1/28/2010

5-14-10 Special Letting, Item 090

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
172	1-(1,2,3,4,5) RS	ADAMS	165	1
FED. ROAD DIST. NO.	ILLINOIS	CONTRACT NO. 72A09		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

FOR INDEX OF SHEETS AND HIGHWAY STANDARDS, SEE SHEET NO. 2

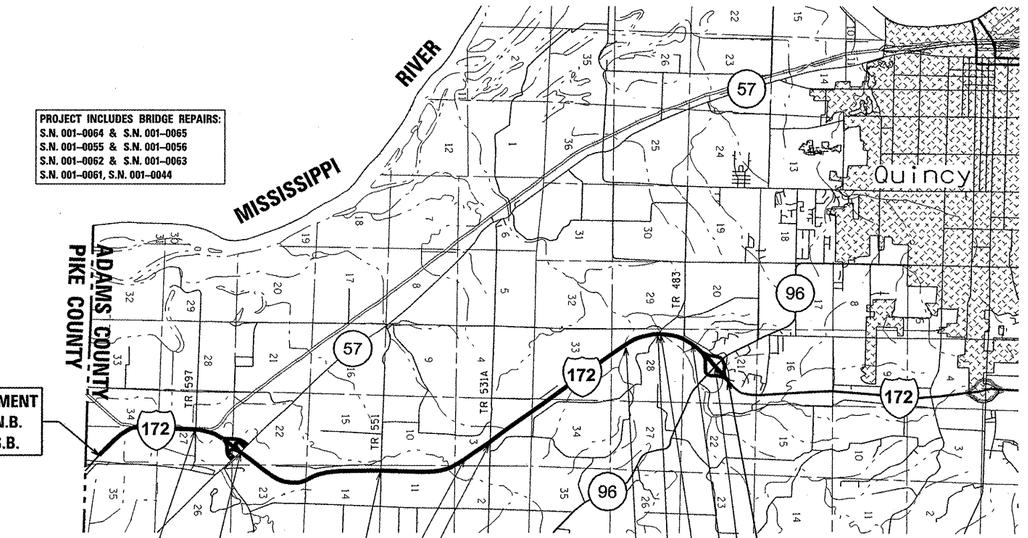
PROPOSED
HIGHWAY PLANS

FAI ROUTE 172 (I–172)
SECTION 1–(1,2,3,4,5) RS

ROADWAY RESURFACING
ADAMS COUNTY
C–96–130–10

DESIGN DESIGNATION:
FAI 172
FEDERAL AID INTERSTATE
ADT = 9547 (2027)
%SU = 13
%MU = 14

PROJECT INCLUDES BRIDGE REPAIRS:
S.N. 001–0064 & S.N. 001–0065
S.N. 001–0055 & S.N. 001–0056
S.N. 001–0062 & S.N. 001–0063
S.N. 001–0061, S.N. 001–0044



BEGIN IMPROVEMENT
STA 76+00.00 N.B.
STA 16+40.03 S.B.

END IMPROVEMENT
STA 79+00.00 N.B.
STA 75+99.00 S.B.

S.N. 001–0067
TR 597 OVER FAI 172

S.N. 001–0065
N.B. FAI 172 OVER IL 57
S.N. 001–0064
S.B. FAI 172 OVER IL 57

S.N. 001–0058
TR 551 OVER FAI 172

STATION EQUATION:
STA 285+95.95 (BK) =
STA 0+00.00 (AH)

S.N. 001–0060
TR 531A OVER FAI 172

S.N. 001–0055
N.B. FAI 172 OVER BURTON CREEK
S.N. 001–0056
S.B. FAI 172 OVER BURTON CREEK

S.N. 001–0061
TR 483 OVER FAI 172

S.N. 001–0063
N.B. FAI 172 OVER MILL CREEK
S.N. 001–0062
S.B. FAI 172 OVER MILL CREEK

STATION EQUATION:
STA 197+82.00 (BK) =
STA 30+87.58 (AH)

S.N. 001–0044
IL 96 OVER FAI 172

LOCATION MAP

GROSS LENGTH OF PROJECT = 9.706 MILES
NET LENGTH OF PROJECT = 9.706 MILES
NET LENGTH OF IL 57 = 0.553 MILES
NET LENGTH OF IL 96 = 0.484 MILES

100' 200' 300' — 1"= 100'
0 10' 20' 30' — 1"= 10'
0 50' 100' — 1"= 50'
0 50' 100' — 1"= 40'
0 50' 100' — 1"= 30'
0 50' 100' — 1"= 20'

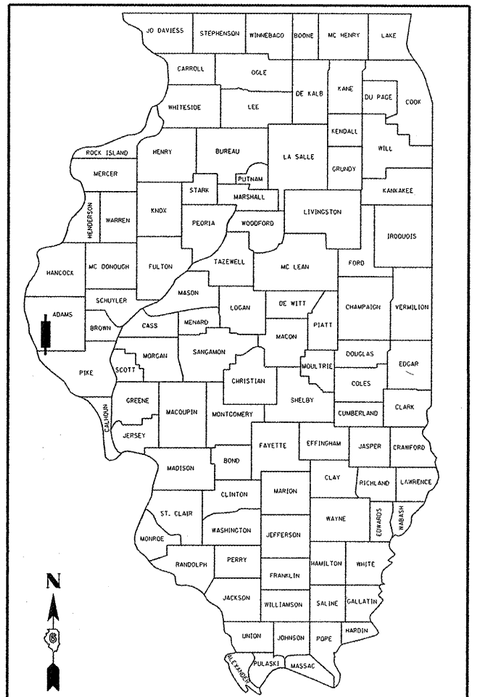
FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

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

PROJECT MANAGER: VICTOR YOUNG (217) 557–7897
PROJECT ENGINEER: JOHN NEGANGARD (217) 782–6990

CONTRACT NO. 72A09

D–96–537–05



LOCATION OF SECTION INDICATED THUS: –

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

SUBMITTED February 3 20 10
Roger Z Driskell
DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER
March 19, 20 10
Scott E. Stitt, P.E.
ENGINEER OF DESIGN AND ENVIRONMENT
acting
March 19, 20 10
Christine M. Reed
DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

ERIC B. BARNES
062-052141
LICENSED PROFESSIONAL ENGINEER
Eric B. Barnes 1-28-10
ERIC B. BARNES DATE
REGISTERED PROFESSIONAL ENGINEER
STATE OF ILLINOIS NO. 062-052141
LICENSE EXPIRES NOVEMBER 30, 2011

PLANS PREPARED BY:

KLINGNER & ASSOCIATES, P.C.
Engineers • Architects • Surveyors
■ 616 North 24th Street, Quincy, IL — Ph (217) 223-3678 - Fax (217) 223-3683
□ 4581 Paris Gravel Road, Hannibal, MO — Ph (573) 221-8028 - Fax (573) 221-8012
□ 618 N. 4th Street, Suite 108, Burlington, IA — Ph (319) 753-1636 - Fax (319) 752-3085
□ 69 North Prairie Street, Galesburg, IL — Ph (309) 342-4042 - Fax (309) 341-3281
Internet Address: www.klingner.com
STATE OF ILLINOIS DESIGN FIRM # 1842738

PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

P:\09files\090044\Work Order 5 (PE 2 - I-72)\CADD_Sheets\001-D672A09-sht-cover.dgn

INDEX OF SHEETS

STANDARDS

STANDARD NO.	DESCRIPTION
000001-05	STANDARD SYMBOLS, ABBREVIATIONS, AND PATTERNS
280001-05	TEMPORARY EROSION CONTROL SYSTEMS
420001-07	PAVEMENT JOINTS
442001-04	CLASS A PATCHES
442101-07	CLASS B PATCHES
442201-03	CLASS C AND D PATCHES
542301-02	PRECAST REINFORCED CONCRETE FLARED END SECTION
542401-01	METAL END SECTION FOR PIPE CULVERTS
542546-01	FLUSH INLET BOX FOR MEDIAN
604101-01	MEDIAN INLET FOR 24" REINFORCED CONCRETE PIPE
606001-04	CONCRETE CURB TYPE B AND COMBINATION CURB AND GUTTER
606301-04	PC CONCRETE ISLANDS AND MEDIANS
630001-08	STEEL PLATE BEAM GUARDRAIL
630301-05	SHOULDER WIDENING FOR TYPE 1 (SPECIAL) GUARDRAIL TERMINALS
631011-06	TRAFFIC BARRIER TERMINAL, TYPE 2
631026-05	TRAFFIC BARRIER TERMINAL, TYPE 5
631031-08	TRAFFIC BARRIER TERMINAL, TYPE 6
635001-01	DELINEATORS
635006-03	REFLECTOR AND TERMINAL MARKER PLACEMENT
635011-02	REFLECTOR MARKER AND MOUNTING DETAILS
642001-01	SHOULDER RUMBLE STRIPS
701001-02	OFF-RD OPERATIONS, 2L, 2W, MORE THAN 15' AWAY
701006-03	OFF-RD OPERATIONS, 2L, 2W, 15' TO 24" FROM PAVEMENT EDGE
701011-02	OFF-RD MOVING OPERATIONS, 2L, 2W, DAY ONLY

STANDARDS

STANDARD NO.	DESCRIPTION
701101-02	OFF-RD OPERATIONS, MULTILANE, 15' TO 24" FROM PAVEMENT EDGE
701106-02	OFF-RD OPERATIONS, MULTILANE, MORE THAN 15' AWAY
701201-03	LANE CLOSURE, 2L, 2W, DAY ONLY, FOR SPEEDS > 45 MPH
701301-03	LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
701306-02	LANE CLOSURE, 2L, 2W, SLOW MOVING OPERATIONS DAY ONLY, FOR SPEEDS > 45 MPH
701311-03	LANE CLOSURE 2L, 2W, MOVING OPERATIONS DAY ONLY
701326-03	LANE CLOSURE, 2L, 2W, PAVEMENT WIDENING, FOR SPEEDS > 45 MPH
701400-04	APPROACH TO LANE CLOSURE, FREEWAY / EXPRESSWAY
701401-05	LANE CLOSURE, FREEWAY / EXPRESSWAY
701402-07	LANE CLOSURE, FREEWAY / EXPRESSWAY, WITH BARRIER
701406-05	LANE CLOSURE, FREEWAY / EXPRESSWAY, DAY OPERATIONS ONLY
701411-06	LANE CLOSURE, MULTILANE, AT ENTRANCE OR EXIT RAMP, FOR SPEEDS > 45 MPH
701426-03	LANE CLOSURE, MULTILANE, INTERMITTENT OR MOVING OPERATIONS, FOR SPEEDS > 45 MPH
701451-01	RAMP CLOSURE FREEWAY / EXPRESSWAY
701456	PARTIAL EXIT RAMP CLOSURE FREEWAY / EXPRESSWAY
701901-01	TRAFFIC CONTROL DEVICES
704001-06	TEMPORARY CONCRETE BARRIER
720001-01	SIGN PANEL MOUNTING DETAILS
720006-02	SIGN PANEL ERECTION DETAILS
720011-01	METAL POSTS FOR SIGNS, MARKERS & DELINEATORS
728001-01	TELESCOPING STEEL SIGN SUPPORT
729001-01	APPLICATIONS OF TYPES A & B METAL POSTS (FOR SIGNS & MARKERS)
780001-02	TYPICAL PAVEMENT MARKINGS
781001-03	TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS
B.L.R. 21-8	TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES FOR CONSTRUCTION ON RURAL LOCAL HIGHWAYS

GENERAL NOTES

1. ANY REFERENCE TO A STANDARD IN THESE PLANS SHALL BE INTERPRETED TO MEAN THE EDITION AS INDICATED BY THE SUB-NUMBER IN THE INDEX OF SHEETS OR THE COPY OF THE STANDARD INCLUDED IN THESE PLANS.

2. EXISTING RAISED REFLECTIVE PAVEMENT MARKERS SHALL BE REMOVED PRIOR TO HOT-MIX ASPHALT RESURFACING.

3. THE CONTRACTOR SHALL PROTECT AND CAREFULLY PRESERVE ALL PROPERTY MARKERS AND MONUMENTS UNTIL THE OWNER, AUTHORIZED AGENT, OR LAND SURVEYOR HAS WITNESSED OR OTHERWISE REFERENCED THEIR LOCATION. WHERE SECTION OR SUB-SECTION MONUMENTS ARE ENCOUNTERED, THE ENGINEER SHALL BE NOTIFIED BEFORE SUCH MONUMENTS ARE REMOVED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR HAVING AN AUTHORIZED SURVEYOR RE-ESTABLISH ANY SECTION OR SUB-SECTION MONUMENTS DESTROYED BY HIS OPERATIONS.

4. PRIOR TO RESURFACING ACTIVITIES, THE CONTRACTOR AND THE ENGINEER SHALL VERIFY AND DOCUMENT THE EXISTING MINIMUM VERTICAL CLEARANCE AT ALL OVERHEAD STRUCTURES. IF NECESSARY, THE ENGINEER WILL MAKE ADJUSTMENTS TO THE RESURFACING THICKNESS SHOWN IN THE PLANS. UPON COMPLETION OF THE RESURFACING, THE ENGINEER WILL MEASURE AND DOCUMENT THE MINIMUM VERTICAL CLEARANCE AT ALL OVERHEAD STRUCTURES. IF THE MINIMUM VERTICAL CLEARANCE IS LESS THAN 16'-0", THE CONTRACTOR SHALL REMOVE AND REPLACE THE HOT-MIX ASPHALT SURFACE COURSE AS DIRECTED BY THE ENGINEER. THE COST OF THIS WORK OR ANY INCONVENIENCE CAUSED BY COMPLYING WITH THIS REQUIREMENT WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE COST OF THE RESURFACING PAY ITEMS IN THIS CONTRACT.

5. A POLYMER MODIFIED EMULSIFIED ASHPALT PRIME SHALL BE REQUIRED FOR THE PRIMING OF I-172 MAINLINE PAVEMENT, RAMP PAVEMENT, IL 57 PAVEMENT, AND IL 96 PAVEMENT. THE AREA PRIMED SHALL BE LIMITED TO THAT WHICH WILL BE COVERED WITH HOT-MIX ASPHALT THAT SAME DAY.

6. THE CONTRACTOR SHALL MAINTAIN ACCESS CONTROL AT ALL TIMES DURING CONSTRUCTION.

7. ELEVATIONS ALONG THE RADII WHERE RAMPS ARE TO BE WIDENED SHALL BE DETERMINED IN THE FIELD BY THE ENGINEER.

8. ALL SIGNS AND DELINEATORS CONFLICTING WITH TRAFFIC CONTROL OR CONSTRUCTION SHALL BE REMOVED AND REPLACED BY THE CONTRACTOR AS DIRECTED BY THE ENGINEER. THIS WORK WILL BE INCLUDED WITH THE COST FOR TRAFFIC CONTROL ON THE PROJECT.

9. THE FOLLOWING MIXTURE REQUIREMENTS ARE APPLICABLE FOR THIS PROJECT.

LOCATION(S):							
MIXTURE USE(S):	POLYMER HMA SURF	POLYMER HMA BINDER	HMA BSE CSE	INCIDENTAL	HMA SHLD (LOWR LIFT)	HMA SHLD (UPR LIFT)	BSE CSE & D PATCH
AC/PG:	SBS PG 70-22	SBS PG 70-22	PG 64-22	PG 64-22	PG 58-22	PG 64-22	PG 64-22
DESIGN AIR VOIDS:	4.0% @ N DESIGN=70	4.0% N DESIGN=70	4.0% @ N DESIGN=50	4.0% @ N DESIGN=50	2.0% @ N DESIGN=30	4.0% @ N DESIGN=50	4.0% @ N DESIGN=70
MIXTURE COMPOSITION: (GRADATION MIXTURE)	IL 9.5 OR IL 12.5	IL 19.0	IL 19.0	IL 9.5 OR IL 12.5	BAM (OTHER)	IL 9.5	IL 19.0
FRICTION AGGREGATE	MIX D	N/A	N/A	MIX C	N/A	MIX C	N/A

GENERAL NOTES

10. ALL DISTURBED AREAS WITHIN THE RIGHT-OF-WAY SHALL BE SEEDED, FERTILIZED, AND MULCHED AS SHOWN IN THE PLANS AND AS DIRECTED BY THE ENGINEER.

11. IN ACCORDANCE WITH STATE OF ILLINOIS P.A. 86-0674, THE CONTRACTOR IS TO NOTIFY ALL UTILITY COMPANIES NOT MORE THAN 14 DAYS NOR LESS THAN 48 HOURS (EXCLUSIVE OF SATURDAYS, SUNDAYS, AND HOLIDAYS) IN ADVANCE OF THE START OF EXCAVATION OR DEMOLITION.

J.U.L.I.E. TELEPHONE NUMBER
1-800-892-0123

12. THE LOCATION OF BURIED AND ABOVE GROUND UTILITIES SHOWN ARE APPROXIMATE, AND ARE SHOWN FOR CONTRACTOR INFORMATIONAL USE ONLY, AND ARE NOT TO BE REFERENCED FOR CONSTRUCTION PURPOSES. THE IMPLIED PRESENCE OR ABSENCE OF UTILITIES IS NOT TO BE CONSTRUED BY THE OWNER, ENGINEER, CONTRACTOR, OR SUBCONTRACTORS TO BE AN ACCURATE AND COMPLETE REPRESENTATION OF UTILITIES THAT MAY OR MAY NOT EXIST ON THE CONSTRUCTION SITE. BURIED AND ABOVE GROUND UTILITY LOCATIONS, IDENTIFICATION, AND MARKING ARE THE SOLE RESPONSIBILITY OF THE CONTRACTOR. REROUTING DISCONNECTION, PROTECTION, ETC. OF ANY UTILITIES MUST BE COORDINATED BETWEEN THE CONTRACTOR, UTILITY COMPANY, AND OWNER. SITE SAFETY, INCLUDING THE AVOIDANCE OF HAZARDS ASSOCIATED WITH BURIED AND ABOVE GROUND UTILITIES, REMAINS THE SOLE RESPONSIBILITY OF THE CONTRACTOR.

EXAMINED Feb 2 20 10
PROGRAM IMPLEMENTATION ENGINEER

EXAMINED February 2 20 10
PROGRAM DEVELOPMENT ENGINEER

RATES OF APPLICATION TABLE

AGGREGATE (SURFACE, BASE, SUBBASE, OR BACKFILL)	2.05 TON / CU YD
SUBBASE GRANUALR MATERIAL	1.80 TON / CU YD
STONE DUMPED RIPRAP	1.50 TON / CU YD
HOT-MIX ASPHALT:	
BITUMINOUS MATERIALS (PRIME COAT)	0.00038 TON / SQ YD (on pavement)
BITUMINOUS MATERIALS (PRIME COAT)	0.001425 TON / SQ YD (on aggreagte)
AGGREGATE PRIME COAT	0.002 TON / SQ YD
SURFACE / BINDER (112 lbs)	0.056 TON / SQ YD • IN
SURFACE MIX D or E (120 lbs)	0.056 TON / SQ YD • IN
SEEDING AREAS:	
NITROGEN FERTILIZER NUTRIENT	90 LBS / ACRE
PHOSPHOROUS FERTILIZER NUTRIENT	90 LBS / ACRE
POTASSIUM FERTILIZER NUTRIENT	90 LBS / ACRE
AGGRICULTURAL GROUND LIMESTONE	2 TON / ACRE
MULCH	2 TON / ACRE

COMMITMENTS

1. THE FIELD/RESIDENT ENGINEER SHALL CONTACT STUDIES & PLANS CONCERNING ANY MAJOR PLAN CHANGES TO MAKE SURE NO PREVIOUS COMMITMENTS (NOT LISTED) WERE MADE AFFECTING THE DESIGN AND TO ALLOW IMPROVEMENT IN THE DESIGN FOR FUTURE PROJECTS.

2. LETTER OF UNDERSTANDING WITH ADAMS COUNTY AND TOWNSHIPS.

3. A SECTION 404 PERMIT WILL BE REQUIRED FOR IMPROVEMENTS AT AUSTIN CREEK.

DISTRICT SIX

EXAMINED January 25 20 10
OPERATIONS ENGINEER

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SHEETS INDEX & GENERAL NOTES

SCALE: none | SHEET NO. 1 OF 1 SHEETS | STA. | TO STA.

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
172	1-(1,2,3,4,5)RS	ADAMS	165	2
		CONTRACT NO. 72A09		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

100% STATE

SUMMARY OF QUANTITIES

	CODE NO.	ITEM	SP. PROV.	UNIT	TOTAL QUANTITIES	CONSTRUCTION AND SAFETY TYPE CODE: 1000-2A ROADWAY RURAL	X281-2A S.N. 001-0067	X231-2A S.N. 001-0064 S.N. 001-0065	X271-2A S.N. 001-0058	X271-2A S.N. 001-0060	X031-2A S.N. 001-0055 S.N. 001-0056	X031-2A S.N. 001-0062 S.N. 001-0063	X271-2A S.N. 001-0061	X271-2A S.N. 001-0044
	20100110	TREE REMOVAL (6 TO 15 UNITS DIAMETER)		UNIT	100	100								
	20100210	TREE REMOVAL (OVER 15 UNITS DIAMETER)		UNIT	100	100								
	20100500	TREE REMOVAL, ACRES		ACRE	0.5	0.5								
	20200100	EARTH EXCAVATION	*	CU YD	912	912								
**	20200200	ROCK EXCAVATION	*	CU YD	300	300								
	20201200	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL		CU YD	14	14								
	20300100	CHANNEL EXCAVATION		CU YD	500	500								
	20400800	FURNISHED EXCAVATION		CU YD	895	895								
	20600110	GRANULAR EMBANKMENT, SPECIAL		TON	55	55								
	21400100	GRADING AND SHAPING DITCHES	*	FOOT	810	810								
	25000200	SEEDING, CLASS 2		ACRE	0.75	0.75								
	25000400	NITROGEN FERTILIZER NUTRIENT		POUND	65	65								
	25000500	PHOSPHORUS FERTILIZER NUTRIENT		POUND	65	65								
	25000600	POTASSIUM FERTILIZER NUTRIENT		POUND	65	65								
	25000700	AGRICULTURAL GROUND LIMESTONE		TON	1.5	1.5								
	25100115	MULCH, METHOD 2		ACRE	0.75	0.75								
	25101005	HEAVY DUTY EXCELSIOR BLANKET	*	SQ YD	1000	1000								
	28000500	INLET AND PIPE PROTECTION		EACH	25	25								
	28001000	AGGREGATE (EROSION CONTROL)		TON	300	300								
	28100707	STONE DUMPED RIPRAP, CLASS A4	*	SQ YD	3545	3545								
	28200200	FILTER FABRIC		SQ YD	3748	3545					203			
	28400100	GABIONS		CU YD	144						144			
	31100100	SUB-BASE GRANULAR MATERIAL, TYPE A		TON	851	851								
	31200100	STABILIZED SUB-BASE 4"		SQ YD	120	120								
	35300300	PORTLAND CEMENT CONCRETE BASE COURSE 8"	*	SQ YD	152	152								
	35501320	HOT-MIX ASPHALT BASE COURSE, 9"	*	SQ YD	3003	3003								
	35501332	HOT-MIX ASPHALT BASE COURSE, 12"	*	SQ YD	2232	2232								
	40200800	AGGREGATE SURFACE COURSE, TYPE B		TON	5	5								
	40600200	BITUMINOUS MATERIALS (PRIME COAT)		TON	302.4	302.4								
	40600300	AGGREGATE (PRIME COAT)		TON	1180	1180								

** SPECIALTY ITEMS

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

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: none | SHEET NO. 1 OF 6 SHEETS | STA. | TO STA.

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
172	1-(1,2,3,4,5)RS	ADAMS	165	3
		CONTRACT NO. 72A09		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

100% STATE

SUMMARY OF QUANTITIES

CODE NO.	ITEM	SP. PROV.	UNIT	TOTAL QUANTITIES	CONSTRUCTION AND SAFETY TYPE CODE: I000-2A ROADWAY RURAL	X281-2A S.N. 001-0067	X231-2A S.N. 001-0064 S.N. 001-0065	X271-2A S.N. 001-0058	X271-2A S.N. 001-0060	X031-2A S.N. 001-0055 S.N. 001-0056	X031-2A S.N. 001-0062 S.N. 001-0063	X271-2A S.N. 001-0061	X271-2A S.N. 001-0044
40600895	CONSTRUCTING TEST STRIP		EACH	2	2								
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT		SQ YD	500	500								
40600985	PORTLAND CEMENT CONCRETE SURFACE REMOVAL - BUTT JOINT		SQ YD	480	480								
40600990	TEMPORARY RAMP	*	SQ YD	1500	1500								
40603235	POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70		TON	36182	36182								
40603540	POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70		TON	28121	28121								
40800050	INCIDENTAL HOT-MIX ASPHALT SURFACING		TON	35	35								
42001500	P.C. CONCRETE BRIDGE APPROACH SHOULDER PAVEMENT		SQ YD	179			42			70	67		
44000100	PAVEMENT REMOVAL	*	SQ YD	43	43								
44000155	HOT-MIX ASPHALT SURFACE REMOVAL, 1 1/2"		SQ YD	28947	28947								
44000198	HOT-MIX ASPHALT SURFACE REMOVAL, VARIABLE DEPTH	*	SQ YD	2098	2098								
44000500	COMBINATION CURB AND GUTTER REMOVAL	*	FOOT	654	654								
44002020	CONCRETE MEDIAN SURFACE REMOVAL	*	SQ FT	1470	1470								
44003100	MEDIAN REMOVAL		SQ FT	313	313								
44004250	PAVED SHOULDER REMOVAL	*	SQ YD	15796	15796								
44200529	CLASS A PATCHES, TYPE II, 8 INCH		SQ YD	25	25								
44200533	CLASS A PATCHES, TYPE III, 8 INCH		SQ YD	25	25								
44200535	CLASS A PATCHES, TYPE IV, 8 INCH		SQ YD	155	155								
44200541	CLASS A PATCHES, TYPE II, 9 INCH		SQ YD	1233	1233								
44200545	CLASS A PATCHES, TYPE III, 9 INCH		SQ YD	320	320								
44200547	CLASS A PATCHES, TYPE IV, 9 INCH		SQ YD	365	365								
44200934	CLASS B PATCHES, TYPE II, 8 INCH		SQ YD	707	707								
44200942	CLASS B PATCHES, TYPE III, 8 INCH		SQ YD	263	263								
44200944	CLASS B PATCHES, TYPE IV, 8 INCH		SQ YD	77	77								
44201294	CLASS B PATCH - EXPANSION JOINT		FOOT	224	224								
44201296	DEFORMED BARS - EXPANSION JOINT	*	EACH	196	196								
44212900	PAVEMENT PATCHING (PARTIAL DEPTH)	*	SQ YD	250	250								
44213000	PATCHING REINFORCEMENT	*	SQ YD	2120	2120								
44213100	PAVEMENT FABRIC		SQ YD	340	340								
44213200	SAW CUTS		FOOT	15174	15174								

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		DRAWN -	REVISED -
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	PLOT DATE = Feb-01-2010 08:56:02AM	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: none | SHEET NO. 2 OF 6 SHEETS | STA. | TO STA.

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
172	1-(1,2,3,4,5)RS	ADAMS	165	4
		CONTRACT NO. 72A09		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

100% STATE

SUMMARY OF QUANTITIES

CODE NO.	ITEM	SP. PROV.	UNIT	TOTAL QUANTITIES	CONSTRUCTION AND SAFETY TYPE CODE: 1000-2A ROADWAY RURAL	X281-2A S.N. 001-0067	X231-2A S.N. 001-0064 S.N. 001-0065	X271-2A S.N. 001-0058	X271-2A S.N. 001-0060	X031-2A S.N. 001-0055 S.N. 001-0056	X031-2A S.N. 001-0062 S.N. 001-0063	X271-2A S.N. 001-0061	X271-2A S.N. 001-0044
44300100	AREA REFLECTIVE CRACK CONTROL TREATMENT		SQ YD	3961	3961								
48101200	AGGREGATE SHOULDERS, TYPE B		TON	19746	19746								
48101300	AGGREGATE SHOULDERS, TYPE B (SPECIAL)	*	TON	586	586								
48203029	HOT-MIX ASPHALT SHOULDERS, 8"		SQ YD	887	887								
48203100	HOT-MIX ASPHALT SHOULDERS	*	TON	46228	46228								
50102400	CONCRETE REMOVAL		CU YD	99.1	6.0		20.2			27.8	32	13.1	
50157300	PROTECTIVE SHIELD		SQ YD	703			703						
50300100	FLOOR DRAINS		EACH	18			12				6		
50300255	CONCRETE SUPERSTRUCTURE		CU YD	105.2			23.9			31.8	36.4	13.1	
50300260	BRIDGE DECK GROOVING		SQ YD	7323			2164			2780	2379		
50500405	FURNISHING AND ERECTING STRUCTURAL STEEL		POUND	3810								200	3610
50500505	STUD SHEAR CONNECTORS		EACH	198	198								
50500715	JACK AND REMOVE EXISTING BEARINGS	*	EACH	18									18
50800105	REINFORCEMENT BARS		POUND	8190	8190								
50800205	REINFORCEMENT BARS, EPOXY COATED		POUND	13320			3620			3620	3970	2110	
50800515	BAR SPLICERS		EACH	132			44			44	44		
51500200	RELOCATING NAME PLATES	*	EACH	4						2	2		
52000110	PREFORMED JOINT STRIP SEAL		FOOT	720.0			203.0			201.5	224.5	91.0	
52100010	ELASTOMERIC BEARING ASSEMBLY, TYPE I		EACH	18									18
52100520	ANCHOR BOLTS, 1"		EACH	84								12	72
54002020	EXPANSION BOLTS 3/4 INCH		EACH	32	32								
54003000	CONCRETE BOX CULVERTS		CU YD	44.2	44.2								
542A1069	PIPE CULVERTS, CLASS A, TYPE 2 24"	*	FOOT	9	9								
54213657	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 12"	*	EACH	1	1								
54215547	METAL END SECTIONS 12"	*	EACH	1	1								
58700300	CONCRETE SEALER	*	SQ FT	138839		8371	22077	9817	12550	31520	26599	14134	13771
60246605	MEDIAN INLET (604101)		EACH	1	1								
60265505	MEDIAN INLET (604101) TO BE RECONSTRUCTED	*	EACH	15	15								
60300105	FRAMES AND GRATES TO BE ADJUSTED		EACH	23	13		4			4	2		
60500060	REMOVING INLETS		EACH	11	11								

Rev.

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

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: none | SHEET NO. 3 OF 6 SHEETS | STA. | TO STA.

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
172	1-(1,2,3,4,5)RS	ADAMS	165	5
		CONTRACT NO. 72A09		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

100% STATE

SUMMARY OF QUANTITIES

	CODE NO.	ITEM	SP. PROV.	UNIT	TOTAL QUANTITIES	CONSTRUCTION AND SAFETY TYPE CODE: 1000-2A ROADWAY RURAL	X281-2A S.N. 001-0067	X231-2A S.N. 001-0064 S.N. 001-0065	X271-2A S.N. 001-0058	X271-2A S.N. 001-0060	X031-2A S.N. 001-0055 S.N. 001-0056	X031-2A S.N. 001-0062 S.N. 001-0063	X271-2A S.N. 001-0061	X271-2A S.N. 001-0044
	60600605	CONCRETE CURB, TYPE B	•	FOOT	430	430								
	60608600	COMBINATION CONCRETE CURB AND GUTTER, TYPE M-6.06		FOOT	344	344								
	60610400	COMBINATION CONCRETE CURB AND GUTTER, TYPE M-6.24		FOOT	70	70								
	60618300	CONCRETE MEDIAN SURFACE, 4 INCH		SQ FT	870	870								
	60622400	CONCRETE MEDIAN, TYPE SM-6.06		SQ FT	136	136								
	60623200	CONCRETE MEDIAN, TYPE SM-6.24		SQ FT	227	227								
**	63000001	STEEL PLATE BEAM GUARD RAIL, TYPE A, 6 FOOT POSTS		FOOT	4081.25	4081.25								
**	63100045	TRAFFIC BARRIER TERMINAL, TYPE 2		EACH	9	9								
**	63100070	TRAFFIC BARRIER TERMINAL, TYPE 5		EACH	1	1								
**	63100085	TRAFFIC BARRIER TERMINAL, TYPE 6	•	EACH	30	30								
**	63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	•	EACH	26	26								
	63200310	GUARDRAIL REMOVAL	•	FOOT	5147	5147								
	63500105	DELINEATORS		EACH	1180	1180								
	63500120	DELINEATOR REMOVAL	•	EACH	900	900								
	64200105	SHOULDER RUMBLE STRIP		FOOT	184159	184159								
	66502405	WOVEN WIRE FENCE REMOVAL AND REPLACEMENT	•	FOOT	600	600								
	67000400	ENGINEER'S FIELD OFFICE, TYPE A		CAL MO	19	19								
	67100100	MOBILIZATION		L SUM	1	1								
	70100207	TRAFFIC CONTROL AND PROTECTION, STANDARD 701402		EACH	6	6								
	70100420	TRAFFIC CONTROL AND PROTECTION, STANDARD 701411		EACH	8	8								
	70100450	TRAFFIC CONTROL AND PROTECTION, STANDARD 701201		L SUM	1	1								
	70100460	TRAFFIC CONTROL AND PROTECTION, STANDARD 701306		L SUM	1	1								
	70100500	TRAFFIC CONTROL AND PROTECTION, STANDARD 701326		L SUM	1	1								
	70100700	TRAFFIC CONTROL AND PROTECTION, STANDARD 701406		L SUM	1	1								
	70100800	TRAFFIC CONTROL AND PROTECTION, STANDARD 701401		L SUM	1	1								
	70100820	TRAFFIC CONTROL AND PROTECTION, STANDARD 701451	•	L SUM	1	1								
	70100825	TRAFFIC CONTROL AND PROTECTION, STANDARD 701456	•	L SUM	1	1								
	70101830	TRAFFIC CONTROL AND PROTECTION, STANDARD BLR 21	•	L SUM	1	1								
	70103815	TRAFFIC CONTROL SURVEILLANCE		CAL DA	45	45								
	70106800	CHANGEABLE MESSAGE SIGN		CAL MO	4	4								

** Specialty Items

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: none | SHEET NO. 4 OF 6 SHEETS | STA. | TO STA.

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
172	1-(1,2,3,4,5)RS	ADAMS	165	6
		CONTRACT NO. 72A09		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

100% STATE

SUMMARY OF QUANTITIES

CODE NO.	ITEM	SP. PROV.	UNIT	TOTAL QUANTITIES	CONSTRUCTION AND SAFETY TYPE CODE: 1000-2A ROADWAY RURAL	X281-2A S.N. 001-0067	X231-2A S.N. 001-0064 S.N. 001-0065	X271-2A S.N. 001-0058	X271-2A S.N. 001-0060	X031-2A S.N. 001-0055 S.N. 001-0056	X031-2A S.N. 001-0062 S.N. 001-0063	X271-2A S.N. 001-0061	X271-2A S.N. 001-0044
70300100	SHORT-TERM PAVEMENT MARKING		FOOT	38000	38000								
70300210	TEMPORARY PAVEMENT MARKING - LETTERS AND SYMBOLS		SQ FT	382	382								
70300230	TEMPORARY PAVEMENT MARKING - LINE 5"		FOOT	265395	265395								
70300240	TEMPORARY PAVEMENT MARKING - LINE 6"		FOOT	1174	1174								
70300250	TEMPORARY PAVEMENT MARKING - LINE 8"		FOOT	7396	7396								
70300260	TEMPORARY PAVEMENT MARKING - LINE 12"		FOOT	1445	1445								
70300280	TEMPORARY PAVEMENT MARKING - LINE 24"		FOOT	144	144								
70301000	WORK ZONE PAVEMENT MARKING REMOVAL		SQ FT	124547	124547								
70400100	TEMPORARY CONCRETE BARRIER		FOOT	2762.5	2762.5								
70400200	RELOCATE TEMPORARY CONCRETE BARRIER		FOOT	2525	2525								
72000100	SIGN PANEL - TYPE 1		SQ FT	108	108								
72800100	TELESCOPING STEEL SIGN SUPPORT		FOOT	172	172								
78001120	PAINT PAVEMENT MARKING - LINE 5"		FOOT	650	650								
78004200	PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - INLAID - LETTERS AND SYMBOLS		SQ FT	382	382								
78004220	PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - INLAID - LINE 5"		FOOT	24230	24230								
78004230	PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - INLAID - LINE 6"		FOOT	208	208								
78004240	PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - INLAID - LINE 8"		FOOT	7396	7396								
78004250	PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - INLAID - LINE 12"		FOOT	1445	1445								
78004280	PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - INLAID - LINE 24"		FOOT	144	144								
78100100	RAISED REFLECTIVE PAVEMENT MARKER		EACH	1627	1627								
78200300	PRISMATIC CURB REFLECTOR		EACH	70	70								
78200410	GUARDRAIL MARKERS, TYPE A	•	EACH	134	134								
78201000	TERMINAL MARKER - DIRECT APPLIED	•	EACH	26	26								
78300100	PAVEMENT MARKING REMOVAL		SQ FT	5000	5000								
78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL		EACH	1662	1662								
Z0005300	BOX CULVERTS TO BE CLEANED	•	EACH	3	3								
Z0006204	BRIDGE DECK HYDRO-SCARIFICATION 1/2"	•	SQ YD	7488			2191			2863	2434		
Z0014700	CULVERT TO BE CLEANED	•	EACH	33	33								
Z0015570	TREE AND DEBRIS REMOVAL (SPECIAL)	•	ACRE	1.2	1.2								
Z0016001	DECK SLAB REPAIR (FULL DEPTH, TYPE I)	•	SQ YD	9.4			5.3			2.3	1.8		

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: none | SHEET NO. 5 OF 6 SHEETS | STA. | TO STA.

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
172	1-(1,2,3,4,5)RS	ADAMS	165	7
		CONTRACT NO. 72A09		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

100% STATE

SUMMARY OF QUANTITIES

	CODE NO.	ITEM	SP. PROV.	UNIT	TOTAL QUANTITIES	CONSTRUCTION AND SAFETY TYPE CODE: 1000-2A ROADWAY RURAL	X281-2A S.N. 001-0067	X231-2A S.N. 001-0064 S.N. 001-0065	X271-2A S.N. 001-0058	X271-2A S.N. 001-0060	X031-2A S.N. 001-0055 S.N. 001-0056	X031-2A S.N. 001-0062 S.N. 001-0063	X271-2A S.N. 001-0061	X271-2A S.N. 001-0044
	Z0016002	DECK SLAB REPAIR (FULL DEPTH, TYPE II)	*	SQ YD	157.5			5.3			100.2	52.0		
	Z0017202	DOWEL BARS 1 1/2"	*	EACH	2298	2298								
	Z0023600	FILLING EXISTING CULVERTS	*	EACH	11	11								
	Z0029999	IMPACT ATTENUATOR REMOVAL	*	EACH	2	2								
	Z0030030	IMPACT ATTENUATORS (FULLY REDIRECTIVE, NARROW), TEST LEVEL 3	*	EACH	2	2								
	Z0030260	IMPACT ATTENUATORS, TEMPORARY (FULLY REDIRECTIVE, NARROW), TEST LEVEL 3	*	EACH	6	6								
	Z0030330	IMPACT ATTENUATORS, RELOCATE (FULLY REDIRECTIVE), TEST LEVEL 3	*	EACH	6	6								
	Z0033600	LONGITUDINAL JOINT REPAIR	*	FOOT	8645	8645								
	Z0075300	TIE BARS	*	EACH	163	163								
	XZ191200	BRIDGE DECK MICROSILICA CONCRETE OVERLAY 2 1/2"	*	SQ YD	7488			2191			2863	2434		
	X0300136	BRIDGE APPROACH SHOULDER REMOVAL	*	SQ YD	250	71		42			70	67		
	X0320157	CLEANING UNDERDRAIN OUTLETS	*	EACH	325	325								
	X0320547	REMOVE AND REINSTALL END SECTION	*	EACH	2	2								
	X0320887	POLYMER CONCRETE	*	CU FT	98.9	90		8.9						
	X0322054	REMOVAL OF PRECAST FLARED END SECTION	*	EACH	1	1								
	X0322729	MATERIAL TRANSFER DEVICE	*	TON	55328	55328								
	X0325285	PORTLAND CEMENT CONCRETE SURFACE REMOVAL 1 1/2"	*	SQ YD	2153	2153								
	X0325305	STRUCTURAL REPAIR OF CONCRETE (DEPTH EQUAL TO OR LESS THAN 5 INCHES)	*	SQ FT	1058			825			18			215
	X0325702	NIGHTTIME WORK ZONE LIGHTING	*	L SUM	1	1								
	X0326029	GRADING AND SHAPING SPECIAL	*	SQ FT	600	600								
	X0326351	CONCRETE APRON FOR MEDIAN INLET	*	EACH	18	18								
	X0976500	END SECTIONS TO BE REMOVED	*	EACH	1	1								
	X2503000	MAINTENANCE MOWING	*	ACRE	375	375								
	X4400100	PORTLAND CEMENT CONCRETE SURFACE REMOVAL (VARIABLE DEPTH)	*	SQ YD	2147	2147								
	X7200201	WIDTH RESTRICTION SIGNING	*	L SUM	1	1								
**	X7800620	URETHANE PAVEMENT MARKING - LINE 5"	*	FOOT	241165	241165								
**	X7800630	URETHANE PAVEMENT MARKING - LINE 6"	*	FOOT	966	966								

** Specialty Items

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: none | SHEET NO. 6 OF 6 SHEETS | STA. | TO STA.

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
172	1-(1,2,3,4,5)RS	ADAMS	165	8
		CONTRACT NO. 72A09		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

CULVERT TO BE CLEANED

Z0014700

STATION	SIDE	EACH
FAI 172		
22+00.00	RT	1
45+00.00	RT	1
69+00.00	RT	1
87+00.00	RT	1
105+00.00	RT	1
118+22.00	LT	1
130+00.00	LT	1
140+00.00	LT	1
198+15.00	LT & RT	1
204+50.00	LT & RT	1
209+62.00	LT & RT	1
1+00.00	LT	1
6+80.00	LT & RT	1
38+00.00	LT & RT	1
67+00.00	RT	1
81+60.00	RT	1
103+55.00	LT & RT	1
130+00.00	RT	1
146+00.00	LT	1
152+44.00	LT	1
155+00.00	LT & RT	1
164+00.00	RT	1
190+95.00	RT	1
58+50.00	RT	1
RAMP A IL 96		
16+00.00	LT & RT	1
RAMP B IL 96		
1+40.00	LT & RT	1
IL 57		
47+40.00	LT & RT	1
48+00.00	RT	1
52+00.00	RT	1
53+60.00	LT & RT	1
IL 96		
36+25.00	LT	1
41+50.00	LT	1
42+50.00	LT & RT	1
TOTAL		33

BOX CULVERTS TO BE CLEANED

Z0005300

STATION	SIDE	EACH
FAI 172		
35+90.00	LT & RT	1
RAMP D IL 96		
2+55.00	LT & RT	1
IL 57		
31+17.00	LT & RT	1
TOTAL		3

REMOVAL OF PRECAST FLARED END SECTION

X0322054

STATION	SIDE	EACH
IL 57		
46+00.00	RT	1
TOTAL		1

PRECAST REINFORCED CONCRETE FLARED END SECTIONS 12″

54213657

STATION	SIDE	EACH
IL 57		
46+00.00	RT	1
TOTAL		1

CONCRETE APRON FOR MEDIAN INLET

X0326351

STATION	SIDE	STANDARD	EACH
FAI 172			
22+00.00	RT	604101	1
45+00.00	RT	604101	1
64+00.00	CL	604101	1
87+00.00	RT	604101	1
198+15.00	LT	604101	1
204+50.00	LT	604101	1
209+62.00	CL	604101	1
209+94.00	LT	604101	1
228+55.00	CL	604101	1
233+00.00	CL	542546	1
265+00.00	CL	542546	1
34+00.00	CL	542546	1
38+00.00	CL	604101	1
43+17.00	CL	604101	1
96+00.00	CL	604101	1
103+55.00	CL	604101	1
190+95.00	RT	604101	1
35+98.00	LT	604101	1
TOTAL			18

MEDIAN INLET (604101) TO BE RECONSTRUCTED

60265505

STATION	SIDE	EACH
FAI 172		
35+00.00	CL	1
170+20.00	CL	1
198+15.00	CL	1
204+50.00	CL	1
6+80.00	CL	1
11+00.00	CL	1
67+00.00	CL	1
81+20.00	CL	1
103+30.00	LT	1
114+65.00	CL	1
121+00.00	CL	1
138+85.00	CL	1
146+00.00	LT	1
155+00.00	CL	1
RAMP D IL 57		
1+40.00	LT	1
TOTAL		15

FRAMES AND GRATES TO BE ADJUSTED

60300105

STATION	SIDE	EACH
FAI 172		
105+00.00	RT	2
110+00.00	CL	2
118+22.00	LT	1
121+69.00	CL	1
124+50.00	LT	1
130+00.00	LT	2
140+00.00	LT	2
150+00.00	LT	2
TOTAL		13

IMPACT ATTENUATORS (FULLY REDIRECTIVE, NARROW), TEST LEVEL 3

Z0030030

STATION	SIDE	EACH
FAI 172		
102+68	CL	1
160+24	CL	1
TOTAL		2

GRADING AND SHAPING DITCHES

21400100

STATION TO STATION		SIDE	FOOT
FAI 172			
277+00.0	284+00.0	MEDIAN	700
IL 57			
30+91.0	31+05.0	RT	30
IL 96			
31+62.0	32+12.0	LT	50
32+63.0	32+93.0	RT	30
TOTAL			810

END SECTIONS TO BE REMOVED

X0976500

STATION	SIDE	EACH
FAI 172		
178+93.50	LT	1
TOTAL		1

METAL END SECTIONS 12″

54215547

STATION	SIDE	EACH
FAI 172		
178+93.50	LT	1
TOTAL		1

REMOVE AND REINSTALL END SECTION

X0320547

STATION	SIDE	EACH
IL 96		
41+50.00	LT	1
42+50.00	LT	1
TOTAL		2

GRADING AND SHAPING SPECIAL

X0326029

STATION	SIDE	SQ FT
IL 57		
52+00.00	CL	300
53+60.00	CL	300
TOTAL		600

AGGREGATE SURFACE COURSE, TYPE B

40200800

STATION	SIDE	SQ YD	TON
IL 57			
37+25.0	LT	52.7	4.5
TOTAL			4.5
USE			5

INCIDENTAL HOT-MIX ASPHALT SURFACING

40800050

STATION	SIDE	SQ YD	TON
IL 96			
37+00.00	LT	155.2	13.0
37+00.00	RT	252.0	21.2
TOTAL			34.2
USE			35

IMPACT ATTENUATOR REMOVAL

Z0029999

STATION	SIDE	EACH
FAI 172		
102+68	CL	1
160+24	CL	1
TOTAL		2

RIPRAP SCHEDULE

28100707 28200200

STATION	SIDE	LENGTH	WIDTH	STONE DUMPED RIPRAP, CLASS A4	FILTER FABRIC
				SQ YD	
FAI 172					
121+69.0	LT	170	12	230	230
257+80.0	LT	30	15	50	50
282+31.0	RT	100	20	225	225
35+98.0	LT	65	28	200	200
35+85.0	RT	30	25	80	80
68+50.0	CL	10	8	10	10
RAMP D IL 96					
2+97.0	LT	45	18	85	85
IL 57					
31+31.0	LT	20	20	50	50
46+00.0	RT	40	8	35	35
47+40.0	RT	30	13	45	45
48+00.0	RT	75	8	65	65
53+60.0	LT	40	12	55	55
IL 96					
36+25.0	LT	50	8	50	50
42+00.0	LT	150	8	135	135
48+60.0	RT	80	6	50	50
48+65.0	LT	80	6	50	50
51+30.0	RT	85	6	50	50
51+35.0	LT	85	6	50	50
TR 597					
98+67.5	LT	100	8	90	90
98+67.5	RT	100	8	90	90
98+88.5	RT	70	6	60	60
98+88.5	LT	70	6	60	60
101+11.5	LT	70	6	60	60
101+11.5	RT	70	6	60	60
101+32.5	LT	100	8	90	90
101+32.5	RT	100	8	90	90
TR 551					
98+52.0	LT	40	8	40	40
98+52.0	RT	50	8	50	50
98+73.0	LT	70	6	60	60
98+73.0	RT	90	6	70	70
101+34.5	LT	80	6	60	60
101+34.5	RT	90	6	70	70
101+55.5	LT	40	8	40	40
101+55.5	RT	70	8	70	70
TR 531A					
98+09.0	LT	70	8	70	70
98+31.0	RT	50	8	50	50
98+30.0	LT	100	6	80	80
98+52.0	RT	85	6	70	70
101+64.0	LT	125	6	90	90
101+86.0	RT	90	6	70	70
101+85.5	LT	50	8	50	50
102+07.5	RT	40	8	40	40
TR 483					
97+62.5	LT	40	8	40	40
98+00.5	RT	50	8	50	50
97+81.0	LT	95	6	70	70
98+23.0	RT	105	6	80	80
101+65.0	LT	95	6	70	70
101+93.0	RT	80	6	60	60
101+87.5	LT	40	8	40	40
102+13.0	RT	40	8	40	40
TOTALS				3545	3545

NOTE: THE LENGTH AND WIDTH ARE APPROXIMATE AND WILL BE ADJUSTED BASED ON FIELD CONDITIONS.

TREE AND DEBRIS REMOVAL (SPECIAL)

Z0015570

STATION TO STATION		SIDE	WIDTH	ACRE
IL 96				
265+00.00	285+95.95	LT	10	0.5
0+00.00	15+00.00	LT	10	0.3
267+00.00	276+00.00	RT	10	0.2
284+00.00	285+95.95	RT	10	0.1
0+00.00	5+00.00	RT	10	0.1
TOTAL				1.2

NOTE: TREES TO BE CLEARED WITHIN 30′ FROM SHOULDER.

MEDIAN INLET (604101)

60246605

STATION	SIDE	EACH
FAI 172		
282+26.0	CL	1
TOTAL		1

PIPE CULVERTS, CLASS A, TYPE 2 24″

542A1069

STATION	SIDE	FOOT
FAI 172		
282+26.0	CL	9
TOTAL		9

REMOVING INLETS

60500060

STATION	SIDE	EACH
FAI 172		
282+00.00	CL	1
TR 597		
98+79.25	LT	1
98+79.25	RT	1
101+20.75	LT	1
101+20.75	RT	1
TR 551		
98+63.75	LT	1
98+63.75	RT	1
TR 531A		
98+20.00	LT	1
98+42.70	RT	1
TR 483		
97+71.50	LT	1
101+77.60	LT	1
TOTAL		11

FILLING EXISTING CULVERTS

Z0023600

STATION	SIDE	EACH
FAI 172		
282+00.00	CL	1
TR 597		
98+79.25	LT	1
98+79.25	RT	1
101+20.75	LT	1
101+20.75	RT	1
TR 551		
98+63.75	LT	1
98+63.75	RT	1
TR 531A		
98+20.00	LT	1
98+42.70	RT	1
TR 483		
97+71.50	LT	1
101+77.60	LT	1
TOTAL		11

SEEDING SCHEDULE (ESTIMATED)

STATION TO STATION	SIDE	ESTIMATED LENGTH	ESTIMATED AVERAGE WIDTH	25000200 SEEDING CLASS 2	25000400 NITROGEN FERTILIZER NUTRIENT	25000500 PHOSPHOROUS FERTILIZER NUTRIENT	25000600 POTASSIUM FERTILIZER NUTRIENT	25000700 AGRICULTURAL GROUND LIMESTONE	25100115 MULCH METHOD 2
				ACRE	POUND			TON	ACRE
RAMP A IL 57									
27+39.94 28+36.94	RT	115	15	0.04	3.6	3.6	3.6	0.08	0.04
RAMP B IL 57									
0+23.00 1+34.08	RT	130	15	0.04	4.0	4.0	4.0	0.09	0.04
RAMP C IL 57									
25+22.58 26+18.90	RT	115	15	0.04	3.6	3.6	3.6	0.08	0.04
RAMP D IL 57									
0+23.00 1+43.59	RT	175	15	0.06	5.4	5.4	5.4	0.12	0.06
RAMP A IL 96									
20+72.26 21+30.14	LT	50	15	0.02	1.5	1.5	1.5	0.03	0.02
RAMP B IL 96									
0+23.35 1+92.73	LT	160	15	0.06	5.0	5.0	5.0	0.11	0.06
0+23.35 1+04.46	RT	125	15	0.04	3.9	3.9	3.9	0.09	0.04
RAMP C IL 96									
20+72.12 21+30.12	LT	50	15	0.02	1.5	1.5	1.5	0.03	0.02
RAMP D IL 96									
0+23.35 1+04.46	RT	120	15	0.04	3.7	3.7	3.7	0.08	0.04
0+23.35 1+92.61	LT	160	15	0.06	5.0	5.0	5.0	0.11	0.06
IL 57									
37+21.85 42+01.85	RT	530	25	0.30	27.4	27.4	27.4	0.61	0.30
TOTALS				0.72	64.6	64.6	64.6	1.43	0.72
USE				0.75	65	65	65	1.5	0.75

TEMPORARY CONCRETE BARRIER

STATION TO STATION	SIDE	SECTIONS	70400100 FOOT
FAI 172 (STAGE 1)			
117+88.16 121+93.00	RT	32	400
119+20.50 122+99.94	LT	30	375
146+66.96 151+73.26	RT	40	500
148+48.92 153+55.28	LT	40	500
178+54.97 183+07.56	RT	35	437.5
178+67.80 183+01.69	LT	35	437.5
FAI 172 (STAGE 2)			
116+76.28 117+88.16	RT	9	112.5
TOTAL			2762.5

RELOCATE TEMPORARY CONCRETE BARRIER

STATION TO STATION	SIDE	SECTIONS	70400200 FOOT
FAI 172 (STAGE 2)			
117+88.16 121+93.00	RT	32	400
119+20.50 122+49.45	LT	26	325
146+92.08 151+73.26	RT	38	475
148+48.92 153+30.16	LT	38	475
178+56.78 183+08.35	RT	35	437.5
178+76.18 182+86.01	LT	33	412.5
TOTAL			2525

IMPACT ATTENUATORS, TEMPORARY (FULLY REDIRECTIVE, NARROW) TEST LEVEL 3

STATION	SIDE	Z0030260 EACH
FAI 172 (STAGE 1)		
117+88.16	RT	1
122+99.94	LT	1
146+66.96	RT	1
153+55.28	LT	1
178+54.97	RT	1
183+01.69	LT	1
TOTAL		6

IMPACT ATTENUATORS, RELOCATE (FULLY REDIRECTIVE, NARROW) TEST LEVEL 3

STATION	SIDE	Z0030330 EACH
FAI 172 (STAGE 2)		
116+76.28	RT	1
122+49.45	LT	1
146+92.08	RT	1
153+30.16	LT	1
178+56.78	RT	1
182+86.01	LT	1
TOTAL		6

CONCRETE SEALER

LOCATION	58700300 SQ FT
SN 001-0067 (TR 597 OVER FAI 172)	8371
SN 001-0064 (SB FAI 172 OVER IL 57)	10043
SN 001-0065 (NB FAI 172 OVER IL 57)	12034
SN 001-0058 (TR 551 OVER FAI 172)	9817
SN 001-0060 (TR 531A OVER FAI 172)	12550
SN 001-0055 (NB FAI 172 OVER BURTON CREEK)	15760
SN 001-0056 (SB FAI 172 OVER BURTON CREEK)	15760
SN 001-0061 (TR 483 OVER FAI 172)	14134
SN 001-0062 (SB FAI 172 OVER MILL CREEK)	13159
SN 001-0063 (NB FAI 172 OVER MILL CREEK)	13440
SN 001-0044 (IL 96 OVER FAI 172)	13771
TOTAL	138839

SIGN SCHEDULE

STATION	SIDE	TYPE	72000100 SIGN PANEL TYPE 1	72800100 TELESCOPING STEEL SUPPORT
			SQ FT	FOOT
RAMP A IL 57				
27+97	RT	R1-1 (STOP SIGN)	9	15
28+07	LT	R1-1 (STOP SIGN)	9	15
28+23	RT	R1-1 (STOP SIGN)	9	13
RAMP C IL 57				
25+81	RT	R1-1 (STOP SIGN)	9	15
25+91	LT	R1-1 (STOP SIGN)	9	15
26+05	RT	R1-1 (STOP SIGN)	9	13
RAMP A IL 96				
20+95	RT	R1-1 (STOP SIGN)	9	15
21+09	LT	R1-1 (STOP SIGN)	9	15
21+19	RT	R1-1 (STOP SIGN)	9	13
RAMP C IL 96				
20+96	RT	R1-1 (STOP SIGN)	9	15
21+05	LT	R1-1 (STOP SIGN)	9	15
21+18	RT	R1-1 (STOP SIGN)	9	13
TOTALS			108	172

PAVEMENT RESURFACING SCHEDULE

STATION TO STATION	SIDE	40600200 BITUMINOUS MATERIALS (PRIME COAT)	40600300 AGGREGATE (PRIME COAT)	40603540 POLY HMA SURFACE COURSE MIX "D", N70	40603235 POLY HMA BINDER COURSE IL-19.0, N70	X0322729 MATERIAL TRANSFER DEVICE
		TON				
FAI 172						
16+40.03 285+95.95	SB LANE	53.99	284.2	6492.1	9077.1	15569.2
0+00.00 197+82.00	SB LANE	38.46	202.4	4675.0	6445.3	11120.3
30+87.58 75+99.00	SB LANE	9.14	48.1	1088.4	1543.5	2631.9
76+00.00 285+95.95	NB LANE	41.91	220.6	5054.2	7038.0	12092.2
0+00.00 197+82.00	NB LANE	38.42	202.2	4669.2	6437.1	11106.3
30+87.58 79+00.00	NB LANE	9.75	51.4	1161.0	1646.4	2807.4
MEDIAN CROSSOVER						
78+00.00	MEDIAN	0.13	0.7	15.2	21.2	
169+75.00	MEDIAN	0.10	0.5	12.3	17.3	
0+60.00	MEDIAN	0.13	0.7	15.2	21.2	
139+25.00	MEDIAN	0.19	1.0	22.6	31.6	
RAMP A IL 57						
0+00.00 28+36.94	LT & RT	3.72	19.6	480.3	588.6	
RAMP B IL 57						
0+23.00 26+66.76	LT & RT	2.86	15.0	372.7	446.0	
RAMP C IL 57						
0+00.00 26+18.90	LT & RT	3.24	17.1	422.8	508.4	
RAMP D IL 57						
0+23.00 32+79.62	LT & RT	4.26	22.4	546.5	678.0	
RAMP A IL 96						
0+00.00 21+30.14	LT & RT	2.73	14.4	355.7	428.2	
RAMP B IL 96						
0+23.35 23+26.74	LT & RT	2.64	13.9	344.4	412.0	
RAMP C IL 96						
0+00.00 21+30.12	LT & RT	2.73	14.3	355.0	428.5	
RAMP D IL 96						
0+23.35 23+31.22	LT & RT	2.64	13.9	345.5	413.4	
IL 57						
30+15.00 59+35.00	LT & RT	3.96	20.9	940.8		
IL 96						
32+00.00 57+57.60	LT & RT	3.16	16.6	751.4		
TOTALS		224.16	1179.8	28120.2	36182.0	55327.3
USE		224.2	1180	28121	36182	55328

SHOULDER RESURFACING SCHEDULE

STATION TO STATION	SIDE	40600200 BITUMINOUS MATERIALS (PRIME COAT)	48203100 HMA SHOULDERS	64200105 SHOULDER RUMBLE STRIP	48101200 AGGREGATE SHOULDERS TYPE B
		TON		FOOT	TON
FAI 172					
16+40.03 285+95.95	LT IS	8.89	4907.2	26746.4	2474.9
0+00.00 197+82.00	LT IS	4.84	2674.2	19177.8	2180.8
30+87.58 75+99.00	LT IS	1.14	631.6	4511.4	535.2
16+40.03 285+95.95	LT OS	11.08	6114.5	25785.0	1746.9
0+00.00 197+82.00	LT OS	8.07	4460.8	19181.7	1268.4
30+87.58 75+99.00	LT OS	1.22	672.5	2681.2	191.0
76+00.00 285+95.95	RT IS	7.38	4072.6	20786.5	1808.8
0+00.00 197+82.00	RT IS	4.84	2673.5	19162.7	2176.7
30+87.58 79+00.00	RT IS	1.22	673.7	4812.4	570.9
76+00.00 285+95.95	RT OS	8.27	4560.6	19154.2	1361.2
0+00.00 197+82.00	RT OS	8.06	4451.9	19158.2	1279.9
30+87.58 79+00.00	RT OS	1.44	794.2	3000.9	213.7
RAMP A IL 57					
0+00.00 28+36.94	RT	0.75	392.4		329.0
3+95.23 27+39.94	LT	0.40	215.9		241.0
RAMP B IL 57					
0+23.00 26+66.76	RT	0.64	333.8		202.9
0+90.25 17+14.10	LT	0.27	146.2		161.4
RAMP C IL 57					
0+00.00 26+18.90	RT	0.63	327.9		274.8
4+02.72 25+22.58	LT	0.36	194.9		216.3
RAMP D IL 57					
0+23.00 32+79.62	RT	0.84	445.5		373.9
0+89.36 29+56.83	LT	0.48	261.7		305.9
RAMP A IL 96					
0+00.00 21+30.14	RT	0.68	362.0		248.4
3+02.65 21+30.14	LT	0.30	157.4		166.2
RAMP B IL 96					
0+23.35 23+26.74	RT	0.78	417.8		262.2
0+23.35 14+75.52	LT	0.23	121.1		126.6
RAMP C IL 96					
0+00.00 21+30.12	RT	0.68	362.0		248.4
2+99.67 21+30.12	LT	0.29	156.4		166.5
RAMP D IL 96					
0+23.35 23+31.22	RT	0.80	420.4		264.4
0+23.35 14+82.05	LT	0.23	121.6		127.2
IL 57					
30+15.00 59+35.00	RT	0.84	185.7		63.7
30+15.00 59+35.00	LT	1.19	262.4		83.1
IL 96					
32+36.00 55+97.83	RT	0.65	143.9		36.6
31+36.05 55+80.93	LT	0.67	148.8		38.7
TOTALS		78.15	41865.0	184158.4	19745.8
USE		78.2	41865	184159	19746

WIDENING SCHEDULE

STATION TO STATION	SIDE	WIDTH	44004250 PAVED SHOULDER REMOVAL	X0300136 BRIDGE APPR SHOULDER REMOVAL	48203100 HMA SHOULDERS	20200100 EARTH EXCAVATION	31100100 SUB-BASE GRAN MATL TYPE A, 6"	48203029 HMA SHOULDERS 8"	35501320 HMA BASE COURSE 9"	35501332 HMA BASE COURSE 12"	20400800 FURNISHED EXCAVATION
			SQ YD		TON	CU YD	TON	SQ YD			CU YD
FAI 172											
102+88.00 119+52.00	LT IS	VARIES	1899.0		771.0						
102+88.00 119+52.00	RT IS	VARIES	1457.6		591.8						
115+75.00 118+22.00	RT OS	VARIES	216.9						216.9		
115+69.01 118+22.00	LT OS	VARIES	372.5						372.5		
118+15.00 119+37.00	LT IS	6	81.3						81.3		
121+61.50 160+05.33	LT IS	VARIES	3473.0		1410.0						
121+61.50 160+05.33	RT IS	VARIES	3916.3		1590.0						
121+76.50 123+50.00	LT IS	6	115.7						115.7		
121+76.50 124+70.00	LT OS	VARIES	313.7						313.7		
176+35.00 178+68.04	LT OS	10	258.9						258.9		
176+35.00 178+88.57	LT IS	6	169.0						169.0		
176+75.00 179+57.28	RT IS	6	188.2						188.2		
176+75.00 179+81.36	RT OS	10	340.4						340.4		
181+64.55 184+70.00	LT OS	10	339.4						339.4		
182+01.00 184+70.00	LT IS	6	179.3						179.3		
182+74.42 185+40.00	RT IS	6	177.1						177.1		
183+15.45 185+40.00	RT OS	10	249.5						249.5		
RAMP A IL 57											
27+39.94 28+36.94	RT	VARIES	157.5			82.5	89.7			252.6	63.9
RAMP B IL 57											
0+23.00 1+34.08	RT	VARIES	136.4			44.4	59.5			164.7	72.2
RAMP C IL 57											
25+22.58 26+18.90	RT	VARIES	154.3			80.2	87.3			246.1	63.9
RAMP D IL 57											
0+23.00 1+43.59	RT	VARIES	141.3			87.6	90.0			253.7	97.2
RAMP A IL 96											
20+72.26 21+30.14	LT	VARIES	31.9			15.5	17.7			48.7	27.8
RAMP B IL 96											
0+23.35 1+92.73	LT	VARIES	85.1			52.8	55.4			153.0	88.9
0+23.35 1+04.46	RT	VARIES	93.7			33.4	43.1			119.0	69.4
RAMP C IL 96											
20+72.12 21+30.12	LT	VARIES	31.9			15.5	17.7			48.8	27.8
RAMP D IL 96											
0+23.35 1+04.46	RT	VARIES	93.7			33.4	43.1			119.0	66.7
0+23.35 1+92.61	LT	VARIES	85.1			53.0	55.5			153.3	88.9
IL 57											
37+21.85 42+01.85	RT	VARIES	536.2			242.7	239.1			673.0	228.0
TR 597											
98+44.98 98+88.47	LT	5		6.7		3.9		24.2			
98+45.02 98+88.52	RT	5		6.7		3.9		24.2			
101+11.48 101+54.98	LT	5		6.7		3.9		24.2			
101+11.53 101+55.02	RT	5		6.7		3.9		24.2			
TR 551											
98+29.52 98+73.02	LT	5		6.7		3.9		24.2			
98+29.48 98+72.98	RT	5		6.7		3.9		24.2			
101+34.52 101+78.02	LT	5				5.4		24.2			
101+34.48 101+77.98	RT	5				5.4		24.2			
TR 531A											
97+86.62 98+33.79	LT	5		7.8		3.9		25.2			
98+08.62 98+48.45	RT	5		6.1		3.8		23.2			
101+68.05 102+07.88	LT	5				5.2		23.2			
101+82.71 102+29.88	RT	5				5.6		25.2			
TR 483											
97+39.46 97+89.93	LT	5		9.6		3.6		26.0			
97+78.21 98+15.15	RT	5				5.0		22.4			
101+70.50 102+10.07	LT	5		6.8		3.6		23.0			
101+87.66 102+34.90	RT	5				5.6		25.3			
TOTALS			15295.2	70.2	4362.8	811.7	798.1	386.7	3002.0	2232.0	894.7
USE			15296	71	4363	812	799	387	3003	2232	895

FILE NAME = c:\pw_work\PWIDOT\LAUGHLINRL\d0182983\009-D672A09-sht-scheduleQ.dgn	USER NAME = laughlinrl	DESIGNED -	REVISED -
		DRAWN -	REVISED -
	PLOT SCALE = 100.0002 ' / IN.	CHECKED -	REVISED -
	PLOT DATE = Feb-01-2010 09:33:49AM	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES

SCALE: none | SHEET NO. 4 OF 18 SHEETS | STA. | TO STA.

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
172	1-(1,2,3,4,5)RS	ADAMS	165	12
		CONTRACT NO. 72A09		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

PAVEMENT SURFACE REMOVAL SCHEDULE

STATION TO STATION	SIDE	WIDTH	40600985 PCC SURFACE REMOVAL BUTT JOINT	40600982 HMA SURFACE REMOVAL BUTT JOINT	44000155 HMA SURFACE REMOVAL 1 1/2"	X0325285 PCC SURFACE REMOVAL 1 1/2"	44000198 HMA SURFACE REMOVAL (VARIABLE DEPTH)	X4400100 PCC SURFACE REMOVAL (VARIABLE DEPTH)
			SQ YD					
FAI 172								
16+40.03 16+70.03	LT	24	80.0					
167+75.00 171+90.00	LT	24						1106.7
75+24.00 75+99.00	LT	24					200.0	
76+00.00 76+30.00	RT	24	80.0					
54+20.00 58+10.00	RT	24						1040.0
78+25.00 79+00.00	RT	24					200.0	
RAMP A IL 57								
27+09.94 27+39.94	LT	16	53.3					
27+39.94 28+36.94	LT & RT	VARIES				553.4		
RAMP B IL 57								
0+23.00 1+34.08	LT & RT	VARIES				462.2		
1+34.08 1+64.08	LT	16	53.3					
RAMP C IL 57								
24+92.58 25+22.58	LT	16	53.3					
25+22.58 26+18.90	LT & RT	VARIES				542.6		
RAMP D IL 57								
0+23.00 1+43.59	LT & RT	VARIES				594.0		
1+43.59 1+73.59	LT	16	53.3					
RAMP A IL 96								
20+42.26 20+72.26	LT & RT	VARIES		76.2				
20+72.26 21+30.14	LT & RT	VARIES			355.7			
RAMP B IL 96								
0+23.35 1+04.46	LT & RT	VARIES			329.9			
1+04.46 1+34.46	LT	VARIES	53.3					
RAMP C IL 96								
20+42.12 20+72.12	LT & RT	VARIES		76.0				
20+72.12 21+30.12	LT & RT	VARIES			356.1			
RAMP D IL 96								
0+23.35 1+04.46	LT & RT	VARIES			329.9			
1+04.46 1+34.46	LT	VARIES	53.3					
IL 57								
30+15.00 30+65.00	LT & RT	24			133.3			
30+65.00 34+00.00	LT & RT	24			893.3			
34+00.00 36+16.33	LT & RT	28			673.0			
36+16.33 59+35.00	RT	14			3606.8			
36+16.33 59+35.00	LT	14			3606.8			
42+78.75 48+97.68	LT & RT	VARIES			646.8			
37+21.85 42+01.85	RT	VARIES			414.4			
56+13.47 58+85.00	LT	VARIES			371.9			
58+85.00 59+35.00	LT	12			66.7			
IL 96								
32+00.00 48+60.99	RT	14			2583.8			
51+30.83 57+57.60	RT	14			975.0			
32+00.00 48+64.17	LT	14			2588.7			
51+34.01 57+24.33	LT	14			918.3			
36+49.84 37+51.52	LT & RT	VARIES			123.4			
43+40.35 48+63.48	LT & RT	VARIES			560.9			
51+31.52 56+59.66	LT & RT	VARIES			567.5			
TOTALS			480.0	152.2	20102.3	2152.3	400.0	2146.7
USE			480	153	20103	2153	400	2147

SHOULDER SURFACE REMOVAL SCHEDULE

STATION TO STATION	SIDE	WIDTH	40600982 HMA SURFACE REMOVAL BUTT JOINT	44000155 HMA SURFACE REMOVAL 1 1/2"	44000198 HMA SURFACE REMOVAL (VARIABLE DEPTH)
			SQ YD		
FAI 172					
16+40.03 16+70.03	LT IS	6	20.0		
167+75.00 171+90.00	LT IS	6			276.7
75+24.00 75+99.00	LT IS	6			50.0
16+40.03 16+70.03	LT OS	10	33.3		
167+75.00 171+90.00	LT OS	10			461.1
75+24.00 75+99.00	LT OS	10			83.3
76+00.00 76+30.00	RT IS	6	20.0		
54+20.00 58+10.00	RT IS	6			260.0
78+25.00 79+00.00	RT IS	6			50.0
76+00.00 76+30.00	RT OS	10	33.3		
54+20.00 58+10.00	RT OS	10			433.3
78+25.00 79+00.00	RT OS	10			83.3
RAMP A IL 57					
27+09.94 27+39.94	RT	6	20.0		
27+09.94 27+39.94	LT	4	13.3		
RAMP B IL 57					
1+34.08 1+64.08	RT	6	20.0		
1+34.08 1+64.08	LT	4	13.3		
RAMP C IL 57					
24+92.58 25+22.58	RT	6	20.0		
24+92.58 25+22.58	LT	4	13.3		
RAMP D IL 57					
1+43.59 1+73.59	LT	4	13.3		
1+43.59 1+73.59	RT	6	20.0		
RAMP A IL 96					
20+42.26 20+72.26	RT	6	20.0		
20+72.26 21+30.14	RT	6		88.9	
20+42.26 20+72.26	LT	4	13.3		
RAMP B IL 96					
1+04.46 1+34.46	RT	6	20.0		
RAMP C IL 96					
20+42.12 20+72.12	RT	6	20.0		
20+72.12 21+30.12	RT	6		88.9	
20+42.12 20+72.12	LT	4	13.3		
RAMP D IL 96					
1+04.46 1+34.46	RT	6	20.0		
IL 57					
30+15.00 37+21.85	RT	10		785.4	
37+21.85 38+56.31	RT	7		104.6	
45+39.37 55+36.39	RT	10		1107.8	
58+81.04 59+35.00	RT	10		60.0	
30+15.00 31+45.42	LT	4		58.0	
31+45.42 32+47.03	LT	7		79.0	
32+47.03 59+35.00	LT	10		2986.6	
IL 96					
32+36.00 32+62.55	RT	4		11.8	
32+62.55 42+75.67	RT	8		900.6	
44+19.12 48+60.29	RT	8		392.2	
51+38.40 55+97.83	RT	8		408.4	
31+36.05 31+62.41	LT	4		11.7	
31+62.41 42+42.41	LT	8		960.0	
44+02.18 48+64.87	LT	8		411.3	
51+44.44 55+80.93	LT	8		388.0	
TOTALS			346.7	8843.1	1697.8
USE			347	8844	1698

CURB & GUTTER / MEDIAN SCHEDULE

STATION TO STATION	SIDE	44000100 PAVEMENT REMOVAL	44000500 COMBINATION CURB & GUTTER REMOVAL	44002020 CONC MEDIAN SURFACE REMOVAL	44003100 MEDIAN REMOVAL	20200100 EARTH EXCAVATION	20600110 GRANULAR EMBANKMENT SPECIAL, 10"	31100100 SUB-BASE GRAN MATL TYPE A, 6"	35300300 PCC BASE COURSE 8"	60608600 COMBINATION CURB & GUTTER TYPE M-6.06	60610400 COMBINATION CURB & GUTTER TYPE M-6.24	60618300 CONC MEDIAN SURFACE 4 INCH	60622400 CONCRETE MEDIAN TYPE SM-6.06	60623200 CONCRETE MEDIAN TYPE SM-6.24
		SQ YD	FOOT	SQ FT		CU YD	TON		SQ YD	FOOT		SQ FT		
RAMP A IL 57														
28+01.81 28+28.94	LT & RT	10.3	74.6	257.5		16.5	7.1	11.3	33.1	13.3	36.0	112.0		
RAMP C IL 57														
25+84.80 26+10.94	LT & RT	9.3	70.6	231.9		15.7	5.9	10.7	31.4	11.8	33.2	92.7		
RAMP A IL 96														
21+03.31 21+22.64	LT & RT	4.8	51.0	108.3		4.9	4.4	3.3	9.7	39.7		70.1		
RAMP C IL 96														
21+03.29 21+22.62	LT & RT	4.8	51.0	108.3		4.9	4.6	3.3	9.7	39.7		72.2		
IL 57														
43+15.50 43+23.50	LT & RT		15.5			1.4								71.2
43+80.71 44+06.60	RT				155.5	2.1		4.3	12.6					42.0
56+50.67 56+58.67	LT & RT		15.5			1.4								71.2
57+19.50 57+45.72	RT				157.3	2.1		4.4	12.8					42.0
IL 96														
43+74.05 43+90.08	LT & RT	5.6	23.3	62.9		4.2	4.8			20.3		75.2	41.0	
44+46.56 45+23.89	RT	0.9	156.0	274.3		18.4	9.0	7.2	21.1	91.1		141.7	26.6	
54+76.16 55+53.44	LT	0.9	156.0	274.3		18.4	9.0	7.2	21.1	91.1		141.7	26.6	
56+09.93 56+34.00	LT & RT	5.6	39.8	151.9		9.1	10.4			36.8		164.2	41.0	
TOTALS		42.2	653.3	1469.4	312.8	99.1	55.0	51.8	151.6	343.8	69.2	869.8	135.2	226.4
USE		43	654	1470	313	100	55	52	152	344	70	870	136	227

TEMPORARY RAMP

STATION TO STATION	SIDE	DEPTH (INCHES)	PAVEMENT WIDTH	SHOULDER WIDTH	40600990 SQ YD
FAI 172					
16+40.03 16+50.03	LT	1.5	24	16	44.4
76+00.00 76+10.00	RT	1.5	24	16	44.4
119+42.00 119+52.00	RT	2	42	12	60.0
119+42.00 119+52.00	LT	2	40	12	57.8
121+61.50 121+71.50	RT	2	38	12	55.6
121+61.50 121+71.50	LT	2	29	12	45.6
147+99.01 148+09.01	RT	2	24	16	44.4
148+73.03 148+83.03	LT	2	24	16	44.4
151+40.51 151+50.51	RT	2	24	16	44.4
152+14.53 152+24.53	LT	2	24	16	44.4
178+87.50 178+97.50	LT	2	24	16	44.4
179+77.31 179+87.31	RT	2	24	16	44.4
181+69.73 181+79.73	LT	2	24	16	44.4
182+77.40 182+87.40	RT	2	24	16	44.4
75+86.50 75+99.00	LT	3.75	24	16	55.6
78+87.50 79+00.00	RT	3.75	24	16	55.6
RAMP A IL 57					
27+27.44 27+39.94	LT	3.75	16	10	36.1
RAMP B IL 57					
1+34.08 1+46.58	LT	3.75	16	10	36.1
RAMP C IL 57					
25+10.08 25+22.58	LT	3.75	16	10	36.1
RAMP D IL 57					
1+43.59 1+56.09	LT	3.75	16	10	36.1
RAMP A IL 96					
20+62.26 20+72.26	LT	1.5	16	10	28.9
RAMP B IL 96					
1+04.46 1+14.46	LT	1.5	16	10	28.9
RAMP C IL 96					
20+62.12 20+72.12	LT	1.5	16	10	28.9
RAMP D IL 96					
1+04.46 1+14.46	LT	1.5	16	10	28.9
IL 57					
30+15.00 30+25.00	LT & RT	1.5	24	14	42.2
59+25.00 59+35.00	LT	1.5	26	10	40.0
59+25.00 59+35.00	RT	1.5	14	10	26.7
IL 96					
32+00.00 32+10.00	LT & RT	1.5	28	8	40.0
48+50.99 48+60.99	RT	1.5	14	8	24.4
48+54.17 48+64.17	LT	1.5	14	8	24.4
51+30.83 51+40.83	RT	1.5	14	8	24.4
51+34.01 51+44.01	LT	1.5	14	8	24.4
57+14.33 57+24.33	LT	1.5	14	8	24.4
57+47.60 57+57.60	RT	1.5	14	8	24.4
TOTAL					1330.0
USE					1330

BOX CULVERT EXTENSION SCHEDULE

STATION	SIDE	50102400 CONCRETE REMOVAL	54003000 CONCRETE BOX CULVERTS	54002020 EXPANSION BOLTS 3/4 INCH	50800105 REINFORCEMENT BARS
		CU YD	CU YD	EACH	POUND
IL 57					
31+17.0	LT	3.0	20.12	16	3640
31+17.0	RT	3.0	24.06	16	4550
TOTALS		6.0	44.18	32	8190
USE		6.0	44.2	32	8190

ESTIMATED QUANTITIES

PAY ITEM NUMBER	PAY ITEM	UNIT	QUANTITY	LOCATION/REASON
20100110	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	UNIT	100	FACILITATE DRAINAGE (AS NEEDED)
20100210	TREE REMOVAL (OVER 15 UNITS DIAMETER)	UNIT	100	FACILITATE DRAINAGE (AS NEEDED)
20100500	TREE REMOVAL, ACRES	ACRE	0.5	FACILITATE DRAINAGE (AS NEEDED)
20200200	ROCK EXCAVATION	CU YD	300	AS DIRECTED
20300100	CHANNEL EXCAVATION	CU YD	500	FACILITATE DRAINAGE (AS NEEDED)
25101005	HEAVY DUTY EXCELSIOR BLANKET	SQ YD	1000	EROSION CONTROL (AS NEEDED)
28000500	INLET AND PIPE PROTECTION	EACH	25	EROSION CONTROL (AS NEEDED)
28001000	AGGREGATE (EROSION CONTROL)	TON	300	EROSION CONTROL (AS NEEDED)
40600990	TEMPORARY RAMP	SQ YD	170	FAI 172 RESURFACING (AS NEEDED)
44004250	PAVED SHOULDER REMOVAL	SQ YD	500	AS DIRECTED
44212900	PAVEMENT PATCHING (PARTIAL DEPTH)	SQ YD	250	AS DIRECTED
48203029	HOT-MIX ASPHALT SHOULDERS, 8"	SQ YD	500	AS DIRECTED
63500105	DELINEATORS	EACH	590	AS DIRECTED TO CONTRACT 72694 SECTION
63500120	DELINEATOR REMOVAL	EACH	900	REMOVE ALL INCLUDING CONTRACT 72694 SECTION
66502405	WOVEN WIRE FENCE REMOVAL AND REPLACEMENT	FOOT	600	AS NEEDED FOR PLACING RIPRAP
70103815	TRAFFIC CONTROL SURVEILLANCE	CAL DA	45	PATCHING & WIDENING
70106800	CHANGEABLE MESSAGE SIGN	CAL MO	4	RAMP CLOSURES
70300100	SHORT-TERM PAVEMENT MARKING	FOOT	38000	TEMPORARY STRIPING ON BINDER/SURFACE
70300210	TEMPORARY PAVEMENT MARKING - LETTERS & SYMBOLS	SQ FT	382	TEMPORARY STRIPING ON BINDER/SURFACE
70300230	TEMPORAY PAVEMENT MARKING - LINE 5"	FOOT	265395	TEMPORARY STRIPING ON BINDER/SURFACE
70300240	TEMPORAY PAVEMENT MARKING - LINE 6"	FOOT	1174	TEMPORARY STRIPING ON BINDER/SURFACE
70300250	TEMPORAY PAVEMENT MARKING - LINE 8"	FOOT	7396	TEMPORARY STRIPING ON BINDER/SURFACE
70300260	TEMPORAY PAVEMENT MARKING - LINE 12"	FOOT	1445	TEMPORARY STRIPING ON BINDER/SURFACE
70300280	TEMPORAY PAVEMENT MARKING - LINE 24"	FOOT	144	TEMPORARY STRIPING ON BINDER/SURFACE
70301000	WORK ZONE PAVEMENT MARKING REMOVAL	SQ FT	124547	REMOVE TEMPORARY STRIPING
78001120	PAINT PAVEMENT MARKING - LINE 5"	FOOT	650	UNDERDRAIN OUTLET LOCATIONS
78300100	PAVEMENT MARKING REMOVAL	SQ FT	5000	FAI 172 STRUCTURE REPAIRS (TRAFFIC CONTROL)
78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	1662	REMOVE ALL
X0320157	CLEANING UNDERDRAIN OUTLETS	EACH	325	JOBSITE WHEN NEEDED
X0320887	POLYMER CONCRETE	CU FT	90	SURFACING OVER WIDE FLANGE BEAM TERMINAL JOINTS
X2503000	MAINTENANCE MOWING	ACRE	375	JOBSITE WHEN NEEDED

GUARDRAIL SCHEDULE

STATION TO STATION		OFFSET (FOOT)	SIDE	63200310 GUARDRAIL REMOVAL	60600605 CONCRETE CURB TYPE B	63000001 SPBGR TYPE A (6 FOOT POSTS)	63100045 TRAFFIC BARRIER TERMINAL TYPE 2	63100070 TRAFFIC BARRIER TERMINAL TYPE 5	63100085 TRAFFIC BARRIER TERMINAL TYPE 6	63100167 TRAFFIC BARRIER TERMINAL TYPE 1 SPECIAL (TANGENT)	48101300 AGGREGATE SHOULDERS TYPE B (SPECIAL)	78200410 GUARDRAIL MARKERS TYPE A	78201000 TERMINAL MARKERS DIRECT APPLIED
				FOOT			EACH				TON	EACH	
FAI 172													
24+76.25	26+20.00	21.00	LT IS	150		81.25	1			1	20.5	4	1
54+76.25	56+20.00	21.00	LT IS	150		81.25	1			1	20.5	4	1
83+99.00	85+80.25	6.00	RT IS	75		118.75	1			1		4	1
85+43.75	87+25.00	6.00	LT IS	75		118.75	1			1		4	1
119+27.00	119+52.00	60.00	LT OS	25									
121+61.50	122+11.50	9.00	RT IS	50									
121+61.50	127+48.40	49.00	LT OS	375	15	493.75			1	1	83.6	6	1
229+42.00	231+23.25	6.00	RT IS	75		118.75	1			1		4	1
230+86.75	232+68.00	6.00	LT IS	75		118.75	1			1		4	1
30+49.00	32+30.25	6.00	RT IS	75		118.75	1			1		4	1
31+85.75	33+67.00	6.00	LT IS	75		118.75	1			1		4	1
144+18.80	148+05.70	38.00	RT IS	175	15	293.75			1	1	55.1	4	1
144+42.82	147+79.72	78.00	RT OS	325	15	243.75			1	1	48.0	4	1
148+30.04	148+55.04	38.00	LT IS	25									
148+31.02	148+81.02	78.00	LT OS	50									
151+41.22	151+66.22	78.00	RT OS	25									
151+67.20	151+92.20	38.00	RT IS	25									
152+16.54	156+03.44	38.00	LT IS	175	15	293.75			1	1	55.1	4	1
152+42.52	155+79.42	78.00	LT OS	200	15	243.75			1	1	48.0	4	1
177+20.38	179+57.28	38.00	RT IS	250	15	143.75			1	1	33.7	4	1
177+69.46	179+81.36	78.00	RT OS	200	15	118.75			1	1	30.2	4	1
178+43.04	178+68.04	78.00	LT OS	25									
178+63.57	178+88.57	38.00	LT IS	25									
181+64.55	184+76.45	78.00	LT OS	300	15	218.75			1	1	44.4	4	1
182+01.00	184+12.90	38.00	LT IS	175	15	118.75			1	1	30.2	4	1
182+74.42	182+99.42	38.00	RT IS	25									
183+15.45	183+40.45	78.00	RT OS	25									
RAMP B (IL 57)													
15+94.29	18+43.69	6.00	RT	275	15	156.25			1	1	35.5	4	1
20+53.23	22+99.15	6.00	RT	325		218.75	1	1			35.0	4	
IL 96													
45+47.66	48+59.56	31.00	RT	125	15	218.75			1	1	17.8	4	1
47+75.95	48+69.10	31.00	LT	125	15				1	1	5.3	4	1
51+28.90	52+22.05	31.00	RT	125	5				1	1	5.3	4	1
51+34.94	54+46.84	31.00	LT	125	5	218.75			1	1	17.8	4	1
TR 597													
98+45.33	98+88.48	15.00	LT	43.5	15				1			2	
98+45.37	98+88.52	15.00	RT	43.5	15				1			2	
101+11.52	101+54.67	15.00	RT	43.5	15				1			2	
101+11.48	101+54.63	15.00	LT	43.5	15				1			2	
TR 551													
98+29.88	98+73.03	15.00	LT	43.5	15				1			2	
98+29.82	98+72.97	15.00	RT	43.5	15				1			2	
101+34.47	102+46.37	15.00	RT	100	15	18.75			1	1		4	1
101+34.53	103+21.43	15.00	LT	100	15	93.75			1	1		4	1
TR 531A													
97+86.97	98+30.12	15.00	LT	43.5	15				1			2	
98+08.97	98+52.12	15.00	RT	43.5	15				1			2	
101+64.38	103+51.28	15.00	LT	50	15	93.75			1	1		4	1
101+86.38	102+98.28	15.00	RT	50	15	18.75			1	1		4	1
TR 483													
97+40.27	97+83.42	15.00	LT	43.5	15				1			2	
97+78.11	98+21.26	15.00	RT	43.5	15				1			2	
89+44.41	89+87.56	15.00	LT	43.5	15				1			2	
88+87.71	89+30.86	15.00	RT	43.5	15				1			2	
TOTALS				5147.0	430	4081.25	9	1	30	26	585.7	134	26
USE				5147	430	4081.25	9	1	30	26	586	134	26

RAISED REFLECTIVE PAVEMENT MARKER

78100100

STATION TO STATION		SIDE	MINIMUM SPACING	1-WAY AMBER	1-WAY CRYSTAL	2-WAY AMBER
				EACH		
FAI 172						
16+40.03	285+95.95	LT CL	80		337	
0+00.00	197+82.00	LT CL	80		248	
30+87.58	75+99.00	LT CL	80		57	
76+00.00	285+95.95	RT CL	80		263	
0+00.00	197+82.00	RT CL	80		248	
30+87.58	79+00.00	RT CL	80		61	
95+24.80	99+25.13	RT OS	40		11	
115+69.01	119+43.66	LT OS	40		10	
39+84.49	43+62.87	RT OS	40		10	
68+56.00	72+37.51	LT OS	40		10	
RAMP A IL 57						
0+00.00	7+55.52	RT	20		38	
2+74.97	7+55.52	LT	40		13	
7+55.52	14+49.96	LT	40	18		
RAMP C IL 57						
0+00.00	0+63.59	RT	20		4	
2+73.39	7+60.09	RT	20		25	
2+80.88	7+60.09	LT	40		12	
7+60.09	10+60.09	LT	40	8		
RAMP D IL 57						
0+23.00	0+61.51	RT	25		3	
RAMP A IL 96						
0+00.00	6+62.40	RT	20		34	
2+83.71	6+62.40	LT	40		10	
6+62.40	12+38.05	LT	40	15		
RAMP C IL 96						
0+00.00	6+62.38	RT	20		34	
2+80.57	6+62.38	LT	40		10	
6+62.38	12+38.03	LT	40	15		
IL 57						
30+15.00	34+18.33	CL	80			6
34+18.33	36+18.33	CL	40			10
36+18.33	42+78.75	LT	40	17		
36+18.33	43+18.50	RT	40	18		
42+78.75	43+24.00	LT	VARIES	2		
43+18.50	43+24.00	RT	VARIES	2		
37+33.33	42+01.85	RT	40		12	
39+61.85	43+26.82	RT	40		10	
43+99.52	45+99.41	LT	40		5	
43+99.00	45+99.41	LT	40	6		
43+99.00	45+99.41	RT	40	6		
56+13.47	56+59.00	LT	VARIES	3		
56+53.67	56+59.00	RT	VARIES	2		
57+38.47	59+35.00	LT	40		5	
57+38.00	59+35.00	LT	40	5		
57+38.00	59+35.00	RT	40	5		
IL 96						
32+00.00	33+00.00	LT & RT	20			10
44+78.39	46+33.95	LT	40		4	
53+61.05	55+21.66	RT	40		5	
TOTALS				122	1479	26
USE					1627	

NOTE: DO NOT INSTALL RAISED REFLECTIVE PAVEMENT MARKERS ON BRIDGES.

DELINEATORS

63500105

STATION TO STATION		SIDE	MINIMUM SPACING	EACH
FAI 172				
16+40.03	46+11.02	LT	150	20
46+11.02	53+11.02	LT	VARIES	3
53+11.02	84+16.15	LT	400	8
84+16.15	91+16.15	LT	VARIES	3
97+80.38	111+01.84	LT	150	9
111+01.84	115+31.42	LT	200	2
122+25.00	140+74.17	LT	400	5
140+74.17	147+74.17	LT	VARIES	3
147+74.17	178+23.29	LT	150	21
178+23.29	185+23.29	LT	VARIES	3
185+23.29	253+68.42	LT	400	18
253+68.42	261+68.42	LT	VARIES	3
261+68.42	285+76.16	LT	175	14
285+76.16	285+95.95	LT	VARIES	0
0+00.00	7+80.21	LT	VARIES	3
7+80.21	149+75.59	LT	400	36
149+75.59	156+75.59	LT	VARIES	3
156+75.59	197+82.00	LT	150	28
30+87.58	32+87.58	LT	VARIES	1
45+68.31	68+27.56	LT	400	6
76+00.00	84+16.15	RT	400	3
84+16.15	91+16.15	RT	VARIES	3
99+66.83	115+81.42	RT	150	11
127+74.79	140+74.17	RT	400	4
140+74.17	147+74.17	RT	VARIES	3
147+74.17	178+23.29	RT	150	21
178+23.29	185+23.29	RT	VARIES	3
185+23.29	253+68.42	RT	400	18
253+68.42	261+68.42	RT	VARIES	3
261+68.42	285+76.16	RT	175	14
285+76.16	285+95.95	RT	VARIES	0
0+00.00	7+80.21	RT	VARIES	3
7+80.21	149+75.59	RT	400	36
149+75.59	156+75.59	RT	VARIES	3
156+75.59	197+82.00	RT	150	28
30+87.58	34+87.58	RT	200	2
43+91.30	66+45.01	RT	400	6
RAMP A IL 57				
0+00.00	14+49.96	RT	100	15
7+05.66	14+49.96	LT	100	8
21+05.95	22+91.57	RT	100	2
RAMP B IL 57				
5+68.37	14+75.86	LT	50	19
11+16.76	26+66.76	RT	100	16
RAMP C IL 57				
0+00.00	10+60.09	RT	100	11
6+93.23	18+23.82	LT	50	23
RAMP D IL 57				
8+19.00	32+79.62	RT	100	25
18+44.20	26+51.26	LT	100	9
RAMP A IL 96				
0+00.00	19+10.48	RT	100	20
6+89.75	14+78.05	LT	100	8
RAMP B IL 96				
2+38.66	23+26.74	RT	100	21
4+71.03	11+37.18	LT	100	7
RAMP C IL 96				
0+00.00	19+10.46	RT	100	20
6+89.74	14+78.03	LT	100	8
RAMP D IL 96				
2+38.66	23+31.22	RT	100	21
4+79.42	11+41.61	LT	100	7
TOTAL				590

PRISMATIC CURB REFLECTORS

78200300

STATION	SIDE	EACH
IL 57		
43+15.5	RT	3
44+06.6	RT	3
44+10.0	RT	10
56+50.7	RT	3
57+45.7	RT	3
57+45.0	RT	10
IL 96		
43+60.0	LT	10
43+84.0	RT	3
44+78.4	RT	6
55+21.7	LT	6
56+16.0	LT	3
56+40.0	RT	10
TOTAL		70

STRIPING SCHEDULE

STATION TO STATION		SIDE	DESCRIPTION	X7800620 URETHANE PAVEMENT MARKING 5" WHITE FOOT	X7800620 URETHANE PAVEMENT MARKING 5" YELLOW FOOT	X7800630 URETHANE PAVEMENT MARKING 6" WHITE FOOT	78004200 PREFORMED PLASTIC, TYPE B - INLAID LETTERS SYMBOLS SQ FT	78004220 PREFORMED PLASTIC, TYPE B - INLAID 5" WHITE FOOT	78004230 PREFORMED PLASTIC, TYPE B - INLAID 6" WHITE FOOT	78004280 PREFORMED PLASTIC, TYPE B - INLAID 8" WHITE FOOT	78004250 PREFORMED PLASTIC, TYPE B - INLAID 12" WHITE FOOT	78004250 PREFORMED PLASTIC, TYPE B - INLAID 12" YELLOW FOOT	78004280 PREFORMED PLASTIC, TYPE B - INLAID 24" WHITE FOOT
FAI 172													
16+40.03	285+95.95	LT IS	EDGE LINE		26955.9								
0+00.00	197+82.00	LT IS	EDGE LINE		19782.0								
30+87.58	75+99.00	LT IS	EDGE LINE		4511.4								
76+00.00	285+95.95	RT IS	EDGE LINE		20996.0								
0+00.00	197+82.00	RT IS	EDGE LINE		19782.0								
30+87.58	79+00.00	RT IS	EDGE LINE		4812.4								
16+40.03	91+66.22	LT OS	EDGE LINE	7526.2									
91+66.22	94+16.51	LT OS	CHANNELIZATION						64.0				
94+16.51	96+81.12	LT OS	CHANNELIZATION							264.6			
96+81.12	115+69.01	LT OS	EDGE LINE	1887.9									
115+69.01	119+43.66	LT OS	CHANNELIZATION							374.7	204.0		
122+25.00	285+95.95	LT OS	EDGE LINE	16371.0									
0+00.00	197+82.00	LT OS	EDGE LINE	19782.0									
30+87.58	33+74.94	LT OS	EDGE LINE	287.4									
41+24.36	45+37.19	LT OS	CHANNELIZATION							412.8			
45+37.19	68+65.00	LT OS	EDGE LINE	2327.8									
68+65.00	72+37.51	LT OS	CHANNELIZATION							372.5	208.0		
72+37.51	75+24.02	LT OS	CHANNELIZATION						72.0				
75+24.02	75+99.00	LT OS	EDGE LINE	75.0									
76+00.00	92+43.71	RT OS	EDGE LINE	1643.7									
92+43.71	95+24.80	RT OS	CHANNELIZATION						72.0				
95+24.80	99+25.13	RT OS	CHANNELIZATION							400.3	218.0		
99+25.13	116+14.48	RT OS	EDGE LINE	1689.4									
116+14.48	120+24.58	RT OS	CHANNELIZATION							410.1			
127+74.79	285+95.95	RT OS	EDGE LINE	15821.2									
0+00.00	197+82.00	RT OS	EDGE LINE	19782.0									
30+87.58	37+00.33	RT OS	EDGE LINE	612.8									
39+84.49	43+62.86	RT OS	CHANNELIZATION							378.4	207.0		
43+62.86	66+76.11	RT OS	EDGE LINE	2313.3									
66+76.11	70+85.55	RT OS	CHANNELIZATION							409.4			
78+25.08	79+00.00	RT OS	EDGE LINE	74.9									
16+40.03	285+95.95	LT CL	SKIP-DASH					6740.0					
0+00.00	197+82.00	LT CL	SKIP-DASH					4950.0					
30+87.58	75+99.00	LT CL	SKIP-DASH					1130.0					
76+00.00	285+95.95	RT CL	SKIP-DASH					5250.0					
0+00.00	197+82.00	RT CL	SKIP-DASH					4950.0					
30+87.58	79+00.00	RT CL	SKIP-DASH					1210.0					
SUB-TOTALS				90194.3	96839.7	0.0	0.0	24230.0	208.0	3022.8	837.0	0.0	0.0

FILE NAME = c:\pw_work\PWIDOT\LAUGHLINRL\d0182983\009-D672A09-sht-schedule0.dgn	USER NAME = laughlinrl	DESIGNED -	REVISED -
		DRAWN -	REVISED -
	PLOT SCALE = 100.0002 ' / IN.	CHECKED -	REVISED -
	PLOT DATE = Feb-01-2010 09:34:03AM	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES

SCALE: none | SHEET NO. 9 OF 18 SHEETS | STA. | TO STA.

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
172	1-(1,2,3,4,5)RS	ADAMS	165	17
		CONTRACT NO. 72A09		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

STRIPING SCHEDULE

STATION TO STATION	SIDE	DESCRIPTION	X7800620 URETHANE PAVEMENT MARKING 5" WHITE FOOT	X7800620 URETHANE PAVEMENT MARKING 5" YELLOW FOOT	X7800630 URETHANE PAVEMENT MARKING 6" WHITE FOOT	78004200 PREFORMED PLASTIC, TYPE B - INLAID LETTERS SYMBOLS SQ FT	78004220 PREFORMED PLASTIC, TYPE B - INLAID 5" WHITE FOOT	78004230 PREFORMED PLASTIC, TYPE B - INLAID 6" WHITE FOOT	78004280 PREFORMED PLASTIC, TYPE B - INLAID 8" WHITE FOOT	78004250 PREFORMED PLASTIC, TYPE B - INLAID 12" WHITE FOOT	78004250 PREFORMED PLASTIC, TYPE B - INLAID 12" YELLOW FOOT	78004280 PREFORMED PLASTIC, TYPE B - INLAID 24" WHITE FOOT
RAMP A IL 57												
0+00.00 27+39.94	RT	EDGE LINE	2739.9									
27+39.94 28+36.94	RT	EDGE LINE	192.0									
2+74.97 6+65.05	LT	CHANNELIZATION							390.1			
6+65.05 27+58.94	LT	EDGE LINE		2093.9								
27+58.94 28+36.94	LT	EDGE LINE		88.0								
25+85.00	LT	WRONG WAY ARROW				24.3						
27+10.00	LT	WRONG WAY ARROW				24.3						
27+92.76 28+36.94	LT & RT	CHANNELIZATION							210.0	85.0		36.0
RAMP B IL 57												
0+23.00 0+54.61	LT & RT	CHANNELIZATION							132.0	86.0		
0+23.00 0+78.00	LT	EDGE LINE		63.0								
0+78.00 15+08.12	LT	EDGE LINE		1430.1								
15+08.12 19+16.73	LT	CHANNELIZATION							408.6			
0+23.00 1+34.08	RT	EDGE LINE	184.0									
1+34.08 26+66.76	RT	EDGE LINE	2532.7									
RAMP C IL 57												
0+00.00 25+22.58	RT	EDGE LINE	2522.6									
25+22.58 26+18.90	RT	EDGE LINE	189.0									
2+80.88 6+56.12	LT	CHANNELIZATION							375.2			
6+56.12 25+42.59	LT	EDGE LINE		1886.5								
25+42.59 26+18.90	LT	EDGE LINE		86.0								
23+70.00	LT	WRONG WAY ARROW				24.3						
24+95.00	LT	WRONG WAY ARROW				24.3						
25+75.70 26+18.90	LT & RT	CHANNELIZATION							203.0	82.0		36.0
RAMP D IL 57												
0+23.00 0+61.51	LT & RT	CHANNELIZATION							199.0	133.0		
0+23.00 0+77.11	LT	EDGE LINE		62.0								
0+77.11 27+52.99	LT	EDGE LINE		2675.9								
27+52.99 30+24.72	LT	CHANNELIZATION							271.7			
0+23.00 1+43.58	RT	EDGE LINE	182.0									
1+43.58 32+79.62	RT	EDGE LINE	3136.0									
RAMP A IL 96												
0+00.00 20+07.55	RT	EDGE LINE	2007.6									
20+07.55 21+30.14	RT	EDGE LINE	202.0									
2+83.71 6+62.40	LT	CHANNELIZATION							378.7			
6+62.40 20+72.02	LT	EDGE LINE		1409.6								
20+72.02 21+30.14	LT	EDGE LINE		65.0								
18+80.00	LT	WRONG WAY ARROW				24.3						
20+05.00	LT	WRONG WAY ARROW				24.3						
20+90.58 21+30.14	LT & RT	CHANNELIZATION							161.0	91.0		36.0
RAMP B IL 96												
0+23.35 1+04.46	RT	EDGE LINE	141.0									
1+04.46 23+26.74	RT	EDGE LINE	2222.3									
0+23.35 1+07.70	LT	EDGE LINE		91.0								
1+07.70 11+69.12	LT	EDGE LINE		1061.4								
11+69.12 15+74.13	LT	CHANNELIZATION							405.0			
RAMP C IL 96												
0+00.00 20+07.53	RT	EDGE LINE	2007.5									
20+07.53 21+30.12	RT	EDGE LINE	202.0									
2+80.57 6+62.38	LT	CHANNELIZATION							381.8			
6+62.38 20+72.12	LT	EDGE LINE		1409.7								
20+72.12 21+30.12	LT	EDGE LINE		65.0								
18+80.00	LT	WRONG WAY ARROW				24.3						
20+05.00	LT	WRONG WAY ARROW				24.3						
20+90.56 21+30.12	LT & RT	CHANNELIZATION							161.0	90.0		36.0
RAMP D IL 96												
0+23.35 1+04.46	RT	EDGE LINE	141.0									
1+04.46 23+31.22	RT	EDGE LINE	2226.8									
0+23.35 1+04.67	LT	EDGE LINE		88.0								
1+04.67 11+73.58	LT	EDGE LINE		1068.9								
11+73.58 15+81.97	LT	CHANNELIZATION							408.4			
SUB-TOTALS			20828.4	13644.1	0.0	194.4	0.0	0.0	4085.6	567.0	0.0	144.0

FILE NAME = c:\pw_work\PWIDOT\LAUGHLINRL\d0182983\009-D672A09-sht-schedule0.dgn	USER NAME = laughlinrl	DESIGNED -	REVISED -
		DRAWN -	REVISED -
	PLOT SCALE = 100.0002 ' / IN.	CHECKED -	REVISED -
	PLOT DATE = Feb-01-2010 09:34:06AM	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES

SCALE: none | SHEET NO. 10 OF 18 SHEETS | STA. | TO STA.

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
172	1-(1,2,3,4,5)RS	ADAMS	165	18
		CONTRACT NO. 72A09		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

STRIPING SCHEDULE

STATION TO STATION		SIDE	DESCRIPTION	X7800620 URETHANE PAVEMENT MARKING 5" WHITE FOOT	X7800620 URETHANE PAVEMENT MARKING 5" YELLOW FOOT	X7800630 URETHANE PAVEMENT MARKING 6" WHITE FOOT	78004200 PREFORMED PLASTIC, TYPE B - INLAID LETTERS SYMBOLS SQ FT	78004220 PREFORMED PLASTIC, TYPE B - INLAID 5" WHITE FOOT	78004230 PREFORMED PLASTIC, TYPE B - INLAID 6" WHITE FOOT	78004280 PREFORMED PLASTIC, TYPE B - INLAID 8" WHITE FOOT	78004250 PREFORMED PLASTIC, TYPE B - INLAID 12" WHITE FOOT	78004250 PREFORMED PLASTIC, TYPE B - INLAID 12" YELLOW FOOT	78004280 PREFORMED PLASTIC, TYPE B - INLAID 24" WHITE FOOT
IL 57													
30+15.00	59+35.00	LT	EDGE LINE	2920.0									
30+15.00	35+09.21	CL	NO PASSING		988.4								
35+09.21	43+23.50	LT	EDGE LINE		814.3								
35+09.21	43+23.50	RT	EDGE LINE		814.3								
43+99.60	45+99.60	LT	TURN LANE			200.0							
45+99.60	48+97.68	LT	SKIP-DASH			76.0							
43+99.60	45+99.60	LT	TURN ARROWS (3)				46.8						
43+99.60	56+59.00	LT	EDGE LINE		1259.4								
43+99.60	56+59.00	RT	EDGE LINE		1259.4								
57+37.72	59+35.00	LT	TURN LANE			197.3							
57+37.72	59+35.00	LT	TURN ARROWS (2)				31.2						
57+38.72	59+35.00	LT	EDGE LINE		196.3								
57+38.72	59+35.00	RT	EDGE LINE		196.3								
30+15.00	42+01.85	RT	EDGE LINE	1186.9									
37+21.85	39+61.85	RT	SKIP-DASH			60.0							
39+61.85	42+48.80	RT	TURN LANE							287.0			
39+61.85	42+48.80	RT	TURN ARROWS (3)				46.8						
43+47.64	43+56.68	RT	EDGE LINE	9.0									
43+41.76	43+62.40	RT	CHANNELIZATION									21.0	
45+39.37	55+36.39	RT	EDGE LINE	997.0									
56+86.02	56+92.44	RT	EDGE LINE	6.4									
56+80.02	56+98.32	RT	CHANNELIZATION									20.0	
58+81.04	59+35.00	RT	EDGE LINE	54.0									
IL 96													
32+00.00	36+66.64	LT	EDGE LINE	466.6									
37+33.49	42+42.41	LT	EDGE LINE	508.9									
44+02.18	55+80.93	LT	EDGE LINE	1178.8									
32+00.00	36+76.00	LT	EDGE LINE		476.0								
32+00.00	36+76.00	RT	EDGE LINE		476.0								
37+25.00	43+91.00	LT	EDGE LINE		666.0								
37+25.00	43+91.00	RT	EDGE LINE		666.0								
44+78.39	46+33.95	LT	TURN LANE			155.6							
44+78.39	46+33.95	LT	TURN ARROWS (2)				31.2						
46+33.95	48+63.48	LT	SKIP-DASH			58.0							
44+71.00	55+29.00	LT	EDGE LINE		1058.0								
44+71.00	55+29.00	RT	EDGE LINE		1058.0								
51+31.52	53+61.05	RT	SKIP-DASH			58.0							
53+61.05	55+21.66	RT	TURN ARROWS (2)				31.2						
53+61.05	55+21.66	RT	TURN LANE			160.6							
56+09.00	57+24.32	LT	EDGE LINE		115.3								
56+09.00	57+57.60	RT	EDGE LINE		148.6								
32+00.00	36+28.47	RT	EDGE LINE	428.5									
37+44.48	42+75.67	RT	EDGE LINE	531.2									
44+19.12	55+97.83	RT	EDGE LINE	1178.7									
SUB-TOTALS				9466.0	10192.3	965.4	187.2	0.0	0.0	287.0	0.0	41.0	0.0
TOTALS				120488.7	120676.1	965.4	381.6	24230.0	208.0	7395.4	1404.0	41.0	144.0
USE				241165		966	382	24230	208	7396	1445		144

FILE NAME = c:\pw_work\PWIDOT\LAUGHLINRL\d0182983\009-D672A09-sht-scheduleQ.dgn	USER NAME = laughlinrl	DESIGNED -	REVISED -
		DRAWN -	REVISED -
	PLOT SCALE = 100.0002 ' / IN.	CHECKED -	REVISED -
	PLOT DATE = Feb-01-2010 09:34:08AM	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES

SCALE: none | SHEET NO. 11 OF 18 SHEETS | STA. | TO STA.

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
172	1-(1,2,3,4,5)RS	ADAMS	165	19
		CONTRACT NO. 72A09		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

PAVEMENT PATCHING CLASS A SCHEDULE

PATCH NUMBER	STATION	LOCATION	LENGTH	WIDTH	44200541 TYPE II 9 INCH	44200545 TYPE III 9 INCH	44200547 TYPE IV 9 INCH	44213200 SAW CUTS	44213000 PATCHING REINFORCEMENT	Z0075300 TIE BARS
					SQ YD			FOOT	SQ YD	EACH
FAI 172 (NORTHBOUND)										
1	79+50	DL	5.0	12	6.7			58.0	6.7	
2	80+18	DL	5.0	12	6.7			58.0	6.7	
3	102+18	DL	5.0	12	6.7			58.0	6.7	
4	107+81	DL	5.0	12	6.7			58.0	6.7	
5	108+53	DL	5.0	12	6.7			58.0	6.7	
6	110+08	DL	5.4	12	7.2			58.8	7.2	
7	110+57	DL	6.0	12	8.0			60.0	8.0	
8	110+95	DL	13.1	12		17.5		74.2	17.5	
9	111+43	DL	14.3	12		19.1		76.6	19.1	
10	131+10	DL	19.6	12			26.1	87.2	26.1	
11	147+67	DL	53.1	12			70.8	154.2	70.8	26
12	148+37	DL	29.4	12			39.2	106.8	39.2	14
13	149+88	DL	24.2	12			32.3	96.4	32.3	11
14	153+50	DL	26.5	12			35.3	101.0	35.3	12
15	153+79	DL	12.4	12		16.5		72.8	16.5	
16	154+08	DL	8.1	12	10.8			64.2	10.8	
17	154+16	PL	5.0	12	6.7			58.0	6.7	
18	154+50	PL	5.0	12	6.7			58.0	6.7	
19	158+83	DL	6.0	12	8.0			60.0	8.0	
20	159+10	DL	5.0	12	6.7			58.0	6.7	
21	161+03	DL	5.0	12	6.7			58.0	6.7	
22	164+03	DL	10.0	12	13.3			68.0	13.3	
23	166+10	DL	6.5	12	8.7			61.0	8.7	
24	166+87	DL	7.0	12	9.3			62.0	9.3	
25	168+63	DL	8.0	12	10.7			64.0	10.7	
26	170+82	DL	6.3	12	8.4			60.6	8.4	
27	178+26	DL	7.1	12	9.5			62.2	9.5	
28	178+64	DL	14.8	12		19.7		77.6	19.7	
29	183+15	DL	18.5	12		24.7		85.0	24.7	
30	186+82	DL	13.5	12		18.0		75.0	18.0	
31	214+09	DL	5.4	12	7.2			58.8	7.2	
32	268+53	DL	7.0	12	9.3			62.0	9.3	
STATION EQUATION 285+95.95 BK = 0+00 AH										
33	13+80	DL	5.0	12	6.7			58.0	6.7	
34	18+50	DL	5.5	12	7.3			59.0	7.3	
35	46+50	DL	5.0	12	6.7			58.0	6.7	
36	49+68	DL	5.0	12	6.7			58.0	6.7	
37	60+10	DL	7.5	12	10.0			63.0	10.0	
38	95+90	DL	5.0	12	6.7			58.0	6.7	
39	100+58	DL	5.0	12	6.7			58.0	6.7	
40	103+13	DL	6.5	12	8.7			61.0	8.7	
41	103+80	DL	5.0	12	6.7			58.0	6.7	
42	106+60	DL	5.0	12	6.7			58.0	6.7	
43	107+64	DL	5.0	12	6.7			58.0	6.7	
44	108+08	DL	5.0	12	6.7			58.0	6.7	
45	112+08	DL	6.0	12	8.0			60.0	8.0	
46	116+41	DL	5.0	12	6.7			58.0	6.7	
47	116+86	DL	5.5	12	7.3			59.0	7.3	
48	119+80	DL	5.5	12	7.3			59.0	7.3	
49	122+10	DL	5.0	12	6.7			58.0	6.7	
50	122+40	DL	5.0	12	6.7			58.0	6.7	
51	123+28	DL	13.4	12		17.9		74.8	17.9	
52	172+75	DL	6.0	12	8.0			60.0	8.0	
53	176+83	DL	8.6	12	11.5			65.2	11.5	
54	188+85	DL	8.5	12	11.3			65.0	11.3	
55	189+28	DL	5.0	12	6.7			58.0	6.7	
56	189+47	DL	5.0	12	6.7			58.0	6.7	
57	194+14	DL	10.1	12	13.5			68.2	13.5	
58	194+55	DL	5.0	12	6.7			58.0	6.7	
59	194+82	DL	5.6	12	7.5			59.2	7.5	
60	196+92	DL	6.4	12	8.5			60.8	8.5	
61	197+34	DL	5.0	12	6.7			58.0	6.7	
STATION EQUATION 197+82 BK = 30+87.58 AH										
62	31+00	DL	5.0	12	6.7			58.0	6.7	
63	32+17	DL	5.0	12	6.7			58.0	6.7	
64	32+74	DL	5.0	12	6.7			58.0	6.7	
65	33+18	DL	5.0	12	6.7			58.0	6.7	
66	37+26	DL	6.8	12	9.1			61.6	9.1	
67	39+86	DL	5.0	12	6.7			58.0	6.7	
68	42+65	DL	8.1	12	10.8			64.2	10.8	
69	43+01	DL	7.3	12	9.7			62.6	9.7	
70	55+94	DL	6.2	12	8.3			60.4	8.3	
71	65+89	DL	22.5	12			30.0	93.0	30.0	10
TOTALS					458.2	133.4	233.7	4644.4	825.3	73
USE					459	134	234	4645	826	73

PAVEMENT PATCHING CLASS A SCHEDULE

PATCH NUMBER	STATION	LOCATION	LENGTH	WIDTH	44200529 TYPE II 8 INCH	44200541 TYPE II 9 INCH	44200545 TYPE III 9 INCH	44200547 TYPE IV 9 INCH	44213200 SAW CUTS	44213000 PATCHING REINFORCEMENT	Z0075300 TIE BARS
					SQ YD				FOOT	SQ YD	EACH
FAI 172 (SOUTHBOUND)											
1	71+74	DL	5.0	12	6.7				58.0	6.7	
2	67+15	DL	5.0	12	6.7				58.0	6.7	
3	65+79	DL	12.0	12			16.0		72.0	16.0	
4	35+55	DL	5.0	12		6.7			58.0	6.7	
5	35+40	DL	5.0	12		6.7			58.0	6.7	
6	34+93	DL	5.0	12		6.7			58.0	6.7	
7	34+30	DL	10.5	12		14.0			69.0	14.0	
STATION EQUATION 197+82 BK = 30+87.58 AH											
8	155+95	DL	5.0	12		6.7			58.0	6.7	
9	154+00	DL	15.0	12			20.0		78.0	20.0	
10	140+45	DL	5.0	12		6.7			58.0	6.7	
11	139+65	DL	5.0	12		6.7			58.0	6.7	
12	138+03	DL	5.0	12		6.7			58.0	6.7	
13	135+64	DL	5.0	12		6.7			58.0	6.7	
14	134+57	DL	5.0	12		6.7			58.0	6.7	
15	133+20	DL	5.0	12		6.7			58.0	6.7	
16	131+66	DL	5.0	12		6.7			58.0	6.7	
17	119+05	DL	23.0	12				30.7	94.0	30.7	11
18	117+17	DL	5.0	12		6.7			58.0	6.7	
19	117+00	DL	7.0	12		9.3			62.0	9.3	
20	115+90	DL	5.0	12		6.7			58.0	6.7	
21	70+05	DL	5.0	12		6.7			58.0	6.7	
22	3+00	DL	5.0	12		6.7			58.0	6.7	
23	0+11	DL	5.0	12		6.7			58.0	6.7	
STATION EQUATION 0+00 BK = 285+95.95 AH											
24	227+05	DL	7.0	12		9.3			62.0	9.3	
25	192+17	DL	5.0	12		6.7			58.0	6.7	
26	182+80	DL	5.0	12		6.7			58.0	6.7	
27	169+66	DL	5.0	12		6.7			58.0	6.7	
28	168+44	DL	5.0	12		6.7			58.0	6.7	
29	165+28	DL	5.0			0.0					
30	164+32	DL	15.5	12			20.7		79.0	20.7	
31	163+80	DL	10.0	12		13.3			68.0	13.3	
32	163+55	DL	12.2	12			16.3		72.4	16.3	
33	163+10	DL	5.0			0.0					
34	161+20	DL	5.0	12		6.7			58.0	6.7	
35	159+87	DL	6.5	12		8.7			61.0	8.7	
36	159+47	DL	14.4	12			19.2		76.8	19.2	
37	156+88	DL	7.0	12		9.3			62.0	9.3	
38	156+25	DL	22.1	12				29.5	92.2	29.5	10
39	148+63	DL	5.0	12		6.7			58.0	6.7	
40	147+83	DL	6.0	12		8.0			60.0	8.0	
41	144+25	DL	53.0	12				70.7	154.0	70.7	26
42	139+17	DL	6.0	12		8.0			60.0	8.0	
43	126+50	DL	5.0	12		6.7			58.0	6.7	
44	97+11	DL	5.5	12		7.3			59.0	7.3	
45	94+29	DL	5.0	12		6.7			58.0	6.7	
46	93+79	DL	13.0	12			17.3		74.0	17.3	
47	92+11	DL	5.0	12		6.7			58.0	6.7	
48	90+75	DL	5.0	12		6.7			58.0	6.7	
49	90+57	DL	5.5	12		7.3			59.0	7.3	
50	90+00	DL	5.0	12		6.7			58.0	6.7	
51	87+80	DL	5.0	12		6.7			58.0	6.7	
52	84+80	DL	5.0	12		6.7			58.0	6.7	
53	83+56	DL	5.0	12		6.7			58.0	6.7	
54	83+22	DL	5.0	12		6.7			58.0	6.7	
55	82+98	DL	5.0	12		6.7			58.0	6.7	
56	81+87	DL	5.0	12		6.7			58.0	6.7	
57	80+95	DL	14.5	12			19.3		77.0	19.3	
58	80+26	DL	6.0	12		8.0			60.0	8.0	
59	80+00	DL	5.0	12		6.7			58.0	6.7	
60	79+20	PL	6.0	12		8.0			60.0	8.0	
61	79+20	DL	14.2	12			18.9		76.4	18.9	
62	78+80	DL	5.3	12		7.1			58.6	7.1	
63	78+35	DL	16.0	12			21.3		80.0	21.3	
64	76+54	DL	5.0	12		6.7			58.0	6.7	
65	74+48	DL	5.0	12		6.7			58.0	6.7	
66	74+30	DL	5.0	12		6.7			58.0	6.7	
67	74+00	DL	5.0	12		6.7			58.0	6.7	
68	72+91	DL	5.4	12		7.2			58.8	7.2	
69	72+41	DL	5.0	12		6.7			58.0	6.7	
70	70+62	DL	5.0	12		6.7			58.0	6.7	
71	70+40	DL	5.6	12		7.5			59.2	7.5	
SUB-TOTALS					13.4	400.3	169.0	130.9	4380.4	713.6	47

PAVEMENT PATCHING CLASS A SCHEDULE

PATCH NUMBER	STATION	LOCATION	LENGTH	WIDTH	44200529 TYPE II 8 INCH	44200541 TYPE II 9 INCH	44200545 TYPE III 9 INCH	44200547 TYPE IV 9 INCH	44213200 SAW CUTS	44213000 PATCHING REINFORCEMENT	Z0075300 TIE BARS
					SQ YD				FOOT	SQ YD	EACH
FAI 172 (SOUTHBOUND)											
72	70+30	DL	5.0	12		6.7			58.0	6.7	
73	70+10	DL	5.0	12		6.7			58.0	6.7	
74	69+84	DL	7.5	12		10.0			63.0	10.0	
75	69+57	DL	5.4	12		7.2			58.8	7.2	
76	55+00	DL	5.0	12		6.7			58.0	6.7	
77	53+42	DL	5.0	12		6.7			58.0	6.7	
78	53+31	DL	5.0	12		6.7			58.0	6.7	
79	49+15	DL	5.0	12		6.7			58.0	6.7	
80	48+55	DL	12.6	12			16.8		73.2	16.8	
81	48+35	DL	5.0	12		6.7			58.0	6.7	
82	48+20	DL	5.0	12		6.7			58.0	6.7	
83	48+00	DL	5.0	12		6.7			58.0	6.7	
84	46+92	DL	5.0	12		6.7			58.0	6.7	
85	39+95	DL	5.0	12		6.7			58.0	6.7	
86	36+68	DL	5.0	12		6.7			58.0	6.7	
87	35+40	DL	5.0	12		6.7			58.0	6.7	
88	34+64	DL	5.0	12		6.7			58.0	6.7	
89	18+41	DL	6.0	12		8.0			60.0	8.0	
90	16+40	DL	5.0	12		6.7			58.0	6.7	
91	16+23	DL	5.5	12		7.3			59.0	7.3	
TOTALS					13.4	533.3	185.8	130.9	5564.4	863.4	47
USE					14	534	186	131	5565	864	47

PAVEMENT PATCHING CLASS A SCHEDULE

PATCH NUMBER	STATION	LOCATION	LENGTH	WIDTH	44200529 TYPE II 8 INCH	44200533 TYPE III 8 INCH	44200535 TYPE IV 8 INCH	44213200 SAW CUTS	44213000 PATCHING REINFORCEMENT	Z0075300 TIE BARS
					SQ YD			FOOT	SQ YD	EACH
RAMPS (IL 57 INTERCHANGE)										
1	24+94	RAMP D	87.0	16			154.7	238.0	154.7	43
2	26+56	RAMP D	6.5	14	10.1			69.0	10.1	
3	26+96	RAMP D	17.0	13		24.6		86.0	24.6	
TOTALS					10.1	24.6	154.7	393.0	189.4	43
USE					11	25	155	393	190	43

FILE NAME = c:\pw_work\PWIDOT\LAUGHLINRL\d0182983\009-D672A09-sht-scheduleQ.dgn	USER NAME = laughlinrl	DESIGNED -	REVISED -
		DRAWN -	REVISED -
	PLOT SCALE = 100.0002 ' / IN.	CHECKED -	REVISED -
	PLOT DATE = Feb-01-2010 09:34:17AM	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES

SCALE: none | SHEET NO. 14 OF 18 SHEETS | STA. | TO STA.

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
172	1-(1,2,3,4,5)RS	ADAMS	165	22
		CONTRACT NO. 72A09		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

WIDE FLANGE BEAM TERMINAL JOINT REPAIR SCHEDULE

STATION	SIDE	LENGTH	WIDTH	20201200 REM & DISP UNSUITABLE MATERIAL CU YD	31200100 STABILIZED SUB-BASE 4" SQ YD	44200541 CLASS A PATCH TYPE II 9 INCH SQ YD	44213200 SAW CUTS FOOT	44213000 PATCHING REINFORCEMENT SQ YD	50500505 STUD SHEAR CONNECTORS EACH	Z0017202 DOWEL BARS 1 1/2" EACH
FAI 172										
118+22	RT	10	12	0.7	6.7	13.3	12.0	13.3	11	11
118+22	RT	10	12	0.7	6.7	13.3	12.0	13.3	11	11
118+22	LT	10	12	0.7	6.7	13.3	12.0	13.3	11	11
118+22	LT	10	12	0.7	6.7	13.3	12.0	13.3	11	11
122+92	LT	10	12	0.7	6.7	13.3	12.0	13.3	11	11
122+92	LT	10	12	0.7	6.7	13.3	12.0	13.3	11	11
146+74	RT	10	12	0.7	6.7	13.3	12.0	13.3	11	11
146+74	RT	10	12	0.7	6.7	13.3	12.0	13.3	11	11
152+71	RT	10	12	0.7	6.7	13.3	12.0	13.3	11	11
152+71	RT	10	12	0.7	6.7	13.3	12.0	13.3	11	11
153+44	LT	10	12	0.7	6.7	13.3	12.0	13.3	11	11
153+44	LT	10	12	0.7	6.7	13.3	12.0	13.3	11	11
178+50	RT	10	12	0.7	6.7	13.3	12.0	13.3	11	11
178+50	RT	10	12	0.7	6.7	13.3	12.0	13.3	11	11
182+93	LT	10	12	0.7	6.7	13.3	12.0	13.3	11	11
182+93	LT	10	12	0.7	6.7	13.3	12.0	13.3	11	11
183+93	RT	10	12	0.7	6.7	13.3	12.0	13.3	11	11
183+93	RT	10	12	0.7	6.7	13.3	12.0	13.3	11	11
TOTALS				13.3	120.0	240.0	180.0	240.0	198	198
USE				14	120	240	180	240	198	198

PAVEMENT PATCHING CLASS B SCHEDULE

PATCH NUMBER	STATION	LENGTH	WIDTH	44200934 TYPE II 8 INCH	44200942 TYPE III 8 INCH	44200944 TYPE IV 8 INCH	44201294 CLASS B PATCH EXPANSION JOINT	44201296 DEFORMED BARS EXPANSION JOINT	Z0017202 DOWEL BARS 1 1/2"	44213200 SAW CUTS	44213100 PAVEMENT FABRIC
				SQ YD			FOOT	EACH		FOOT	SQ YD
FAI 172 NORTHBOUND											
	122+62	12.0	12		16.0		16.0	14	14	60.0	16.0
	122+62	12.0	12		16.0		16.0	14	14	60.0	16.0
FAI 172 SOUTHBOUND											
	147+52	12.0	12		16.0		16.0	14	14	60.0	16.0
	147+52	12.0	12		16.0		16.0	14	14	60.0	16.0
	177+72	12.0	12		16.0		16.0	14	14	60.0	16.0
	177+72	12.0	12		16.0		16.0	14	14	60.0	16.0
IL 57 INTERCHANGE											
RAMP A											
	4+00	12.0	16		21.3		16.0	14	14	68.0	21.3
B1	4+13	6.0	16	10.7					28	50.0	
B2	5+20	6.0	16	10.7					28	50.0	
B3	6+80	6.0	16	10.7					28	50.0	
B4	13+98	6.0	16	10.7					28	50.0	
B5	14+48	6.0	16	10.7					28	50.0	
B6	23+35	6.0	16	10.7					28	50.0	
B7	27+23	18.0	16			32.0			28	86.0	32.0
RAMP B											
B8	1+67	6.0	16	10.7					28	50.0	
B9	2+15	6.0	16	10.7					28	50.0	
B10	3+18	6.0	16	10.7					28	50.0	
B11	5+75	6.0	16	10.7					28	50.0	
B12	6+80	6.0	16	10.7					28	50.0	
B13	8+20	6.0	16	10.7					28	50.0	
B14	8+80	6.0	16	10.7					28	50.0	
B15	10+36	6.0	16	10.7					28	50.0	
B16	10+75	6.0	16	10.7					28	50.0	
B17	12+78	6.0	16	10.7					28	50.0	
B18	13+13	6.0	16	10.7					28	50.0	
B19	13+77	6.0	16	10.7					28	50.0	
B20	14+30	6.0	16	10.7					28	50.0	
B21	14+77	6.0	16	10.7					28	50.0	
B22	17+50	6.0	16	10.7					28	50.0	
	18+00	12.0	16		21.3		16.0	14	14	68.0	21.3
RAMP C											
	3+64	12.0	16		21.3		16.0	14	14	68.0	21.3
B23	4+47	6.0	16	10.7					28	50.0	
B24	7+16	6.0	16	10.7					28	50.0	
B25	8+37	6.0	16	10.7					28	50.0	
B26	11+50	6.0	16	10.7					28	50.0	
B27	25+50	6.0	16	10.7					28	50.0	
RAMP D											
B28	1+36	6.0	16	10.7					28	50.0	
B29	2+30	6.0	16	10.7					28	50.0	
B30	5+70	6.0	16	10.7					28	50.0	
B31	6+20	6.0	16	10.7					28	50.0	
B32	6+80	6.0	16	10.7					28	50.0	
B33	7+15	6.0	16	10.7					28	50.0	
B34	10+51	6.0	16	10.7					28	50.0	
B35	11+21	6.0	16	10.7					28	50.0	
B36	12+30	6.0	16	10.7					28	50.0	
B37	15+30	11.0	16		19.6				28	65.0	19.6
B38	16+69	6.0	16	10.7					28	50.0	
B39	17+03	8.8	16		15.6				28	58.4	15.6
B40	18+00	6.0	16	10.7					28	50.0	
B41	20+45	11.0	16		19.6				28	65.0	19.6
B42	21+32	6.0	16	10.7					28	50.0	
B43	23+10	14.0	16		24.9		16.0	14	14	74.0	24.9
SUB-TOTALS				406.6	239.6	32.0	160.0	140	1316	2812.4	271.6

PAVEMENT PATCHING CLASS B SCHEDULE

PATCH NUMBER	STATION	LENGTH	WIDTH	44200934 TYPE II 8 INCH	44200942 TYPE III 8 INCH	44200944 TYPE IV 8 INCH	44201294 CLASS B PATCH EXPANSION JOINT	44201296 DEFORMED BARS EXPANSION JOINT	Z0017202 DOWEL BARS 1 1/2"	44213200 SAW CUTS	44213100 PAVEMENT FABRIC
				SQ YD			FOOT	EACH		FOOT	SQ YD
IL 96 INTERCHANGE											
RAMP A											
B40	6+62	6.0	16	10.7			16.0	14	14	50.0	
B41	6+74	6.0	16	10.7					28	50.0	
B42	8+74	6.0	16	10.7					28	50.0	
B43	10+07	6.0	16	10.7					28	50.0	
B44	11+36	6.0	16	10.7					28	50.0	
B45	11+71	6.0	16	10.7					28	50.0	
B46	11+87	6.0	16	10.7					28	50.0	
B47	12+29	6.0	16	10.7					28	50.0	
B48	13+22	6.0	16	10.7					28	50.0	
B49	13+66	6.0	16	10.7					28	50.0	
B50	14+32	6.0	16	10.7					28	50.0	
B51	16+09	6.0	16	10.7					28	50.0	
B52	18+24	6.0	16	10.7					28	50.0	
RAMP B											
B53	2+50	6.0	16	10.7					28	50.0	
B54	2+87	6.0	16	10.7					28	50.0	
B55	6+58	6.0	16	10.7					28	50.0	
B56	8+00	6.0	16	10.7					28	50.0	
B57	9+94	6.0	16	10.7					28	50.0	
B58	11+57	6.0	16	10.7					28	50.0	
B59	12+09	6.0	16	10.7					28	50.0	
B60	12+97	6.0	16	10.7					28	50.0	
B61	13+31	13.0	16		23.1				28	71.0	23.1
B62	13+67	25.0	16			44.4	16.0	14	14	107.0	44.4
RAMP C											
B63	6+63	6.0	16	10.7			16.0	14	14	50.0	
B64	7+46	6.0	16	10.7					28	50.0	
RAMP D											
B65	5+79	6.0	16	10.7					28	50.0	
B66	8+97	6.0	16	10.7					28	50.0	
B67	10+36	6.0	16	10.7					28	50.0	
B68	13+32	6.0	16	10.7					28	50.0	
B69	13+80	6.0	16	10.7			16.0	14	14	50.0	
TOTALS				706.2	262.7	76.4	224.0	196	2100	4390.4	339.1
USE				707	263	77	224	196	2100	4391	340

JOINT REPAIR SCHEDULE

STATION TO STATION		DESCRIPTION	Z0033600 LONGITUDINAL JOINT REPAIR FOOT	44300100 AREA REFLECTIVE CRACK CONTROL TREATMENT SQ YD
FAI 172 (NORTHBOUND)				
78+50	78+70	CENTERLINE	20	9.8
81+25	84+00	CENTERLINE	275	123.1
89+96	90+40	CENTERLINE	44	20.4
92+50	92+55	RIGHT EDGE	5	3.1
93+65	93+95	RIGHT EDGE	30	14.2
176+02	167+14	CENTERLINE	12	6.2
201+56	202+17	CENTERLINE	61	28.0
202+27	202+88	CENTERLINE	61	28.0
202+98	204+02	CENTERLINE	104	47.1
204+12	204+94	CENTERLINE	82	37.3
211+23	211+38	CENTERLINE	15	7.6
241+10	241+14	CENTERLINE	4	2.7
241+35	241+41	CENTERLINE	6	3.6
282+87	282+92	CENTERLINE	5	3.1
STATION EQUATION 285+95.95 BK = 0+00 AH				
6+18	6+48	CENTERLINE	30	14.2
7+88	7+97	CENTERLINE	9	4.9
14+08	14+12	CENTERLINE	4	2.7
32+09	32+50	CENTERLINE	41	19.1
147+37	147+51	CENTERLINE	14	7.1
152+78	152+85	DRIVE LANE	7	4.0
155+54	155+58	CENTERLINE	4	2.7
155+63	155+87	CENTERLINE	24	11.6
156+00	157+72	CENTERLINE	172	77.3
157+97	158+12	CENTERLINE	15	7.6
163+31	168+13	CENTERLINE	482	215.1
169+50	172+75	CENTERLINE	325	145.3
173+22	175+79	CENTERLINE	257	115.1
175+97	176+40	DRIVE LANE	43	20.0
176+02	176+29	CENTERLINE	27	12.9
176+46	178+46	CENTERLINE	200	89.8
176+61	176+82	PASS LANE	21	10.2
178+60	178+89	CENTERLINE	29	13.8
184+14	184+32	PASS LANE	18	8.9
184+25	187+92	CENTERLINE	367	164.0
188+16	188+59	CENTERLINE	43	20.0
189+31	189+45	DRIVE LANE	14	7.1
189+51	189+66	DRIVE LANE	15	7.6
189+72	190+66	PASS LANE	94	42.7
191+41	191+57	DRIVE LANE	16	8.0
192+51	193+60	DRIVE LANE	9	4.9
194+00	194+31	PASS LANE	31	14.7
194+83	194+89	CENTERLINE	6	3.6
196+00	196+19	PASS LANE	19	9.3
196+62	196+71	DRIVE LANE	9	4.9
196+83	197+08	PASS LANE	25	12.0
STATION EQUATION 197+82.00 BK = 30+87.58 AH				
36+89	37+30	CENTERLINE	41	19.1
37+52	38+28	CENTERLINE	76	34.7
37+52	40+31	RIGHT EDGE	279	124.9
39+00	39+19	CENTERLINE	19	9.3
43+88	44+29	CENTERLINE	46	21.3
46+06	46+58	CENTERLINE	52	24.0
64+25	64+50	CENTERLINE	25	12.0
70+40	70+68	CENTERLINE	28	13.3
70+44	78+39	RIGHT EDGE	795	354.2
72+31	74+08	CENTERLINE	177	79.6
74+30	75+35	CENTERLINE	105	47.6
75+72	78+34	CENTERLINE	262	117.3
TOTALS			4999	2272.5
USE			4999	2273

JOINT REPAIR SCHEDULE

STATION TO STATION		DESCRIPTION	Z0033600 LONGITUDINAL JOINT REPAIR FOOT	44300100 AREA REFLECTIVE CRACK CONTROL TREATMENT SQ YD
FAI 172 (SOUTHBOUND)				
75+25	74+62	CENTERLINE	63	28.9
74+70	71+34	RIGHT EDGE	336	150.2
74+46	73+74	CENTERLINE	72	32.9
72+25	71+08	LEFT EDGE	117	52.9
67+78	67+73	CENTERLINE	5	3.1
43+75	43+25	CENTERLINE	50	23.1
43+20	41+91	CENTERLINE	129	58.2
41+61	41+22	CENTERLINE	39	18.2
39+98	39+68	CENTERLINE	30	14.2
40+56	39+74	CENTERLINE	82	37.3
40+00	39+46	RIGHT EDGE	54	24.9
39+64	39+52	CENTERLINE	12	6.2
38+55	37+58	CENTERLINE	97	44.0
38+55	38+37	RIGHT EDGE	18	8.9
38+05	37+94	RIGHT EDGE	11	5.8
37+57	37+52	RIGHT EDGE	5	3.1
37+50	37+44	RIGHT EDGE	6	3.6
37+42	36+86	CENTERLINE	56	25.8
37+03	36+94	RIGHT EDGE	9	4.9
36+73	36+64	RIGHT EDGE	9	4.9
32+60	32+46	CENTERLINE	14	7.1
31+97	31+83	CENTERLINE	14	7.1
STATION EQUATION 30+87.58 AH = 197+82.00 BK				
196+56	196+38	CENTERLINE	18	8.9
196+31	196+23	CENTERLINE	8	4.4
196+08	195+90	CENTERLINE	18	8.9
195+50	195+62	CENTERLINE	12	6.2
195+54	194+89	CENTERLINE	65	29.8
194+97	194+29	CENTERLINE	68	31.1
194+23	194+12	CENTERLINE	11	5.8
194+08	193+84	CENTERLINE	24	11.6
193+52	193+48	CENTERLINE	4	2.7
191+83	191+70	CENTERLINE	13	6.7
191+58	191+39	CENTERLINE	19	9.3
190+62	189+62	CENTERLINE	100	45.3
189+52	188+97	CENTERLINE	55	25.3
188+73	188+58	CENTERLINE	15	7.6
186+57	185+91	CENTERLINE	66	30.2
185+82	185+61	CENTERLINE	21	10.2
185+55	184+13	CENTERLINE	142	64.0
183+59	182+93	CENTERLINE	66	30.2
181+99	181+81	CENTERLINE	18	8.9
163+29	163+04	CENTERLINE	15	7.6
154+61	154+47	CENTERLINE	14	7.1
154+33	154+30	CENTERLINE	3	2.2
154+28	154+08	DRIVE LANE	20	9.8
148+01	147+88	DRIVE LANE	13	6.7
147+91	147+83	CENTERLINE	8	4.4
69+53	69+47	CENTERLINE	6	3.6
STATION EQUATION 0+00 BK = 285+95.95 AH				
284+00	280+68	CENTERLINE	332	148.4
280+62	280+04	CENTERLINE	22	10.7
277+14	277+02	CENTERLINE	12	6.2
276+60	276+45	CENTERLINE	15	7.6
275+58	275+50	CENTERLINE	8	4.4
274+73	274+42	CENTERLINE	31	14.7
270+73	269+93	CENTERLINE	80	36.4
269+67	266+80	CENTERLINE	287	128.4
266+24	265+70	CENTERLINE	54	24.9
244+06	243+92	CENTERLINE	14	7.1
240+68	240+39	DRIVE LANE	29	13.8
240+63	240+39	PASS LANE	23	11.1
240+44	240+39	CENTERLINE	5	3.1
149+76	149+71	CENTERLINE	5	3.1
149+61	148+67	CENTERLINE	94	42.7
148+56	147+87	PASS LANE	69	31.6
TOTALS			3130	1448.0
USE			3130	1448

JOINT REPAIR SCHEDULE

STATION TO STATION		Z0033600 LONGITUDINAL JOINT REPAIR FOOT	44300100 AREA REFLECTIVE CRACK CONTROL TREATMENT SQ YD
IL 57 INTERCHANGE			
RAMP A			
10+00	10+50	50	23.1
11+30	11+42	12	6.2
13+98	14+48	50	23.1
15+57	15+94	37	17.3
19+78	20+00	22	10.7
23+00	24+40	140	63.1
RAMP B			
3+20	3+50	30	14.2
RAMP C			
20+00	20+45	45	20.9
22+00	22+50	50	23.1
RAMP D			
20+06	20+41	35	16.4
23+83	24+28	45	20.9
TOTALS		516	239.1
USE		516	240

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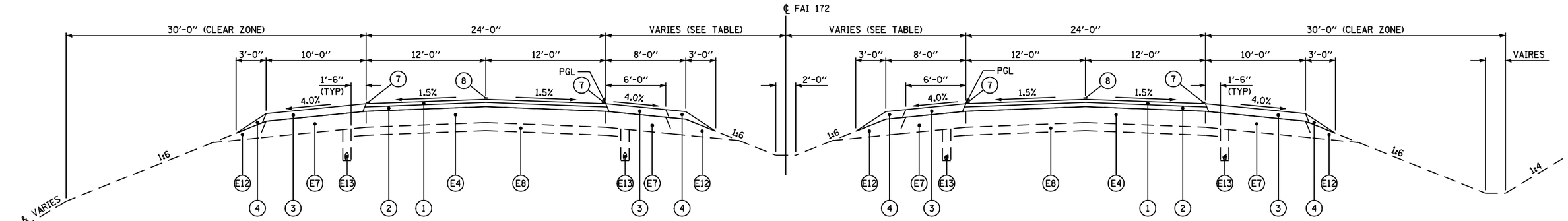
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES

SCALE: none | SHEET NO. 18 OF 18 SHEETS | STA. | TO STA.

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
172	1-(1,2,3,4,5)RS	ADAMS	165	26
		CONTRACT NO. 72A09		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



TYPICAL FAI 172 SECTION

(S.B. ONLY) STA 16+40.03 TO STA 19+51.14
(S.B. ONLY) STA 48+29.62 TO STA 76+00.00
STA 180+41.89 TO STA 189+53.12
STA 214+20.86 TO STA 259+72.92
STA 1+78.71 TO STA 154+56.99
STA 33+06.18 TO STA 66+00.00

BRIDGE RESURFACING OMISSION:

1) STA 148+09.00 TO STA 151+40.50 (N.B. S.N. 001-0055)
2) STA 148+81.73 TO STA 152+13.23 (S.B. S.N. 001-0056)

EXISTING LEGEND

(E1) EXISTING CONTINUOUSLY REINFORCED PCC PAVEMENT, 8"
(E2) EXISTING REINFORCED PCC PAVEMENT, 8"
(E3) EXISTING JOINTED REINFORCED PCC PAVEMENT, 8"
(E4) EXISTING CONTINUOUSLY REINFORCED PCC PAVEMENT, 9"
(E5) EXISTING HOT-MIX ASPHALT SHOULDERS, 8"
(E6) EXISTING STABILIZED SHOULDER (HOT-MIX ASPHALT & AGGREGATE MIXTURE), 8"
(E7) EXISTING HOT-MIX ASPHALT SHOULDERS, 9"

EXISTING LEGEND

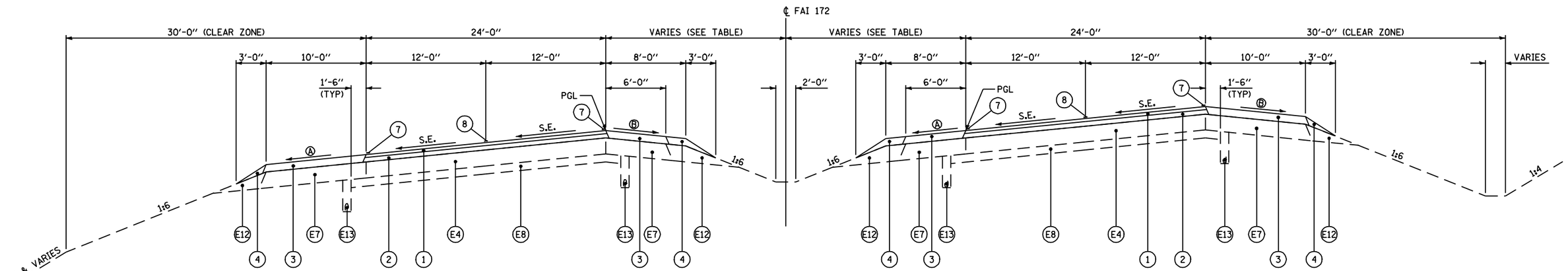
(E8) EXISTING STABILIZED SUB-BASE, 4"
(E9) EXISTING SUB-BASE GRANULAR MATERIAL (IN FILL SECTIONS ONLY), 4"
(E10) EXISTING SUB-BASE GRANULAR MATERIAL, 6"
(E11) EXISTING ROCK SUBGRADE, 18" MINIMUM
(E12) EXISTING AGGREGATE SHOULDERS
(E13) EXISTING PIPE UNDERDRAINS
(E14) EXISTING CONCRETE BARRIER
(E15) EXISTING OIL AND CHIP SHOULDER, 9"

PROPOSED LEGEND

(1) PROPOSED POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70, 1½"
(2) PROPOSED POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL 19.0, N70, 2¼"
(3) PROPOSED HOT-MIX ASPHALT SHOULDERS WITH RUMBLE STRIPS (STD 642001), 3¾"
(4) PROPOSED AGGREGATE SHOULDERS TYPE B
(5) PROPOSED SHOULDER REMOVAL
(6) PROPOSED HOT-MIX ASPHALT SHOULDERS, VARIABLE DEPTH
(7) PROPOSED URETHANE PAVEMENT MARKING, LINE 5" (SEE PLAN SHEETS)
(8) PROPOSED PREFORMED PLASTIC PAVEMENT MARKING, TYPE B (INLAID), LINE 5" (SEE PLAN SHEETS)

MEDIAN WIDTHS

STATION TO STATION		WIDTH
0+00.20	91+16.15	54'
91+16.15	111+01.84	54' - 30'
111+01.84	147+74.17	30'
147+74.17	178+23.29	30' - 54'
178+23.29	285+95.95	54'
0+00.00	131+07.92	54'
131+07.92	144+00.00	54' - 88'
144+00.00	197+82.00	88'
30+87.58	79+00.00	88'



TYPICAL FAI 172 SUPERELEVATED SECTION

(S.B. ONLY) STA 19+51.14 TO STA 48+29.62 (S.E. = 6.0%)
STA 177+60.00 TO STA 180+41.89 (S.E. = 6.0%)
STA 189+53.12 TO STA 214+20.86 (S.E. = 4.2%)
STA 259+72.92 TO STA 285+95.95 (S.E. = 5.2%)
STA 0+00.00 TO STA 1+78.71 (S.E. = 5.2%)
STA 154+56.99 TO STA 197+82.00 (S.E. = 6.0%)
STA 30+87.58 TO STA 33+06.18 (S.E. = 6.0%)

BRIDGE RESURFACING OMISSION:

1) STA 178+99.00 TO STA 181+69.73 (S.B. S.N. 001-0062)
2) STA 179+87.31 TO STA 182+77.40 (N.B. S.N. 001-0063)

STATION EQUATIONS:
STA 285+95.95 BK = STA 0+00.00 AH
STA 197+82.00 BK = STA 30+87.58 AH

SHOULDER SLOPE NOTES:

Ⓐ LOW SIDE OF S.E.: 4.0% OR S.E. WHICHEVER IS GREATER
Ⓑ HIGH SIDE OF S.E.: 4.0% OR 8.0% BREAKOVER WHICHEVER IS LESS.

TYPICAL SUPERELEVATED SECTION NOTES:

1) SEE PLAN SHEETS FOR S.E. TRANSITION LOCATIONS.
2) SHOWN ABOVE IS FOR CURVES GOING TO THE LEFT, ADJUST ACCORDINGLY FOR CURVES GOING TO THE RIGHT.

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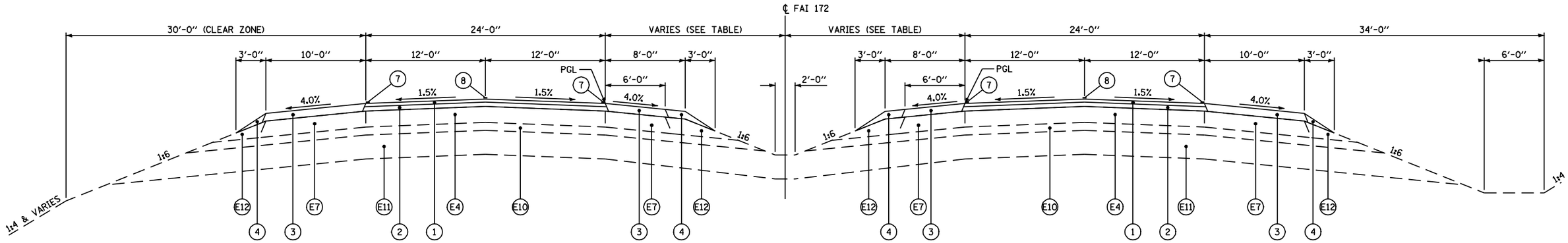
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FAI RTE 172 TYPICAL SECTIONS

SCALE: none | SHEET NO. 1 OF 10 SHEETS | STA. | TO STA.

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
172	1-(1,2,3,4,5)RS	ADAMS	165	27
		CONTRACT NO. 72A09		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



TYPICAL FAI 172 SECTION

STA 76+00.00 TO STA 88+97.55
STA 113+20.44 TO STA 123+85.00

BRIDGE RESURFACING OMISSION:

1) STA 119+52.00 TO STA 121+61.50 (N.B. S.N. 001-0065)
2) STA 119+52.00 TO STA 121+61.50 (S.B. S.N. 001-0064)

GENERAL NOTES:
1) EXISTING CONCRETE BARRIER BEGINS AT STA 102+88.00
2) EXISTING CONCRETE BARRIER ENDS AT STA 160+05.00

EXISTING LEGEND

(E1) EXISTING CONTINUOUSLY REINFORCED PCC PAVEMENT, 8"
(E2) EXISTING REINFORCED PCC PAVEMENT, 8"
(E3) EXISTING JOINTED REINFORCED PCC PAVEMENT, 8"
(E4) EXISTING CONTINUOUSLY REINFORCED PCC PAVEMENT, 9"
(E5) EXISTING HOT-MIX ASPHALT SHOULDERS, 8"
(E6) EXISTING STABILIZED SHOULDER (HOT-MIX ASPHALT & AGGREGATE MIXTURE), 8"
(E7) EXISTING HOT-MIX ASPHALT SHOULDERS, 9"

EXISTING LEGEND

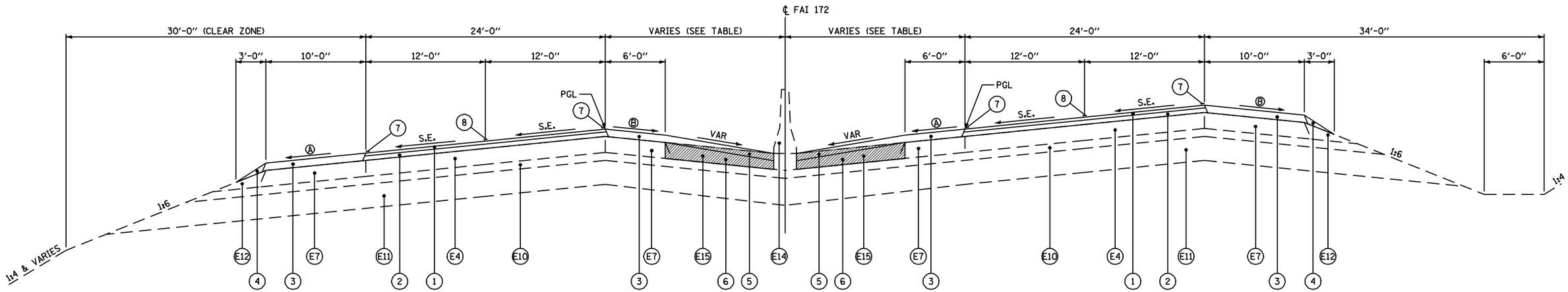
(E8) EXISTING STABILIZED SUB-BASE, 4"
(E9) EXISTING SUB-BASE GRANULAR MATERIAL (IN FILL SECTIONS ONLY), 4"
(E10) EXISTING SUB-BASE GRANULAR MATERIAL, 6"
(E11) EXISTING ROCK SUBGRADE, 18" MINIMUM
(E12) EXISTING AGGREGATE SHOULDERS
(E13) EXISTING PIPE UNDERDRAINS
(E14) EXISTING CONCRETE BARRIER
(E15) EXISTING OIL AND CHIP SHOULDER, 9"

PROPOSED LEGEND

(1) PROPOSED POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70, 1½"
(2) PROPOSED POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL 19.0, N70, 2¼"
(3) PROPOSED HOT-MIX ASPHALT SHOULDERS WITH RUMBLE STRIPS (STD 642001), 3¾"
(4) PROPOSED AGGREGATE SHOULDERS TYPE B
(5) PROPOSED SHOULDER REMOVAL
(6) PROPOSED HOT-MIX ASPHALT SHOULDERS, VARIABLE DEPTH
(7) PROPOSED URETHANE PAVEMENT MARKING, LINE 5" (SEE PLAN SHEETS)
(8) PROPOSED PREFORMED PLASTIC PAVEMENT MARKING, TYPE B (INLAID), LINE 5" (SEE PLAN SHEETS)

MEDIAN WIDTHS

STATION TO STATION		WIDTH
0+00.20	91+16.15	54'
91+16.15	111+01.84	54' - 30'
111+01.84	147+74.17	30'
147+74.17	178+23.29	30' - 54'
178+23.29	285+95.95	54'
0+00.00	131+07.92	54'
131+07.92	144+00.00	54' - 88'
144+00.00	197+82.00	88'
30+87.58	79+00.00	88'



TYPICAL FAI 172 SUPERELEVATED SECTION

STA 88+97.55 TO STA 113+20.44 (S.E. = 6.0%)
STA 157+20.00 TO STA 177+60.00 (S.E. = 6.0%)

SHOULDER SLOPE NOTES:

(A) LOW SIDE OF S.E.: 4.0% OR S.E. WHICHEVER IS GREATER
(B) HIGH SIDE OF S.E.: 4.0% OR 8.0% BREAKOVER WHICHEVER IS LESS.

GENERAL NOTES:
1) EXISTING CONCRETE BARRIER BEGINS AT STA 102+88.00
2) EXISTING CONCRETE BARRIER ENDS AT STA 160+05.00

TYPICAL SUPERELEVATED SECTION NOTES:

1) SEE PLAN SHEETS FOR S.E. TRANSITION LOCATIONS.
2) SHOWN ABOVE IS FOR CURVES GOING TO THE LEFT. ADJUST ACCORDINGLY FOR CURVES GOING TO THE RIGHT.

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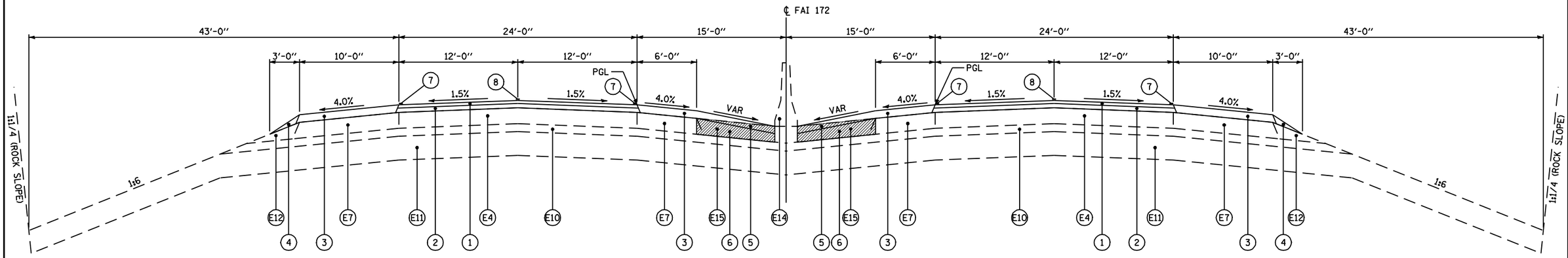
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FAI RTE 172 TYPICAL SECTIONS

SCALE: none | SHEET NO. 2 OF 10 SHEETS | STA. | TO STA.

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
172	1-(1,2,3,4,5)RS	ADAMS	165	28
		CONTRACT NO. 72A09		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



TYPICAL FAI 172 SECTION

STA 123+85.00 TO STA 145+55.57

EXISTING LEGEND

(E1) EXISTING CONTINUOUSLY REINFORCED PCC PAVEMENT, 8"
(E2) EXISTING REINFORCED PCC PAVEMENT, 8"
(E3) EXISTING JOINTED REINFORCED PCC PAVEMENT, 8"
(E4) EXISTING CONTINUOUSLY REINFORCED PCC PAVEMENT, 9"
(E5) EXISTING HOT-MIX ASPHALT SHOULDERS, 8"
(E6) EXISTING STABILIZED SHOULDER (HOT-MIX ASPHALT & AGGREGATE MIXTURE), 8"
(E7) EXISTING HOT-MIX ASPHALT SHOULDERS, 9"

EXISTING LEGEND

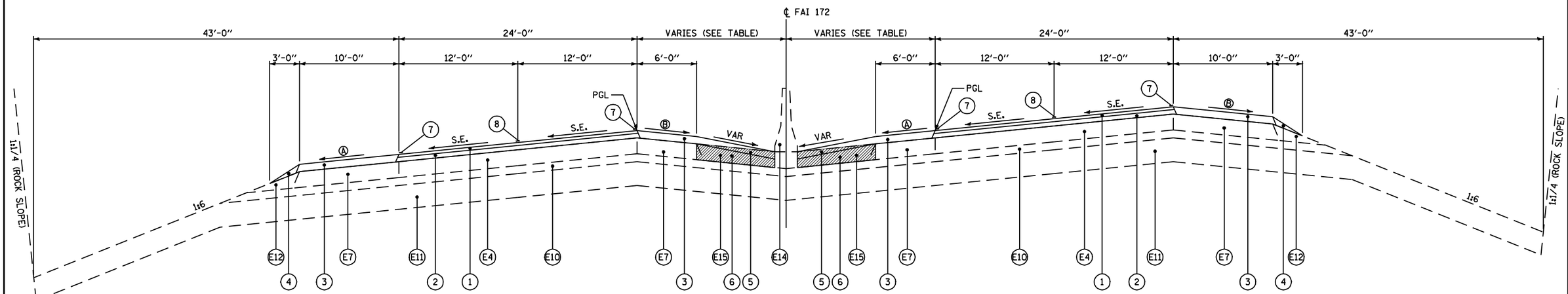
(E8) EXISTING STABILIZED SUB-BASE, 4"
(E9) EXISTING SUB-BASE GRANULAR MATERIAL (IN FILL SECTIONS ONLY), 4"
(E10) EXISTING SUB-BASE GRANULAR MATERIAL, 6"
(E11) EXISTING ROCK SUBGRADE, 18" MINIMUM
(E12) EXISTING AGGREGATE SHOULDERS
(E13) EXISTING PIPE UNDERDRAINS
(E14) EXISTING CONCRETE BARRIER
(E15) EXISTING OIL AND CHIP SHOULDER, 9"

PROPOSED LEGEND

(1) PROPOSED POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70, 1½"
(2) PROPOSED POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL 19.0, N70, 2¼"
(3) PROPOSED HOT-MIX ASPHALT SHOULDERS WITH RUMBLE STRIPS (STD 642001), 3¾"
(4) PROPOSED AGGREGATE SHOULDERS TYPE B
(5) PROPOSED SHOULDER REMOVAL
(6) PROPOSED HOT-MIX ASPHALT SHOULDERS, VARIABLE DEPTH
(7) PROPOSED URETHANE PAVEMENT MARKING, LINE 5" (SEE PLAN SHEETS)
(8) PROPOSED PREFORMED PLASTIC PAVEMENT MARKING, TYPE B (INLAID), LINE 5" (SEE PLAN SHEETS)

MEDIAN WIDTHS

STATION TO STATION		WIDTH
0+00.20	91+16.15	54'
91+16.15	111+01.84	54' - 30'
111+01.84	147+74.17	30'
147+74.17	178+23.29	30' - 54'
178+23.29	285+95.95	54'
0+00.00	131+07.92	54'
131+07.92	144+00.00	54' - 88'
144+00.00	197+82.00	88'
30+87.58	79+00.00	88'



TYPICAL FAI 172 SUPERELEVATED SECTION

STA 145+55.57 TO STA 157+20.00 (S.E. = 6.0%)

SHOULDER SLOPE NOTES:

Ⓐ LOW SIDE OF S.E.: 4.0% OR S.E. WHICHEVER IS GREATER
Ⓑ HIGH SIDE OF S.E.: 4.0% OR 8.0% BREAKOVER WHICHEVER IS LESS.

TYPICAL SUPERELEVATED SECTION NOTES:

1) SEE PLAN SHEETS FOR S.E. TRANSITION LOCATIONS.
2) SHOWN ABOVE IS FOR CURVES GOING TO THE LEFT, ADJUST ACCORDINGLY FOR CURVES GOING TO THE RIGHT.

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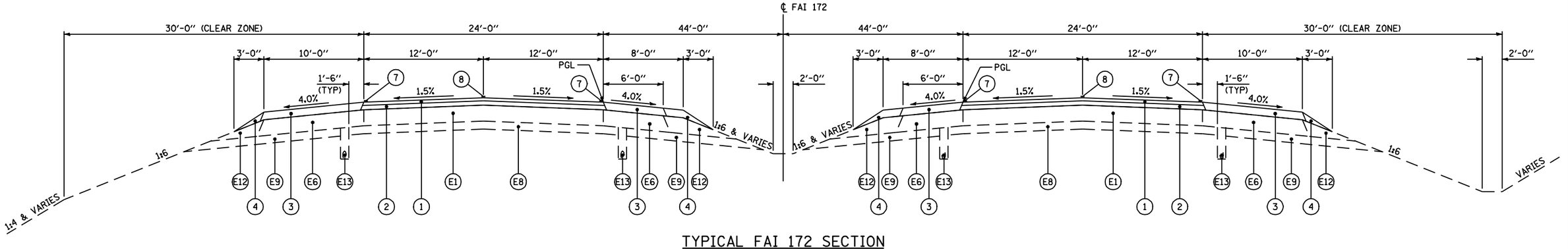
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FAI RTE 172 TYPICAL SECTIONS

SCALE: none | SHEET NO. 3 OF 10 SHEETS | STA. | TO STA.

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
172	1-(1,2,3,4,5)RS	ADAMS	165	29
		CONTRACT NO. 72A09		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



TYPICAL FAI 172 SECTION

STA 66+00.00 TO STA 70+93.46

EXISTING LEGEND

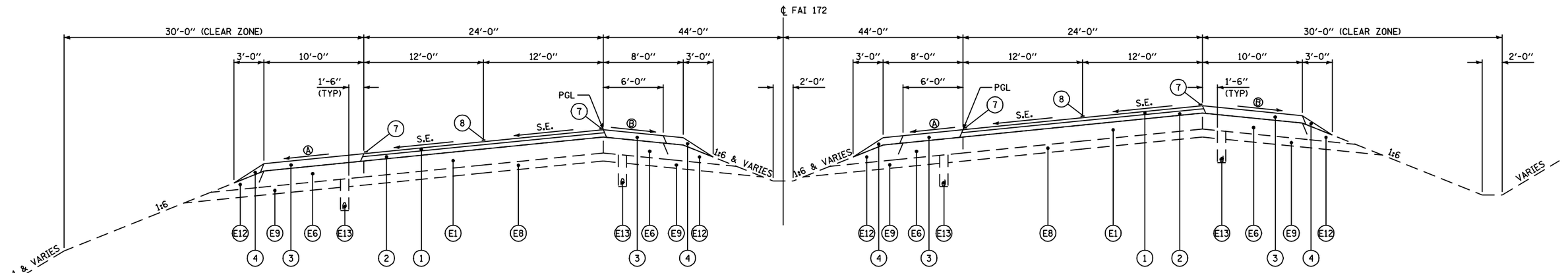
(E1) EXISTING CONTINUOUSLY REINFORCED PCC PAVEMENT, 8"
(E2) EXISTING REINFORCED PCC PAVEMENT, 8"
(E3) EXISTING JOINTED REINFORCED PCC PAVEMENT, 8"
(E4) EXISTING CONTINUOUSLY REINFORCED PCC PAVEMENT, 9"
(E5) EXISTING HOT-MIX ASPHALT SHOULDERS, 8"
(E6) EXISTING STABILIZED SHOULDER (HOT-MIX ASPHALT & AGGREGATE MIXTURE), 8"
(E7) EXISTING HOT-MIX ASPHALT SHOULDERS, 9"

EXISTING LEGEND

(E8) EXISTING STABILIZED SUB-BASE, 4"
(E9) EXISTING SUB-BASE GRANULAR MATERIAL (IN FILL SECTIONS ONLY), 4"
(E10) EXISTING SUB-BASE GRANULAR MATERIAL, 6"
(E11) EXISTING ROCK SUBGRADE, 18" MINIMUM
(E12) EXISTING AGGREGATE SHOULDERS
(E13) EXISTING PIPE UNDERDRAINS
(E14) EXISTING CONCRETE BARRIER
(E15) EXISTING OIL AND CHIP SHOULDER, 9"

PROPOSED LEGEND

(1) PROPOSED POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70, 1½"
(2) PROPOSED POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL 19.0, N70, 2¼"
(3) PROPOSED HOT-MIX ASPHALT SHOULDERS WITH RUMBLE STRIPS (STD 642001), 3¾"
(4) PROPOSED AGGREGATE SHOULDERS TYPE B
(5) PROPOSED SHOULDER REMOVAL
(6) PROPOSED HOT-MIX ASPHALT SHOULDERS, VARIABLE DEPTH
(7) PROPOSED URETHANE PAVEMENT MARKING, LINE 5" (SEE PLAN SHEETS)
(8) PROPOSED PREFORMED PLASTIC PAVEMENT MARKING, TYPE B (INLAID), LINE 5" (SEE PLAN SHEETS)



TYPICAL FAI 172 SUPERELEVATED SECTION

(N.B. ONLY) STA 70+93.46 TO STA 79+00.00 (S.E. = 6.0%)
(S.B. ONLY) STA 70+93.46 TO STA 75+99.00 (S.E. = 6.0%)

SHOULDER SLOPE NOTES:

Ⓐ LOW SIDE OF S.E.: 4.0% OR S.E. WHICHEVER IS GREATER
Ⓑ HIGH SIDE OF S.E.: 4.0% OR 8.0% BREAKOVER WHICHEVER IS LESS.

TYPICAL SUPERELEVATED SECTION NOTES:

1) SEE PLAN SHEETS FOR S.E. TRANSITION LOCATIONS.
2) SHOWN ABOVE IS FOR CURVES GOING TO THE LEFT, ADJUST ACCORDINGLY FOR CURVES GOING TO THE RIGHT.

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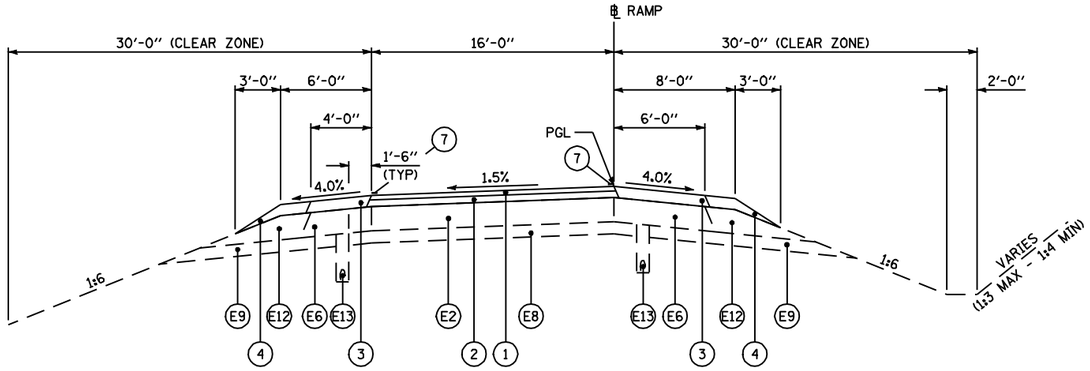
	PLOT DATE = Feb-01-2010 09:34:38AM	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

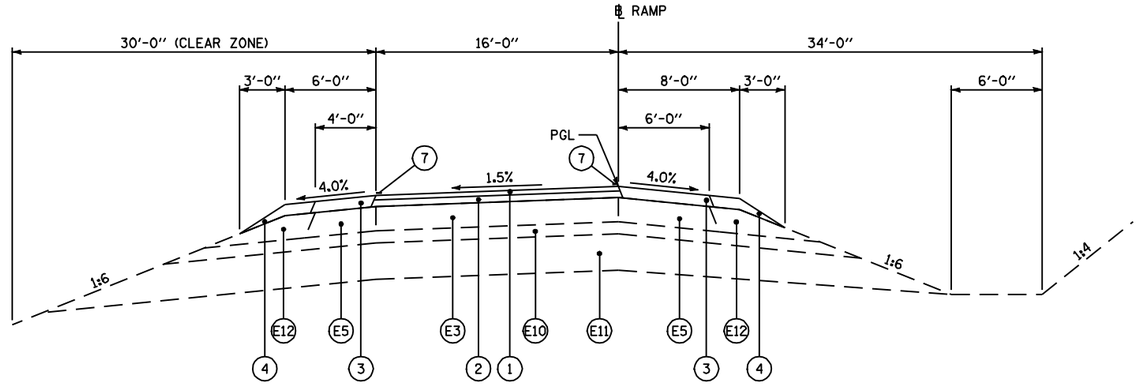
FAI RTE 172 TYPICAL SECTIONS

SCALE: none | SHEET NO. 4 OF 10 SHEETS | STA. | TO STA.

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
172	1-(1,2,3,4,5)RS	ADAMS	165	30
		CONTRACT NO. 72A09		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



TYPICAL IL 96 INTERCHANGE RAMP SECTION



TYPICAL IL 57 INTERCHANGE RAMP SECTION

EXISTING LEGEND

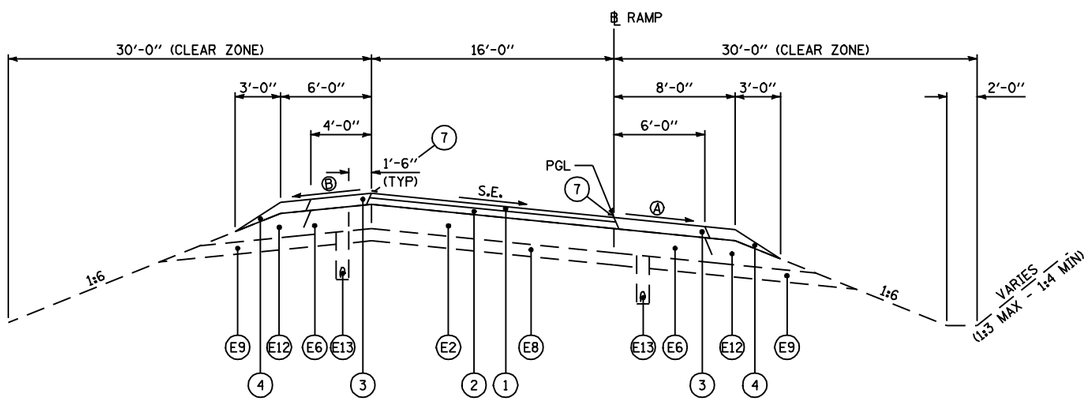
(E1) EXISTING CONTINUOUSLY REINFORCED PCC PAVEMENT, 8"
(E2) EXISTING REINFORCED PCC PAVEMENT, 8"
(E3) EXISTING JOINTED REINFORCED PCC PAVEMENT, 8"
(E4) EXISTING CONTINUOUSLY REINFORCED PCC PAVEMENT, 9"
(E5) EXISTING HOT-MIX ASPHALT SHOULDERS, 8"
(E6) EXISTING STABILIZED SHOULDER (HOT-MIX ASPHALT & AGGREGATE MIXTURE), 8"
(E7) EXISTING HOT-MIX ASPHALT SHOULDERS, 9"

EXISTING LEGEND

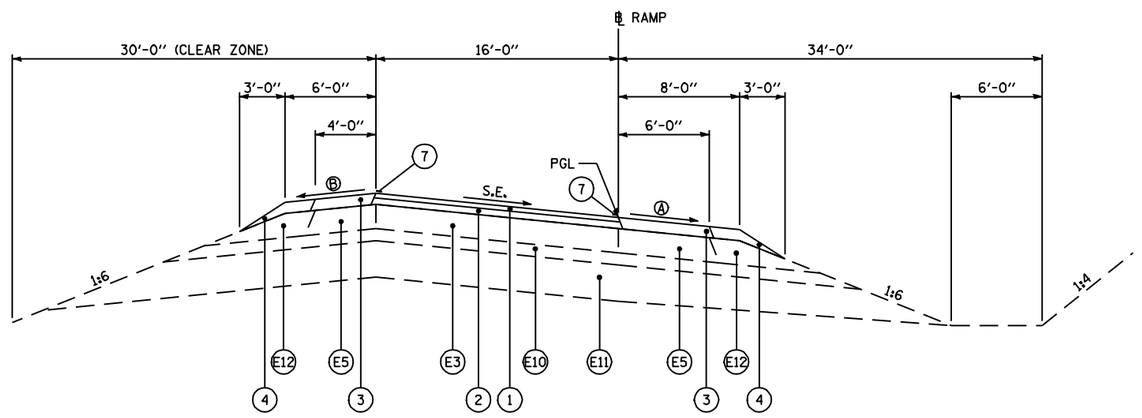
(E8) EXISTING STABILIZED SUB-BASE, 4"
(E9) EXISTING SUB-BASE GRANULAR MATERIAL (IN FILL SECTIONS ONLY), 4"
(E10) EXISTING SUB-BASE GRANULAR MATERIAL, 6"
(E11) EXISTING ROCK SUBGRADE, 18" MINIMUM
(E12) EXISTING AGGREGATE SHOULDERS
(E13) EXISTING PIPE UNDERDRAINS
(E14) EXISTING CONCRETE BARRIER
(E15) EXISTING OIL AND CHIP SHOULDER, 9"

PROPOSED LEGEND

(1) PROPOSED POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70, 1½"
(2) PROPOSED POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL 19.0, N70, 2¼"
(3) PROPOSED HOT-MIX ASPHALT SHOULDERS, 3¾"
(4) PROPOSED AGGREGATE SHOULDERS TYPE B
(5) PROPOSED SHOULDER REMOVAL
(6) PROPOSED HOT-MIX ASPHALT SHOULDERS, VARIABLE DEPTH
(7) PROPOSED URETHANE PAVEMENT MARKING, LINE 5" (SEE PLAN SHEETS)



TYPICAL IL 96 INTERCHANGE RAMP SUPERELEVATED SECTION



TYPICAL IL 57 INTERCHANGE RAMP SUPERELEVATED SECTION

SHOULDER SLOPE NOTES:

Ⓐ LOW SIDE OF S.E.: 4.0% OR S.E. WHICHEVER IS GREATER
Ⓑ HIGH SIDE OF S.E.: 4.0% OR 8.0% BREAKOVER WHICHEVER IS LESS.

TYPICAL SUPERELEVATED SECTION NOTES:

1) SEE PLAN SHEETS FOR S.E. TRANSITION LOCATIONS.
2) SHOWN ABOVE IS FOR CURVES GOING TO THE RIGHT, ADJUST ACCORDINGLY FOR CURVES GOING TO THE LEFT.

FILE NAME = c:\pw_work\PWIDOT\LAUGHLINRL\d0182983\027-D672A09-sht-Typicals.dgn	USER NAME = laughlinrl	DESIGNED -	REVISED -
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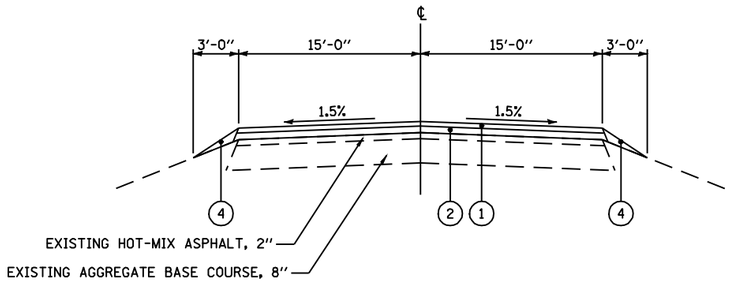
	PLOT DATE = Feb-01-2010 09:34:40AM	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

RAMP TYPICAL SECTIONS

SCALE: none | SHEET NO. 5 OF 10 SHEETS | STA. | TO STA.

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
172	1-(1,2,3,4,5)RS	ADAMS	165	31
		CONTRACT NO. 72A09		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



TYPICAL MEDIAN CROSSOVER

EXISTING LEGEND

(E1) EXISTING CONTINUOUSLY REINFORCED PCC PAVEMENT, 8"
(E2) EXISTING REINFORCED PCC PAVEMENT, 8"
(E3) EXISTING JOINTED REINFORCED PCC PAVEMENT, 8"
(E4) EXISTING CONTINUOUSLY REINFORCED PCC PAVEMENT, 9"
(E5) EXISTING HOT-MIX ASPHALT SHOULDERS, 8"
(E6) EXISTING STABILIZED SHOULDER (HOT-MIX ASPHALT & AGGREGATE MIXTURE), 8"
(E7) EXISTING HOT-MIX ASPHALT SHOULDERS, 9"

EXISTING LEGEND

(E8) EXISTING STABILIZED SUB-BASE, 4"
(E9) EXISTING SUB-BASE GRANULAR MATERIAL (IN FILL SECTIONS ONLY), 4"
(E10) EXISTING SUB-BASE GRANULAR MATERIAL, 6"
(E11) EXISTING ROCK SUBGRADE, 18" MINIMUM
(E12) EXISTING AGGREGATE SHOULDERS
(E13) EXISTING PIPE UNDERDRAINS
(E14) EXISTING CONCRETE BARRIER
(E15) EXISTING OIL AND CHIP SHOULDER, 9"

PROPOSED LEGEND

(1) PROPOSED POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70, 1½"
(2) PROPOSED POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL 19.0, N70, 2¼"
(3) PROPOSED HOT-MIX ASPHALT SHOULDERS WITH RUMBLE STRIPS (STD 642001), 3¾"
(4) PROPOSED AGGREGATE SHOULDERS TYPE B
(5) PROPOSED SHOULDER REMOVAL
(6) PROPOSED HOT-MIX ASPHALT SHOULDERS, VARIABLE DEPTH

FILE NAME = c:\pw_work\PWIDOT\LAUGHLINRL\d0182983\027-D672A09-sht-Typicals.dgn	USER NAME = laughlinrl	DESIGNED -	REVISED -
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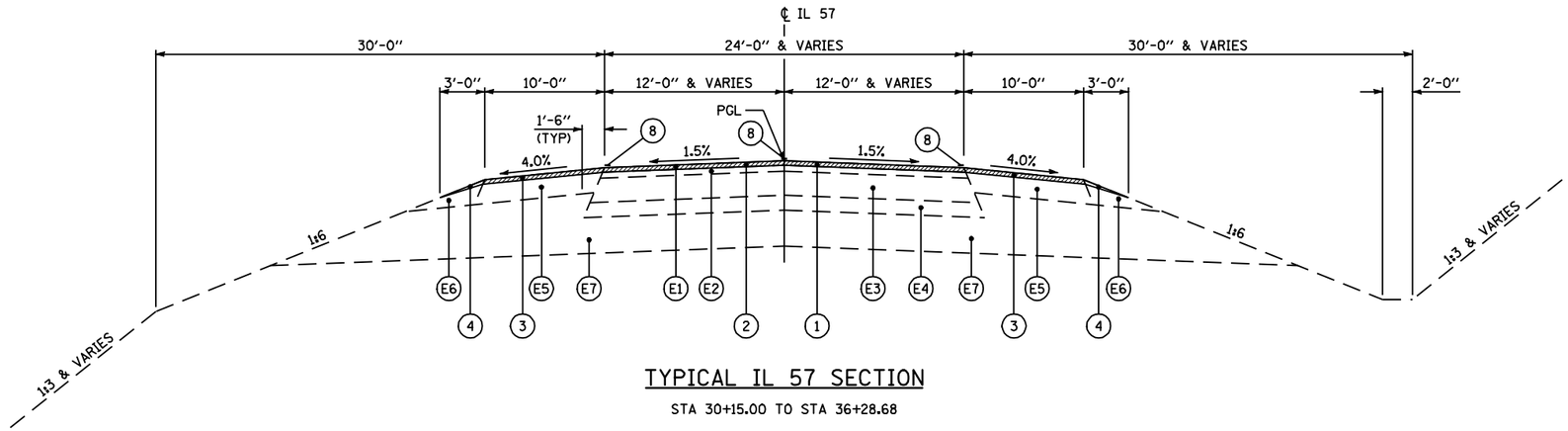
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MEDIAN CROSSOVER TYPICAL SECTIONS

SCALE: none | SHEET NO. 6 OF 10 SHEETS | STA. | TO STA.

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
172	1-(1,2,3,4,5)RS	ADAMS	165	32
		CONTRACT NO. 72A09		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



TYPICAL IL 57 SECTION

STA 30+15.00 TO STA 36+28.68

EXISTING LEGEND

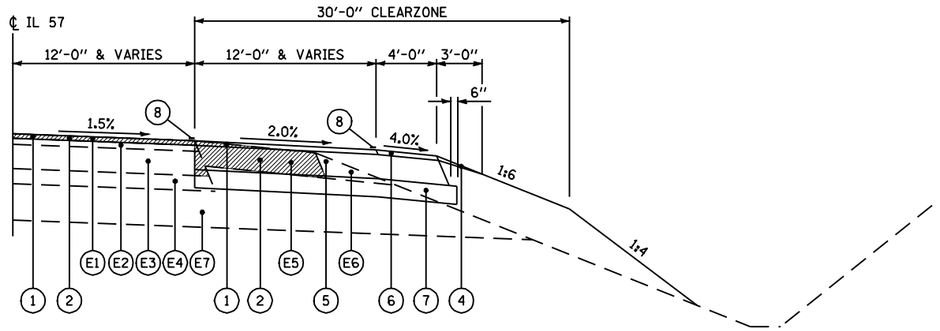
(E1) EXISTING HOT-MIX ASPHALT SURFACE COURSE, 1½"
(E2) EXISTING HOT-MIX ASPHALT BINDER COURSE, 2"
(E3) EXISTING HOT-MIX ASPHALT BASE COURSE, 8"
(E4) EXISTING SUB-BASE GRANULAR MATERIAL, 5"
(E5) EXISTING HOT-MIX ASPHALT SHOULDERS, 8"

EXISTING LEGEND

(E6) EXISTING AGGREGATE SHOULDERS
(E7) EXISTING ROCK SUBGRADE, 18" MIN.
(E8) EXISTING TOPSOIL, 12"
(E9) EXISTING CURB AND GUTTER TYPE M-6.24

PROPOSED LEGEND

(1) PROPOSED POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70, 1½"
(2) PROPOSED HOT-MIX ASPHALT SURFACE REMOVAL, 1½"
(3) PROPOSED HOT-MIX ASPHALT SHOULDERS, 1½"
(4) PROPOSED AGGREGATE SHOULDERS TYPE B
(5) PROPOSED HOT-MIX ASPHALT BASE COURSE, 12"
(6) PROPOSED HOT-MIX ASPHALT SHOULDERS, 1½
(7) PROPOSED SUB-BASE GRANULAR MATERIAL, TYPE A, 6"
(8) PROPOSED URETHANE PAVEMENT MARKING, LINE 5" (SEE PLAN SHEETS)



TYPICAL IL 57 TURN LANE SECTION

SEE PLAN SHEETS FOR LOCATION

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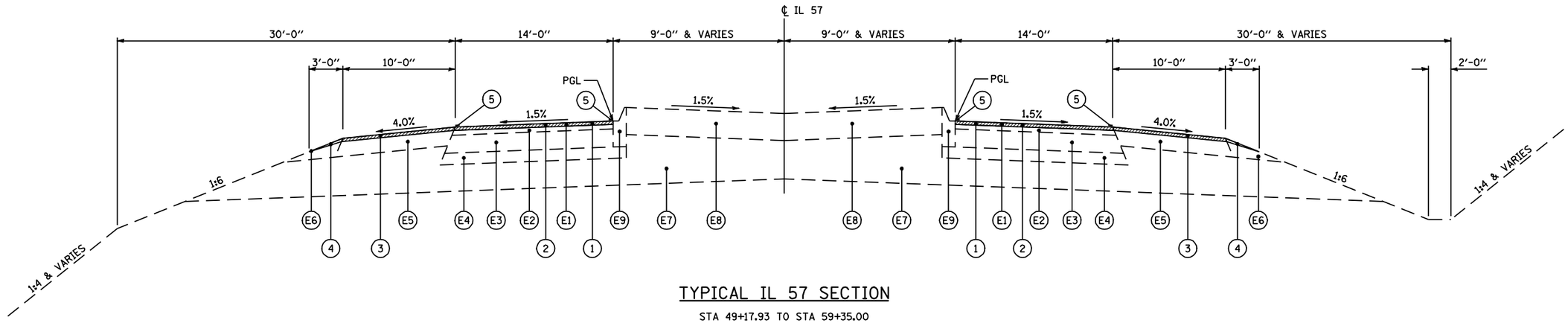
	PLOT DATE = Feb-01-2010 09:34:45AM	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL RTE 57 TYPICAL SECTIONS

SCALE: none | SHEET NO. 7 OF 10 SHEETS | STA. | TO STA.

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
172	1-(1,2,3,4,5)RS	ADAMS	165	33
		CONTRACT NO. 72A09		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



TYPICAL IL 57 SECTION

STA 49+17.93 TO STA 59+35.00

EXISTING LEGEND

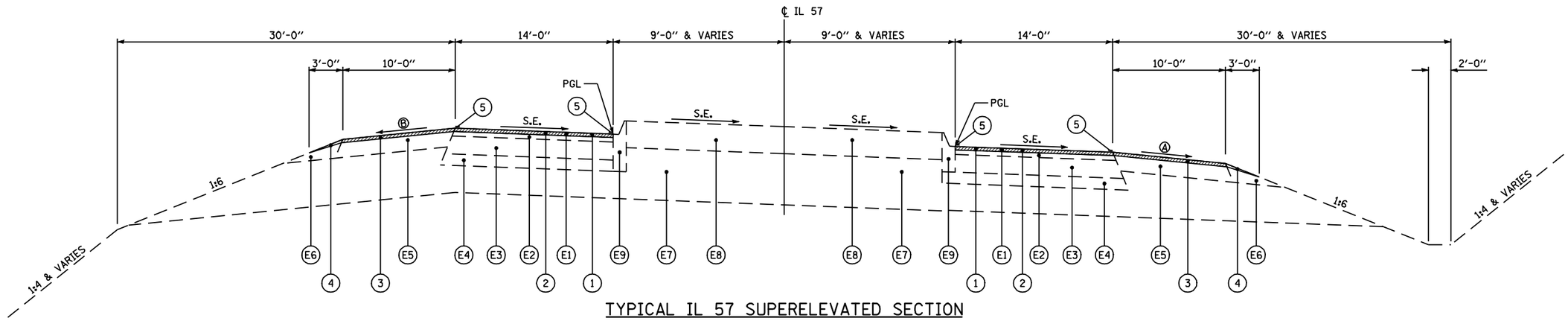
- (E1) EXISTING HOT-MIX ASPHALT SURFACE COURSE, 1½"
- (E2) EXISTING HOT-MIX ASPHALT BINDER COURSE, 2"
- (E3) EXISTING HOT-MIX ASPHALT BASE COURSE, 8"
- (E4) EXISTING SUB-BASE GRANULAR MATERIAL, 5"
- (E5) EXISTING HOT-MIX ASPHALT SHOULDERS, 8"

EXISTING LEGEND

- (E6) EXISTING AGGREGATE SHOULDERS
- (E7) EXISTING ROCK SUBGRADE, 18" MIN.
- (E8) EXISTING TOPSOIL, 12"
- (E9) EXISTING CURB AND GUTTER TYPE M-6.24

PROPOSED LEGEND

- (1) PROPOSED POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70, 1½"
- (2) PROPOSED HOT-MIX ASPHALT SURFACE REMOVAL, 1½"
- (3) PROPOSED HOT-MIX ASPHALT SHOULDERS, 1½"
- (4) PROPOSED AGGREGATE SHOULDERS TYPE B
- (5) PROPOSED URETHANE PAVEMENT MARKING, LINE 5" (SEE PLAN SHEETS)



TYPICAL IL 57 SUPERELEVATED SECTION

STA 36+28.68 TO STA 49+17.93 (S.E. = 3.5%)

SHOULDER SLOPE NOTES:

Ⓐ LOW SIDE OF S.E.: 4.0% OR S.E. WHICHEVER IS GREATER

Ⓑ HIGH SIDE OF S.E.: 4.0% OR 8.0% BREAKOVER WHICHEVER IS LESS.

TYPICAL SUPERELEVATED SECTION NOTES:

1) SEE PLAN SHEETS FOR S.E. TRANSITION LOCATIONS.

2) SHOWN ABOVE IS FOR CURVES GOING TO THE RIGHT, ADJUST ACCORDINGLY FOR CURVES GOING TO THE LEFT.

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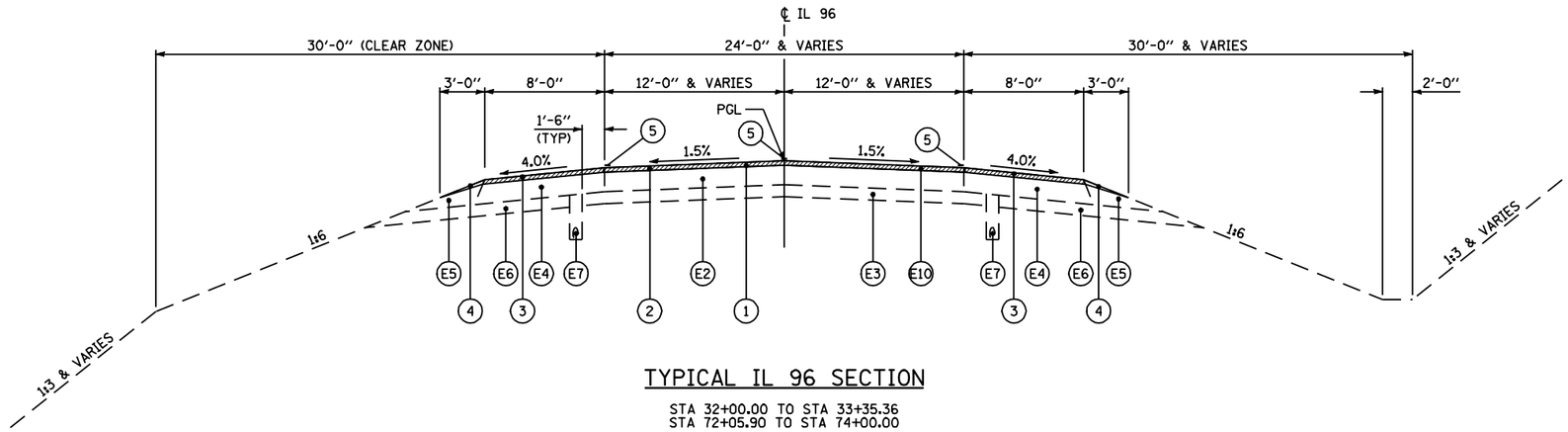
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL RTE 57 TYPICAL SECTIONS

SCALE: none | SHEET NO. 8 OF 10 SHEETS | STA. | TO STA.

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
172	1-(1,2,3,4,5)RS	ADAMS	165	34
		CONTRACT NO. 72A09		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



TYPICAL IL 96 SECTION

STA 32+00.00 TO STA 33+35.36
STA 72+05.90 TO STA 74+00.00

EXISTING LEGEND

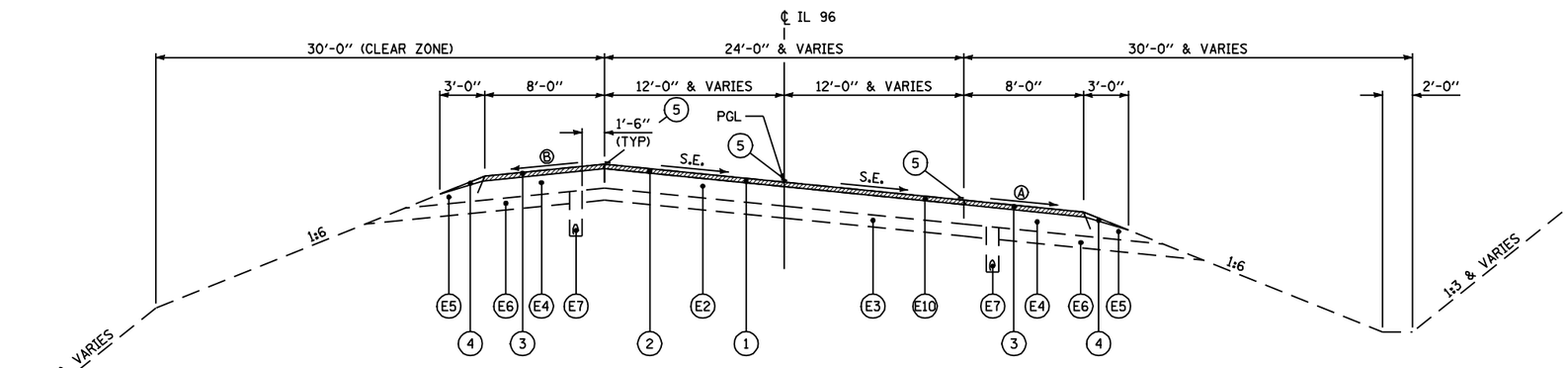
(E1) EXISTING CONTINUOUSLY REINFORCED PCC PAVEMENT, 8"
(E2) EXISTING REINFORCED PCC PAVEMENT, 8"
(E3) EXISTING STABILIZED SUB-BASE, 4"
(E4) EXISTING STABILIZED SHOULDER (HOT-MIX ASPHALT & AGGREGATE MIXTURE), 8"
(E5) EXISTING AGGREGATE SHOULDER

EXISTING LEGEND

(E6) EXISTING SUB-BASE GRANULAR MATERIAL TYPE C (IN FILL SECTION ONLY), 4"
(E7) EXISTING PIPE UNDERDRAINS
(E8) EXISTING CURB AND GUTTER TYPE M-6.06
(E9) EXISTING CONCRETE MEDIAN SURFACE 4" OR SODDING
(E10) EXISTING HOT-MIX ASPHALT SURFACING

PROPOSED LEGEND

(1) PROPOSED POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70, 1½"
(2) PROPOSED HOT-MIX ASPHALT SURFACE REMOVAL, 1½"
(3) PROPOSED HOT-MIX ASPHALT SHOULDERS, 1½"
(4) PROPOSED AGGREGATE SHOULDERS TYPE B
(5) PROPOSED URETHANE PAVEMENT MARKING, LINE 5" (SEE PLAN SHEETS)



TYPICAL IL 96 SUPERELEVATED SECTION

STA 33+35.36 TO STA 34+09.05 (S.E. = 5.3%)
STA 65+18.42 TO STA 72+05.90 (S.E. = 3.0%)

SHOULDER SLOPE NOTES:

Ⓐ LOW SIDE OF S.E.: 4.0% OR S.E. WHICHEVER IS GREATER
Ⓑ HIGH SIDE OF S.E.: 4.0% OR 8.0% BREAKOVER WHICHEVER IS LESS.

TYPICAL SUPERELEVATED SECTION NOTES:

1) SEE PLAN SHEETS FOR S.E. TRANSITION LOCATIONS.
2) SHOWN ABOVE IS FOR CURVES GOING TO THE RIGHT, ADJUST ACCORDINGLY FOR CURVES GOING TO THE LEFT.

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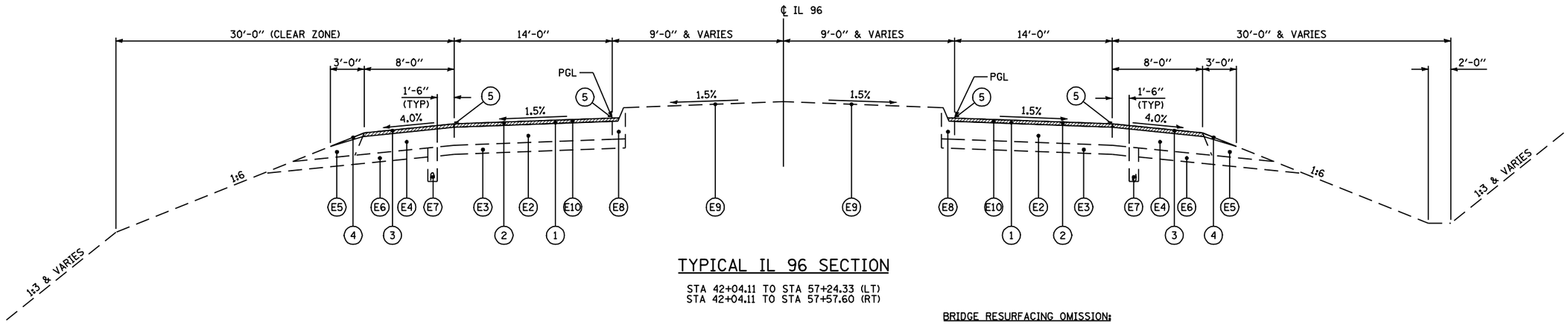
	PLOT DATE = Feb-01-2010 09:34:50AM	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL RTE 96 TYPICAL SECTIONS

SCALE: none | SHEET NO. 9 OF 10 SHEETS | STA. | TO STA.

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
172	1-(1,2,3,4,5)RS	ADAMS	165	35
		CONTRACT NO. 72A09		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



TYPICAL IL 96 SECTION

STA 42+04.11 TO STA 57+24.33 (LT)
STA 42+04.11 TO STA 57+57.60 (RT)

BRIDGE RESURFACING OMISSION:

1) STA 48+62.58 TO STA 51+32.42 (S.N. 001-0044)

EXISTING LEGEND

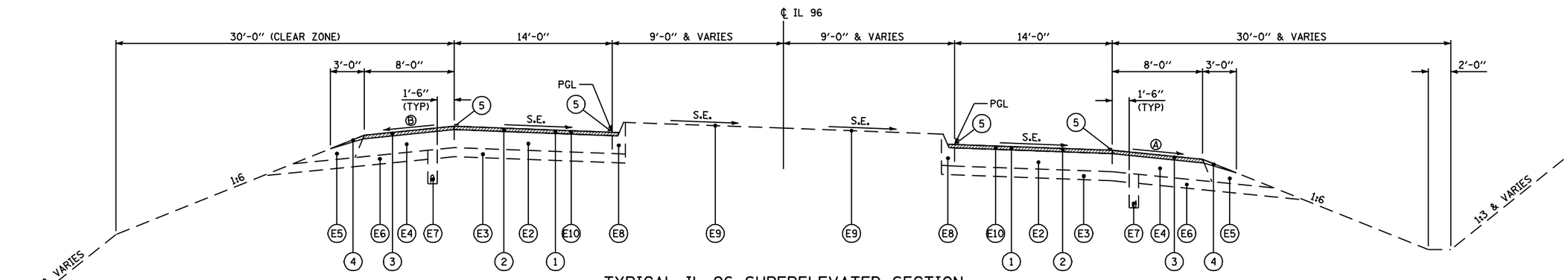
(E1) EXISTING CONTINUOUSLY REINFORCED PCC PAVEMENT, 8"
(E2) EXISTING REINFORCED PCC PAVEMENT, 8"
(E3) EXISTING STABILIZED SUB-BASE, 4"
(E4) EXISTING STABILIZED SHOULDER (HOT-MIX ASPHALT & AGGREGATE MIXTURE), 8"
(E5) EXISTING AGGREGATE SHOULDER

EXISTING LEGEND

(E6) EXISTING SUB-BASE GRANULAR MATERIAL TYPE C (IN FILL SECTION ONLY), 4"
(E7) EXISTING PIPE UNDERDRAINS
(E8) EXISTING CURB AND GUTTER TYPE M-6.06
(E9) EXISTING CONCRETE MEDIAN SURFACE 4" OR SODDING
(E10) EXISTING HOT-MIX ASPHALT SURFACING

PROPOSED LEGEND

(1) PROPOSED POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70, 1½"
(2) PROPOSED HOT-MIX ASPHALT SURFACE REMOVAL, 1½"
(3) PROPOSED HOT-MIX ASPHALT SHOULDERS, 1½"
(4) PROPOSED AGGREGATE SHOULDERS TYPE B
(5) PROPOSED URETHANE PAVEMENT MARKING, LINE 5" (SEE PLAN SHEETS)



TYPICAL IL 96 SUPERELEVATED SECTION

STA 34+09.05 TO STA 42+04.11 (S.E. = 5.3%)
STA 59+66.47 TO STA 63+16.24 (S.E. = 3.0%)

SHOULDER SLOPE NOTES:

Ⓐ LOW SIDE OF S.E.: 4.0% OR S.E. WHICHEVER IS GREATER
Ⓑ HIGH SIDE OF S.E.: 4.0% OR 8.0% BREAKOVER WHICHEVER IS LESS.

TYPICAL SUPERELEVATED SECTION NOTES:

1) SEE PLAN SHEETS FOR S.E. TRANSITION LOCATIONS.
2) SHOWN ABOVE IS FOR CURVES GOING TO THE RIGHT, ADJUST ACCORDINGLY FOR CURVES GOING TO THE LEFT.

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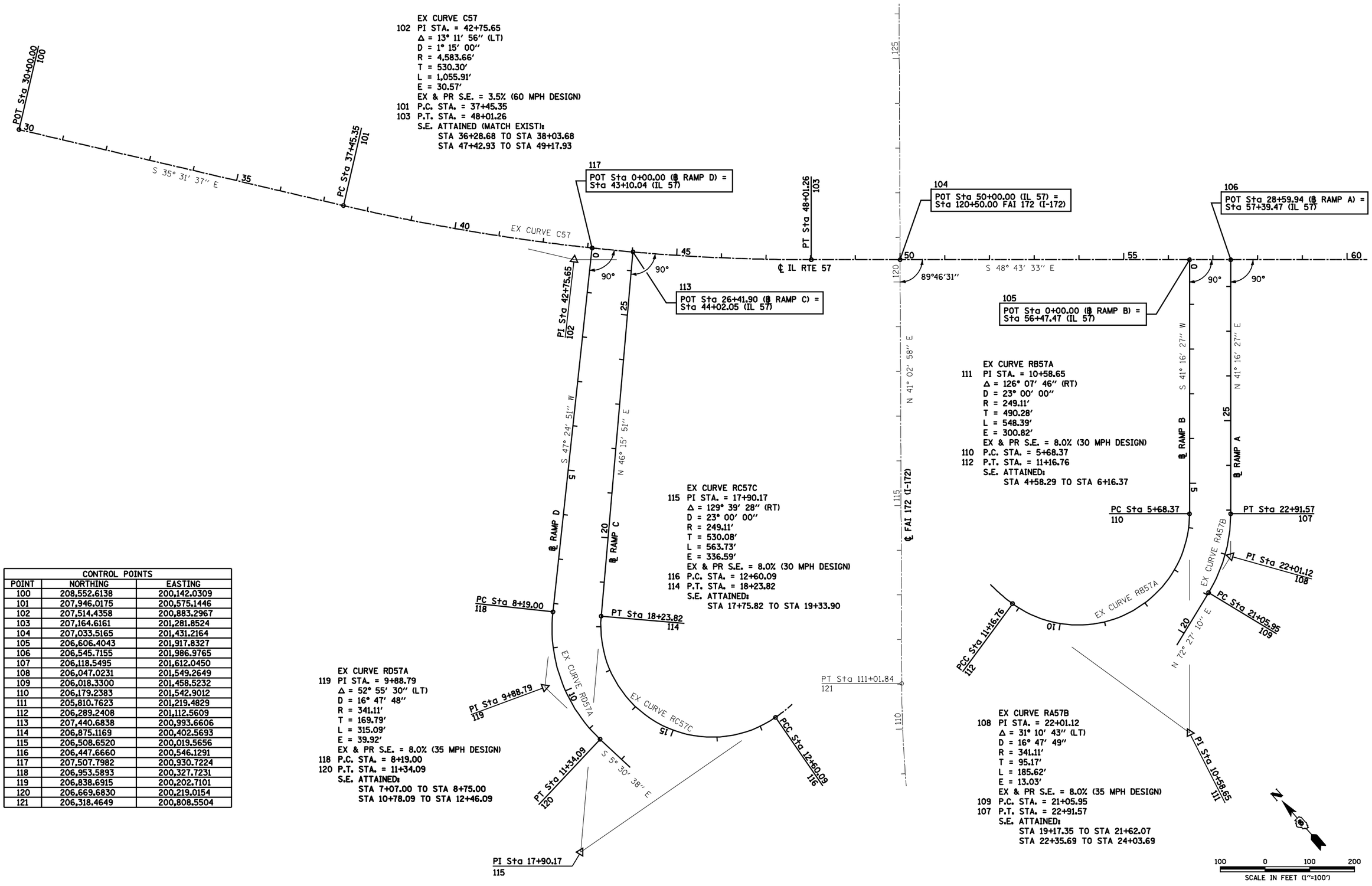
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL RTE 96 TYPICAL SECTIONS

SCALE: none | SHEET NO. 10 OF 10 SHEETS | STA. | TO STA.

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
172	1-(1,2,3,4,5)RS	ADAMS	165	36
		CONTRACT NO. 72A09		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



CONTROL POINTS		
POINT	NORTHING	EASTING
100	208,552.6138	200,142.0309
101	207,946.0175	200,575.1446
102	207,514.4358	200,883.2967
103	207,164.6161	201,281.8524
104	207,033.5165	201,431.2164
105	206,606.4043	201,917.8327
106	206,545.7155	201,986.9765
107	206,118.5495	201,612.0450
108	206,047.0231	201,549.2649
109	206,018.3300	201,458.5232
110	206,179.2383	201,542.9012
111	205,810.7623	201,219.4829
112	206,289.2408	201,112.5609
113	207,440.6838	200,993.6606
114	206,875.1169	200,402.5693
115	206,508.6520	200,019.5656
116	206,447.6660	200,546.1291
117	207,507.7982	200,930.7224
118	206,953.5893	200,327.7231
119	206,838.6915	200,202.7101
120	206,669.6830	200,219.0154
121	206,318.4649	200,808.5504

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		DRAWN -	REVISED -		
	PLOT SCALE = 200.0000 ′ / IN.	CHECKED -	REVISED -		
	PLOT DATE = Feb-01-2010 09:34:55AM	DATE -	REVISED -		SCALE: 1″=100′ | SHEET NO. 1 OF 2 SHEETS | STA. | TO STA.

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
172	1-(1,2,3,4,5)RS	ADAMS	165	37
		CONTRACT NO. 72A09		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

CONTROL POINTS		
POINT	NORTHING	EASTING
100	241,907.9688	194,664.6226
101	241,610.6017	194,824.8662
102	241,385.7911	195,076.9879
103	241,220.3315	195,262.5485
104	241,212.1589	195,271.7140
105	240,789.5509	195,745.6629
106	240,366.9377	196,219.6175
107	240,358.7702	196,228.7772
108	240,027.0706	195,671.6498
109	240,012.4254	195,903.5039
110	240,185.8197	196,058.1171
111	240,561.7722	196,354.2642
112	240,662.5975	196,416.5901
113	240,780.8653	196,424.5256
114	241,552.0288	195,819.6790
115	241,566.6726	195,587.8248
116	241,393.2773	195,433.2128
117	241,017.3274	195,137.0601
118	240,912.9062	195,072.5115
119	240,790.4643	195,063.6630
120	240,079.7890	196,541.6506

EXIST CURVE IL96-1
101 PI STA. = 37+73.16
Δ = 19° 57′ 30″ (LT)
D = 2° 59′ 04″
R = 1,919.81′
T = 337.79′
L = 668.74′
E = 29.49′
EX & PR S.E. = 5.3% (55 MPH DESIGN)
T.R. = 44.73′ (HIGH SIDE ONLY)
100 P.C. STA. = 34+35.37
102 P.T. STA. = 41+04.11
S.E. ATTAINED (MATCH EXIST - LOW SIDE ONLY):
STA 33+35.36 TO STA 34+85.36
STA 40+54.11 TO STA 42+04.11
S.E. ATTAINED (HIGH SIDE ONLY):
STA 32+82.58 TO STA 34+85.36
STA 40+54.11 TO STA 42+56.89

EXIST CURVE RAMP C-1
115 PI STA. = 17+10.36
Δ = 51° 53′ 29″ (LT)
D = 12° 00′ 00″
R = 477.47′
T = 232.32′
L = 432.43′
E = 53.52′
EX & PR S.E. = 8.0% (40 MPH DESIGN)
114 P.C. STA. = 14+78.05
116 P.T. STA. = 19+10.48
S.E. ATTAINED:
STA 13+58.89 TO STA 15+79.05
STA 18+30.97 TO STA 20+10.85

EXIST CURVE RAMP B-1
112 PI STA. = 3+57.19
Δ = 27° 53′ 02″ (LT)
D = 11° 59′ 59″
R = 477.47′
T = 118.53′
L = 232.37′
E = 14.49′
EX & PR S.E. = 8.0% (40 MPH DESIGN)
111 P.C. STA. = 2+38.66
113 P.T. STA. = 4+71.03
S.E. ATTAINED:
STA 1+19.41 TO STA 2+98.29
STA 3+71.26 TO STA 5+91.42

EXIST CURVE RAMP A-1
109 PI STA. = 17+10.34
Δ = 51° 53′ 29″ (LT)
D = 12° 00′ 00″
R = 477.47′
T = 232.32′
L = 432.43′
E = 53.52′
EX & PR S.E. = 8.0% (40 MPH DESIGN)
108 P.C. STA. = 14+78.03
110 P.T. STA. = 19+10.46
S.E. ATTAINED:
STA 13+58.89 TO STA 15+79.05
STA 18+31.97 TO STA 20+10.85

EXIST CURVE RAMP D-1
118 PI STA. = 3+61.42
Δ = 27° 35′ 21″ (LT)
D = 11° 27′ 33″
R = 500.00′
T = 122.76′
L = 240.76′
E = 14.85′
EX & PR S.E. = 8.0% (40 MPH DESIGN)
117 P.C. STA. = 2+38.66
119 P.T. STA. = 4+79.42
S.E. ATTAINED:
STA 1+19.41 TO STA 2+98.29
STA 3+71.26 TO STA 5+91.42

103 POT Sta 0+00.00 (℄ RAMP D) = Sta 43+52.72 (IL 96)
104 POT Sta 21+53.12 (℄ RAMP C) = Sta 43+65.00 (IL 96)
105 POT Sta 50+00.00 (IL 96) = Sta 56+09.43 FAI 172 (I-172)
106 POT Sta 21+53.14 (℄ RAMP A) = Sta 56+35.01 (IL 96)
107 POT Sta 0+00.00 (℄ RAMP B) = Sta 56+47.28 (IL 96)

100 0 100 200
SCALE IN FEET (1″=100′)

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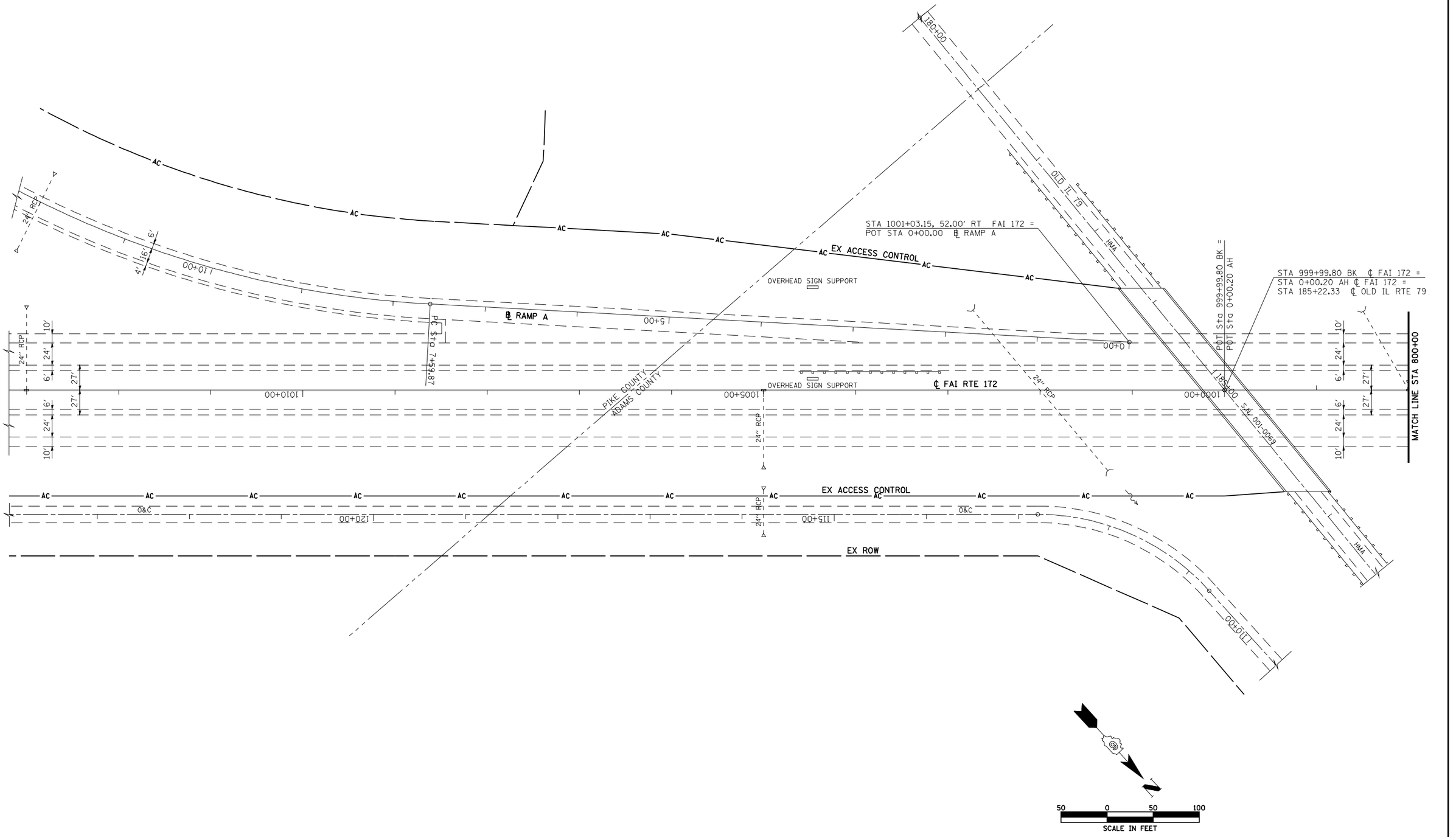
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ALIGNMENT DATA (IL 96)

SCALE: 1″=100′ | SHEET NO. 2 OF 2 SHEETS | STA. | TO STA.

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
172	1-(1,2,3,4,5)RS	ADAMS	165	38
		CONTRACT NO. 72A09		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



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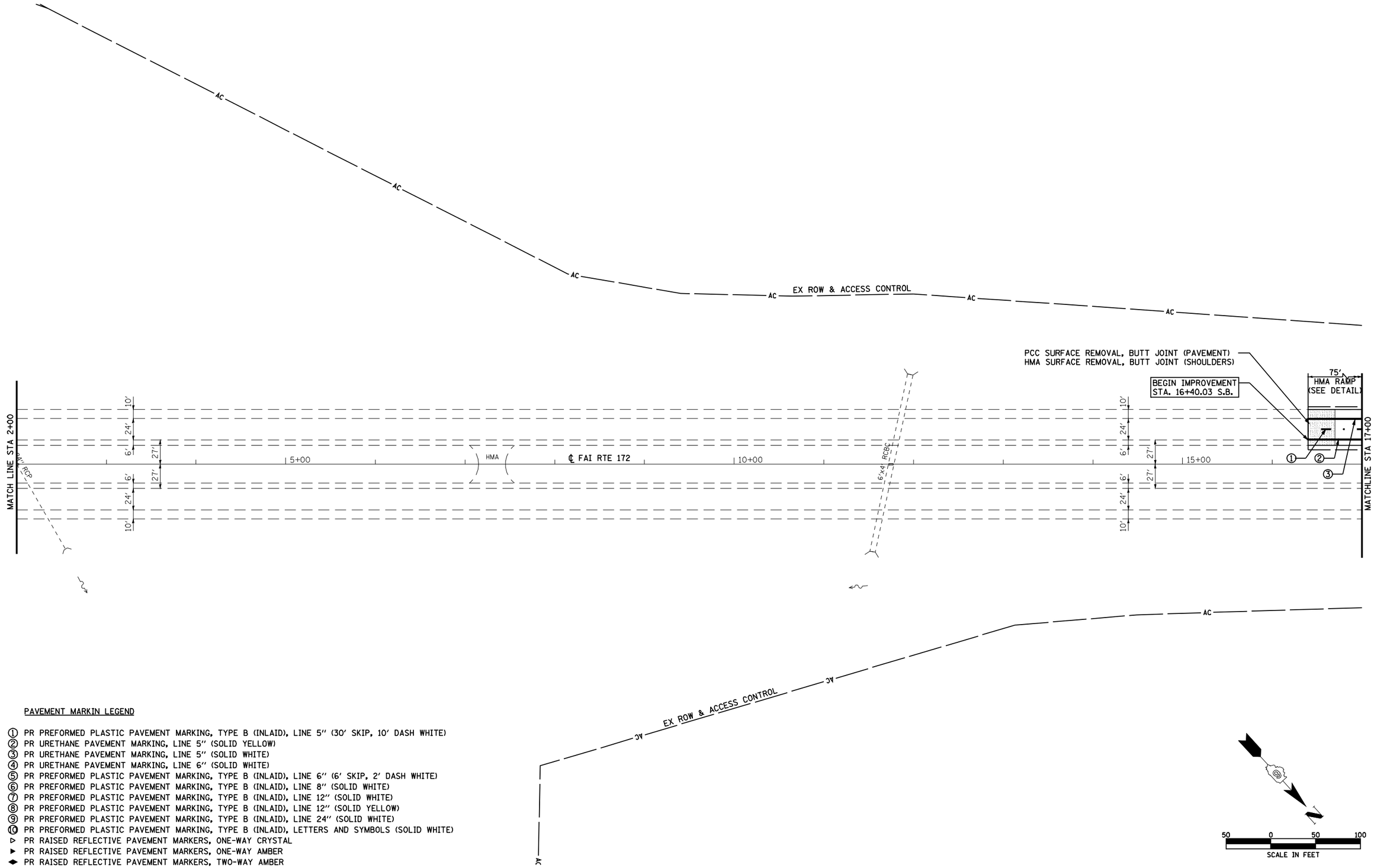
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FAI RTE 172 PLAN

SCALE: 1"=50' | SHEET NO. 1 OF 52 SHEETS | STA. 1013+00 | TO STA. 800+00

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
172	1-(1,2,3,4,5)RS	ADAMS	165	39
		CONTRACT NO. 72A09		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



PAVEMENT MARKIN LEGEND

① PR PREFORMED PLASTIC PAVEMENT MARKING, TYPE B (INLAID), LINE 5" (30' SKIP, 10' DASH WHITE)
② PR URETHANE PAVEMENT MARKING, LINE 5" (SOLID YELLOW)
③ PR URETHANE PAVEMENT MARKING, LINE 5" (SOLID WHITE)
④ PR URETHANE PAVEMENT MARKING, LINE 6" (SOLID WHITE)
⑤ PR PREFORMED PLASTIC PAVEMENT MARKING, TYPE B (INLAID), LINE 6" (6' SKIP, 2' DASH WHITE)
⑥ PR PREFORMED PLASTIC PAVEMENT MARKING, TYPE B (INLAID), LINE 8" (SOLID WHITE)
⑦ PR PREFORMED PLASTIC PAVEMENT MARKING, TYPE B (INLAID), LINE 12" (SOLID WHITE)
⑧ PR PREFORMED PLASTIC PAVEMENT MARKING, TYPE B (INLAID), LINE 12" (SOLID YELLOW)
⑨ PR PREFORMED PLASTIC PAVEMENT MARKING, TYPE B (INLAID), LINE 24" (SOLID WHITE)
⑩ PR PREFORMED PLASTIC PAVEMENT MARKING, TYPE B (INLAID), LETTERS AND SYMBOLS (SOLID WHITE)
▷ PR RAISED REFLECTIVE PAVEMENT MARKERS, ONE-WAY CRYSTAL
▶ PR RAISED REFLECTIVE PAVEMENT MARKERS, ONE-WAY AMBER
◆ PR RAISED REFLECTIVE PAVEMENT MARKERS, TWO-WAY AMBER

50 0 50 100
SCALE IN FEET

FILE NAME = c:\pw_work\PWIDOT\LAUGHLINRL\d0182983\040_Plan.dgn	USER NAME = laughlinrl	DESIGNED -	REVISED -
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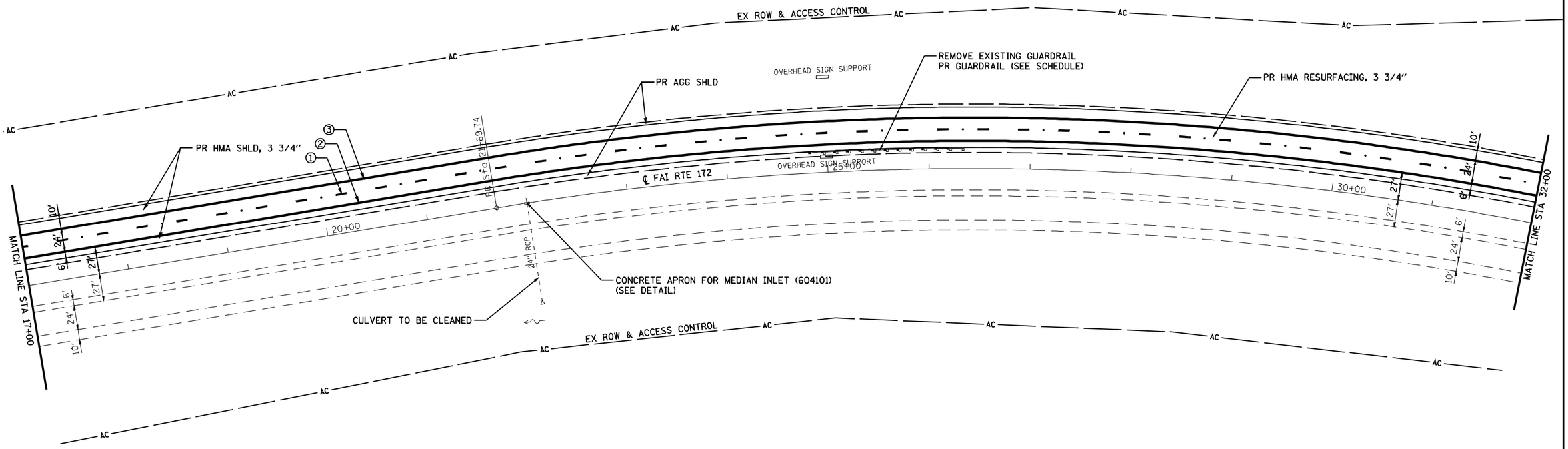
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FAI RTE 172 PLAN

SCALE: 1"=50' | SHEET NO. 2 OF 52 SHEETS | STA. 2+00 | TO STA. 17+00

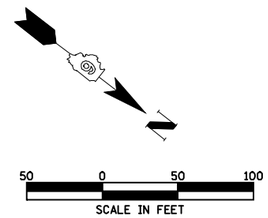
F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
172	1-(1,2,3,4,5)RS	ADAMS	165	40
		CONTRACT NO. 72A09		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



PAVEMENT MARKIN LEGEND

① PR PREFORMED PLASTIC PAVEMENT MARKING, TYPE B (INLAID), LINE 5" (30' SKIP, 10' DASH WHITE)
② PR URETHANE PAVEMENT MARKING, LINE 5" (SOLID YELLOW)
③ PR URETHANE PAVEMENT MARKING, LINE 5" (SOLID WHITE)
④ PR URETHANE PAVEMENT MARKING, LINE 6" (SOLID WHITE)
⑤ PR PREFORMED PLASTIC PAVEMENT MARKING, TYPE B (INLAID), LINE 6" (6' SKIP, 2' DASH WHITE)
⑥ PR PREFORMED PLASTIC PAVEMENT MARKING, TYPE B (INLAID), LINE 8" (SOLID WHITE)
⑦ PR PREFORMED PLASTIC PAVEMENT MARKING, TYPE B (INLAID), LINE 12" (SOLID WHITE)
⑧ PR PREFORMED PLASTIC PAVEMENT MARKING, TYPE B (INLAID), LINE 12" (SOLID YELLOW)
⑨ PR PREFORMED PLASTIC PAVEMENT MARKING, TYPE B (INLAID), LINE 24" (SOLID WHITE)
⑩ PR PREFORMED PLASTIC PAVEMENT MARKING, TYPE B (INLAID), LETTERS AND SYMBOLS (SOLID WHITE)
▷ PR RAISED REFLECTIVE PAVEMENT MARKERS, ONE-WAY CRYSTAL
▶ PR RAISED REFLECTIVE PAVEMENT MARKERS, ONE-WAY AMBER
◆ PR RAISED REFLECTIVE PAVEMENT MARKERS, TWO-WAY AMBER

EXIST. CURVE C1
PI STA. = 34+70.04
△ = 48° 49' 32" (RT)
D = 2° 00' 00"
R = 2,864.79'
T = 1,300.30'
L = 2,441.28'
E = 281.29'
EX & PR S.E. = 6.0% (70 MPH DESIGN)
T.R. = 38.60'
S.E. RUN = 270.00'
P.C. STA. = 21+69.74
P.T. STA. = 46+11.02
S.E. ATTAINED:
STA 19+51.14 TO STA 22+59.74
STA 45+21.02 TO STA 48+29.62



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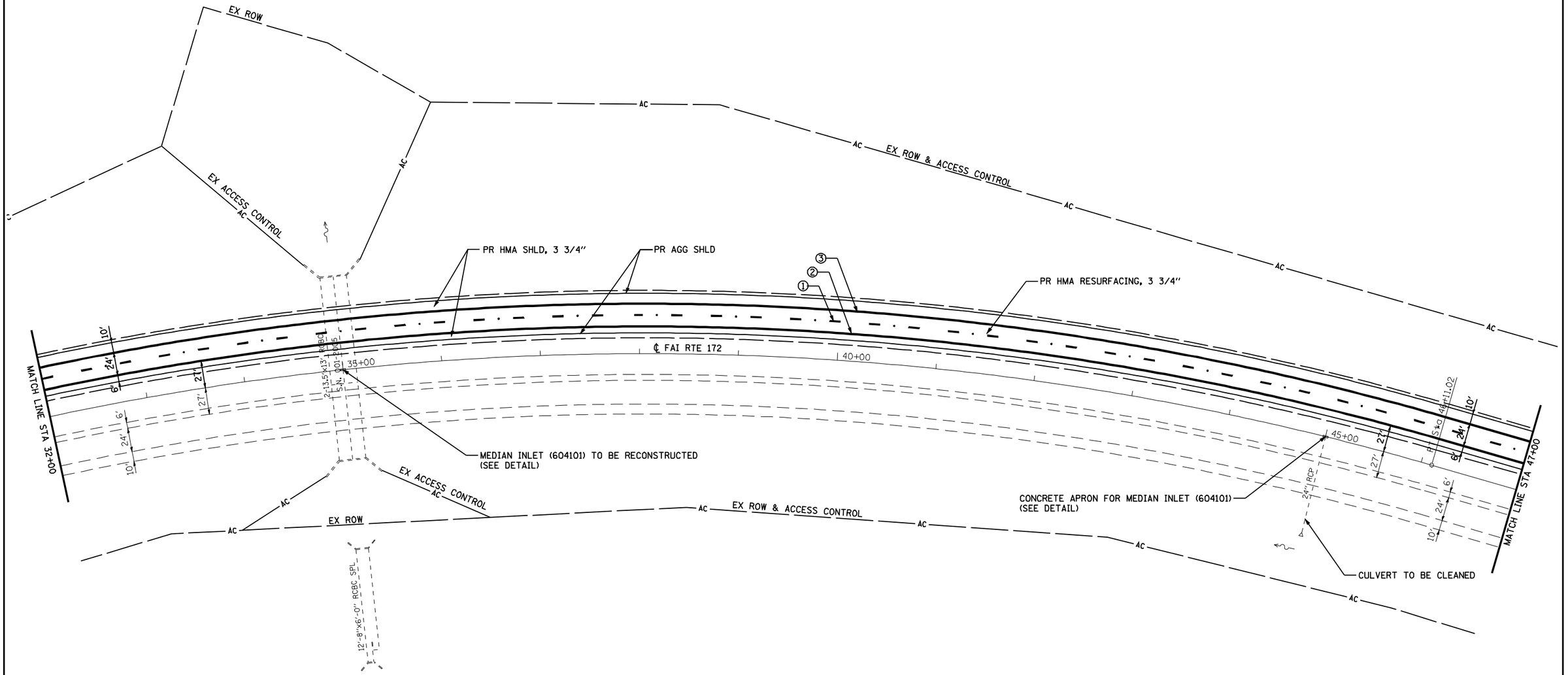
	PLOT DATE = Feb-01-2010 09:35:04AM	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FAI RTE 172 PLAN

SCALE: 1"=50' | SHEET NO. 3 OF 52 SHEETS | STA. 17+00 | TO STA. 32+00

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
172	1-(1,2,3,4,5)RS	ADAMS	165	41
		CONTRACT NO. 72A09		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



PAVEMENT MARKIN LEGEND

① PR PREFORMED PLASTIC PAVEMENT MARKING, TYPE B (INLAID), LINE 5" (30' SKIP, 10' DASH WHITE)
② PR URETHANE PAVEMENT MARKING, LINE 5" (SOLID YELLOW)
③ PR URETHANE PAVEMENT MARKING, LINE 5" (SOLID WHITE)
④ PR URETHANE PAVEMENT MARKING, LINE 6" (SOLID WHITE)
⑤ PR PREFORMED PLASTIC PAVEMENT MARKING, TYPE B (INLAID), LINE 6" (6' SKIP, 2' DASH WHITE)
⑥ PR PREFORMED PLASTIC PAVEMENT MARKING, TYPE B (INLAID), LINE 8" (SOLID WHITE)
⑦ PR PREFORMED PLASTIC PAVEMENT MARKING, TYPE B (INLAID), LINE 12" (SOLID WHITE)
⑧ PR PREFORMED PLASTIC PAVEMENT MARKING, TYPE B (INLAID), LINE 12" (SOLID YELLOW)
⑨ PR PREFORMED PLASTIC PAVEMENT MARKING, TYPE B (INLAID), LINE 24" (SOLID WHITE)
⑩ PR PREFORMED PLASTIC PAVEMENT MARKING, TYPE B (INLAID), LETTERS AND SYMBOLS (SOLID WHITE)
▷ PR RAISED REFLECTIVE PAVEMENT MARKERS, ONE-WAY CRYSTAL
▶ PR RAISED REFLECTIVE PAVEMENT MARKERS, ONE-WAY AMBER
◆ PR RAISED REFLECTIVE PAVEMENT MARKERS, TWO-WAY AMBER

EXIST. CURVE C1
PI STA. = 34+70.04
△ = 48° 49' 32" (RT)
D = 2° 00' 00"
R = 2,864.79'
T = 1,300.30'
L = 2,441.28'
E = 281.29'
EX & PR S.E. = 6.0% (70 MPH DESIGN)
T.R. = 38.60'
S.E. RUN = 270.00'
P.C. STA. = 21+69.74
P.T. STA. = 46+11.02
S.E. ATTAINED:
STA 19+51.14 TO STA 22+59.74
STA 45+21.02 TO STA 48+29.62

50 0 50 100
SCALE IN FEET

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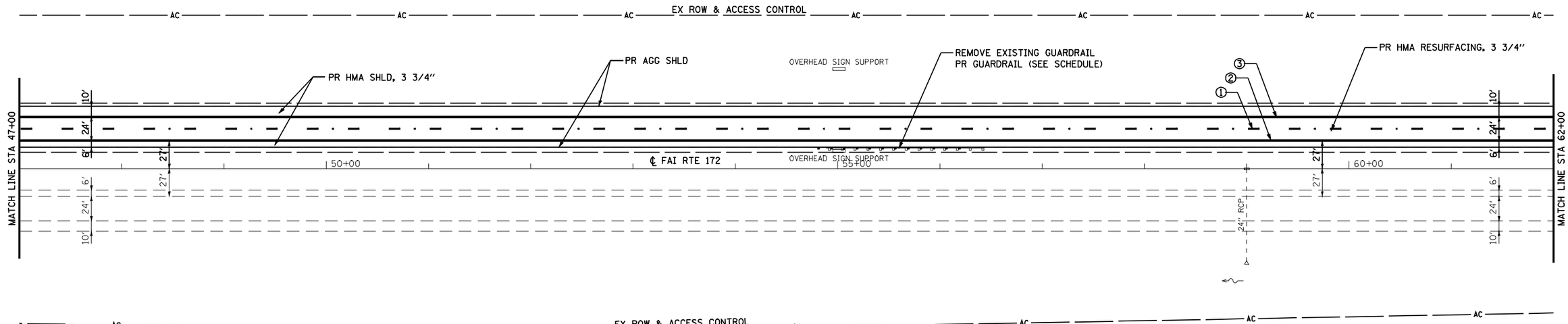
	PLOT DATE = Feb-01-2010 09:35:06AM	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FAI RTE 172 PLAN

SCALE: 1"=50' | SHEET NO. 4 OF 52 SHEETS | STA. 32+00 | TO STA. 47+00

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
172	1-(1,2,3,4,5)RS	ADAMS	165	42
		CONTRACT NO. 72A09		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



PAVEMENT MARKIN LEGEND

① PR PREFORMED PLASTIC PAVEMENT MARKING, TYPE B (INLAID), LINE 5" (30' SKIP, 10' DASH WHITE)
② PR URETHANE PAVEMENT MARKING, LINE 5" (SOLID YELLOW)
③ PR URETHANE PAVEMENT MARKING, LINE 5" (SOLID WHITE)
④ PR URETHANE PAVEMENT MARKING, LINE 6" (SOLID WHITE)
⑤ PR PREFORMED PLASTIC PAVEMENT MARKING, TYPE B (INLAID), LINE 6" (6' SKIP, 2' DASH WHITE)
⑥ PR PREFORMED PLASTIC PAVEMENT MARKING, TYPE B (INLAID), LINE 8" (SOLID WHITE)
⑦ PR PREFORMED PLASTIC PAVEMENT MARKING, TYPE B (INLAID), LINE 12" (SOLID WHITE)
⑧ PR PREFORMED PLASTIC PAVEMENT MARKING, TYPE B (INLAID), LINE 12" (SOLID YELLOW)
⑨ PR PREFORMED PLASTIC PAVEMENT MARKING, TYPE B (INLAID), LINE 24" (SOLID WHITE)
⑩ PR PREFORMED PLASTIC PAVEMENT MARKING, TYPE B (INLAID), LETTERS AND SYMBOLS (SOLID WHITE)
▷ PR RAISED REFLECTIVE PAVEMENT MARKERS, ONE-WAY CRYSTAL
▶ PR RAISED REFLECTIVE PAVEMENT MARKERS, ONE-WAY AMBER
◀▶ PR RAISED REFLECTIVE PAVEMENT MARKERS, TWO-WAY AMBER

50 0 50 100
SCALE IN FEET

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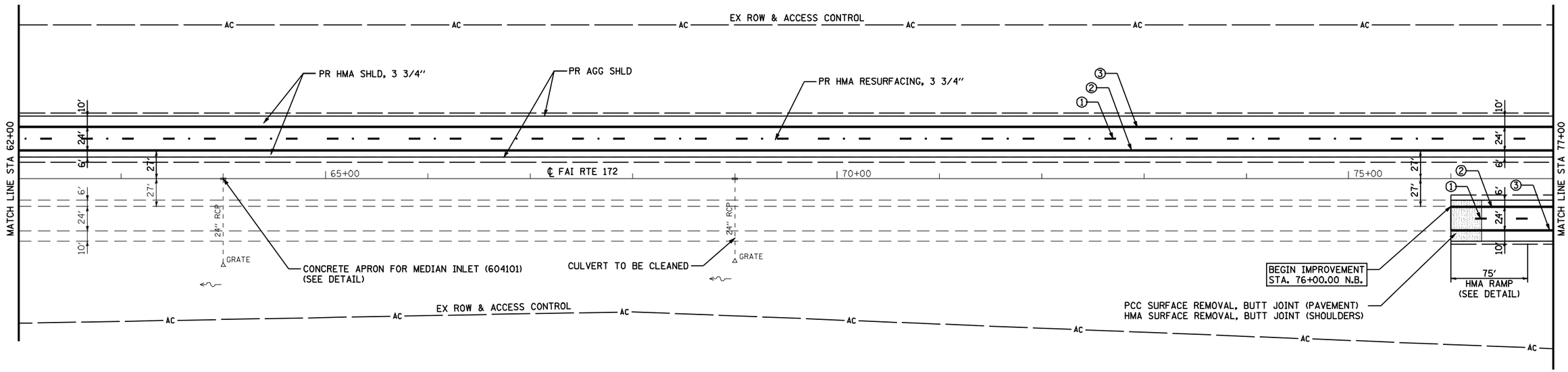
	PLOT DATE = Feb-01-2010 09:35:09AM	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FAI RTE 172 PLAN

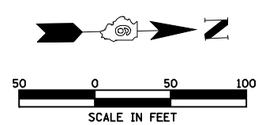
SCALE: 1"=50' | SHEET NO. 5 OF 52 SHEETS | STA. 47+00 | TO STA. 62+00

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
172	1-(1,2,3,4,5)RS	ADAMS	165	43
		CONTRACT NO. 72A09		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



PAVEMENT MARKIN LEGEND

① PR PREFORMED PLASTIC PAVEMENT MARKING, TYPE B (INLAID), LINE 5" (30' SKIP, 10' DASH WHITE)
② PR URETHANE PAVEMENT MARKING, LINE 5" (SOLID YELLOW)
③ PR URETHANE PAVEMENT MARKING, LINE 5" (SOLID WHITE)
④ PR URETHANE PAVEMENT MARKING, LINE 6" (SOLID WHITE)
⑤ PR PREFORMED PLASTIC PAVEMENT MARKING, TYPE B (INLAID), LINE 6" (6' SKIP, 2' DASH WHITE)
⑥ PR PREFORMED PLASTIC PAVEMENT MARKING, TYPE B (INLAID), LINE 8" (SOLID WHITE)
⑦ PR PREFORMED PLASTIC PAVEMENT MARKING, TYPE B (INLAID), LINE 12" (SOLID WHITE)
⑧ PR PREFORMED PLASTIC PAVEMENT MARKING, TYPE B (INLAID), LINE 12" (SOLID YELLOW)
⑨ PR PREFORMED PLASTIC PAVEMENT MARKING, TYPE B (INLAID), LINE 24" (SOLID WHITE)
⑩ PR PREFORMED PLASTIC PAVEMENT MARKING, TYPE B (INLAID), LETTERS AND SYMBOLS (SOLID WHITE)
▷ PR RAISED REFLECTIVE PAVEMENT MARKERS, ONE-WAY CRYSTAL
▶ PR RAISED REFLECTIVE PAVEMENT MARKERS, ONE-WAY AMBER
◆ PR RAISED REFLECTIVE PAVEMENT MARKERS, TWO-WAY AMBER



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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FAI RTE 172 PLAN

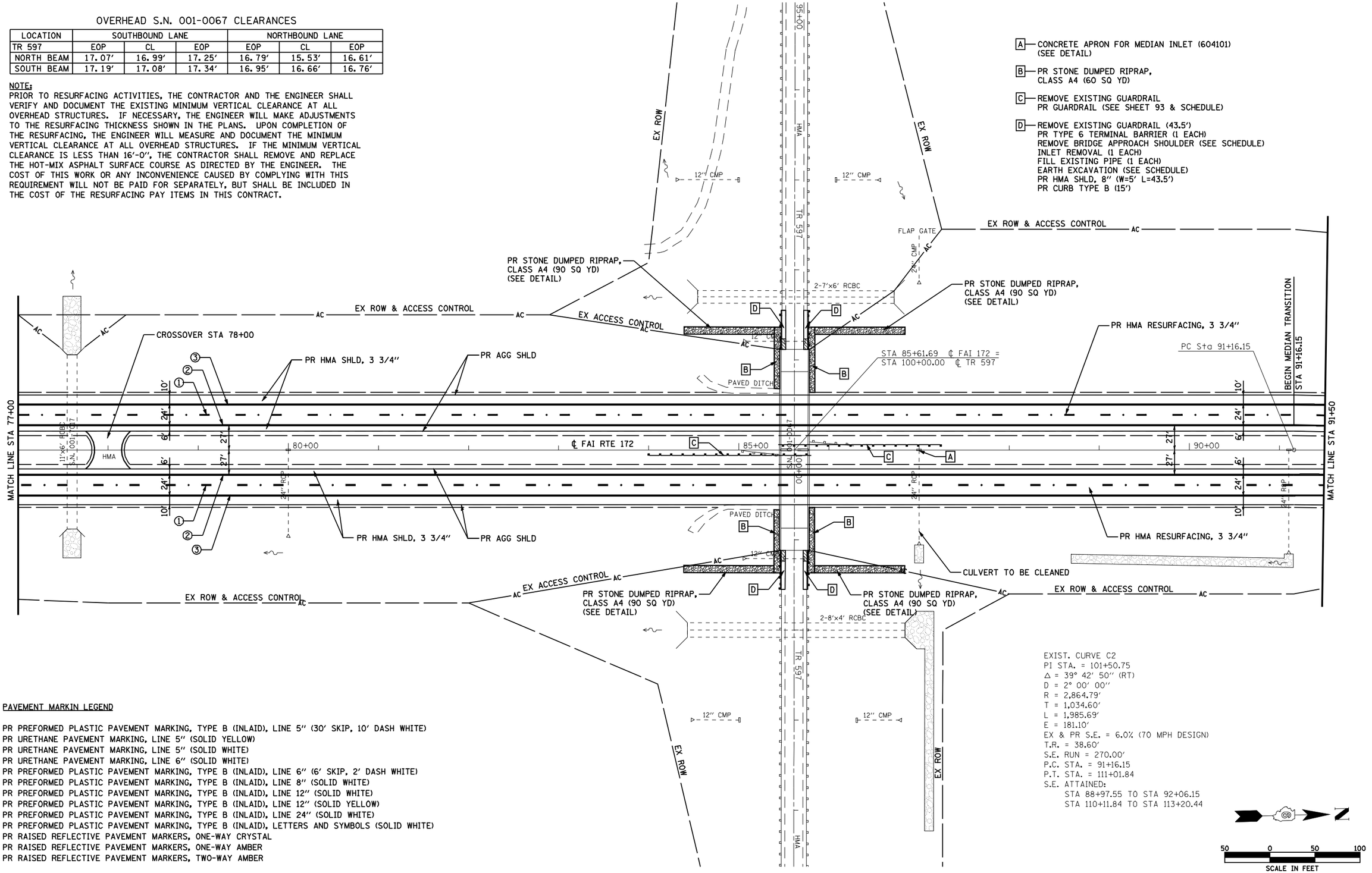
SCALE: 1"=50' | SHEET NO. 6 OF 52 SHEETS | STA. 62+00 | TO STA. 77+00

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
172	1-(1,2,3,4,5)RS	ADAMS	165	44
		CONTRACT NO. 72A09		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

OVERHEAD S.N. 001-0067 CLEARANCES

LOCATION	SOUTHBOUND LANE			NORTHBOUND LANE		
TR 597	EOP	CL	EOP	EOP	CL	EOP
NORTH BEAM	17.07′	16.99′	17.25′	16.79′	15.53′	16.61′
SOUTH BEAM	17.19′	17.08′	17.34′	16.95′	16.66′	16.76′

NOTE:
PRIOR TO RESURFACING ACTIVITIES, THE CONTRACTOR AND THE ENGINEER SHALL VERIFY AND DOCUMENT THE EXISTING MINIMUM VERTICAL CLEARANCE AT ALL OVERHEAD STRUCTURES. IF NECESSARY, THE ENGINEER WILL MAKE ADJUSTMENTS TO THE RESURFACING THICKNESS SHOWN IN THE PLANS. UPON COMPLETION OF THE RESURFACING, THE ENGINEER WILL MEASURE AND DOCUMENT THE MINIMUM VERTICAL CLEARANCE AT ALL OVERHEAD STRUCTURES. IF THE MINIMUM VERTICAL CLEARANCE IS LESS THAN 16′-0″, THE CONTRACTOR SHALL REMOVE AND REPLACE THE HOT-MIX ASPHALT SURFACE COURSE AS DIRECTED BY THE ENGINEER. THE COST OF THIS WORK OR ANY INCONVENIENCE CAUSED BY COMPLYING WITH THIS REQUIREMENT WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE COST OF THE RESURFACING PAY ITEMS IN THIS CONTRACT.



EXIST. CURVE C2
PI STA. = 101+50.75
Δ = 39° 42′ 50″ (RT)
D = 2° 00′ 00″
R = 2,864.79′
T = 1,034.60′
L = 1,985.69′
E = 181.10′
EX & PR S.E. = 6.0% (70 MPH DESIGN)
T.R. = 38.60′
S.E. RUN = 270.00′
P.C. STA. = 91+16.15
P.T. STA. = 111+01.84
S.E. ATTAINED:
STA 88+97.55 TO STA 92+06.15
STA 110+11.84 TO STA 113+20.44

PAVEMENT MARKIN LEGEND

① PR PREFORMED PLASTIC PAVEMENT MARKING, TYPE B (INLAID), LINE 5″ (30′ SKIP, 10′ DASH WHITE)
② PR URETHANE PAVEMENT MARKING, LINE 5″ (SOLID YELLOW)
③ PR URETHANE PAVEMENT MARKING, LINE 5″ (SOLID WHITE)
④ PR URETHANE PAVEMENT MARKING, LINE 6″ (SOLID WHITE)
⑤ PR PREFORMED PLASTIC PAVEMENT MARKING, TYPE B (INLAID), LINE 6″ (6′ SKIP, 2′ DASH WHITE)
⑥ PR PREFORMED PLASTIC PAVEMENT MARKING, TYPE B (INLAID), LINE 8″ (SOLID WHITE)
⑦ PR PREFORMED PLASTIC PAVEMENT MARKING, TYPE B (INLAID), LINE 12″ (SOLID WHITE)
⑧ PR PREFORMED PLASTIC PAVEMENT MARKING, TYPE B (INLAID), LINE 12″ (SOLID YELLOW)
⑨ PR PREFORMED PLASTIC PAVEMENT MARKING, TYPE B (INLAID), LINE 24″ (SOLID WHITE)
⑩ PR PREFORMED PLASTIC PAVEMENT MARKING, TYPE B (INLAID), LETTERS AND SYMBOLS (SOLID WHITE)
▷ PR RAISED REFLECTIVE PAVEMENT MARKERS, ONE-WAY CRYSTAL
▶ PR RAISED REFLECTIVE PAVEMENT MARKERS, ONE-WAY AMBER
◀▶ PR RAISED REFLECTIVE PAVEMENT MARKERS, TWO-WAY AMBER

50 0 50 100
SCALE IN FEET

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		DRAWN -	REVISED -
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	PLOT DATE = Feb-01-2010 09:35:13AM	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FAI RTE 172 PLAN

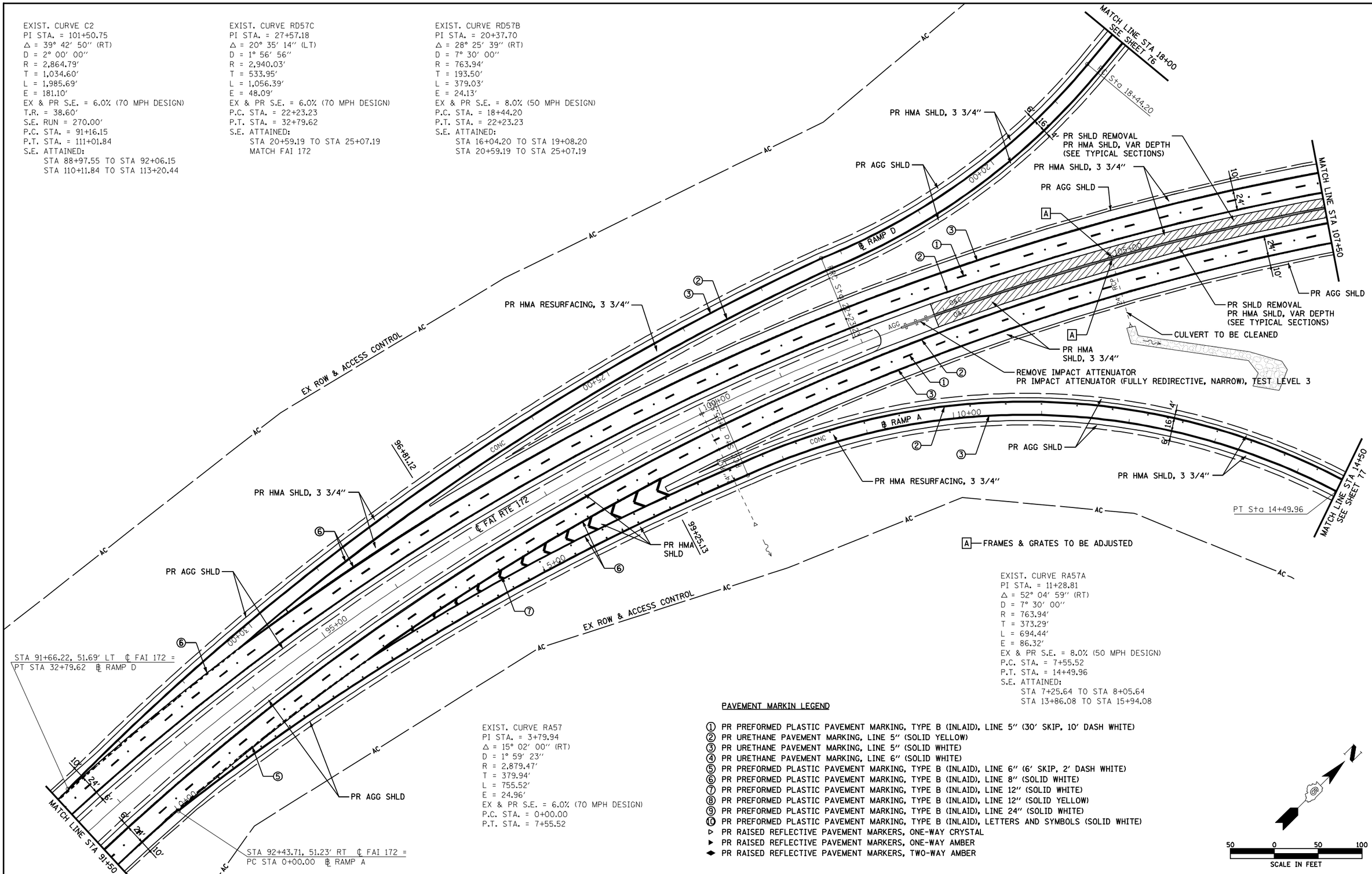
SCALE: 1″=50′ | SHEET NO. 7 OF 52 SHEETS | STA. 77+00 | TO STA. 91+50

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
172	1-(1,2,3,4,5)RS	ADAMS	165	45
		CONTRACT NO. 72A09		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

EXIST. CURVE C2
PI STA. = 101+50.75
Δ = 39° 42′ 50″ (RT)
D = 2° 00′ 00″
R = 2,864.79′
T = 1,034.60′
L = 1,985.69′
E = 181.10′
EX & PR S.E. = 6.0% (70 MPH DESIGN)
T.R. = 38.60′
S.E. RUN = 270.00′
P.C. STA. = 91+16.15
P.T. STA. = 111+01.84
S.E. ATTAINED:
STA 88+97.55 TO STA 92+06.15
STA 110+11.84 TO STA 113+20.44

EXIST. CURVE RD57C
PI STA. = 27+57.18
Δ = 20° 35′ 14″ (LT)
D = 1° 56′ 56″
R = 2,940.03′
T = 533.95′
L = 1,056.39′
E = 48.09′
EX & PR S.E. = 6.0% (70 MPH DESIGN)
P.C. STA. = 22+23.23
P.T. STA. = 32+79.62
S.E. ATTAINED:
STA 20+59.19 TO STA 25+07.19
MATCH FAI 172

EXIST. CURVE RD57B
PI STA. = 20+37.70
Δ = 28° 25′ 39″ (RT)
D = 7° 30′ 00″
R = 763.94′
T = 193.50′
L = 379.03′
E = 24.13′
EX & PR S.E. = 8.0% (50 MPH DESIGN)
P.C. STA. = 18+44.20
P.T. STA. = 22+23.23
S.E. ATTAINED:
STA 16+04.20 TO STA 19+08.20
STA 20+59.19 TO STA 25+07.19



EXIST. CURVE RA57A
PI STA. = 11+28.81
Δ = 52° 04′ 59″ (RT)
D = 7° 30′ 00″
R = 763.94′
T = 373.29′
L = 694.44′
E = 86.32′
EX & PR S.E. = 8.0% (50 MPH DESIGN)
P.C. STA. = 7+55.52
P.T. STA. = 14+49.96
S.E. ATTAINED:
STA 7+25.64 TO STA 8+05.64
STA 13+86.08 TO STA 15+94.08

EXIST. CURVE RA57
PI STA. = 3+79.94
Δ = 15° 02′ 00″ (RT)
D = 1° 59′ 23″
R = 2,879.47′
T = 379.94′
L = 755.52′
E = 24.96′
EX & PR S.E. = 6.0% (70 MPH DESIGN)
P.C. STA. = 0+00.00
P.T. STA. = 7+55.52

PAVEMENT MARKIN LEGEND

① PR PREFORMED PLASTIC PAVEMENT MARKING, TYPE B (INLAID), LINE 5″ (30′ SKIP, 10′ DASH WHITE)
② PR URETHANE PAVEMENT MARKING, LINE 5″ (SOLID YELLOW)
③ PR URETHANE PAVEMENT MARKING, LINE 5″ (SOLID WHITE)
④ PR URETHANE PAVEMENT MARKING, LINE 6″ (SOLID WHITE)
⑤ PR PREFORMED PLASTIC PAVEMENT MARKING, TYPE B (INLAID), LINE 6″ (6′ SKIP, 2′ DASH WHITE)
⑥ PR PREFORMED PLASTIC PAVEMENT MARKING, TYPE B (INLAID), LINE 8″ (SOLID WHITE)
⑦ PR PREFORMED PLASTIC PAVEMENT MARKING, TYPE B (INLAID), LINE 12″ (SOLID WHITE)
⑧ PR PREFORMED PLASTIC PAVEMENT MARKING, TYPE B (INLAID), LINE 12″ (SOLID YELLOW)
⑨ PR PREFORMED PLASTIC PAVEMENT MARKING, TYPE B (INLAID), LINE 24″ (SOLID WHITE)
⑩ PR PREFORMED PLASTIC PAVEMENT MARKING, TYPE B (INLAID), LETTERS AND SYMBOLS (SOLID WHITE)
▷ PR RAISED REFLECTIVE PAVEMENT MARKERS, ONE-WAY CRYSTAL
▶ PR RAISED REFLECTIVE PAVEMENT MARKERS, ONE-WAY AMBER
◆ PR RAISED REFLECTIVE PAVEMENT MARKERS, TWO-WAY AMBER

50 0 50 100
SCALE IN FEET

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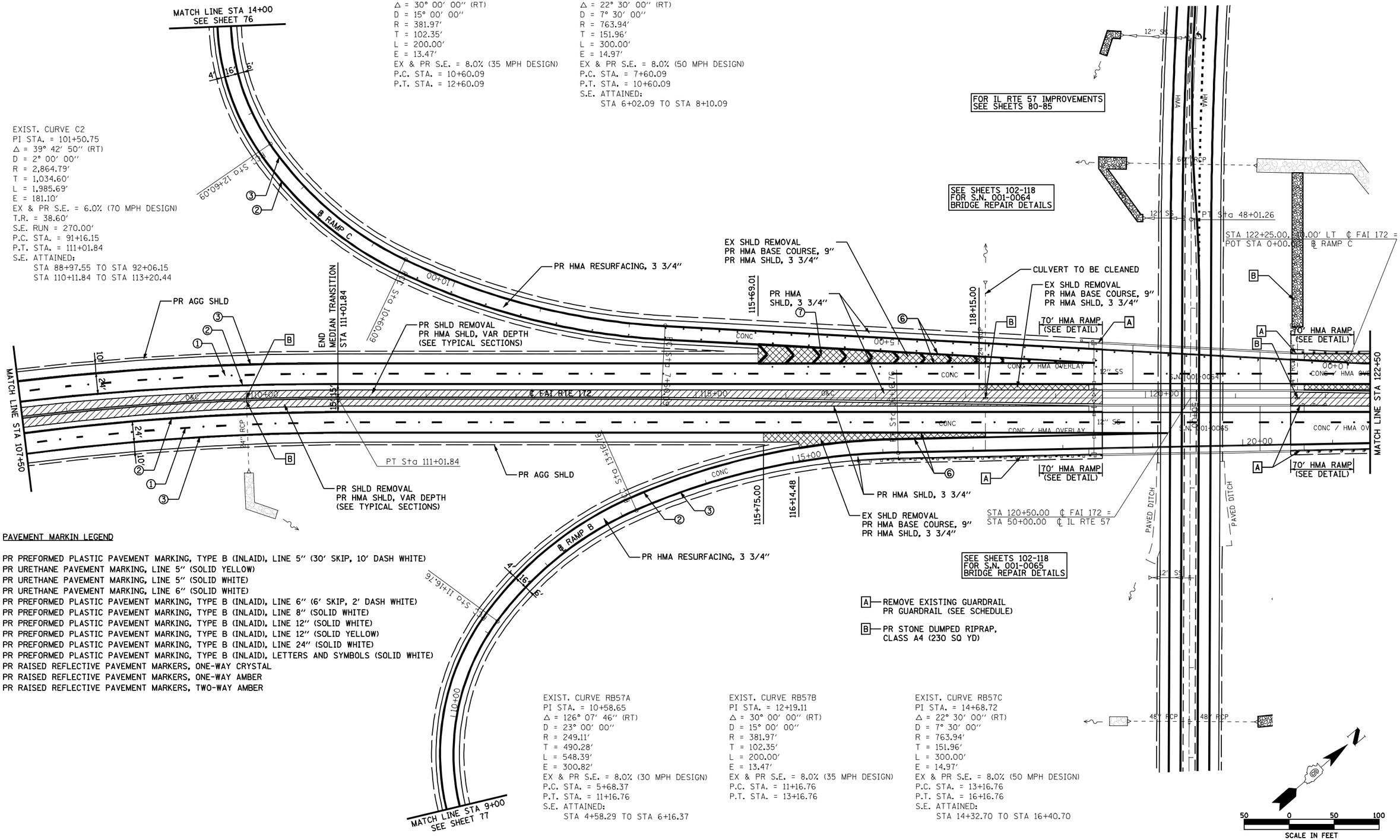
	PLOT DATE = Feb-01-2010 09:35:16AM	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FAI RTE 172 PLAN

SCALE: 1″=50′ | SHEET NO. 8 OF 52 SHEETS | STA. 91+50 TO STA. 107+50

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
172	1-(1,2,3,4,5)RS	ADAMS	165	46
		CONTRACT NO. 72A09		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



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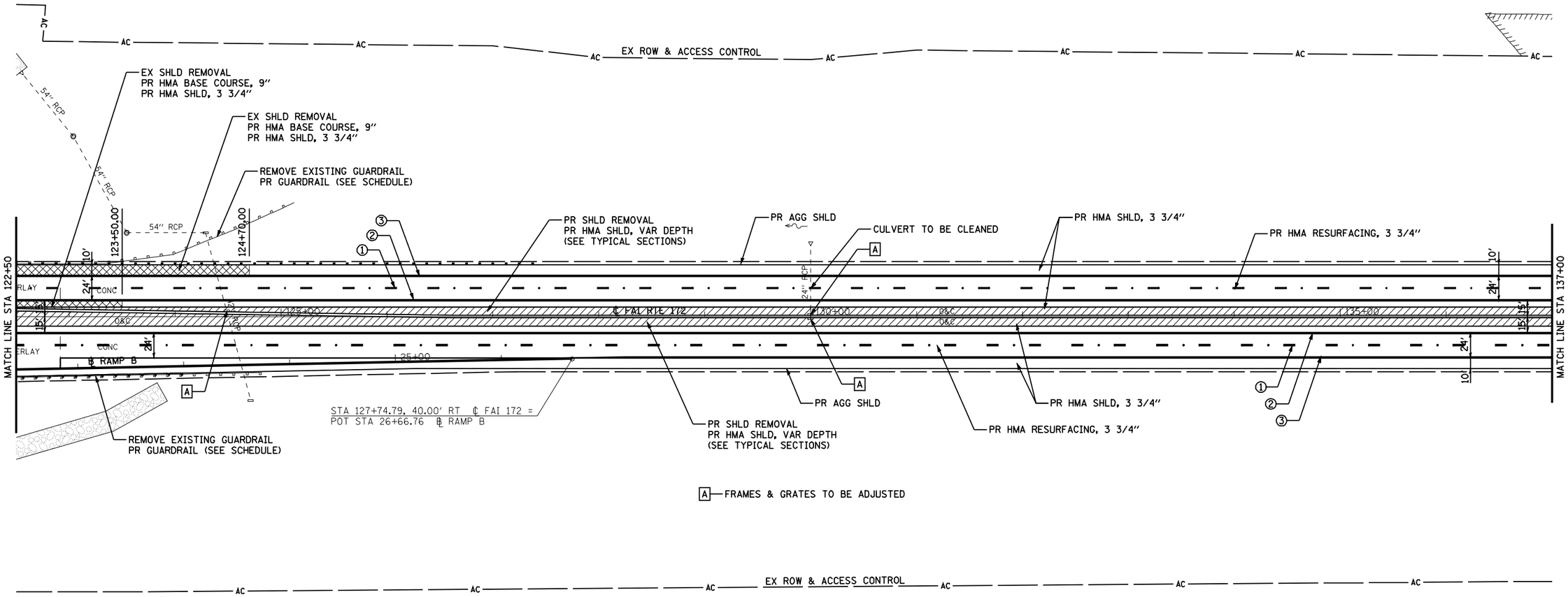
	PLOT DATE = Feb-01-2010 09:35:19AM	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FAI RTE 172 PLAN

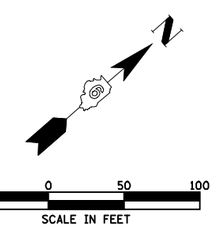
SCALE: 1″=50′ | SHEET NO. 9 OF 52 SHEETS | STA. 107+50 TO STA. 122+50

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
172	1-(1,2,3,4,5)RS	ADAMS	165	47
		CONTRACT NO. 72A09		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



PAVEMENT MARKIN LEGEND

① PR PREFORMED PLASTIC PAVEMENT MARKING, TYPE B (INLAID), LINE 5" (30' SKIP, 10' DASH WHITE)
② PR URETHANE PAVEMENT MARKING, LINE 5" (SOLID YELLOW)
③ PR URETHANE PAVEMENT MARKING, LINE 5" (SOLID WHITE)
④ PR URETHANE PAVEMENT MARKING, LINE 6" (SOLID WHITE)
⑤ PR PREFORMED PLASTIC PAVEMENT MARKING, TYPE B (INLAID), LINE 6" (6' SKIP, 2' DASH WHITE)
⑥ PR PREFORMED PLASTIC PAVEMENT MARKING, TYPE B (INLAID), LINE 8" (SOLID WHITE)
⑦ PR PREFORMED PLASTIC PAVEMENT MARKING, TYPE B (INLAID), LINE 12" (SOLID WHITE)
⑧ PR PREFORMED PLASTIC PAVEMENT MARKING, TYPE B (INLAID), LINE 12" (SOLID YELLOW)
⑨ PR PREFORMED PLASTIC PAVEMENT MARKING, TYPE B (INLAID), LINE 24" (SOLID WHITE)
⑩ PR PREFORMED PLASTIC PAVEMENT MARKING, TYPE B (INLAID), LETTERS AND SYMBOLS (SOLID WHITE)
▷ PR RAISED REFLECTIVE PAVEMENT MARKERS, ONE-WAY CRYSTAL
▶ PR RAISED REFLECTIVE PAVEMENT MARKERS, ONE-WAY AMBER
◆ PR RAISED REFLECTIVE PAVEMENT MARKERS, TWO-WAY AMBER



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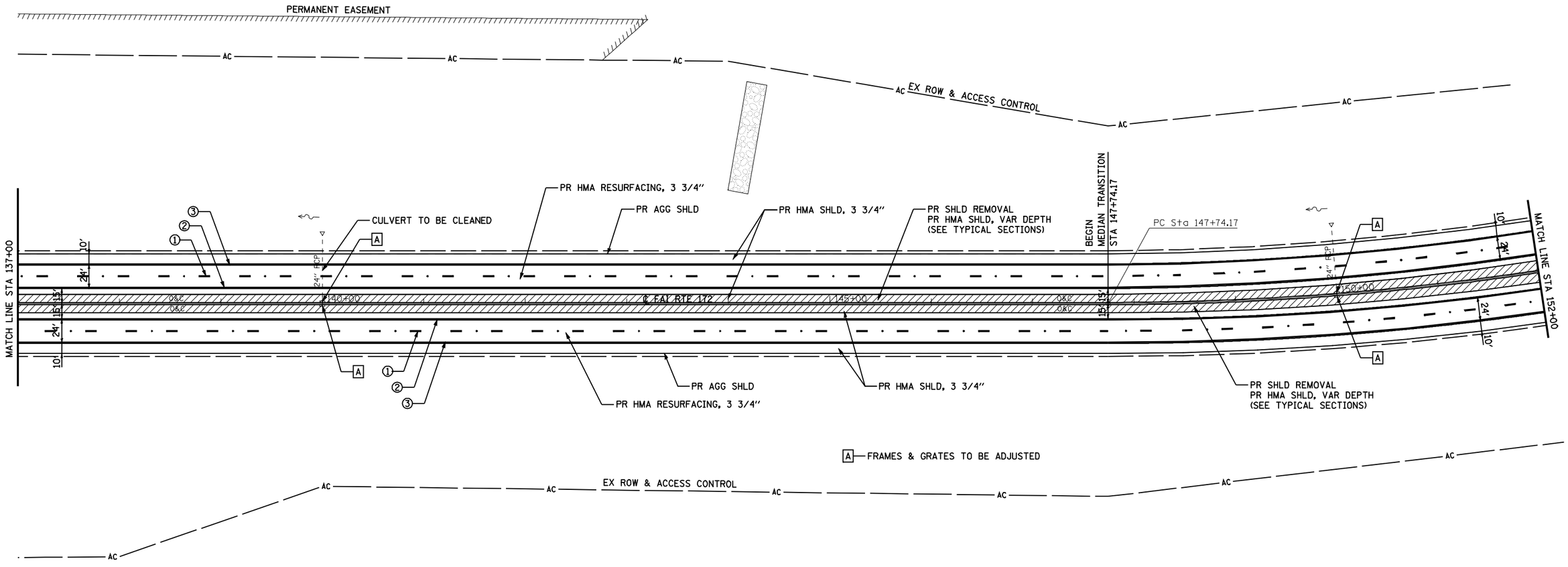
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FAI RTE 172 PLAN

SCALE: 1"=50' | SHEET NO. 10 OF 52 SHEETS | STA. 122+50 | TO STA. 137+00

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
172	1-(1,2,3,4,5)RS	ADAMS	165	48
		CONTRACT NO. 72A09		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

EXIST. CURVE C3
PI STA. = 164+61.07
Δ = 60° 58′ 57″ (LT)
D = 2° 00′ 00″
R = 2,864.79′
T = 1,686.90′
L = 3,049.12′
E = 459.76′
EX & PR S.E. = 6.0% (70 MPH DESIGN)
T.R. = 38.60′
S.E. RUN = 270.00′
P.C. STA. = 147+74.17
P.T. STA. = 178+23.29
S.E. ATTAINED:
STA 145+55.57 TO STA 148+64.17
STA 177+33.29 TO STA 180+41.89



PAVEMENT MARKIN LEGEND

① PR PREFORMED PLASTIC PAVEMENT MARKING, TYPE B (INLAID), LINE 5″ (30′ SKIP, 10′ DASH WHITE)
② PR URETHANE PAVEMENT MARKING, LINE 5″ (SOLID YELLOW)
③ PR URETHANE PAVEMENT MARKING, LINE 5″ (SOLID WHITE)
④ PR URETHANE PAVEMENT MARKING, LINE 6″ (SOLID WHITE)
⑤ PR PREFORMED PLASTIC PAVEMENT MARKING, TYPE B (INLAID), LINE 6″ (6′ SKIP, 2′ DASH WHITE)
⑥ PR PREFORMED PLASTIC PAVEMENT MARKING, TYPE B (INLAID), LINE 8″ (SOLID WHITE)
⑦ PR PREFORMED PLASTIC PAVEMENT MARKING, TYPE B (INLAID), LINE 12″ (SOLID WHITE)
⑧ PR PREFORMED PLASTIC PAVEMENT MARKING, TYPE B (INLAID), LINE 12″ (SOLID YELLOW)
⑨ PR PREFORMED PLASTIC PAVEMENT MARKING, TYPE B (INLAID), LINE 24″ (SOLID WHITE)
⑩ PR PREFORMED PLASTIC PAVEMENT MARKING, TYPE B (INLAID), LETTERS AND SYMBOLS (SOLID WHITE)
▷ PR RAISED REFLECTIVE PAVEMENT MARKERS, ONE-WAY CRYSTAL
▶ PR RAISED REFLECTIVE PAVEMENT MARKERS, ONE-WAY AMBER
◀▶ PR RAISED REFLECTIVE PAVEMENT MARKERS, TWO-WAY AMBER

50 0 50 100
SCALE IN FEET

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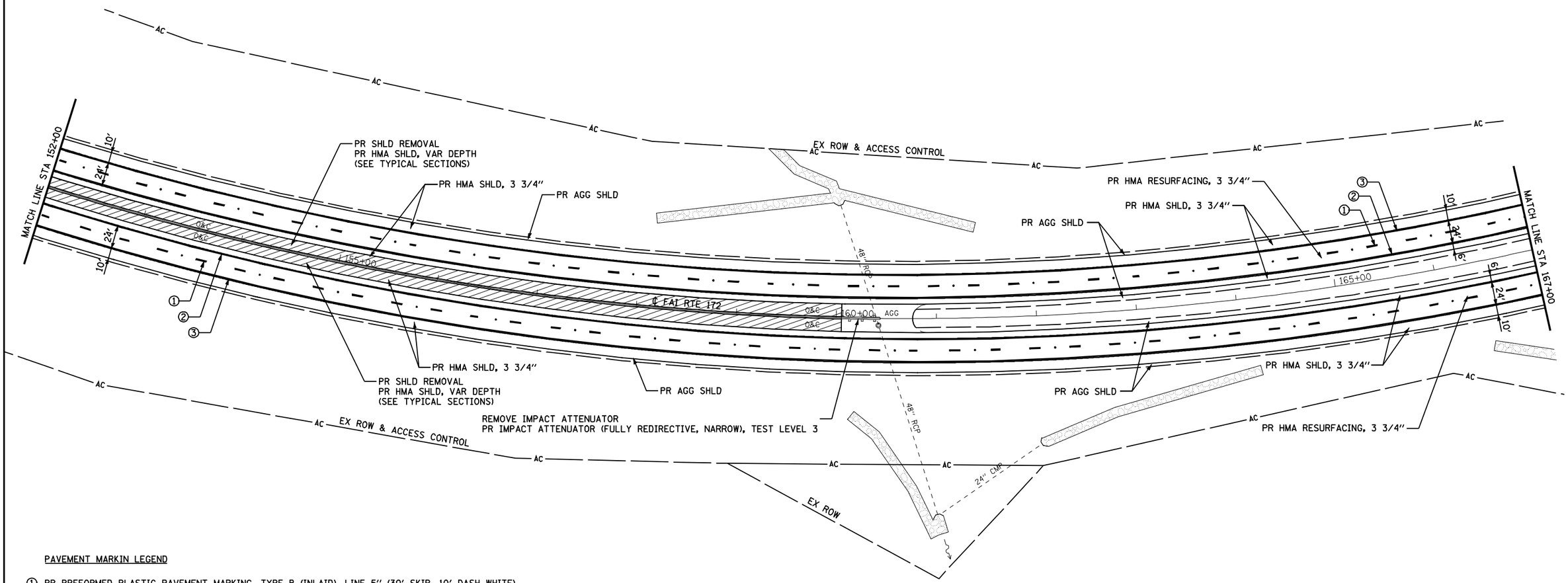
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FAI RTE 172 PLAN

SCALE: 1″=50′ | SHEET NO. 11 OF 52 SHEETS | STA. 137+00 | TO STA. 152+00

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
172	1-(1,2,3,4,5)RS	ADAMS	165	49
		CONTRACT NO. 72A09		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

EXIST. CURVE C3
PI STA. = 164+61.07
Δ = 60° 58′ 57″ (LT)
D = 2° 00′ 00″
R = 2,864.79′
T = 1,686.90′
L = 3,049.12′
E = 459.76′
EX & PR S.E. = 6.0% (70 MPH DESIGN)
T.R. = 38.60′
S.E. RUN = 270.00′
P.C. STA. = 147+74.17
P.T. STA. = 178+23.29
S.E. ATTAINED:
STA 145+55.57 TO STA 148+64.17
STA 177+33.29 TO STA 180+41.89



PAVEMENT MARKIN LEGEND

① PR PREFORMED PLASTIC PAVEMENT MARKING, TYPE B (INLAID), LINE 5″ (30′ SKIP, 10′ DASH WHITE)
② PR URETHANE PAVEMENT MARKING, LINE 5″ (SOLID YELLOW)
③ PR URETHANE PAVEMENT MARKING, LINE 5″ (SOLID WHITE)
④ PR URETHANE PAVEMENT MARKING, LINE 6″ (SOLID WHITE)
⑤ PR PREFORMED PLASTIC PAVEMENT MARKING, TYPE B (INLAID), LINE 6″ (6′ SKIP, 2′ DASH WHITE)
⑥ PR PREFORMED PLASTIC PAVEMENT MARKING, TYPE B (INLAID), LINE 8″ (SOLID WHITE)
⑦ PR PREFORMED PLASTIC PAVEMENT MARKING, TYPE B (INLAID), LINE 12″ (SOLID WHITE)
⑧ PR PREFORMED PLASTIC PAVEMENT MARKING, TYPE B (INLAID), LINE 12″ (SOLID YELLOW)
⑨ PR PREFORMED PLASTIC PAVEMENT MARKING, TYPE B (INLAID), LINE 24″ (SOLID WHITE)
⑩ PR PREFORMED PLASTIC PAVEMENT MARKING, TYPE B (INLAID), LETTERS AND SYMBOLS (SOLID WHITE)
▷ PR RAISED REFLECTIVE PAVEMENT MARKERS, ONE-WAY CRYSTAL
▶ PR RAISED REFLECTIVE PAVEMENT MARKERS, ONE-WAY AMBER
◆ PR RAISED REFLECTIVE PAVEMENT MARKERS, TWO-WAY AMBER

50 0 50 100
SCALE IN FEET

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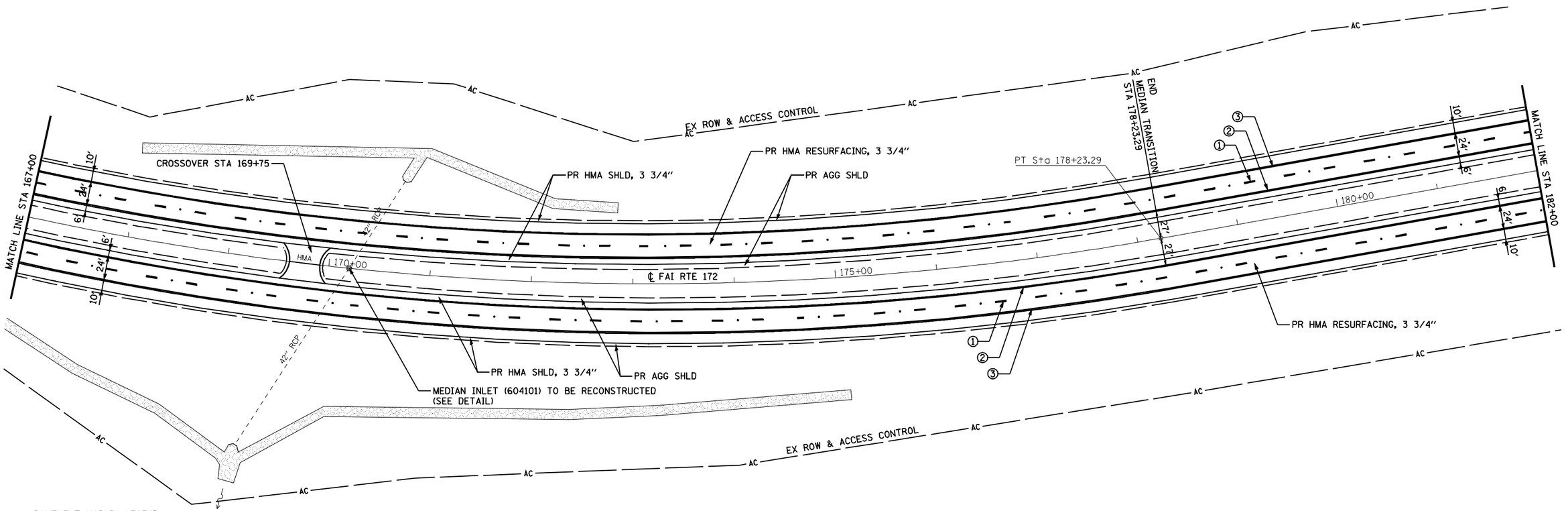
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FAI RTE 172 PLAN

SCALE: 1″=50′ | SHEET NO. 12 OF 52 SHEETS | STA. 152+00 | TO STA. 167+00

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
172	1-(1,2,3,4,5)RS	ADAMS	165	50
		CONTRACT NO. 72A09		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

EXIST. CURVE C3
PI STA. = 164+61.07
Δ = 60° 58′ 57″ (LT)
D = 2° 00′ 00″
R = 2,864.79′
T = 1,686.90′
L = 3,049.12′
E = 459.76′
EX & PR S.E. = 6.0% (70 MPH DESIGN)
T.R. = 38.60′
S.E. RUN = 270.00′
P.C. STA. = 147+74.17
P.T. STA. = 178+23.29
S.E. ATTAINED:
STA 145+55.57 TO STA 148+64.17
STA 177+33.29 TO STA 180+41.89



PAVEMENT MARKIN LEGEND

① PR PREFORMED PLASTIC PAVEMENT MARKING, TYPE B (INLAID), LINE 5″ (30′ SKIP, 10′ DASH WHITE)
② PR URETHANE PAVEMENT MARKING, LINE 5″ (SOLID YELLOW)
③ PR URETHANE PAVEMENT MARKING, LINE 5″ (SOLID WHITE)
④ PR URETHANE PAVEMENT MARKING, LINE 6″ (SOLID WHITE)
⑤ PR PREFORMED PLASTIC PAVEMENT MARKING, TYPE B (INLAID), LINE 6″ (6′ SKIP, 2′ DASH WHITE)
⑥ PR PREFORMED PLASTIC PAVEMENT MARKING, TYPE B (INLAID), LINE 8″ (SOLID WHITE)
⑦ PR PREFORMED PLASTIC PAVEMENT MARKING, TYPE B (INLAID), LINE 12″ (SOLID WHITE)
⑧ PR PREFORMED PLASTIC PAVEMENT MARKING, TYPE B (INLAID), LINE 12″ (SOLID YELLOW)
⑨ PR PREFORMED PLASTIC PAVEMENT MARKING, TYPE B (INLAID), LINE 24″ (SOLID WHITE)
⑩ PR PREFORMED PLASTIC PAVEMENT MARKING, TYPE B (INLAID), LETTERS AND SYMBOLS (SOLID WHITE)
▷ PR RAISED REFLECTIVE PAVEMENT MARKERS, ONE-WAY CRYSTAL
▶ PR RAISED REFLECTIVE PAVEMENT MARKERS, ONE-WAY AMBER
◆ PR RAISED REFLECTIVE PAVEMENT MARKERS, TWO-WAY AMBER

50 0 50 100
SCALE IN FEET

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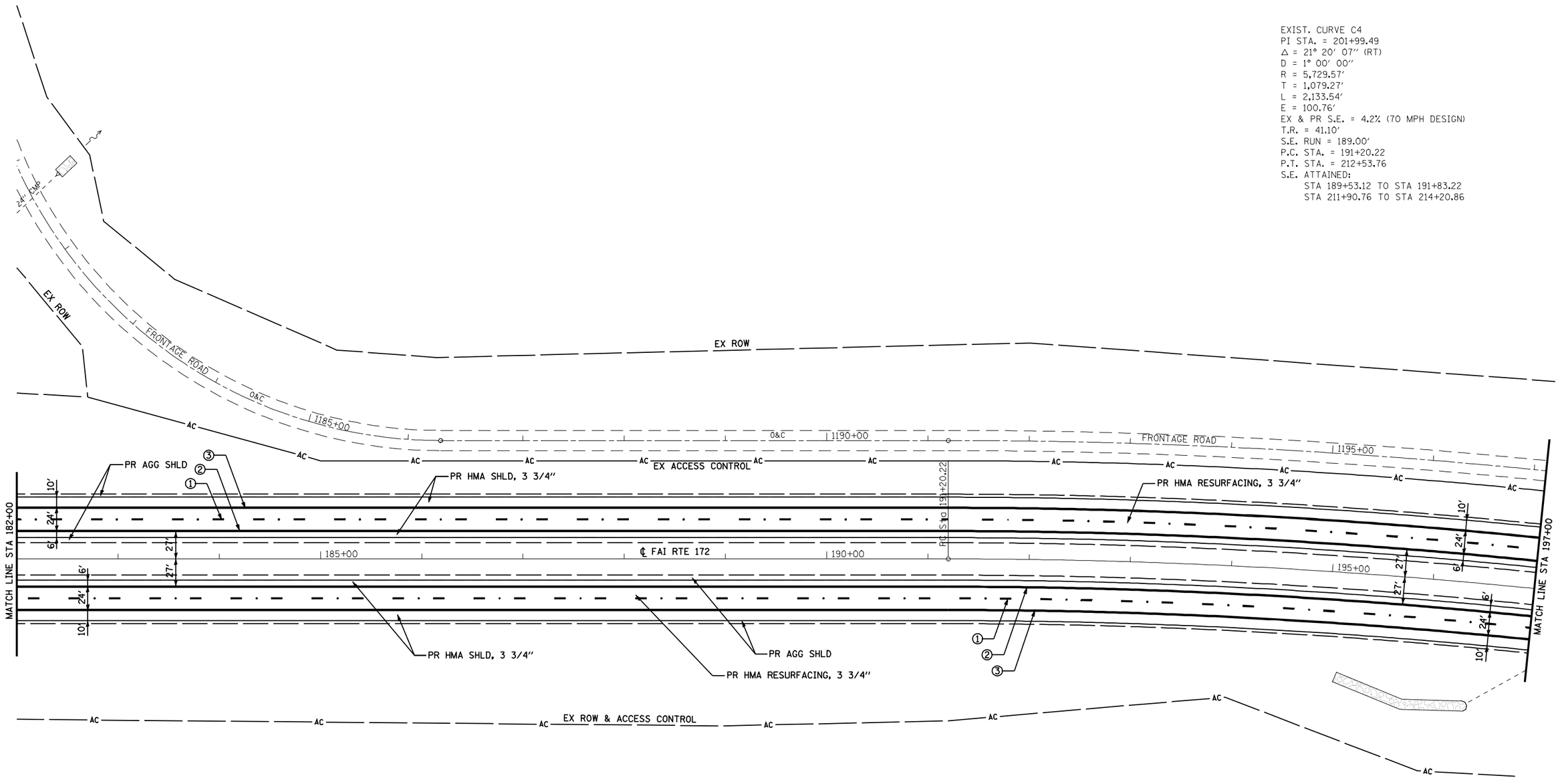
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FAI RTE 172 PLAN

SCALE: 1″=50′ | SHEET NO. 13 OF 52 SHEETS | STA. 167+00 | TO STA. 182+00

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
172	1-(1,2,3,4,5)RS	ADAMS	165	51
		CONTRACT NO. 72A09		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

EXIST. CURVE C4
PI STA. = 201+99.49
Δ = 21° 20′ 07″ (RT)
D = 1° 00′ 00″
R = 5,729.57′
T = 1,079.27′
L = 2,133.54′
E = 100.76′
EX & PR S.E. = 4.2% (70 MPH DESIGN)
T.R. = 41.10′
S.E. RUN = 189.00′
P.C. STA. = 191+20.22
P.T. STA. = 212+53.76
S.E. ATTAINED:
STA 189+53.12 TO STA 191+83.22
STA 211+90.76 TO STA 214+20.86



PAVEMENT MARKIN LEGEND

① PR PREFORMED PLASTIC PAVEMENT MARKING, TYPE B (INLAID), LINE 5″ (30′ SKIP, 10′ DASH WHITE)
② PR URETHANE PAVEMENT MARKING, LINE 5″ (SOLID YELLOW)
③ PR URETHANE PAVEMENT MARKING, LINE 5″ (SOLID WHITE)
④ PR URETHANE PAVEMENT MARKING, LINE 6″ (SOLID WHITE)
⑤ PR PREFORMED PLASTIC PAVEMENT MARKING, TYPE B (INLAID), LINE 6″ (6′ SKIP, 2′ DASH WHITE)
⑥ PR PREFORMED PLASTIC PAVEMENT MARKING, TYPE B (INLAID), LINE 8″ (SOLID WHITE)
⑦ PR PREFORMED PLASTIC PAVEMENT MARKING, TYPE B (INLAID), LINE 12″ (SOLID WHITE)
⑧ PR PREFORMED PLASTIC PAVEMENT MARKING, TYPE B (INLAID), LINE 12″ (SOLID YELLOW)
⑨ PR PREFORMED PLASTIC PAVEMENT MARKING, TYPE B (INLAID), LINE 24″ (SOLID WHITE)
⑩ PR PREFORMED PLASTIC PAVEMENT MARKING, TYPE B (INLAID), LETTERS AND SYMBOLS (SOLID WHITE)
▷ PR RAISED REFLECTIVE PAVEMENT MARKERS, ONE-WAY CRYSTAL
▶ PR RAISED REFLECTIVE PAVEMENT MARKERS, ONE-WAY AMBER
◆ PR RAISED REFLECTIVE PAVEMENT MARKERS, TWO-WAY AMBER

50 0 50 100
SCALE IN FEET

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	PLOT DATE = Feb-01-2010 09:35:39AM	DATE -	REVISED -

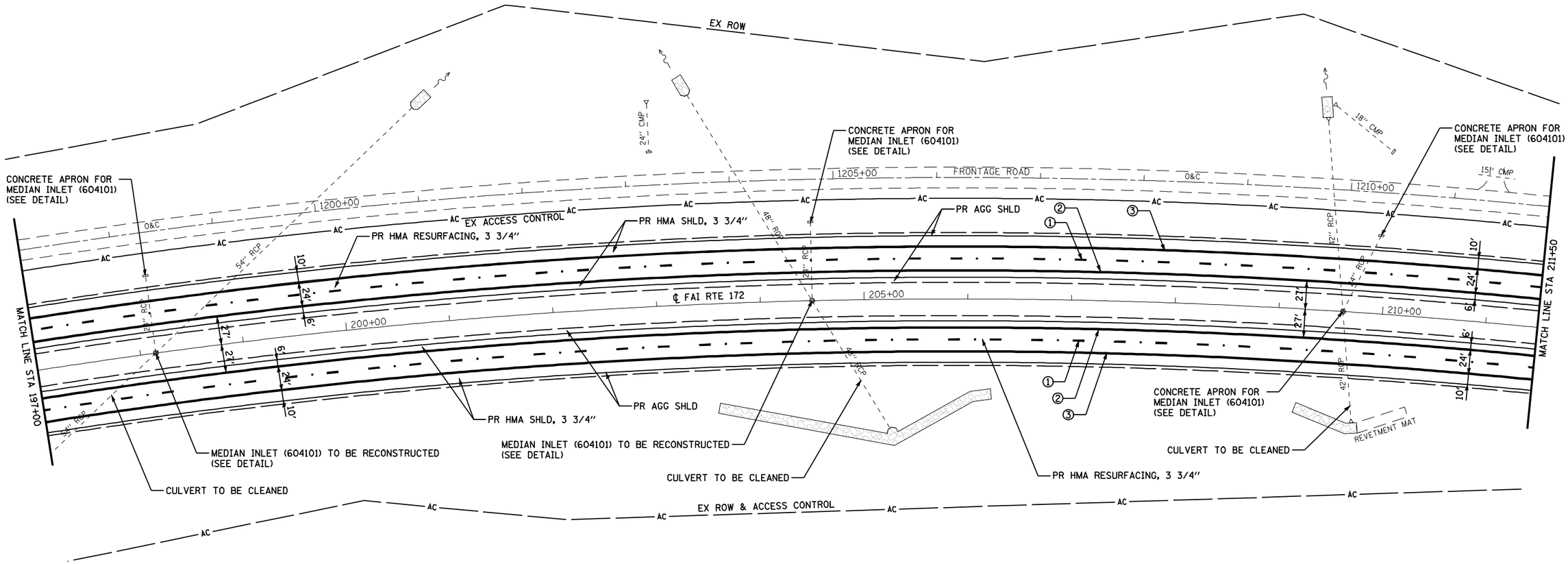
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FAI RTE 172 PLAN

SCALE: 1″=50′ | SHEET NO. 14 OF 52 SHEETS | STA. 182+00 | TO STA. 197+00

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
172	1-(1,2,3,4,5)RS	ADAMS	165	52
		CONTRACT NO. 72A09		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

EXIST. CURVE C4
PI STA. = 201+99.49
△ = 21° 20′ 07″ (RT)
D = 1° 00′ 00″
R = 5,729.57′
T = 1,079.27′
L = 2,133.54′
E = 100.76′
EX & PR S.E. = 4.2% (70 MPH DESIGN)
T.R. = 41.10′
S.E. RUN = 189.00′
P.C. STA. = 191+20.22
P.T. STA. = 212+53.76
S.E. ATTAINED:
STA 189+53.12 TO STA 191+83.22
STA 211+90.76 TO STA 214+20.86



PAVEMENT MARKIN LEGEND

① PR PREFORMED PLASTIC PAVEMENT MARKING, TYPE B (INLAID), LINE 5″ (30′ SKIP, 10′ DASH WHITE)
② PR URETHANE PAVEMENT MARKING, LINE 5″ (SOLID YELLOW)
③ PR URETHANE PAVEMENT MARKING, LINE 5″ (SOLID WHITE)
④ PR URETHANE PAVEMENT MARKING, LINE 6″ (SOLID WHITE)
⑤ PR PREFORMED PLASTIC PAVEMENT MARKING, TYPE B (INLAID), LINE 6″ (6′ SKIP, 2′ DASH WHITE)
⑥ PR PREFORMED PLASTIC PAVEMENT MARKING, TYPE B (INLAID), LINE 8″ (SOLID WHITE)
⑦ PR PREFORMED PLASTIC PAVEMENT MARKING, TYPE B (INLAID), LINE 12″ (SOLID WHITE)
⑧ PR PREFORMED PLASTIC PAVEMENT MARKING, TYPE B (INLAID), LINE 12″ (SOLID YELLOW)
⑨ PR PREFORMED PLASTIC PAVEMENT MARKING, TYPE B (INLAID), LINE 24″ (SOLID WHITE)
⑩ PR PREFORMED PLASTIC PAVEMENT MARKING, TYPE B (INLAID), LETTERS AND SYMBOLS (SOLID WHITE)
▷ PR RAISED REFLECTIVE PAVEMENT MARKERS, ONE-WAY CRYSTAL
▶ PR RAISED REFLECTIVE PAVEMENT MARKERS, ONE-WAY AMBER
◆ PR RAISED REFLECTIVE PAVEMENT MARKERS, TWO-WAY AMBER

N

50 0 50 100
SCALE IN FEET

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		DRAWN -	REVISED -
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	PLOT DATE = Feb-01-2010 09:35:41AM	DATE -	REVISED -

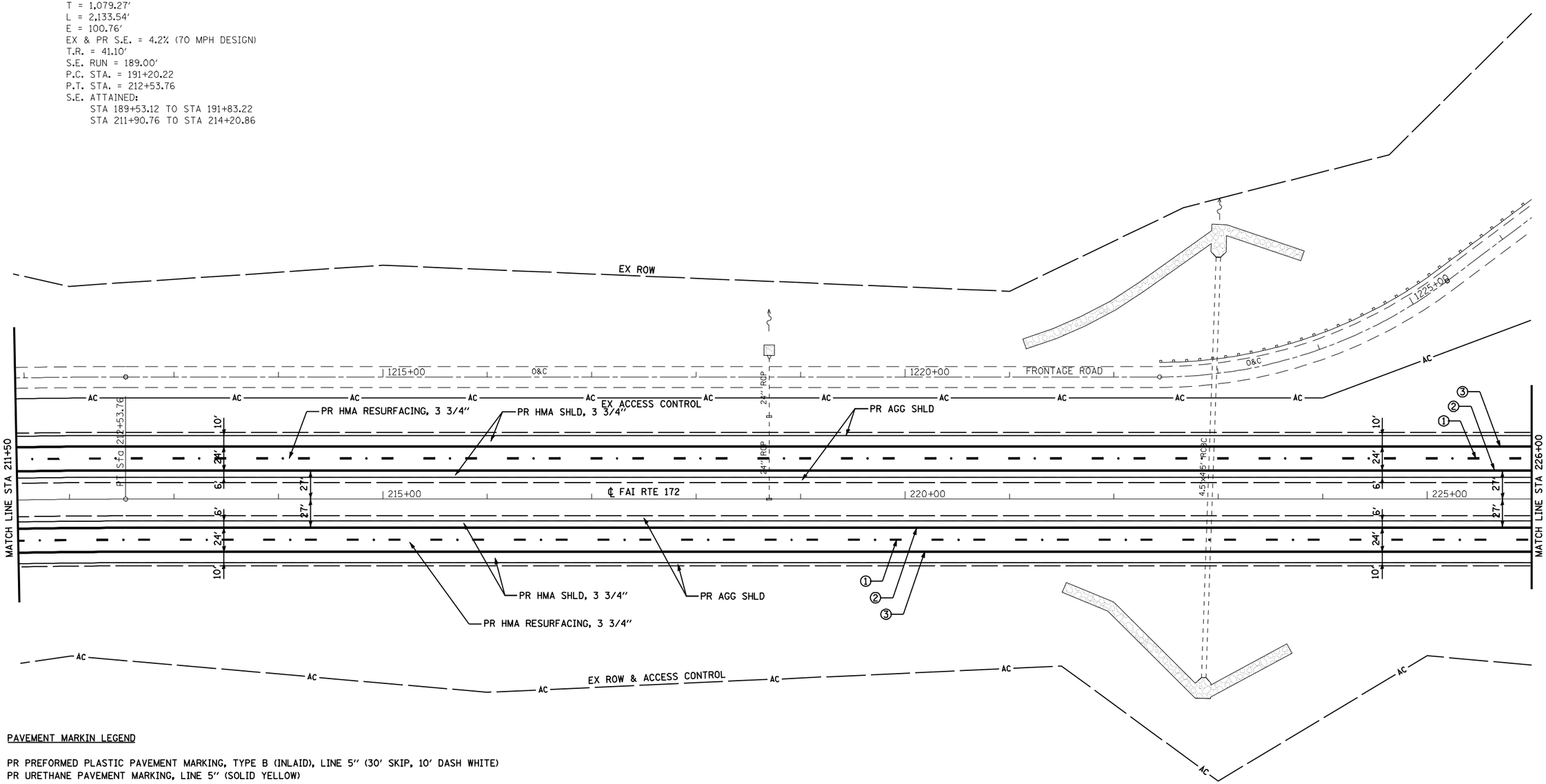
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FAI RTE 172 PLAN

SCALE: 1″=50′ | SHEET NO. 15 OF 52 SHEETS | STA. 197+00 | TO STA. 211+50

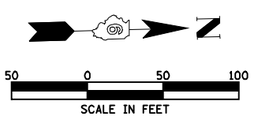
F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
172	1-(1,2,3,4,5)RS	ADAMS	165	53
		CONTRACT NO. 72A09		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

EXIST. CURVE C4
PI STA. = 201+99.49
Δ = 21° 20′ 07″ (RT)
D = 1° 00′ 00″
R = 5,729.57′
T = 1,079.27′
L = 2,133.54′
E = 100.76′
EX & PR S.E. = 4.2% (70 MPH DESIGN)
T.R. = 41.10′
S.E. RUN = 189.00′
P.C. STA. = 191+20.22
P.T. STA. = 212+53.76
S.E. ATTAINED:
STA 189+53.12 TO STA 191+83.22
STA 211+90.76 TO STA 214+20.86



PAVEMENT MARKIN LEGEND

① PR PREFORMED PLASTIC PAVEMENT MARKING, TYPE B (INLAID), LINE 5″ (30′ SKIP, 10′ DASH WHITE)
② PR URETHANE PAVEMENT MARKING, LINE 5″ (SOLID YELLOW)
③ PR URETHANE PAVEMENT MARKING, LINE 5″ (SOLID WHITE)
④ PR URETHANE PAVEMENT MARKING, LINE 6″ (SOLID WHITE)
⑤ PR PREFORMED PLASTIC PAVEMENT MARKING, TYPE B (INLAID), LINE 6″ (6′ SKIP, 2′ DASH WHITE)
⑥ PR PREFORMED PLASTIC PAVEMENT MARKING, TYPE B (INLAID), LINE 8″ (SOLID WHITE)
⑦ PR PREFORMED PLASTIC PAVEMENT MARKING, TYPE B (INLAID), LINE 12″ (SOLID WHITE)
⑧ PR PREFORMED PLASTIC PAVEMENT MARKING, TYPE B (INLAID), LINE 12″ (SOLID YELLOW)
⑨ PR PREFORMED PLASTIC PAVEMENT MARKING, TYPE B (INLAID), LINE 24″ (SOLID WHITE)
⑩ PR PREFORMED PLASTIC PAVEMENT MARKING, TYPE B (INLAID), LETTERS AND SYMBOLS (SOLID WHITE)
▷ PR RAISED REFLECTIVE PAVEMENT MARKERS, ONE-WAY CRYSTAL
▶ PR RAISED REFLECTIVE PAVEMENT MARKERS, ONE-WAY AMBER
◆ PR RAISED REFLECTIVE PAVEMENT MARKERS, TWO-WAY AMBER



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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FAI RTE 172 PLAN

SCALE: 1″=50′ | SHEET NO. 16 OF 52 SHEETS | STA. 211+50 | TO STA. 226+00

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
172	1-(1,2,3,4,5)RS	ADAMS	165	54
		CONTRACT NO. 72A09		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

A — REMOVE EXISTING GUARDRAIL
PR GUARDRAIL (SEE SHEET 93 & SCHEDULE)

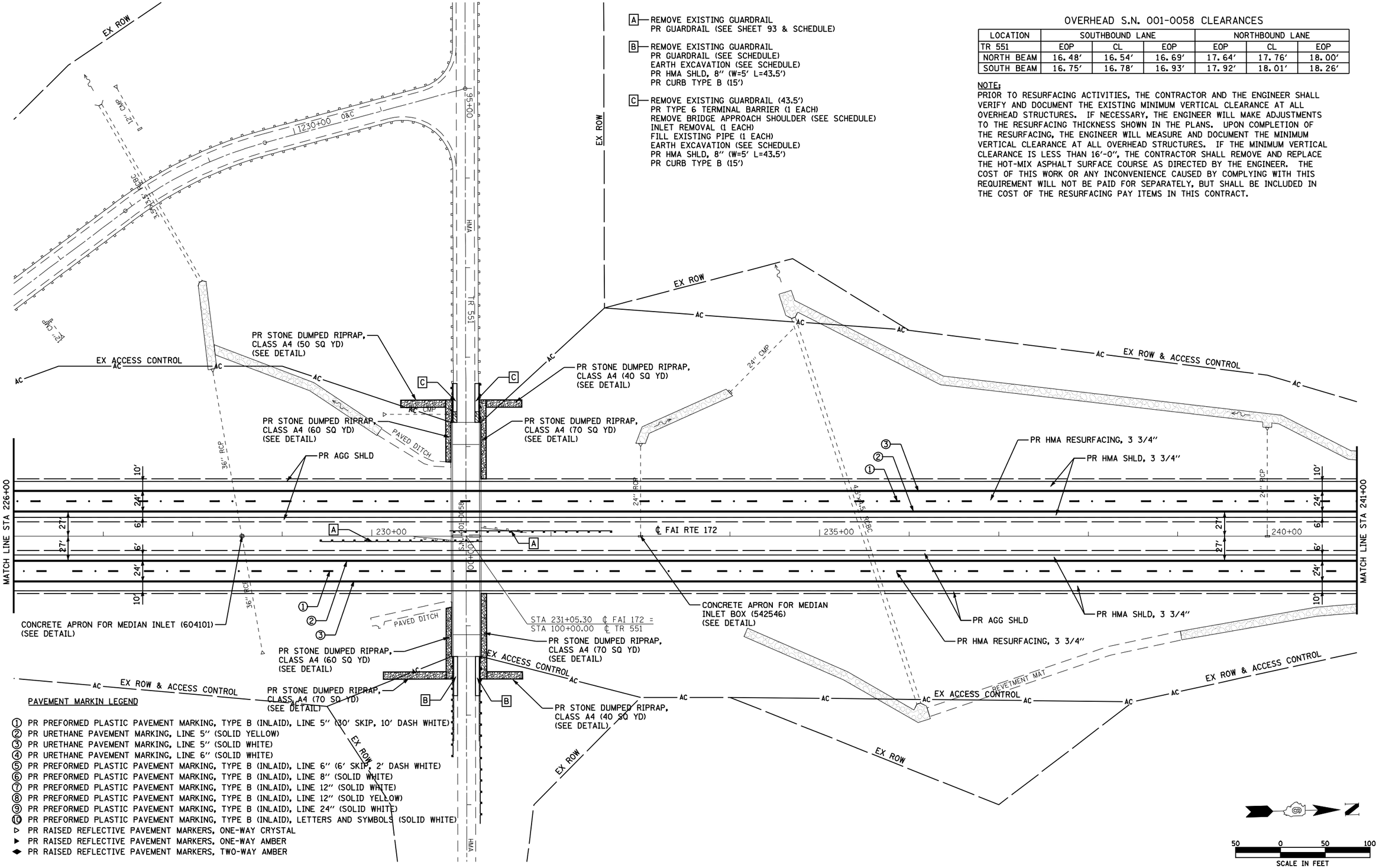
B — REMOVE EXISTING GUARDRAIL
PR GUARDRAIL (SEE SCHEDULE)
EARTH EXCAVATION (SEE SCHEDULE)
PR HMA SHLD, 8" (W=5' L=43.5')
PR CURB TYPE B (15')

C — REMOVE EXISTING GUARDRAIL (43.5')
PR TYPE 6 TERMINAL BARRIER (1 EACH)
REMOVE BRIDGE APPROACH SHOULDER (SEE SCHEDULE)
INLET REMOVAL (1 EACH)
FILL EXISTING PIPE (1 EACH)
EARTH EXCAVATION (SEE SCHEDULE)
PR HMA SHLD, 8" (W=5' L=43.5')
PR CURB TYPE B (15')

OVERHEAD S.N. 001-0058 CLEARANCES

LOCATION	SOUTHBOUND LANE			NORTHBOUND LANE		
TR 551	EOP	CL	EOP	EOP	CL	EOP
NORTH BEAM	16.48'	16.54'	16.69'	17.64'	17.76'	18.00'
SOUTH BEAM	16.75'	16.78'	16.93'	17.92'	18.01'	18.26'

NOTE:
PRIOR TO RESURFACING ACTIVITIES, THE CONTRACTOR AND THE ENGINEER SHALL VERIFY AND DOCUMENT THE EXISTING MINIMUM VERTICAL CLEARANCE AT ALL OVERHEAD STRUCTURES. IF NECESSARY, THE ENGINEER WILL MAKE ADJUSTMENTS TO THE RESURFACING THICKNESS SHOWN IN THE PLANS. UPON COMPLETION OF THE RESURFACING, THE ENGINEER WILL MEASURE AND DOCUMENT THE MINIMUM VERTICAL CLEARANCE AT ALL OVERHEAD STRUCTURES. IF THE MINIMUM VERTICAL CLEARANCE IS LESS THAN 16'-0", THE CONTRACTOR SHALL REMOVE AND REPLACE THE HOT-MIX ASPHALT SURFACE COURSE AS DIRECTED BY THE ENGINEER. THE COST OF THIS WORK OR ANY INCONVENIENCE CAUSED BY COMPLYING WITH THIS REQUIREMENT WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE COST OF THE RESURFACING PAY ITEMS IN THIS CONTRACT.



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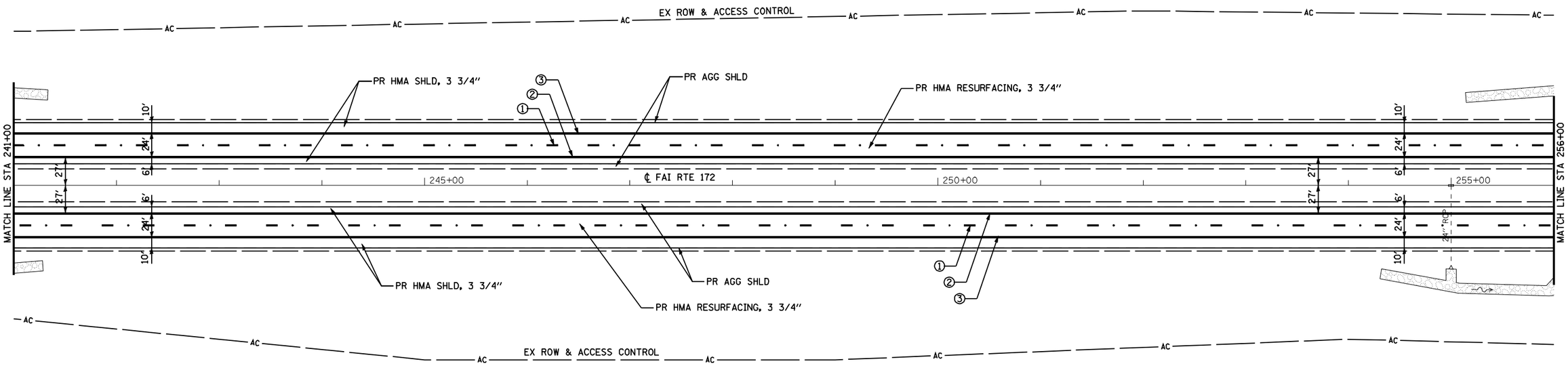
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FAI RTE 172 PLAN

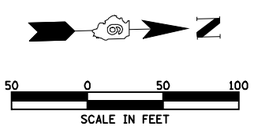
SCALE: 1"=50' | SHEET NO. 17 OF 52 SHEETS | STA. 226+00 | TO STA. 241+00

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
172	1-(1,2,3,4,5)RS	ADAMS	165	55
		CONTRACT NO. 72A09		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



PAVEMENT MARKIN LEGEND

① PR PREFORMED PLASTIC PAVEMENT MARKING, TYPE B (INLAID), LINE 5" (30' SKIP, 10' DASH WHITE)
② PR URETHANE PAVEMENT MARKING, LINE 5" (SOLID YELLOW)
③ PR URETHANE PAVEMENT MARKING, LINE 5" (SOLID WHITE)
④ PR URETHANE PAVEMENT MARKING, LINE 6" (SOLID WHITE)
⑤ PR PREFORMED PLASTIC PAVEMENT MARKING, TYPE B (INLAID), LINE 6" (6' SKIP, 2' DASH WHITE)
⑥ PR PREFORMED PLASTIC PAVEMENT MARKING, TYPE B (INLAID), LINE 8" (SOLID WHITE)
⑦ PR PREFORMED PLASTIC PAVEMENT MARKING, TYPE B (INLAID), LINE 12" (SOLID WHITE)
⑧ PR PREFORMED PLASTIC PAVEMENT MARKING, TYPE B (INLAID), LINE 12" (SOLID YELLOW)
⑨ PR PREFORMED PLASTIC PAVEMENT MARKING, TYPE B (INLAID), LINE 24" (SOLID WHITE)
⑩ PR PREFORMED PLASTIC PAVEMENT MARKING, TYPE B (INLAID), LETTERS AND SYMBOLS (SOLID WHITE)
▷ PR RAISED REFLECTIVE PAVEMENT MARKERS, ONE-WAY CRYSTAL
▶ PR RAISED REFLECTIVE PAVEMENT MARKERS, ONE-WAY AMBER
◆ PR RAISED REFLECTIVE PAVEMENT MARKERS, TWO-WAY AMBER



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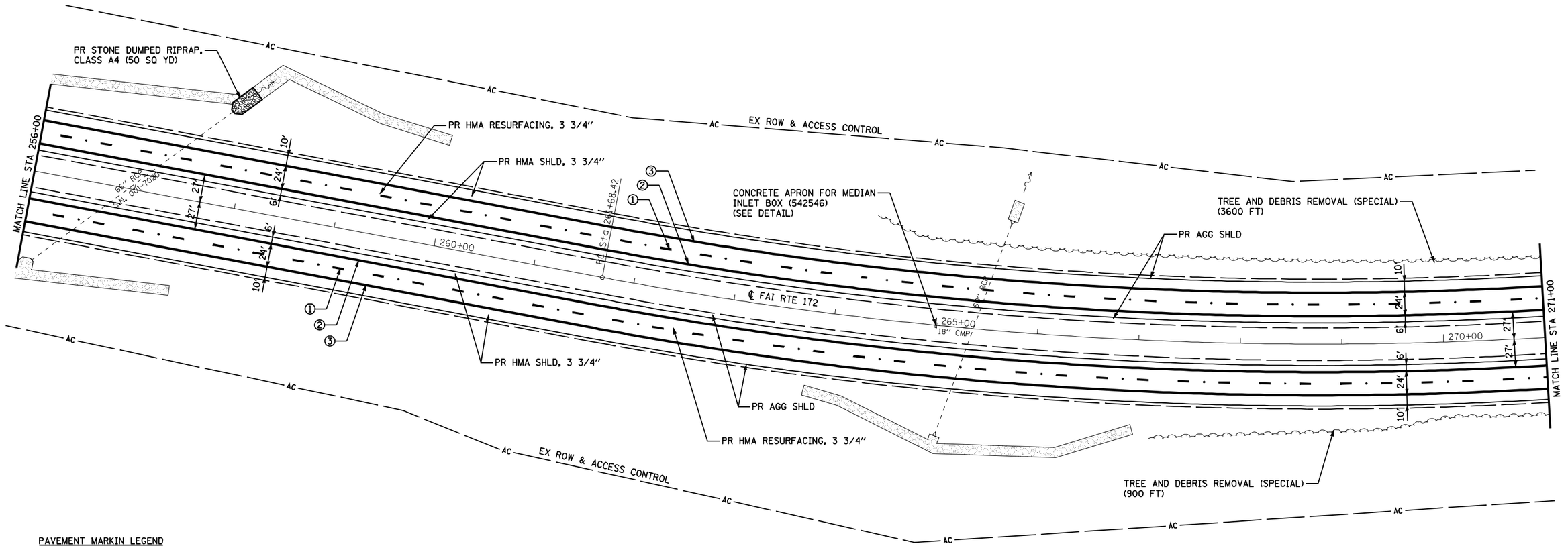
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FAI RTE 172 PLAN

SCALE: 1"=50' | SHEET NO. 18 OF 52 SHEETS | STA. 241+00 | TO STA. 256+00

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
172	1-(1,2,3,4,5)RS	ADAMS	165	56
		CONTRACT NO. 72A09		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

EXIST. CURVE C5
PI STA. = 274+13.80
Δ = 36° 06′ 58″ (LT)
D = 1° 30′ 00″
R = 3,819.72′
T = 1,245.38′
L = 2,407.74′
E = 197.90′
EX & PR S.E. = 5.2% (70 MPH DESIGN)
T.R. = 39.50′
S.E. RUN = 234.00′
P.C. STA. = 261+68.42
P.T. STA. = 285+76.16
S.E. ATTAINED:
STA 259+72.92 TO STA 262+46.42
STA 285+01.16 TO STA 1+78.71



PAVEMENT MARKIN LEGEND

① PR PREFORMED PLASTIC PAVEMENT MARKING, TYPE B (INLAID), LINE 5″ (30′ SKIP, 10′ DASH WHITE)
② PR URETHANE PAVEMENT MARKING, LINE 5″ (SOLID YELLOW)
③ PR URETHANE PAVEMENT MARKING, LINE 5″ (SOLID WHITE)
④ PR URETHANE PAVEMENT MARKING, LINE 6″ (SOLID WHITE)
⑤ PR PREFORMED PLASTIC PAVEMENT MARKING, TYPE B (INLAID), LINE 6″ (6′ SKIP, 2′ DASH WHITE)
⑥ PR PREFORMED PLASTIC PAVEMENT MARKING, TYPE B (INLAID), LINE 8″ (SOLID WHITE)
⑦ PR PREFORMED PLASTIC PAVEMENT MARKING, TYPE B (INLAID), LINE 12″ (SOLID WHITE)
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⑨ PR PREFORMED PLASTIC PAVEMENT MARKING, TYPE B (INLAID), LINE 24″ (SOLID WHITE)
⑩ PR PREFORMED PLASTIC PAVEMENT MARKING, TYPE B (INLAID), LETTERS AND SYMBOLS (SOLID WHITE)
▷ PR RAISED REFLECTIVE PAVEMENT MARKERS, ONE-WAY CRYSTAL
▶ PR RAISED REFLECTIVE PAVEMENT MARKERS, ONE-WAY AMBER
◆ PR RAISED REFLECTIVE PAVEMENT MARKERS, TWO-WAY AMBER

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SCALE IN FEET

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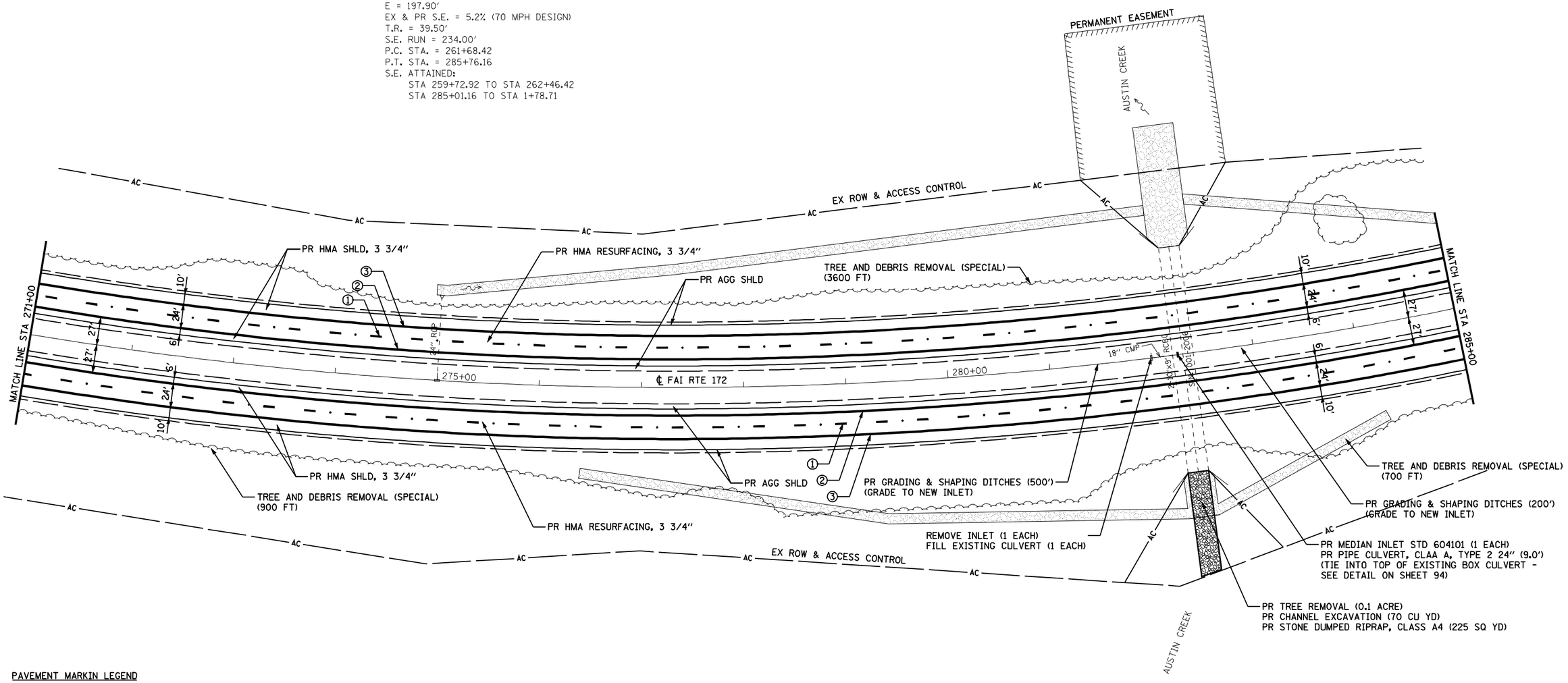
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FAI RTE 172 PLAN

SCALE: 1″=50′ | SHEET NO. 19 OF 52 SHEETS | STA. 256+00 | TO STA. 271+00

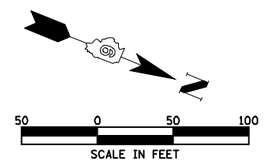
F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
172	1-(1,2,3,4,5)RS	ADAMS	165	57
		CONTRACT NO. 72A09		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

EXIST. CURVE C5
PI STA. = 274+13.80
Δ = 36° 06′ 58″ (LT)
D = 1° 30′ 00″
R = 3,819.72′
T = 1,245.38′
L = 2,407.74′
E = 197.90′
EX & PR S.E. = 5.2% (70 MPH DESIGN)
T.R. = 39.50′
S.E. RUN = 234.00′
P.C. STA. = 261+68.42
P.T. STA. = 285+76.16
S.E. ATTAINED:
STA 259+72.92 TO STA 262+46.42
STA 285+01.16 TO STA 1+78.71



PAVEMENT MARKIN LEGEND

① PR PREFORMED PLASTIC PAVEMENT MARKING, TYPE B (INLAID), LINE 5″ (30′ SKIP, 10′ DASH WHITE)
② PR URETHANE PAVEMENT MARKING, LINE 5″ (SOLID YELLOW)
③ PR URETHANE PAVEMENT MARKING, LINE 5″ (SOLID WHITE)
④ PR URETHANE PAVEMENT MARKING, LINE 6″ (SOLID WHITE)
⑤ PR PREFORMED PLASTIC PAVEMENT MARKING, TYPE B (INLAID), LINE 6″ (6′ SKIP, 2′ DASH WHITE)
⑥ PR PREFORMED PLASTIC PAVEMENT MARKING, TYPE B (INLAID), LINE 8″ (SOLID WHITE)
⑦ PR PREFORMED PLASTIC PAVEMENT MARKING, TYPE B (INLAID), LINE 12″ (SOLID WHITE)
⑧ PR PREFORMED PLASTIC PAVEMENT MARKING, TYPE B (INLAID), LINE 12″ (SOLID YELLOW)
⑨ PR PREFORMED PLASTIC PAVEMENT MARKING, TYPE B (INLAID), LINE 24″ (SOLID WHITE)
⑩ PR PREFORMED PLASTIC PAVEMENT MARKING, TYPE B (INLAID), LETTERS AND SYMBOLS (SOLID WHITE)
▷ PR RAISED REFLECTIVE PAVEMENT MARKERS, ONE-WAY CRYSTAL
▶ PR RAISED REFLECTIVE PAVEMENT MARKERS, ONE-WAY AMBER
◆ PR RAISED REFLECTIVE PAVEMENT MARKERS, TWO-WAY AMBER



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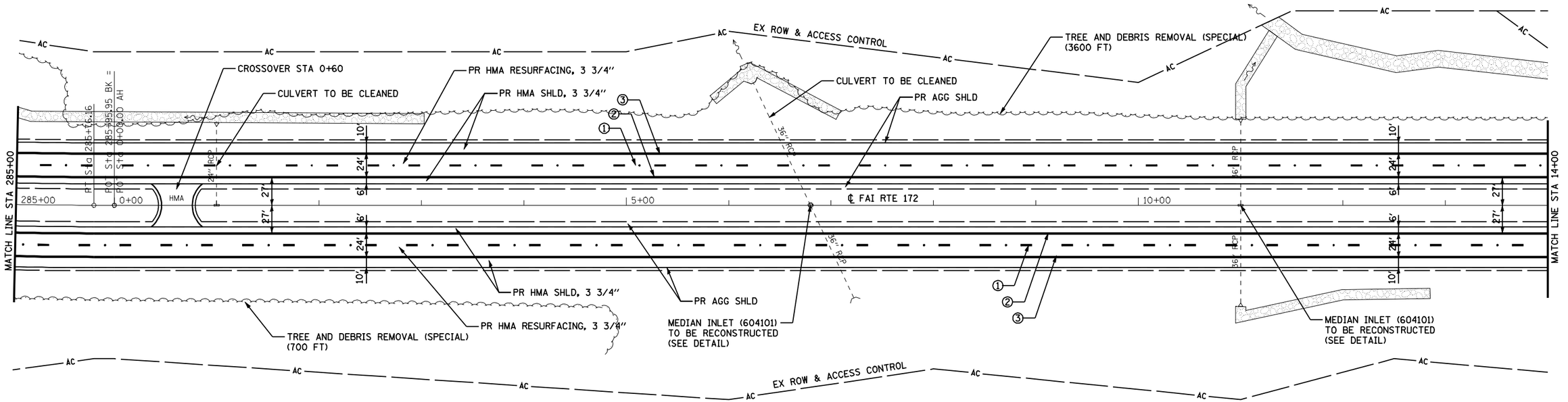
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FAI RTE 172 PLAN

SCALE: 1″=50′ | SHEET NO. 20 OF 52 SHEETS | STA. 271+00 | TO STA. 285+00

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
172	1-(1,2,3,4,5)RS	ADAMS	165	58
		CONTRACT NO. 72A09		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

EXIST. CURVE C5
PI STA. = 274+13.80
△ = 36° 06′ 58″ (LT)
D = 1° 30′ 00″
R = 3,819.72′
T = 1,245.38′
L = 2,407.74′
E = 197.90′
EX & PR S.E. = 5.2% (70 MPH DESIGN)
T.R. = 39.50′
S.E. RUN = 234.00′
P.C. STA. = 261+68.42
P.T. STA. = 285+76.16
S.E. ATTAINED:
STA 259+72.92 TO STA 262+46.42
STA 285+01.16 TO STA 1+78.71



PAVEMENT MARKIN LEGEND

① PR PREFORMED PLASTIC PAVEMENT MARKING, TYPE B (INLAID), LINE 5″ (30′ SKIP, 10′ DASH WHITE)
② PR URETHANE PAVEMENT MARKING, LINE 5″ (SOLID YELLOW)
③ PR URETHANE PAVEMENT MARKING, LINE 5″ (SOLID WHITE)
④ PR URETHANE PAVEMENT MARKING, LINE 6″ (SOLID WHITE)
⑤ PR PREFORMED PLASTIC PAVEMENT MARKING, TYPE B (INLAID), LINE 6″ (6′ SKIP, 2′ DASH WHITE)
⑥ PR PREFORMED PLASTIC PAVEMENT MARKING, TYPE B (INLAID), LINE 8″ (SOLID WHITE)
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⑨ PR PREFORMED PLASTIC PAVEMENT MARKING, TYPE B (INLAID), LINE 24″ (SOLID WHITE)
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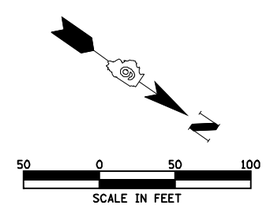
▷ PR RAISED REFLECTIVE PAVEMENT MARKERS, ONE-WAY CRYSTAL
▶ PR RAISED REFLECTIVE PAVEMENT MARKERS, ONE-WAY AMBER
◆ PR RAISED REFLECTIVE PAVEMENT MARKERS, TWO-WAY AMBER



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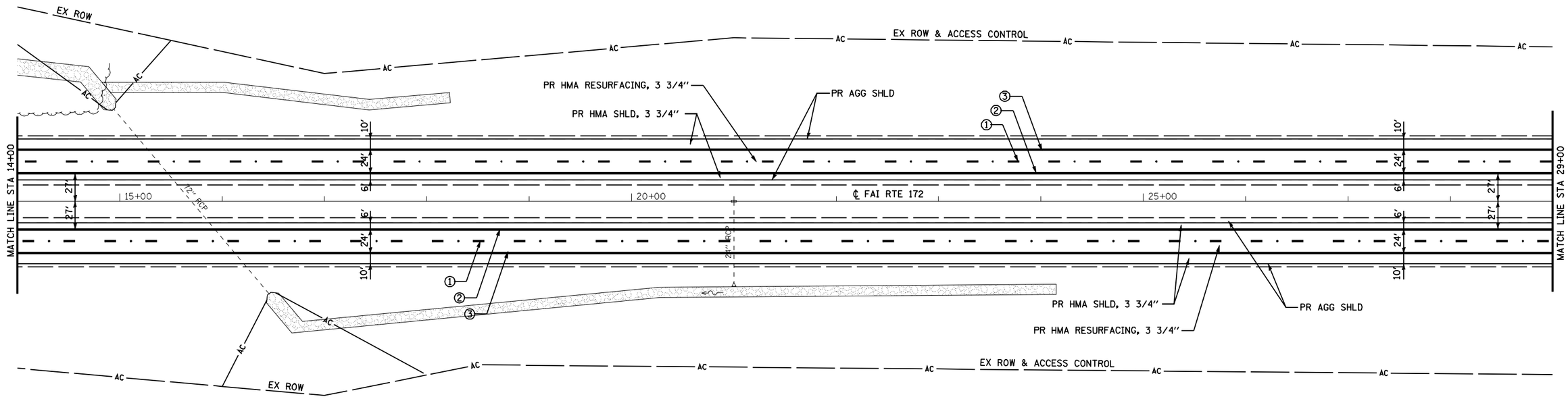
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FAI RTE 172 PLAN

SCALE: 1″=50′ | SHEET NO. 21 OF 52 SHEETS | STA. 285+00 | TO STA. 14+00

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
172	1-(1,2,3,4,5)RS	ADAMS	165	59
		CONTRACT NO. 72A09		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



PAVEMENT MARKIN LEGEND

① PR PREFORMED PLASTIC PAVEMENT MARKING, TYPE B (INLAID), LINE 5" (30' SKIP, 10' DASH WHITE)
② PR URETHANE PAVEMENT MARKING, LINE 5" (SOLID YELLOW)
③ PR URETHANE PAVEMENT MARKING, LINE 5" (SOLID WHITE)
④ PR URETHANE PAVEMENT MARKING, LINE 6" (SOLID WHITE)
⑤ PR PREFORMED PLASTIC PAVEMENT MARKING, TYPE B (INLAID), LINE 6" (6' SKIP, 2' DASH WHITE)
⑥ PR PREFORMED PLASTIC PAVEMENT MARKING, TYPE B (INLAID), LINE 8" (SOLID WHITE)
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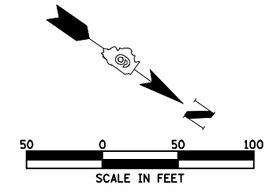
⑩ PR PREFORMED PLASTIC PAVEMENT MARKING, TYPE B (INLAID), LETTERS AND SYMBOLS (SOLID WHITE)
▷ PR RAISED REFLECTIVE PAVEMENT MARKERS, ONE-WAY CRYSTAL
▶ PR RAISED REFLECTIVE PAVEMENT MARKERS, ONE-WAY AMBER
◆ PR RAISED REFLECTIVE PAVEMENT MARKERS, TWO-WAY AMBER



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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FAI RTE 172 PLAN

SCALE: 1"=50' | SHEET NO. 22 OF 52 SHEETS | STA. 14+00 | TO STA. 29+00

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
172	1-(1,2,3,4,5)RS	ADAMS	165	60
		CONTRACT NO. 72A09		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

OVERHEAD S.N. 001-0060 CLEARANCES

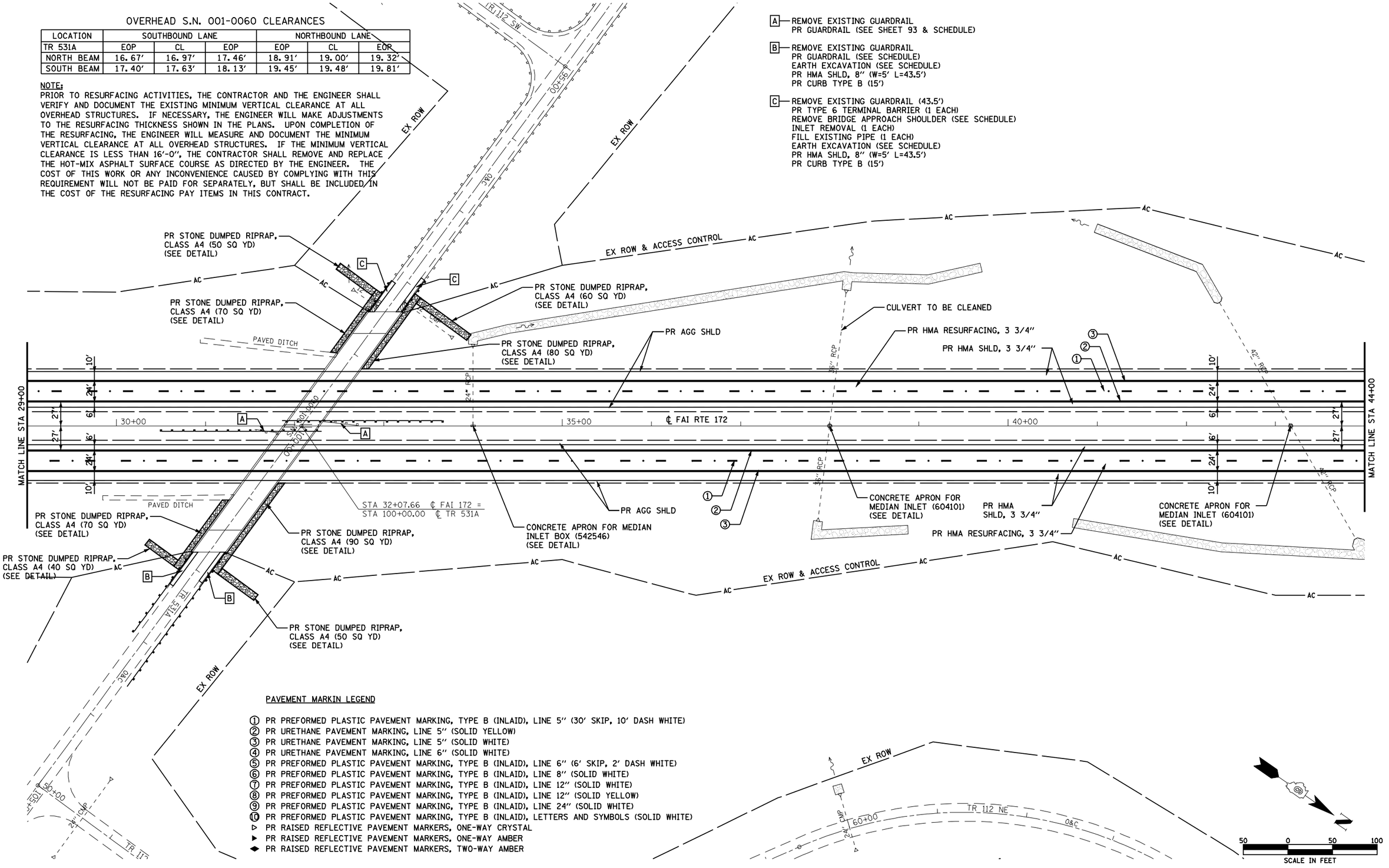
LOCATION	SOUTHBOUND LANE			NORTHBOUND LANE		
TR 531A	EOP	CL	EOP	EOP	CL	EOR
NORTH BEAM	16.67′	16.97′	17.46′	18.91′	19.00′	19.32′
SOUTH BEAM	17.40′	17.63′	18.13′	19.45′	19.48′	19.81′

NOTE:
PRIOR TO RESURFACING ACTIVITIES, THE CONTRACTOR AND THE ENGINEER SHALL VERIFY AND DOCUMENT THE EXISTING MINIMUM VERTICAL CLEARANCE AT ALL OVERHEAD STRUCTURES. IF NECESSARY, THE ENGINEER WILL MAKE ADJUSTMENTS TO THE RESURFACING THICKNESS SHOWN IN THE PLANS. UPON COMPLETION OF THE RESURFACING, THE ENGINEER WILL MEASURE AND DOCUMENT THE MINIMUM VERTICAL CLEARANCE AT ALL OVERHEAD STRUCTURES. IF THE MINIMUM VERTICAL CLEARANCE IS LESS THAN 16′-0″, THE CONTRACTOR SHALL REMOVE AND REPLACE THE HOT-MIX ASPHALT SURFACE COURSE AS DIRECTED BY THE ENGINEER. THE COST OF THIS WORK OR ANY INCONVENIENCE CAUSED BY COMPLYING WITH THIS REQUIREMENT WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE COST OF THE RESURFACING PAY ITEMS IN THIS CONTRACT.

Ⓐ REMOVE EXISTING GUARDRAIL
PR GUARDRAIL (SEE SHEET 93 & SCHEDULE)

Ⓑ REMOVE EXISTING GUARDRAIL
PR GUARDRAIL (SEE SCHEDULE)
EARTH EXCAVATION (SEE SCHEDULE)
PR HMA SHLD, 8″ (W=5′ L=43.5′)
PR CURB TYPE B (15′)

Ⓒ REMOVE EXISTING GUARDRAIL (43.5′)
PR TYPE 6 TERMINAL BARRIER (1 EACH)
REMOVE BRIDGE APPROACH SHOULDER (SEE SCHEDULE)
INLET REMOVAL (1 EACH)
FILL EXISTING PIPE (1 EACH)
EARTH EXCAVATION (SEE SCHEDULE)
PR HMA SHLD, 8″ (W=5′ L=43.5′)
PR CURB TYPE B (15′)



PAVEMENT MARKIN LEGEND

① PR PREFORMED PLASTIC PAVEMENT MARKING, TYPE B (INLAID), LINE 5″ (30′ SKIP, 10′ DASH WHITE)
② PR URETHANE PAVEMENT MARKING, LINE 5″ (SOLID YELLOW)
③ PR URETHANE PAVEMENT MARKING, LINE 5″ (SOLID WHITE)
④ PR URETHANE PAVEMENT MARKING, LINE 6″ (SOLID WHITE)
⑤ PR PREFORMED PLASTIC PAVEMENT MARKING, TYPE B (INLAID), LINE 6″ (6′ SKIP, 2′ DASH WHITE)
⑥ PR PREFORMED PLASTIC PAVEMENT MARKING, TYPE B (INLAID), LINE 8″ (SOLID WHITE)
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⑩ PR PREFORMED PLASTIC PAVEMENT MARKING, TYPE B (INLAID), LETTERS AND SYMBOLS (SOLID WHITE)
▷ PR RAISED REFLECTIVE PAVEMENT MARKERS, ONE-WAY CRYSTAL
▶ PR RAISED REFLECTIVE PAVEMENT MARKERS, ONE-WAY AMBER
◆ PR RAISED REFLECTIVE PAVEMENT MARKERS, TWO-WAY AMBER

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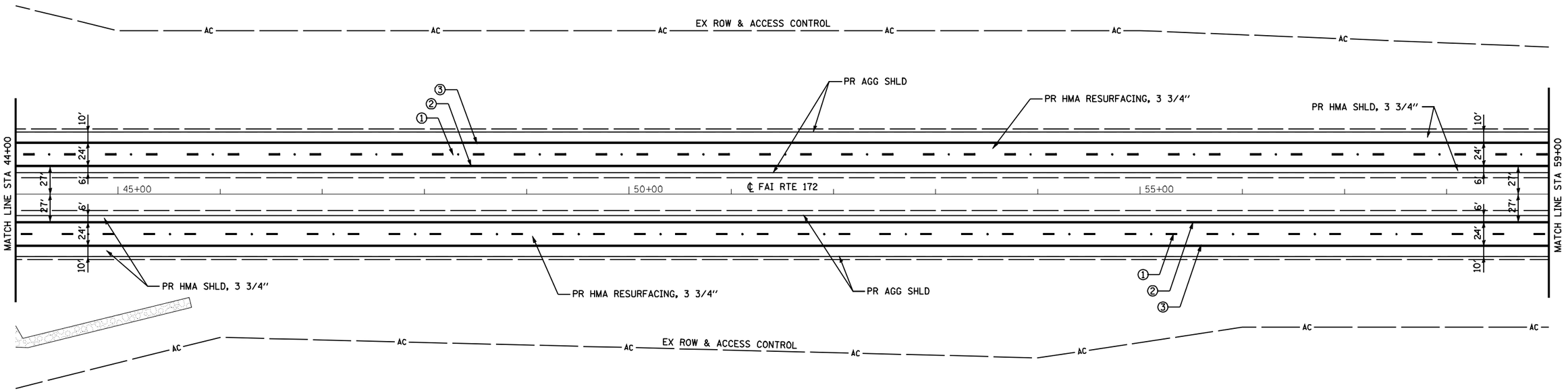
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FAI RTE 172 PLAN

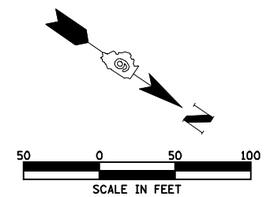
SCALE: 1″=50′ | SHEET NO. 23 OF 52 SHEETS | STA. 29+00 | TO STA. 44+00

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
172	1-(1,2,3,4,5)RS	ADAMS	165	61
		CONTRACT NO. 72A09		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



PAVEMENT MARKIN LEGEND

① PR PREFORMED PLASTIC PAVEMENT MARKING, TYPE B (INLAID), LINE 5" (30' SKIP, 10' DASH WHITE)
② PR URETHANE PAVEMENT MARKING, LINE 5" (SOLID YELLOW)
③ PR URETHANE PAVEMENT MARKING, LINE 5" (SOLID WHITE)
④ PR URETHANE PAVEMENT MARKING, LINE 6" (SOLID WHITE)
⑤ PR PREFORMED PLASTIC PAVEMENT MARKING, TYPE B (INLAID), LINE 6" (6' SKIP, 2' DASH WHITE)
⑥ PR PREFORMED PLASTIC PAVEMENT MARKING, TYPE B (INLAID), LINE 8" (SOLID WHITE)
⑦ PR PREFORMED PLASTIC PAVEMENT MARKING, TYPE B (INLAID), LINE 12" (SOLID WHITE)
⑧ PR PREFORMED PLASTIC PAVEMENT MARKING, TYPE B (INLAID), LINE 12" (SOLID YELLOW)
⑨ PR PREFORMED PLASTIC PAVEMENT MARKING, TYPE B (INLAID), LINE 24" (SOLID WHITE)
⑩ PR PREFORMED PLASTIC PAVEMENT MARKING, TYPE B (INLAID), LETTERS AND SYMBOLS (SOLID WHITE)
▷ PR RAISED REFLECTIVE PAVEMENT MARKERS, ONE-WAY CRYSTAL
▶ PR RAISED REFLECTIVE PAVEMENT MARKERS, ONE-WAY AMBER
◆ PR RAISED REFLECTIVE PAVEMENT MARKERS, TWO-WAY AMBER



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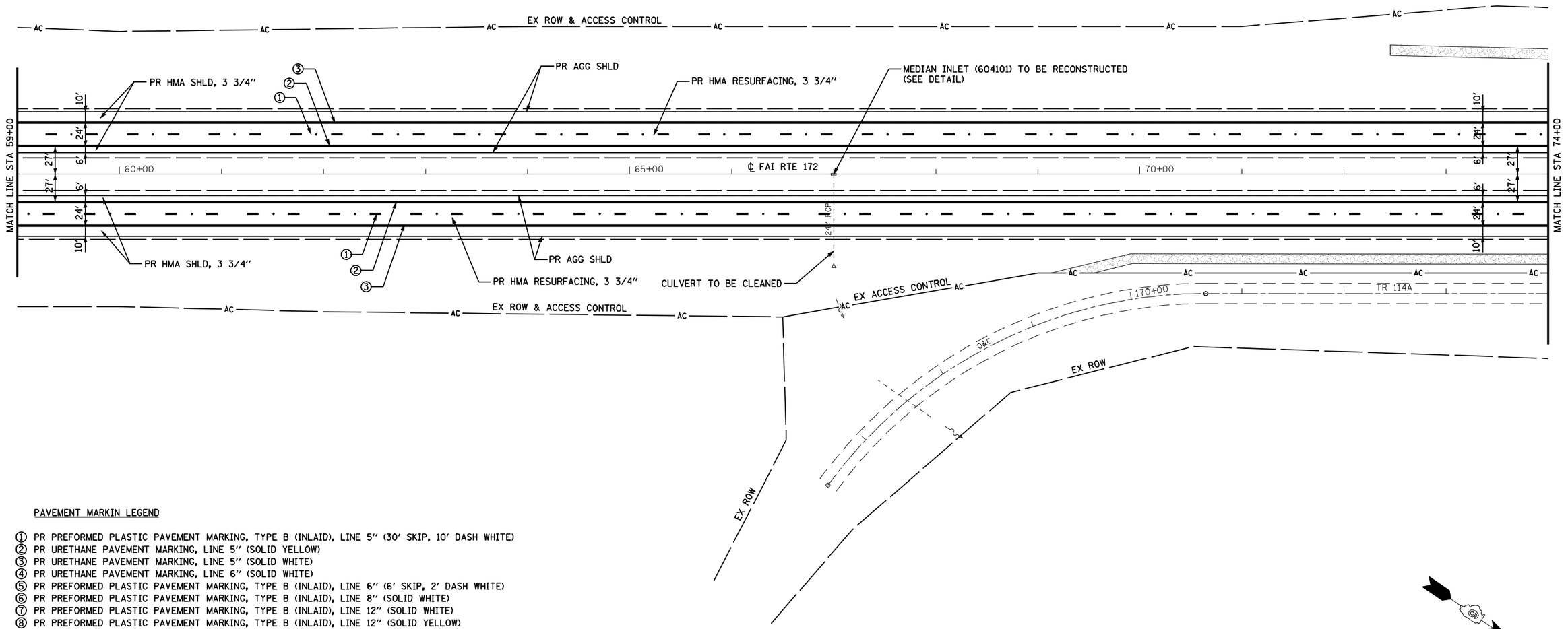
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FAI RTE 172 PLAN

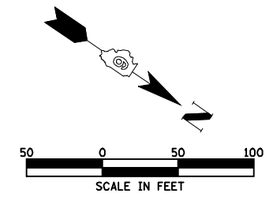
SCALE: 1"=50' | SHEET NO. 24 OF 52 SHEETS | STA. 44+00 | TO STA. 59+00

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
172	1-(1,2,3,4,5)RS	ADAMS	165	62
		CONTRACT NO. 72A09		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



PAVEMENT MARKIN LEGEND

① PR PREFORMED PLASTIC PAVEMENT MARKING, TYPE B (INLAID), LINE 5" (30' SKIP, 10' DASH WHITE)
② PR URETHANE PAVEMENT MARKING, LINE 5" (SOLID YELLOW)
③ PR URETHANE PAVEMENT MARKING, LINE 5" (SOLID WHITE)
④ PR URETHANE PAVEMENT MARKING, LINE 6" (SOLID WHITE)
⑤ PR PREFORMED PLASTIC PAVEMENT MARKING, TYPE B (INLAID), LINE 6" (6' SKIP, 2' DASH WHITE)
⑥ PR PREFORMED PLASTIC PAVEMENT MARKING, TYPE B (INLAID), LINE 8" (SOLID WHITE)
⑦ PR PREFORMED PLASTIC PAVEMENT MARKING, TYPE B (INLAID), LINE 12" (SOLID WHITE)
⑧ PR PREFORMED PLASTIC PAVEMENT MARKING, TYPE B (INLAID), LINE 12" (SOLID YELLOW)
⑨ PR PREFORMED PLASTIC PAVEMENT MARKING, TYPE B (INLAID), LINE 24" (SOLID WHITE)
⑩ PR PREFORMED PLASTIC PAVEMENT MARKING, TYPE B (INLAID), LETTERS AND SYMBOLS (SOLID WHITE)
▷ PR RAISED REFLECTIVE PAVEMENT MARKERS, ONE-WAY CRYSTAL
▶ PR RAISED REFLECTIVE PAVEMENT MARKERS, ONE-WAY AMBER
◆ PR RAISED REFLECTIVE PAVEMENT MARKERS, TWO-WAY AMBER



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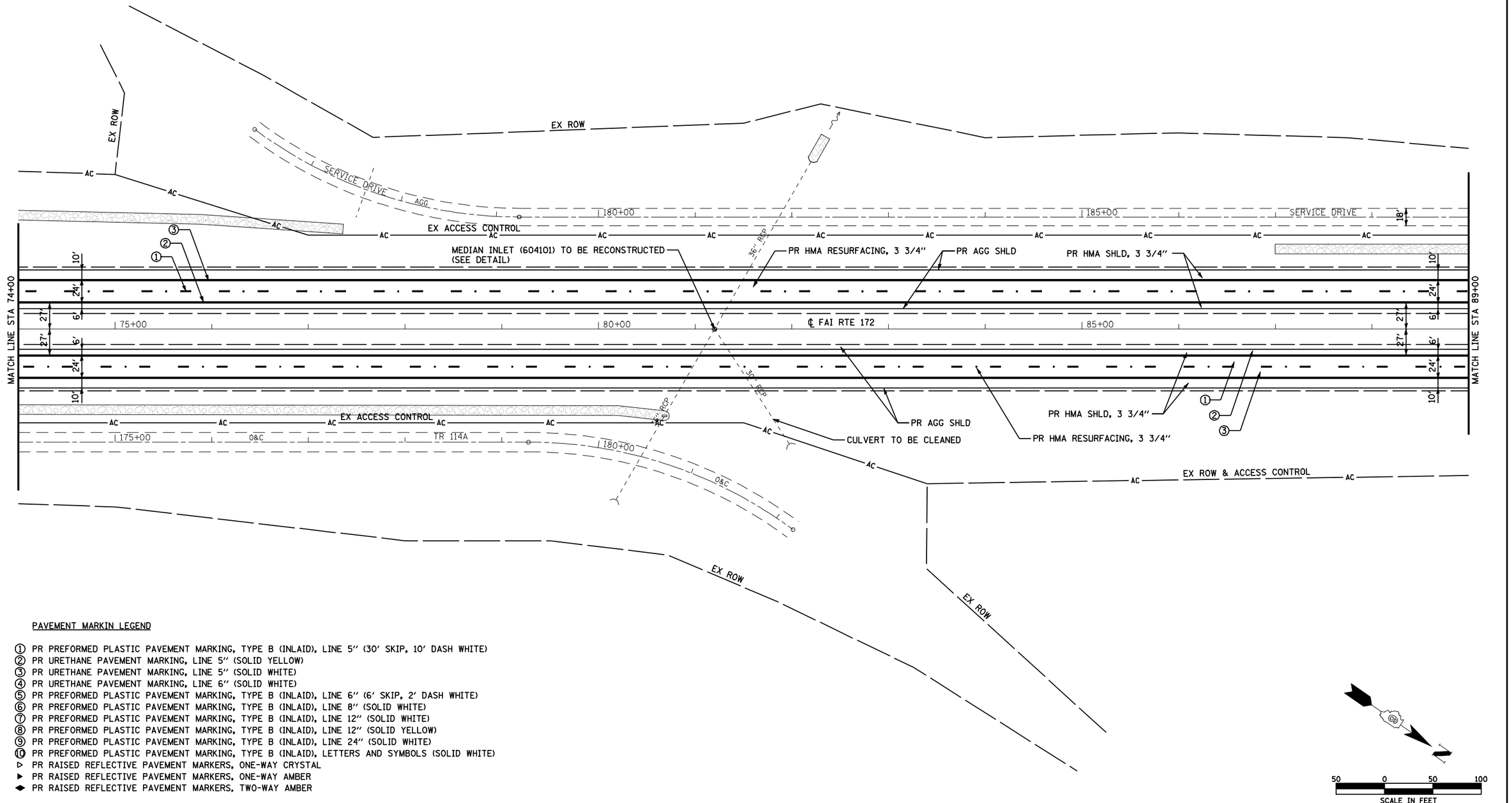
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FAI RTE 172 PLAN

SCALE: 1"=50' | SHEET NO. 25 OF 52 SHEETS | STA. 59+00 | TO STA. 74+00

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
172	1-(1,2,3,4,5)RS	ADAMS	165	63
		CONTRACT NO. 72A09		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



PAVEMENT MARKIN LEGEND

① PR PREFORMED PLASTIC PAVEMENT MARKING, TYPE B (INLAID), LINE 5" (30' SKIP, 10' DASH WHITE)
② PR URETHANE PAVEMENT MARKING, LINE 5" (SOLID YELLOW)
③ PR URETHANE PAVEMENT MARKING, LINE 5" (SOLID WHITE)
④ PR URETHANE PAVEMENT MARKING, LINE 6" (SOLID WHITE)
⑤ PR PREFORMED PLASTIC PAVEMENT MARKING, TYPE B (INLAID), LINE 6" (6' SKIP, 2' DASH WHITE)
⑥ PR PREFORMED PLASTIC PAVEMENT MARKING, TYPE B (INLAID), LINE 8" (SOLID WHITE)
⑦ PR PREFORMED PLASTIC PAVEMENT MARKING, TYPE B (INLAID), LINE 12" (SOLID WHITE)
⑧ PR PREFORMED PLASTIC PAVEMENT MARKING, TYPE B (INLAID), LINE 12" (SOLID YELLOW)
⑨ PR PREFORMED PLASTIC PAVEMENT MARKING, TYPE B (INLAID), LINE 24" (SOLID WHITE)
⑩ PR PREFORMED PLASTIC PAVEMENT MARKING, TYPE B (INLAID), LETTERS AND SYMBOLS (SOLID WHITE)
▷ PR RAISED REFLECTIVE PAVEMENT MARKERS, ONE-WAY CRYSTAL
▶ PR RAISED REFLECTIVE PAVEMENT MARKERS, ONE-WAY AMBER
◆ PR RAISED REFLECTIVE PAVEMENT MARKERS, TWO-WAY AMBER

FILE NAME = c:\pw_work\PWIDOT\LAUGHLINRL\d0182983\064_Plan.dgn	USER NAME = laughlinrl	DESIGNED -	REVISED -
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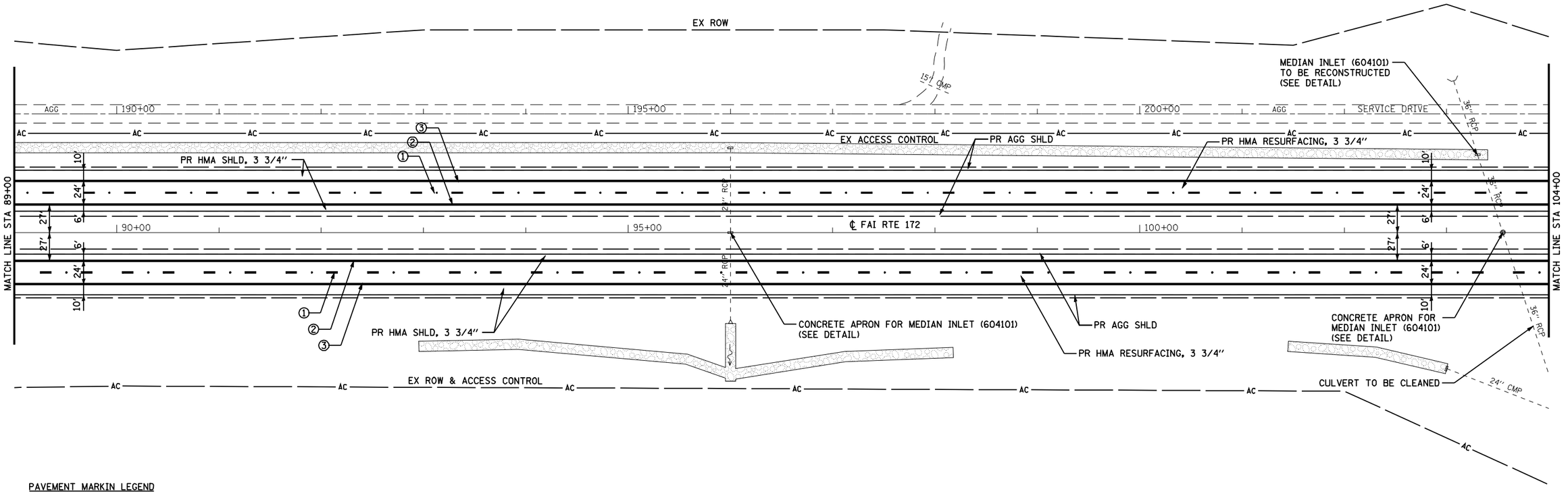
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FAI RTE 172 PLAN

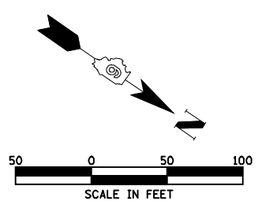
SCALE: 1"=50' | SHEET NO. 26 OF 52 SHEETS | STA. 74+00 | TO STA. 89+00

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
172	1-(1,2,3,4,5)RS	ADAMS	165	64
		CONTRACT NO. 72A09		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



PAVEMENT MARKIN LEGEND

① PR PREFORMED PLASTIC PAVEMENT MARKING, TYPE B (INLAID), LINE 5" (30' SKIP, 10' DASH WHITE)
② PR URETHANE PAVEMENT MARKING, LINE 5" (SOLID YELLOW)
③ PR URETHANE PAVEMENT MARKING, LINE 5" (SOLID WHITE)
④ PR URETHANE PAVEMENT MARKING, LINE 6" (SOLID WHITE)
⑤ PR PREFORMED PLASTIC PAVEMENT MARKING, TYPE B (INLAID), LINE 6" (6' SKIP, 2' DASH WHITE)
⑥ PR PREFORMED PLASTIC PAVEMENT MARKING, TYPE B (INLAID), LINE 8" (SOLID WHITE)
⑦ PR PREFORMED PLASTIC PAVEMENT MARKING, TYPE B (INLAID), LINE 12" (SOLID WHITE)
⑧ PR PREFORMED PLASTIC PAVEMENT MARKING, TYPE B (INLAID), LINE 12" (SOLID YELLOW)
⑨ PR PREFORMED PLASTIC PAVEMENT MARKING, TYPE B (INLAID), LINE 24" (SOLID WHITE)
⑩ PR PREFORMED PLASTIC PAVEMENT MARKING, TYPE B (INLAID), LETTERS AND SYMBOLS (SOLID WHITE)
▷ PR RAISED REFLECTIVE PAVEMENT MARKERS, ONE-WAY CRYSTAL
▶ PR RAISED REFLECTIVE PAVEMENT MARKERS, ONE-WAY AMBER
◆ PR RAISED REFLECTIVE PAVEMENT MARKERS, TWO-WAY AMBER



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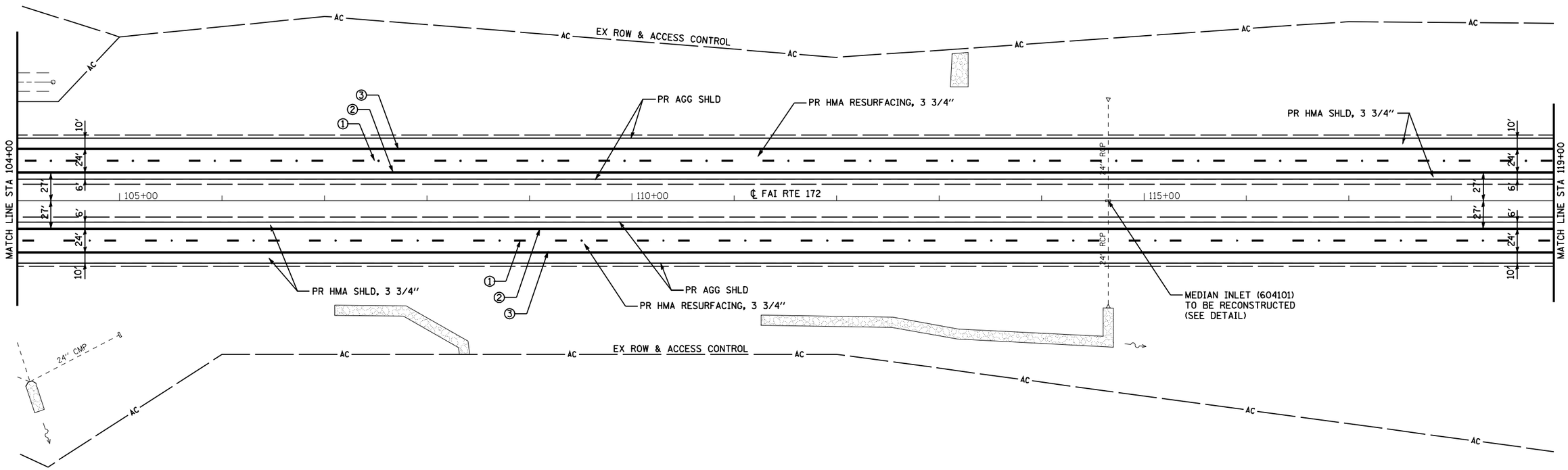
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FAI RTE 172 PLAN

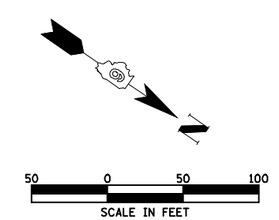
SCALE: 1"=50' | SHEET NO. 27 OF 52 SHEETS | STA. 89+00 | TO STA. 104+00

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
172	1-(1,2,3,4,5)RS	ADAMS	165	65
		CONTRACT NO. 72A09		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



PAVEMENT MARKIN LEGEND

① PR PREFORMED PLASTIC PAVEMENT MARKING, TYPE B (INLAID), LINE 5" (30' SKIP, 10' DASH WHITE)
② PR URETHANE PAVEMENT MARKING, LINE 5" (SOLID YELLOW)
③ PR URETHANE PAVEMENT MARKING, LINE 5" (SOLID WHITE)
④ PR URETHANE PAVEMENT MARKING, LINE 6" (SOLID WHITE)
⑤ PR PREFORMED PLASTIC PAVEMENT MARKING, TYPE B (INLAID), LINE 6" (6' SKIP, 2' DASH WHITE)
⑥ PR PREFORMED PLASTIC PAVEMENT MARKING, TYPE B (INLAID), LINE 8" (SOLID WHITE)
⑦ PR PREFORMED PLASTIC PAVEMENT MARKING, TYPE B (INLAID), LINE 12" (SOLID WHITE)
⑧ PR PREFORMED PLASTIC PAVEMENT MARKING, TYPE B (INLAID), LINE 12" (SOLID YELLOW)
⑨ PR PREFORMED PLASTIC PAVEMENT MARKING, TYPE B (INLAID), LINE 24" (SOLID WHITE)
⑩ PR PREFORMED PLASTIC PAVEMENT MARKING, TYPE B (INLAID), LETTERS AND SYMBOLS (SOLID WHITE)
▷ PR RAISED REFLECTIVE PAVEMENT MARKERS, ONE-WAY CRYSTAL
▶ PR RAISED REFLECTIVE PAVEMENT MARKERS, ONE-WAY AMBER
◆ PR RAISED REFLECTIVE PAVEMENT MARKERS, TWO-WAY AMBER



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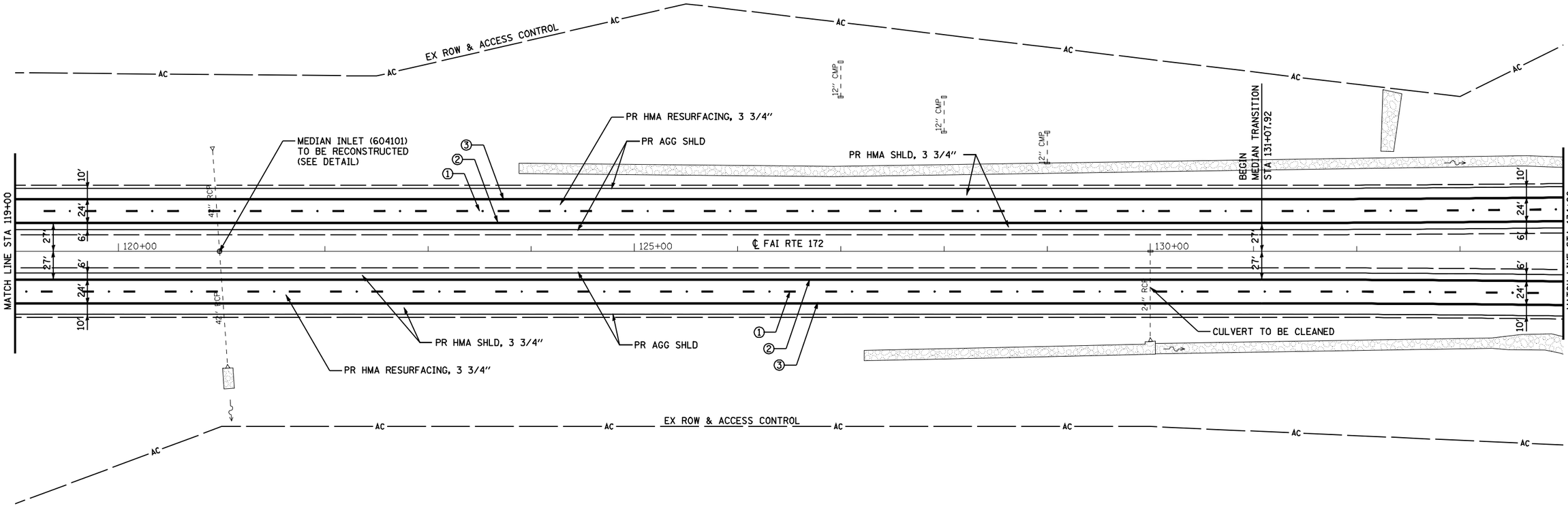
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FAI RTE 172 PLAN

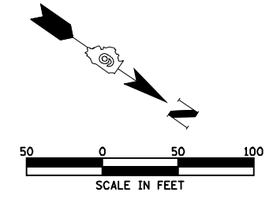
SCALE: 1"=50' | SHEET NO. 28 OF 52 SHEETS | STA. 104+00 | TO STA. 119+00

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
172	1-(1,2,3,4,5)RS	ADAMS	165	66
		CONTRACT NO. 72A09		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



PAVEMENT MARKIN LEGEND

① PR PREFORMED PLASTIC PAVEMENT MARKING, TYPE B (INLAID), LINE 5" (30' SKIP, 10' DASH WHITE)
② PR URETHANE PAVEMENT MARKING, LINE 5" (SOLID YELLOW)
③ PR URETHANE PAVEMENT MARKING, LINE 5" (SOLID WHITE)
④ PR URETHANE PAVEMENT MARKING, LINE 6" (SOLID WHITE)
⑤ PR PREFORMED PLASTIC PAVEMENT MARKING, TYPE B (INLAID), LINE 6" (6' SKIP, 2' DASH WHITE)
⑥ PR PREFORMED PLASTIC PAVEMENT MARKING, TYPE B (INLAID), LINE 8" (SOLID WHITE)
⑦ PR PREFORMED PLASTIC PAVEMENT MARKING, TYPE B (INLAID), LINE 12" (SOLID WHITE)
⑧ PR PREFORMED PLASTIC PAVEMENT MARKING, TYPE B (INLAID), LINE 12" (SOLID YELLOW)
⑨ PR PREFORMED PLASTIC PAVEMENT MARKING, TYPE B (INLAID), LINE 24" (SOLID WHITE)
⑩ PR PREFORMED PLASTIC PAVEMENT MARKING, TYPE B (INLAID), LETTERS AND SYMBOLS (SOLID WHITE)
▷ PR RAISED REFLECTIVE PAVEMENT MARKERS, ONE-WAY CRYSTAL
▶ PR RAISED REFLECTIVE PAVEMENT MARKERS, ONE-WAY AMBER
◆ PR RAISED REFLECTIVE PAVEMENT MARKERS, TWO-WAY AMBER



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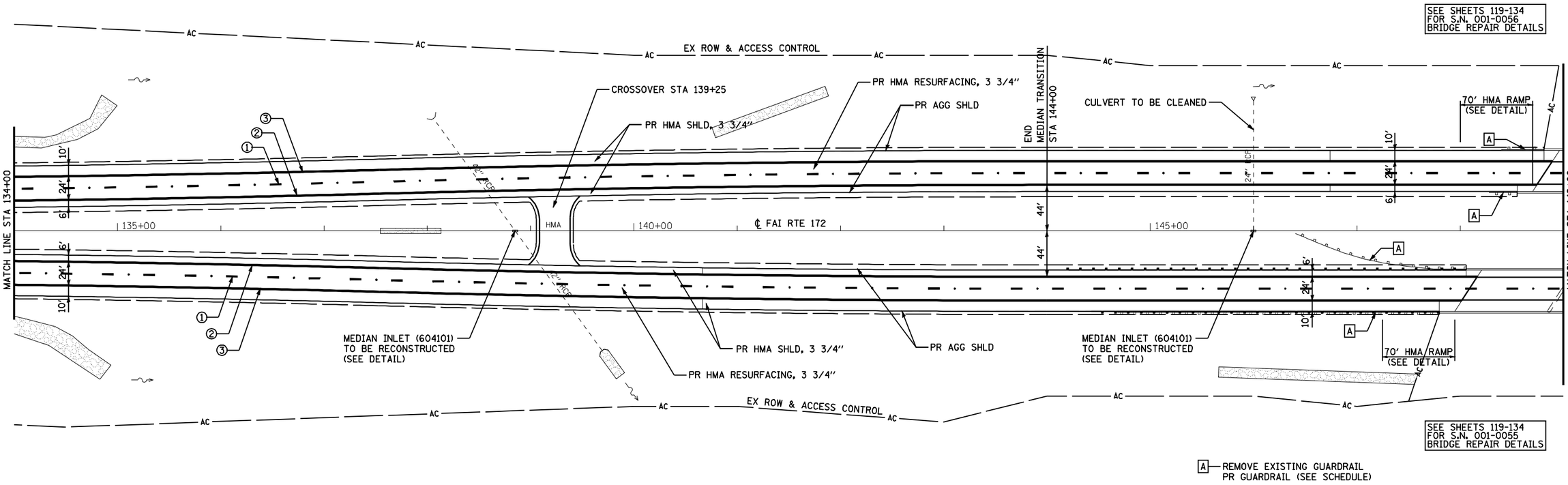
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FAI RTE 172 PLAN

SCALE: 1"=50' | SHEET NO. 29 OF 52 SHEETS | STA. 119+00 | TO STA. 134+00

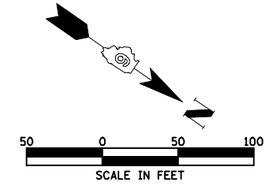
F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
172	1-(1,2,3,4,5)RS	ADAMS	165	67
		CONTRACT NO. 72A09		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



PAVEMENT MARKIN LEGEND

1. PR PREFORMED PLASTIC PAVEMENT MARKING, TYPE B (INLAID), LINE 5" (30' SKIP, 10' DASH WHITE)
2. PR URETHANE PAVEMENT MARKING, LINE 5" (SOLID YELLOW)
3. PR URETHANE PAVEMENT MARKING, LINE 5" (SOLID WHITE)
4. PR URETHANE PAVEMENT MARKING, LINE 6" (SOLID WHITE)
5. PR PREFORMED PLASTIC PAVEMENT MARKING, TYPE B (INLAID), LINE 6" (6' SKIP, 2' DASH WHITE)
6. PR PREFORMED PLASTIC PAVEMENT MARKING, TYPE B (INLAID), LINE 8" (SOLID WHITE)
7. PR PREFORMED PLASTIC PAVEMENT MARKING, TYPE B (INLAID), LINE 12" (SOLID WHITE)
8. PR PREFORMED PLASTIC PAVEMENT MARKING, TYPE B (INLAID), LINE 12" (SOLID YELLOW)
9. PR PREFORMED PLASTIC PAVEMENT MARKING, TYPE B (INLAID), LINE 24" (SOLID WHITE)
10. PR PREFORMED PLASTIC PAVEMENT MARKING, TYPE B (INLAID), LETTERS AND SYMBOLS (SOLID WHITE)

▷ PR RAISED REFLECTIVE PAVEMENT MARKERS, ONE-WAY CRYSTAL
▶ PR RAISED REFLECTIVE PAVEMENT MARKERS, ONE-WAY AMBER
◆ PR RAISED REFLECTIVE PAVEMENT MARKERS, TWO-WAY AMBER



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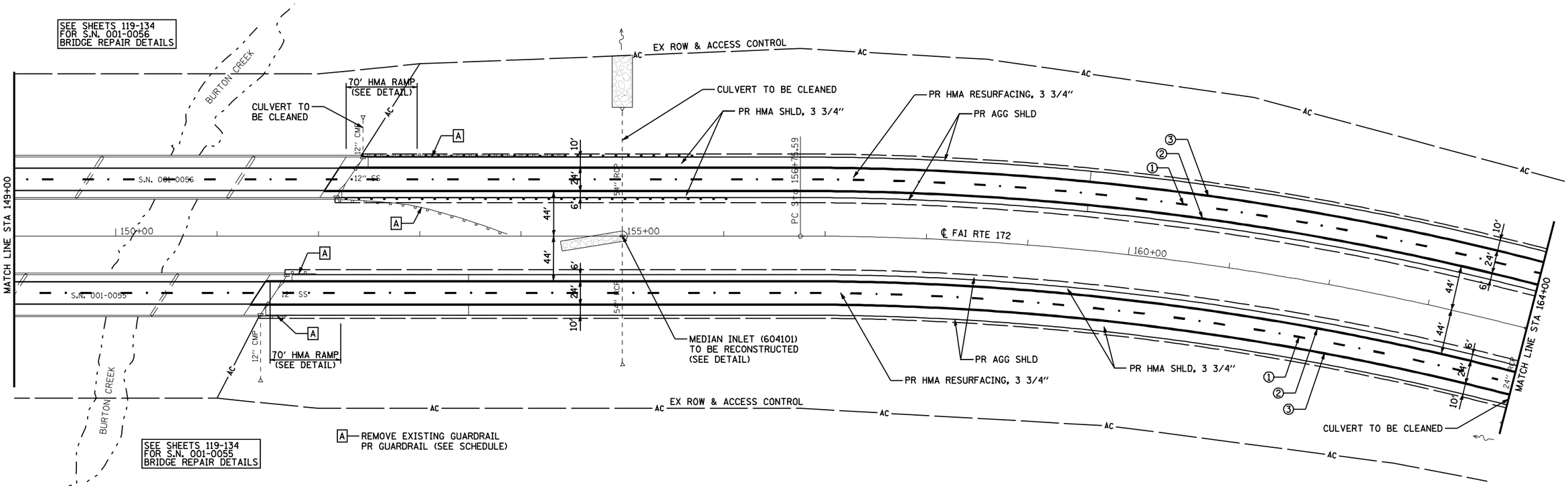
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FAI RTE 172 PLAN

SCALE: 1"=50' | SHEET NO. 30 OF 52 SHEETS | STA. 134+00 | TO STA. 149+00

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
172	1-(1,2,3,4,5)RS	ADAMS	165	68
		CONTRACT NO. 72A09		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

EXIST. CURVE C6
PI STA. = 181+71.55
Δ = 82° 07′ 42″ (RT)
D = 2° 00′ 00″
R = 2,864.79′
T = 2,495.96′
L = 4,106.41′
E = 934.79′
EX & PR S.E. = 6.0% (70 MPH DESIGN)
T.R. = 38.60′
S.E. RUN = 270.00′
P.C. STA. = 156+75.59
P.T. STA. = 197+82.00
S.E. ATTAINED:
STA 154+56.99 TO STA 157+65.59
STA 196+92.00 TO STA 33+06.18



PAVEMENT MARKIN LEGEND

① PR PREFORMED PLASTIC PAVEMENT MARKING, TYPE B (INLAID), LINE 5″ (30′ SKIP, 10′ DASH WHITE)
② PR URETHANE PAVEMENT MARKING, LINE 5″ (SOLID YELLOW)
③ PR URETHANE PAVEMENT MARKING, LINE 5″ (SOLID WHITE)
④ PR URETHANE PAVEMENT MARKING, LINE 6″ (SOLID WHITE)
⑤ PR PREFORMED PLASTIC PAVEMENT MARKING, TYPE B (INLAID), LINE 6″ (6′ SKIP, 2′ DASH WHITE)
⑥ PR PREFORMED PLASTIC PAVEMENT MARKING, TYPE B (INLAID), LINE 8″ (SOLID WHITE)
⑦ PR PREFORMED PLASTIC PAVEMENT MARKING, TYPE B (INLAID), LINE 12″ (SOLID WHITE)
⑧ PR PREFORMED PLASTIC PAVEMENT MARKING, TYPE B (INLAID), LINE 12″ (SOLID YELLOW)
⑨ PR PREFORMED PLASTIC PAVEMENT MARKING, TYPE B (INLAID), LINE 24″ (SOLID WHITE)
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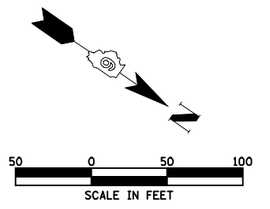
▷ PR RAISED REFLECTIVE PAVEMENT MARKERS, ONE-WAY CRYSTAL
▶ PR RAISED REFLECTIVE PAVEMENT MARKERS, ONE-WAY AMBER
◆ PR RAISED REFLECTIVE PAVEMENT MARKERS, TWO-WAY AMBER



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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FAI RTE 172 PLAN

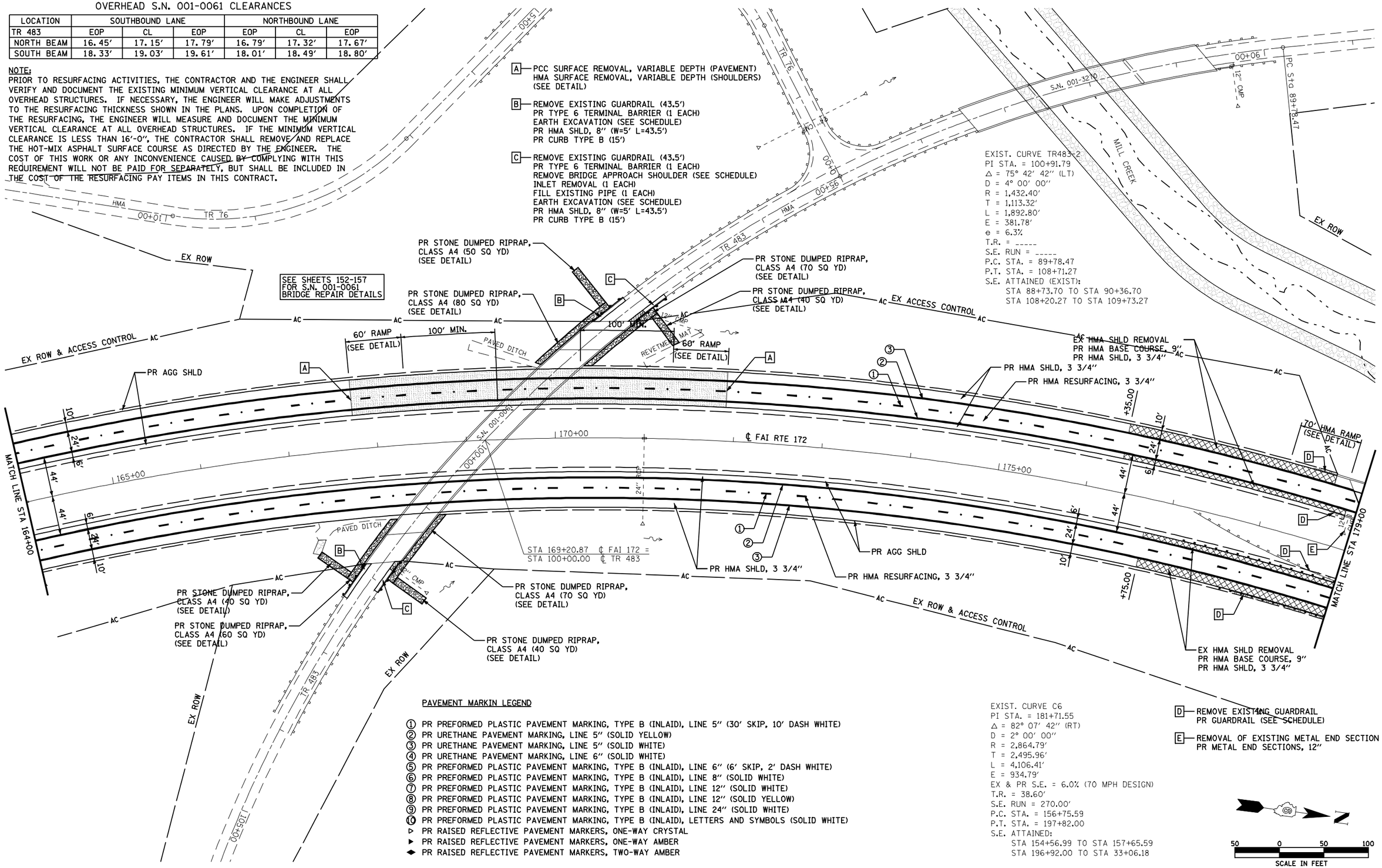
SCALE: 1″=50′ | SHEET NO. 31 OF 52 SHEETS | STA. 149+00 | TO STA. 164+00

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
172	1-(1,2,3,4,5)RS	ADAMS	165	69
		CONTRACT NO. 72A09		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

OVERHEAD S.N. 001-0061 CLEARANCES

LOCATION	SOUTHBOUND LANE			NORTHBOUND LANE		
TR 483	EOP	CL	EOP	EOP	CL	EOP
NORTH BEAM	16.45′	17.15′	17.79′	16.79′	17.32′	17.67′
SOUTH BEAM	18.33′	19.03′	19.61′	18.01′	18.49′	18.80′

NOTE:
PRIOR TO RESURFACING ACTIVITIES, THE CONTRACTOR AND THE ENGINEER SHALL VERIFY AND DOCUMENT THE EXISTING MINIMUM VERTICAL CLEARANCE AT ALL OVERHEAD STRUCTURES. IF NECESSARY, THE ENGINEER WILL MAKE ADJUSTMENTS TO THE RESURFACING THICKNESS SHOWN IN THE PLANS. UPON COMPLETION OF THE RESURFACING, THE ENGINEER WILL MEASURE AND DOCUMENT THE MINIMUM VERTICAL CLEARANCE AT ALL OVERHEAD STRUCTURES. IF THE MINIMUM VERTICAL CLEARANCE IS LESS THAN 16′-0″, THE CONTRACTOR SHALL REMOVE AND REPLACE THE HOT-MIX ASPHALT SURFACE COURSE AS DIRECTED BY THE ENGINEER. THE COST OF THIS WORK OR ANY INCONVENIENCE CAUSED BY COMPLYING WITH THIS REQUIREMENT WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE COST OF THE RESURFACING PAY ITEMS IN THIS CONTRACT.



PAVEMENT MARKIN LEGEND

① PR PREFORMED PLASTIC PAVEMENT MARKING, TYPE B (INLAID), LINE 5″ (30′ SKIP, 10′ DASH WHITE)
② PR URETHANE PAVEMENT MARKING, LINE 5″ (SOLID YELLOW)
③ PR URETHANE PAVEMENT MARKING, LINE 5″ (SOLID WHITE)
④ PR URETHANE PAVEMENT MARKING, LINE 6″ (SOLID WHITE)
⑤ PR PREFORMED PLASTIC PAVEMENT MARKING, TYPE B (INLAID), LINE 6″ (6′ SKIP, 2′ DASH WHITE)
⑥ PR PREFORMED PLASTIC PAVEMENT MARKING, TYPE B (INLAID), LINE 8″ (SOLID WHITE)
⑦ PR PREFORMED PLASTIC PAVEMENT MARKING, TYPE B (INLAID), LINE 12″ (SOLID WHITE)
⑧ PR PREFORMED PLASTIC PAVEMENT MARKING, TYPE B (INLAID), LINE 12″ (SOLID YELLOW)
⑨ PR PREFORMED PLASTIC PAVEMENT MARKING, TYPE B (INLAID), LINE 24″ (SOLID WHITE)
⑩ PR PREFORMED PLASTIC PAVEMENT MARKING, TYPE B (INLAID), LETTERS AND SYMBOLS (SOLID WHITE)
▷ PR RAISED REFLECTIVE PAVEMENT MARKERS, ONE-WAY CRYSTAL
▶ PR RAISED REFLECTIVE PAVEMENT MARKERS, ONE-WAY AMBER
◆ PR RAISED REFLECTIVE PAVEMENT MARKERS, TWO-WAY AMBER

EXIST. CURVE C6
PI STA. = 181+71.55
Δ = 82° 07′ 42″ (RT)
D = 2° 00′ 00″
R = 2,864.79′
T = 2,495.96′
L = 4,106.41′
E = 934.79′
EX & PR S.E. = 6.0% (70 MPH DESIGN)
T.R. = 38.60′
S.E. RUN = 270.00′
P.C. STA. = 156+75.59
P.T. STA. = 197+82.00
S.E. ATTAINED:
STA 154+56.99 TO STA 157+65.59
STA 196+92.00 TO STA 33+06.18

D — REMOVE EXISTING GUARDRAIL
PR GUARDRAIL (SEE SCHEDULE)

E — REMOVAL OF EXISTING METAL END SECTION
PR METAL END SECTIONS, 12″

50 0 50 100
SCALE IN FEET

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		DRAWN -	REVISED -
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	PLOT DATE = Feb-01-2010 09:36:23AM	DATE -	REVISED -

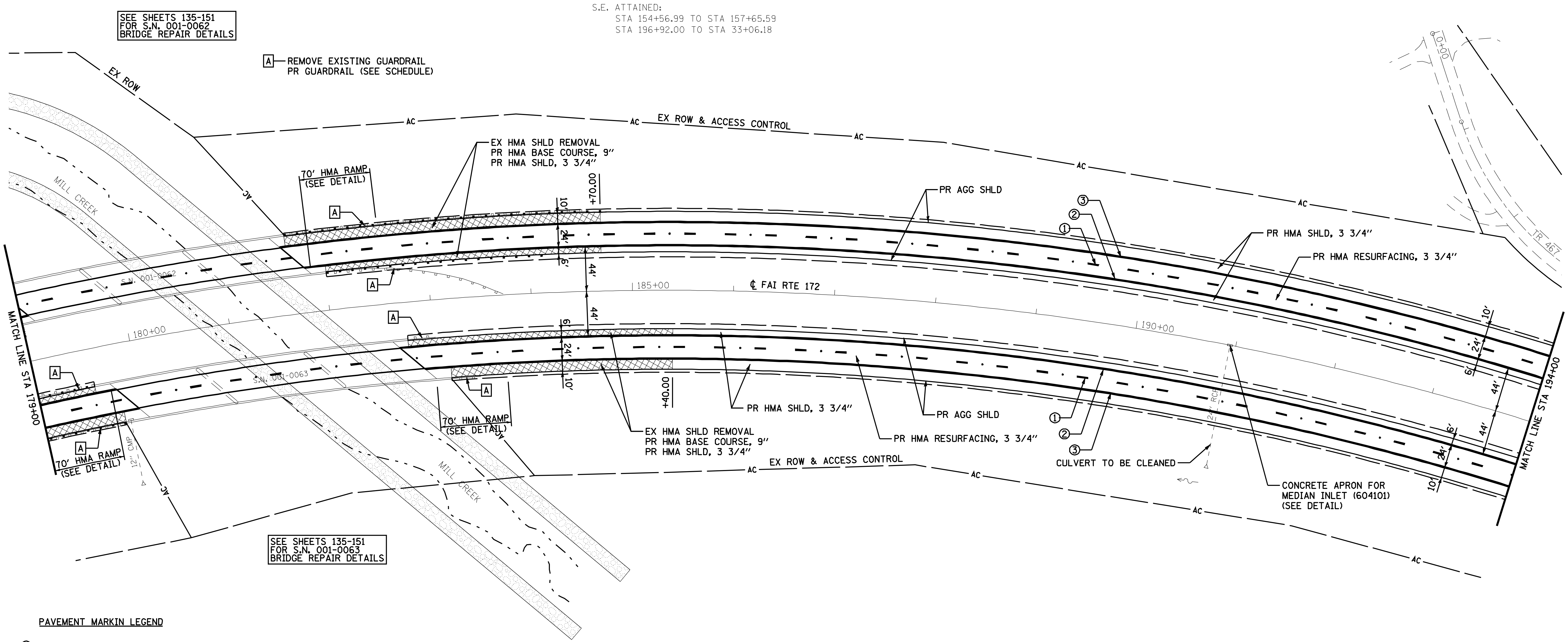
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FAI RTE 172 PLAN

SCALE: 1″=50′ | SHEET NO. 32 OF 52 SHEETS | STA. 164+00 | TO STA. 179+00

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
172	1-(1,2,3,4,5)RS	ADAMS	165	70
		CONTRACT NO. 72A09		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

EXIST. CURVE C6
PI STA. = 181+71.55
Δ = 82° 07′ 42″ (RT)
D = 2° 00′ 00″
R = 2,864.79′
T = 2,495.96′
L = 4,106.41′
E = 934.79′
EX & PR S.E. = 6.0% (70 MPH DESIGN)
T.R. = 38.60′
S.E. RUN = 270.00′
P.C. STA. = 156+75.59
P.T. STA. = 197+82.00
S.E. ATTAINED:
STA 154+56.99 TO STA 157+65.59
STA 196+92.00 TO STA 33+06.18



PAVEMENT MARKIN LEGEND

① PR PREFORMED PLASTIC PAVEMENT MARKING, TYPE B (INLAID), LINE 5″ (30′ SKIP, 10′ DASH WHITE)
② PR URETHANE PAVEMENT MARKING, LINE 5″ (SOLID YELLOW)
③ PR URETHANE PAVEMENT MARKING, LINE 5″ (SOLID WHITE)
④ PR URETHANE PAVEMENT MARKING, LINE 6″ (SOLID WHITE)
⑤ PR PREFORMED PLASTIC PAVEMENT MARKING, TYPE B (INLAID), LINE 6″ (6′ SKIP, 2′ DASH WHITE)
⑥ PR PREFORMED PLASTIC PAVEMENT MARKING, TYPE B (INLAID), LINE 8″ (SOLID WHITE)
⑦ PR PREFORMED PLASTIC PAVEMENT MARKING, TYPE B (INLAID), LINE 12″ (SOLID WHITE)
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⑩ PR PREFORMED PLASTIC PAVEMENT MARKING, TYPE B (INLAID), LETTERS AND SYMBOLS (SOLID WHITE)
▷ PR RAISED REFLECTIVE PAVEMENT MARKERS, ONE-WAY CRYSTAL
► PR RAISED REFLECTIVE PAVEMENT MARKERS, ONE-WAY AMBER
◆ PR RAISED REFLECTIVE PAVEMENT MARKERS, TWO-WAY AMBER

50 0 50 100
SCALE IN FEET

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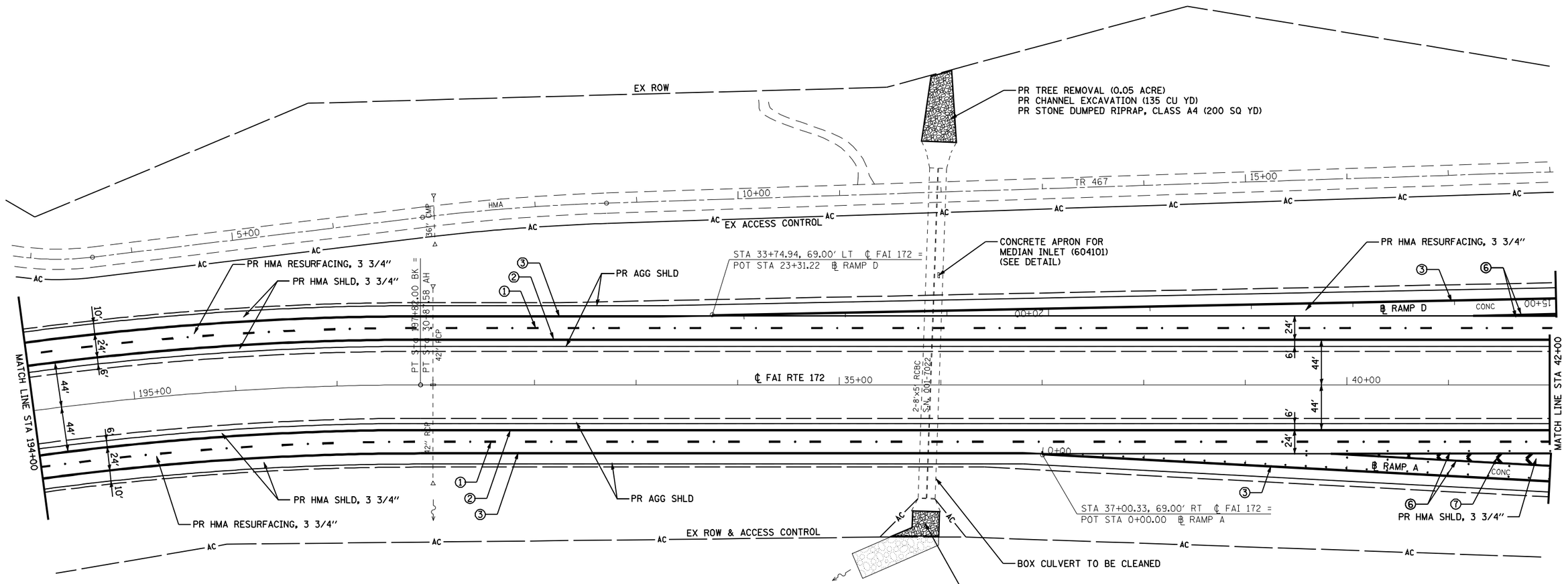
		DRAWN	REVISED -		
	PLOT SCALE = 100.0000 ′ / IN.	CHECKED -	REVISED -		
	PLOT DATE = Feb-01-2010 09:36:26AM	DATE -	REVISED -		SCALE: 1″=50′ SHEET NO. 33 OF 52 SHEETS STA. 179+00 TO STA. 194+00

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
172	1-(1,2,3,4,5)RS	ADAMS	165	71
		CONTRACT NO. 72A09		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



EXIST. CURVE C6
PI STA. = 181+71.55
△ = 82° 07' 42" (RT)
D = 2° 00' 00"
R = 2,864.79'
T = 2,495.96'
L = 4,106.41'
E = 934.79'
EX & PR S.E. = 6.0% (70 MPH DESIGN)
T.R. = 38.60'
S.E. RUN = 270.00'
P.C. STA. = 156+75.59
P.T. STA. = 197+82.00
S.E. ATTAINED:
STA 154+56.99 TO STA 157+65.59
STA 196+92.00 TO STA 33+06.18

PAVEMENT MARKIN LEGEND

① PR PREFORMED PLASTIC PAVEMENT MARKING, TYPE B (INLAID), LINE 5" (30' SKIP, 10' DASH WHITE)
② PR URETHANE PAVEMENT MARKING, LINE 5" (SOLID YELLOW)
③ PR URETHANE PAVEMENT MARKING, LINE 5" (SOLID WHITE)
④ PR URETHANE PAVEMENT MARKING, LINE 6" (SOLID WHITE)
⑤ PR PREFORMED PLASTIC PAVEMENT MARKING, TYPE B (INLAID), LINE 6" (6' SKIP, 2' DASH WHITE)
⑥ PR PREFORMED PLASTIC PAVEMENT MARKING, TYPE B (INLAID), LINE 8" (SOLID WHITE)
⑦ PR PREFORMED PLASTIC PAVEMENT MARKING, TYPE B (INLAID), LINE 12" (SOLID WHITE)
⑧ PR PREFORMED PLASTIC PAVEMENT MARKING, TYPE B (INLAID), LINE 12" (SOLID YELLOW)
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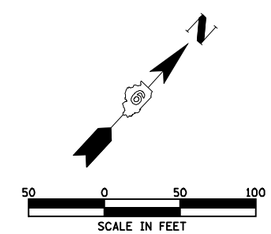
△ PR RAISED REFLECTIVE PAVEMENT MARKERS, ONE-WAY CRYSTAL
▶ PR RAISED REFLECTIVE PAVEMENT MARKERS, ONE-WAY AMBER
◆ PR RAISED REFLECTIVE PAVEMENT MARKERS, TWO-WAY AMBER



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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FAI RTE 172 PLAN

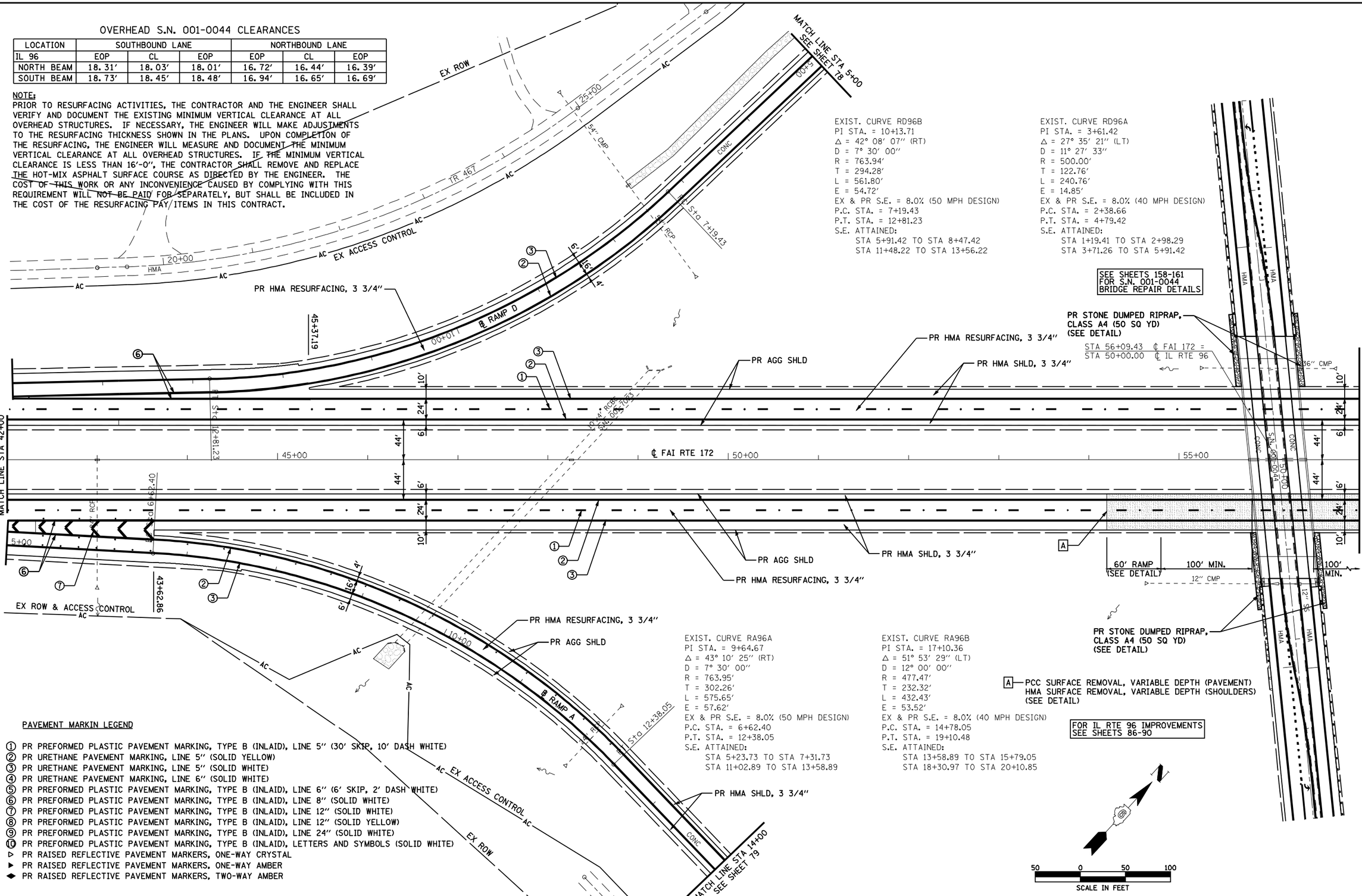
SCALE: 1"=50' | SHEET NO. 34 OF 52 SHEETS | STA. 194+00 | TO STA. 42+00

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
172	1-(1,2,3,4,5)RS	ADAMS	165	72
		CONTRACT NO. 72A09		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

OVERHEAD S.N. 001-0044 CLEARANCES

LOCATION	SOUTHBOUND LANE			NORTHBOUND LANE		
IL 96	EOP	CL	EOP	EOP	CL	EOP
NORTH BEAM	18.31′	18.03′	18.01′	16.72′	16.44′	16.39′
SOUTH BEAM	18.73′	18.45′	18.48′	16.94′	16.65′	16.69′

NOTE:
PRIOR TO RESURFACING ACTIVITIES, THE CONTRACTOR AND THE ENGINEER SHALL VERIFY AND DOCUMENT THE EXISTING MINIMUM VERTICAL CLEARANCE AT ALL OVERHEAD STRUCTURES. IF NECESSARY, THE ENGINEER WILL MAKE ADJUSTMENTS TO THE RESURFACING THICKNESS SHOWN IN THE PLANS. UPON COMPLETION OF THE RESURFACING, THE ENGINEER WILL MEASURE AND DOCUMENT THE MINIMUM VERTICAL CLEARANCE AT ALL OVERHEAD STRUCTURES. IF THE MINIMUM VERTICAL CLEARANCE IS LESS THAN 16′-0″, THE CONTRACTOR SHALL REMOVE AND REPLACE THE HOT-MIX ASPHALT SURFACE COURSE AS DIRECTED BY THE ENGINEER. THE COST OF THIS WORK OR ANY INCONVENIENCE CAUSED BY COMPLYING WITH THIS REQUIREMENT WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE COST OF THE RESURFACING PAY ITEMS IN THIS CONTRACT.



EXIST. CURVE RD96B
PI STA. = 10+13.71
Δ = 42° 08′ 07″ (RT)
D = 7° 30′ 00″
R = 763.94′
T = 294.28′
L = 561.80′
E = 54.72′
EX & PR S.E. = 8.0% (50 MPH DESIGN)
P.C. STA. = 7+19.43
P.T. STA. = 12+81.23
S.E. ATTAINED:
STA 5+91.42 TO STA 8+47.42
STA 11+48.22 TO STA 13+56.22

EXIST. CURVE RD96A
PI STA. = 3+61.42
Δ = 27° 35′ 21″ (LT)
D = 11° 27′ 33″
R = 500.00′
T = 122.76′
L = 240.76′
E = 14.85′
EX & PR S.E. = 8.0% (40 MPH DESIGN)
P.C. STA. = 2+38.66
P.T. STA. = 4+79.42
S.E. ATTAINED:
STA 1+19.41 TO STA 2+98.29
STA 3+71.26 TO STA 5+91.42

SEE SHEETS 158-161
FOR S.N. 001-0044
BRIDGE REPAIR DETAILS

EXIST. CURVE RA96A
PI STA. = 9+64.67
Δ = 43° 10′ 25″ (RT)
D = 7° 30′ 00″
R = 763.95′
T = 302.26′
L = 575.65′
E = 57.62′
EX & PR S.E. = 8.0% (50 MPH DESIGN)
P.C. STA. = 6+62.40
P.T. STA. = 12+38.05
S.E. ATTAINED:
STA 5+23.73 TO STA 7+31.73
STA 11+02.89 TO STA 13+58.89

EXIST. CURVE RA96B
PI STA. = 17+10.36
Δ = 51° 53′ 29″ (LT)
D = 12° 00′ 00″
R = 477.47′
T = 232.32′
L = 432.43′
E = 53.52′
EX & PR S.E. = 8.0% (40 MPH DESIGN)
P.C. STA. = 14+78.05
P.T. STA. = 19+10.48
S.E. ATTAINED:
STA 13+58.89 TO STA 15+79.05
STA 18+30.97 TO STA 20+10.85

FOR IL RTE 96 IMPROVEMENTS
SEE SHEETS 86-90

PAVEMENT MARKIN LEGEND

① PR PREFORMED PLASTIC PAVEMENT MARKING, TYPE B (INLAID), LINE 5″ (30′ SKIP, 10′ DASH WHITE)
② PR URETHANE PAVEMENT MARKING, LINE 5″ (SOLID YELLOW)
③ PR URETHANE PAVEMENT MARKING, LINE 5″ (SOLID WHITE)
④ PR URETHANE PAVEMENT MARKING, LINE 6″ (SOLID WHITE)
⑤ PR PREFORMED PLASTIC PAVEMENT MARKING, TYPE B (INLAID), LINE 6″ (6′ SKIP, 2′ DASH WHITE)
⑥ PR PREFORMED PLASTIC PAVEMENT MARKING, TYPE B (INLAID), LINE 8″ (SOLID WHITE)
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⑩ PR PREFORMED PLASTIC PAVEMENT MARKING, TYPE B (INLAID), LETTERS AND SYMBOLS (SOLID WHITE)
▷ PR RAISED REFLECTIVE PAVEMENT MARKERS, ONE-WAY CRYSTAL
▶ PR RAISED REFLECTIVE PAVEMENT MARKERS, ONE-WAY AMBER
◆ PR RAISED REFLECTIVE PAVEMENT MARKERS, TWO-WAY AMBER

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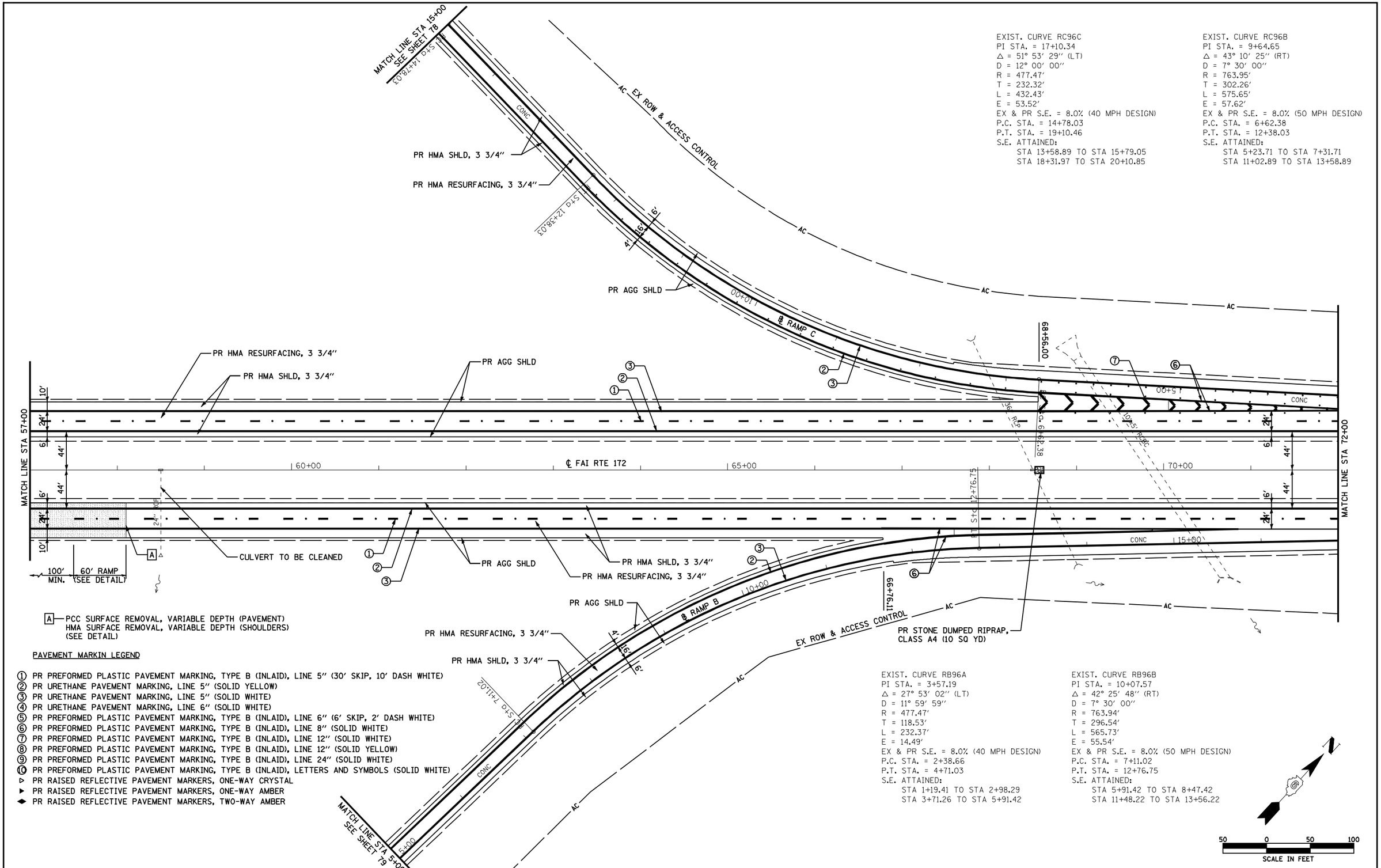
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FAI RTE 172 PLAN

SCALE: 1″=50′ | SHEET NO. 35 OF 52 SHEETS | STA. 42+00 | TO STA. 57+00

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
172	1-(1,2,3,4,5)RS	ADAMS	165	73
		CONTRACT NO. 72A09		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



EXIST. CURVE RC96C
PI STA. = 17+10.34
Δ = 51° 53′ 29″ (LT)
D = 12° 00′ 00″
R = 477.47′
T = 232.32′
L = 432.43′
E = 53.52′
EX & PR S.E. = 8.0% (40 MPH DESIGN)
P.C. STA. = 14+78.03
P.T. STA. = 19+10.46
S.E. ATTAINED:
STA 13+58.89 TO STA 15+79.05
STA 18+31.97 TO STA 20+10.85

EXIST. CURVE RC96B
PI STA. = 9+64.65
Δ = 43° 10′ 25″ (RT)
D = 7° 30′ 00″
R = 763.95′
T = 302.26′
L = 575.65′
E = 57.62′
EX & PR S.E. = 8.0% (50 MPH DESIGN)
P.C. STA. = 6+62.38
P.T. STA. = 12+38.03
S.E. ATTAINED:
STA 5+23.71 TO STA 7+31.71
STA 11+02.89 TO STA 13+58.89

Ⓐ — PCC SURFACE REMOVAL, VARIABLE DEPTH (PAVEMENT)
HMA SURFACE REMOVAL, VARIABLE DEPTH (SHOULDERS)
(SEE DETAIL)

PAVEMENT MARKIN LEGEND

① PR PREFORMED PLASTIC PAVEMENT MARKING, TYPE B (INLAID), LINE 5″ (30′ SKIP, 10′ DASH WHITE)
② PR URETHANE PAVEMENT MARKING, LINE 5″ (SOLID YELLOW)
③ PR URETHANE PAVEMENT MARKING, LINE 5″ (SOLID WHITE)
④ PR URETHANE PAVEMENT MARKING, LINE 6″ (SOLID WHITE)
⑤ PR PREFORMED PLASTIC PAVEMENT MARKING, TYPE B (INLAID), LINE 6″ (6′ SKIP, 2′ DASH WHITE)
⑥ PR PREFORMED PLASTIC PAVEMENT MARKING, TYPE B (INLAID), LINE 8″ (SOLID WHITE)
⑦ PR PREFORMED PLASTIC PAVEMENT MARKING, TYPE B (INLAID), LINE 12″ (SOLID WHITE)
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⑩ PR PREFORMED PLASTIC PAVEMENT MARKING, TYPE B (INLAID), LETTERS AND SYMBOLS (SOLID WHITE)
▷ PR RAISED REFLECTIVE PAVEMENT MARKERS, ONE-WAY CRYSTAL
▶ PR RAISED REFLECTIVE PAVEMENT MARKERS, ONE-WAY AMBER
◀▶ PR RAISED REFLECTIVE PAVEMENT MARKERS, TWO-WAY AMBER

EXIST. CURVE RB96A
PI STA. = 3+57.19
Δ = 27° 53′ 02″ (LT)
D = 11° 59′ 59″
R = 477.47′
T = 118.53′
L = 232.37′
E = 14.49′
EX & PR S.E. = 8.0% (40 MPH DESIGN)
P.C. STA. = 2+38.66
P.T. STA. = 4+71.03
S.E. ATTAINED:
STA 1+19.41 TO STA 2+98.29
STA 3+71.26 TO STA 5+91.42

EXIST. CURVE RB96B
PI STA. = 10+07.57
Δ = 42° 25′ 48″ (RT)
D = 7° 30′ 00″
R = 763.94′
T = 296.54′
L = 565.73′
E = 55.54′
EX & PR S.E. = 8.0% (50 MPH DESIGN)
P.C. STA. = 7+11.02
P.T. STA. = 12+76.75
S.E. ATTAINED:
STA 5+91.42 TO STA 8+47.42
STA 11+48.22 TO STA 13+56.22

50 0 50 100
SCALE IN FEET

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	PLOT DATE = Feb-01-2010 09:36:35AM	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

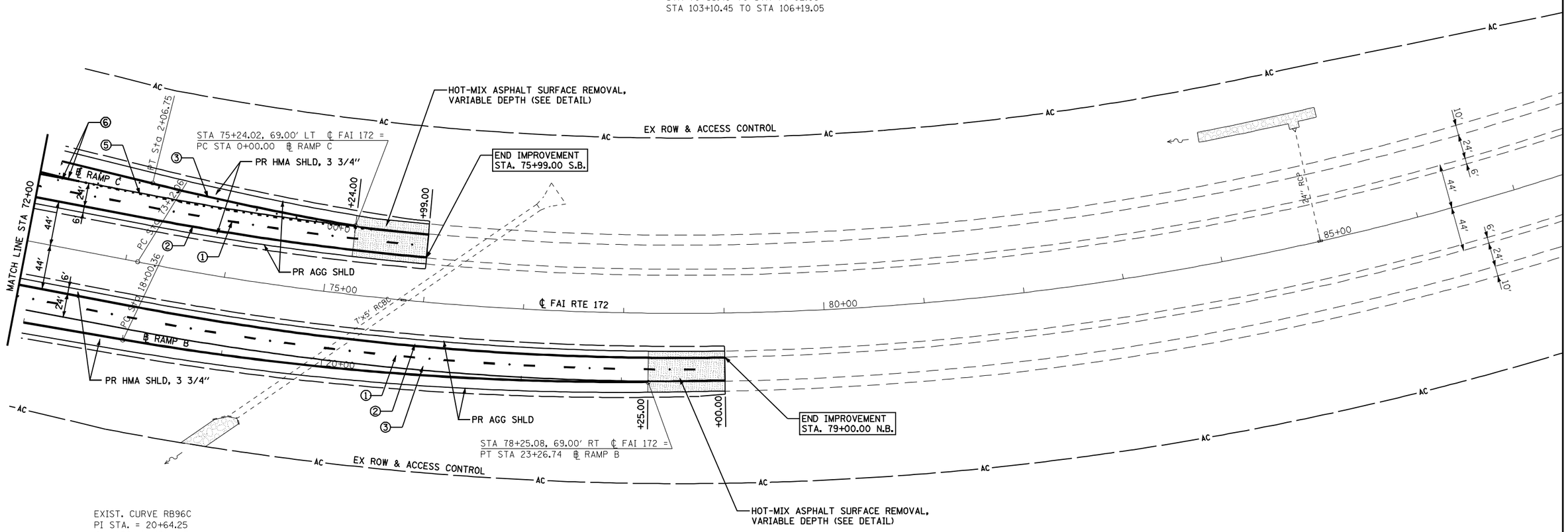
FAI RTE 172 PLAN

SCALE: 1"=50' | SHEET NO. 36 OF 52 SHEETS | STA. 57+00 | TO STA. 72+00

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
172	1-(1,2,3,4,5)RS	ADAMS	165	74
		CONTRACT NO. 72A09		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

EXIST. CURVE RC96A1
PI STA. = 1+03.42
△ = 4° 14′ 36″ (RT)
D = 2° 03′ 08″
R = 2,791.72′
T = 103.42′
L = 206.75′
E = 1.92′
EX & PR S.E. = 6.0% (70 MPH DESIGN)
P.C. STA. = 0+00.00
P.T. STA. = 2+06.75
S.E. ATTAINED:
MATCH FAI 172

EXIST. CURVE C7
PI STA. = 90+24.84
△ = 61° 39′ 37″ (LT)
D = 1° 59′ 47″
R = 2,869.79′
T = 1,712.78′
L = 3,088.39′
E = 472.26′
EX & PR S.E. = 6.0% (70 MPH DESIGN)
T.R. = 38.60′
S.E. RUN = 270.00′
P.C. STA. = 73+12.06
P.T. STA. = 104+00.45
S.E. ATTAINED:
STA 70+93.46 TO STA 74+02.06
STA 103+10.45 TO STA 106+19.05



EXIST. CURVE RB96C
PI STA. = 20+64.25
△ = 10° 14′ 48″ (LT)
D = 1° 56′ 48″
R = 2,943.42′
T = 263.90′
L = 526.39′
E = 11.81′
EX & PR S.E. = 6.0% (70 MPH DESIGN)
P.C. STA. = 18+00.36
P.T. STA. = 23+26.74
S.E. ATTAINED:
MATCH FAI 172

PAVEMENT MARKIN LEGEND

① PR PREFORMED PLASTIC PAVEMENT MARKING, TYPE B (INLAID), LINE 5″ (30′ SKIP, 10′ DASH WHITE)
② PR URETHANE PAVEMENT MARKING, LINE 5″ (SOLID YELLOW)
③ PR URETHANE PAVEMENT MARKING, LINE 5″ (SOLID WHITE)
④ PR URETHANE PAVEMENT MARKING, LINE 6″ (SOLID WHITE)
⑤ PR PREFORMED PLASTIC PAVEMENT MARKING, TYPE B (INLAID), LINE 6″ (6′ SKIP, 2′ DASH WHITE)
⑥ PR PREFORMED PLASTIC PAVEMENT MARKING, TYPE B (INLAID), LINE 8″ (SOLID WHITE)
⑦ PR PREFORMED PLASTIC PAVEMENT MARKING, TYPE B (INLAID), LINE 12″ (SOLID WHITE)
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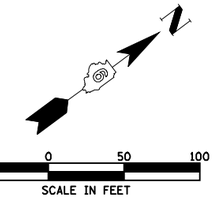
▷ PR RAISED REFLECTIVE PAVEMENT MARKERS, ONE-WAY CRYSTAL
▶ PR RAISED REFLECTIVE PAVEMENT MARKERS, ONE-WAY AMBER
◀▶ PR RAISED REFLECTIVE PAVEMENT MARKERS, TWO-WAY AMBER



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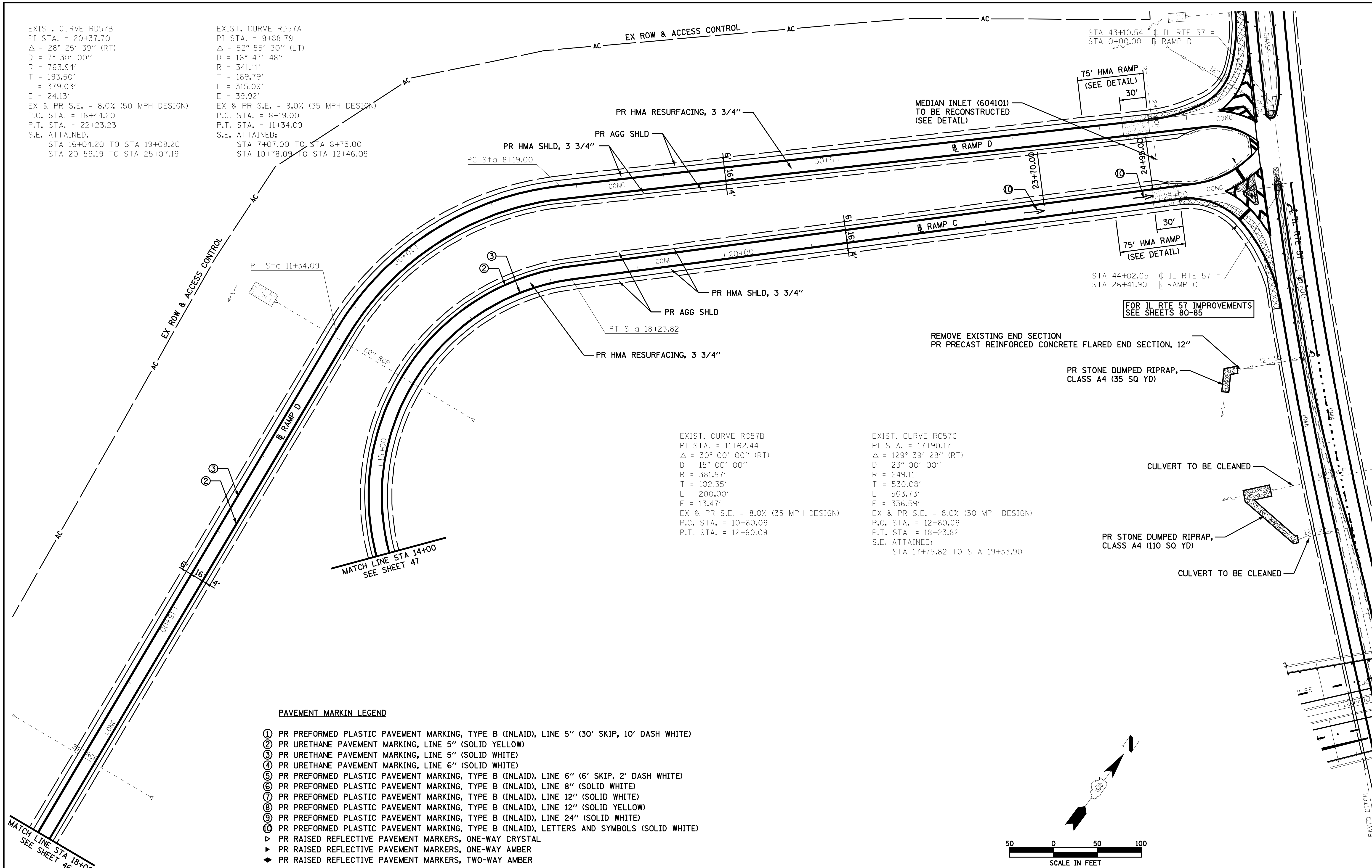
		DRAWN -	REVISED -
	PLOT SCALE = 100.0000 ′ / IN.	CHECKED -	REVISED -
	PLOT DATE = Feb-01-2010 09:36:37AM	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FAI RTE 172 PLAN

SCALE: 1″=50′ | SHEET NO. 37 OF 52 SHEETS | STA. 72+00 | TO STA. 79+00

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
172	1-(1,2,3,4,5)RS	ADAMS	165	75
		CONTRACT NO. 72A09		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



EXIST. CURVE RD57B
PI STA. = 20+37.70
△ = 28° 25' 39" (RT)
D = 7° 30' 00"
R = 763.94'
T = 193.50'
L = 379.03'
E = 24.13'
EX & PR S.E. = 8.0% (50 MPH DESIGN)
P.C. STA. = 18+44.20
P.T. STA. = 22+23.23
S.E. ATTAINED:
STA 16+04.20 TO STA 19+08.20
STA 20+59.19 TO STA 25+07.19

EXIST. CURVE RD57A
PI STA. = 9+88.79
△ = 52° 55' 30" (LT)
D = 16° 47' 48"
R = 341.11'
T = 169.79'
L = 315.09'
E = 39.92'
EX & PR S.E. = 8.0% (35 MPH DESIGN)
P.C. STA. = 8+19.00
P.T. STA. = 11+34.09
S.E. ATTAINED:
STA 7+07.00 TO STA 8+75.00
STA 10+78.09 TO STA 12+46.09

EXIST. CURVE RC57B
PI STA. = 11+62.44
△ = 30° 00' 00" (RT)
D = 15° 00' 00"
R = 381.97'
T = 102.35'
L = 200.00'
E = 13.47'
EX & PR S.E. = 8.0% (35 MPH DESIGN)
P.C. STA. = 10+60.09
P.T. STA. = 12+60.09

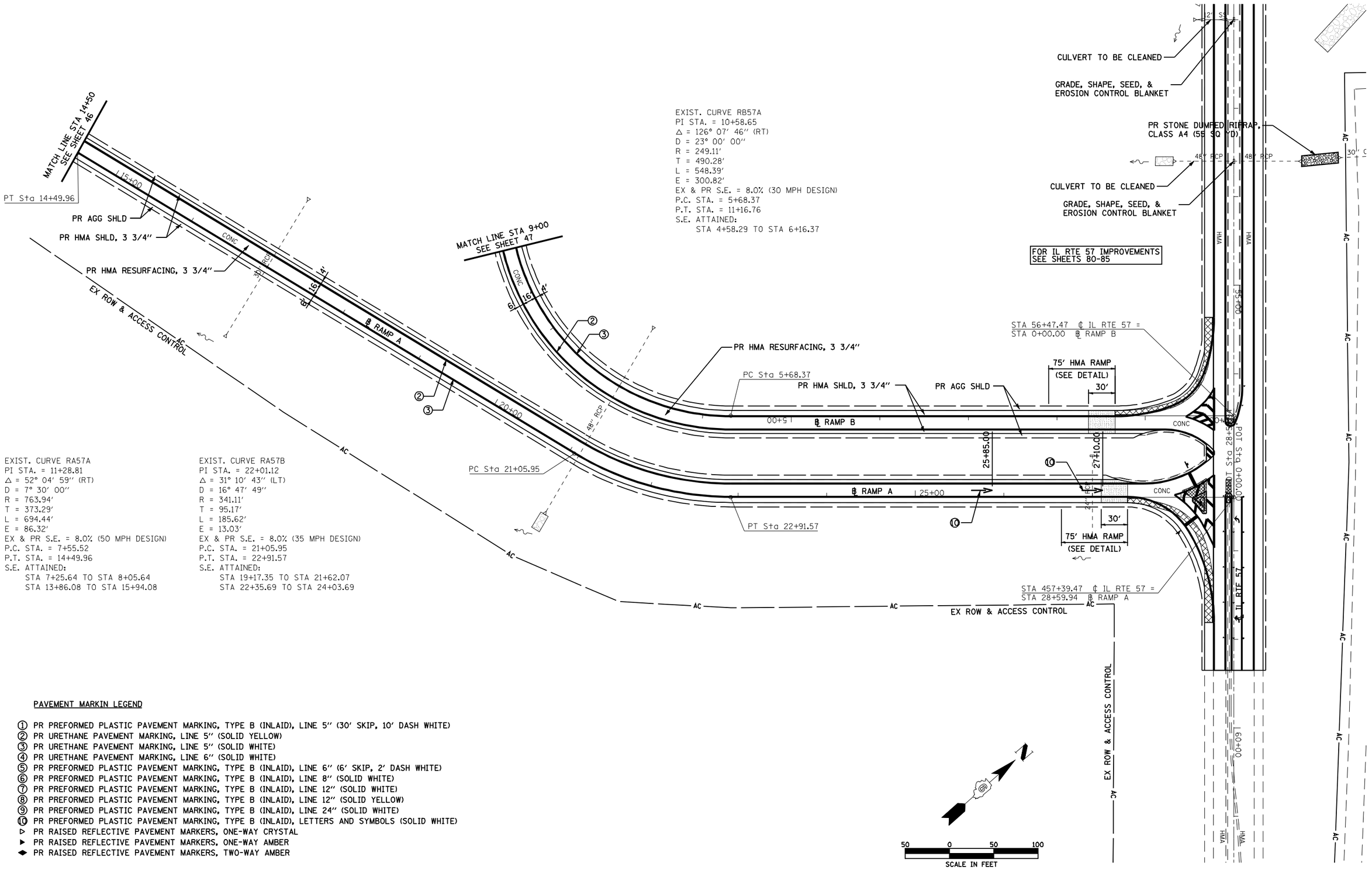
EXIST. CURVE RC57C
PI STA. = 17+90.17
△ = 129° 39' 28" (RT)
D = 23° 00' 00"
R = 249.11'
T = 530.08'
L = 563.73'
E = 336.59'
EX & PR S.E. = 8.0% (30 MPH DESIGN)
P.C. STA. = 12+60.09
P.T. STA. = 18+23.82
S.E. ATTAINED:
STA 17+75.82 TO STA 19+33.90

PAVEMENT MARKIN LEGEND

① PR PREFORMED PLASTIC PAVEMENT MARKING, TYPE B (INLAID), LINE 5" (30' SKIP, 10' DASH WHITE)
② PR URETHANE PAVEMENT MARKING, LINE 5" (SOLID YELLOW)
③ PR URETHANE PAVEMENT MARKING, LINE 5" (SOLID WHITE)
④ PR URETHANE PAVEMENT MARKING, LINE 6" (SOLID WHITE)
⑤ PR PREFORMED PLASTIC PAVEMENT MARKING, TYPE B (INLAID), LINE 6" (6' SKIP, 2' DASH WHITE)
⑥ PR PREFORMED PLASTIC PAVEMENT MARKING, TYPE B (INLAID), LINE 8" (SOLID WHITE)
⑦ PR PREFORMED PLASTIC PAVEMENT MARKING, TYPE B (INLAID), LINE 12" (SOLID WHITE)
⑧ PR PREFORMED PLASTIC PAVEMENT MARKING, TYPE B (INLAID), LINE 12" (SOLID YELLOW)
⑨ PR PREFORMED PLASTIC PAVEMENT MARKING, TYPE B (INLAID), LINE 24" (SOLID WHITE)
⑩ PR PREFORMED PLASTIC PAVEMENT MARKING, TYPE B (INLAID), LETTERS AND SYMBOLS (SOLID WHITE)
▷ PR RAISED REFLECTIVE PAVEMENT MARKERS, ONE-WAY CRYSTAL
▶ PR RAISED REFLECTIVE PAVEMENT MARKERS, ONE-WAY AMBER
◆ PR RAISED REFLECTIVE PAVEMENT MARKERS, TWO-WAY AMBER

FILE NAME = c:\pw_work\PWIDOT\LAUGHLINRL\d0182983\076_Plan_IL57_Ramps.dgn	USER NAME = laughlinrl	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	IL RTE 57 INTERCHANGE RAMPS C & D PLAN
	PLOT SCALE = 100.0000 ' / IN.	DRAWN -	REVISED -		SCALE: 1"=50'
	PLOT DATE = Feb-01-2010 09:36:40AM	CHECKED -	REVISED -		SHEET NO. 38 OF 52 SHEETS STA. TO STA.
		DATE -	REVISED -		

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
172	1-(1,2,3,4,5)RS	ADAMS	165	76
CONTRACT NO. 72A09				
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			



EXIST. CURVE RA57A
PI STA. = 11+28.81
△ = 52° 04' 59" (RT)
D = 7° 30' 00"
R = 763.94'
T = 373.29'
L = 694.44'
E = 86.32'
EX & PR S.E. = 8.0% (50 MPH DESIGN)
P.C. STA. = 7+55.52
P.T. STA. = 14+49.96
S.E. ATTAINED:
STA 7+25.64 TO STA 8+05.64
STA 13+86.08 TO STA 15+94.08

EXIST. CURVE RA57B
PI STA. = 22+01.12
△ = 31° 10' 43" (LT)
D = 16° 47' 49"
R = 341.11'
T = 95.17'
L = 185.62'
E = 13.03'
EX & PR S.E. = 8.0% (35 MPH DESIGN)
P.C. STA. = 21+05.95
P.T. STA. = 22+91.57
S.E. ATTAINED:
STA 19+17.35 TO STA 21+62.07
STA 22+35.69 TO STA 24+03.69

PAVEMENT MARKIN LEGEND

① PR PREFORMED PLASTIC PAVEMENT MARKING, TYPE B (INLAID), LINE 5" (30' SKIP, 10' DASH WHITE)
② PR URETHANE PAVEMENT MARKING, LINE 5" (SOLID YELLOW)
③ PR URETHANE PAVEMENT MARKING, LINE 5" (SOLID WHITE)
④ PR URETHANE PAVEMENT MARKING, LINE 6" (SOLID WHITE)
⑤ PR PREFORMED PLASTIC PAVEMENT MARKING, TYPE B (INLAID), LINE 6" (6' SKIP, 2' DASH WHITE)
⑥ PR PREFORMED PLASTIC PAVEMENT MARKING, TYPE B (INLAID), LINE 8" (SOLID WHITE)
⑦ PR PREFORMED PLASTIC PAVEMENT MARKING, TYPE B (INLAID), LINE 12" (SOLID WHITE)
⑧ PR PREFORMED PLASTIC PAVEMENT MARKING, TYPE B (INLAID), LINE 12" (SOLID YELLOW)
⑨ PR PREFORMED PLASTIC PAVEMENT MARKING, TYPE B (INLAID), LINE 24" (SOLID WHITE)
⑩ PR PREFORMED PLASTIC PAVEMENT MARKING, TYPE B (INLAID), LETTERS AND SYMBOLS (SOLID WHITE)
▷ PR RAISED REFLECTIVE PAVEMENT MARKERS, ONE-WAY CRYSTAL
▶ PR RAISED REFLECTIVE PAVEMENT MARKERS, ONE-WAY AMBER
◆ PR RAISED REFLECTIVE PAVEMENT MARKERS, TWO-WAY AMBER

FILE NAME = c:\pw_work\PWIDOT\LAUGHLINRL\d0182983\077_Plan_IL57_Ramps.dgn	USER NAME = laughlinrl	DESIGNED -	REVISED -
		DRAWN -	REVISED -
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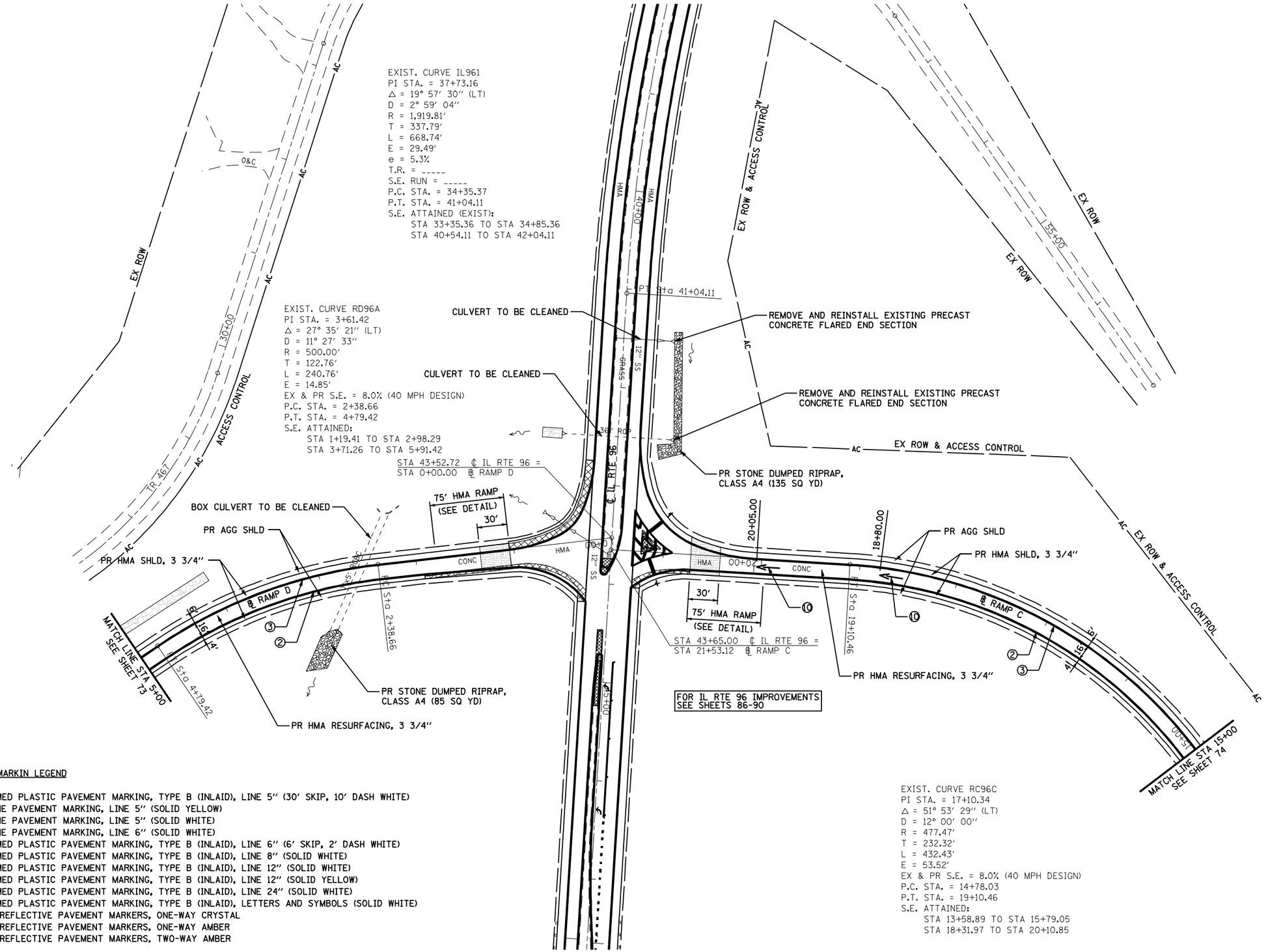
	PLOT DATE = Feb-01-2010 09:36:43AM	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL RTE 57 INTERCHANGE RAMPS A & B PLAN

SCALE: 1"=50' | SHEET NO. 39 OF 52 SHEETS | STA. | TO STA.

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
172	1-(1,2,3,4,5)RS	ADAMS	165	77
		CONTRACT NO. 72A09		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



PAVEMENT MARKIN LEGEND

① PR PREFORMED PLASTIC PAVEMENT MARKING, TYPE B (INLAID), LINE 5″ (30′ SKIP, 10′ DASH WHITE)
② PR URETHANE PAVEMENT MARKING, LINE 5″ (SOLID YELLOW)
③ PR URETHANE PAVEMENT MARKING, LINE 5″ (SOLID WHITE)
④ PR URETHANE PAVEMENT MARKING, LINE 6″ (SOLID WHITE)
⑤ PR PREFORMED PLASTIC PAVEMENT MARKING, TYPE B (INLAID), LINE 6″ (6′ SKIP, 2′ DASH WHITE)
⑥ PR PREFORMED PLASTIC PAVEMENT MARKING, TYPE B (INLAID), LINE 8″ (SOLID WHITE)
⑦ PR PREFORMED PLASTIC PAVEMENT MARKING, TYPE B (INLAID), LINE 12″ (SOLID WHITE)
⑧ PR PREFORMED PLASTIC PAVEMENT MARKING, TYPE B (INLAID), LINE 12″ (SOLID YELLOW)
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⑩ PR PREFORMED PLASTIC PAVEMENT MARKING, TYPE B (INLAID), LETTERS AND SYMBOLS (SOLID WHITE)
▷ PR RAISED REFLECTIVE PAVEMENT MARKERS, ONE-WAY CRYSTAL
▶ PR RAISED REFLECTIVE PAVEMENT MARKERS, ONE-WAY AMBER
◆ PR RAISED REFLECTIVE PAVEMENT MARKERS, TWO-WAY AMBER

FILE NAME = c:\pw_work\PWIDOT\LAUGHLINRL\d0182983\078_Plan_IL96_Ramps.dgn	USER NAME = laughlinrl	DESIGNED -	REVISED -
		DRAWN -	REVISED -
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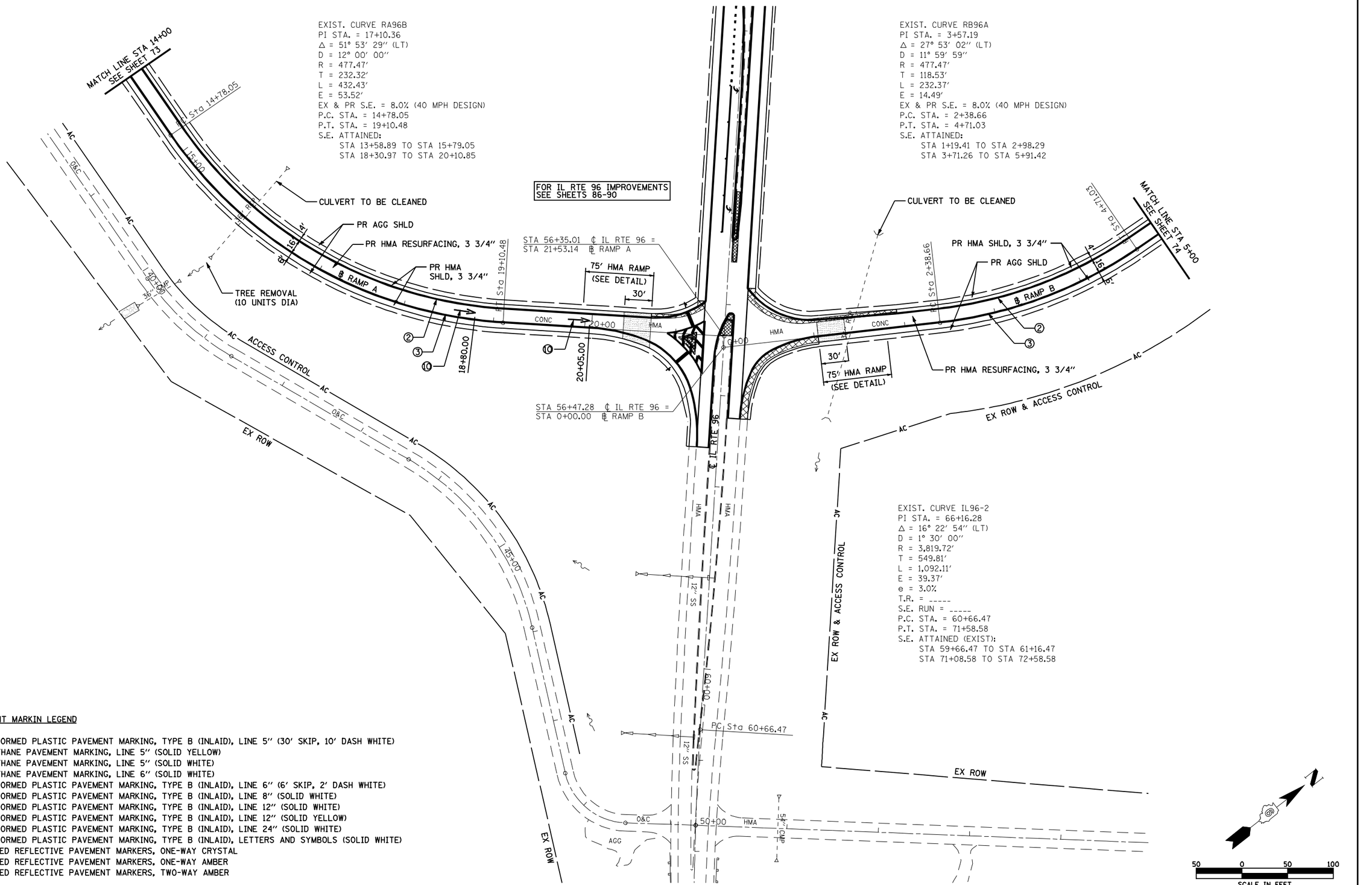
	PLOT DATE = Feb-01-2010 09:36:45AM	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL RTE 96 INTERCHANGE RAMPS C & D PLAN

SCALE: 1″=50′ | SHEET NO. 40 OF 52 SHEETS | STA. | TO STA.

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
172	1-(1,2,3,4,5)RS	ADAMS	165	78
		CONTRACT NO. 72A09		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



EXIST. CURVE IL96-2
PI STA. = 66+16.28
Δ = 16° 22′ 54″ (LT)
D = 1° 30′ 00″
R = 3,819.72′
T = 549.81′
L = 1,092.11′
E = 39.37′
e = 3.0%
T.R. = -----
S.E. RUN = -----
P.C. STA. = 60+66.47
P.T. STA. = 71+58.58
S.E. ATTAINED (EXIST):
STA 59+66.47 TO STA 61+16.47
STA 71+08.58 TO STA 72+58.58

PAVEMENT MARKIN LEGEND

① PR PREFORMED PLASTIC PAVEMENT MARKING, TYPE B (INLAID), LINE 5″ (30′ SKIP, 10′ DASH WHITE)
② PR URETHANE PAVEMENT MARKING, LINE 5″ (SOLID YELLOW)
③ PR URETHANE PAVEMENT MARKING, LINE 5″ (SOLID WHITE)
④ PR URETHANE PAVEMENT MARKING, LINE 6″ (SOLID WHITE)
⑤ PR PREFORMED PLASTIC PAVEMENT MARKING, TYPE B (INLAID), LINE 6″ (6′ SKIP, 2′ DASH WHITE)
⑥ PR PREFORMED PLASTIC PAVEMENT MARKING, TYPE B (INLAID), LINE 8″ (SOLID WHITE)
⑦ PR PREFORMED PLASTIC PAVEMENT MARKING, TYPE B (INLAID), LINE 12″ (SOLID WHITE)
⑧ PR PREFORMED PLASTIC PAVEMENT MARKING, TYPE B (INLAID), LINE 12″ (SOLID YELLOW)
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⑩ PR PREFORMED PLASTIC PAVEMENT MARKING, TYPE B (INLAID), LETTERS AND SYMBOLS (SOLID WHITE)
▷ PR RAISED REFLECTIVE PAVEMENT MARKERS, ONE-WAY CRYSTAL
▶ PR RAISED REFLECTIVE PAVEMENT MARKERS, ONE-WAY AMBER
◆ PR RAISED REFLECTIVE PAVEMENT MARKERS, TWO-WAY AMBER

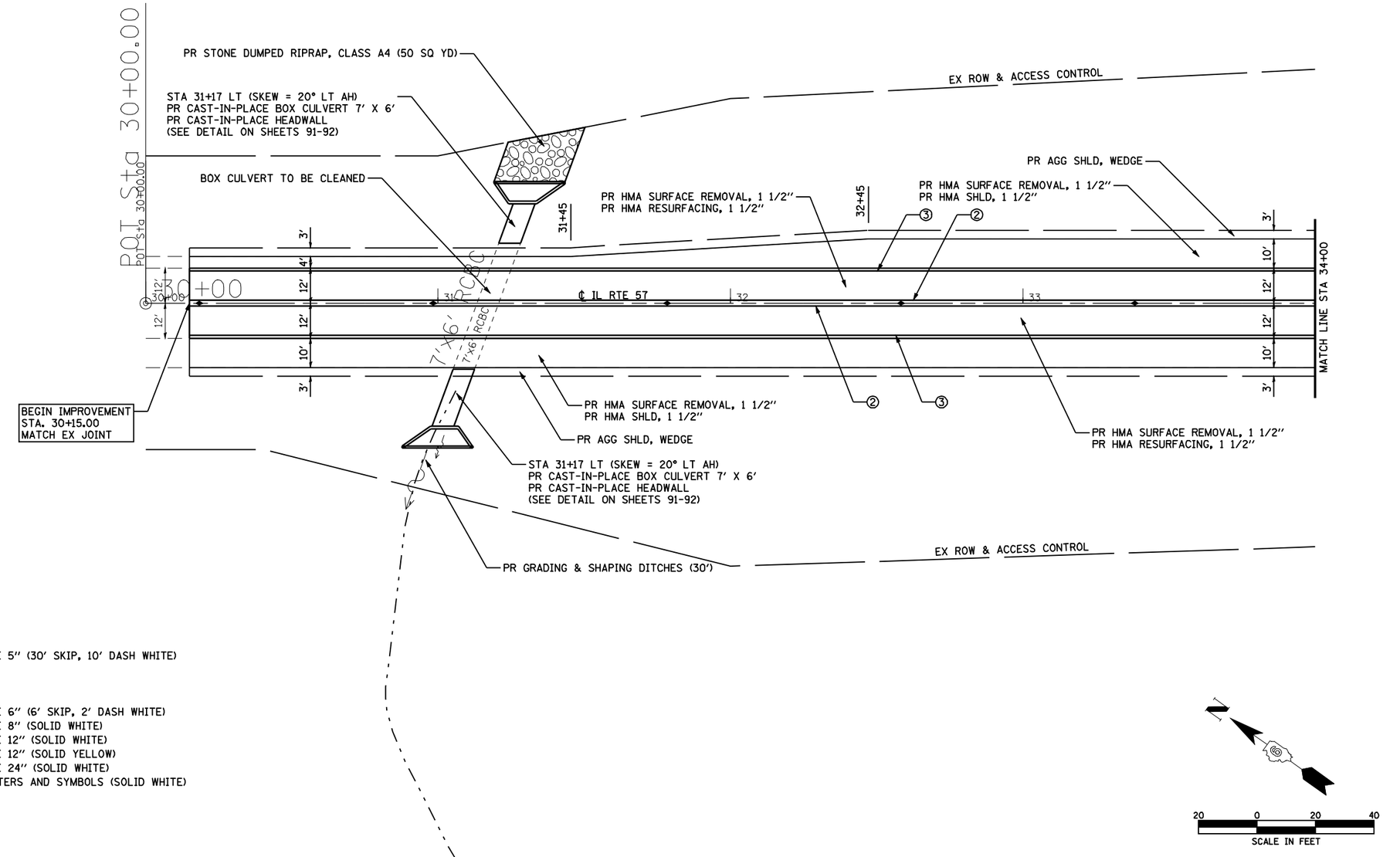
FILE NAME = c:\pw_work\PWIDOT\LAUGHLINRL\d0182983\079_Plan_IL96_Ramps.dgn	USER NAME = laughlinrl	DESIGNED -	REVISED -
		DRAWN -	REVISED -
	PLOT SCALE = 100.0000 ′ / IN.	CHECKED -	REVISED -
	PLOT DATE = Feb-01-2010 09:36:48AM	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL RTE 96 INTERCHANGE RAMPS A & B PLAN

SCALE: 1″=50′ | SHEET NO. 41 OF 52 SHEETS | STA. | TO STA.

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
172	1-(1,2,3,4,5)RS	ADAMS	165	79
		CONTRACT NO. 72A09		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



PAVEMENT MARKIN LEGEND

① PR PREFORMED PLASTIC PAVEMENT MARKING, TYPE B (INLAID), LINE 5" (30' SKIP, 10' DASH WHITE)
② PR URETHANE PAVEMENT MARKING, LINE 5" (SOLID YELLOW)
③ PR URETHANE PAVEMENT MARKING, LINE 5" (SOLID WHITE)
④ PR URETHANE PAVEMENT MARKING, LINE 6" (SOLID WHITE)
⑤ PR PREFORMED PLASTIC PAVEMENT MARKING, TYPE B (INLAID), LINE 6" (6' SKIP, 2' DASH WHITE)
⑥ PR PREFORMED PLASTIC PAVEMENT MARKING, TYPE B (INLAID), LINE 8" (SOLID WHITE)
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⑧ PR PREFORMED PLASTIC PAVEMENT MARKING, TYPE B (INLAID), LINE 12" (SOLID YELLOW)
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▷ PR RAISED REFLECTIVE PAVEMENT MARKERS, ONE-WAY CRYSTAL
▶ PR RAISED REFLECTIVE PAVEMENT MARKERS, ONE-WAY AMBER
◆ PR RAISED REFLECTIVE PAVEMENT MARKERS, TWO-WAY AMBER

20 0 20 40
SCALE IN FEET

FILE NAME = c:\pw_work\PWIDOT\LAUGHLINRL\d0182983\080_Plan_IL_57.dgn	USER NAME = laughlinrl	DESIGNED -	REVISED -
		DRAWN -	REVISED -
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	PLOT DATE = Feb-01-2010 09:36:51AM	DATE -	REVISED -

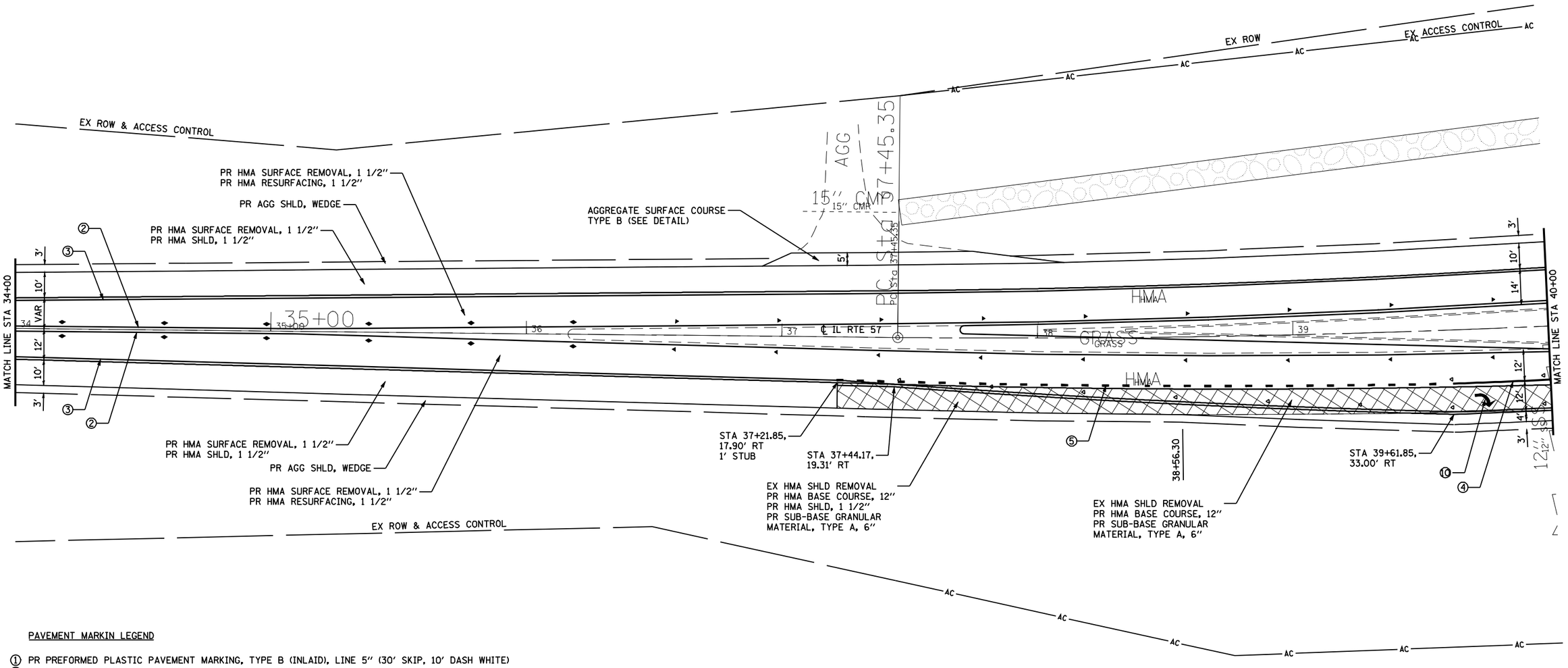
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL RTE 57 PLAN

SCALE: 1"=20' | SHEET NO. 42 OF 52 SHEETS | STA. 30+00 | TO STA. 34+00

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
172	1-(1,2,3,4,5)RS	ADAMS	165	80
		CONTRACT NO. 72A09		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

EXIST. CURVE C57
PI STA. = 42+75.65
Δ = 13° 11′ 56″ (LT)
D = 1° 15′ 00″
R = 4,583.66′
T = 530.30′
L = 1,055.91′
E = 30.57′
EX & PR S.E. = 3.5% (60 MPH DESIGN)
P.C. STA. = 37+45.35
P.T. STA. = 48+01.26
S.E. ATTAINED (MATCH EXIST):
STA 36+28.68 TO STA 38+03.68
STA 47+42.93 TO STA 49+17.93



PAVEMENT MARKIN LEGEND

① PR PREFORMED PLASTIC PAVEMENT MARKING, TYPE B (INLAID), LINE 5″ (30′ SKIP, 10′ DASH WHITE)
② PR URETHANE PAVEMENT MARKING, LINE 5″ (SOLID YELLOW)
③ PR URETHANE PAVEMENT MARKING, LINE 5″ (SOLID WHITE)
④ PR URETHANE PAVEMENT MARKING, LINE 6″ (SOLID WHITE)
⑤ PR PREFORMED PLASTIC PAVEMENT MARKING, TYPE B (INLAID), LINE 6″ (6′ SKIP, 2′ DASH WHITE)
⑥ PR PREFORMED PLASTIC PAVEMENT MARKING, TYPE B (INLAID), LINE 8″ (SOLID WHITE)
⑦ PR PREFORMED PLASTIC PAVEMENT MARKING, TYPE B (INLAID), LINE 12″ (SOLID WHITE)
⑧ PR PREFORMED PLASTIC PAVEMENT MARKING, TYPE B (INLAID), LINE 12″ (SOLID YELLOW)
⑨ PR PREFORMED PLASTIC PAVEMENT MARKING, TYPE B (INLAID), LINE 24″ (SOLID WHITE)
⑩ PR PREFORMED PLASTIC PAVEMENT MARKING, TYPE B (INLAID), LETTERS AND SYMBOLS (SOLID WHITE)
▷ PR RAISED REFLECTIVE PAVEMENT MARKERS, ONE-WAY CRYSTAL
▶ PR RAISED REFLECTIVE PAVEMENT MARKERS, ONE-WAY AMBER
◆ PR RAISED REFLECTIVE PAVEMENT MARKERS, TWO-WAY AMBER

FILE NAME = c:\pw_work\PWIDOT\LAUGHLINRL\d0182983\081_Plan_IL_57.dgn	USER NAME = laughlinrl	DESIGNED -	REVISED -
		DRAWN -	REVISED -
	PLOT SCALE = 40.0000 ′ / IN.	CHECKED -	REVISED -
	PLOT DATE = Feb-01-2010 09:36:53AM	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL RTE 57 PLAN

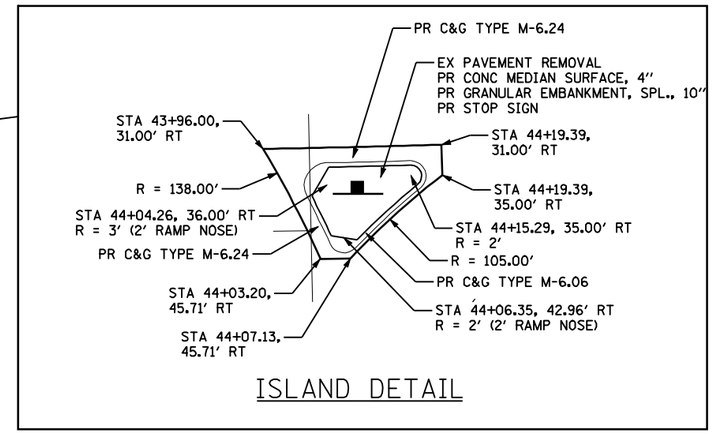
SCALE: 1″=20′ | SHEET NO. 43 OF 52 SHEETS | STA. 34+00 | TO STA. 40+00

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
172	1-(1,2,3,4,5)RS	ADAMS	165	81
		CONTRACT NO. 72A09		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

EXIST. CURVE C57
PI STA. = 42+75.65
△ = 13° 11′ 56″ (LT)
D = 1° 15′ 00″
R = 4,583.66′
T = 530.30′
L = 1,055.91′
E = 30.57′
EX & PR S.E. = 3.5% (60 MPH DESIGN)
P.C. STA. = 37+45.35
P.T. STA. = 48+01.26
S.E. ATTAINED (MATCH EXIST):
STA 36+28.68 TO STA 38+03.68
STA 47+42.93 TO STA 49+17.93

EX ROW

AC — AC — AC — AC — AC — AC — EX ACCESS CONTROL — AC — AC — AC



ISLAND DETAIL

EX MEDIAN (TYPE SM-6.24) REMOVAL
PR SOLID CONCRETE MEDIAN,
TYPE SM-6.24 (6′ RAMPED NOSE)

EX MEDIAN (TYPE SM-6.24) REMOVAL
PR PCC BASE COURSE, 8″
PR SUB-BASE GRANULAR MATERIAL,
TYPE A, 6″

EX CURB & GUTTER REMOVAL
EARTH EXCAVATION
PR SOLID CONCRETE MEDIAN,
TYPE SM-6.24 (6′ RAMPED NOSE)

PR HMA SURFACE REMOVAL, 1 1/2″
PR HMA RESURFACING, 1 1/2″

PR AGG SHLD, WEDGE

PR HMA SURFACE REMOVAL, 1 1/2″
PR HMA SHLD, 1 1/2″

STA 43+10.04 (IL 57) =
STA 0+00 (℄ RAMP D)

43+99.60

STA 44+02.05 (IL 57) =
STA 26+41.90 (℄ RAMP C)

MATCH LINE STA 40+00

40+00

41

42

43

44

45+00

MATCH LINE STA 46+00

POT Sta 0+00.00
℄ IL RTE 57

GRASS

STA 43+18.50,
4.00′ RT
R = 3′

STA 44+02.60,
6.00′ RT
R = 2′

STA 42+01.85,
33.00′ RT

STA 42+65.09,
45.15′ RT

STA 42+98.24,
78.98′ RT

STA 1+24.64,
1.00′ RT

STA 1+43.59,
0.00′ RT
1′ STUB

STA 45+19.91,
24.00′ RT

STA 44+38.98,
51.79′ RT

STA 25+35.19,
1.00′ RT

STA 25+22.58,
0.00′ RT
1′ STUB

PR STOP SIGN

SEE ISLAND DETAIL
(THIS SHEET)

PR HMA BASE COURSE, 12″
PR HMA SHLD, 1 1/2″
PR SUB-BASE GRANULAR
MATERIAL, TYPE A, 6″

EX HMA SHLD REMOVAL
PR HMA BASE COURSE, 12″
PR SUB-BASE GRANULAR
MATERIAL, TYPE A, 6″

PR AGG SHLD, WEDGE

PR HMA SURF REM., 1 1/2″
PR HMA SHLD, 1 1/2″

STA 45+39.37,
23.00′ RT
1′ STUB

EX HMA SHLD REMOVAL
PR HMA BASE COURSE, 12″
PR SUB-BASE GRANULAR
MATERIAL, TYPE A, 6″

PR HMA SURFACE REMOVAL, 1 1/2″
PR HMA RESURFACING, 1 1/2″

PR HMA BASE COURSE, 12″
PR HMA SHLD, 1 1/2″
PR SUB-BASE GRANULAR
MATERIAL, TYPE A, 6″

3 CENTERED CURVE
180′-60′-180′
8′ OS FROM IL 57
8′ OS FROM RAMP D

2 CENTERED CURVE
80′-200′
17′ OS FROM IL 57

ELEVATIONS ALONG THE RADII WHERE THE RAMPS ARE TO BE WIDENED SHALL BE DETERMINED IN THE FIELD BY THE ENGINEER.

ELEVATIONS ALONG THE RADII WHERE THE RAMPS ARE TO BE WIDENED SHALL BE DETERMINED IN THE FIELD BY THE ENGINEER.

AC — AC — AC — EX ROW — AC — AC — AC

PAVEMENT MARKIN LEGEND

① PR PREFORMED PLASTIC PAVEMENT MARKING, TYPE B (INLAID), LINE 5″ (30′ SKIP, 10′ DASH WHITE)
② PR URETHANE PAVEMENT MARKING, LINE 5″ (SOLID YELLOW)
③ PR URETHANE PAVEMENT MARKING, LINE 5″ (SOLID WHITE)
④ PR URETHANE PAVEMENT MARKING, LINE 6″ (SOLID WHITE)
⑤ PR PREFORMED PLASTIC PAVEMENT MARKING, TYPE B (INLAID), LINE 6″ (6′ SKIP, 2′ DASH WHITE)
⑥ PR PREFORMED PLASTIC PAVEMENT MARKING, TYPE B (INLAID), LINE 8″ (SOLID WHITE)
⑦ PR PREFORMED PLASTIC PAVEMENT MARKING, TYPE B (INLAID), LINE 12″ (SOLID WHITE)
⑧ PR PREFORMED PLASTIC PAVEMENT MARKING, TYPE B (INLAID), LINE 12″ (SOLID YELLOW)
⑨ PR PREFORMED PLASTIC PAVEMENT MARKING, TYPE B (INLAID), LINE 24″ (SOLID WHITE)
⑩ PR PREFORMED PLASTIC PAVEMENT MARKING, TYPE B (INLAID), LETTERS AND SYMBOLS (SOLID WHITE)
▷ PR RAISED REFLECTIVE PAVEMENT MARKERS, ONE-WAY CRYSTAL
▶ PR RAISED REFLECTIVE PAVEMENT MARKERS, ONE-WAY AMBER
◆ PR RAISED REFLECTIVE PAVEMENT MARKERS, TWO-WAY AMBER

Ⓐ EX MEDIAN SURFACE REMOVAL
EX CURB & GUTTER REMOVAL
EX EARTH EXCAVATION
PR PCC BASE COURSE, 8″
PR SUB-BASE GRANULAR MATERIAL, TYPE A, 6″

Ⓑ PR PCC SURFACE REMOVAL, 1 1/2″
PR HMA RESURFACING, 1 1/2″

30′ BUTT JOINT (SEE DETAIL)

5′ 6′ 16′ 4′ 5′

5′ 4′ 15′ 6′ 5′

MEDIAN INLET (604101)
TO BE RECONSTRUCTED
(SEE DETAIL)

FOR RAMP D IMPROVEMENTS
SEE SHEET 76

FOR RAMP C IMPROVEMENTS
SEE SHEET 76

20 0 20 40
SCALE IN FEET

FILE NAME = c:\pw_work\PWIDOT\LAUGHLINRL\d0182983\082_Plan_IL_57.dgn	USER NAME = laughlinrl	DESIGNED -	REVISED -
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	PLOT DATE = Feb-01-2010 09:36:56AM	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

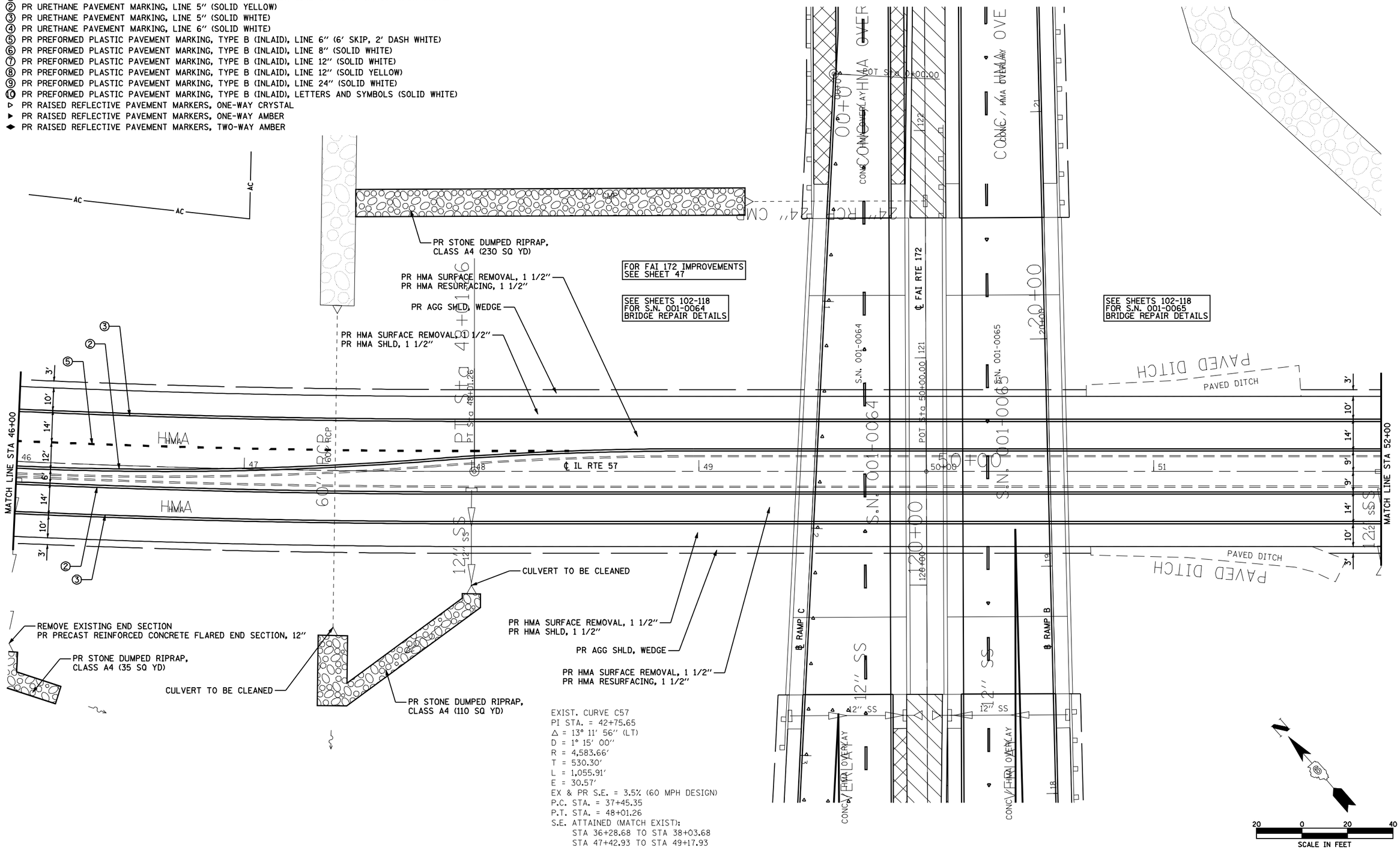
IL RTE 57 PLAN

SCALE: 1″=20′ | SHEET NO. 44 OF 52 SHEETS | STA. 40+00 | TO STA. 46+00

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
172	1-(1,2,3,4,5)RS	ADAMS	165	82
		CONTRACT NO. 72A09		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

PAVEMENT MARKIN LEGEND

① PR PREFORMED PLASTIC PAVEMENT MARKING, TYPE B (INLAID), LINE 5" (30' SKIP, 10' DASH WHITE)
② PR URETHANE PAVEMENT MARKING, LINE 5" (SOLID YELLOW)
③ PR URETHANE PAVEMENT MARKING, LINE 5" (SOLID WHITE)
④ PR URETHANE PAVEMENT MARKING, LINE 6" (SOLID WHITE)
⑤ PR PREFORMED PLASTIC PAVEMENT MARKING, TYPE B (INLAID), LINE 6" (6' SKIP, 2' DASH WHITE)
⑥ PR PREFORMED PLASTIC PAVEMENT MARKING, TYPE B (INLAID), LINE 8" (SOLID WHITE)
⑦ PR PREFORMED PLASTIC PAVEMENT MARKING, TYPE B (INLAID), LINE 12" (SOLID WHITE)
⑧ PR PREFORMED PLASTIC PAVEMENT MARKING, TYPE B (INLAID), LINE 12" (SOLID YELLOW)
⑨ PR PREFORMED PLASTIC PAVEMENT MARKING, TYPE B (INLAID), LINE 24" (SOLID WHITE)
⑩ PR PREFORMED PLASTIC PAVEMENT MARKING, TYPE B (INLAID), LETTERS AND SYMBOLS (SOLID WHITE)
▷ PR RAISED REFLECTIVE PAVEMENT MARKERS, ONE-WAY CRYSTAL
▶ PR RAISED REFLECTIVE PAVEMENT MARKERS, ONE-WAY AMBER
◆ PR RAISED REFLECTIVE PAVEMENT MARKERS, TWO-WAY AMBER



EXIST. CURVE C57
PI STA. = 42+75.65
Δ = 13° 11' 56" (LT)
D = 1° 15' 00"
R = 4,583.66'
T = 530.30'
L = 1,055.91'
E = 30.57'
EX & PR S.E. = 3.5% (60 MPH DESIGN)
P.C. STA. = 37+45.35
P.T. STA. = 48+01.26
S.E. ATTAINED (MATCH EXIST):
STA 36+28.68 TO STA 38+03.68
STA 47+42.93 TO STA 49+17.93

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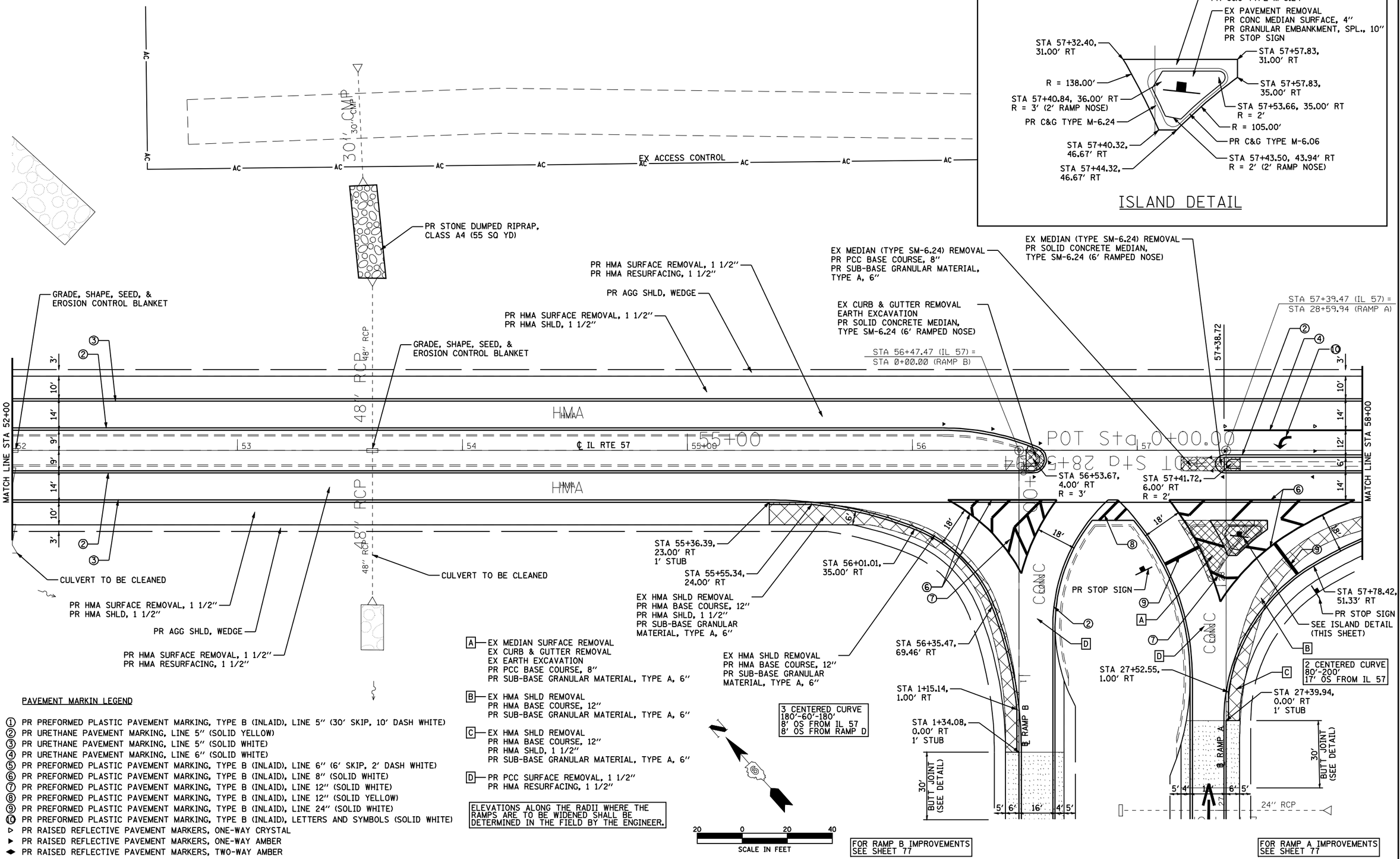
	PLOT DATE = Feb-01-2010 09:36:59AM	DATE -	REVISED -

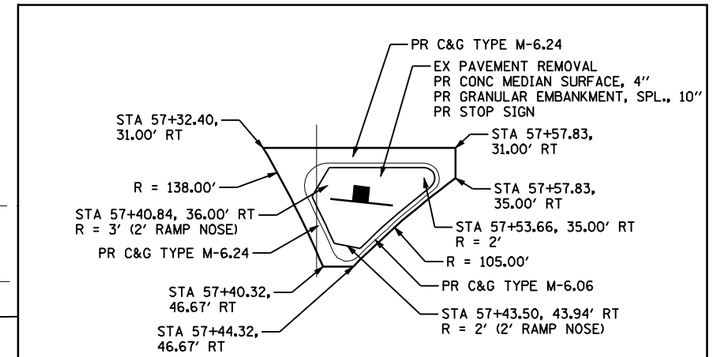
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL RTE 57 PLAN

SCALE: 1"=20' | SHEET NO. 45 OF 52 SHEETS | STA. 46+00 | TO STA. 52+00

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
172	1-(1,2,3,4,5)RS	ADAMS	165	83
		CONTRACT NO. 72A09		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		





ISLAND DETAIL

[A] EX MEDIAN SURFACE REMOVAL
EX CURB & GUTTER REMOVAL
EX EARTH EXCAVATION
PR PCC BASE COURSE, 8"
PR SUB-BASE GRANULAR MATERIAL, TYPE A, 6"

[B] EX HMA SHLD REMOVAL
PR HMA BASE COURSE, 12"
PR SUB-BASE GRANULAR MATERIAL, TYPE A, 6"

[C] EX HMA SHLD REMOVAL
PR HMA BASE COURSE, 12"
PR HMA SHLD, 1 1/2"
PR SUB-BASE GRANULAR MATERIAL, TYPE A, 6"

[D] PR PCC SURFACE REMOVAL, 1 1/2"
PR HMA RESURFACING, 1 1/2"

ELEVATIONS ALONG THE RADII WHERE THE RAMPS ARE TO BE WIDENED SHALL BE DETERMINED IN THE FIELD BY THE ENGINEER.

EX HMA SHLD REMOVAL
PR HMA BASE COURSE, 12"
PR HMA SHLD, 1 1/2"
PR SUB-BASE GRANULAR MATERIAL, TYPE A, 6"

EX HMA SHLD REMOVAL
PR HMA BASE COURSE, 12"
PR SUB-BASE GRANULAR MATERIAL, TYPE A, 6"

PAVEMENT MARKIN LEGEND

① PR PREFORMED PLASTIC PAVEMENT MARKING, TYPE B (INLAID), LINE 5" (30' SKIP, 10' DASH WHITE)
② PR URETHANE PAVEMENT MARKING, LINE 5" (SOLID YELLOW)
③ PR URETHANE PAVEMENT MARKING, LINE 5" (SOLID WHITE)
④ PR URETHANE PAVEMENT MARKING, LINE 6" (SOLID WHITE)
⑤ PR PREFORMED PLASTIC PAVEMENT MARKING, TYPE B (INLAID), LINE 6" (6' SKIP, 2' DASH WHITE)
⑥ PR PREFORMED PLASTIC PAVEMENT MARKING, TYPE B (INLAID), LINE 8" (SOLID WHITE)
⑦ PR PREFORMED PLASTIC PAVEMENT MARKING, TYPE B (INLAID), LINE 12" (SOLID WHITE)
⑧ PR PREFORMED PLASTIC PAVEMENT MARKING, TYPE B (INLAID), LINE 12" (SOLID YELLOW)
⑨ PR PREFORMED PLASTIC PAVEMENT MARKING, TYPE B (INLAID), LINE 24" (SOLID WHITE)
⑩ PR PREFORMED PLASTIC PAVEMENT MARKING, TYPE B (INLAID), LETTERS AND SYMBOLS (SOLID WHITE)
▷ PR RAISED REFLECTIVE PAVEMENT MARKERS, ONE-WAY CRYSTAL
▶ PR RAISED REFLECTIVE PAVEMENT MARKERS, ONE-WAY AMBER
◆ PR RAISED REFLECTIVE PAVEMENT MARKERS, TWO-WAY AMBER

FOR RAMP B IMPROVEMENTS SEE SHEET 77

FOR RAMP A IMPROVEMENTS SEE SHEET 77

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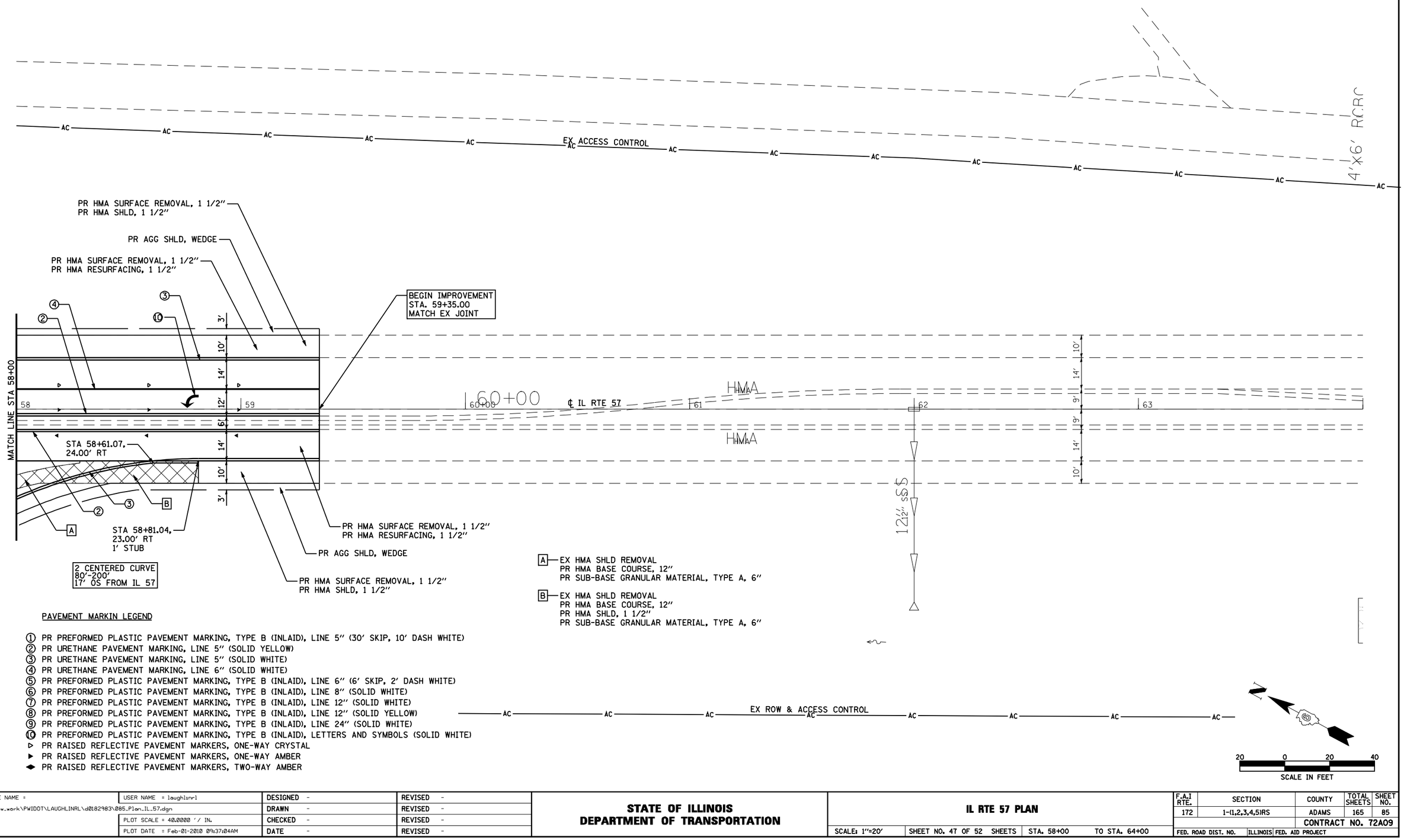
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL RTE 57 PLAN

SCALE: 1"=20' | SHEET NO. 46 OF 52 SHEETS | STA. 52+00 | TO STA. 58+00

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
172	1-(1,2,3,4,5)RS	ADAMS	165	84
		CONTRACT NO. 72A09		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



A — EX HMA SHLD REMOVAL
PR HMA BASE COURSE, 12"
PR SUB-BASE GRANULAR MATERIAL, TYPE A, 6"

B — EX HMA SHLD REMOVAL
PR HMA BASE COURSE, 12"
PR HMA SHLD, 1 1/2"
PR SUB-BASE GRANULAR MATERIAL, TYPE A, 6"

PAVEMENT MARKIN LEGEND

① PR PREFORMED PLASTIC PAVEMENT MARKING, TYPE B (INLAID), LINE 5" (30' SKIP, 10' DASH WHITE)
② PR URETHANE PAVEMENT MARKING, LINE 5" (SOLID YELLOW)
③ PR URETHANE PAVEMENT MARKING, LINE 5" (SOLID WHITE)
④ PR URETHANE PAVEMENT MARKING, LINE 6" (SOLID WHITE)
⑤ PR PREFORMED PLASTIC PAVEMENT MARKING, TYPE B (INLAID), LINE 6" (6' SKIP, 2' DASH WHITE)
⑥ PR PREFORMED PLASTIC PAVEMENT MARKING, TYPE B (INLAID), LINE 8" (SOLID WHITE)
⑦ PR PREFORMED PLASTIC PAVEMENT MARKING, TYPE B (INLAID), LINE 12" (SOLID WHITE)
⑧ PR PREFORMED PLASTIC PAVEMENT MARKING, TYPE B (INLAID), LINE 12" (SOLID YELLOW)
⑨ PR PREFORMED PLASTIC PAVEMENT MARKING, TYPE B (INLAID), LINE 24" (SOLID WHITE)
⑩ PR PREFORMED PLASTIC PAVEMENT MARKING, TYPE B (INLAID), LETTERS AND SYMBOLS (SOLID WHITE)
▷ PR RAISED REFLECTIVE PAVEMENT MARKERS, ONE-WAY CRYSTAL
▶ PR RAISED REFLECTIVE PAVEMENT MARKERS, ONE-WAY AMBER
◆ PR RAISED REFLECTIVE PAVEMENT MARKERS, TWO-WAY AMBER

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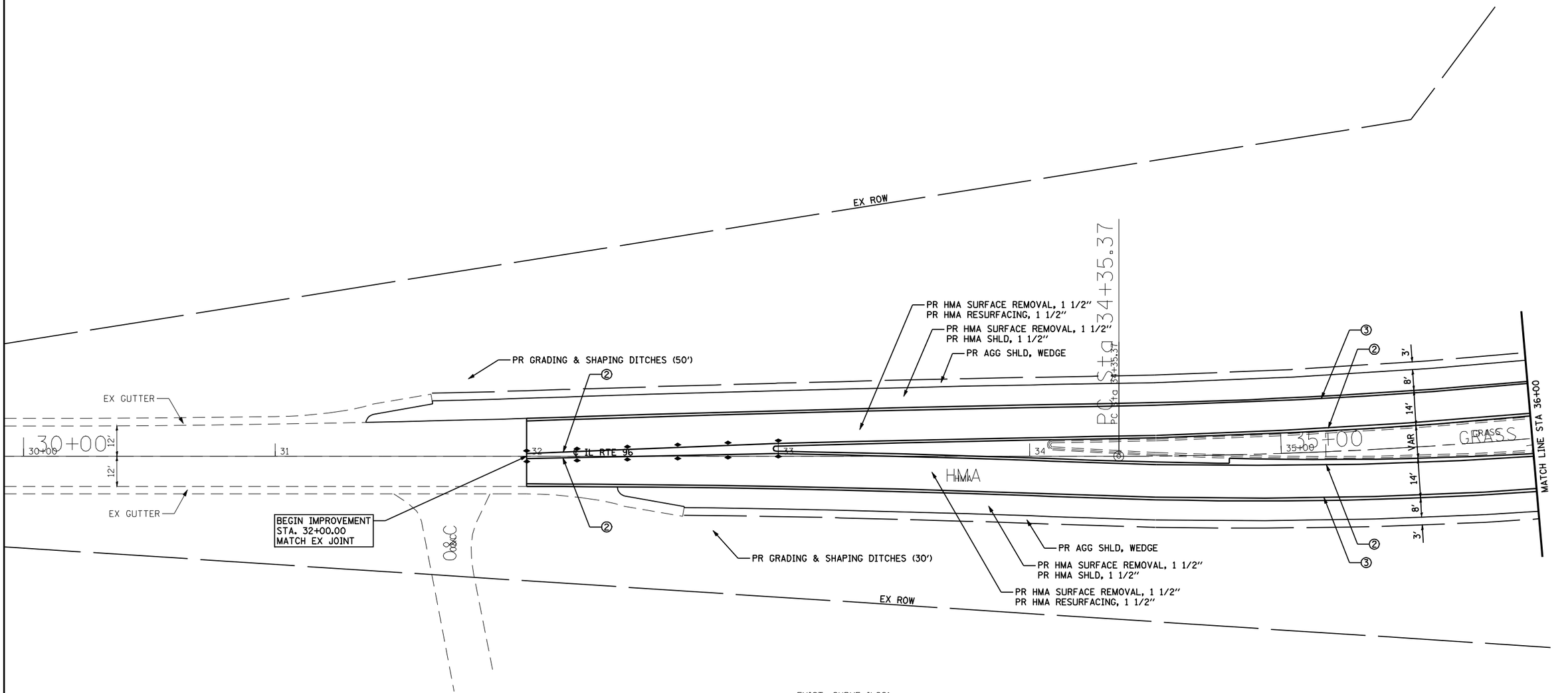
	PLOT DATE = Feb-01-2010 09:37:04AM	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL RTE 57 PLAN

SCALE: 1"=20' | SHEET NO. 47 OF 52 SHEETS | STA. 58+00 | TO STA. 64+00

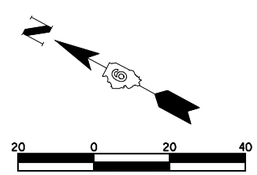
F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
172	1-(1,2,3,4,5)RS	ADAMS	165	85
		CONTRACT NO. 72A09		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



PAVEMENT MARKIN LEGEND

① PR PREFORMED PLASTIC PAVEMENT MARKING, TYPE B (INLAID), LINE 5" (30' SKIP, 10' DASH WHITE)
② PR URETHANE PAVEMENT MARKING, LINE 5" (SOLID YELLOW)
③ PR URETHANE PAVEMENT MARKING, LINE 5" (SOLID WHITE)
④ PR URETHANE PAVEMENT MARKING, LINE 6" (SOLID WHITE)
⑤ PR PREFORMED PLASTIC PAVEMENT MARKING, TYPE B (INLAID), LINE 6" (6' SKIP, 2' DASH WHITE)
⑥ PR PREFORMED PLASTIC PAVEMENT MARKING, TYPE B (INLAID), LINE 8" (SOLID WHITE)
⑦ PR PREFORMED PLASTIC PAVEMENT MARKING, TYPE B (INLAID), LINE 12" (SOLID WHITE)
⑧ PR PREFORMED PLASTIC PAVEMENT MARKING, TYPE B (INLAID), LINE 12" (SOLID YELLOW)
⑨ PR PREFORMED PLASTIC PAVEMENT MARKING, TYPE B (INLAID), LINE 24" (SOLID WHITE)
⑩ PR PREFORMED PLASTIC PAVEMENT MARKING, TYPE B (INLAID), LETTERS AND SYMBOLS (SOLID WHITE)
▷ PR RAISED REFLECTIVE PAVEMENT MARKERS, ONE-WAY CRYSTAL
▶ PR RAISED REFLECTIVE PAVEMENT MARKERS, ONE-WAY AMBER
◆ PR RAISED REFLECTIVE PAVEMENT MARKERS, TWO-WAY AMBER

EXIST. CURVE IL961
PI STA. = 37+73.16
Δ = 19° 57' 30" (LT)
D = 2° 59' 04"
R = 1,919.81'
T = 337.79'
L = 668.74'
E = 29.49'
EX & PR S.E. = 5.3% (55 MPH DESIGN)
T.R. = 44.73' (HIGH SIDE ONLY)
S.E. RUN = 158.05' (HIGH SIDE ONLY)
P.C. STA. = 34+35.37
P.T. STA. = 41+04.11
S.E. ATTAINED (MATCH EXIST - LOW SIDE ONLY):
STA 33+35.36 TO STA 34+85.36
STA 40+54.11 TO STA 42+04.11
S.E. ATTAINED (HIGH SIDE ONLY):
STA 32+82.58 TO STA 34+85.36
STA 40+54.11 TO STA 42+56.89



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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL RTE 96 PLAN

SCALE: 1"=20' | SHEET NO. 48 OF 52 SHEETS | STA. 30+00 | TO STA. 36+00

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
172	1-(1,2,3,4,5)RS	ADAMS	165	86
		CONTRACT NO. 72A09		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

EXIST. CURVE SD-1
PI STA. = 51+60.00
Δ = 39° 30′ 00″ (RT)
D = 23° 00′ 01″
R = 249.11′
T = 89.44′
L = 171.74′
E = 15.57′
e = -----
T.R. = -----
S.E. RUN = -----
P.C. STA. = 50+70.56
P.T. STA. = 52+42.30

EXIST. CURVE IL961
PI STA. = 37+73.16
Δ = 19° 57′ 30″ (LT)
D = 2° 59′ 04″
R = 1,919.81′
T = 337.79′
L = 668.74′
E = 29.49′
EX & PR S.E. = 5.3% (55 MPH DESIGN)
T.R. = 44.73′ (HIGH SIDE ONLY)
S.E. RUN = 158.05′ (HIGH SIDE ONLY)
P.C. STA. = 34+35.37
P.T. STA. = 41+04.11
S.E. ATTAINED (MATCH EXIST - LOW SIDE ONLY):
STA 33+35.36 TO STA 34+85.36
STA 40+54.11 TO STA 42+04.11
S.E. ATTAINED (HIGH SIDE ONLY):
STA 32+82.58 TO STA 34+85.36
STA 40+54.11 TO STA 42+56.89

CULVERT TO BE CLEANED
PR STONE DUMPED RIPRAP, CLASS A4 (50 SQ YD)
PR INCIDENTAL HMA SURFACING
PR HMA SURFACE REMOVAL, 1 1/2″
PR HMA RESURFACING, 1 1/2″
PR HMA SURFACE REMOVAL, 1 1/2″
PR HMA SHLD, 1 1/2″
PR AGG SHLD, WEDGE
PR STONE DUMPED RIPRAP, CLASS A4 (135 SQ YD)
REMOVE AND REINSTALL END SECTION
PR HMA SURFACE REMOVAL, 1 1/2″
PR HMA SHLD, 1 1/2″
PR AGG SHLD, WEDGE
PR HMA SURFACE REMOVAL, 1 1/2″
PR HMA RESURFACING, 1 1/2″
CULVERT TO BE CLEANED
EX ROW
AC
EX ROW & ACCESS CONTROL
℄ SERVICE DRIVE
℄ IL RTE 96
℄ TR 467
PC Sta 50+70.56
PT Sta 41+04.11
PT Sta 37+05.36
36″ CMP
5′x5′ RCBC
12″ SS
HMA
GRASS
MATCH LINE STA 36+00
MATCH LINE STA 42+00
STA 37+00.00 ℄ IL RTE 96 =
STA 50+00.00 ℄ SERVICE DRIVE =
STA 37+78.37 ℄ TR 467

EXIST. CURVE TR467-5
PI STA. = 35+63.36
Δ = 87° 45′ 00″ (RT)
D = 23° 00′ 01″
R = 249.11′
T = 239.51′
L = 381.52′
E = 96.47′
e = -----
T.R. = -----
S.E. RUN = -----
P.C. STA. = 33+23.84
P.T. STA. = 37+05.36

PAVEMENT MARKIN LEGEND

① PR PREFORMED PLASTIC PAVEMENT MARKING, TYPE B (INLAID), LINE 5″ (30′ SKIP, 10′ DASH WHITE)
② PR URETHANE PAVEMENT MARKING, LINE 5″ (SOLID YELLOW)
③ PR URETHANE PAVEMENT MARKING, LINE 5″ (SOLID WHITE)
④ PR URETHANE PAVEMENT MARKING, LINE 6″ (SOLID WHITE)
⑤ PR PREFORMED PLASTIC PAVEMENT MARKING, TYPE B (INLAID), LINE 6″ (6′ SKIP, 2′ DASH WHITE)
⑥ PR PREFORMED PLASTIC PAVEMENT MARKING, TYPE B (INLAID), LINE 8″ (SOLID WHITE)
⑦ PR PREFORMED PLASTIC PAVEMENT MARKING, TYPE B (INLAID), LINE 12″ (SOLID WHITE)
⑧ PR PREFORMED PLASTIC PAVEMENT MARKING, TYPE B (INLAID), LINE 12″ (SOLID YELLOW)
⑨ PR PREFORMED PLASTIC PAVEMENT MARKING, TYPE B (INLAID), LINE 24″ (SOLID WHITE)
⑩ PR PREFORMED PLASTIC PAVEMENT MARKING, TYPE B (INLAID), LETTERS AND SYMBOLS (SOLID WHITE)
▷ PR RAISED REFLECTIVE PAVEMENT MARKERS, ONE-WAY CRYSTAL
▶ PR RAISED REFLECTIVE PAVEMENT MARKERS, ONE-WAY AMBER
◆ PR RAISED REFLECTIVE PAVEMENT MARKERS, TWO-WAY AMBER

N

20 0 20 40
SCALE IN FEET

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	PLOT DATE = Feb-01-2010 09:37:09AM	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL RTE 96 PLAN

SCALE: 1″=20′ | SHEET NO. 49 OF 52 SHEETS | STA. 36+00 | TO STA. 42+00

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
172	1-(1,2,3,4,5)RS	ADAMS	165	87
		CONTRACT NO. 72A09		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

FOR RAMP C IMPROVEMENTS SEE SHEET 78

A — EX MEDIAN SURFACE REMOVAL
EX CURB & GUTTER REMOVAL
PR PCC BASE COURSE, 8"
PR SUB-BASE GRANULAR MATERIAL, TYPE A, 6"

B — EX MEDIAN SURFACE REMOVAL
EX CURB & GUTTER REMOVAL
PR SOLID CONCRETE MEDIAN,
TYPE SM-6.06 (6' RAMPED NOSE)

C — EX MEDIAN SURFACE REMOVAL
EX CURB & GUTTER REMOVAL
PR COMB. CURB & GUTTER, TYPE M-6.06
PR CONCRETE MEDIAN SURFACE, 4"
PR GRANULAR EMBANKMENT, SPL., 10"

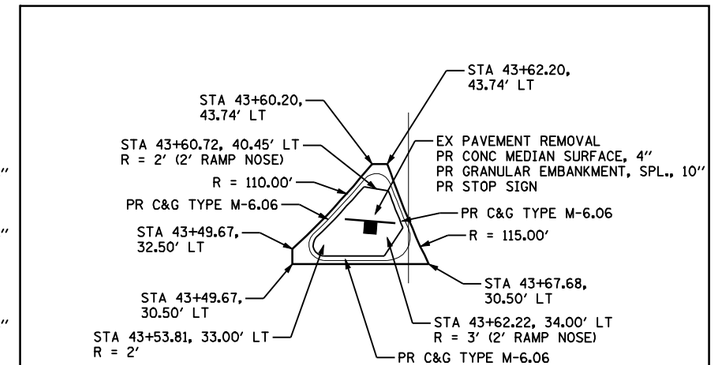
D — EX PAVEMENT REMOVAL
PR SOLID CONCRETE MEDIAN,
TYPE SM-6.06 (6' RAMPED NOSE)

E — EX MEDIAN SURFACE REMOVAL
EX CURB & GUTTER REMOVAL
EX EARTH EXCAVATION
PR COMB. CURB & GUTTER, TYPE M-6.06
PR CONCRETE MEDIAN SURFACE, 4"
PR GRANULAR EMBANKMENT, SPL., 10"

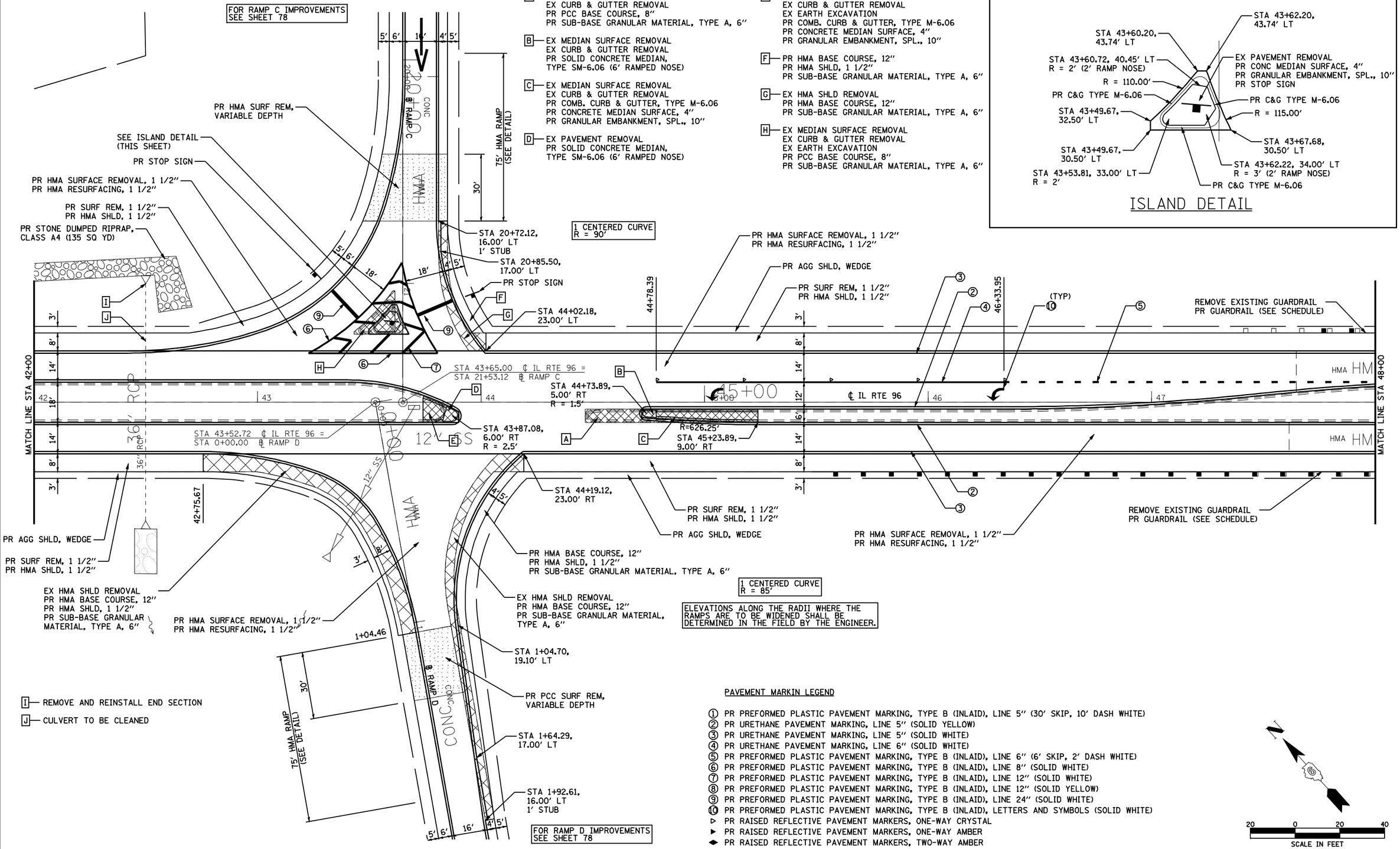
F — PR HMA BASE COURSE, 12"
PR HMA SHLD, 1 1/2"
PR SUB-BASE GRANULAR MATERIAL, TYPE A, 6"

G — EX HMA SHLD REMOVAL
PR HMA BASE COURSE, 12"
PR SUB-BASE GRANULAR MATERIAL, TYPE A, 6"

H — EX MEDIAN SURFACE REMOVAL
EX CURB & GUTTER REMOVAL
EX EARTH EXCAVATION
PR PCC BASE COURSE, 8"
PR SUB-BASE GRANULAR MATERIAL, TYPE A, 6"



ISLAND DETAIL



I — REMOVE AND REINSTALL END SECTION

J — CULVERT TO BE CLEANED

PAVEMENT MARKIN LEGEND

① PR PREFORMED PLASTIC PAVEMENT MARKING, TYPE B (INLAID), LINE 5" (30' SKIP, 10' DASH WHITE)
② PR URETHANE PAVEMENT MARKING, LINE 5" (SOLID YELLOW)
③ PR URETHANE PAVEMENT MARKING, LINE 5" (SOLID WHITE)
④ PR URETHANE PAVEMENT MARKING, LINE 6" (SOLID WHITE)
⑤ PR PREFORMED PLASTIC PAVEMENT MARKING, TYPE B (INLAID), LINE 6" (6' SKIP, 2' DASH WHITE)
⑥ PR PREFORMED PLASTIC PAVEMENT MARKING, TYPE B (INLAID), LINE 8" (SOLID WHITE)
⑦ PR PREFORMED PLASTIC PAVEMENT MARKING, TYPE B (INLAID), LINE 12" (SOLID WHITE)
⑧ PR PREFORMED PLASTIC PAVEMENT MARKING, TYPE B (INLAID), LINE 12" (SOLID YELLOW)
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⑩ PR PREFORMED PLASTIC PAVEMENT MARKING, TYPE B (INLAID), LETTERS AND SYMBOLS (SOLID WHITE)
▷ PR RAISED REFLECTIVE PAVEMENT MARKERS, ONE-WAY CRYSTAL
▶ PR RAISED REFLECTIVE PAVEMENT MARKERS, ONE-WAY AMBER
◀▶ PR RAISED REFLECTIVE PAVEMENT MARKERS, TWO-WAY AMBER

20 0 20 40
SCALE IN FEET

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

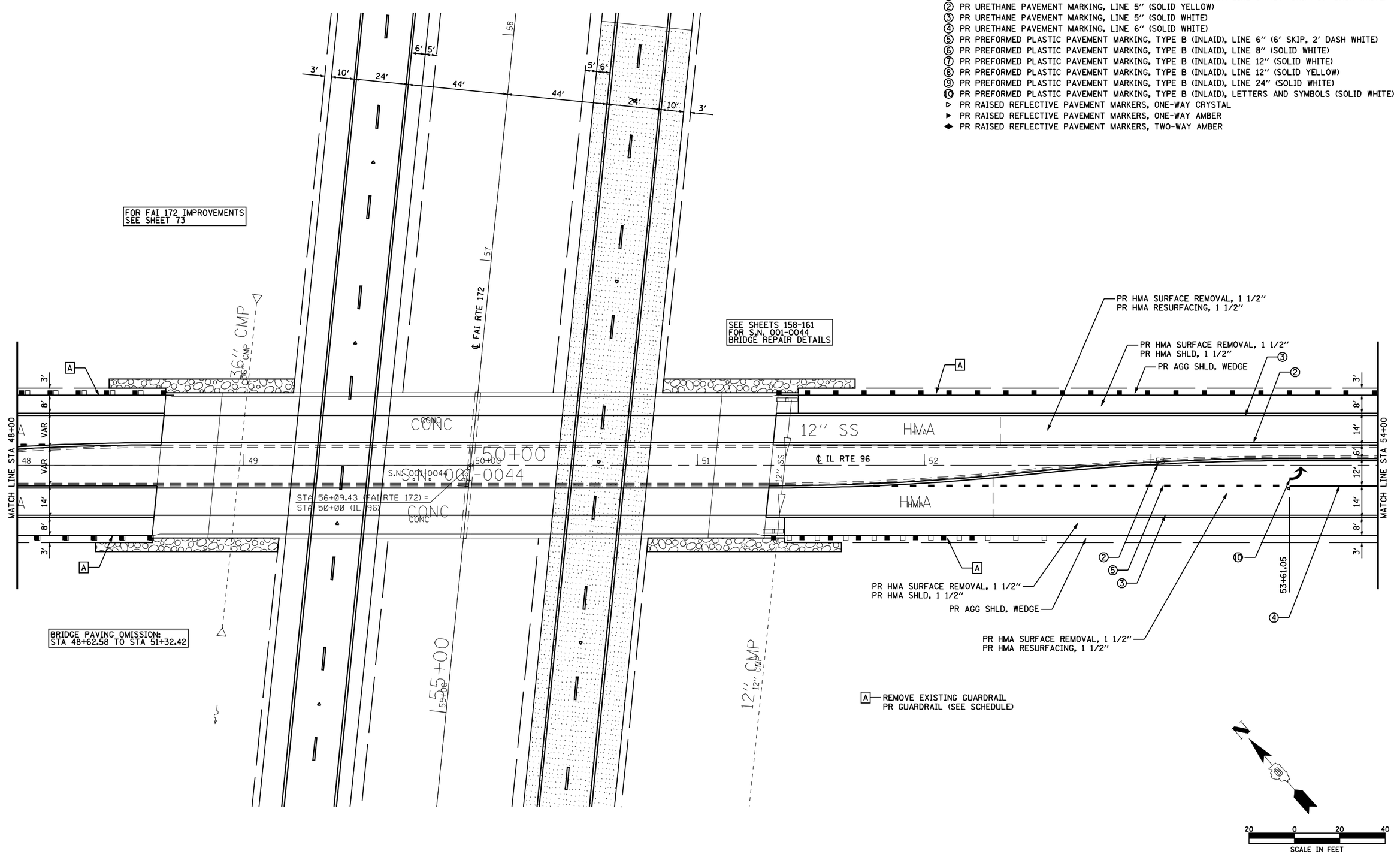
IL RTE 96 PLAN

SCALE: 1"=20' | SHEET NO. 50 OF 52 SHEETS | STA. 42+00 | TO STA. 48+00

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
172	1-(1,2,3,4,5)RS	ADAMS	165	88
		CONTRACT NO. 72A09		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

PAVEMENT MARKIN LEGEND

① PR PREFORMED PLASTIC PAVEMENT MARKING, TYPE B (INLAID), LINE 5" (30' SKIP, 10' DASH WHITE)
② PR URETHANE PAVEMENT MARKING, LINE 5" (SOLID YELLOW)
③ PR URETHANE PAVEMENT MARKING, LINE 5" (SOLID WHITE)
④ PR URETHANE PAVEMENT MARKING, LINE 6" (SOLID WHITE)
⑤ PR PREFORMED PLASTIC PAVEMENT MARKING, TYPE B (INLAID), LINE 6" (6' SKIP, 2' DASH WHITE)
⑥ PR PREFORMED PLASTIC PAVEMENT MARKING, TYPE B (INLAID), LINE 8" (SOLID WHITE)
⑦ PR PREFORMED PLASTIC PAVEMENT MARKING, TYPE B (INLAID), LINE 12" (SOLID WHITE)
⑧ PR PREFORMED PLASTIC PAVEMENT MARKING, TYPE B (INLAID), LINE 12" (SOLID YELLOW)
⑨ PR PREFORMED PLASTIC PAVEMENT MARKING, TYPE B (INLAID), LINE 24" (SOLID WHITE)
⑩ PR PREFORMED PLASTIC PAVEMENT MARKING, TYPE B (INLAID), LETTERS AND SYMBOLS (SOLID WHITE)
▷ PR RAISED REFLECTIVE PAVEMENT MARKERS, ONE-WAY CRYSTAL
▶ PR RAISED REFLECTIVE PAVEMENT MARKERS, ONE-WAY AMBER
◆ PR RAISED REFLECTIVE PAVEMENT MARKERS, TWO-WAY AMBER



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		DRAWN -	REVISED -
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL RTE 96 PLAN

SCALE: 1"=20' | SHEET NO. 51 OF 52 SHEETS | STA. 48+00 | TO STA. 54+00

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
172	1-(1,2,3,4,5)RS	ADAMS	165	89
		CONTRACT NO. 72A09		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

A — EX MEDIAN SURFACE REMOVAL
EX CURB & GUTTER REMOVAL
PR COMB. CURB & GUTTER, TYPE M-6.06
PR CONCRETE MEDIAN SURFACE, 4″
PR GRANULAR EMBANKMENT, SPL., 10″

B — EX MEDIAN SURFACE REMOVAL
EX CURB & GUTTER REMOVAL
PR SOLID CONCRETE MEDIAN,
TYPE SM-6.06 (6′ RAMPED NOSE)

C — EX MEDIAN SURFACE REMOVAL
EX CURB & GUTTER REMOVAL
PR PCC BASE COURSE, 8″
PR SUB-BASE GRANULAR MATERIAL, TYPE A, 6″

D — EX PAVEMENT REMOVAL
PR SOLID CONCRETE MEDIAN,
TYPE SM-6.06 (6′ RAMPED NOSE)

E — EX MEDIAN SURFACE REMOVAL
EX CURB & GUTTER REMOVAL
EX EARTH EXCAVATION
PR COMB. CURB & GUTTER, TYPE M-6.06
PR CONCRETE MEDIAN SURFACE, 4″
PR GRANULAR EMBANKMENT, SPL., 10″

F — EX HMA SHLD REMOVAL
PR HMA BASE COURSE, 12″
PR SUB-BASE GRANULAR MATERIAL, TYPE A, 6″

G — PR HMA BASE COURSE, 12″
PR HMA SHLD, 1 1/2″
PR SUB-BASE GRANULAR MATERIAL, TYPE A, 6″

FOR RAMP B IMPROVEMENTS
SEE SHEET 79

STA 1+92.70,
16.00′ LT
1′ STUB

STA 1+64.36,
17.00′ LT

℄ RAMP B

36″ RCP

75′ HMA RAMP
(SEE DETAIL)

30′

1+04.46

AC

EX ROW AND ACCESS CONTROL

PR PCC SURFACE REMOVAL, VARIABLE DEPTH

1 CENTERED CURVE
R = 85′

STA 1+07.70,
19.00′ LT

PR HMA SURFACE REMOVAL, 1 1/2″
PR HMA SURFACE COURSE, 1 1/2″

PR HMA BASE COURSE, 12″
PR HMA SHLD, 1 1/2″
PR SUB-BASE GRANULAR MATERIAL,
TYPE A, 6″

EX HMA SHLD REMOVAL
PR HMA BASE COURSE, 12″
PR HMA SHLD, 1 1/2″
PR SUB-BASE GRANULAR MATERIAL, TYPE A, 6″

PR AGG SHLD, WEDGE

PR HMA SURF REM, 1 1/2″
PR HMA RESURFACING, 1 1/2″

EX HMA SHLD REMOVAL
PR HMA BASE COURSE, 12″
PR SUB-BASE GRANULAR
MATERIAL, TYPE A, 6″

PR AGG SHLD, WEDGE

PR HMA SURF REM, 1 1/2″
PR HMA SHLD, 1 1/2″

STA 55+80.93,
23.00′ LT

END IMPROVEMENT
STA. 57+24.33

STA 54+76.16,
9.00′ LT

R=626.25′

STA 55+26.16,
5.00′ LT
R = 1.5′

STA 56+12.93,
6.00′ LT
R = 2.5′

STA 56+47.28 (IL 96) =
STA 0+00 (RAMP B)

STA 56+35.01 (IL 96) =
STA 21+53.14 (RAMP A)

MATCH LINE STA 54+00

54 55 56 57 58 59

℄ IL RTE 96

GRASS

HMA

12″ SS

PR HMA SURF REM, 1 1/2″
PR HMA SHLD, 1 1/2″

PR AGG SHLD, WEDGE

PR HMA SURF REM, 1 1/2″
PR HMA RESURFACING, 1 1/2″

55+21.66

STA 55+97.83,
23.00′ RT

PR STOP SIGN

STA 20+85.52,
17.00′ LT

STA 20+72.26,
16.00′ LT
1′ STUB

1 CENTERED CURVE
R = 90′

ELEVATIONS ALONG THE RADII WHERE THE
RAMPS ARE TO BE WIDENED SHALL BE
DETERMINED IN THE FIELD BY THE ENGINEER.

75′ HMA RAMP
(SEE DETAIL)

30′

℄ RAMP A

20+00

PR HMA SURF REM, 1 1/2″
PR HMA SHLD, 1 1/2″

PR STOP SIGN

SEE ISLAND DETAIL
(THIS SHEET)

PR HMA SURFACE REMOVAL, 1 1/2″
PR HMA SURFACE COURSE, 1 1/2″

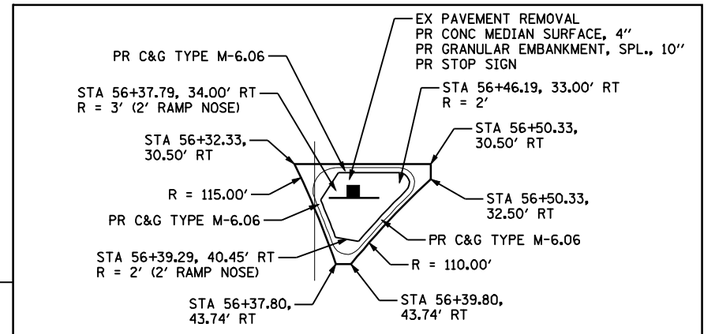
PR HMA SURFACE REMOVAL, VARIABLE DEPTH

END IMPROVEMENT
STA. 57+57.60

H — EX MEDIAN SURFACE REMOVAL
EX CURB & GUTTER REMOVAL
EX EARTH EXCAVATION
PR PCC BASE COURSE, 8″
PR SUB-BASE GRANULAR MATERIAL, TYPE A, 6″

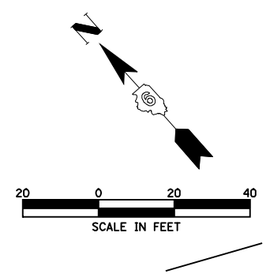
FOR RAMP A IMPROVEMENTS
SEE SHEET 79

ISLAND DETAIL



PAVEMENT MARKIN LEGEND

① PR PREFORMED PLASTIC PAVEMENT MARKING, TYPE B (INLAID), LINE 5″ (30′ SKIP, 10′ DASH WHITE)
② PR URETHANE PAVEMENT MARKING, LINE 5″ (SOLID YELLOW)
③ PR URETHANE PAVEMENT MARKING, LINE 5″ (SOLID WHITE)
④ PR URETHANE PAVEMENT MARKING, LINE 6″ (SOLID WHITE)
⑤ PR PREFORMED PLASTIC PAVEMENT MARKING, TYPE B (INLAID), LINE 6″ (6′ SKIP, 2′ DASH WHITE)
⑥ PR PREFORMED PLASTIC PAVEMENT MARKING, TYPE B (INLAID), LINE 8″ (SOLID WHITE)
⑦ PR PREFORMED PLASTIC PAVEMENT MARKING, TYPE B (INLAID), LINE 12″ (SOLID WHITE)
⑧ PR PREFORMED PLASTIC PAVEMENT MARKING, TYPE B (INLAID), LINE 12″ (SOLID YELLOW)
⑨ PR PREFORMED PLASTIC PAVEMENT MARKING, TYPE B (INLAID), LINE 24″ (SOLID WHITE)
⑩ PR PREFORMED PLASTIC PAVEMENT MARKING, TYPE B (INLAID), LETTERS AND SYMBOLS (SOLID WHITE)
▷ PR RAISED REFLECTIVE PAVEMENT MARKERS, ONE-WAY CRYSTAL
▶ PR RAISED REFLECTIVE PAVEMENT MARKERS, ONE-WAY AMBER
◆ PR RAISED REFLECTIVE PAVEMENT MARKERS, TWO-WAY AMBER



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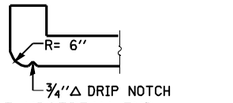
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

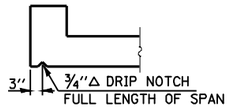
IL RTE 96 PLAN

SCALE: 1″=20′ | SHEET NO. 52 OF 52 SHEETS | STA. 54+00 | TO STA. 60+00

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
172	1-(1,2,3,4,5)RS	ADAMS	165	90
		CONTRACT NO. 72A09		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



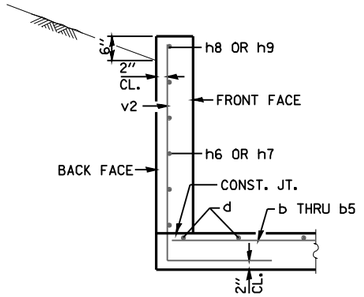
AT UPSTREAM END



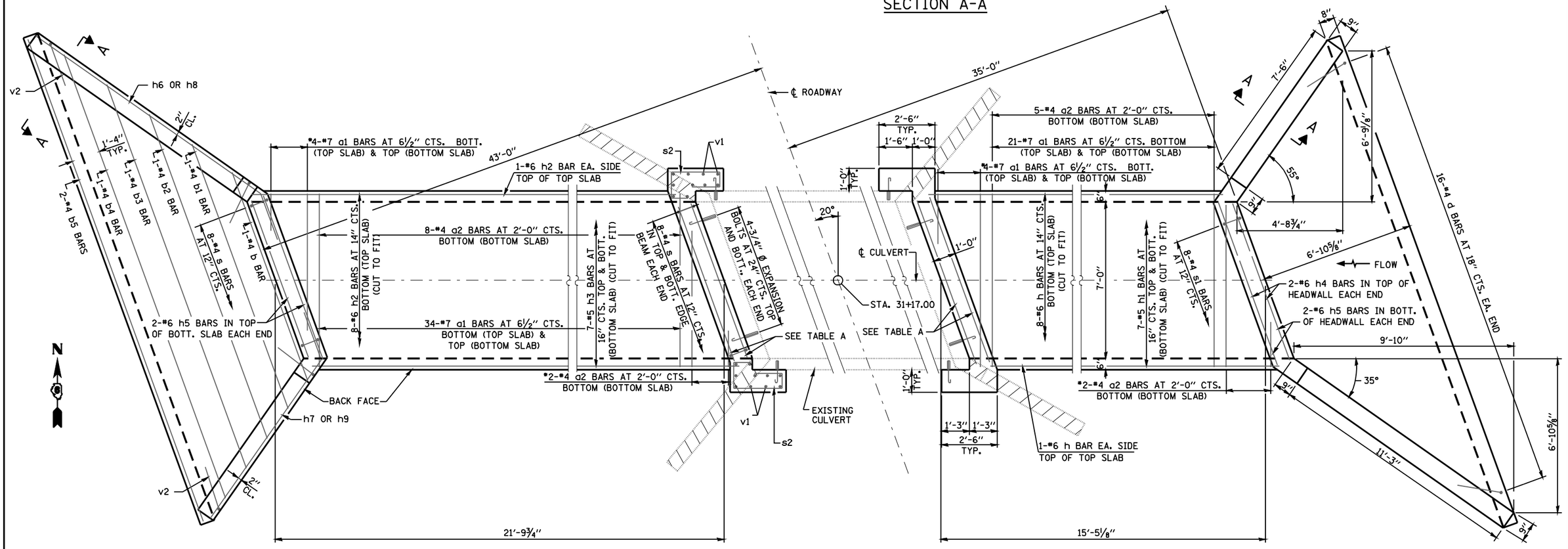
AT DOWNSTREAM END

SECTION THRU HEADWALL

NOTE:
HATCHED AREA INDICATES CONCRETE REMOVAL.
COST INCLUDED WITH CONCRETE REMOVAL.



SECTION A-A



PLAN

QUANTITIES (WEST EXTENSION)

ITEM	UNIT	QTY.
CONCRETE BOX CULVERTS	CU. YD.	24.1
EXPANSION BOLTS, ¾″ Ø	EA.	16
REINFORCEMENT BARS	POUND	4,550
CONCRETE REMOVAL	CU. YD.	3.0

•ORDER a1 & a2 FULL LENGTH, CUT TO FIT SKEW AND USE REMAINDER IN OPPOSITE END. ALTERNATE HOOK OF a1 BARS FOR PLACEMENT.

TABLE A

LOCATION	NO. OF BARS	BAR
TOP OF TOP EDGE BEAM	2	h4
BOTT. OF TOP EDGE BEAM	2	h5
TOP OF BOTT. EDGE BEAM	2	h5
BOTT. OF BOTT. EDGE BEAM	2	h4

QUANTITIES (EAST EXTENSION)

ITEM	UNIT	QTY.
CONCRETE BOX CULVERTS	CU. YD.	20.1
EXPANSION BOLTS, ¾″ Ø	EA.	16
REINFORCEMENT BARS	POUND	3,640
CONCRETE REMOVAL	CU. YD.	3.0

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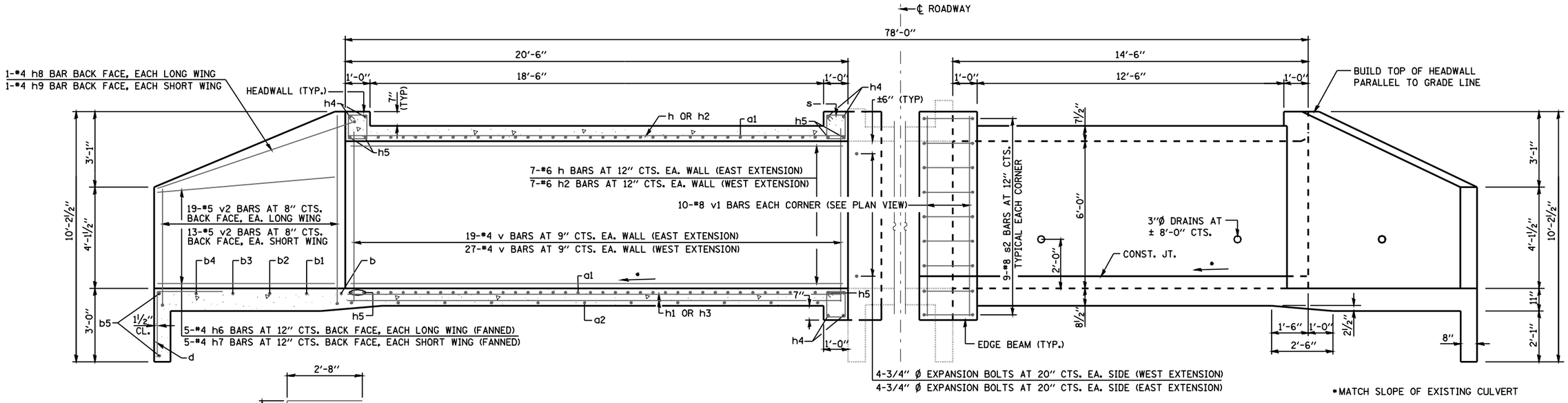
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BOX CULVERT DETAILS
IL 57 STATION 31+17.0

SCALE: none | SHEET NO. 1 OF 2 SHEETS | STA. | TO STA.

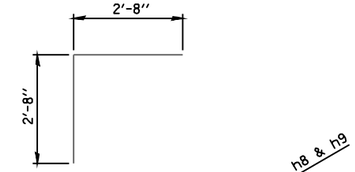
F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
172	1-(1,2,3,4,5)RS	ADAMS	165	91
		CONTRACT NO. 72A09		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



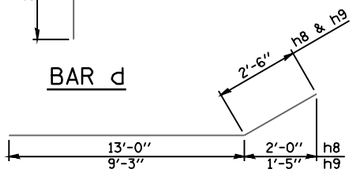
HALF LONG. SECTION

HALF ELEVATION

(DIMENSIONS AT RT. ℄'S TO ℄ ROADWAY)

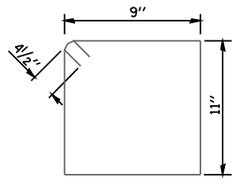


BAR d

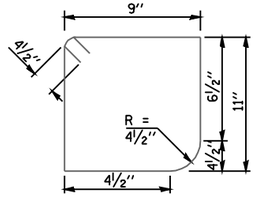


BARS h8 & h9

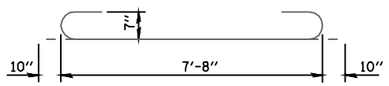
(BEND IN FIELD)



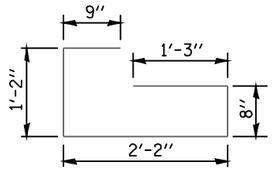
BAR s



BAR s1



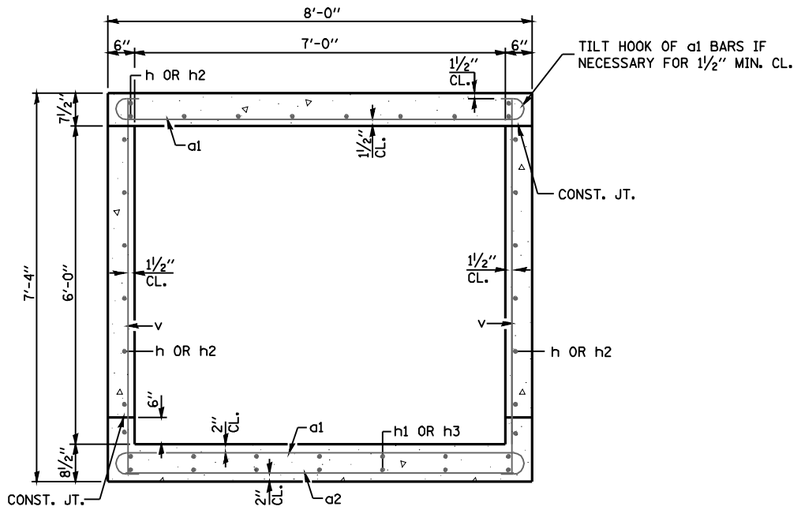
BAR a1



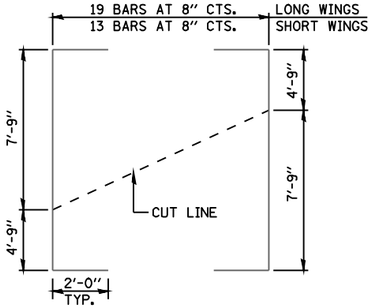
BAR s2

BILL OF MATERIAL

BAR	NO.	SIZE	LENGTH	SHAPE
a1	126	#7	9′-4″	
a2	17	#4	7′-3″	
b	2	#4	9′-10″	
b1	2	#4	12′-7″	
b2	2	#4	15′-5″	
b3	2	#4	18′-3″	
b4	2	#4	21′-1″	
b5	4	#4	22′-11″	
d	32	#4	5′-4″	
h	23	#6	15′-1″	
h1	14	#5	15′-1″	
h2	23	#6	21′-6″	
h3	14	#5	21′-6″	
h4	12	#6	7′-7″	
h5	16	#6	8′-3″	
h6	10	#4	12′-7″	
h7	10	#4	8′-11″	
h8	2	#4	15′-6″	
h9	2	#4	11′-9″	
s	40	#4	4′-1″	
s1	8	#4	3′-11″	
s2	36	#8	6′-0″	
v	92	#4	7′-0″	
v1	40	#8	8′-2″	
v2	64	#5	16′-6″	
REINFORCEMENT BARS		POUND	8,190	



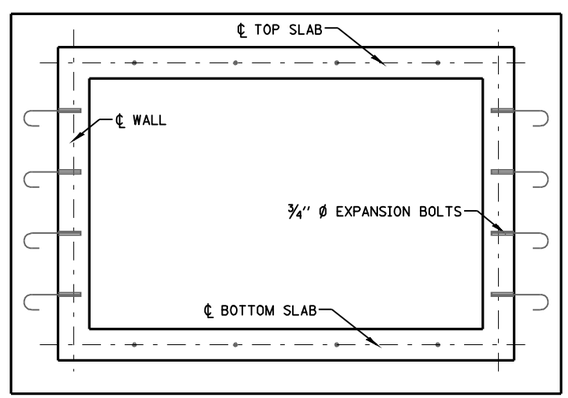
SECTION THRU BARREL



FIELD CUTTING DIAGRAM
BAR v2

NOTES:

1. EXPOSED EDGES SHALL BE BEVELED ¾″.
2. FOR BACKFILLING AND EMBANKMENT, SEE STANDARD SPECIFICATIONS.
3. REINFORCEMENT BARS SHALL CONFORM TO THE REQUIREMENTS OF ASTM A 706 GR. 60. SEE SPECIAL PROVISIONS.
4. EXPANSION BOLTS SHALL BE ¾″ Ø HOOKED BOLTS. HOOKED BOLTS SHALL EXTEND A MINIMUM OF 9″ INTO NEW CONCRETE.



EXPANSION BOLT LOCATION DETAIL

DESIGN STRESSES

(NEW CONSTRUCTION)

fy= 60,000 PSI

f′c= 3,500 PSI

LOADING HS 20-44 & ALT.

(NEW CONSTRUCTION)

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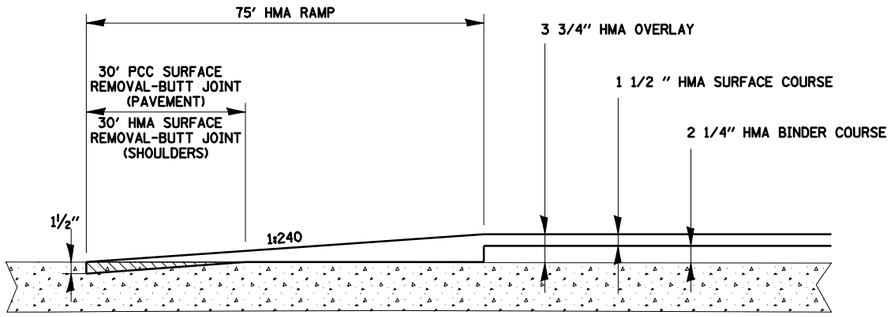
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BOX CULVERT DETAILS
IL 57 STATION 31+17.0

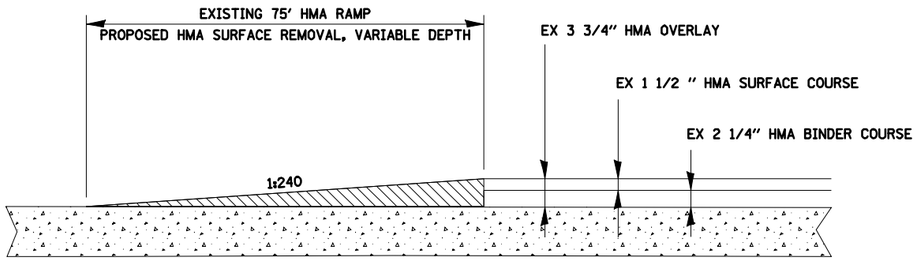
SCALE: none | SHEET NO. 2 OF 2 SHEETS | STA. | TO STA.

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
172	1-(1,2,3,4,5)RS	ADAMS	165	92
		CONTRACT NO. 72A09		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



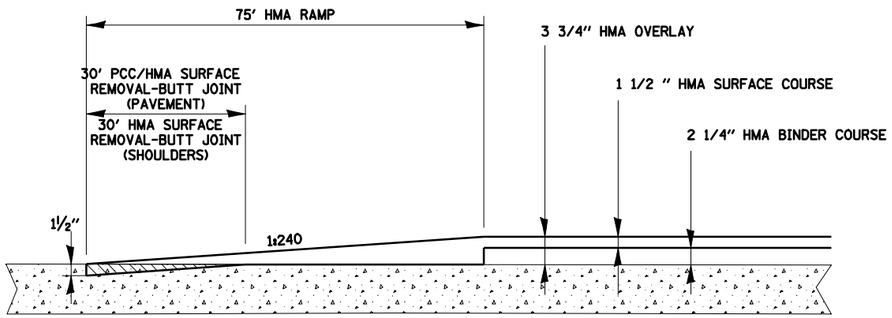
BUTT JOINT DETAIL - FAI 172

STA 16+40.03 TO STA 17+15.03 (S.B.)
STA 76+00.00 TO STA 76+75.00 (N.B.)



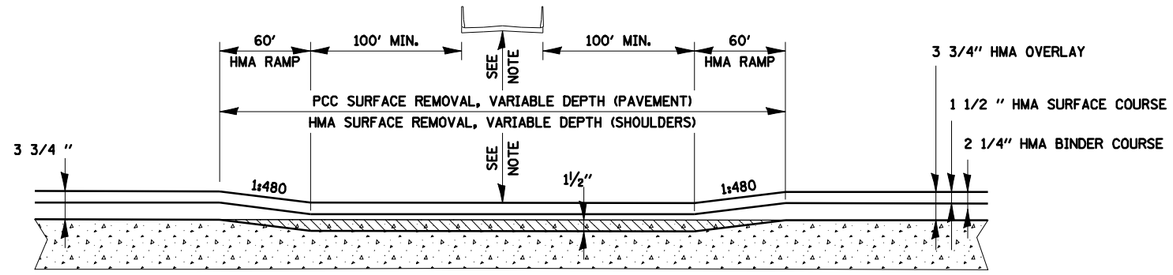
EXISTING HMA RAMP REMOVAL - FAI 172

STA 75+24.00 TO STA 75+99.00 (S.B.)
STA 78+25.00 TO STA 79+00.00 (N.B.)



BUTT JOINT DETAIL - IL 96 RAMPS

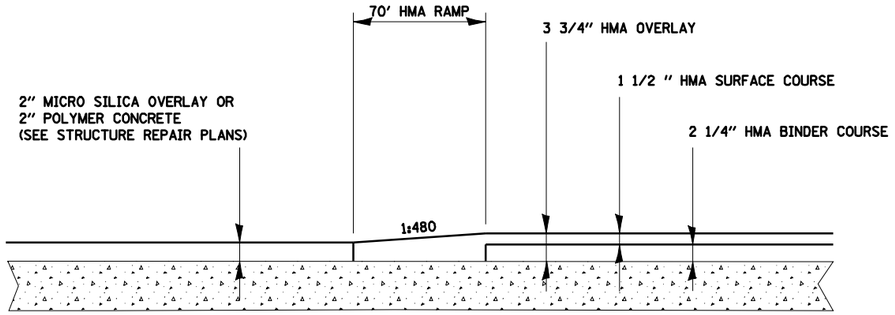
STA 19+97.26 TO STA 20+72.26 (RAMP A)
STA 1+04.46 TO STA 1+79.46 (RAMP B)
STA 19+97.12 TO STA 20+72.12 (RAMP C)
STA 1+04.46 TO STA 1+79.46 (RAMP D)



NOTE: MINIMUM VERTICAL CLEARANCE TO LOW STEEL SHALL BE 16'-0".

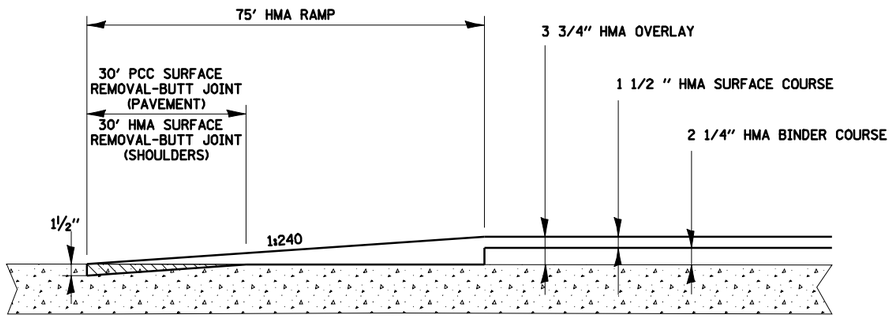
HMA RAMP LOCATIONS - FAI 172 WITH OVERPASS

STA 167+75.00 TO STA 171+90.00 (S.B. @ TR 483)
STA 54+20.00 TO STA 58+10.00 (N.B. @ IL 96)



HMA RAMP LOCATIONS - FAI 172 ADJACENT TO STRUCTURES

STA 118+82.00 TO STA 119+52.00 (N.B. & S.B.)
STA 121+61.50 TO STA 122+31.50 (N.B. & S.B.)
STA 147+24.00 TO STA 147+94.00 (N.B.)
STA 148+00.00 TO STA 148+70.00 (S.B.)
STA 151+53.00 TO STA 152+23.00 (N.B.)
STA 152+28.00 TO STA 152+98.00 (S.B.)
STA 178+12.00 TO STA 178+82.00 (S.B.)
STA 179+02.00 TO STA 179+72.00 (N.B.)
STA 181+87.00 TO STA 182+57.00 (S.B.)
STA 183+00.00 TO STA 183+70.00 (N.B.)



BUTT JOINT DETAIL - IL 57 RAMPS

STA 26+64.94 TO STA 27+39.94 (RAMP A)
STA 1+34.08 TO STA 2+09.08 (RAMP B)
STA 24+47.58 TO STA 25+22.58 (RAMP C)
STA 1+43.59 TO STA 2+18.59 (RAMP D)

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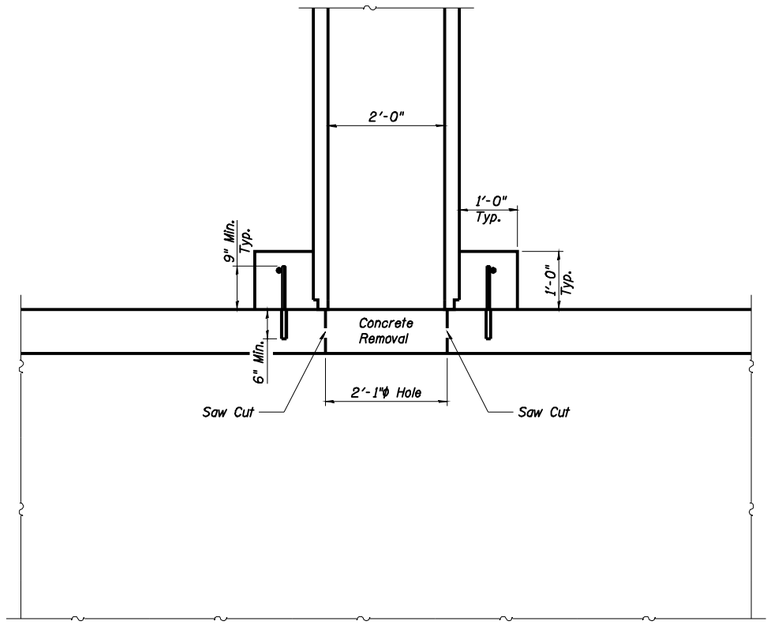
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

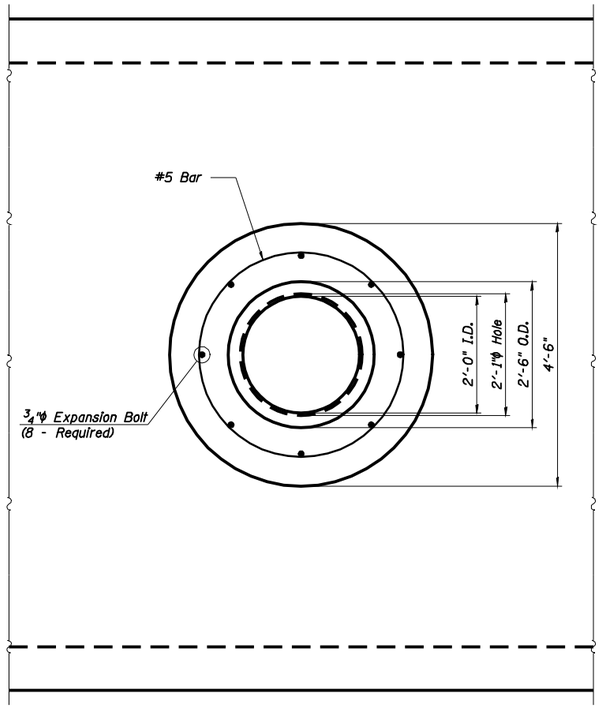
HMA RAMP AND BUTT JOINT DETAILS

SCALE: none | SHEET NO. 1 OF 9 SHEETS | STA. | TO STA.

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
172	1-(1,2,3,4,5)RS	ADAMS	165	93
		CONTRACT NO. 72A09		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



ELEVATION



PLAN

NOTES:

Expansion Bolts shall consist of self drilling expansion shields and $\frac{3}{4}$" diameter hooked bolts. Hooked bolts shall extend a minimum 9" into the new concrete. Minimum certified proof load = 4,000 lbs.

Cost of Saw Cuts, Concrete Removal, Expansion Bolts, Reinforcement Bars, and Concrete Collar shall be included in the cost of Pipe Culvert, Class A, Type 2 24".

SCHEDULE OF ESTIMATED QUANTITIES *

STATION	CONCRETE REMOVAL	SAW CUTS	CONCRETE COLLAR	EXPANSION BOLTS $\frac{3}{4}$"	REINFORCEMENT BARS
	(C.Y.)	(FOOT)	(C.Y.)	(EACH)	(LBS)
STA. 282+26.00 CL.	0.1	6.5	0.5	8	12

** This table for information only. Cost of Saw Cuts, Concrete Removal, Expansion Bolts, Reinforcement Bars, and Concrete Collar shall be included in the cost of Pipe Culvert, Class A, Type 2 24".*

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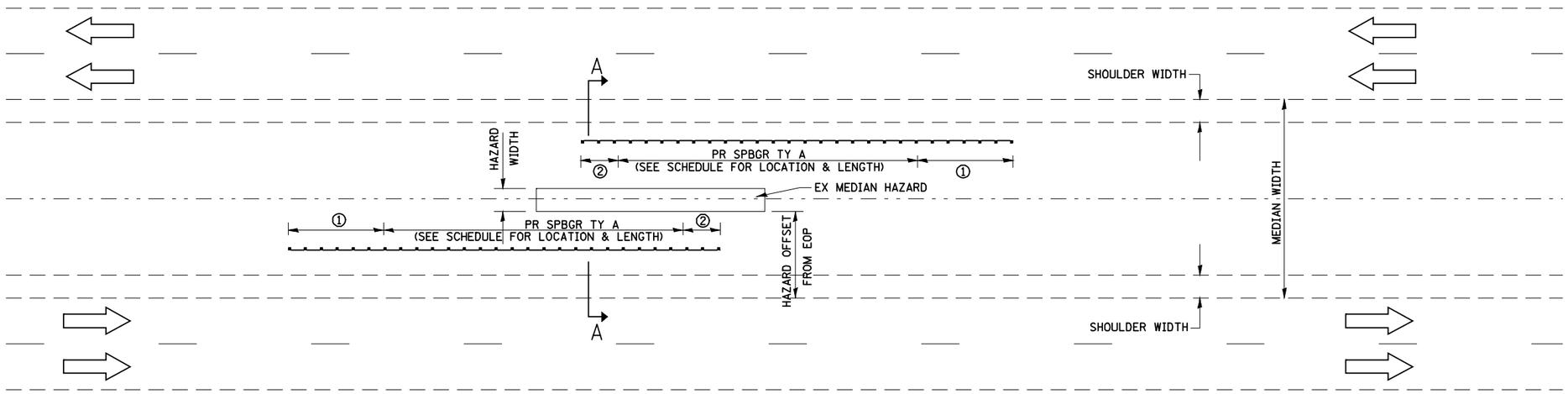
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

RISER PIPE INTO BOX CULVERT DETAIL

SCALE: none | SHEET NO. 2 OF 9 SHEETS | STA. | TO STA.

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
172	1-(1,2,3,4,5)RS	ADAMS	165	94
		CONTRACT NO. 72A09		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

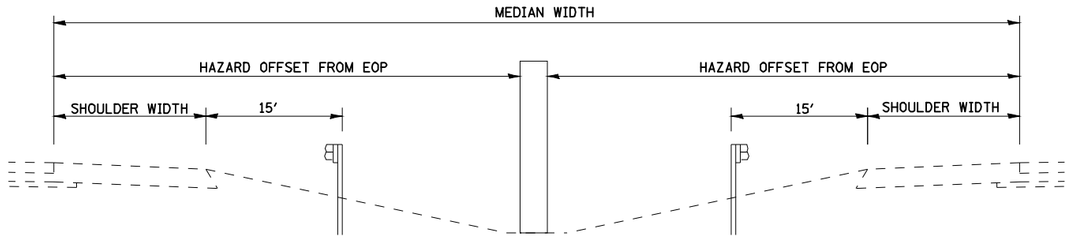


DETAIL "B"

(PROPOSED PROTECTION OF MEDIAN HAZARD WITH PROPOSED GUARDRAIL)

① PR TRAFFIC BARRIER TERMINAL, TYPE 1, SPECIAL (TANGENT)

② PR TRAFFIC BARRIER TERMINAL, TYPE 2



SECTION A–A

(TYPICAL CROSS SECTION)

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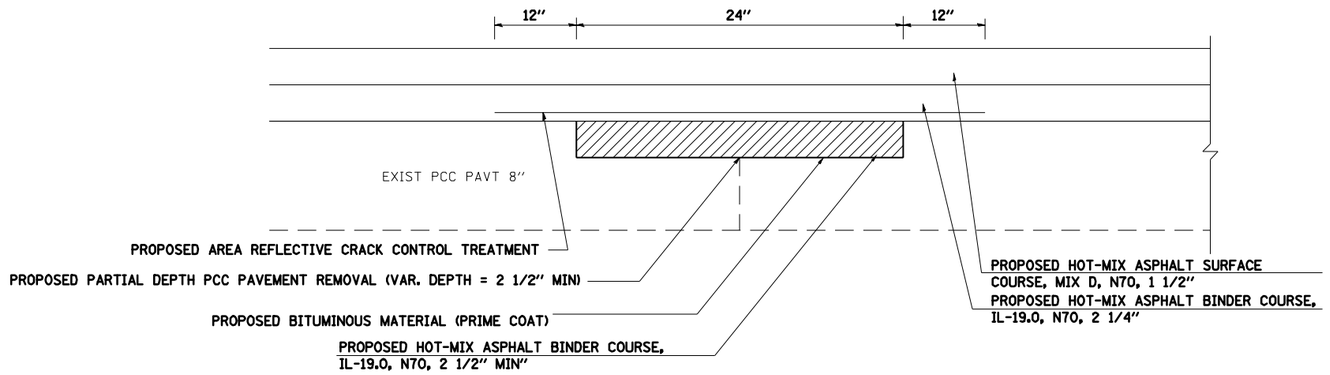
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

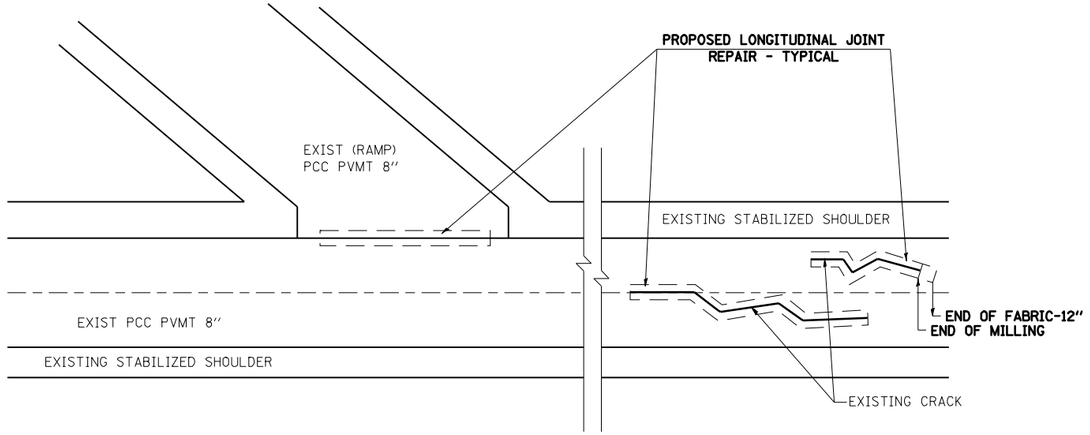
GUARDRAIL LAYOUT FOR MEDIAN PIERS

SCALE: none | SHEET NO. 3 OF 9 SHEETS | STA. | TO STA.

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
172	1-(1,2,3,4,5)RS	ADAMS	165	95
		CONTRACT NO. 72A09		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



PROPOSED LONGITUDINAL JOINT REPAIR DETAIL
(TYPICAL)



LONGITUDIANL JOINT REPAIR
(PLAN VIEW)

NOTE : THE ENGINEER IN THE FIELD SHALL DETERMINE AND LOCATE ALL AREAS FOR REPAIR

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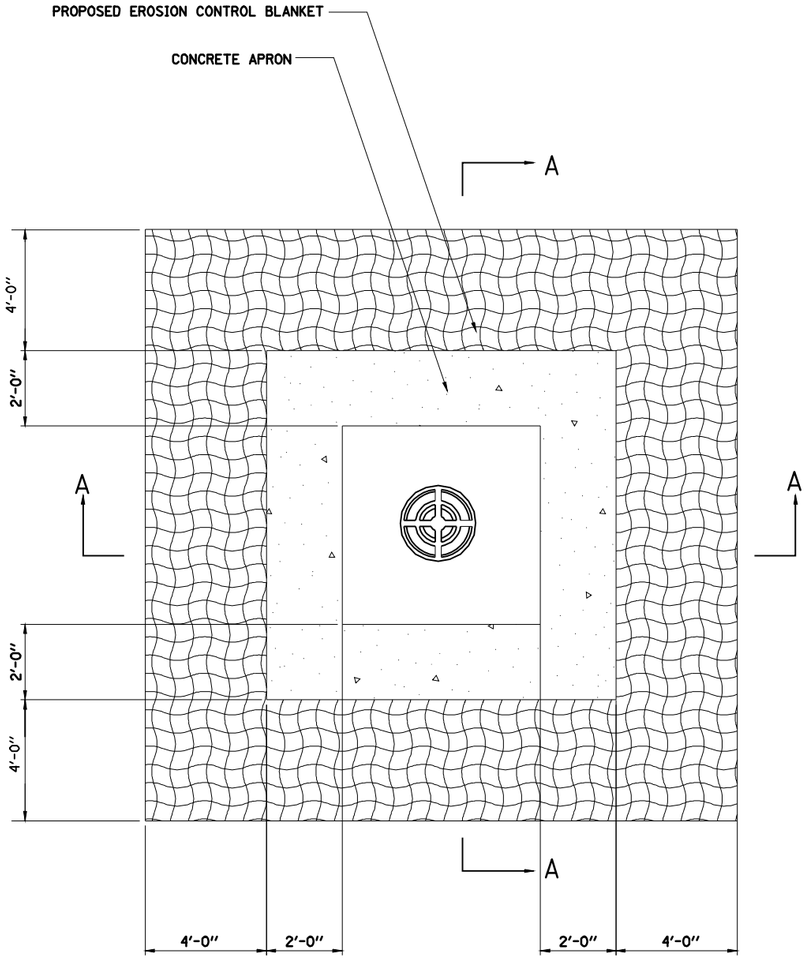
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

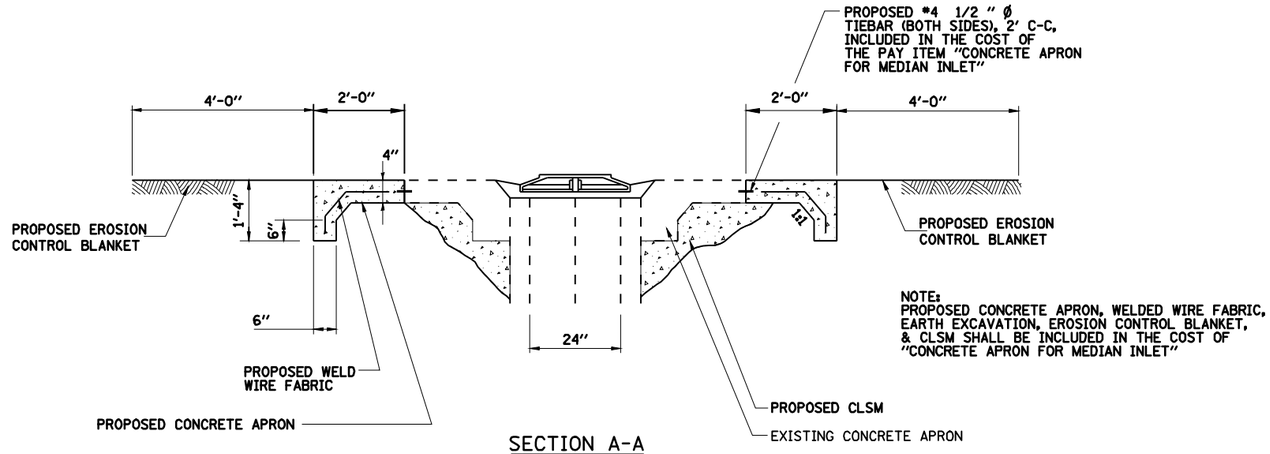
LONGITUDINAL JOINT REPAIR

SCALE: none | SHEET NO. 4 OF 9 SHEETS | STA. | TO STA.

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
172	1-(1,2,3,4,5)RS	ADAMS	165	96
		CONTRACT NO. 72A09		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



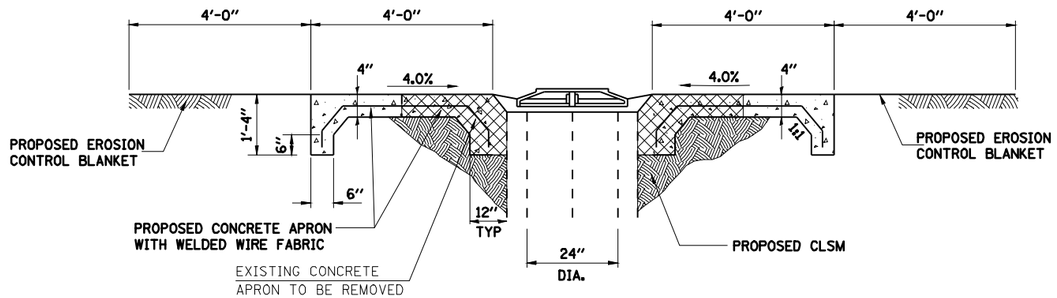
PLAN VIEW



SECTION A-A

CONCRETE APRON FOR MEDIAN INLET (604101)

NOTE:
PROPOSED CONCRETE APRON, WELDED WIRE FABRIC, EARTH EXCAVATION, EROSION CONTROL BLANKET, & CLSM SHALL BE INCLUDED IN THE COST OF "CONCRETE APRON FOR MEDIAN INLET"



SECTION A-A

MEDIAN INLET (604101) TO BE RECONSTRUCTED

NOTE:
REMOVAL AND DISPOSAL OF THE EXISTING CONCRETE APRON, PROPOSED CONCRETE APRON, WELDED WIRE FABRIC, EARTH EXCAVATION, EROSION CONTROL BLANKET, FRAME & GRATE ADJUSTMENT, & CLSM SHALL BE INCLUDED IN THE COST OF "MEDIAN INLET (604101) TO BE RECONSTRUCTED"

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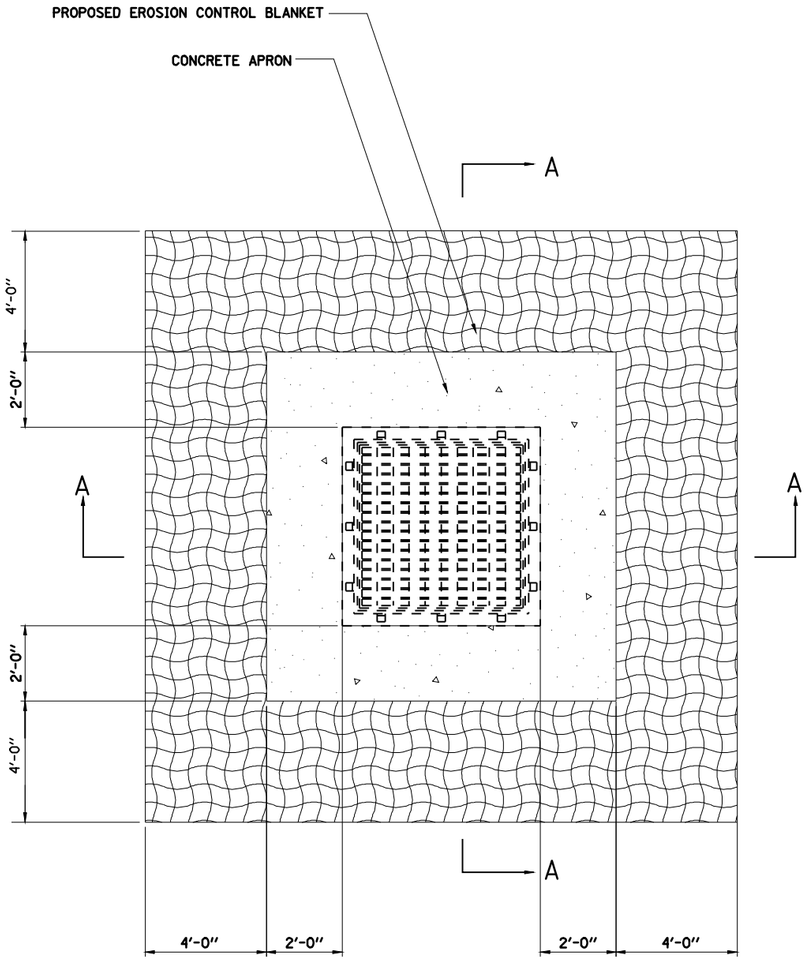
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

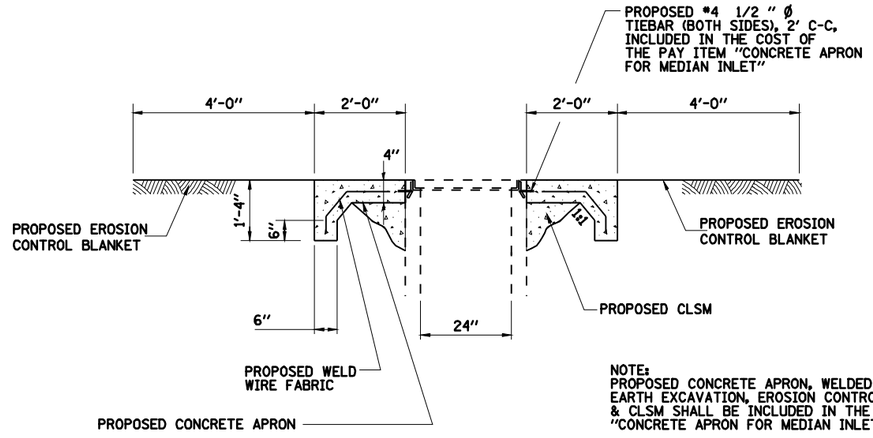
CONCRETE APRON FOR MEDIAN INLET (604101) DETAIL
MEDIAN INLET (604101) TO BE RECONSTRUCTED DETAIL

SCALE: none | SHEET NO. 5 OF 9 SHEETS | STA. | TO STA.

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
172	1-(1,2,3,4,5)RS	ADAMS	165	97
		CONTRACT NO. 72A09		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



PLAN VIEW



SECTION A-A

CONCRETE APRON FOR MEDIAN INLET BOX (542546)

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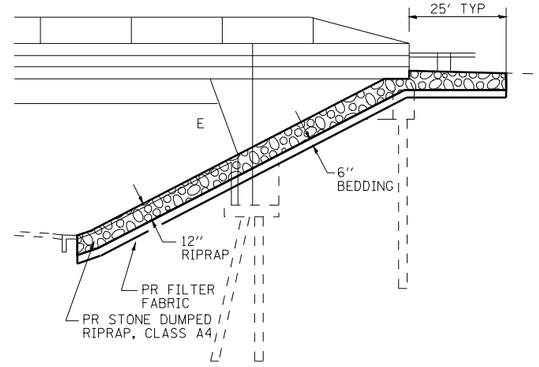
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

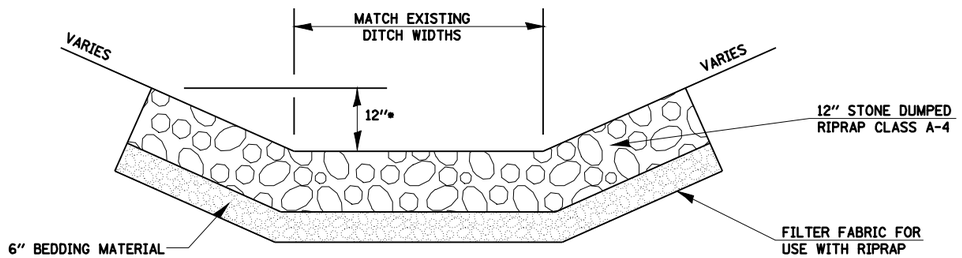
CONCRETE APRON FOR MEDIAN INLET BOX (542546) DETAIL

SCALE: none | SHEET NO. 6 OF 9 SHEETS | STA. | TO STA.

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
172	1-(1,2,3,4,5)RS	ADAMS	165	98
		CONTRACT NO. 72A09		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

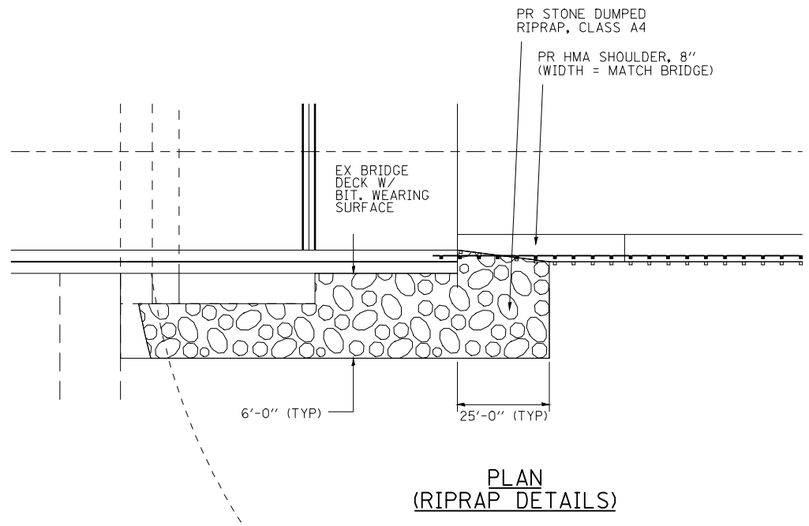


ELEVATION RIPRAP DETAIL ALONG BRIDGE
CURTAIN WALL AND SLOPE WALL



TYPICAL STONE RIPRAP - DITCH LINING

* OR AS DIRECTED BY ENGINEER



PLAN
(RIPRAP DETAILS)

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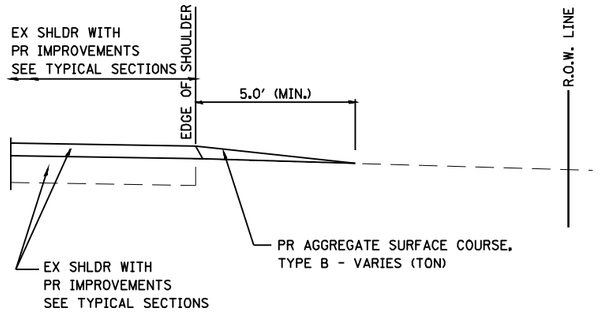
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

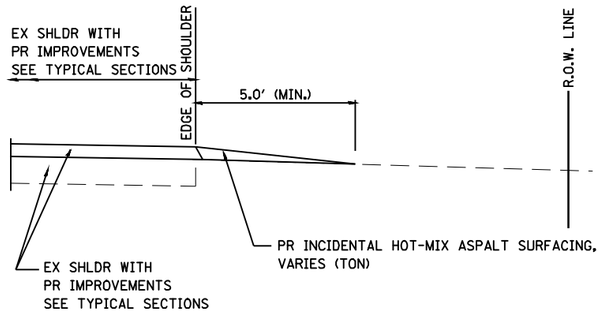
RIPRAP PLACEMENT DETAILS

SCALE: none | SHEET NO. 7 OF 9 SHEETS | STA. | TO STA.

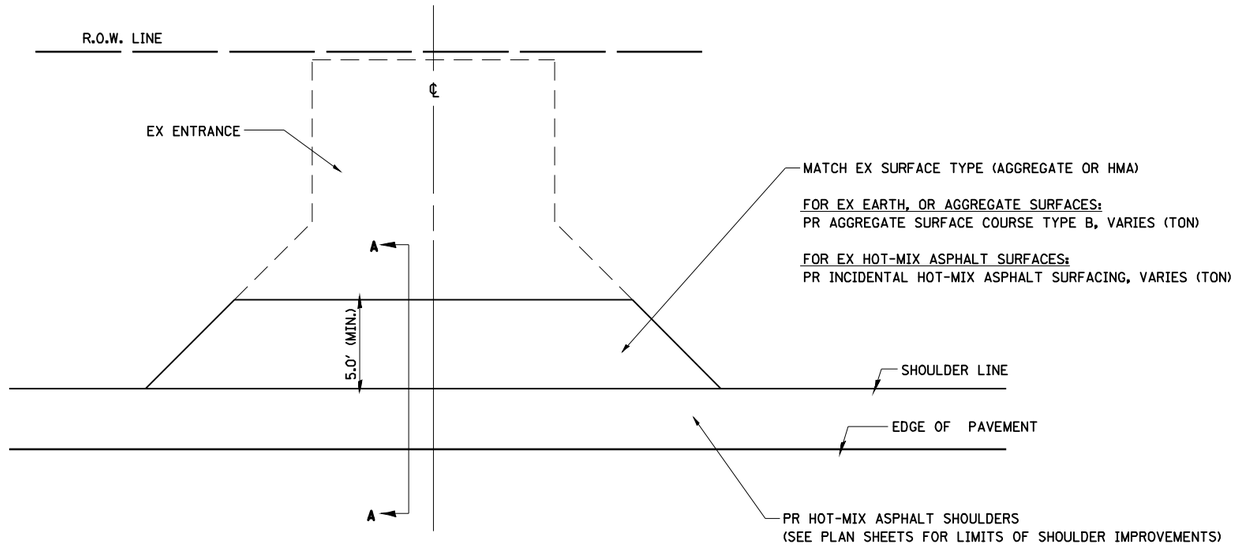
F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
172	1-(1,2,3,4,5)RS	ADAMS	165	99
		CONTRACT NO. 72A09		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



SECTION A-A FOR EX EARTH/AGGREGATE



SECTION A-A FOR EX HOT-MIX ASPHALT



GENERAL NOTES:

THE RESIDENT ENGINEER WILL DETERMINE THE EXACT TYPE OF IMPROVEMENT TO BE COMPLETED FOR ALL ENTRANCES ON THIS PROJECT.

THE PLAN DETAILS AND SCHEDULES SHOULD BE USED AS A GUIDE FOR THE ENGINEER TO IMPLEMENT THE FINAL DESIGN.

HOT-MIX ASPHALT REQUIRED TO CONSTRUCT THE ENTRANCES SHALL BE IN ACCORDANCE WITH THE APPLICABLE PORTIONS OF SECTION 406 AND 408 OF THE STANDARD SPECIFICATIONS AND AS DIRECTED BY THE ENGINEER.

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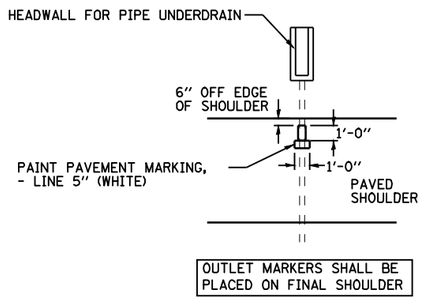
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

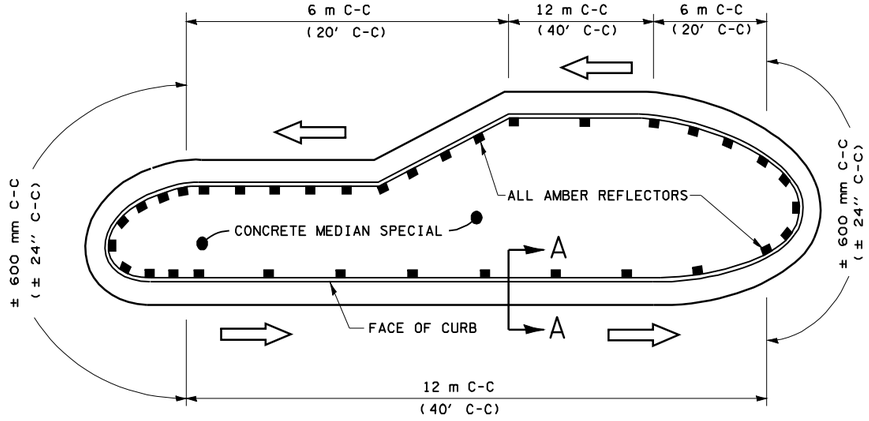
ENTRANCE DETAILS

SCALE: none | SHEET NO. 8 OF 9 SHEETS | STA. | TO STA.

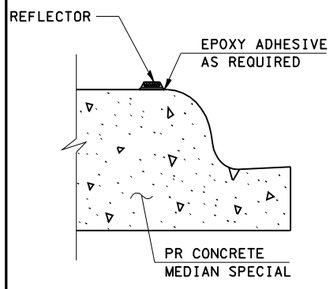
F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
172	1-(1,2,3,4,5)RS	ADAMS	165	100
		CONTRACT NO. 72A09		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

TYPICAL PIPE UNDERDRAIN MARKER DETAIL





TYPICAL PLACEMENT OF PRISMATIC REFLECTORS
ON RAISED MEDIAN

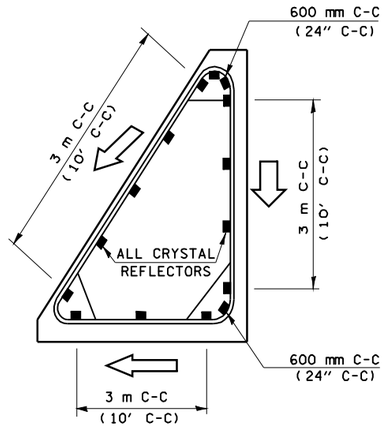


SECTION A-A

LEGEND

DIRECTION OF TRAFFIC

PRISMATIC REFLECTOR



TYPICAL PLACEMENT OF PRISMATIC REFLECTORS
ON CURBED CORNER ISLAND

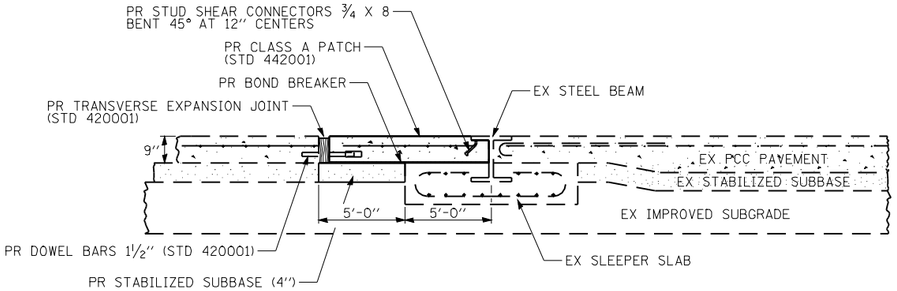
GENERAL NOTES

PRISMATIC REFLECTORS SHALL BE MONO-DIRECTIONAL UNITS AND THE REFLECTOR FACE SHALL BE POSITIONED TO FACE THE APPROACHING TRAFFIC.

PRISMATIC REFLECTORS SHALL BE SECURED IN PLACE WITH AN EPOXY ADHESIVE.

PRISMATIC REFLECTOR FACE SHALL BE EITHER AMBER OR CRYSTAL IN COLOR.

REFER TO SCHEDULES FOR PRISMATIC REFLECTOR QUANTITIES.

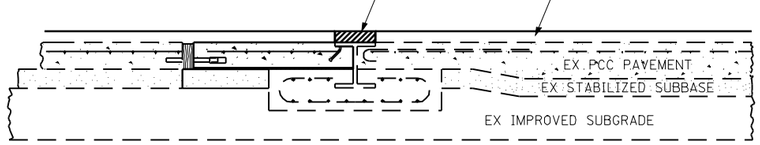


WIDE FLANGE BEAM TERMINAL JOINT REPAIR DETAIL

NOTE: THE FOLLOWING ITEMS WILL BE MEASURED AND PAID FOR ACCORDING TO SECTION 442 OF THE STANDARD SPECIFICATIONS:

1) REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL (CU YD)
2) STABILIZED SUB-BASE 4" (SQ YD)
3) CLASS A PATCHES, TYPE II, 9 INCH (SQ YD)
4) PATCH REINFORCEMENT (SQ YD)
5) SAW CUTS (FOOT)
6) STUD SHEAR CONNECTORS (EACH)
7) DOWEL BARS 1½" (EACH)

ALL OTHER MISCELLANEOUS ITEMS NECESSARY TO COMPLETE THIS WORK WILL NOT BE MEASURED AND PAID FOR SEPARATELY BUT SHALL BE CONSIDERED AS INCLUDED IN THE ABOVE PAY ITEMS.



WIDE FLANGE BEAM TERMINAL JOINT RESURFACING DETAIL

NOTE: CONTRACTOR TO SURFACE OVER EXISTING WIDE FLANGE BEAM TERMINAL JOINT. UPON COMPLETION OF RESURFACING, CONTRACTOR TO SAW CUT HOT-MIX ASPHALT SURFACING AT THE EDGE OF THE BEAM AND REMOVE THE HOT-MIX ASPHALT MATERIAL, COST TO BE INCLUDED WITH THE COST FOR POLYMER CONCRETE.

CONTRACTOR IS TO NOTE LOCATION OF BEAM PRIOR TO RESURFACING TO ALLOW EDGES OF THE BEAM TO BE IDENTIFIED FOR SAW CUT LOCATIONS.

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MISCELLANEOUS DETAILS

SCALE: none | SHEET NO. 10 OF 10 SHEETS | STA. | TO STA.

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
172	1-(1,2,3,4,5)RS	ADAMS	165	101
		CONTRACT NO. 72A09		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

P:\09files\090044\Work Order 5 (PE 2 - I-72)\CADD_Sheets\Bridge Plans\SN001-0064-65\0010064_65-0672A09-001-GPE.dgn

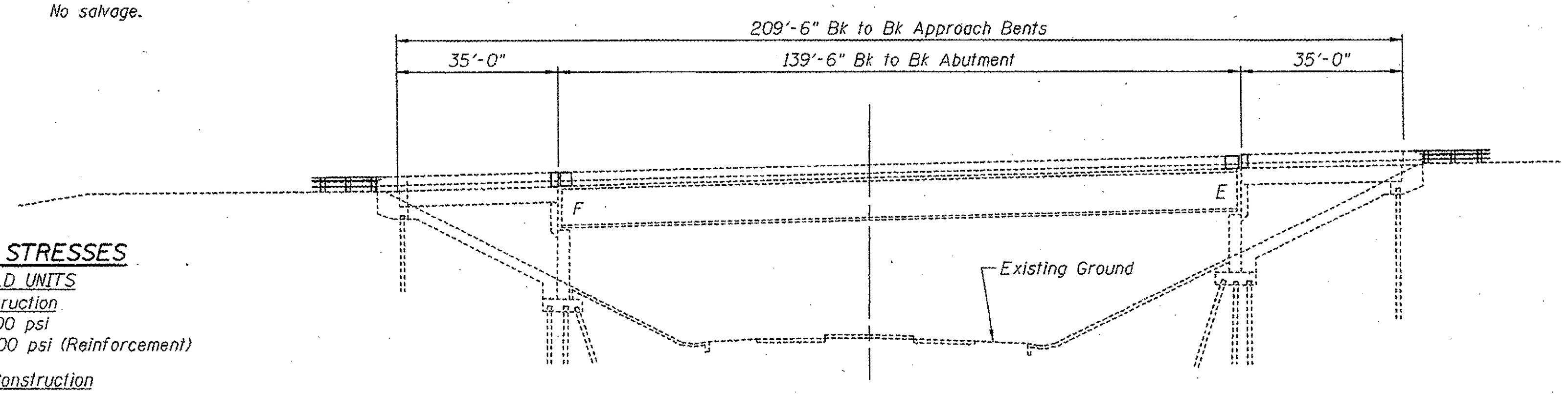
2/19/2010

Existing Structure: SN 001-0064 & SN 001-0065 are dual single span, 60" welded plate girder structures on vaulted abutments. The structures were built in 1982 and carry FAI 172 over Illinois Route 57. Joint rehabilitation was done on the structures in 2001. The structures are 209'-6" long measured from back to back of approach bents. SN 001-0064 varies from 54'-9⅝" to 43'-6⅞" wide out to out to accommodate an exit ramp. SN 001-0065 varies from 56'-7½" to 52'-4¼" wide out to out to accommodate an entrance ramp. Both structures are on a 0 degree skew and have an approximate 26'-4" minimum clearance over Illinois Route 57.

Structure improvements include removing the existing expansion joints and replacing with strip seals, structural repair of concrete at the abutments, concrete deck patching, hydro scarification of the deck, placing microsilica overlay, replacing existing guardrail, and removing & replacing concrete bridge approach shoulder pavement.

Traffic to be maintained utilizing stage construction.

No salvage.



ELEVATION

DESIGN STRESSES

FIELD UNITS

New Construction
f'c = 3,500 psi
fy = 60,000 psi (Reinforcement)

Existing Construction
f'c = 3,500 psi
fy = 60,000 psi (Reinforcement)
fs = 36,000 psi (M183) (Structural Steel)
50,000 psi (M223 Grade 50)
(Structural Steel)

PRECAST PRESTRESSED UNITS

Existing Construction
f'c = 5,000 psi
f'ci = 4,000 psi
f's = 270,000 psi
f'si = 189,000 psi

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

Reinforcement bars designated (E) shall be epoxy coated.

Reinforcement bars shall conform to the requirements of ASTM A 706 grade 60. See special provisions.

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.

Joint openings shall be adjusted according to article 520.04 of the standard specifications when the deck is poured at an ambient temperature other than 50 degrees fahrenheit.

All repair work associated with the bridges shall be completed by stage construction utilizing TC&P. Standard 701402 and with temporary concrete barrier located as detailed in these repair plans.

Prior to pouring the new concrete deck, all heavy or loose rust, loose mill scale, and other loose or potentially detrimental foreign material shall be removed from the surfaces in contact with 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.

As directed by the Engineer, existing construction accessories welded to the top flange of beams and girders shall be removed. The weld areas shall be ground flush and inspected for cracks using magnetic particle testing (MT) or dye penetrant testing (PT) by qualified personnel approved by the Engineer. Any cracks that can not be removed by grinding ½in. deep shall be identified and reported to the Bureau of Bridges and Structures for futher disposition. The cost of removing welded accessories, grinding and inspecting weld areas and grinding cracks will be paid for acording to Article 109.04 of the Standard Specifications.

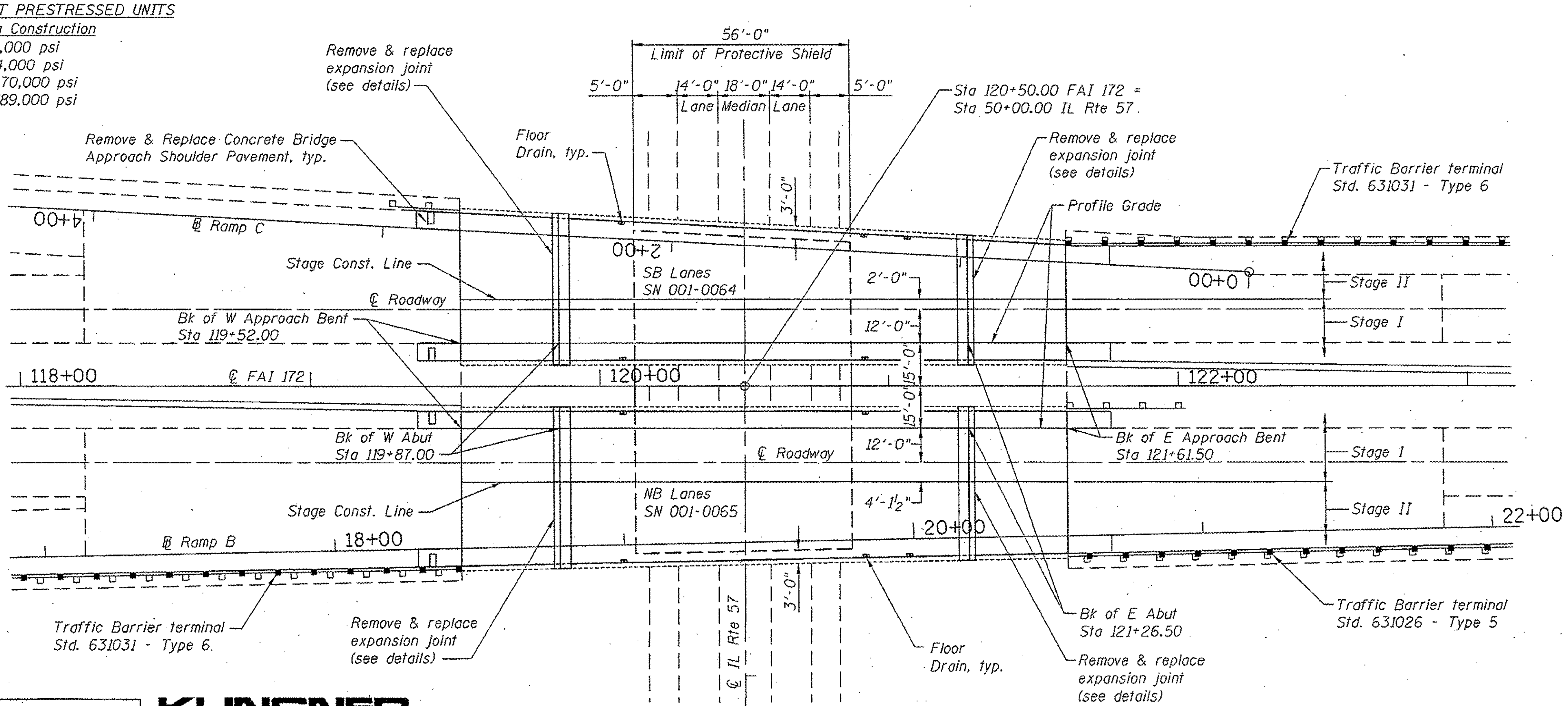
The existing structural steel coating contains lead. The Contractor shall take appropriate precautions to deal with the presence of lead on this project.

The "Bridge Approach Shoulder Removal" and "P.C. Concrete Bridge Approach Shoulder Pavement" shall be constructed to proposed grade, after the completion of the microsilica overlays and joint repairs. Stage traffic shall not drive on the new bridge approach shoulders.

Concrete Sealer shall apply to Top of Deck, Inside Face of Parapets, & Top of Parapets.

TOTAL BILL OF MATERIALS

ITEM	UNIT	TOTAL
CONCRETE REMOVAL	CU YD	20.2
REINFORCEMENT BARS, EPOXY COATED	POUND	3620
BAR SPLICERS	EACH	44
PREFORMED JOINT STRIP SEAL	FOOT	203.0
CONCRETE SUPERSTRUCTURE	CU YD	23.9
DECK SLAB REPAIR (FULL DEPTH, TYPE II)	SQ YD	5.3
DECK SLAB REPAIR (FULL DEPTH, TYPE I)	SQ YD	5.3
BRIDGE DECK MICROSILICA CONCRETE OVERLAY 2½"	SQ YD	2191
BRIDGE DECK HYDRO-SCARIFICATION ½"	SQ YD	2191
FRAMES AND GRATES TO BE ADJUSTED	EACH	4
POLYMER CONCRETE	CU FT	8.9
FLOOR DRAINS	EACH	12
BRIDGE APPROACH SHOULDER REMOVAL	SQ YD	42
P.C. CONCRETE BRIDGE APPROACH SHOULDER PAVEMENT	SQ YD	42
STRUCTURAL REPAIR OF CONCRETE (DEPTH EQUAL TO OR LESS THAN 5 INCHES)	SQ FT	825
CONCRETE SEALER	SQ FT	22077
BRIDGE DECK GROOVING	SQ YD	2164
PROTECTIVE SHIELD	SQ YD	703



PLAN

STATE OF ILLINOIS
ALAN D. LUKENS
081-005167
QUINCY, ILLINOIS
LICENSED STRUCTURAL ENGINEER

Alan D. Lukens — 2-19-10
Date
Licensed Structural Engineer
State of Illinois No. 081-005167
License Expires 11/30/10

DESIGN SPECIFICATIONS
(New Construction)
2002 AASHTO "Standard Specifications for Highway Bridges"

LOADING HS20-44

DESIGNED	KTH
CHECKED	ADL
DRAWN	KTH
CHECKED	ADL

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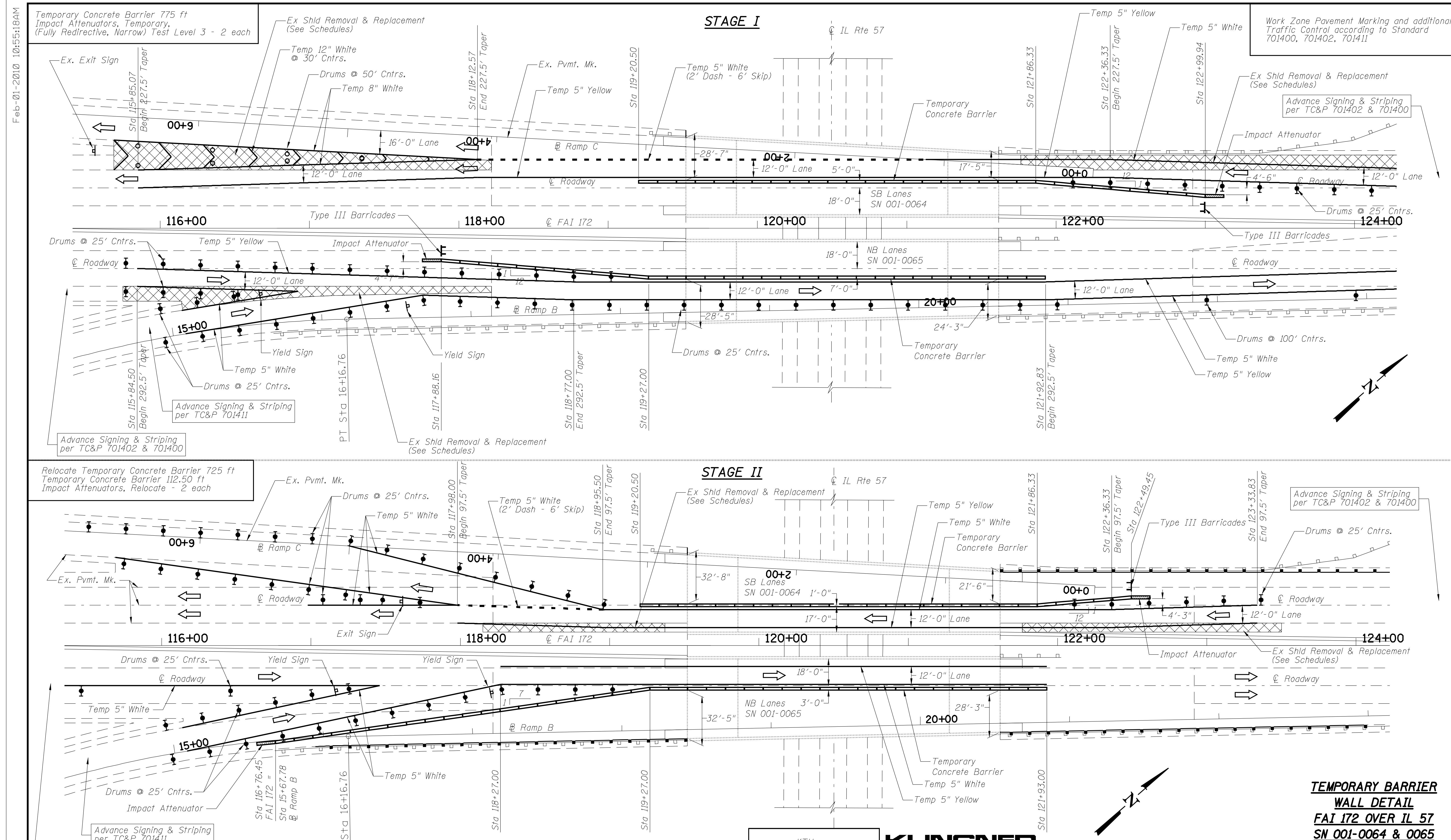
STATE OF ILLINOIS DESIGN FIRM # 1842738

GENERAL PLAN & ELEVATION
FAI 172 OVER IL RTE 57
SN 001-0064 & 0065

	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
SHEET NO. 1	172	1-3HB	ADAMS	165	102
17 SHEETS			CONTRACT NO. 72A09		
	FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

Klingner & Associates P.C.



TEMPORARY BARRIER WALL DETAIL
FAI 172 OVER IL 57
SN 001-0064 & 0065

DESIGNED	KTH
CHECKED	ADL
DRAWN	KTH
CHECKED	ADL

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STATE OF ILLINOIS DESIGN FIRM # 1842738

SHEET NO. 2 / 17 SHEETS	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	172	1-3HB	ADAMS	165	103
			CONTRACT NO. 72A09		
	FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

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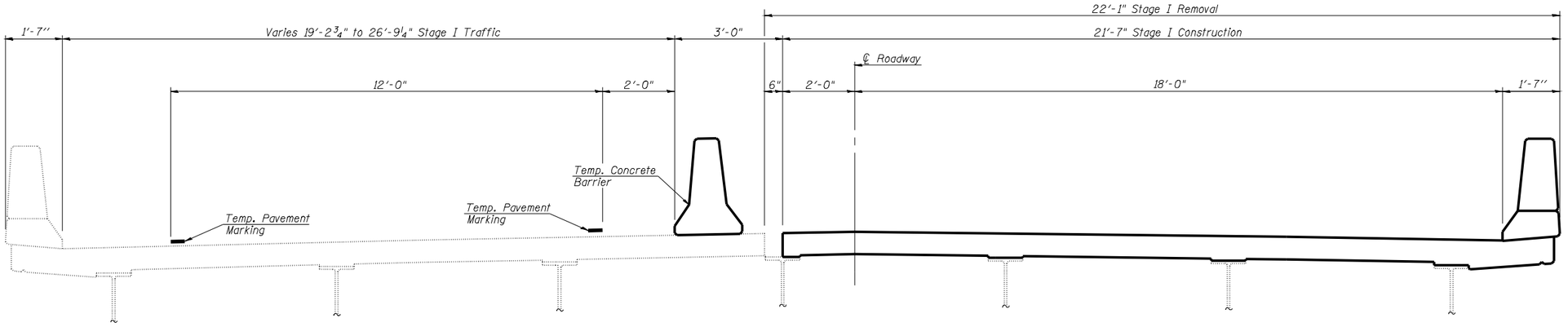
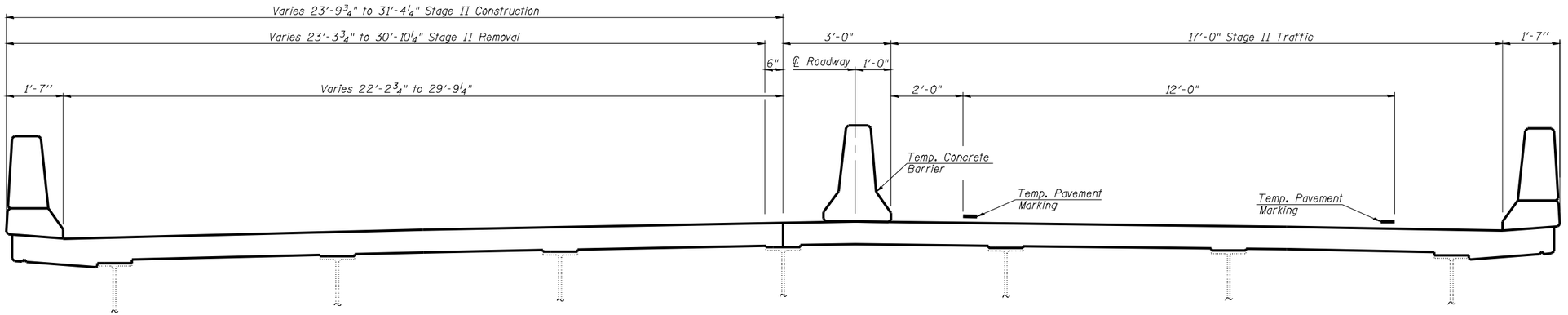


STAGE I CONSTRUCTION

(Looking East SN 001-0064)



STAGE II CONSTRUCTION

(Looking East SN 001-0064)

DESIGNED	KTH
CHECKED	ADL
DRAWN	KTH
CHECKED	ADL

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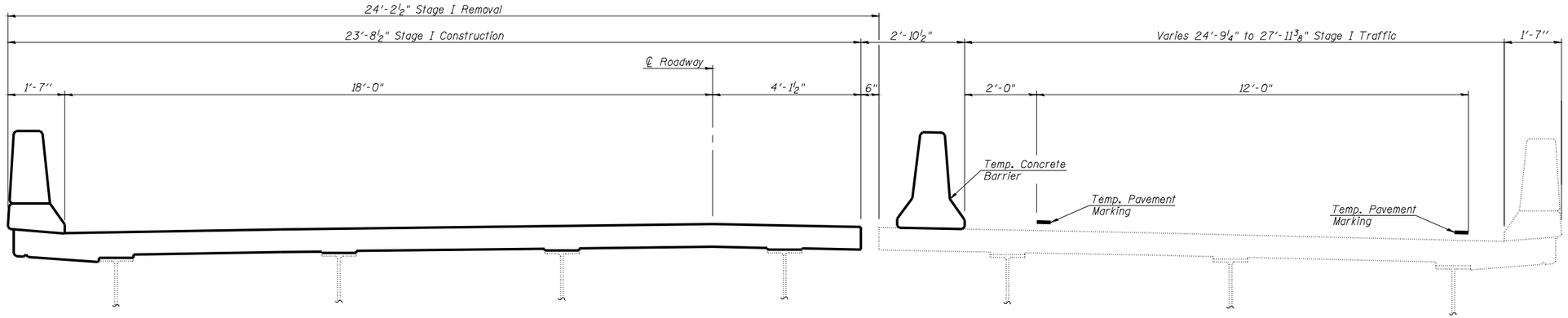
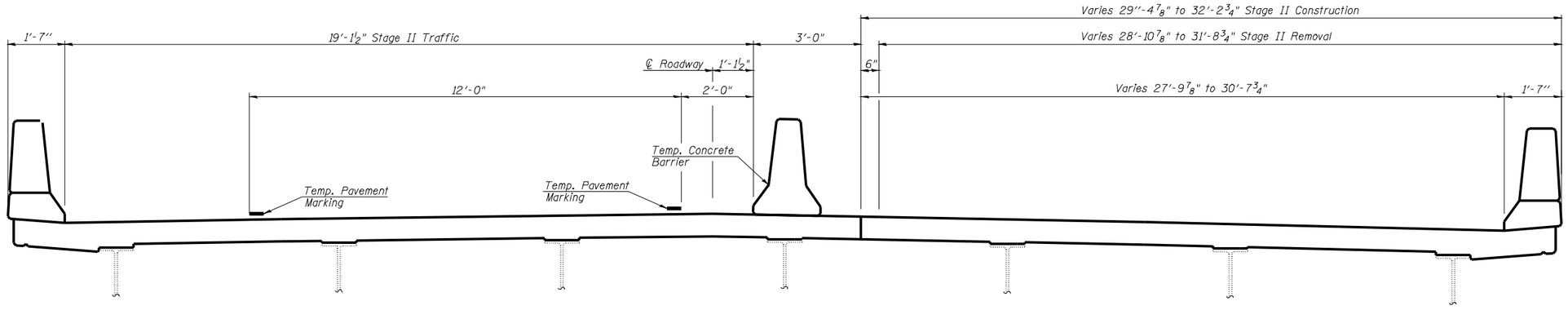
STAGING
FAI 172 OVER IL 57
SN 001-0064 & 0065

SHEET NO. 3	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
17 SHEETS	172	1-3HB	ADAMS	165	104
			CONTRACT NO. 72A09		
	FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



STAGE I CONSTRUCTION

(Looking East SN 001-0065)



STAGE II CONSTRUCTION

(Looking East SN 001-0065)

DESIGNED	KTH
CHECKED	ADL
DRAWN	KTH
CHECKED	ADL

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STAGING
FAI 172 OVER IL 57
SN 001-0064 & 0065

SHEET NO. 4	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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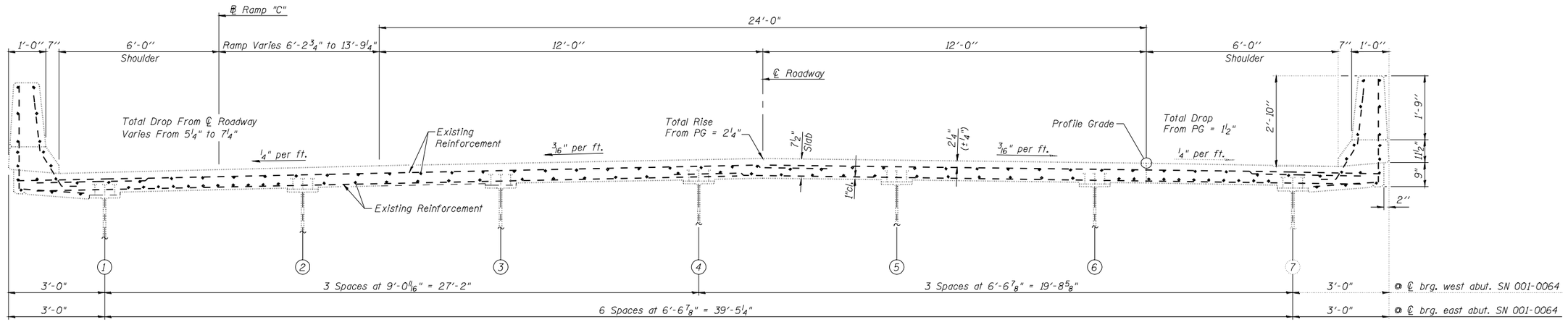
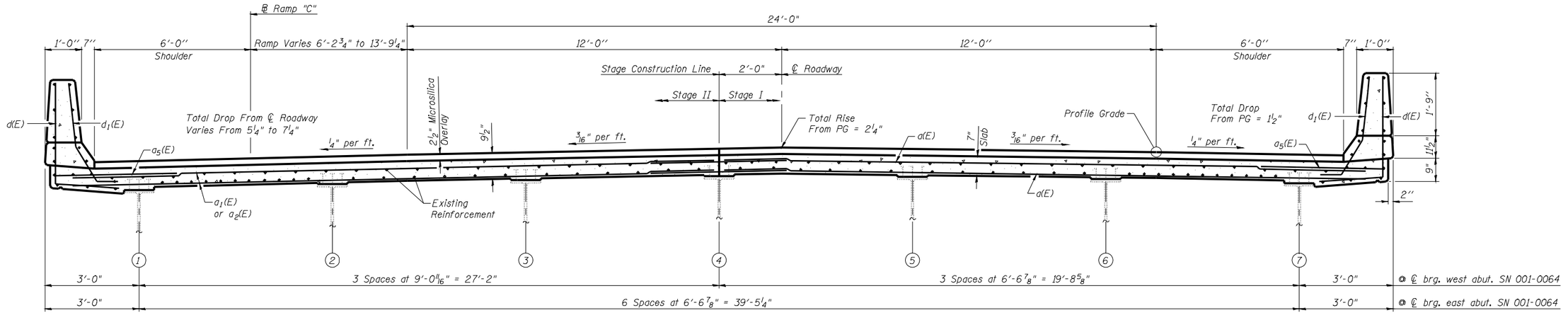
			CONTRACT NO. 72A09		
	FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



EXISTING CROSS SECTION

(Looking East SN 001-0064)

Note:
The longitudinal reinforcement bars in the area of slab, curb, and parapet removal should remain in place and should be cleaned and incorporated into the new construction.



CROSS SECTION

(Looking East SN 001-0064)

SUPERSTRUCTURE DETAILS
FAI 172 OVER IL 57
SN 001-0064 & 0065

DESIGNED	KTH
CHECKED	ADL
DRAWN	KTH
CHECKED	ADL

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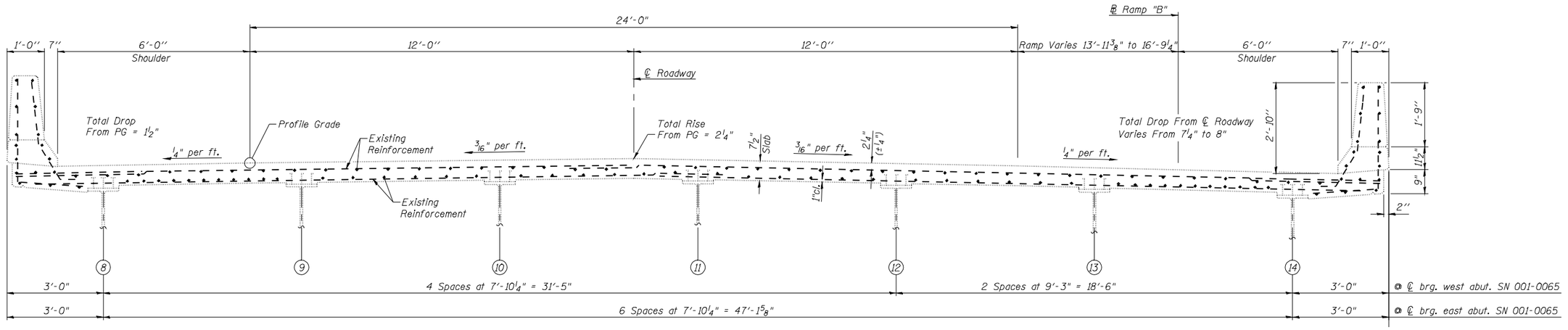
SN 001-0064 & 0065

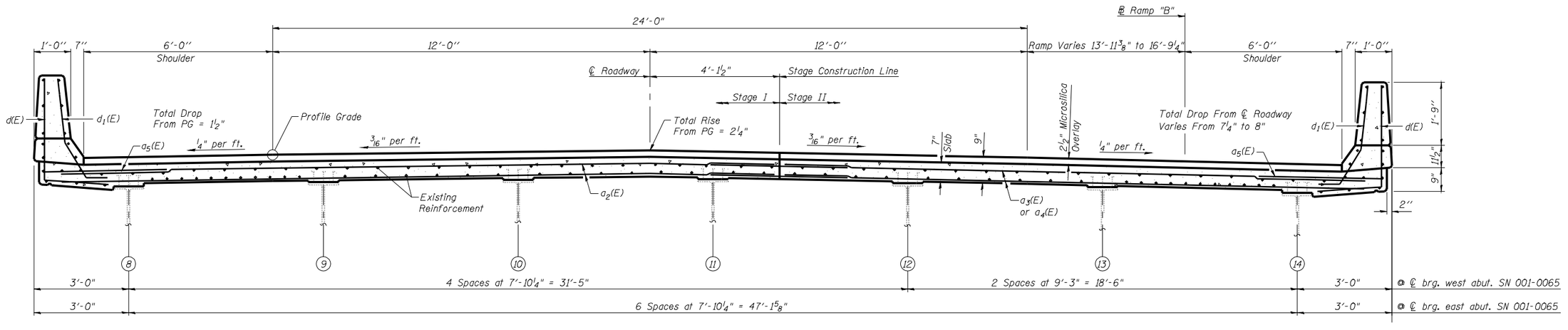
SHEET NO. 5	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
17 SHEETS	172	1-3HB	ADAMS	165	106
			CONTRACT NO. 72A09		
	FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



EXISTING CROSS SECTION

(Looking East SN 001-0065)

Note:
The longitudinal reinforcement bars in the area of slab, curb, and parapet removal should remain in place and should be cleaned and incorporated into the new construction.



CROSS SECTION

(Looking East SN 001-0065)

SUPERSTRUCTURE DETAILS
FAI 172 OVER IL 57
SN 001-0064 & 0065

DESIGNED	KTH
CHECKED	ADL
DRAWN	KTH
CHECKED	ADL

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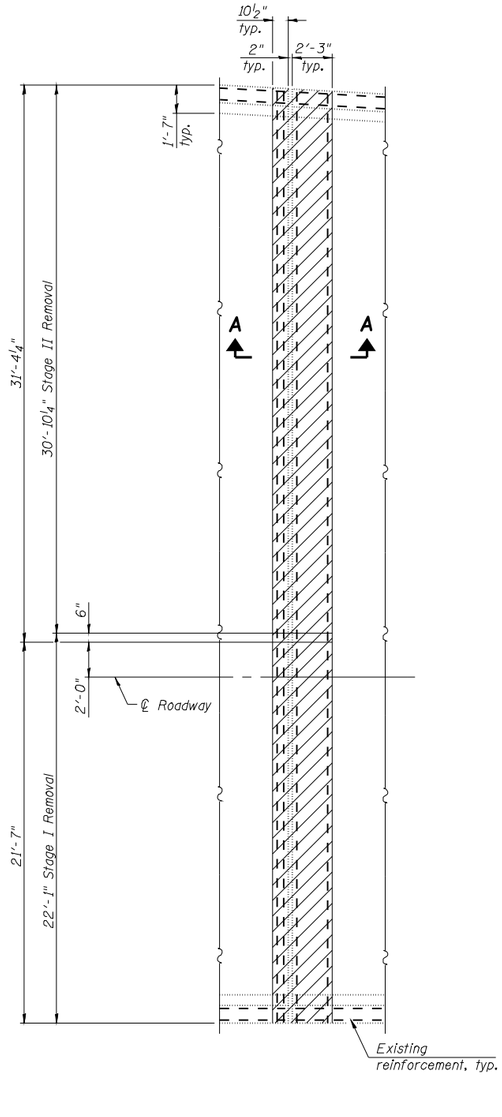
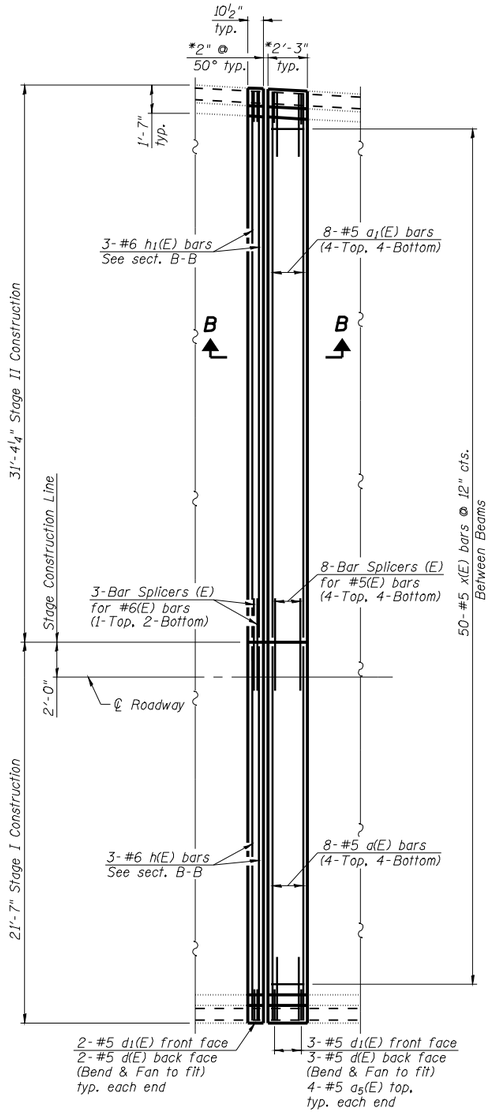
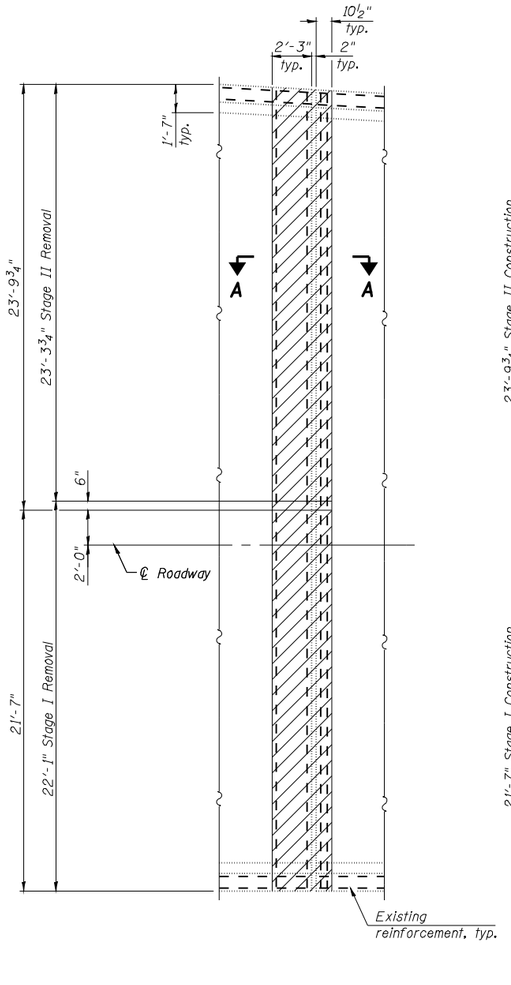
SHEET NO. 6	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
17 SHEETS	172	1-3HB	ADAMS	165	107
			CONTRACT NO. 72A09		
	FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

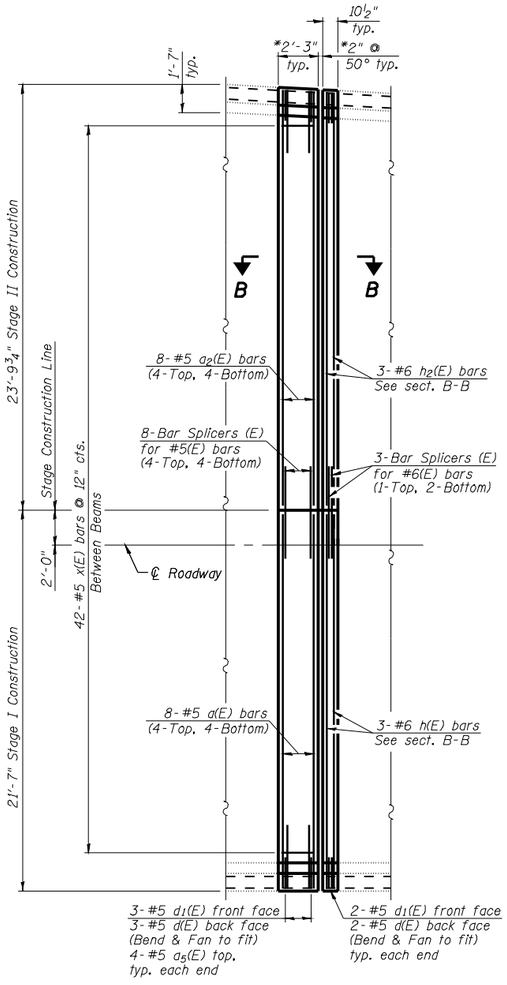
Feb-01-2010 10:55:32AM

Notes:
Hatched areas indicate concrete removal.
For Sections A-A & B-B, bar details & Bill of Material see sheet No. 10 of 17.









PARTIAL REMOVAL PLAN
(West Abutment SN 001-0064)

PARTIAL PROPOSED PLAN
(West Abutment SN 001-0064)

PARTIAL REMOVAL PLAN
(East Abutment SN 001-0064)

PARTIAL PROPOSED PLAN
(East Abutment SN 001-0064)

N

DESIGNED	KTH
CHECKED	ADL
DRAWN	KTH
CHECKED	ADL

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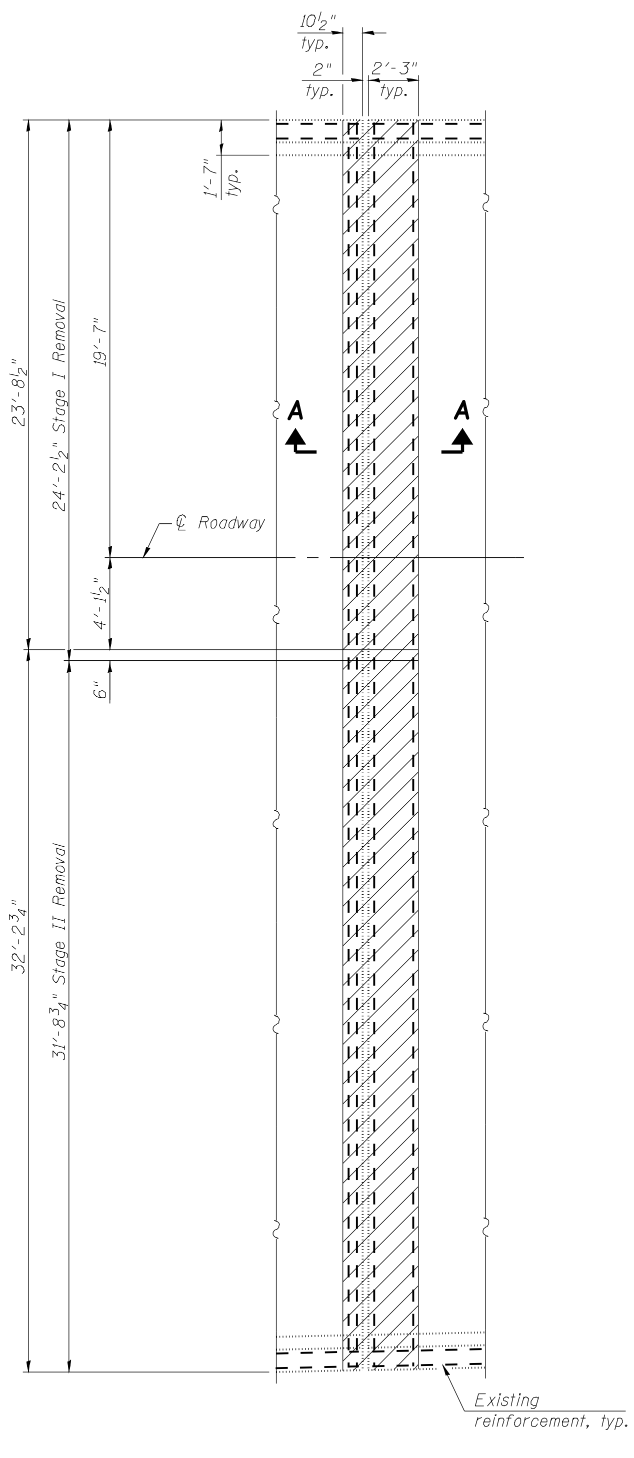
SUPERSTRUCTURE DETAILS
FAI 172 OVER IL 57
SN 001-0064 & 0065

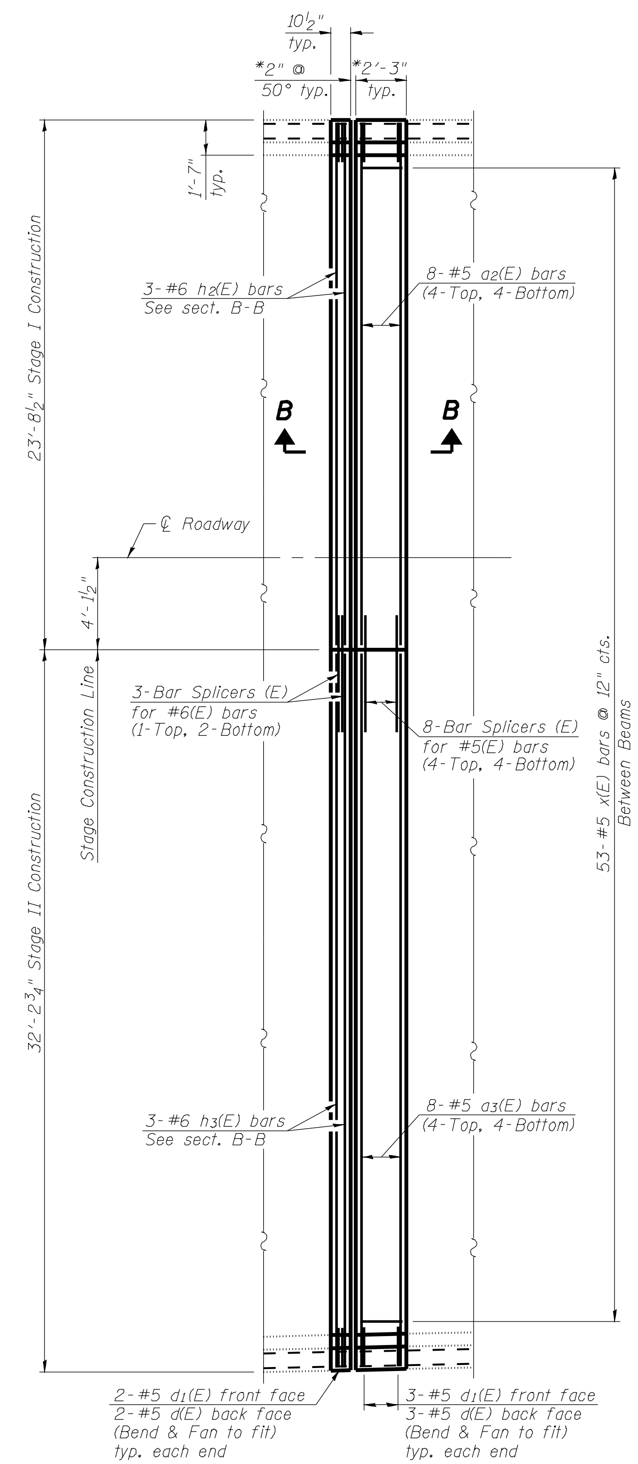
SHEET NO. 7	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
17 SHEETS	172	1-3HB	ADAMS	165	108
			CONTRACT NO. 72A09		
	FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

$FILE$

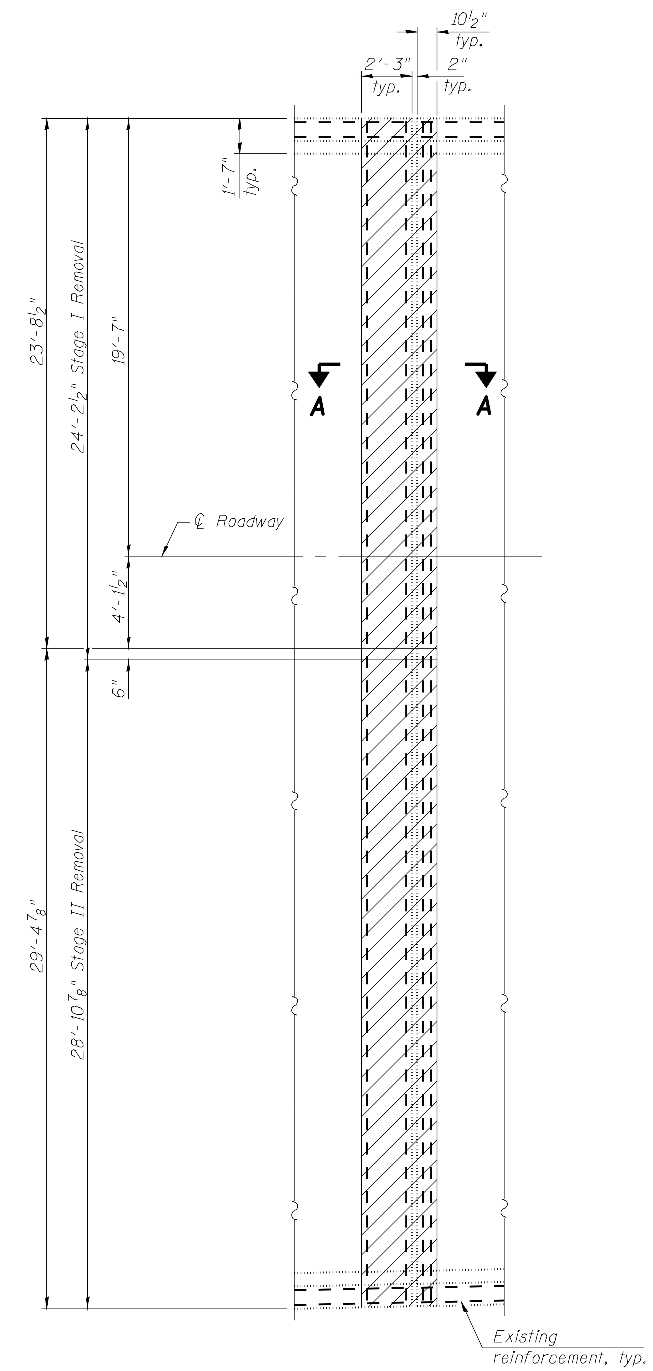
Notes:
Hatched areas indicate concrete removal.
For Sections A-A & B-B, bar details & Bill of Material see sheet No. 10 of 17.



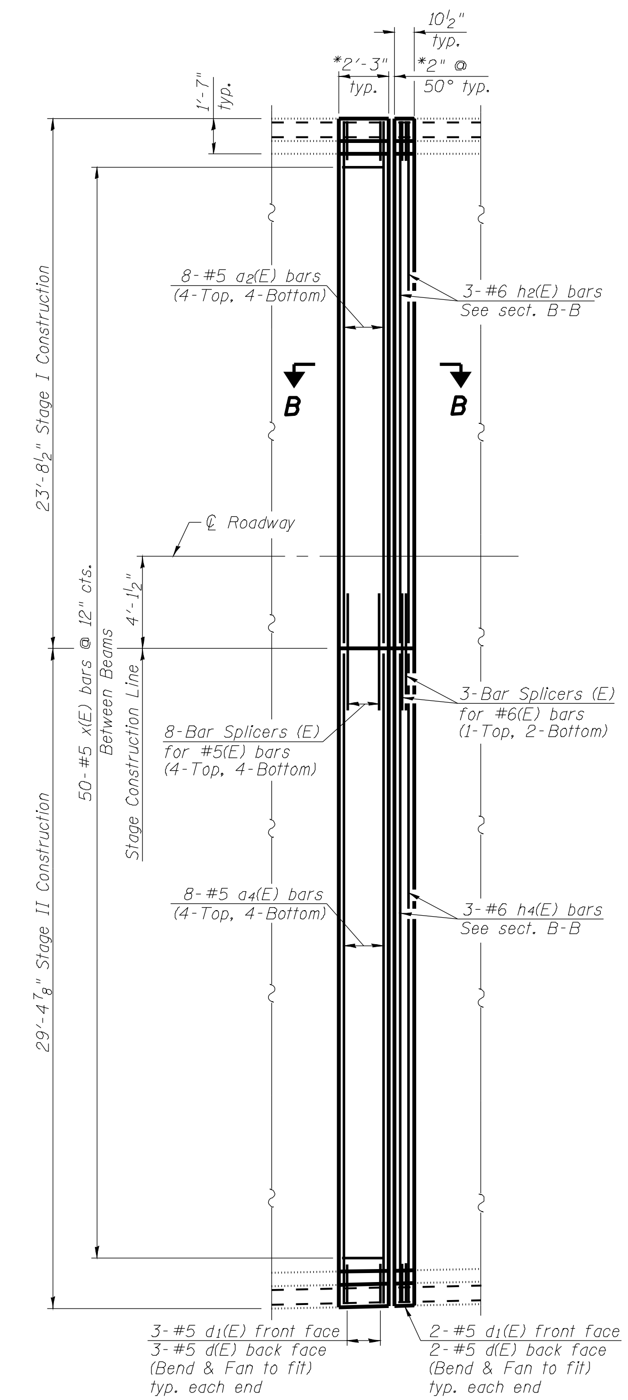
PARTIAL REMOVAL PLAN
(West Abutment SN 001-0065)



PARTIAL PROPOSED PLAN
(West Abutment SN 001-0065)



PARTIAL REMOVAL PLAN
(East Abutment SN 001-0065)



PARTIAL PROPOSED PLAN
(East Abutment SN 001-0065)

SUPERSTRUCTURE DETAILS
FAI 172 OVER IL 57
SN 001-0064 & 0065

DESIGNED	KTH
CHECKED	ADL
DRAWN	KTH
CHECKED	ADL

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SHEET NO. 8	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
17 SHEETS	172	1-3HB	ADAMS	165	109
			CONTRACT NO. 72A09		
	FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

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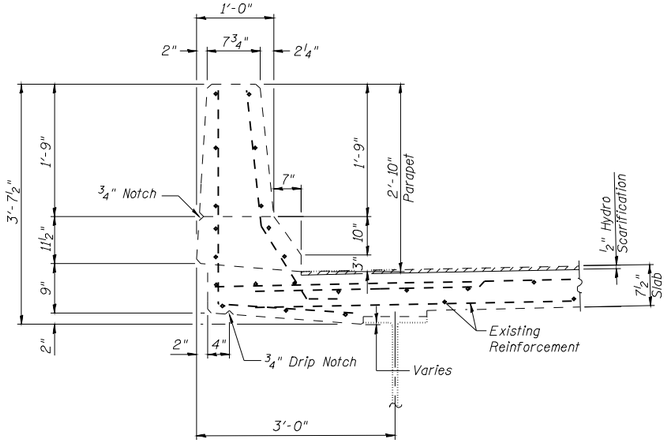
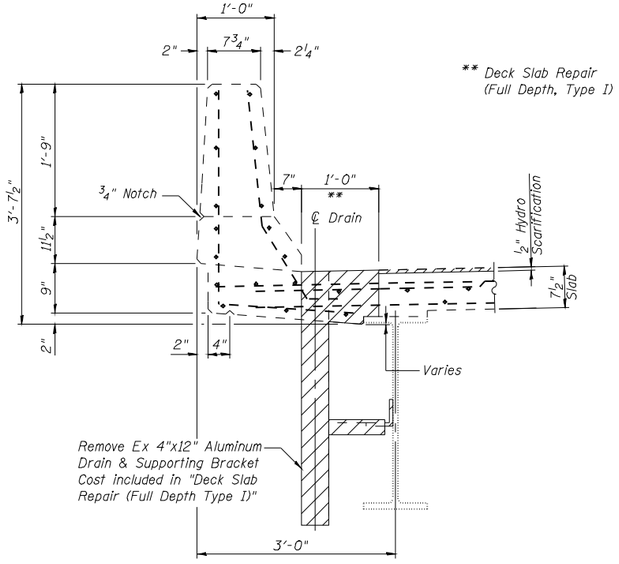
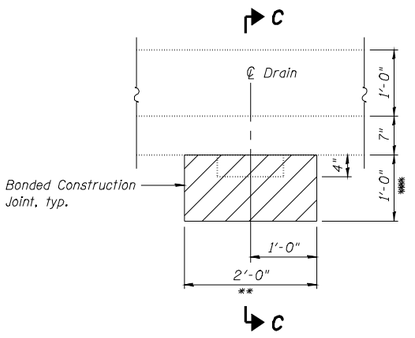


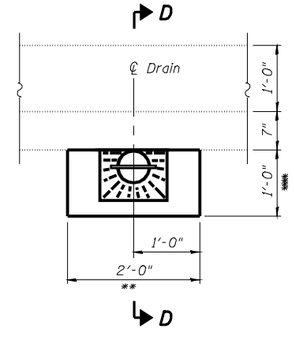
SECTION THRU EXISTING PARAPET



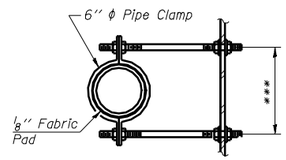
SECTION C-C



EXISTING DECK DRAIN REMOVAL

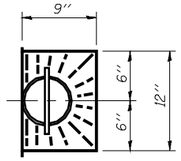


PROPOSED DECK DRAIN

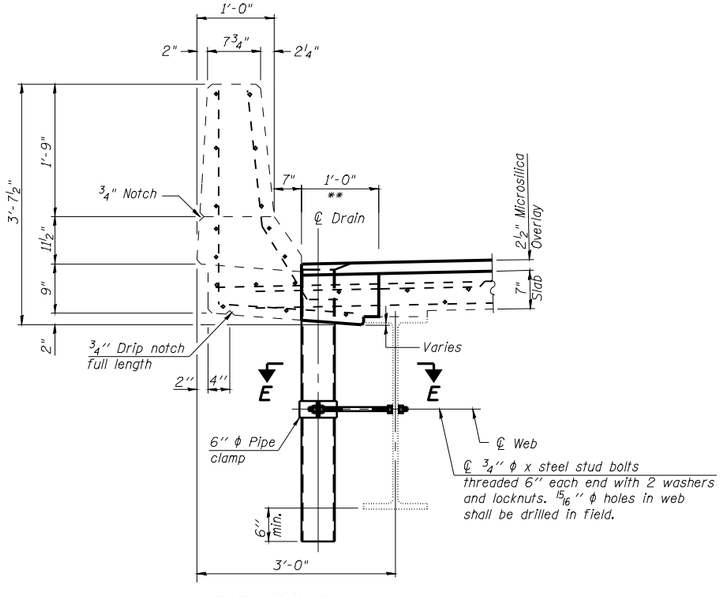


SECTION E-E

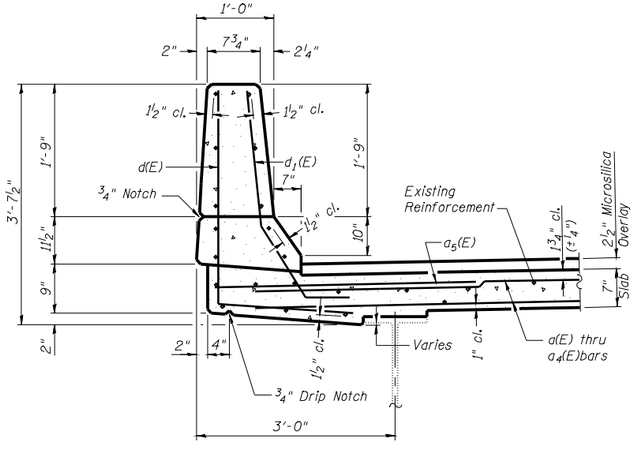
***Dimension as required by Pipe Clamp



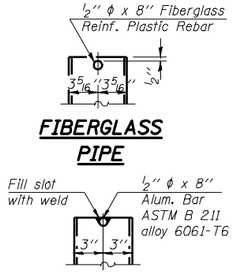
TOP PLAN



SECTION D-D

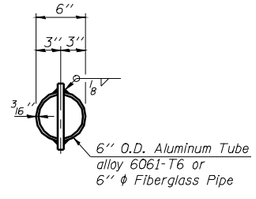


SECTION THRU PARAPET



FIBERGLASS PIPE

ALUMINUM TUBE



TOP PLAN

(Showing Aluminum Tube)

Note:
Fiberglass pipe shall conform to ASTM D 2996, with short-time rupture strength hoop tensile stress of 30,000 p.s.i. minimum.

Notes:
Hatched areas indicate concrete sections to be removed and replaced. Perimeters of concrete removal areas shall be saw cut 3/4" prior to the removal of concrete.
Existing reinforcement bars shown are to be cleaned and incorporated into the new construction.

DESIGNED	KTH
CHECKED	ADL
DRAWN	KTH
CHECKED	ADL

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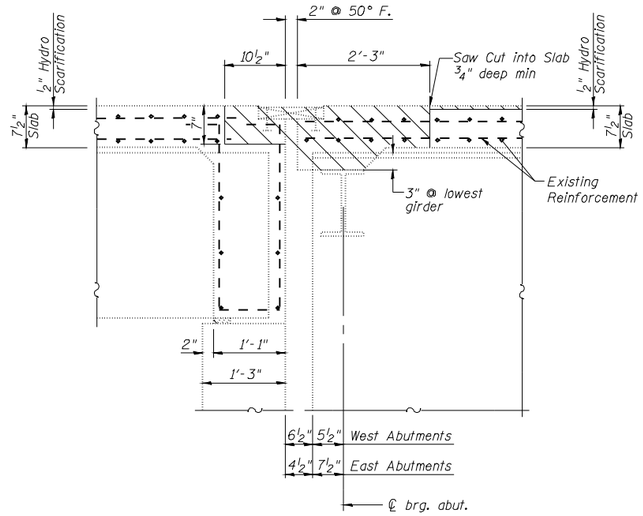
SUPERSTRUCTURE DETAILS
FAI 172 OVER IL 57
SN 001-0064 & 0065

SHEET NO. 9	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
17 SHEETS	172	1-3HB	ADAMS	165	110
			CONTRACT NO. 72A09		
	FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

$FILE$

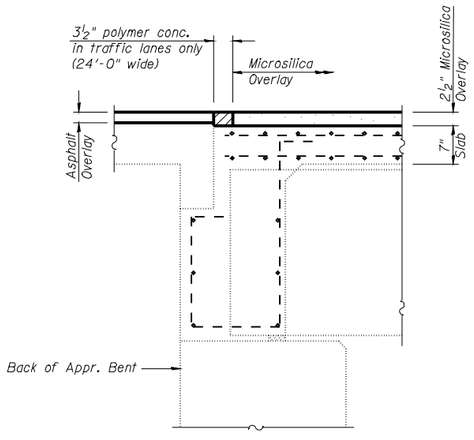
Notes:
Hatched areas indicate concrete sections to be removed and replaced. Perimeters of concrete removal areas shall be saw cut $\frac{3}{4}$" prior to the removal of concrete.
Existing reinforcement bars shown are to be cleaned and incorporated into the new construction.



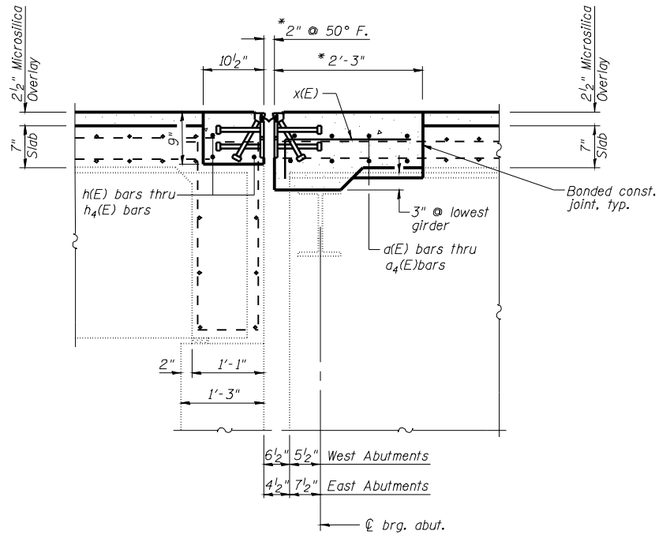
SECTION A-A

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a(E)	16	#5	20'-6"	
a_1(E)	8	#5	30'-6"	
a_2(E)	24	#5	22'-9"	
a_3(E)	8	#5	31'-3"	
a_4(E)	8	#5	28'-6"	
a_5(E)	32	#5	4'-0"	
d(E)	40	#5	5'-2"	
d_1(E)	40	#5	3'-11"	
h(E)	6	#6	20'-6"	
h_1(E)	3	#6	30'-6"	
h_2(E)	9	#6	22'-9"	
h_3(E)	3	#6	31'-3"	
h_4(E)	3	#6	28'-6"	
x(E)	195	#5	2'-8"	
Reinforcement Bars, Epoxy Coated			Pound	3620
Bar Splicers			Each	44
Concrete Superstructure			Cu. Yds.	23.9

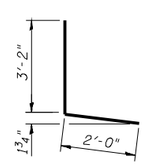


SECTION AT APPROACH BENT

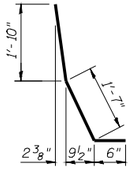


SECTION B-B

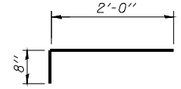
* Dimensions are based on a Rolled Rail Strip Seal Joint. If the Contractor elects to use the Welded Rail Strip Seal Joint, deck dimensions may require adjustments to satisfy the details on Sheet No. 11 of 17.



BAR d(E)



BAR d_1(E)



BAR x(E)

DESIGNED	KTH
CHECKED	ADL
DRAWN	KTH
CHECKED	ADL

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STATE OF ILLINOIS DESIGN FIRM # 1842738

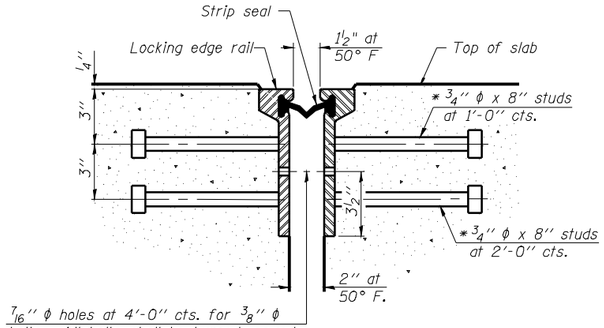
SUPERSTRUCTURE DETAILS
FAI 172 OVER IL 57
SN 001-0064 & 0065

SHEET NO. 10	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
17 SHEETS	172	1-3HB	ADAMS	165	111
			CONTRACT NO. 72A09		
	FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

Feb-01-2010 10:55:43AM

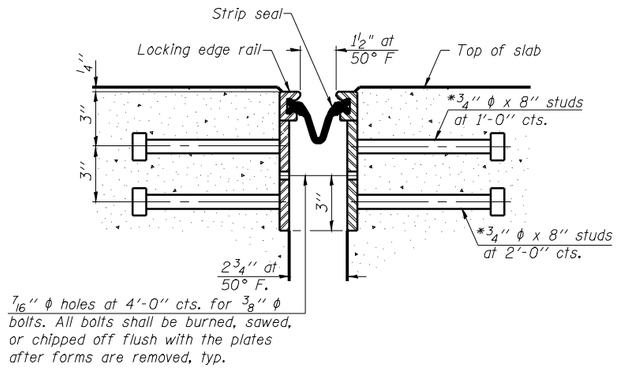
* Granular or solid flux filled headed studs conforming to Article 1006.32 of the Std. Specs., automatically end welded.

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



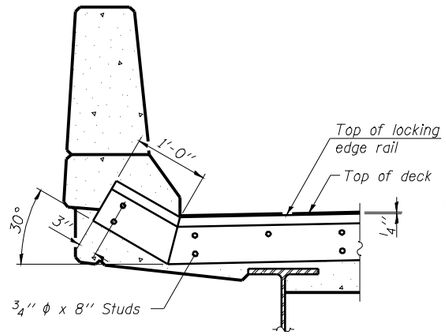
7/16" ϕ holes at 4'-0" cts. for ⅜" ϕ bolts. All bolts shall be burned, sawed, or chipped off flush with the plates after forms are removed, typ.

SECTION THRU ROLLED RAIL JOINT

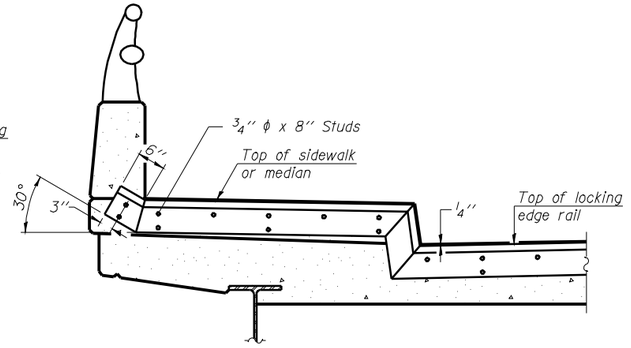


7/16" ϕ holes at 4'-0" cts. for ⅜" ϕ bolts. All bolts shall be burned, sawed, or chipped off flush with the plates after forms are removed, typ.

SECTION THRU WELDED RAIL JOINT

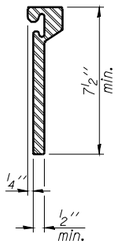


AT PARAPET

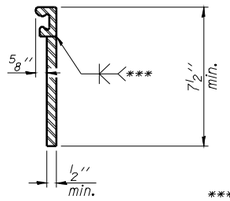


AT SIDEWALK OR MEDIAN

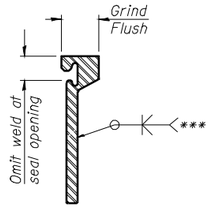
Shorter plates with a single row of studs at 12" cts. may be necessary on medians which are shallower than 9". See manufacturer's recommendation.



ROLLED EXTRUDED RAIL



WELDED RAIL



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

LOCKING EDGE RAIL SPLICE

The inside of the locking edge rail groove shall be free of weld residue.

Rolled rail shown, welded rail similar.

LOCKING EDGE RAILS

TYPICAL END TREATMENTS

Notes:

The strip seal shall be made continuous and shall have a minimum thickness of ¼". The configuration of the strip seal shall match the configuration of the Locking Edge Rails. Open or "webbed" strip seal gland configurations are not permitted. The gland shall be sized for a maximum rated movement of 4 inches.

The Locking Edge Rails depicted are conceptual only, except for the minimum dimensions shown. The actual configuration of the Locking Edge Rails and matching strip seal may vary from manufacturer to manufacturer. Flanged edge rails will not be allowed. Locking Edge Rails may be spliced at slope discontinuities.

The manufacturer's recommended installation methods shall be followed.

The joint opening and deck dimensions detailed on the superstructure are based on a rolled rail expansion joint. If the Contractor elects to use the welded rail expansion joint, the opening and deck dimensions shall be modified according to the dimensions detailed on this sheet. Required modifications shall be made at no additional cost to the State.

All steel components shall be galvanized after fabrication according to Article 520.03 of the Standard Specifications.

Maximum space between rail segments at stage lines shall be 3/16", sealed with a suitable sealant.

BILL OF MATERIAL

Item	Unit	Total
Preformed Joint Strip Seal	Foot	203.0

DESIGNED	KTH
CHECKED	ADL
DRAWN	KTH
CHECKED	ADL

EJ-SSJ

11-1-09

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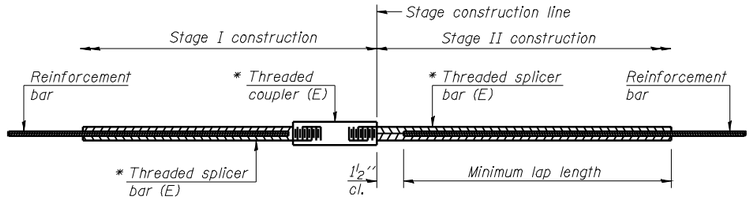
PREFORMED JOINT STRIP SEAL
STRUCTURE NO. 001-0064 & 0065

SHEET NO. 11	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
17 SHEETS	172	1-3HB	ADAMS	165	112
			CONTRACT NO. 72A09		
	FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

Klingner & Associates P.C.

$FILE$



STANDARD BAR SPLICER ASSEMBLY

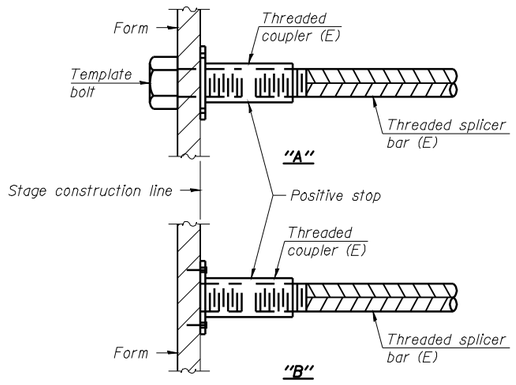
Minimum Lap Lengths				
Bar size to be spliced	Table 1	Table 2	Table 3	Table 4
3, 4	1'-5"	1'-11"	2'-1"	2'-4"
5	1'-9"	2'-5"	2'-7"	2'-11"
6	2'-1"	2'-11"	3'-1"	3'-6"
7	2'-9"	3'-10"	4'-2"	4'-8"
8	3'-8"	5'-1"	5'-5"	6'-2"
9	4'-7"	6'-5"	6'-10"	7'-9"

Table 1: Black bar, 0.8 Class C
Table 2: Black bar, Top bar lap, 0.8 Class C
Table 3: Epoxy bar, 0.8 Class C
Table 4: Epoxy bar, Top bar lap, 0.8 Class C

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

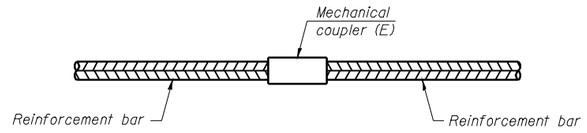
* Epoxy not required on Bar Splicer Assembly components used in conjunction with black bars.

Location	Bar size	No. assemblies required	Table for minimum lap length
Deck	#5	32	Table 3
Abutment	#6	12	Table 3



INSTALLATION AND SETTING METHODS

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



STANDARD MECHANICAL SPLICER

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 special provision for Mechanical Splicers.

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

DESIGNED	KTH
CHECKED	ADL
DRAWN	KTH
CHECKED	ADL

BSD-1

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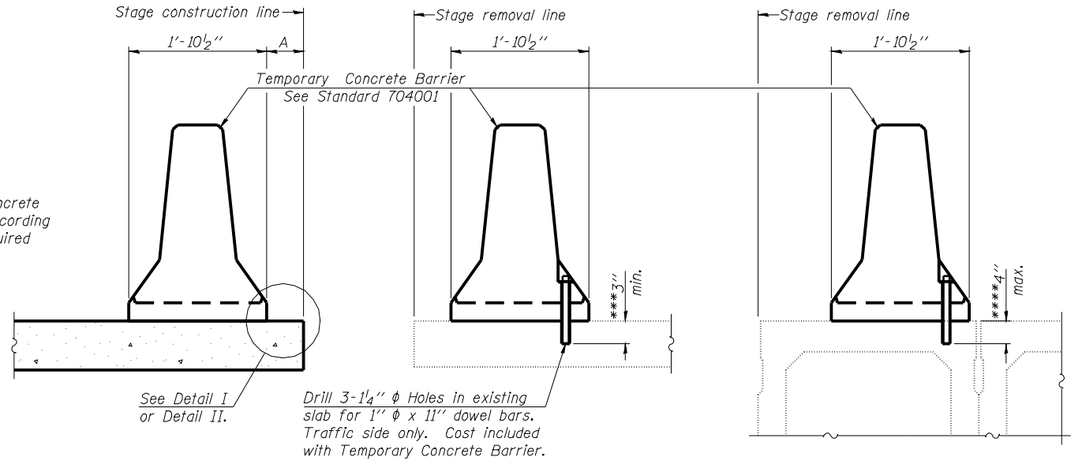
BAR SPLICER ASSEMBLY AND MECHANICAL SPLICER DETAILS STRUCTURE NO. 001-0064 & 0065

SHEET NO. 12	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
17 SHEETS	172	1-3HB	ADAMS	165	113
			CONTRACT NO. 72A09		
	FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

When "A" is 3'-6" or less, the temporary concrete barrier shall be anchored to the new slab according to Detail I or Detail II. No anchorage is required when "A" is greater than 3'-6".



NEW SLAB | **EXISTING SLAB** | **EXISTING DECK BEAM**

NOTES

Detail I - With Bar Splicer or Couplers:
Connect one (1) 1"x7"x10" steel ℄ to the top layer of couplers with 2-⅝" ϕ bolts screwed to coupler at approximate ℄ of each barrier panel.

Detail II - With Extended Reinforcement Bars:
Connect one (1) 1"x7"x 10" steel ℄ to the concrete slab or concrete wearing surface with 2-⅝" ϕ Expansion Anchors or cast in place inserts spaced between the top layer of reinforcement at approximate ℄ of each barrier panel.

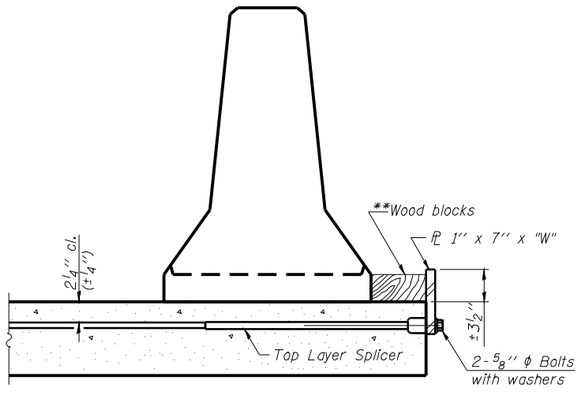
Cost of anchorage is included with Temporary Concrete Barrier.

The 1" x 7" x 10" plate shall not be removed until stage II construction forms and all reinforcement bars are in place and the concrete is ready to be placed.

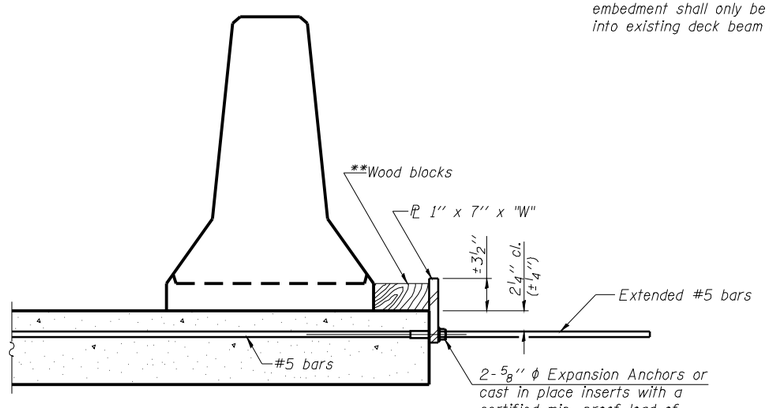
SECTIONS THRU SLAB OR DECK BEAM

*** Dimension shown is minimum required embedment into concrete. If hot-mix asphalt wearing surface is present, minimum embedment shall be in addition to wearing surface depth.

**** If existing deck beam is to remain in place after stage construction, embedment shall only be into wearing surface and not into existing deck beam concrete.



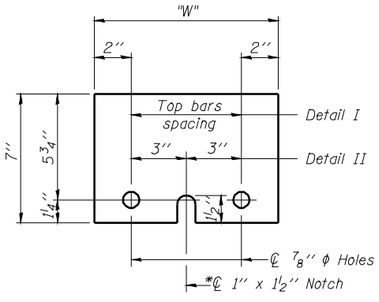
DETAIL I



DETAIL II

** Wood blocks may be omitted when required to provide minimum stage traffic lane width. When the wood blocks are omitted, the concrete barrier shall be in direct contact with the steel retainer plate.

"W" = Top bars spacing + 4"



STEEL RETAINER ℄ 1" x 7" x 10"

* Required only with Detail II

TEMPORARY CONCRETE BARRIER FOR STAGE CONSTRUCTION STRUCTURE NO. 001-0064 & 0065

DESIGNED	KTH
CHECKED	ADL
DRAWN	KTH
CHECKED	ADL

R-27

11-1-09

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SHEET NO. 13	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
17 SHEETS	172	1-3HB	ADAMS	165	114
			CONTRACT NO. 72A09		
	FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

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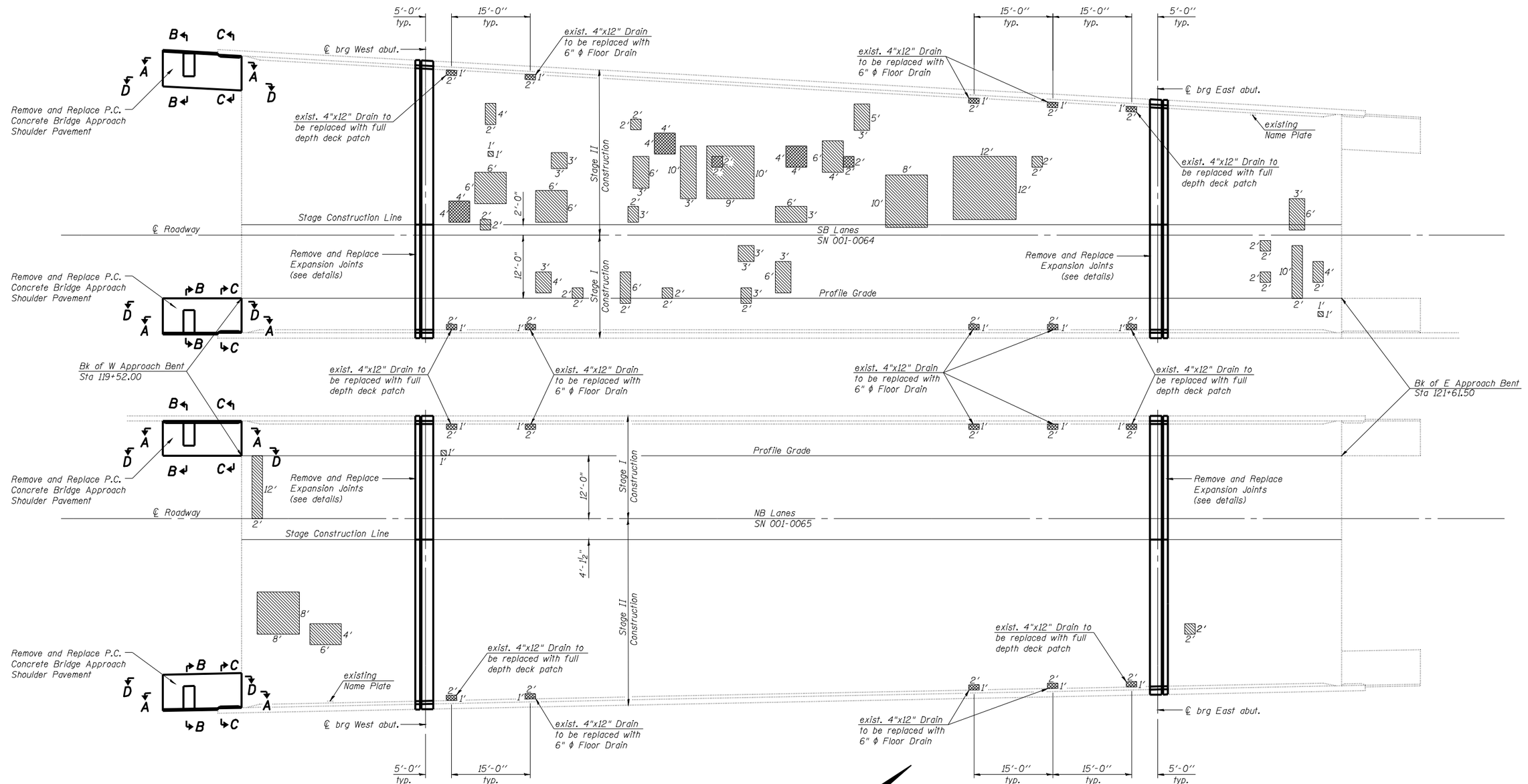

PLAN

Deck Slab Repair (Partial Depth) - 84.9 SQ. YD.
Note: Partial Depth Repair shall be achieved by bridge deck hydro-scarification and filled with microsilica concrete overlay. Cost included in "BRIDGE DECK HYDRO-SCARIFICATION ½" " and "BRIDGE DECK MICROSILICA CONCRETE OVERLAY 2½" "

Deck Slab Repair (Full Depth, Type I) - 5.3 SQ. YD.
Deck Slab Repair (Full Depth, Type II) - 5.3 SQ. YD.

DECK PATCHING & CONCRETE BRIDGE APPROACH SHOULDER PAVEMENT FAI 172 OVER IL 57 SN 001-0064 & 0065

DESIGNED	KTH
CHECKED	ADL
DRAWN	KTH
CHECKED	ADL

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SHEET NO. 14	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
17 SHEETS	172	1-3HB	ADAMS	165	115
			CONTRACT NO. 72A09		
	FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

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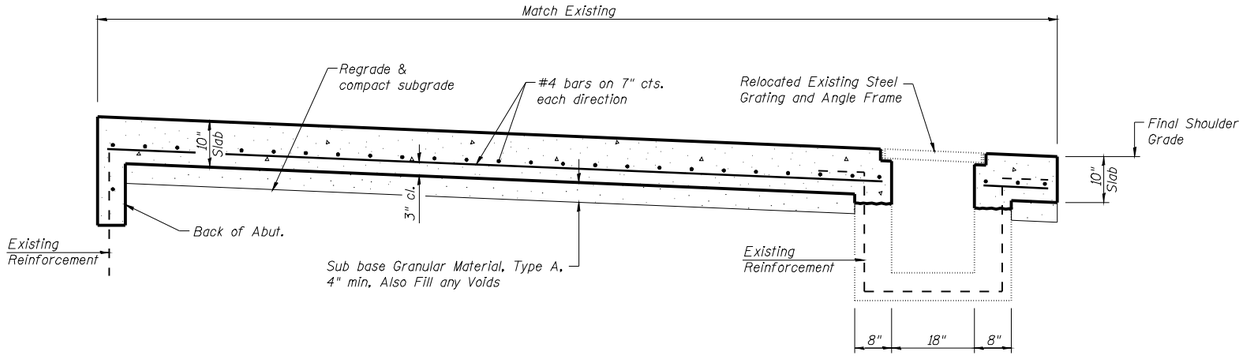
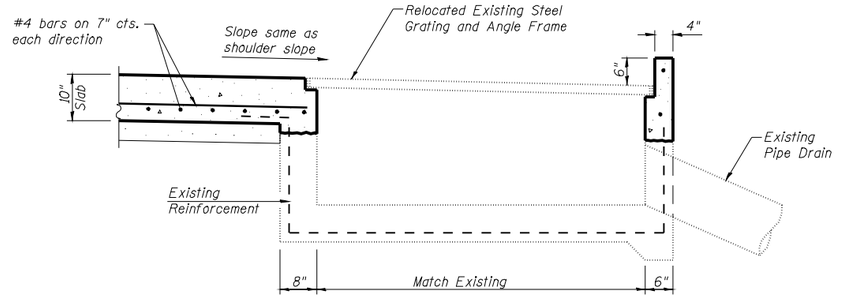
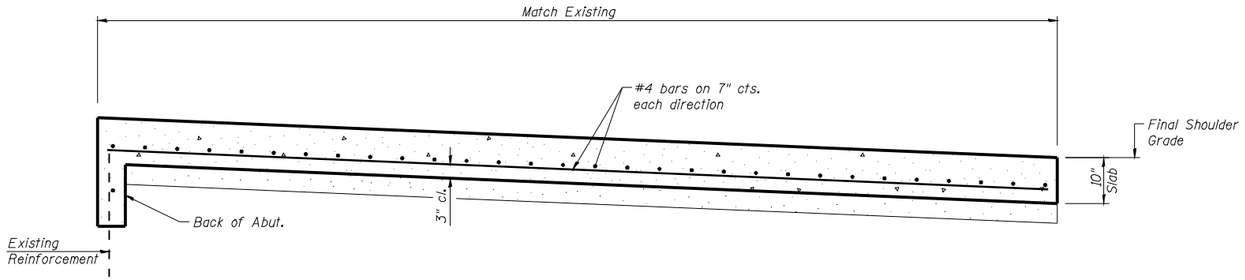


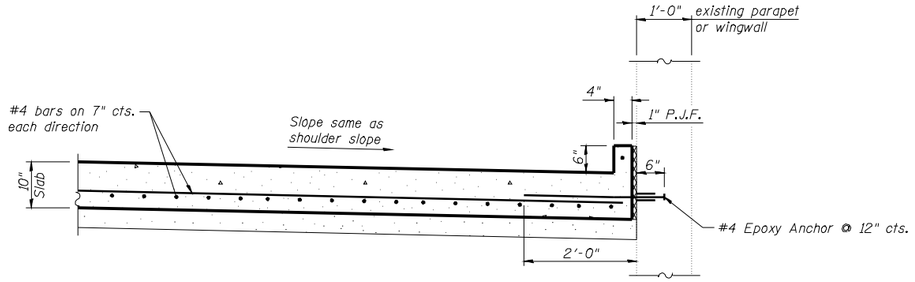
SECTION A-A



SECTION B-B



SECTION D-D



SECTION C-C

NOTES

See plans for location of bridge approach shoulder pavement.

The lengths of #4 bars used in the approach shoulder pavement shall be as required to accommodate the length, width and skew of the slab.

Bridge approach shoulder pavement will be measured in place and paid for in square yards as P.C. CONCRETE BRIDGE APPROACH SHOULDER PAVEMENT which shall include the cost of subgrade preparation, Sub base Granular Material, Type A, reinforcement and P.J.F. In computing the area for payment, a deduction will be made for the area displaced by the inside of inlet.

Existing reinforcement bars shown are to be cleaned and incorporated into the new construction.

DESIGNED	KTH
CHECKED	ADL
DRAWN	KTH
CHECKED	ADL

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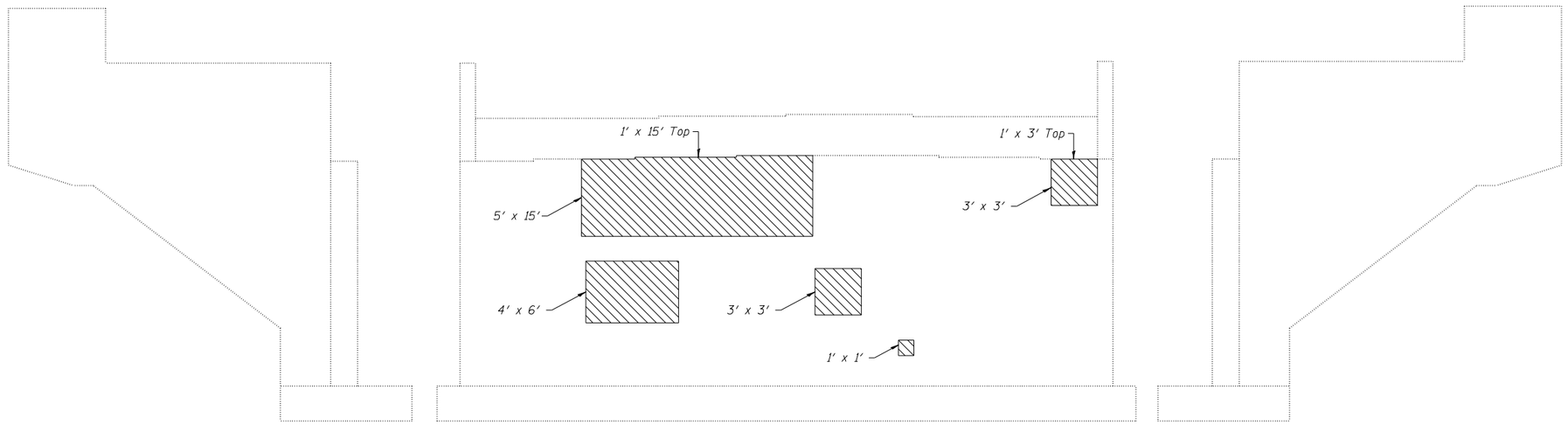
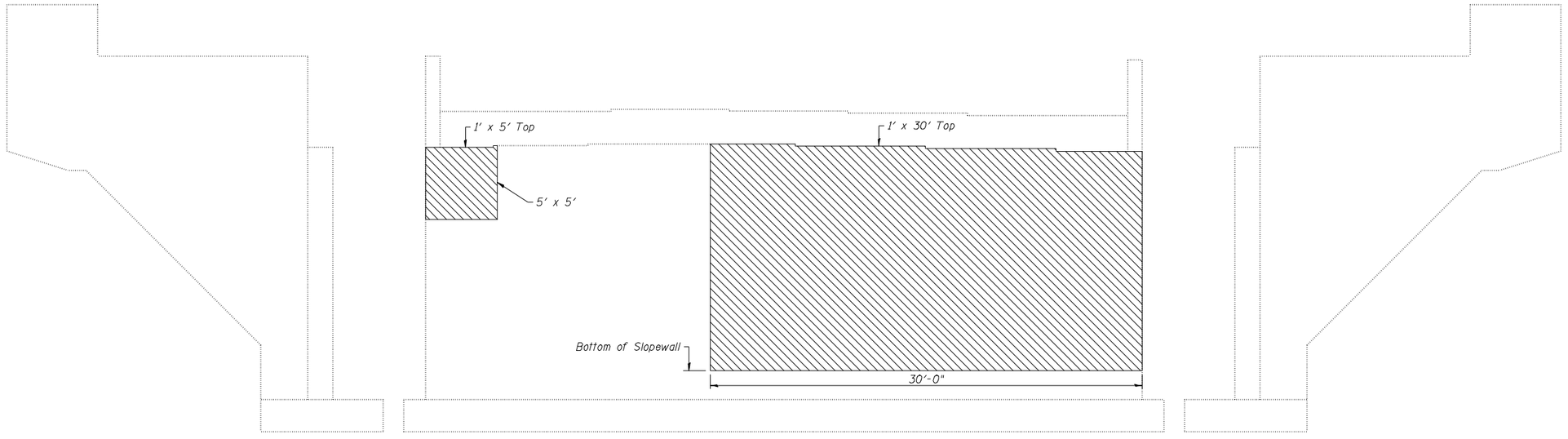
STATE OF ILLINOIS DESIGN FIRM • 1842738

BRIDGE APPROACH SHOULDER PAVEMENT
FAI 172 OVER IL 57
SN 001-0064 & 0065

SHEET NO. 15	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
17 SHEETS	172	1-4B	ADAMS	165	116
			CONTRACT NO. 72A09		
	FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



ABUTMENT ELEVATION
(East Abutment SN 001-0064)



ABUTMENT ELEVATION
(West Abutment SN 001-0064)

Structural Repair of Concrete
(Depth Equal to or Less than 5 Inches) - 661 SQ. FT.

ABUTMENT REPAIR DETAILS
FAI 172 OVER IL 57
SN 001-0064 & 0065

DESIGNED	KTH
CHECKED	ADL
DRAWN	KTH
CHECKED	ADL

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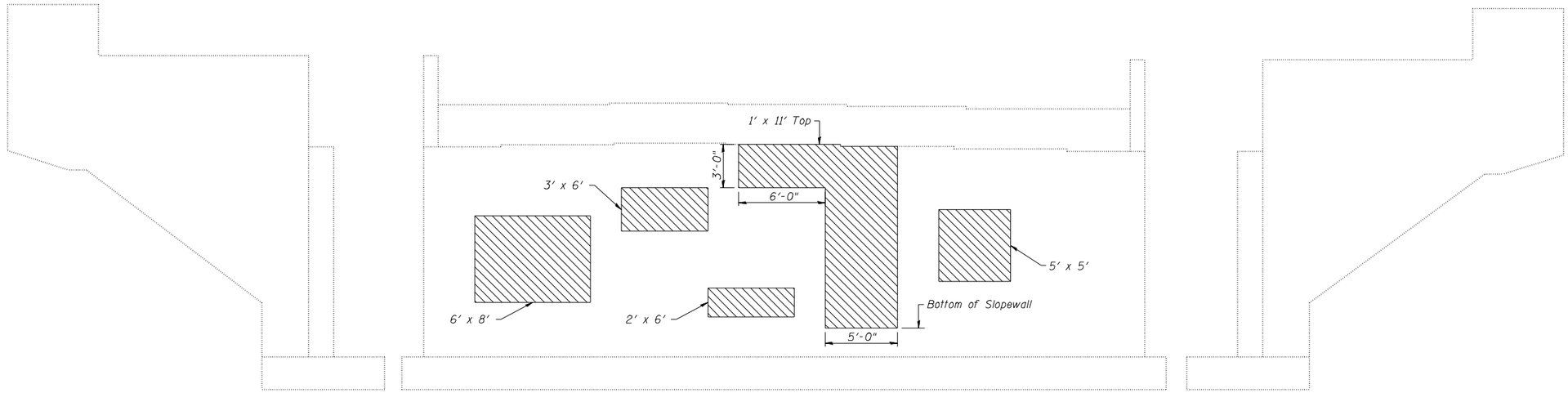
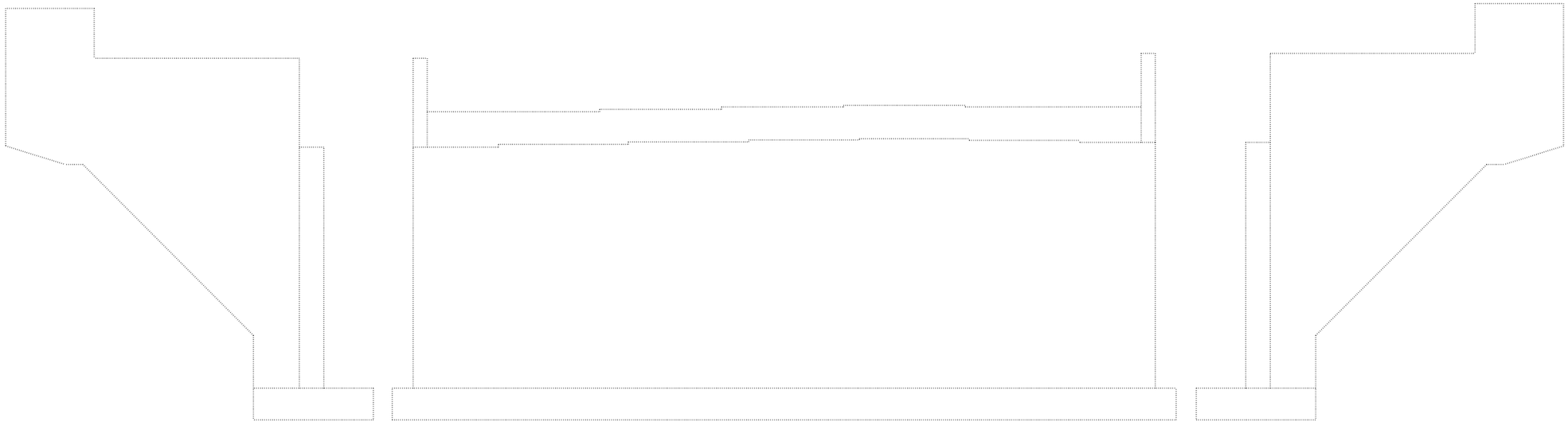
SHEET NO. 16	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
17 SHEETS	172	1-3HB	ADAMS	165	117
			CONTRACT NO. 72A09		
	FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



ABUTMENT ELEVATION
(East Abutment SN 001-0065)



ABUTMENT ELEVATION
(West Abutment SN 001-0065)

Structural Repair of Concrete
(Depth Equal to or Less than 5 Inches) - 195 SQ. FT.

DESIGNED	KTH
CHECKED	ADL
DRAWN	KTH
CHECKED	ADL

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ABUTMENT REPAIR DETAILS
FAI 172 OVER IL 57
SN 001-0064 & 0065

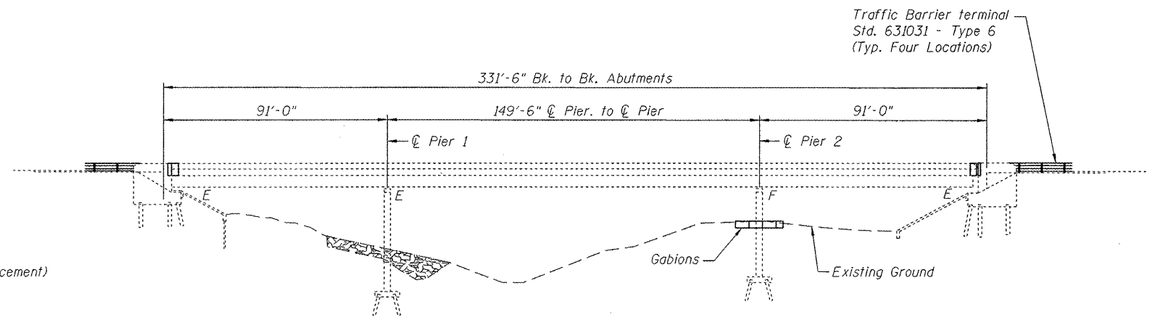
SHEET NO. 17	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
17 SHEETS	172	1-3HB	ADAMS	165	118
			CONTRACT NO. 72A09		
	FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

Existing Structure: SN 001-0055 & SN 001-0056 are dual three span, 54" welded plate girder structures on pile bent abutments and solid piers. The structures were built in 1980 and carry FAI 172 over Burton Creek. Joint rehabilitation was done on the structures in 2001. The structures are 331'-6" long back to back of abutments and 43'-2" wide out to out. Both structures are on a 33 degree left ahead skew.

Structure improvements include removing the existing expansion joints and replacing with strip seals, structural repair of concrete at the abutments and, concrete deck patching, hydro scarification of the deck, placing microsilica overlay, gabion slope protection, replacing existing guardrail, and removing & replacing concrete bridge approach shoulder pavement.

Traffic to be maintained utilizing stage construction.

No salvage



ELEVATION

DESIGN STRESSES

FIELD UNITS

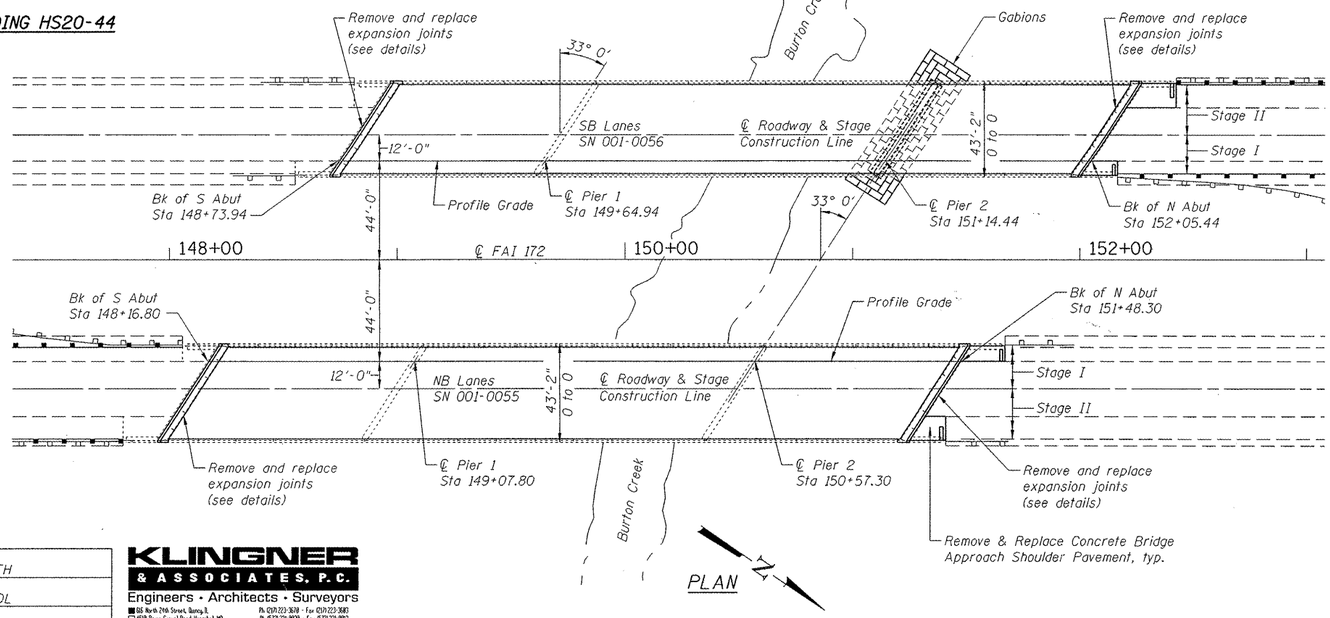
New Construction
f'c = 3,500 psi
fy = 60,000 psi (Reinforcement)

Existing Construction
f'c = 3,500 psi
fy = 60,000 psi (Reinforcement)
fs = 36,000 psi & 50,000 psi
(Structural Steel)

DESIGN SPECIFICATIONS

(New Construction)
2002 AASHTO "Standard Specifications for Highway Bridges"

LOADING HS20-44



PLAN

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

Reinforcement bars designated (E) shall be epoxy coated.

Reinforcement bars shall conform to the requirements of ASTM A 706 grade 60. See special provisions.

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.

Joint openings shall be adjusted according to article 520.04 of the standard specifications when the deck is poured at an ambient temperature other than 50 degrees fahrenheit.

All repair work associated with the bridges shall be completed by stage construction utilizing TC&P. Standard 701402 and with temporary concrete barrier located as detailed in these repair plans.

Prior to pouring the new concrete deck, all heavy or loose rust, loose mill scale, and other loose or potentially detrimental foreign material shall be removed from the surfaces in contact with 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.

As directed by the Engineer, existing construction accessories welded to the top flange of beams and girders shall be removed. The weld areas shall be ground flush and inspected for cracks using magnetic particle testing (MT) or dye penetrant testing (PT) by qualified personnel approved by the Engineer. Any cracks that can not be removed by grinding $\frac{1}{2}$in. deep shall be identified and reported to the Bureau of Bridges and Structures for further disposition. The cost of removing welded accessories, grinding and inspecting weld areas and grinding cracks will be paid for according to Article 109.04 of the Standard Specifications.

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

The "Bridge Approach Shoulder Removal" and "P.C. Concrete Bridge Approach Shoulder Pavement" shall be constructed to proposed grade, after the completion of the microsilica overlays and joint repairs. Stage traffic shall not drive on the new bridge approach shoulders.

Concrete Sealer shall apply to Top of Deck, Inside Face of Parapets, & Top of Parapets.

TOTAL BILL OF MATERIALS

ITEM	UNIT	TOTAL
CONCRETE REMOVAL	CU YD	27.8
REINFORCEMENT BARS, EPOXY COATED	POUND	3620
BAR SPLICERS	EACH	44
PREFORMED JOINT STRIP SEAL	FOOT	201.5
CONCRETE SUPERSTRUCTURE	CU YD	31.8
DECK SLAB REPAIR (FULL DEPTH, TYPE II)	SQ YD	100.2
DECK SLAB REPAIR (FULL DEPTH, TYPE I)	SQ YD	2.3
BRIDGE DECK MICROSILICA CONCRETE OVERLAY 2½"	SQ YD	2863
BRIDGE DECK HYDRO-SCARIFICATION ½"	SQ YD	2863
FRAMES AND GRATES TO BE ADJUSTED	EACH	4
BRIDGE APPROACH SHOULDER REMOVAL	SQ YD	70
P.C. CONCRETE BRIDGE APPROACH SHOULDER PAVEMENT	SQ YD	70
GABIONS	CU YD	144
FILTER FABRIC	SQ YD	203
CONCRETE SEALER	SQ FT	31520
BRIDGE DECK GROOVING	SQ YD	2780
RELOCATING NAME PLATES	EACH	2
STRUCTURAL REPAIR OF CONCRETE (DEPTH EQUAL TO OR LESS THAN 5 INCHES)	SQ FT	18

STATE OF ILLINOIS
ALAN D. LUKENS
081-005167
QUINCY, ILLINOIS
LICENSED STRUCTURAL ENGINEER

2-17-10

Alan D. Lukens — Date
Licensed Structural Engineer
State of Illinois No. 081-005167
License Expires 11/30/10

DESIGNED	KTH
CHECKED	ADL
DRAWN	KTH
CHECKED	ADL

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STATE OF ILLINOIS DESIGN FIRM # 1842738

GENERAL PLAN & ELEVATION
FAI 172 OVER BURTON CREEK
SN 001-0055 & 0056

SHEET NO. 1	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
16 SHEETS	172	1-4B	ADAMS	165	119
			CONTRACT NO. 72A09		
	FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

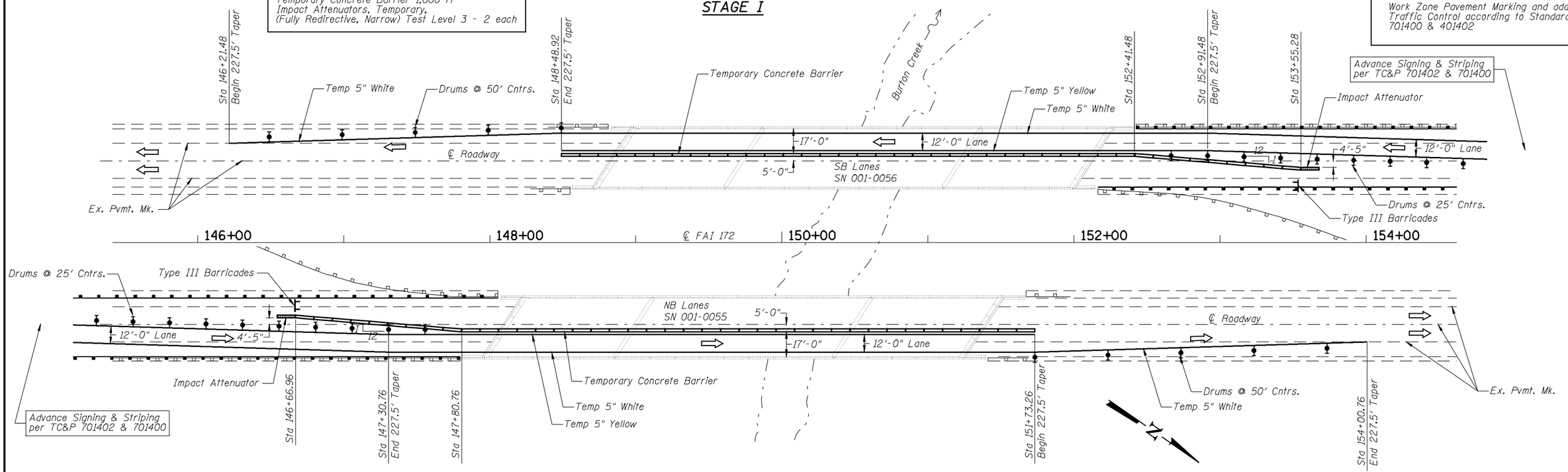
Klingner & Associates P.C.

Feb-01-2010 10:56:08AM

Temporary Concrete Barrier 1,000 ft
Impact Attenuators, Temporary,
(Fully Redirective, Narrow) Test Level 3 - 2 each

Work Zone Pavement Marking and additional Traffic Control according to Standard 701400 & 401402

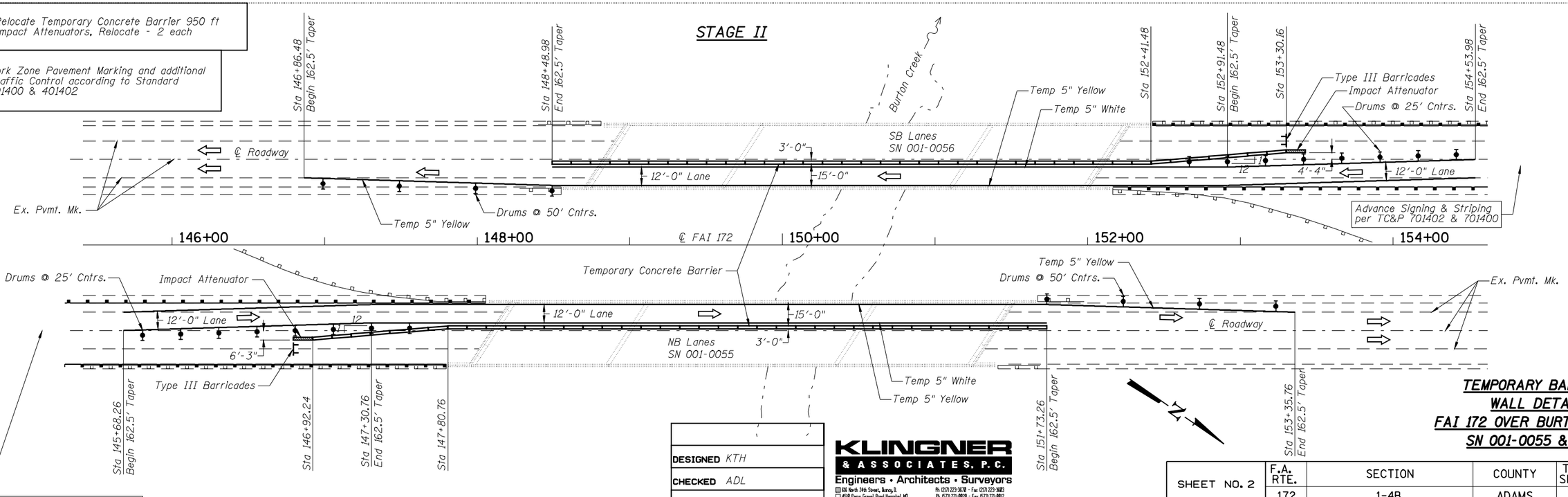
STAGE I



Relocate Temporary Concrete Barrier 950 ft
Impact Attenuators, Relocate - 2 each

Work Zone Pavement Marking and additional Traffic Control according to Standard 701400 & 401402

STAGE II



DESIGNED	KTH
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DRAWN	KTH
CHECKED	ADL

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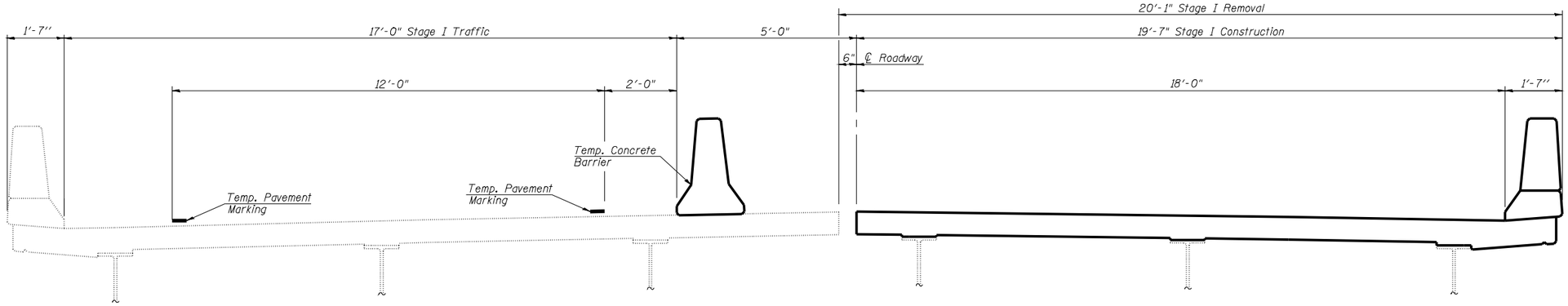
STATE OF ILLINOIS DESIGN FIRM # 1842738

TEMPORARY BARRIER WALL DETAIL FAI 172 OVER BURTON CREEK SN 001-0055 & 0056

SHEET NO. 2
16 SHEETS

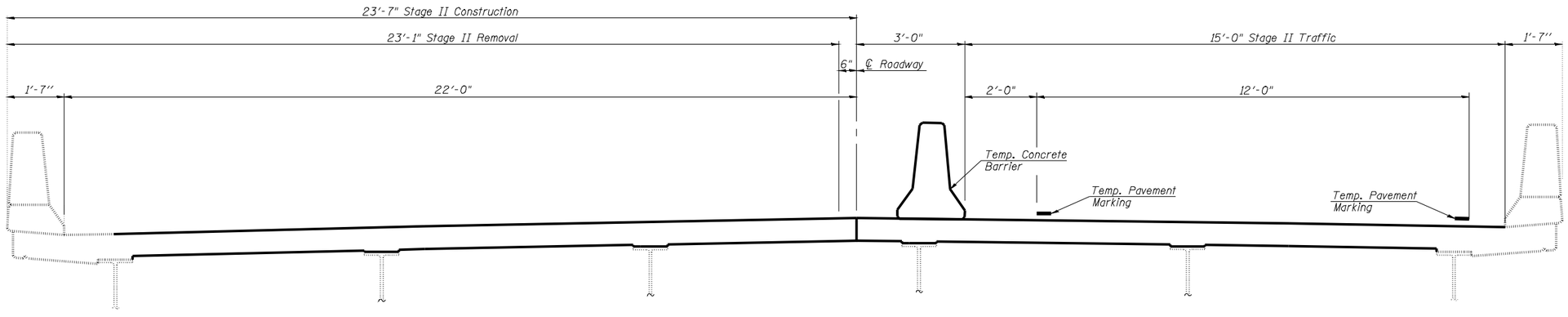
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
172	1-4B	ADAMS	165	120
		CONTRACT NO. 72A09		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

$FILE$



STAGE I CONSTRUCTION

(Looking South SN 001-0055)
(Looking North SN 001-0056)



STAGE II CONSTRUCTION

(Looking South SN 001-0055)
(Looking North SN 001-0056)

DESIGNED	KTH
CHECKED	ADL
DRAWN	KTH
CHECKED	ADL

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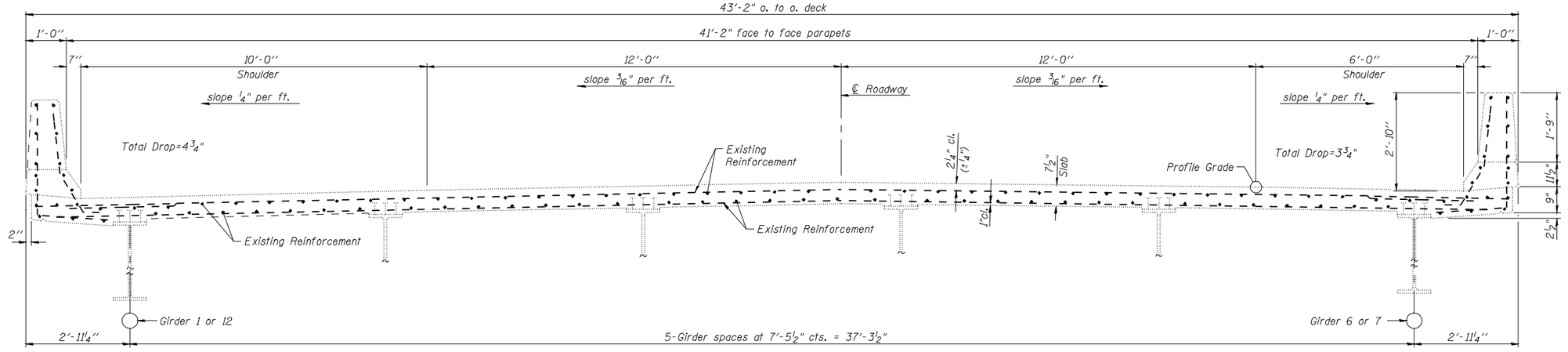
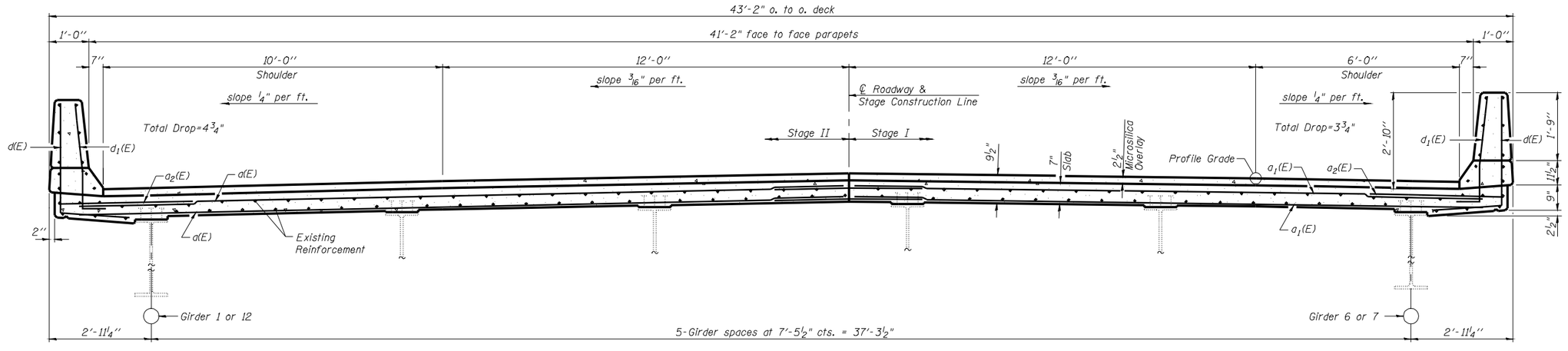
STAGING
FAI 172 OVER BURTON CREEK
SN 001-0055 & 0056

SHEET NO. 3	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
16 SHEETS	172	1-4B	ADAMS	165	121
			CONTRACT NO. 72A09		
	FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



EXISTING CROSS SECTION

(Looking South SN 001-0055)
(Looking North SN 001-0056)



CROSS SECTION

(Looking South SN 001-0055)
(Looking North SN 001-0056)

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CHECKED	ADL
DRAWN	KTH
CHECKED	ADL

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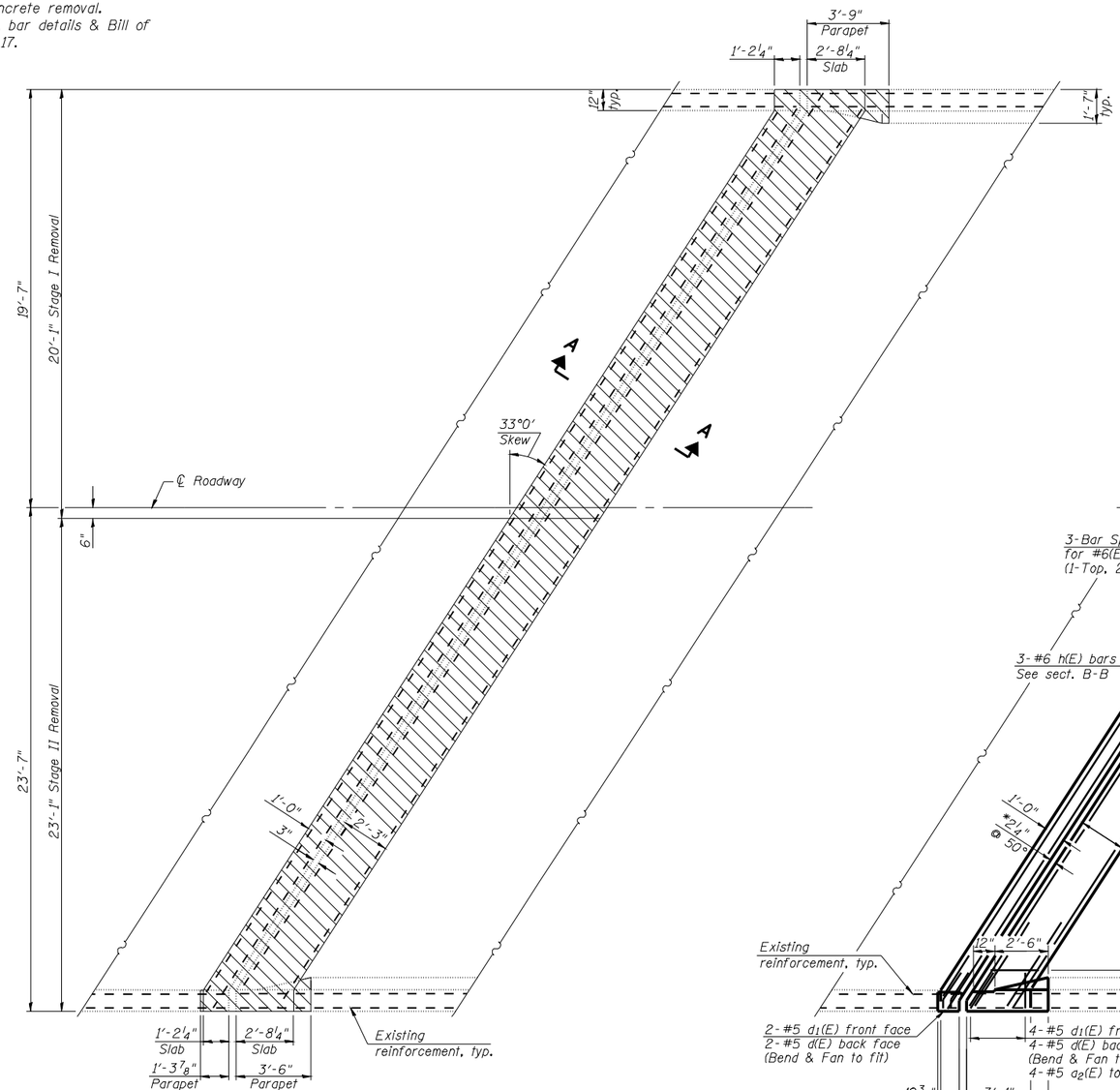
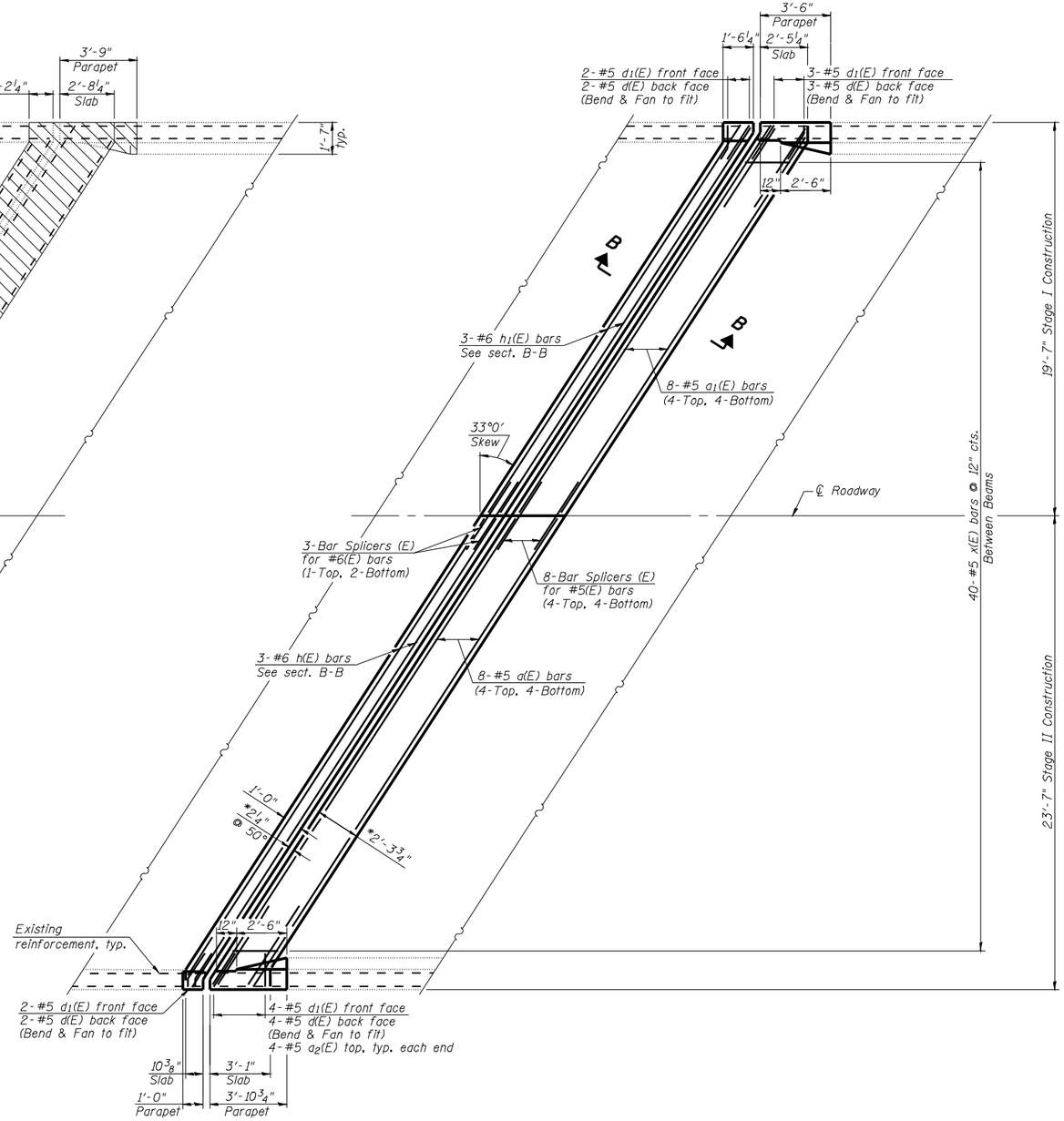
SUPERSTRUCTURE DETAILS
FAI 172 OVER BURTON CREEK
SN 001-0055 & 0056

SHEET NO. 4	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
16 SHEETS	172	1-4B	ADAMS	165	122
			CONTRACT NO. 72A09		
	FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

Notes:
Hatched areas indicate concrete removal.
For Sections A-A & B-B, bar details & Bill of Material see sheet No. 9 of 17.





PARTIAL REMOVAL PLAN
(South Abutment SN 001-0055)

PARTIAL PROPOSED PLAN
(South Abutment SN 001-0055)

SUPERSTRUCTURE DETAILS
FAI 172 OVER BURTON CREEK
SN 001-0055 & 0056

DESIGNED	KTH
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DRAWN	KTH
CHECKED	ADL

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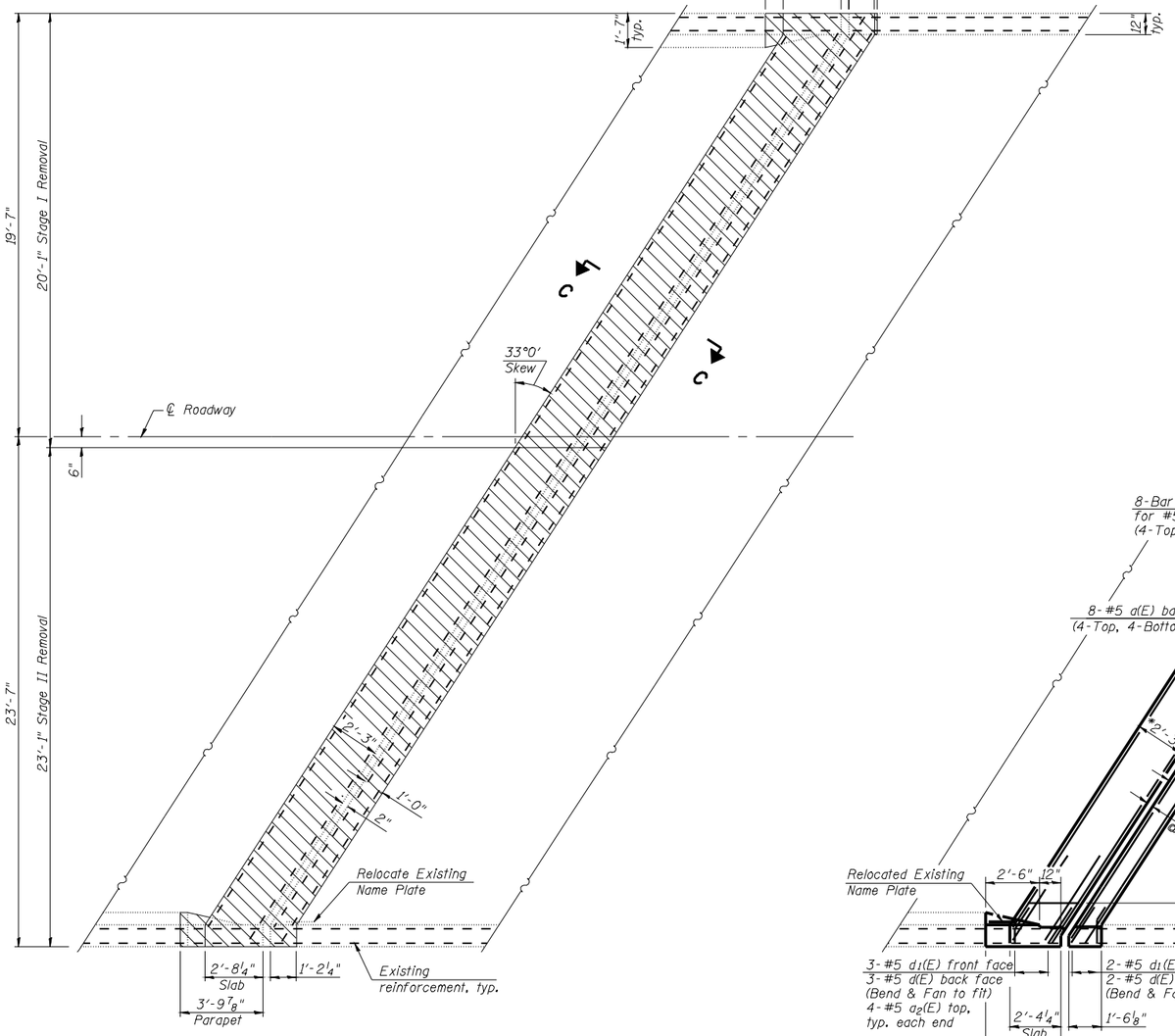
STATE OF ILLINOIS DESIGN FIRM # 1842738

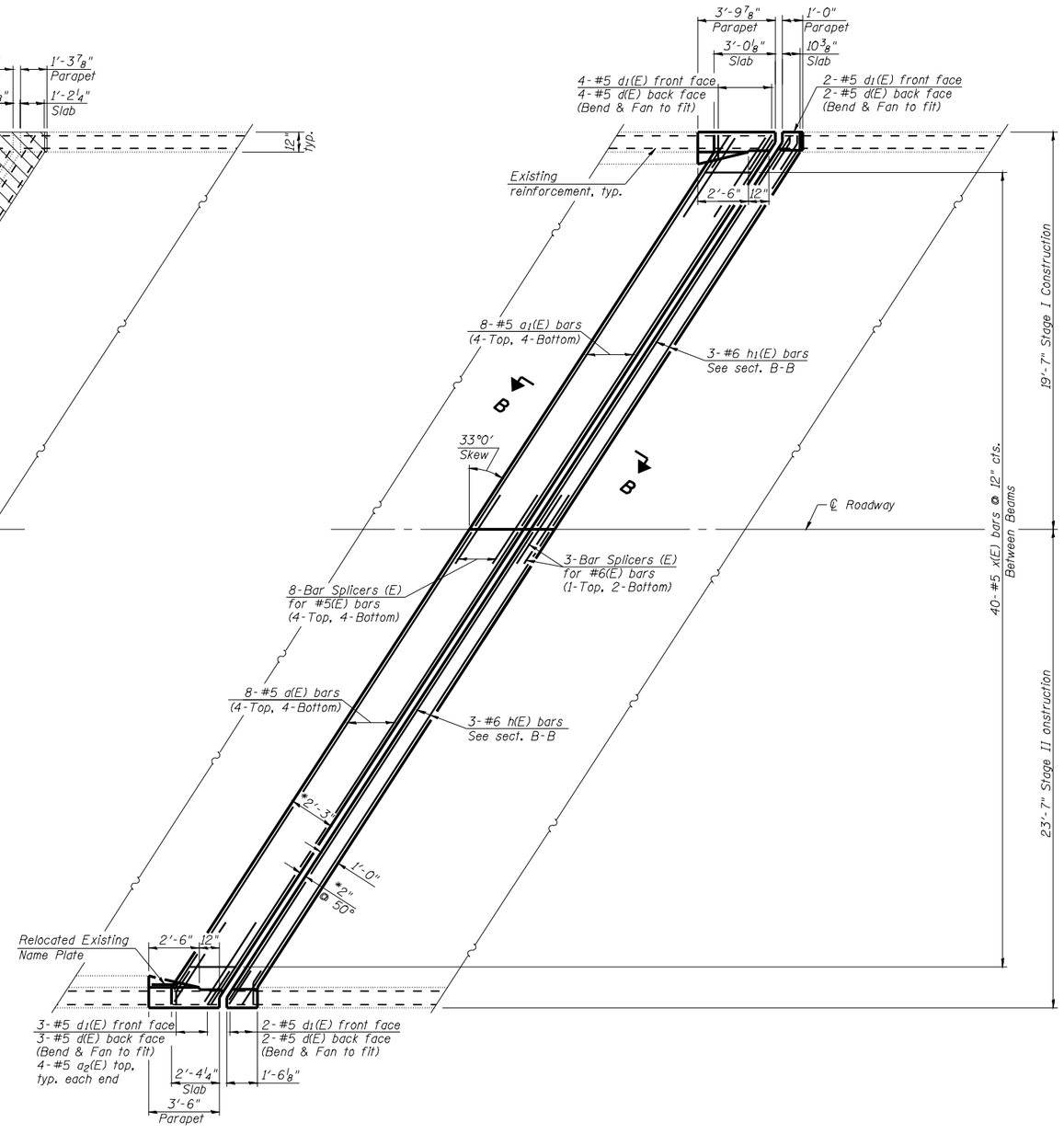
SHEET NO. 5	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
16 SHEETS	172	1-4B	ADAMS	165	123
			CONTRACT NO. 72A09		
	FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

Feb-01-2010 10:56:18AM

Notes:
Hatched areas indicate concrete removal.
For Sections B-B & C-C, bar details & Bill of Material see sheet No. 9 of 17.
Care shall be taken to not damage the name plates.



PARTIAL REMOVAL PLAN
(North Abutment SN 001-0055)



PARTIAL PROPOSED PLAN
(North Abutment SN 001-0055)

SUPERSTRUCTURE DETAILS
FAI 172 OVER BURTON CREEK
SN 001-0055 & 0056

DESIGNED	KTH
CHECKED	ADL
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CHECKED	ADL

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SHEET NO. 6	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
16 SHEETS	172	1-4B	ADAMS	165	124
			CONTRACT NO. 72A09		
	FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

$FILE$

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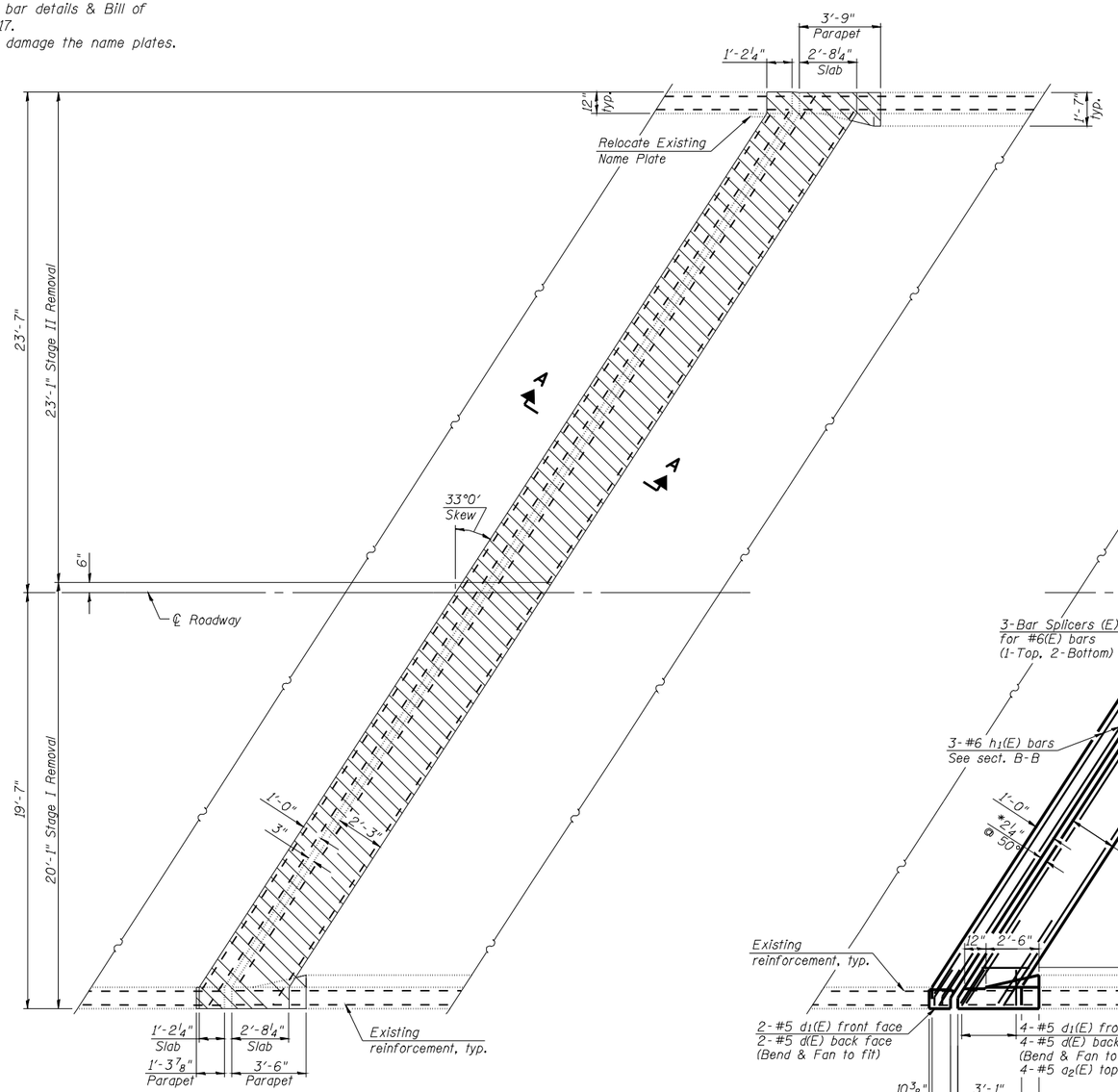
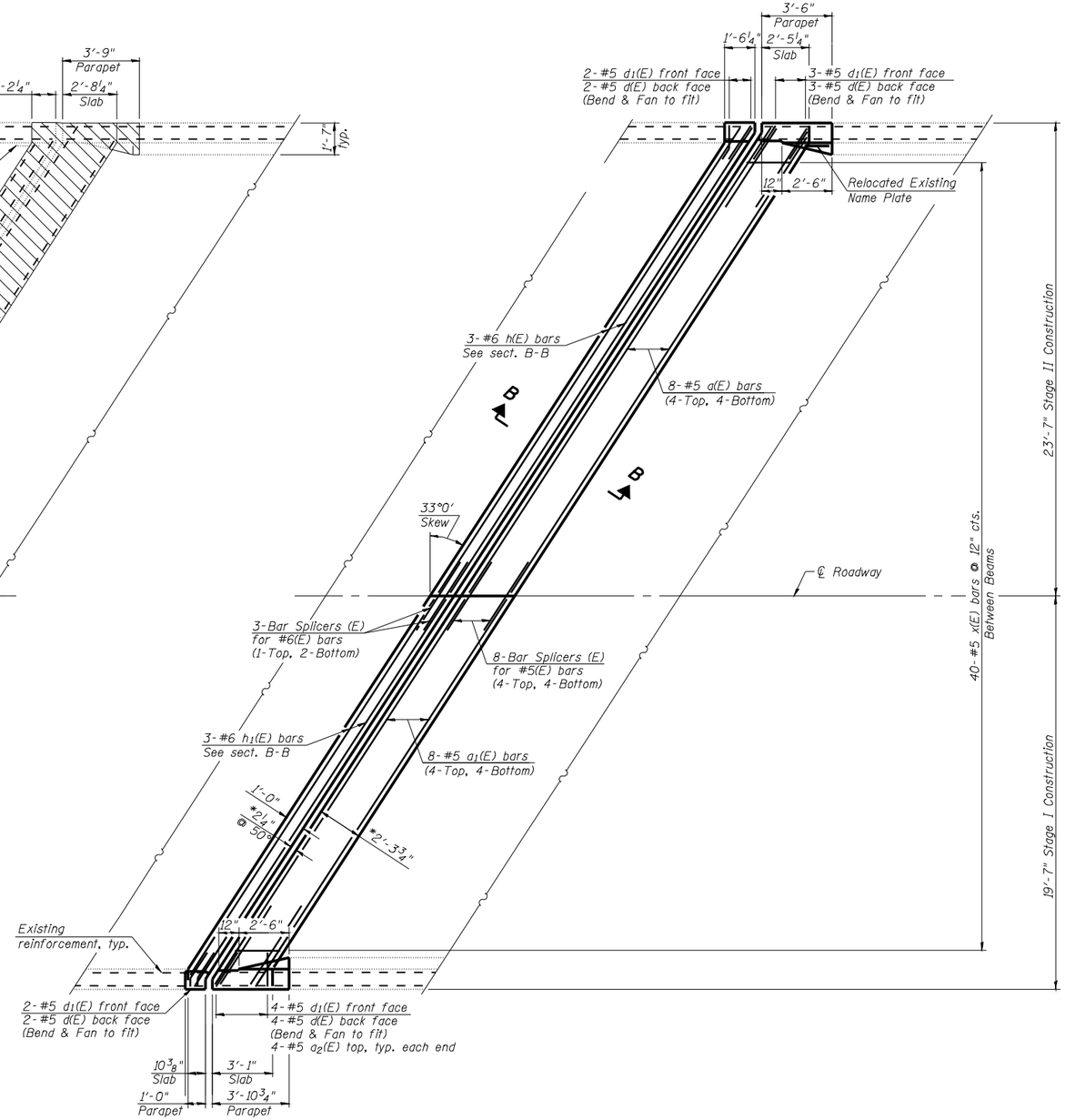
Notes:
Hatched areas indicate concrete removal.
For Sections A-A & B-B, bar details & Bill of Material see sheet No. 9 of 17.
Care shall be taken to not damage the name plates.





PARTIAL REMOVAL PLAN
(South Abutment SN 001-0056)

PARTIAL PROPOSED PLAN
(South Abutment SN 001-0056)

SUPERSTRUCTURE DETAILS
FAI 172 OVER BURTON CREEK
SN 001-0055 & 0056

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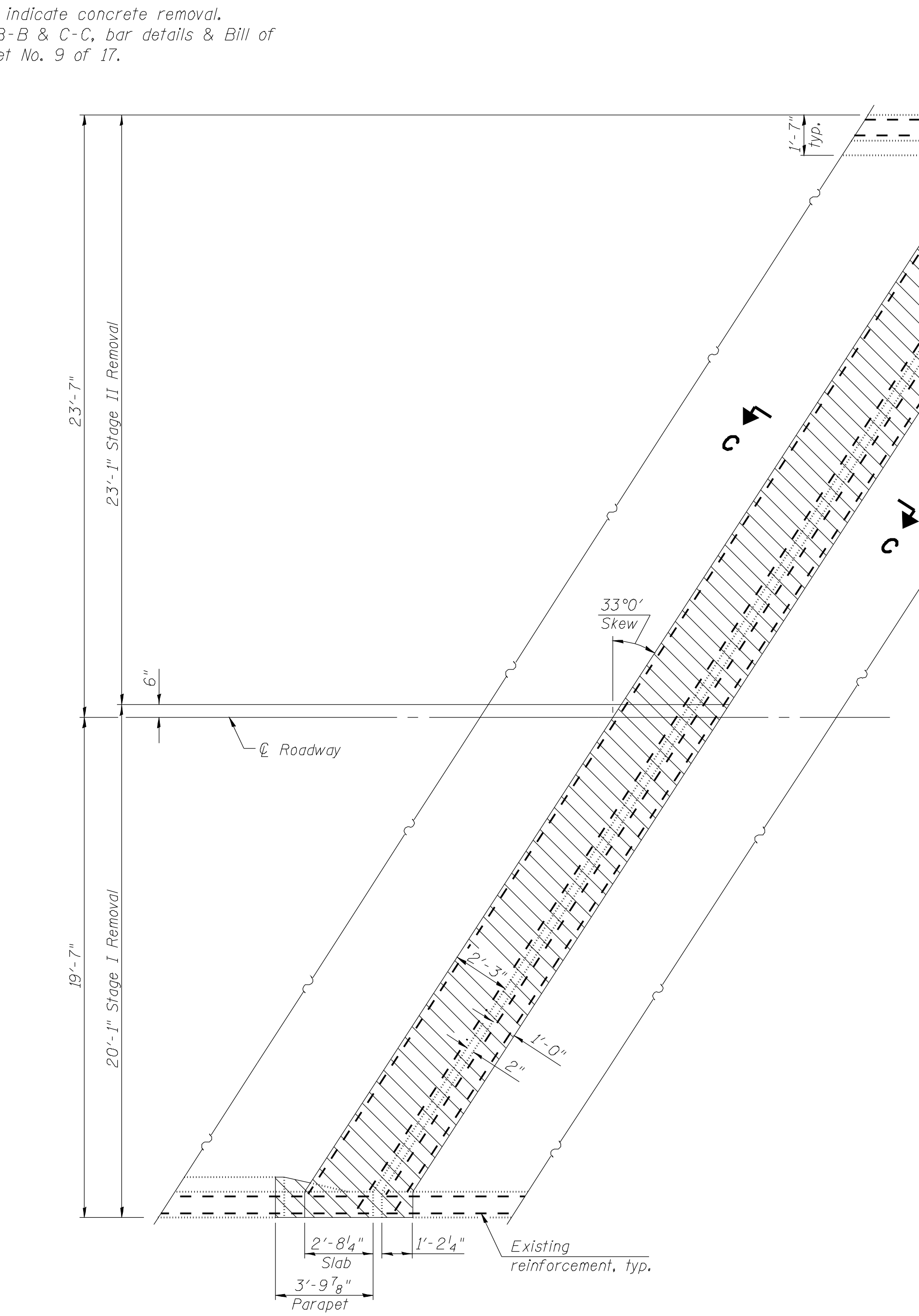
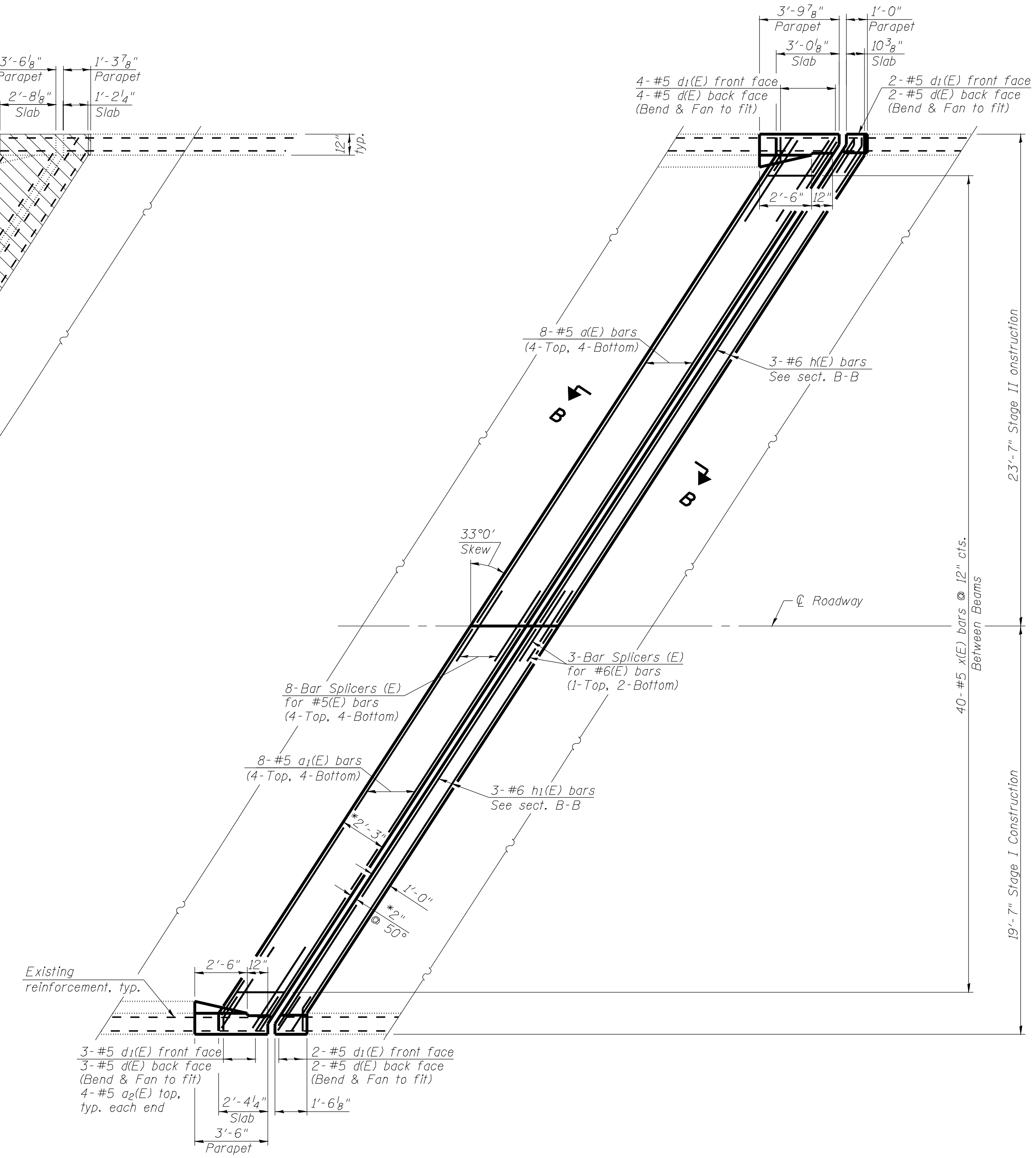
SHEET NO. 7	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
16 SHEETS	172	1-4B	ADAMS	165	125
			CONTRACT NO. 72A09		
	FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

$FILE$

Notes:
Hatched areas indicate concrete removal.
For Sections B-B & C-C, bar details & Bill of Material see sheet No. 9 of 17.



PARTIAL REMOVAL PLAN
(North Abutment SN 001-0056)



PARTIAL PROPOSED PLAN
(North Abutment SN 001-0056)

N

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CHECKED	ADL
DRAWN	KTH
CHECKED	ADL

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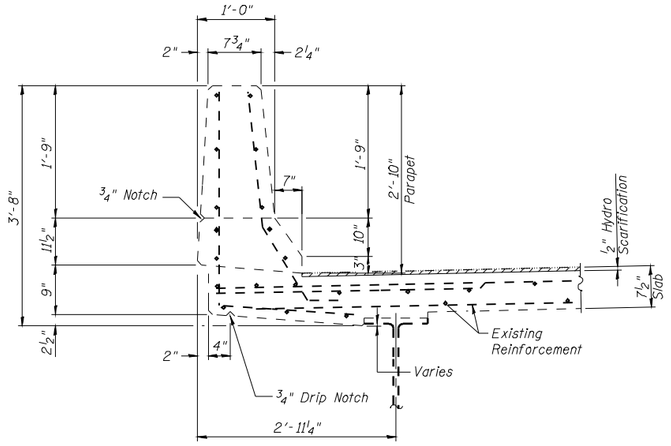
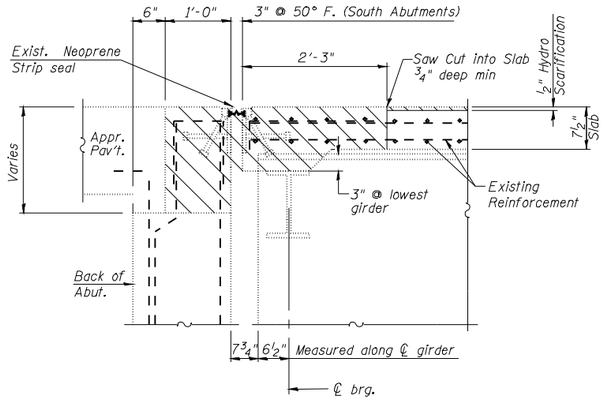
SUPERSTRUCTURE DETAILS
FAI 172 OVER BURTON CREEK
SN 001-0055 & 0056

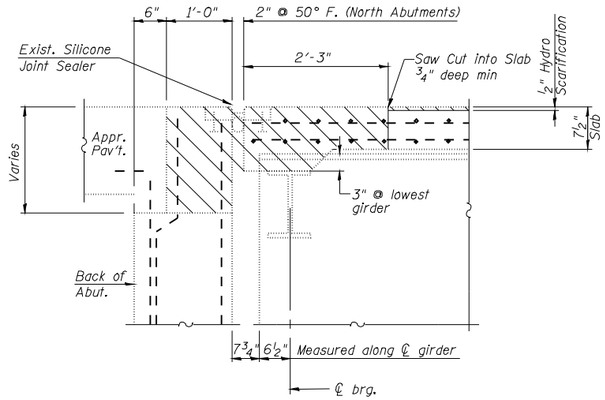
SHEET NO. 8	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
16 SHEETS	172	1-4B	ADAMS	165	126
			CONTRACT NO. 72A09		
	FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



SECTION THRU EXISTING PARAPET



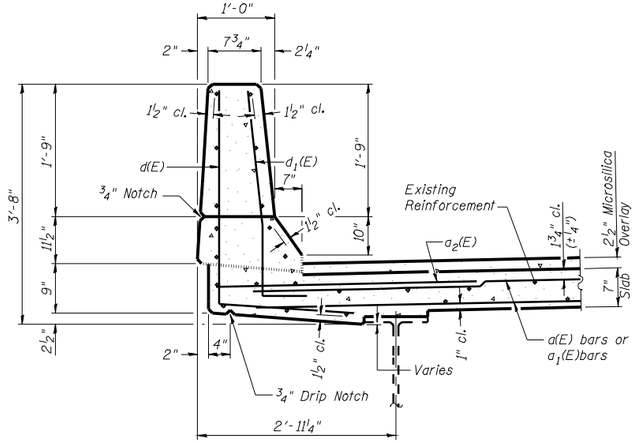
SECTION A-A



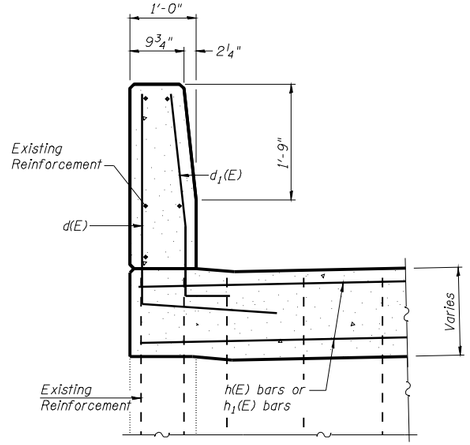
SECTION C-C

BILL OF MATERIAL

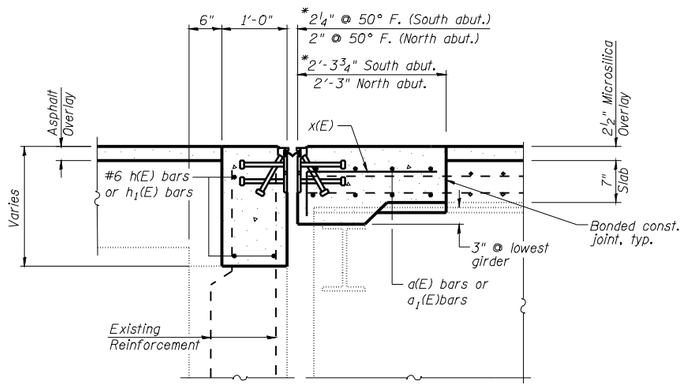
Bar	No.	Size	Length	Shape
d(E)	32	#5	27'-2"	
a_1(E)	32	#5	22'-6"	
a_2(E)	32	#5	4'-0"	
d(E)	44	#5	5'-2"	
d_1(E)	44	#5	4'-2"	
h(E)	12	#6	27'-2"	
h_1(E)	12	#6	22'-6"	
x(E)	160	#5	3'-0"	
Reinforcement Bars, Epoxy Coated			Pound	3620
Bar Splicers			Each	44
Concrete Superstructure			Cu. Yds.	32.4



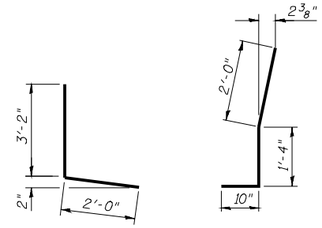
SECTION THRU PARAPET



SECTION THRU APPROACH PARAPET

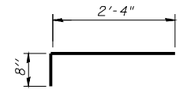


SECTION B-B



BAR d(E)

BAR d_1(E)



BAR x(E)

* Dimensions are based on a Rolled Rail Strip Seal Joint. If the Contractor elects to use the Welded Rail Strip Seal Joint, deck dimensions may require adjustments to satisfy the details on Sheet No. 10 of 16.

Notes:
Hatched areas indicate concrete sections to be removed and replaced. Perimeters of concrete removal areas shall be saw cut 3/4" prior to the removal of concrete.
Existing reinforcement bars shown are to be cleaned and incorporated into the new construction.

DESIGNED	KTH
CHECKED	ADL
DRAWN	KTH
CHECKED	ADL

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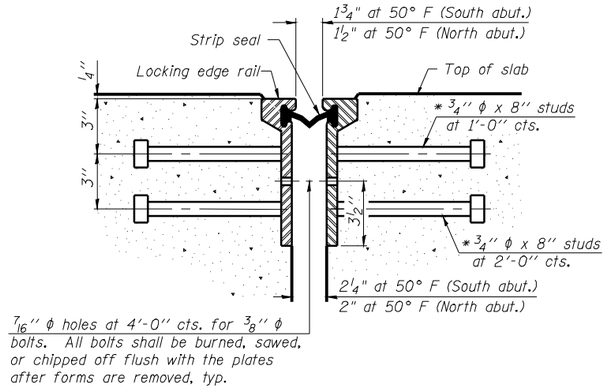
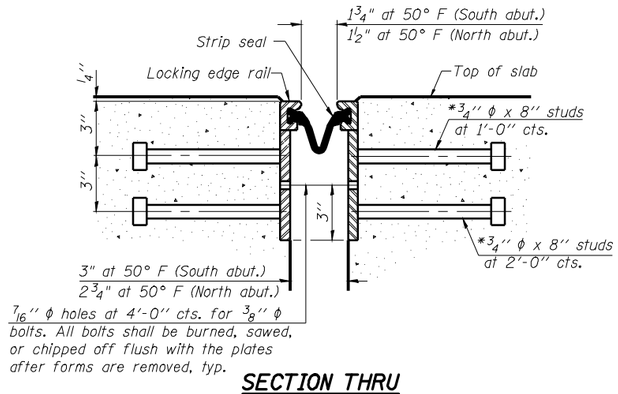
SUPERSTRUCTURE DETAILS
FAI 172 OVER BURTON CREEK
SN 001-0055 & 0056

SHEET NO. 9	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
16 SHEETS	172	1-4B	ADAMS	165	127
			CONTRACT NO. 72A09		
	FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

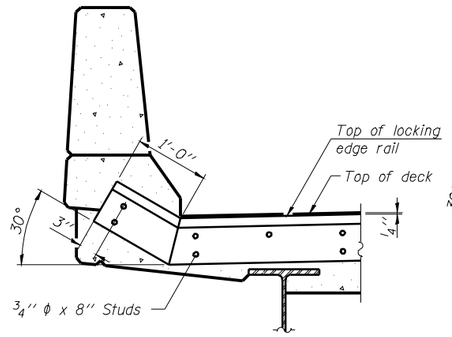
* Granular or solid flux filled headed studs conforming to Article 1006.32 of the Std. Specs., automatically end welded.



SECTION THRU ROLLED RAIL JOINT

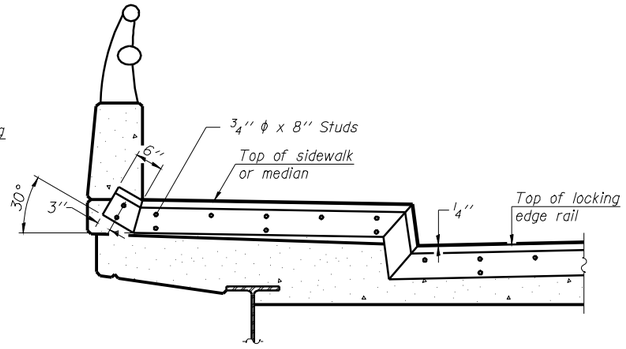


SECTION THRU WELDED RAIL JOINT



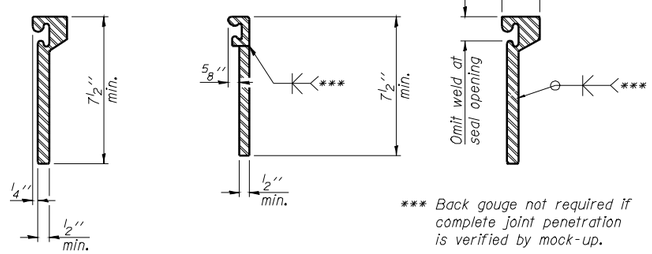
AT PARAPET

See Section A-A for end treatment of skews > 30°.



AT SIDEWALK OR MEDIAN

Shorter plates with a single row of studs at 12" cts. may be necessary on medians which are shallower than 9". See manufacturer's recommendation.



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

ROLLED EXTRUDED RAIL

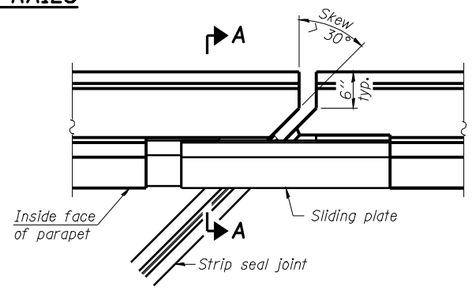
WELDED RAIL

LOCKING EDGE RAIL SPLICE

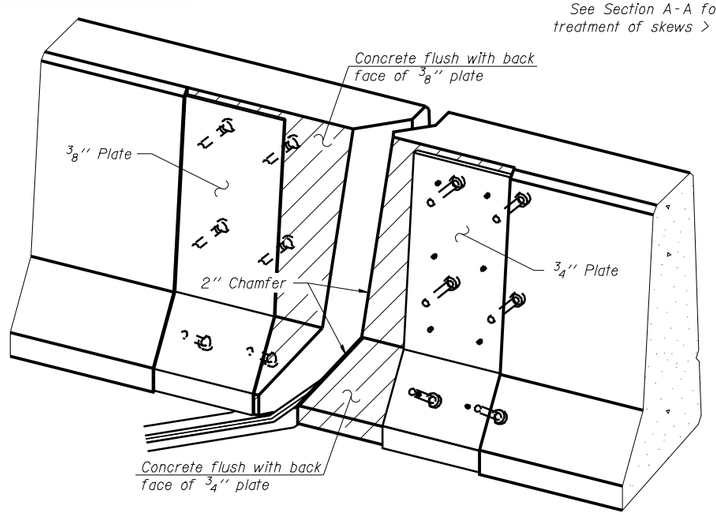
The inside of the locking edge rail groove shall be free of weld residue.

Rolled rail shown, welded rail similar.

LOCKING EDGE RAILS

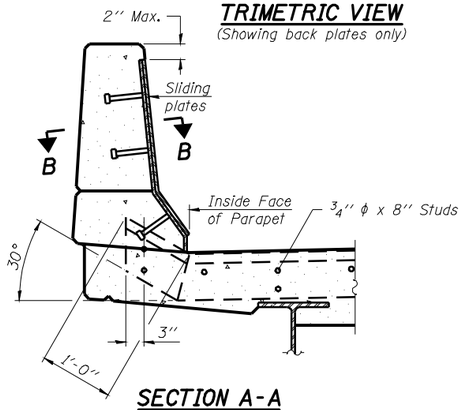


PLAN



TRIMETRIC VIEW

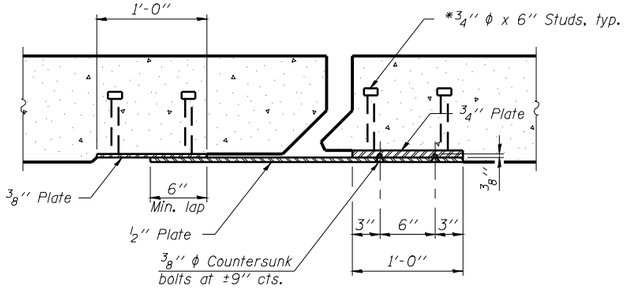
(Showing back plates only)



SECTION A-A

POINT BLOCK DETAILS

(for skews > 30°)



SECTION B-B

TYPICAL END TREATMENTS

Notes:

The strip seal shall be made continuous and shall have a minimum thickness of 1/4". The configuration of the strip seal shall match the configuration of the Locking Edge Rails. Open or "webbed" strip seal gland configurations are not permitted. The gland shall be sized for a maximum rated movement of 4 inches.

The Locking Edge Rails depicted are conceptual only, except for the minimum dimensions shown. The actual configuration of the Locking Edge Rails and matching strip seal may vary from manufacturer to manufacturer. Flanged edge rails will not be allowed. Locking Edge Rails may be spliced at slope discontinuities.

The manufacturer's recommended installation methods shall be followed.

The joint opening and deck dimensions detailed on the superstructure are based on a rolled rail expansion joint. If the Contractor elects to use the welded rail expansion joint, the opening and deck dimensions shall be modified according to the dimensions detailed on this sheet. Required modifications shall be made at no additional cost to the State.

All steel components shall be galvanized after fabrication according to Article 520.03 of the Standard Specifications.

Maximum space between rail segments at stage lines shall be 3/16", sealed with a suitable sealant.

BILL OF MATERIAL

Item	Unit	Total
Preformed Joint Strip Seal	Foot	201.5

DESIGNED	KTH
CHECKED	ADL
DRAWN	KTH
CHECKED	ADL

EJ-SSJ 11-1-09

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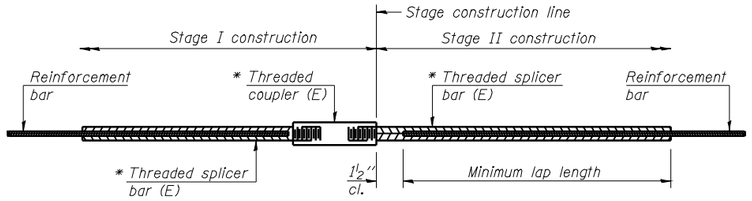
PREFORMED JOINT STRIP SEAL STRUCTURE NO. 001-0055 & 0056

SHEET NO. 10	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
16 SHEETS	172	1-4B	ADAMS	165	128
			CONTRACT NO. 72A09		
	FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



STANDARD BAR SPLICER ASSEMBLY

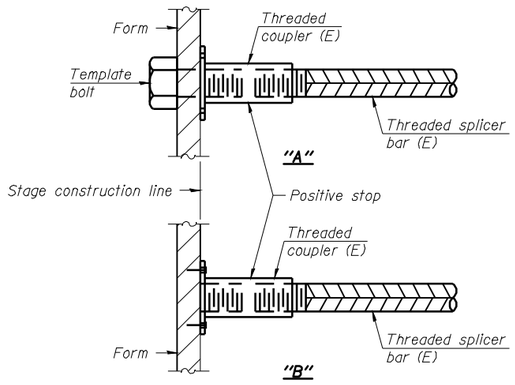
Minimum Lap Lengths				
Bar size to be spliced	Table 1	Table 2	Table 3	Table 4
3, 4	1'-5"	1'-11"	2'-1"	2'-4"
5	1'-9"	2'-5"	2'-7"	2'-11"
6	2'-1"	2'-11"	3'-1"	3'-6"
7	2'-9"	3'-10"	4'-2"	4'-8"
8	3'-8"	5'-1"	5'-5"	6'-2"
9	4'-7"	6'-5"	6'-10"	7'-9"

Table 1: Black bar, 0.8 Class C
Table 2: Black bar, Top bar lap, 0.8 Class C
Table 3: Epoxy bar, 0.8 Class C
Table 4: Epoxy bar, Top bar lap, 0.8 Class C

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

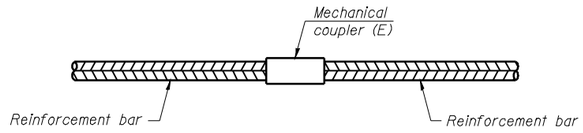
* Epoxy not required on Bar Splicer Assembly components used in conjunction with black bars.

Location	Bar size	No. assemblies required	Table for minimum lap length
Deck	#5	32	Table 3
Abutment	#6	12	Table 3



INSTALLATION AND SETTING METHODS

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



STANDARD MECHANICAL SPLICER

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 special provision for Mechanical Splicers.

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

DESIGNED	KTH
CHECKED	ADL
DRAWN	KTH
CHECKED	ADL

BSD-1

11-1-09

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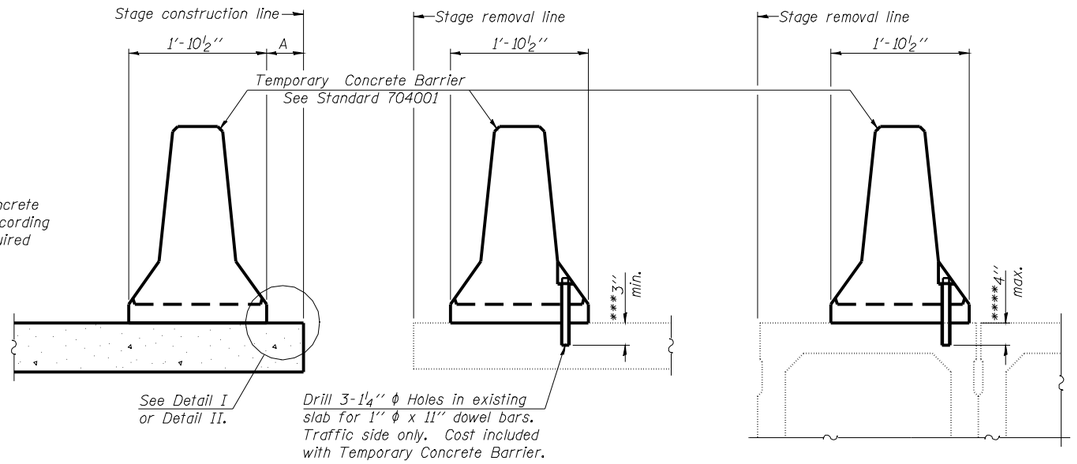
BAR SPLICER ASSEMBLY AND MECHANICAL SPLICER DETAILS STRUCTURE NO. 001-0055 & 0056

SHEET NO. 11	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
16 SHEETS	172	1-4B	ADAMS	165	129
			CONTRACT NO. 72A09		
	FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

When "A" is 3'-6" or less, the temporary concrete barrier shall be anchored to the new slab according to Detail I or Detail II. No anchorage is required when "A" is greater than 3'-6".



NEW SLAB | **EXISTING SLAB** | **EXISTING DECK BEAM**

NOTES

Detail I - With Bar Splicer or Couplers:
Connect one (1) 1"x7"x10" steel ℙ to the top layer of couplers with 2-⅝" ϕ bolts screwed to coupler at approximate ℄ of each barrier panel.

Detail II - With Extended Reinforcement Bars:
Connect one (1) 1"x7"x 10" steel ℙ to the concrete slab or concrete wearing surface with 2-⅝" ϕ Expansion Anchors or cast in place inserts spaced between the top layer of reinforcement at approximate ℄ of each barrier panel.

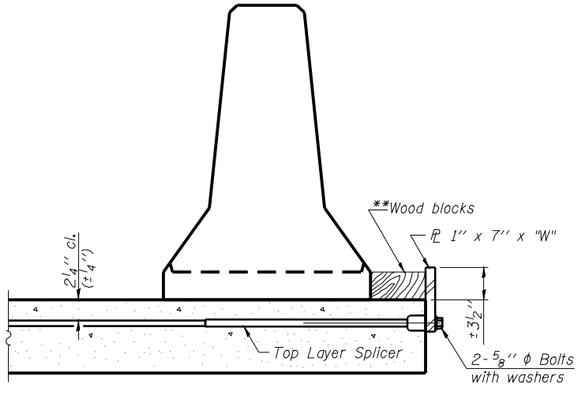
Cost of anchorage is included with Temporary Concrete Barrier.

The 1" x 7" x 10" plate shall not be removed until stage II construction forms and all reinforcement bars are in place and the concrete is ready to be placed.

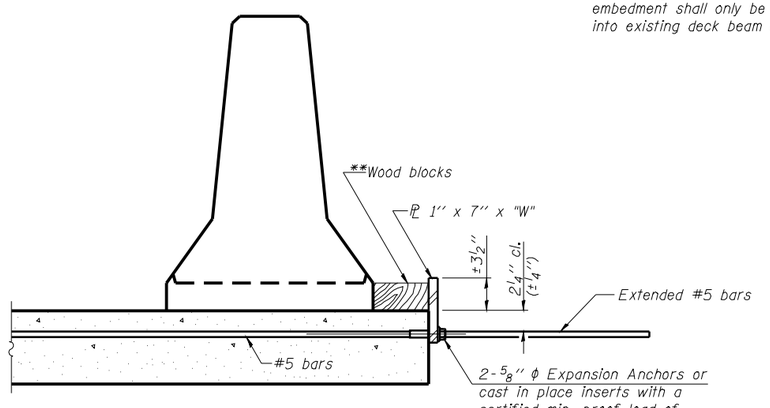
SECTIONS THRU SLAB OR DECK BEAM

*** Dimension shown is minimum required embedment into concrete. If hot-mix asphalt wearing surface is present, minimum embedment shall be in addition to wearing surface depth.

**** If existing deck beam is to remain in place after stage construction, embedment shall only be into wearing surface and not into existing deck beam concrete.



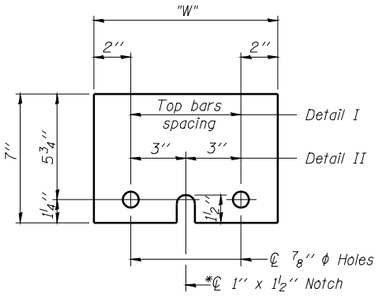
DETAIL I



DETAIL II

** Wood blocks may be omitted when required to provide minimum stage traffic lane width. When the wood blocks are omitted, the concrete barrier shall be in direct contact with the steel retainer plate.

"W" = Top bars spacing + 4"



STEEL RETAINER ℙ 1" x 7" x 10"

* Required only with Detail II

TEMPORARY CONCRETE BARRIER FOR STAGE CONSTRUCTION STRUCTURE NO. 001-0055 & 0056

DESIGNED	KTH
CHECKED	ADL
DRAWN	KTH
CHECKED	ADL

R-27

11-1-09

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SHEET NO. 12	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
16 SHEETS	172	1-4B	ADAMS	165	130
			CONTRACT NO. 72A09		
	FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

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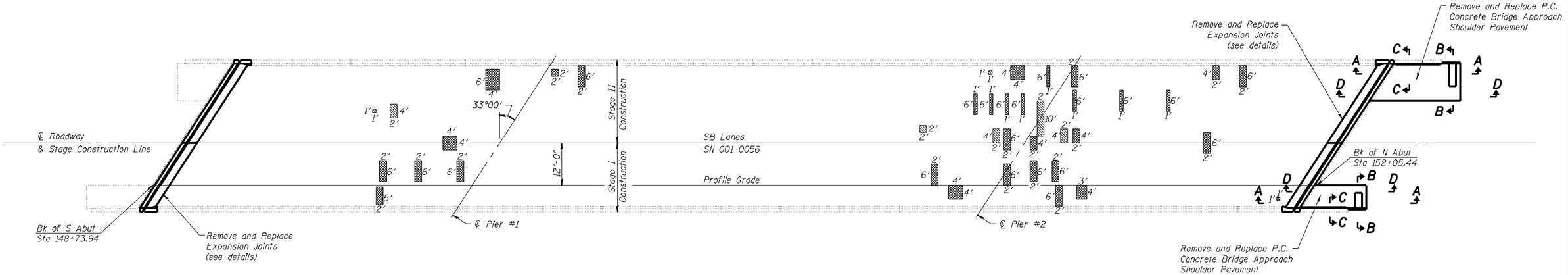

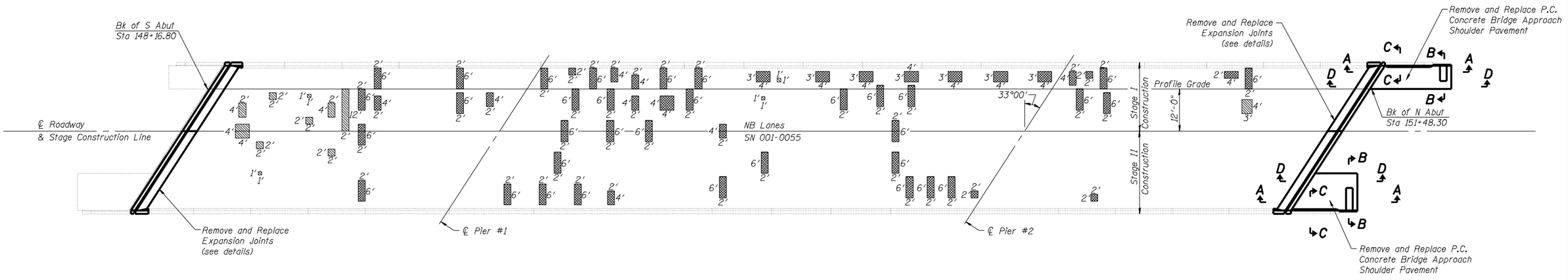

PLAN

Deck Slab Repair (Partial Depth) - 15.3 SQ. YD.
Note: Partial Depth Repair shall be achieved by bridge deck hydro-scarification and filled with microsilica concrete overlay. Cost included in "BRIDGE DECK HYDRO-SCARIFICATION ½'' " and "BRIDGE DECK MICROSILICA CONCRETE OVERLAY 2½'' "

Deck Slab Repair (Full Depth, Type I) - 2.3 SQ. YD.
Deck Slab Repair (Full Depth, Type II) - 100.2 SQ. YD.

DECK PATCHING & CONCRETE BRIDGE APPROACH SHOULDER PAVEMENT FAI 172 OVER BURTON CREEK SN 001-0055 & 0056

DESIGNED	KTH
CHECKED	ADL
DRAWN	KTH
CHECKED	ADL

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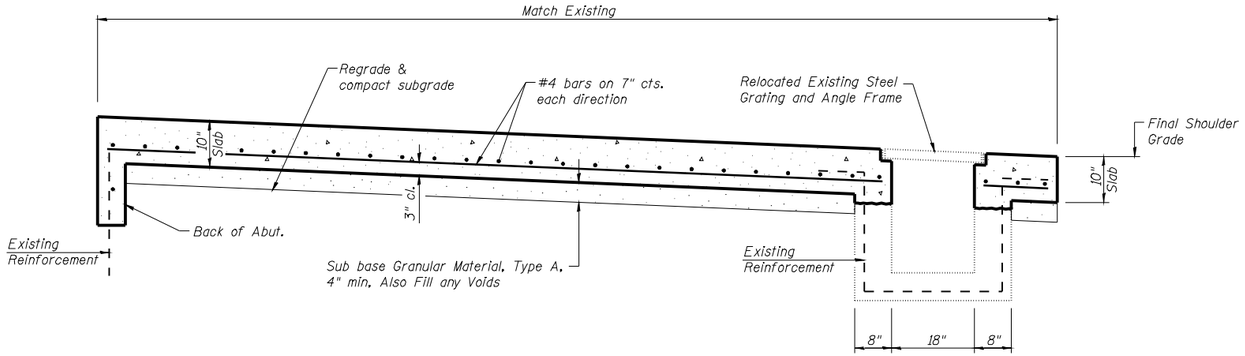
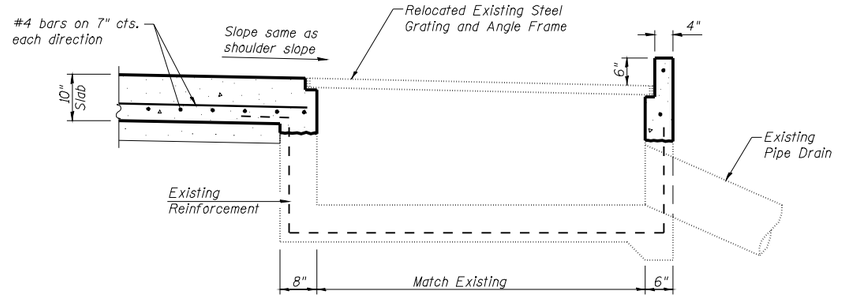
SHEET NO. 13	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
16 SHEETS	172	1-4B	ADAMS	165	131
			CONTRACT NO. 72A09		
	FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

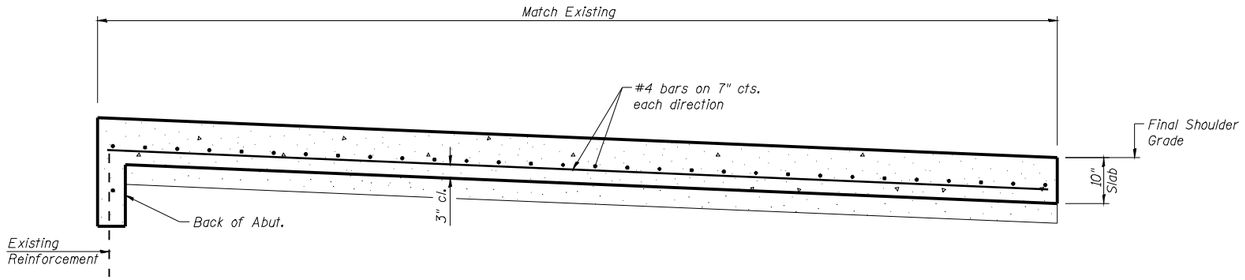
$FILE$



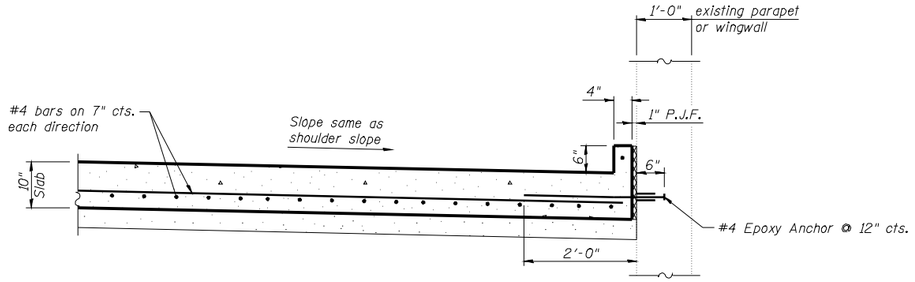
SECTION A-A



SECTION B-B



SECTION D-D



SECTION C-C

NOTES

See plans for location of bridge approach shoulder pavement.

The lengths of #4 bars used in the approach shoulder pavement shall be as required to accommodate the length, width and skew of the slab.

Bridge approach shoulder pavement will be measured in place and paid for in square yards as P.C. CONCRETE BRIDGE APPROACH SHOULDER PAVEMENT which shall include the cost of subgrade preparation, Sub base Granular Material, Type A, reinforcement and P.J.F. In computing the area for payment, a deduction will be made for the area displaced by the inside of inlet.

Existing reinforcement bars shown are to be cleaned and incorporated into the new construction.

DESIGNED	KTH
CHECKED	ADL
DRAWN	KTH
CHECKED	ADL

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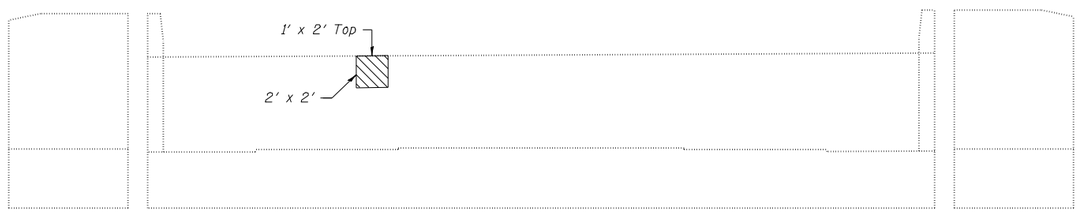
BRIDGE APPROACH SHOULDER PAVEMENT DETAILS FAI 172 OVER BURTON CREEK SN 001-0055 & 0056

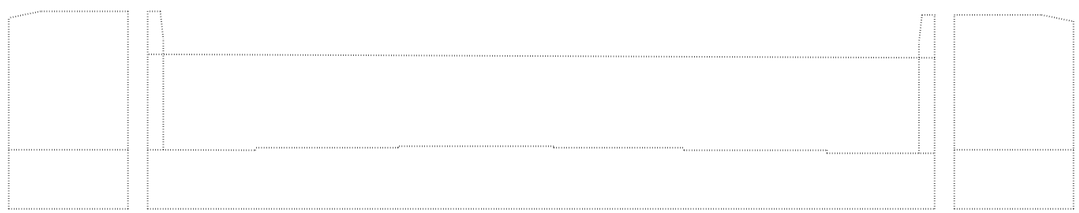
SHEET NO. 14	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
16 SHEETS	172	1-4B	ADAMS	165	132
			CONTRACT NO. 72A09		
	FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

ABUTMENT ELEVATION
(North Abutment SN 001-0056)



ABUTMENT ELEVATION
(North Abutment SN 001-0055)

ABUTMENT ELEVATION
(South Abutment SN 001-0056)



ABUTMENT ELEVATION
(South Abutment SN 001-0055)

DESIGNED	KTH
CHECKED	ADL
DRAWN	KTH
CHECKED	ADL

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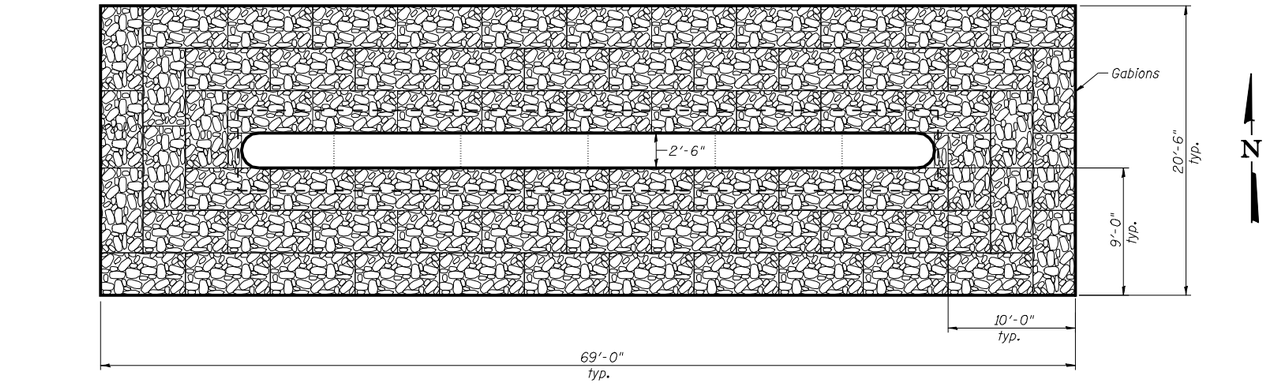
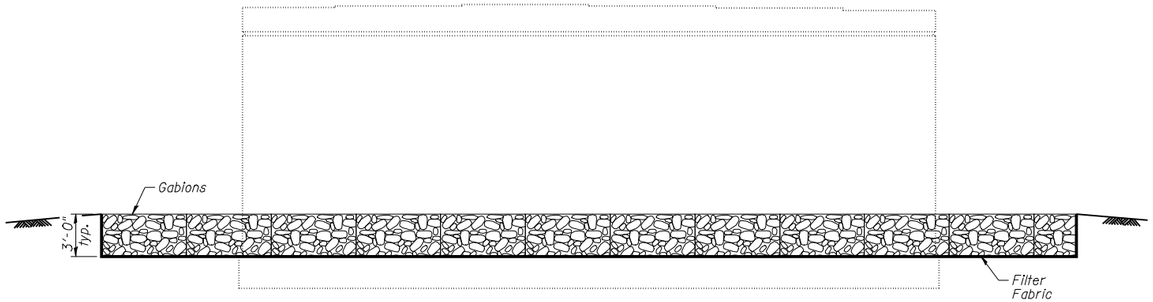
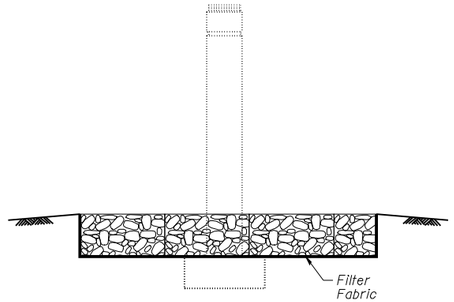
Structural Repair of Concrete
(Depth Equal to or Less than 5 Inches) - 18 SQ FT

ABUTMENT REPAIR DETAILS
FAI 172 OVER BURTON CREEK
SN 001-0055 & 0056

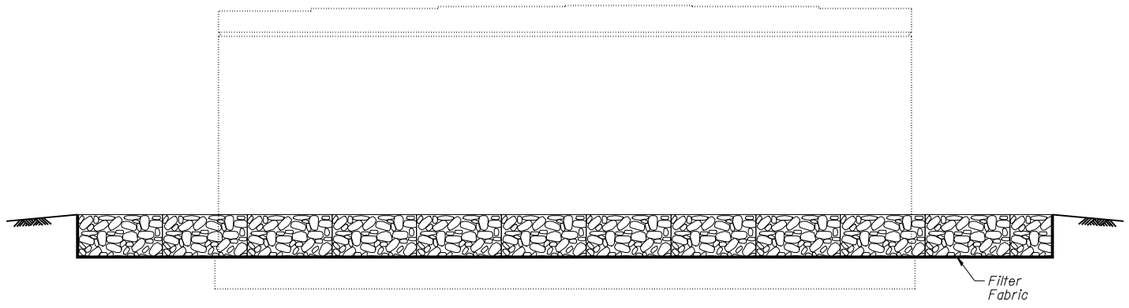
SHEET NO. 15	F.A. RTE.	SECTION		COUNTY	TOTAL SHEETS	SHEET NO.
16 SHEETS	172	1-4B		ADAMS	165	133
				CONTRACT NO. 72A09		
	FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT		

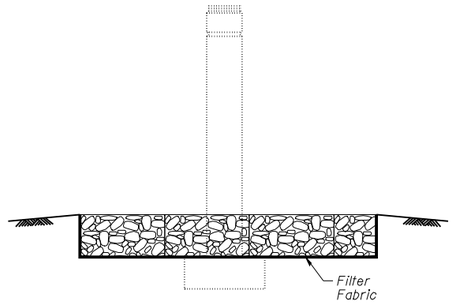






PIER 2 ELEVATION
(North Face SN 001-0056)





PIER 2 ELEVATION
(South Face SN 001-0056)

Notes:
Layout of the Gabion scour protection system may be varied to suit ground conditions in the field as directed by the Engineer.
Filter Fabric shall cover all sides & bottoms of Gabions.

DESIGNED	KTH
CHECKED	ADL
DRAWN	KTH
CHECKED	ADL

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GABIONS DETAILS
FAI 172 OVER BURTON CREEK
SN 001-0055 & 0056

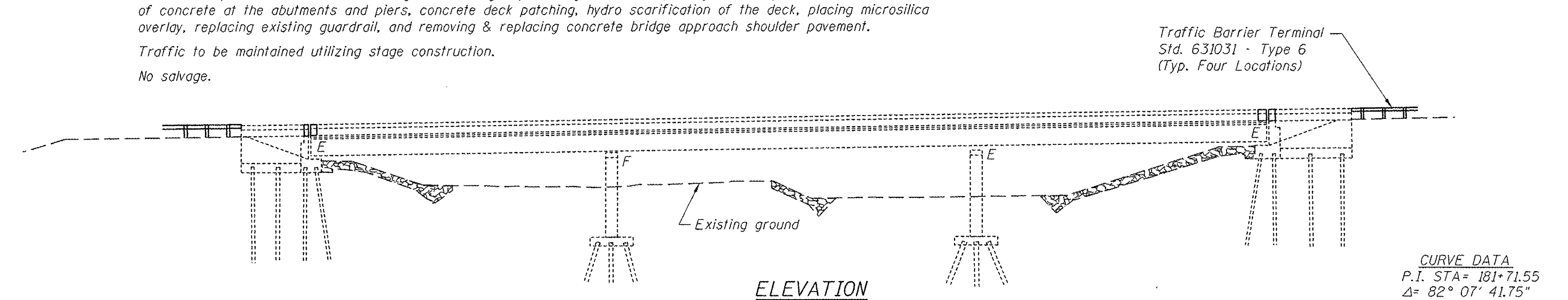
SHEET NO. 16	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
16 SHEETS	172	1-4B	ADAMS	165	134
			CONTRACT NO. 72A09		
	FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

Existing Structure: SN 001-0062 & SN 001-0063 are dual three span, curved 48" welded plate girder structures on pile bent abutments and solid piers. The structures were built in 1981 and carry FAI 172 over Mill Creek. No rehabilitation has been done on the structures. SN 001-0062 is 276'-7½" back to back of abutments along tangent Sta 181+30 and measures 43'-2" wide out to out. SN 001-0063 is 283'-3½" back to back of abutments along tangent Sta 181+30 and measures 43'-2" wide out to out. Both structures are on a 42 degree right ahead skew.

Structure improvements include removing the existing expansion joints and replacing with strip seals, structural repair of concrete at the abutments and piers, concrete deck patching, hydro scarification of the deck, placing microsilica overlay, replacing existing guardrail, and removing & replacing concrete bridge approach shoulder pavement.

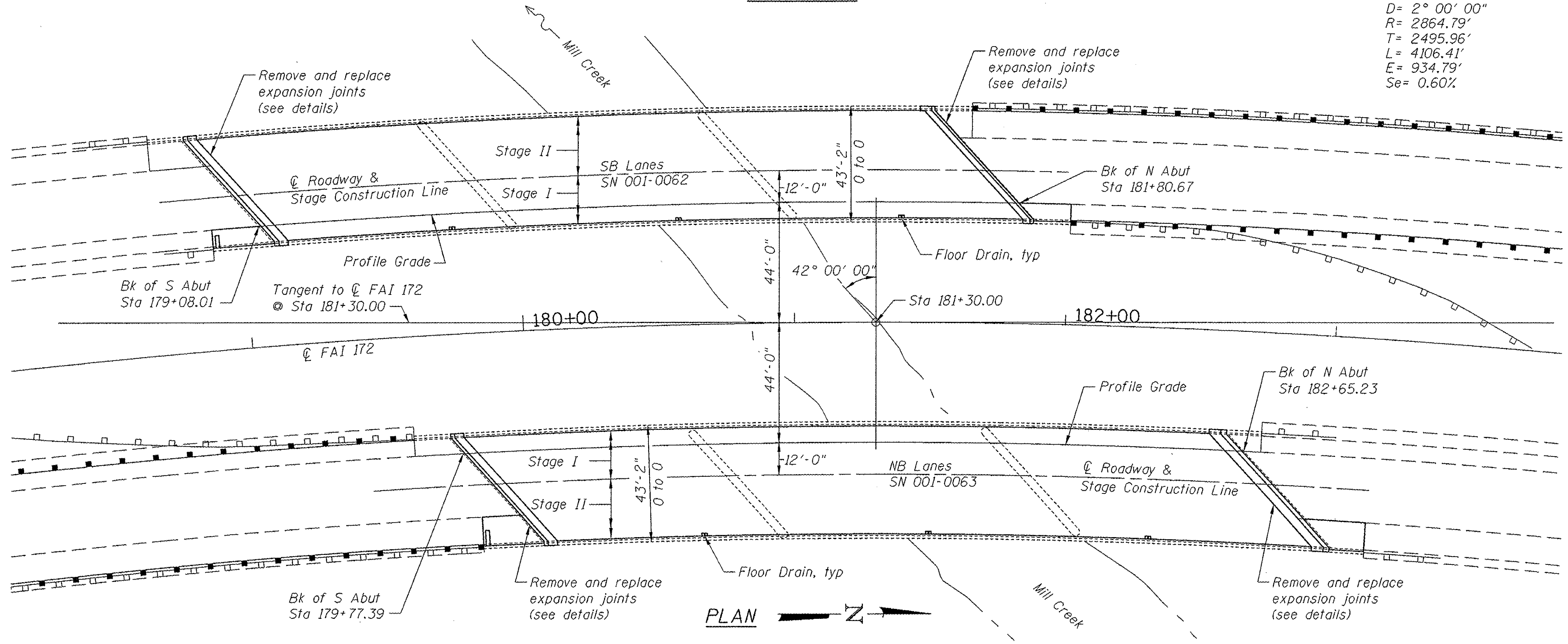
Traffic to be maintained utilizing stage construction.

No salvage.



ELEVATION

CURVE DATA
P.I. STA= 181+71.55
Δ= 82° 07' 41.75"
D= 2° 00' 00"
R= 2864.79'
T= 2495.96'
L= 4106.41'
E= 934.79'
Se= 0.60%



PLAN ——Z——

DESIGN STRESSES

FIELD UNITS

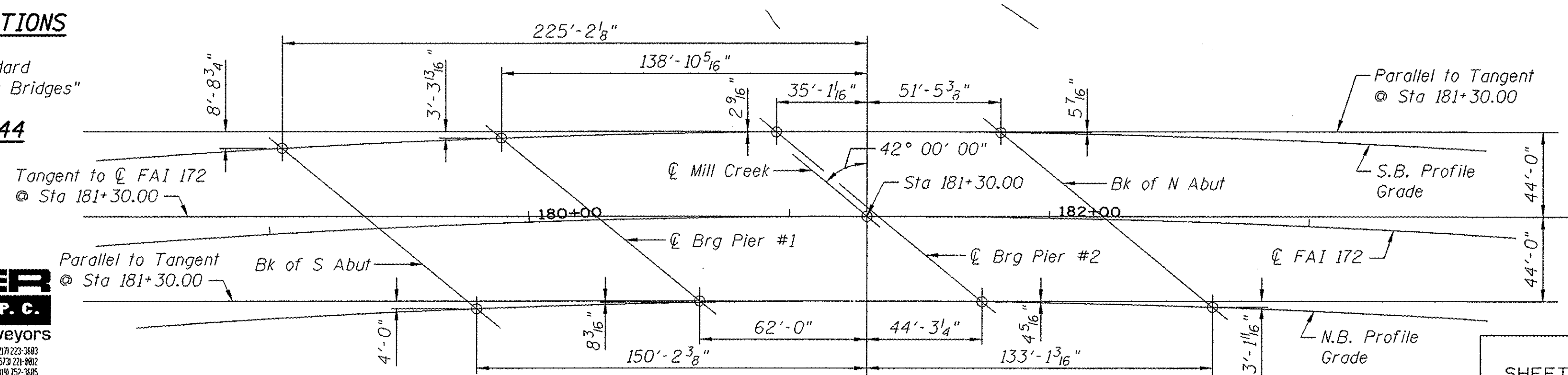
New Construction
f'c = 3,500 psi
fy = 60,000 psi (Reinforcement)

Existing Construction
f'c = 3,500 psi
fy = 60,000 psi (Reinforcement)
fs = 20,000 psi (M183)
(Structural Steel)

DESIGN SPECIFICATIONS

(New Construction)
2002 AASHTO "Standard Specifications for Highway Bridges"

LOADING HS20-44



TANGENT OFFSET SKETCH

DESIGNED	KTH
CHECKED	ADL
DRAWN	KTH
CHECKED	ADL

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

Reinforcement bars designated (E) shall be epoxy coated.

Reinforcement bars shall conform to the requirements of ASTM A 706 grade 60. See special provisions.

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.

Joint openings shall be adjusted according to article 520.04 of the standard specifications when the deck is poured at an ambient temperature other than 50 degrees fahrenheit.

All repair work associated with the bridges shall be completed by stage construction utilizing TC&P. Standard 701402 and with temporary concrete barrier located as detailed in these repair plans.

Prior to pouring the new concrete deck, all heavy or loose rust, loose mill scale, and other loose or potentially detrimental foreign material shall be removed from the surfaces in contact with 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.

As directed by the Engineer, existing construction accessories welded to the top flange of beams and girders shall be removed. The weld areas shall be ground flush and inspected for cracks using magnetic particle testing (MT) or dye penetrant testing (PT) by qualified personnel approved by the Engineer. Any cracks that can not be removed by grinding 1/2 in. deep shall be identified and reported to the Bureau of Bridges and Structures for further disposition. The cost of removing welded accessories, grinding and inspecting weld areas and grinding cracks will be paid for according to Article 109.04 of the Standard Specifications.

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

The "Bridge Approach Shoulder Removal" and "P.C. Concrete Bridge Approach Shoulder Pavement" shall be constructed to proposed grade, after the completion of the microsilica overlays and joint repairs. Stage traffic shall not drive on the new bridge approach shoulders.

Concrete Sealer shall apply to Top of Deck, Inside Face of Parapets, & Top of Parapets.

TOTAL BILL OF MATERIALS

ITEM	UNIT	TOTAL
CONCRETE REMOVAL	CU YD	32.0
REINFORCEMENT BARS, EPOXY COATED	POUND	3970
BAR SPLICERS	EACH	44
PREFORMED JOINT STRIP SEAL	FOOT	224.5
CONCRETE SUPERSTRUCTURE	CU YD	36.4
DECK SLAB REPAIR (FULL DEPTH, TYPE II)	SQ YD	52.0
DECK SLAB REPAIR (FULL DEPTH, TYPE I)	SQ YD	1.8
BRIDGE DECK MICROSILICA CONCRETE OVERLAY 2½"	SQ YD	2434
BRIDGE DECK HYDRO-SCARIFICATION ½"	SQ YD	2434
FRAMES AND GRATES TO BE ADJUSTED	EACH	2
BRIDGE APPROACH SHOULDER REMOVAL	SQ YD	67
P.C. CONCRETE BRIDGE APPROACH SHOULDER PAVEMENT	SQ YD	67
FLOOR DRAINS	EACH	6
BRIDGE DECK GROOVING	SQ YD	2379
CONCRETE SEALER	SQ FT	26599
RELOCATING NAME PLATES	EACH	2

STATE OF ILLINOIS
ALAN D. LUKENS
081-005167
QUINCY, ILLINOIS
LICENSED STRUCTURAL ENGINEER

2-17-10
Alan D. Lukens — Date
Licensed Structural Engineer
State of Illinois No. 081-005167
License Expires 11/30/10

GENERAL PLAN & ELEVATION
FAI 172 OVER MILL CREEK
SN 001-0062 & 0063

SHEET NO. 1 / 17 SHEETS	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	172	1-4B-1	ADAMS	165	135
			CONTRACT NO. 72A09		
	FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

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P:\09files\090044\Work Order 5 (PE 2 - I-72)\CADD_Sheets\Bridge Plans\SN001-0062-63\0010062_63-0672A09-001-GPE.dgn
2/17/2010

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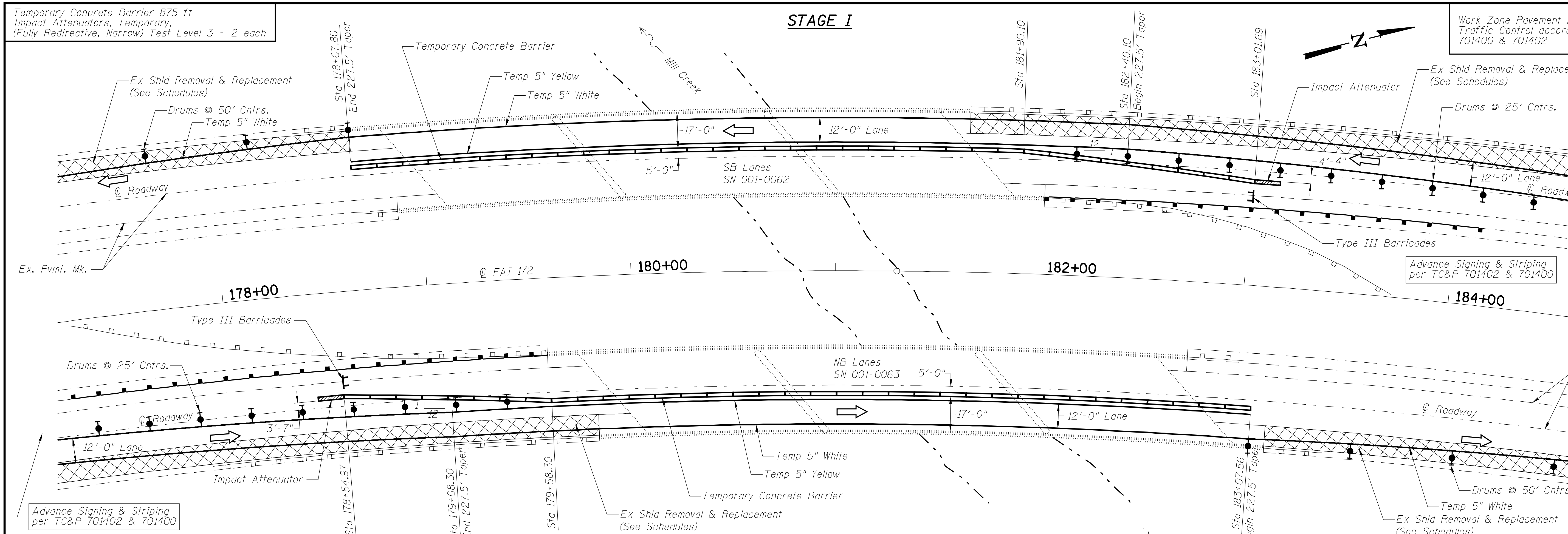
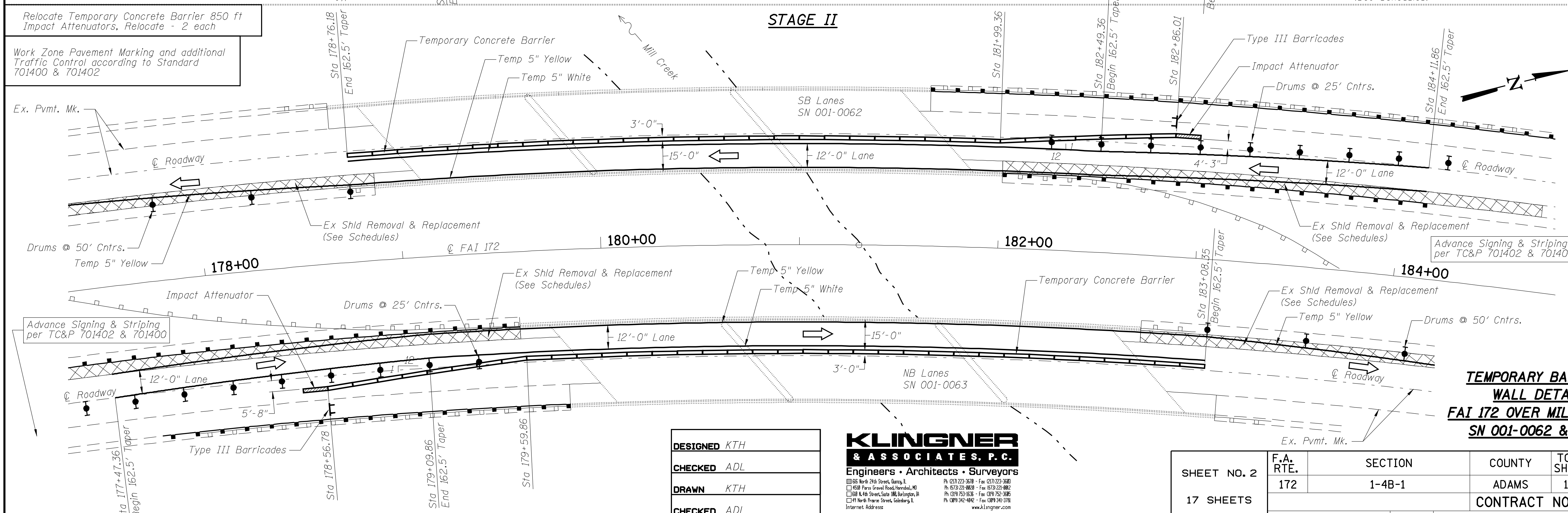
STAGE I



STAGE II



DESIGNED	KTH
CHECKED	ADL
DRAWN	KTH
CHECKED	ADL

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TEMPORARY BARRIER WALL DETAIL
FAI 172 OVER MILL CREEK
SN 001-0062 & 0063

	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
SHEET NO. 2	172	1-4B-1	ADAMS	165	136
17 SHEETS			CONTRACT NO. 72A09		
	FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

Klingner & Associates P.C.

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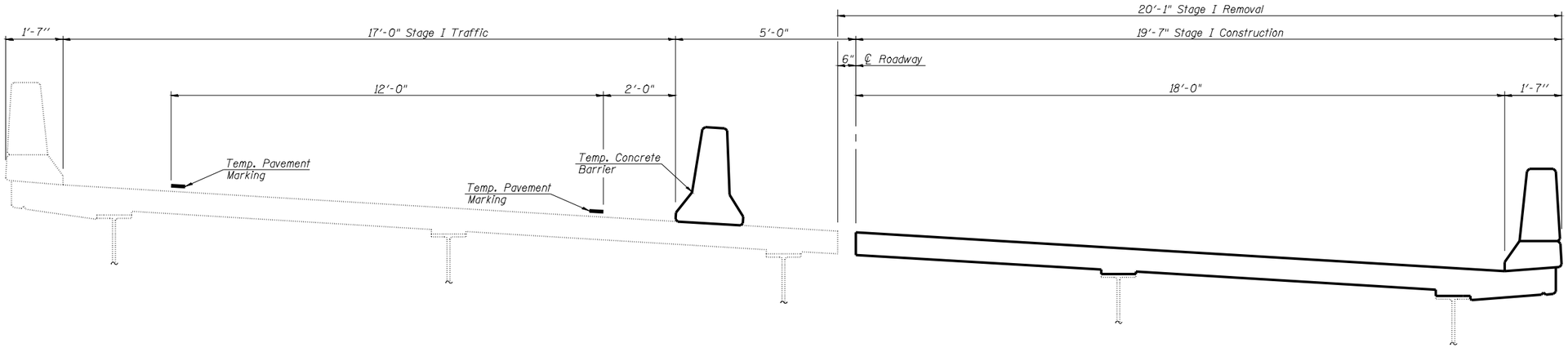
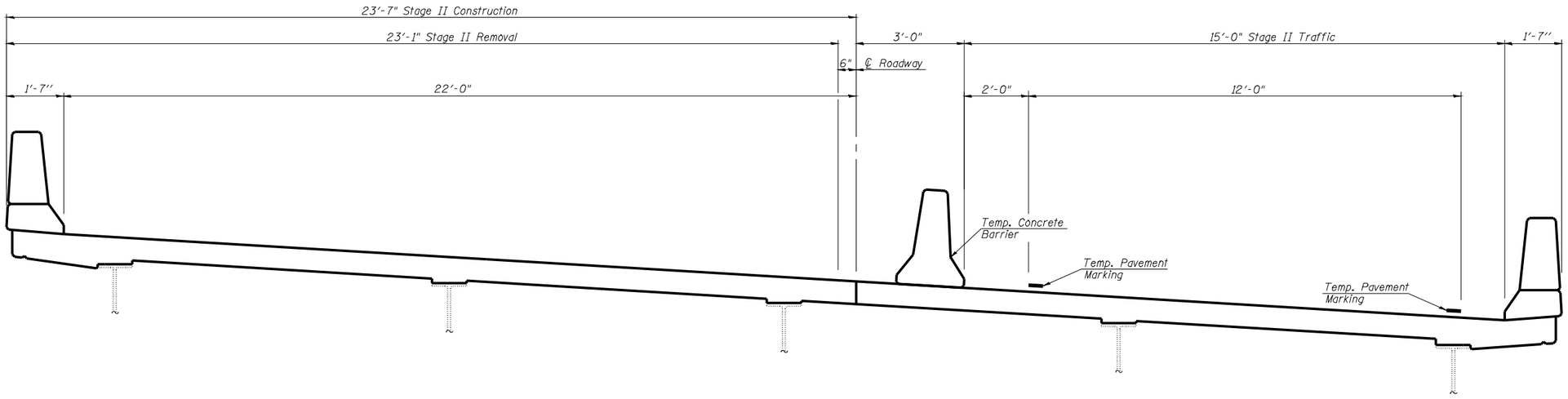


STAGE I CONSTRUCTION

(Looking North SN 001-0062)



STAGE II CONSTRUCTION

(Looking North SN 001-0062)

STAGING
FAI 172 OVER MILL CREEK
SN 001-0062 & 0063

DESIGNED	KTH
CHECKED	ADL
DRAWN	KTH
CHECKED	ADL

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SHEET NO. 3	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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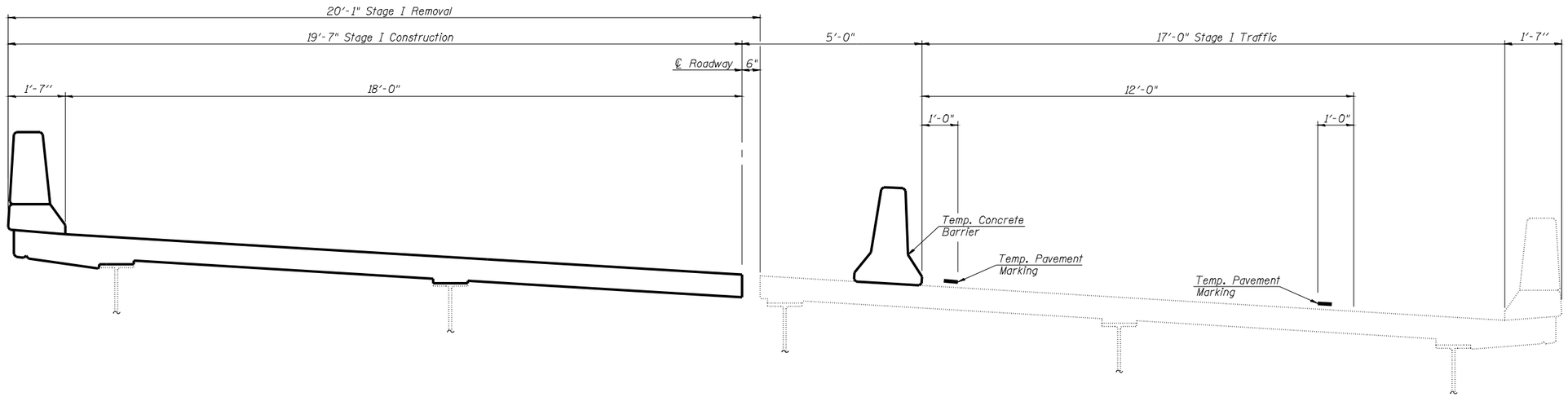
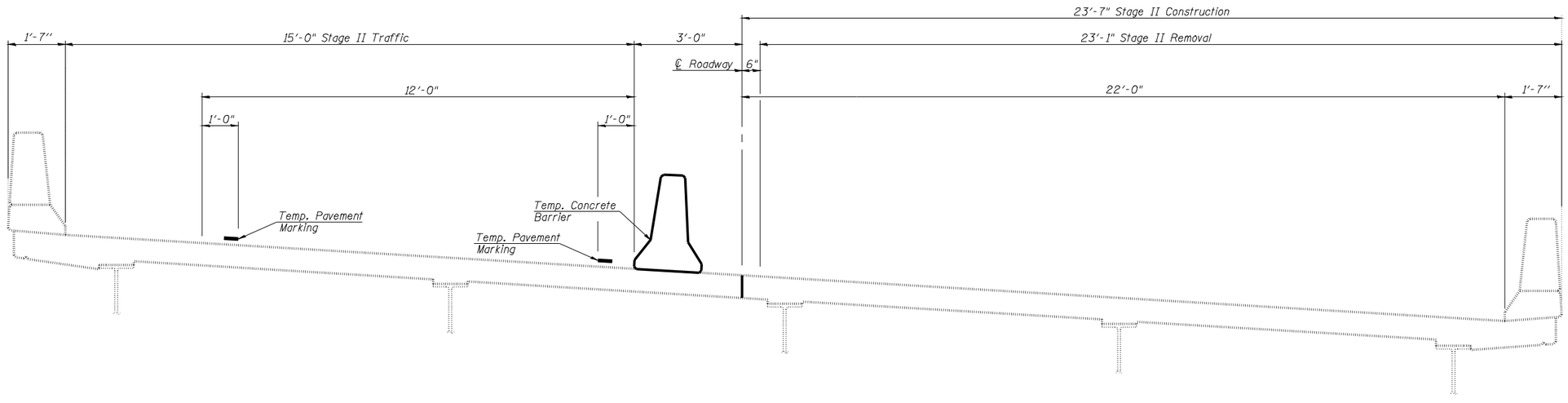
			CONTRACT NO. 72A09		
	FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



STAGE I CONSTRUCTION

(Looking North SN 001-0063)



STAGE II CONSTRUCTION

(Looking North SN 001-0063)

STAGING
FAI 172 OVER MILL CREEK
SN 001-0062 & 0063

DESIGNED	KTH
CHECKED	ADL
DRAWN	KTH
CHECKED	ADL

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SHEET NO. 4	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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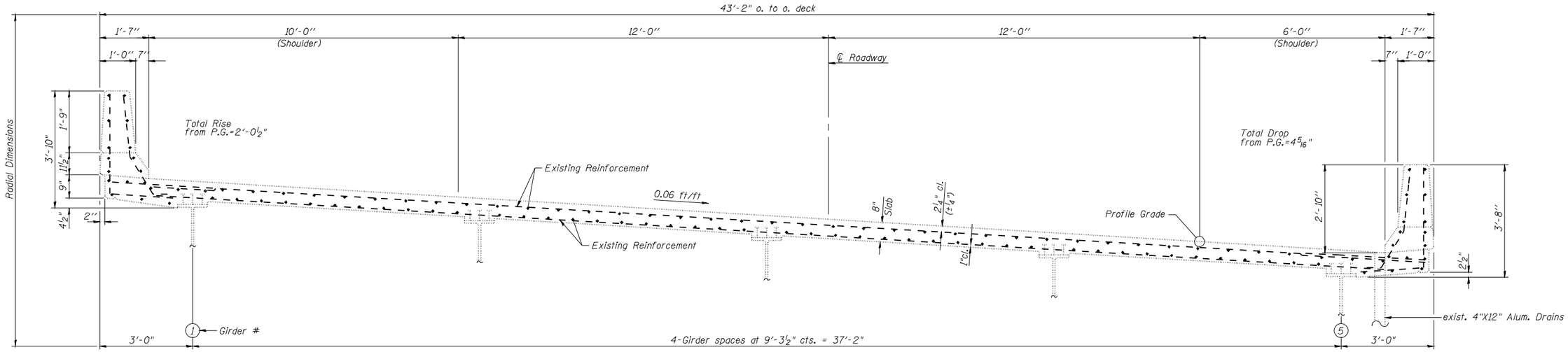
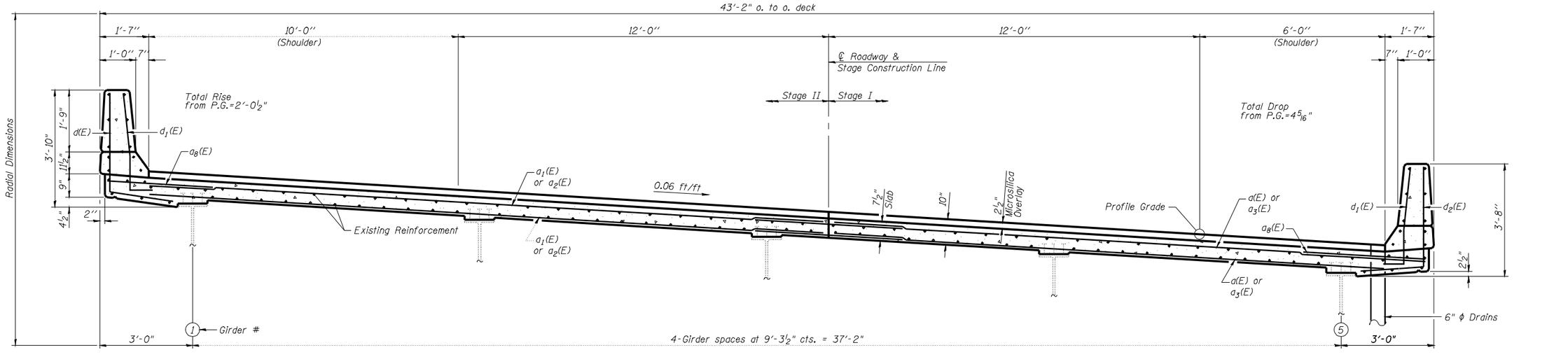
			CONTRACT NO. 72A09		
	FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



EXISTING CROSS SECTION

(Looking North SN 001-0062)



CROSS SECTION

(Looking North SN 001-0062)

BRIDGE REPAIR DETAILS
FAI 172 OVER MILL CREEK
SN 001-0062 & 0063

DESIGNED	KTH
CHECKED	ADL
DRAWN	KTH
CHECKED	ADL

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SHEET NO. 5	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
17 SHEETS	172	1-4B-1	ADAMS	165	139
			CONTRACT NO. 72A09		
	FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

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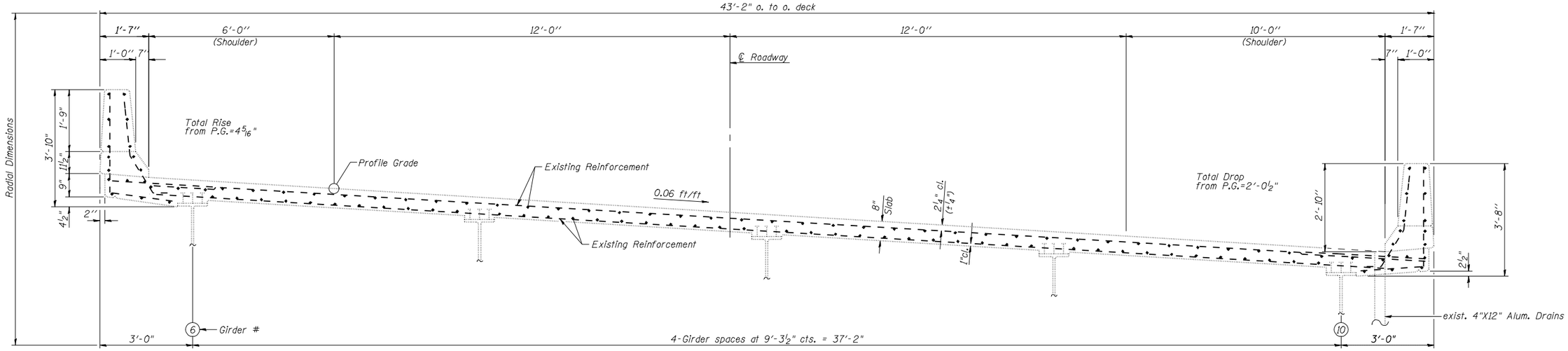
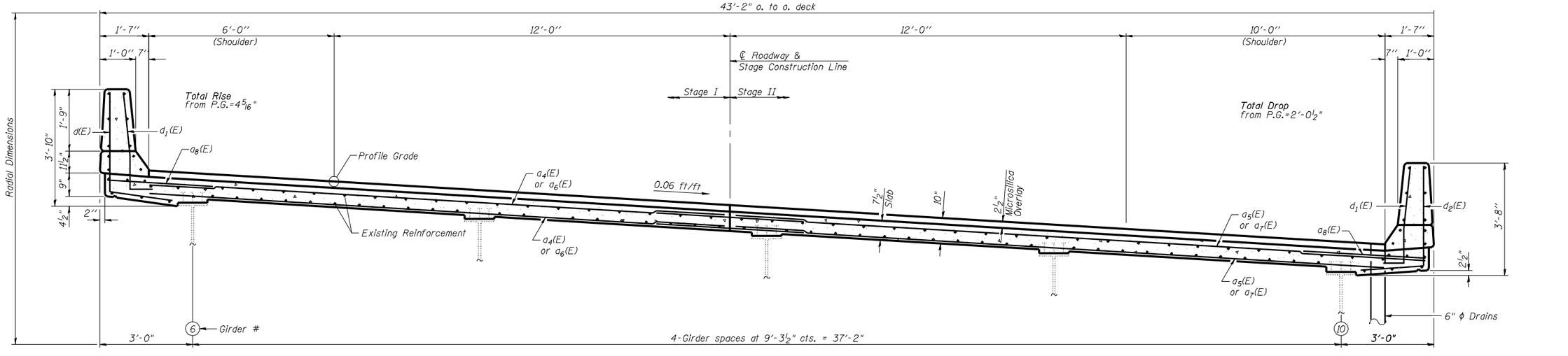


EXISTING CROSS SECTION

(Looking North SN 001-0063)



CROSS SECTION

(Looking North SN 001-0063)

DESIGNED	KTH
CHECKED	ADL
DRAWN	KTH
CHECKED	ADL

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BRIDGE REPAIR DETAILS
FAI 172 OVER MILL CREEK
SN 001-0062 & 0063

SHEET NO. 6	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
17 SHEETS	172	1-4B-1	ADAMS	165	140
			CONTRACT NO. 72A09		
	FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

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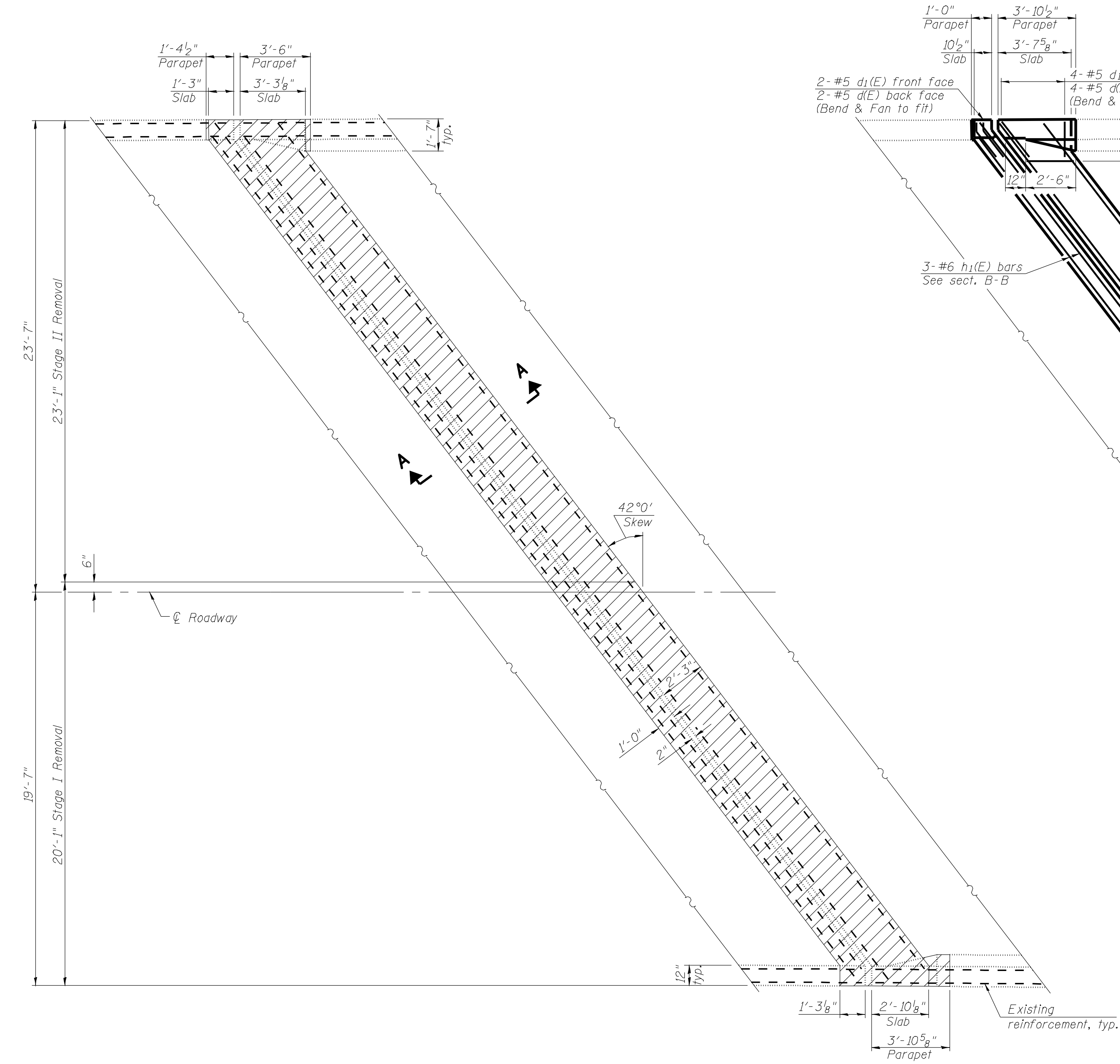
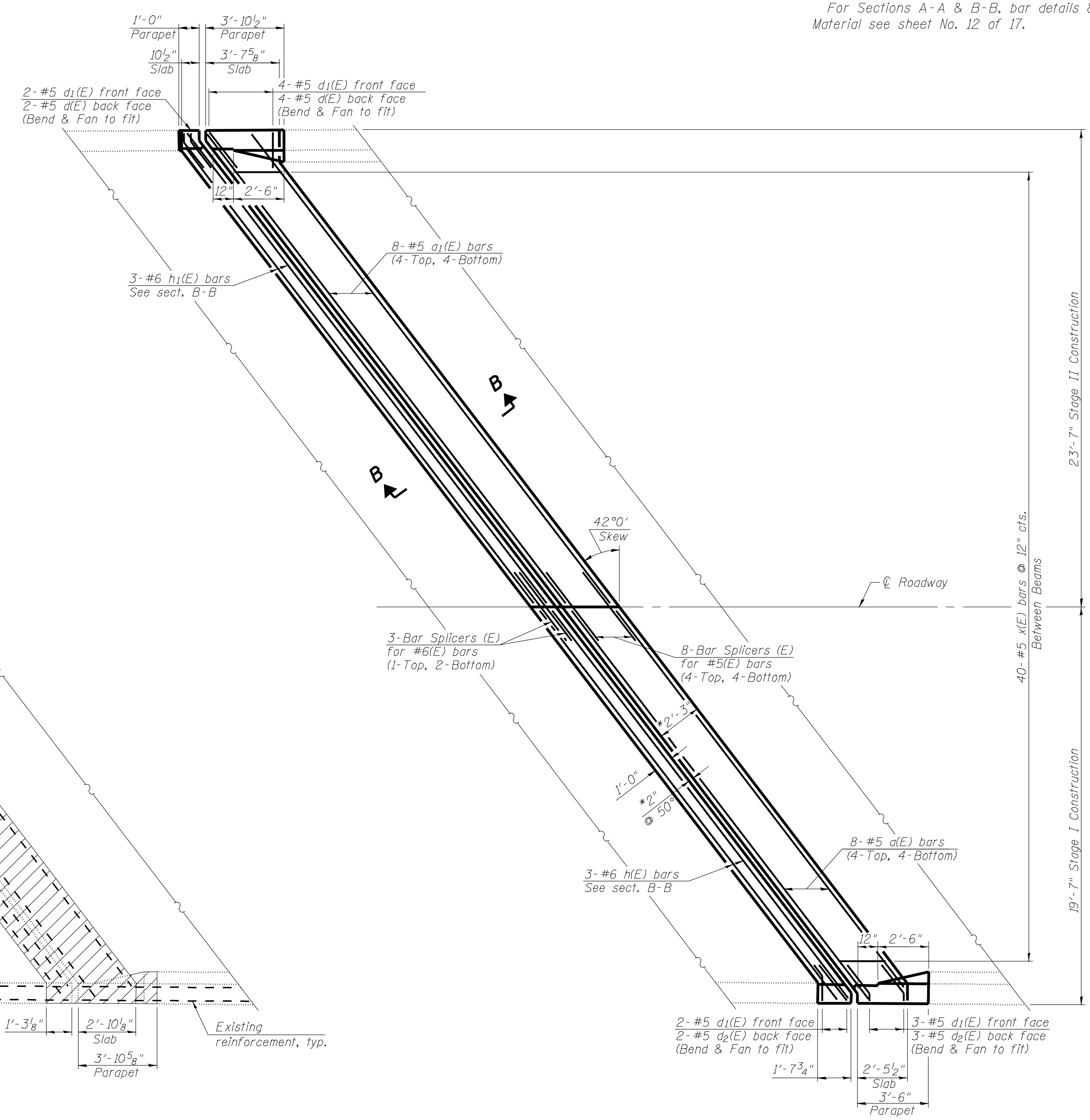
Notes:
Hatched areas indicate concrete removal.
For Sections A-A & B-B, bar details & Bill of Material see sheet No. 12 of 17.



PARTIAL REMOVAL PLAN

(South Abutment SN 001-0062)



PARTIAL PROPOSED PLAN

(South Abutment SN 001-0062)

N

ABUTMENT DETAILS
FAI 172 OVER MILL CREEK
SN 001-0062 & 0063

DESIGNED	KTH
CHECKED	ADL
DRAWN	KTH
CHECKED	ADL

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SHEET NO. 7	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
17 SHEETS	172	1-4B-1	ADAMS	165	141
			CONTRACT NO. 72A09		
	FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

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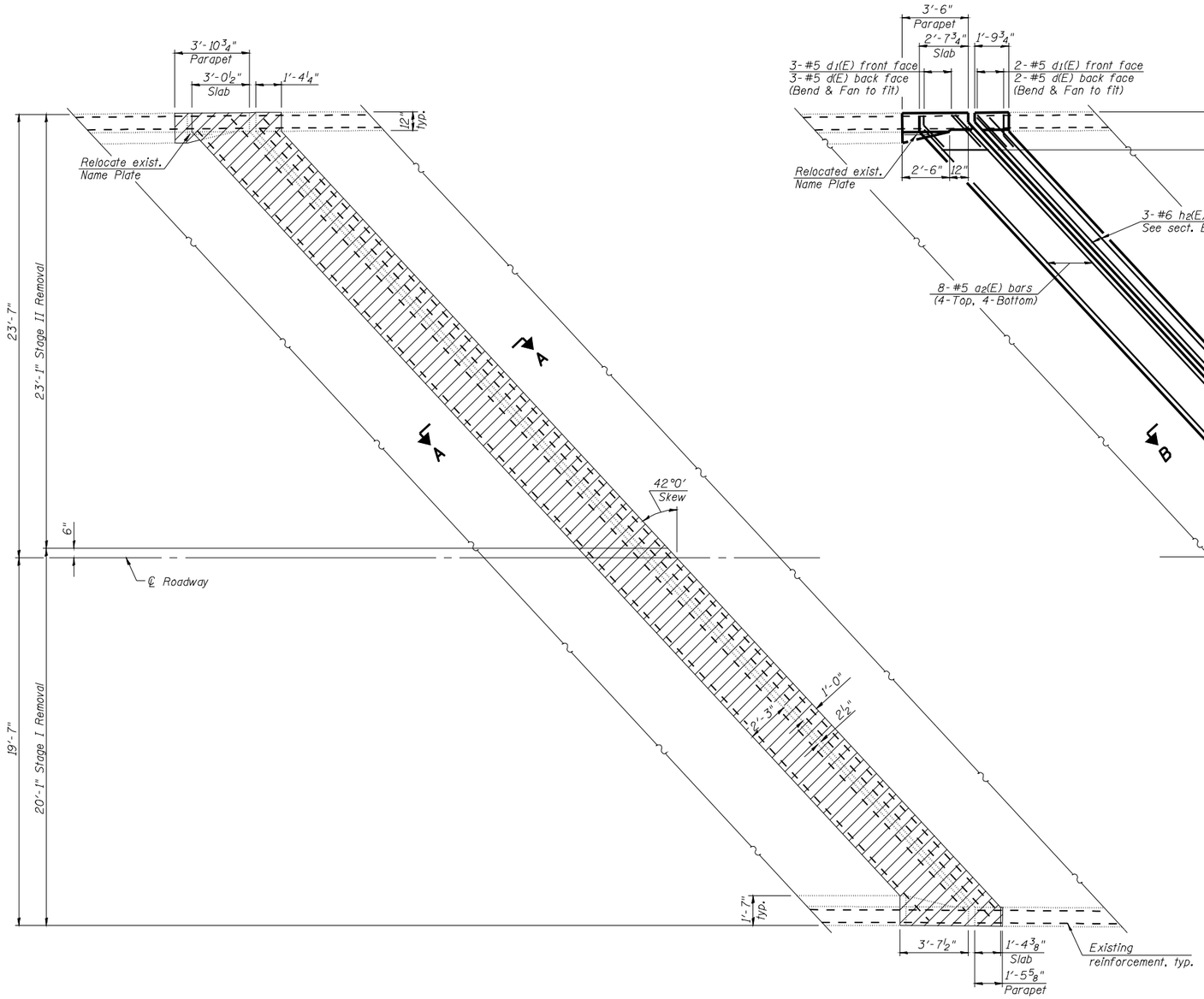
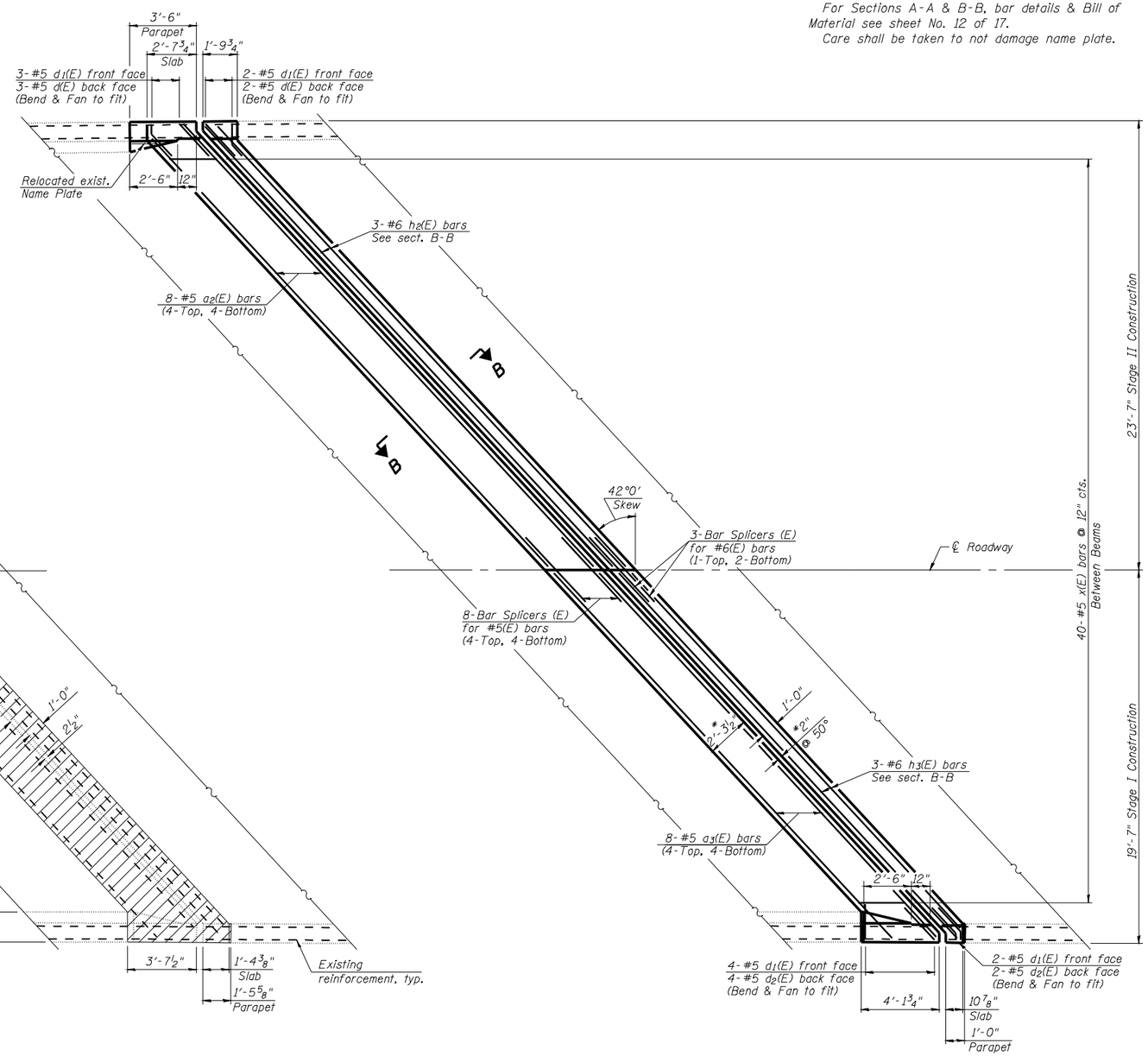
Notes:
Hatched areas indicate concrete removal.
For Sections A-A & B-B, bar details & Bill of Material see sheet No. 12 of 17.
Care shall be taken to not damage name plate.



PARTIAL REMOVAL PLAN

(North Abutment SN 001-0062)



PARTIAL PROPOSED PLAN

(North Abutment SN 001-0062)

ABUTMENT DETAILS
FAI 172 OVER MILL CREEK
SN 001-0062 & 0063

DESIGNED	KTH
CHECKED	ADL
DRAWN	KTH
CHECKED	ADL

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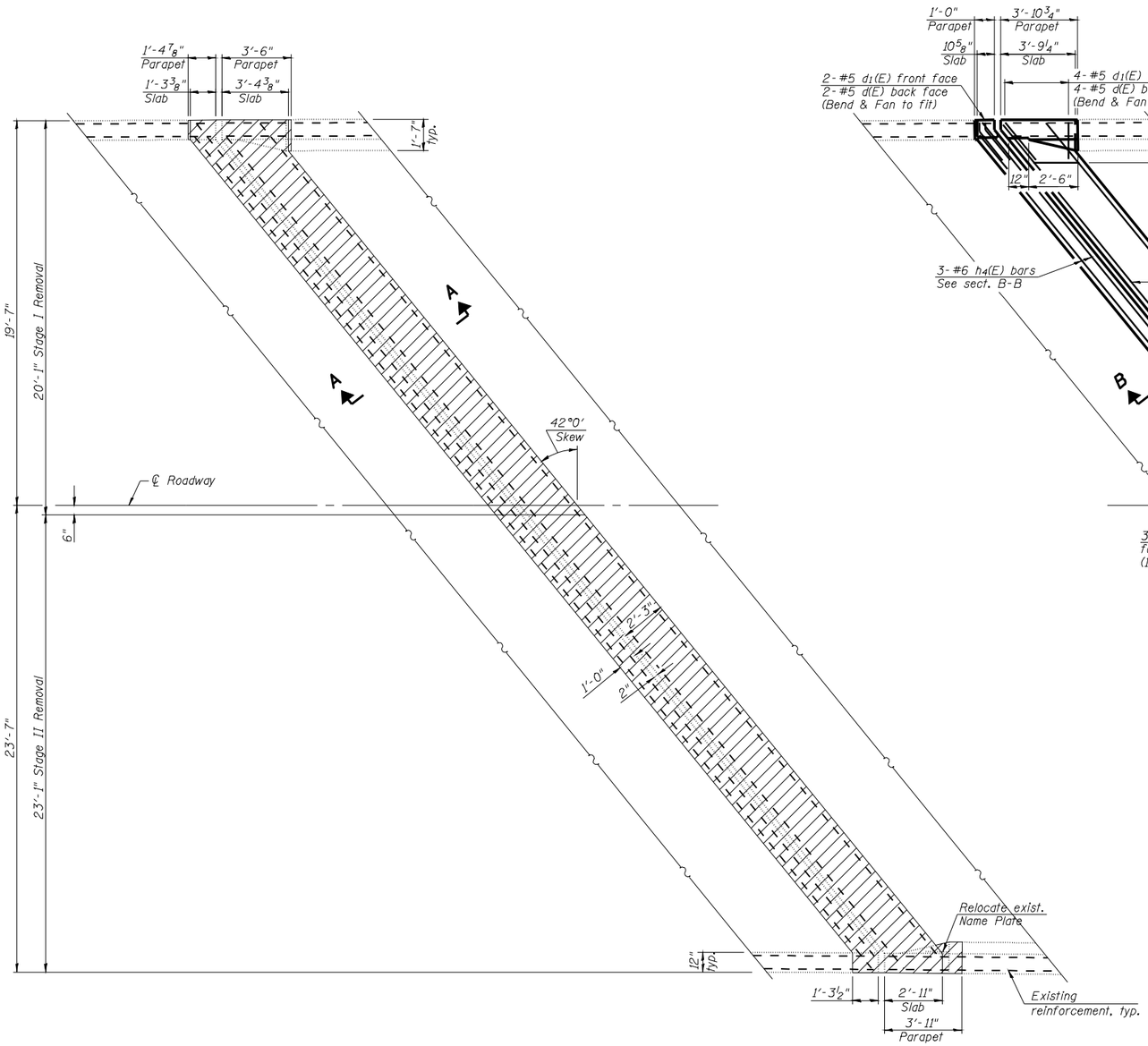
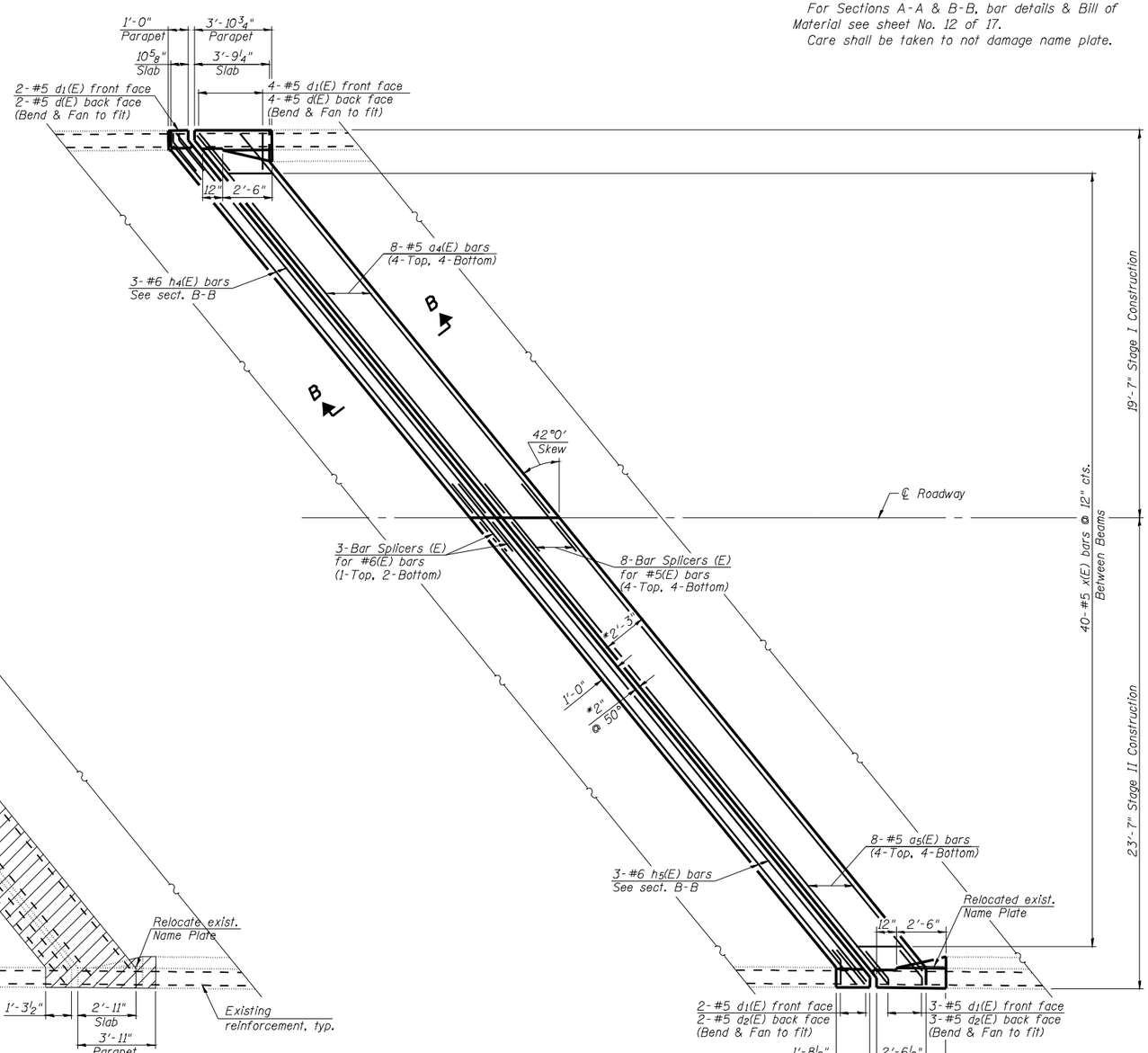
SHEET NO. 8	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
17 SHEETS	172	1-4B-1	ADAMS	165	142
			CONTRACT NO. 72A09		
	FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

Feb-01-2010 10:57:22AM

Notes:
Hatched areas indicate concrete removal.
For Sections A-A & B-B, bar details & Bill of Material see sheet No. 12 of 17.
Care shall be taken to not damage name plate.



PARTIAL REMOVAL PLAN
(South Abutment SN 001-0063)



PARTIAL PROPOSED PLAN
(South Abutment SN 001-0063)

N

ABUTMENT DETAILS
FAI 172 OVER MILL CREEK
SN 001-0062 & 0063

DESIGNED	KTH
CHECKED	ADL
DRAWN	KTH
CHECKED	ADL

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SHEET NO. 9	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
17 SHEETS	172	1-4B-1	ADAMS	165	143
			CONTRACT NO. 72A09		
	FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

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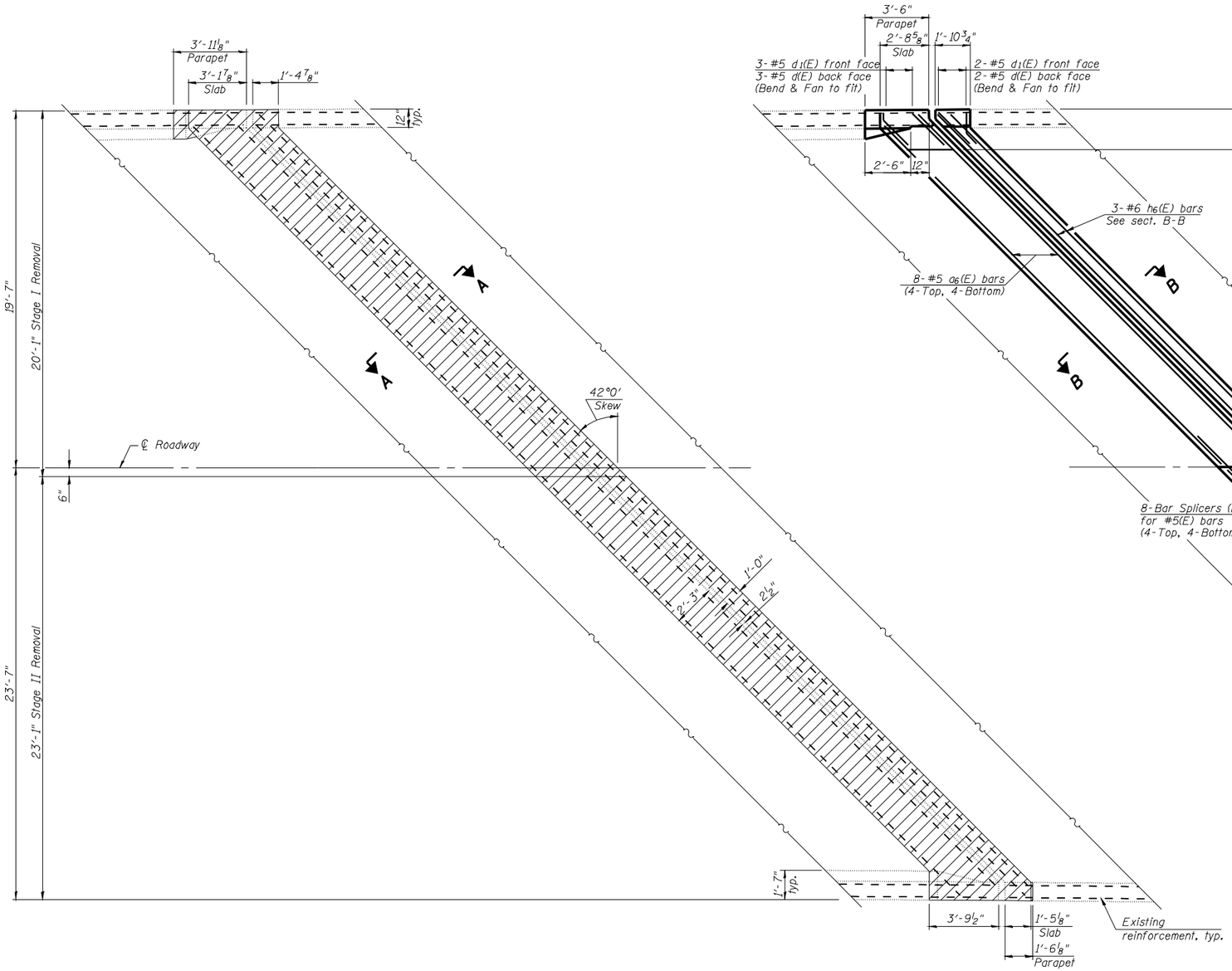
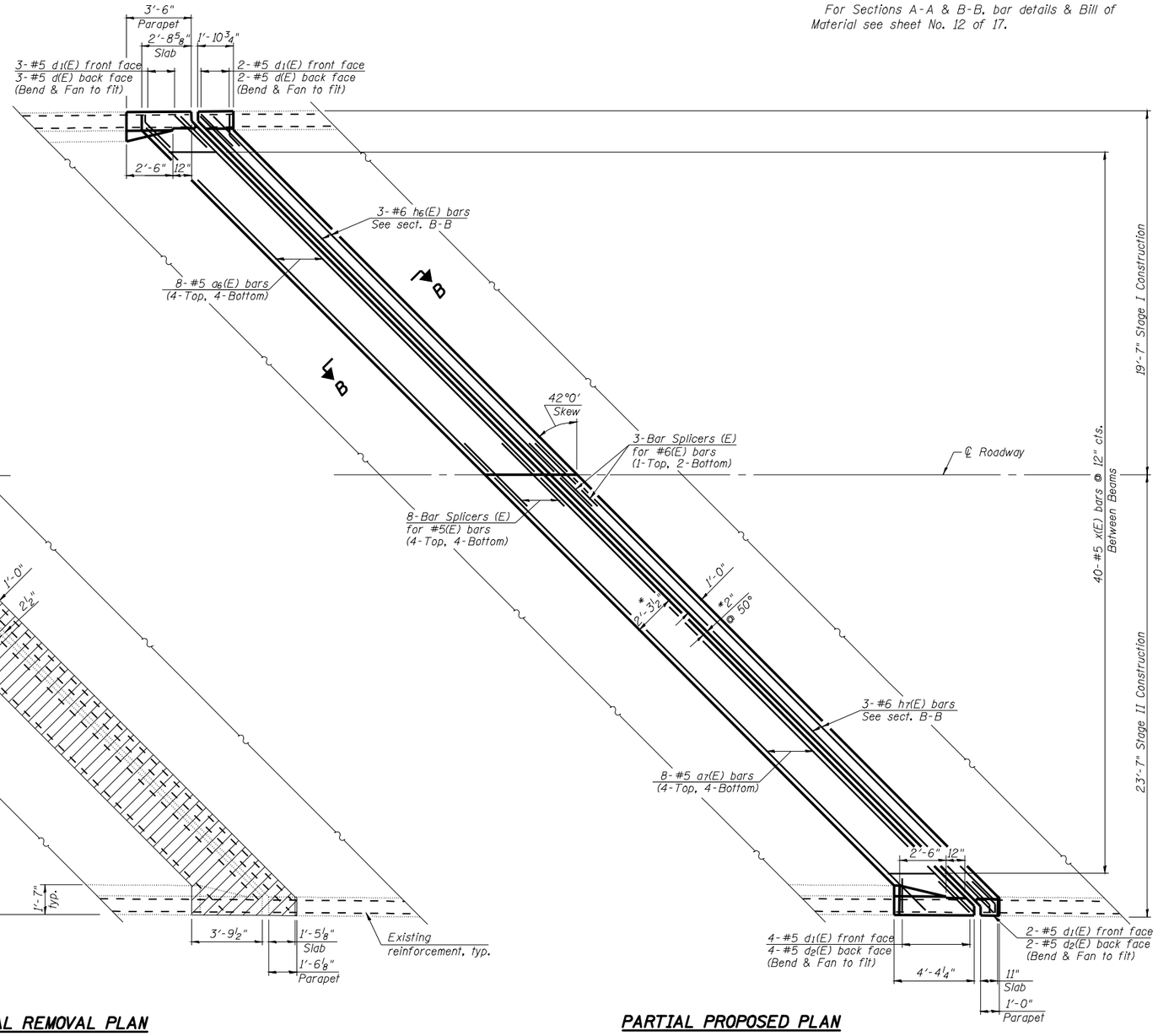
Notes:
Hatched areas indicate concrete removal.
For Sections A-A & B-B, bar details & Bill of Material see sheet No. 12 of 17.



PARTIAL REMOVAL PLAN

(North Abutment SN 001-0063)



PARTIAL PROPOSED PLAN

(North Abutment SN 001-0063)

N

ABUTMENT DETAILS
FAI 172 OVER MILL CREEK
SN 001-0062 & 0063

DESIGNED	KTH
CHECKED	ADL
DRAWN	KTH
CHECKED	ADL

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SHEET NO. 10	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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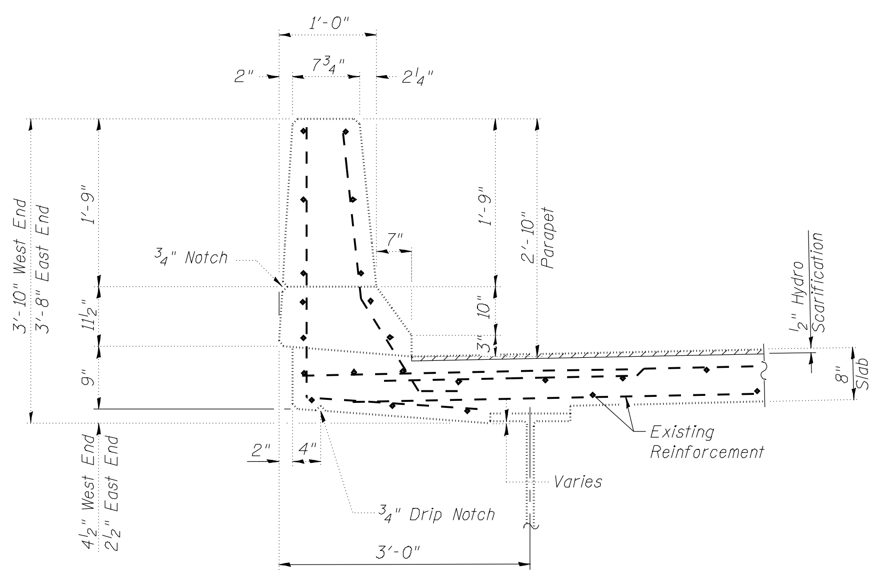
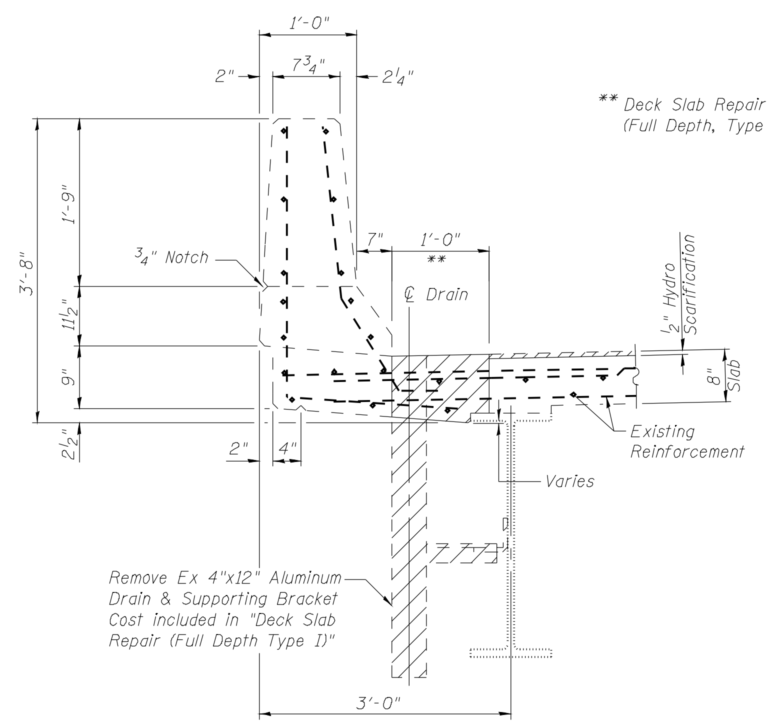
			CONTRACT NO. 72A09		
	FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

$FILE$

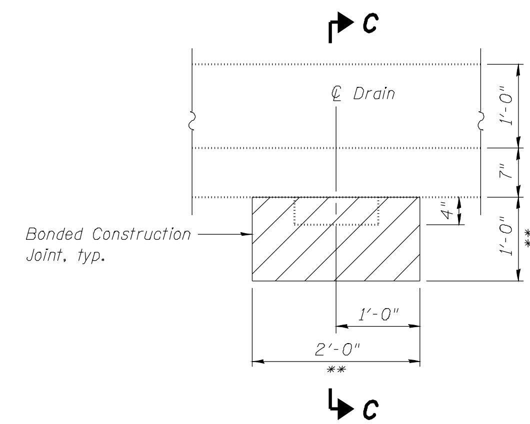


SECTION THRU EXISTING PARAPET

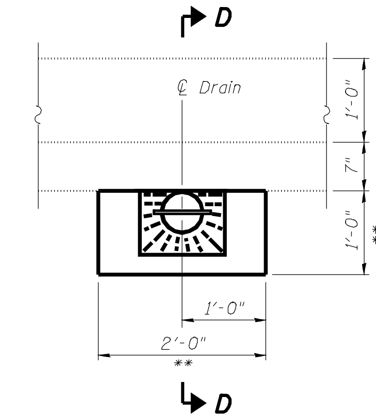


** Deck Slab Repair (Full Depth, Type I)

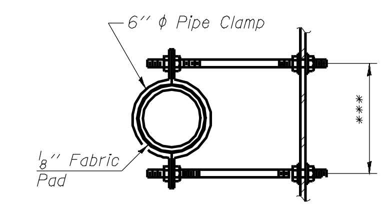
SECTION C-C
(East Parapet)



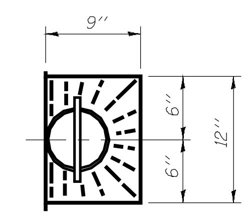
EXISTING DECK DRAIN REMOVAL



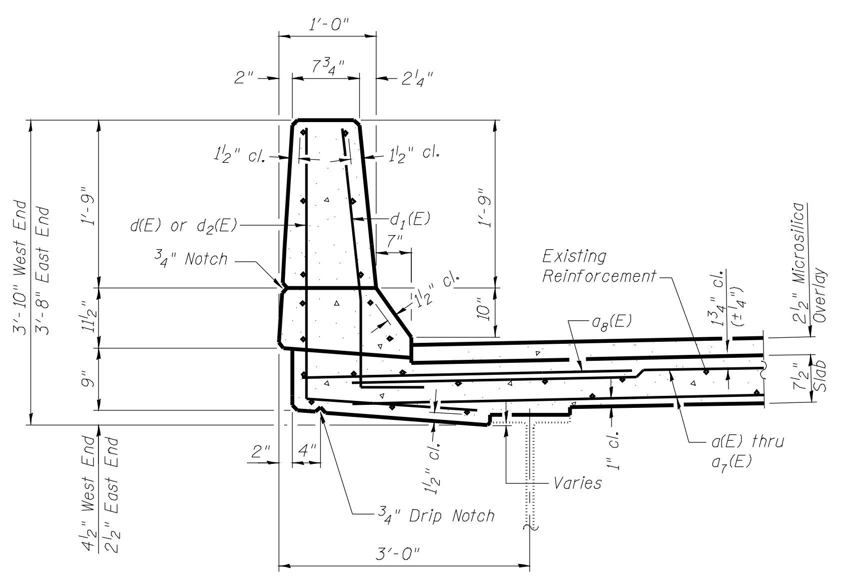
PROPOSED DECK DRAIN



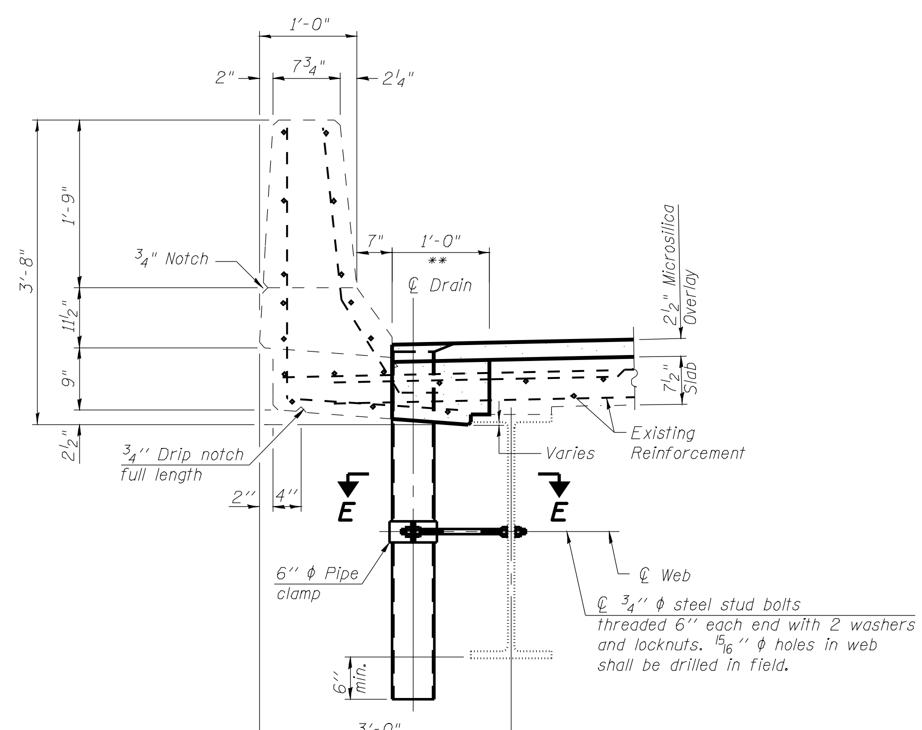
SECTION E-E
***Dimension as required by Pipe Clamp



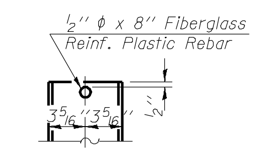
TOP PLAN



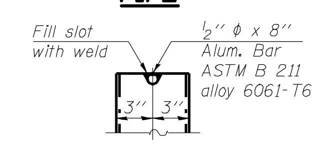
SECTION THRU PARAPET



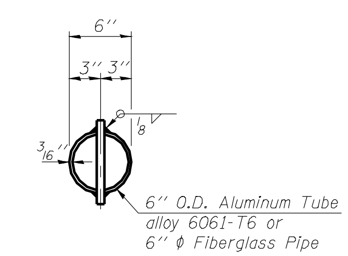
SECTION D-D
(East Parapet)



FIBERGLASS PIPE



ALUMINUM TUBE



TOP PLAN
(Showing Aluminum Tube)

Note:
Fiberglass pipe shall conform to ASTM D 2996, with short-time rupture strength hoop tensile stress of 30,000 p.s.i. minimum.

Notes:
Hatched areas indicate concrete sections to be removed and replaced. Perimeters of concrete removal areas shall be saw cut ¾" prior to the removal of concrete.
Existing reinforcement bars shown are to be cleaned and incorporated into the new construction.

DESIGNED	KTH
CHECKED	ADL
DRAWN	KTH
CHECKED	ADL

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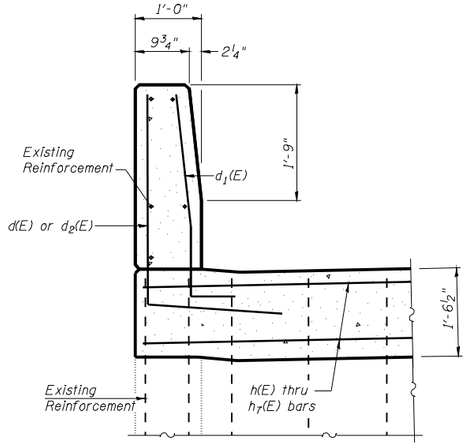
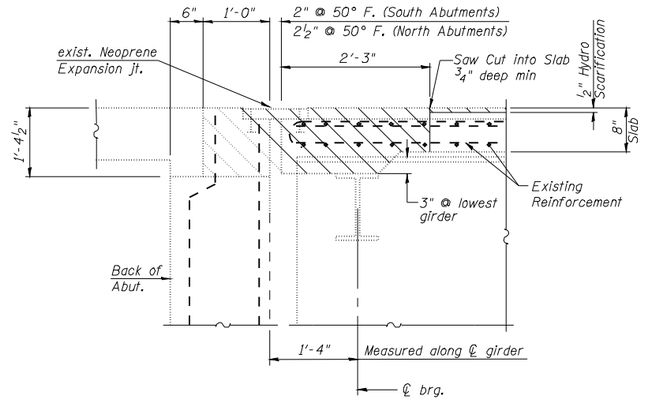
ABUTMENT DETAILS
FAI 172 OVER MILL CREEK
SN 001-0062 & 0063

SHEET NO. 11	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	172	1-4B-1	ADAMS	165	145
17 SHEETS	CONTRACT NO. 72A09				
	FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



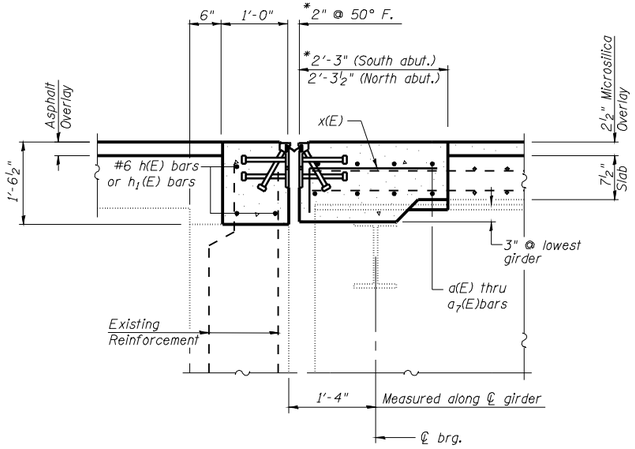
SECTION THRU APPROACH PARAPET



SECTION A-A

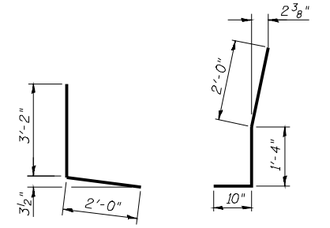
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a(E)	8	#5	23'-9"	
a_1(E)	8	#5	28'-9"	
a_2(E)	8	#5	31'-2"	
a_3(E)	8	#5	25'-6"	
a_4(E)	8	#5	24'-2"	
a_5(E)	8	#5	29'-6"	
a_6(E)	8	#5	26'-6"	
a_7(E)	8	#5	32'-6"	
a_8(E)	32	#5	4'-0"	
d(E)	22	#5	5'-2"	
d_1(E)	44	#5	4'-2"	
d_2(E)	22	#5	5'-2"	
h(E)	3	#6	23'-9"	
h_1(E)	3	#6	28'-9"	
h_2(E)	3	#6	31'-2"	
h_3(E)	3	#6	25'-6"	
h_4(E)	3	#6	24'-2"	
h_5(E)	3	#6	29'-6"	
h_6(E)	3	#6	26'-6"	
h_7(E)	3	#6	32'-6"	
x(E)	160	#5	3'-4"	
Reinforcement Bars, Epoxy Coated			Pound	3970
Bar Splicers			Each	44
Concrete Superstructure			Cu. Yds.	36.8



SECTION B-B

* Dimensions are based on a Rolled Rail Strip Seal Joint. If the Contractor elects to use the Welded Rail Strip Seal Joint, deck dimensions may require adjustments to satisfy the details on Sheet No. 13 of 17.



Notes:
Hatched areas indicate concrete sections to be removed and replaced. Perimeters of concrete removal areas shall be saw cut ¾" prior to the removal of concrete.
Existing reinforcement bars shown are to be cleaned and incorporated into the new construction.

DESIGNED	KTH
CHECKED	ADL
DRAWN	KTH
CHECKED	ADL

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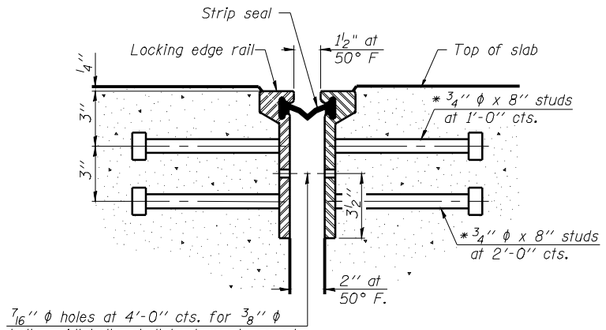
ABUTMENT DETAILS
FAI 172 OVER MILL CREEK
SN 001-0062 & 0063

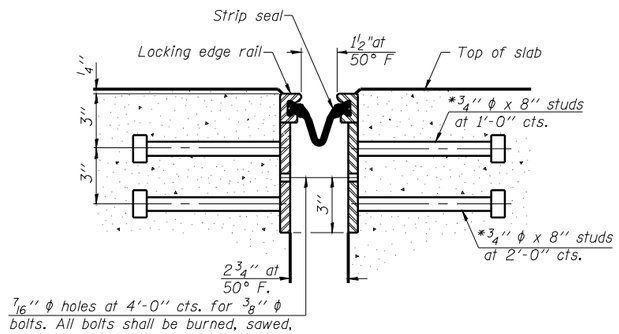
SHEET NO. 12	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
17 SHEETS	172	1-4B-1	ADAMS	165	146
			CONTRACT NO. 72A09		
	FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

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

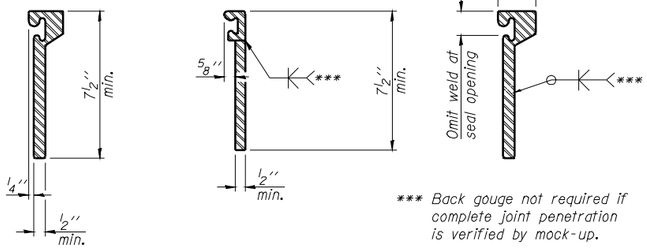


7/16" ϕ holes at 4'-0" cts. for ⅜" ϕ bolts. All bolts shall be burned, sawed, or chipped off flush with the plates after forms are removed, typ.



7/16" ϕ holes at 4'-0" cts. for ⅜" ϕ bolts. All bolts shall be burned, sawed, or chipped off flush with the plates after forms are removed, typ.

SECTION THRU ROLLED RAIL JOINT



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

ROLLED EXTRUDED RAIL

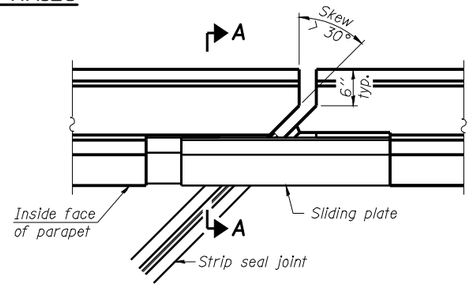
WELDED RAIL

LOCKING EDGE RAIL SPLICE

The inside of the locking edge rail groove shall be free of weld residue.

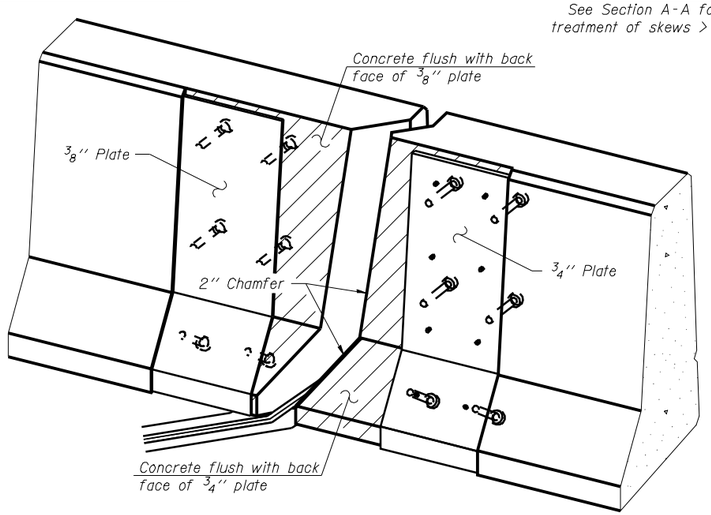
Rolled rail shown, welded rail similar.

LOCKING EDGE RAILS

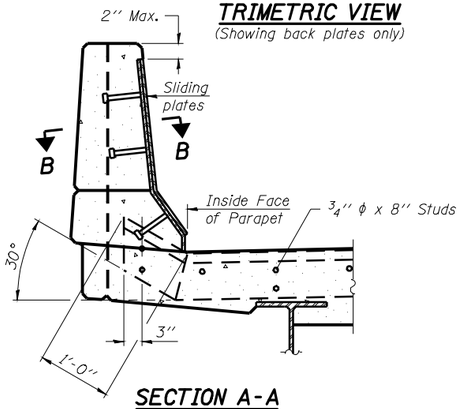


PLAN

SECTION THRU WELDED RAIL JOINT

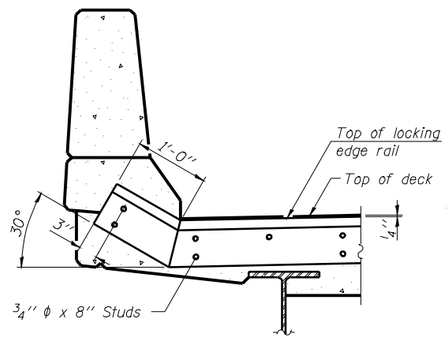


TRIMETRIC VIEW
(Showing back plates only)



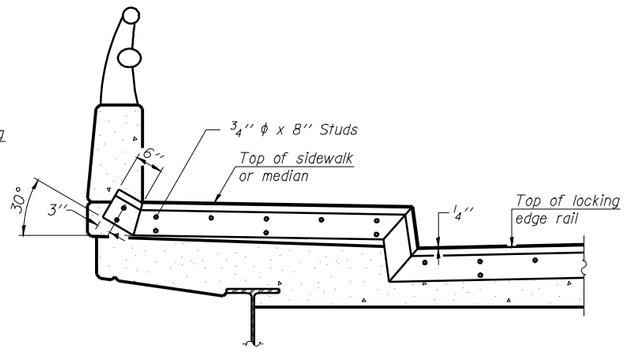
SECTION A-A

POINT BLOCK DETAILS
(for skews > 30°)



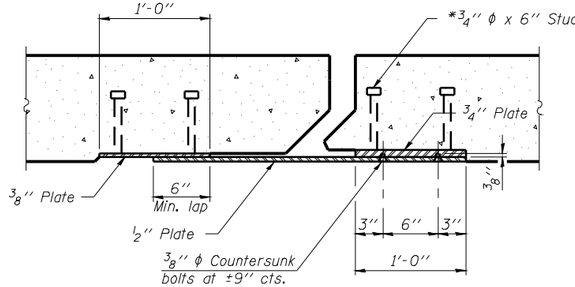
AT PARAPET

See Section A-A for end treatment of skews > 30°.



AT SIDEWALK OR MEDIAN

Shorter plates with a single row of studs at 12" cts. may be necessary on medians which are shallower than 9". See manufacturer's recommendation.



SECTION B-B

TYPICAL END TREATMENTS

Notes:

The strip seal shall be made continuous and shall have a minimum thickness of ¼". The configuration of the strip seal shall match the configuration of the Locking Edge Rails. Open or "webbed" strip seal gland configurations are not permitted. The gland shall be sized for a maximum rated movement of 4 inches.

The Locking Edge Rails depicted are conceptual only, except for the minimum dimensions shown. The actual configuration of the Locking Edge Rails and matching strip seal may vary from manufacturer to manufacturer. Flanged edge rails will not be allowed. Locking Edge Rails may be spliced at slope discontinuities.

The manufacturer's recommended installation methods shall be followed.

The joint opening and deck dimensions detailed on the superstructure are based on a rolled rail expansion joint. If the Contractor elects to use the welded rail expansion joint, the opening and deck dimensions shall be modified according to the dimensions detailed on this sheet. Required modifications shall be made at no additional cost to the State.

All steel components shall be galvanized after fabrication according to Article 520.03 of the Standard Specifications.

Maximum space between rail segments at stage lines shall be 3/16", sealed with a suitable sealant.

BILL OF MATERIAL

Item	Unit	Total
Preformed Joint Strip Seal	Foot	224.5

DESIGNED	KTH
CHECKED	ADL
DRAWN	KTH
CHECKED	ADL

EJ-SSJ

11-1-09

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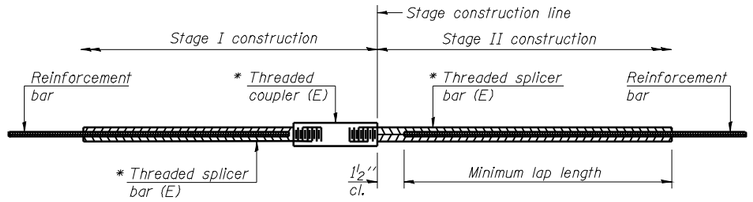
PREFORMED JOINT STRIP SEAL
STRUCTURE NO. 001-0062 & 0063

SHEET NO. 13	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
17 SHEETS	172	1-4B-1	ADAMS	165	147
			CONTRACT NO. 72A09		
	FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



STANDARD BAR SPLICER ASSEMBLY

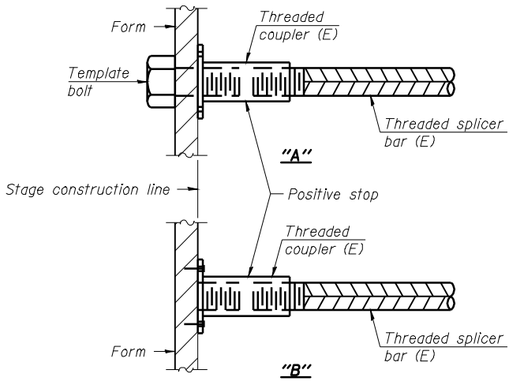
Minimum Lap Lengths				
Bar size to be spliced	Table 1	Table 2	Table 3	Table 4
3, 4	1'-5"	1'-11"	2'-1"	2'-4"
5	1'-9"	2'-5"	2'-7"	2'-11"
6	2'-1"	2'-11"	3'-1"	3'-6"
7	2'-9"	3'-10"	4'-2"	4'-8"
8	3'-8"	5'-1"	5'-5"	6'-2"
9	4'-7"	6'-5"	6'-10"	7'-9"

Table 1: Black bar, 0.8 Class C
Table 2: Black bar, Top bar lap, 0.8 Class C
Table 3: Epoxy bar, 0.8 Class C
Table 4: Epoxy bar, Top bar lap, 0.8 Class C

Threaded splicer bar length = min. lap length + $1\frac{1}{2}$" + thread length

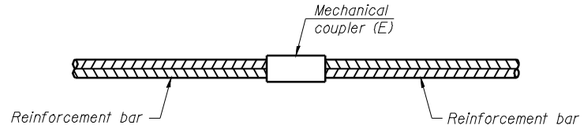
* Epoxy not required on Bar Splicer Assembly components used in conjunction with black bars.

Location	Bar size	No. assemblies required	Table for minimum lap length
Deck	#5	32	Table 3
Abutment	#6	12	Table 3



INSTALLATION AND SETTING METHODS

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



STANDARD MECHANICAL SPLICER

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 special provision for Mechanical Splicers.

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

DESIGNED	KTH
CHECKED	ADL
DRAWN	KTH
CHECKED	ADL

BSD-1

11-1-09

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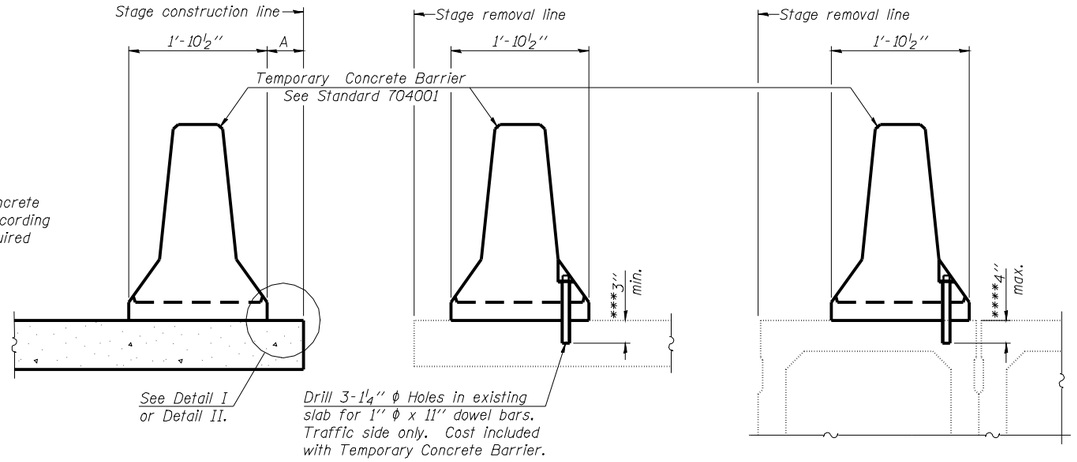
BAR SPLICER ASSEMBLY AND MECHANICAL SPLICER DETAILS STRUCTURE NO. 001-0062 & 0063

SHEET NO. 14	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
17 SHEETS	172	1-4B-1	ADAMS	165	148
			CONTRACT NO. 72A09		
	FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

When "A" is 3'-6" or less, the temporary concrete barrier shall be anchored to the new slab according to Detail I or Detail II. No anchorage is required when "A" is greater than 3'-6".



NEW SLAB | **EXISTING SLAB** | **EXISTING DECK BEAM**

NOTES

Detail I - With Bar Splicer or Couplers:
Connect one (1) 1"x7"x10" steel ℄ to the top layer of couplers with 2-⅝" ϕ bolts screwed to coupler at approximate ℄ of each barrier panel.

Detail II - With Extended Reinforcement Bars:
Connect one (1) 1"x7"x 10" steel ℄ to the concrete slab or concrete wearing surface with 2-⅝" ϕ Expansion Anchors or cast in place inserts spaced between the top layer of reinforcement at approximate ℄ of each barrier panel.

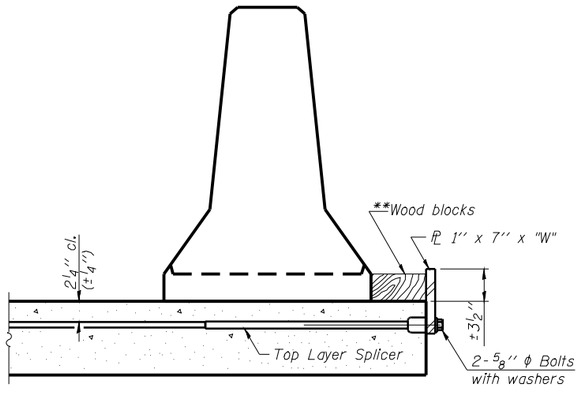
Cost of anchorage is included with Temporary Concrete Barrier.

The 1" x 7" x 10" plate shall not be removed until stage II construction forms and all reinforcement bars are in place and the concrete is ready to be placed.

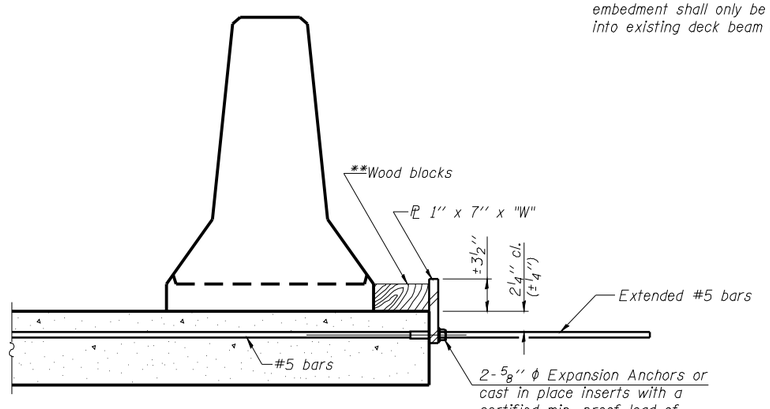
SECTIONS THRU SLAB OR DECK BEAM

*** Dimension shown is minimum required embedment into concrete. If hot-mix asphalt wearing surface is present, minimum embedment shall be in addition to wearing surface depth.

**** If existing deck beam is to remain in place after stage construction, embedment shall only be into wearing surface and not into existing deck beam concrete.



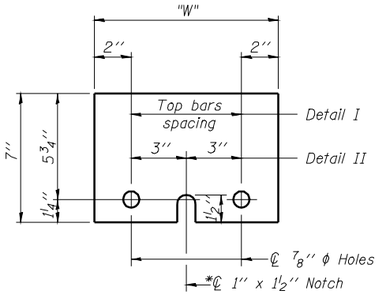
DETAIL I



DETAIL II

** Wood blocks may be omitted when required to provide minimum stage traffic lane width. When the wood blocks are omitted, the concrete barrier shall be in direct contact with the steel retainer plate.

"W" = Top bars spacing + 4"



STEEL RETAINER ℄ 1" x 7" x 10"

* Required only with Detail II

TEMPORARY CONCRETE BARRIER FOR STAGE CONSTRUCTION STRUCTURE NO. 001-0062 & 0063

DESIGNED	KTH
CHECKED	ADL
DRAWN	KTH
CHECKED	ADL

R-27

11-1-09

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SHEET NO. 15	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
17 SHEETS	172	1-4B-1	ADAMS	165	149
			CONTRACT NO. 72A09		
	FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

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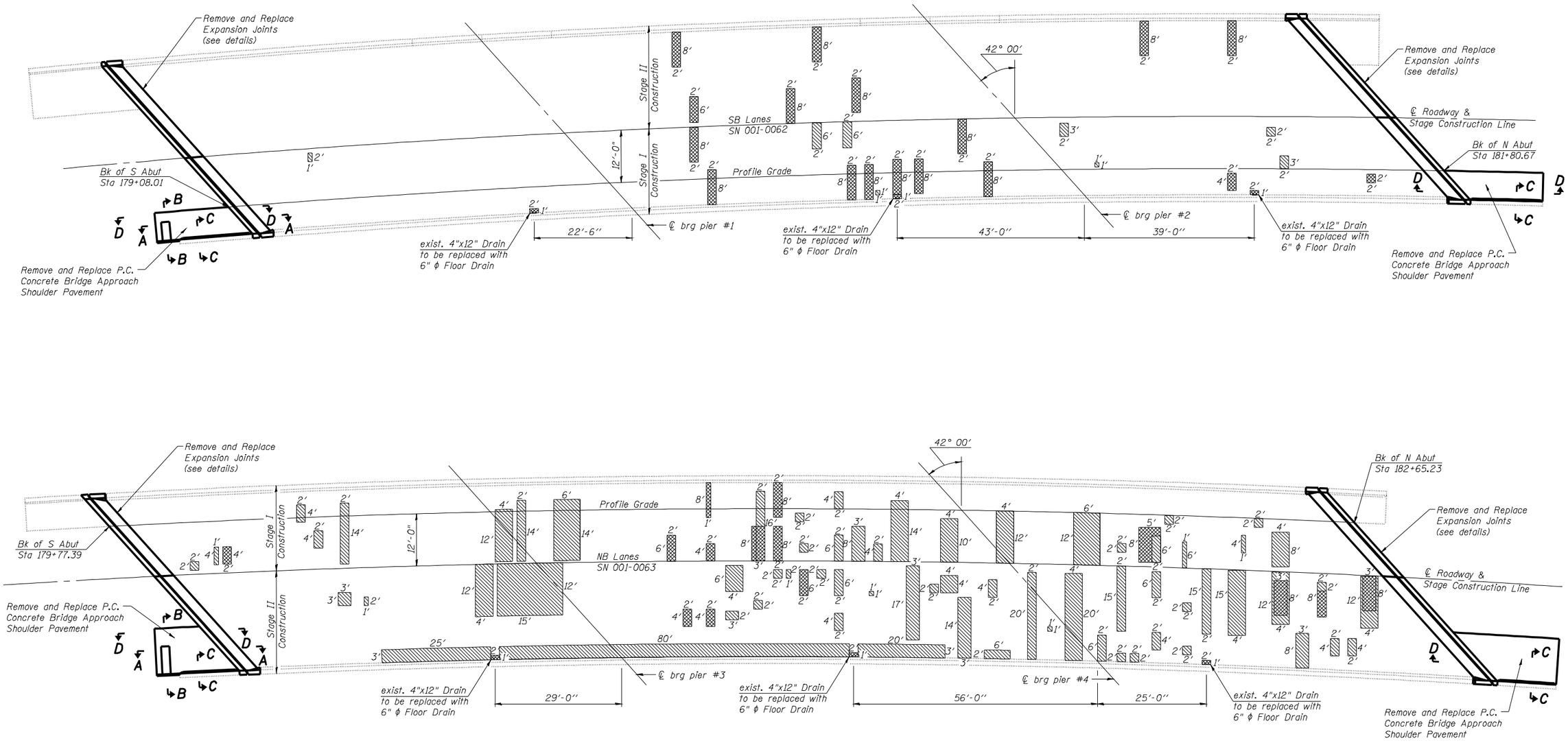

PLAN

Deck Slab Repair (Partial Depth) - 207.9 SQ. YD.
Note: Partial Depth Repair shall be achieved by bridge deck hydro-scarification and filled with microsilica concrete overlay. Cost included in "BRIDGE DECK HYDRO-SCARIFICATION ½" " and "BRIDGE DECK MICROSILICA CONCRETE OVERLAY 2½" "

Deck Slab Repair (Full Depth, Type I) - 1.8 SQ. YD.
Deck Slab Repair (Full Depth, Type II) - 52.0 SQ. YD.

DESIGNED	KTH
CHECKED	ADL
DRAWN	KTH
CHECKED	ADL

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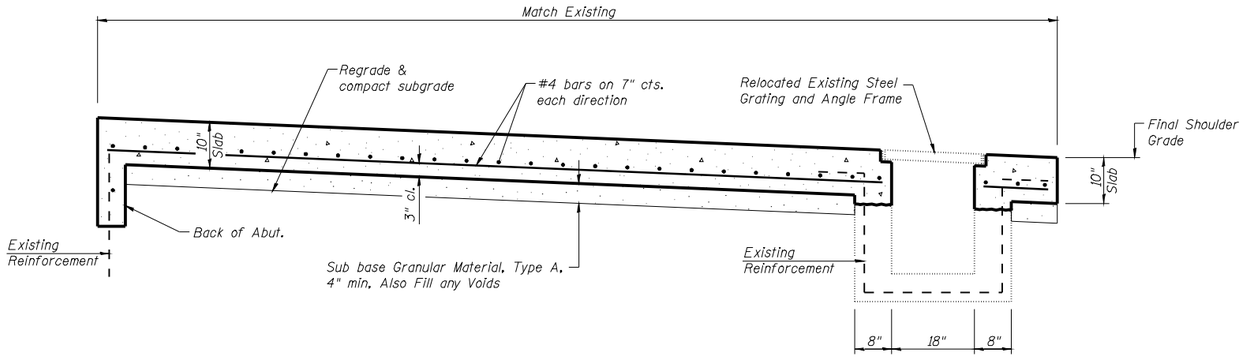
STATE OF ILLINOIS DESIGN FIRM # 1842738

DECK PATCHING & CONCRETE BRIDGE APPROACH SHOULDER PAVEMENT FAI 172 OVER MILL CREEK SN 001-0062 & 0063

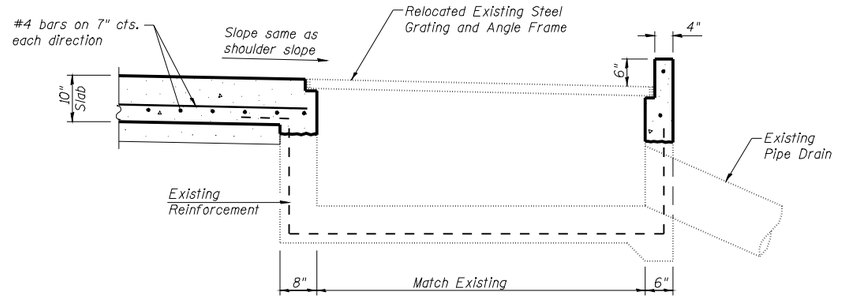
SHEET NO. 16	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
17 SHEETS	172	1-4B-1	ADAMS	165	150
			CONTRACT NO. 72A09		
	FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

Klingner & Associates P.C.

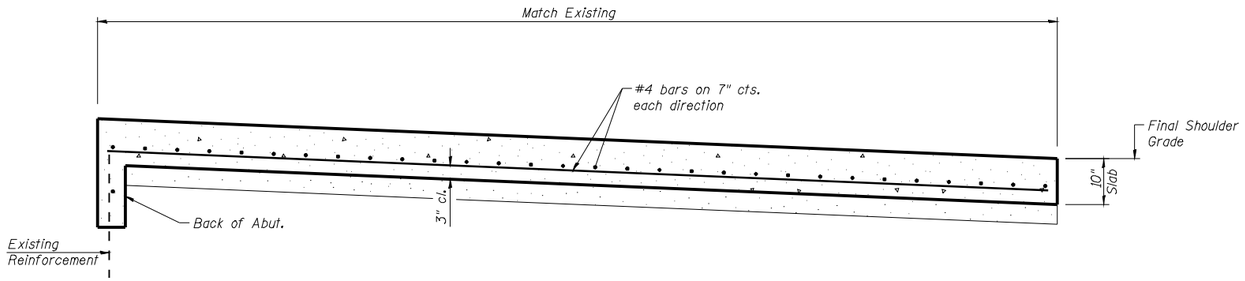
$FILE$



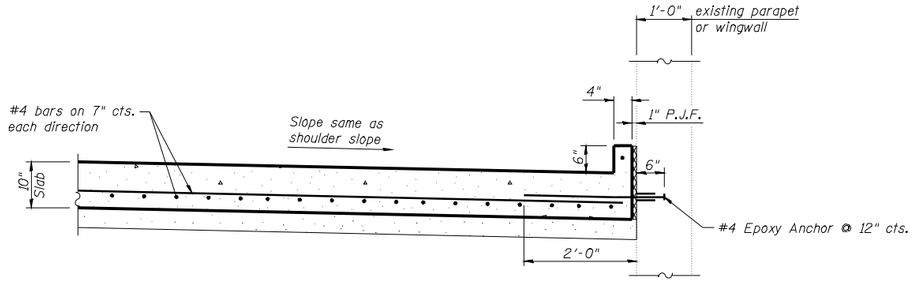
SECTION A-A



SECTION B-B



SECTION D-D



SECTION C-C

NOTES

See plans for location of bridge approach shoulder pavement.

The lengths of #4 bars used in the approach shoulder pavement shall be as required to accommodate the length, width and skew of the slab.

Bridge approach shoulder pavement will be measured in place and paid for in square yards as P.C. CONCRETE BRIDGE APPROACH SHOULDER PAVEMENT which shall include the cost of subgrade preparation, Sub base Granular Material, Type A, reinforcement and P.J.F. In computing the area for payment, a deduction will be made for the area displaced by the inside of inlet.

Existing reinforcement bars shown are to be cleaned and incorporated into the new construction.

DESIGNED	KTH
CHECKED	ADL
DRAWN	KTH
CHECKED	ADL

KLINGNER & ASSOCIATES, P.C.
Engineers • Architects • Surveyors
616 North 24th Street, Quincy, IL — Ph. (217) 223-5670 - Fax (217) 223-5683
4308 Paris Gravel Road, Hannibal, MO — Ph. (573) 221-0808 - Fax (573) 221-0812
608 N. 4th Street, Suite 100, Burlington, IA — Ph. (319) 753-1836 - Fax (319) 752-3685
49 North Prairie Street, Galesburg, IL — Ph. (309) 342-4042 - Fax (309) 341-3781
Internet Address: www.klingner.com
STATE OF ILLINOIS DESIGN FIRM • 1842738

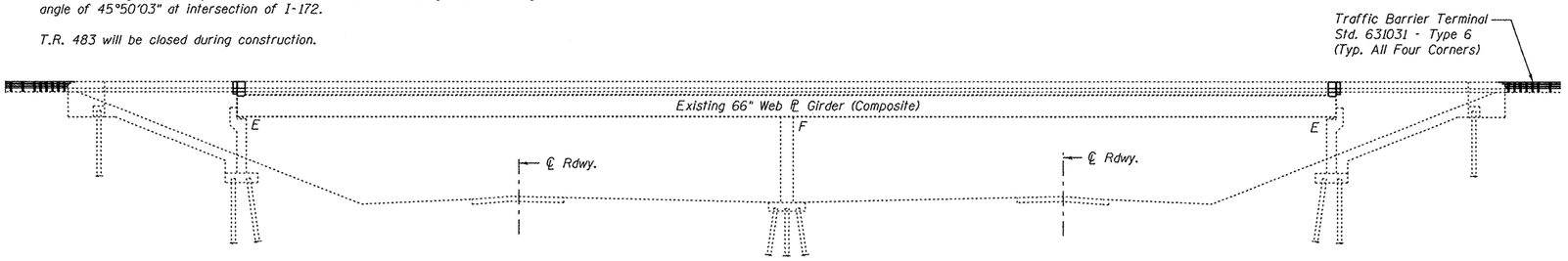
BRIDGE APPROACH SHOULDER PAVEMENT
FAI 172 OVER MILL CREEK
SN 001-0062 & 0063

SHEET NO. 17	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
17 SHEETS	172	1-4B	ADAMS	165	151
			CONTRACT NO. 72A09		
	FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

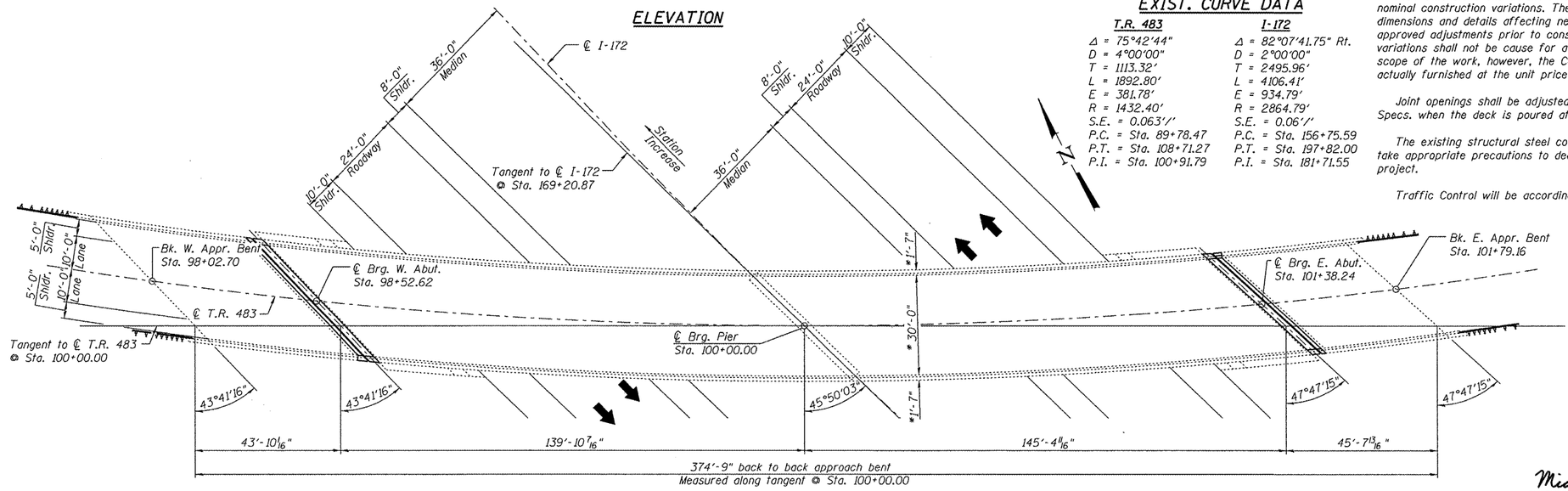
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

Existing Structure:
Structure No. 001-0061, constructed in 1981 as FAP 408, Section 1-4HB-1, is a two span continuous composite 66" plate girder superstructure with a 7½" reinforced concrete deck. The approach spans consist of three 36" PPC I-Beams and two outside supporting curtain walls constructed over a vaulted abutment. The structure is 376.5' bk. to bk. approach bents measured along ℄ Roadway. 33'-2" out to out measured radially and has a right ahead skew angle of 45°50'03" at intersection of I-172.

T.R. 483 will be closed during construction.



ELEVATION



PLAN

*Measured radially

EXIST. CURVE DATA

T.R. 483	I-172
Δ = 75°42'44"	Δ = 82°07'41.75" Rt.
D = 4°00'00"	D = 2°00'00"
T = 1113.32'	T = 2495.96'
L = 1892.80'	L = 4106.41'
E = 381.78'	E = 934.79'
R = 1432.40'	R = 2864.79'
S.E. = 0.063'/'	S.E. = 0.06'/'
P.C. = Sta. 89+78.47	P.C. = Sta. 156+75.59
P.T. = Sta. 108+71.27	P.T. = Sta. 197+82.00
P.I. = Sta. 100+91.79	P.I. = Sta. 181+71.55

GENERAL NOTES

Reinforcement bars shall conform to the requirements of ASTM A 706 Gr 60. See Special Provisions.

Reinforcement bars designated (E) shall be epoxy coated.

Prior to pouring the new concrete deck, all heavy or loose rust, loose mill scale, and other loose or potentially detrimental foreign material shall be removed from the surfaces in contact with 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.

As directed by the Engineer, existing construction accessories welded to the top flange of beams and girders shall be removed. The weld areas shall be ground flush and inspected for cracks using magnetic particle testing (MT) or dye penetrant testing (PT) by qualified personnel approved by the Engineer. Any cracks that can not be removed by grinding ¼ in. deep shall be identified and reported to the Bureau of Bridges and Structures for futher disposition. The cost of removing welded accessories, grinding and inspecting weld areas and grinding cracks will be paid for according to Article 109.04 of the Standard Specifications.

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

Joint openings shall be adjusted according to Article 520.04 of the Std. Specs. when the deck is poured at an ambient temperature other than 50° F.

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

Traffic Control will be according to Bureau of Local Roads Standard 21.

INDEX OF SHEETS

LICENSED STRUCTURAL ENGINEER
MICHAEL T. HALEY
81-5991
CHATHAM
STATE OF ILLINOIS

Michael T. Haley 2/11/10

Michael T. Haley — *Date*
Licensed Structural Engineer
State of Illinois No. 81-5991
Expires 11/30/2010

DESIGN STRESSES

FIELD UNITS

New Construction
f'c = 3,500 psi
fy = 60,000 psi (Reinforcement)
36,000 psi (Structural Steel)

Existing Construction
f'c = 3,500 psi
fy = 60,000 psi (Reinforcement)
fs = 20,000 psi (M183) (Structural Steel)
27,000 psi (M222 & M223 Grade 50) (Structural Steel)

PRECAST PRESTRESSED UNITS

Existing Construction
f'c = 5,000 psi
f'ci = 4,000 psi
f's = 270,000 psi
fsi = 189,000 psi

DESIGN SPECIFICATIONS

(New Construction)
2002 AASHTO "Standard Specifications for Highway Bridges"

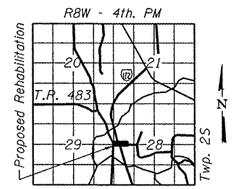
LOADING HS20-44

SCOPE OF WORK

1. *Remove and replace concrete deck and parapet adjacent to expansion joints.*
2. *Provide preformed joint strip seal expansion joints at abutments.*
3. *Apply Concrete Sealer to top of deck surface and top and inside face of parapets.*
4. *Provide Side Retainers for Bearings at Abutments.*

TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Concrete Removal	Cu. Yd.	13.1	-	13.1
Concrete Superstructure	Cu. Yd.	13.1	-	13.1
Concrete Sealer	Sq. Ft.	14134	-	14134
Furnishing and Erecting Structural Steel	Pound	-	200	200
Reinforcement Bars, Epoxy coated	Pound	2120	-	2120
Preformed Joint Strip Seal	Foot	91	-	91
Anchor Bolts, 1"	Each	-	12	12



LOCATION SKETCH

GENERAL PLAN AND ELEVATION
T.R. 483 OVER I-172
FAI RTE 172 - SECTION 1-5HB
ADAMS COUNTY
STATION 169+20.87
STRUCTURE NO. 001-0061

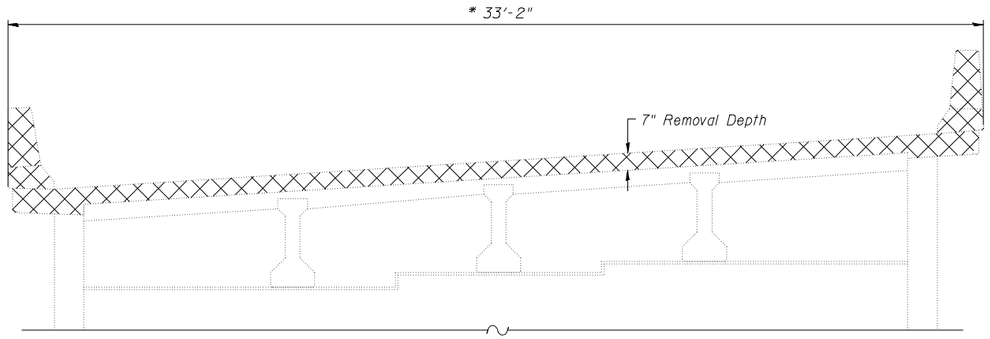
LIN ENGINEERING, LTD.
Consulting Engineers
Chatham, Illinois

Designed By: ESH | Checked By: MTH | Drawn By: ESH
Date: 11/2009 | File: 001-0061.dgn

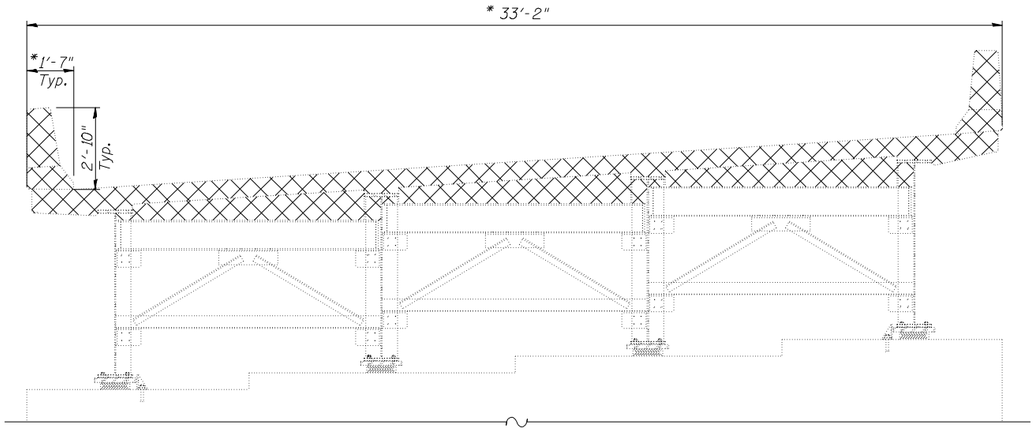
SHEET NO. 1
6 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
172	1-5HB	ADAMS	165	152
		CONTRACT NO. 72A09		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

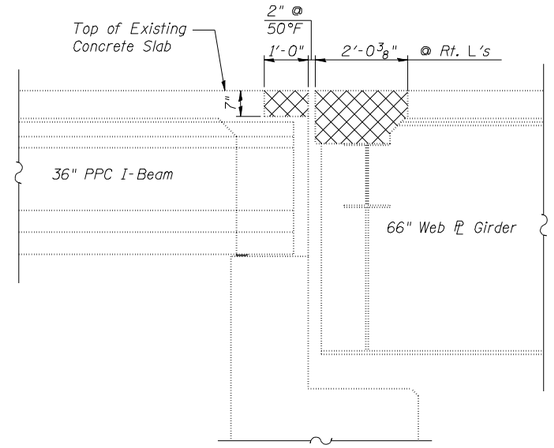


SECTION B-B

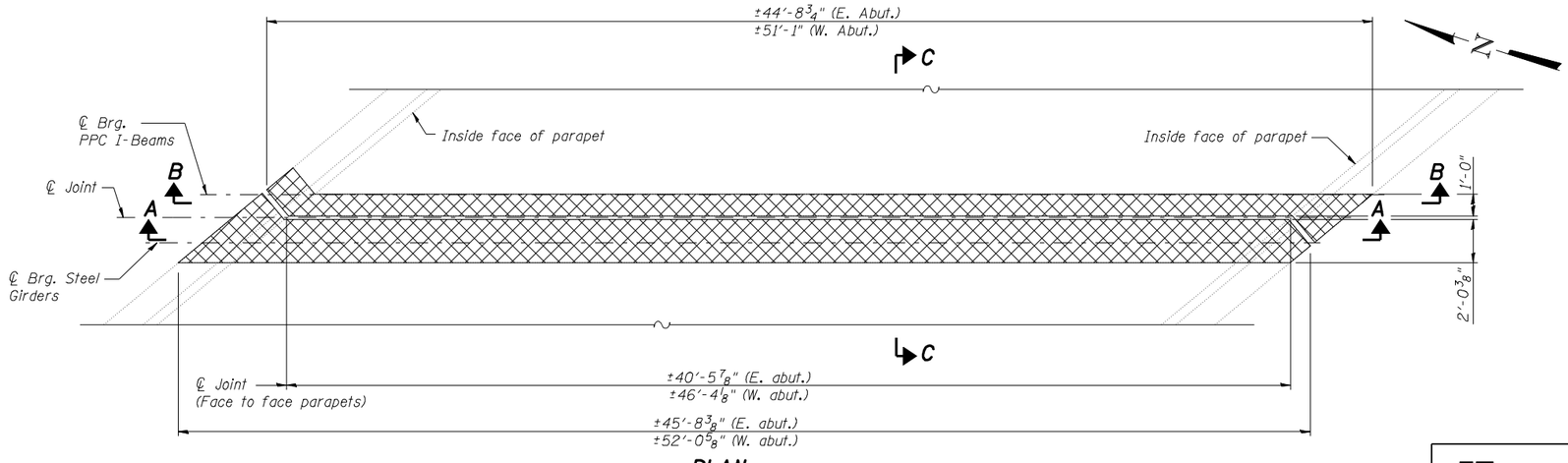


SECTION A-A

* Measured Radially



SECTION C-C



PLAN

(East abut. shown, west abut. similar)

Notes:
1. Cross hatched area indicates concrete removal.
2. Existing reinforcement bars in the concrete removal area extending in new construction shall be cleaned and incorporated into the new construction. Cost included with Concrete Removal.
3. Any reinforcement bars that are damaged during concrete removal operations shall be repaired or replaced using an approved bar splicer or anchorage system, in accordance with IDOT Standard Specifications Article 501.03. Cost included in "Concrete Removal"

CONCRETE REMOVAL
STRUCTURE NO. 001-0061

LIN ENGINEERING,LTD.
Consulting Engineers
Chatham, Illinois

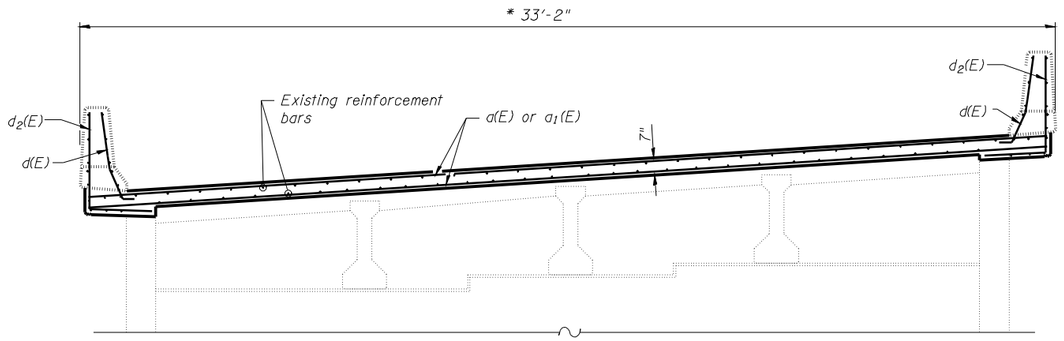
Designed By: ESH	Checked By: MTH	Drawn By: ESH
Date: 11/2009	Files: 001-0061.dgn	

SHEET NO. 2
6 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
172	1-5HB	ADAMS	165	153
		CONTRACT NO. 72A09		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

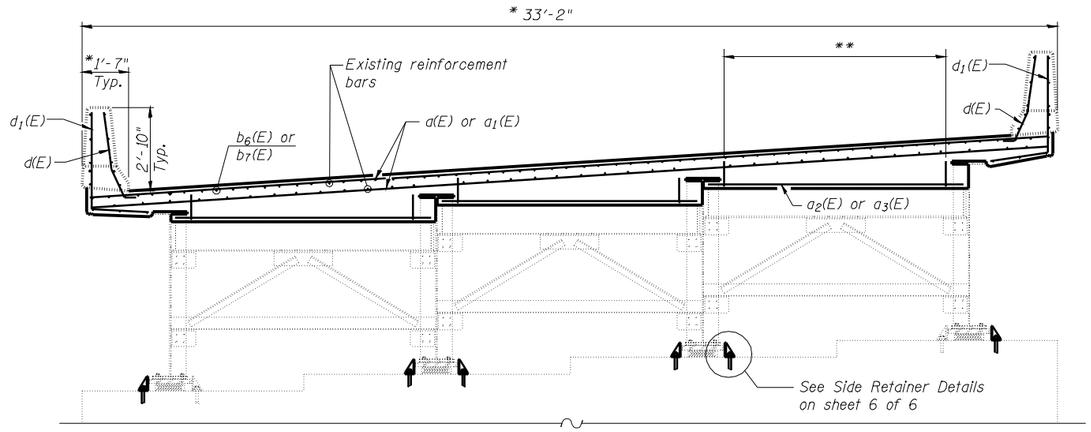
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

** 8-#4 u(E) bars @ 12" cts. (E. Abut.)
8-#4 u_1(E) bars @ 12"cts. (W. Abut.)
Typ. between girders.
Bar Spacings are perpendicular to ℄ Girder

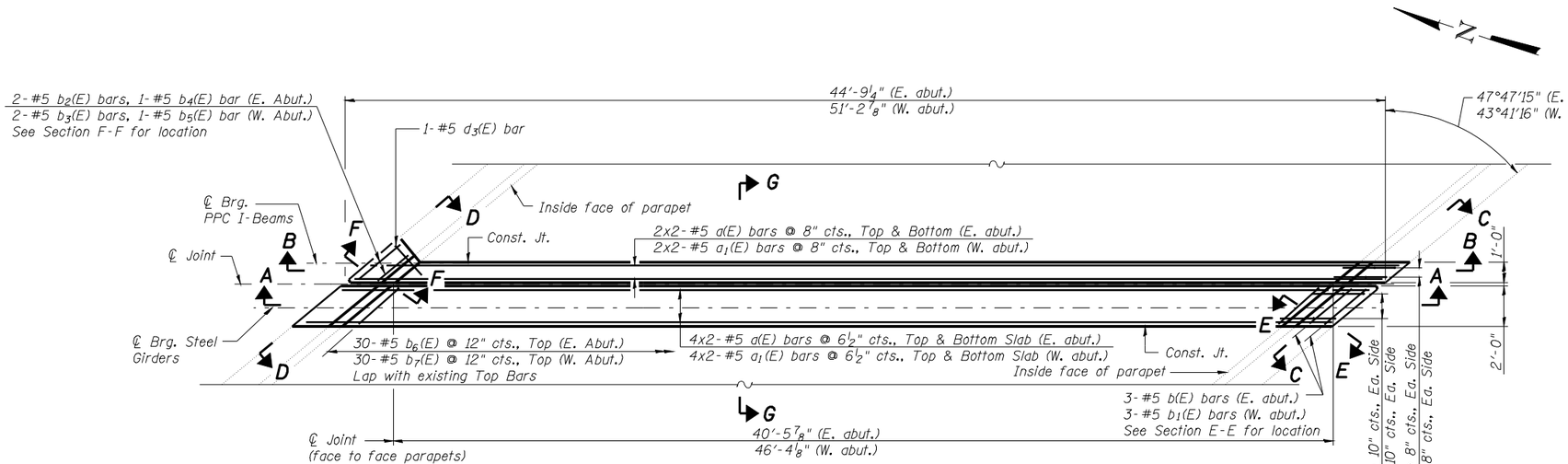


SECTION B-B

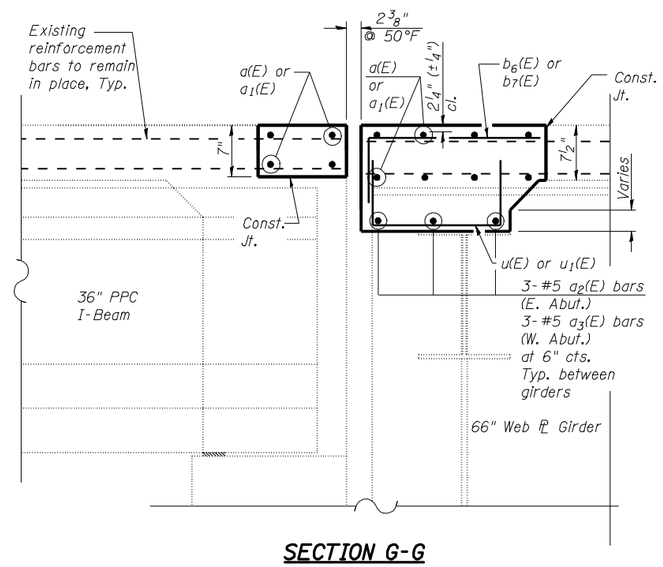
* Measured Radially



SECTION A-A



PLAN
(East abut. shown, west abut. similar)



SECTION G-G

MINIMUM LAP
#5 bar = 1'-8"

Notes:
See sheet 4 of 6 for Section C-C, D-D, E-E, F-F and Bill of material.

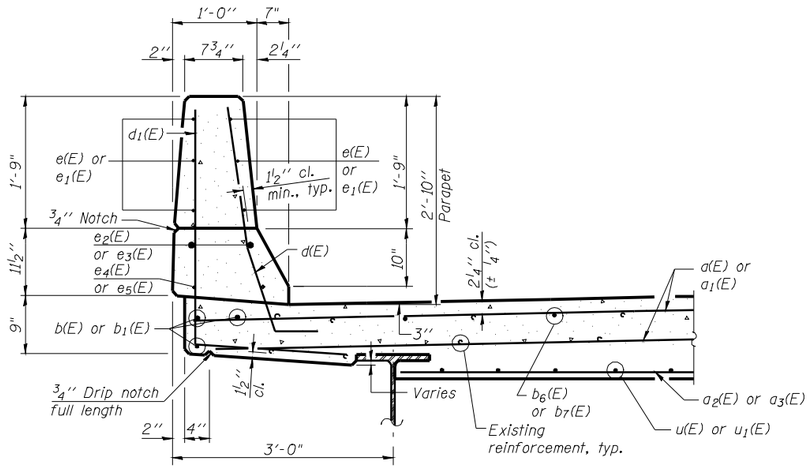
CONCRETE DETAILS-1
STRUCTURE NO. 001-0061

LIN ENGINEERING, LTD.
Consulting Engineers
Chatham, Illinois
Designed By: ESH | Checked By: MTH | Drawn By: ESH
Date: 11/2009 | File: 001-0061.dgn

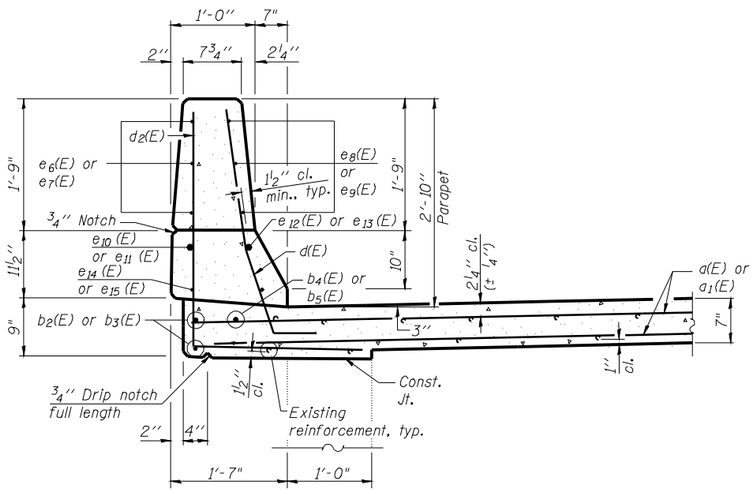
SHEET NO. 3
6 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
172	1-5HB	ADAMS	165	154
		CONTRACT NO. 72A09		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

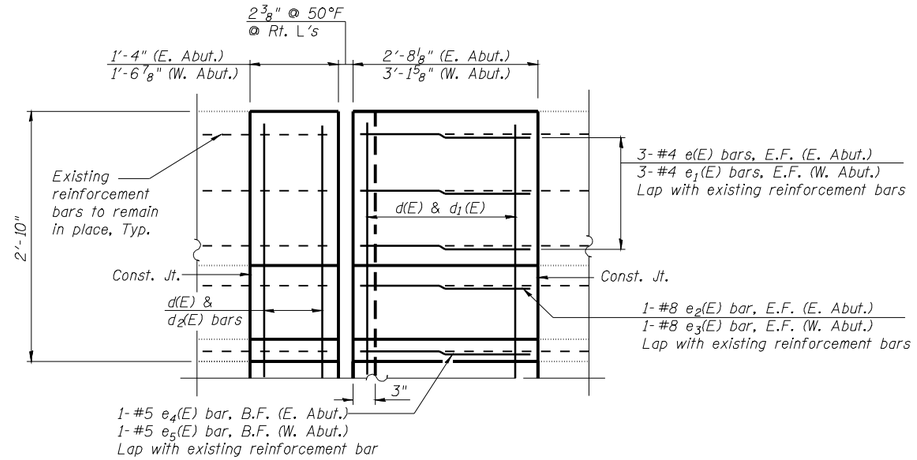
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



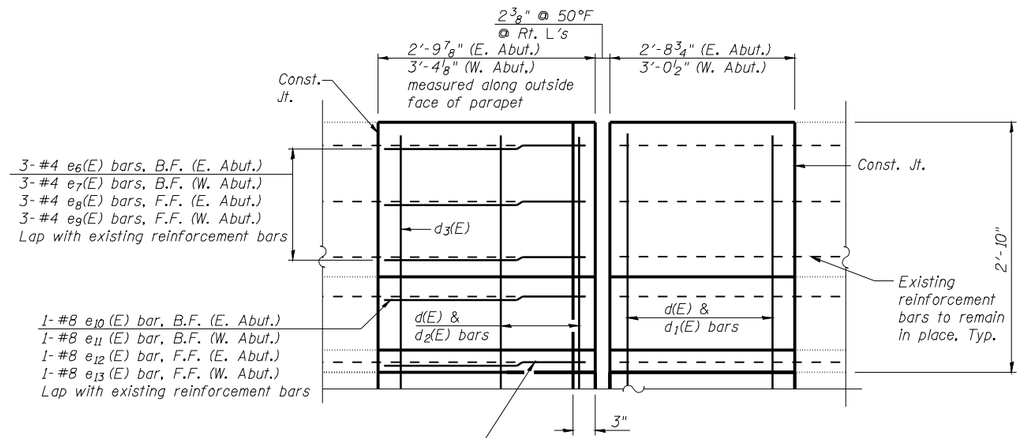
SECTION E-E



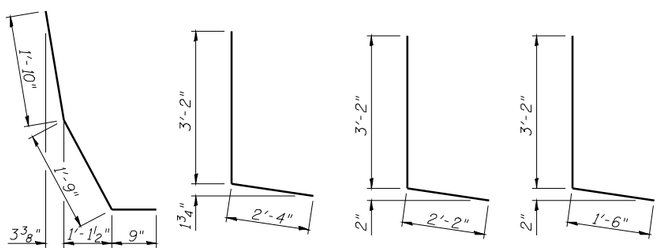
SECTION F-F



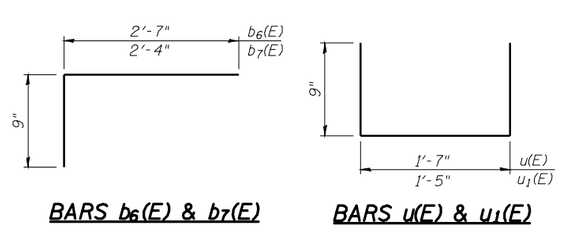
SECTION C-C



SECTION D-D



BAR d(E) | BAR d1(E) | BAR d2(E) | BAR d3(E)



BARS b6(E) & b7(E) | BARS u(E) & u1(E)

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
d(E)	24	#5	22'-10"	
d1(E)	24	#5	26'-1"	
d2(E)	9	#5	11'-10"	
d3(E)	9	#5	13'-6"	
b(E)	3	#5	2'-4"	
b1(E)	3	#5	2'-9"	
b2(E)	2	#5	2'-6"	
b3(E)	2	#5	3'-0"	
b4(E)	1	#5	1'-9"	
b5(E)	1	#5	2'-2"	
b6(E)	30	#5	3'-4"	
b7(E)	30	#5	3'-1"	
d(E)	20	#5	4'-4"	
d1(E)	12	#5	5'-6"	
d2(E)	8	#5	5'-4"	
d3(E)	2	#5	4'-8"	
e(E)	6	#4	2'-4"	
e1(E)	6	#4	2'-9"	
e2(E)	2	#8	2'-4"	
e3(E)	2	#8	2'-9"	
e4(E)	1	#5	2'-4"	
e5(E)	1	#5	2'-9"	
e6(E)	3	#4	2'-6"	
e7(E)	3	#4	3'-0"	
e8(E)	3	#4	1'-9"	
e9(E)	3	#4	2'-2"	
e10(E)	1	#8	2'-6"	
e11 (E)	1	#8	3'-0"	
e12(E)	1	#8	1'-9"	
e13(E)	1	#8	2'-2"	
e14(E)	1	#5	2'-6"	
e15(E)	1	#5	3'-0"	
u(E)	24	#4	3'-1"	⌴
u1(E)	24	#4	2'-11"	⌴
Reinforcement Bars, Epoxy Coated			Pound	2110
Concrete Superstructure			Cu. Yds.	13.1

Bars indicated thus 4x2-#5 etc. indicates 4 lines of bars with 2 lengths per line.

CONCRETE DETAILS-2
STRUCTURE NO. 001-0061

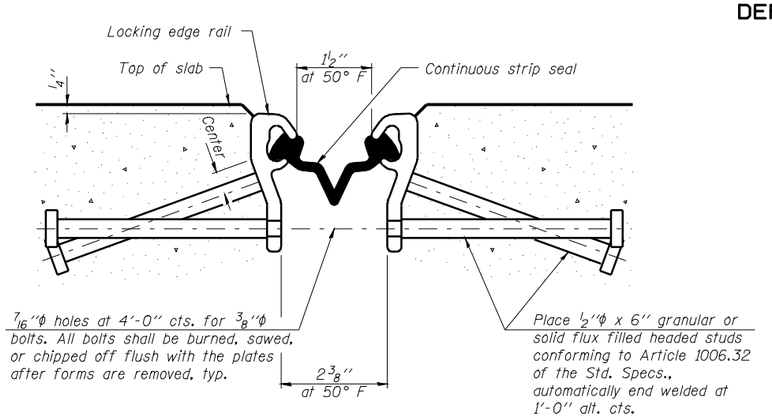
LIN ENGINEERING,LTD.
Consulting Engineers
Chatham, Illinois

Designed By: ESH | Checked By: MTH | Drawn By: ESH
Date: 11/2009 | File: 001-0061.dgn

SHEET NO. 4
6 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
172	1-5HB	ADAMS	165	155
		CONTRACT NO. 72A09		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



SECTION THRU STRIP SEAL JOINT

Notes:

The strip seal shall be made continuous and shall have a minimum thickness of 1/4". The configuration of the strip seal shall match the configuration of the Locking Edge Rails.

The height and thickness of the Locking Edge Rails shown are minimum dimensions. The actual configuration of the Locking Edge Rails and matching strip seal may vary from manufacturer to manufacturer. Flanged edge rails will not be allowed.

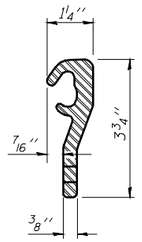
The inside of the Locking Edge Rail groove shall be free of weld residue.

Locking Edge Rails may be spliced at slope discontinuities and stage construction joints.

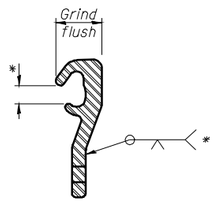
The manufacturer's recommended installation methods shall be followed.

All steel components shall be galvanized after fabrication according to Article 520.03 of the Standard Specifications.

Maximum space between rail segments at stage lines shall be 3/16", sealed with a suitable sealant.

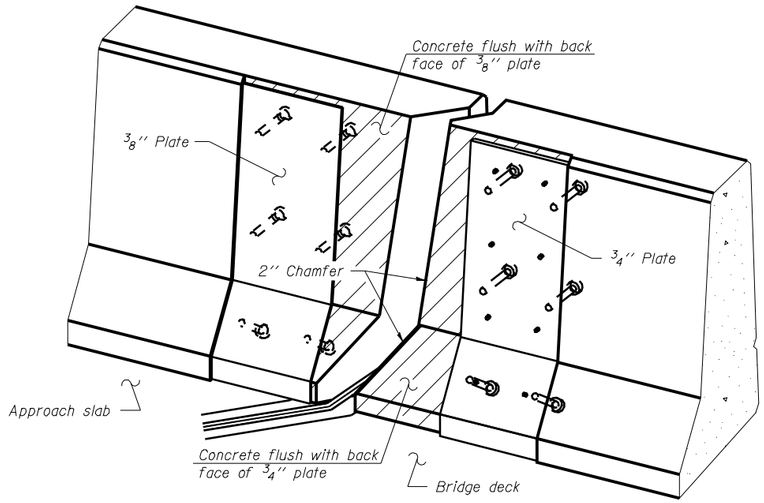


LOCKING EDGE RAIL



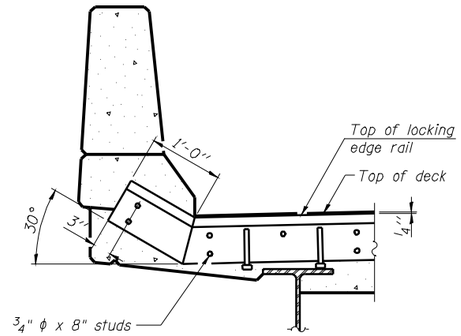
LOCKING EDGE RAIL SPLICE

* Omit weld at seal opening.



TRIMETRIC VIEW

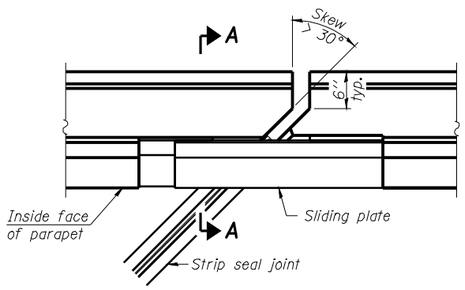
(Showing back plates only)



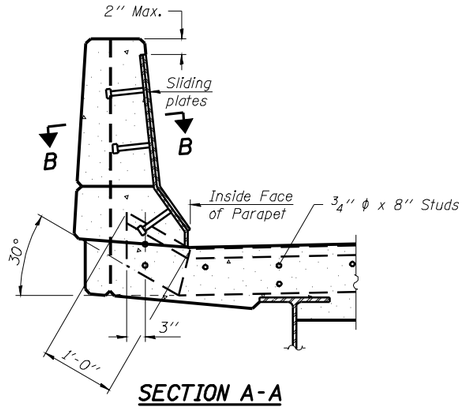
AT PARAPET

See Section A-A for end treatment of skews > 30°.

TYPICAL END TREATMENTS



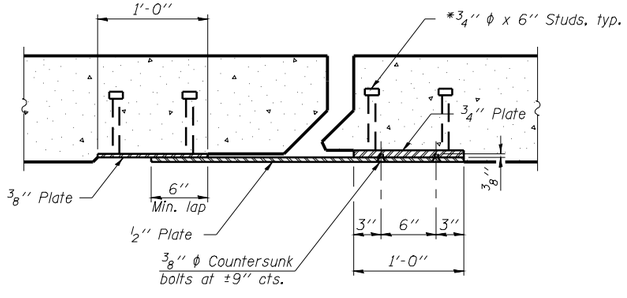
PLAN



SECTION A-A

POINT BLOCK DETAILS

(for skews > 30°)



SECTION B-B

BILL OF MATERIAL

Item	Unit	Total
Preformed Joint Strip Seal	Foot	91

PREFORMED JOINT STRIP SEAL
STRUCTURE NO. 001-0061

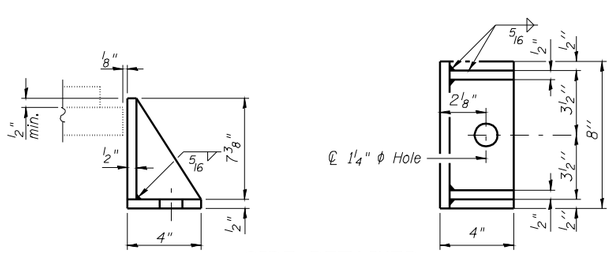
LIN ENGINEERING, LTD.
Consulting Engineers
Chatham, Illinois

Designed By: ESH | Checked By: MTH | Drawn By: ESH
Date: 11/2009 | Files: 001-0061.dgn

SHEET NO. 5
6 SHEETS

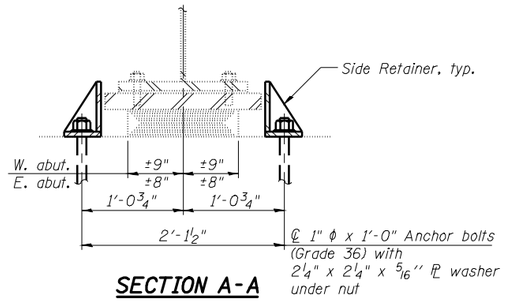
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
172	1-5HB	ADAMS	165	156
		CONTRACT NO. 72A09		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



SIDE RETAINER

(No. Req'd = 12)
Equivalent rolled angle with stiffeners will be allowed in lieu of welded plates.



SECTION A-A

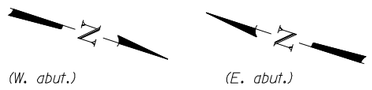
Notes:

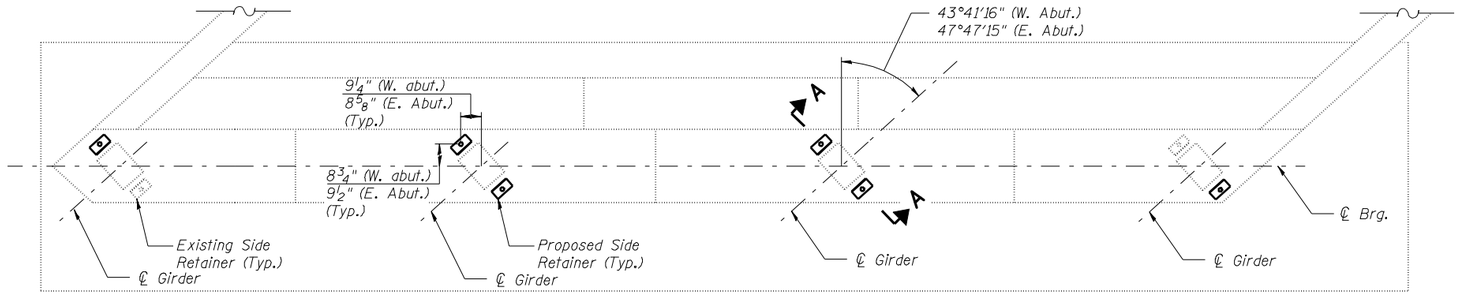
Anchor bolts shall be ASTM F1554 all-thread (or an Engineer-approved alternate material) of the grade(s) and diameter(s) specified. ASTM A307 Grade C anchor bolts may be used in lieu of ASTM F1554 Grade 36 (Fy=36ksi). The corresponding specified grade of AASHTO M314 anchor bolts may be used in lieu of ASTM F1554.

Drilled and set anchor bolts shall be installed according to Article 521.06 of the Standard Specifications.

Side retainers shall be galvanized in accordance with AASHTO M111 or M232 as applicable.

Side retainers shall be included in the cost of Furnishing and Erecting Structural Steel.





PLAN

BILL OF MATERIAL

Item	Unit	Total
Furnishing and Erecting Structural Steel	Pound	200
Anchor Bolts, 1"	Each	12

SIDE RETAINER DETAILS
STRUCTURE NO. 001-0061

LIN ENGINEERING, LTD.
Consulting Engineers
Chatham, Illinois

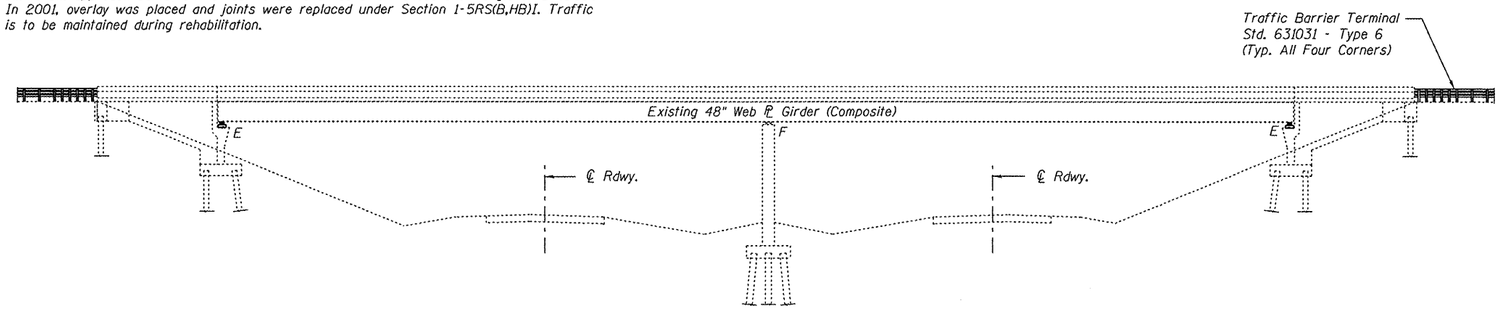
Designed By: ESH | Checked By: MTH | Drawn By: ESH
Date: 11/2009 | Files: 001-0061.dgn

SHEET NO. 6
6 SHEETS

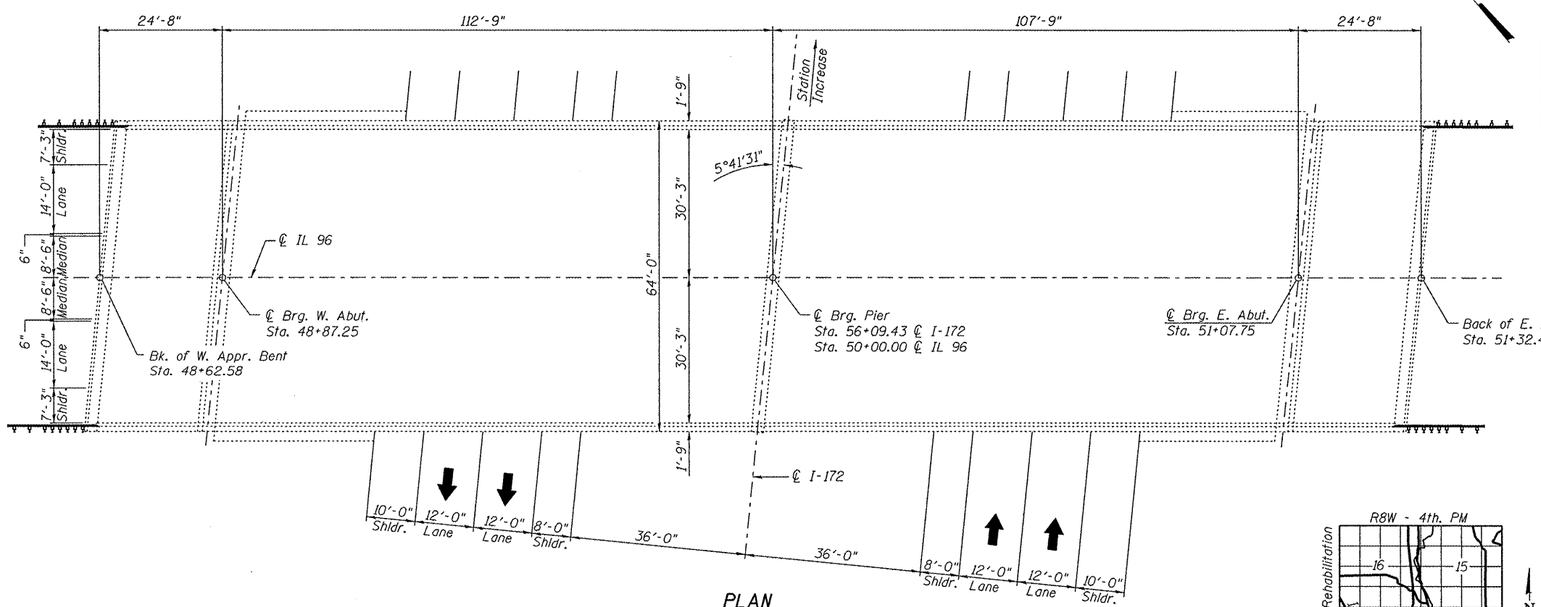
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
172	1-5HB	ADAMS	165	157
		CONTRACT NO. 72A09		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

Existing Structure:
Structure No. 001-0044, constructed in 1976 as FAP 407, Section 1-5HB, is a two span continuous composite 48" plate girder superstructure with a 7½" reinforced concrete deck. The approach spans set on sand filled vaulted abutments. The structure is 269'-10" of bk. to bk. approach bents, 64'-0" out to out and has a left ahead skew angle of 5°41'31". In 2001, overlay was placed and joints were replaced under Section 1-5RS(B,HB)I. Traffic is to be maintained during rehabilitation.

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



ELEVATION



PLAN

GENERAL NOTES

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

All structural steel shall conform to AASHTO Classification M-270 Gr. 36, unless otherwise noted.

Fasteners shall be high strength bolts. Bolts ¾" ϕ, open holes 13/16" ϕ, unless otherwise noted.

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

Existing structural steel that will be in contact with new structural steel shall be cleaned and painted prior to erection as required by Special Provision "Cleaning and Painting Contact Surface Areas of Existing Steel Structures".

All structural steel shall be shop painted with the inorganic zinc rich primer per AASHTO M300, Type I. Cost included with Furnishing and Erecting Structural Steel.

If the analysis submitted to the Contractor for the jacking/temporary support system to be used shows temporary stiffeners are required to prevent web crippling or buckling, the stiffeners shall be steel and bolted to the web. If stiffeners are not required, hardwood timbers shall be installed tightly between the top and bottom flange to prevent flange rotation.

TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Furnishing and Erecting Structural Steel	Pound	-	3610	3610
Jack and Remove Existing Bearings	Each	-	18	18
Elastomeric Bearing Assembly, Type I	Each	-	18	18
Anchor Bolts, 1"	Each	-	72	72
Structural Repair of Concrete (Depth Equal To or Less Than 5 in)	Sq. Ft.	-	215	215
Concrete Sealer	Sq. Ft.	13771	-	13771

INDEX OF SHEETS

LICENSED STRUCTURAL ENGINEER
MICHAEL T. HALEY
81-5991
CHATHAM
STATE OF ILLINOIS

Michael J. Haley 2/11/10

Michael T. Haley — Date
Licensed Structural Engineer
State of Illinois No. 81-5991
Expires 11/30/2010

DESIGN STRESSES

FIELD UNITS

Existing Construction
fc = 1,200 psi (Deck Slab)
fc = 1,400 psi (Curb, Parapet, Approach Slab & Substructure)
fs = 20,000 psi (Reinforcement)
fs = 20,000 psi (M183) (Structural Steel)
= 27,000 psi (M222) (Structural Steel)

New Construction
f'c = 3,500 psi
fy = 60,000 psi (Reinforcement)
fy = 36,000 psi (Structural Steel) (M270 Gr. 36)

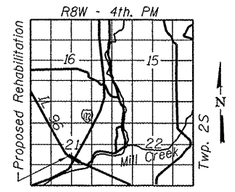
DESIGN SPECIFICATIONS

(New Construction)
2002 AASHTO "Standard Specifications for Highway Bridges"

LOADING HS 20-44

SCOPE OF WORK

1. Remove steel rocker bearings at abutments and replace with elastomeric bearings.
2. Repair deteriorated concrete on abutments.
3. Apply Concrete Sealer to top of deck surface and top and inside face of parapets.



LOCATION SKETCH

GENERAL PLAN AND ELEVATION
IL RTE 96 OVER I-172
FAI RTE 172 - SECTION 1-4HB-1
ADAMS COUNTY
STATION 56+09.43
STRUCTURE NO. 001-0044

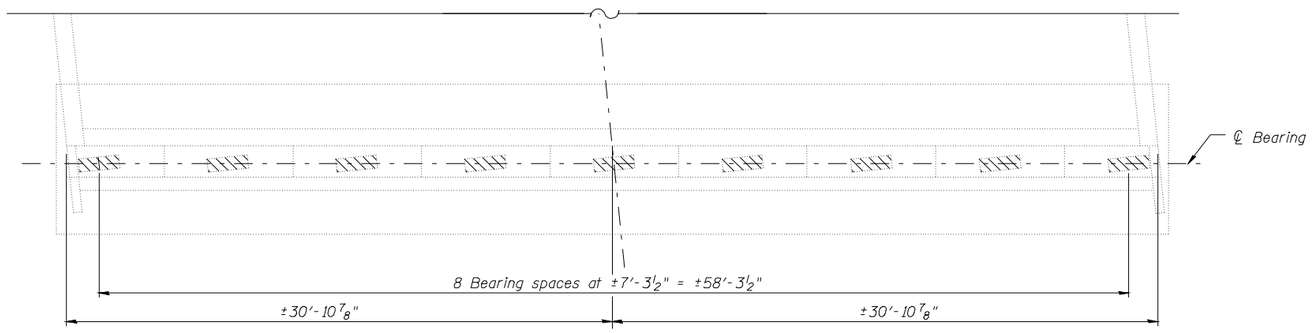
LIN ENGINEERING, LTD.
Consulting Engineers
Chatham, Illinois

Designed By: ESH | Checked By: MTH | Drawn By: ESH
Date: 11/2009 | File: 001-0044.dgn

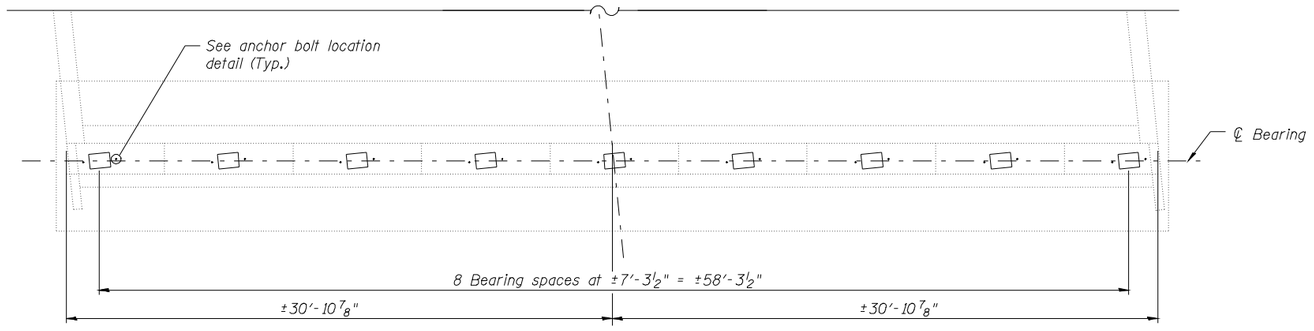
SHEET NO. 1
4 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
172	1-4HB-1	ADAMS	165	158
		CONTRACT NO. 72A09		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

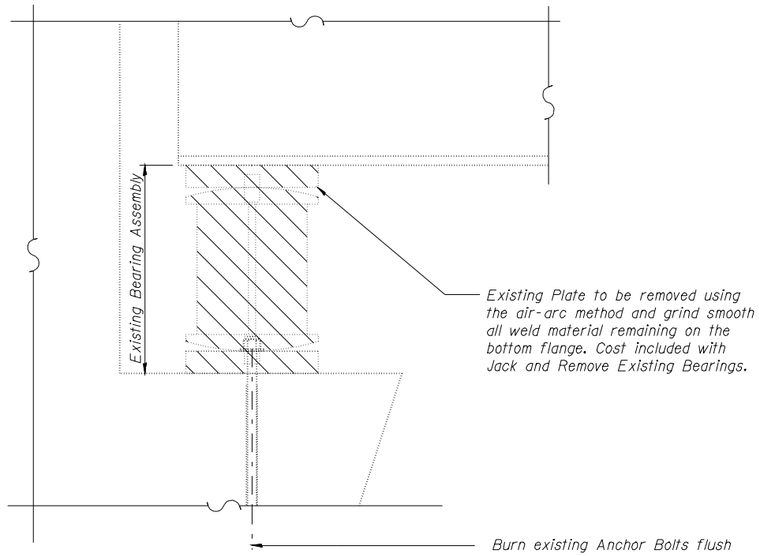


EXISTING ABUTMENT BEARING PLAN

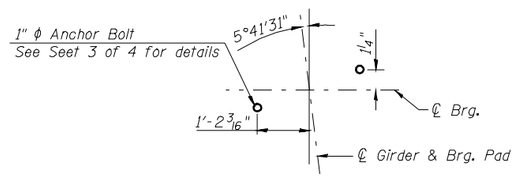


PROPOSED ABUTMENT BEARING PLAN

Notes:
Hatch area indicates Bearing removal. See Special Provision for Jack and Remove Existing Bearings. Cribbing shall be designed to resist horizontal and vertical loads at bearing locations.
Existing bearings shall be removed and replaced one at a time.
Estimated Max. Dead Load and Live Load plus Impact Beam Reaction:
Dead Load = 60.8 kips/beam (Steel & Concrete)
Live Load = 47.6 kips/beam
Impact = 10.1 kips/beam
Total = 118.5 kips/beam
Minimum Jack Capacity = 90 Tons.
See sheet 3 of 4 for Bearing details.



EXISTING BEARING REMOVAL DETAIL



PROPOSED ANCHOR BOLT LOCATION

BEARINGS AT ABUTMENTS
STRUCTURE NO. 001-0044

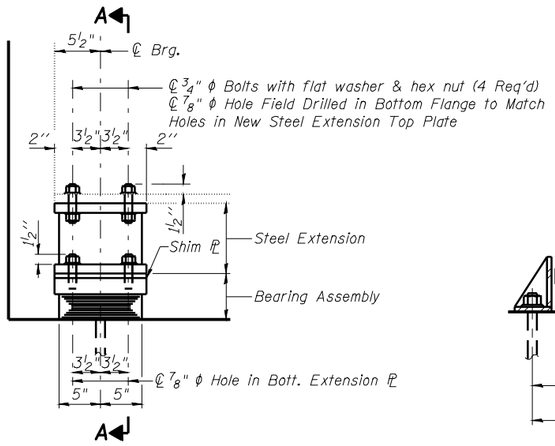
LIN ENGINEERING,LTD.
Consulting Engineers
Chatham, Illinois

Designed By: ESH	Checked By: MTH	Drawn By: ESH
Dates: 11/2009	Files: 001-0044.dgn	

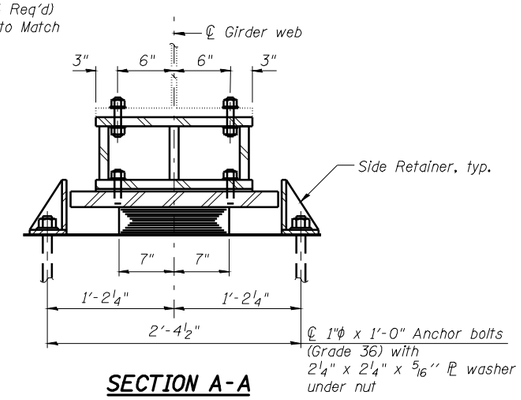
SHEET NO. 2
4 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
172	1-4HB-1	ADAMS	165	159
		CONTRACT NO. 72A09		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



ELEVATION AT ABUT.



SECTION A-A

TYPE I ELASTOMERIC EXP. BRG.

Notes:
Anchor bolts shall be ASTM F1554 all-thread (or an Engineer-approved alternate material) of the grade(s) and diameter(s) specified. ASTM A307 Grade C anchor bolts may be used in lieu of ASTM F1554 Grade 36 (Fy=36ksi). The corresponding specified grade of AASHTO M314 anchor bolts may be used in lieu of ASTM F1554.

Drilled and set anchor bolts shall be installed according to Article 521.06 of the Standard Specifications.

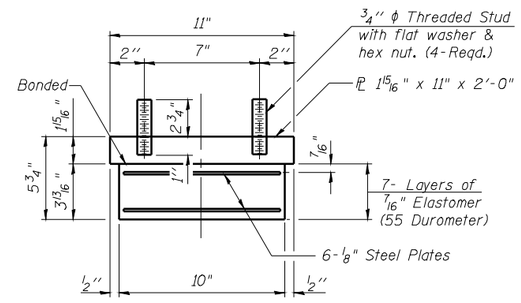
Two ⅛ in. adjusting shims shall be provided for each bearing in addition to all other plates or shims and placed as shown on bearing details.

The Contractor is to verify the existing dimensions prior to fabricating the steel extensions. It is intended to keep the existing beams at their current elevation.

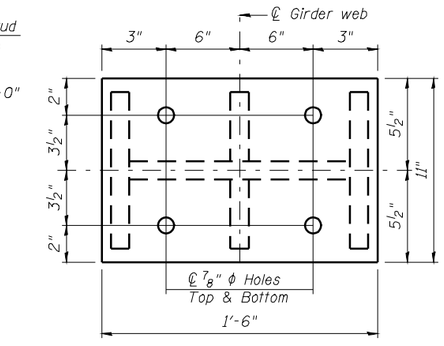
Steel Extensions and fasteners shall be included in the cost of Furnishing and Erecting Structural Steel.

Side retainers and other steel members required for the bearing assembly shall be included in the cost of Elastomeric Bearing Assembly, Type I.

Fasteners shall be AASHTO M164 Type 1, mechanically galvanized bolts.

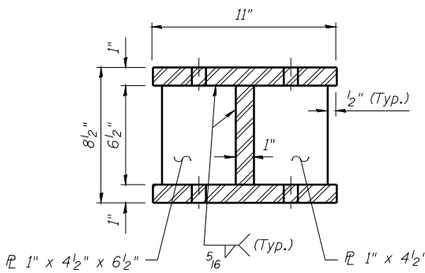


BEARING ASSEMBLY

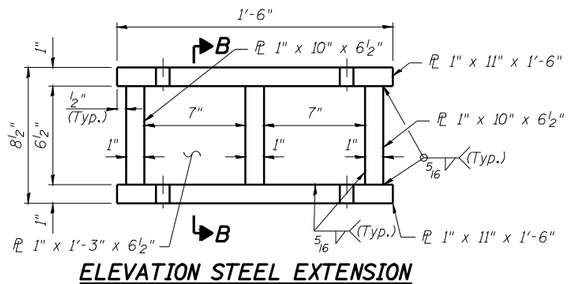


PLAN STEEL EXTENSION

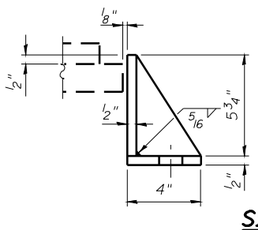
Note:
Shim plates shall not be placed under Bearing Assembly.

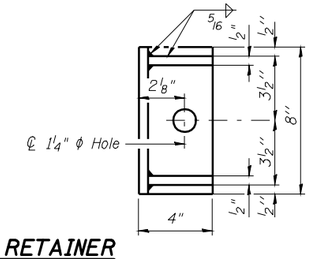


SECTION B-B



ELEVATION STEEL EXTENSION





SIDE RETAINER

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

BILL OF MATERIAL

Item	Unit	Total
Elastomeric Bearing Assembly Type I	Each	18
Anchor Bolts, 1"	Each	36
Jack and Remove Existing Bearings	Each	18

BEARING DETAILS
STRUCTURE NO. 001-0044

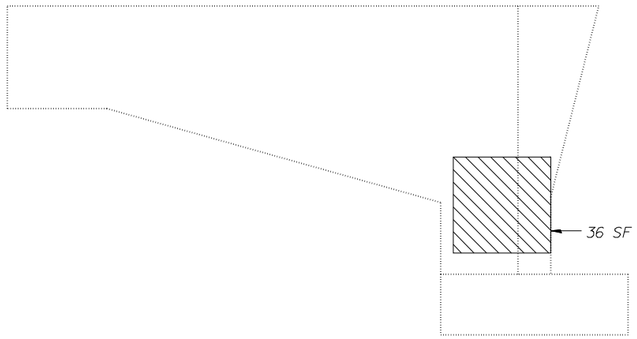
LIN ENGINEERING, LTD.
Consulting Engineers
Chatham, Illinois

Designed By: ESH | Checked By: MTH | Drawn By: ESH
Date: 11/2009 | Files: 001-0044.dgn

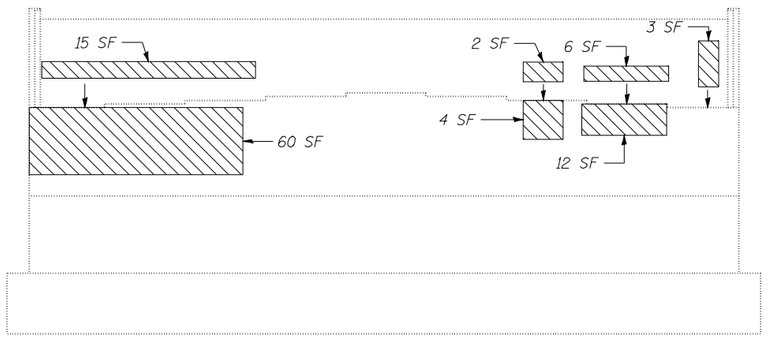
SHEET NO. 3
4 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
172	1-4HB-1	ADAMS	165	160
		CONTRACT NO. 72A09		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

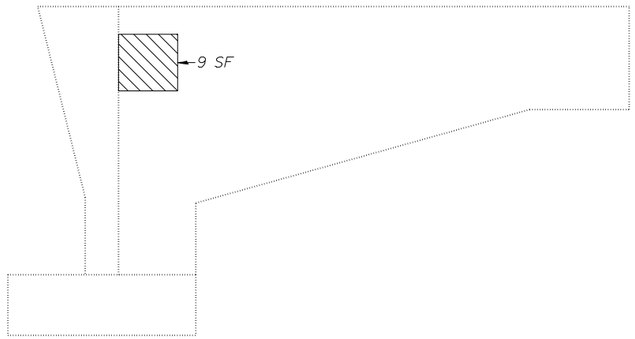
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



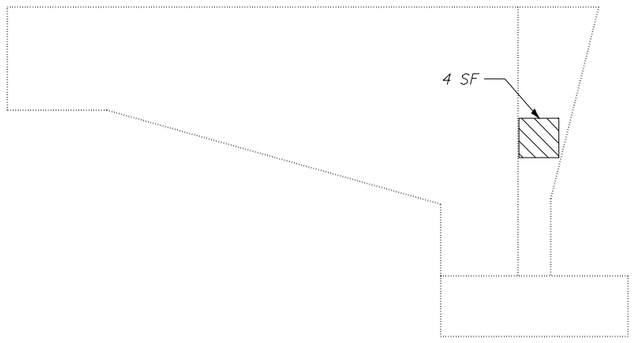
SW WINGWALL ELEVATION
(Looking North)



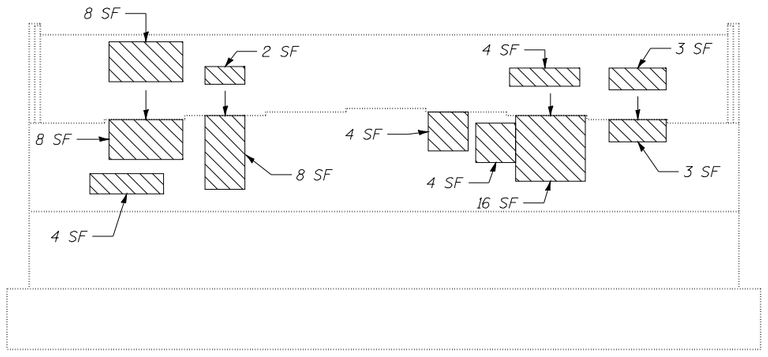
WEST ABUTMENT ELEVATION
(Looking West)



NW WINGWALL ELEVATION
(Looking South)



NE WINGWALL ELEVATION
(Looking South)



EAST ABUTMENT ELEVATION
(Looking East)

Notes:
The quantities shown are for estimating purposes only. The area to be repaired will be determined by the Engineer at the time of construction. Actual repair locations shall be shown on the as-built plans.

LEGEND

Indicates Structural Repair of Concrete (Depth Equal to or Less Than 5")

SF Square Feet

ABUTMENT REPAIR
STRUCTURE NO. 001-0044

LIN ENGINEERING,LTD.
Consulting Engineers
Chatham, Illinois

Designed By: ESH	Checked By: MTH	Drawn By: ESH
Date: 11/2009	File: 001-0044.dgn	

SHEET NO. 4
4 SHEETS

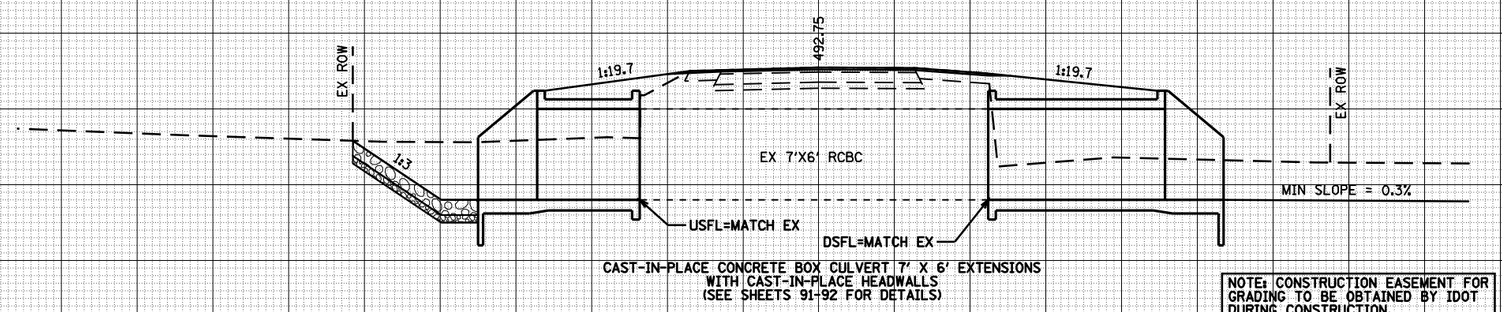
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
172	1-4HB-1	ADAMS	165	161
		CONTRACT NO. 72A09		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

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

BY	DATE

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

BY	DATE



CAST-IN-PLACE CONCRETE BOX CULVERT 7' X 6' EXTENSIONS
WITH CAST-IN-PLACE HEADWALLS
(SEE SHEETS 91-92 FOR DETAILS)

NOTE: CONSTRUCTION EASEMENT FOR GRADING TO BE OBTAINED BY IDOT DURING CONSTRUCTION.

31+17.00
SKEW=20° LT AH

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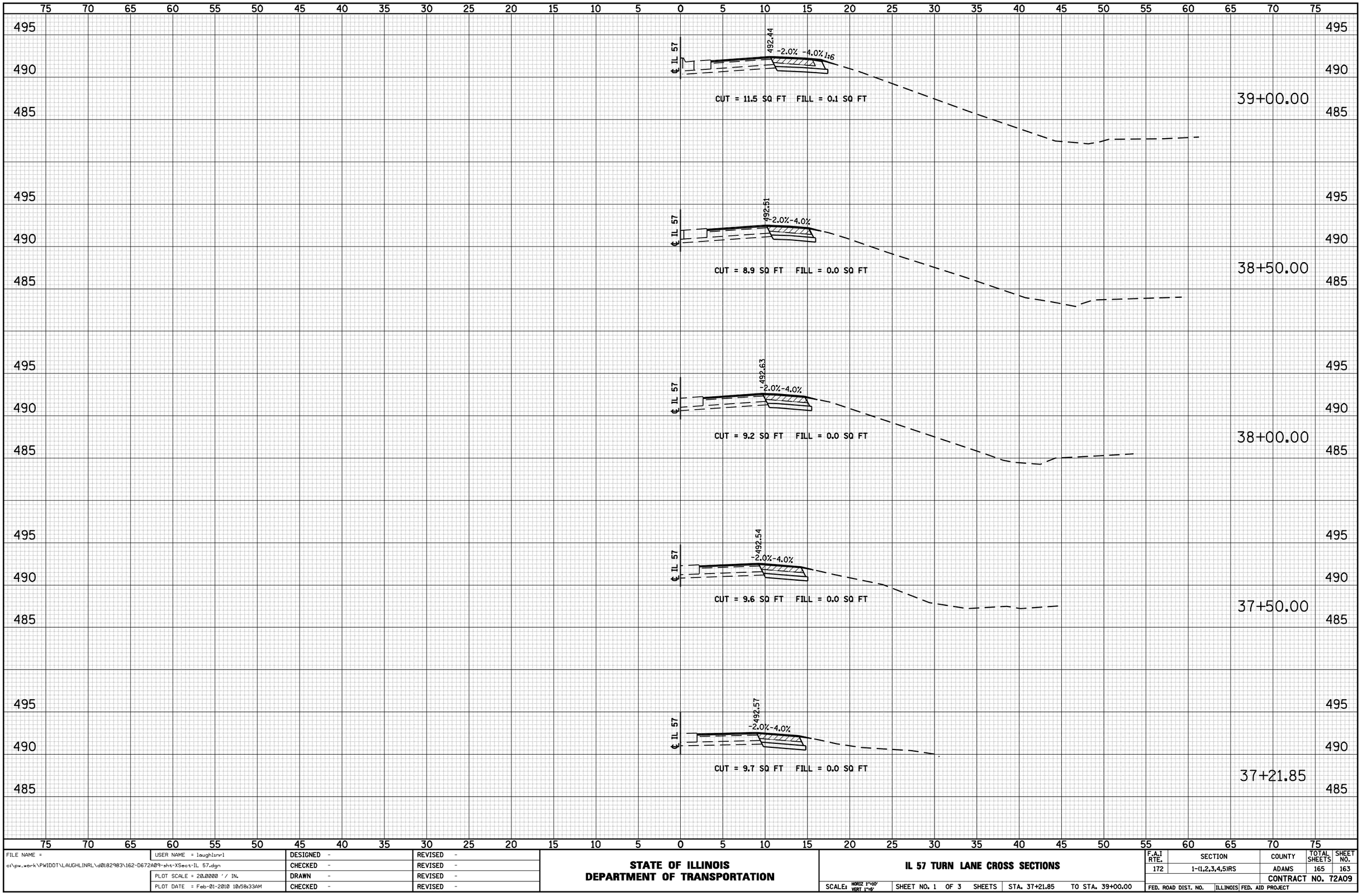
	PLOT DATE = Feb-01-2010 10:58:29AM	CHECKED -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 57 BOX CULVERT EXTENSION CROSS SECTION

SCALE: HORIZ 1"=10' VERT 1"=5' | SHEET NO. 1 OF 1 SHEETS | STA. 31+17.00 | TO STA. 31+17.00

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
172	1-(1,2,3,4,5)RS	ADAMS	165	162
		CONTRACT NO. 72A09		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



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

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

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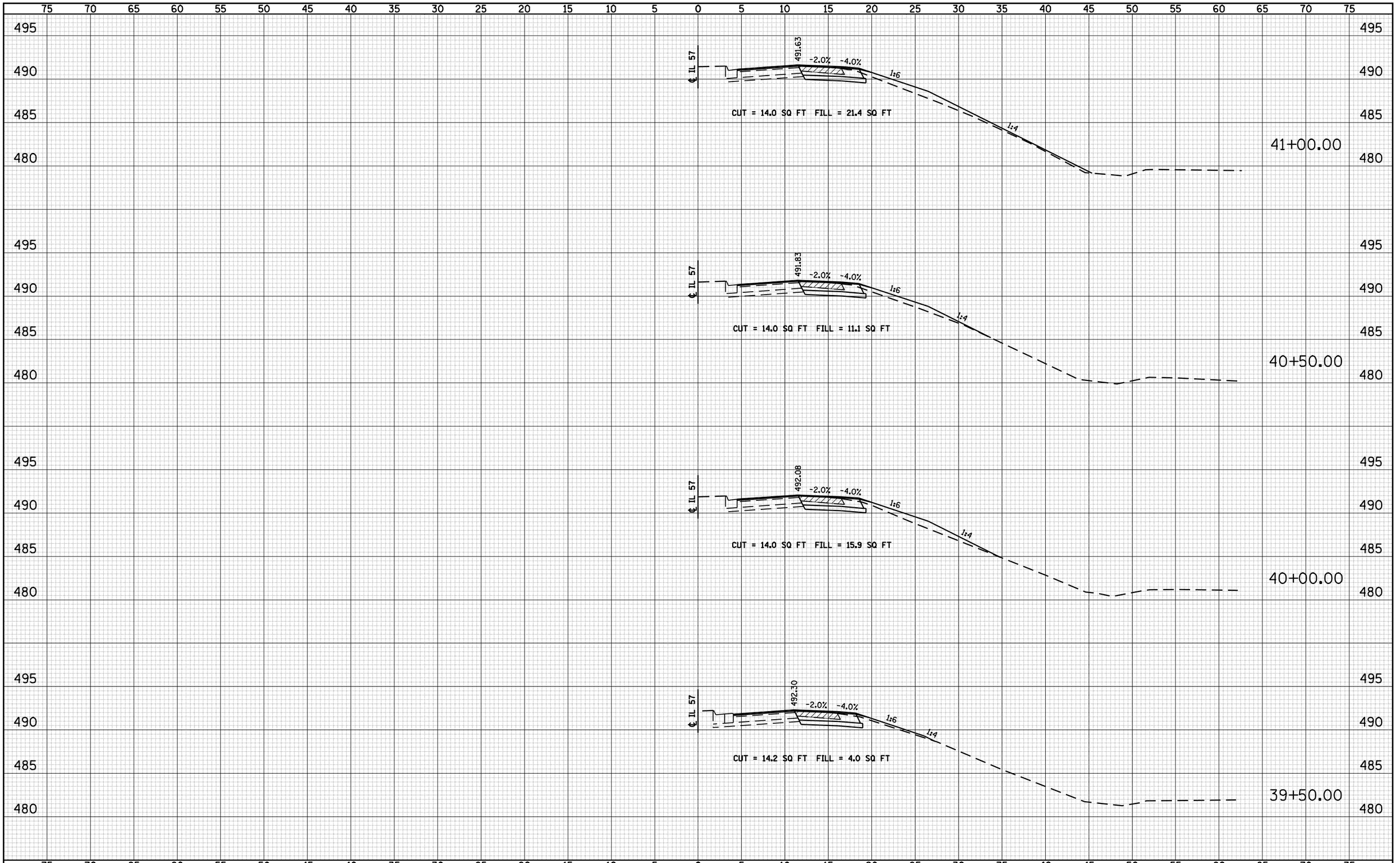
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 57 TURN LANE CROSS SECTIONS

SCALE: HORIZ 1"=10' VERT. 1"=5' | SHEET NO. 1 OF 3 SHEETS | STA. 37+21.85 TO STA. 39+00.00

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
172	1-(1,2,3,4,5)RS	ADAMS	165	163
		CONTRACT NO. 72A09		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



FINAL SURVEY

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

ORIGINAL SURVEY

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

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 57 TURN LANE CROSS SECTIONS

SCALE: HORIZ 1"=10' VERT 1"=5' | SHEET NO. 2 OF 3 SHEETS | STA. 39+50.00 TO STA. 41+00.00

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
172	1-(1,2,3,4,5)RS	ADAMS	165	164
		CONTRACT NO. 72A09		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

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

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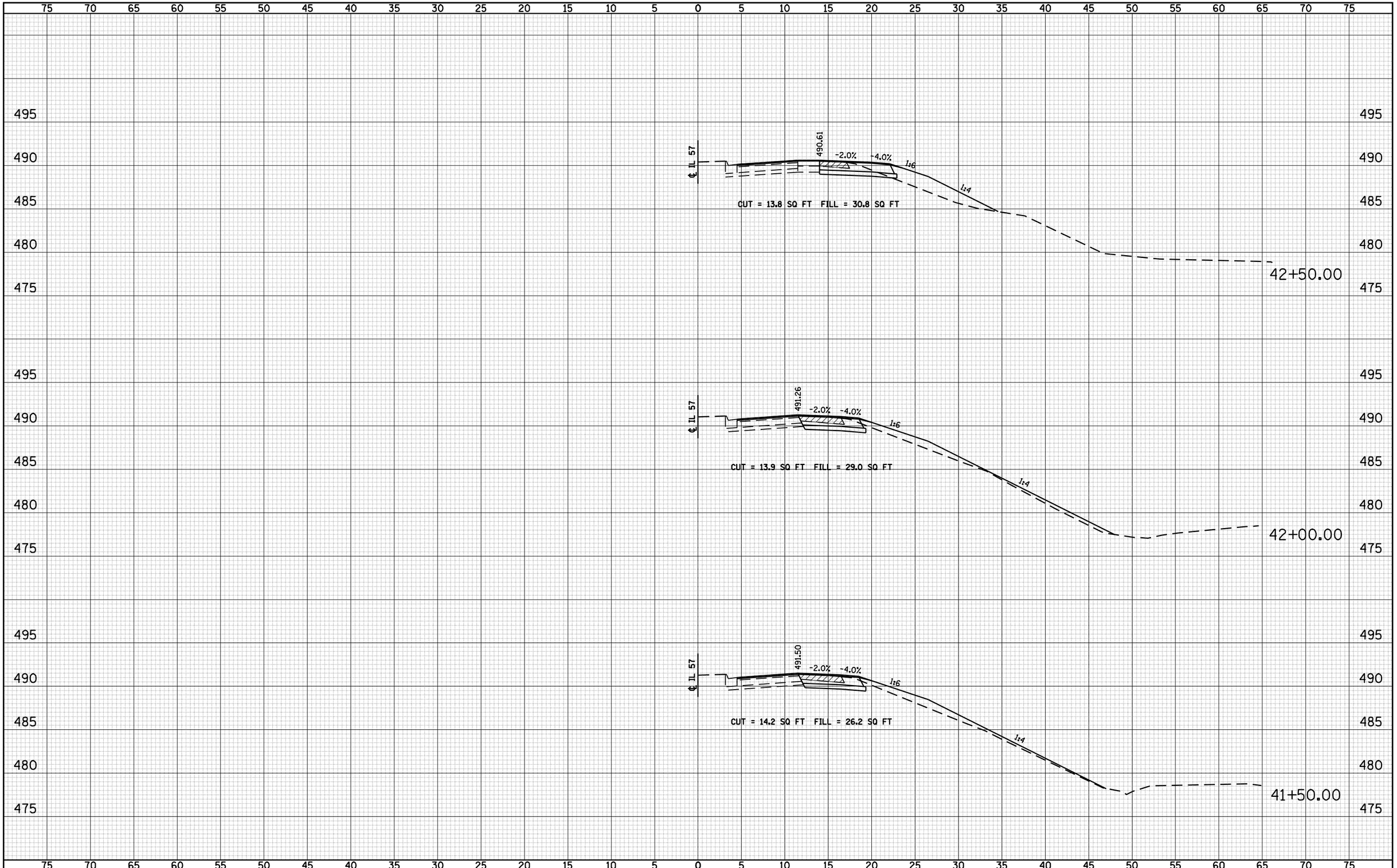
		TEMPLATE		
		AREAS		
NO.		AREAS CHECKED		



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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 57 TURN LANE CROSS SECTIONS

SCALE: HORIZ 1"=10' VERT 1"=5' | SHEET NO. 3 OF 3 SHEETS | STA. 41+50.00 | TO STA. 42+50.00

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
172	1-(1,2,3,4,5)RS	ADAMS	165	165
		CONTRACT NO. 72A09		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		