITE	SOLID WHITE	SOLID WHITE				LTRS & SYMB	
				6"	6"	6"	8"	24"	7"	9"	25"		
	MP		FEET	FOOT	FOOT	FOOT	FOOT	FOOT	FOOT	FOOT	FOOT	SQ FT	SQ FT
US 45 INTERCHANGE - URBAN													
RAMP A Begins 0+33.00		WB Entrance Ramp (US 45)											
STA 0+33.00 TO STA 1+19.00		By Others	86.00										
STA 1+19.00 TO STA 12+86.00		Ramp	1167.00	1167.0	1167.0				2334.0				1167.0
STA 12+86.00 TO STA 13+87.42		Ramp	101.42	101.4	101.4				202.8				101.4
STA 13+87.42 BK = STA 338+66.70 AH		Stationing Switch											
STA 338+66.70 TO STA 336+26.00		Gore Area	240.70		240.7		481.4		240.7	481.4			441.3
STA 336+26.00 TO STA 327+66.37		Merge Area	859.63		859.6				859.6				429.8
RAMP B Begins 370+27.20		WB Exit Ramp (US 45)											
STA 370+27.20 = STA 367+00.00		Departure Area	327.20		327.2				327.2				163.6
STA 367+00.00 = STA 363+43.80		Gore Area	356.20		356.2		712.4		356.2	712.4			653.0
STA 363+43.80 BK TO STA 6+74.40 AH		Stationing Switch											
STA 6+74.40 BK TO STA 7+65.00		Ramp	90.60	90.6	90.6				181.2				90.6
STA 7+65.00 BK TO STA 20+50.00		Ramp	1285.00	1285.0	1285.0				2570.0				1285.0
STA 20+50.00 = STA 21+73.05		By Others	123.05										
RAMP C Begins 0+33.00		EB Entrance Ramp (US 45)											
STA 0+33.00 TO STA 1+63.00		By Others	130.00										
STA 1+63.00 TO STA 13+17.00		Ramp	1154.00	1154.0	1154.0				2308.0				1154.0
STA 13+17.00 TO STA 14+16.91		Ramp	99.91	99.9	99.9				199.8				99.9
STA 14+16.91 BK = STA 361+62.72 AH		Stationing Switch											
STA 361+62.72 TO STA 363+06.00		Gore Area	143.28		143.3		286.6		143.3	286.6			262.7
STA 363+06.00 TO STA 372+56.63		Merge Area	950.63		950.6				950.6				475.3
RAMP D Begins 331+41.00		EB Exit Ramp (US 45)											
STA 331+41.00 TO STA 334+06.00		Departure Area	265.00		265.0				265.0				132.5
STA 334+06.00 TO STA 338+26.50		Gore Area	420.50		420.5		841.0		420.5	841.0			770.9
STA 338+26.50 BK = STA 6+82.00 AH		Stationing Switch											
STA 6+82.00 TO STA 7+75.00		Ramp	93.00	93.0	93.0				186.0				93.0
STA 7+75.00 TO STA 19+00.00		Ramp	1125.00	1125.0	1125.0				2250.0				1125.0
STA 19+00.00 TO STA 20+00.80		By Others	100.80										
		RAMPS TOTAL	18560.69	10909	18281	0	5557	150	29190	5557	150	0	18600

RAMP TOTALS - RURAL	5793	9602	0	3236	150	15395	3236	150	0	10155
RAMP TOTALS - URBAN	5116	8679	0	2321	0	13795	2321	0	0	8445
RAMP TOTALS	10909	18281	0	5557	150	29190	5557	150	0	18600

PROJECT TOTAL - RURAL	134627	138436	32209	3236	150	305272	3236	150	0	155093
PROJECT TOTAL - URBAN	34713	38276	7399	2321	0	80388	2321	0	0	41741
PROJECT TOTAL	169340	176712	39608	5557	150	385659	5557	150	0	196835
		385659								

FOR ADDITIONAL PAVEMENT MARKING QUANTITIES, SEE SCHEDULES FOR I-24 PAVEMENT MARKING - EAST BOUND LANES & I-24 PAVEMENT MARKING - WEST BOUND LANES

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Default	PLOT DATE = 10/21/2020	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING I
METROPOLIS INTERCHANGE

SCALE: | SHEET 6 OF 12 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
24	64(1,2,2-1,3-1,3)RS-2	MASSAC	263	41
		CONTRACT NO. 78606		
		ILLINOIS FED. AID PROJECT		

SCHEDULE FOR I-24 PAVEMENT MARKING - EAST BOUND LANES

FAI-24 - Mainline		COMMENTS	SECTION LENGTH (INFO ONLY)	SHORT TERM PAVEMENT MARKING		RAISED REFLECTIVE PAVEMENT MARKERS			RUMBLE STRIP 16"	DELINEATORS	
				3 APPS	REMOVAL	CRYSTAL	AMBER	REMOVAL		CRYSTAL	REMOVAL
	MP		FEET	FOOT	SQ FT	EACH		EACH	FOOT	EACH	EACH
I-24 EB Lanes											
RURAL 456+69.50											
EQ STA 456+69.50 BK = STA 50+54.47 AH	23.878	County Line									
STA 50+54.47 TO STA 95+85.00			4530.53	2446.5	815.5	56		56	9061.1	12	12
STA 95+85.00 TO STA 95+85.00	24.736	Overpass - SN 064-0013									
STA 95+85.00 TO STA 96+62.00			77.00	41.6	13.9	0		0	154.0	1	1
STA 96+62.00 TO STA 184+12.32			8750.32	4725.2	1575.1	109		109	17500.6	22	22
STA 184+12.32 TO STA 190+72.54		EB Exit Ramp Departure Area	660.22	356.5	118.8	8		8	660.2		
STA 190+72.54 TO STA 200+65.91			993.37	536.4	178.8	12		12	1986.7	3	3
STA 200+65.91 TO STA 201+16.37		Connector Pvmt & Approach Slab	50.46	27.2	9.1	0		0			
STA 201+16.37 TO STA 202+08.62	26.739	Bridge Omission - SN 064-0015	92.25	49.8	16.6	1		1			
STA 202+08.62 TO STA 202+61.58		Approach Slab & Connector Pvmt	52.96	28.6	9.5	0		0			
STA 202+61.58 TO STA 204+12.00			150.42	81.2	27.1	1		1	300.8	1	1
STA 204+12.00 TO STA 204+12.00	26.787	Overpass - SN 064-0016 Big Bay									
STA 204+12.00 TO STA 217+12.00			1300.00	702.0	234.0	16		16	2600.0	4	4
STA 217+12.00 TO STA 218+80.24			168.24	90.8	30.3	2		2	336.5	1	1
STA 218+80.24 TO STA 230+25.50		EB Entrance Ramp Merge Area	1145.26	618.4	206.1	14		14	1145.3		
STA 230+25.50 TO STA 253+33.57			2308.07	1246.4	415.5	28		28	4616.1	6	6
STA 253+33.57 TO STA 253+53.07		Approach Slab	19.50	10.5	3.5	0		0	39.0		
STA 253+53.07 TO STA 255+03.90	27.737	Bridge Omission - SN 064-0018	150.83	81.4	27.1	1		1			
STA 255+03.90 TO STA 255+23.40		Approach Slab	19.50	10.5	3.5	0		0	39.0		
STA 255+23.40 TO STA 298+95.00			4371.60	2360.7	786.9	54		54	8743.2	11	11
STA 298+95.00 TO STA 298+95.00	28.583	Overpass - SN 064-0019									
STA 298+95.00 TO STA 301+81.06			286.06	154.5	51.5	3		3	572.1	1	1
EQ STA 301+81.06 BK = STA 301+86.33 AH	28.637										
STA 301+86.33 TO STA 328+31.71			2645.38	1428.5	476.2	33		33	5290.8	7	7
STA 328+31.71 TO STA 328+84.92		Connector Pvmt & Approach Slab	53.21	28.7	9.6	0		0			
STA 328+84.92 TO STA 330+73.00	29.166	Bridge Omission - SN 064-0021	188.08	101.6	33.9	2		2			
STA 330+73.00 TO STA 331+29.35		Approach Slab & Connector Pvmt	56.35	30.4	10.1	0		0			
STA 331+29.35 TO STA 417+07.71			8578.36	4632.3	1544.1	107		107	17156.7	22	22
EQ STA 417+07.71 BK = STA 417+03.53 AH	30.819										
STA 417+03.53 TO STA 418+15.00			111.47	60.2	20.1	1		1	222.9	1	1
STA 418+15.00 TO STA 418+15.00	30.840	Overpass - SN 064-0022									
STA 418+15.00 TO STA 446+93.78			2878.78	1554.5	518.2	35		35	5757.6	8	8
EQ STA 446+93.78 BK = STA 32+66.19 AH	31.385										
STA 32+66.19 TO STA 93+66.61			6100.42	3294.2	1098.1	76		76	12200.8	16	16
STA 93+66.61 TO STA 94+17.08		Connector Pvmt & Approach Slab	50.47	27.3	9.1	0		0			
STA 94+17.08 TO STA 95+73.91	32.565	Bridge Omission - SN 064-0024	156.83	84.7	28.2	1		1			
STA 95+73.91 TO STA 96+26.88		Approach Slab & Connector Pvmt	52.97	28.6	9.5	0		0			
STA 96+26.88 TO STA 138+63.75			4236.87	2287.9	762.6	52		52	8473.7	11	11
STA 138+63.75 TO STA 139+09.68		Connector Pvmt & Approach Slab	45.93	24.8	8.3	0		0			
STA 139+09.68 TO STA 140+28.18	33.412	Bridge Omission - SN 064-0026	118.50	64.0	21.3	1		1			
STA 140+28.18 TO STA 140+76.29		Approach Slab & Connector Pvmt	48.11	26.0	8.7	0		0			
STA 140+76.29 TO STA 239+39.48			9863.19	5326.1	1775.4	123		123	19726.4	25	25
STA 239+39.48 TO STA 239+87.16		Connector Pvmt & Approach Slab	47.68	25.7	8.6	0		0			
STA 239+87.16 TO STA 241+17.66	35.322	Bridge Omission - SN 064-0045	130.50	70.5	23.5	1		1			
STA 241+17.66 TO STA 241+63.78		Approach Slab & Connector Pvmt	46.12	24.9	8.3	0		0			
STA 241+63.78 TO STA 280+00.00			3836.22	2071.6	690.5	47		47	7672.4	10	10
STA 280+00.00 TO STA 280+00.00	36.070	RURAL to URBAN									

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING II
EAST BOUND LANES

SCALE: | SHEET 7 OF 12 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
24	64(1,2,2-1,3-1,3)RS-2	MASSAC	263	42
		CONTRACT NO. 78606		
	ILLINOIS FED. AID PROJECT			

SCHEDULE FOR I-24 PAVEMENT MARKING - EAST BOUND LANES

FAI-24 - Mainline		COMMENTS	SECTION LENGTH (INFO ONLY)	SHORT TERM PAVEMENT MARKING		RAISED REFLECTIVE PAVEMENT MARKERS			RUMBLE STRIP 16"	DELINEATORS	
				3 APPS	REMOVAL	CRYSTAL	AMBER	REMOVAL		CRYSTAL	REMOVAL
	MP		FEET	FOOT	SQ FT	EACH		EACH	FOOT	EACH	EACH
I-24 EB Lanes											
STA 280+00.00 TO STA 280+00.00	36.070	RURAL to URBAN									
STA 280+00.00 TO STA 331+41.00			5141.00	2776.1	925.4	64		64	10282.0	13	13
STA 331+41.00 TO STA 338+26.50		EB Exit Ramp Departure Area	685.50	370.2	123.4	8		8	685.5		
STA 338+26.50 TO STA 350+00.36			1173.86	633.9	211.3	14		14	2347.7	3	3
STA 350+00.36 TO STA 350+00.36	37.395	Overpass - SN 064-0029 - US 45									
STA 350+00.36 TO STA 361+00.00			1099.64	593.8	197.9	13		13	2199.3	3	3
STA 361+00.00 TO STA 361+62.72			62.72	33.9	11.3	0		0	125.4	1	1
STA 361+62.72 TO STA 372+56.63		EB Entrance Ramp Merge Area	1093.91	590.7	196.9	13		13	1093.9		
STA 372+56.63 TO STA 400+07.11			2750.48	1485.3	495.1	34		34	5501.0	7	7
STA 400+07.11 TO STA 400+46.61		Connector Pvmt & Approach Slab	39.50	21.3	7.1	0		0			
STA 400+46.61 TO STA 401+58.44	38.362	Bridge Omission - SN 064-0030	111.83	60.4	20.1	1		1			
STA 401+58.44 TO STA 401+97.94		Approach Slab & Connector Pvmt	39.50	21.3	7.1	0		0			
STA 401+97.94 TO STA 412+17.42			1019.48	550.5	183.5	12		12	2039.0	3	3
STA 412+17.42 TO STA 412+56.92		Connector Pvmt & Approach Slab	39.50	21.3	7.1	0		0			
STA 412+56.92 TO STA 413+97.57	38.594	Bridge Omission - SN 064-0032	140.65	76.0	25.3	1		1			
STA 413+97.57 TO STA 414+37.07		Approach Slab & Connector Pvmt	39.50	21.3	7.1	0		0			
STA 414+37.07 TO STA 416+40.09			203.02	109.6	36.5	2		2	406.0	1	1
STA 416+40.09 TO STA 416+84.26		Connector Pvmt & Approach Slab	44.17	23.9	8.0	0		0			
STA 416+84.26 TO STA 417+87.84	38.671	Bridge Omission - SN 064-0034	103.58	55.9	18.6	1		1			
STA 417+87.84 TO STA 418+33.58		Approach Slab & Connector Pvmt	45.74	24.7	8.2	0		0			
STA 418+33.58 TO STA 427+34.85			901.27	486.7	162.2	11		11	1802.5	3	3
STA 427+34.85 TO STA 427+98.35		Approach Slab & Bridge Cell A	63.50	34.3	11.4	0		0	127.0		
STA 427+98.35	38.872	Improvement Ends									
EB LANES TOTAL				42752	14251	958	0	958	150865	196	196
WB LANES TOTALS - RURAL				34761	11587	784	0	784	124256	162	162
WB LANES TOTALS - URBAN				7991	2664	174	0	174	26609	34	34
WB LANES TOTALS				42752	14251	958	0	958	150865	196	196

FOR ADDITIONAL PAVEMENT MARKING QUANTITIES, SEE SCHEDULES FOR I-24 PAVEMENT MARKING - WEST BOUND LANES & I-24 PAVEMENT MARKING - INTERCHANGE RAMPS

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		DRAWN -	REVISED -		
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Default	PLOT DATE = 10/21/2020	DATE -	REVISED -		SCALE: SHEET 8 OF 12 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
24	64(1,2,2-1,3-1,3)RS-2	MASSAC	263	43
		CONTRACT NO. 78606		
	ILLINOIS FED. AID PROJECT			

SCHEDULE FOR I-24 PAVEMENT MARKING - WEST BOUND LANES

FAI-24 - Mainline		COMMENTS	SECTION LENGTH (INFO ONLY)	SHORT TERM PAVEMENT MARKING		RAISED REFLECTIVE PAVEMENT MARKERS			RUMBLE STRIP 16"	DELINEATORS	
				3 APPS	REMOVAL	CRYSTAL	AMBER	REMOVAL		CRYSTAL	REMOVAL
	MP		FEET	FOOT	SQ FT	EACH		EACH	FOOT	EACH	EACH
I-24 WB Lanes											
RURAL 456+69.50											
EQ STA 456+69.50 BK = STA 50+54.47 AH	23.878	County Line									
STA 50+54.47 TO STA 95+85.00			4530.53	2446.5	815.5	56		56	9061.1	12	12
STA 95+85.00 TO STA 95+85.00	24.736	Overpass - SN 064-0013									
STA 95+85.00 TO STA 179+18.00			8333.00	4499.8	1499.9	104		104	16666.0	1	1
STA 179+18.00 TO STA 180+11.84			93.84	50.7	16.9	1		1	187.7	22	22
STA 180+11.84 TO STA 192+00.80		WB Entrance Ramp Merge Area	1188.96	642.0	214.0	14		14	1189.0		
STA 192+00.80 TO STA 199+98.43			797.63	430.7	143.6	9		9	1595.3	3	3
STA 199+98.43 TO STA 200+51.39		Connector Pvmt & Approach Slab	52.96	28.6	9.5	0		0			
STA 200+51.39 TO STA 201+43.64	26.727	Bridge Omission - SN 064-0014	92.25	49.8	16.6	1		1			
STA 201+43.64 TO STA 201+94.10		Approach Slab & Connector Pvmt	50.46	27.2	9.1	0		0			
STA 201+94.10 TO STA 204+12.00			217.90	117.7	39.2	2		2	435.8	1	1
STA 204+12.00 TO STA 204+12.00	26.787	Overpass - SN 064-0016 Big Bay									
STA 204+12.00 TO STA 217+12.00			1300.00	702.0	234.0	16		16	2600.0	4	4
STA 217+12.00 TO STA 217+93.17			81.17	43.8	14.6	1		1	162.3	1	1
STA 217+93.17 TO STA 224+52.83		WB Exit Ramp Departure Area	659.66	356.2	118.7	8		8	659.7		
STA 224+52.83 TO STA 252+36.59			2783.76	1503.2	501.1	34		34	5567.5	6	6
STA 252+36.59 TO STA 252+56.09		Approach	19.50	10.5	3.5	0		0	39.0		
STA 252+56.09 TO STA 254+06.92	27.718	Bridge Omission - SN 064-0017	150.83	81.4	27.1	1		1			
STA 254+06.92 TO STA 254+26.42		Approach	19.50	10.5	3.5	0		0	39.0		
STA 254+26.42 TO STA 298+95.00			4468.58	2413.0	804.3	55		55	8937.2	11	11
STA 298+95.00 TO STA 298+95.00	28.583	Overpass - SN 064-0019									
STA 298+95.00 TO STA 301+81.06			286.06	154.5	51.5	3		3	572.1	1	1
EQ STA 301+81.06 BK = STA 1301+73.45 AH	28.637										
STA 1301+73.45 TO STA 1326+71.49			2498.04	1348.9	449.6	31		31	4996.1	7	7
STA 1326+71.49 TO STA 1327+24.69		Approach	53.20	28.7	9.6	0		0			
STA 1327+24.69 TO STA 1329+03.68	29.137	Bridge - SN 064-0020	178.99	96.7	32.2	2		2			
STA 1329+03.68 TO STA 1329+54.81		Approach	51.13	27.6	9.2	0		0			
STA 1329+54.81 TO STA 1417+84.96			8830.15	4768.3	1589.4	110		110	17660.3	22	22
EQ STA 1417+84.96 BK = STA 417+03.53 AH	30.836										
STA 417+03.53 TO STA 418+15.00			111.47	60.2	20.1	1		1	222.9	1	1
STA 418+15.00 TO STA 418+15.00	**30.840**	Overpass - SN 064-0022									
STA 418+15.00 TO STA 446+93.78			2878.78	1554.5	518.2	35		35	5757.6	8	8
EQ STA 446+93.78 BK = STA 32+66.19 AH	31.385										
STA 32+66.19 TO STA 92+99.12			6032.93	3257.8	1085.9	75		75	12065.9	16	16
STA 92+99.12 TO STA 93+52.09		Connector Pvmt & Approach Slab	52.97	28.6	9.5	0		0			
STA 93+52.09 TO STA 95+08.92	32.553	Bridge Omission - SN 064-0023	156.83	84.7	28.2	1		1			
STA 95+08.92 TO STA 95+55.12		Approach Slab & Connector Pvmt	46.20	24.9	8.3	0		0			
STA 95+55.12 TO STA 138+23.71			4268.59	2305.0	768.3	53		53	8537.2	11	11
STA 138+23.71 TO STA 138+71.82		Connector Pvmt & Approach Slab	48.11	26.0	8.7	0		0			
STA 138+71.82 TO STA 139+90.32	33.405	Bridge Omission - SN 064-0025	118.50	64.0	21.3	1		1			
STA 139+90.32 TO STA 140+36.25		Approach Slab & Connector Pvmt	45.93	24.8	8.3	0		0			
STA 140+36.25 TO STA 239+94.31			9958.06	5377.4	1792.5	124		124	19916.1	25	25
STA 239+94.31 TO STA 240+39.14		Connector Pvmt & Approach Slab	44.83	24.2	8.1	0		0			
STA 240+39.14 TO STA 241+69.64	35.332	Bridge Omission - SN 064-0046	130.50	70.5	23.5	1		1			
STA 241+69.64 TO STA 242+18.11		Approach Slab & Connector Pvmt	48.47	26.2	8.7	0		0			
STA 242+18.11 TO STA 280+00.00			3781.89	2042.2	680.7	47		47	7563.8	10	10
STA 280+00.00 TO STA 280+00.00	36.070	**Rural To Urban**									

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING II
WEST BOUND LANES

SCALE: | SHEET 9 OF 12 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
24	64(1,2,2-1,3-1,3)RS-2	MASSAC	263	44
		CONTRACT NO. 78606		
	ILLINOIS FED. AID PROJECT			

SCHEDULE FOR I-24 PAVEMENT MARKING - WEST BOUND LANES

FAI-24 - Mainline		COMMENTS	SECTION LENGTH (INFO ONLY)	SHORT TERM PAVEMENT MARKING		RAISED REFLECTIVE PAVEMENT MARKERS			RUMBLE STRIP 16"	DELINEATORS	
				3 APPS	REMOVAL	CRYSTAL	AMBER	REMOVAL		CRYSTAL	REMOVAL
	MP		FEET	FOOT	SQ FT	EACH		EACH	FOOT	EACH	EACH
I-24 WB Lanes											
STA 280+00.00 TO STA 280+00.00	36.070	Rural To Urban									
STA 280+00.00 TO STA 327+66.37			4766.37	2573.8	857.9	59		59	9532.7	13	13
STA 327+66.37 TO STA 338+66.70		WB Entrance Ramp Merge Area	1100.33	594.2	198.1	13		13	1100.3		
STA 338+66.70 TO STA 350+00.36			1133.66	612.2	204.1	14		14	2267.3	3	3
STA 350+00.36 TO STA 350+00.36	37.396	Overpass - SN 064-0029 - US 45									
STA 350+00.36 TO STA 361+00.00			1099.64	593.8	197.9	13		13	2199.3	3	3
STA 361+00.00 TO STA 363+43.80			243.80	131.7	43.9	3		3	487.6	1	1
STA 363+43.80 TO STA 370+27.20		WB Exit Ramp Departure Area	683.40	369.0	123.0	8		8	683.4		
STA 370+27.20 TO STA 400+07.40			2980.20	1609.3	536.4	37		37	5960.4	7	7
STA 400+07.40 TO STA 400+46.91		Connector Pvmt & Approach Slab	39.51	21.3	7.1	0		0			
STA 400+46.91 TO STA 401+58.74	38.362	Bridge Omission - SN 064-0031	111.83	60.4	20.1	1		1			
STA 401+58.74 TO STA 401+98.24		Approach Slab & Connector Pvmt	39.50	21.3	7.1	0		0			
STA 401+98.24 TO STA 412+15.51			1017.27	549.3	183.1	12		12	2034.5	3	3
STA 412+15.51 TO STA 412+55.01		Connector Pvmt & Approach Slab	39.50	21.3	7.1	0		0			
STA 412+55.01 TO STA 413+94.67	38.593	Bridge Omission - SN 064-0033	139.66	75.4	25.1	1		1			
STA 413+94.67 TO STA 414+34.17		Approach Slab & Connector Pvmt	39.50	21.3	7.1	0		0			
STA 414+34.17 TO STA 416+32.81			198.64	107.3	35.8	2		2	397.3	1	1
STA 416+32.81 TO STA 416+77.10		Connector Pvmt & Approach Slab	44.29	23.9	8.0	0		0			
STA 416+77.10 TO STA 417+81.02	38.670	Bridge Omission - SN 064-0034	103.92	56.1	18.7	1		1			
STA 417+81.02 TO STA 418+26.18		Approach Slab & Connector Pvmt	45.16	24.4	8.1	0		0			
STA 418+26.18 TO STA 427+34.85			908.67	490.7	163.6	11		11	1817.3	3	3
STA 427+34.85 TO STA 427+98.35		Approach Slab & Bridge Cell A	63.50	34.3	11.4	0		0	127.0		
STA 427+98.35	38.872	Improvement Ends									
WB LANES TOTAL				42801	14267	961	0	961	151039	196	196

WB LANES TOTALS - RURAL	34810	11603	786	0	786	124431	162	162
WB LANES TOTALS - URBAN	7991	2664	175	0	175	26607	34	34
WB LANES TOTALS	42801	14267	961	0	961	151039	196	196

FOR ADDITIONAL PAVEMENT MARKING QUANTITIES, SEE SCHEDULES FOR I-24 PAVEMENT MARKING - EAST BOUND LANES & I-24 PAVEMENT MARKING - INTERCHANGE RAMPS

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING II
WESTBOUND LANES

SCALE: | SHEET 10 OF 12 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
24	64(1,2,2-1,3-1,3)RS-2	MASSAC	263	45
		CONTRACT NO. 78606		
	ILLINOIS FED. AID PROJECT			

SCHEDULE FOR I-24 PAVEMENT MARKING - INTERCHANGE RAMPS

FAI-24 - Ramps	MP	COMMENTS	SECTION LENGTH (INFO ONLY)	SHORT TERM PAVEMENT MARKING		RAISED REFLECTIVE PAVEMENT MARKERS			RUMBLE STRIP 16"	DELINEATORS		
				3 APPS	REMOVAL	CRYSTAL	AMBER	REMOVAL		CRYSTAL	AMBER	REMOVAL
			FEET	FOOT	SQ FT	EACH		EACH	FOOT	EACH	EACH	EACH
BIG BAY INTERCHANGE - RURAL												
RAMP A Begins 0+11.00		WB Entrance Ramp (Big Bay Rd)										
STA 0+11.00 TO STA 1+02.89		CADD Measured	91.89						183.8			
STA 1+02.89 TO STA 2+60.00		Ramp	157.11	25.1	8.4				314.2			
STA 2+60.00 TO STA 3+61.30		HMA Matt Area	101.30	16.2	5.4				202.6			
STA 3+61.30 TO STA 4+41.54		BRIDGE	80.24	12.8	4.3							
STA 4+41.54 TO STA 5+42.00		HMA Matt Area	100.46	16.1	5.4				200.9			
STA 5+42.00 TO STA 10+00.00		Ramp	458.00	73.3	24.4				916.0	1	1	2
STA 10+00.00 TO STA 11+50.00		Ramp	150.00	24.0	8.0		5	5	300.0	2	2	4
STA 11+50.00 BK = STA 192+00.80 AH		Stationing Switch										
STA 192+00.80 TO STA 187+60.00		Gore Area	440.80	123.4	41.1	33		33	440.8	5		5
STA 187+60.00 TO STA 180+11.84		Merge Area	748.16	59.9	20.0	18		18	748.2	8		8
RAMP B Begins 224+52.83		WB Exit Ramp (Big Bay Rd)										
STA 224+52.83 TO STA 221+72.00		Departure Area	280.83	22.5	7.5	7		7	280.8	3		3
STA 221+72.00 TO STA 217+93.17		Gore Area	378.83	106.1	35.4	27		27	378.8	4		4
STA 217+93.17 BK = STA 0+00.00 AH		Stationing Switch										
STA 0+00.00 BK = STA 1+00.00		Ramp	100.00						200.0	2	2	4
STA 1+00.00 BK = STA 15+51.64		Ramp	1451.64	232.3	77.4		10	10	2903.3	4	4	8
STA 15+51.64 TO STA 16+54.00		CADD Measured	102.36						204.7			
RAMP C Begins 0+11.00		EB Entrance Ramp (Big Bay Rd)										
STA 0+11.00 TO STA 1+05.00		CADD Measured	94.00						188.0			
STA 1+05.00 TO STA 12+50.00		Ramp	1145.00	183.2	61.1				2290.0	1	1	2
STA 12+50.00 TO STA 13+67.17		Ramp	117.17	18.7	6.2		5	5	234.3	2	2	4
STA 13+67.17 BK = STA 218+80.24 AH		Stationing Switch										
STA 218+80.24 TO STA 222+96.00		Gore Area	415.76	116.4	38.8	30		30	415.8	5		5
STA 222+96.00 TO STA 230+25.50		Merge Area	729.50	58.4	19.5	18		18	729.5	8		8
RAMP D Begins 184+12.32		EB Exit Ramp (Big Bay Rd)										
STA 184+12.32 TO STA 186+90.00		Departure Area	277.68	22.2	7.4	6		6	277.7	3		3
STA 186+90.00 TO STA 190+72.54		Gore Area	382.54	107.1	35.7	27		27	382.5	4		4
STA 190+72.54 BK = STA 0+00.00 AH		Stationing Switch										
STA 0+00.00 BK = STA 2+50.00		Ramp	250.00	40.0	13.3				500.0	3	3	6
STA 2+50.00 BK = STA 12+45.00		Ramp	995.00	159.2	53.1		12	12	1990.0	2	2	4
STA 12+45.00 BK = STA 13+46.60		HMA Matt Area	101.60	16.3	5.4				203.2			
STA 13+46.60 BK = STA 14+75.00		BRIDGE	128.40	20.5	6.8							
STA 14+75.00 TO STA 15+47.00		HMA Matt Area	72.00	11.5	3.8				144.0			
STA 15+47.00 TO STA 16+38.50		CADD Measured	91.50						183.0			

CONTINUED NEXT SHEET

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING II
BIG BAY INTERCHANGE

SCALE: | SHEET 11 OF 12 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
24	64(1,2,2-1,3-1,3)RS-2	MASSAC	263	46
		CONTRACT NO. 78606		
	ILLINOIS FED. AID PROJECT			

SCHEDULE FOR I-24 PAVEMENT MARKING - INTERCHANGE RAMPS

FAI-24 - Ramps		COMMENTS	SECTION LENGTH (INFO ONLY)	SHORT TERM PAVEMENT MARKING		RAISED REFLECTIVE PAVEMENT MARKERS			RUMBLE STRIP 16"	DELINEATORS		
				3 APPS	REMOVAL	CRYSTAL	AMBER	REMOVAL		CRYSTAL	AMBER	REMOVAL
	MP		FEET	FOOT	SQ FT	EACH		EACH	FOOT	EACH	EACH	EACH
US 45 INTERCHANGE - URBAN												
RAMP A Begins 0+33.00		WB Entrance Ramp (US 45)										
STA 0+33.00 TO STA 1+19.00		By Others	86.00									
STA 1+19.00 TO STA 12+86.00		Ramp	1167.00	186.7	62.2				2334.0	4	4	8
STA 12+86.00 TO STA 13+87.42		Ramp	101.42	16.2	5.4		13	13	202.8	2	2	4
STA 13+87.42 BK = STA 338+66.70 AH		Stationing Switch										
STA 338+66.70 TO STA 336+26.00		Gore Area	240.70	67.4	22.5	18		18	240.7	3		3
STA 336+26.00 TO STA 327+66.37		Merge Area	859.63	68.8	22.9	21		21	859.6	9		9
RAMP B Begins 370+27.20		WB Exit Ramp (US 45)										
STA 370+27.20 = STA 367+00.00		Departure Area	327.20	26.2	8.7	8		8	327.2	4		4
STA 367+00.00 = STA 363+43.80		Gore Area	356.20	99.7	33.2	24		24	356.2	4		4
STA 363+43.80 BK TO STA 6+74.40 AH		Stationing Switch										
STA 6+74.40 BK TO STA 7+65.00		Ramp	90.60	14.5	4.8				181.2	1	1	2
STA 7+65.00 BK TO STA 20+50.00		Ramp	1285.00	205.6	68.5		15	15	2570.0	5	5	10
STA 20+50.00 = STA 21+73.05		By Others	123.05									
RAMP C Begins 0+33.00		EB Entrance Ramp (US 45)										
STA 0+33.00 TO STA 1+63.00		By Others	130.00									
STA 1+63.00 TO STA 13+17.00		Ramp	1154.00	184.6	61.5				2308.0	5	5	10
STA 13+17.00 TO STA 14+16.91		Ramp	99.91	16.0	5.3		13	13	199.8	1	1	2
STA 14+16.91 BK = STA 361+62.72 AH		Stationing Switch										
STA 361+62.72 TO STA 363+06.00		Gore Area	143.28	40.1	13.4	9		9	143.3	2		2
STA 363+06.00 TO STA 372+56.63		Merge Area	950.63	76.1	25.4	23		23	950.6	10		10
RAMP D Begins 331+41.00		EB Exit Ramp (US 45)										
STA 331+41.00 TO STA 334+06.00		Departure Area	265.00	21.2	7.1	6		6	265.0	3		3
STA 334+06.00 TO STA 338+26.50		Gore Area	420.50	117.7	39.2	30		30	420.5	5		5
STA 338+26.50 BK = STA 6+82.00 AH		Stationing Switch										
STA 6+82.00 TO STA 7+75.00		Ramp	93.00	14.9	5.0				186.0	1	1	2
STA 7+75.00 TO STA 19+00.00		Ramp	1125.00	180.0	60.0		14	14	2250.0	5	5	10
STA 19+00.00 TO STA 20+00.80		By Others	100.80									
		RAMPS TOTAL	18560.69	2801	934	305	87	392	28607	121	41	162
		WB LANES TOTALS - RURAL		1465	488	166	32	198	14812	57	17	74
		WB LANES TOTALS - URBAN		1336	445	139	55	194	13795	64	24	88
		WB LANES TOTALS		2801	934	305	87	392	28607	121	41	162
		PROJECT TOTAL - RURAL		71036	23679	1736	32	1768	263500	381	17	398
		PROJECT TOTAL - URBAN		17318	5773	488	55	543	67012	132	24	156
		PROJECT TOTAL		88354	29451	2224	87	2311	330511	513	41	554
						2311				554		

FOR ADDITIONAL PAVEMENT MARKING QUANTITIES, SEE SCHEDULES FOR I-24 PAVEMENT MARKING - EAST BOUND LANES & I-24 PAVEMENT MARKING - WEST BOUND LANES

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING Ii
METROPOLIS INTERCHANGE

SCALE: | SHEET 12 OF 12 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
24	64(1,2,2-1,3-1,3)RS-2	MASSAC	263	47
		CONTRACT NO. 78606		
		ILLINOIS FED. AID PROJECT		

PAVEMENT PATCHING - CLASS A

INITIAL PATCHING SURVEY		PATCH DETAILS			CLASS A PATCHING					
				INFO	PVMT	PVMT	PVMT			
PATCH NO	MP COMMENT LANE	WIDTH	LENGTH	AREA	PATCHES TY I-12"	PATCHES TY II-12"	PATCHES TY IV-12"	SAW CUTS	TIE BARS	PATCHING REINFORCEMENT
		FT	FT	SQ YD	SQ YD	SQ YD	SQ YD	FOOT	EACH	SQ YD
EB I-24 RURAL										
1	24.22	12	6	8.00		8		60		8
2	24.49	6	6	4.00	4.0			36		4
3	24.50	12	6	8.00		8		60		8
4	24.53	8	6	5.33		6		44		6
5	24.55	12	6	8.00		8		60		8
6	25.01	12	6	8.00		8		60		8
7	26.02	7	7	5.44		6		42		6
8	26.03	6	6	4.00	4.0			36		4
9	26.22	8	8	7.11		8		48		8
10	26.28	12	8	10.67		11		64		11
11	26.56	6	8	5.33		6		40		6
12	26.81	6	6	4.00	4.0			36		4
13	27.72	8	8	7.11		8		48		8
14	27.92	6	6	4.00	4.0			36		4
15	28.57	8	6	5.33		6		44		6
16	28.78	6	40	26.67			27	104	38	27
17	28.80	6	40	26.67			27	104	38	27
18	28.99	6	40	26.67			27	104	38	27
19	29.00	6	40	26.67			27	104	38	27
20	30.44	6	6	4.00	4.0			36		4
21	30.65	6	20	13.33		14		64	18	14
22	31.36	8	8	7.11		8		48		8
23	31.48	12	6	8.00		8		60		8
24	31.64	6	6	4.00	4.0			36		4
25	31.67	12	6	8.00		8		60		8
26	31.68	8	6	5.33		6		44		6
27	31.73	6	6	4.00	4.0			36		4
28	31.75	6	20	13.33		14		64	18	14
29	31.87	6	48	32.00			32	120	46	32
30	31.91	6	6	4.00	4.0			36		4
31	31.93	8	6	5.33		6		44		6
32	32.54	12	40	53.33			54	128	19	54
33	32.72	6	6	4.00	4.0			36		4
34	32.77	6	6	4.00	4.0			36		4
35	33.33	12	8	10.67		11		64		11
36	33.33	12	6	8.00		8		60		8
37	33.34	12	6	8.00		8		60		8
38	33.35	12	6	8.00		8		60		8
39	33.36	12	6	8.00		8		60		8
40	33.37	12	6	8.00		8		60		8
41	33.38	12	8	10.67		11		64		11
42	34.54	8	8	7.11		8		48		8
43	35.60	8	8	7.11		8		48		8
44	35.63	6	6	4.00	4.0			36		4

PAVEMENT PATCHING - CLASS A

INITIAL PATCHING SURVEY		PATCH DETAILS			CLASS A PATCHING					
				INFO	PVMT	PVMT	PVMT			
PATCH NO	MP COMMENT LANE	WIDTH FT	LENGTH FT	AREA SQ YD	PATCHES TY I-12" SQ YD	PATCHES TY II-12" SQ YD	PATCHES TY IV-12" SQ YD	SAW CUTS FOOT	TIE BARS EACH	PATCHING REINFORCEMENT SQ YD
WB	**I-24 RURAL**									
54	24.31	6	6	4.00	4.0			36		4
55	24.33	6	40	26.67			27	104		27
56	24.42	6	40	26.67			27	104		27
57	24.51	8	15	13.33		14		62		14
58	24.69	6	40	26.67			27	104		27
59	24.70	6	6	4.00	4.0			36		4
60	24.71	6	8	5.33		6		40		6
61	24.99	12	6	8.00		8		60		8
62	25.05	12	6	8.00		8		60		8
63	25.15	6	20	13.33		14		64		14
64	25.18	6	6	4.00	4.0			36		4
65	25.47	8	8	7.11		8		48		8
66	25.50	6	15	10.00		10		54		10
67	25.53	6	6	4.00	4.0			36		4
68	25.54	6	6	4.00	4.0			36		4
69	25.68	6	6	4.00	4.0			36		4
70	26.12	6	6	4.00	4.0			36		4
71	26.17	6	6	4.00	4.0			36		4
72	26.21	6	6	4.00	4.0			36		4
73	26.26	6	6	4.00	4.0			36		4
74	26.29	8	8	7.11		8		48		8
75	26.33	6	6	4.00	4.0			36		4
76	26.34	6	80	53.33			54	184		54
77	26.37	6	6	4.00	4.0			36		4
78	26.39	6	6	4.00	4.0			36		4
79	26.54	6	40	26.67			27	104		27
80	28.59	6	6	4.00	4.0			36		4
81	29.92	6	6	4.00	4.0			36		4
82	29.98	12	6	8.00		8		60		8
83	29.98	12	8	10.67		11		64		11
84	30.40	12	6	8.00		8		60		8
85	31.53	12	6	8.00		8		60		8
86	31.85	8	6	5.33		6		44		6
87	31.97	12	6	8.00		8		60		8
88	32.00	12	8	10.67		11		64		11
89	33.40	6	20	13.33		14		64		14
90	33.52	12	6	8.00		8		60		8
91	33.55	6	20	13.33		14		64		14
92	33.67	6	30	20.00				84		20
93	33.67	12	6	8.00		8		60		8
94	34.74	12	6	8.00		8		60		8

PAVEMENT PATCHING - CLASS A

INITIAL PATCHING SURVEY		PATCH DETAILS			CLASS A PATCHING					
				INFO	PVMT	PVMT	PVMT			
PATCH NO	MP COMMENT LANE	WIDTH	LENGTH	AREA	PATCHES TY I-12"	PATCHES TY II-12"	PATCHES TY IV-12"	SAW CUTS	TIE BARS	PATCHING REINFORCEMENT
		FT	FT	SQ YD	SQ YD	SQ YD	SQ YD	FOOT	EACH	SQ YD
EB I-24 URBAN										
45	36.17	12	6	8.00		8		60		8
46	36.19	8	8	7.11		8		48		8
47	36.38	8	8	7.11		8		48		8
48	37.04	8	8	7.11		8		48		8
49	37.14	8	8	7.11		8		48		8
50	37.33	8	8	7.11		8		48		8
51	38.46	12	8	10.67		11		64		11
52	38.56	12	8	10.67		11		64		11
53	38.56	6	40	26.67			27	104	38	27
BIG BAY INTERCHANGE RAMPS - RURAL										
		12	8	10.67		11		64		11
		12	8	10.67		11		64		11
		12	8	10.67		11		64		11
		12	8	10.67		11		64		11
		12	8	10.67		11		64		11
		12	6	8.00		8		60		8
		12	6	8.00		8		60		8
		12	6	8.00		8		60		8
METROPOLIS INTERCHANGE RAMPS - URBAN										
		12	8	10.67		11		64		11
		12	8	10.67		11		64		11
		12	8	10.67		11		64		11
		12	8	10.67		11		64		11
		12	6	8.00		8		60		8
		12	6	8.00		8		60		8
		12	6	8.00		8		60		8
		12	6	8.00		8		60		8
				TOTALS	104	638	383	6446	291	1145

RURAL TOTALS	104	492	356	5418	253	972
URBAN TOTALS		146	27	1028	38	173
PROJECT TOTALS	104	638	383	6446	291	1145

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PAVEMENT PATCHING
CLASS A

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
24	64(1,2,2-1,3-1,3)RS-2	MASSAC	263	50
		CONTRACT NO. 78606		
		ILLINOIS	FED. AID PROJECT	

GUARDRAIL REPLACEMENT - EAST BOUND LANES

FAI-24						GRDRAIL REMOVAL	SPBG TYPE A 6 FOOT POSTS	TRAF BAR TERMINAL TYPE 1 (SPECIAL) TANGENT	TRAF BAR TERM TYPE 2	TRAF BAR TERM TYPE 6	TRAF BAR TERM TYPE 5	TERM MRK DIRECT APPLIED	GRDRAIL REFLECT TYPE A	CONCRETE STRUCT	REINF BARS EPOXY CTD	CONCRETE CURB TYPE B
				MP	COMMENT	FOOT	FOOT	EACH	EACH	EACH	EACH	EACH	EACH	CU YD	LB	FOOT
I-24 EB Lanes																
RURAL			456+69.50 BK		Improvement Begins											
EQ STA	456+69.50 BK =	STA	50+54.47 AH	23.92	County Line											
STA	198+30.97	TO STA	201+17.87		Outside GR	286.90	200.0	1		1		1	6			
STA	198+35.50	TO STA	200+97.37		Median GR	261.87	212.5	1		1		1	6			
STA	201+16.37	TO STA	202+08.62	26.78	Bridge - SN 064-0015											
					FOR EXIT RAMP BRIDGE	198.80	25.0	2		2		2	6			
STA	253+53.07	TO STA	255+03.90	27.78	Bridge - SN 064-0018											
EQ STA	301+81.06 BK =	STA	301+86.33 AH	28.68												
STA	198+06.97	TO STA	201+18.87		Outside GR	311.90	225.0	1		1		1	7			
STA	198+30.97	TO STA	200+92.87		Median GR	261.90	212.5	1		1		1	6			
STA	328+84.92	TO STA	330+73.00	29.21	Bridge - SN 064-0021											
EQ STA	417+07.71 BK =	STA	417+03.53 AH	30.86												
EQ STA	446+93.78 BK =	STA	32+66.19 AH	31.43												
STA	90+30.66	TO STA	94+17.58		Outside GR	386.92	300.0	1		1		1	8			
STA	91+21.20	TO STA	93+95.58		Median GR	274.38	212.5	1		1		1	6			
STA	94+17.08	TO STA	95+73.91	32.61	Bridge - SN 064-0024											
STA	95+97.41	TO STA	96+49.91		Outside GR	52.50	25.0		1		1		2	0.1	15	15
STA	136+67.23	TO STA	139+04.18		Outside GR	236.95	150.0	1		1		1	5			
STA	136+31.29	TO STA	138+93.18		Median GR	261.89	212.5	1		1		1	6			
STA	139+09.68	TO STA	140+28.18	33.45	Bridge - SN 064-0026											
STA	140+45.68	TO STA	141+98.18		Outside GR	152.50	125.0		1		1		4	0.1	15	15
STA	239+87.16	TO STA	241+17.66	35.36	Bridge - SN 064-0045											
URBAN																
STA	397+62.21	TO STA	400+36.61		Outside GR	274.40	187.5	1		1		1	6			15
STA	397+74.71	TO STA	400+36.61		Median GR	261.90	212.5	1		1		1	6			15
STA	400+46.61	TO STA	401+58.44	38.40	Bridge - SN 064-0030											
	401+68.44		412+46.92		Outside GR	1078.48	1004.7		1		1		21			
STA	408+60.02	TO STA	412+46.92		Median GR	386.90	300.0	1		1		1	8			15
STA	412+56.92	TO STA	413+97.57	38.64	Bridge - SN 064-0032											
	414+07.57		416+50.00		Median GR	242.43	205.5			1			5	0.1	15	15
STA	414+07.57	TO STA	416+77.26		Outside GR	269.69	195.9			2			6	0.1	15	30
STA	416+84.26	TO STA	417+87.84	38.71	Bridge - SN 064-0034											
STA	418+00.84	TO STA	427+64.85		Outside GR	964.01	890.2			2			20	0.4	55	30
		STA	427+64.85	38.91	Improvement Ends											
					EB LANES TOTAL	6164	4896.3	13		18		13	134	0.8	115	150.0

FOR ADDITIONAL GUARDRAIL QUANTITIES, SEE SCHEDULE FOR I-24 GUARDRAIL - WEST BOUND LANES

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GUARDRAIL REPLACEMENT
I-24 EAST BOUND LANES

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
24	64(1,2,2-1,3-1,3)RS-2	MASSAC	263	51
		CONTRACT NO. 78606		
		ILLINOIS FED. AID PROJECT		

GUARDRAIL REPLACEMENT - WEST BOUND LANES

FAI-24														
				MP	COMMENT	GRDRAIL REMOVAL	SPBG TYPE A 6 FOOT POSTS	TRAF BAR TERMINAL TYPE 1 (SPECIAL) TANGENT	TRAF BAR TERM TYPE 2	TRAF BAR TERM TYPE 6	TRAF BAR TERM TYPE 5	TERM MRK DIRECT APPLIED	GRDRAIL REFLECT TYPE A	CONCRETE STRUCT	REINF BARS EPOXY CTD	CONCRETE CURB TYPE B
						FOOT	FOOT	EACH	EACH	EACH	EACH	EACH	EACH	CU YD	LB	LB
I-24 WB Lanes																
RURAL			456+69.50	BK	Improvement Begins											
EQ STA	456+69.50	BK = STA	50+54.47	AH	County Line											
STA	200+51.39	TO STA	201+43.64	26.77	Bridge - SN 064-0014											
STA	201+45.14	TO STA	204+07.04		Median	261.90	212.5	1		1		1	6			
STA	201+43.64	TO STA	203+93.04		Outside	249.40	162.5	1		1		1	5			
STA	252+56.09	TO STA	254+06.92	27.76	Bridge - SN 064-0017											
EQ STA	301+81.06	BK = STA	1301+73.45	AH 28.68												
STA	1327+24.69	TO STA	1329+03.68	29.18	Bridge - SN 064-0020											
STA	1329+25.18	TO STA	1331+87.08		Median	261.90	212.5	1		1		1	6			
STA	1329+03.18	TO STA	1332+27.58		Outside	324.40	237.5	1		1		1	7			
EQ STA	1417+84.96	BK = STA	417+03.53	AH 30.88												
EQ STA	446+93.78	BK = STA	32+66.19	AH 31.44												
STA	92+14.09	TO STA	93+29.09		Outside GR	115.00	87.5		1		1		3	0.1	15	15
STA	93+52.09	TO STA	95+08.92	32.61	Bridge - SN 064-0023											
STA	95+29.92	TO STA	97+91.82		Median GR	261.90	212.5	1		1		1	6			
STA	95+08.92	TO STA	98+58.32		Outside GR	349.40	262.5	1		1		1				
STA	138+03.32	TO STA	138+53.32		Outside GR	50.00	22.5		1		1		2	0.1	15	15
STA	138+71.82	TO STA	139+90.32	33.46	Bridge - SN 064-0025											
STA	140+05.82	TO STA	142+55.17		Median GR	249.35	212.5	1		1		1	6			
STA	139+94.82	TO STA	144+44.22		Outside GR	449.40	362.5	1		1		1	9			
STA	240+39.14	TO STA	241+69.64	35.39	Bridge - SN 064-0046											
URBAN																
STA	400+46.91	TO STA	401+58.74	38.42	Bridge - SN 064-0031											
STA	401+68.74	TO STA	404+30.64		Median	261.90	212.5	1		1		1	6			15
STA	401+68.74	TO STA	404+43.14		Outside	274.40	187.5	1		1		1	6			15
STA	410+30.01	TO STA	412+45.01		Median	215.00	187.5		1		1		5			
STA	407+05.01	TO STA	412+45.01		Outside	540.00	512.5		1		1		11	0.1	15	
STA	412+55.01	TO STA	413+94.67	38.65	Bridge - SN 064-0033											
STA	413+84.67	TO STA	416+50.00		Median	265.33	228.4			1			6			15
STA	414+04.67	TO STA	416+64.10		Outside	259.43	185.6			2			6	0.1	15	30
STA	416+77.10	TO STA	417+81.02	38.73	Bridge - SN 064-0034											
STA	417+88.02	TO STA	427+64.85		Outside	951.83	878.0			2			20	0.3	40	30
		STA	427+64.85	38.93	Improvement Ends											
					WB LANES TOTAL	5539	4402.0	12	4	17	4	12	116			135.0

FOR ADDITIONAL GUARDRAIL QUANTITIES, SEE SCHEDULE FOR I-24 GUARDRAIL - EAST BOUND LANES

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GUARDRAIL REPLACEMENT
I-24 WEST BOUND LANES

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
24	64(1,2,2-1,3-1,3)RS-2	MASSAC	263	52
		CONTRACT NO. 78606		
		ILLINOIS FED. AID PROJECT		

GUARDRAIL REPLACEMENT - PROJECT TOTALS

FAI-24			GRDRAIL REMOVAL	SPBG TYPE A 6 FOOT POSTS	TRAF BAR TERMINAL TYPE 1 (SPECIAL) TANGENT	TRAF BAR TERM TYPE 2	TRAF BAR TERM TYPE 6	TRAF BAR TERM TYPE 5	TERM MRK DIRECT APPLIED	GRDRAIL REFLECT TYPE A	CONCRETE STRUCT	REINF BARS EPOXY CTD	CONCRETE CURB TYPE B
	MP	COMMENT	FOOT	FOOT	EACH	EACH	EACH	EACH	EACH	EACH	CU YD	LB	LB
		RURAL TOTALS	5458	3910	20	4	20	4	20	118	0	60	60
		URBAN TOTALS	6246	5388	5	3	15	3	5	132	1	155	225
		PROJECT TOTALS	11704	9298	25	7	35	7	25	250	2	215	285

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						24	64(1,2,2-1,3-1,3)RS-2	MASSAC	263	53
								CONTRACT NO. 78606		
							ILLINOIS FED. AID PROJECT			

SCHEDULE FOR I-24 MEDIAN CROSSOVERS

FAI-24					MEDIAN WIDTH (INFO ONLY) SHLD TO SHLD	TOTAL AREA (INFO ONLY)	HMA SURFACE REMOVAL 1"	POLY BIT MATLS TACK CT	INCIDENTAL HMA SURFACE 1 1/2
			MP	COMMENT	FEET	SQ YD	SQ YD	POUND	TON
I-24 EB Lanes									
		456+69.50 BK		Improvement Begins					
EQ STA 456+69.50 BK =	STA	50+54.47 AH	23.920	County Line					
STA 50+54.47	TO STA	54+50.00							
STA 54+50.00	TO STA	54+50.00	23.995	**CrossOver - Rural**	68.0	219.5	220	99	19
STA 54+50.00	TO STA	184+12.32							
STA 184+12.32	TO STA	190+72.54		Off Ramp Departure Area					
STA 190+72.54	TO STA	201+16.37							
STA 201+16.37	TO STA	202+08.62	26.781	Bridge - SN 064-0015					
STA 202+08.62	TO STA	218+80.24							
STA 218+80.24	TO STA	230+39.30		On Ramp Merge Area					
STA 230+39.30	TO STA	253+53.07							
STA 253+53.07	TO STA	255+03.90	27.779	Bridge - SN 064-0018					
STA 255+03.90	TO STA	290+80.00							
STA 290+80.00	TO STA	290+80.00	28.470	**CrossOver - Rural**	70.0	224.8	225	102	19
STA 290+80.00	TO STA	301+81.06							
EQ STA 301+81.06 BK =	STA	301+86.33 AH	28.679						
STA 301+86.33	TO STA	328+84.92							
STA 328+84.92	TO STA	330+73.00	29.208	Bridge - SN 064-0021					
STA 330+73.00	TO STA	417+07.71							
EQ STA 417+07.71 BK =	STA	417+03.53 AH	30.861						
STA 417+03.53	TO STA	446+93.78							
EQ STA 446+93.78 BK =	STA	32+66.19 AH	31.427						
STA 32+66.19	TO STA	35+10.00							
STA 35+10.00	TO STA	35+10.00	31.473	**CrossOver - Rural**	68.0	219.5	220	99	19
STA 35+10.00	TO STA	94+17.08							
STA 94+17.08	TO STA	95+73.91	32.607	Bridge - SN 064-0024					
STA 95+73.91	TO STA	139+09.68							
STA 139+09.68	TO STA	140+28.18	33.454	Bridge - SN 064-0026					
STA 140+28.18	TO STA	194+80.00							
STA 194+80.00	TO STA	194+80.00	34.498	**CrossOver - Rural**	68.0	219.5	220	99	19
STA 194+80.00	TO STA	239+87.16							
STA 239+87.16	TO STA	241+17.66	35.364	Bridge - SN 064-0027					
STA 241+17.66	TO STA	331+41.00							
STA 331+41.00	TO STA	338+08.40		Off Ramp Departure Area					
STA 338+08.40	TO STA	361+62.72							
STA 361+62.72	TO STA	372+56.63		On Ramp Merge Area					
STA 372+56.63	TO STA	388+95.00							
STA 388+95.00	TO STA	388+95.00	38.175	**CrossOver - Urban**	67.0	216.8		98	19
STA 388+95.00	TO STA	400+46.61							
STA 400+46.61	TO STA	401+58.44	38.404	Bridge - SN 064-0030					
STA 401+58.44	TO STA	412+56.92							
STA 412+56.92	TO STA	413+97.57	38.636	Bridge - SN 064-0032					
STA 413+97.57	TO STA	416+84.26							
STA 416+84.26	TO STA	417+87.84	38.713	Bridge - SN 064-0034					
STA 417+87.84	TO STA	427+74.85							
	STA	427+74.85	38.910	Improvement Ends					
				EB LANES TOTAL			885.0	497.0	95

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		DRAWN -	REVISED -					24	64(1,2,2-1,3-1,3)RS-2	MASSAC	263	54
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PAVEMENT MARKING FOR STATE POLICE SPEED ZONES

FAI-24		SECTION LENGTH (INFO ONLY)	THERMOPLASTIC PAVEMENT MARKING LINE 12"	GROOVING FOR RECESSED PAVEMENT MARKING 13"	TEMP PAVEMENT MARKING REMOVAL
KNOWN STATE POLICE SPEED ZONE MARKINGS	MP	COMMENT	FOOT	FOOT	SQ FT
I-24 EB Lanes					
* -- STA 188+90.00	26.5		12	12	12
* -- STA 195+50.00	26.7	Speed Zone = 660 (	12	12	12
* -- STA 288+80.00	36.3		12	12	12
* -- STA 295+40.00	36.4	Speed Zone = 660 (	12	12	12
I-24 WB Lanes					
* -- STA 188+90.00	26.5		12	12	12
* -- STA 195+50.00	26.7	Speed Zone = 660 (	12	12	12
* -- STA 288+80.00	36.3		12	12	12
* -- STA 295+40.00	36.4	Speed Zone = 660 (	12	12	12
		I-24 TOTALS	96	96	96

RURAL TOTAL	48	48	48
URBAN TOTAL	48	48	48
PROJECT TOTAL	96	96	96

ALL STATE POLICE SPEED ZONE MARKINGS SHOULD BE MARKED AND REPLACED AT EXACT LOCATIONS

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		DRAWN -	REVISED -			24	64(1,2,2-1,3-1,3)RS-2	MASSAC	263	55
	PLOT SCALE = 100.0000 ' / In.	CHECKED -	REVISED -					CONTRACT NO. 78606		
Default	PLOT DATE = 10/21/2020	DATE -	REVISED -		SCALE: SHEET 1 OF 1 SHEETS STA. TO STA.			ILLINOIS FED. AID PROJECT		

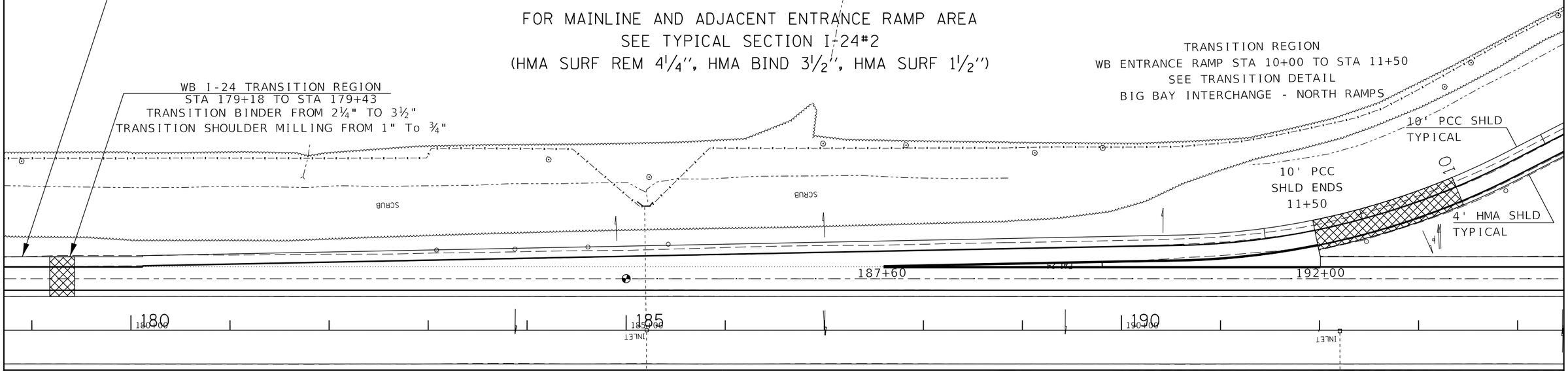
SEE TYPICAL SECTION I-24#1
(HMA SURF REM 3¼", HMA BIND 2¼", HMA SURF 1½")

FOR BIG BAY RD TO WB I-24 ENTRANCE RAMP
SEE TYPICAL SECTION FOR
BIG BAY INTERCHANGE RAMPS
(HMA BIND 1¼", HMA SURF 1½")

FOR MAINLINE AND ADJACENT ENTRANCE RAMP AREA
SEE TYPICAL SECTION I-24#2
(HMA SURF REM 4¼", HMA BIND 3½", HMA SURF 1½")

WB I-24 TRANSITION REGION
STA 179+18 TO STA 179+43
TRANSITION BINDER FROM 2¼" TO 3½"
TRANSITION SHOULDER MILLING FROM 1" To ¾"

TRANSITION REGION
WB ENTRANCE RAMP STA 10+00 TO STA 11+50
SEE TRANSITION DETAIL
BIG BAY INTERCHANGE - NORTH RAMPS

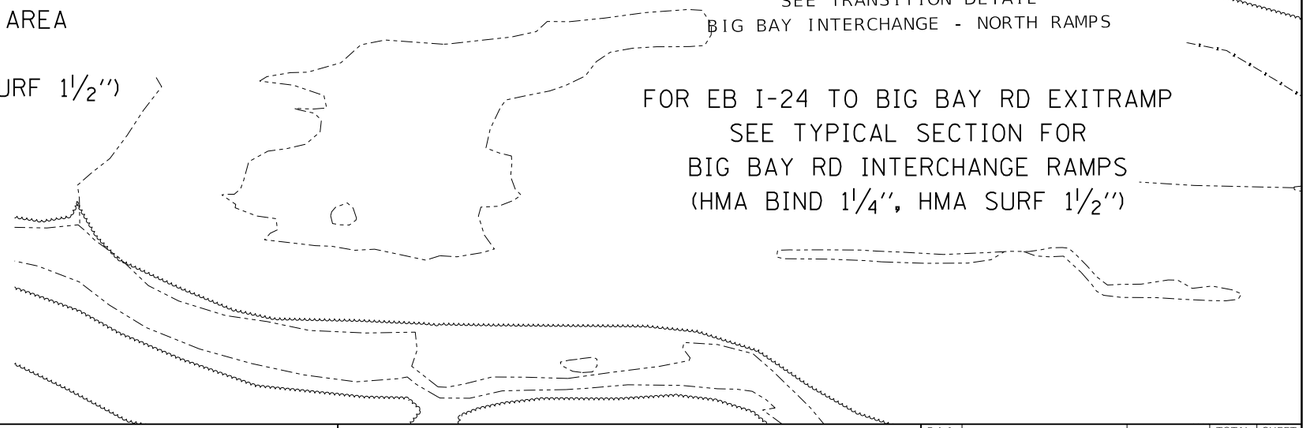


NOT SHOWN
EB I-24 TRANSITION REGION
STA 96+62 TO STA 96+87 (NEAR MP 24.8)
TRANSITION BINDER FROM 2¼" TO 3½"
TRANSITION SHOULDER MILL FROM 1½" TO 2¼"

TRANSITION REGION
EB EXIT RAMP STA 1+50 TO STA 2+50
SEE TRANSITION DETAIL
BIG BAY INTERCHANGE - NORTH RAMPS

FOR MAINLINE AND ADJACENT EXIT RAMP AREA
SEE TYPICAL SECTION I-24#2
(HMA SURF REM 4¼", HMA BIND 3½", HMA SURF 1½")

FOR EB I-24 TO BIG BAY RD EXITRAMP
SEE TYPICAL SECTION FOR
BIG BAY RD INTERCHANGE RAMPS
(HMA BIND 1¼", HMA SURF 1½")



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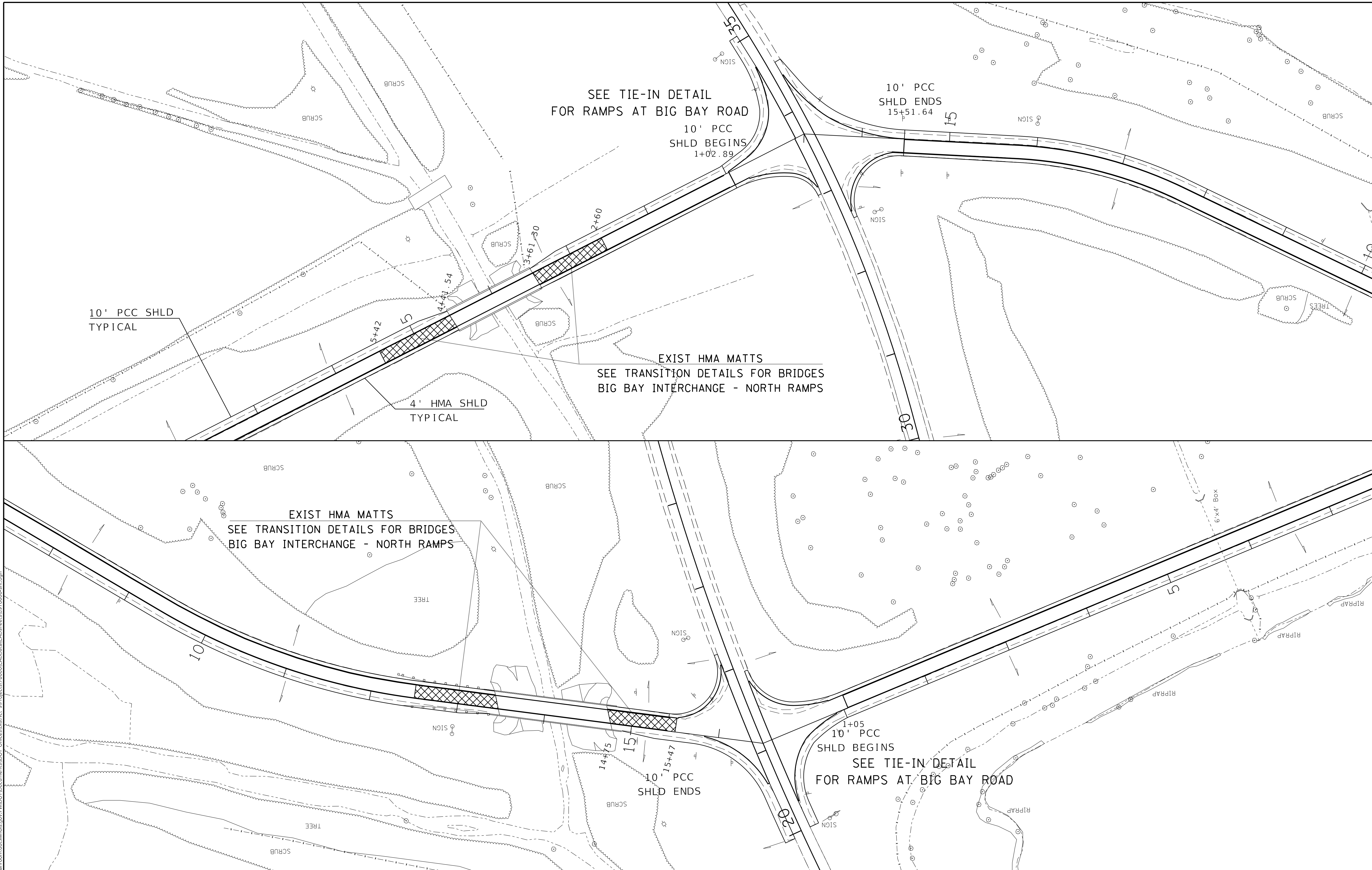
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PLAN SHEETS
BIG BAY INTERCHANGE

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
24	64(1,2,2-1,3-1,3)RS-2	MASSAC	263	56
		CONTRACT NO. 78606		
	ILLINOIS	FED. AID PROJECT		



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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PLAN SHEETS
BIG BAY INTERCHANGE

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
24	64(1,2,2-1,3-1,3)RS-2	MASSAC	263	57

CONTRACT NO. 78606

ILLINOIS FED. AID PROJECT

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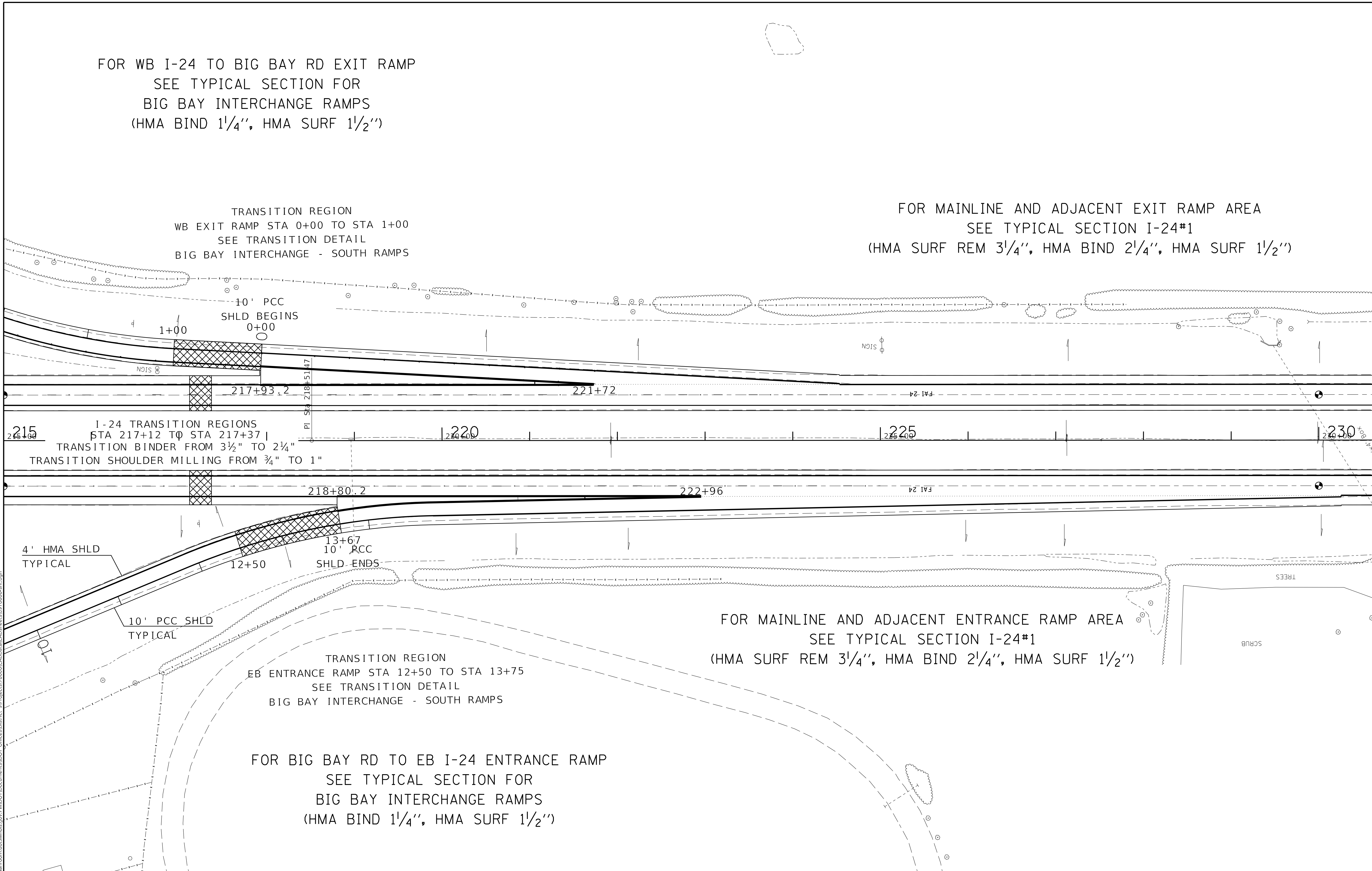
FOR WB I-24 TO BIG BAY RD EXIT RAMP
SEE TYPICAL SECTION FOR
BIG BAY INTERCHANGE RAMPS
(HMA BIND 1¼'', HMA SURF 1½'')
TRANSITION REGION
WB EXIT RAMP STA 0+00 TO STA 1+00
SEE TRANSITION DETAIL
BIG BAY INTERCHANGE - SOUTH RAMPS
FOR MAINLINE AND ADJACENT EXIT RAMP AREA
SEE TYPICAL SECTION I-24#1
(HMA SURF REM 3¼'', HMA BIND 2¼'', HMA SURF 1½'')
10' PCC
SHLD BEGINS
0+00
1+00
SIGN
217+93.2
221+72
PI Sta 218+51.47
FAI 24
I-24 TRANSITION REGIONS
STA 217+12 TO STA 217+37
TRANSITION BINDER FROM 3½" TO 2¼"
TRANSITION SHOULDER MILLING FROM ¾" TO 1"
215
215+00
220
220+00
225
225+00
230
230+00
218+80.2
222+96
13+67
10' PCC
SHLD ENDS
12+50
4' HMA SHLD
TYPICAL
10' PCC SHLD
TYPICAL
TREES
SCRUB
FOR MAINLINE AND ADJACENT ENTRANCE RAMP AREA
SEE TYPICAL SECTION I-24#1
(HMA SURF REM 3¼'', HMA BIND 2¼'', HMA SURF 1½'')
TRANSITION REGION
EB ENTRANCE RAMP STA 12+50 TO STA 13+75
SEE TRANSITION DETAIL
BIG BAY INTERCHANGE - SOUTH RAMPS
FOR BIG BAY RD TO EB I-24 ENTRANCE RAMP
SEE TYPICAL SECTION FOR
BIG BAY INTERCHANGE RAMPS
(HMA BIND 1¼'', HMA SURF 1½'')

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PLAN SHEETS
BIG BAY INTERCHANGE

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
24	64(1,2,2-1,3-1,3)RS-2	MASSAC	263	58
		CONTRACT NO. 78606		
		ILLINOIS FED. AID PROJECT		

FOR US 45 TO WB I-24 ENTRANCE RAMP
SEE TYPICAL SECTION FOR
US 45 INTERCHANGE RAMPS
(HMA BIND 1¼", HMA SURF 1½")

4' AGG SHLD TYPICAL
6' BIT SHLD TYPICAL

FOR MAINLINE AND ADJACENT ENTRANCE RAMP AREA
SEE TYPICAL SECTION I-24#1
(HMA SURF REM 3¼", HMA BIND 2¼", HMA SURF 1½")

TRANSITION REGION
WB ENTRWNCE RAMP STA 12+86 TO STA 13+87
SEE TRANSITION DETAIL
US 45 INTERCHANGE - NORTH RAMPS

PAVED DITCH
INLET
12+86
13+87
336+26
338+66.7
330
335
340
FAI 24
334+06
338+26.5
7+75
6+82
SIGN

TRANSITION REGION
EB EXIT RAMP STA 6+82 TO STA 7+75
SEE TRANSITION DETAIL
US 45 INTERCHANGE - NORTH RAMPS

FOR MAINLINE AND ADJACENT EXIT RAMP AREA
SEE TYPICAL SECTION I-24#1
(HMA SURF REM 3¼", HMA BIND 2¼", HMA SURF 1½")

FOR EB I-24 TO US 45 EXIT RAMP
SEE TYPICAL SECTION FOR
US 45 INTERCHANGE RAMPS
(HMA BIND 1¼", HMA SURF 1½")

MODEL: Default
FILE NAME: pw:\\dallanroom.dot.illinois.gov:PWIDOT1Documents\IDOT Offices\District 9\Projects\78606\CADD\stat\CADsheets\d978606sht.dgn

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	DRAWN -	REVISED -	
PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -	
PLOT DATE = 10/21/2020	DATE -	REVISED -	

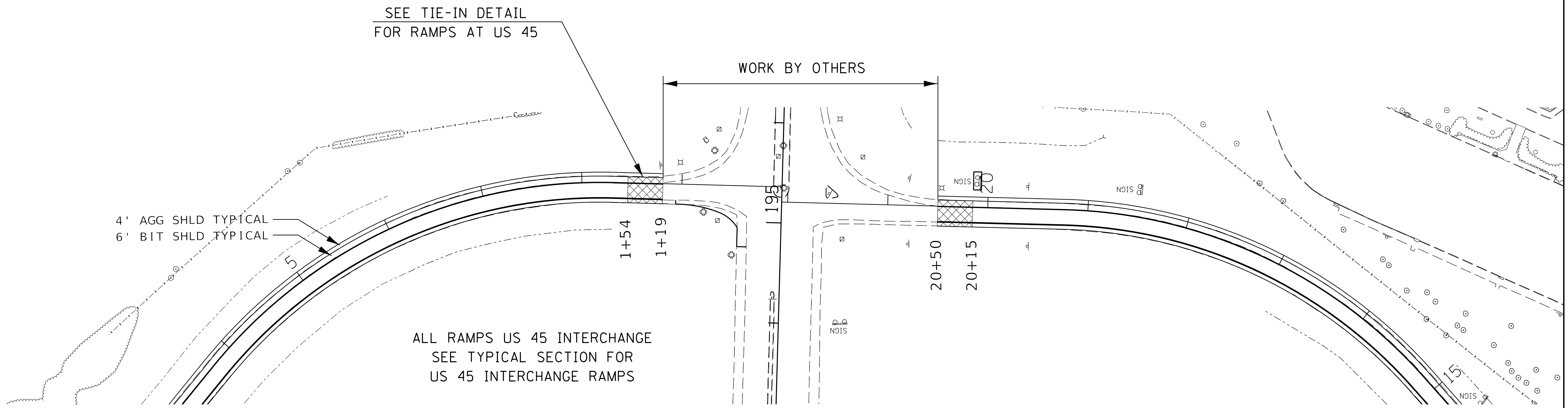
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

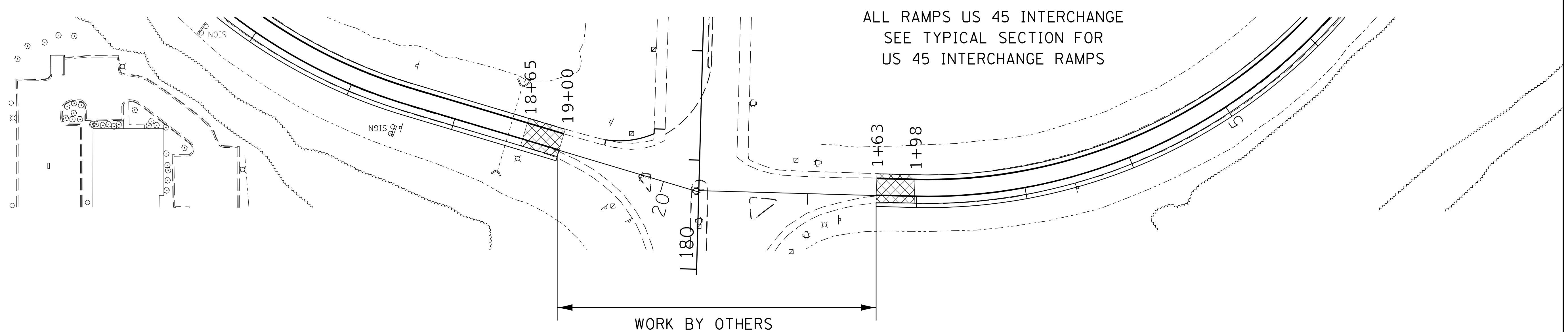
PLAN SHEETS
METROLPOLIS INTERCHANGE

SCALE: | SHEET 1 OF 3 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
24	64(1,2,2-1,3-1,3)RS-2	MASSAC	263	59
		CONTRACT NO. 78606		
		ILLINOIS	FED. AID PROJECT	

US 45 INTERCHANGE - EAST RAMPS





US 45 INTERCHANGE - WEST RAMPS

MODEL: Default
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	DRAWN -	REVISED -	
PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -	
PLOT DATE = 10/21/2020	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PLAN SHEETS
METROLPOLIS INTERCHANGE

SCALE: SHEET 2 OF 3 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
24	64(1,2,2-1,3-1,3)RS-2	MASSAC	263	60
		CONTRACT NO. 78606		
		ILLINOIS FED. AID PROJECT		

FOR WB I-24 TO US 45 EXIT RAMP
SEE TYPICAL SECTION FOR
US 45 INTERCHANGE RAMPS
(HMA BIND 1¼", HMA SURF 1½")

TRANSITION REGION
WB EXIT RAMP STA 6+74 TO STA 7+65
SEE TRANSITION DETAIL
US 45 INTERCHANGE - SOUTH RAMPS

FOR I-24 AND ADJACENT EXIT RAMP AREA
SOUTH OF MAINLINE TRANSITION AREA
SEE TYPICAL SECTION I-24#3
(HMA SURF REM 3¼", HMA BIND 3½", HMA SURF 1½")

PAVED DITCH

10

4' AGG SHLD TYPICAL
6' BIT SHLD TYPICAL

FOR WB I-24
NORTH OF TRANSITION
SEE TYPICAL SECTION I-24#1

7+65
6+74

363+43.8
367+00

OVERHEAD SIGN

FAI 24

360
365
370

I-24 TRANSITION REGIONS
STA 360+75 TO STA 361+00
TRANSITION BINDER FROM 2¼" TO 3½"
TRANSITION SHOULDERS FROM 1½" TO 2¼"

INLET

361+62.7
363+06

FOR EB I-24
NORTH OF TRANSITION
SEE TYPICAL SECTION I-24#1

13+17
14+17

15

TRANSITION REGION
EB ENTRANCE RAMP STA 13+17 TO STA 14+17
SEE TRANSITION DETAIL
US 45 INTERCHANGE - SOUTH RAMPS

FOR 1-24 AND ADJACENT ENTRANCE RAMP AREA
SOUTH OF MAINLINE TRANSITION AREA
SEE TYPICAL SECTION I-24#3
(HMA SURF REM 3¼", HMA BIND 3½", HMA SURF 1½")

FOR US 45 TO EB I-24 ENTRANCE RAMP
SEE TYPICAL SECTION FOR
US 45 INTERCHANGE RAMPS

MODEL: Default
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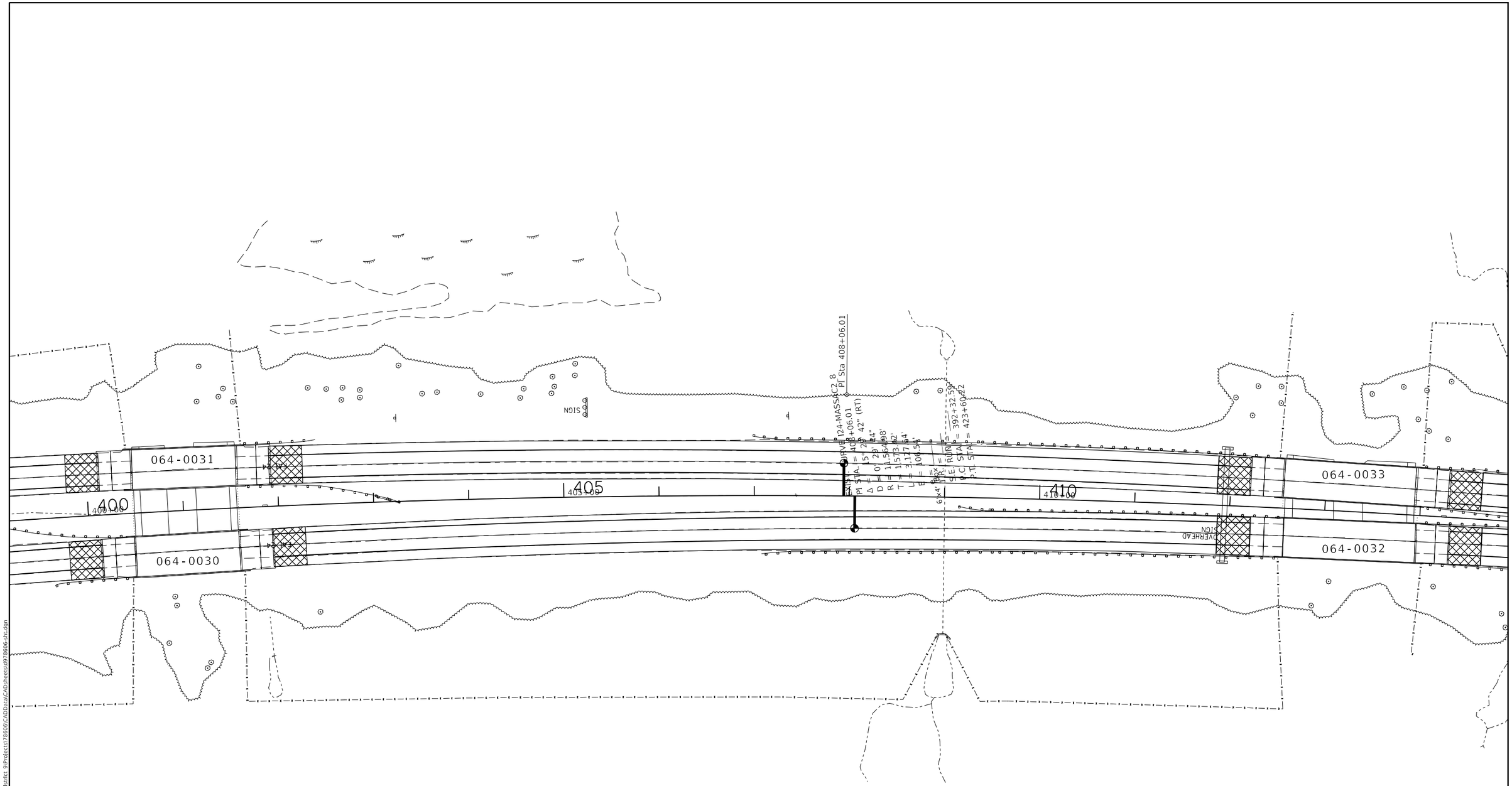
USER NAME = leftwichdl	DESIGNED -	REVISED -	
	DRAWN -	REVISED -	
PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -	
PLOT DATE = 10/21/2020	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PLAN SHEETS
METROLPOLIS INTERCHANGE

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
24	64(1,2,2-1,3-1,3)RS-2	MASSAC	263	61
		CONTRACT NO. 78606		
	ILLINOIS FED. AID PROJECT			



TRANSITION REGIONS
SEE TRANSITION DETAIL #3

USER NAME = leftwichdl	DESIGNED -	REVISED -	
	DRAWN -	REVISED -	
PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -	
PLOT DATE = 10/21/2020	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PLAN SHEETS
MP 38.3 TO MP 38.7

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
24	64(1,2,2-1,3-1,3)RS-2	MASSAC	263	62
		CONTRACT NO. 78606		
		ILLINOIS	FED. AID PROJECT	

MODEL: Default
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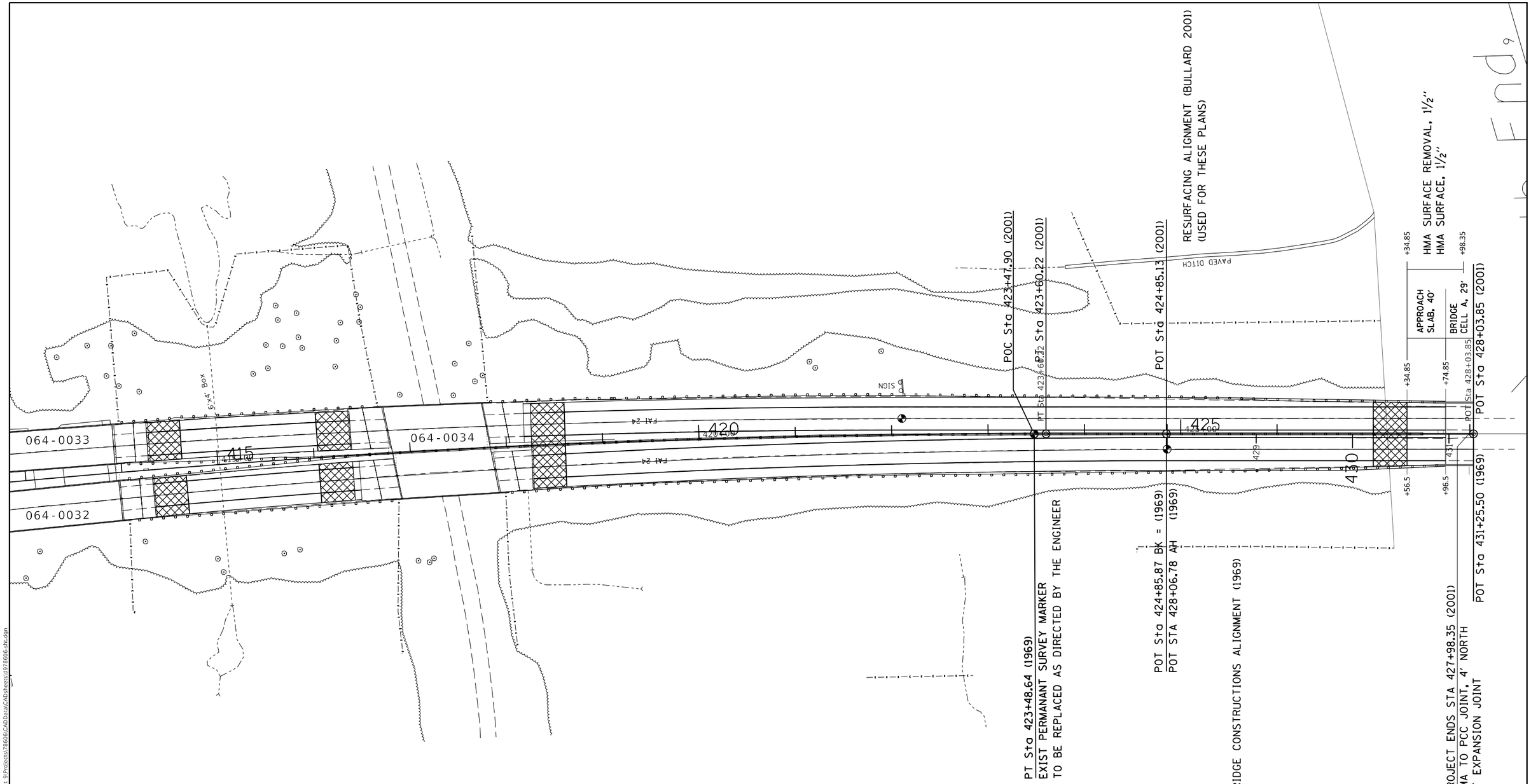

TRANSITION REGIONS
SEE TRANSITION DETAIL #3

MODEL: Default
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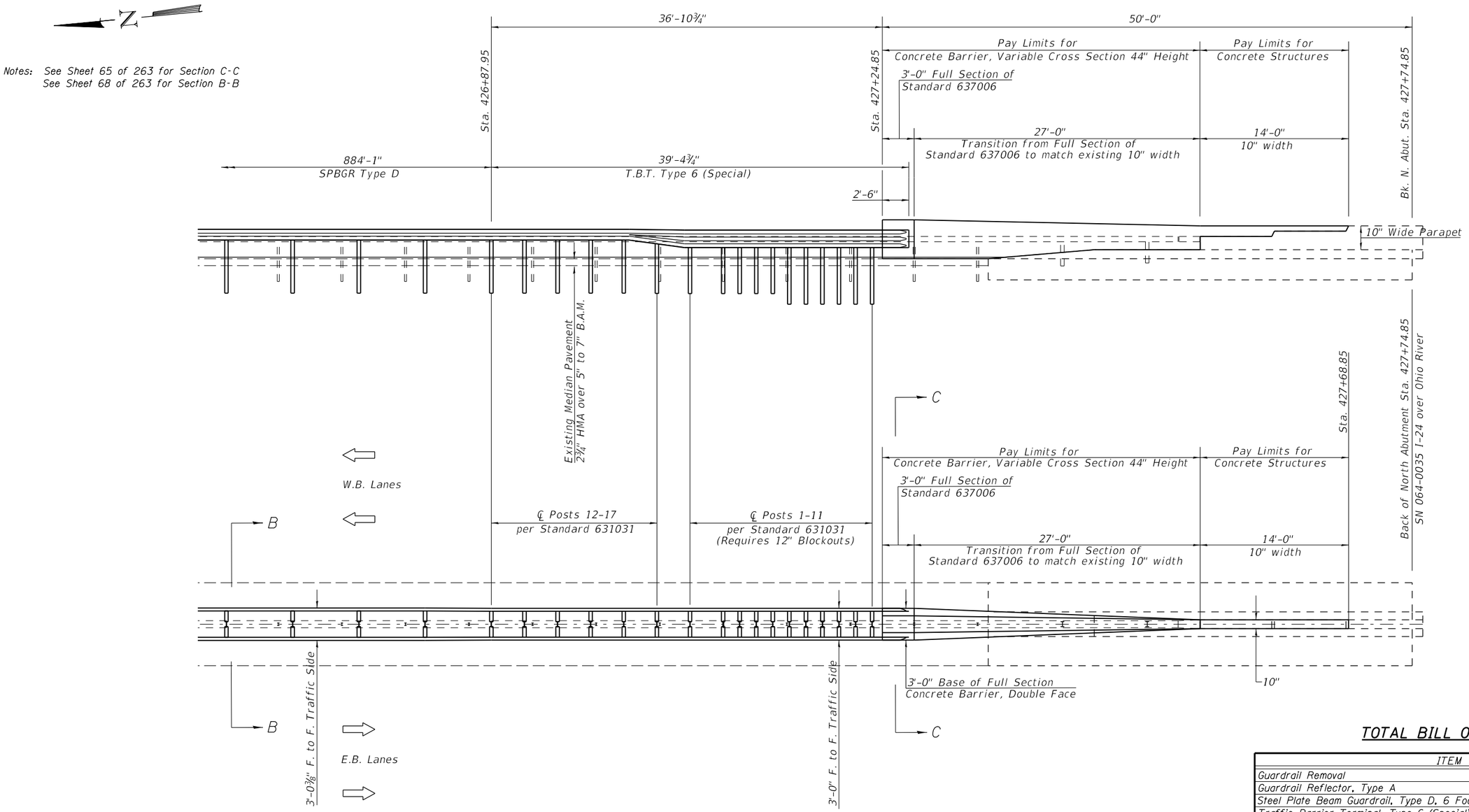
USER NAME = leftwichdl	DESIGNED -	REVISED -	
	DRAWN -	REVISED -	
PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -	
PLOT DATE = 10/21/2020	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PLAN SHEETS
MP 38.6 TO MP 38.9

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
24	64(1,2,2-1,3-1,3)RS-2	MASSAC	263	63
		CONTRACT NO. 78606		
	ILLINOIS FED. AID PROJECT			



TOTAL BILL OF MATERIAL

ITEM	UNIT	QUANITY
Guardrail Removal	Foot	975
Guardrail Reflector, Type A	Each	36
Steel Plate Beam Guardrail, Type D, 6 Foot Posts	Foot	894
Traffic Barrier Terminal, Type 6 (Special)	Each	2
Reinforcement Bars, Epoxy Coated	Pound	130
Concrete Structures	Cu. Yd.	0.4
Concrete Barrier, Variable Cross Section 44 Inch Height	Foot	30

Note: Quantities shown in the Total Bill of Material are from Sta. 416+50 just north of SN 064-0034 to Sta. 427+68.85 on the north approach of SN 064-0035. It also excludes the guardrail removal and new guardrail for SN 064-0034 between Sta. 416+59.86 and Sta. 418+03.86.

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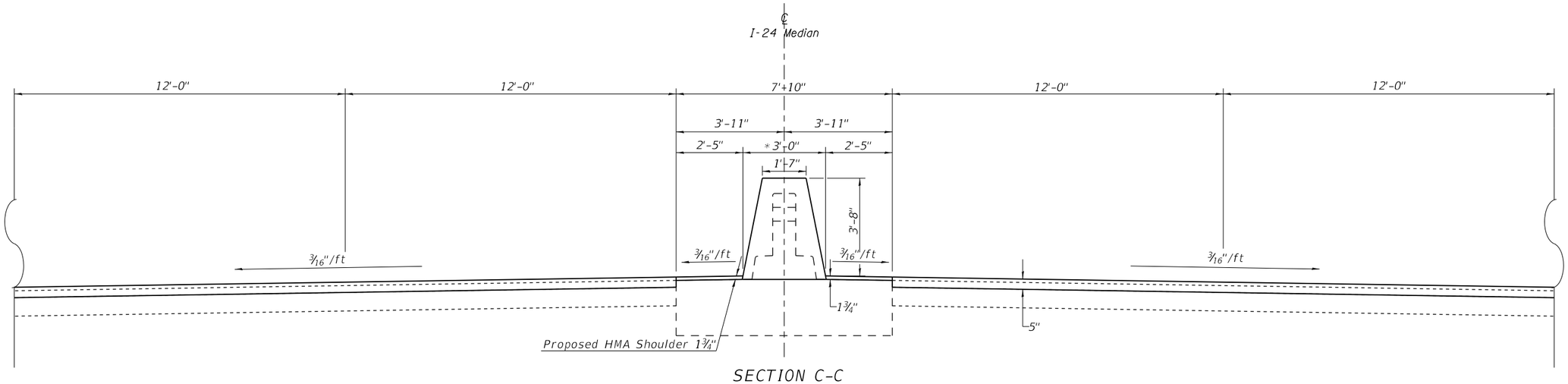
	DRAWN -	REVISED -
PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 10/21/2020	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ELEVATION & PLAN CONCRETE BARRIER, VARIABLE SECTION & T.B.T. TYPE 6 (SPECIAL) IN MEDIAN AT NORTH APPROACH SN 064-0035

SCALE: | SHEET 1 OF 5 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
24	64(1,2,2-1,3-1,3)RS-2	MASSAC	263	64
		CONTRACT NO. 78606		
		ILLINOIS	FED. AID PROJECT	



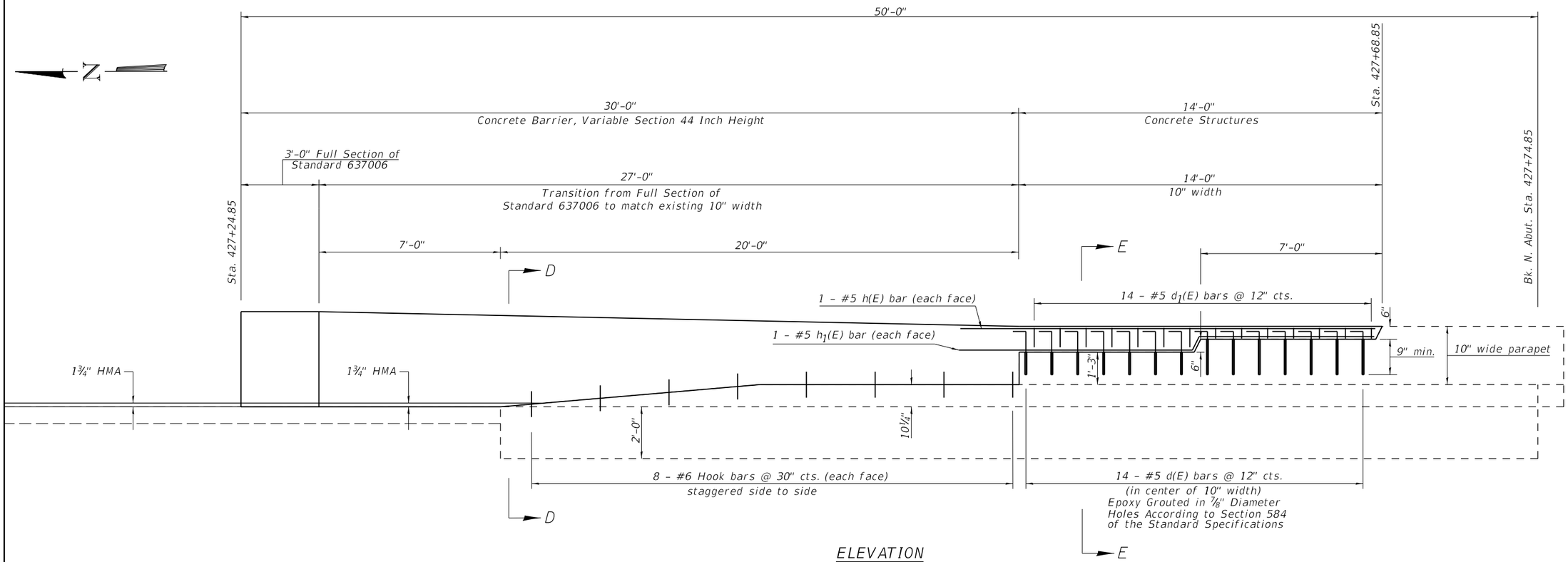
SECTION C-C

SECTION THRU PROPOSED CONCRETE BARRIER, VARIABLE CROSS SECTION 44 INCH HEIGHT

(Looking South)

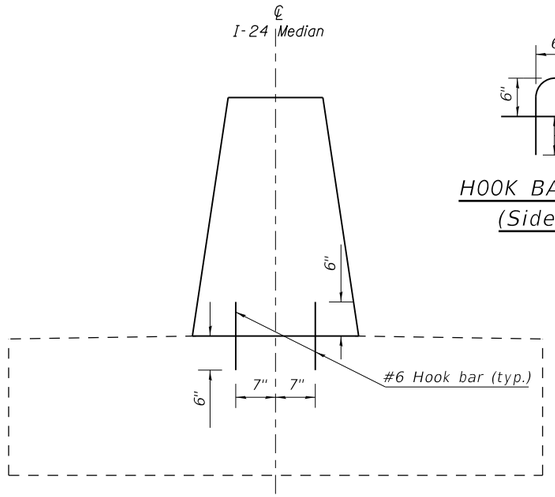
* *The base width of the full section of Standard 637006 was increased from 2'-11" to 3'-0".*

USER NAME = leftwichdl	DESIGNED -	REVISED -	**STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION**	**TYPICAL SECTION CONCRETE BARRIER, VARIABLE SECTION MEDIAN AT NORTH APPROACH SN 064-0035**	F.A.I. RTE. 24
	DRAWN -	REVISED -			SECTION 64(1,2,2-1,3-1,3)RS-2
PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -			COUNTY MASSAC
PLOT DATE = 10/21/2020	DATE - 06/11/18	REVISED -		SCALE: SHEET 2 OF 5 SHEETS STA. TO STA.	TOTAL SHEETS 263
					SHEET NO. 65
					CONTRACT NO. 78606
					ILLINOIS FED. AID PROJECT



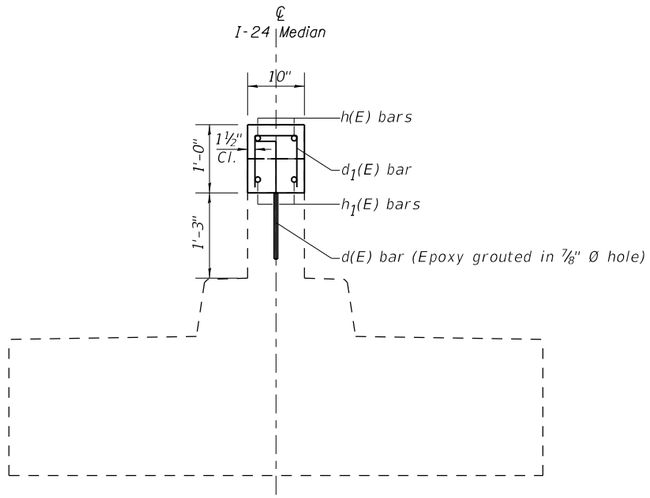
ELEVATION
PROPOSED CONCRETE BARRIER, VARIABLE CROSS SECTION 44 INCH HEIGHT

(Looking East)

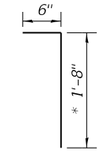


SECTION D-D

HOOK BAR DETAIL
(Side View)

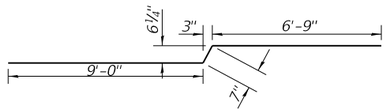


SECTION E-E



bar d(E)

bar d1(E)



bar h1(E)

* Trim legs of d(E) & $d_1(E)$ bars as needed

BILL OF MATERIAL

(Vertical Extension of Parapet)

Bar	No.	Size	Length	Shape
h(E)	·	·	·	
h. (E)	·	·	·	
d(E)	·	#5	·	
d. (E)	·	#5	·	
Reinforcement Bars, Epoxy Coated			Pound	·
Concrete Structures			Cu. Yd.	·

#6 Hook bars are included in the cost of Concrete Barrier, Variable Cross Section 44 Inch Height, and are not included in the quantity of Reinforcement Bars, Epoxy Coated.

USER NAME = leftwichdl	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 10/21/2020	DATE - 06/11/18	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

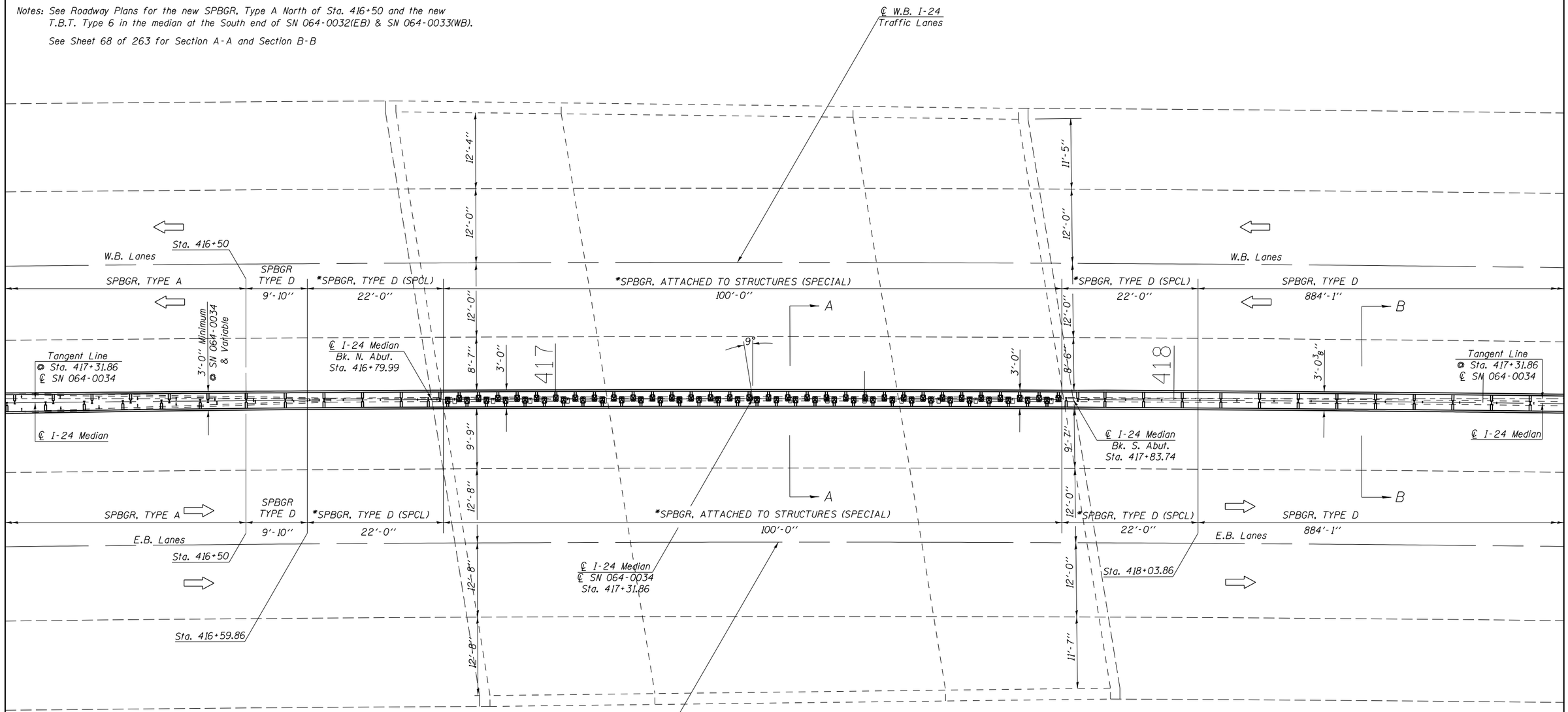
DETAILS OF CONCRETE BARRIER, VARIABLE SECTION
MEDIAN AT NORTH APPROACH SN 064-0035

SCALE: | SHEET 3 OF 5 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
24	64(1,2,2-1,3-1,3)RS-2	MASSAC	263	66
		CONTRACT NO. 78606		
		ILLINOIS	FED. AID PROJECT	

Notes: See Roadway Plans for the new SPBGR, Type A North of Sta. 416+50 and the new T.B.T. Type 6 in the median at the South end of SN 064-0032(EB) & SN 064-0033(WB).

See Sheet 68 of 263 for Section A-A and Section B-B



* See SN 064-0034 Bridge Repair Plans & Special Provisons for pay items, quantities, and details.

Horizontal Curve Data
W.B.L. P.I. Sta. 406+80.74
E.B.L. P.I. Sta. 409+36.72
℄ P.I. Sta. 408+08.73
Δ = 15°-29'-39"
D = 0°-30'
R=11,459.16'
L=3,098.84'
T=1,558.98'
E=105.55'
S.E.=0.015'/'

USER NAME = leftwichdl	DESIGNED -	REVISED -
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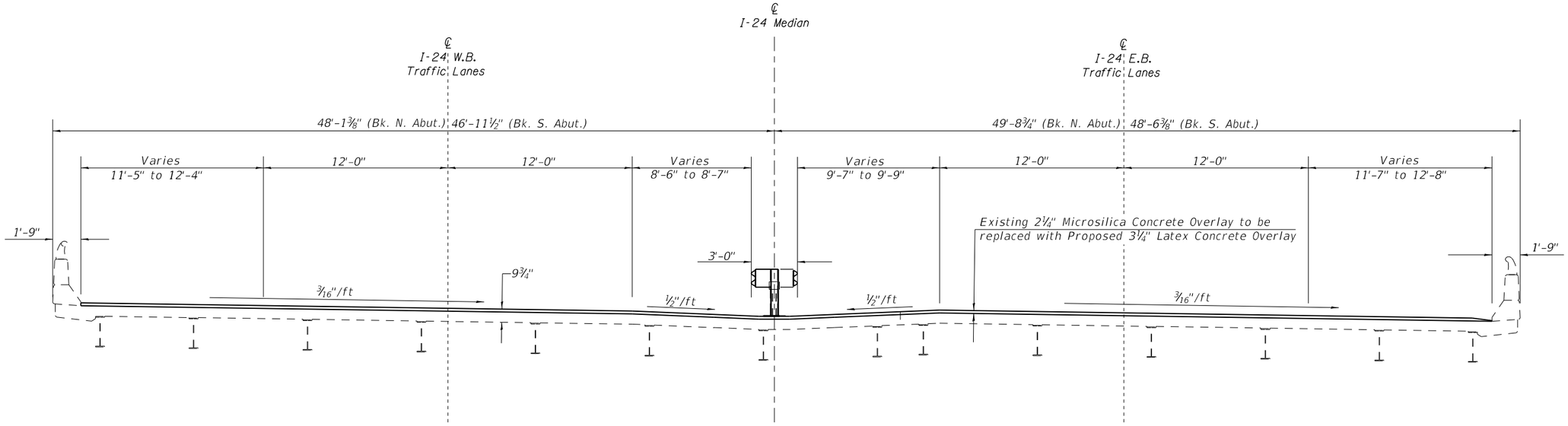
PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 10/21/2020	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GUARDRAIL LAYOUT
MEDIAN OF SN 064-0034

SCALE: | SHEET 4 OF 5 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
24	64(1,2,2-1,3-1,3)RS-2	MASSAC	263	67
		CONTRACT NO. 78606		
	ILLINOIS FED. AID PROJECT			

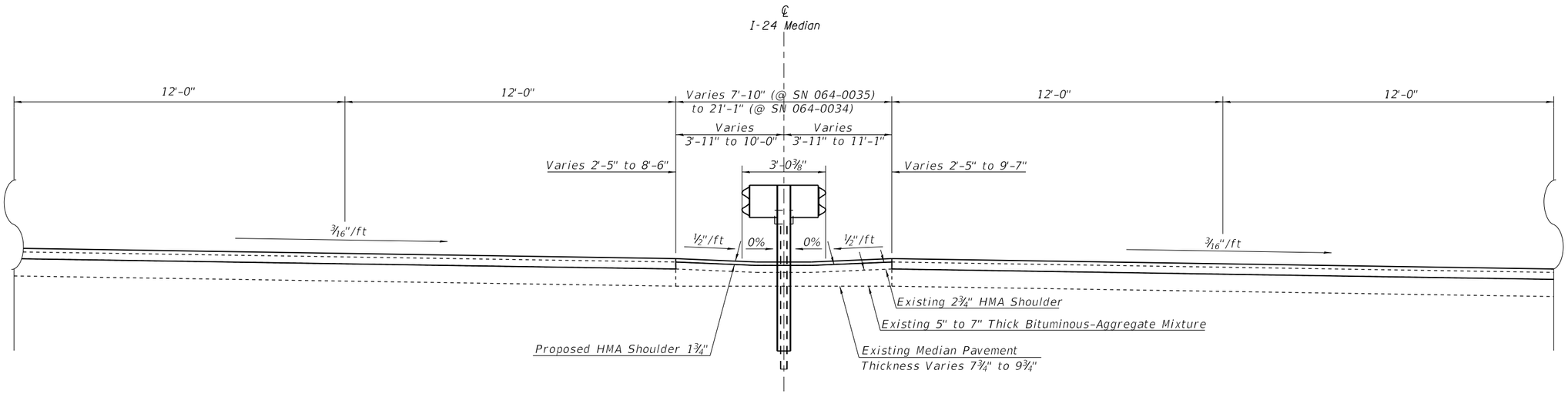


SECTION A-A

SECTION THRU PROPOSED GUARDRAIL

ATTACHED TO STRUCTURE OF SN 064-0034

(Looking South)



SECTION B-B

SECTION THRU PROPOSED STEEL PLATE BEAM GUARDRAIL, TYPE D

(Looking South)

USER NAME = leftwichdl	DESIGNED -	REVISED -
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PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 10/21/2020	DATE -	REVISED -

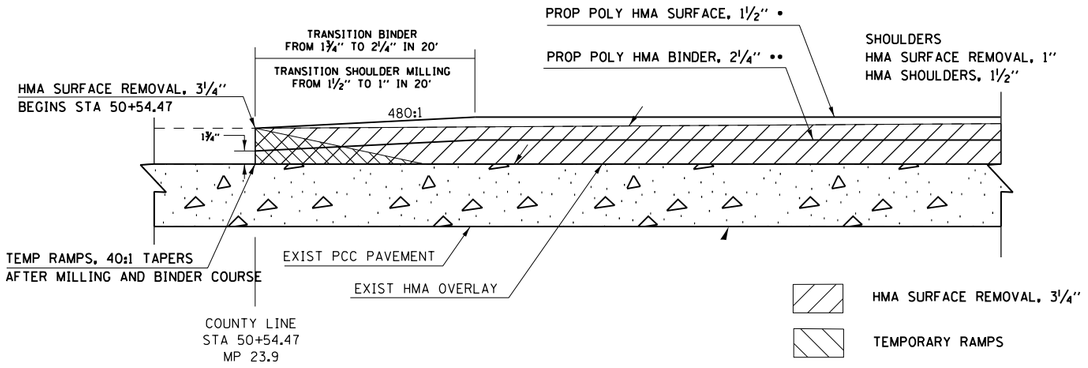
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TYPICAL SECTION STRONG POST GUARDRAIL DECK OF SN 064-0034
TYPICAL SECTION STEEL PLATE BEAM GUARDRAIL, TYPE D

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
24	64(1,2,2-1,3-1,3)RS-2	MASSAC	263	68
		CONTRACT NO. 78606		
	ILLINOIS FED. AID PROJECT			

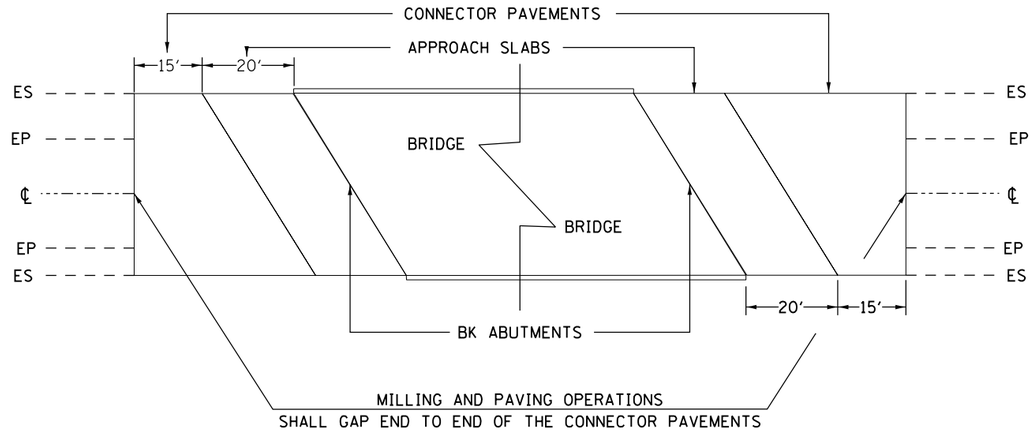
TRANSITION DETAIL #1
FOR JOHNSON/MASSAC CO LINE AND
AT NEWLY CONSTRUCTED BRIDGE CONNECTOR PAVEMENTS, SEE STRUCTURE LIST BELOW



ALSO FOR USE AT THE FOLLOWING BRIDGES
SN 064-0017 & SN 064-0018
SN 064-0020 & SN 064-0021
SN 064-0023 & SN 064-0024
SN 064-0025 & SN 064-0026
SN 064-0045 & SN 064-0046

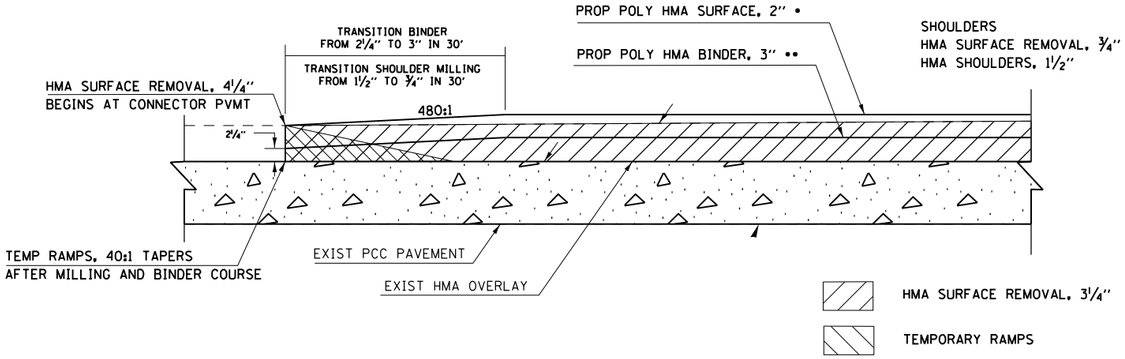
• POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, STONE MATRIX ASPHALT, 9.5, MIX "E", N80
•• POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N90
••• HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N70

DETAIL OF PAVING GAPS AT BRIDGES



ALL BRIDGES (NOT OVERPASSES) WILL HAVE NEW APPROACH SLABS AND CONNECTOR PAVEMENTS EXCEPT SN 064-0017 & SN 064-0018 (@ MP 27.7) AND SN 064-0035 (THE OHIO RIVER BRIDGE) AT THESE LOCATIONS, MILLING AND PAVING OPERATIONS WILL INCLUDE THE HMA PAVEMENT ON TOP OF THE APPROACH SLABS. THE ACTUAL MILLING DEPTH AND THICKNESS OF THE PROPOSED BINDER SHALL BE DETERMINED BY THE ENGINEER, HMA SURFACE SHALL REMAIN 1½"

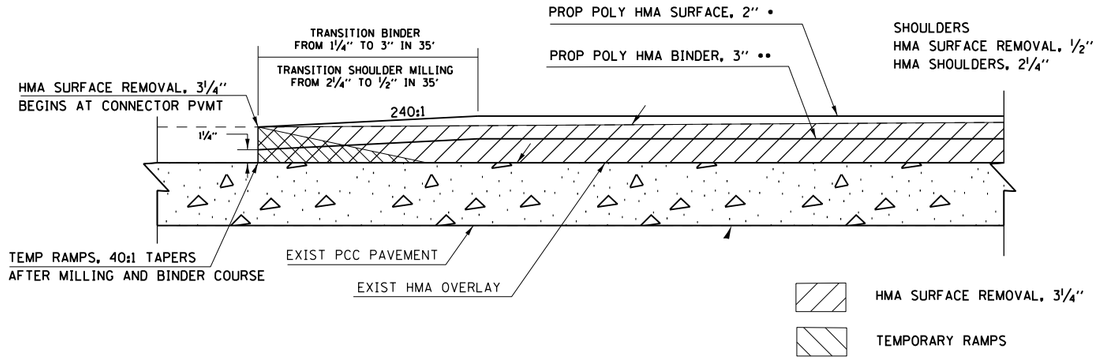
TRANSITION DETAIL#2
AT NEWLY CONSTRUCTED BRIDGE CONNECTOR PAVEMENTS
SEE STRUCTURE LIST BELOW



FOR USE AT THE FOLLOWING BRIDGES
SN 064-0014 & SN 064-0015 (MP 26.7)

• POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, STONE MATRIX ASPHALT, 9.5, MIX "E", N80
•• POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N90
••• HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N70

TRANSITION DETAIL #3
AT NEWLY CONSTRUCTED BRIDGE CONNECTOR PAVEMENTS
SEE STRUCTURE LIST BELOW



FOR USE AT THE FOLLOWING BRIDGES
SN 064-0030 & SN 064-0031
SN 064-0032 & SN 064-0033
SN 064-0034
SN 064-0035

• POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, STONE MATRIX ASPHALT, 9.5, MIX "E", N80
•• POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N90
••• HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N70

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		DRAWN -	REVISED -
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Default	PLOT DATE = 10/21/2020	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

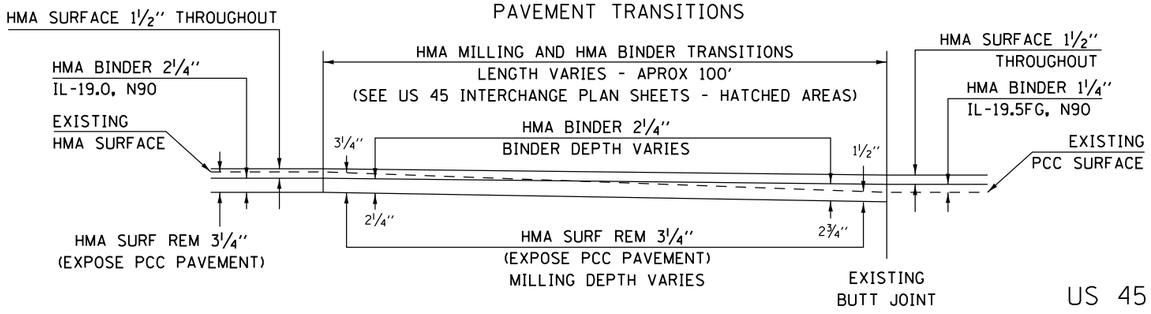
MAINLINE TRANSITION DETAILS (AT BRIDGES)

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

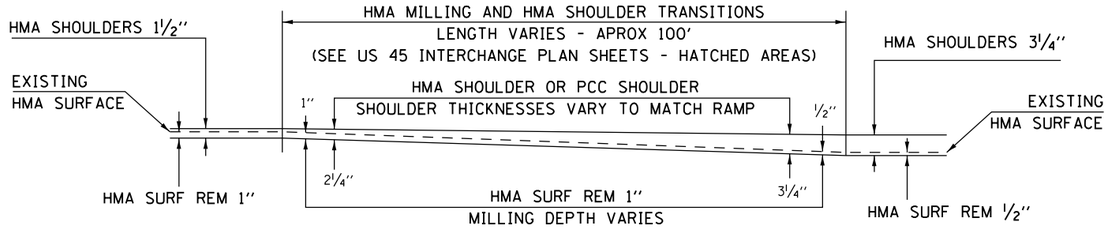
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
24	64(1,2,2-1,3-1,3)RS-2	MASSAC	263	69
		CONTRACT NO. 78606		
		ILLINOIS	FED. AID PROJECT	

TRANSITION DETAIL #4
BIG BAY INTERCHANGE - SOUTH RAMPS
US 45 INTERCHANGE - NORTH RAMPS

PAVEMENT TRANSITIONS

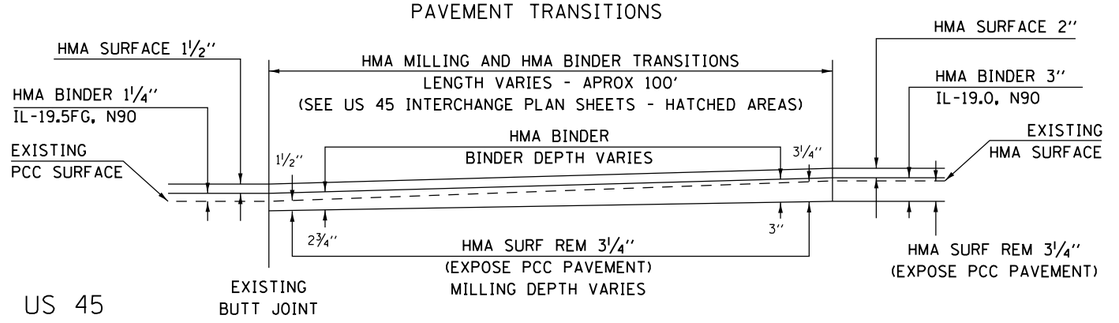


SHOULDER TRANSITIONS

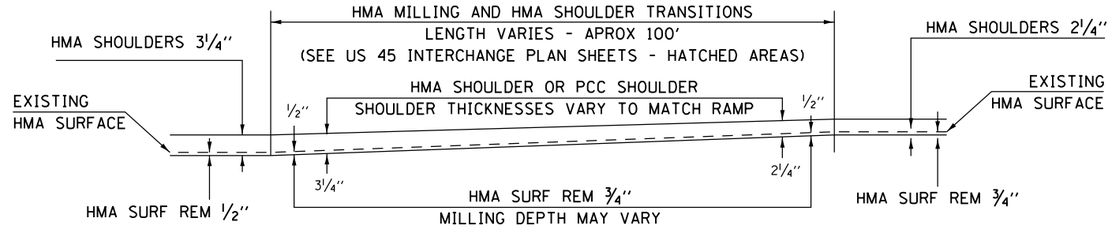


TRANSITION DETAIL #5
BIG BAY INTERCHANGE - NORTH RAMPS
US 45 INTERCHANGE - SOUTH RAMPS

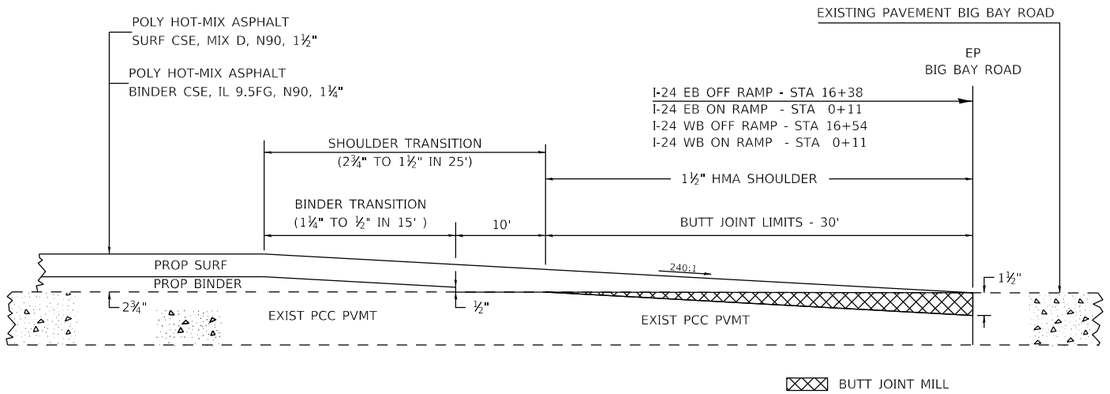
PAVEMENT TRANSITIONS



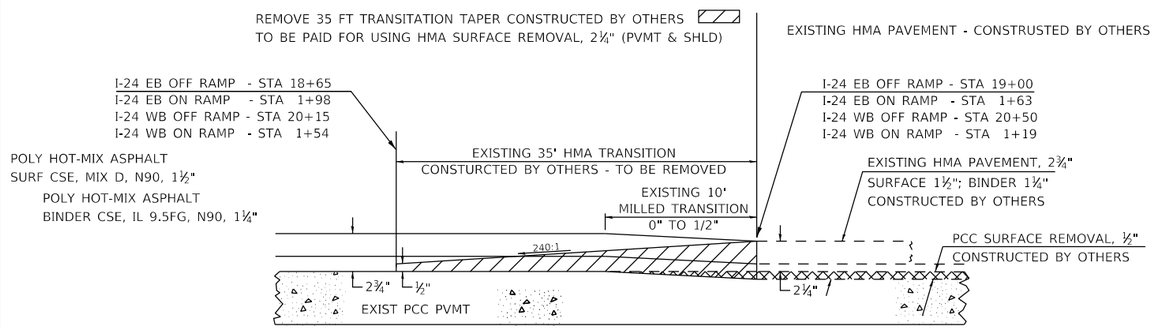
SHOULDER TRANSITIONS



TIE-IN DETAIL FOR RAMPS AT BIG BAY RD



TIE-IN DETAIL FOR RAMPS AT US 45



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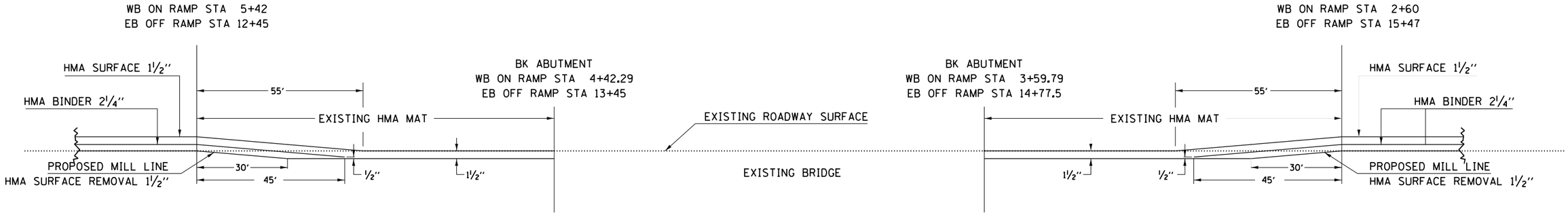
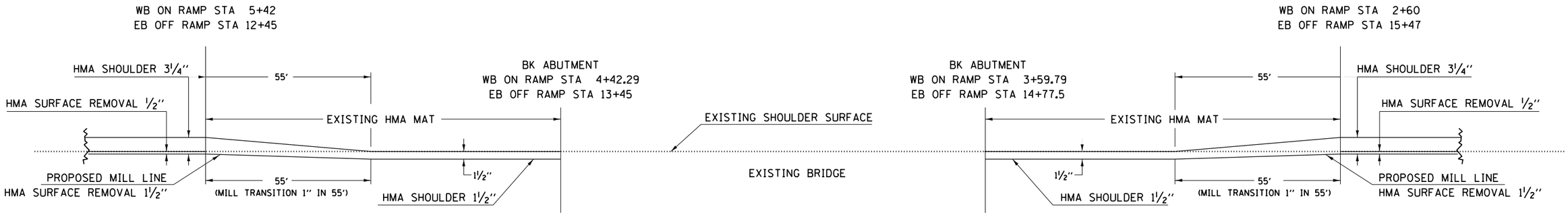
Default	PLOT SCALE = 100.0000 ' / in.	DRAWN -	REVISED -		SCALE: SHEET OF SHEETS STA. TO STA.
	PLOT DATE = 10/21/2020	CHECKED -	REVISED -		
		DATE -	REVISED -		

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
24	64(1,2,2-1,3-1,3)RS-2	MASSAC	263	70
		CONTRACT NO. 78606		
		ILLINOIS	FED. AID PROJECT	

PAVEMENT TRANSITION DETAIL FOR BRIDGES
BIG BAY INTERCHANGE - NORTH RAMPS



SHOULDER TRANSITION DETAILS FOR BRIDGES
BIG BAY INTERCHANGE - NORTH RAMPS



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	DRAWN -	REVISED -	
PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -	
PLOT DATE = 10/21/2020	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

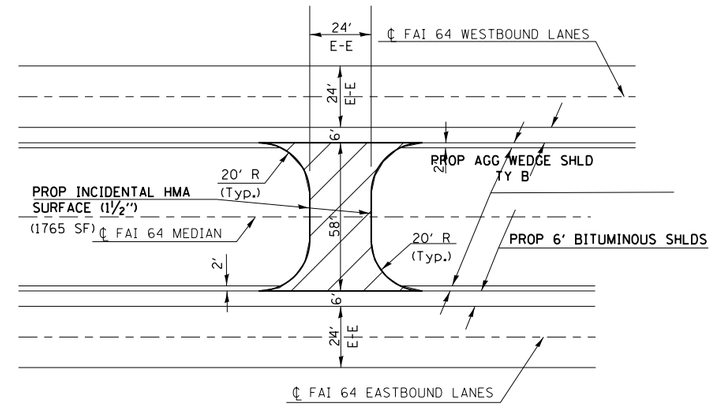
PAVEMENT & SHOULDER TRANSITION DETAILS FOR BRIDGES ON BIG BAY NORTH RAMPS

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

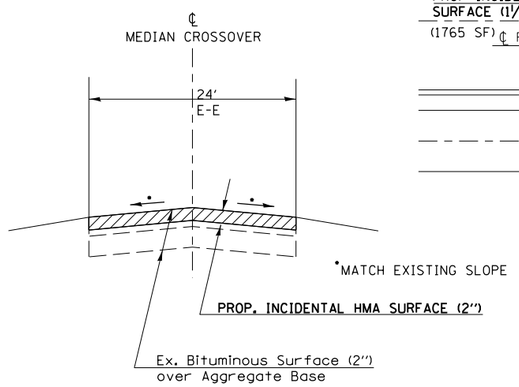
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
24	64(1,2,2-1,3-1,3)RS-2	MASSAC	263	71
		CONTRACT NO. 78606		
	ILLINOIS	FED. AID PROJECT		

DETAIL FOR
MEDIAN CROSSOVERS

PLAN VIEW AT MEDIANS



CROSSECTION
AT MEDIANS



TO BE USED••

STA	54+50	MP 24.9
STA	290+80	MP 28.4
STA	35+10	MP 31.4
STA	194+80	MP 34.5
STA	388+95	MP 38.1

•• SEE SCHEDULE FOR MEDIAN CROSSOVERS

FILE NAME = pw:\\planroom.dot.illinois.gov:PWIDOT\Documents\IDOT Offices\District 9\Projects\78606\CADData\CADsheets\d978606-sht.dgn	USER NAME = leftwichdl	DESIGNED -	REVISED -
		DRAWN -	REVISED -
	PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -
Default	PLOT DATE = 10/21/2020	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

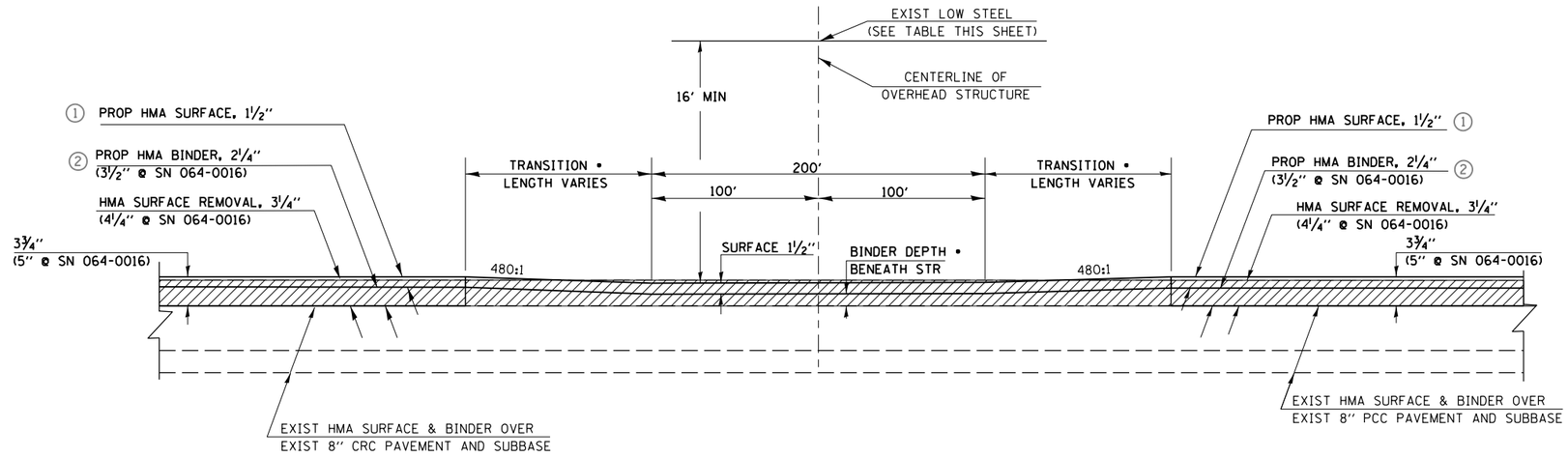
DETAIL FOR MEDIAN CROSSOVERS

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
24	64(1,2,2-1,3-1,3)RS-2	MASSAC	263	72
		CONTRACT NO. 78606		
		ILLINOIS	FED. AID PROJECT	

AT EACH LOCATION
AFTER MILLING OPERATIONS HAVE EXPOSED THE EXIST PCC PAVEMENT, LOW STEEL SHALL BE MEASURED BY THE ENGINEER. HMA SURFACE COARSE 1½" SHALL BE MAINTAINED THROUGHOUT. HMA BINDER COURSE SHALL BE TRANSITIONED AS NEEDED AND AS DIRECTED BY THE ENGINEER TO MAINTAIN AT LEAST 16' OF CLEARANCE IF POSSIBLE BETWEEN LOW STEEL AND FINAL GRADE.

DETAIL FOR HMA TRANSITIONS UNDER OVERPASSES (TO MAINTAIN VERTICAL CLEARANCE)

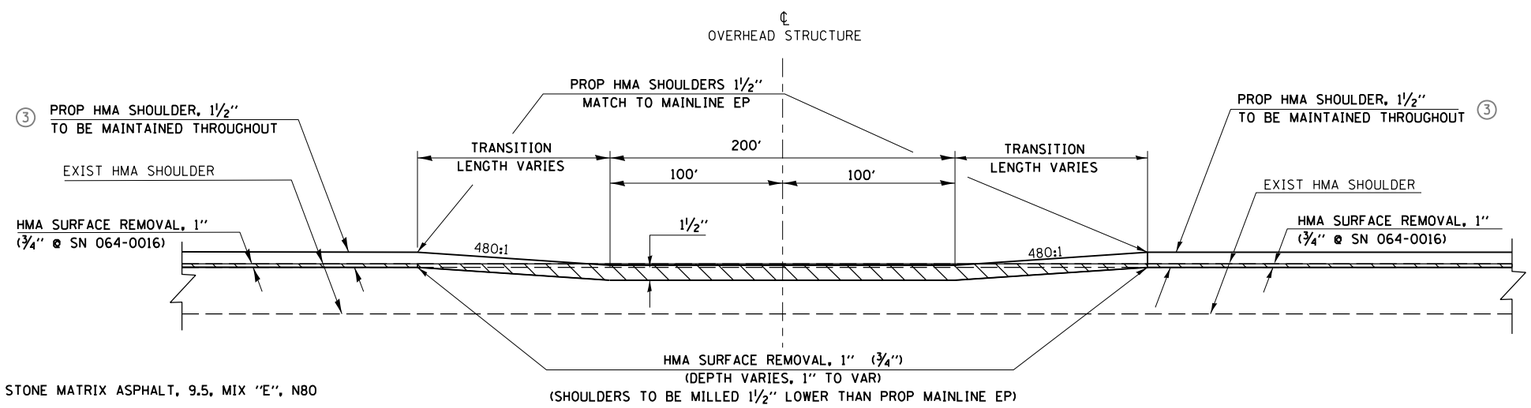


OVERPASS STRUCTURE CLEARANCE HEIGHTS ON RECORD

EBL					MP	WBL				
SN	STA	Clear Height	ESTIMATED BINDER DEPTH *	ESTIMATED TAPER LENGTH *		ESTIMATED TAPER LENGTH *	ESTIMATED BINDER DEPTH *	Clear Height	STA	SN
064-0013	95+57.00	19'-05"	2¼"	0	24.7	0	2¼"	16'-05"	95+85.00	064-0013
064-0016	204+36.00	16'-04"	2½"	40	26.8	0	3½"	16'-05"	204+13.00	064-0016
064-0019	298+70.00	16'-06"	2¼"	0	28.6	0	2¼"	17'-09"	299+00.00	064-0019
064-0022	417+64.00	16'-00"	0"	90	30.8	0	2¼"	16'-05"	418+07.00	064-0022
064-0029	350+00.50	16'-02"	½"	70	37.4	0	2¼"	17'-05"	350+02.00	064-0029

* TO BE ADJUSTED BY THE ENGINEER

DETAIL OF PROPOSED SHOULDER TREATMENT UNDER OVERPASSES



① POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, STONE MATRIX ASPHALT, 9.5, MIX "E", N80

② POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N90

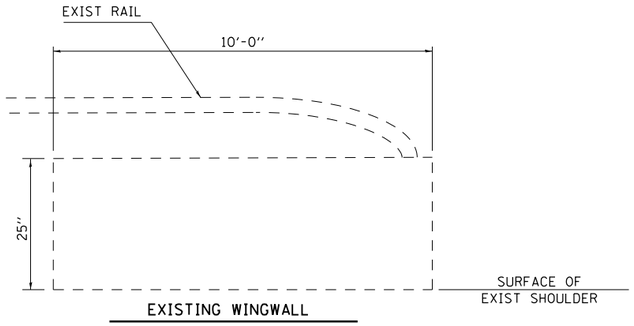
③ HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N70

FILE NAME = pw:\\planroom.dot.illinois.gov:PWIDOT\Documents\IDOT Offices\District 9\Projects\78606\CADData\CADsheets\cd978606-sht_BR.dgn	USER NAME = leftwichdl	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DETAIL FOR HMA TRANSITIONS BENEATH OVERPASSES (TO MAINTAIN VERTICAL CLEARANCE)	F.A.I. RTE.	SECTION / COUNTY / TOTAL SHEETS / SHEET NO.
		DRAWN -	REVISED -			24	64(1,2,2-1,3-1,3)RS-2 / MASSAC / 263 / 73
Default	PLOT SCALE = 100.0000 ' / In.	CHECKED -	REVISED -		SCALE:		CONTRACT NO. 78606
	PLOT DATE = 10/21/2020	DATE -	REVISED -		SHEET OF SHEETS STA. TO STA.		ILLINOIS / FED. AID PROJECT

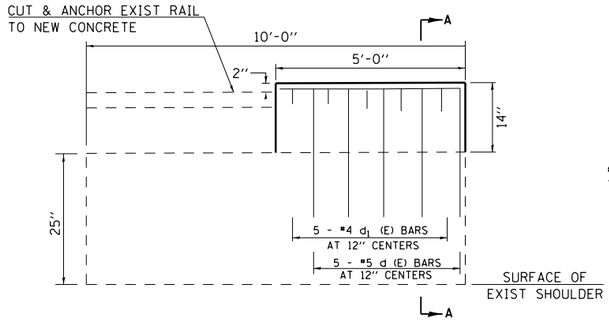
WINGWALL MODIFICATION FOR TYPE 6 TERMINAL

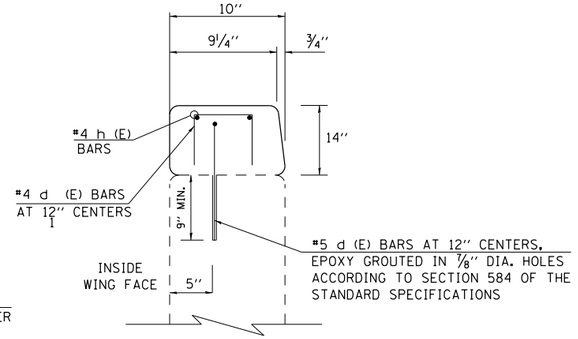
DETAIL #1

TO BE USED
SN 046-0035
NORTH END - OUTSIDE PARAPITS

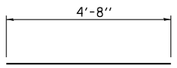


EXISTING WINGWALL

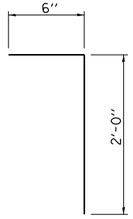




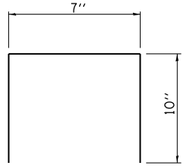
SECTION A-A



BAR h (E)



BAR d (E)



BAR d_1 (E)

BILL OF MATERIAL

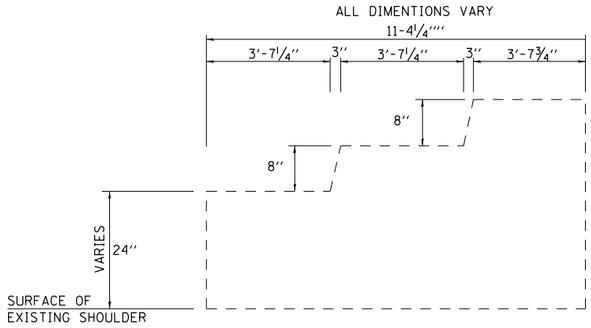
BAR	SIZE	NO.	LENGTH
d (E)	#5	5	2'-6"
d_1 (E)	#4	5	2'-3"
h (E)	#4	2	4'-8"
CONCRETE SUPERSTRUCTURE		CU YDS	0.3
REINFORCEMENT BARS EPOXY COATED		LBS	40

NOTES:
QUANTITIES ARE PER WING WALL
BARS DESIGNATED (E) SHALL BE EPOXY COATED.

WINGWALL MODIFICATION FOR TYPE 6 TERMINAL

DETAIL #2

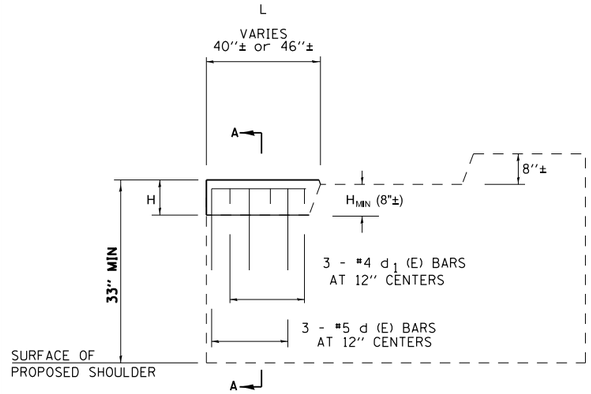
ALL DIMENTIONS VARY



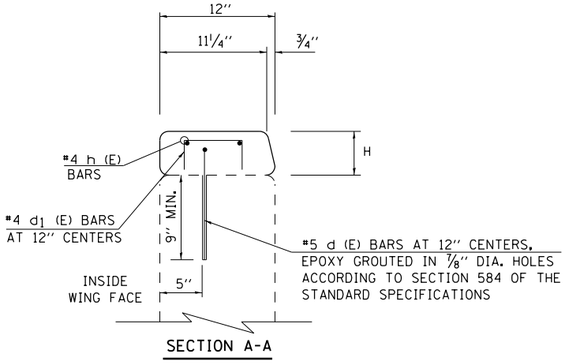
INSIDE ELEVATION (EXISTING)

TO BE USED
SN 046-0034
SOUTH WEST OUTSIDE WING
NORTH EAST OUTSIDE WING

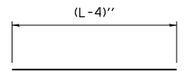
WB 1-24 SN 046-0033 NORTH EAST WING
EB I-24 SN 046-0032 SOUTH WINGS



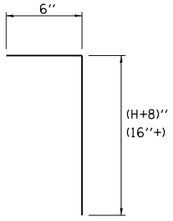
INSIDE ELEVATION (PROPOSED)



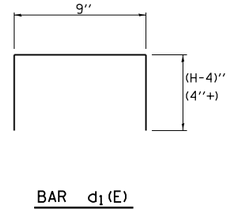
SECTION A-A



BAR h (E)



BAR d (E)



BAR d_1 (E)

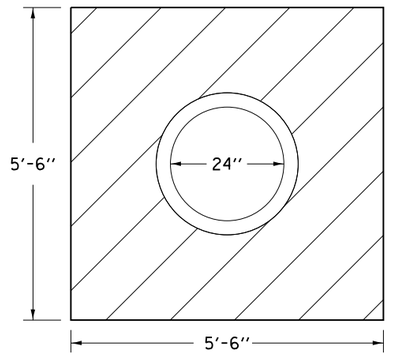
BILL OF MATERIAL

BAR	SIZE	NO.	LENGTH
d (E)	#5	8	1'-11"
d_1 (E)	#4	8	1'-7"
h (E)	#4	2	7'-5"
CONCRETE SUPERSTRUCTURE		CU YDS	0.1
REINFORCEMENT BARS EPOXY COATED		LBS	14

NOTES: QUANTITIES SHOWN ARE FOR H = 8" & L = 46"
AND ARE PER WING WALL
BARS DESIGNATED (E) SHALL BE EPOXY COATED.

FILE NAME = pw:\\planroom.dot.illinois.gov:PWIDOT\Documents\IDOT Offices\District 9\Projects\78606\CADData\CADsheets\cd978606-sht_DR.dgn	USER NAME = leftwichdl	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	WINGWALL MODIFICATIONS FOR TYPE 6 TERMINALS	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN -	REVISED -			24	64(1,2,2-1,3-1,3)RS-2	MASSAC	263	74
	PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -					CONTRACT NO.	78606	
Default	PLOT DATE = 10/21/2020	DATE -	REVISED -		SCALE: SHEET OF SHEETS STA. TO STA.			ILLINOIS	FED. AID PROJECT	

STRUCTURAL REPAIR OF CONCRETE
(DEPTH EQUAL TO OR LESS THAN 5 INCHES)
MEDIAN INLET PIPE TO DBL BOX CULVERT
STA 291+08 (MP 28.44)
10 SQ FT



ALL DIMENTIONS ARE APPROXIMATE
EXACT SIZE AND LOCATION
TO BE DETERMINED BY THE ENGINEER
SEE ALSO SPECIAL PROVISION
STRUCTURAL REPAIR OF CONCRETE

FILE NAME = pw:\\planroom.dot.illinois.gov:PWIDOT\Documents\IDOT Offices\District 9\Projects\78606\CADData\CADsheets\d978606-sht.dgn	USER NAME = leftwichdl	DESIGNED -	REVISED -
		DRAWN -	REVISED -
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Default	PLOT DATE = 10/21/2020	DATE -	REVISED -

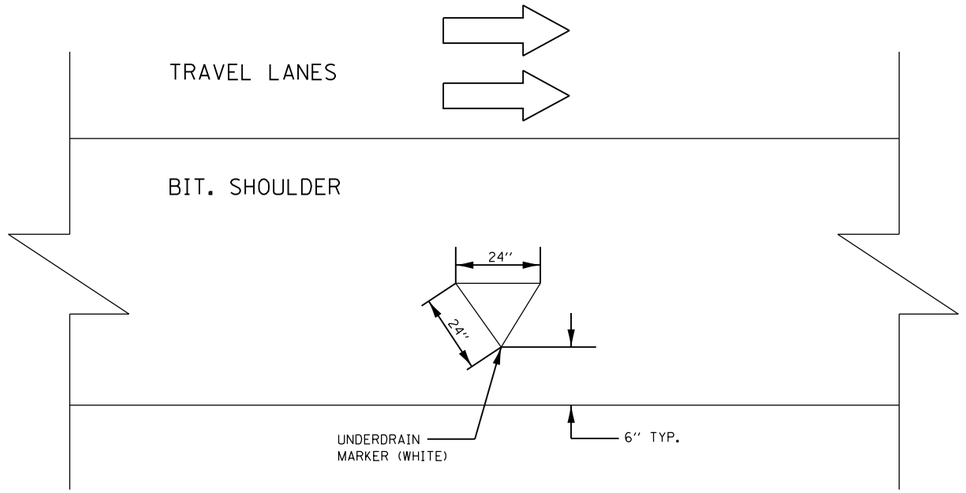
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STRUCTURAL REPAIR OF CONCRETE

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
24	64(1,2,2-1,3-1,3)RS-2	MASSAC	263	75
		CONTRACT NO. 78606		
	ILLINOIS	FED. AID PROJECT		

TYPICAL UNDERDRAIN OUTLET MARKER DETAIL



NOTES:

TO BE PAID FOR AS THERMOPLASTIC PAVEMENT MARKING LETTERS AND SYMBOLS (USE 2 SQ FT FOR AREA) PROJECT TOTAL = 381 PIPE UNDERDRAIN HDWLs X 2 = 762 SQ FT

FILE NAME = pw:\\planroom.dot.illinois.gov:PWIDOT\Documents\IDOT Offices\District 9\Projects\78606\CADData\CADsheets\d978606-sht_DR.dgn	USER NAME = leftwichdl	DESIGNED -	REVISED -
		DRAWN -	REVISED -
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Default	PLOT DATE = 10/21/2020	DATE -	REVISED -

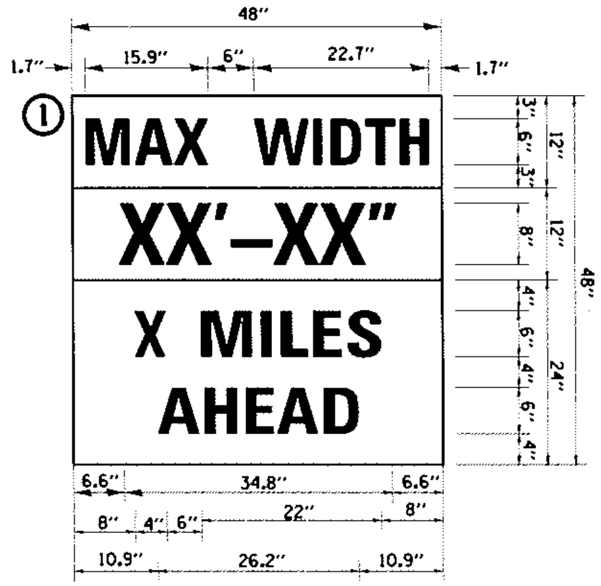
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TYPICAL UNDERDRAIN OUTLET MARKER DETAIL

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

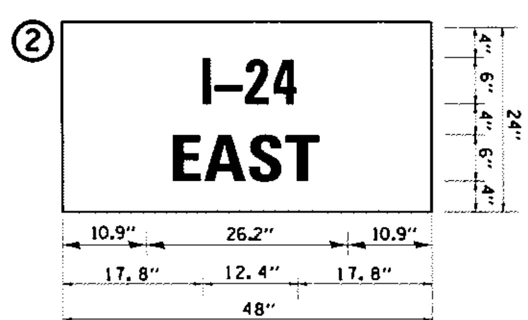
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
24	64(1,2,2-1,3-1,3)RS-2	MASSAC	263	76
		CONTRACT NO. 78606		
	ILLINOIS	FED. AID PROJECT		

SIGN LEGEND

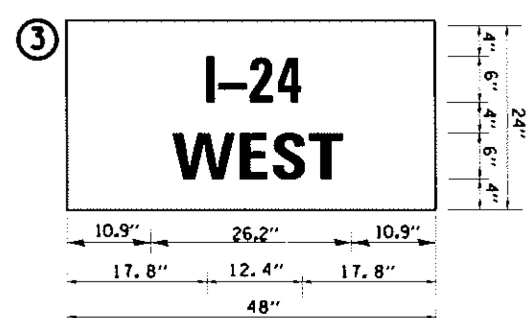


W12-I103

W12-I103 (WIDTH IS 8D);
NO BORDER, BLACK ON WHITE; "MAX WIDTH" D;
NO BORDER, BLACK ON ORANGE; "XX'-XX"" D;
NO BORDER, BLACK ON WHITE; "X MILES" D; "AHEAD" D



NO BORDER, BLACK ON WHITE; "I-24" D;
NO BORDER, BLACK ON WHITE; "EAST" D



NO BORDER, BLACK ON WHITE; "I-24" D;
NO BORDER, BLACK ON WHITE; "WEST" D

DETOUR NOTES:

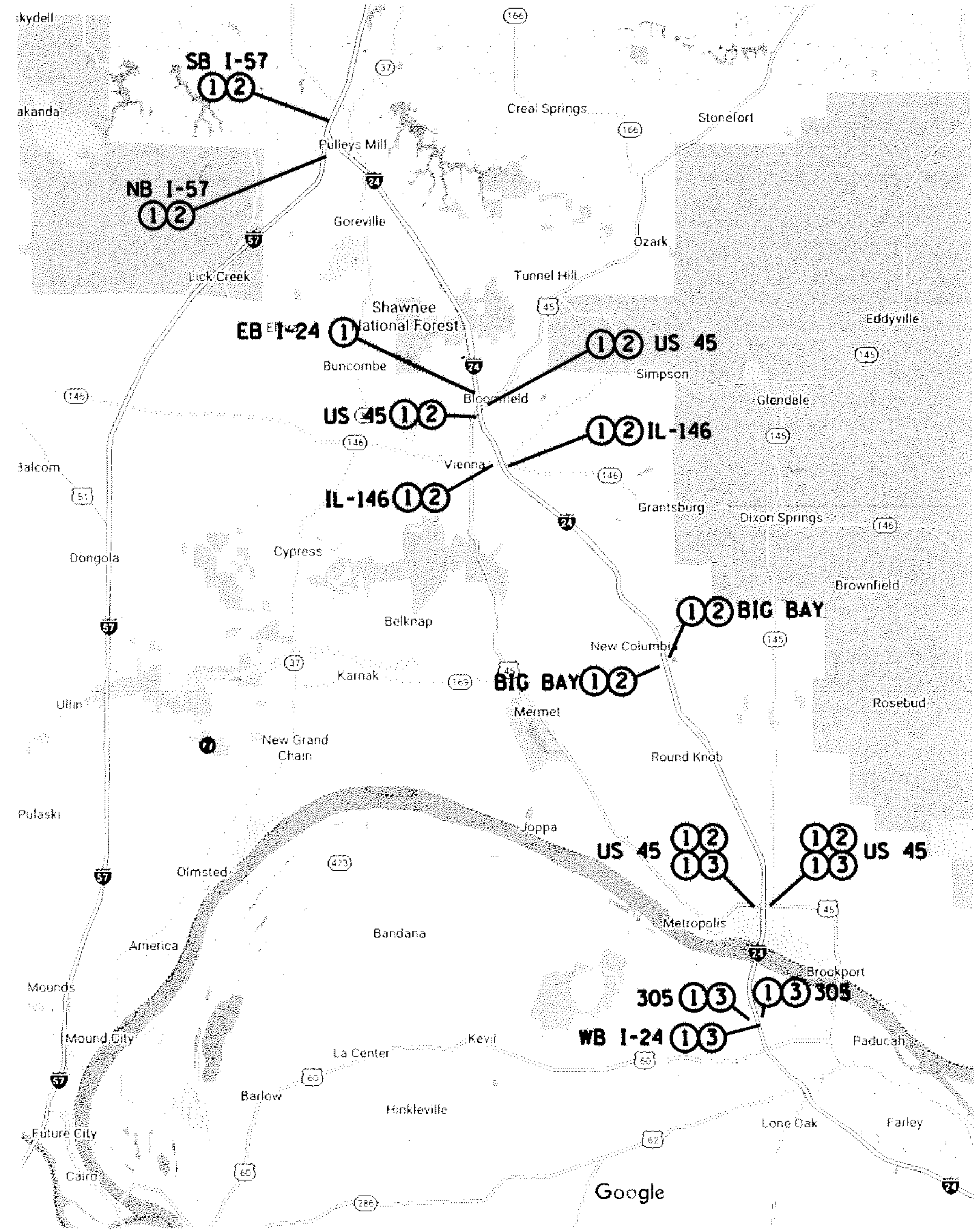
1. THE CONTRACTOR SHALL FURNISH THE POSTS AND ERECT THE SIGNS AT THE LOCATIONS AS DIRECTED BY THE ENGINEER. ALL SIGNS SHALL BE POST MOUNTED.

   THE ABOVE NOTED WORK, INCLUDING SIGNS, POSTS, HARDWARE AND LABOR SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE, EACH, FOR TRAFFIC CONTROL AND PROTECTION, STANDARD 701402 AND NO OTHER COMPENSATION WILL BE ALLOWED.

   FOR WORK ON ALL STRUCTURES, THE WIDTH SHOWN ON THE W12-1103 SIGN SHALL BE 14'-3'' OR AS DIRECTED BY THE ENGINEER. THE "X" MILES AHEAD WILL BE DETERMINED BY THE ENGINEER.

N

SB I-57



WIDE LOAD SIGNING PLAN

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	PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -
Default	PLOT DATE = 10/21/2020	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

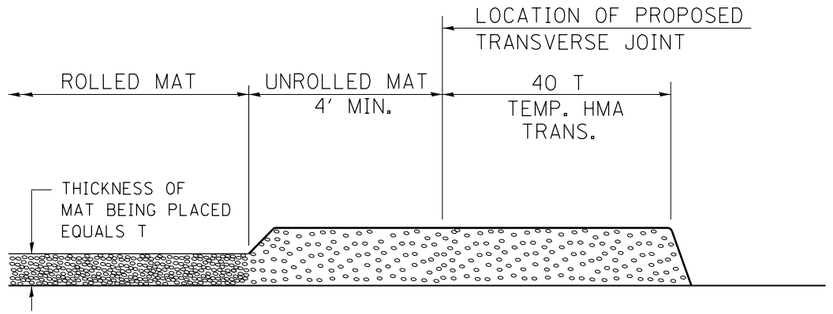
WIDE LOAD SIGNING PLAN

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
24	64(1,2,2-1,3-1,3)RS-2	MASSAC	283	77
		CONTRACT NO. 78606		

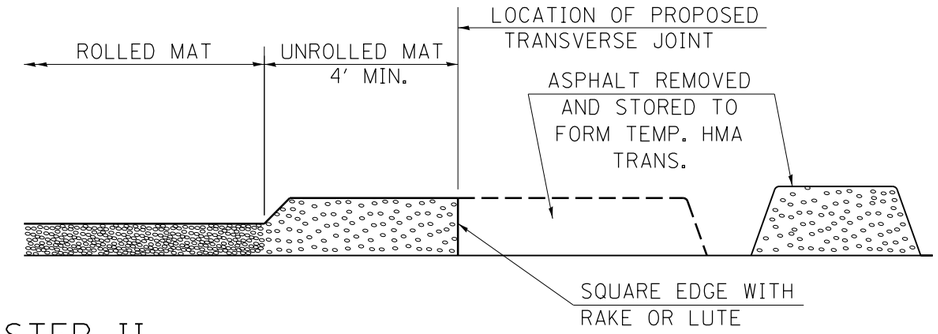
ILLINOIS | FED. AID PROJECT

TEMPORARY HOT-MIX ASPHALT TRANSITIONS



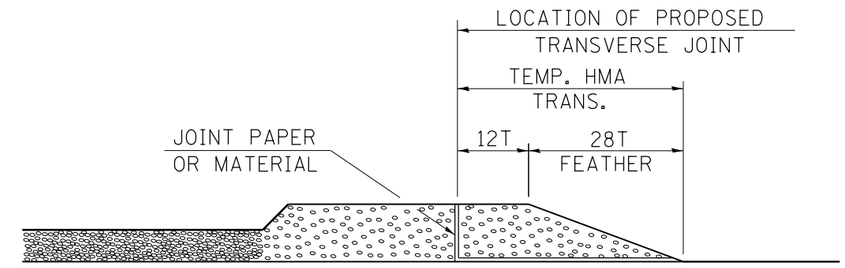
STEP I

1. PLACE HOT-MIX ASPHALT MAT, LENGTH 40 TIMES THE THICKNESS OF THE MAT BEING PLACED PAST THE PROPOSED TRANSVERSE JOINT LOCATION USING NORMAL OPERATING PROCEDURES.
2. EXTREME CARE SHOULD BE TAKEN TO MAINTAIN ENOUGH MATERIAL IN FRONT OF THE SCREED TO MAINTAIN REQUIRED PAVING DEPTH.



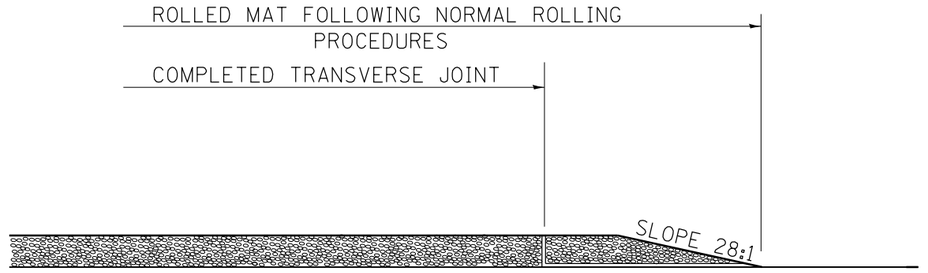
STEP II

1. MOVE THE PAVER OUT OF THE WAY AND REMOVE THE ASPHALT FROM THE AREA OF THE PROPOSED TEMPORARY HOT-MIX ASPHALT TRANSITION.
2. SQUARE UP THE END OF THE MAT WITH A RAKE OR LUTE.
3. NOTE THAT THE MAT WITHIN 4' OF THE END OF JOINT IS NOT TO BE ROLLED AT THIS TIME.



STEP III

1. JOINT PAPER OR OTHER PRESELECTED JOINT MATERIAL IS THEN PLACED IN THE CLEARED AREA AND THE EXCESS ASPHALT USED TO HAND FORM A TRANSITION TO THE DIMENSIONS SHOWN ABOVE.
2. NOTE THAT IN CONSTRUCTING THE TRANSITION, THE MAT DEPTH IS CONTINUED AS PART OF THE TRANSITION BEFORE FORMING THE FEATHER.



STEP IV

1. COMPLETE TEMPORARY TRANSITION BY ROLLING.
2. TO RESUME PAVING, AT THE JOINT, REMOVE TEMPORARY TRANSITION AND DISPOSE OF THE MATERIAL ACCORDING TO ART. 202.03 OF THE STD. SPECS. (COST INCLUDED IN THE CONTRACT).
3. CONSTRUCTING THE TEMPORARY TRANSITIONS WILL NOT BE PAID FOR SEPARATELY IN ACCORDANCE WITH ARTICLE 406.14 OF THE STANDARD SPECIFICATIONS.

REVISIONS

REDRAWN	2-15-89
REVISED	8-16-94
REVISED	01-09-07
RESIZED	05-8-08
REVISED	05-16-13

STD. 9-26

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

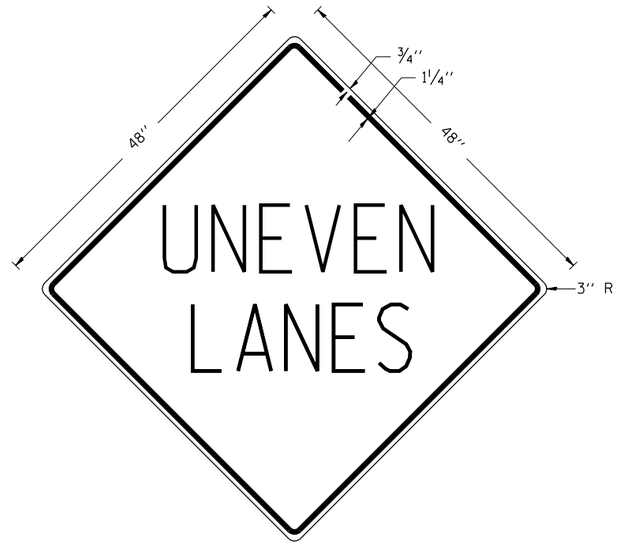
TEMPORARY HOT-MIX ASPHALT TRANSITIONS

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
24	64(1,2,2-1,3-1,3)RS-2	MASSAC	263	78
		CONTRACT NO. 78606		
	ILLINOIS	FED. AID PROJECT		

UNEVEN LANES SIGN

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



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

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

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

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

REVISIONS

DRAWN	2-15-89
REVISED	4-06-93
REDSIGNED	
RESIZED	
REVIEWED	5-17-13

STD. 9-41

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Default	PLOT DATE = 10/21/2020	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

UNEVEN LANES SIGN

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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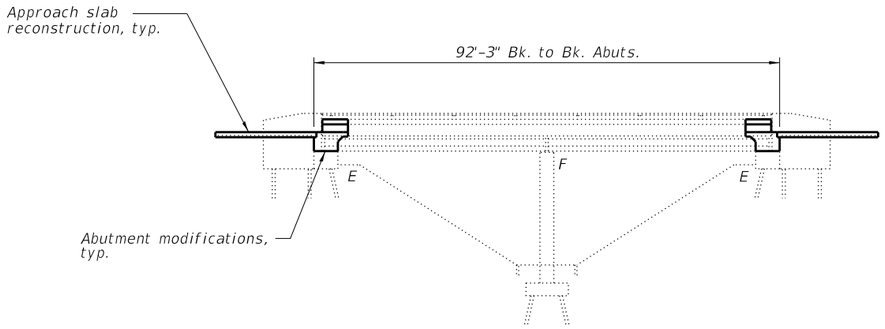
		CONTRACT NO. 78606		
	ILLINOIS FED. AID PROJECT			



ELEVATION

SCOPE OF WORK

1. Remove existing 2¼" concrete wearing surface.

2. Perform deck repairs as shown.

3. Remove and replace bridge approach slabs and pavement connectors including removal of buried pile bent caps.

4. Perform concrete beam end repairs.

5. Convert existing stub abutments to integral abutments. Perform concrete repairs on abutment caps and wingwalls as shown.

6. Install new 3¼" latex concrete wearing and perform diamond grinding, longitudinal bridge grooving and apply protective coat.

Up to ¼ inch may be ground off the bridge deck and the bridge approach slabs.

INDEX OF SHEETS

1 – General Plan and Elevation
2 – General Data
3 – Stage Construction Details
4 – Deck Patching Plan
5 – Temporary Concrete Barrier for Stage Construction
6 – Superstructure
7 – Diaphragm Details
8-9 – Approach Slab Details
10 – Abutment Removal
11 – Bar Splicer Assembly and Mechanical Splicer Details
12-19 – Existing Plans

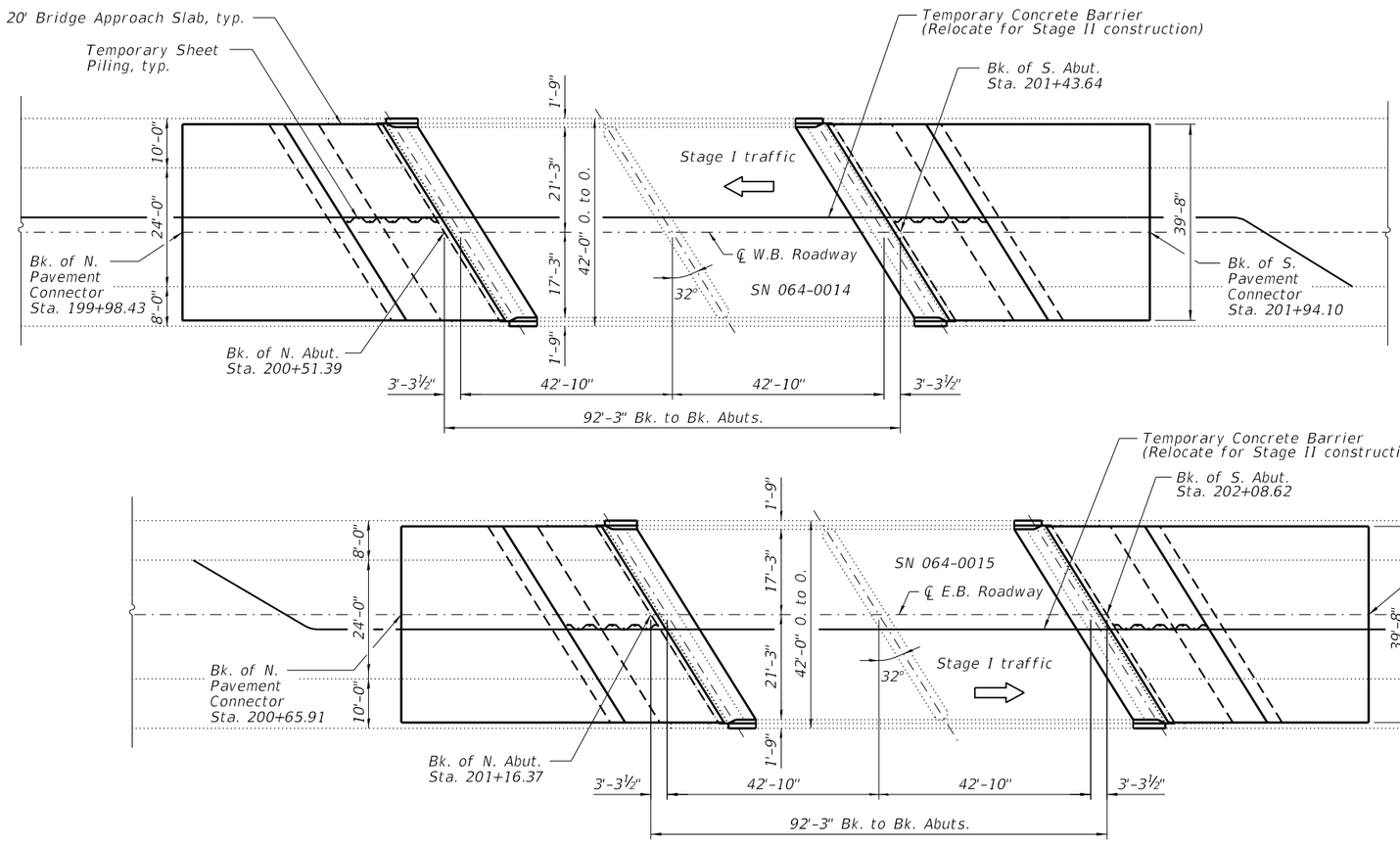
DESIGN STRESSES

FIELD UNITS

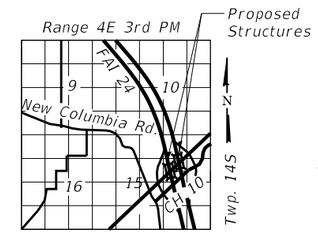
New Construction
f'c = 4,000 psi
fy = 60,000 psi (Reinforcement)

Existing Structure, 2001 Rehabilitation
f'c = 3,500 psi
fy = 60,000 psi (Reinforcement)

Existing Structure, 1968
fc = 1,400 psi
fs = 20,000 psi (Reinforcement)



PLAN



LOCATION SKETCH

GENERAL PLAN AND ELEVATION
I-24 OVER NEW COLUMBIA DITCH
F.A.I. 24, SECTION BRIDGE REPAIR 2021-1
MASSAC COUNTY
STA. 200+97.51 & STA. 201+62.49
SN 064-0014 & 064-0015

MODEL: Default
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL PLAN AND ELEVATION
STRUCTURE NO. 064-0014 (W.B.) & 064-0015 (E.B.)
SHEET 1 OF 19 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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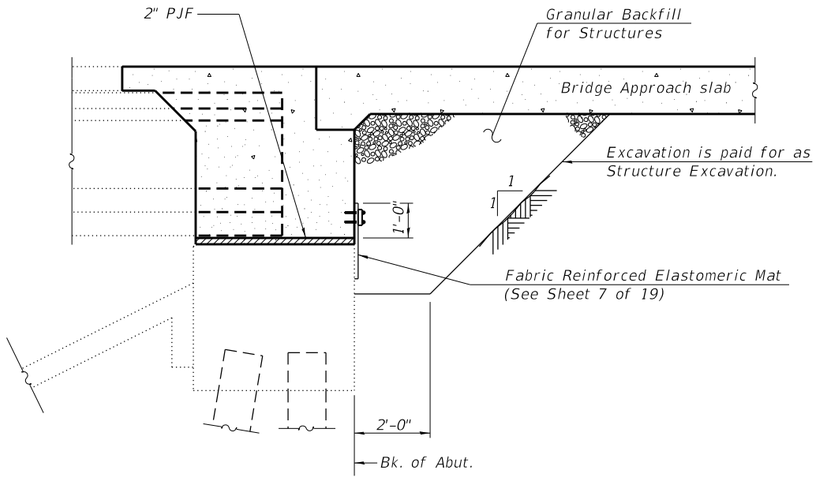
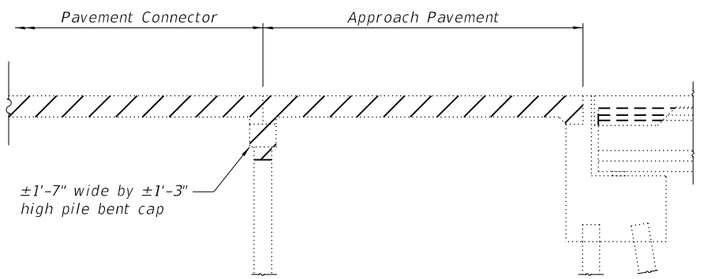
		CONTRACT NO. 78606		
	ILLINOIS FED. AID PROJECT			



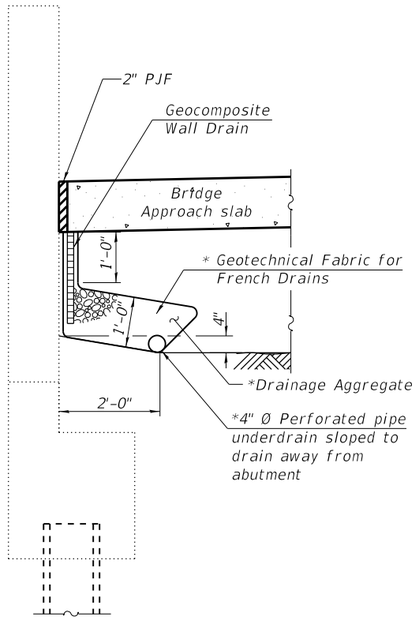
SECTION THRU INTEGRAL ABUTMENT

(Horiz. dim. @ Rt. ∠'s)



APPROACH SLAB REMOVAL

Existing approach slab and pavement connector to be removed. Buried pile bent cap to be completely removed. Piles shall be removed to 2' below finished grade. Approach slab and pavement connector removal shall be paid for as Approach Slab Removal. Pile bent cap removal shall be paid for as Concrete Removal. Pile removal shall be included in the cost of Concrete Removal.



SECTION THRU ABUTMENT WINGWALL

(Horiz. dim. @ Rt. ∠'s)

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

Note:
All drainage system components shall extend 2'-0" from the end of each wingwall except an outlet pipe shall wrap around and extend until intersecting with the side slope. The pipes shall drain into concrete headwalls.
(See Article 601.05 of the Standard Specifications and Highway Standard 601101).

TOTAL BILL OF MATERIAL

ITEM	UNIT	SN 064-0014	SN 064-0015	TOTAL
Paved Shoulder Removal	Sq. Yd.	213	214	427
Concrete Removal	Cu. Yd.	36.5	36.4	72.9
Structure Excavation	Cu. Yd.	60	60	120
Concrete Structures	Cu. Yd.	28.9	28.9	57.7
Concrete Superstructure	Cu. Yd.	65.8	65.3	131.1
Protective Coat	Sq. Yd.	647	647	1294
Concrete Superstructure (Approach Slab)	Cu. Yd.	74.7	74.7	149.4
Reinforcement Bars, Epoxy Coated	Pound	41680	41680	83360
Bar Splicers	Each	300	300	600
Temporary Sheet Piling	Sq. Ft.	462	468	930
Granular Backfill for Structures	Cu. Yd.	169	169	338
Geocomposite Wall Drain	Sq. Yd.	9	9	18
Concrete Headwalls for Pipe Drains	Each	4	4	8
Temporary Concrete Barrier	Foot	354	354	708
Relocate Temporary Concrete Barrier	Foot	354	354	708
Impact Attenuators, Temporary (Non-Redirective), Test Level 3	Each	1	1	2
Impact Attenuators, Relocate (Non-Redirective), Test Level 3	Each	1	1	2
Raised Reflective Pavement Marker	Each	3	3	6
Raised Reflective Pavement Marker (Bridge)	Each	1	1	2
Barrier Wall Reflectors, Type B	Each	9	9	18
Raised Reflective Pavement Marker Removal	Each	4	4	8
Bridge Approach Pavement Connector (Special)	Sq. Yd.	290	290	580
Bridge Deck Grooving (Longitudinal)	Sq. Yd.	353	353	706
Pinning Temporary Concrete Barrier	Each	10	10	20
Raised Reflective Pavement Marker, Reflector Removal	Each	4	4	8
Approach Slab Removal	Sq. Yd.	213	213	426
Bridge Deck Scarification 3"	Sq. Yd.	343	343	686
Structural Repair of Concrete (Depth Equal to or Less Than 5 Inches)	Sq. Ft.	5	20	25
Deck Slab Repair (Full Depth, Type II)	Sq. Yd.	0	6	6
Diamond Grinding (Bridge Section)	Sq. Yd.	842	842	1684
Precast Prestressed Concrete I-Beam Repair	Sq. Ft.	6	7	13
Pipe Underdrains for Structures 4"	Foot	39	39	78
Bridge Deck Latex Concrete Overlay, 3¼ Inches	Sq. Yd.	343	343	686

GENERAL NOTES

1. *Reinforcement bars designated (E) shall be epoxy coated.*
2. *Plan dimensions and details are relative to existing plans and 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.*
3. *To retain the temporary concrete barrier for Stage II Traffic, the Contractor shall have the option of using either 2 (#5) bar splicers or 2 cast in place inserts at 6" centers at the mid-depth of the approach slab and pavement connector. 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 retainer plate and 2 ½" diameter bolt and washers every 6' as shown on Detail II on Standard R-27 (Sheet 5 of 19) from Sta. 199+98.43 to Sta. 200+51.39 and Sta. 201+43.64 to Sta. 201+94.10 for SN 064-0014 and Sta. 200+65.91 to Sta. 201+16.37 and Sta. 202+08.62 to Sta. 202+61.58 for SN 064-0015 for Stage II traffic. This work shall be included in the cost of Temporary Concrete Barrier, no additional compensation shall be provided.*

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL DATA
STRUCTURE NO. 064-0014 (W.B.) & 064-0015 (E.B.)
SHEET 2 OF 19 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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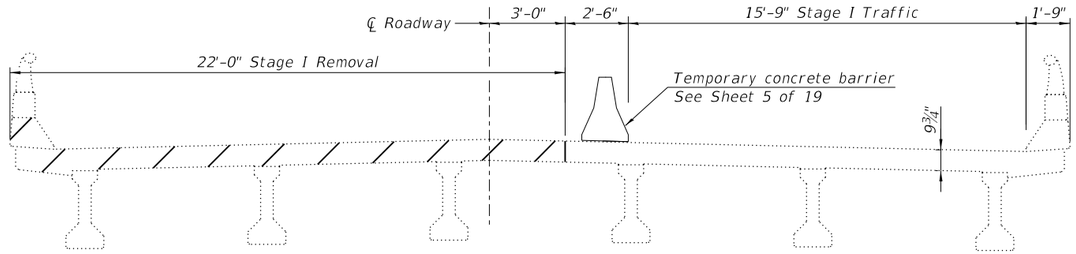
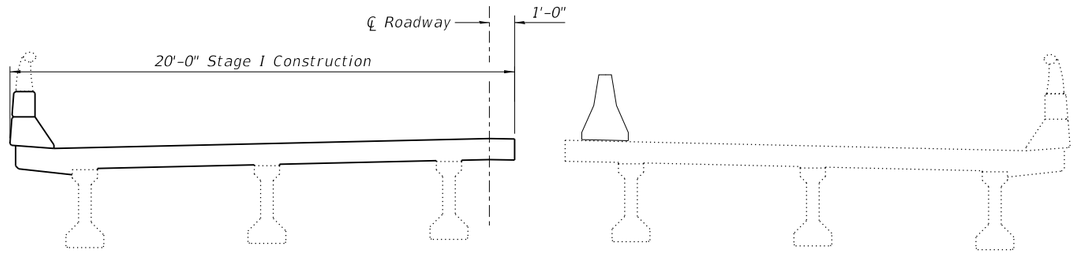
		CONTRACT NO. 78606		
	ILLINOIS FED. AID PROJECT			



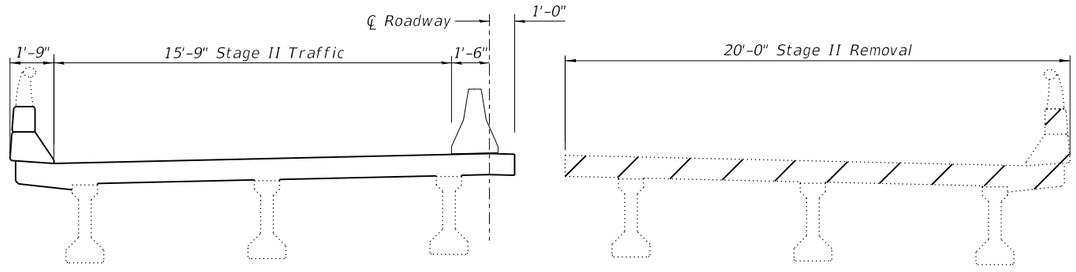
STAGE I REMOVAL

(Looking in the direction of traffic)



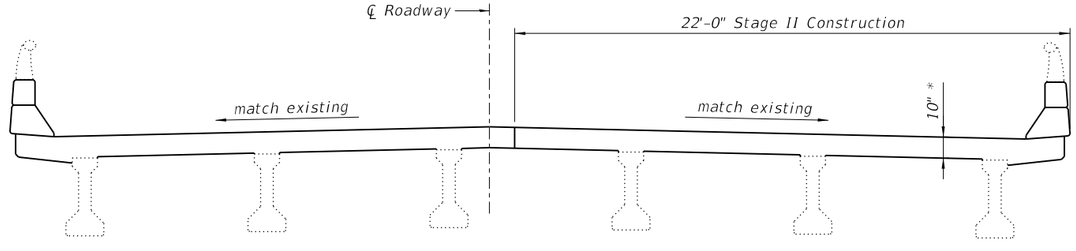
STAGE I CONSTRUCTION

(Looking in the direction of traffic)



STAGE II REMOVAL

(Looking in the direction of traffic)

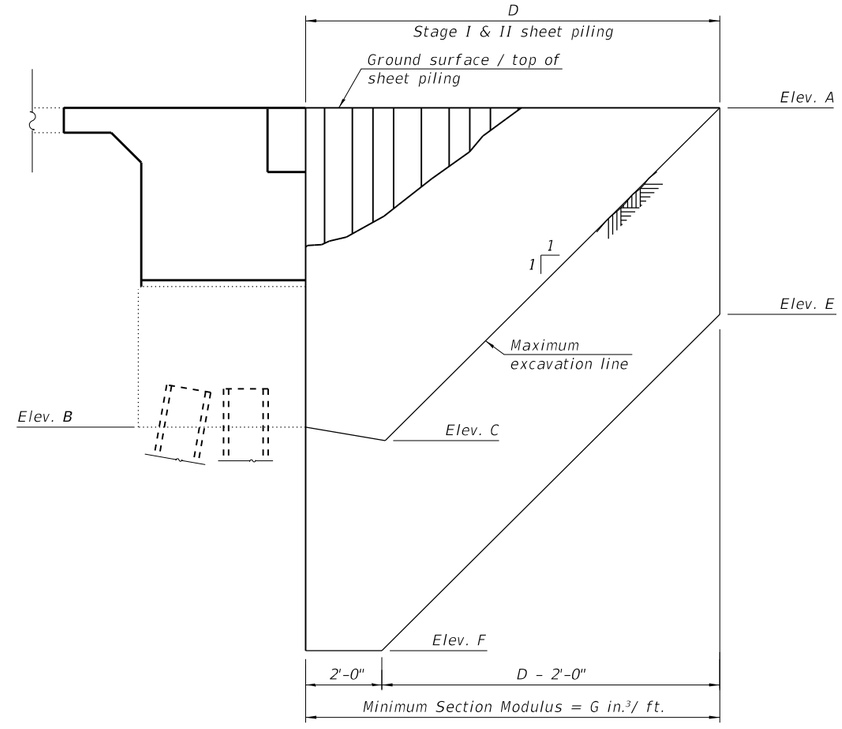


STAGE II CONSTRUCTION

(Looking in the direction of traffic)

* Prior to grinding

Note:
Hatched area indicates, Concrete Removal at abutments.



TEMPORARY SHEET PILING

Location	Elev. A	Elev. B	Elev. C	Dim. D	Elev. E	Dim. F	G (in.³/ft.)
SN 064-0014 N. Abut.	351.37	343.52	343.19	10'-3"	333.95	325.77	12.40
SN 064-0014 S. Abut.	351.34	343.50	343.17	10'-3"	333.92	325.75	12.40
SN 064-0015 N. Abut.	351.35	343.50	343.17	10'-3"	333.43	325.25	13.46
SN 064-0015 S. Abut.	351.31	343.45	343.12	10'-3"	333.81	325.62	12.40

Notes:
Elevations and dimensions shown are approximate based on existing plan data. Exact elevations and dimensions required shall be field verified by the Contractor.
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.

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STAGE CONSTRUCTION DETAILS
STRUCTURE NO. 064-0014 (W.B.) & 064-0015 (E.B.)
SHEET 3 OF 19 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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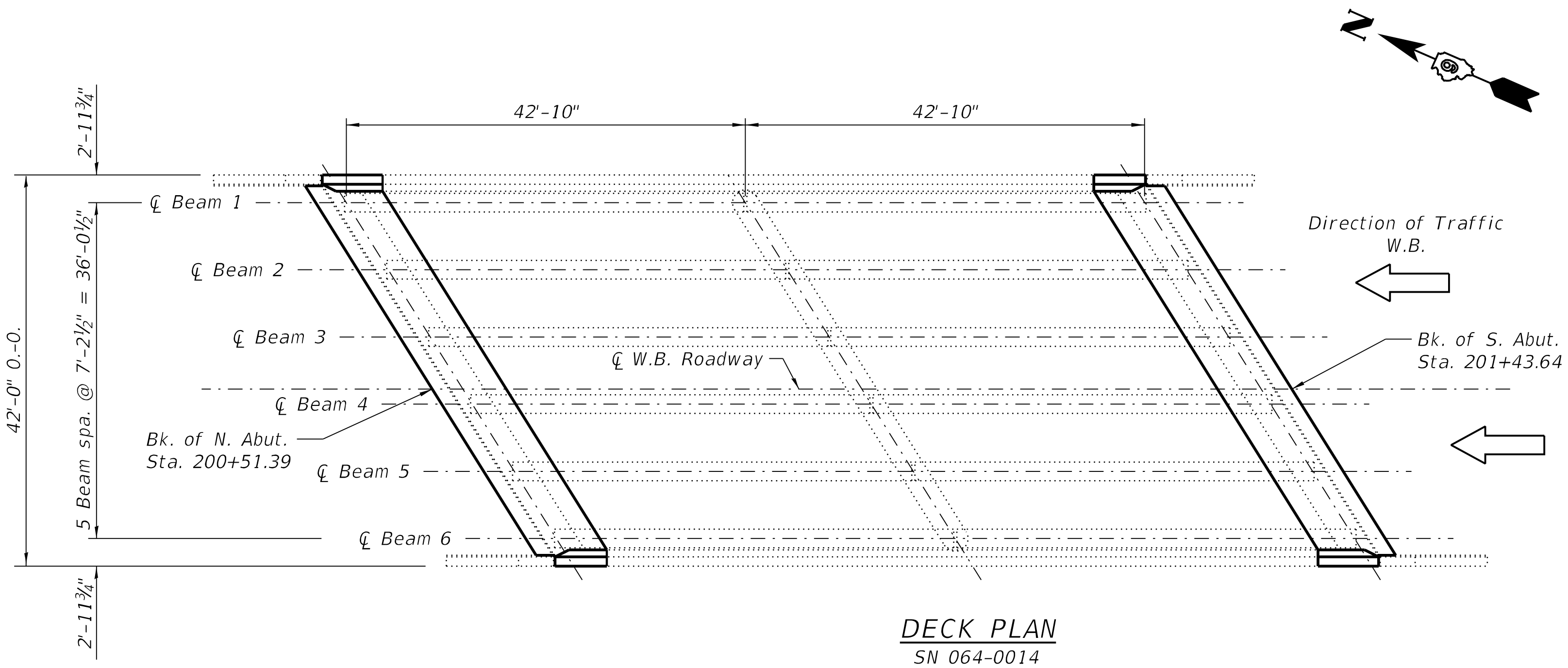
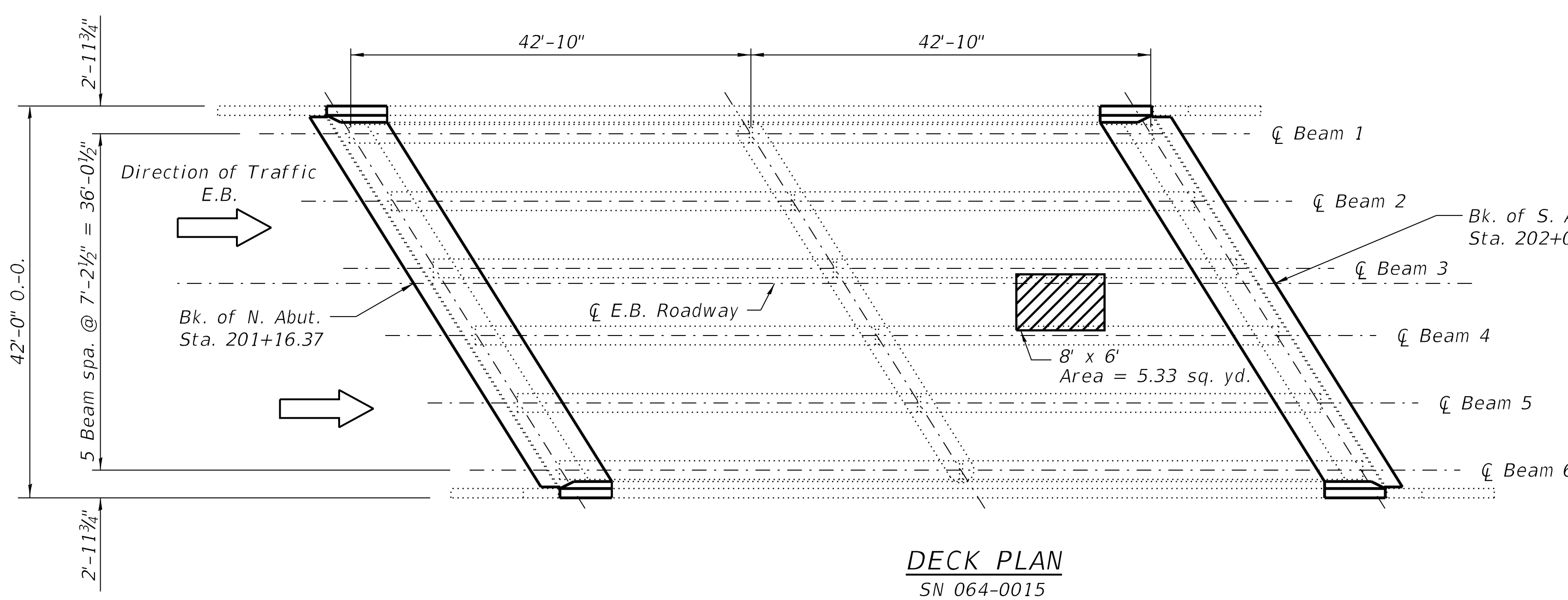
		CONTRACT NO. 78606		
	ILLINOIS	FED. AID PROJECT		



DECK PLAN
SN 064-0014



DECK PLAN
SN 064-0015

Legend

Full Depth, Type II

Notes:
The Resident Engineer will determine final patch locations and quantities in the field after removal of the concrete wearing surface, before bridge deck patching operations begin.

The Engineer shall show actual locations of deck repairs on As-built Plans.

BILL OF MATERIAL

ITEM	UNIT	SN 064-0014	SN 064-0015	TOTAL
Deck Slab Repair (Full Depth, Type II)	Sq. Yd.	0	6	6

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DECK PATCHING PLAN
STRUCTURE NO. 064-0014 (W.B.) & 064-0015 (E.B.)
SHEET 4 OF 19 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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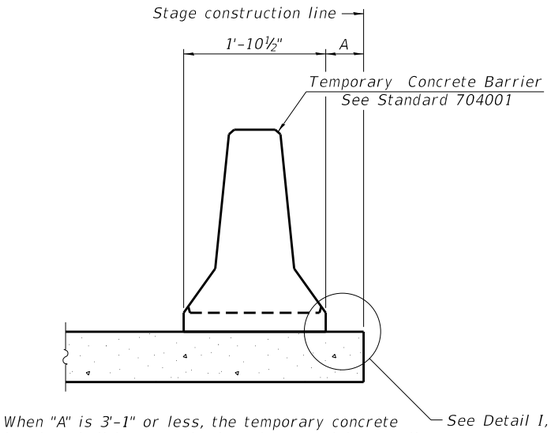
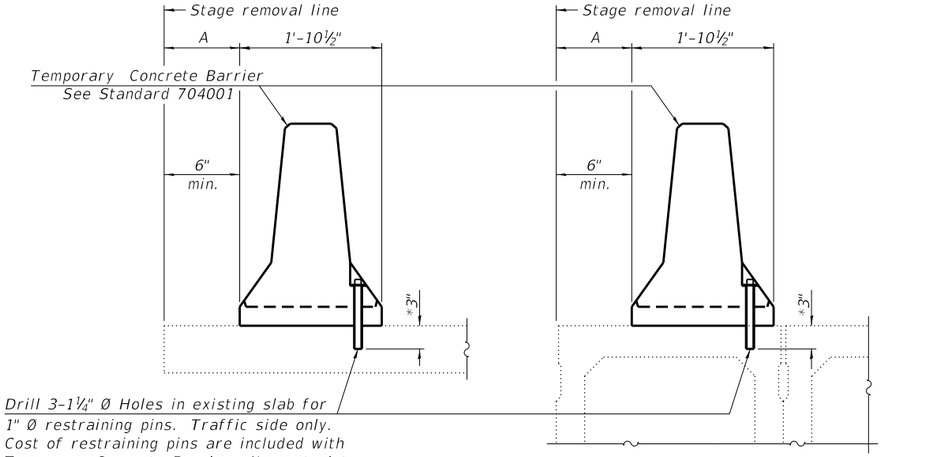
		CONTRACT NO. 78606		
		ILLINOIS FED. AID PROJECT		



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



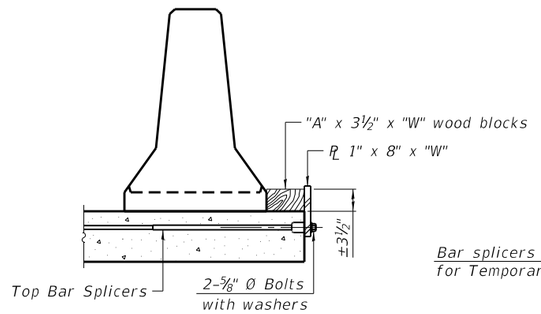
Drill 3-1¼" Ø Holes in existing slab for 1" Ø restraining pins. Traffic side only. Cost of restraining pins are included with Temporary Concrete Barrier. No restraint is required when "A" is greater than 3'-1".

EXISTING SLAB

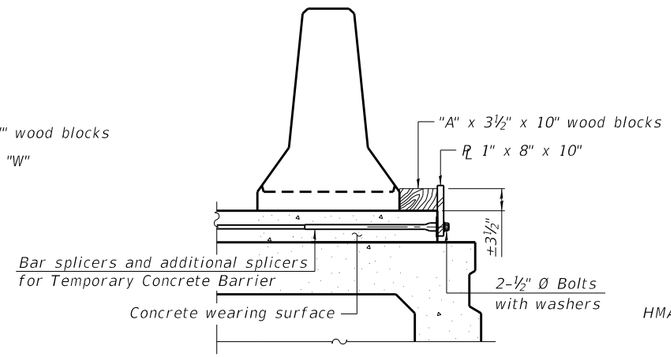
* When hot-mix asphalt wearng surface is present, embedment shall be 3" plus the wearing surface depth.

EXISTING DECK BEAM

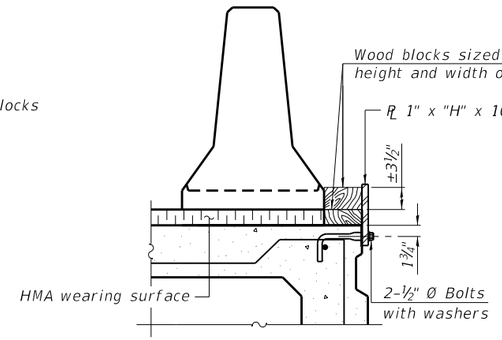
SECTIONS THRU SLAB OR DECK BEAM



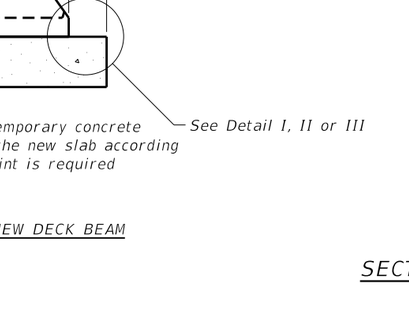
DETAIL I



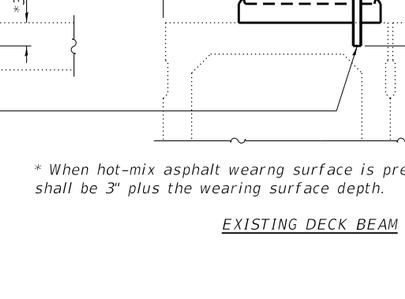
DETAIL II



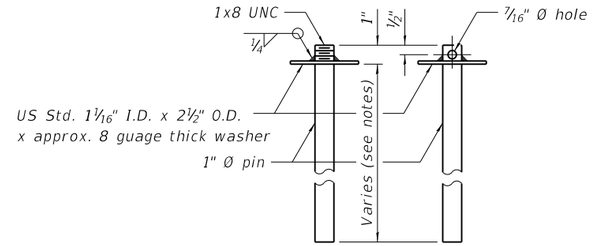
DETAIL III



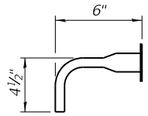
STEEL RETAINER ℄ 1" x 8" x "W"
(Detail I and II)



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



RESTRAINING PIN



BAR SPLICER FOR #4 BAR - DETAIL III

Notes:

Cost of retainer assembly is included with Temporary Concrete Barrier.

A retainer assembly shall be located at the approximate ℄ 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 1½", the wood block shall be omitted and the barrier shall be placed in direct contact with the steel retainer plate. For deck beam applications the minimum required 'A' distance is 6" to accommodate the shear key clamping device.

Detail I - Installation for a new bridge deck or bridge slab.

Detail II - Installation for a new deck beam with an initial concrete wearing surface. Additional bar splicers shall be provided at 6'-0" centers and paired with the bar splicers of the concrete wearing surface reinforcement to accommodate the installation of the retainer assemblies. The cost of the additional bar splicers is included with the concrete wearing surface.

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

R-27

2-17-2017

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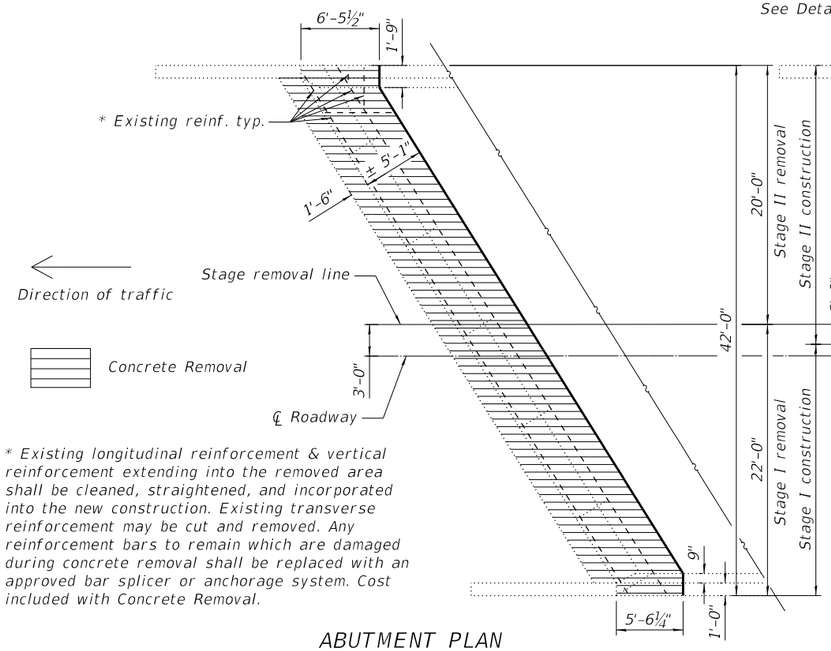
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY CONCRETE BARRIER FOR STAGE CONSTRUCTION
STRUCTURE NO. 064-0014 (W.B.) & 064-0015 (E.B.)

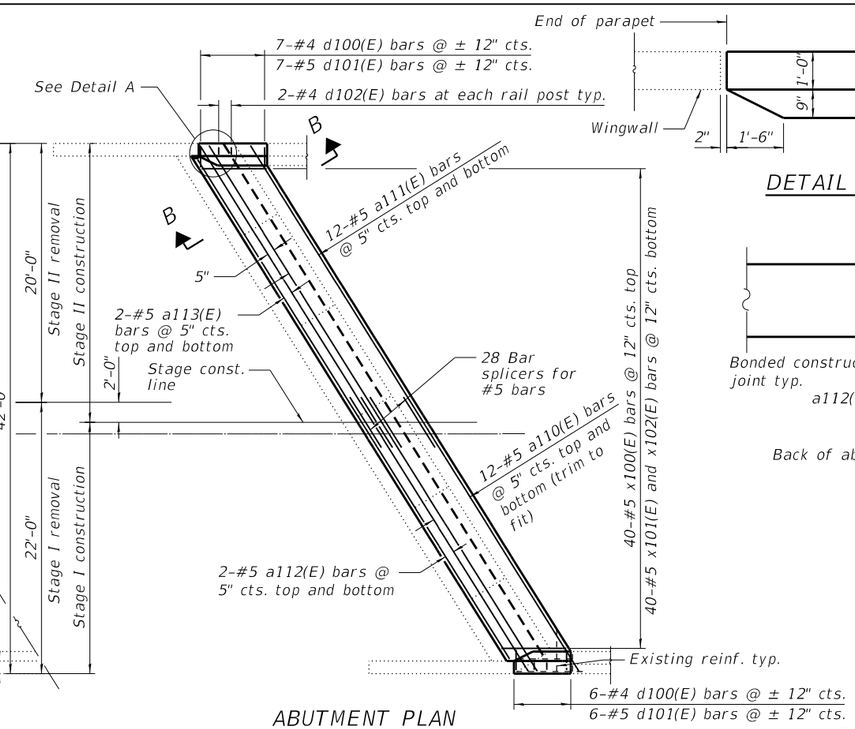
SHEET 5 OF 19 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
24	BRIDGE REPAIR 2021-1	MASSAC	263	84
		CONTRACT NO. 78606		
	ILLINOIS FED. AID PROJECT			



ABUTMENT PLAN
SHOWING CONCRETE REMOVAL

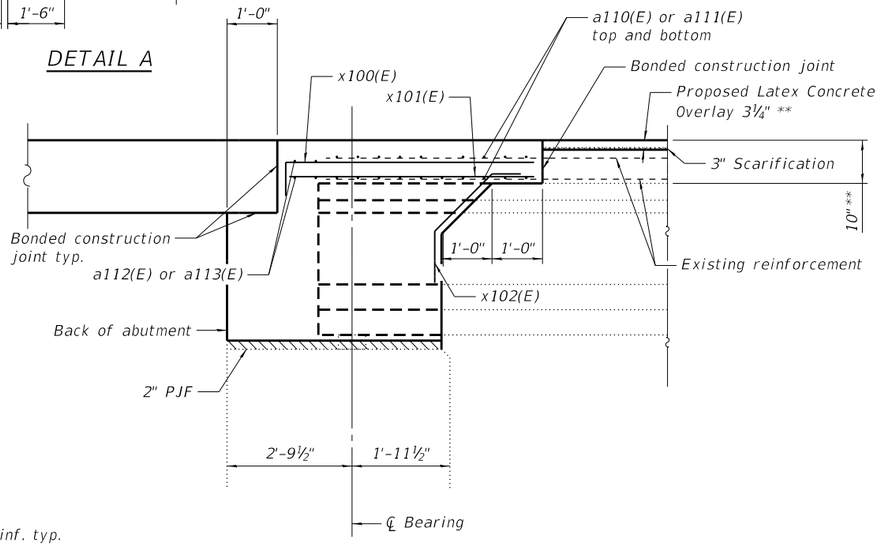
* Existing longitudinal reinforcement & vertical reinforcement extending into the removed area shall be cleaned, straightened, and incorporated into the new construction. Existing transverse reinforcement may be cut and removed. Any reinforcement bars to remain which are damaged during concrete removal shall be replaced with an approved bar splicer or anchorage system. Cost included with Concrete Removal.



ABUTMENT PLAN
SHOWING CONCRETE REPLACEMENT

SN 064-0014 north abutment shown, SN 064-0014 south abutment similar
SN 064-0015 south abutment shown, SN 064-0015 north abutment similar

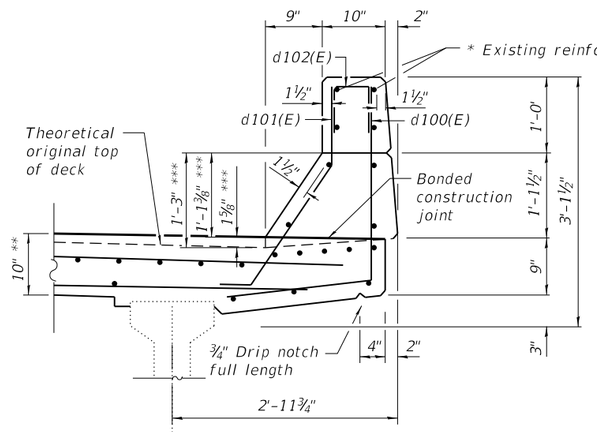
DETAIL A



SECTION B-B
TYPICAL SECTION THRU REPAIRED EXISTING ABUTMENT

(Dimensions measured at right angles)
For section showing deck removal see Sheet 10 of 19.

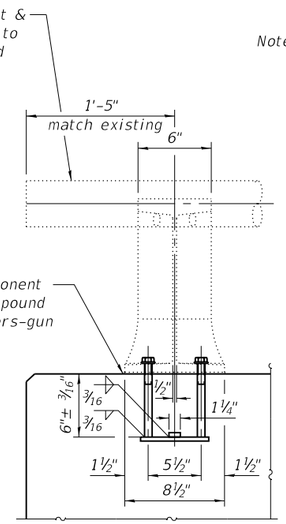
Note: d100(E) and d101(E) bars spaced at 12" cts.



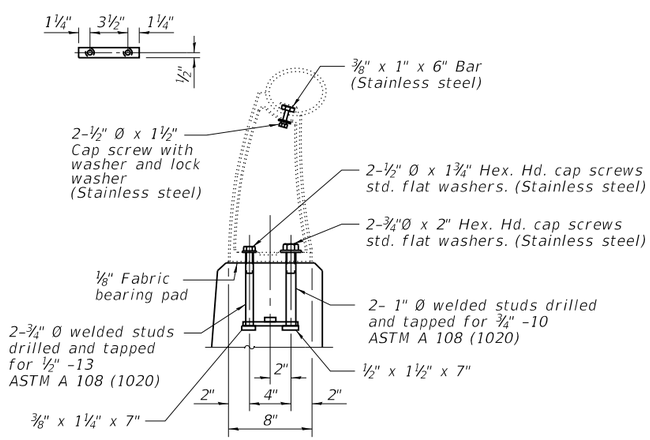
SECTION THRU PARAPET

**** Dimensions based on original 8" deck. Proposed parapet section to align with existing parapet section.*

Existing aluminum end post & hand rail terminal section to be removed and re-erected

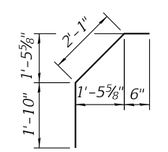


Note: Rail shall be removed and re-erected as necessary to allow structure modifications. Cost included in Concrete Removal.

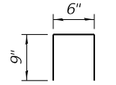


RAIL POST DETAILS

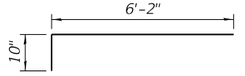
*** Prior to grinding.*



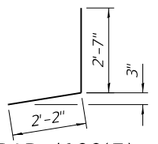
BAR x102(E)



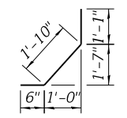
BAR d102(E)



BAR x100(E)



BAR d100(E)



BAR d101(E)

FOUR SUPERSTRUCTURE ENDS
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a110(E)	96	#5	23'-2"	
a111(E)	96	#5	25'-6"	
a112(E)	16	#5	21'-9"	
a113(E)	16	#5	24'-2"	
d100(E)	52	#4	4'-9"	
d101(E)	52	#5	3'-5"	
d102(E)	16	#4	2'-0"	
x100(E)	160	#5	7'-0"	
x101(E)	160	#5	6'-2"	
x102(E)	160	#5	4'-5"	
Concrete Removal			Cu. Yd.	29.3
Concrete Superstructure			Cu. Yd.	131.1
Reinforcement Bars, Epoxy Coated			Pound	8950
Bar Splicers			Each	112

MODEL: Default
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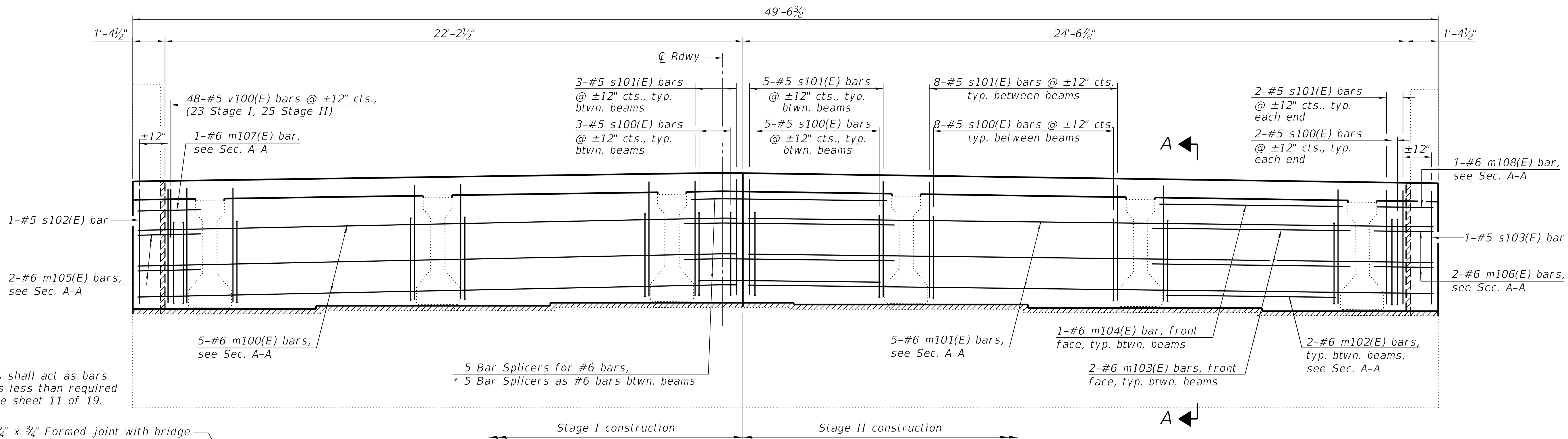
	CHECKED - AS	REVISED -		
PLOT SCALE = N/A	DRAWN - GLD/RAH	REVISED -		SHEET 6 OF 19 SHEETS
PLOT DATE = 11/17/2020 - 6:36:53 PM	CHECKED - JTH	REVISED -		

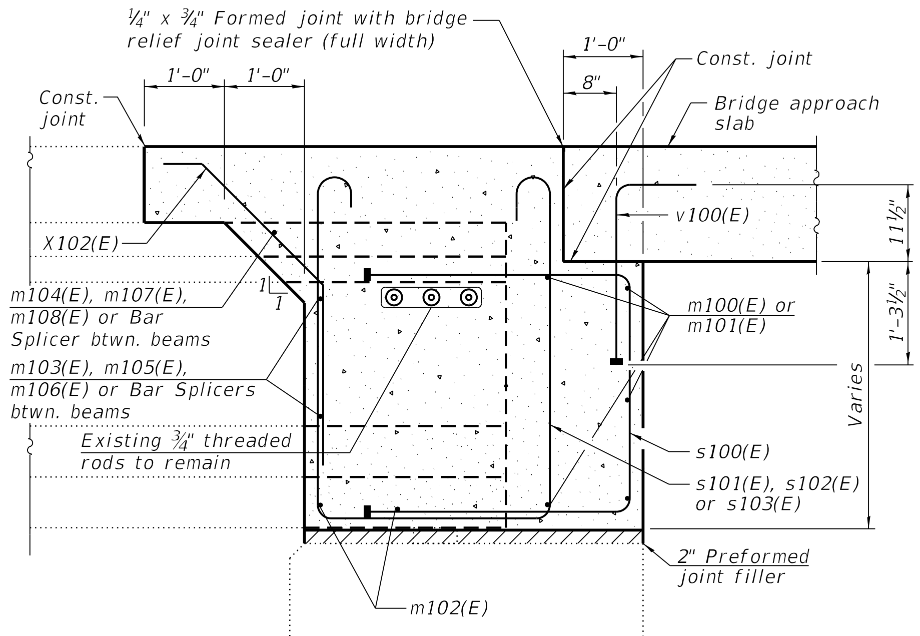
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
24	BRIDGE REPAIR 2021-1	MASSAC	263	85
		CONTRACT NO. 78606		
		ILLINOIS	FED. AID PROJECT	



* Bar splicers shall act as bars when length is less than required lap length. See sheet 11 of 19.

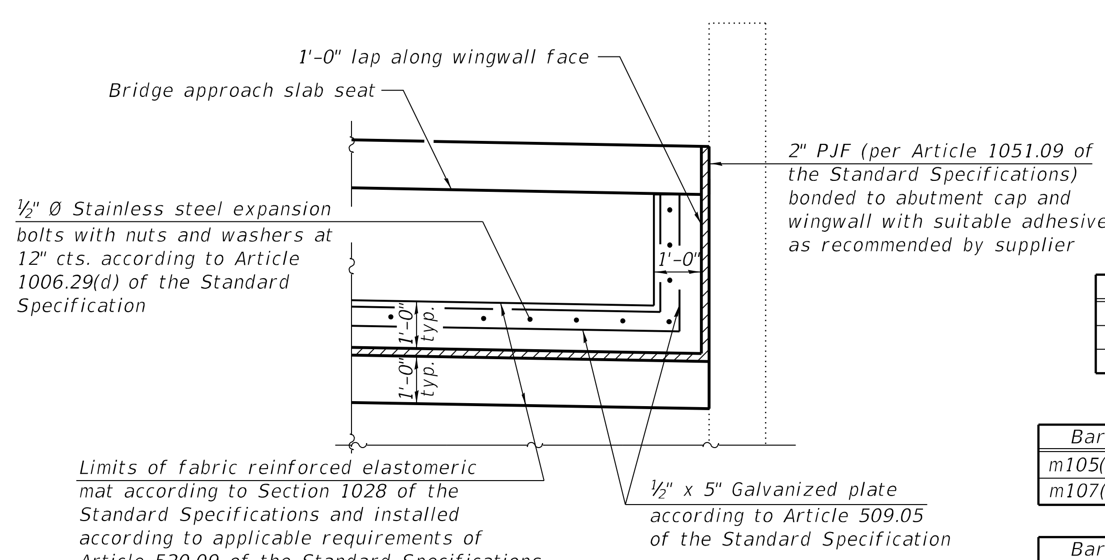
DIAPHRAGM ELEVATION AT ABUTMENT

SN 064-0014 north abutment shown, SN 064-0014 south abutment similar
SN 064-0015 south abutment shown, SN 064-0015 north abutment similar



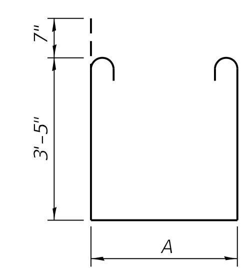
SECTION A-A

(Dimensions measured at right angles)



ELEVATION

(Looking at back of abutment)



Bar	A
s101(E)	3'-10"
s102(E)	3'-7"
s103(E)	2'-7"

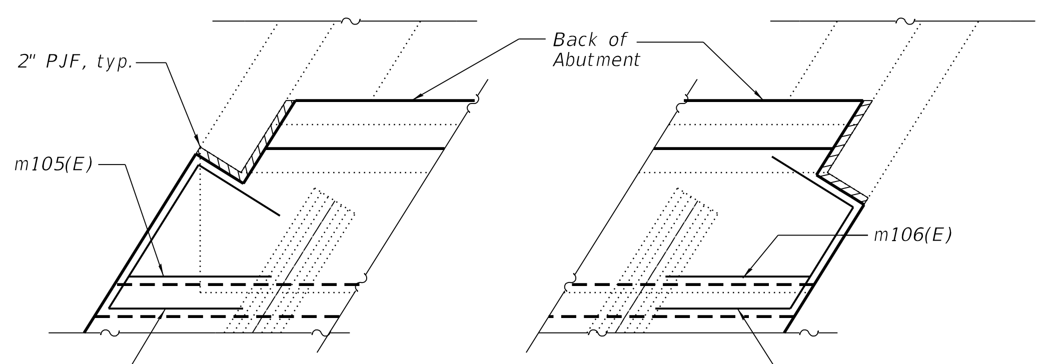
Bar s101(E), s102(E), and s103(E)

Bar	B	C	D	E
m105(E)	2'-10"	3'-7"	2'-4 7/8"	1'-6"
m107(E)	2'-6"	4'-10"	2'-1 1/2"	1'-3 7/8"

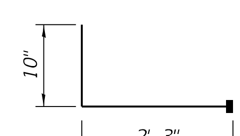
Bar	F	G	H	I
m106(E)	2'-10"	2'-7"	2'-4 7/8"	1'-6"
m108(E)	2'-6"	3'-10"	2'-1 1/2"	1'-3 7/8"

FOUR DIAPHRAGMS BILL OF MATERIAL

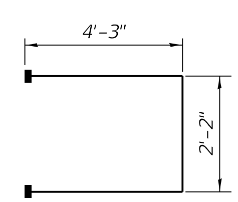
Bar	No.	Size	Length	Shape
m100(E)	20	#6	21'-10"	
m101(E)	20	#6	24'-2"	
m102(E)	32	#6	6'-4"	
m103(E)	32	#6	7'-6"	
m104(E)	16	#6	6'-11"	
m105(E)	8	#6	8'-5"	
m106(E)	8	#6	7'-5"	
m107(E)	4	#6	9'-4"	
m108(E)	4	#6	8'-4"	
s100(E)	176	#5	10'-8"	
s101(E)	176	#5	11'-10"	
s102(E)	4	#5	11'-7"	
s103(E)	4	#5	10'-7"	
v100(E)	192	#5	3'-1"	
Reinforcement Bars, Epoxy Coated			Pound	7350
Bar Splicers			Each	40



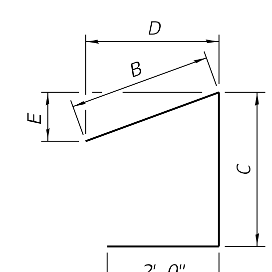
PARTIAL PLAN



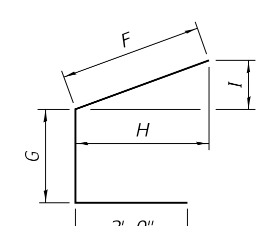
Bar v100(E)



Bar s100(E)



Bar m105(E) and m107(E)



Bar m106(E) and m108(E)

Notes:

Cost of fabric reinforced elastomeric mat, galvanized plates, stainless steel expansion bolts with nuts and washers and installation are included in the cost of Concrete Superstructure.

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.

The s100(E), s101(E), s102(E), s103(E) and v100(E) bars are placed parallel to beams and spaced at right angles to beams.

Concrete Superstructure quantity included in quantity shown on Sheet 6 of 19.

MODEL: Default
FILE NAME: L:\IDOT\190661\WO_1\Draw\Structures\SN 0014 & 0015\007_0014-0015_Diaphragm Details.dgn

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DIAPHRAGM DETAILS
STRUCTURE NO. 064-0014 (W.B.) & 064-0015 (E.B.)

SHEET 7 OF 19 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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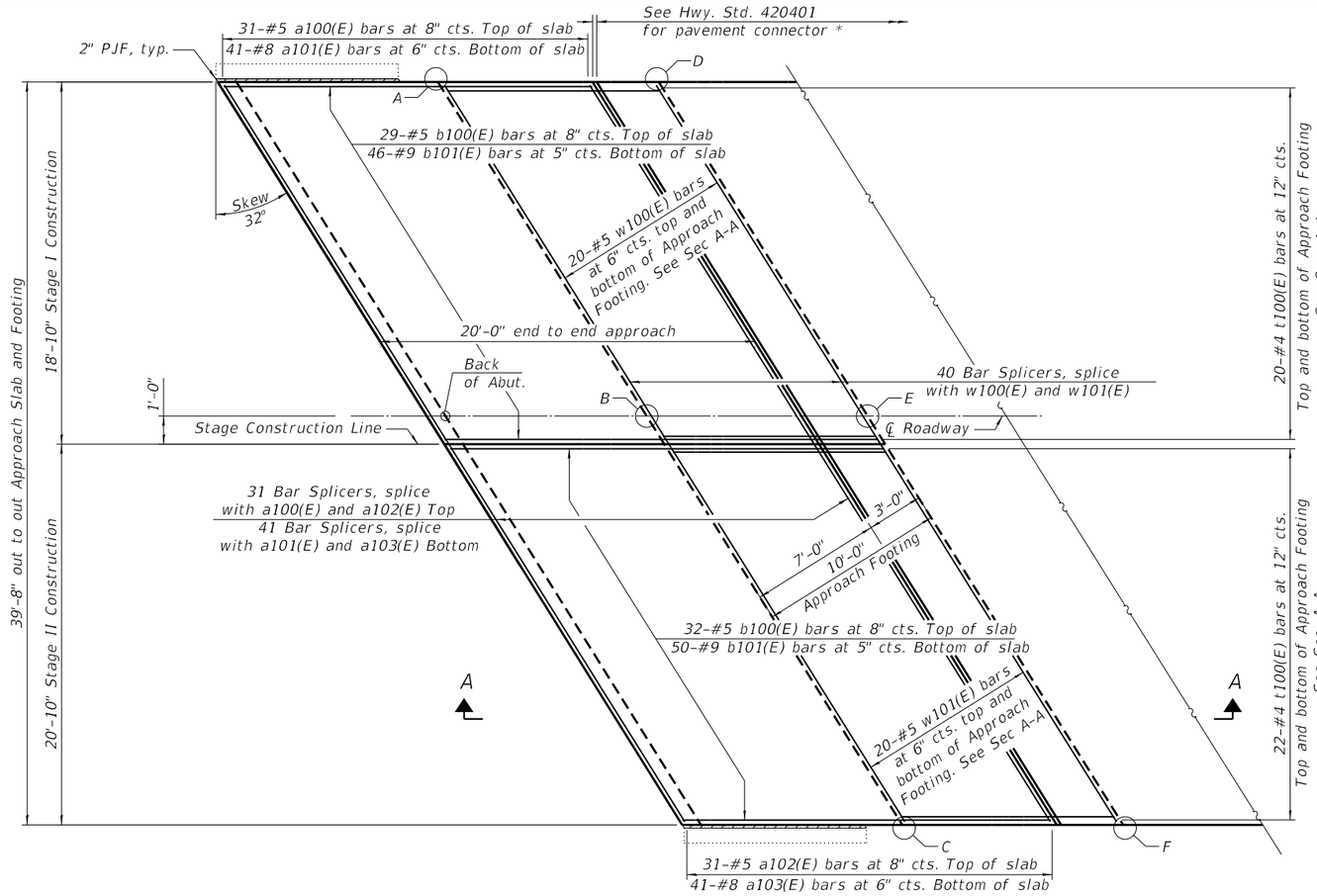
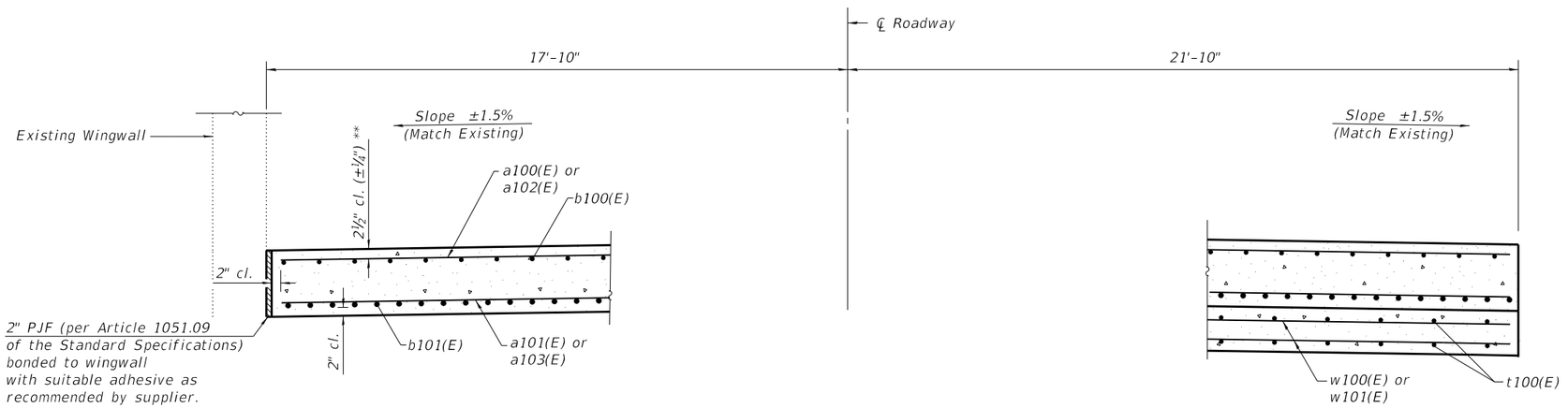
		CONTRACT NO. 78606		
		ILLINOIS	FED. AID PROJECT	



PLAN

SN 064-0014 north approach slab shown, SN 064-0014 south approach slab similar
SN 064-0015 south approach slab shown, SN 064-0015 north approach slab similar



** Prior to grinding

NEAR ABUTMENT

CROSS SECTION

(Looking in the direction of traffic)

AT APPROACH FOOTING

* Pavement connector shall be paid for as Bridge Approach Pavement Connector (Special). The pavement connector shall be constructed per Hwy. Std. 420401 except that the 15'-0" length shall be 20'-6". See Special provision for additional details.

TOP AND BOTTOM ELEVATIONS FOR APPROACH FOOTING

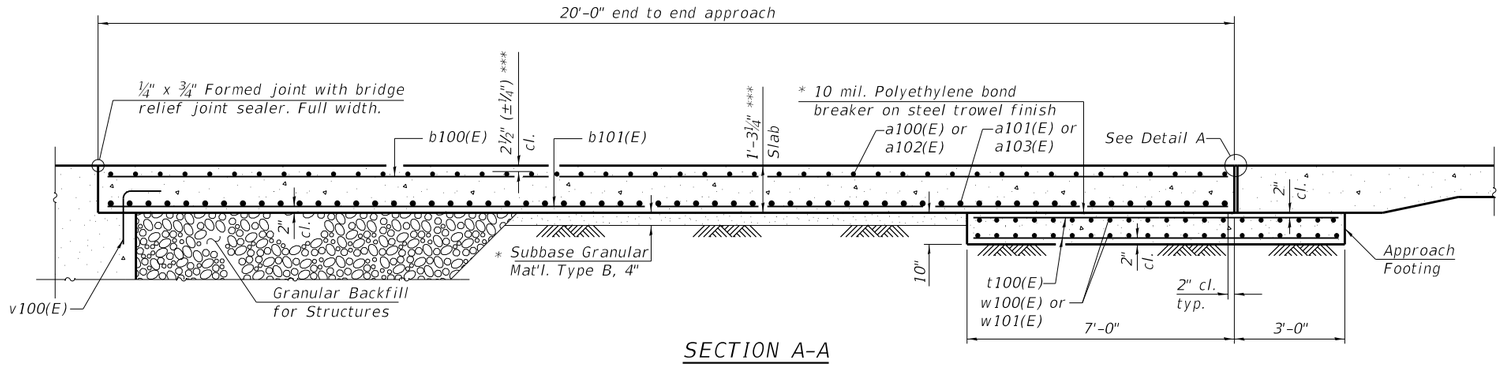
S.N. 064-0014				
	North Approach		South Approach	
Point	Top	Bottom	Top	Bottom
A				
B				
C				
D				
E				
F				

S.N. 064-0015				
	North Approach		South Approach	
Point	Top	Bottom	Top	Bottom
A				
B				
C				
D				
E				
F				

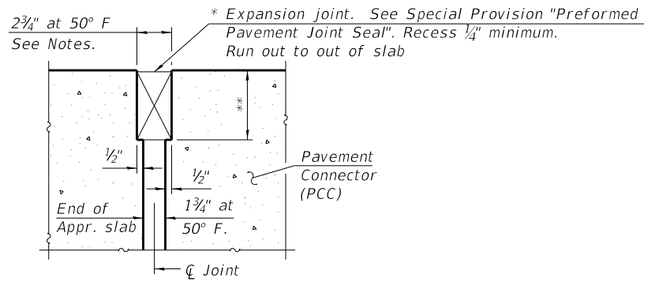
The approach slab shall be placed to match existing elevations. The Contractor shall place the approach footing for the approach slabs to match existing elevations at grade. Blank tables included for field notation.

See Section A-A on Sheet 8 of 19.

(Sheet 1 of 2)



SECTION A-A



DETAIL A
(@ Rt. ∠'s)

* Cost included with Concrete Superstructure (Approach Slab).

** Per manufacturer recommendations.

*** Prior to grinding.

Notes:

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.

Approach slab shall be paid for as Concrete Superstructure (Approach Slab).

Approach footing concrete shall be paid for as Concrete Structures.

The approach footing maximum applied service bearing pressure (Qmax) = 2.0 ksf.

Cost of excavation for approach footing included with Concrete Structures.

For Granular Backfill for Structures and drainage treatment details, see sheet 2 of 19.

FOUR APPROACHES
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a100(E)	124	#5	21'-10"	——
a101(E)	164	#8	21'-10"	——
a102(E)	124	#5	24'-3"	——
a103(E)	164	#8	24'-3"	——
b100(E)	244	#5	19'-8"	——
b101(E)	384	#9	19'-8"	——
t100(E)	336	#4	11'-4"	——
w100(E)	160	#5	21'-10"	——
w101(E)	160	#5	24'-3"	——
Concrete Structures			Cu. Yd.	57.7
Concrete Superstructure (Approach Slab)			Cu. Yd.	149.4
Reinforcement Bars, Epoxy Coated			Pound	67060
Bar Splicers			Each	448

MODEL: Default
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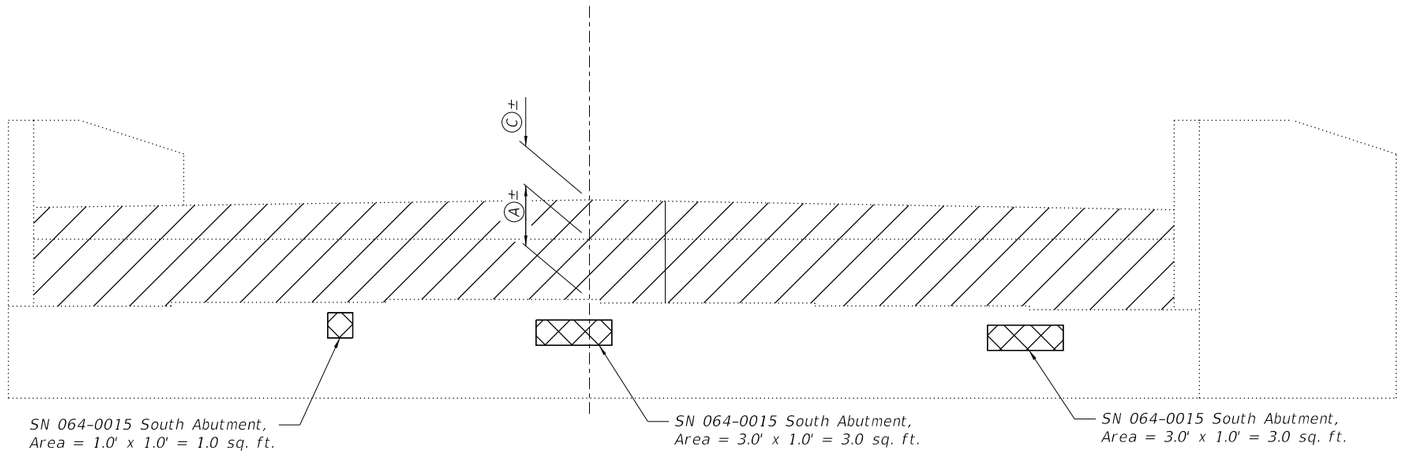
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BRIDGE APPROACH SLAB DETAILS
STRUCTURE NO. 064-0014 (W.B.) & 064-0015 (E.B.)
SHEET 9 OF 19 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
24	BRIDGE REPAIR 2021-1	MASSAC	263	88
		CONTRACT NO. 78606		
	ILLINOIS	FED. AID PROJECT		



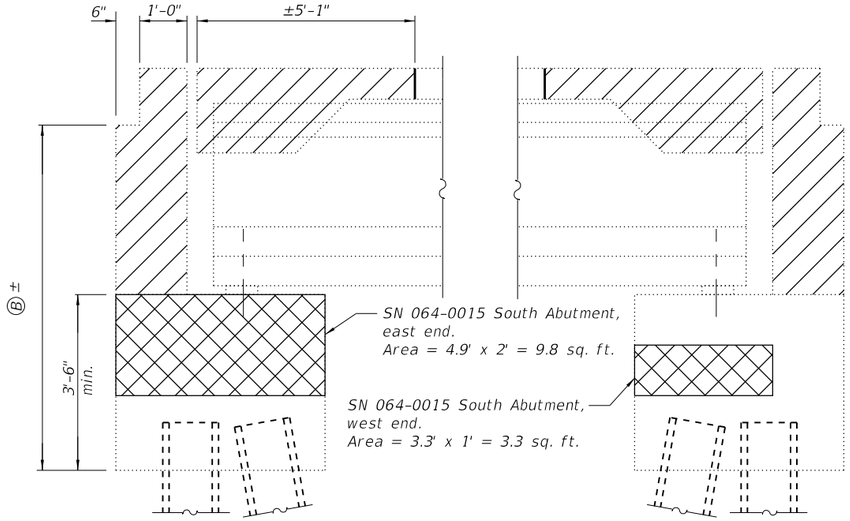
ELEVATION

SN 064-0014 north abutment shown, SN 064-0014 south abutment similar
SN 064-0015 south abutment shown, SN 064-0015 north abutment similar

Location	Dim. A	Dim. B	Dim. C
064-0014 – North Abutment	2'-5⅝"	6'-3½"	1'-6¾"
064-0014 – South Abutment	2'-6⅛"	6'-3"	1'-7"
064-0015 – North Abutment	2'-6⅛"	6'-3"	1'-7¼"
064-0015 – South Abutment	2'-5⅞"	6'-3½"	1'-6⅞"

PLAN

SN 064-0014 north abutment shown, SN 064-0014 south abutment similar
SN 064-0015 south abutment shown, SN 064-0015 north abutment similar



SECTION THRU ABUTMENTS

LEGEND

Concrete Removal

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

BILL OF MATERIAL

ITEM	UNIT	TOTAL
Concrete Removal	Cu. Yd.	36.5
Structural Repair of Concrete (Depth Equal to or Less than 5 Inches)	Sq. Ft.	25

Concrete Removal quantity for deck concrete included in Bill of Material on Sheet 6 of 19.

MODEL: Default
FILE NAME: I:\IDOT\190861\WO_1\Draw\Structures\SN 0014 & 0015\010_0014-0015_Abutment Removal.dgn

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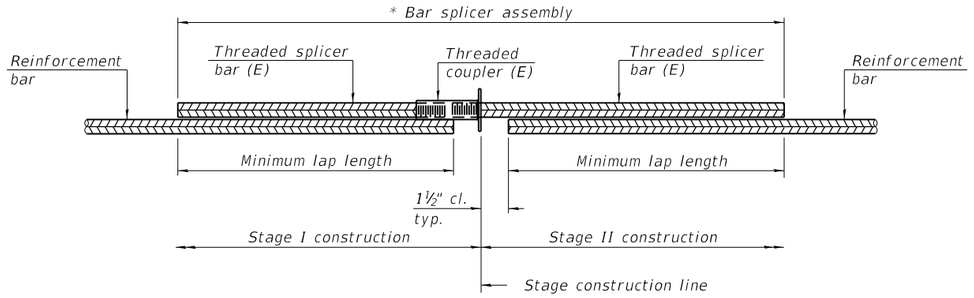
PLOT SCALE = N/A	DRAWN - GLD/RAH	REVISED -		SHEET 10 OF 19 SHEETS
PLOT DATE = 11/17/2020 - 8:36:59 PM	CHECKED - JTH	REVISED -		

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
24	BRIDGE REPAIR 2021-1	MASSAC	263	89
		CONTRACT NO. 78606		
		ILLINOIS	FED. AID PROJECT	



STANDARD BAR SPLICER ASSEMBLY PLAN

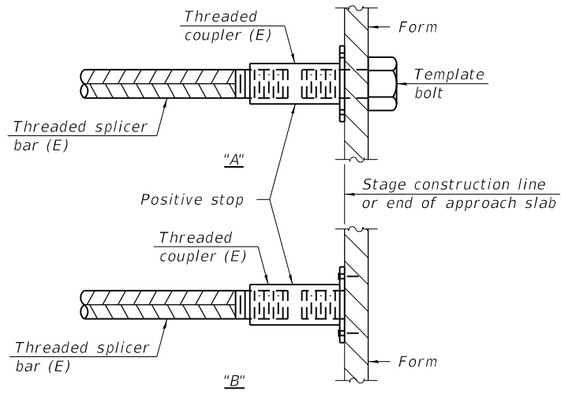
(All components shall be provided from one supplier)

Threaded splicer bar length = min. lap length + 1½" + thread length

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

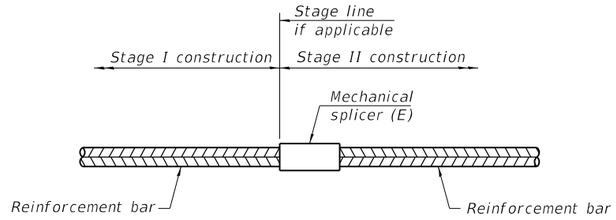
Location	Bar size	No. assemblies required	Minimum lap length
064-0014 N. Abut. Superstructure	#5	28	3'-6"
064-0014 N. Abut. Diaphragm	#6	5	4'-0"
064-0014 N. Abut. Diaphragm	#6	1	**
064-0014 N. Abut. Diaphragm	#6	2	***
064-0014 N. Abut. Diaphragm	#6	2	****
064-0014 N. Approach Slab	#5	31	3'-6"
064-0014 N. Approach Slab	#8	41	6'-9"
064-0014 N. Approach Slab Footing	#5	40	3'-6"
064-0014 S. Abut. Superstructure	#5	28	3'-6"
064-0014 S. Abut. Diaphragm	#6	5	4'-0"
064-0014 S. Abut. Diaphragm	#6	1	**
064-0014 S. Abut. Diaphragm	#6	2	***
064-0014 S. Abut. Diaphragm	#6	2	****
064-0014 S. Approach Slab	#5	31	3'-6"
064-0014 S. Approach Slab	#8	41	6'-9"
064-0014 S. Approach Slab Footing	#5	40	3'-6"
064-0015 N. Abut. Superstructure	#5	28	3'-6"
064-0015 N. Abut. Diaphragm	#6	5	4'-0"
064-0015 N. Abut. Diaphragm	#6	1	**
064-0015 N. Abut. Diaphragm	#6	2	***
064-0015 N. Abut. Diaphragm	#6	2	****
064-0015 N. Approach Slab	#5	31	3'-6"
064-0015 N. Approach Slab	#8	41	6'-9"
064-0015 N. Approach Slab Footing	#5	40	3'-6"
064-0015 S. Abut. Superstructure	#5	28	3'-6"
064-0015 S. Abut. Diaphragm	#6	5	4'-0"
064-0015 S. Abut. Diaphragm	#6	1	**
064-0015 S. Abut. Diaphragm	#6	2	***
064-0015 S. Abut. Diaphragm	#6	2	****
064-0015 S. Approach Slab	#5	31	3'-6"
064-0015 S. Approach Slab	#8	41	6'-9"
064-0015 S. Approach Slab Footing	#5	40	3'-6"

** 2'-1" minimum lap on Stage I side, 4'-5" bar on Stage II side.
*** 2'-4" minimum lap on Stage I side, 4'-9" bar on Stage II side.
**** 1'-10" minimum lap on Stage I side, 4'-2" bar on Stage II side.



INSTALLATION AND SETTING METHODS

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

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BAR SPLICER ASSEMBLY AND MECHANICAL SPLICER DETAILS
STRUCTURE NO. 064-0014 (W.B.) & 064-0015 (E.B.)
SHEET 11 OF 19 SHEETS

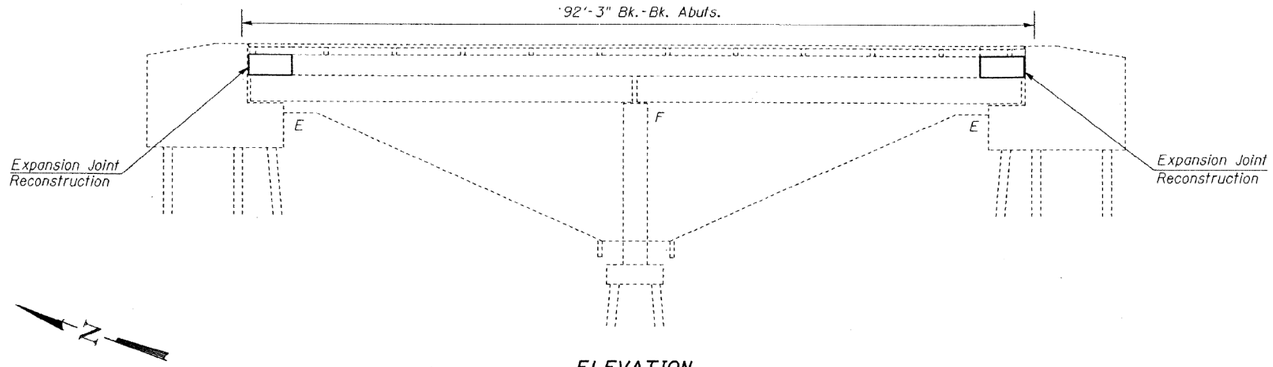
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
24	BRIDGE REPAIR 2021-1	MASSAC	263	90
		CONTRACT NO. 78606		
	ILLINOIS FED. AID PROJECT			

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 24	*	MASSAC	234	133
FED. ROAD DIST. NO. 1		ILLINOIS	FED. AID PROJECT-	

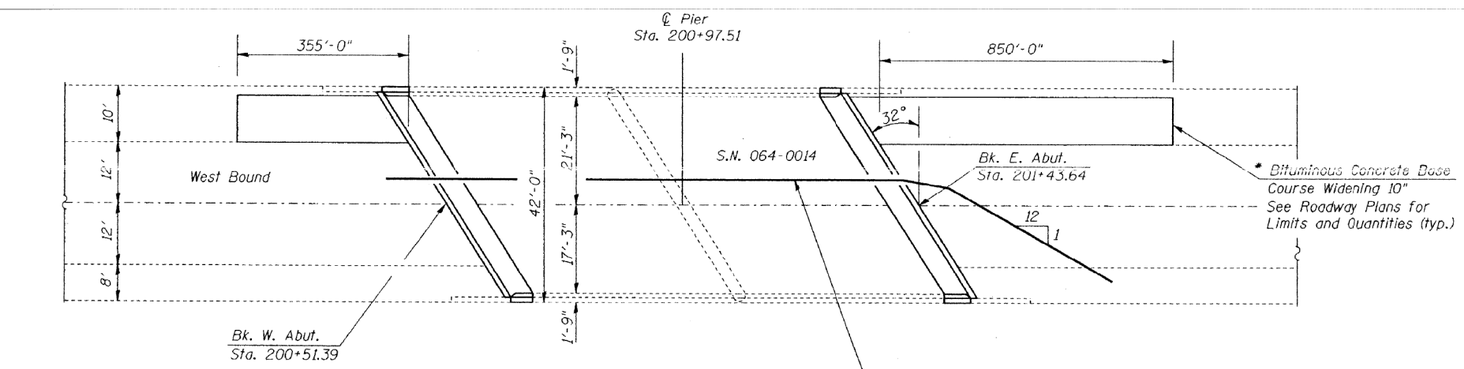
SHEET NO.
SHEETS

* 64(1.2.2-1.3-1.3)RS-1 BSMART FY 2002-2



ELEVATION

Traffic control for these structures shall follow Standard 701402



PLAN

TOTAL BILL OF MATERIAL

ITEM	UNIT	TOTAL	0014	0015
Silicone Joint Sealer, 1½"	FOOT	200	100	100
Polymer Concrete	CU FT	13.8	6.9	6.9
Bridge Deck Microsilica Concrete Overlay 2¼"	SQ YD	680	340	340
Bar Splicers	EACH	68	34	34
Concrete Bridge Deck Scarification (1/2")	SQ YD	644	322	322
Deck Slab Repair (Full Depth, Type II)	SQ YD	1.0	0	1.0
Deck Slab Repair (Partial)	SQ YD	42.6	16.6	26.0
Concrete Superstructure	CU YD	55.0	27.5	27.5
Concrete Removal	CU YD	50.0	25.0	25.0
Bridge Deck Grooving	SQ YD	716	358	358
Reinforcement Bars, Epoxy Coated	POUND	9100	4550	4550
Temporary Concrete Barrier	FOOT	640	320	320
Relocate Temporary Concrete Barrier	FOOT	672	336	336
Temporary Concrete Barrier, Terminal Section	EACH	2	1	1
Plug Existing Deck Drains	EACH	12	6	6
Floor Drain Extensions	EACH	8	4	4

* The Contractor will be allowed the option of placing P.C.C. Pavement in lieu of the Bituminous Concrete used in preparing shoulders for staged traffic. There will be no additional compensation if the P.C.C. Pavement is used.

Shoulder work must be completed before the barrier wall is erected.

SCOPE OF WORK

Replace shoulder with bituminous base course widening.

Scarify existing deck surface.

Remove concrete at abutment joints.

Reconstruct expansion joints with silicone sealer and polymer concrete nosings.

Full and partial depth patching with microsilica overlay.

Eliminate only drains located within 10' of any substructure element.

DESIGN STRESSES

FIELD UNITS

New Construction
f'_c = 3500 psi
f_y = 60,000 psi (reinforcement)

Existing Structure
f'_c = 1400 psi
f_s = 20,000 psi (reinforcement)

CONSTRUCTION SEQUENCE

1. SHOULDER RECONSTRUCTION
2. MILL STAGE I
3. BUILD STAGE I
4. MILL STAGE II
5. BUILD STAGE II

DESIGNED:	CMW
CHECKED:	TWH
DRAWN:	CMW
CHECKED:	TWH

GENERAL PLAN AND ELEVATION
F.A.I. ROUTE 24 OVER NEW COLUMBIA DITCH
SECTION 64(1,2,2-1,3-1,3)RS-1 BSMART FY2002-2
S.N. 064-0014 (W.B.) & S.N. 064-0015 (E.B.)
MASSAC COUNTY

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING PLANS
STRUCTURE NO. 064-0014 (W.B.) & 064-0015 (E.B.)
SHEET 12 OF 19 SHEETS

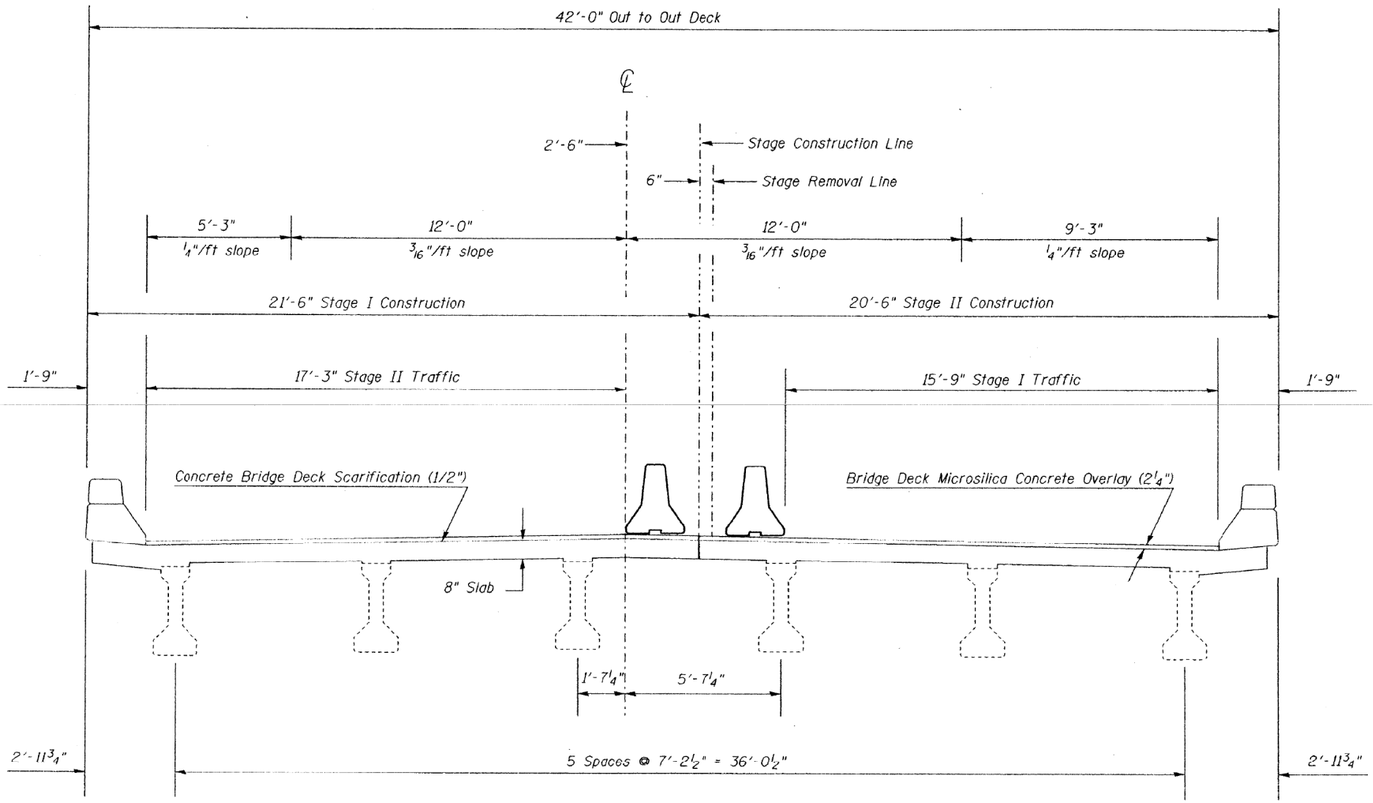
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
24	BRIDGE REPAIR 2021-1	MASSAC	263	91
		CONTRACT NO. 78606		
		ILLINOIS	FED. AID PROJECT	

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 24	*	MASSAC	234	134
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT-	

SHEET NO.
SHEETS

* GA(1.2.2-1.3-1.3)RS-1 BSMART FY 2002-2

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



TYPICAL CROSS SECTION

Looking in the Direction of Traffic
S.N. 064-0014
S.N. 064-0015

GENERAL NOTES

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 or ordering of materials. Such variations shall not be cause for additional compenstion for a change in the scope of the work, however, the Contractor will be paid for the quantity actually furnished at the unit price bid for the work.

Reinforcement bars shall conform to the requirements of AASHTO M-31, M-42 or M-53 Grade 60.

Existing reinforcement bars extending into the removal area 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 included with Concrete Removal.

Quantities shown in the plans for patching are estimates. The actual amount of patching required shall be determined by the engineer.

The Contractor shall use extreme care during concrete removal so as not to damage the PPC I-Beam.

Joint openings shall be adjusted according to Article 503.10(c) of the Standard Specifications when the deck is poured at an ambient temperature other than 50°F.

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a(E)	16	#6	23'-7"	———
a_1(E)	16	#6	22'-6"	———
a_2(E)	32	#7	24'-9"	———
a_3(E)	32	#7	23'-7"	———
a_4(E)	100	#6	7'-6"	———
d(E)	40	#4	4'-9"	L
d_1(E)	40	#5	3'-6"	L
d_2(E)	8	#4	2'-0"	⊓
x(E)	284	#5	8'-0"	⊏
Concrete Removal			CU YD	50.0
Concrete Superstructure			CU YD	55.0
Reinf Bars, Epoxy Ctd.			LBS	9100
Bar Splicers			EACH	68
Polymer Concrete			CU FT	13.8
Silicone Joint Sealer, 1/2"			FOOT	200

FOR INFORMATION ONLY

CROSS SECTION, GENERAL NOTES, BILL OF MATERIAL

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DRAWN:	CMW
CHECKED:	TWH

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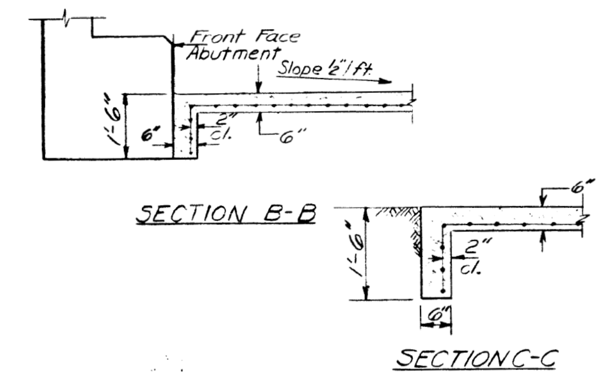
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
24	BRIDGE REPAIR 2021-1	MASSAC	263	92
		CONTRACT NO. 78606		
	ILLINOIS	FED. AID PROJECT		

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

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 24	64-(1HB-1,1B)	Massac	66	28

SHEET NO. 1 / 12 SHEETS



GENERAL NOTES

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

Calculated weight of structural steel = 5040 lbs.

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

The concrete rail section above the mandatory constr. jt. at the top of the slab shall be constructed of Cl. X Conc., except the aggregates shall conform to the requirements of Handrail Concrete.

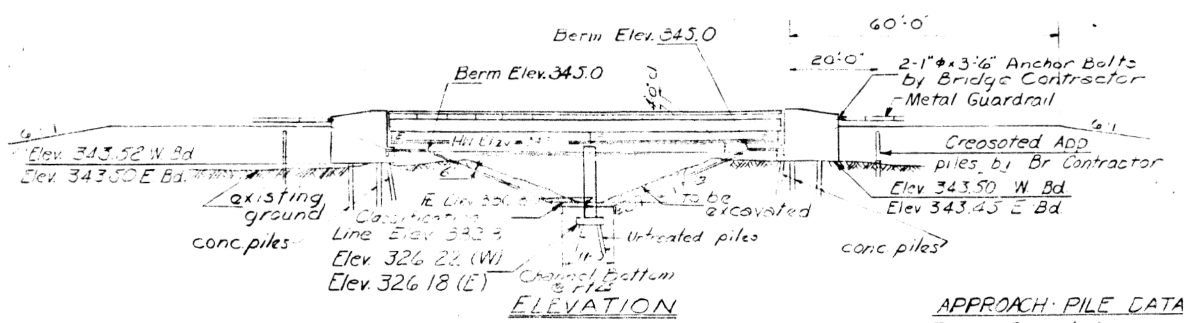
Layout of slope walls may be varied in the field to suit ground conditions as directed by the Engineer.

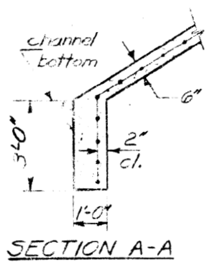
An alternate strand pattern using Extra High Strength Prestressing strand (270 k.s.i.) is permitted.

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

The Contractor shall drive two concrete test piles in permanent locations, one at the South Abutment, West Bound Lane, one at the North Abutment, East Bound Lane; and shall drive one timber test pile in a permanent location at the East pier as directed by the Engineer before ordering the remainder of piles.

Slope wall shall be reinforced with welded wire fabric 6"x6" mesh weighing 58# per 100 sq. ft.

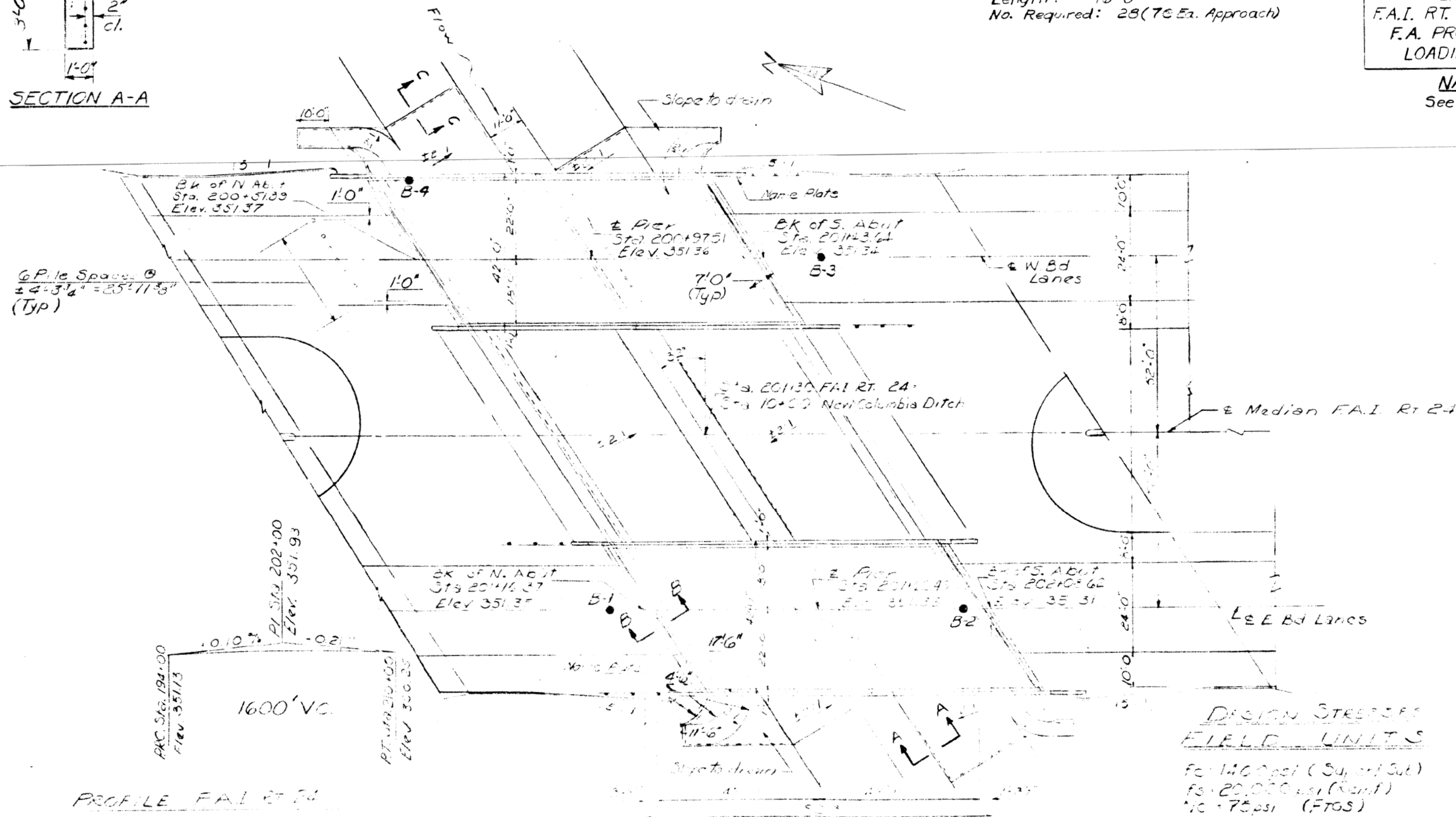




APPROACH PILE DATA
Type: Creosoted
Length: 16'-0"
No. Required: 28 (7 Ea. Approach)

STA. 201+30
NEW COLUMBIA DITCH
BUILT 19
F.A.I. RT. 24 SEC. 64-1B
F.A. PROJ. I-24-1(39)
LOADING HS20 & ALT.

NAME PLATE
See Std. 2113

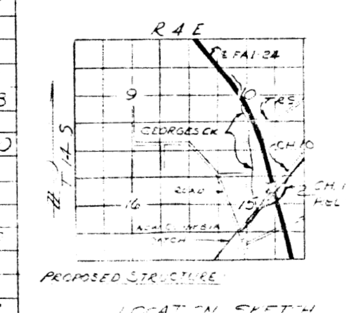


FOR INFORMATION ONLY

TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Class A Excavation for Structure	Cu. Yds.			27
Class B Excavation for Structure	Cu. Yds.			318
Structural Steel	L. S.	.002		.002
F & E. Prec. Pres. Conc. I Bms. (36)	Lin. Ft.	1040		1040
Class X Concrete	Cu. Yds.	277.9	417.9	695.8
Aluminum Railing	Lin. Ft.	354		354
Reinforcement Bars	Lbs.	72150	23320	95470
Untreated Piles	Lin. Ft.		1316	1316
Creosoted Piles (up to 20')	Lin. Ft.			448
Test Piles (Timber)	Each		1	1
Concrete Piles	Lin. Ft.		2640	2640
Test Piles (Concrete)	Each		2	2
Name Plates	Each	2		2
Slopewall (6")	Sq. Yds.			1983
Protective Coat	Sq. Yds.			945
Preformed Joint Sealer	Lin. Ft.	198		198

Class "A" and "B" Excavation for structures includes excavation for slopewall.



DESIGN STRESSES
FIELD UNITS

PRECAST PRESTRESSED UNITS

GENERAL PLAN & ELEVATION
F.A.I. RTE. 24 OVER
NEW COLUMBIA DITCH
SECTION 64-1B
F.A. PROJ. I-24-1(39)25
MASSAC COUNTY
STA. 201+30

DESIGNED	
CHECKED	
DRAWN	
CHECKED	

EXAMINED
PASSED
APPROVED

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING PLANS
STRUCTURE NO. 064-0014 (W.B.) & 064-0015 (E.B.)
SHEET 14 OF 19 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
24	BRIDGE REPAIR 2021-1	MASSAC	263	93

CONTRACT NO. 78606
ILLINOIS FED. AID PROJECT

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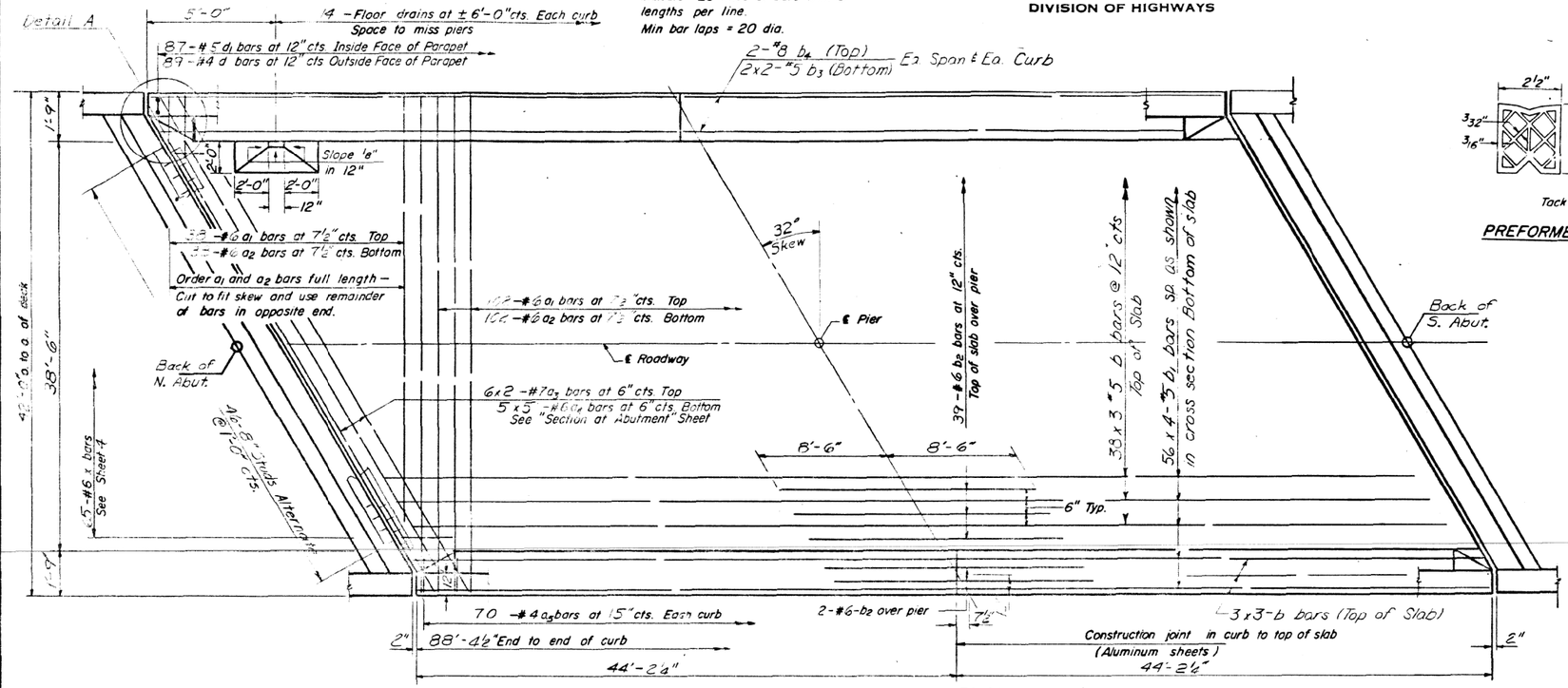
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 24	24-1 BR 5 (1, 1B)	MASSAC	66	29
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		

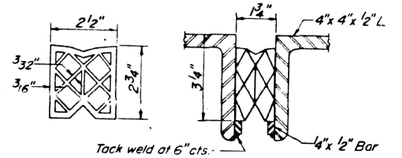
SHEET NO. 2
12 SHEETS

Note:
Bars indicated thus 20 x 3 - #5 etc. indicate 20 lines of bars with 3 lengths per line.
Min bar laps = 20 dia.

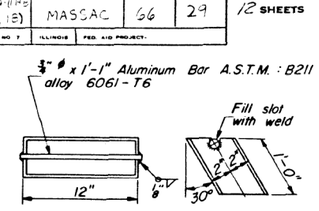
STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS



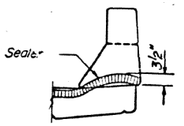
PLAN



PREFORMED JOINT SEALER



FLOOR DRAIN
Cost incidental to Class X Concrete



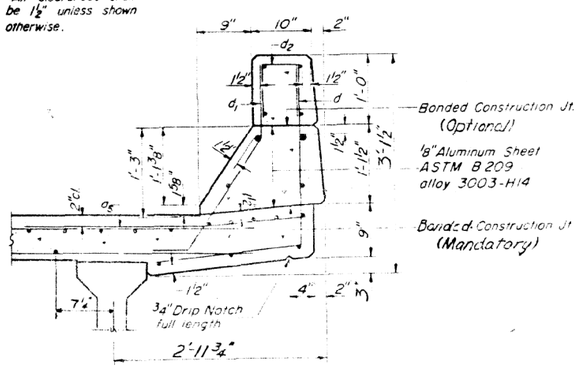
TYPICAL END OF SEALER TREATMENT

TWO BRIDGES
BILL OF MATERIAL

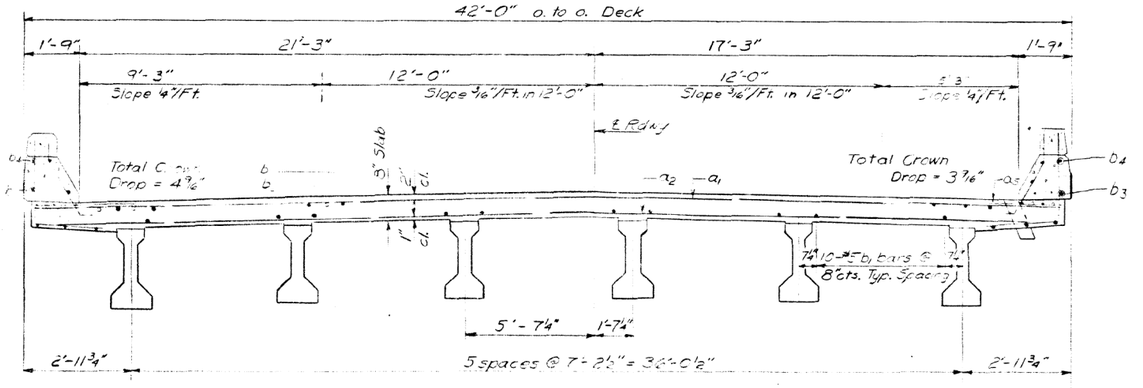
Bar	No.	Size	Length	Shape
a_1	280	#6	41'-3"	
a_2	280	#6	39'-9"	
a_3	48	#7	25'-0"	
a_4	100	#6	7'-6"	
a_5	280	#4	4'-0"	
b	204	#5	30'-3"	
b_1	448	#5	23'-0"	
b_2	86	#6	17'-0"	
b_3	32	#5	22'-3"	
b_4	16	#8	44'-0"	
d	356	#4	4'-9"	L
d_1	312	#5	3'-0"	L
m	40	#4	3'-6"	
m_1	20	#6	2'-9"	
m_2	40	#4	3'-6"	
m_3	40	#4	7'-6"	
s	20	#4	7'-3"	
s_1	100	#4	7'-0"	
x	272	#6	5'-4"	
Reinforcement Bars		lbs.	7[illegible]	
Structural Steel		lbs.	3[illegible]	
Class X Concrete		Cu. Yds.	[illegible]	

For locations and details of bars m, m_1, m_2, s and s_1 see sheets 3 & 4.
The quantities of longitudinal reinforcement and concrete in parapets are billed separately on sheet 3 and are not included above.

All clearances shall be 1½" unless shown otherwise.



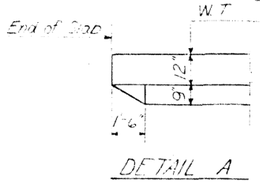
CURB SECTION
Cost of Aluminum Drains and Sheets shall be incidental to Class X Concrete



NEAR PIER

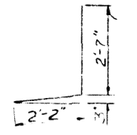
CROSS SECTION
West Bd. Lane, Looking East
East Bd. Lane, Looking West

NEAR MIDSPAN

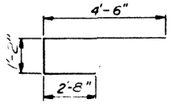


DETAIL A

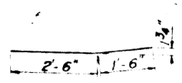
BAR d_1



BAR d



BAR x



BAR a_5

DESIGNED	
CHECKED	
CHECKED	
DRAWN - James R. Carmain	
CHECKED	

EXAMINED Sept. 13 1966
PASSED
APPROVED

PI-1-R (>14°) 1-27-66

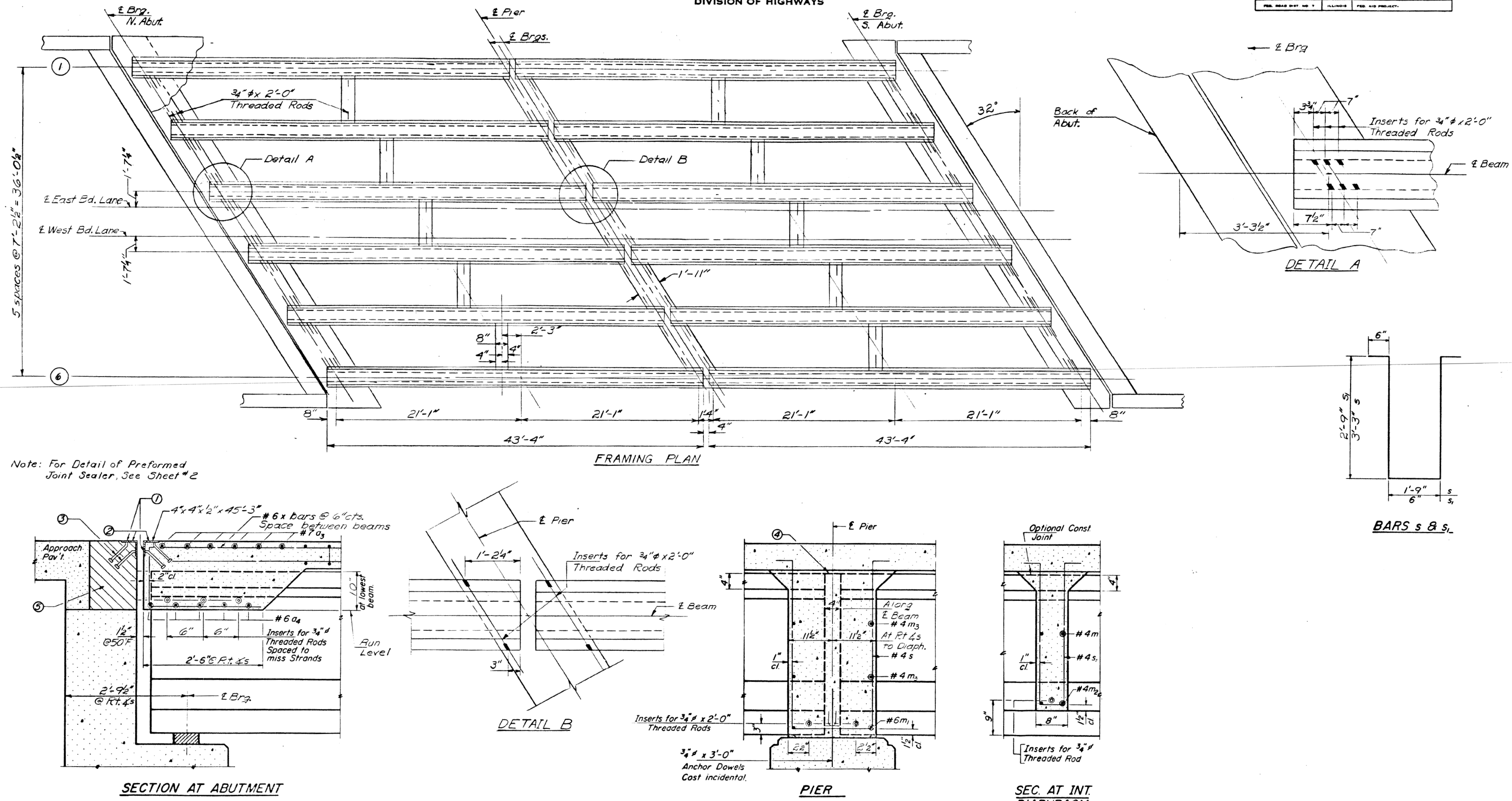
FOR INFORMATION ONLY

SUPERSTRUCTURE
F.A.I. RT. 24 - SEC. 24-1B
MASSAC COUNTY
STA. 201 + 30

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

SHEET NO. 3 / 12 SHEETS

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 24	64-(1HB, 1IB)	MASSAC	66	30



Note: For Detail of Preformed Joint Sealer, See Sheet #2

Bars a_3, a_4; m, m_1, m_2; s & s_1 are included in Bill of Material on Sheet #2

① 7/16"φ holes at 12" cts. for 3/8"φ bolts set on normal gage line. All bolts shall be burned, sawed or chipped off flush with the back of angles after forms are removed.
② 7/16"φ vent holes at 12" cts. set on 1 3/8" gage line.
③ 3/4"φ x 8" CR 1020 STL. granular or solid flux filled headed studs—automatically end welded. (alternate at 1'-0" cts.)
④ Pour diaphragm flush with top of beam. Concrete in slab above this line shall be placed not less than 45 minutes nor more than 90 minutes after diaphragm has been poured.
⑤ Hatched area to be poured after Superstructure forms have been removed. Quantity of Class X Concrete included with Superstructure.

DESIGNED	
CHECKED	W. M. Chen
J.R. Boke DRAWN	Wanless
CHECKED	

EXAMINED: ENGINEER OF BRIDGE AND TRAFFIC STRUCTURES — Sept 19 1968
PASSED: W.E. Baumann, ENGINEER OF DESIGN
APPROVED: V.E. Stoll, CHIEF HIGHWAY ENGINEER

PI-2J 1-27-66

FRAMING DETAILS
F.A.I. RT. 24 SEC. 64-1B
MASSAC COUNTY
STA. 201+30

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EXISTING PLANS
STRUCTURE NO. 064-0014 (W.B.) & 064-0015 (E.B.)
SHEET 16 OF 19 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
24	BRIDGE REPAIR 2021-1	MASSAC	263	95
		CONTRACT NO. 78606		
	ILLINOIS	FED. AID PROJECT		

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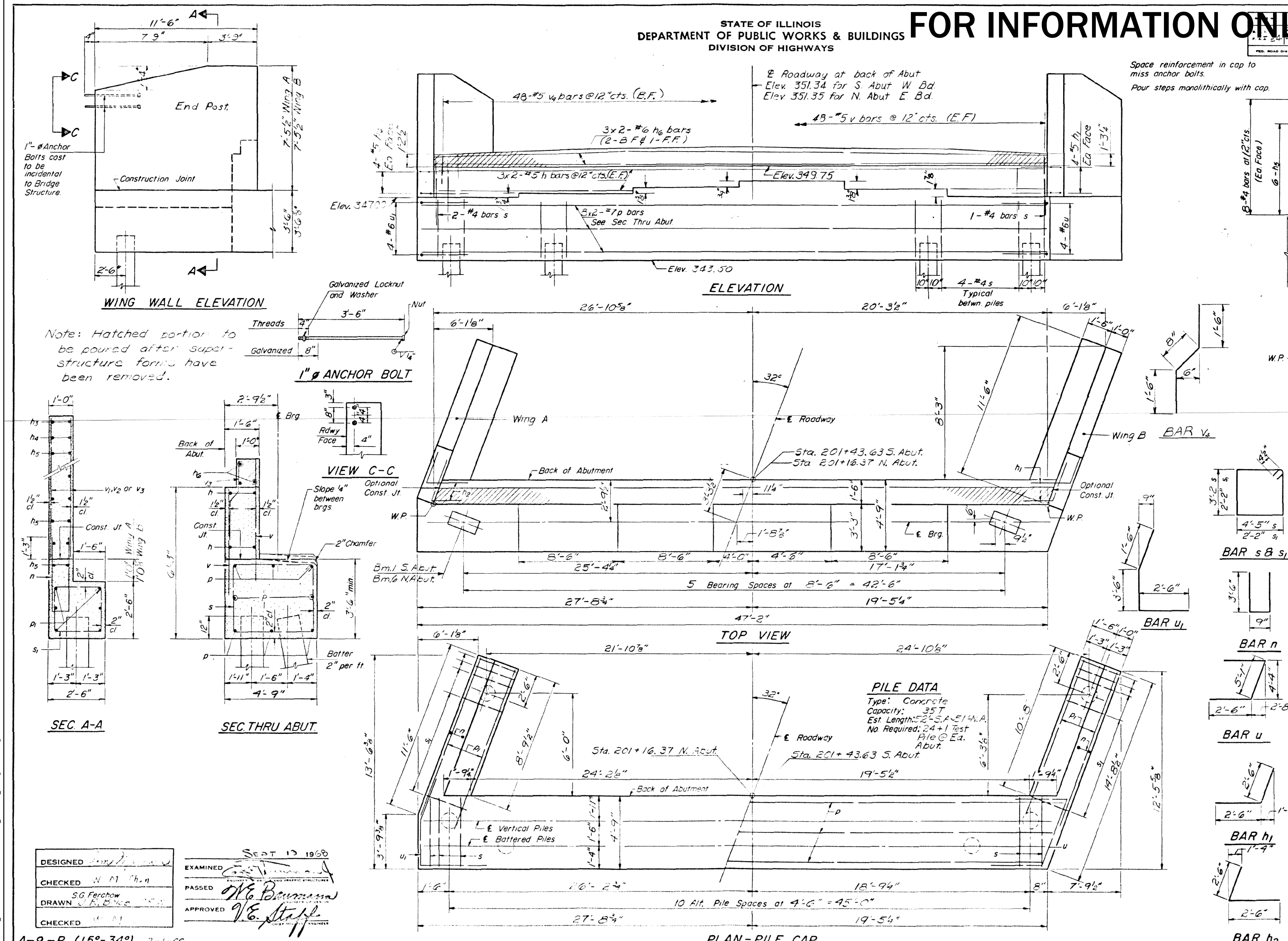
STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS

FOR INFORMATION ONLY

SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
24-1-B	MASSAC	66	35

SHEET NO. 8
12 SHEETS



TWO ABUTMENTS
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h	24	#5	24'-0"	—
h_1	16	#5	5'-0"	
h_2	16	#5	5'-0"	
h_3	8	#4	3'-6"	—
h_4	8	#4	7'-6"	—
h_5	56	#4	11'-3"	—
h_6	12	#6	23'-3"	—
n	48	#5	7'-3"	
p	32	#7	25'-6"	—
p_1	24	#7	11'-3"	—
s	88	#4	15'-[illegible]	
s_1	48	#4	9'-5"	
u	8	#6	10'-1"	
u_1	8	#6	7'-6"	
v	[illegible]	#5	5'-3"	—
v_1	32	#4	7'-3"	—
v_2	32	#4	6'-6"	—
v_3	32	#4	5'-9"	—
v_4	[illegible]	#5	3'-8"	
Class X Concrete			Cu. Yds.	[illegible]
Reinforcement Bars			Lbs.	[illegible]
Concrete Piles			Lin. Ft.	[illegible]
Test Piles (Concrete)			Ea.	2

SOUTH ABUT. ~ W. BD. LANE
NORTH ABUT. ~ E. BD. LANE
F.A.I. RT. 24 SEC. 64-1B
MASSAC COUNTY
STA. 201+30

DESIGNED
CHECKED N. M. Chen
DRAWN S.G. Ferchow / J.R. Boke
CHECKED
EXAMINED Sept 13 1968
PASSED N.E. Baumann
APPROVED V.E. Stepf

A-9-R (15°-34°) 2-1-66

USER NAME = Misael Cordova	DESIGNED - MAC	REVISED -
	CHECKED - AS	REVISED -
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING PLANS
STRUCTURE NO. 064-0014 (W.B.) & 064-0015 (E.B.)
SHEET 17 OF 19 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
24	BRIDGE REPAIR 2021-1	MASSAC	263	96

CONTRACT NO. 78606
ILLINOIS FED. AID PROJECT

MODEL: Default
FILE NAME: L:\IDOT\190661\WO_1\Draw\Structures\SN 0014 & 0015\017_0014-0015_Existing Plans-006.dgn

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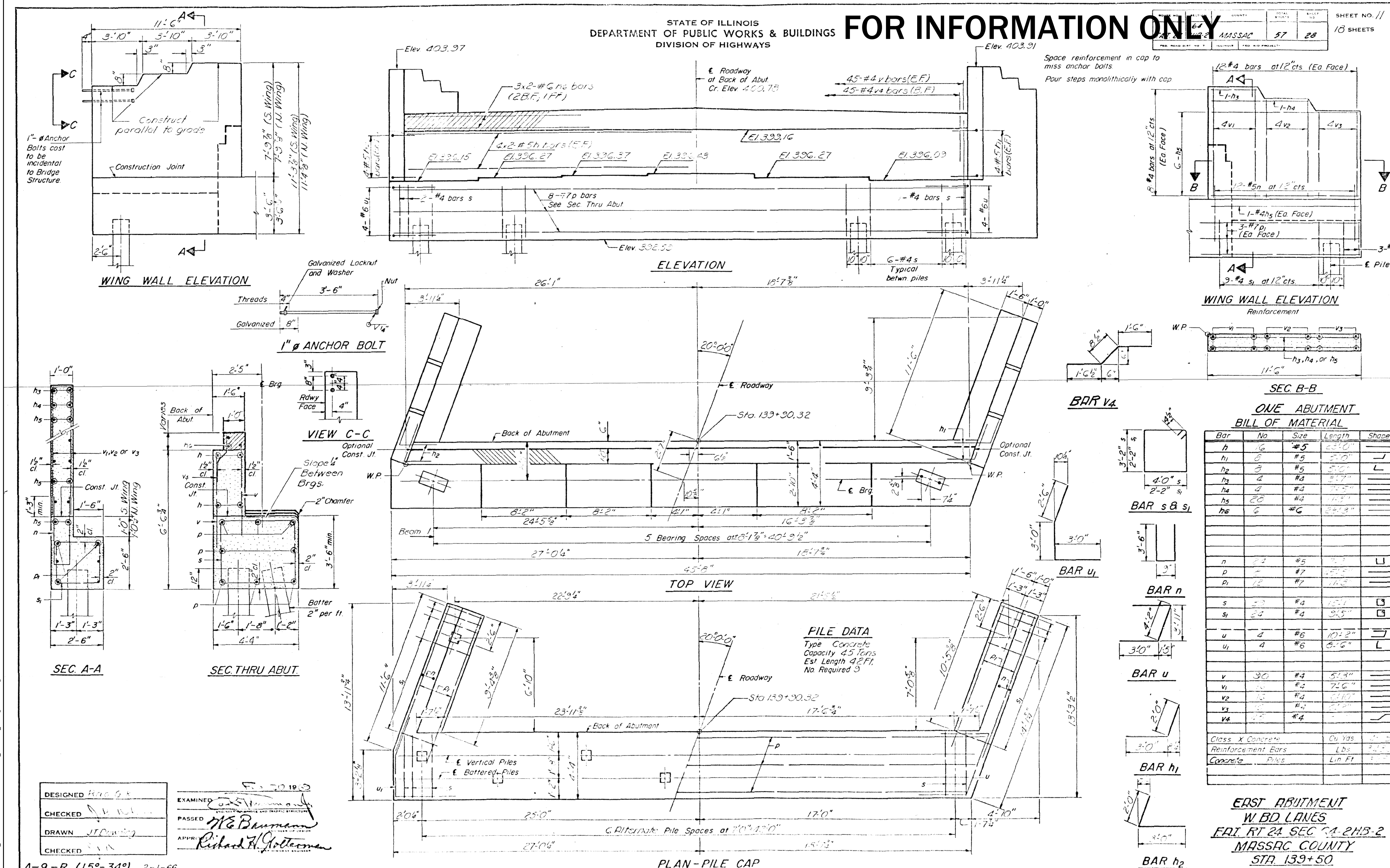
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS



ONE ABUTMENT
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h	16	#5	23'-0"	
h1	8	#5	5'-0"	
h2	8	#5	5'-0"	
h3	4	#4	3'-7"	
h4	4	#4	7'-5"	
h5	28	#4	[illegible]	
h6	6	#6	23'-3"	
n	24	#5	[illegible]	
p	[illegible]	#7	45'-5"	
p1	12	#7	11'-3"	
s	[illegible]	#4	[illegible]	
s1	24	#4	9'-5"	
u	4	#6	10'-2"	
u1	4	#6	6'-6"	
v	90	#4	5'-3"	
v1	16	#4	7'-6"	
v2	16	#4	6'-10"	
v3	[illegible]	#4	[illegible]	
v4	45	#4	[illegible]	
Class X Concrete			Cu. Yds.	[illegible]
Reinforcement Bars			Lbs.	[illegible]
Concrete Piles			Lin. Ft.	[illegible]

EAST ABUTMENT
W. BD. LANES
F.A.I. RT. 24 SEC. 64-2HB-2
MASSAC COUNTY
STA. 139+50

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING PLANS
STRUCTURE NO. 064-0014 (W.B.) & 064-0015 (E.B.)
SHEET 18 OF 19 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
24	BRIDGE REPAIR 2021-1	MASSAC	263	97

CONTRACT NO. 78606
ILLINOIS | FED. AID PROJECT

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

PROJECT NO.	SEC. NO.	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. RTE. 24	64-1 RB (-1, 1B)	MASSAC	66	38

SHEET NO. 11
12 SHEETS

BORING 1-S

LOCATION OF STRUCTURE:

T14S, R4E
NW ¼, SEC of SECTION 26

Boring No. 1-S
Station 201+00
Offset 52 FEET RIGHT CENTERLINE MEDIAN

Elevation	N	Qu t/s.f.	w (%)
Ground Surface 341.6 0			
MEDIUM LIGHT BROWN TO DARK BROWN SILTY CLAY LOAM A-4(8)			
336.1 -5			
MEDIUM MOIST ORGANIC BROWN MOTTLED GREY SILTY CLAY A-6(9-10)	6	0.4B	24
	7	0.7B	23
331.1 -10			
VERY STIFF MOIST ORGANIC BROWN MOTTLED GREY CLAY TO CLAY LOAM A-7-6(14)	14	2.7B	20
328.6			
STIFF MOIST BROWN MOTTLED GREY CLAY LOAM A-6(9-10)	10	1.4B	22
326.1 -15			
MEDIUM VERY MOIST BROWN MOTTLED GRAY SANDY CLAY LOAM TO CLAY LOAM A-2-4(0)	7	0.5S	22
323.6			
SOFT WET GREY SANDY CLAY LOAM A-2-4(0-3)	2	0.1B	26
321.1 -20			
MEDIUM WET GRAY SANDY CLAY LOAM TO SAND LOAM A-2-4(0-3)	2	0.5B	28
LOOSE WET GREY FINE TO COARSE GRAINED SAND	6	-	25
316.1 -25			
MEDIUM TO DENSE WET GRY FINE GRAINED SAND WITH SOME CLAY SEAMS	12	-	-
	12	-	-
-30			
	12	-	-
308.6			
MEDIUM WET GREY FINE TO COARSE GRAINED SAND	19	-	-
-35			
	23	-	-
-40	32	-	-

BORING 1-S (CONTINUED)

Surface Water El. —
Groundwater El. at Completion 336.5
After — Hours

Elevation	N	Qu t/s.f.	w (%)
301.6 40			
MEDIUM WET GREY COARSE GRAINED SAND AND GRAVEL	24	-	-
	22	-	-
-45			
	14	-	-
	19	-	-
-50			
	19	-	-
	25	-	-
-55			
285.1	18	-	-
BOTTOM OF HOLE=56.5 FEET			
DURING DRILLING OPERATIONS IT APPEARED THAT FREE WATER WAS ENCOUNTERED AT 19.0 FEET			
WASHING PROCEDURE USED BELOW 24.0 FEET -60			

BORING 2-S

Boring No. 2-S
Station 202+00
Offset 52 FEET RIGHT CENTERLINE MEDIAN

Elevation	N	Qu t/s.f.	w (%)
Ground Surface 341.7 0			
MEDIUM DARK GREY MOTTLED BROWN SILTY CLAY LOAM TO SILTY CLAY A-4(8)			
-5			
334.2	9	0.3B	17
STIFF TO MEDIUM MOIST GREY MOTTLED BROWN SILTY CLAY A-6(10)	9	1.1S	21
-10			
308.6			
MEDIUM WET GREY FINE TO COARSE GRAINED SAND	19	-	-
-35			
	23	-	-
-40	32	-	-

BORING 2-S (CONTINUED)

Surface Water El. —
Groundwater El. at Completion 335.2
After 24 Hours 336.7

Elevation	N	Qu t/s.f.	w (%)
329.2			
VERY STIFF MOIST BROWN MOTTLED GREY CLAY A-7-6(14)	9	2.0S	24
326.7 -15			
STIFF MOIST ORGANIC BROWN MOTTLED GREY CLAY TO CLAY LOAM A-6(12)	7	1.3B	25
	7	1.4B	24
321.7 -20			
STIFF VERY MOIST BROWN MOTTLED GREY SILTY CLAY A-6(10)	6	1.4S	
MEDIUM VERY MOIST GREY STREAKED OLIVE SILTY CLAY A-6(10)	4	0.6B	24
316.7 -25			
MEDIUM VERY MOIST GREY CLAY LOAM A-4(8)	6	0.7B	23
314.2			
MEDIUM TO LOOSE WET GREY FINE GRAINED SAND	7	-	-
-30			
	8	-	-
	20	-	-
-35			
	14	-	-
	19	-	-
-40			
MEDIUM TO LOOSE WET GREY FINE GRAINED SAND	22	-	-
	8	-	-
296.7 -45			
MEDIUM TO LOOSE WET GREY COARSE GRAINED SAND	21	-	-
	15	-	-
-50			
	9	-	-
289.7			
MEDIUM WET GREY COARSE GRAINED SAND WITH COAL MIXED	23	-	-
286.7 -55			
MEDIUM WET GREY COARSE GRAINED SAND	25	-	-
284.2			
VERY DENSE WET GREY COARSE GRAINED SAND	52	-	-
-60			
280.7	72	-	-
BOTTOM OF HOLE=61.0 FEET			

DURING DRILLING OPERATIONS, IT APPEARED THAT FREE WATER WAS ENCOUNTERED AT 17. FEET

WASHING PROCEDURE USED BELOW 26.0 FEET

BORING 3-S

Boring No. 3-S
Station 201+62
Offset 52 FEET LEFT MEDIAN

Elevation	N	Qu t/s.f.	w (%)
Ground Surface 342.4 0			
MEDIUM DAMP GREY MOTTLED BROWN SILTY CLAY LOAM TO SILT LOAM A-6(9)			
-5			
	11	0.4B	13
334.9			
MEDIUM MOIST ORGANIC GREY MOTTLED BROWN SILTY CLAY TO CLAY A-6(11-12)	6	0.6B	22
332.4 -10			
STIFF MOIST BROWN MOTTLED GREY SILTY CLAY A-6(14-15)	5	1.5S	25
329.9			
MEDIUM VERY MOIST GREY MOTTLED BROWN SILTY CLAY A-6(10-11)	5	0.5B	28
327.4 -15			
MEDIUM TO STIFF MOIST ORGANIC BROWN CLAY TO CLAY LOAM A6(10-11)	9	0.7B	25
	5	1.3B	25
322.4 -20			
MEDIUM VERY MOIST GREY SILTY CLAY A-6(11)	3	0.7B	26
MEDIUM VERY MOIST GREY LOAM A-4(4)	4	0.7B	26
317.4 -25			
MEDIUM VERY MOIST GREY SILTY CLAY LOAM A-4(8)	2	0.4B	27
314.9			
LOOSE TO MEDIUM WET GREY FINE GRAINED SAND	4	-	25
-30			
	17	-	-
	21	-	-
307.4 -35			
MEDIUM VERY MOIST GREY CLAY A-6(10) WITH SOME SAND SEAMS	13	0.6B	-
304.9			
MEDIUM WET GREY COARSE GRAINED SAND	12	-	-
302.4 -40			
LOOSE WET GREY FINE TO COARSE GRAINED SAND	8	-	-
299.9			
MEDIUM WET GREY COARSE GRAINED SAND	21	-	-
297.4 -45			
MEDIUM WET GREY COARSE SAND AND GRAVEL	13	-	-
	16	-	-
-50			
	25	-	-

BORING 3-S (CONTINUED)

Surface Water El. —
Groundwater El. at Completion 337.9
After 24 Hours 337.4

Elevation	N	Qu t/s.f.	w (%)
289.9			
DENSE WET GREY COARSE GRAINED SAND	32	-	-
-55			
	39	-	-
	31	-	-
-60			
281.4	35	-	-
BOTTOM OF HOLE=61.0 FEET			

DURING DRILLING OPERATIONS IT APPEARED THAT FREE WATER WAS ENCOUNTERED AT 27.5 FEET.

WASHING PROCEDURE WAS USED BELOW 46.0 FEET

BORING 4-S

Boring No. 4-S
Station 200+50
Offset 74 FEET LEFT CENTERLINE MEDIAN

Elevation	N	Qu t/s.f.	w (%)
Ground Surface 342.5 0			
MEDIUM MOIST BROWN MOTTLED GREY SILTY CLAY A-6(10)			
-5			
	3	0.4B	18
335.0			
MEDIUM MOIST GREY MOTTLED BROWN SILTY CLAY TO CLAY LOAM A-6(10)	6	0.6B	22
332.5 -10			
STIFF MOIST GREY MOTTLED BROWN CLAY A7-6(14)	9	1.2B	22
330.0			
STIFF MOIST BROWN MOTTLED GREY CLAY A7-6(13-14)	8	1.0S	22
-15			
	5	1.2S	21
325.0			
SOFT WET GRLY CLAY A-6(10-11)	2	0.1B	53
322.5 -20			
SOFT WET GREY SANDY LOAM A-4(0-3)	3	0.1B	27
320.0			
	6	-	-
-25			
	13	-	-
	13	-	-

BORING 4-S (CONTINUED)

Surface Water El. NONE
Groundwater El. at Completion 337.5
After 24 Hours 336.5

Elevation	N	Qu t/s.f.	w (%)
-30			
LOOSE TO MEDIUM WET FINE GRAINED GREY SAND	9	-	-
	16	-	-
-35			
	15	-	-
	11	-	-
-40			
	20	-	-
300.0			
MEDIUM WET COARSE GRAINED GREY SAND	11	-	-
MEDIUM WET COARSE GRAINED GREY SAND	23	-	-
-45			
	28	-	-
292.5 -50			
DENSE WET COARSE GRAINED GREY SAND SOME GRAVEL	22	-	-
	47	-	-
-55			
	40	-	-
284.0	39	-	-
BOTTOM OF HOLE=58.5 FEET			
WASHING PROCEDURE WAS USED IN DRILLING BELOW 22.5 FEET -60			
DURING DRILLING OPERATIONS IT APPEARED THAT FREE WATER WAS ENCOUNTERED AT 22.5 FEET			

BORING 2-S

Boring No. 2-S
Station 202+00
Offset 52 FEET RIGHT CENTERLINE MEDIAN

Elevation	N	Qu t/s.f.	w (%)
Ground Surface 341.7 0			
MEDIUM DARK GREY MOTTLED BROWN SILTY CLAY LOAM TO SILTY CLAY A-4(8)			
-5			
334.2	9	0.3B	17
STIFF TO MEDIUM MOIST GREY MOTTLED BROWN SILTY CLAY A-6(10)	9	1.1S	21
-10			
308.6			
MEDIUM WET GREY FINE TO COARSE GRAINED SAND	19	-	-
-35			
	23	-	-
-40	32	-	-

N- Standard Penetration Test- Blows per foot to drive 2" OD Split Spoon Sampler 12" with 140# hammer falling 30"

Qu-Unconfined Compressive Strength-t/sf
w- Water Content- percentage of oven dry weight- %

Type failure
B-Bulge Failure
S-Shear Failure
E-Estimated Value
P-Penetrometer

DESIGNED	S.F.M.
CHECKED	W. M. C
DRAWN	J.R. Boice
CHECKED	

EXAMINED Sept 19 1968
PASSED W E Baumann
APPROVED V.E. Stoff

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BORINGS
F.A.I. RT. 24 SEC. 64-1B
MASSAC COUNTY
STA. 201+30

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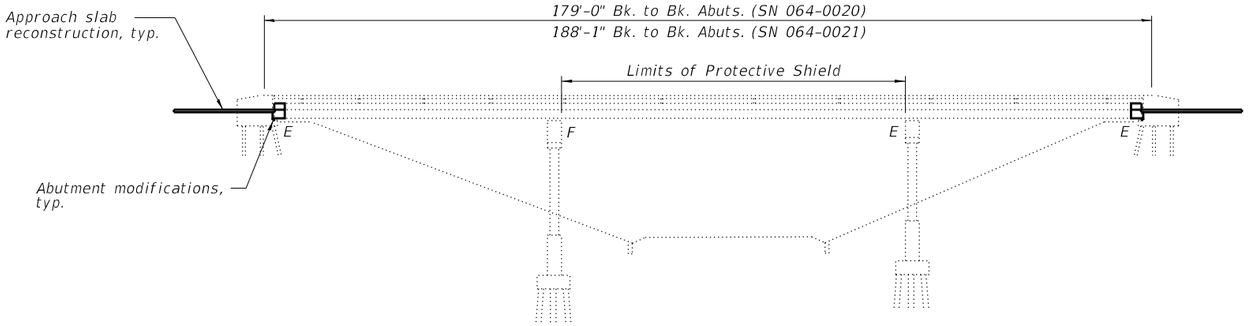
	CHECKED - AS	REVISED -		
PLOT SCALE = N/A	DRAWN - GLD/RAH	REVISED -		SHEET 19 OF 19 SHEETS
PLOT DATE = 11/17/2020 - 8:38:08 PM	CHECKED - JTH	REVISED -		

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
24	BRIDGE REPAIR 2021-1	MASSAC	263	98
		CONTRACT NO. 78606		
	ILLINOIS FED. AID PROJECT			



ELEVATION

SCOPE OF WORK

1. Remove existing 2¼" concrete wearing surface.

2. Perform deck and concrete parapet repairs as shown.

3. Replace bearings at abutments.

4. Remove and replace bridge approach slabs and pavement connectors including removal of buried pile bent caps.

5. Clean and paint all steel beams ends at each abutment as preparation for concrete encasement.

6. Convert existing stub abutments to semi-integral abutments.

7. Repair slopewalls.

8. Install new 3¼" latex concrete wearing surface and perform diamond grinding, longitudinal bridge deck grooving and apply protective coat.

Up to ¼ inch may be ground off the bridge deck and the bridge approach slabs.

INDEX OF SHEETS

1 – General Plan and Elevation
2 – General Data
3 – Stage Construction Details
4 – Deck Patching Plan
5 – Temporary Concrete Barrier for Stage Construction
6 – Superstructure – SN 064-0020
7 – Superstructure – SN 064-0021
8 – Diaphragm Details – SN 064-0020
9 – Diaphragm Details – SN 064-0021
10-11 – Approach Slab Details
12 – Abutment Removal
13 – Abutment Details – SN 064-0020
14 – Abutment Details – SN 064-0021
15 – Bearing Details
16 – Bar Splicer Assembly and Mechanical Splicer details
17-27 – Existing Plans – SN 064-0020
28-38 – Existing Plans – SN 064-0021

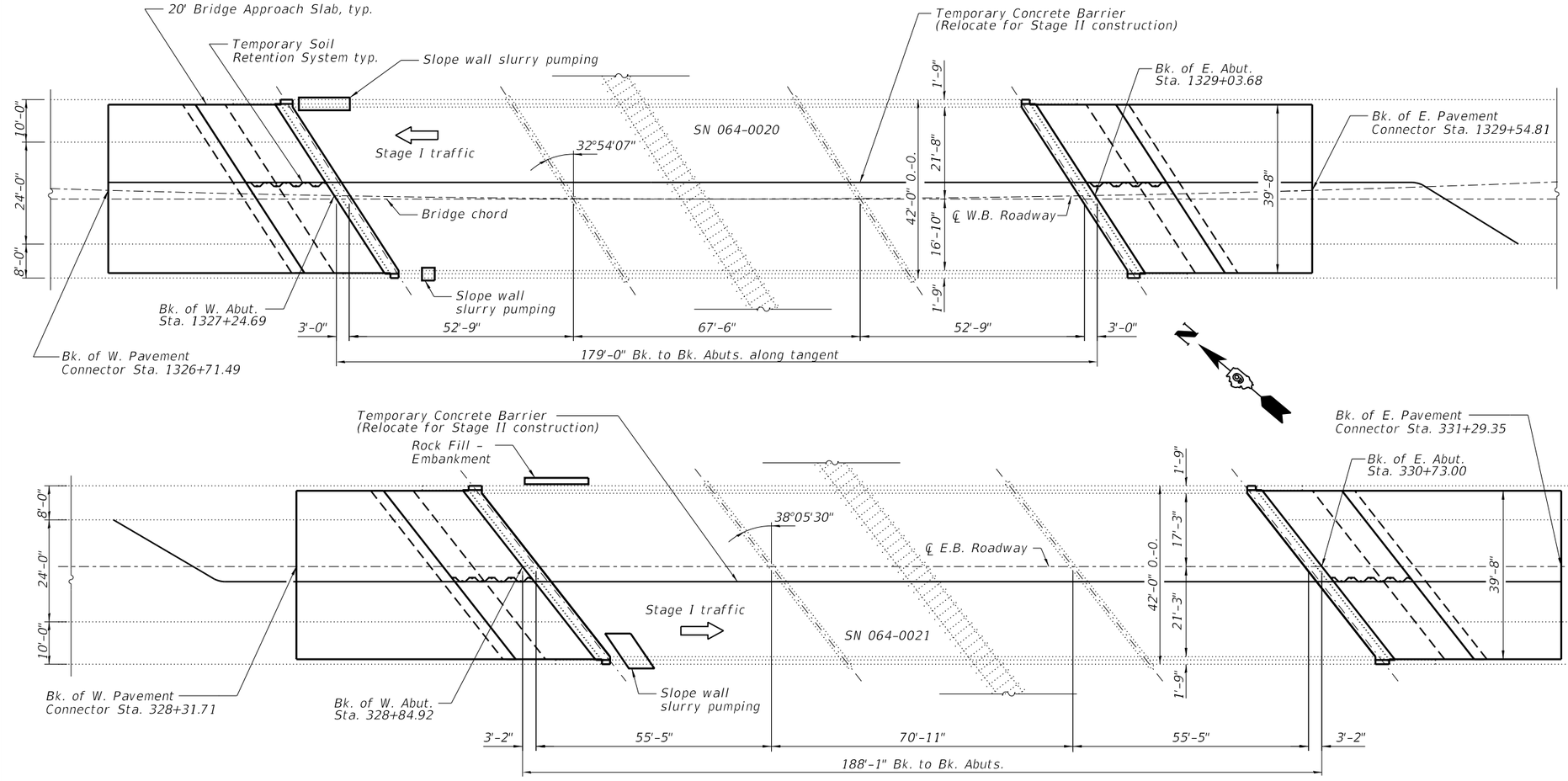
DESIGN STRESSES

FIELD UNITS

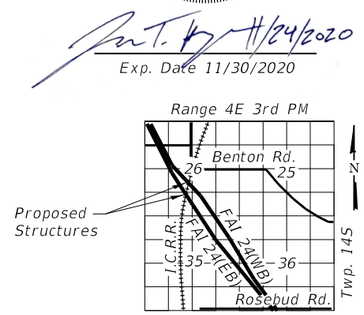
New Construction
f'c = 4,000 psi
fy = 60,000 psi (Reinforcement)

Existing Structure, 2001 Rehabilitation
f'c = 3,500 psi
fy = 60,000 psi (Reinforcement)

Existing Structure, 1971
fc = 1,400 psi
fs = 20,000 psi (Reinforcement)



PLAN



LOCATION SKETCH

JOSEPH T. HEGER
081-008156
LICENSED STRUCTURAL ENGINEER
STATE OF ILLINOIS
11/24/2020
Exp. Date 11/30/2020

GENERAL PLAN AND ELEVATION
I-24 OVER I.C. RAILROAD
F.A.I. 24, SECTION BRIDGE REPAIR 2021-1
MASSAC COUNTY
STA. 1328+14.19 & STA. 329+78.96
SN 064-0020 & 064-0021

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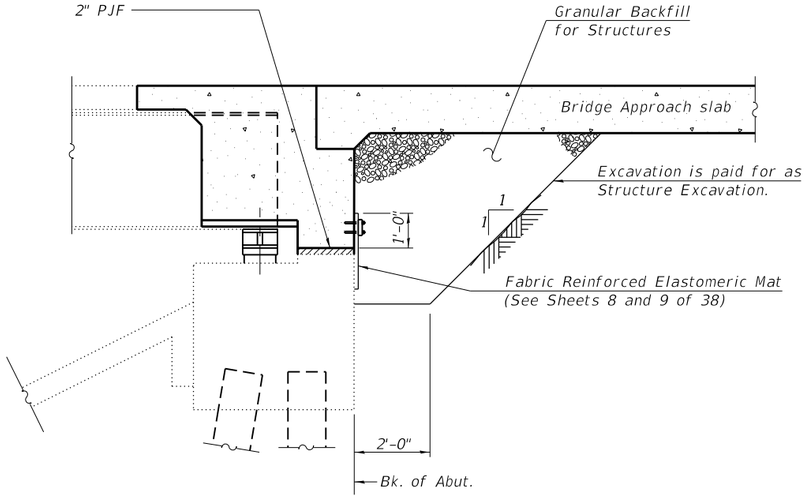
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

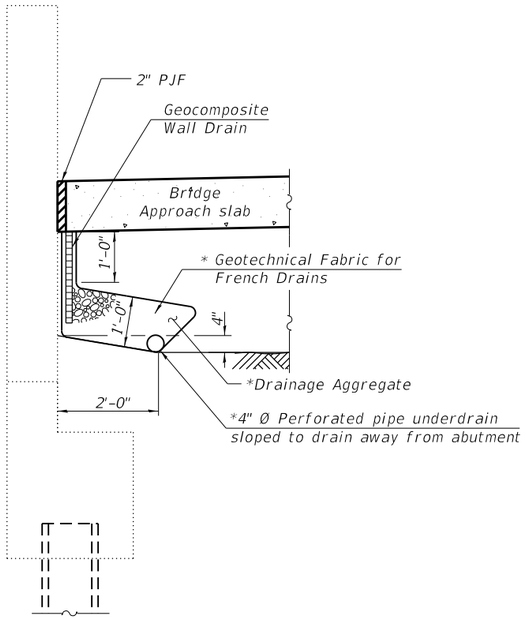
GENERAL PLAN AND ELEVATION
STRUCTURE NO. 064-0020 (W.B.) & 064-0021 (E.B.)
SHEET 1 OF 38 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
24	BRIDGE REPAIR 2021-1	MASSAC	263	99
		CONTRACT NO. 78606		
	ILLINOIS	FED. AID PROJECT		



SECTION THRU SEMI-INTEGRAL ABUTMENT

(Horiz. dim. @ Rt. L's)

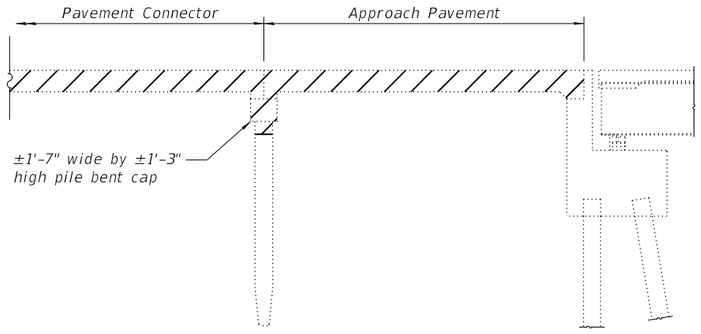


SECTION THRU ABUTMENT WINGWALL

(Horiz. dim. @ Rt. L's)

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

Note:
All drainage system components shall extend 2'-0" from the end of each wingwall except an outlet pipe shall wrap around and extend until intersecting with the side slope. The pipes shall drain into concrete headwalls. (See Article 601.05 of the Standard Specifications and Highway Standard 601101).



APPROACH SLAB REMOVAL

Existing approach slab and pavement connector to be removed. Buried pile bent cap to be completely removed. Piles shall be removed to 2' below finished grade. Approach slab and pavement connector removal shall be paid for as Approach Slab Removal. Pile bent cap removal shall be paid for as Concrete Removal. Pile removal shall be included in the cost of Concrete Removal.

SLOPE WALL REPAIRS

Cracks and voids exist at the northwest and northeast corners of the west slope wall of SN 064-0020.

Cracks and voids exist at the northwest corner of the west slope wall of SN 064-0021. Embankment has eroded along the north edge of the west slope wall.

The voided areas shall be filled with Slope Wall Slurry Pumping as directed by the Engineer. Approximate quantities have been included. Contractor shall be paid for actual quantity of slurry placed.

Small areas of slope wall may need to be removed to access the voids in the slope walls. Any removals shall be repaired. Cost of removal and repairs shall be included with Slope Wall Slurry Pumping.

An area along the north edge of the west slope wall of SN 064-0021 has eroded. Rock Fill - Embankment shall be placed here to prevent further erosion. Approximate quantity is 1.3 cu. yd.

TOTAL BILL OF MATERIAL

ITEM	UNIT	SN 064-0020	SN 064-0021	TOTAL
Paved Shoulder Removal	Sq. Yd.	213	224	437
Concrete Removal	Cu. Yd.	37.1	40.1	77.2
Protective Shield	Sq. Yd.	315	331	646
Structure Excavation	Cu. Yd.	55	70	125
Concrete Structures	Cu. Yd.	32.3	33.8	66.1
Concrete Superstructure	Cu. Yd.	49.8	55.6	105.4
Protective Coat	Sq. Yd.	1087	1132	2219
Concrete Superstructure (Approach Slab)	Cu. Yd.	74.7	74.7	149.4
Furnishing and Erecting Structural Steel	Pound	2630	2630	5260
Reinforcement Bars, Epoxy Coated	Pound	42290	44240	86530
Bar Splicers	Each	298	298	596
Elastomeric Bearing Assembly, Type 1	Each	12	12	24
Anchor Bolts, 1"	Each	48	48	96
Temporary Soil Retention System	Sq. Ft.	46	53	99
Granular Backfill for Structures	Cu. Yd.	55	70	125
Geocomposite Wall Drain	Sq. Yd.	9	9	18
Concrete Headwalls for Pipe Drains	Each	4	4	8
Temporary Concrete Barrier	Foot	444	458	902
Relocate Temporary Concrete Barrier	Foot	444	458	902
Impact Attenuators, Temporary (Non-redirective), Test Level 3	Each	1	1	2
Impact Attenuators, Relocate (Non-redirective), Test Level 3	Each	1	1	2
Raised Reflective Pavement Marker	Each	3	3	6
Raised Reflective Pavement Marker (Bridge)	Each	1	1	2
Barrier Wall Reflectors, Type B	Each	11	11	28
Raised Reflective Pavement Marker Removal	Each	4	4	8
Bridge Approach Pavement Connector (Special)	Sq. Yd.	294	318	612
Bridge Deck Grooving (Longitudinal)	Sq. Yd.	579	603	1182
Pinning Temporary Concrete Barrier	Each	10	10	20
Raised Reflective Pavement Marker, Reflector Removal	Each	4	4	8
Jack and Remove Existing Bearings	Each	12	12	22
Structural Steel Removal	Pound	3440	3660	7100
Approach Slab Removal	Sq. Yd.	213	213	426
Containment and Disposal of Lead Paint Cleaning Residues	L. Sum	0.090	0.091	0.181
Cleaning and Painting Steel Bridge No. 1	L. Sum	1	0	1
Cleaning and Painting Steel Bridge No. 2	L. Sum	0	1	1
Bridge Deck Scarification 3"	Sq. Yd.	706	741	1447
Structural Repair of Concrete (Depth Equal to or Less Than 5 Inches)	Sq. Ft.	2	0	2
Deck Slab Repair (Full Depth, Type II)	Sq. Yd.	3	1	4
Diamond Grinding (Bridge Section)	Sq. Yd.	1217	1279	2496
Pipe Underdrains for Structures 4"	Foot	71	70	141
Rock Fill - Embankment	Cu. Yd.	0.0	1.3	1.3
Slope Wall Slurry Pumping	Cu. Yd.	1.0	0.3	1.3
Bridge Deck Latex Concrete Overlay, 3¼ Inches	Sq. Yd.	706	741	1447

GENERAL NOTES

1. Reinforcement bars designated (E) shall be epoxy coated.
2. Prior to pouring 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 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 the existing concrete.
3. Plan dimensions and details are relative to existing plans and 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.
4. The existing structural steel coating contains lead. The Contractor shall take appropriate precautions to deal with the presence of lead on this project.
5. Cleaning and painting of the existing structural steel shall be as specified in the special provision for "Cleaning and Painting Existing Steel Structures". All beams and other structural steel from the beam end to 1'-6" (measured along the beam) beyond the face of the concrete diaphragm shall be cleaned per Near White Blast Cleaning (SSPC- SP10). The exterior surfaces and bottom of the bottom flange of the fascia beams shall be cleaned per Commercial Grade Power Tool Cleaning (SSPC- SP15).
6. The designated areas cleaned per Near White Blast Cleaning (SSPC- SP10) and per Commercial Grade Power Tool Cleaning (SSPC- SP15) shall be painted according to the requirements of the Organic Zinc-Rich Primer/Epoxy Intermediate Coat/Urethane Topcoat system. The color of the final finish coat for all interior steel surfaces shall be Gray, Munsell No 5B 7/1. The color of the final finish coat for the exterior and bottom flange of the fascia beams shall be Interstate Green, Munsell No 7.5G 4/8.
7. SSPC QP1 and SSPC QP2 Certification is required for this Contract.
8. To retain the temporary concrete barrier for Stage II Traffic, the Contractor shall have the option of using either 2 (#5) bar splicers or 2 cast in place inserts at 6" centers at the mid-depth of the approach slab and pavement connector. 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 retainer plate and 2 ½" diameter bolt and washers every 6' as shown on Detail II on Standard R-27 (Sheet 5 of 38) from Sta. 1326+71.49 to Sta. 1327+24.69 and Sta. 1329+03.68 to Sta. 1329+54.81 for SN 064-0020 and Sta. 328+31.71 to Sta. 328+84.92 and Sta. 330+73.00 to Sta. 331+29.35 for SN 064-0021 for Stage II traffic. This work shall be included in the cost of Temporary Concrete Barrier, no additional compensation shall be provided.
9. All new structural steel and bearing assemblies shall be hot dip galvanized. See Special Provision for "Hot Dip Galvanizing for Structural Steel".
10. Existing structural steel that will be in contact with new structural steel shall be cleaned and painted prior to erection as required by the Special Provision for "Cleaning and Painting Contact Surface Areas of Existing Steel Structures".