

FOR INDEX OF SHEETS, SEE SHEET NO. 2.

**TRAFFIC DATA**

ADT = 187,000 VEHICLES  
POSTED SPEED LIMIT = 55 MPH

PROJECT LOCATED IN THE  
VILLAGE OF OAK PARK,  
VILLAGE OF FOREST PARK,  
VILLAGE OF MAYWOOD,  
VILLAGE OF BROADVIEW,  
VILLAGE OF WESTCHESTER,  
VILLAGE OF BELLWOOD  
AND VILLAGE OF HILLSIDE

**STRUCTURE LOCATIONS**

I-290 EB OVER I-88  
SN 016-0085

I-290 C-D RAMP OVER HILLSIDE DR  
SN 016-2759

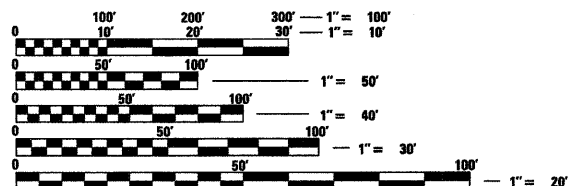
I-290 C-D RAMP OVER WOLF RD  
SN 016-2758

I-290 OVER WOLF RD  
SN 016-0086

I-290 OVER HILLSIDE DR  
SN 016-0986

I-290 OVER ADDISON CREEK  
SN 016-0088

I-290 OVER DES PLAINES RIVER  
SN 016-0090



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

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

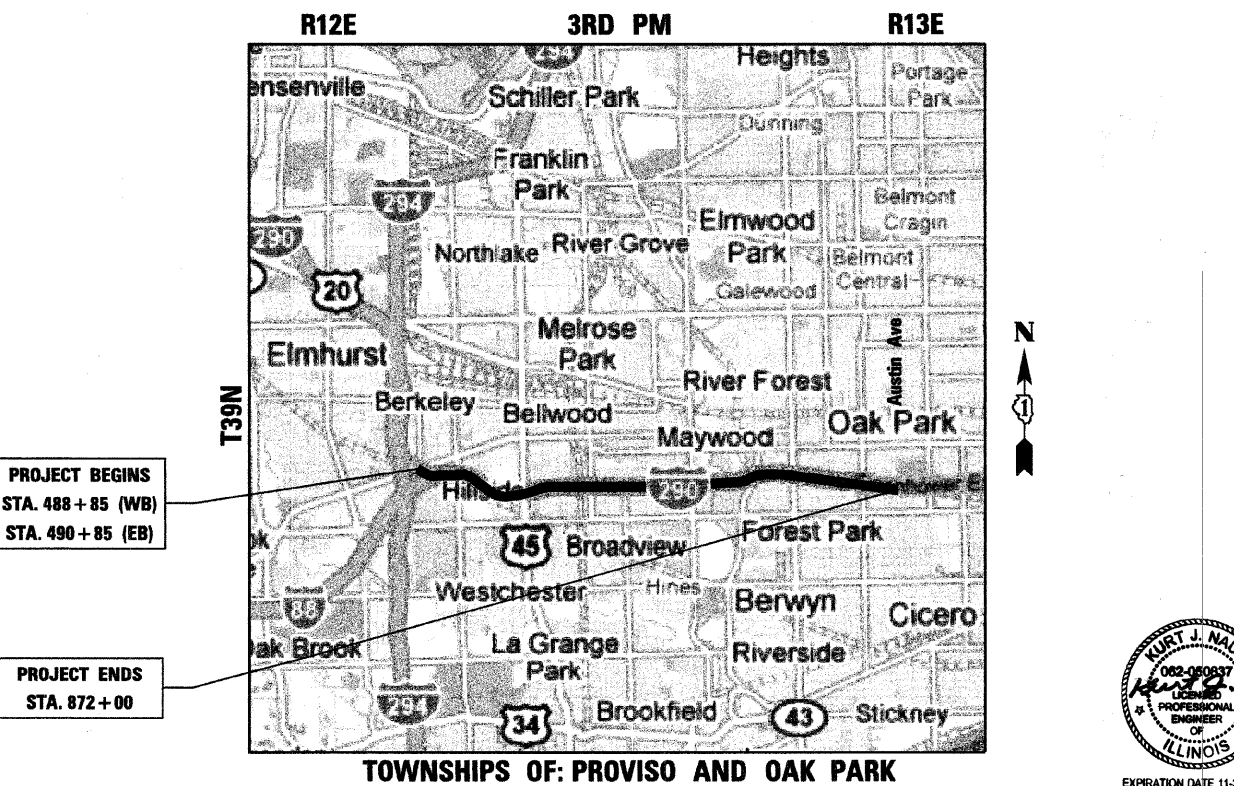
PROJECT ENGINEER: CRAIG BAUER (847) 705-4265  
PROJECT MANAGER: LONG TRAN (847) 705-4232

CONTRACT NO. 60G52

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS

**PROPOSED  
HIGHWAY PLANS**  
FAI-290 (EISENHOWER EXPRESSWAY)  
SECTION (3031.1, ETC., 3838)RS-5  
PROJECT: ACIM-290-4(114)084  
I-88 TO AUSTIN AVE.  
RESURFACING AND ROADWAY AND STRUCTURE REPAIRS  
COOK COUNTY  
C-91-493-09

NOTE: WHEREVER IN THESE PLANS  
REFERENCE IS MADE TO "TOTAL  
SHEETS-298 IT SHALL MEAN 413.



TOWNSHIPS OF: PROVISO AND OAK PARK

**LAYOUT MAP**

SCALE: 1 IN = 1.5 MI

GROSS LENGTH OF PROJECT = 38,315 LIN FT = 7.26 MILES  
NET LENGTH OF PROJECT = 38,315 LIN FT = 7.26 MILES

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	(3031.1, ETC., 3838)RS-5	COOK	1	1
FED. ROAD DIST. NO.	ILLINOIS	CONTRACT NO. 60G52		

\* 413 + 5 = 418

D-91-341-09



LOCATION OF SECTION INDICATED THUS: - [thick black line] -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS

SUBMITTED OCTOBER 7, 2009  
Diana M. D'Korja  
DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER  
December 4, 2009  
Charles G. Ingersoll  
ENGINEER OF DESIGN AND ENVIRONMENT  
December 4, 2009  
Christina M. Reed  
DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

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OF THE STATE OF ILLINOIS



**benesch**

alfred benesch & company  
Engineers • Surveyors • Planners  
205 North Michigan Avenue, Suite 2400  
Chicago, Illinois 60601  
312-565-0450

Rev.

**INDEX OF SHEETS**

SHEET NO.	DESCRIPTION
1	COVER SHEET
2	INDEX OF SHEETS, STANDARDS, GENERAL NOTES & HMA REQUIREMENTS
3-5	SUMMARY OF QUANTITIES
6-24	TYPICAL SECTIONS
25-27	SCHEDULES OF QUANTITIES
28-63	ALIGNMENTS
64-94	ROADWAY PLANS
95-190	MAINTENANCE OF TRAFFIC
191-221	PAVEMENT MARKING PLANS
222-250	STRUCTURAL PLANS
251	ROADWAY WEATHER INFORMATION SYSTEM SENSOR
252-267	TRAFFIC SURVEILLANCE LOOPS PLANS
268-283	TRAFFIC SYSTEM CENTER DETAILS
284-298	DISTRICT 1 DETAILS
299-302	SIGNING SCHEDULES OF QUANTITIES
303-328	SIGNING PLANS
329-405	SIGNING DETAILS
406-413	DISTRICT 1 SIGNING DETAILS

**GENERAL NOTES:**

- BEFORE STARTING WORK THE CONTRACTOR SHALL CALL DIGGER AT (312) 774-7000 FOR WORK WITHIN THE CHICAGO CITY LIMITS OR JULIE AT 811 OR (800) 892-0123 FOR WORK OUTSIDE CHICAGO CITY LIMITS FOR FIELD LOCATIONS OF BURIED UTILITIES. 72 HOUR ADVANCE NOTIFICATION IS REQUIRED.
- THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES AS REQUIRED.
- THE CONTRACTOR SHALL COORDINATE WORK ACTIVITIES WITH ADJACENT IDOT CONTRACTS 60157 AND 60653, ILLINOIS STATE TOLL HIGHWAY AUTHORITY CONTRACT-I-294 FROM I-88 TO NORTH AVENUE, AND VALVE MAINTENANCE CONTRACT FOR BROADVIEW-WESTCHESTER JOINT WATER AGENCY (BWJWA) AT EB I-290, 100 FEET EAST OF DES PLAINES RIVER.
- THE CONTRACTOR WILL NOT BE ALLOWED TO SET UP A YARD OR FIELD OFFICE ON STATE PROPERTY WITHOUT WRITTEN PERMISSION FROM THE DEPARTMENT.
- VERTICAL CLEARANCES OF BRIDGES OVER I-290 SHALL BE MAINTAINED. HMA SURFACE REMOVAL AND PROPOSED HMA SURFACE THICKNESS WILL BE VARIED AS DIRECTED BY THE ENGINEER IF THE EXISTING BITUMINOUS DEPTH IS LESS THAN 2". THE CONTRACTOR SHALL VERIFY ALL BRIDGE CLEARANCES BEFORE AND AFTER CONSTRUCTION AND FURNISH RESULTS TO THE ENGINEER. THIS WORK SHALL BE INCLUDED IN THE LUMP SUM PRICE FOR CONSTRUCTION LAYOUT.
- WHERE ARTIFICIAL LIGHTING IS USED IN NIGHT OPERATIONS, THE CONTRACTOR SHALL EXERCISE THE UTMOST PRECAUTIONS IN PREVENTING ADVERSE VISIBILITY TO THE MOTORING PUBLIC AND ADJOINING RESIDENTIAL AREAS.
- PATCHING, CURB AND GUTTER REMOVAL AND REPLACEMENT, AND SHOULDER RECONSTRUCTION LIMITS ARE NOT SHOWN ON THE PLANS. LIMITS OF THIS WORK WILL BE DETERMINED BY THE ENGINEER.
- BUTT JOINTS WILL BE INSTALLED AT THE END OF ALL RESURFACING SECTIONS TO MATCH EXISTING PAVEMENT. SEE DISTRICT DETAIL BD400-05 - BUTT JOINT AND HMA TAPER DETAILS FOR ALL PCC AND HMA BUTT JOINTS.
- CONTACT EXPRESSWAY OPERATIONS AT (847) 705-4151 TWO WEEKS BEFORE INSTALLING FINAL PAVEMENT MARKINGS.
- THE CONTRACTOR SHALL SWEEP AND CLEAN THE PAVEMENT SURFACE, PER ARTICLE 107.15 OF THE STANDARD SPECIFICATIONS AND AS DIRECTED BY THE ENGINEER.
- TEMPORARY EDGE LINES SHOWN IN THE SUGGESTED MAINTENANCE OF TRAFFIC SHALL BE INSTALLED WITHIN 24 HOURS OF MILLING OR BINDER PLACEMENT.
- THE ALIGNMENTS AND SUPPORTING DATA SHOWN IN THE PLANS WAS DEVELOPED FROM PREVIOUS PLANIMETRICS AND AERIAL PHOTOGRAPHY FURNISHED BY THE DEPARTMENT AND IS NOT THE RESULT OF A GROUND SURVEY. THEREFORE, THE ALIGNMENTS AND SUPPORTING DATA SHOWN IN THE PLANS IS FOR REFERENCE PURPOSES ONLY. THE RELATIVE ACCURACY OF THE INFORMATION IS UNKNOWN AND CANNOT BE GUARANTEED. THE CONTRACTOR MAY BE REQUIRED TO ADJUST LAYOUT TO MATCH ACTUAL FIELD CONDITIONS AND THE INTENT OF THE PLANS. ALL ALIGNMENTS ARE BASELINES.
- BEFORE BEGINNING ANY WORK, THE CONTRACTOR SHALL RETAIN AND RECORD (FOR FUTURE REFERENCES), ALL EXISTING PAVEMENT MARKING LINES IN ORDER THAT THESE LOCATIONS CAN BE RE-ESTABLISHED FOR STRIPING. EXACT LOCATIONS OF ALL STRIPING SHALL BE AS DIRECTED BY THE ENGINEER.
- DRAINAGE ADJUSTMENT, CLEANING OR RECONSTRUCTION LOCATIONS WILL BE DETERMINED IN THE FIELD BY THE ENGINEER.
- EXISTING BROKEN FRAMES AND LIDS SHALL BE REMOVED AND DISPOSED OF BY THE CONTRACTOR AND SHALL BE REPLACED AS DIRECTED BY THE ENGINEER. REPLACEMENT FRAMES AND LIDS WILL BE PAID FOR IN ACCORDANCE WITH ARTICLE 109.04 OF THE STANDARD SPECIFICATIONS UNLESS A SEPARATE PAY ITEM HAS BEEN PROVIDED.
- VERTICAL BARRICADES WILL REMAIN IN PLACE ALONG THE EDGES OF PAVEMENT AS SHOWN IN THE SUGGESTED MAINTENANCE OF TRAFFIC PLANS UNTIL THE SURFACE COURSE AND PROPOSED PAVEMENT MARKING EDGE LINES HAVE BEEN COMPLETED.
- DISPOSAL OF THE SHOULDER CUTTING AND CLEAN SWEEPING OF THE SHOULDERS SHALL BE COMPLETED PRIOR TO THE OPENING OF THE SHOULDERS AND TRAFFIC. DISPOSAL AND SWEEPING SHALL BE INCLUDED IN THE COST OF "SHOULDER RUMBLE STRIPS".
- EXISTING PAVEMENT MARKINGS THAT CONFLICT WITH REVISED TRAFFIC PATTERNS SHALL BE REMOVED AS DIRECTED BY THE ENGINEER. THIS WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER SQUARE FOOT FOR PAVEMENT MARKING REMOVAL.

**IDOT STANDARDS**

STANDARD NO.	DESCRIPTION
000001-05	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
420001-07	PAVEMENT JOINTS
442001-04	CLASS A PATCHES
442201-03	CLASS C AND D PATCHES
515001-03	NAME PLATE FOR BRIDGES
635006-03	REFLECTOR AND TERMINAL MARKER PLACEMENT
635011-02	REFLECTOR MARKER AND MOUNTING DETAILS
642001-01	SHOULDER RUMBLE STRIPS
701101-02	OFF-ROAD OPERATIONS, MULTILANE, 4.5m (15') TO 600mm (24") FROM PAVEMENT EDGE
701106-02	OFF-ROAD OPERATIONS, MULTILANE, MORE THAN 15' (4.5m) AWAY
701400-04	APPROACH TO LANE CLOSURE, FREEWAY/EXPRESSWAY
701401-05	LANE CLOSURE, FREEWAY/EXPRESSWAY
701406-05	LANE CLOSURE, FREEWAY/EXPRESSWAY, DAY OPERATIONS ONLY
701411-06	LANE CLOSURE, MULTILANE, AT ENTRANCE OR EXIT RAMP, FOR SPEEDS ≥ 45 MPH
701421-02	LANE CLOSURE, MULTILANE, DAY OPERATIONS ONLY, FOR SPEEDS ≥ 45 MPH TO 55 MPH
701422-02	LANE CLOSURE, MULTILANE, FOR SPEEDS ≥ 45 MPH TO 55 MPH
701426-03	LANE CLOSURE, MULTILANE, INTERMITTENT OR MOVING OPERATIONS, FOR SPEEDS ≥ 45 MPH
701446-01	TWO LANE 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
720021-02	SIGN PANEL EXTRUDED ALUMINUM TYPE
780001-02	TYPICAL PAVEMENT MARKINGS
781001-03	TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS

**DISTRICT 1 DETAILS**

DETAIL	DESCRIPTION
BD600-03 (BD-8)	DETAILS FOR FRAMES AND LIDS ADJUSTMENT WITH MILLING
BD400-04 (BD-22)	PAVEMENT PATCHING FOR HMA SURFACED PAVEMENT
BD400-05 (BD-32)	BUTT JOINT AND HMA TAPER DETAILS
BD400-06 (BD-33)	HMA TAPER AT EDGE OF P.C.C. PAVEMENT
BE-600	ELECTRIC CONNECTION TO SIGN STRUCTURE SPAN TYPE
BE-601	ELECTRIC CONNECTION TO SIGN STRUCTURE CANTILEVER TYPE
BM-21	REMOVE AND REERECT STEEL PLATE BEAM GUARDRAIL
TC-8	FREEWAY ENTRANCE AND EXIT RAMP CLOSURE DETAILS
TC-9	TRAFFIC CONTROL DETAILS FOR FREEWAY SINGLE & MULTI-LANE WEAVE
TC-12	MULTI-LANE FREEWAY PAVEMENT MARKING DETAILS
TC-17	TRAFFIC CONTROL DETAILS FOR FREEWAY SHOULDER CLOSURES
TC-18	PARTIAL RAMP CLOSURES
TC-25	SIGNING FOR FLAGGING OPERATIONS AT WORK ZONE OPENINGS
TC-27	TRAFFIC CONTROL DETAILS FOR FREEWAY CENTER LANE CLOSURE SHOULDER LANE
	MILE POST MARKERS-GORE SIGNS-MAJOR GUIDE SIGN LAYOUT-ARROWS

**HOT-MIX ASPHALT REQUIREMENTS**

MIXTURE TYPE	THICKNESS	VOIDS
MAINLINE RESURFACING		
POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, STONE MATRIX ASPHALT, N80	2"	3.5% @ 80 Gyr
POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, STONE MATRIX ASPHALT, N80	2"	3.5% @ 80 Gyr
MAINLINE INSIDE SHOULDERS < 8'		
POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, STONE MATRIX ASPHALT, N80	2"	3.5% @ 80 Gyr
POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, STONE MATRIX ASPHALT, N80	2"	3.5% @ 80 Gyr
MAINLINE OUTSIDE SHOULDERS AND INSIDE SHOULDERS > 8'		
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70	1-1/2"	4% @ 70 Gyr
HOT-MIX ASPHALT BINDER COURSE, IL-19.0 N70	2-1/4"	4% @ 70 Gyr
RAMPS AND SHOULDER RESURFACING		
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70	1 1/2"	4% @ 70 Gyr
HOT-MIX ASPHALT BINDER COURSE, IL-19.0 N70	2-1/4"	4% @ 70 Gyr
IL RTE 38 (ROOSEVELT ROAD) RAMPS		
POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "F", N90	1-3/4"	4% @ 90 Gyr
POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N90	2-1/4"	4% @ 90 Gyr
PATCHING		
CLASS D PATCHES OF TYPE AND THICKNESS SPECIFIED (HMA BINDER IL-25mm)	10"	4% @ 105 Gyr
HOT-MIX ASPHALT REPLACEMENT OVER PATCHES (HMA BINDER IL-25mm)	3 1/4" OR 4"	4% @ 105 Gyr
SHOULDER RECONSTRUCTION		
HOT-MIX ASPHALT SHOULDER, 10" (HMA BINDER IL-19mm)	10"	4% @ 70 Gyr
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70	1-1/2"	4% @ 70 Gyr
HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70	2-1/4"	4% @ 70 Gyr
STABILIZED SUBBASE HOT-MIX ASPHALT, 4"	4"	2% @ 30 Gyr

UNIT WEIGHT USED TO CALCULATE ALL HOT-MIX ASPHALT SMA SURFACE COURSE IS 135 LBS/SQ YD/IN.  
 UNITS WEIGHT USED TO CALCULATE ALL OTHER HOT-MIX ASPHALT MIXTURES IS 112 LBS/SQ YD/IN.

THE "AC TYPE" FOR POLYMERIZED HMA MIXES SHALL BE "SBS/SBR PG 70-22" AND FOR NON-POLYMERIZED HMA THE "AC TYPE" SHALL BE "PG 64-22" UNLESS MODIFIED BY DISTRICT ONE SPECIAL PROVISIONS.  
 FOR " PERCENT OF RAP" SEE DISTRICT ONE SPECIAL PROVISIONS.

FILE NAME =	DESIGNED - AJP	REVISED -	<b>benesch</b>	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>INDEX OF SHEETS, STANDARDS, GENERAL NOTES &amp; HMA REQUIREMENTS</b>			F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
#FILE#	DRAWN - TMB	REVISED -			290	(3031.1, ETC., 3830RS-5	COOK	298	2			
USER NAME = #USER#	CHECKED - JMM	REVISED -			CONTRACT NO. 60652							
PLOT DATE = #DATE#	DATE - 12/15/09	REVISED -			SCALE: N.T.S.	SHEET NO. 1 OF 1 SHEETS	STA. TO STA.	FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

SPECIALTY ITEM	CODE NUMBER	ITEM	UNIT	TOTAL QUANTITY	ROADWAY	SURVEILLANCE	BRIDGE SN 016-0088	BRIDGE SN 016-0090	BRIDGE SN 016-0086 SN 016-2758	BRIDGE SN 016-0085 SN 016-0986 SN 016-2759
					90% FED 10% STATE	90% FED 10% STATE	90% FED 10% STATE	90% FED 10% STATE	90% FED 10% STATE	90% FED 10% STATE
					CONSTRUCTION TYPE CODE					
					1000-2A	Y032-1F	X020-2A	X071-2A	X231-2A	X271-2A
	28000510	INLET FILTERS	EACH	89	89					
**	20100110	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	UNIT	1530	1530					
	40600200	BITUMINOUS MATERIALS (PRIME COAT)	TON	470	470					
	40600300	AGGREGATE (PRIME COAT)	TON	2,352	2,352					
	40600400	MIXTURE FOR CRACKS, JOINTS, AND FLANGEWAYS	TON	882	882					
**	20100210	TREE REMOVAL (OVER 15 UNITS DIAMETER)	UNIT	96	96					
	40600895	CONSTRUCTING TEST STRIP	EACH	2	2					
**	20101300	TREE PRUNING (1 TO 10 INCH DIAMETER)	EACH	18	18					
	40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	5,000	5,000					
**	20101350	TREE PRUNING (OVER 10 INCH DIAMETER)	EACH	23	23					
	40601005	HOT-MIX ASPHALT REPLACEMENT OVER PATCHES	TON	6,291	6,291					
**	21200500	STABILIZED SUBBASE HOT-MIX ASPHALT, 4"	SQ YD	1,000	1,000					
	40603085	HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70	TON	18,212	18,212					
**	44004250	PAVED SHOULDER REMOVAL	SQ YD	1,000	1,000					
	40603240	POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N90	TON	1,721	1,721					
**	40600100	BITUMINOUS MATERIALS (PRIME COAT)	GALLON	560	560					
	40603340	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70	TON	12,135	12,135					
	40603595	POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "F", N90	TON	1,338	1,338					
	42001300	PROTECTIVE COAT	SQ YD	600	600					
	44000162	HOT-MIX ASPHALT SURFACE REMOVAL, 3 1/4"	SQ YD	33,011	33,011					
	44000164	HOT-MIX ASPHALT SURFACE REMOVAL, 3 3/4"	SQ YD	182,332	182,332					
	44000165	HOT-MIX ASPHALT SURFACE REMOVAL, 4"	SQ YD	372,681	372,681					
	44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	2,812	2,812					
	44001700	COMBINATION CONCRETE CURB AND GUTTER REMOVAL AND REPLACEMENT	FOOT	100	100					
	44002213	HOT-MIX ASPHALT REMOVAL OVER PATCHES, 3 1/4"	SQ YD	1,320	1,320					
	44002216	HOT-MIX ASPHALT REMOVAL OVER PATCHES, 4"	SQ YD	27,014	27,014					
	44200549	CLASS A PATCHES, TYPE I, 10 INCH	SQ YD	300	300					
	44201761	CLASS D PATCHES, TYPE I, 10 INCH	SQ YD	167	167					
	44200553	CLASS A PATCHES, TYPE II, 10 INCH	SQ YD	300	300					
	44201765	CLASS D PATCHES, TYPE II, 10 INCH	SQ YD	8,850	8,850					
	44201769	CLASS D PATCHES, TYPE III, 10 INCH	SQ YD	3,205	3,205					
	44201771	CLASS D PATCHES, TYPE IV, 10 INCH	SQ YD	13,490	13,490					
	44213000	PATCHING REINFORCEMENT	SQ YD	600	600					
	44300900	STRIP REFLECTIVE CRACK CONTROL TREATMENT SYSTEM A	FOOT	302,635	302,635					
	44213200	SAW CUTS	FOOT	294	294					
	48209007	HOT-MIX ASPHALT SHOULDERS, 10"	SQ YD	19,432	19,432					
	50102400	CONCRETE REMOVAL	CU YD	46.7						46.7
	50157300	PROTECTIVE SHIELD	SQ YD	342					127	215
	50300255	CONCRETE SUPERSTRUCTURE	CU YD	46.7						46.7
	50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	6,180						6,180
	50800515	BAR SPLICERS	EACH	38						38
	52000110	PREFORMED JOINT STRIP SEAL	FOOT	328.0						328.0
Δ	55039700	STORM SEWERS TO BE CLEANED	FOOT	2,136	2,136					
	58700300	CONCRETE SEALER	SQ FT	130,648		18,601	29,427	39,898		42,722
	60300205	FRAMES AND GRATES TO BE ADJUSTED (SPECIAL)	EACH	441	441					
	60300310	FRAMES AND LIDS TO BE ADJUSTED (SPECIAL)	EACH	441	441					
	60605000	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24	FOOT	2,812	2,812					
	64200105	SHOULDER RUMBLE STRIP	FOOT	120,577	120,577					
	67100100	MOBILIZATION	L SUM	1	1					
	70108800	CHANGEABLE MESSAGE SIGN	CAL MO	40	40					

\*\* FOR LOCATIONS AND EXTENT OF WORK NOT SHOWN IN THE PLANS, THE CONTRACTOR SHALL COORDINATE WITH THE ENGINEER AND CONTACT RICK WANNER, ROADSIDE DEVELOPMENT ARCHITECT, IDOT ROADSIDE DEVELOPMENT UNIT AT (BNT) 705-4172 AT LEAST 72 HOURS PRIOR TO STARTING WORK.

Δ - Non-participating

FILE NAME =  
...prp1n\_ABC\_C2\_sec\_01.dgn  
USER NAME = tblank  
PLOT DATE = 10/16/2009

DESIGNED - AJP  
DRAWN - TMB  
CHECKED - JMM  
DATE - 10/16/09

REVISED -  
REVISED -  
REVISED -  
REVISED -

benesch

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: N.T.S. SHEET NO. 1 OF 3 SHEETS STA. TO STA.

F.A.I. RTE. 290 SECTION (3031.1, ETC., 3838)RS-5 COUNTY COOK TOTAL SHEETS 298 SHEET NO. 3  
CONTRACT NO. 60652  
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT

Rev.

SPECIALTY ITEM	CODE NUMBER	ITEM	UNIT	TOTAL QUANTITY	ROADWAY	SURVEILLANCE	BRIDGE SN 016-0088	BRIDGE SN 016-0090	BRIDGE SN 016-0086 SN 016-2758	BRIDGE SN 016-0085 SN 016-0986 SN 016-2759	TRAFFIC SIGNS 90% FED. 10% STATE
					90% FED 10% STATE	90% FED 10% STATE	90% FED 10% STATE	90% FED 10% STATE	90% FED 10% STATE	90% FED 10% STATE	
					CONSTRUCTION TYPE CODE						
					X000-2A	Y032-1F	X020-2A	X071-2A	X231-2A	X271-2A	Y002-1C
	70300210	TEMPORARY PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	109	109						
*	72000105	SIGN PANEL - TYPE 1 (SPECIAL)	SQ FT	228							228
	<del>70300220</del>	<del>TEMPORARY PAVEMENT MARKING - LINE 4"</del>	<del>FOOT</del>	<del>89,798</del>	<del>89,798</del>						
*	72000205	SIGN PANEL - TYPE 2 (SPECIAL)	SQ FT	1,578							1,578
	<del>70300230</del>	<del>TEMPORARY PAVEMENT MARKING - LINE 5"</del>	<del>FOOT</del>	<del>32,486</del>	<del>32,486</del>						
*	72000305	SIGN PANEL - TYPE 3 (SPECIAL)	SQ FT	12,166							12,166
	70300240	TEMPORARY PAVEMENT MARKING - LINE 8"	FOOT	38,204	38,204						
*	72400100	REMOVE SIGN PANEL ASSEMBLY - TYPE A	EACH	15							15
	<del>70300250</del>	<del>TEMPORARY PAVEMENT MARKING - LINE 8"</del>	<del>FOOT</del>	<del>27,451</del>	<del>27,451</del>						
*	72800100	TELESCOPING STEEL SIGN SUPPORT	FOOT	558							558
	<del>70300260</del>	<del>TEMPORARY PAVEMENT MARKING - LINE 12"</del>	<del>FOOT</del>	<del>4,366</del>	<del>4,366</del>						
*	73000105	WOOD SIGN SUPPORT, SPECIAL	FOOT	1,098							1,098
	<del>70301000</del>	<del>WORK ZONE PAVEMENT MARKING REMOVAL</del>	<del>SQ FT</del>	<del>49,243</del>	<del>49,243</del>						
*	84200600	REMOVAL OF LIGHTING UNIT, NO SALVAGE	EACH	65							65
	70400100	TEMPORARY CONCRETE BARRIER	FOOT	24,190	24,190						
*	X0326838	REMOVE SIGN PANEL - TYPE 1 (SPECIAL)	SQ FT	142							142
	70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	17,626	17,626						
*	X0326839	REMOVE SIGN PANEL - TYPE 2 (SPECIAL)	SQ FT	796							796
	78000100	THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	617	617						
*	X0326840	REMOVE SIGN PANEL - TYPE 3 (SPECIAL)	SQ FT	11,099							11,099
	78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	166,850	166,850						
*	X0326841	REMOVE SIGN PANEL ASSEMBLY - TYPE B (SPECIAL)	EACH	55							55
	78000400	THERMOPLASTIC PAVEMENT MARKING - LINE 8"	FOOT	937	937						
*	X0326842	MILE POST MARKER ASSEMBLY (SPECIAL)	EACH	28							28
	78000500	THERMOPLASTIC PAVEMENT MARKING - LINE 8"	FOOT	47,190	47,190						
*	78000600	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	15,231	15,231						
*	78000650	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	123	123						
*	78004210	PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - INLAID - LINE 4"	FOOT	2,048	2,048						
*	78004220	PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - INLAID - LINE 5"	FOOT	39,841	39,841						
*	78005100	EPOXY PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	1,000	1,000						
*	78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	4,278	4,278						
*	78005110	EPOXY PAVEMENT MARKING - LINE 4"	FOOT	446,804	446,804						
	78100105	RAISED REFLECTIVE PAVEMENT MARKER (BRIDGE)	EACH	80	80						
*	78005120	EPOXY PAVEMENT MARKING - LINE 5"	FOOT	119,608	119,608						
*	78008210	POLYUREA PAVEMENT MARKING TYPE I - LINE 4"	FOOT	17,617	17,617						
*	78005140	EPOXY PAVEMENT MARKING - LINE 8"	FOOT	41,679	41,679						
	78008220	POLYUREA PAVEMENT MARKING TYPE I - LINE 5"	FOOT	3,281	3,281						
*	78008240	POLYUREA PAVEMENT MARKING TYPE I - LINE 8"	FOOT	84	84						
	78008250	POLYUREA PAVEMENT MARKING TYPE I - LINE 12"	FOOT	1,226	1,226						
*	78200450	MONODIRECTIONAL GUARDRAIL REFLECTORS	EACH	300	300						
	<del>70200400</del>	<del>MONODIRECTIONAL PRISMATIC BARRIER REFLECTOR</del>	<del>EACH</del>	<del>4,524</del>	<del>4,524</del>						
*	78200530	BARRIER WALL MARKERS, TYPE C	EACH	1,935	1,935						
	78300100	PAVEMENT MARKING REMOVAL	SQ FT	30,301	30,301						
	78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	4,278	4,278						
*	81900200	TRENCH AND BACKFILL FOR ELECTRICAL WORK	FOOT	100		100					
*	85000200	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1	1						
*	88600100	DETECTOR LOOP, TYPE I	FOOT	170	170						
	X0326844	ROADSIDE DETECTOR	EACH	24		24					
	X0301424	SILICONE JOINT SEALER	FOOT	886.5			228.0	199.5	237.0	222.0	
	X0326845	SERVICE PROVIDER	CAL MD	12		12					
	X0322256	TEMPORARY INFORMATION SIGNING	SQ FT	2,081	2,081						
	X0326846	ATMS INTERFACE	L SUM	1		1					
	X0322729	MATERIAL TRANSFER DEVICE	TON	105,640	105,640						
	X0326847	TEMPORARY DETECTION SYSTEM MONTHLY MAINTENANCE	CAL MD	12		12					
	X0324685	TEST STRIP (STONE MATRIX ASPHALT)	EACH	2	2						
	X0326848	TEMPORARY DETECTION SYSTEM REMOVE AND SALVAGE	L SUM	1		1					
	X0325201	SHOULDER RUMBLE STRIP REMOVAL	SQ YD	362	362						
	X0325303	STRUCTURAL REPAIR OF CONCRETE (DEPTH GREATER THAN 5 INCHES)	SQ FT	42			32		10		
	X0325305	STRUCTURAL REPAIR OF CONCRETE (DEPTH EQUAL TO OR LESS THAN 5 INCHES)	SQ FT	50						50	
	X0325702	NIGHTTIME WORK ZONE LIGHTING	L SUM	1	1						

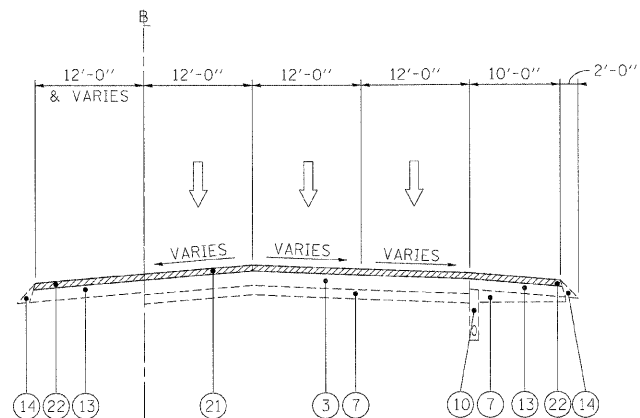
\* Specialty Items

FILE NAME =	DESIGNED - AJP	REVISED -	<b>benesch</b>	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>SUMMARY OF QUANTITIES</b>				F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
...prpIn_ABC.C2_sq_82.dgn	DRAWN - TMB	REVISED -							290	(3031.1, ETC., 383BRS-5	COOK	298	4
USER NAME = tblank	CHECKED - JMM	REVISED -			SCALE: N.T.S.	SHEET NO. 2 OF 3 SHEETS	STA.	TO STA.	CONTRACT NO. 60G52				
PLT DATE = 10/16/2009	DATE - 10/16/09	REVISED -							FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				
Rev.													

SPECIALTY ITEM	CODE NUMBER	ITEM	UNIT	TOTAL QUANTITY	ROADWAY	SURVEILLANCE	BRIDGE SN 016-0088	BRIDGE SN 016-0090	BRIDGE SN 016-0086 SN 016-2758	BRIDGE SN 016-0085 SN 016-0986 SN 016-2759
					90% FED 10% STATE	90% FED 10% STATE	90% FED 10% STATE	90% FED 10% STATE	90% FED 10% STATE	90% FED 10% STATE
					CONSTRUCTION TYPE CODE					
					1000-2A	Y032-1F	X020-2A	X071-2A	X231-2A	X271-2A
	X0325739	HOT-MIX ASPHALT SHOULDER REMOVAL AND REPLACEMENT (SPECIAL)	SQ YD	25,740	25,740					
	X0325754	REPLACEMENT OF SENSORS FOR ROADWAY WEATHER INFORMATION SYSTEM	L SUM	1		1				
	X0325775	WET REFLECTIVE TEMPORARY TAPE, TYPE III, 4 INCH	FOOT	176,098	176,098					
	X0325840	WET REFLECTIVE TEMPORARY TAPE, TYPE III, 12 INCH	FOOT	6,841	6,841					
	X0325876	WET REFLECTIVE TEMPORARY TAPE TYPE III, 8 INCH TYPE III	FOOT	51,323	51,323					
	X0325842	WET REFLECTIVE TEMPORARY TAPE, LETTERS AND SYMBOLS	SQ FT	109	109					
	X0326107	WET REFLECTIVE TEMPORARY TAPE, TYPE III, 5 INCH	FOOT	44,592	44,592					
	X4066580	POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, STONE MATRIX ASPHALT, N80	TON	57,738	57,738					
	X4066685	POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, STONE MATRIX ASPHALT, N80	TON	47,902	47,902					
	X6700410	ENGINEER'S FIELD OFFICE, TYPE A (SPECIAL)	CAL MO	10	10					
	X7011015	TRAFFIC CONTROL AND PROTECTION (EXPRESSWAYS)	L SUM	1	1					
**	X0322059	WEED CONTROL, PRE-EMERGENT GRANULAR HERBICIDE	POUND	200	200					
	X7013820	TRAFFIC CONTROL SURVEILLANCE, EXPRESSWAYS	CAL DA	65	65					
**	X2010300	TREE REMOVAL (UNDER 6 UNITS DIAMETER)	UNIT	248	248					
	X8730312	ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 18 4/C, TWISTED, SHIELDED	FOOT	14,932	14,932					
**	Z0064800	SELECTIVE CLEARING	UNIT	305	305					
	X8850102	INDUCTION LOOP	FOOT	4,086	4,086					
**	X0325222	WEED CONTROL, BASAL TREATMENT	GALLON	15	15					
	Z0001800	APPROACH SLAB REPAIR (PARTIAL DEPTH)	SQ YD	124.0			24.4	49.0	20.6	30.0
**	X0325921	PLANT CARE	SQ YD	6,790	6,790					
	Z0013798	CONSTRUCTION LAYOUT	L SUM	1	1					
**	X0322856	WEED CONTROL, NON-SELECTIVE AND NON-RESIDUAL	GALLON	2	2					
	Z0018200	DECK SLAB REPAIR (PARTIAL)	SQ YD	82.5			18.6	10.0	38.3	15.6
**	K0036120	MULCH PLACEMENT 4"	SQ YD	4,150	4,150					
	Z0018500	DRAINAGE STRUCTURES TO BE CLEANED	EACH	89	89					
** Δ	K1003660	MOWING CYCLES	EACH	2	2					
	Z0018600	DRAINAGE STRUCTURES TO BE RECONSTRUCTED	EACH	27	27					
	Z0030250	IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE), TEST LEVEL 3	EACH	18	18					
	Z0030330	IMPACT ATTENUATORS, RELOCATE (FULLY REDIRECTIVE), TEST LEVEL 3	EACH	2	2					
	Z0030280	IMPACT ATTENUATORS, TEMPORARY (FULLY REDIRECTIVE, NARROW), TEST LEVEL 3	EACH	2	2					
	Z0030350	IMPACT ATTENUATORS, RELOCATE (NON-REDIRECTIVE), TEST LEVEL 3	EACH	13	13					
	Z0048865	RAILROAD PROTECTIVE LIABILITY INSURANCE	L SUM	1	1					
**	X2186500	ASPHALTIC EMULSION SLURRY SEAL	SQ YD	10,000	10,000					
	Z0073200	TEMPORARY SHORING AND CRIBBING	EACH	6						6
	Z0074000	TRAINEES	HOUR	1500	1500					
	X0326768	CONDUIT IN TRENCH, HIGH DENSITY POLYETHYLENE, COILABLE	FOOT	100		100				
**	X0325223	FIBER ASPHALT	POUND	334	334					
	X0326765	CLEANING AND PAINTING EXPOSED REBAR (SPECIAL)	SQ FT	10					10	
**	X0326701	WEED CONTROL, BROADLEAF IN TURF	POUND	0.8	0.8					
**	X0326766	CLEAN & RESEAL RELIEF JOINT	FOOT	798.5			189.0	217.5	144.0	248.0
**	X0326843	STAINING EXISTING COLORED CONCRETE SURFACES	SQ FT	2,000	2,000					
	X0326769	REMOVE AND REINSTALL CHAIN LINK FENCE POST	EACH	7				7		

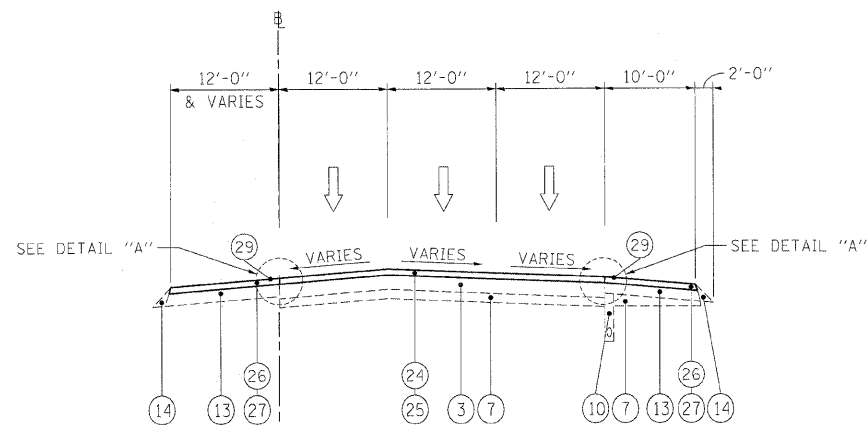
Δ - Non-participating  
 \* - Specialty Items  
 @ - Y080

\*\* FOR LOCATIONS AND EXTENT OF WORK NOT SHOWN IN THE PLANS, THE CONTRACTOR SHALL COORDINATE WITH THE ENGINEER AND CONTACT RICK WANNER, ROADSIDE DEVELOPMENT ARCHITECT, IDOT ROADSIDE DEVELOPMENT UNIT AT (847) 706-4172 AT LEAST 72 HOURS PRIOR TO STARTING WORK.



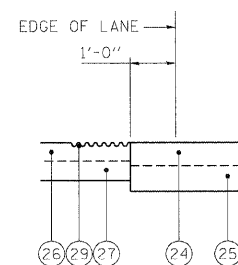
**EXISTING TYPICAL SECTION**

STA 488+85 TO STA 490+60 (WB FAI 290)



**PROPOSED TYPICAL SECTION**

STA 488+85 TO STA 490+60 (WB FAI 290)



**DETAIL "A"**

**LEGEND**

- ① EXISTING HMA OVERLAY, VARIES\*
- ② EXISTING C.R.C. PAVEMENT, 12"
- ③ EXISTING P.C.C. PAVEMENT, 10"
- ④ EXISTING C.R.C. PAVEMENT, 9"
- ⑤ EXISTING C.R.C. PAVEMENT
- ⑥ EXISTING P.C.C. BASE COURSE
- ⑦ EXISTING STABILIZED SUB-BASE, 4"
- ⑧ EXISTING SUB-BASE GRANULAR MATERIAL, TYPE A
- ⑨ EXISTING PGE WRAPPED IN FABRIC (VARIOUS LOCATIONS)
- ⑩ EXISTING PIPE UNDERDRAIN
- ⑪ EXISTING P.C.C. SHOULDER
- ⑫ EXISTING STABILIZED MEDIAN SURFACE
- ⑬ EXISTING BITUMINOUS SHOULDER
- ⑭ EXISTING AGGREGATE SHOULDER
- ⑮ EXISTING AGGREGATE SHOULDER, TYPE B
- ⑯ EXISTING COMB. CONC. CURB & GUTTER, TYPE M-2.12
- ⑰ EXISTING COMB. CONC. CURB & GUTTER, TYPE M-6.24
- ⑱ EXISTING COMB. CONC. CURB & GUTTER, TYPE B-6.24
- ⑲ EXISTING P.C.C. BARRIER WALL
- ⑳ EXISTING STEEL PLATE BEAM GUARDRAIL
- ㉑ HOT-MIX ASPHALT SURFACE REMOVAL 4"
- ㉒ HOT-MIX ASPHALT SURFACE REMOVAL 3 3/4"
- ㉓ HOT-MIX ASPHALT SURFACE REMOVAL 3/4"
- ㉔ POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, STONE MATRIX ASPHALT, N80, 2"
- ㉕ POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, STONE MATRIX ASPHALT, N80, 2"
- ㉖ HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70, 1 1/2"
- ㉗ HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70, 2 1/4"
- ㉘ NOT USED
- ㉙ PROPOSED SHOULDER RUMBLE STRIP (STD. 642001-01)
- ㉚ HOT-MIX ASPHALT SHOULDER REMOVAL AND REPLACEMENT (SPECIAL)

**NOTES**

1. THE CONTRACTOR SHALL MAINTAIN THE EXISTING CROSS SLOPES.
2. THE EXISTING HMA IN THE FLAG OF THE CURB AND GUTTER SHALL BE REMOVED AND REPLACED AT NO ADDITIONAL COST. THESE COSTS SHALL BE INCLUDED IN THE UNIT PRICES FOR THE VARIOUS MILLING AND RESURFACING OPERATIONS MEASURED TO THE EDGE OF THE SHOULDER.
3. THE COST OF HAND REMOVAL OF HMA SURFACE AROUND CASTINGS SHALL BE INCLUDED IN THE COST OF HMA SURFACE REMOVAL OF THE THICKNESS SPECIFIED.
4. THE CONTRACTOR SHALL PATCH FIRST BEFORE MILLING.

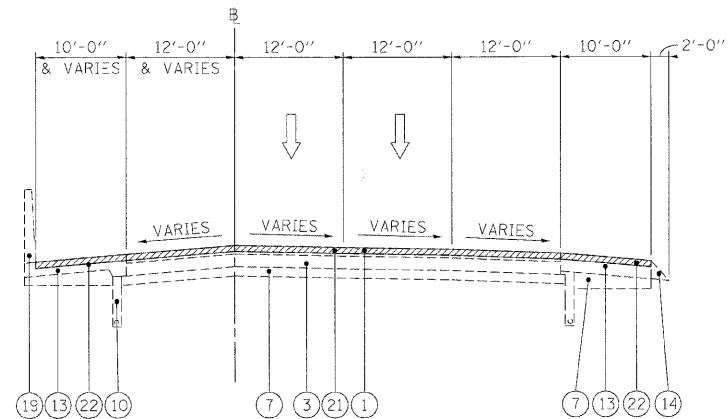
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USER NAME = jmajewski	CHECKED - JMM	REVISED -
PLOT DATE = 11/13/2009	DATE = 10/16/09	REVISED -

**benesch**

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

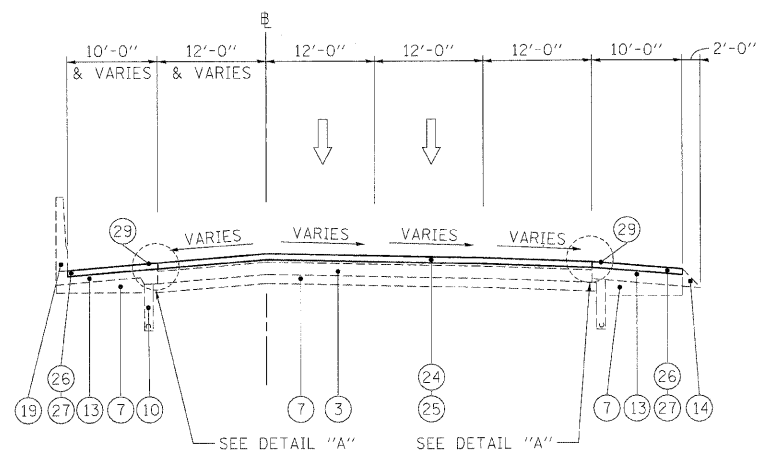
<b>TYPICAL SECTIONS I-290 MAINLINE</b>			
SCALE: N.T.S.	SHEET NO. 1 OF 19 SHEETS	STA.	TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	(3031.1, ETC., 3838)RS-5	COOK	298	6
FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT			CONTRACT NO. 60G52	



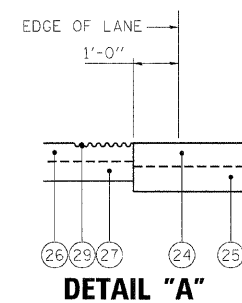
**EXISTING TYPICAL SECTION**

STA 490+60 TO STA 499+42 (WB FAI 290)



**PROPOSED TYPICAL SECTION**

STA 490+60 TO STA 499+42 (WB FAI 290)



**LEGEND**

- ① EXISTING HMA OVERLAY, VARIES\*
- ② EXISTING C.R.C. PAVEMENT, 12"
- ③ EXISTING P.C.C. PAVEMENT, 10"
- ④ EXISTING C.R.C. PAVEMENT, 9"
- ⑤ EXISTING C.R.C. PAVEMENT
- ⑥ EXISTING P.C.C. BASE COURSE
- ⑦ EXISTING STABILIZED SUB-BASE, 4"
- ⑧ EXISTING SUB-BASE GRANULAR MATERIAL, TYPE A
- ⑨ EXISTING PGE WRAPPED IN FABRIC (VARIOUS LOCATIONS)
- ⑩ EXISTING PIPE UNDERDRAIN
- ⑪ EXISTING P.C.C. SHOULDER
- ⑫ EXISTING STABILIZED MEDIAN SURFACE
- ⑬ EXISTING BITUMINOUS SHOULDER
- ⑭ EXISTING AGGREGATE SHOULDER
- ⑮ EXISTING AGGREGATE SHOULDER, TYPE B
- ⑯ EXISTING COMB. CONC. CURB & GUTTER, TYPE M-2.12
- ⑰ EXISTING COMB. CONC. CURB & GUTTER, TYPE M-6.24
- ⑱ EXISTING COMB. CONC. CURB & GUTTER, TYPE B-6.24
- ⑲ EXISTING P.C.C. BARRIER WALL
- ⑳ EXISTING STEEL PLATE BEAM GUARDRAIL
- ㉑ HOT-MIX ASPHALT SURFACE REMOVAL 4"
- ㉒ HOT-MIX ASPHALT SURFACE REMOVAL 3 3/4"
- ㉓ HOT-MIX ASPHALT SURFACE REMOVAL 3 1/4"
- ㉔ POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, STONE MATRIX ASPHALT, N80, 2"
- ㉕ POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, STONE MATRIX ASPHALT, N80, 2"
- ㉖ HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70, 1 1/2"
- ㉗ HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70, 2 1/4"
- ㉘ NOT USED
- ㉙ PROPOSED SHOULDER RUMBLE STRIP (STD. 642001-01)
- ㉚ HOT-MIX ASPHALT SHOULDER REMOVAL AND REPLACEMENT (SPECIAL)

**NOTES**

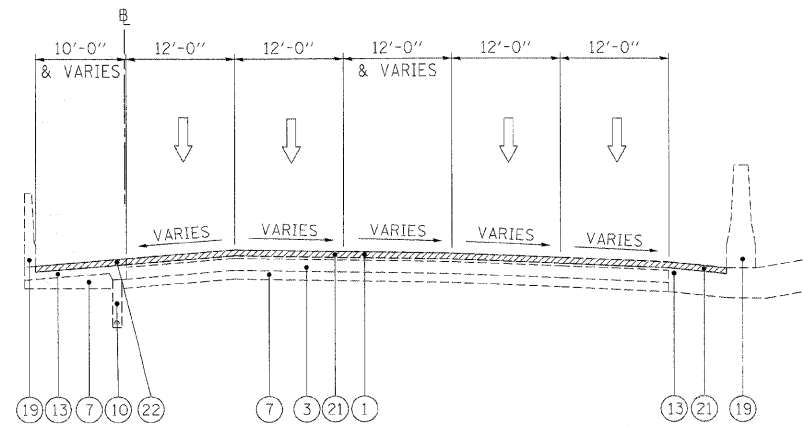
1. THE CONTRACTOR SHALL MAINTAIN THE EXISTING CROSS SLOPES.
2. THE EXISTING HMA IN THE FLAG OF THE CURB AND GUTTER SHALL BE REMOVED AND REPLACED AT NO ADDITIONAL COST. THESE COSTS SHALL BE INCLUDED IN THE UNIT PRICES FOR THE VARIOUS MILLING AND RESURFACING OPERATIONS MEASURED TO THE EDGE OF THE SHOULDER.
3. THE COST OF HAND REMOVAL OF HMA SURFACE AROUND CASTINGS SHALL BE INCLUDED IN THE COST OF HMA SURFACE REMOVAL OF THE THICKNESS SPECIFIED.
4. THE CONTRACTOR SHALL PATCH FIRST BEFORE MILLING.

FILE NAME *	DESIGNED - AJP	REVISED -
...\\prpln_abc\c2_355\ml_typ_01.dgn	DRAWN - TMB	REVISED -
USER NAME * jmajewski	CHECKED - JMM	REVISED -
PLOT DATE * 11/13/2009	DATE - 10/16/09	REVISED -

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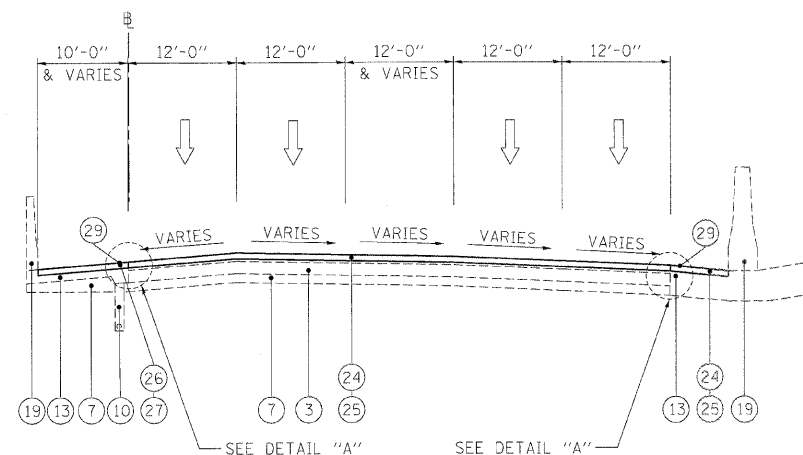
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>TYPICAL SECTIONS I-290 MAINLINE</b>		F.A.I. R.T.E.	SECTION	COUNTY	TOTAL SHEETS
SCALE: N.T.S.		290	(3031.1, ETC., 3830RS-5)	COOK	298 7
SHEET NO. 2 OF 19 SHEETS		FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT		CONTRACT NO. 60G52	



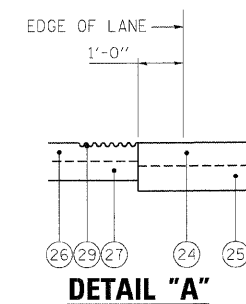
**EXISTING TYPICAL SECTION**

STA 499+42 TO STA 505+50 (WB FAI 290)



**PROPOSED TYPICAL SECTION**

STA 499+42 TO STA 505+50 (WB FAI 290)



**LEGEND**

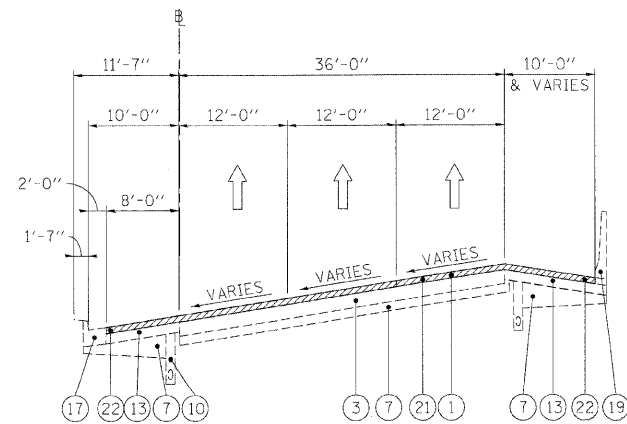
- ① EXISTING HMA OVERLAY, VARIES•
- ② EXISTING C.R.C. PAVEMENT, 12"
- ③ EXISTING P.C.C. PAVEMENT, 10"
- ④ EXISTING C.R.C. PAVEMENT, 9"
- ⑤ EXISTING C.R.C. PAVEMENT
- ⑥ EXISTING P.C.C. BASE COURSE
- ⑦ EXISTING STABILIZED SUB-BASE, 4"
- ⑧ EXISTING SUB-BASE GRANULAR MATERIAL, TYPE A
- ⑨ EXISTING PGE WRAPPED IN FABRIC (VARIOUS LOCATIONS)
- ⑩ EXISTING PIPE UNDERDRAIN
- ⑪ EXISTING P.C.C. SHOULDER
- ⑫ EXISTING STABILIZED MEDIAN SURFACE
- ⑬ EXISTING BITUMINOUS SHOULDER
- ⑭ EXISTING AGGREGATE SHOULDER
- ⑮ EXISTING AGGREGATE SHOULDER, TYPE B
- ⑯ EXISTING COMB. CONC. CURB & GUTTER, TYPE M-2.12
- ⑰ EXISTING COMB. CONC. CURB & GUTTER, TYPE M-6.24
- ⑱ EXISTING COMB. CONC. CURB & GUTTER, TYPE B-6.24
- ⑲ EXISTING P.C.C. BARRIER WALL
- ⑳ EXISTING STEEL PLATE BEAM GUARDRAIL
- ㉑ HOT-MIX ASPHALT SURFACE REMOVAL 4"
- ㉒ HOT-MIX ASPHALT SURFACE REMOVAL 3 3/4"
- ㉓ HOT-MIX ASPHALT SURFACE REMOVAL 3/4"
- ㉔ POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, STONE MATRIX ASPHALT, N80, 2"
- ㉕ POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, STONE MATRIX ASPHALT, N80, 2"
- ㉖ HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70, 1 1/2"
- ㉗ HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70, 2 1/4"
- ㉘ NOT USED
- ㉙ PROPOSED SHOULDER RUMBLE STRIP (STD. 642001-01)
- ㉚ HOT-MIX ASPHALT SHOULDER REMOVAL AND REPLACEMENT (SPECIAL)

**NOTES**

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4. THE CONTRACTOR SHALL PATCH FIRST BEFORE MILLING.

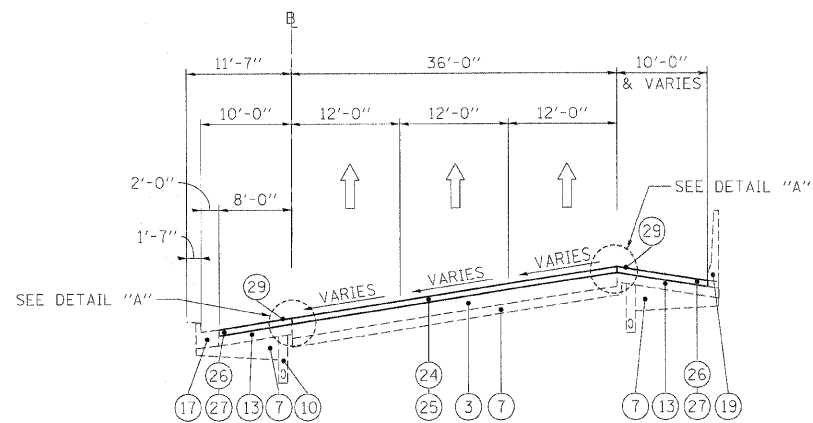
FILE NAME =	DESIGNED - AJP	REVISED -	<b>benesch</b>	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>TYPICAL SECTIONS I-290 MAINLINE</b>			F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
...\\ppp\h_abc_c2_395_mil_typ_05.dgn	DRAWN - TMB	REVISED -			290	13031.1, ETC., 3838)RS-5	COOK	298	8			
USER NAME = jmajewski	CHECKED - JMM	REVISED -			SCALE: N.T.S. SHEET NO. 3 OF 19 SHEETS STA. TO STA.			CONTRACT NO. 60G52				
PLOT DATE = 11/13/2009	DATE = 10/16/09	REVISED -			FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT				
					SCALE: N.T.S. SHEET NO. 3 OF 19 SHEETS STA. TO STA.			CONTRACT NO. 60G52				





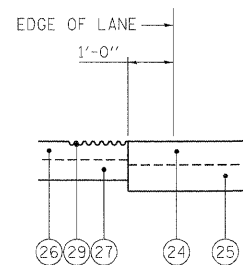
**EXISTING TYPICAL SECTION**

STA 493+60 TO STA 501+90 (EB FAI 290)



**PROPOSED TYPICAL SECTION**

STA 493+60 TO STA 501+90 (EB FAI 290)



**DETAIL "A"**

**LEGEND**

- ① EXISTING HMA OVERLAY, VARIES\*
- ② EXISTING C.R.C. PAVEMENT, 12"
- ③ EXISTING P.C.C. PAVEMENT, 10"
- ④ EXISTING C.R.C. PAVEMENT, 9"
- ⑤ EXISTING C.R.C. PAVEMENT
- ⑥ EXISTING P.C.C. BASE COURSE
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- ⑧ EXISTING SUB-BASE GRANULAR MATERIAL, TYPE A
- ⑨ EXISTING PGE WRAPPED IN FABRIC (VARIOUS LOCATIONS)
- ⑩ EXISTING PIPE UNDERDRAIN
- ⑪ EXISTING P.C.C. SHOULDER
- ⑫ EXISTING STABILIZED MEDIAN SURFACE
- ⑬ EXISTING BITUMINOUS SHOULDER
- ⑭ EXISTING AGGREGATE SHOULDER
- ⑮ EXISTING AGGREGATE SHOULDER, TYPE B
- ⑯ EXISTING COMB. CONC. CURB & GUTTER, TYPE M-2.12
- ⑰ EXISTING COMB. CONC. CURB & GUTTER, TYPE M-6.24
- ⑱ EXISTING COMB. CONC. CURB & GUTTER, TYPE B-6.24
- ⑲ EXISTING P.C.C. BARRIER WALL
- ⑳ EXISTING STEEL PLATE BEAM GUARDRAIL
- ㉑ HOT-MIX ASPHALT SURFACE REMOVAL 4"
- ㉒ HOT-MIX ASPHALT SURFACE REMOVAL 3 3/4"
- ㉓ HOT-MIX ASPHALT SURFACE REMOVAL 3 1/4"
- ㉔ POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, STONE MATRIX ASPHALT, N80, 2"
- ㉕ POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, STONE MATRIX ASPHALT, N80, 2"
- ㉖ HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70, 1 1/2"
- ㉗ HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70, 2/4"
- ㉘ NOT USED
- ㉙ PROPOSED SHOULDER RUMBLE STRIP (STD. 642001-01)
- ㉚ HOT-MIX ASPHALT SHOULDER REMOVAL AND REPLACEMENT (SPECIAL)

**NOTES**

1. THE CONTRACTOR SHALL MAINTAIN THE EXISTING CROSS SLOPES.
2. THE EXISTING HMA IN THE FLAG OF THE CURB AND GUTTER SHALL BE REMOVED AND REPLACED AT NO ADDITIONAL COST. THESE COSTS SHALL BE INCLUDED IN THE UNIT PRICES FOR THE VARIOUS MILLING AND RESURFACING OPERATIONS MEASURED TO THE EDGE OF THE SHOULDER.
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4. THE CONTRACTOR SHALL PATCH FIRST BEFORE MILLING.

FILE NAME =	DESIGNED - AJP	REVISED -
\\ppln\ABC\C2_355.ml.typ.08.dgn	DRAWN - TMB	REVISED -
USER NAME = jmajewski	CHECKED - JMM	REVISED -
PLOT DATE = 11/13/2009	DATE - 10/16/09	REVISED -

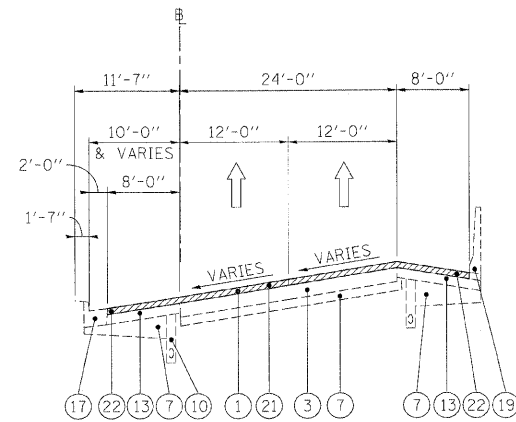
**benesch**

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**TYPICAL SECTIONS  
I-290 MAINLINE**

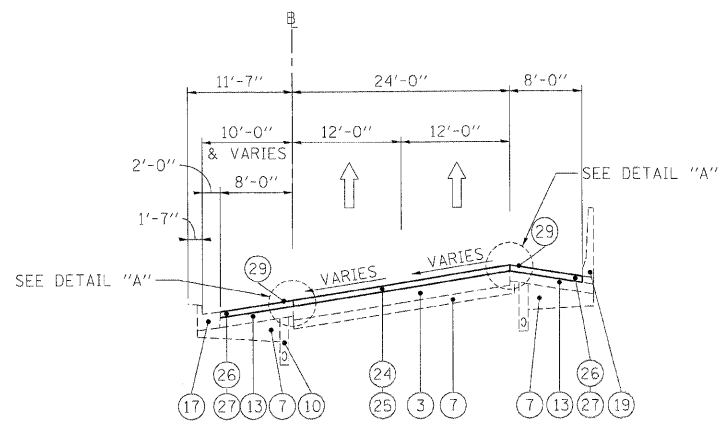
SCALE: N.T.S. SHEET NO. 4 OF 19 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	(3031.1, ETC., 3838RS-5	COOK	298	9
FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT			CONTRACT NO. 60G52	



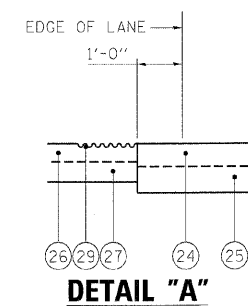
**EXISTING TYPICAL SECTION**

STA 501+90 TO STA 505+50 (EB FAI 290)



**PROPOSED TYPICAL SECTION**

STA 501+90 TO STA 505+50 (EB FAI 290)



**LEGEND**

- ① EXISTING HMA OVERLAY, VARIES
- ② EXISTING C.R.C. PAVEMENT, 12"
- ③ EXISTING P.C.C. PAVEMENT, 10"
- ④ EXISTING C.R.C. PAVEMENT, 9"
- ⑤ EXISTING C.R.C. PAVEMENT
- ⑥ EXISTING P.C.C. BASE COURSE
- ⑦ EXISTING STABILIZED SUB-BASE, 4"
- ⑧ EXISTING SUB-BASE GRANULAR MATERIAL, TYPE A
- ⑨ EXISTING PGE WRAPPED IN FABRIC (VARIOUS LOCATIONS)
- ⑩ EXISTING PIPE UNDERDRAIN
- ⑪ EXISTING P.C.C. SHOULDER
- ⑫ EXISTING STABILIZED MEDIAN SURFACE
- ⑬ EXISTING BITUMINOUS SHOULDER
- ⑭ EXISTING AGGREGATE SHOULDER
- ⑮ EXISTING AGGREGATE SHOULDER, TYPE B
- ⑯ EXISTING COMB. CONC. CURB & GUTTER, TYPE M-2.12
- ⑰ EXISTING COMB. CONC. CURB & GUTTER, TYPE M-6.24
- ⑱ EXISTING COMB. CONC. CURB & GUTTER, TYPE B-6.24
- ⑲ EXISTING P.C.C. BARRIER WALL
- ⑳ EXISTING STEEL PLATE BEAM GUARDRAIL
- ㉑ HOT-MIX ASPHALT SURFACE REMOVAL 4"
- ㉒ HOT-MIX ASPHALT SURFACE REMOVAL 3 3/4"
- ㉓ HOT-MIX ASPHALT SURFACE REMOVAL 3/4"
- ㉔ POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, STONE MATRIX ASPHALT, N80, 2"
- ㉕ POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, STONE MATRIX ASPHALT, N80, 2"
- ㉖ HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70, 1 1/2"
- ㉗ HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70, 2 1/4"
- ㉘ NOT USED
- ㉙ PROPOSED SHOULDER RUMBLE STRIP (STD. 642001-01)
- ㉚ HOT-MIX ASPHALT SHOULDER REMOVAL AND REPLACEMENT (SPECIAL)

**NOTES**

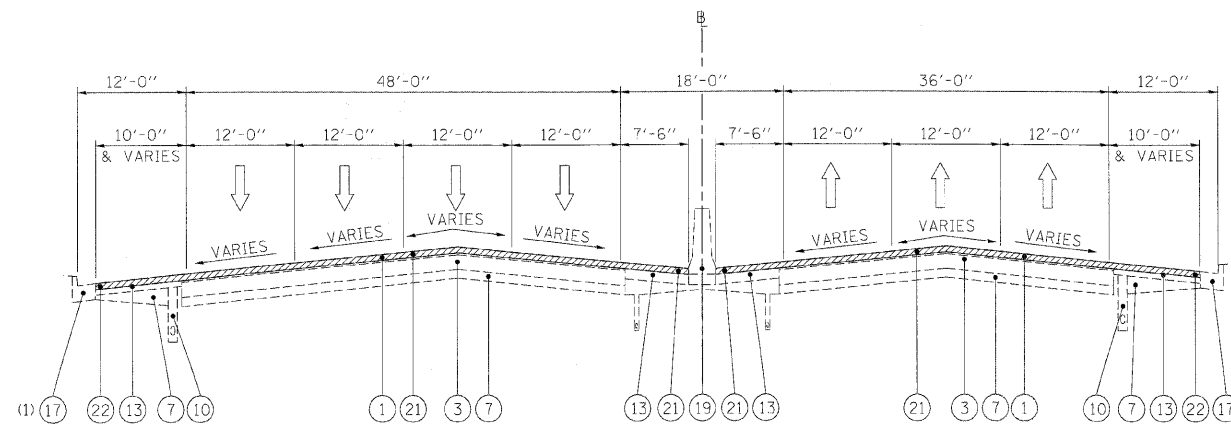
1. THE CONTRACTOR SHALL MAINTAIN THE EXISTING CROSS SLOPES.
2. THE EXISTING HMA IN THE FLAG OF THE CURB AND GUTTER SHALL BE REMOVED AND REPLACED AT NO ADDITIONAL COST. THESE COSTS SHALL BE INCLUDED IN THE UNIT PRICES FOR THE VARIOUS MILLING AND RESURFACING OPERATIONS MEASURED TO THE EDGE OF THE SHOULDER.
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4. THE CONTRACTOR SHALL PATCH FIRST BEFORE MILLING.

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USER NAME = jmajewski	CHECKED - JMM	REVISED -
PLOT DATE = 11/13/2009	DATE = 10/16/09	REVISED -

**benesch**

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

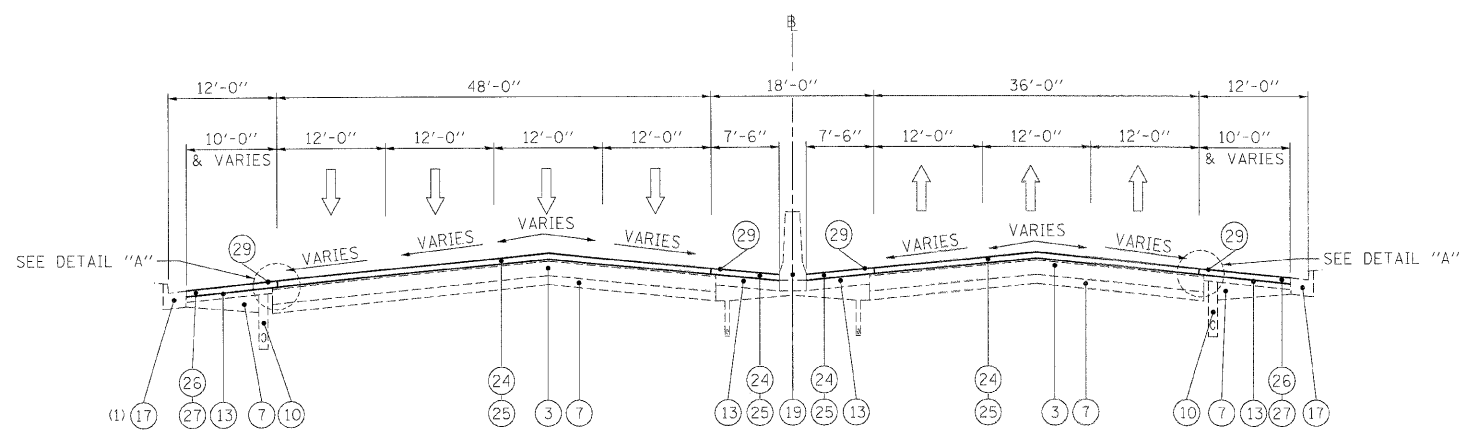
TYPICAL SECTIONS I-290 MAINLINE		F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		290	(3031.1, ETC., 3838)RS-5	COOK	298	10
SCALE: N.T.S.		SHEET NO. 5 OF 19 SHEETS		STA.	TO STA.	
		FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
				CONTRACT NO. 60G52		



**EXISTING TYPICAL SECTION**

(1) AGGREGATE SHOULDER, TYPE A: STA 532+60 TO STA 535+00  
STA 554+45 TO STA 558+50

STA 505+50 TO STA 535+00  
STA 554+45 TO STA 558+50



**PROPOSED TYPICAL SECTION**

(1) AGGREGATE SHOULDER, TYPE A: STA 532+60 TO STA 535+00  
STA 554+45 TO STA 558+50

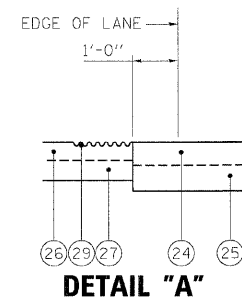
STA 505+50 TO STA 535+00  
STA 554+45 TO STA 558+50

**LEGEND**

- ① EXISTING HMA OVERLAY, VARIES
- ② EXISTING C.R.C. PAVEMENT, 12"
- ③ EXISTING P.C.C. PAVEMENT, 10"
- ④ EXISTING C.R.C. PAVEMENT, 9"
- ⑤ EXISTING C.R.C. PAVEMENT
- ⑥ EXISTING P.C.C. BASE COURSE
- ⑦ EXISTING STABILIZED SUB-BASE, 4"
- ⑧ EXISTING SUB-BASE GRANULAR MATERIAL, TYPE A
- ⑨ EXISTING PGE WRAPPED IN FABRIC (VARIOUS LOCATIONS)
- ⑩ EXISTING PIPE UNDERDRAIN
- ⑪ EXISTING P.C.C. SHOULDER
- ⑫ EXISTING STABILIZED MEDIAN SURFACE
- ⑬ EXISTING BITUMINOUS SHOULDER
- ⑭ EXISTING AGGREGATE SHOULDER
- ⑮ EXISTING AGGREGATE SHOULDER, TYPE B
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- ⑳ EXISTING STEEL PLATE BEAM GUARDRAIL
- ㉑ HOT-MIX ASPHALT SURFACE REMOVAL 4"
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- ㉓ HOT-MIX ASPHALT SURFACE REMOVAL 3 1/4"
- ㉔ POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, STONE MATRIX ASPHALT, N80, 2"
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- ㉖ HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70, 1 1/2"
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- ㉘ NOT USED
- ㉙ PROPOSED SHOULDER RUMBLE STRIP (STD. 642001-01)
- ㉚ HOT-MIX ASPHALT SHOULDER REMOVAL AND REPLACEMENT (SPECIAL)

**NOTES**

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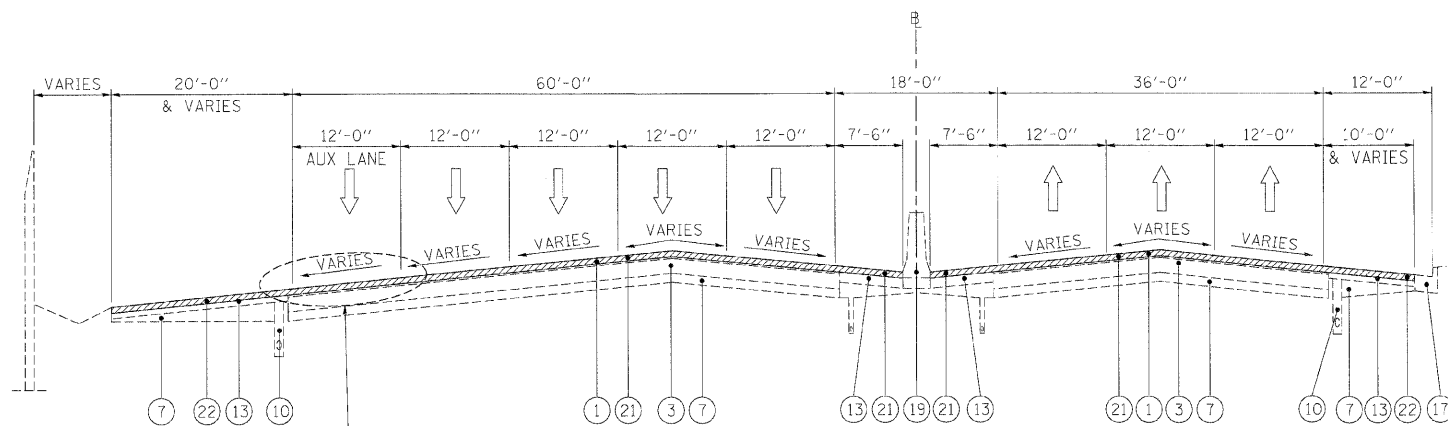


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PLT DATF = 11/13/2009	DATE - 10/16/09	REVISED -

**benesch**

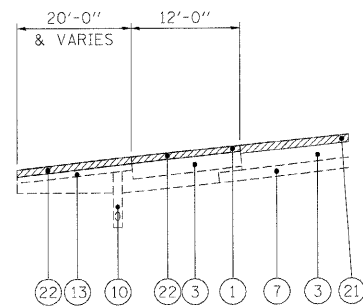
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

TYPICAL SECTIONS I-290 MAINLINE		F.A.I. SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
SCALE: N.T.S.		290 (3031.1, ETC., 3838RS-5)	COOK	298	11
SHEET NO. 6 OF 19 SHEETS		CONTRACT NO. 60G52		ILLINOIS FED. AID PROJECT	

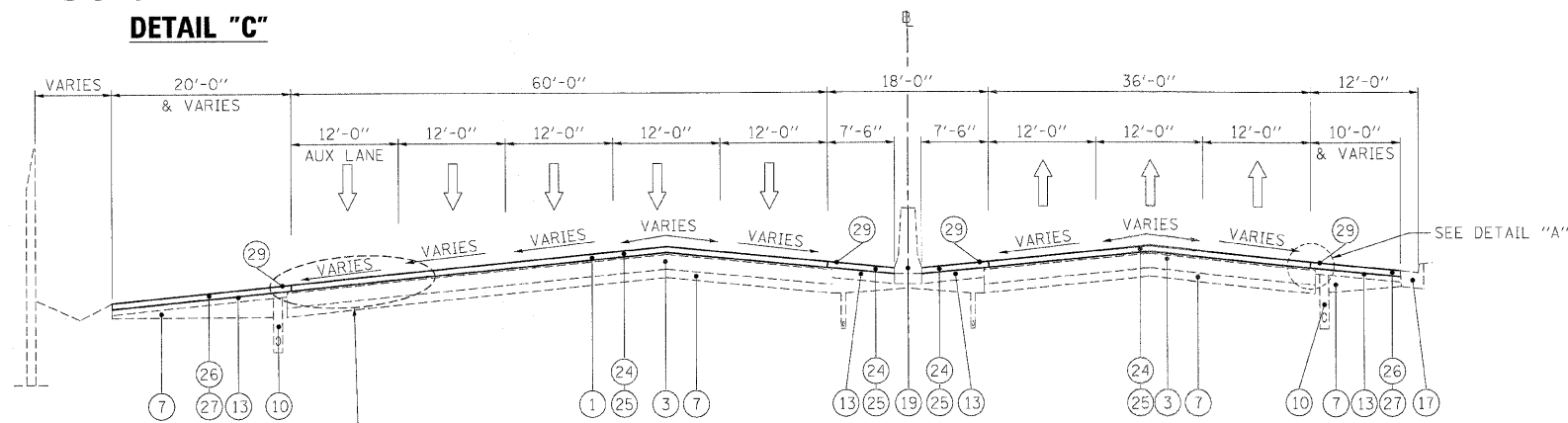


**EXISTING TYPICAL SECTION**

STA 535+00 TO STA 554+45

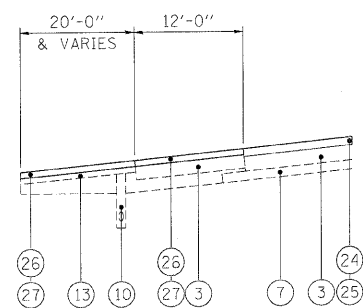


**DETAIL "C"**

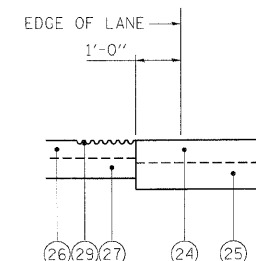


**PROPOSED TYPICAL SECTION**

STA 535+00 TO STA 554+45



**DETAIL "B"**



**DETAIL "A"**

**LEGEND**

- ① EXISTING HMA OVERLAY, VARIES\*
- ② EXISTING C.R.C. PAVEMENT, 12"
- ③ EXISTING P.C.C. PAVEMENT, 10"
- ④ EXISTING C.R.C. PAVEMENT, 9"
- ⑤ EXISTING C.R.C. PAVEMENT
- ⑥ EXISTING P.C.C. BASE COURSE
- ⑦ EXISTING STABILIZED SUB-BASE, 4"
- ⑧ EXISTING SUB-BASE GRANULAR MATERIAL, TYPE A
- ⑨ EXISTING PGE WRAPPED IN FABRIC (VARIOUS LOCATIONS)
- ⑩ EXISTING PIPE UNDERDRAIN
- ⑪ EXISTING P.C.C. SHOULDER
- ⑫ EXISTING STABILIZED MEDIAN SURFACE
- ⑬ EXISTING BITUMINOUS SHOULDER
- ⑭ EXISTING AGGREGATE SHOULDER
- ⑮ EXISTING AGGREGATE SHOULDER, TYPE B
- ⑯ EXISTING COMB. CONC. CURB & GUTTER, TYPE M-2.12
- ⑰ EXISTING COMB. CONC. CURB & GUTTER, TYPE M-6.24
- ⑱ EXISTING COMB. CONC. CURB & GUTTER, TYPE B-6.24
- ⑲ EXISTING P.C.C. BARRIER WALL
- ⑳ EXISTING STEEL PLATE BEAM GUARDRAIL
- ㉑ HOT-MIX ASPHALT SURFACE REMOVAL 4"
- ㉒ HOT-MIX ASPHALT SURFACE REMOVAL 3 3/4"
- ㉓ HOT-MIX ASPHALT SURFACE REMOVAL 3 1/4"
- ㉔ POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, STONE MATRIX ASPHALT, N80, 2"
- ㉕ POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, STONE MATRIX ASPHALT, N80, 2"
- ㉖ HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70, 1 1/2"
- ㉗ HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70, 2 1/4"
- ㉘ NOT USED
- ㉙ PROPOSED SHOULDER RUMBLE STRIP (STD. 642001-01)
- ㉚ HOT-MIX ASPHALT SHOULDER REMOVAL AND REPLACEMENT (SPECIAL)

**NOTES**

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4. THE CONTRACTOR SHALL PATCH FIRST BEFORE MILLING.

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PLOT DATE = 1/13/2009	DATE - 10/16/09	REVISED -

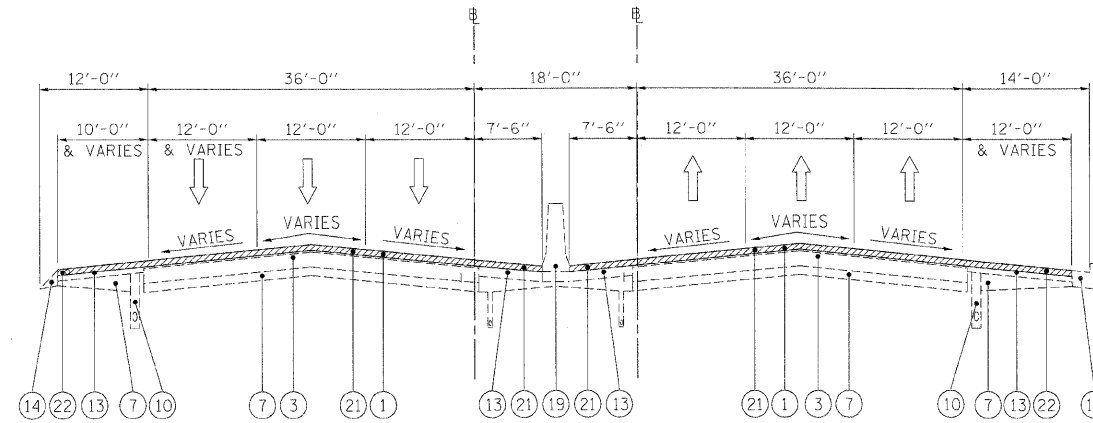
**benesch**

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**TYPICAL SECTIONS  
I-290 MAINLINE**

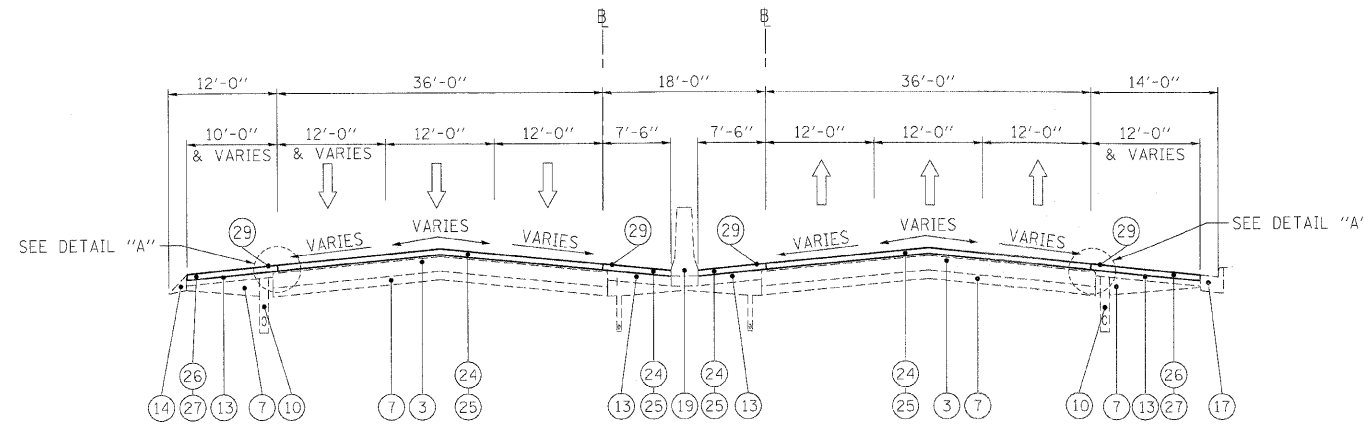
SCALE: N.T.S. SHEET NO. 7 OF 19 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	(3031.1, ETC., 383BIRS-5	COOK	298	12
FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT			CONTRACT NO. 60G52	



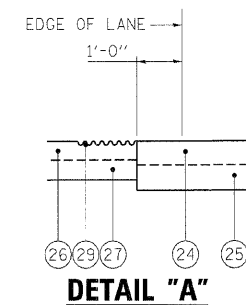
**EXISTING TYPICAL SECTION**

STA 558+50 TO STA 577+00  
 STA 601+15 TO STA 626+50  
 STA 633+60 TO STA 699+30 (WB FAI 290)  
 STA 636+60 TO STA 699+30 (EB FAI 290)  
 B LOCATED ON CENTER OF MEDIAN STA 558+50 TO STA 608+04.76



**PROPOSED TYPICAL SECTION**

STA 558+50 TO STA 577+00  
 STA 601+15 TO STA 626+50  
 STA 633+60 TO STA 699+30 (WB FAI 290)  
 STA 636+60 TO STA 699+30 (EB FAI 290)  
 B LOCATED ON CENTER OF MEDIAN STA 558+50 TO STA 608+04.76



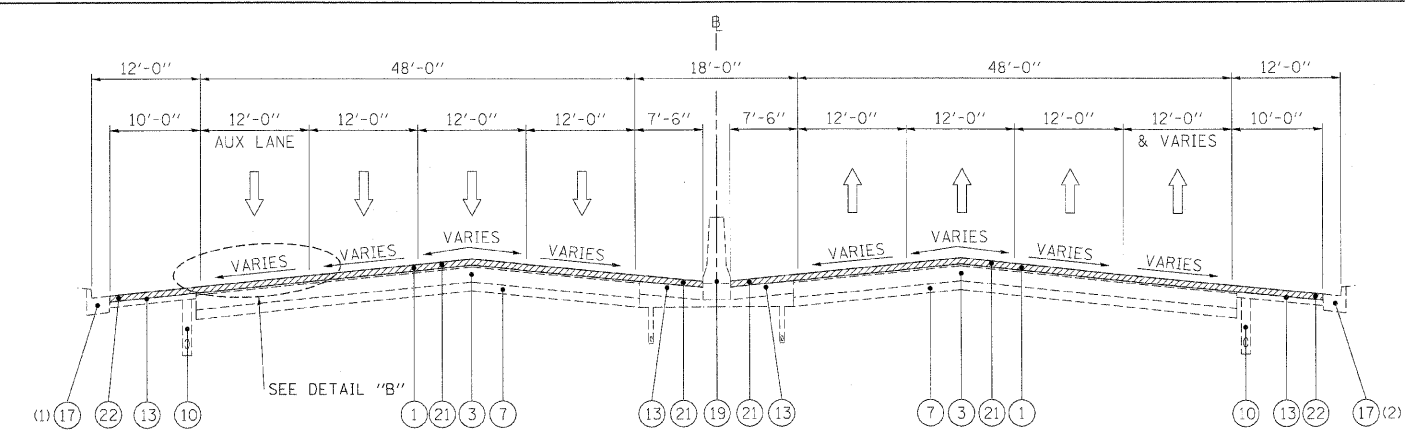
**LEGEND**

- ① EXISTING HMA OVERLAY, VARIES
- ② EXISTING C.R.C. PAVEMENT, 12"
- ③ EXISTING P.C.C. PAVEMENT, 10"
- ④ EXISTING C.R.C. PAVEMENT, 9"
- ⑤ EXISTING C.R.C. PAVEMENT
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- ⑦ EXISTING STABILIZED SUB-BASE, 4"
- ⑧ EXISTING SUB-BASE GRANULAR MATERIAL, TYPE A
- ⑨ EXISTING PGE WRAPPED IN FABRIC (VARIOUS LOCATIONS)
- ⑩ EXISTING PIPE UNDERDRAIN
- ⑪ EXISTING P.C.C. SHOULDER
- ⑫ EXISTING STABILIZED MEDIAN SURFACE
- ⑬ EXISTING BITUMINOUS SHOULDER
- ⑭ EXISTING AGGREGATE SHOULDER
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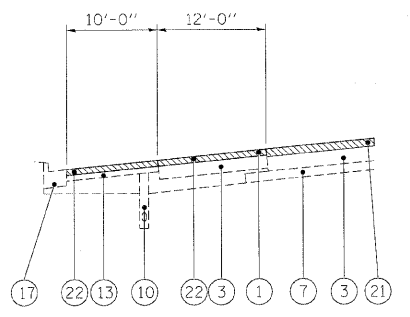
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USER NAME : jmejewski	DRAWN - TMB	REVISED -			SCALE: N.T.S.	SHEET NO. 8 OF 19 SHEETS	STA.	TO STA.	CONTRACT NO. 60G52				
PLOT DATE : 11/13/2009	CHECKED - JMM	REVISED -											
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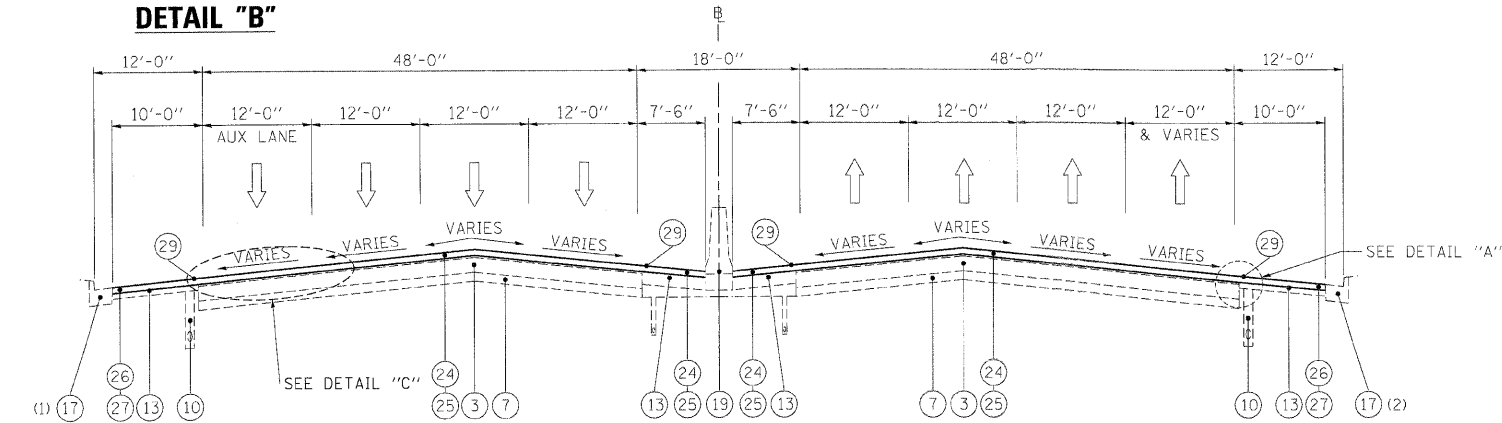
**EXISTING TYPICAL SECTION**  
 STA 577+00 TO STA 601+15

(1) CONCRETE CURB: STA 594+68 TO STA 598+90  
 CONCRETE BARRIER WALL: STA 577+00 TO STA 594+68

(2) CONCRETE CURB: STA 598+05 TO STA 601+15  
 CONCRETE BARRIER WALL: STA 593+40 TO STA 598+05  
 EXISTING GROUND: STA 591+45 TO STA 593+40



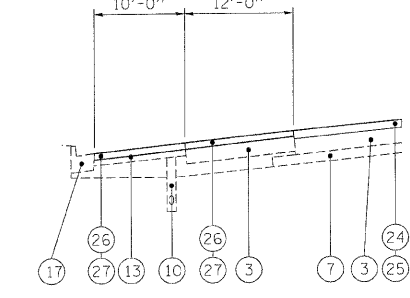
**DETAIL "B"**



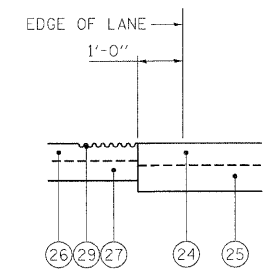
**PROPOSED TYPICAL SECTION**  
 STA 577+00 TO STA 601+15

(1) CONCRETE CURB: STA 594+68 TO STA 598+90  
 CONCRETE BARRIER WALL: STA 577+00 TO STA 594+68

(2) CONCRETE CURB: STA 598+05 TO STA 601+15  
 CONCRETE BARRIER WALL: STA 593+40 TO STA 598+05  
 EXISTING GROUND: STA 591+45 TO STA 593+40



**DETAIL "C"**



**DETAIL "A"**

**LEGEND**

- ① EXISTING HMA OVERLAY, VARIES\*
- ② EXISTING C.R.C. PAVEMENT, 12"
- ③ EXISTING P.C.C. PAVEMENT, 10"
- ④ EXISTING C.R.C. PAVEMENT, 9"
- ⑤ EXISTING C.R.C. PAVEMENT
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- ⑱ EXISTING COMB. CONC. CURB & GUTTER, TYPE B-6.24
- ⑲ EXISTING P.C.C. BARRIER WALL
- ⑳ EXISTING STEEL PLATE BEAM GUARDRAIL
- ㉑ HOT-MIX ASPHALT SURFACE REMOVAL 4"
- ㉒ HOT-MIX ASPHALT SURFACE REMOVAL 3 3/4"
- ㉓ HOT-MIX ASPHALT SURFACE REMOVAL 3/4"
- ㉔ POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, STONE MATRIX ASPHALT, N80, 2"
- ㉕ POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, STONE MATRIX ASPHALT, N80, 2"
- ㉖ HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70, 1 1/2"
- ㉗ HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70, 2 1/4"
- ㉘ NOT USED
- ㉙ PROPOSED SHOULDER RUMBLE STRIP (STD. 642001-01)
- ㉚ HOT-MIX ASPHALT SHOULDER REMOVAL AND REPLACEMENT (SPECIAL)

**NOTES**

1. THE CONTRACTOR SHALL MAINTAIN THE EXISTING CROSS SLOPES.
2. THE EXISTING HMA IN THE FLAG OF THE CURB AND GUTTER SHALL BE REMOVED AND REPLACED AT NO ADDITIONAL COST. THESE COSTS SHALL BE INCLUDED IN THE UNIT PRICES FOR THE VARIOUS MILLING AND RESURFACING OPERATIONS MEASURED TO THE EDGE OF THE SHOULDER.
3. THE COST OF HAND REMOVAL OF HMA SURFACE AROUND CASTINGS SHALL BE INCLUDED IN THE COST OF HMA SURFACE REMOVAL OF THE THICKNESS SPECIFIED.
4. THE CONTRACTOR SHALL PATCH FIRST BEFORE MILLING.

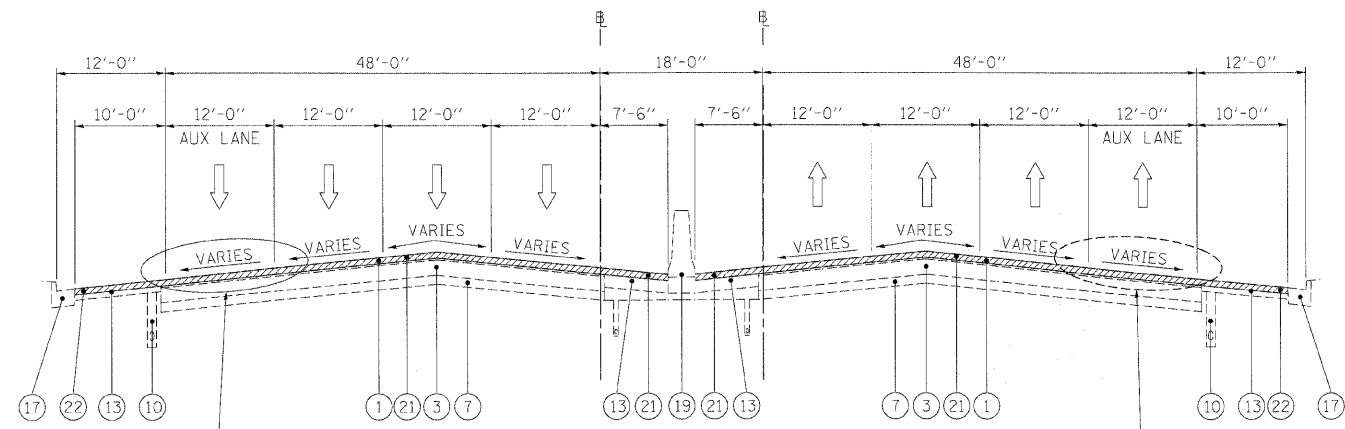
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PLOT DATE = 11/13/2009	DATE - 10/16/09	REVISED -

**benesch**

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

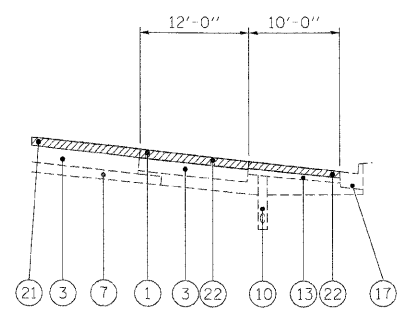
<b>TYPICAL SECTIONS I-290 MAINLINE</b>			
SCALE: N.T.S.	SHEET NO. 9 OF 19 SHEETS	STA.	TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	13031.1, ETC., 383BIRS-5	COOK	298	14
CONTRACT NO. 60652				
FED. ROAD DIST. NO.   ILLINOIS FED. AID PROJECT				

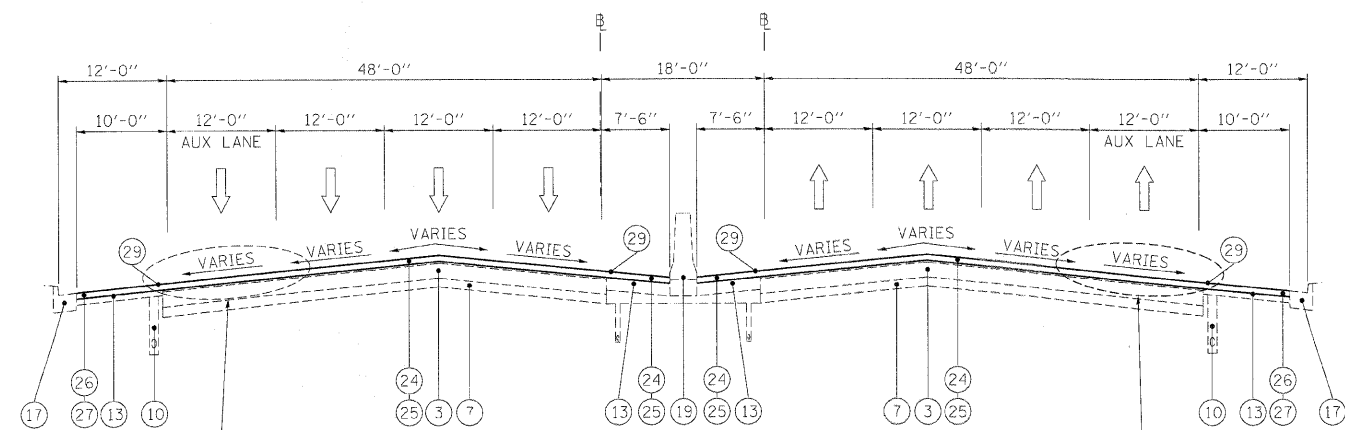


**EXISTING TYPICAL SECTION**

STA 626+50 TO STA 633+60 (WB FAI 290)  
 STA 626+50 TO STA 636+60 (EB FAI 290)

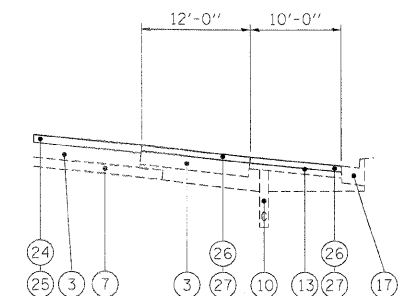


**DETAIL "B"**



**PROPOSED TYPICAL SECTION**

STA 626+50 TO STA 633+60 (WB FAI 290)  
 STA 626+50 TO STA 636+60 (EB FAI 290)



**DETAIL "C"**

**LEGEND**

- ① EXISTING HMA OVERLAY, VARIES
- ② EXISTING C.R.C. PAVEMENT, 12"
- ③ EXISTING P.C.C. PAVEMENT, 10"
- ④ EXISTING C.R.C. PAVEMENT, 9"
- ⑤ EXISTING C.R.C. PAVEMENT
- ⑥ EXISTING P.C.C. BASE COURSE
- ⑦ EXISTING STABILIZED SUB-BASE, 4"
- ⑧ EXISTING SUB-BASE GRANULAR MATERIAL, TYPE A
- ⑨ EXISTING PGE WRAPPED IN FABRIC (VARIOUS LOCATIONS)
- ⑩ EXISTING PIPE UNDERDRAIN
- ⑪ EXISTING P.C.C. SHOULDER
- ⑫ EXISTING STABILIZED MEDIAN SURFACE
- ⑬ EXISTING BITUMINOUS SHOULDER
- ⑭ EXISTING AGGREGATE SHOULDER
- ⑮ EXISTING AGGREGATE SHOULDER, TYPE B
- ⑯ EXISTING COMB. CONC. CURB & GUTTER, TYPE M-2.12
- ⑰ EXISTING COMB. CONC. CURB & GUTTER, TYPE M-6.24
- ⑱ EXISTING COMB. CONC. CURB & GUTTER, TYPE B-6.24
- ⑲ EXISTING P.C.C. BARRIER WALL
- ⑳ EXISTING STEEL PLATE BEAM GUARDRAIL
- ㉑ HOT-MIX ASPHALT SURFACE REMOVAL 4"
- ㉒ HOT-MIX ASPHALT SURFACE REMOVAL 3 3/4"
- ㉓ HOT-MIX ASPHALT SURFACE REMOVAL 3 1/4"
- ㉔ POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, STONE MATRIX ASPHALT, N80, 2"
- ㉕ POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, STONE MATRIX ASPHALT, N80, 2"
- ㉖ HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70, 1 1/2"
- ㉗ HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70, 2 1/4"
- ㉘ NOT USED
- ㉙ PROPOSED SHOULDER RUMBLE STRIP (STD. 642001-01)
- ㉚ HOT-MIX ASPHALT SHOULDER REMOVAL AND REPLACEMENT (SPECIAL)

**NOTES**

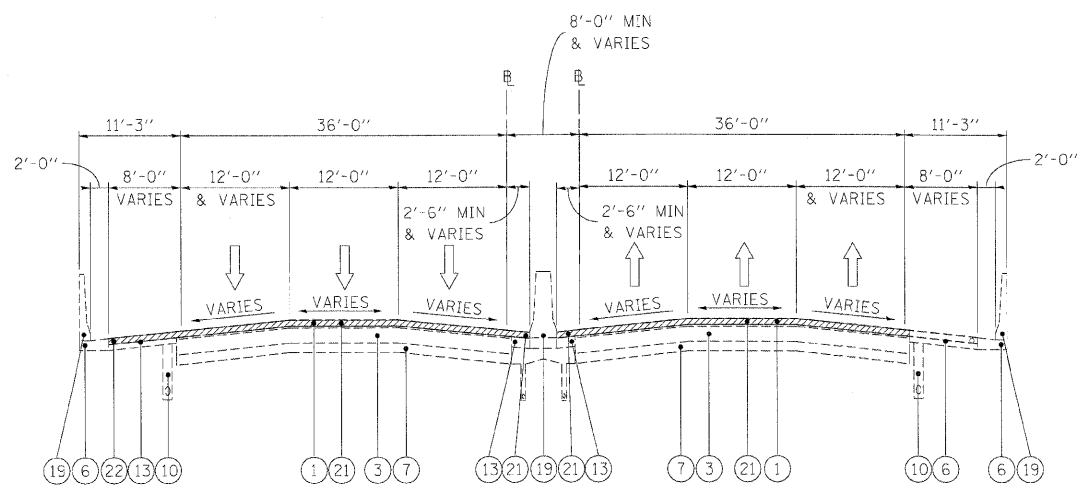
1. THE CONTRACTOR SHALL MAINTAIN THE EXISTING CROSS SLOPES.
2. THE EXISTING HMA IN THE FLAG OF THE CURB AND GUTTER SHALL BE REMOVED AND REPLACED AT NO ADDITIONAL COST. THESE COSTS SHALL BE INCLUDED IN THE UNIT PRICES FOR THE VARIOUS MILLING AND RESURFACING OPERATIONS MEASURED TO THE EDGE OF THE SHOULDER.
3. THE COST OF HAND REMOVAL OF HMA SURFACE AROUND CASTINGS SHALL BE INCLUDED IN THE COST OF HMA SURFACE REMOVAL OF THE THICKNESS SPECIFIED.
4. THE CONTRACTOR SHALL PATCH FIRST BEFORE MILLING.

FILE NAME =	DESIGNED - AJP	REVISED -
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PLOT DATE = 11/13/2009	DATE - 10/16/09	REVISED -

**benesch**

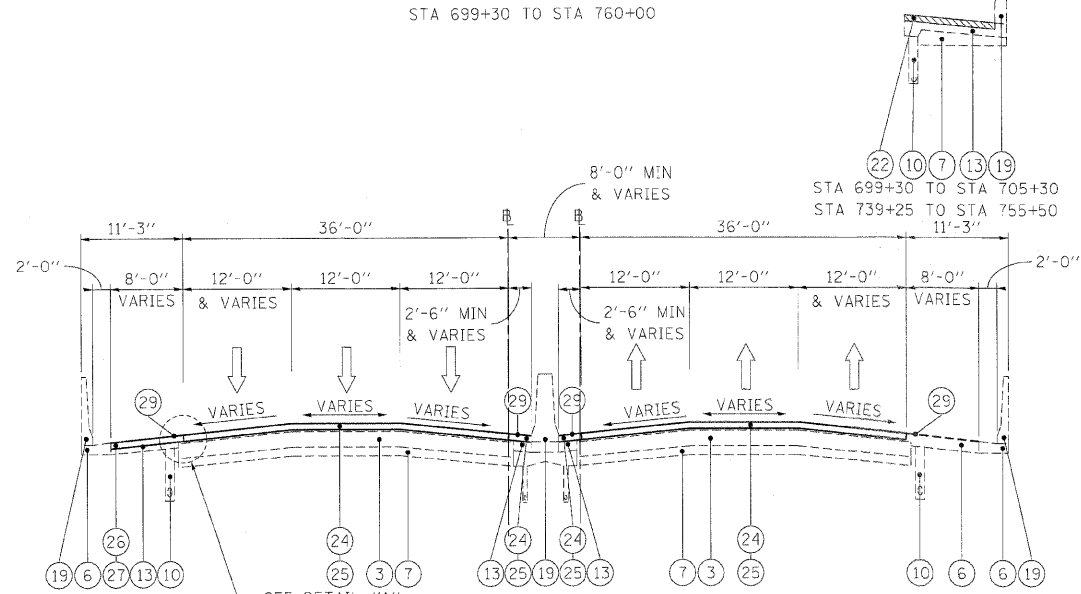
**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

<b>TYPICAL SECTIONS I-290 MAINLINE</b>		F.A.I. SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		290 (3031.1, ETC., 3838RS-5)	COOK	298	15
SCALE: N.T.S. SHEET NO. 10 OF 19 SHEETS STA. TO STA.		CONTRACT NO. 60G52			
		FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT			



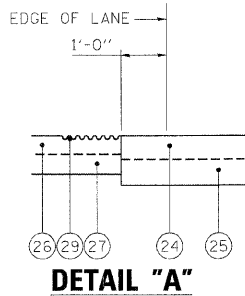
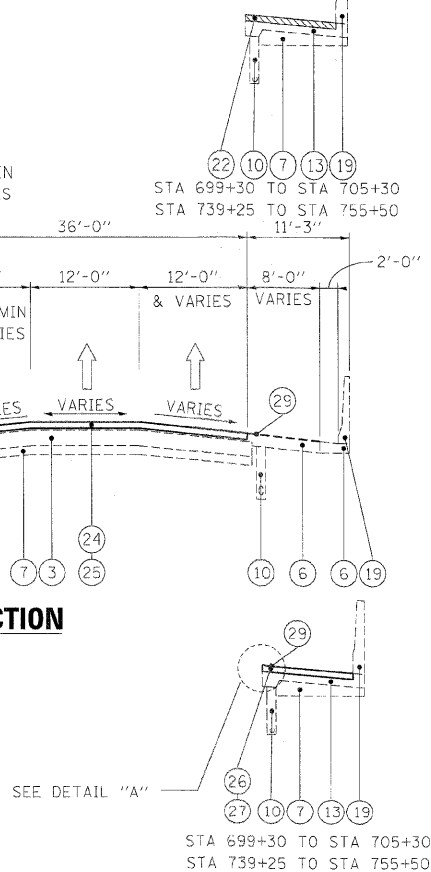
**EXISTING TYPICAL SECTION**

STA 699+30 TO STA 760+00



**PROPOSED TYPICAL SECTION**

STA 699+30 TO STA 760+00



**LEGEND**

- ① EXISTING HMA OVERLAY, VARIES\*
- ② EXISTING C.R.C. PAVEMENT, 12"
- ③ EXISTING P.C.C. PAVEMENT, 10"
- ④ EXISTING C.R.C. PAVEMENT, 9"
- ⑤ EXISTING C.R.C. PAVEMENT
- ⑥ EXISTING P.C.C. BASE COURSE
- ⑦ EXISTING STABILIZED SUB-BASE, 4"
- ⑧ EXISTING SUB-BASE GRANULAR MATERIAL, TYPE A
- ⑨ EXISTING PGE WRAPPED IN FABRIC (VARIOUS LOCATIONS)
- ⑩ EXISTING PIPE UNDERDRAIN
- ⑪ EXISTING P.C.C. SHOULDER
- ⑫ EXISTING STABILIZED MEDIAN SURFACE
- ⑬ EXISTING BITUMINOUS SHOULDER
- ⑭ EXISTING AGGREGATE SHOULDER
- ⑮ EXISTING AGGREGATE SHOULDER, TYPE B
- ⑯ EXISTING COMB. CONC. CURB & GUTTER, TYPE M-2.12
- ⑰ EXISTING COMB. CONC. CURB & GUTTER, TYPE M-6.24
- ⑱ EXISTING COMB. CONC. CURB & GUTTER, TYPE B-6.24
- ⑲ EXISTING P.C.C. BARRIER WALL
- ⑳ EXISTING STEEL PLATE BEAM GUARDRAIL
- ㉑ HOT-MIX ASPHALT SURFACE REMOVAL 4"
- ㉒ HOT-MIX ASPHALT SURFACE REMOVAL 3 3/4"
- ㉓ HOT-MIX ASPHALT SURFACE REMOVAL 3 1/4"
- ㉔ POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, STONE MATRIX ASPHALT, N80, 2"
- ㉕ POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, STONE MATRIX ASPHALT, N80, 2"
- ㉖ HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70, 1 1/2"
- ㉗ HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70, 2 1/4"
- ㉘ NOT USED
- ㉙ PROPOSED SHOULDER RUMBLE STRIP (STD. 642001-01)
- ㉚ HOT-MIX ASPHALT SHOULDER REMOVAL AND REPLACEMENT (SPECIAL)

**NOTES**

1. THE CONTRACTOR SHALL MAINTAIN THE EXISTING CROSS SLOPES. THE EXISTING HMA IN THE FLAG OF THE CURB AND GUTTER SHALL BE REMOVED AND REPLACED AT NO ADDITIONAL COST. THESE COSTS SHALL BE INCLUDED IN THE UNIT PRICES FOR THE VARIOUS MILLING AND RESURFACING OPERATIONS MEASURED TO THE EDGE OF THE SHOULDER.
2. THE COST OF HAND REMOVAL OF HMA SURFACE AROUND CASTINGS SHALL BE INCLUDED IN THE COST OF HMA SURFACE REMOVAL OF THE THICKNESS SPECIFIED.
3. THE CONTRACTOR SHALL PATCH FIRST BEFORE MILLING.

FILE NAME =	DESIGNED - AJP	REVISED -
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USER NAME = jmajewski	CHECKED - JMM	REVISED -
PLOT DATE = 11/13/2009	DATE - 10/16/09	REVISED -

**benesch**

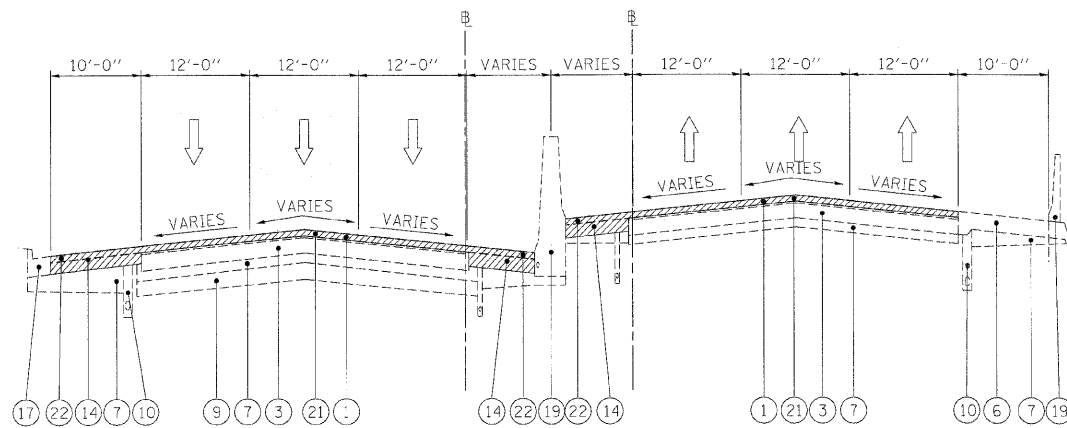
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**TYPICAL SECTIONS  
I-290 MAINLINE**

SCALE: N.T.S. SHEET NO. 11 OF 19 SHEETS STA. TO STA.

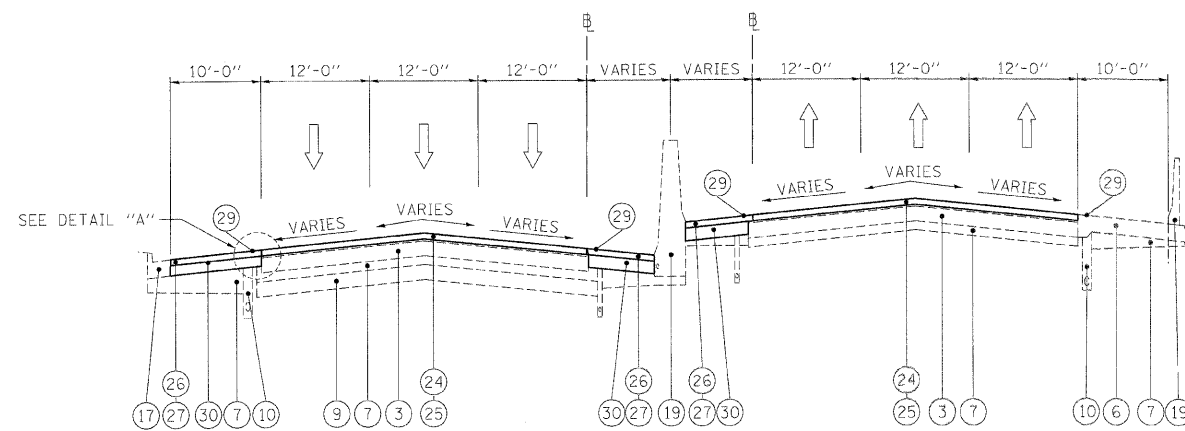
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	(3031.1, ETC., 3838)RS-5	COOK	298	16
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 60G52	





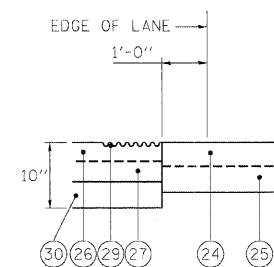
**EXISTING TYPICAL SECTION**

STA 806+00 TO STA 810+00



**PROPOSED TYPICAL SECTION**

STA 806+00 TO STA 810+00



**DETAIL "A"**

**LEGEND**

- ① EXISTING HMA OVERLAY, VARIES\*
- ② EXISTING C.R.C. PAVEMENT, 12"
- ③ EXISTING P.C.C. PAVEMENT, 10"
- ④ EXISTING C.R.C. PAVEMENT, 9"
- ⑤ EXISTING C.R.C. PAVEMENT
- ⑥ EXISTING P.C.C. BASE COURSE
- ⑦ EXISTING STABILIZED SUB-BASE, 4"
- ⑧ EXISTING SUB-BASE GRANULAR MATERIAL, TYPE A
- ⑨ EXISTING PGE WRAPPED IN FABRIC (VARIOUS LOCATIONS)
- ⑩ EXISTING PIPE UNDERDRAIN
- ⑪ EXISTING P.C.C. SHOULDER
- ⑫ EXISTING STABILIZED MEDIAN SURFACE
- ⑬ EXISTING BITUMINOUS SHOULDER
- ⑭ EXISTING AGGREGATE SHOULDER
- ⑮ EXISTING AGGREGATE SHOULDER, TYPE B
- ⑯ EXISTING COMB. CONC. CURB & GUTTER, TYPE M-2.12
- ⑰ EXISTING COMB. CONC. CURB & GUTTER, TYPE M-6.24
- ⑱ EXISTING COMB. CONC. CURB & GUTTER, TYPE B-6.24
- ⑲ EXISTING P.C.C. BARRIER WALL
- ⑳ EXISTING STEEL PLATE BEAM GUARDRAIL
- ㉑ HOT-MIX ASPHALT SURFACE REMOVAL 4"
- ㉒ HOT-MIX ASPHALT SURFACE REMOVAL 3 3/4"
- ㉓ HOT-MIX ASPHALT SURFACE REMOVAL 3 1/4"
- ㉔ POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, STONE MATRIX ASPHALT, N80, 2"
- ㉕ POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, STONE MATRIX ASPHALT, N80, 2"
- ㉖ HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70, 1 1/2"
- ㉗ HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70, 2 1/4"
- ㉘ NOT USED
- ㉙ PROPOSED SHOULDER RUMBLE STRIP (STD. 642001-01)
- ㉚ HOT-MIX ASPHALT SHOULDER REMOVAL AND REPLACEMENT (SPECIAL) (STA 771+00 TO STA 856+00)

**NOTES**

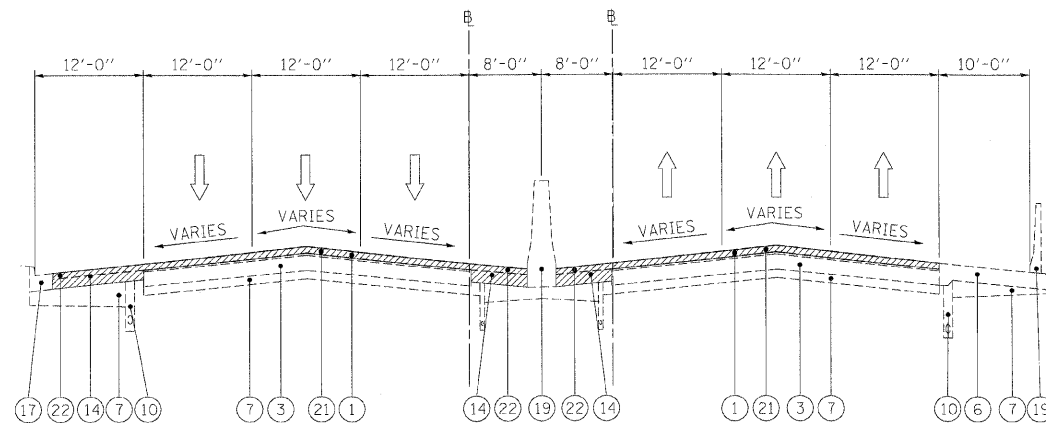
1. THE CONTRACTOR SHALL MAINTAIN THE EXISTING CROSS SLOPES.
2. THE EXISTING HMA IN THE FLAG OF THE CURB AND GUTTER SHALL BE REMOVED AND REPLACED AT NO ADDITIONAL COST. THESE COSTS SHALL BE INCLUDED IN THE UNIT PRICES FOR THE VARIOUS MILLING AND RESURFACING OPERATIONS MEASURED TO THE EDGE OF THE SHOULDER.
3. THE COST OF HAND REMOVAL OF HMA SURFACE AROUND CASTINGS SHALL BE INCLUDED IN THE COST OF HMA SURFACE REMOVAL OF THE THICKNESS SPECIFIED.
4. THE CONTRACTOR SHALL PATCH FIRST BEFORE MILLING.

FILE NAME =	DESIGNED - AJP	REVISED -
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PLDT DATE = 11/13/2009	DATE - 10/16/09	REVISED -

**benesch**

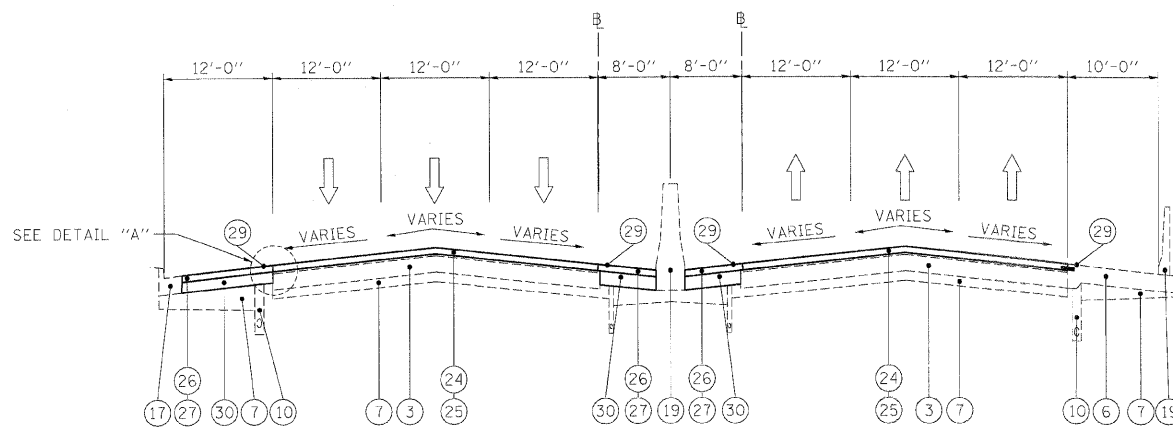
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>TYPICAL SECTIONS I-290 MAINLINE</b>		F.A.I. SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
SCALE: N.T.S.		290 (3031.1, ETC., 3838RS-5)	COOK	298	17
SHEET NO. 12 OF 19 SHEETS		CONTRACT NO. 60G52		ILLINOIS FED. AID PROJECT	



**EXISTING TYPICAL SECTION**

STA 771+00 TO STA 772+50  
 STA 789+15 TO STA 791+00  
 STA 810+00 TO STA 817+00  
 STA 852+90 TO STA 855+20



**PROPOSED TYPICAL SECTION**

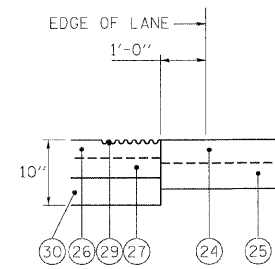
STA 771+00 TO STA 772+50  
 STA 789+15 TO STA 791+00  
 STA 810+00 TO STA 817+00  
 STA 852+90 TO STA 855+20

**LEGEND**

- ① EXISTING HMA OVERLAY, VARIES
- ② EXISTING C.R.C. PAVEMENT, 12"
- ③ EXISTING P.C.C. PAVEMENT, 10"
- ④ EXISTING C.R.C. PAVEMENT, 9"
- ⑤ EXISTING C.R.C. PAVEMENT
- ⑥ EXISTING P.C.C. BASE COURSE
- ⑦ EXISTING STABILIZED SUB-BASE, 4"
- ⑧ EXISTING SUB-BASE GRANULAR MATERIAL, TYPE A
- ⑨ EXISTING PGE WRAPPED IN FABRIC (VARIOUS LOCATIONS)
- ⑩ EXISTING PIPE UNDERDRAIN
- ⑪ EXISTING P.C.C. SHOULDER
- ⑫ EXISTING STABILIZED MEDIAN SURFACE
- ⑬ EXISTING BITUMINOUS SHOULDER
- ⑭ EXISTING AGGREGATE SHOULDER
- ⑮ EXISTING AGGREGATE SHOULDER, TYPE B
- ⑯ EXISTING COMB. CONC. CURB & GUTTER, TYPE M-2.12
- ⑰ EXISTING COMB. CONC. CURB & GUTTER, TYPE M-6.24
- ⑱ EXISTING COMB. CONC. CURB & GUTTER, TYPE B-6.24
- ⑲ EXISTING P.C.C. BARRIER WALL
- ⑳ EXISTING STEEL PLATE BEAM GUARDRAIL
- ㉑ HOT-MIX ASPHALT SURFACE REMOVAL 4"
- ㉒ HOT-MIX ASPHALT SURFACE REMOVAL 3 3/4"
- ㉓ HOT-MIX ASPHALT SURFACE REMOVAL 3 1/4"
- ㉔ POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, STONE MATRIX ASPHALT, N80, 2"
- ㉕ POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, STONE MATRIX ASPHALT, N80, 2"
- ㉖ HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70, 1 1/2"
- ㉗ HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70, 2 1/4"
- ㉘ NOT USED
- ㉙ PROPOSED SHOULDER RUMBLE STRIP (STD. 642001-01)
- ㉚ HOT-MIX ASPHALT SHOULDER REMOVAL AND REPLACEMENT (SPECIAL)

**NOTES**

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2. THE EXISTING HMA IN THE FLAG OF THE CURB AND GUTTER SHALL BE REMOVED AND REPLACED AT NO ADDITIONAL COST. THESE COSTS SHALL BE INCLUDED IN THE UNIT PRICES FOR THE VARIOUS MILLING AND RESURFACING OPERATIONS MEASURED TO THE EDGE OF THE SHOULDER.
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4. THE CONTRACTOR SHALL PATCH FIRST BEFORE MILLING.



**DETAIL "A"**

FILE NAME =	DESIGNED - AJP	REVISED -
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USER NAME = jmajewski	CHECKED - JMM	REVISED -
PLDT DATE = 11/13/2009	DATE = 10/16/09	REVISED -

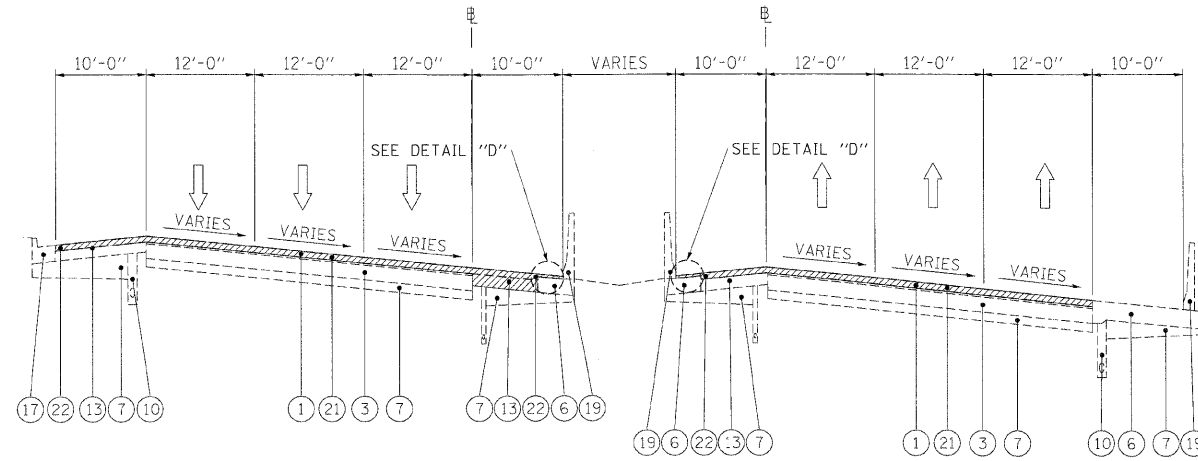
**benesch**

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**TYPICAL SECTIONS  
 I-290 MAINLINE**

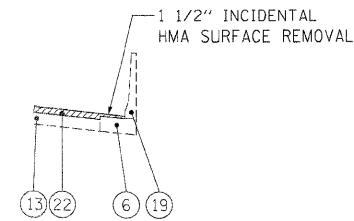
SCALE: N.T.S. SHEET NO. 13 OF 19 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	(3031.1, ETC., 3838IRS-5	COOK	298	18
FED. ROAD DIST. NO.   ILLINOIS   FED. AID PROJECT			CONTRACT NO. 60G52	

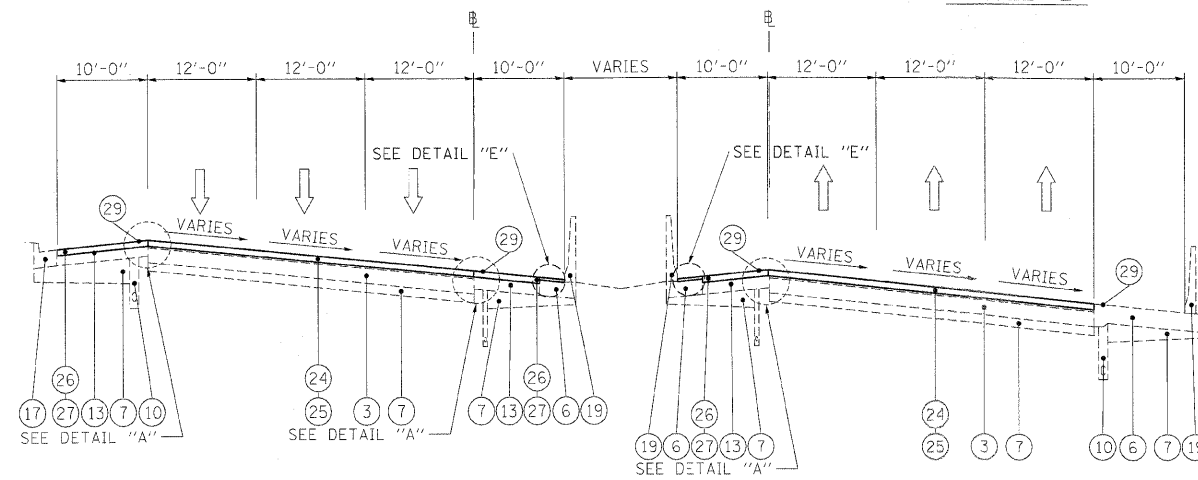


**EXISTING TYPICAL SECTION**

STA 760+00 TO STA 771+00

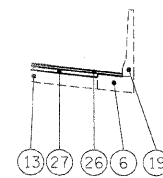


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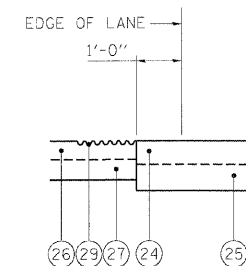


**PROPOSED TYPICAL SECTION**

STA 760+00 TO STA 771+00



**DETAIL "E"**



**DETAIL "A"**

**LEGEND**

- ① EXISTING HMA OVERLAY, VARIES
- ② EXISTING C.R.C. PAVEMENT, 12"
- ③ EXISTING P.C.C. PAVEMENT, 10"
- ④ EXISTING C.R.C. PAVEMENT, 9"
- ⑤ EXISTING C.R.C. PAVEMENT
- ⑥ EXISTING P.C.C. BASE COURSE
- ⑦ EXISTING STABILIZED SUB-BASE, 4"
- ⑧ EXISTING SUB-BASE GRANULAR MATERIAL, TYPE A
- ⑨ EXISTING PGE WRAPPED IN FABRIC (VARIOUS LOCATIONS)
- ⑩ EXISTING PIPE UNDERDRAIN
- ⑪ EXISTING P.C.C. SHOULDER
- ⑫ EXISTING STABILIZED MEDIAN SURFACE
- ⑬ EXISTING BITUMINOUS SHOULDER
- ⑭ EXISTING AGGREGATE SHOULDER
- ⑮ EXISTING AGGREGATE SHOULDER, TYPE B
- ⑯ EXISTING COMB. CONC. CURB & GUTTER, TYPE M-2.12
- ⑰ EXISTING COMB. CONC. CURB & GUTTER, TYPE M-6.24
- ⑱ EXISTING COMB. CONC. CURB & GUTTER, TYPE B-6.24
- ⑲ EXISTING P.C.C. BARRIER WALL
- ⑳ EXISTING STEEL PLATE BEAM GUARDRAIL
- ㉑ HOT-MIX ASPHALT SURFACE REMOVAL 4"
- ㉒ HOT-MIX ASPHALT SURFACE REMOVAL 3 3/4"
- ㉓ HOT-MIX ASPHALT SURFACE REMOVAL 3 1/4"
- ㉔ POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, STONE MATRIX ASPHALT, N80, 2"
- ㉕ POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, STONE MATRIX ASPHALT, N80, 2"
- ㉖ HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70, 1 1/2"
- ㉗ HOT-MIX ASPHALT BINDER COURSE, 1L-19.0, N70, 2 1/4"
- ㉘ NOT USED
- ㉙ PROPOSED SHOULDER RUMBLE STRIP (STD. 642001-01)
- ㉚ HOT-MIX ASPHALT SHOULDER REMOVAL AND REPLACEMENT (SPECIAL)

**NOTES**

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3. THE COST OF HAND REMOVAL OF HMA SURFACE AROUND CASTINGS SHALL BE INCLUDED IN THE COST OF HMA SURFACE REMOVAL OF THE THICKNESS SPECIFIED.
4. THE CONTRACTOR SHALL PATCH FIRST BEFORE MILLING.

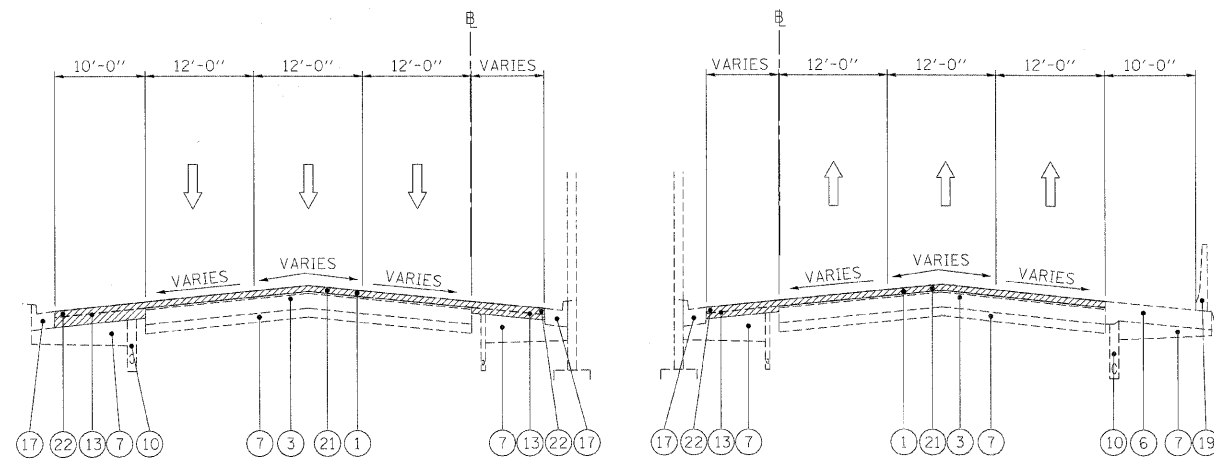
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**benesch**

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

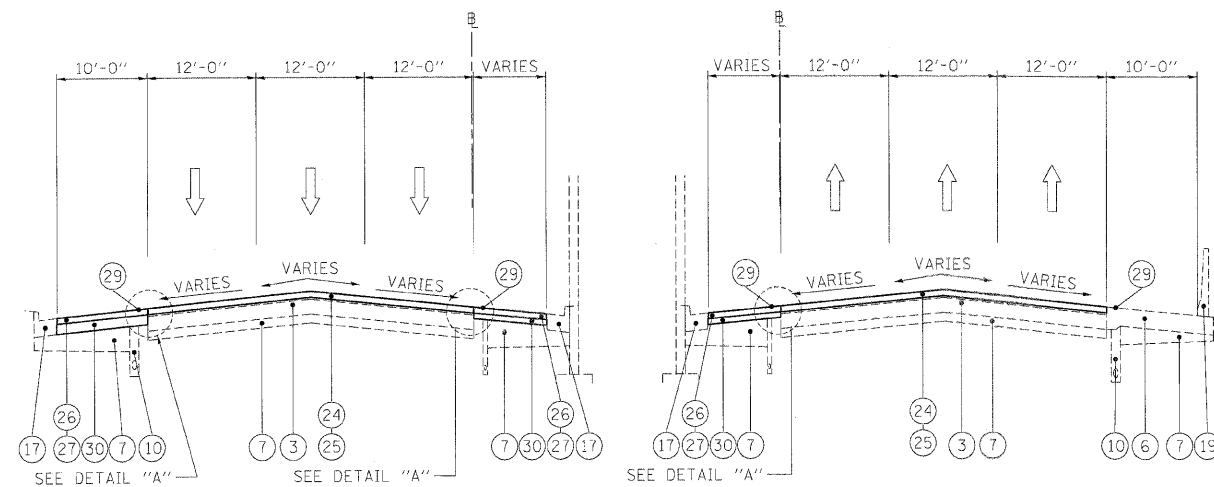
<b>TYPICAL SECTIONS</b>		F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
<b>I-290 MAINLINE</b>		290	(3031.1, ETC., 3838)RS-5	COOK	298	19
SCALE: N.T.S.		SHEET NO. 14 OF 19 SHEETS		STA.	TO STA.	
		FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

CONTRACT NO. 60G52



**EXISTING TYPICAL SECTION**

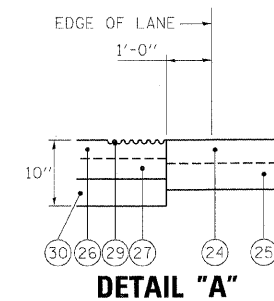
STA 772+50 TO STA 789+15  
STA 855+20 TO STA 872+00



**PROPOSED TYPICAL SECTION**

STA 772+50 TO STA 789+15  
STA 855+20 TO STA 872+00

NOTE: LIMIT OF HOT-MIX ASPHALT SHOULDER  
REMOVAL AND REPLACEMENT (SPECIAL) - STA 856+00



**LEGEND**

- ① EXISTING HMA OVERLAY, VARIES
- ② EXISTING C.R.C. PAVEMENT, 12"
- ③ EXISTING P.C.C. PAVEMENT, 10"
- ④ EXISTING C.R.C. PAVEMENT, 9"
- ⑤ EXISTING C.R.C. PAVEMENT
- ⑥ EXISTING P.C.C. BASE COURSE
- ⑦ EXISTING STABILIZED SUB-BASE, 4"
- ⑧ EXISTING SUB-BASE GRANULAR MATERIAL, TYPE A
- ⑨ EXISTING PGE WRAPPED IN FABRIC (VARIOUS LOCATIONS)
- ⑩ EXISTING PIPE UNDERDRAIN
- ⑪ EXISTING P.C.C. SHOULDER
- ⑫ EXISTING STABILIZED MEDIAN SURFACE
- ⑬ EXISTING BITUMINOUS SHOULDER
- ⑭ EXISTING AGGREGATE SHOULDER
- ⑮ EXISTING AGGREGATE SHOULDER, TYPE B
- ⑯ EXISTING COMB. CONC. CURB & GUTTER, TYPE M-2.12
- ⑰ EXISTING COMB. CONC. CURB & GUTTER, TYPE M-6.24
- ⑱ EXISTING COMB. CONC. CURB & GUTTER, TYPE B-6.24
- ⑲ EXISTING P.C.C. BARRIER WALL
- ⑳ EXISTING STEEL PLATE BEAM GUARDRAIL
- ㉑ HOT-MIX ASPHALT SURFACE REMOVAL 4"
- ㉒ HOT-MIX ASPHALT SURFACE REMOVAL 3 3/4"
- ㉓ HOT-MIX ASPHALT SURFACE REMOVAL 3 1/4"
- ㉔ POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, STONE MATRIX ASPHALT, N80, 2"
- ㉕ POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, STONE MATRIX ASPHALT, N80, 2"
- ㉖ HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70, 1 1/2"
- ㉗ HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70, 2 1/4"
- ㉘ NOT USED
- ㉙ PROPOSED SHOULDER RUMBLE STRIP (STD. 642001-01)
- ㉚ HOT-MIX ASPHALT SHOULDER REMOVAL AND REPLACEMENT (SPECIAL)

**NOTES**

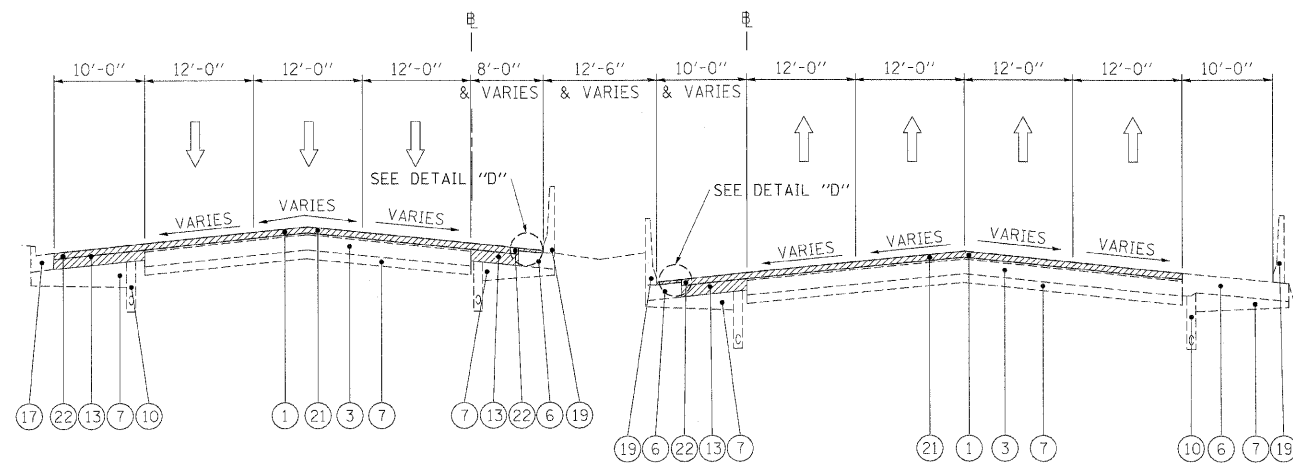
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FILE NAME =	DESIGNED - AJP	REVISED -
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PLOT DATE = 11/19/2009	DATE - 10/16/09	REVISED -

**benesch**

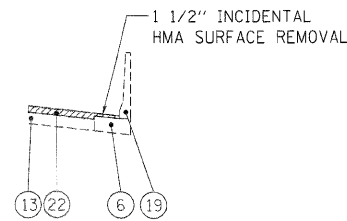
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>TYPICAL SECTIONS I-290 MAINLINE</b>		F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
SCALE: N.T.S.	SHEET NO. 15 OF 19 SHEETS	290	(3031.1, ETC., 3838)RS-5	COOK	298	20
STA.	TO STA.	CONTRACT NO. 60G52				
		FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT				

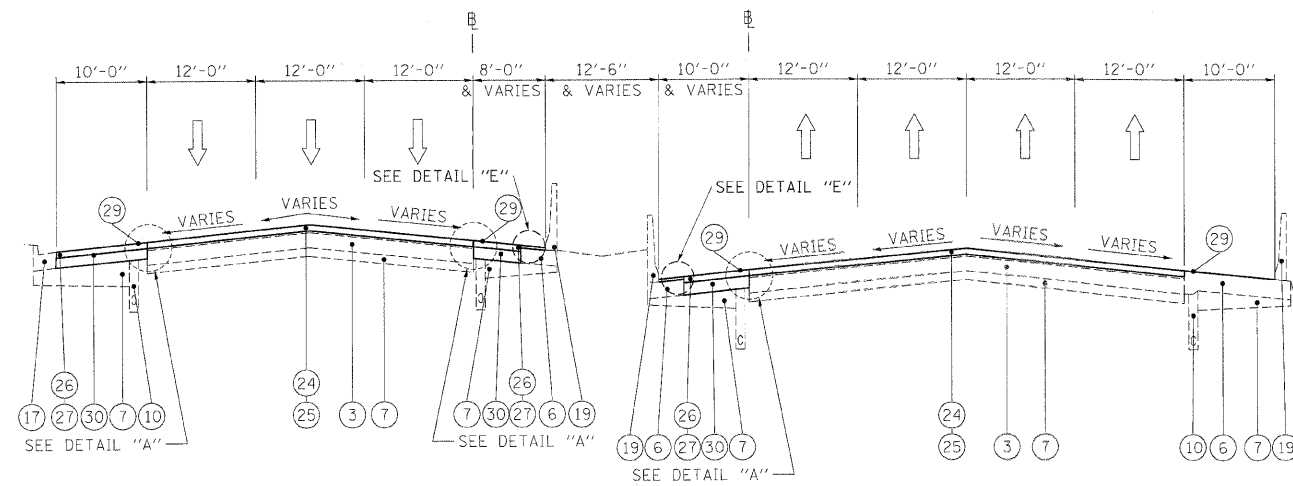


**EXISTING TYPICAL SECTION**

STA 791+00 TO STA 806+00

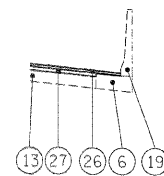


**DETAIL "D"**

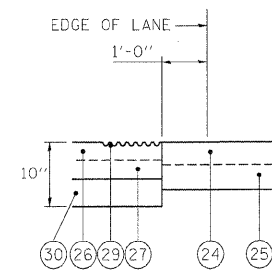


**PROPOSED TYPICAL SECTION**

STA 791+00 TO STA 806+00



**DETAIL "E"**



**DETAIL "A"**

**LEGEND**

- ① EXISTING HMA OVERLAY, VARIES\*
- ② EXISTING C.R.C. PAVEMENT, 12"
- ③ EXISTING P.C.C. PAVEMENT, 10"
- ④ EXISTING C.R.C. PAVEMENT, 9"
- ⑤ EXISTING C.R.C. PAVEMENT
- ⑥ EXISTING P.C.C. BASE COURSE
- ⑦ EXISTING STABILIZED SUB-BASE, 4"
- ⑧ EXISTING SUB-BASE GRANULAR MATERIAL, TYPE A
- ⑨ EXISTING PGE WRAPPED IN FABRIC (VARIOUS LOCATIONS)
- ⑩ EXISTING PIPE UNDERDRAIN
- ⑪ EXISTING P.C.C. SHOULDER
- ⑫ EXISTING STABILIZED MEDIAN SURFACE
- ⑬ EXISTING BITUMINOUS SHOULDER
- ⑭ EXISTING AGGREGATE SHOULDER
- ⑮ EXISTING AGGREGATE SHOULDER, TYPE B
- ⑯ EXISTING COMB. CONC. CURB & GUTTER, TYPE M-2.12
- ⑰ EXISTING COMB. CONC. CURB & GUTTER, TYPE M-6.24
- ⑱ EXISTING COMB. CONC. CURB & GUTTER, TYPE B-6.24
- ⑲ EXISTING P.C.C. BARRIER WALL
- ⑳ EXISTING STEEL PLATE BEAM GUARDRAIL
- ㉑ HOT-MIX ASPHALT SURFACE REMOVAL 4"
- ㉒ HOT-MIX ASPHALT SURFACE REMOVAL 3 3/4"
- ㉓ HOT-MIX ASPHALT SURFACE REMOVAL 3 1/4"
- ㉔ POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, STONE MATRIX ASPHALT, N80, 2"
- ㉕ POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, STONE MATRIX ASPHALT, N80, 2"
- ㉖ HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70, 1 1/2"
- ㉗ HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70, 2 1/4"
- ㉘ NOT USED
- ㉙ PROPOSED SHOULDER RUMBLE STRIP (STD. 642001-01)
- ㉚ HOT-MIX ASPHALT SHOULDER REMOVAL AND REPLACEMENT (SPECIAL)

**NOTES**

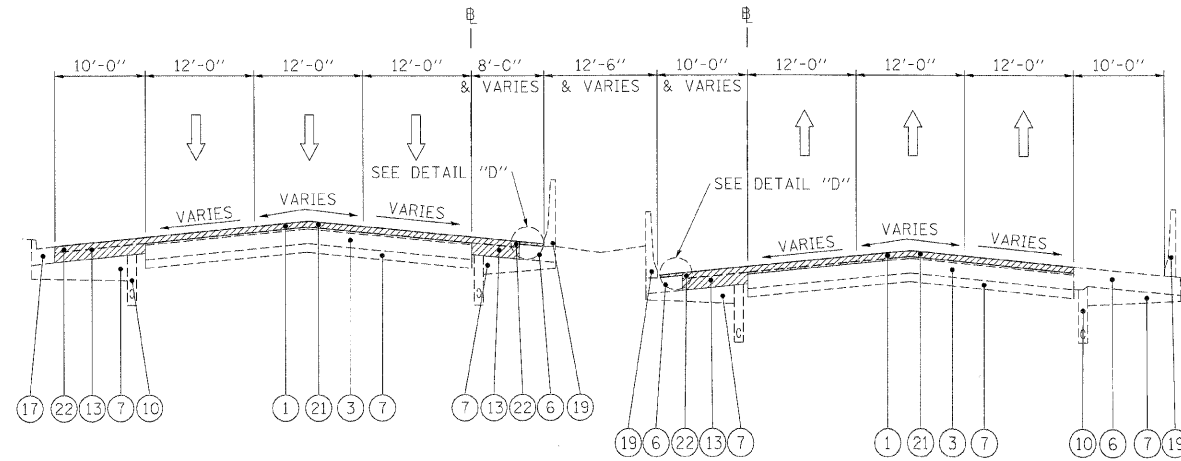
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FILE NAME =	DESIGNED - AJP	REVISED -
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USER NAME = jrojewski	CHECKED - JMM	REVISED -
PLDT DATE = 11/13/2009	DATE - 10/16/09	REVISED -

**benesch**

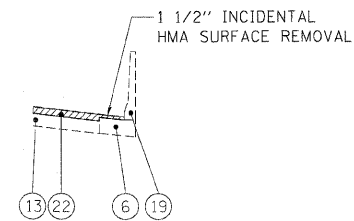
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>TYPICAL SECTIONS</b>		F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
<b>I-290 MAINLINE</b>		290	(3031.1, ETC., 3838RS-5	COOK	298	21
SCALE: N.T.S.	SHEET NO. 16 OF 19 SHEETS	STA.	TO STA.	CONTRACT NO. 60C52		
				FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT	

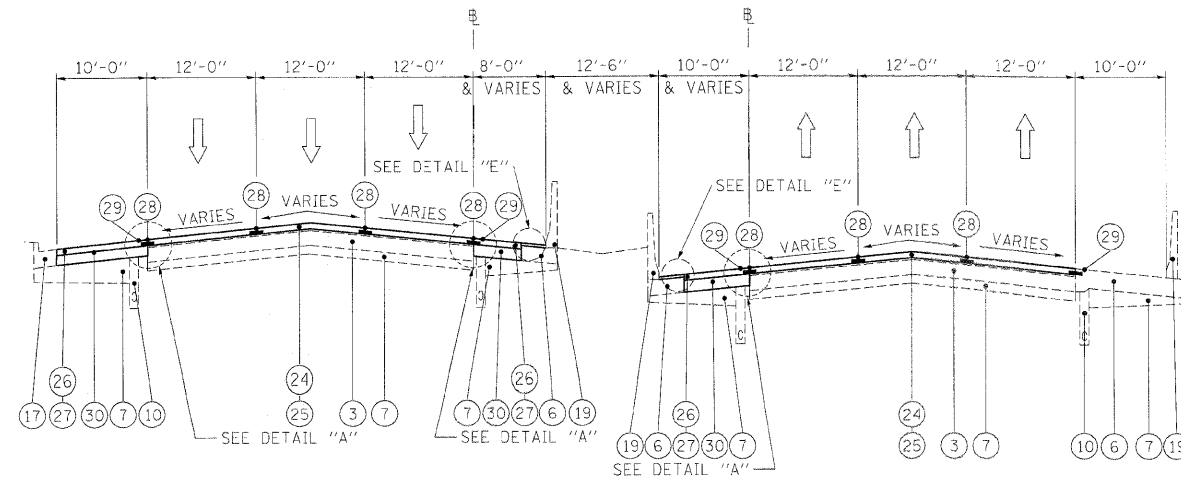


**EXISTING TYPICAL SECTION**

STA 817+00 TO STA 845+10

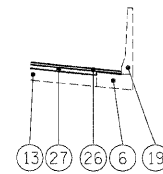


**DETAIL "D"**

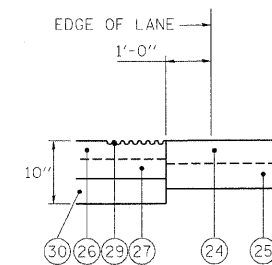


**PROPOSED TYPICAL SECTION**

STA 817+00 TO STA 845+10



**DETAIL "E"**



**DETAIL "A"**

**LEGEND**

- ① EXISTING HMA OVERLAY, VARIES
- ② EXISTING C.R.C. PAVEMENT, 12"
- ③ EXISTING P.C.C. PAVEMENT, 10"
- ④ EXISTING C.R.C. PAVEMENT, 9"
- ⑤ EXISTING C.R.C. PAVEMENT
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- ⑦ EXISTING STABILIZED SUB-BASE, 4"
- ⑧ EXISTING SUB-BASE GRANULAR MATERIAL, TYPE A
- ⑨ EXISTING PGE WRAPPED IN FABRIC (VARIOUS LOCATIONS)
- ⑩ EXISTING PIPE UNDERDRAIN
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- ⑫ EXISTING STABILIZED MEDIAN SURFACE
- ⑬ EXISTING BITUMINOUS SHOULDER
- ⑭ EXISTING AGGREGATE SHOULDER
- ⑮ EXISTING AGGREGATE SHOULDER, TYPE B
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- ㉒ HOT-MIX ASPHALT SURFACE REMOVAL 3 3/4"
- ㉓ HOT-MIX ASPHALT SURFACE REMOVAL 3 1/4"
- ㉔ POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, STONE MATRIX ASPHALT, N80, 2"
- ㉕ POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, STONE MATRIX ASPHALT, N80, 2"
- ㉖ HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70, 1 1/2"
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- ㉘ NOT USED
- ㉙ PROPOSED SHOULDER RUMBLE STRIP (STD. 642001-01)
- ㉚ HOT-MIX ASPHALT SHOULDER REMOVAL AND REPLACEMENT (SPECIAL)

**NOTES**

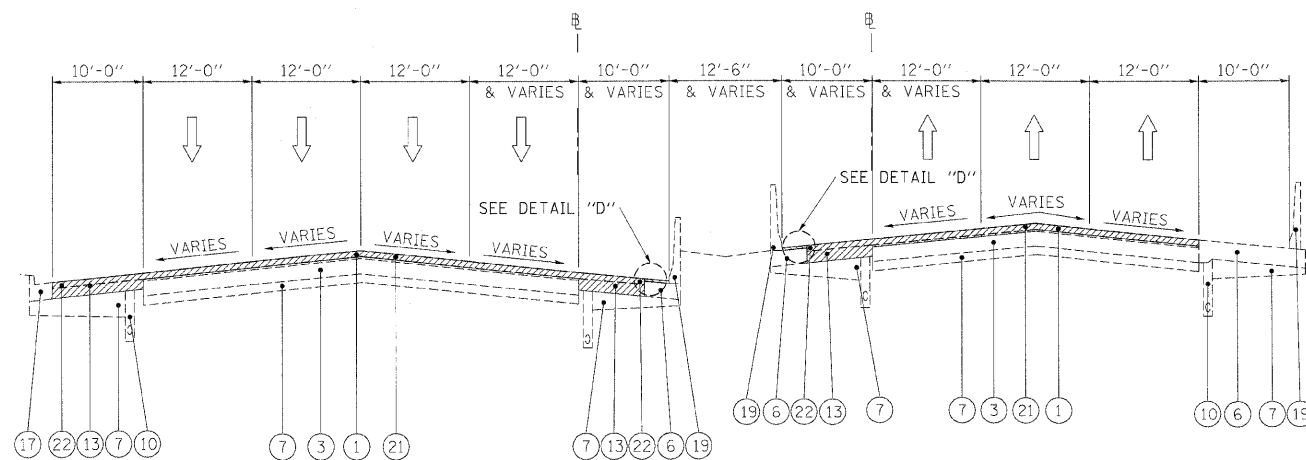
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PLOT DATE = 11/13/2009	DATE - 10/16/09	REVISED -

**benesch**

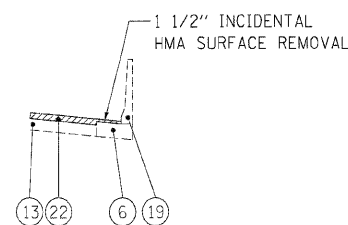
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>TYPICAL SECTIONS I-290 MAINLINE</b>		F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
SCALE: N.T.S. SHEET NO. 17 OF 19 SHEETS STA. TO STA.		290	(3031.1, ETC., 3838)RS-5	COOK	298	22
		CONTRACT NO. 60G52				
		FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT				

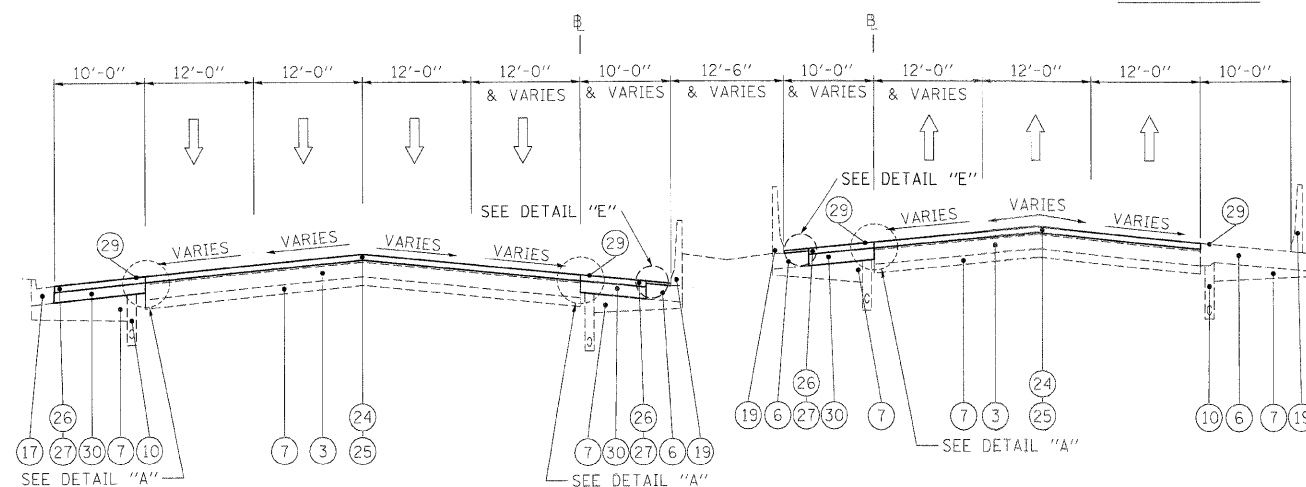


**EXISTING TYPICAL SECTION**

STA 845+10 TO STA 852+90

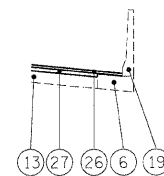


**DETAIL "D"**

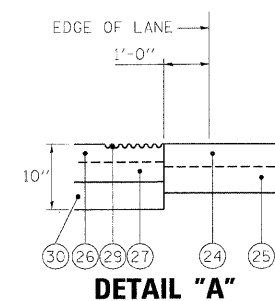


**PROPOSED TYPICAL SECTION**

STA 845+10 TO STA 852+90



**DETAIL "E"**



**DETAIL "A"**

**LEGEND**

- ① EXISTING HMA OVERLAY, VARIES
- ② EXISTING C.R.C. PAVEMENT, 12"
- ③ EXISTING P.C.C. PAVEMENT, 10"
- ④ EXISTING C.R.C. PAVEMENT, 9"
- ⑤ EXISTING C.R.C. PAVEMENT
- ⑥ EXISTING P.C.C. BASE COURSE
- ⑦ EXISTING STABILIZED SUB-BASE, 4"
- ⑧ EXISTING SUB-BASE GRANULAR MATERIAL, TYPE A
- ⑨ EXISTING PGE WRAPPED IN FABRIC (VARIOUS LOCATIONS)
- ⑩ EXISTING PIPE UNDERDRAIN
- ⑪ EXISTING P.C.C. SHOULDER
- ⑫ EXISTING STABILIZED MEDIAN SURFACE
- ⑬ EXISTING BITUMINOUS SHOULDER
- ⑭ EXISTING AGGREGATE SHOULDER
- ⑮ EXISTING AGGREGATE SHOULDER, TYPE B
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- ⑰ EXISTING COMB. CONC. CURB & GUTTER, TYPE M-6.24
- ⑱ EXISTING COMB. CONC. CURB & GUTTER, TYPE B-6.24
- ⑲ EXISTING P.C.C. BARRIER WALL
- ⑳ EXISTING STEEL PLATE BEAM GUARDRAIL
- ㉑ HOT-MIX ASPHALT SURFACE REMOVAL 4"
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- ㉓ HOT-MIX ASPHALT SURFACE REMOVAL 3 1/4"
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- ㉕ POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, STONE MATRIX ASPHALT, NBO, 2"
- ㉖ HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70, 1 1/2"
- ㉗ HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70, 2 1/4"
- ㉘ NOT USED
- ㉙ PROPOSED SHOULDER RUMBLE STRIP (STD. 642001-01)
- ㉚ HOT-MIX ASPHALT SHOULDER REMOVAL AND REPLACEMENT (SPECIAL)

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PLOT DATE = 11/13/2009	DATE - 10/16/09	REVISED -

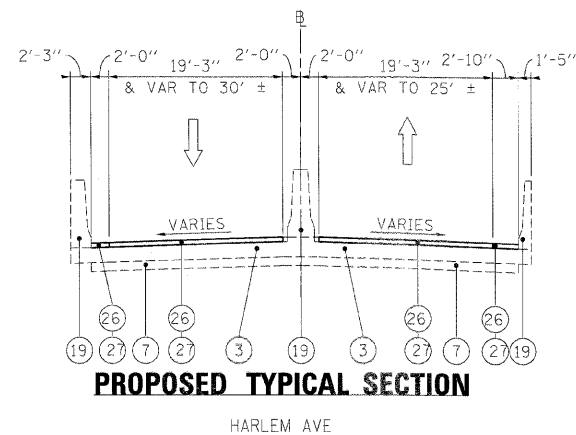
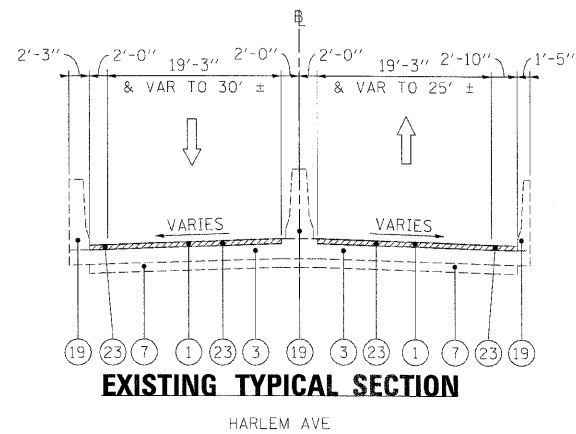
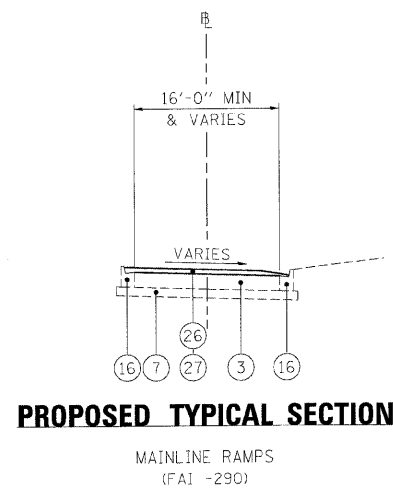
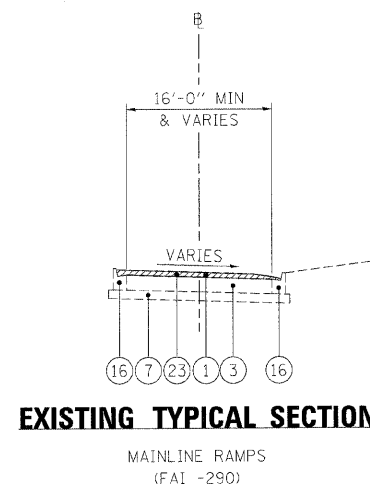
**benesch**

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**TYPICAL SECTIONS  
I-290 MAINLINE**

SCALE: N.T.S. SHEET NO. 18 OF 19 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	(3031.1, ETC., 3838)RS-5	COOK	298	23
FED. ROAD DIST. NO. [IL]INDIS FED. AID PROJECT			CONTRACT NO. 60G52	



**LEGEND**

- ① EXISTING HMA OVERLAY, VARIES
- ② EXISTING C.R.C. PAVEMENT, 12"
- ③ EXISTING P.C.C. PAVEMENT, 10"
- ④ EXISTING C.R.C. PAVEMENT, 9"
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- ⑫ EXISTING STABILIZED MEDIAN SURFACE
- ⑬ EXISTING BITUMINOUS SHOULDER
- ⑭ EXISTING AGGREGATE SHOULDER
- ⑮ EXISTING AGGREGATE SHOULDER, TYPE B
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USER NAME = jmajewski	CHECKED - JMM	REVISED -
PLOT DATE = 11/13/2009	DATE - 10/16/09	REVISED -

**benesch**

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>TYPICAL SECTIONS I-290 RAMPS</b>	
SCALE: N.T.S.	SHEET NO. 19 OF 19 SHEETS
STA.	TO STA.

F.A.J. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	(3031.1, ETC., 3838)RS-5	COOK	298	24
FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT			CONTRACT NO. 60652	



CONTRACT 60G52  
RESURFACING SCHEDULE

LOCATION					POLYMERIZED HMA SURFACE COURSE, SMA, N80	POLYMERIZED HMA BINDER COURSE, SMA, N80	HMA SURFACE COURSE, MIX D, N70	HMA BINDER COURSE, IL-19.0, N70	POLYMERIZED HMA SURFACE COURSE, MIX "F", N90	POLYMERIZED HMA BINDER COURSE, IL-19.0, N90	HMA SURFACE REMOVAL, 3-1/4"	HMA SURFACE REMOVAL, 3-3/4"	HMA SURFACE REMOVAL, 4"
ALIGNMENT	DIRECTION	DESCRIPTION	STATION	STATION	(TON)	(TON)	(TON)	(TON)	(TON)	(SQ YD)	(SQ YD)	(SQ YD)	
I-88	EB	MAINLINE	478+67	503+35	1236	1026						9159	
I-88	WB	MAINLINE	478+57	499+60	904	750						6694	
I-88	EB	SHOULDER	487+58	498+63			267	401			3182		
I-88	WB	SHOULDER	478+67	499+57			420	631			5004		
I-88	EB	SHOULDER	487+58	498+58			36	55			433		
I-88	WB	SHOULDER	478+67	498+63			184	276			2190		
I-88	EB	SHOULDER	478+57	499+61			211	317			2512		
IL-38 RAMP	EB	RAMP	0+05	45+36					480	618		7,536	
IL-38 RAMP	EB	OUTSIDE SHLDR	0+05	45+36			645	967			10,681		
IL-38 RAMP	WB	INSIDE SHLDR	0+07	48+06			344	515			4,492		
IL-38 RAMP	WB	INSIDE SHLDR					393	590			4,681		
IL-38 RAMP	WB	RAMP	3+15	51+00					858	1,103		9,836	
IL-38 RAMP	WB	OUTSIDE SHLDR	02+08	17+06			83	124			1,005		
IL-38 RAMP	EB	INSIDE SHLDR	20+53	45+36			182	273			2,167		
290	WB	INSIDE SHLDR	489+85	499+64			116	174			1,379		
290	WB	MAINLINE	489+88	507+17	1,120	929						8,299	
290	WB	OUTSIDE SHLDR	490+02	507+12			239	358			2,840		
290	EB	INSIDE SHLDR	492+40	501+16			67	100			797		
290	EB	INSIDE SHLDR	493+28	503+38			83	124			988		
290	EB	MAINLINE	493+26	507+19	955	792						7,071	
290	WB	INSIDE SHLDR	499+57	507+18			79	66			588		
290	EB	INSIDE SHLDR	499+58	507+18			86	71			637		
290	EB	OUTSIDE SHLDR	501+06	507+23				73	109		966		
290	WB	OUTSIDE SHLDR	508+98	525+09			111	166			1,321		
290	WB	MAINLINE	509+06	525+09	1,093	907						8,097	
290	WB	INSIDE SHLDR	509+07	525+08			168	139			1,245		
290	EB	INSIDE SHLDR	509+07	525+09			177	147			1,313		
290	EB	MAINLINE	509+08	525+09	886	735						6,563	
290	EB	OUTSIDE SHLDR	509+15	525+08			159	239			1,898		
290	EB	OUTSIDE SHLDR	525+82	583+87			816	1,224			9,717		
290	WB	MAINLINE	525+82	593+25	4,620	3,833						34,222	
290	WB	INSIDE SHLDR	525+82	593+25			720	597			5,330		
290	EB	INSIDE SHLDR	525+82	593+25			786	652			5,824		
290	WB	OUTSIDE SHLDR	525+83	534+91				118	178		1,409		
290	EB	MAINLINE	525+83	593+25	4,109	3,409						30,438	
290	WB	OUTSIDE SHLDR	536+15	553+65			256	384			3,050		
290	WB	AUXLANE					396	594			4,716		
290	WB	OUTSIDE SHLDR	554+45	567+57			117	176			1,394		
290	WB	OUTSIDE SHLDR	567+60	576+90			93	139			1,103		
290	WB	OUTSIDE SHLDR	576+91	593+25			119	179			1,421		
290	WB	AUXLANE					265	398			3,155		
290	EB	OUTSIDE SHLDR	583+88	593+25			87	131			1,036		
290	EB	OUTSIDE SHLDR	594+90	602+05			57	86			679		
290	WB	OUTSIDE SHLDR	594+90	600+89			39	59			468		
290	WB	AUXLANE					111	166			1,320		
290	EB	MAINLINE	594+90	602+13	607	503						4,495	
290	WB	MAINLINE	594+90	602+14	404	335						2,993	
290	WB	INSIDE SHLDR	594+90	720+26	886	735					6,561		
290	EB	INSIDE SHLDR	594+90	720+26	1,582	1,313					11,721		
290	WB	RAMP	601+27	604+13	73	60				538			
290	WB	OUTSIDE SHLDR	601+28	615+91			148	223			1,766		
290	EB	RAMP	602+07	604+17	50	42				374			
290	EB	OUTSIDE SHLDR	602+08	615+47			149	223			1,769		
290	EB	MAINLINE	602+13	720+26	7,106	5,896						52,640	
290	WB	MAINLINE	602+14	720+26	6,996	5,804						51,826	
290	EB	RAMP OUTSIDE SHLDR	615+24	618+68			22	34			266		
290	EB	RAMP INSIDE SHLDR	615+47	618+53			41	61			486		
290	EB	RAMP	615+47	618+53	176	146				1,307			
290	EB	OUTSIDE SHLDR	615+47	621+71			29	43			339		
290	EB	AUXLANE					122	183			1,453		
290	WB	RAMP	615+96	618+54	145	120				1,073			
290	WB	RAMP OUTSIDE SHLDR	615+96	618+63			21	31			245		
290	WB	RAMP INSIDE SHLDR	615+97	618+54			60	90			712		
290	WB	OUTSIDE SHLDR	615+97	624+59			85	128			1,015		
290	WB	RAMP	619+32	624+59	137	114				1,014			
290	WB	RAMP INSIDE SHLDR	619+32	624+59			25	37			293		
290	WB	RAMP OUTSIDE SHLDR	619+34	624+59			24	35			280		
290	EB	RAMP INSIDE SHLDR	619+34	625+36			32	48			383		
290	EB	RAMP	619+34	625+61	161	133				1,192			
290	EB	RAMP OUTSIDE SHLDR	619+37	625+62			31	47			372		
290	EB	RAMP	619+38	621+71	153	127				1,130			
290	EB	RAMP INSIDE SHLDR	621+71	619+38			41	62			492		
290	EB	RAMP OUTSIDE SHLDR	621+71	619+29			23	35			277		
290	EB	OUTSIDE SHLDR	621+71	625+61			42	63			499		
290	WB	OUTSIDE SHLDR	624+58	634+36			80	120			953		
290	WB	AUXLANE					177	266			2,113		
290	EB	OUTSIDE SHLDR	625+62	637+99			107	160			1,273		

CONTRACT 60G52  
HOT-MIX ASPHALT SHOULDER REMOVAL AND REPLACEMENT (SPECIAL)

DIRECTION	DESCRIPTION	BEGIN STATION	END STATION	(SQ YD)
WB	INSIDE SHLDR	770+90	772+53	104
WB	OUTSIDE SHLDR	770+90	855+90	10,555
EB	INSIDE SHLDR	771+00	772+41	150
EB	INSIDE SHLDR	772+45	789+25	1,190
WB	INSIDE SHLDR	772+53	789+08	842
WB	INSIDE SHLDR	789+08	855+22	5,334
EB	INSIDE SHLDR	789+25	855+22	7,442
WB	INSIDE SHLDR	855+18	855+90	15
EB	INSIDE SHLDR	855+22	856+00	108
TOTAL				25,740

CONTRACT 60G52  
CURB SCHEDULE

LOCATION				COMBINATION CURB AND GUTTER REMOVAL	COMBINATION CONCRETE CURB AND GUTTER REMOVAL AND REPLACEMENT	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24
ALIGNMENT	DIRECTION	SIDE	STATION	(FOOT)	(FOOT)	(FOOT)
290	EB	L	494+50	340		340
290	EB	L	502+50	200		200
290	EB	R	506+50	43		43
290	EB	R	508+00	1,584		1,584
290	EB	R	524+50	30		30
290	WB	R	534+00	100		100
290	EB	R	557+50		5	
290	EB	R	580+00		5	
290	WB	L	612+00		5	
290	EB	R	615+00		5	
290	RAMP	R	1+00		8	
290	WB	R	619+50		6	
290	WB	L	625+50	90		90
290	EB	R	627+40		5	
290	EB	R	637+00	15		15
290	EB	R	651+00		10	
290	EB	R	653+00		10	
290	EB	R	661+00		5	
290	EB	R	663+00		5	
290	EB	R	668+00	150		150
290	EB	R	681+50	90		90
290	EB	R	683+50		10	
290	EB	R	686+20		10	
290	EB	R	701+00		5	
290	WB	L	706+20	90		90
290	RAMP	R	0+50	20		20
290	WB	L	742+00	20		20
290	WB	L	742+00		6	
290	WB	R	754+00	40		40
TOTAL				2,812	100	2,812

CONTRACT 60G52  
RESURFACING SCHEDULE

LOCATION					POLYMERIZED HMA SURFACE COURSE, SMA, N80	POLYMERIZED HMA BINDER COURSE, SMA, N80	HMA SURFACE COURSE, MIX D, N70	HMA BINDER COURSE, IL-19.0, N70	POLYMERIZED HMA SURFACE COURSE, MIX "F", N90	POLYMERIZED HMA BINDER COURSE, IL-19.0, N90	HMA SURFACE REMOVAL, 3-1/4"	HMA SURFACE REMOVAL, 3-3/4"	HMA SURFACE REMOVAL, 4"
ALIGNMENT	DIRECTION	DESCRIPTION	STATION	STATION	(TON)	(TON)	(TON)	(TON)	(TON)	(TON)	(SQ YD)	(SQ YD)	(SQ YD)
290	EB	AUX LANE					181	271				2,151	
290	WB	RAMP	635+15	637+37	54	45					402		
290	WB	OUTSIDE SHLDR	635+15	654+92			211	316				2,510	
290	EB	RAMP	638+81	643+09	116	96					859		
290	EB	OUTSIDE SHLDR	638+82	653+17			148	221				1,757	
290	EB	RAMP	650+22	653+17	77	64					570		
290	WB	RAMP	652+13	654+92	68	57					507		
290	EB	OUTSIDE SHLDR	653+36	679+39			266	399				3,163	
290	WB	OUTSIDE SHLDR	654+92	679+34			219	338				2,685	
290	EB	RAMP	675+07	679+39	103	86					765		
290	WB	RAMP	675+22	679+34	103	86					764		
290	WB	OUTSIDE SHLDR	679+34	691+29			68	102				813	
290	EB	OUTSIDE SHLDR	679+39	690+96			75	112				890	
290	EB	RAMP	690+96	694+68	89	74					660		
290	EB	OUTSIDE SHLDR	690+96	705+40			143	215				1,708	
290	WB	RAMP	691+29	694+38	68	56					503		
290	WB	OUTSIDE SHLDR	691+29	707+42			199	299				2,370	
290	EB	RAMP	699+71	705+40	258	214					1,911		
290	WB	RAMP	703+36	707+41	84	70					621		
290	WB	OUTSIDE SHLDR	707+41	720+26			110	165				1,312	
290	WB	OUTSIDE SHLDR	723+12	743+82			173	259				2,057	
290	EB	INSIDE SHLDR	723+12	757+05	416	345						3,079	
290	WB	INSIDE SHLDR	723+12	757+05	159	132						1,176	
290	WB	MAINLINE	723+12	872+00	8,946	7,422							66,265
290	EB	MAINLINE	723+13	872+00	8,984	7,453							66,548
290	EB	RAMP	739+23	745+87	180	149					1,330		
290	EB	OUTSIDE SHLDR	739+23	755+12			149	224				1,778	
290	WB	RAMP	743+82	749+14	175	145					1,296		
290	WB	OUTSIDE SHLDR	743+83	770+91			312	468				3,716	
290	CENTER	INSIDE SHLDR	757+05	760+00	94	78						695	
290	CENTER	INSIDE SHLDR	760+00	771+00			208	312				2,473	
290	WB	INSIDE SHLDR	770+91	772+53			9	13				104	
290	WB	OUTSIDE SHLDR	770+91	855+90			887	1,330				10,555	
290	EB	INSIDE SHLDR	771+00	772+41			13	19				150	
290	EB/WB	RAMPS	772+18	779+20	537	446					3,978		
290	EB	INSIDE SHLDR	772+45	789+25			100	150				1,190	
290	WB	INSIDE SHLDR	772+53	789+08			71	106				842	
290	EB/WB	RAMPS	780+84	789+25	628	521					4,652		
290	WB	INSIDE SHLDR	789+08	855+21			448	672				5,334	
290	EB	INSIDE SHLDR	789+25	855+22			625	938				7,442	
290	WB	INSIDE SHLDR	855+18	855+90			1	2				15	
290	EB/WB	RAMPS	855+18	862+23	507	421					3,759		
290	EB	INSIDE SHLDR	855+22	856+00			9	14				108	
290	WB	OUTSIDE SHLDR	855+90	871+96			164	246				1,953	
290	EB/WB	RAMPS	863+74	872+02	677	561							
TOTAL					57,739	47,902	12,135	18,212	1,338	1,721	33,011	182,332	372,681

CONTRACT 60G52  
RUMBLE STRIP SCHEDULE

I-290 WESTBOUND - OUTSIDE SHOULDER			
STATION TO STATION		RUMBLE STRIP LENGTH	SHOULDER SURFACE TYPE
START	END	(FOOT)	
503+83	507+11	333	HMA
508+99	525+09	1,631	HMA
525+83	534+91	902	HMA
554+45	558+53	408	HMA
567+60	576+90	922	HMA
585+97	593+25	728	HMA
594+90	598+85	395	HMA
601+28	615+91	1,464	HMA
618+46	624+59	613	HMA
635+15	654+92	1,969	HMA
659+77	679+34	1,958	HMA
683+67	686+32	265	HMA
691+29	707+42	1,604	HMA
711+34	720+25	898	HMA
723+13	736+27	1,509	HMA
743+83	871+96	12,847	HMA
TOTAL		28,446	

CONTRACT 60G52  
RUMBLE STRIP SCHEDULE

I-290 EASTBOUND - INSIDE SHOULDER			
STATION TO STATION		RUMBLE STRIP LENGTH	SHOULDER SURFACE TYPE
START	END	(FOOT)	
493+20	503+37	1,004	HMA
506+40	507+19	79	HMA
509+08	525+09	1,596	HMA
525+83	593+25	6,750	HMA
594+90	720+26	12,538	HMA
723+13	767+35	4,422	HMA
800+19	846+35	4,616	HMA
TOTAL		31,005	

CONTRACT 60G52  
RUMBLE STRIP SCHEDULE

I-290 EASTBOUND - OUTSIDE SHOULDER			
STATION TO STATION		RUMBLE STRIP LENGTH	SHOULDER SURFACE TYPE
START	END	(FOOT)	
501+06	507+23	614	CONCRETE
509+14	525+08	1,573	HMA
525+82	583+86	5,832	HMA
610+21	615+47	526	HMA
621+71	625+62	391	HMA
638+81	653+17	1,440	HMA
654+76	679+39	2,463	HMA
682+44	686+64	420	HMA
690+96	705+35	1,444	HMA
710+05	720+26	1,014	CONCRETE
723+13	736+61	1,352	CONCRETE
739+24	755+45	1,612	HMA
755+45	872+00	11,655	CONCRETE
TOTAL		30,336	

CONTRACT 60G52  
RUMBLE STRIP SCHEDULE

I-290 WESTBOUND - INSIDE SHOULDER			
STATION TO STATION		RUMBLE STRIP LENGTH	SHOULDER SURFACE TYPE
START	END	(FOOT)	
499+57	507+17	762	HMA
509+05	525+07	1,607	HMA
525+82	593+25	6,737	HMA
594+90	720+26	12,539	HMA
723+13	760+01	3,694	HMA
760+01	764+22	421	HMA
794+79	845+07	5,030	HMA
TOTAL		30,790	

CONTRACT 60G52  
TEMPORARY INFORMATION SIGNING - STAGE 1

STATION	LEGEND/DESCRIPTION	PANEL		PANEL
		COVER DIMENSIONS		COVER AREA
		WIDTH (FT)	HEIGHT (FT)	(SQ FT)
468+05	TRAFFIC	1.5	7.2	10.8
482+30	TRAFFIC	1.5	7.2	10.8
505+00	ALL LANES	1.8	12.5	22.9
522+50	ALL LANES	1.8	12.5	22.9
546+40	ALL LANES	1.8	12.5	22.9
522+50	LEFT 1/4 MILE	1.8	12.5	22.9
546+40	LEFT 3/4 MILE	1.8	12.5	22.9
600+00	COVER	12.0	17.5	210.0
590+80	COVER	8.0	14.0	112.0
NA	2010 REPAIR & RESURFACING	9.0	17.0	153.0
482+30	COVER	8.0	14.0	112.0
468+05	COVER	10.0	17.0	170.0
482+30	COVER	10.0	17.0	170.0
496+20	COVER	2.5	3.3	8.3
505+00	COVER	2.0	2.0	4.0
505+00	ARROW	2.0	2.0	4.0
TOTAL				1079.4

CONTRACT 60G52  
TEMPORARY INFORMATION SIGNING - STAGE 2

STATION	LEGEND/DESCRIPTION	PANEL		PANEL
		COVER DIMENSIONS		COVER AREA
		WIDTH (FT)	HEIGHT (FT)	(SQ FT)
795+00	HARLEM AVE EXIT ONLY	3.0	19.5	58.5
468+05	TRAFFIC	1.5	7.2	10.8
482+30	TRAFFIC	1.5	7.2	10.8
809+40	EXIT ONLY	2.5	18.0	45.0
836+30	EXIT ONLY	2.5	18.0	45.0
522+50	LEFT 1/4 MILE	1.8	12.5	22.9
546+40	LEFT 3/4 MILE	1.8	12.5	22.9
600+00	COVER	12.0	17.5	210.0
590+80	COVER	8.0	14.0	112.0
482+30	COVER	8.0	14.0	112.0
468+05	COVER	10.0	17.0	170.0
482+20	COVER	10.0	17.0	170.0
505+00	COVER	2.0	2.0	4.0
522+50	COVER	2.0	2.0	4.0
522+50	ARROW	2.0	2.0	4.0
TOTAL				1001.8

CONTRACT 60G52  
TEMPORARY PAVEMENT MARKING AND TEMPORARY IMPACT ATTENUATOR SCHEDULE

STAGE	WET REFLECTIVE TEMPORARY TAPE - LETTERS AND SYMBOLS	WET REFLECTIVE TEMPORARY TAPE, TYPE III, 4 INCH	WET REFLECTIVE TEMPORARY TAPE, TYPE III, 5 INCH	TEMPORARY PAVEMENT MARKING - LINE 6"	WET REFLECTIVE TEMPORARY TAPE, TYPE III, 8 INCH	WET REFLECTIVE TEMPORARY TAPE, TYPE III, 12 INCH	PAVEMENT MARKING REMOVAL	EPOXY PAVEMENT MARKING - LETTERS AND SYMBOLS	EPOXY PAVEMENT MARKING - LINE 4 INCH	EPOXY PAVEMENT MARKING - LINE 8 INCH	EPOXY PAVEMENT MARKING - LINE 5 INCH	IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE), TEST LEVEL 3	IMPACT ATTENUATORS, TEMPORARY (FULLY REDIRECTIVE, NARROW), TEST LEVEL 3	IMPACT ATTENUATORS, RELOCATE (FULLY REDIRECTIVE, NARROW), TEST LEVEL 3	IMPACT ATTENUATORS, RELOCATE (NON-REDIRECTIVE), TEST LEVEL 3
	(SQ FT)	(FOOT)	(FOOT)		(FOOT)	(FOOT)	(SQ FT)	(SQ FT)	(FOOT)	(FOOT)	(FOOT)	(EACH)	(EACH)	(EACH)	(EACH)
1		64,645	4,189	15,940	26,577	3,178	13,569					18	2		
2	109	77,132	15,524	22,264	16,420	719	16,732							2	13
RESURFACING		34,321	24,879		8,326	2,944		1,000	446,804	41,679	119,608				
TOTAL	109	176,098	44,592	38,204	51,323	6,841	30,301	1,000	446,804	41,679	119,608	18	2	2	13

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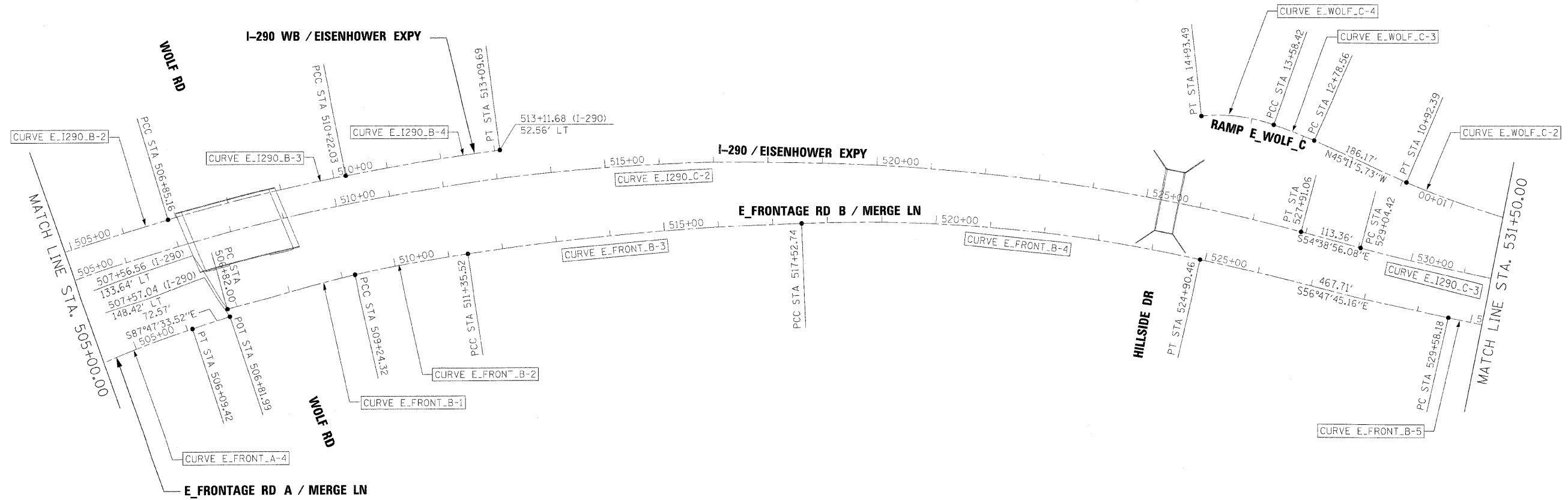
**benesch**

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**SCHEDULE OF QUANTITIES**

F.A.I. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	13031.1, ETC., 383BRS-5	COOK	298	27
CONTRACT NO. 60G52				
SCALE: N.T.S.	SHEET NO. 3	OF 3 SHEETS	STA.	TO STA.
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				





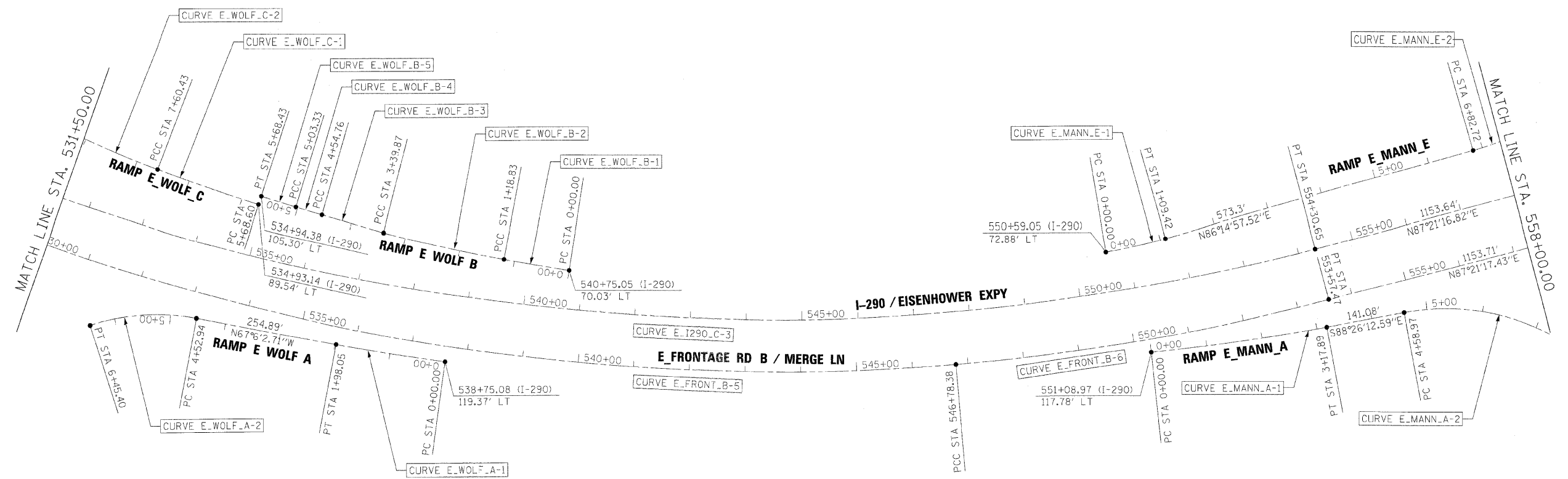
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**benesch**

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**ALIGNMENT PLAN**  
**I-290 MAINLINE STA 505+00 TO STA 531+50**  
 SCALE: 1"=100' SHEET NO. 2 OF 36 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	(3031.1, ETC., 3830)RS-5	COOK	298	29
CONTRACT NO. 60G52				
FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT				



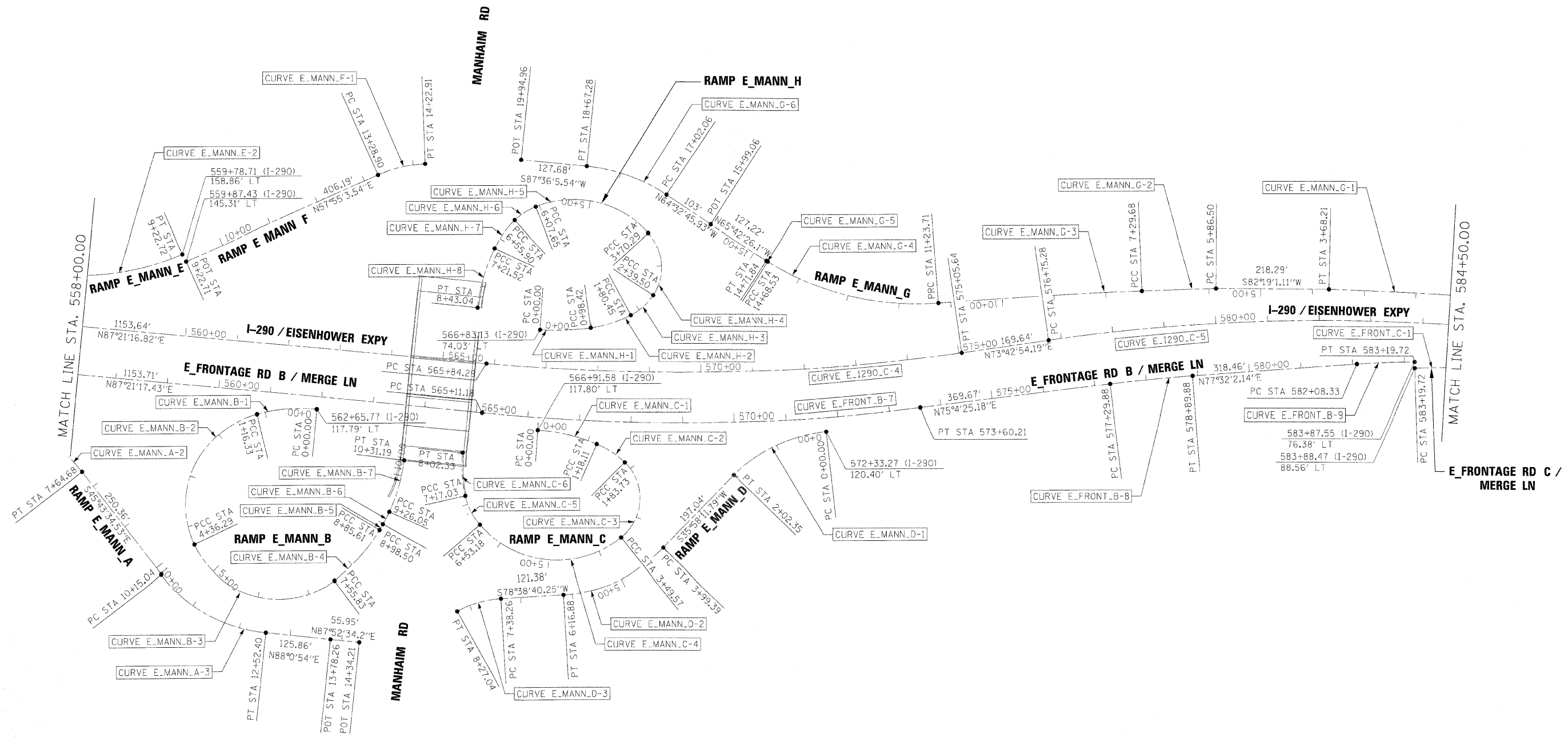
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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

ALIGNMENT PLAN			
I-290 MAINLINE STA 531+50 TO STA 558+00			
SCALE: 1"=100'	SHEET NO. 3 OF 36 SHEETS	STA.	TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	(3031.1, ETC., 3838)RS-5	COOK	298	30
CONTRACT NO. 60652				
FED. ROAD DIST. NO.   ILLINOIS FED. AID PROJECT				



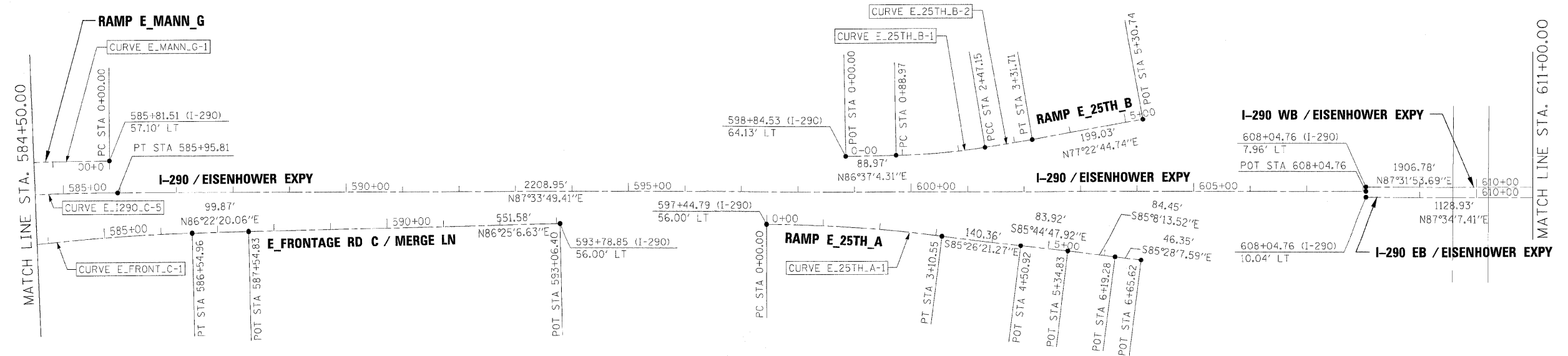
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PLOT DATE = 11/12/2009	DATE - 10/16/09	REVISED -

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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

ALIGNMENT PLAN			
I-290 MAINLINE STA 558+00 TO STA 584+50			
SCALE: 1"=100'	SHEET NO. 4 OF 36 SHEETS	STA.	TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	(3031.1, ETC., 3838)RS-5	COOK	298	31
CONTRACT NO. 60G52				
FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT				



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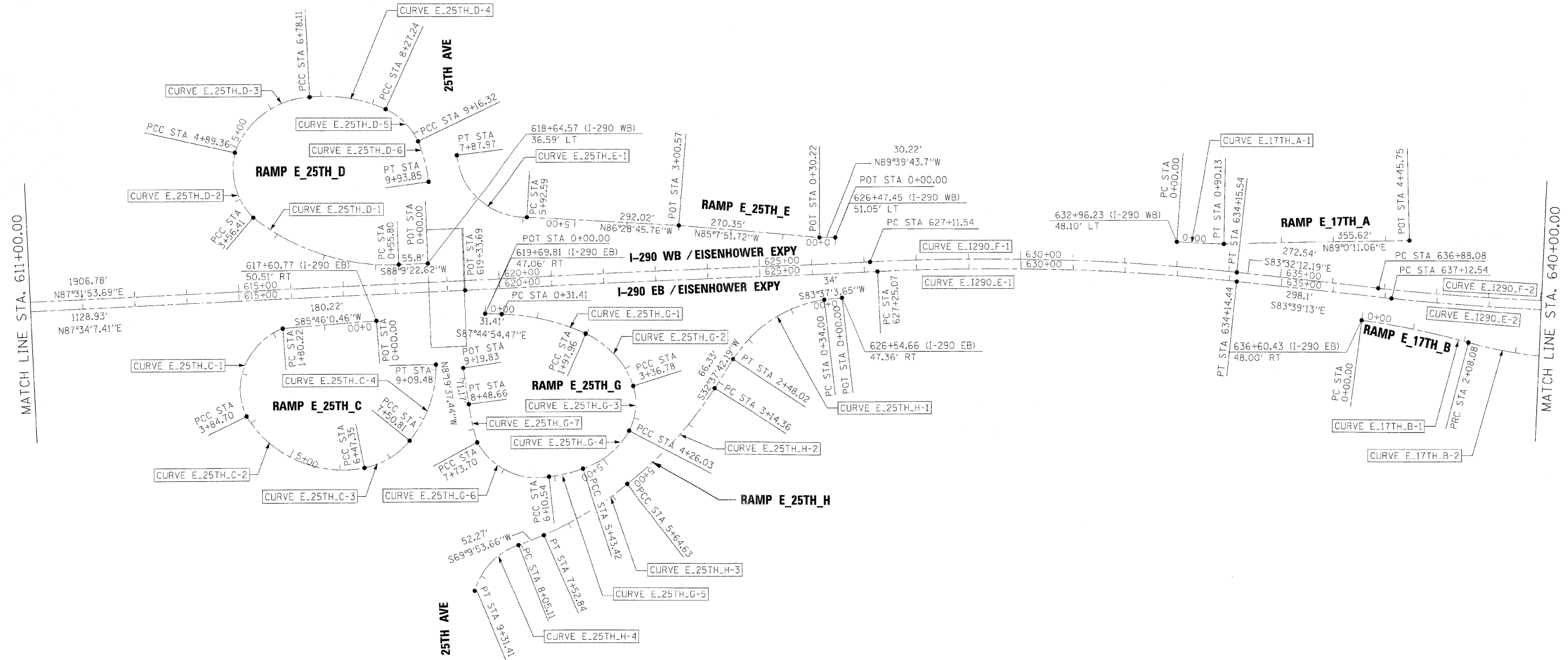
**benesch**

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

ALIGNMENT PLAN			
I-290 MAINLINE STA 584+50 TO STA 611+00			
SCALE: 1"=100'	SHEET NO. 5 OF 36 SHEETS	STA.	TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	(3031.1, ETC., 3838)RS-5	COOK	298	32
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 60052	





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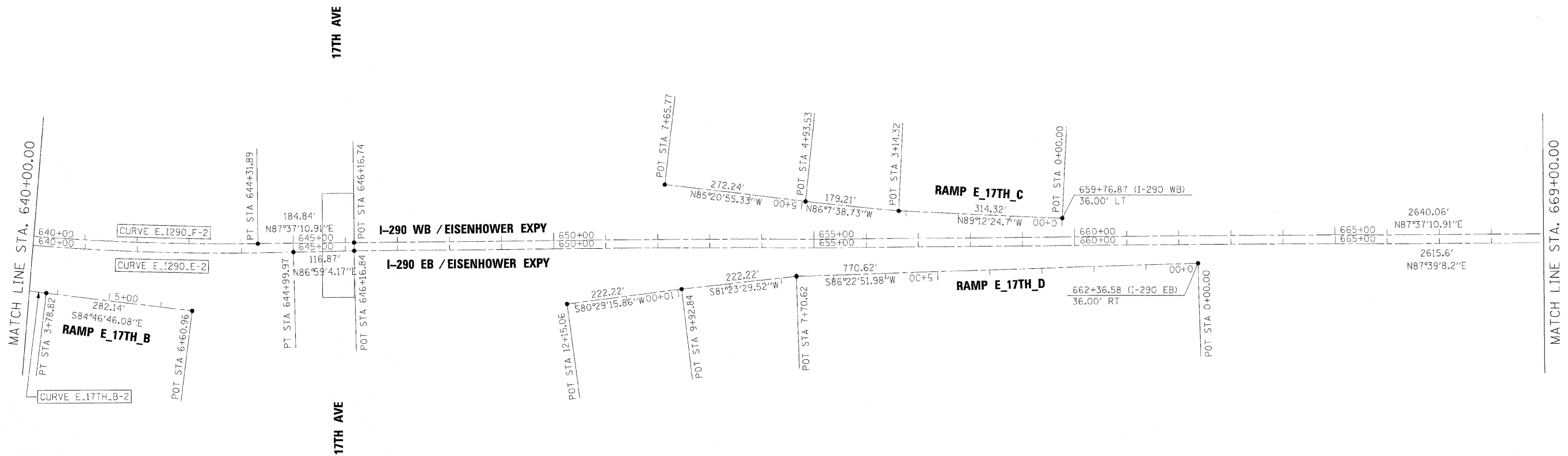
**benesch**

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**ALIGNMENT PLAN  
I-290 MAINLINE STA 611+00 TO STA 640+00**

SCALE: "1"=100' SHEET NO. 6 OF 36 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	(3031.1, ETC., 3838)RS-5	COOK	298	33
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 60G52	



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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

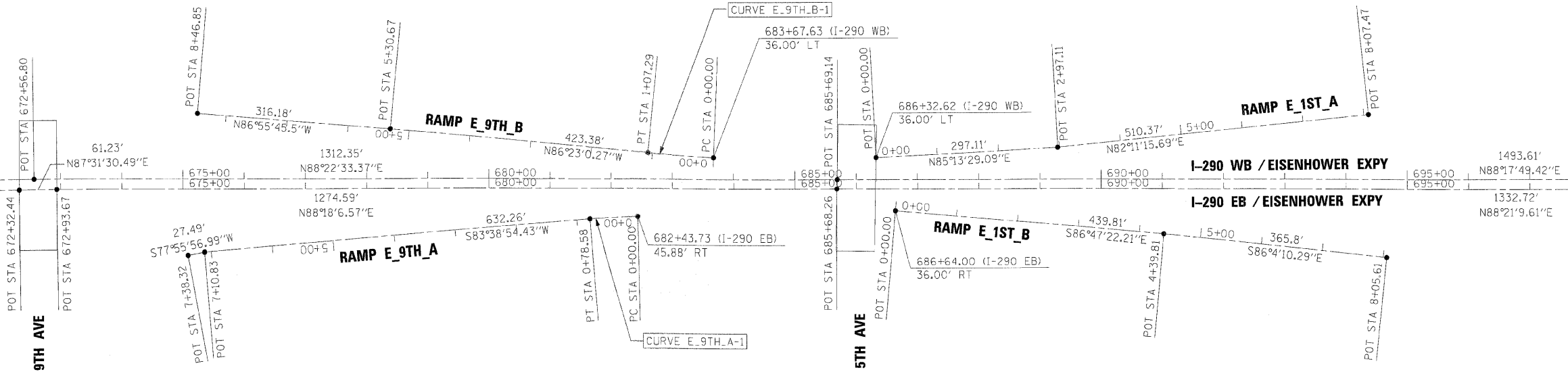
ALIGNMENT PLAN			
I-290 MAINLINE STA 640+00 TO STA 669+00			
SCALE: 1"=100'	SHEET NO. 7 OF 36 SHEETS	STA.	TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	(3031.1, ETC., 3838)RS-5	COOK	298	34
FED. ROAD DIST. NO.				ILLINOIS FED. AID PROJECT
CONTRACT NO. 60G52				

MATCH LINE STA. 669+00.00

9TH AVE

5TH AVE



MATCH LINE STA. 698+00.00

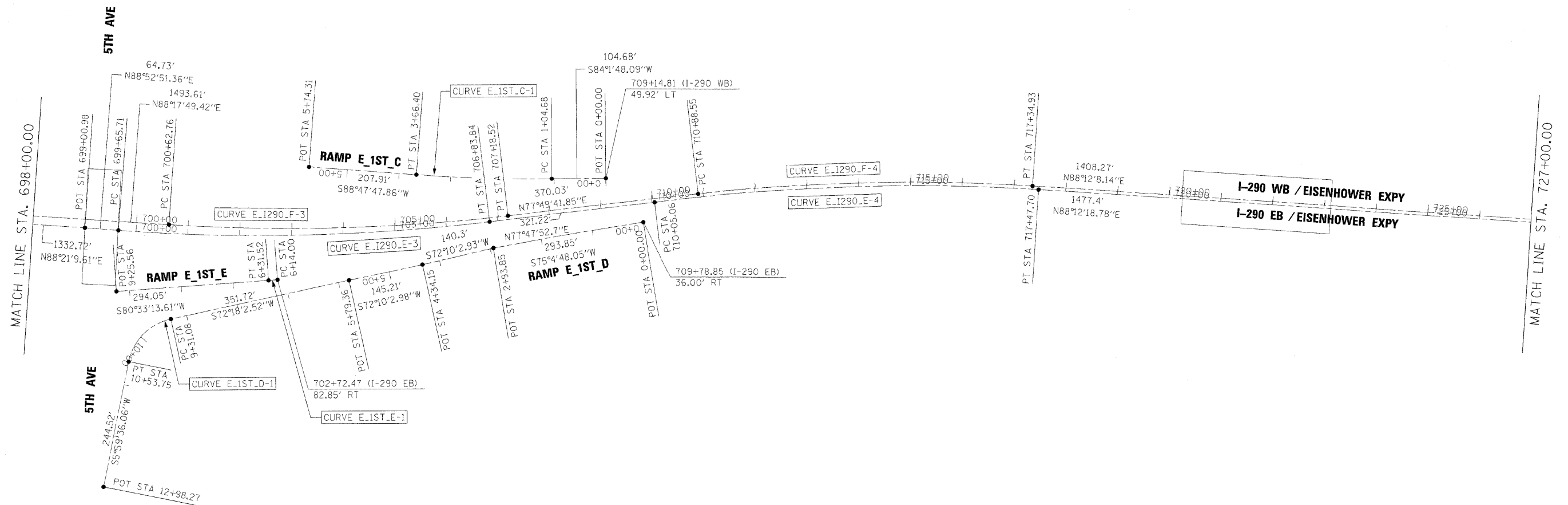
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PLOT DATE = 11/12/2009	DATE - 10/16/09	REVISED -

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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

ALIGNMENT PLAN			
I-290 MAINLINE STA 669+00 TO STA 698+00			
SCALE: 1"=100'	SHEET NO. 8 OF 36 SHEETS	STA.	TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	(3031.1, ETC., 3838)RS-5	COOK	298	35
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 60G52	



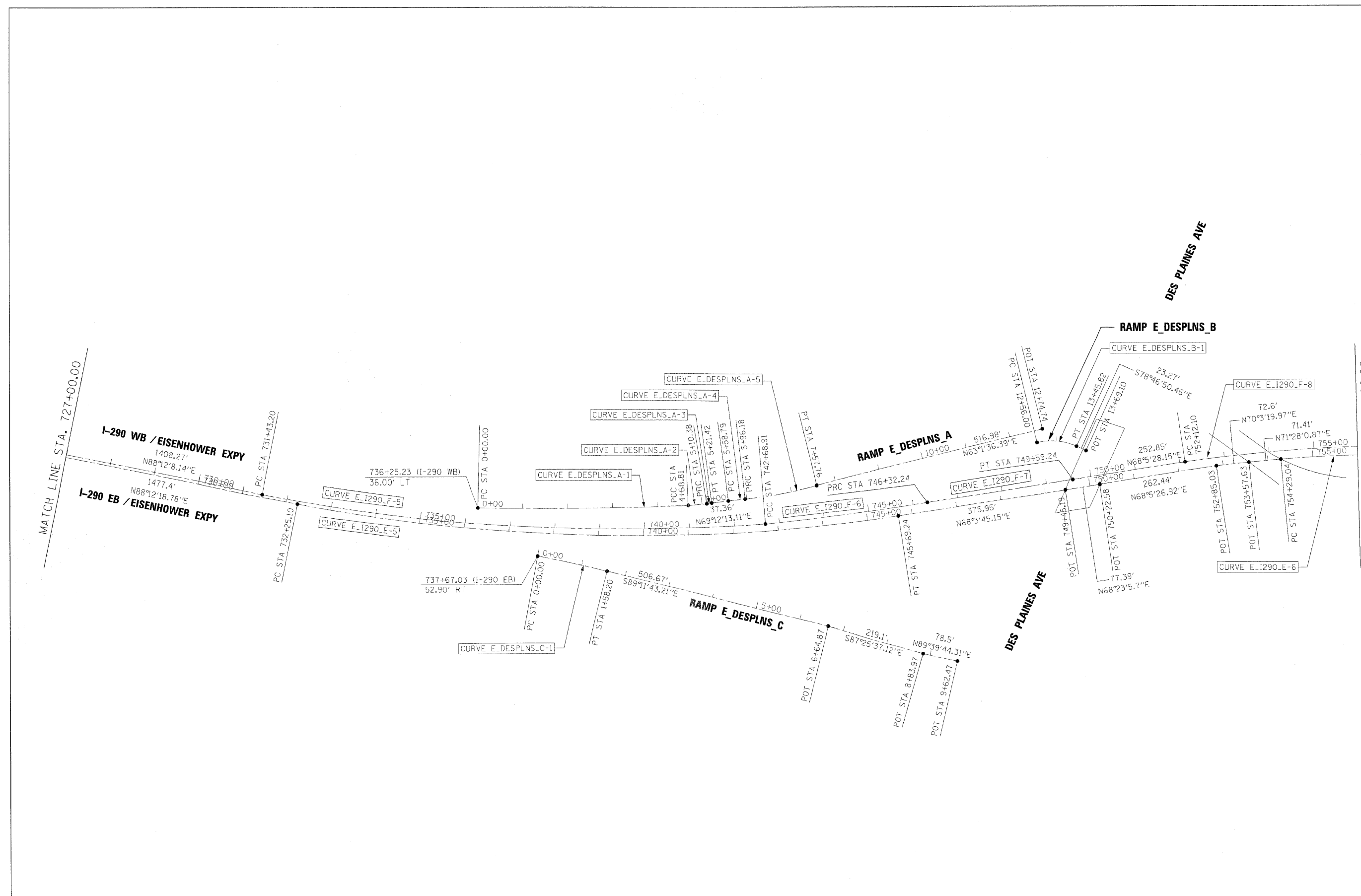
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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

ALIGNMENT PLAN			
I-290 MAINLINE STA 698+00 TO STA 727+00			
SCALE: 1"=100'	SHEET NO. 9	OF 36 SHEETS	STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	(3031.1, ETC., 3830RS-5	COOK	298	36
FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT	
			CONTRACT NO. 60G52	



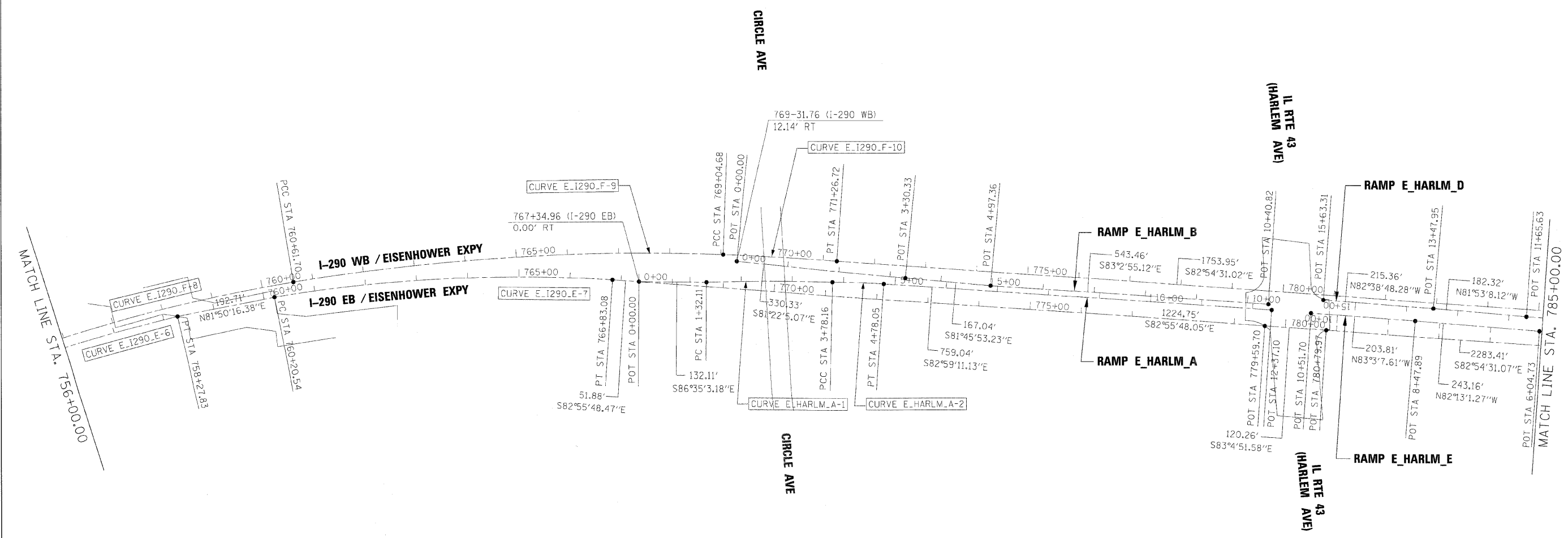
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PLOT DATE = 11/12/2009	DATE - 10/16/09	REVISED -

**benesch**

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

ALIGNMENT PLAN			
I-290 MAINLINE STA 727+00 TO STA 756+00			
SCALE: 1"=100'	SHEET NO. 10 OF 36 SHEETS	STA.	TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	(3031.1, ETC., 3838)RS-5	COOK	298	37
FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT			CONTRACT NO. 60652	



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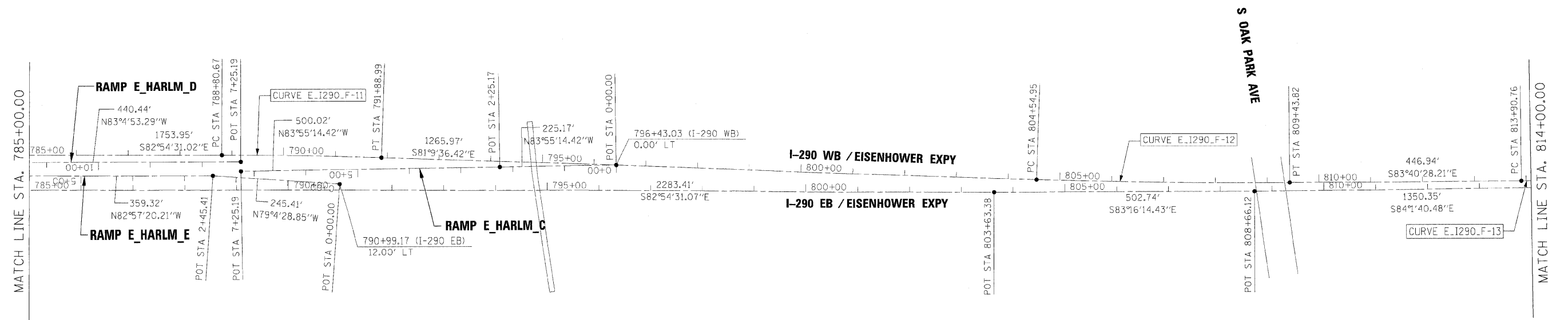
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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**ALIGNMENT PLAN  
I-290 MAINLINE STA 756+00 TO STA 785+00**

SCALE: 1"=100' SHEET NO. 11 OF 36 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	(303)1,1, ETC., 3838RS-5	COOK	298	38
FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT	
			CONTRACT NO. 60C52	



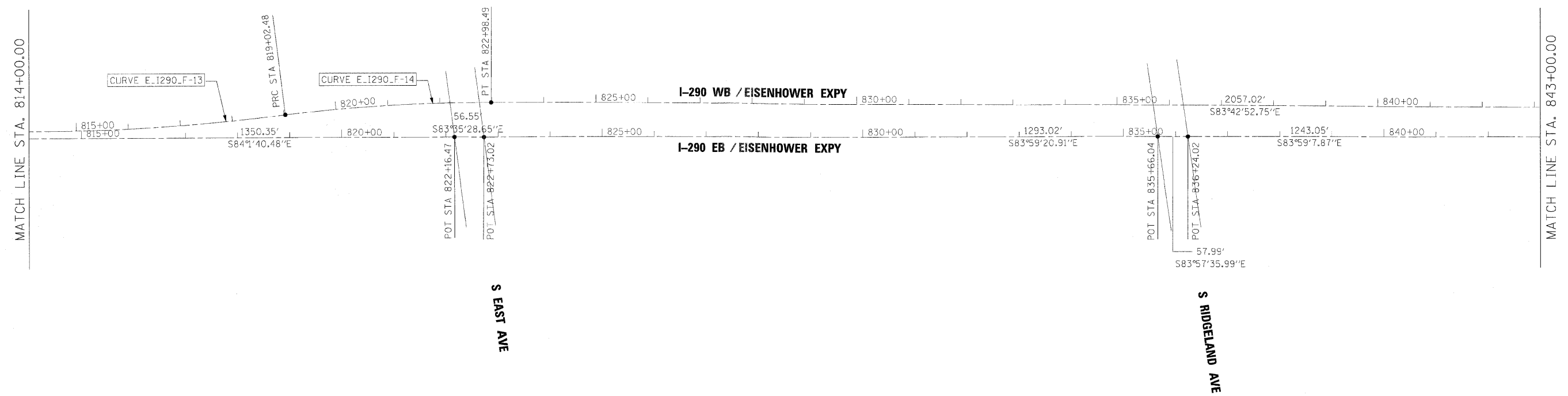
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PLOT DATE = 11/12/2009	DATE - 10/16/09	REVISED -

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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

ALIGNMENT PLAN			
I-290 MAINLINE STA 785+00 TO STA 814+00			
SCALE: 1"=100'	SHEET NO. 12 OF 36 SHEETS	STA.	TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	13031.1, ETC., 3838RS-5	COOK	298	39
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 60652	



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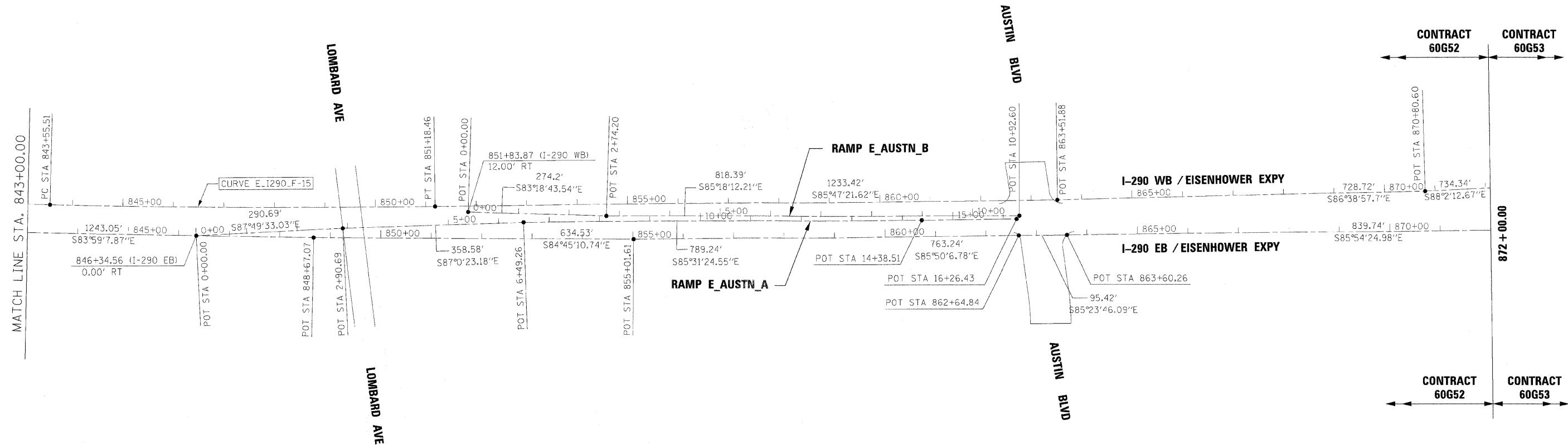
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**ALIGNMENT PLAN  
I-290 MAINLINE STA 814+00 TO STA 843+00**

SCALE: "1"=100' SHEET NO. 13 OF 36 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	(3031.1, ETC., 3838)RS-5	COOK	298	40
FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT	
			CONTRACT NO. 60G52	





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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

ALIGNMENT PLAN			
I-290 MAINLINE STA 843+00 TO POE			
SCALE: 1"=100'	SHEET NO. 14 OF 36 SHEETS	STA.	TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	(3031.1, ETC., 3838)RS-5	COOK	298	41
FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT			CONTRACT NO. 60G52	

**I-290 WB**

Curve Data

Curve E.I290.B-1  
 P.I. Station 486+17.44 N 1,896,979.8029 E 1,099,387.6438  
 Delta = 20° 39' 51.08" (LT)  
 Degree = 2° 13' 51.52"  
 Tangent = 468.2056  
 Length = 926.2389  
 Radius = 2,568.1908  
 External = 42.3303  
 Long Chord = 921.2271  
 Mid. Ord. = 41.6439  
 P.C. Station 481+49.23 N 1,897,158.8804 E 1,098,955.0380  
 P.T. Station 490+75.47 N 1,896,964.9087 E 1,099,855.6125  
 C.C. N 1,899,531.7997 E 1,099,937.3097  
 Back = S 67° 30' 46.28" E  
 Ahead = S 88° 10' 37.36" E  
 Chord Bear = S 77° 50' 41.82" E

Course from PT E.I290.B-1 to 56 S 86° 51' 10.53" E Dist 225.2444

Point 56 N 1,896,952.5430 E 1,100,080.5172 Sta 493+00.71

Course from 56 to PC E.I290.B-2 N 88° 56' 41.29" E Dist 496.7656

Curve Data

Curve E.I290.B-2  
 P.I. Station 502+41.59 N 1,896,969.8698 E 1,101,021.2324  
 Delta = 4° 51' 59.67" (RT)  
 Degree = 0° 32' 53.64"  
 Tangent = 444.1092  
 Length = 887.6844  
 Radius = 10,451.0000  
 External = 9.4318  
 Long Chord = 887.4175  
 Mid. Ord. = 9.4233  
 P.C. Station 497+97.48 N 1,896,961.6912 E 1,100,577.1985  
 P.T. Station 506+85.16 N 1,896,940.3489 E 1,101,464.3593  
 C.C. N 1,886,512.4635 E 1,100,769.6602  
 Back = N 88° 56' 41.29" E  
 Ahead = S 86° 11' 19.04" E  
 Chord Bear = S 88° 37' 18.88" E

Curve Data

Curve E.I290.B-3  
 P.I. Station 508+53.72 N 1,896,929.1444 E 1,101,632.5473  
 Delta = 5° 28' 31.59" (RT)  
 Degree = 1° 37' 31.48"  
 Tangent = 168.5607  
 Length = 336.8648  
 Radius = 3,525.0000  
 External = 4.0279  
 Long Chord = 336.7367  
 Mid. Ord. = 4.0233  
 P.C. Station 506+85.16 N 1,896,940.3489 E 1,101,464.3593  
 P.T. Station 510+22.03 N 1,896,901.9426 E 1,101,798.8986  
 C.C. N 1,893,423.1452 E 1,101,230.0454  
 Back = S 86° 11' 19.04" E  
 Ahead = S 80° 42' 47.45" E  
 Chord Bear = S 83° 27' 03.25" E

Curve Data

Curve E.I290.B-4  
 P.I. Station 511+65.91 N 1,896,878.7241 E 1,101,940.8900  
 Delta = 3° 32' 30.23" (RT)  
 Degree = 1° 13' 52.35"  
 Tangent = 143.8772  
 Length = 287.6627  
 Radius = 4,653.6168  
 External = 2.2236  
 Long Chord = 287.6169  
 Mid. Ord. = 2.2226  
 P.C. Station 510+22.03 N 1,896,901.9426 E 1,101,798.8986  
 P.T. Station 513+09.69 N 1,896,846.7785 E 1,102,081.1758  
 C.C. N 1,892,309.3213 E 1,101,047.9129  
 Back = S 80° 42' 47.45" E  
 Ahead = S 77° 10' 17.22" E  
 Chord Bear = S 78° 56' 32.34" E

**I-290 EB**

Curve Data

Curve E.I290.G-2  
 P.I. Station 492+34.53 N 1,896,677.2050 E 1,099,929.4215  
 Delta = 15° 36' 16.97" (LT)  
 Degree = 3° 55' 11.70"  
 Tangent = 200.2835  
 Length = 398.0879  
 Radius = 1,461.6582  
 External = 13.6581  
 Long Chord = 396.8587  
 Mid. Ord. = 13.5317  
 P.C. Station 490+34.25 N 1,896,749.7244 E 1,099,742.7281  
 P.T. Station 494+32.33 N 1,896,657.5789 E 1,100,128.7411  
 C.C. N 1,898,112.2025 E 1,100,271.9710  
 Back = S 68° 46' 18.38" E  
 Ahead = S 84° 22' 35.35" E  
 Chord Bear = S 76° 34' 26.86" E

Curve Data

Curve E.I290.G-3  
 P.I. Station 497+18.75 N 1,896,627.5805 E 1,100,413.5824  
 Delta = 23° 16' 51.11" (LT)  
 Degree = 4° 07' 15.66"  
 Tangent = 286.4166  
 Length = 564.9302  
 Radius = 1,390.3314  
 External = 29.1952  
 Long Chord = 561.0519  
 Mid. Ord. = 28.5948  
 P.C. Station 494+32.33 N 1,896,657.5789 E 1,100,128.7411  
 P.T. Station 499+97.26 N 1,896,712.6050 E 1,100,687.0881  
 C.C. N 1,898,040.2634 E 1,100,274.3602  
 Back = S 83° 59' 16.76" E  
 Ahead = N 72° 43' 52.14" E  
 Chord Bear = N 84° 22' 17.69" E

Course from PT E.I290.G-3 to PC E.I290.G-4 N 72° 43' 52.14" E Dist 127.1306

Curve Data

Curve E.I290.G-4  
 P.I. Station 501+88.09 N 1,896,769.2539 E 1,100,869.3158  
 Delta = 2° 10' 43.19" (LT)  
 Degree = 1° 42' 37.16"  
 Tangent = 63.6993  
 Length = 127.3832  
 Radius = 3,350.0000  
 External = 0.6056  
 Long Chord = 127.3755  
 Mid. Ord. = 0.6054  
 P.C. Station 501+24.39 N 1,896,750.3444 E 1,100,808.4879  
 P.T. Station 502+51.78 N 1,896,790.4621 E 1,100,929.3808  
 C.C. N 1,899,949.3342 E 1,099,814.0211  
 Back = N 72° 43' 52.14" E  
 Ahead = N 70° 33' 08.95" E  
 Chord Bear = N 71° 38' 30.54" E

Curve Data

Curve E.I290.G-5  
 P.I. Station 503+42.19 N 1,896,820.5649 E 1,101,014.6364  
 Delta = 7° 23' 24.82" (RT)  
 Degree = 4° 05' 33.20"  
 Tangent = 90.4141  
 Length = 180.5774  
 Radius = 1,400.0000  
 External = 2.9165  
 Long Chord = 180.4522  
 Mid. Ord. = 2.9104  
 P.C. Station 502+51.78 N 1,896,790.4621 E 1,100,929.3808  
 P.T. Station 504+32.35 N 1,896,839.4514 E 1,101,103.0559  
 C.C. N 1,895,470.3365 E 1,101,395.5013  
 Back = N 70° 33' 08.95" E  
 Ahead = N 77° 56' 33.78" E  
 Chord Bear = N 74° 14' 51.36" E

Course from PT E.I290.G-5 to 1534 N 3° 53' 43.99" W Dist 35.8852

Point 1534 N 1,896,875.2537 E 1,101,100.6179 Sta 504+68.24

FILE NAME =	DESIGNED - AJP	REVISED -	<b>benesch</b>	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>				<b>ALIGNMENT PLAN I-290 MAINLINE CURVE DATA</b>				F.A.I. RTE. 290	SECTION (3031.1, ETC., 383B)RS-5	COUNTY COOK	TOTAL SHEETS 298	SHEET NO. 42
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USER NAME = tblank	CHECKED - JMM	REVISED -														
PLOT DATE = 11/12/2009	DATE - 10/16/09	REVISED -														

I-290

Point 60 N 1,895,487.9128 E 1,097,931.7608 Sta 468+04.46

Course from 60 to PC E\_I290\_C-1 N 55° 58' 37.58" E Dist 1,349.9899

Curve Data

Curve E\_I290\_C-1  
 P.I. Station 484+23.14 N 1,896,393.6011 E 1,099,273.3424  
 Delta = 8° 04' 41.42" (RT)  
 Degree = 1° 30' 20.76"  
 Tangent = 268.6863  
 Length = 536.4821  
 Radius = 3,805.0894  
 External = 9.4745  
 Long Chord = 536.0379  
 Mid. Ord. = 9.4510  
 P.C. Station 481+54.45 N 1,896,243.2647 E 1,099,050.6514  
 P.T. Station 486+90.93 N 1,896,511.1524 E 1,099,514.9496  
 C.C. N 1,893,089.5530 E 1,101,179.6907  
 Back = N 55° 58' 37.58" E  
 Ahead = N 64° 03' 19.00" E  
 Chord Bear = N 60° 00' 58.29" E

Curve Data

Curve E\_I290\_C-2  
 P.I. Station 509+61.83 N 1,897,504.6793 E 1,101,556.9795  
 Delta = 61° 17' 44.92" (RT)  
 Degree = 1° 29' 41.90"  
 Tangent = 2,270.8989  
 Length = 4,100.1287  
 Radius = 3,832.5632  
 External = 622.2682  
 Long Chord = 3,907.3818  
 Mid. Ord. = 535.3473  
 P.C. Station 486+90.93 N 1,896,511.1524 E 1,099,514.9496  
 P.T. Station 527+91.06 N 1,896,190.7710 E 1,103,409.1746  
 C.C. N 1,893,064.8481 E 1,101,191.7106  
 Back = N 64° 03' 19.00" E  
 Ahead = S 54° 38' 56.08" E  
 Chord Bear = S 85° 17' 48.54" E

Course from PT E\_I290\_C-2 to PC E\_I290\_C-3 S 54° 38' 56.08" E Dist 113.3555

Curve Data

Curve E\_I290\_C-3  
 P.I. Station 542+15.96 N 1,895,366.3477 E 1,104,571.3507  
 Delta = 37° 59' 47.10" (LT)  
 Degree = 1° 30' 14.66"  
 Tangent = 1,311.5399  
 Length = 2,526.2351  
 Radius = 3,809.3752  
 External = 219.4554  
 Long Chord = 2,480.1973  
 Mid. Ord. = 207.5014  
 P.C. Station 529+04.42 N 1,896,125.1852 E 1,103,501.6299  
 P.T. Station 554+30.65 N 1,895,426.8796 E 1,105,881.4929  
 C.C. N 1,899,232.1954 E 1,105,705.6777  
 Back = S 54° 38' 56.08" E  
 Ahead = N 87° 21' 16.82" E  
 Chord Bear = S 73° 38' 49.63" E

Course from PT E\_I290\_C-3 to PC E\_I290\_C-4 N 87° 21' 16.82" E Dist 1,153.6351

I-290

Curve Data

Curve E\_I290\_C-4  
 P.I. Station 570+47.15 N 1,895,501.4865 E 1,107,496.2716  
 Delta = 13° 38' 22.62" (LT)  
 Degree = 1° 28' 49.38"  
 Tangent = 462.8662  
 Length = 921.3564  
 Radius = 3,870.3310  
 External = 27.5796  
 Long Chord = 919.1824  
 Mid. Ord. = 27.3845  
 P.C. Station 565+84.29 N 1,895,480.1237 E 1,107,033.8986  
 P.T. Station 575+05.64 N 1,895,631.2809 E 1,107,940.5671  
 C.C. N 1,899,346.3304 E 1,106,855.2701  
 Back = N 87° 21' 16.82" E  
 Ahead = N 73° 42' 54.19" E  
 Chord Bear = N 80° 32' 05.50" E

Course from PT E\_I290\_C-4 to PC E\_I290\_C-5 N 73° 42' 54.19" E Dist 169.6419

Curve Data

Curve E\_I290\_C-5  
 P.I. Station 581+37.80 N 1,895,808.5470 E 1,108,547.3614  
 Delta = 13° 50' 55.21" (RT)  
 Degree = 1° 30' 15.97"  
 Tangent = 462.5152  
 Length = 920.5226  
 Radius = 3,808.4566  
 External = 27.9821  
 Long Chord = 918.2835  
 Mid. Ord. = 27.7780  
 P.C. Station 576+75.28 N 1,895,678.8510 E 1,108,103.4028  
 P.T. Station 585+95.81 N 1,895,828.2077 E 1,109,009.4586  
 C.C. N 1,892,023.1935 E 1,109,171.3493  
 Back = N 73° 42' 54.19" E  
 Ahead = N 87° 33' 49.41" E  
 Chord Bear = N 80° 38' 21.80" E

Course from PT E\_I290\_C-5 to 61 N 87° 33' 49.41" E Dist 2,208.9483

Point 61 N 1,895,922.1061 E 1,111,216.4103 Sta 608+04.76

FILE NAME =	DESIGNED - AJP	REVISED -	<b>benesch</b>	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>ALIGNMENT PLAN I-290 MAINLINE CURVE DATA</b>		F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
...\\expln_ABC_C2_290_ML_Data.exalignr16.dgn	DRAWN - TMB	REVISED -			290	(3031.1, ETC., 3838RS-5	COOK	298	43		
USER NAME = tblank	CHECKED - JMM	REVISED -			CONTRACT NO. 60G52						
PLOT DATE = 11/12/2009	DATE = 10/16/09	REVISED -			SCALE: N.T.S.	SHEET NO. 16 OF 36 SHEETS	STA. TO STA.	FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT		

**I-290 EB**

Point 120 N 1,895,912.0746 E 1,111,216.8362 Sta 608+04.76

Course from 120 to 121 N 87° 34' 07.41" E Dist 216.5538

Point 121 N 1,895,921.2610 E 1,111,433.1952 Sta 610+21.31

Course from 121 to 122 N 87° 34' 07.41" E Dist 912.3746

Point 122 N 1,895,959.9649 E 1,112,344.7484 Sta 619+33.69

Course from 122 to PC E.I290.E-1 N 87° 34' 08.73" E Dist 791.3793

**Curve Data**

Curve E.I290.E-1  
 P.I. Station = 630+70.43 N 1,896,008.1792 E 1,113,480.4641  
 Delta = 8° 46' 38.27" (RT)  
 Degree = 1° 16' 23.66"  
 Tangent = 345.3593  
 Length = 689.3673  
 Radius = 4,500.0000  
 External = 13.2331  
 Long Chord = 688.6935  
 Mid. Ord. = 13.1943  
 P.C. Station = 627+25.07 N 1,895,993.5309 E 1,113,135.4155  
 P.T. Station = 634+14.44 N 1,895,970.0035 E 1,113,823.7070  
 C.C. = N 1,891,497.5805 E 1,113,326.2813  
 Back = N 87° 34' 08.73" E  
 Ahead = S 83° 39' 13.00" E  
 Chord Bear = S 88° 02' 32.13" E

Course from PT E.I290.E-1 to PC E.I290.E-2 S 83° 39' 13.00" E Dist 298.1027

**Curve Data**

Curve E.I290.E-2  
 P.I. Station = 641+07.18 N 1,895,893.4276 E 1,114,512.2115  
 Delta = 9° 37' 45.20" (LT)  
 Degree = 1° 13' 22.29"  
 Tangent = 394.6471  
 Length = 787.4356  
 Radius = 4,685.3978  
 External = 16.5910  
 Long Chord = 786.5092  
 Mid. Ord. = 16.5325  
 P.C. Station = 637+12.54 N 1,895,937.0515 E 1,114,119.9828  
 P.T. Station = 644+99.97 N 1,895,916.0270 E 1,114,906.2110  
 C.C. = N 1,900,593.7362 E 1,114,637.9022  
 Back = S 83° 39' 13.00" E  
 Ahead = N 86° 43' 01.81" E  
 Chord Bear = S 88° 28' 05.60" E

Course from PT E.I290.E-2 to 123 N 86° 59' 04.17" E Dist 116.8657

Point 123 N 1,895,922.1749 E 1,115,022.9149 Sta 646+16.84

Course from 123 to 124 N 87° 39' 08.20" E Dist 2,615.6033

Point 124 N 1,896,029.3206 E 1,117,636.3226 Sta 672+32.44

Course from 124 to 125 N 87° 31' 30.49" E Dist 61.2265

Point 125 N 1,896,031.9644 E 1,117,697.4920 Sta 672+93.67

Course from 125 to 126 N 88° 18' 06.57" E Dist 1,274.5891

Point 126 N 1,896,069.7361 E 1,118,971.5213 Sta 685+68.26

Course from 126 to 127 N 88° 21' 09.61" E Dist 1,332.7237

Point 127 N 1,896,108.0484 E 1,120,303.6943 Sta 699+00.98

Course from 127 to PC E.I290.E-3 N 88° 52' 51.36" E Dist 64.7290

**I-290 EB**

**Curve Data**

Curve E.I290.E-3  
 P.I. Station = 703+25.94 N 1,896,116.3478 E 1,120,728.5679  
 Delta = 11° 15' 59.42" (LT)  
 Degree = 1° 34' 07.93"  
 Tangent = 360.2257  
 Length = 718.1284  
 Radius = 3,652.0395  
 External = 17.7228  
 Long Chord = 716.9720  
 Mid. Ord. = 17.6372  
 P.C. Station = 699+65.71 N 1,896,109.3126 E 1,120,368.4109  
 P.T. Station = 706+83.84 N 1,896,193.6124 E 1,121,080.4098  
 C.C. = N 1,899,760.6556 E 1,120,297.0860  
 Back = N 88° 52' 51.36" E  
 Ahead = N 77° 36' 51.94" E  
 Chord Bear = N 83° 14' 51.65" E

Course from PT E.I290.E-3 to PC E.I290.E-4 N 77° 47' 52.70" E Dist 321.2188

**Curve Data**

Curve E.I290.E-4  
 P.I. Station = 713+77.60 N 1,896,347.0502 E 1,121,756.9599  
 Delta = 11° 22' 05.34" (RT)  
 Degree = 1° 31' 50.79"  
 Tangent = 372.5428  
 Length = 742.6396  
 Radius = 3,742.9232  
 External = 18.4944  
 Long Chord = 741.4221  
 Mid. Ord. = 18.4034  
 P.C. Station = 710+05.06 N 1,896,261.5051 E 1,121,394.3718  
 P.T. Station = 717+47.70 N 1,896,359.4465 E 1,122,129.2964  
 C.C. = N 1,892,618.5959 E 1,122,253.8408  
 Back = N 76° 43' 30.00" E  
 Ahead = N 88° 05' 35.34" E  
 Chord Bear = N 82° 24' 32.67" E

Course from PT E.I290.E-4 to PC E.I290.E-5 N 88° 12' 18.78" E Dist 1,477.3978

**Curve Data**

Curve E.I290.E-5  
 P.I. Station = 739+04.05 N 1,896,429.1131 E 1,124,284.5218  
 Delta = 19° 57' 46.13" (LT)  
 Degree = 1° 29' 06.60"  
 Tangent = 678.9556  
 Length = 1,344.1464  
 Radius = 3,857.8685  
 External = 59.2899  
 Long Chord = 1,337.3579  
 Mid. Ord. = 58.3925  
 P.C. Station = 732+25.10 N 1,896,405.7182 E 1,123,605.9694  
 P.T. Station = 745+69.24 N 1,896,682.7671 E 1,124,914.3157  
 C.C. = N 1,900,261.2958 E 1,123,473.0379  
 Back = N 88° 01' 31.28" E  
 Ahead = N 68° 03' 45.15" E  
 Chord Bear = N 78° 02' 38.21" E

Course from PT E.I290.E-5 to 128 N 68° 03' 45.15" E Dist 375.9525

Point 128 N 1,896,823.2208 E 1,125,263.0463 Sta 749+45.19

Course from 128 to 129 N 68° 23' 05.70" E Dist 77.3881

Point 129 N 1,896,851.7282 E 1,125,334.9924 Sta 750+22.58

Course from 129 to 130 N 68° 05' 26.92" E Dist 262.4444

Point 130 N 1,896,949.6558 E 1,125,578.4821 Sta 752+85.03

Course from 130 to 131 N 70° 03' 19.97" E Dist 72.6022

Point 131 N 1,896,974.4211 E 1,125,646.7300 Sta 753+57.63

Course from 131 to PC E.I290.E-6 N 71° 28' 00.87" E Dist 71.4099

FILE NAME =	DESIGNED - AJP	REVISED -	<b>benesch</b>	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>ALIGNMENT PLAN I-290 MAINLINE CURVE DATA</b>			F.A.I. RTE. 290	SECTION (3031.1, ETC., 3838RS-5	COUNTY COOK	TOTAL SHEETS 298	SHEET NO. 44
...\\exp1h_abc_c2_290_ml_data_exalign_17.cgn	DRAWN - TMB	REVISED -			SCALE: N.T.S.	SHEET NO. 17 OF 36 SHEETS	STA.	TO STA.	CONTRACT NO. 60G52		FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT
USER NAME = tbi:ank	CHECKED - JMM	REVISED -										
PLOT DATE = 11/12/2009	DATE = 10/16/09	REVISED -										

**I-290 EB**

Curve Data

Curve E.I290.E-6  
 P.I. Station = 756+28.74 N 1,897,058.2849 E 1,125,904.5411  
 Delta = 7° 47' 26.57" (RT)  
 Degree = 1° 57' 12.93"  
 Tangent = 199.7023  
 Length = 398.7891  
 Radius = 2,932.8414  
 External = 6.7912  
 Long Chord = 398.4819  
 Mid. Ord. = 6.7755  
 P.C. Station = 754+29.04 N 1,896,997.1189 E 1,125,714.4366  
 P.T. Station = 758+27.83 N 1,897,093.1167 E 1,126,101.1823  
 C.C. = N 1,894,205.2311 E 1,126,612.7246  
 Back = N 72° 09' 52.04" E  
 Ahead = N 79° 57' 18.61" E  
 Chord Bear = N 76° 03' 35.33" E

Course from PT E.I290.E-6 to PC E.I290.E-7 N 81° 50' 16.38" E Dist 192.7087

Curve Data

Curve E.I290.E-7  
 P.I. Station = 763+53.27 N 1,897,157.1391 E 1,126,622.6485  
 Delta = 13° 09' 20.66" (RT)  
 Degree = 1° 59' 08.29"  
 Tangent = 332.7355  
 Length = 662.5448  
 Radius = 2,885.5107  
 External = 19.1209  
 Long Chord = 661.0904  
 Mid. Ord. = 18.9951  
 P.C. Station = 760+20.54 N 1,897,120.4764 E 1,126,291.9390  
 P.T. Station = 766+83.08 N 1,897,117.5706 E 1,126,953.0229  
 C.C. = N 1,894,252.5356 E 1,126,609.8814  
 Back = N 83° 40' 26.30" E  
 Ahead = S 83° 10' 13.04" E  
 Chord Bear = S 89° 44' 53.37" E

Course from PT E.I290.E-7 to 132 S 82° 55' 48.47" E Dist 51.8780

**I-290 EB**

Point 132 N 1,897,111.1855 E 1,127,004.5065 Sta 767+34.96  
 Course from 132 to 133 S 82° 55' 48.05" E Dist 287.6849  
 Point 133 N 1,897,075.7768 E 1,127,290.0040 Sta 770+22.64  
 Course from 133 to 134 S 82° 55' 48.05" E Dist 196.2104  
 Point 134 N 1,897,051.6269 E 1,127,484.7225 Sta 772+18.85  
 Course from 134 to 135 S 82° 55' 48.05" E Dist 740.8502  
 Point 135 N 1,896,960.4418 E 1,128,219.9396 Sta 779+59.70  
 Course from 135 to 136 S 83° 04' 51.58" E Dist 120.2647  
 Point 136 N 1,896,945.9540 E 1,128,339.3285 Sta 780+79.97  
 Course from 136 to 137 S 82° 54' 31.07" E Dist 949.2995  
 Point 137 N 1,896,828.7611 E 1,129,281.3664 Sta 790+29.27  
 Course from 137 to 138 S 82° 54' 31.07" E Dist 456.4740  
 Point 138 N 1,896,772.4085 E 1,129,734.3486 Sta 794+85.74  
 Course from 138 to 139 S 82° 54' 31.07" E Dist 279.0489  
 Point 139 N 1,896,737.9593 E 1,130,011.2629 Sta 797+64.79  
 Course from 139 to 140 S 82° 54' 31.07" E Dist 253.8912  
 Point 140 N 1,896,706.6159 E 1,130,263.2120 Sta 800+18.68  
 Course from 140 to 141 S 82° 54' 31.07" E Dist 344.6946  
 Point 141 N 1,896,664.0627 E 1,130,605.2699 Sta 803+63.38  
 Course from 141 to 142 S 83° 16' 14.43" E Dist 502.7435  
 Point 142 N 1,896,605.1517 E 1,131,104.5500 Sta 808+66.12  
 Course from 142 to 143 S 84° 01' 40.48" E Dist 1,350.3536  
 Point 143 N 1,896,464.6555 E 1,132,447.5748 Sta 822+16.47  
 Course from 143 to 144 S 83° 35' 28.65" E Dist 56.5475  
 Point 144 N 1,896,458.3437 E 1,132,503.7689 Sta 822+73.02  
 Course from 144 to 145 S 83° 59' 20.91" E Dist 1,293.0157  
 Point 145 N 1,896,322.9431 E 1,133,789.6757 Sta 835+66.04  
 Course from 145 to 146 S 83° 57' 35.99" E Dist 57.9860  
 Point 146 N 1,896,316.8416 E 1,133,847.3399 Sta 836+24.02  
 Course from 146 to 147 S 83° 59' 07.87" E Dist 1,243.0504  
 Point 147 N 1,896,186.5951 E 1,135,083.5478 Sta 848+67.07  
 Course from 147 to 148 S 84° 45' 10.74" E Dist 634.5309  
 Point 148 N 1,896,128.5674 E 1,135,715.4198 Sta 855+01.61  
 Course from 148 to 149 S 85° 50' 06.78" E Dist 763.2362  
 Point 149 N 1,896,073.1372 E 1,136,476.6405 Sta 862+64.84  
 Course from 149 to 150 S 85° 23' 46.09" E Dist 95.4162  
 Point 150 N 1,896,065.4785 E 1,136,571.7489 Sta 863+60.26  
 Course from 150 to 151 S 85° 54' 24.98" E Dist 839.7429  
 Point 151 N 1,896,005.5405 E 1,137,409.3500 Sta 872+00.00  
 Course from 151 to PC E.I290.E-8 S 85° 59' 55.70" E Dist 496.1552

FILE NAME =	DESIGNED - AJP	REVISED -
...\\expln_ABC.C2.290.ML.Data.exalign-18.cgn	DRAWN - TMB	REVISED -
USER NAME = tbi:ank	CHECKED - JMM	REVISED -
PLDT DATE = 11/12/2009	DATE - 10/16/09	REVISED -

**benesch**

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

ALIGNMENT PLAN	
I-290 MAINLINE CURVE DATA	
SCALE: N.T.S.	SHEET NO. 18 OF 36 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	(3031.1, ETC., 3838)RS-5	COOK	298	45
FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT	
CONTRACT NO. 60G52				

**I-290 WB**

Point 300 N 1,895,930.0584 E 1,111,216.0727 Sta 608+04.76

Course from 300 to PC E.I290.F-1 N 87° 31' 53.69" E Dist 1,906.7833

**Curve Data**

Curve E.I290.F-1  
 P.I. Station = 630+64.26 N 1,896,027.3720 E 1,113,473.4742  
 Delta = 8° 55' 54.11" (RT)  
 Degree = 1° 16' 07.34"  
 Tangent = 352.7147  
 Length = 704.0003  
 Radius = 4,516.0780  
 External = 13.7529  
 Long Chord = 703.2877  
 Mid. Ord. = 13.7112  
 P.C. Station = 627+11.54 N 1,896,012.1811 E 1,113,121.0867  
 P.T. Station = 634+15.54 N 1,895,987.6682 E 1,113,823.9471  
 C.C. = N 87° 31' 53.69" E  
 Back = N 87° 31' 53.69" E  
 Ahead = S 83° 32' 12.19" E  
 Chord Bear = S 88° 00' 09.25" E

Course from PT E.I290.F-1 to PC E.I290.F-2 S 83° 32' 12.19" E Dist 272.5398

**Curve Data**

Curve E.I290.F-2  
 P.I. Station = 640+60.73 N 1,895,915.0422 E 1,114,465.0301  
 Delta = 8° 50' 36.90" (LT)  
 Degree = 1° 11' 20.26"  
 Tangent = 372.6439  
 Length = 743.8075  
 Radius = 4,818.9780  
 External = 14.3865  
 Long Chord = 743.0694  
 Mid. Ord. = 14.3437  
 P.C. Station = 636+88.08 N 1,895,956.9894 E 1,114,094.7547  
 P.T. Station = 644+31.89 N 1,895,930.5189 E 1,114,837.3525  
 C.C. = N 87° 37' 10.91" E  
 Back = S 83° 32' 12.19" E  
 Ahead = N 87° 37' 10.91" E  
 Chord Bear = S 87° 57' 30.64" E

Course from PT E.I290.F-2 to 301 N 87° 37' 10.91" E Dist 184.8444

Point 301 N 1,895,938.1959 E 1,115,022.0373 Sta 646+16.74

Course from 301 to 302 N 87° 37' 10.91" E Dist 2,640.0615

Point 302 N 1,896,047.8434 E 1,117,659.8209 Sta 672+56.80

Course from 302 to 303 N 88° 22' 33.37" E Dist 1,312.3463

Point 303 N 1,896,085.0372 E 1,118,971.6400 Sta 685+69.14

Course from 303 to PC E.I290.F-3 N 88° 17' 49.42" E Dist 1,493.6121

**Curve Data**

Curve E.I290.F-3  
 P.I. Station = 703+91.55 N 1,896,139.1946 E 1,120,793.2436  
 Delta = 10° 28' 07.57" (LT)  
 Degree = 1° 35' 47.14"  
 Tangent = 328.7964  
 Length = 655.7624  
 Radius = 3,589.0000  
 External = 15.0294  
 Long Chord = 654.8506  
 Mid. Ord. = 14.9667  
 P.C. Station = 700+62.76 N 1,896,129.4236 E 1,120,464.5924  
 P.T. Station = 707+18.52 N 1,896,208.5187 E 1,121,114.6487  
 C.C. = N 88° 17' 49.42" E  
 Back = N 88° 17' 49.42" E  
 Ahead = N 77° 49' 41.85" E  
 Chord Bear = N 83° 03' 45.64" E

Course from PT E.I290.F-3 to PC E.I290.F-4 N 77° 49' 41.85" E Dist 370.0279

**I-290 WB**

**Curve Data**

Curve E.I290.F-4  
 P.I. Station = 714+12.62 N 1,896,354.8654 E 1,121,793.1510  
 Delta = 10° 22' 26.28" (RT)  
 Degree = 1° 36' 17.73"  
 Tangent = 324.0777  
 Length = 646.3838  
 Radius = 3,570.0000  
 External = 14.6794  
 Long Chord = 645.5013  
 Mid. Ord. = 14.6193  
 P.C. Station = 710+88.55 N 1,896,286.5362 E 1,121,476.3584  
 P.T. Station = 717+34.93 N 1,896,365.0322 E 1,122,117.0692  
 C.C. = N 83° 00' 55.00" E  
 Back = N 77° 49' 41.85" E  
 Ahead = N 88° 12' 08.14" E  
 Chord Bear = N 83° 00' 55.00" E

Course from PT E.I290.F-4 to PC E.I290.F-5 N 88° 12' 08.14" E Dist 1,408.2717

**Curve Data**

Curve E.I290.F-5  
 P.I. Station = 737+09.83 N 1,896,425.2904 E 1,124,091.0484  
 Delta = 16° 11' 11.81" (LT)  
 Degree = 1° 26' 16.45"  
 Tangent = 566.6289  
 Length = 1,125.7104  
 Radius = 3,984.6786  
 External = 40.0862  
 Long Chord = 1,121.9706  
 Mid. Ord. = 39.6870  
 P.C. Station = 731+43.20 N 1,896,409.2115 E 1,123,524.6477  
 P.T. Station = 742+68.91 N 1,896,598.6255 E 1,124,630.5141  
 C.C. = N 80° 16' 50.27" E  
 Back = N 88° 22' 26.18" E  
 Ahead = N 72° 11' 14.37" E  
 Chord Bear = N 80° 16' 50.27" E

**Curve Data**

Curve E.I290.F-6  
 P.I. Station = 744+50.64 N 1,896,657.2491 E 1,124,802.5261  
 Delta = 3° 43' 50.11" (LT)  
 Degree = 1° 01' 36.43"  
 Tangent = 181.7275  
 Length = 363.3265  
 Radius = 5,580.1085  
 External = 2.9584  
 Long Chord = 363.2623  
 Mid. Ord. = 2.9568  
 P.C. Station = 742+68.91 N 1,896,598.6255 E 1,124,630.5141  
 P.T. Station = 746+32.24 N 1,896,726.9404 E 1,124,970.3593  
 C.C. = N 901,880.4135 E 1,122,830.4232  
 Back = N 71° 10' 49.19" E  
 Ahead = N 67° 26' 59.08" E  
 Chord Bear = N 69° 18' 54.14" E

**Curve Data**

Curve E.I290.F-7  
 P.I. Station = 747+95.74 N 1,896,787.8134 E 1,125,122.1093  
 Delta = 0° 21' 27.56" (RT)  
 Degree = 0° 06' 33.74"  
 Tangent = 163.5041  
 Length = 327.0070  
 Radius = 52,385.8460  
 External = 0.2552  
 Long Chord = 327.0065  
 Mid. Ord. = 0.2552  
 P.C. Station = 746+32.24 N 1,896,726.9404 E 1,124,970.3593  
 P.T. Station = 749+59.24 N 1,896,847.7379 E 1,125,274.2363  
 C.C. = N 1,848,107.0350 E 1,144,473.7347  
 Back = N 68° 08' 32.35" E  
 Ahead = N 68° 29' 59.91" E  
 Chord Bear = N 68° 19' 16.13" E

Course from PT E.I290.F-7 to PC E.I290.F-8 N 68° 05' 28.15" E Dist 252.8502

FILE NAME =	DESIGNED - AJP	REVISED -	<b>benesch</b>	<b>ALIGNMENT PLAN</b>				F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
...\\expln\ABC\C2.290.M...Data\exalignr...19.dgn	DRAWN - TMB	REVISED -		<b>I-290 MAINLINE CURVE DATA</b>				290	(3031.1, ETC., 3838RS-5	COOK	298	46
USER NAME = tbenk	CHECKED - JMM	REVISED -		SCALE: N.T.S. SHEET NO. 19 OF 36 SHEETS STA. TO STA.				CONTRACT NO. 60G52				
PLOT DATE = 11/12/2009	DATE - 10/16/09	REVISED -		STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION				FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

I-290 WB

Curve Data

Curve E.I290-F-8
P.I. Station 756+39.57 N 1,897,101.5884 E 1,125,905.4277
Delta = 15° 41' 15.38" (RT)
Degree = 1° 50' 47.27"
Tangent = 427.4751
Length = 849.6026
Radius = 3,103.0000
External = 29.3065
Long Chord = 846.9512
Mid. Ord. = 29.0323
P.C. Station 752+12.10 N 1,896,942.0841 E 1,125,508.8253
P.T. Station 760+61.70 N 1,897,147.9130 E 1,126,330.3854
C.C. = N 1,894,063.1870 E 1,126,666.6509
Back = N 68° 05' 28.15" E
Ahead = N 83° 46' 43.53" E
Chord Bear = N 75° 56' 05.84" E

Curve Data

Curve E.I290-F-9
P.I. Station 764+84.56 N 1,897,193.7379 E 1,126,750.7599
Delta = 11° 18' 21.75" (RT)
Degree = 1° 20' 28.30"
Tangent = 422.8649
Length = 842.9838
Radius = 4,272.0000
External = 20.8777
Long Chord = 841.6168
Mid. Ord. = 20.7761
P.C. Station 760+61.70 N 1,897,147.9130 E 1,126,330.3854
P.T. Station 769+04.68 N 1,897,156.2594 E 1,127,171.9607
C.C. = N 1,892,901.0714 E 1,126,793.3330
Back = N 83° 46' 43.53" E
Ahead = S 84° 54' 54.71" E
Chord Bear = N 89° 25' 54.41" E

Curve Data

Curve E.I290-F-10
P.I. Station 770+15.71 N 1,897,146.4188 E 1,127,282.5531
Delta = 2° 00' 23.69" (RT)
Degree = 0° 54' 13.39"
Tangent = 111.0293
Length = 222.0359
Radius = 6,340.0000
External = 0.9721
Long Chord = 222.0246
Mid. Ord. = 0.9720
P.C. Station 769+04.68 N 1,897,156.2594 E 1,127,171.9607
P.T. Station 771+26.72 N 1,897,132.7120 E 1,127,392.7331
C.C. = N 1,890,841.2097 E 1,126,610.0460
Back = S 84° 54' 54.71" E
Ahead = S 82° 54' 31.02" E
Chord Bear = S 83° 54' 42.87" E

Course from PT E.I290-F-10 to PC E.I290-F-11 S 82° 54' 31.02" E Dist 1,753.9538

I-290 WB

Curve Data

Curve E.I290-F-11
P.I. Station 790+34.84 N 1,896,897.1500 E 1,129,286.2598
Delta = 1° 44' 54.60" (RT)
Degree = 0° 34' 01.62"
Tangent = 154.1690
Length = 308.3141
Radius = 10,103.0000
External = 1.1762
Long Chord = 308.3021
Mid. Ord. = 1.1761
P.C. Station 788+80.67 N 1,896,916.1825 E 1,129,133.2701
P.T. Station 791+88.99 N 1,896,873.4583 E 1,129,438.5975
C.C. = N 1,886,890.4653 E 1,127,886.0323
Back = S 82° 54' 31.02" E
Ahead = S 81° 09' 36.42" E
Chord Bear = S 82° 02' 03.72" E

Course from PT E.I290-F-11 to PC E.I290-F-12 S 81° 09' 36.42" E Dist 1,265.9675

Curve Data

Curve E.I290-F-12
P.I. Station 806+99.43 N 1,896,641.3431 E 1,130,931.0982
Delta = 2° 30' 51.79" (LT)
Degree = 0° 30' 51.57"
Tangent = 244.4748
Length = 488.8712
Radius = 11,140.0000
External = 2.6823
Long Chord = 488.8319
Mid. Ord. = 2.6816
P.C. Station 804+54.95 N 1,896,678.9124 E 1,130,689.5274
P.T. Station 809+43.82 N 1,896,614.4077 E 1,131,174.0847
C.C. = N 1,907,686.5876 E 1,132,401.4522
Back = S 81° 09' 36.42" E
Ahead = S 83° 40' 28.21" E
Chord Bear = S 82° 25' 02.32" E

Course from PT E.I290-F-12 to PC E.I290-F-13 S 83° 40' 28.21" E Dist 446.9408

Curve Data

Curve E.I290-F-13
P.I. Station 816+46.96 N 1,896,536.9381 E 1,131,872.9440
Delta = 7° 16' 16.12" (LT)
Degree = 1° 25' 15.42"
Tangent = 256.1992
Length = 511.7105
Radius = 4,032.2200
External = 8.1310
Long Chord = 511.3672
Mid. Ord. = 8.1146
P.C. Station 813+90.76 N 1,896,565.1652 E 1,131,618.3045
P.T. Station 819+02.48 N 1,896,541.1664 E 1,132,129.1083
C.C. = N 1,900,572.8372 E 1,132,062.5609
Back = S 83° 40' 28.21" E
Ahead = N 89° 03' 15.67" E
Chord Bear = S 87° 18' 36.27" E

I-290 WB

Curve Data

Curve E I290 F-14
P.I. Station 821+00.75 N 1,896,544.4386 E 1,132,327.3533
Delta = 7° 13' 51.58" (RT)
Degree = 1° 49' 33.34"
Tangent = 198.2721
Length = 396.0176
Radius = 3,137.9000
External = 6.2578
Long Chord = 395.7549
Mid. Ord. = 6.2453
P.C. Station 819+02.48 N 1,896,541.1664 E 1,132,129.1083
P.T. Station 822+98.49 N 1,896,522.7318 E 1,132,524.4336
C.C. = N 1,893,403.6937 E 1,132,180.8959
Back = N 89° 03' 15.67" E
Ahead = S 83° 42' 52.75" E
Chord Bear = S 87° 19' 48.54" E

Course from PT E I290 F-14 to PC E I290 F-15 S 83° 42' 52.75" E Dist 2,057.0191

Curve Data

Curve E I290 F-15
P.I. Station 847+37.03 N 1,896,255.7608 E 1,134,948.3096
Delta = 2° 04' 28.87" (LT)
Degree = 0° 16' 18.95"
Tangent = 381.5150
Length = 762.9466
Radius = 21,070.0000
External = 3.4538
Long Chord = 762.9049
Mid. Ord. = 3.4532
P.C. Station 843+55.51 N 1,896,297.5291 E 1,134,569.0879
P.T. Station 851+18.46 N 1,896,227.7485 E 1,135,328.7948
C.C. = N 1,917,240.8770 E 1,136,875.8341
Back = S 83° 42' 52.75" E
Ahead = S 85° 47' 21.62" E
Chord Bear = S 84° 45' 07.18" E

Course from PT E I290 F-15 to 304 S 85° 47' 21.62" E Dist 1,233.4192

Point 304 N 1,896,137.1862 E 1,136,558.8848 Sta 863+51.88

Course from 304 to 305 S 86° 38' 57.70" E Dist 728.7244

Point 305 N 1,896,094.5949 E 1,137,286.3635 Sta 870+80.60

Course from 305 to PC E I290 F-16 S 88° 02' 12.67" E Dist 734.3420

**FRONTAGE RD A / MERGE LN**

**FRONTAGE RD B / MERGE LN**

**FRONTAGE RD B / MERGE LN**

Curve Data  
 -----  
 Curve E\_FRONT\_A-1  
 P.I. Station 485+12.61 N 1,896,397.7157 E 1,099,376.9553  
 Delta = 15° 56' 01.53" (RT)  
 Degree = 3° 00' 39.59"  
 Tangent = 266.3111  
 Length = 529.1852  
 Radius = 1,902.8831  
 External = 18.5449  
 Long Chord = 527.4816  
 Mid. Ord. = 18.3660  
 P.C. Station 482+46.30 N 1,896,248.4745 E 1,099,156.3907  
 P.T. Station 487+75.49 N 1,896,480.6723 E 1,099,630.0162  
 C.C. N 1,894,672.4665 E 1,100,222.7691  
 Back = N 55° 54' 59.18" E  
 Ahead = N 71° 51' 00.71" E  
 Chord Bear = N 63° 52' 59.94" E

Curve Data  
 -----  
 Curve E\_FRONT\_B-1  
 P.I. Station 508+03.20 N 1,896,740.9988 E 1,101,630.8305  
 Delta = 3° 38' 41.99" (RT)  
 Degree = 1° 30' 15.13"  
 Tangent = 121.2013  
 Length = 242.3209  
 Radius = 3,809.0473  
 External = 1.9278  
 Long Chord = 242.2800  
 Mid. Ord. = 1.9268  
 P.C. Station 506+82.00 N 1,896,750.0559 E 1,101,509.9680  
 P.T. Station 509+24.32 N 1,896,724.2763 E 1,101,750.8726  
 C.C. N 1,892,951.6587 E 1,101,225.3274  
 Back = S 85° 42' 51.96" E  
 Ahead = S 82° 04' 09.98" E  
 Chord Bear = S 83° 53' 30.97" E

Curve Data  
 -----  
 Curve E\_FRONT\_B-5  
 P.I. Station 538+33.22 N 1,895,471.8808 E 1,104,340.5369  
 Delta = 25° 53' 20.27" (LT)  
 Degree = 1° 30' 17.98"  
 Tangent = 875.0404  
 Length = 1,720.2033  
 Radius = 3,807.0426  
 External = 99.2688  
 Long Chord = 1,705.6069  
 Mid. Ord. = 96.7462  
 P.C. Station 529+58.18 N 1,895,951.0734 E 1,103,608.3688  
 P.T. Station 546+78.38 N 1,895,360.4645 E 1,105,208.4551  
 C.C. N 1,899,136.5208 E 1,105,693.1944  
 Back = S 56° 47' 45.16" E  
 Ahead = S 82° 41' 05.43" E  
 Chord Bear = S 69° 44' 25.30" E

Curve Data  
 -----  
 Curve E\_FRONT\_A-2  
 P.I. Station 489+92.44 N 1,896,548.2530 E 1,099,836.1728  
 Delta = 17° 17' 21.43" (RT)  
 Degree = 4° 00' 54.44"  
 Tangent = 216.9509  
 Length = 430.6044  
 Radius = 1,427.0000  
 External = 16.3976  
 Long Chord = 428.9725  
 Mid. Ord. = 16.2113  
 P.C. Station 487+75.49 N 1,896,480.6723 E 1,099,630.0162  
 P.T. Station 492+06.09 N 1,896,551.5112 E 1,100,053.0992  
 C.C. N 1,895,124.6722 E 1,100,074.5303  
 Back = N 71° 51' 00.71" E  
 Ahead = N 89° 08' 22.14" E  
 Chord Bear = N 80° 29' 41.43" E

Curve Data  
 -----  
 Curve E\_FRONT\_B-2  
 P.I. Station 510+29.96 N 1,896,709.7006 E 1,101,855.5041  
 Delta = 4° 04' 57.02" (RT)  
 Degree = 1° 55' 59.00"  
 Tangent = 105.6419  
 Length = 211.1943  
 Radius = 2,964.0000  
 External = 1.8820  
 Long Chord = 211.1497  
 Mid. Ord. = 1.8808  
 P.C. Station 509+24.32 N 1,896,724.2763 E 1,101,750.8726  
 P.T. Station 511+35.52 N 1,896,687.7129 E 1,101,958.8325  
 C.C. N 1,893,788.6240 E 1,101,341.9210  
 Back = S 82° 04' 09.98" E  
 Ahead = S 77° 59' 12.96" E  
 Chord Bear = S 80° 01' 41.47" E

Curve Data  
 -----  
 Curve E\_FRONT\_B-6  
 P.I. Station 550+18.78 N 1,895,317.1219 E 1,105,546.0881  
 Delta = 9° 57' 37.14" (LT)  
 Degree = 1° 28' 00.16"  
 Tangent = 340.4036  
 Length = 679.0919  
 Radius = 3,906.4120  
 External = 14.8033  
 Long Chord = 678.2371  
 Mid. Ord. = 14.7474  
 P.C. Station 546+78.38 N 1,895,360.4645 E 1,105,208.4551  
 P.T. Station 553+57.47 N 1,895,332.8317 E 1,105,886.1290  
 C.C. N 1,899,235.0814 E 1,105,705.8468  
 Back = S 82° 41' 05.43" E  
 Ahead = N 87° 21' 17.43" E  
 Chord Bear = S 87° 39' 54.00" E

Course from PT E\_FRONT\_A-2 to PC E\_FRONT\_A-3 N 89° 08' 22.14" E Dist 244.8538

Course from PT E\_FRONT\_B-6 to PC E\_FRONT\_B-7 N 87° 21' 17.43" E Dist 1,153.7087

Curve Data  
 -----  
 Curve E\_FRONT\_A-3  
 P.I. Station 496+26.39 N 1,896,557.8234 E 1,100,473.3503  
 Delta = 14° 11' 08.10" (LT)  
 Degree = 4° 03' 48.71"  
 Tangent = 175.4447  
 Length = 349.0951  
 Radius = 1,410.0000  
 External = 10.8733  
 Long Chord = 348.2041  
 Mid. Ord. = 10.7901  
 P.C. Station 494+50.94 N 1,896,555.1885 E 1,100,297.9254  
 P.T. Station 498+00.04 N 1,896,603.3682 E 1,100,642.7802  
 C.C. N 1,897,965.0295 E 1,100,276.7497  
 Back = N 89° 08' 22.14" E  
 Ahead = N 74° 57' 14.04" E  
 Chord Bear = N 82° 02' 48.09" E

Curve Data  
 -----  
 Curve E\_FRONT\_B-3  
 P.I. Station 514+44.44 N 1,896,623.4157 E 1,102,260.9882  
 Delta = 6° 15' 00.02" (RT)  
 Degree = 1° 00' 45.33"  
 Tangent = 308.9211  
 Length = 617.2294  
 Radius = 5,658.3378  
 External = 8.4266  
 Long Chord = 616.9235  
 Mid. Ord. = 8.4141  
 P.C. Station 511+35.52 N 1,896,687.7129 E 1,101,958.8325  
 P.T. Station 517+52.74 N 1,896,526.6058 E 1,102,554.3483  
 C.C. N 1,891,153.2917 E 1,100,781.1357  
 Back = S 77° 59' 12.96" E  
 Ahead = S 71° 44' 12.94" E  
 Chord Bear = S 74° 51' 42.95" E

Curve Data  
 -----  
 Curve E\_FRONT\_B-7  
 P.I. Station 569+37.33 N 1,895,405.7425 E 1,107,464.3015  
 Delta = 12° 16' 52.24" (LT)  
 Degree = 1° 26' 47.39"  
 Tangent = 426.1471  
 Length = 849.0285  
 Radius = 3,961.0000  
 External = 22.8577  
 Long Chord = 847.4041  
 Mid. Ord. = 22.7266  
 P.C. Station 565+11.18 N 1,895,386.0757 E 1,107,038.6084  
 P.T. Station 573+60.21 N 1,895,515.5082 E 1,107,876.0694  
 C.C. N 1,899,342.8553 E 1,106,855.8070  
 Back = N 87° 21' 17.43" E  
 Ahead = N 75° 04' 25.18" E  
 Chord Bear = N 81° 12' 51.31" E

Course from PT E\_FRONT\_A-3 to PC E\_FRONT\_A-4 N 74° 57' 14.04" E Dist 308.2017

Course from PT E\_FRONT\_B-7 to PC E\_FRONT\_B-8 N 75° 04' 25.18" E Dist 369.6731

Curve Data  
 -----  
 Curve E\_FRONT\_A-4  
 P.I. Station 503+60.80 N 1,896,748.9392 E 1,101,184.3156  
 Delta = 17° 30' 33.89" (RT)  
 Degree = 3° 29' 37.12"  
 Tangent = 252.5581  
 Length = 501.1790  
 Radius = 1,640.0000  
 External = 19.3329  
 Long Chord = 499.2311  
 Mid. Ord. = 19.1076  
 P.C. Station 501+08.24 N 1,896,683.3761 E 1,100,940.4159  
 P.T. Station 506+09.42 N 1,896,738.0844 E 1,101,436.6403  
 C.C. N 1,895,099.5998 E 1,101,366.1536  
 Back = N 74° 57' 14.04" E  
 Ahead = S 87° 32' 12.07" E  
 Chord Bear = N 83° 42' 30.99" E

Curve Data  
 -----  
 Curve E\_FRONT\_B-4  
 P.I. Station 521+23.71 N 1,896,410.3528 E 1,102,906.6263  
 Delta = 14° 56' 27.78" (RT)  
 Degree = 2° 01' 31.09"  
 Tangent = 370.9644  
 Length = 737.7198  
 Radius = 2,829.0000  
 External = 24.2185  
 Long Chord = 735.6313  
 Mid. Ord. = 24.0129  
 P.C. Station 517+52.74 N 1,896,526.6058 E 1,102,554.3483  
 P.T. Station 524+90.46 N 1,896,207.2040 E 1,103,217.0215  
 C.C. N 1,893,840.1092 E 1,101,667.7949  
 Back = S 71° 44' 12.94" E  
 Ahead = S 56° 47' 45.16" E  
 Chord Bear = S 64° 15' 59.05" E

Curve Data  
 -----  
 Curve E\_FRONT\_B-8  
 P.I. Station 578+09.89 N 1,895,631.3360 E 1,108,310.5783  
 Delta = 2° 27' 36.95" (RT)  
 Degree = 1° 32' 15.82"  
 Tangent = 80.0090  
 Length = 159.9934  
 Radius = 3,726.0000  
 External = 0.8589  
 Long Chord = 159.9811  
 Mid. Ord. = 0.8587  
 P.C. Station 577+29.88 N 1,895,610.7275 E 1,108,233.2690  
 P.T. Station 578+89.88 N 1,895,648.6068 E 1,108,388.7010  
 C.C. N 1,892,010.4510 E 1,109,193.0008  
 Back = N 75° 04' 25.18" E  
 Ahead = N 77° 32' 02.14" E  
 Chord Bear = N 76° 18' 13.66" E

Course from PT E\_FRONT\_A-4 to 1161 S 87° 47' 33.52" E Dist 72.5701

Course from PT E\_FRONT\_B-8 to PC E\_FRONT\_B-9 N 77° 32' 02.14" E Dist 318.4558

Point 1161 N 1,896,735.2892 E 1,101,509.1566 Sta 506+81.99

Course from PT E\_FRONT\_B-4 to PC E\_FRONT\_B-5 S 56° 47' 45.16" E Dist 467.7131

FILE NAME =	DESIGNED - AJP	REVISED -	<b>benesch</b>	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>				<b>ALIGNMENT PLAN I-290 RAMP CURVE DATA</b>				F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
...\\exp\h_abc_c2_290_r_data\align_21.dgn	DRAWN - TMB	REVISED -										290	13031.1, ETC., 3838RS-5	COOK	298	48
USER NAME = tblank	CHECKED - JMM	REVISED -		SCALE: N.T.S. SHEET NO. 21 OF 36 SHEETS STA. TO STA.				CONTRACT NO. 60G52								
PLOT DATE = 11/12/2009	DATE = 10/16/09	REVISED -		FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT												



**FRONTAGE RD B / MERGE LN**

Curve Data

Curve E FRONT B-9  
 P.I. Station 582+64.05 N 1,895,729.3755 E 1,108,754.0486  
 Delta = 3° 55' 12.03" (RT)  
 Degree = 3° 31' 09.83"  
 Tangent = 55.7132  
 Length = 111.3829  
 Radius = 1,628.0000  
 External = 0.9530  
 Long Chord = 111.3612  
 Mid. Ord. = 0.9525  
 P.C. Station 582+08.33 N 1,895,717.3492 E 1,108,699.6489  
 P.T. Station 583+19.72 N 1,895,737.6548 E 1,108,809.1432  
 C.C. = N 1,894,127.7309 E 1,109,051.0714  
 Back = N 77° 32' 02.14" E  
 Ahead = N 81° 27' 14.17" E  
 Chord Bear = N 79° 29' 38.15" E

**FRONTAGE RD C / MERGE LN**

Curve Data

Curve E FRONT C-1  
 P.I. Station 584+87.50 N 1,895,754.1528 E 1,108,976.5601  
 Delta = 6° 09' 51.58" (RT)  
 Degree = 1° 50' 19.54"  
 Tangent = 167.7837  
 Length = 335.2437  
 Radius = 3,116.0000  
 External = 4.5140  
 Long Chord = 335.0820  
 Mid. Ord. = 4.5074  
 P.C. Station 583+19.72 N 1,895,725.6172 E 1,108,811.2207  
 P.T. Station 586+54.96 N 1,895,764.7691 E 1,109,144.0076  
 C.C. = N 1,892,655.0130 E 1,109,341.1697  
 Back = N 80° 12' 28.47" E  
 Ahead = N 86° 22' 20.06" E  
 Chord Bear = N 83° 17' 24.26" E

Course from PT E FRONT C-1 to 1181 N 86° 22' 20.06" E Dist 99.8653

Point 1181 N 1,895,771.0880 E 1,109,243.6727 Sta 587+54.83

Course from 1181 to 1182 N 86° 25' 06.63" E Dist 551.5756

Point 1182 N 1,895,805.5439 E 1,109,794.1711 Sta 593+06.40

**RAMP E\_WOLF\_A**

Curve Data

Curve E WOLF A-1  
 P.I. Station 0+99.05 N 1,895,592.1044 E 1,104,220.5465  
 Delta = 2° 57' 31.97" (RT)  
 Degree = 1° 29' 38.50"  
 Tangent = 99.0456  
 Length = 198.0472  
 Radius = 3,834.9886  
 External = 1.2788  
 Long Chord = 198.0252  
 Mid. Ord. = 1.2784  
 P.C. Station 0+00.00 N 1,895,558.3257 E 1,104,313.6541  
 P.T. Station 1+98.05 N 1,895,630.6442 E 1,104,129.3066  
 C.C. = N 1,899,163.3994 E 1,105,621.5461  
 Back = N 70° 03' 34.67" W  
 Ahead = N 67° 06' 02.71" W  
 Chord Bear = N 68° 34' 48.69" W

Course from PT E WOLF A-1 to PC E WOLF A-2 N 67° 06' 02.71" W Dist 254.8921

Curve Data

Curve E WOLF A-2  
 P.I. Station 5+51.13 N 1,895,768.0333 E 1,103,804.0491  
 Delta = 28° 00' 30.90" (LT)  
 Degree = 14° 33' 11.37"  
 Tangent = 98.1918  
 Length = 192.4571  
 Radius = 393.7000  
 External = 12.0602  
 Long Chord = 190.5465  
 Mid. Ord. = 11.7017  
 P.C. Station 4+52.94 N 1,895,729.8257 E 1,103,894.5024  
 P.T. Station 6+45.40 N 1,895,759.2887 E 1,103,706.2475  
 C.C. = N 1,895,367.1531 E 1,103,741.3091  
 Back = N 67° 06' 02.71" W  
 Ahead = S 84° 53' 26.39" W  
 Chord Bear = N 81° 06' 18.16" W

FILE NAME =	DESIGNED - AJP	REVISED -	<b>benesch</b>	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>ALIGNMENT PLAN I-290 RAMP CURVE DATA</b>			F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
...expln ARC.C2.290_R_Data.exalign.22.dgn	DRAWN - TMB	REVISED -			290	(3031.1, ETC., 3838)RS-5	COOK	298	49			
USER NAME = tbiank	CHECKED - JMM	REVISED -			CONTRACT NO. 60652							
PLDT DATE = 11/12/2009	DATE = 10/16/09	REVISED -			SCALE: N.T.S.	SHEET NO. 22 OF 36 SHEETS	STA. TO STA.	FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			

**RAMP E\_WOLF\_B**

Curve Data

Curve E\_WOLF\_B-1  
 P.I. Station = 0+59.42 N 1,895,692.1885 E 1,104,510.6499  
 Delta = 1° 53' 22.21" (RT)  
 Degree = 1° 35' 24.47"  
 Tangent = 59.4188  
 Length = 118.8269  
 Radius = 3,603.2141  
 External = 0.4899  
 Long Chord = 118.8215  
 Mid. Ord. = 0.4898  
 P.C. Station = 0+00.00 N 1,895,670.7382 E 1,104,566.0618  
 P.T. Station = 1+18.83 N 1,895,715.4541 E 1,104,455.9753  
 C.C. = N 1,899,030.9719 E 1,105,866.8238  
 Back = N 68° 50' 18.06" W  
 Ahead = N 66° 56' 55.85" W  
 Chord Bear = N 67° 53' 36.96" W

Curve Data

Curve E\_WOLF\_B-2  
 P.I. Station = 2+29.38 N 1,895,758.7431 E 1,104,354.2454  
 Delta = 3° 30' 57.90" (RT)  
 Degree = 1° 35' 26.39"  
 Tangent = 110.5573  
 Length = 221.0451  
 Radius = 3,602.0049  
 External = 1.6963  
 Long Chord = 221.0104  
 Mid. Ord. = 1.6955  
 P.C. Station = 1+18.83 N 1,895,715.4541 E 1,104,455.9753  
 P.T. Station = 3+39.87 N 1,895,808.1895 E 1,104,255.3619  
 C.C. = N 1,899,029.8592 E 1,105,866.3503  
 Back = N 66° 56' 55.85" W  
 Ahead = N 63° 25' 57.95" W  
 Chord Bear = N 65° 11' 26.90" W

Curve Data

Curve E\_WOLF\_B-3  
 P.I. Station = 3+97.32 N 1,895,833.8821 E 1,104,203.9817  
 Delta = 1° 41' 06.68" (RT)  
 Degree = 1° 28' 00.72"  
 Tangent = 57.4459  
 Length = 114.8835  
 Radius = 3,905.9950  
 External = 0.4224  
 Long Chord = 114.8794  
 Mid. Ord. = 0.4224  
 P.C. Station = 3+39.87 N 1,895,808.1895 E 1,104,255.3619  
 P.T. Station = 4+54.76 N 1,895,861.0745 E 1,104,153.3793  
 C.C. = N 1,899,301.7511 E 1,106,002.3092  
 Back = N 63° 25' 57.95" W  
 Ahead = N 61° 44' 51.27" W  
 Chord Bear = N 62° 35' 24.61" W

**RAMP E\_WOLF\_B**

Curve Data

Curve E\_WOLF\_B-4  
 P.I. Station = 4+79.04 N 1,895,872.5717 E 1,104,131.9842  
 Delta = 0° 54' 35.74" (RT)  
 Degree = 1° 52' 23.51"  
 Tangent = 24.2886  
 Length = 48.5762  
 Radius = 3,058.7161  
 External = 0.0964  
 Long Chord = 48.5757  
 Mid. Ord. = 0.0964  
 P.C. Station = 4+54.76 N 1,895,861.0745 E 1,104,153.3793  
 P.T. Station = 5+03.33 N 1,895,884.4072 E 1,104,110.7743  
 C.C. = N 1,898,555.4079 E 1,105,601.2438  
 Back = N 61° 44' 51.27" W  
 Ahead = N 60° 50' 15.53" W  
 Chord Bear = N 61° 17' 33.40" W

Curve Data

Curve E\_WOLF\_B-5  
 P.I. Station = 5+35.88 N 1,895,900.2681 E 1,104,082.3507  
 Delta = 1° 02' 26.77" (RT)  
 Degree = 1° 35' 55.65"  
 Tangent = 32.5495  
 Length = 65.0972  
 Radius = 3,583.6940  
 External = 0.1478  
 Long Chord = 65.0963  
 Mid. Ord. = 0.1478  
 P.C. Station = 5+03.33 N 1,895,884.4072 E 1,104,110.7743  
 P.T. Station = 5+68.43 N 1,895,916.6427 E 1,104,054.2199  
 C.C. = N 1,899,013.8409 E 1,105,857.0582  
 Back = N 60° 50' 15.53" W  
 Ahead = N 59° 47' 48.76" W  
 Chord Bear = N 60° 19' 02.15" W

**RAMP E\_WOLF\_C**

Curve Data

Curve E\_WOLF\_C-1  
 P.I. Station = 6+64.54 N 1,895,951.3429 E 1,103,963.1942  
 Delta = 3° 02' 12.52" (RT)  
 Degree = 1° 34' 59.04"  
 Tangent = 95.9379  
 Length = 191.8309  
 Radius = 3,619.2902  
 External = 1.2713  
 Long Chord = 191.8085  
 Mid. Ord. = 1.2709  
 P.C. Station = 5+68.60 N 1,895,903.0797 E 1,104,046.1083  
 P.T. Station = 7+60.43 N 1,896,003.9309 E 1,103,882.9533  
 C.C. = N 1,899,031.0418 E 1,105,866.8539  
 Back = N 59° 47' 48.76" W  
 Ahead = N 56° 45' 36.24" W  
 Chord Bear = N 58° 16' 42.50" W

Curve Data

Curve E\_WOLF\_C-2  
 P.I. Station = 9+26.86 N 1,896,095.1571 E 1,103,743.7570  
 Delta = 10° 15' 45.33" (RT)  
 Degree = 3° 05' 29.35"  
 Tangent = 166.4267  
 Length = 331.9630  
 Radius = 1,853.3406  
 External = 7.4574  
 Long Chord = 331.5194  
 Mid. Ord. = 7.4275  
 P.C. Station = 7+60.43 N 1,896,003.9309 E 1,103,882.9533  
 P.T. Station = 10+92.39 N 1,896,209.7229 E 1,103,623.0404  
 C.C. = N 1,897,554.0325 E 1,104,898.8551  
 Back = N 56° 45' 36.24" W  
 Ahead = N 46° 29' 50.91" W  
 Chord Bear = N 51° 37' 43.58" W

Course from PT E\_WOLF\_C-2 to PC E\_WOLF\_C-3 N 45° 11' 05.73" W Dist 186.1661

Curve Data

Curve E\_WOLF\_C-3  
 P.I. Station = 13+18.50 N 1,896,368.4332 E 1,103,462.0060  
 Delta = 3° 13' 58.76" (LT)  
 Degree = 4° 02' 53.40"  
 Tangent = 39.9421  
 Length = 79.8630  
 Radius = 1,415.3514  
 External = 0.5635  
 Long Chord = 79.8524  
 Mid. Ord. = 0.5633  
 P.C. Station = 12+78.56 N 1,896,340.9367 E 1,103,490.9769  
 P.T. Station = 13+58.42 N 1,896,394.2521 E 1,103,431.5304  
 C.C. = N 1,895,314.3497 E 1,102,516.6368  
 Back = N 46° 29' 44.62" W  
 Ahead = N 49° 43' 43.38" W  
 Chord Bear = N 48° 06' 44.00" W

Curve Data

Curve E\_WOLF\_C-4  
 P.I. Station = 14+27.13 N 1,896,438.6678 E 1,103,378.1040  
 Delta = 25° 56' 33.19" (LT)  
 Degree = 19° 12' 25.66"  
 Tangent = 68.7116  
 Length = 135.0673  
 Radius = 298.3048  
 External = 7.8113  
 Long Chord = 133.9165  
 Mid. Ord. = 7.6119  
 P.C. Station = 13+58.42 N 1,896,394.2521 E 1,103,431.5304  
 P.T. Station = 14+93.49 N 1,896,455.6728 E 1,103,312.5299  
 C.C. = N 1,896,166.6478 E 1,103,238.7040  
 Back = N 49° 43' 43.38" W  
 Ahead = N 75° 40' 16.57" W  
 Chord Bear = N 62° 41' 59.97" W

FILE NAME =	DESIGNED - AJP	REVISED -
...\\expln_abc_c2_290_r_data.exe.ign.23.dgn	DRAWN - TMB	REVISED -
USER NAME = tblank	CHECKED - JVM	REVISED -
PLT DATE = 11/12/2009	DATE - 10/16/09	REVISED -

**benesch**

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

ALIGNMENT PLAN I-290 RAMP CURVE DATA		F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		290	(3031.1, ETC., 3838RS-5)	COOK	298	50
SCALE: N.T.S.	SHEET NO. 23 OF 36 SHEETS	STA.	TO STA.	CONTRACT NO. 60C52		
		FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

**RAMP E\_MANN\_A**

Curve Data

Curve E\_MANN\_A-1  
 P.I. Station = 1+59.03 N 1,895,290.9559 E 1,105,713.5287  
 Delta = 4° 33' 33.92" (LT)  
 Degree = 1° 26' 03.33"  
 Tangent = 159.0309  
 Length = 317.8939  
 Radius = 3,994.8000  
 External = 3.1642  
 Long Chord = 317.8101  
 Mid. Ord. = 3.1617  
 P.C. Station = 0+00.00 N 1,895,307.9175 E 1,105,555.4049  
 P.T. Station = 3+17.89 N 1,895,286.6177 E 1,105,872.5004  
 C.C. = N 1,899,279.9311 E 1,105,981.4749  
 Back = S 83° 52' 38.67" E  
 Ahead = S 88° 26' 12.59" E  
 Chord Bear = S 86° 09' 25.63" E

Course from PT E\_MANN\_A-1 to PC E\_MANN\_A-2 S 88° 26' 12.59" E Dist 141.0788

Curve Data

Curve E\_MANN\_A-2  
 P.I. Station = 6+19.32 N 1,895,278.3951 E 1,106,173.8144  
 Delta = 42° 42' 38.06" (RT)  
 Degree = 13° 58' 16.22"  
 Tangent = 160.3474  
 Length = 305.7050  
 Radius = 410.1000  
 External = 30.2332  
 Long Chord = 298.6759  
 Mid. Ord. = 28.1574  
 P.C. Station = 4+58.97 N 1,895,282.7692 E 1,106,013.5267  
 P.T. Station = 7+64.68 N 1,895,166.4586 E 1,106,288.6252  
 C.C. = N 1,894,872.8218 E 1,106,002.3396  
 Back = S 88° 26' 12.59" E  
 Ahead = S 45° 43' 34.53" E  
 Chord Bear = S 67° 04' 53.56" E

Course from PT E\_MANN\_A-2 to PC E\_MANN\_A-3 S 45° 43' 34.53" E Dist 250.3584

Curve Data

Curve E\_MANN\_A-3  
 P.I. Station = 11+40.62 N 1,894,904.0210 E 1,106,557.8017  
 Delta = 46° 15' 31.48" (LT)  
 Degree = 19° 29' 18.10"  
 Tangent = 125.5798  
 Length = 237.3660  
 Radius = 294.0000  
 External = 25.6972  
 Long Chord = 230.9715  
 Mid. Ord. = 23.6316  
 P.C. Station = 10+15.04 N 1,894,991.6866 E 1,106,467.8850  
 P.T. Station = 12+52.40 N 1,894,908.3708 E 1,106,683.3061  
 C.C. = N 1,895,202.1944 E 1,106,673.1226  
 Back = S 45° 43' 34.53" E  
 Ahead = N 88° 00' 54.00" E  
 Chord Bear = S 68° 51' 20.27" E

Course from PT E\_MANN\_A-3 to 881 N 88° 00' 54.00" E Dist 125.8573

Point 881 N 1,894,912.7302 E 1,106,809.0880 Sta 13+78.26

Course from 881 to 882 N 87° 52' 34.20" E Dist 55.9504

Point 882 N 1,894,914.8037 E 1,106,864.9999 Sta 14+34.21

**RAMP E\_MANN\_B**

Curve Data

Curve E\_MANN\_B-1  
 P.I. Station = 0+58.70 N 1,895,345.0496 E 1,106,662.5162  
 Delta = 18° 59' 13.47" (LT)  
 Degree = 16° 19' 16.68"  
 Tangent = 58.7048  
 Length = 116.3331  
 Radius = 351.0491  
 External = 4.8747  
 Long Chord = 115.8015  
 Mid. Ord. = 4.8079  
 P.C. Station = 0+00.00 N 1,895,347.7589 E 1,106,721.1585  
 P.T. Station = 1+16.33 N 1,895,323.4082 E 1,106,607.9461  
 C.C. = N 1,894,997.0838 E 1,106,737.3595  
 Back = S 87° 21' 17.43" W  
 Ahead = S 68° 22' 03.96" W  
 Chord Bear = S 77° 51' 40.70" W

Curve Data

Curve E\_MANN\_B-2  
 P.I. Station = 3+37.27 N 1,895,241.9608 E 1,106,402.5709  
 Delta = 101° 25' 44.70" (LT)  
 Degree = 31° 42' 02.23"  
 Tangent = 220.9358  
 Length = 319.9593  
 Radius = 180.7403  
 External = 104.7062  
 Long Chord = 279.7863  
 Mid. Ord. = 66.2983  
 P.C. Station = 1+16.33 N 1,895,323.4082 E 1,106,607.9461  
 P.T. Station = 4+36.29 N 1,895,056.7973 E 1,106,523.0994  
 C.C. = N 1,895,155.3977 E 1,106,674.5755  
 Back = S 68° 22' 03.96" W  
 Ahead = S 33° 03' 40.73" E  
 Chord Bear = S 17° 39' 11.61" W

Curve Data

Curve E\_MANN\_B-3  
 P.I. Station = 6+56.94 N 1,894,871.8757 E 1,106,643.4705  
 Delta = 101° 25' 44.70" (LT)  
 Degree = 31° 44' 31.48"  
 Tangent = 220.6473  
 Length = 319.5414  
 Radius = 180.5042  
 External = 104.5694  
 Long Chord = 279.4208  
 Mid. Ord. = 66.2117  
 P.C. Station = 4+36.29 N 1,895,056.7973 E 1,106,523.0994  
 P.T. Station = 7+55.83 N 1,895,026.5030 E 1,106,800.8732  
 C.C. = N 1,895,155.2689 E 1,106,674.3777  
 Back = S 33° 03' 40.73" E  
 Ahead = N 45° 30' 34.57" E  
 Chord Bear = S 83° 46' 33.08" E

Curve Data

Curve E\_MANN\_B-4  
 P.I. Station = 8+21.58 N 1,895,072.3475 E 1,106,847.9954  
 Delta = 22° 36' 50.56" (LT)  
 Degree = 17° 25' 31.67"  
 Tangent = 65.7436  
 Length = 129.7758  
 Radius = 328.8049  
 External = 6.5082  
 Long Chord = 128.9351  
 Mid. Ord. = 6.3819  
 P.C. Station = 7+55.83 N 1,895,026.5030 E 1,106,800.8732  
 P.T. Station = 8+85.61 N 1,895,132.7868 E 1,106,873.8665  
 C.C. = N 1,895,262.1764 E 1,106,571.5902  
 Back = N 45° 47' 14.73" E  
 Ahead = N 23° 10' 24.17" E  
 Chord Bear = N 34° 28' 49.45" E

**RAMP E\_MANN\_B**

Curve Data

Curve E\_MANN\_B-5  
 P.I. Station = 8+92.06 N 1,895,138.7075 E 1,106,876.4192  
 Delta = 2° 18' 07.11" (LT)  
 Degree = 17° 51' 13.89"  
 Tangent = 6.4476  
 Length = 12.8934  
 Radius = 320.9154  
 External = 0.0648  
 Long Chord = 12.8926  
 Mid. Ord. = 0.0648  
 P.C. Station = 8+85.61 N 1,895,132.7868 E 1,106,873.8665  
 P.T. Station = 8+98.50 N 1,895,144.7260 E 1,106,878.7321  
 C.C. = N 1,895,259.8448 E 1,106,579.1752  
 Back = N 23° 19' 24.93" E  
 Ahead = N 21° 01' 17.82" E  
 Chord Bear = N 22° 10' 21.37" E

Curve Data

Curve E\_MANN\_B-6  
 P.I. Station = 9+12.28 N 1,895,157.5902 E 1,106,883.6758  
 Delta = 4° 26' 58.33" (LT)  
 Degree = 16° 09' 04.64"  
 Tangent = 13.7815  
 Length = 27.5491  
 Radius = 354.7443  
 External = 0.2676  
 Long Chord = 27.5422  
 Mid. Ord. = 0.2674  
 P.C. Station = 8+98.50 N 1,895,144.7260 E 1,106,878.7321  
 P.T. Station = 9+26.05 N 1,895,170.7992 E 1,106,887.6066  
 C.C. = N 1,895,271.9799 E 1,106,547.5978  
 Back = N 21° 01' 17.82" E  
 Ahead = N 16° 34' 19.49" E  
 Chord Bear = N 18° 47' 48.65" E

Curve Data

Curve E\_MANN\_B-7  
 P.I. Station = 9+79.02 N 1,895,221.5705 E 1,106,902.7152  
 Delta = 17° 20' 14.37" (LT)  
 Degree = 16° 29' 26.67"  
 Tangent = 52.9717  
 Length = 105.1337  
 Radius = 347.4421  
 External = 4.0149  
 Long Chord = 104.7331  
 Mid. Ord. = 3.9690  
 P.C. Station = 9+26.05 N 1,895,170.7992 E 1,106,887.6066  
 P.T. Station = 10+31.19 N 1,895,274.5375 E 1,106,902.0078  
 C.C. = N 1,895,269.8971 E 1,106,554.5966  
 Back = N 16° 34' 19.49" E  
 Ahead = N 0° 45' 54.88" W  
 Chord Bear = N 7° 54' 12.31" E

**RAMP E\_MANN\_C**

Curve Data

Curve E\_MANN\_C-1  
 P.I. Station 0+59.62 N 1,895,373.4814 E 1,107,209.1470  
 Delta = 19° 16' 37.51" (RT)  
 Degree = 16° 19' 16.68"  
 Tangent = 59.6185  
 Length = 118.1100  
 Radius = 351.0491  
 External = 5.0265  
 Long Chord = 117.5537  
 Mid. Ord. = 4.9555  
 P.C. Station 0+00.00 N 1,895,369.0843 E 1,107,149.6909  
 P.T. Station 1+18.11 N 1,895,358.0034 E 1,107,266.7212  
 C.C. N 1,895,018.9913 E 1,107,175.5826  
 Back = N 85° 46' 13.07" E  
 Ahead = S 74° 57' 09.42" E  
 Chord Bear = S 84° 35' 28.18" E

Curve Data

Curve E\_MANN\_C-2  
 P.I. Station 1+51.31 N 1,895,349.3852 E 1,107,298.7788  
 Delta = 21° 25' 08.33" (RT)  
 Degree = 32° 38' 33.42"  
 Tangent = 33.1958  
 Length = 65.6166  
 Radius = 175.5245  
 External = 3.1115  
 Long Chord = 65.2352  
 Mid. Ord. = 3.0573  
 P.C. Station 1+18.11 N 1,895,358.0034 E 1,107,266.7212  
 P.T. Station 1+83.73 N 1,895,329.6553 E 1,107,325.4751  
 C.C. N 1,895,188.4974 E 1,107,221.1519  
 Back = S 74° 57' 09.42" E  
 Ahead = S 53° 32' 01.09" E  
 Chord Bear = S 64° 14' 35.25" E

Curve Data

Curve E\_MANN\_C-3  
 P.I. Station 2+94.09 N 1,895,264.0634 E 1,107,414.2262  
 Delta = 96° 32' 33.91" (RT)  
 Degree = 58° 12' 45.44"  
 Tangent = 110.3588  
 Length = 165.8451  
 Radius = 98.4250  
 External = 49.4484  
 Long Chord = 146.9103  
 Mid. Ord. = 32.9130  
 P.C. Station 1+83.73 N 1,895,329.6553 E 1,107,325.4751  
 P.T. Station 3+49.57 N 1,895,183.3641 E 1,107,338.9489  
 C.C. N 1,895,250.5013 E 1,107,266.9761  
 Back = S 53° 32' 01.09" E  
 Ahead = S 43° 00' 32.82" W  
 Chord Bear = S 5° 15' 44.14" E

Curve Data

Curve E\_MANN\_C-4  
 P.I. Station 5+40.90 N 1,895,043.4578 E 1,107,208.4425  
 Delta = 88° 22' 10.00" (RT)  
 Degree = 29° 06' 22.76"  
 Tangent = 191.3261  
 Length = 303.6091  
 Radius = 196.8500  
 External = 77.6598  
 Long Chord = 274.3986  
 Mid. Ord. = 55.6895  
 P.C. Station 3+49.57 N 1,895,183.3641 E 1,107,338.9489  
 P.T. Station 6+53.18 N 1,895,169.9303 E 1,107,064.8794  
 C.C. N 1,895,317.6384 E 1,107,195.0033  
 Back = S 43° 00' 32.82" W  
 Ahead = N 48° 37' 17.18" W  
 Chord Bear = S 87° 11' 37.82" W

**RAMP E\_MANN\_C**

Curve Data

Curve E\_MANN\_C-5  
 P.I. Station 6+85.75 N 1,895,191.4604 E 1,107,040.4399  
 Delta = 27° 52' 36.49" (RT)  
 Degree = 43° 39' 33.97"  
 Tangent = 32.5704  
 Length = 63.8506  
 Radius = 131.2334  
 External = 3.9814  
 Long Chord = 63.2227  
 Mid. Ord. = 3.8641  
 P.C. Station 6+53.18 N 1,895,169.9303 E 1,107,064.8794  
 P.T. Station 7+17.03 N 1,895,221.9191 E 1,107,028.9034  
 C.C. N 1,895,268.4025 E 1,107,151.6287  
 Back = N 48° 37' 17.18" W  
 Ahead = N 20° 44' 40.69" W  
 Chord Bear = N 34° 40' 58.94" W

Curve Data

Curve E\_MANN\_C-6  
 P.I. Station 7+60.06 N 1,895,262.1596 E 1,107,013.6619  
 Delta = 18° 37' 16.06" (RT)  
 Degree = 21° 49' 47.12"  
 Tangent = 43.0302  
 Length = 85.3016  
 Radius = 262.4664  
 External = 3.5039  
 Long Chord = 84.9267  
 Mid. Ord. = 3.4578  
 P.C. Station 7+17.03 N 1,895,221.9191 E 1,107,028.9034  
 P.T. Station 8+02.33 N 1,895,305.1603 E 1,107,012.0675  
 C.C. N 1,895,314.8857 E 1,107,274.3537  
 Back = N 20° 44' 40.69" W  
 Ahead = N 2° 07' 24.63" W  
 Chord Bear = N 11° 26' 02.66" W

**RAMP E\_MANN\_D**

Curve Data

Curve E\_MANN\_D-1  
 P.I. Station 1+05.43 N 1,895,420.4182 E 1,107,600.0502  
 Delta = 39° 42' 18.74" (LT)  
 Degree = 19° 37' 18.63"  
 Tangent = 105.4294  
 Length = 202.3521  
 Radius = 292.0000  
 External = 18.4503  
 Long Chord = 198.3273  
 Mid. Ord. = 17.3537  
 P.C. Station 0+00.00 N 1,895,446.5035 E 1,107,702.2017  
 P.T. Station 2+02.35 N 1,895,335.0916 E 1,107,538.1251  
 C.C. N 1,895,163.5822 E 1,107,774.4481  
 Back = S 75° 40' 30.54" W  
 Ahead = S 35° 58' 11.79" W  
 Chord Bear = S 55° 49' 21.17" W

Course from PT E\_MANN\_D-1 to PC E\_MANN\_D-2 S 35° 58' 11.79" W Dist 197.0383

Curve Data

Curve E\_MANN\_D-2  
 P.I. Station 5+13.46 N 1,895,083.3078 E 1,107,355.3953  
 Delta = 42° 40' 28.45" (RT)  
 Degree = 19° 37' 18.63"  
 Tangent = 114.0650  
 Length = 217.4850  
 Radius = 292.0000  
 External = 21.4882  
 Long Chord = 212.4927  
 Mid. Ord. = 20.0152  
 P.C. Station 3+99.39 N 1,895,175.6235 E 1,107,422.3926  
 P.T. Station 6+16.88 N 1,895,060.8489 E 1,107,243.5632  
 C.C. N 1,895,347.1328 E 1,107,186.0696  
 Back = S 35° 58' 11.79" W  
 Ahead = S 78° 38' 40.25" W  
 Chord Bear = S 57° 18' 26.02" W

Course from PT E\_MANN\_D-2 to PC E\_MANN\_D-3 S 78° 38' 40.25" W Dist 121.3828

Curve Data

Curve E\_MANN\_D-3  
 P.I. Station 7+83.42 N 1,895,028.0572 E 1,107,080.2800  
 Delta = 25° 50' 30.97" (LT)  
 Degree = 29° 06' 22.73"  
 Tangent = 45.1605  
 Length = 88.7846  
 Radius = 196.8500  
 External = 5.1138  
 Long Chord = 88.0340  
 Mid. Ord. = 4.9844  
 P.C. Station 7+38.26 N 1,895,036.9491 E 1,107,124.5565  
 P.T. Station 8+27.04 N 1,895,000.7549 E 1,107,044.3071  
 C.C. N 1,894,843.9526 E 1,107,163.3154  
 Back = S 78° 38' 40.25" W  
 Ahead = S 52° 48' 09.27" W  
 Chord Bear = S 65° 43' 24.76" W

FILE NAME =	DESIGNED - AJP	REVISED -	<b>benesch</b>	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>ALIGNMENT PLAN I-290 RAMP CURVE DATA</b>				F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
...\\explr\ABC_C2_290_R_Data\exel\gr_25.dgn	DRAWN - TMB	REVISED -			290	(30311, ETC., 3838RS-5	COOK	298	52				
USER NAME = tblank	CHECKED - JMM	REVISED -			CONTRACT NO. 60G52								
PLOT DATE = 11/12/2009	DATE = 10/16/09	REVISED -			SCALE: N.T.S.	SHEET NO. 25 OF 36 SHEETS	STA. TO STA.	FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT				

**RAMP E\_MANN\_E**

Curve Data

Curve E\_MANN\_E-1  
 P.I. Station 0+54.77 N 1,895,498.2228 E 1,105,568.4976  
 Delta = 6° 16' 10.14" (LT)  
 Degree = 5° 43' 46.48"  
 Tangent = 54.7662  
 Length = 109.4231  
 Radius = 1,000.0000  
 External = 1.4985  
 Long Chord = 109.3686  
 Mid. Ord. = 1.4963  
 P.C. Station 0+00.00 N 1,895,500.6296 E 1,105,513.7843  
 P.T. Station 1+09.42 N 1,895,501.8053 E 1,105,623.1466  
 C.C. N 1,896,499.6635 E 1,105,557.7314  
 Back = S 87° 28' 52.34" E  
 Ahead = N 86° 14' 57.52" E  
 Chord Bear = N 89° 23' 02.59" E

Course from PT E\_MANN\_E-1 to PC E\_MANN\_E-2 N 86° 14' 57.52" E Dist 573.2985

Curve Data

Curve E\_MANN\_E-2  
 P.I. Station 8+05.33 N 1,895,545.9154 E 1,106,317.6479  
 Delta = 28° 54' 01.91" (LT)  
 Degree = 12° 02' 31.44"  
 Tangent = 122.6089  
 Length = 239.9964  
 Radius = 475.7969  
 External = 15.5438  
 Long Chord = 237.4603  
 Mid. Ord. = 15.0520  
 P.C. Station 6+82.72 N 1,895,539.3077 E 1,106,195.2172  
 P.T. Station 9+22.72 N 1,895,610.8698 E 1,106,421.6377  
 C.C. N 1,896,014.4132 E 1,106,169.5753  
 Back = N 86° 54' 38.49" E  
 Ahead = N 58° 00' 36.58" E  
 Chord Bear = N 72° 27' 37.54" E

**RAMP E\_MANN\_F**

Point 930 N 1,895,597.7354 E 1,106,430.9752 Sta 9+22.71

Course from 930 to PC E\_MANN\_F-1 N 57° 55' 03.54" E Dist 406.1865

Curve Data

Curve E\_MANN\_F-1  
 P.I. Station 13+76.48 N 1,895,838.7511 E 1,106,815.4504  
 Delta = 21° 53' 26.59" (RT)  
 Degree = 23° 17' 06.19"  
 Tangent = 47.5862  
 Length = 94.0119  
 Radius = 246.0625  
 External = 4.5591  
 Long Chord = 93.4411  
 Mid. Ord. = 4.4762  
 P.C. Station 13+28.90 N 1,895,813.4763 E 1,106,775.1312  
 P.T. Station 14+22.91 N 1,895,847.1711 E 1,106,862.2857  
 C.C. N 1,895,604.9911 E 1,106,905.8243  
 Back = N 57° 55' 03.54" E  
 Ahead = N 79° 48' 30.13" E  
 Chord Bear = N 68° 51' 46.83" E

**RAMP E\_MANN\_G**

Curve Data

Curve E\_MANN\_G-1  
 P.I. Station 1+84.19 N 1,895,876.2640 E 1,108,808.5350  
 Delta = 4° 18' 31.61" (LT)  
 Degree = 1° 10' 12.68"  
 Tangent = 184.1928  
 Length = 368.2121  
 Radius = 4,896.2806  
 External = 3.4633  
 Long Chord = 368.1253  
 Mid. Ord. = 3.4609  
 P.C. Station 0+00.00 N 1,895,884.6125 E 1,108,992.5386  
 P.T. Station 3+68.21 N 1,895,854.1147 E 1,108,625.6788  
 C.C. N 1,890,993.3637 E 1,109,214.4606  
 Back = S 87° 24' 07.92" W  
 Ahead = S 83° 05' 36.31" W  
 Chord Bear = S 85° 14' 52.12" W

Course from PT E\_MANN\_G-1 to PC E\_MANN\_G-2 S 82° 19' 01.11" W Dist 218.2901

Curve Data

Curve E\_MANN\_G-2  
 P.I. Station 6+58.09 N 1,895,812.5501 E 1,108,338.8391  
 Delta = 0° 23' 26.85" (LT)  
 Degree = 0° 16' 22.61"  
 Tangent = 71.5879  
 Length = 143.1753  
 Radius = 20,991.5350  
 External = 0.1221  
 Long Chord = 143.1750  
 Mid. Ord. = 0.1221  
 P.C. Station 5+86.50 N 1,895,824.9309 E 1,108,409.3483  
 P.T. Station 7+29.68 N 1,895,799.6887 E 1,108,268.4160  
 C.C. N 1,875,149.7072 E 1,112,039.7292  
 Back = S 80° 02' 27.27" W  
 Ahead = S 79° 39' 00.42" W  
 Chord Bear = S 79° 50' 43.84" W

Curve Data

Curve E\_MANN\_G-3  
 P.I. Station 9+26.71 N 1,895,763.7592 E 1,108,074.6870  
 Delta = 1° 55' 05.82" (LT)  
 Degree = 0° 29' 12.62"  
 Tangent = 197.0326  
 Length = 394.0284  
 Radius = 11,768.9444  
 External = 1.6492  
 Long Chord = 394.0100  
 Mid. Ord. = 1.6490  
 P.C. Station 7+29.68 N 1,895,799.6887 E 1,108,268.4160  
 P.T. Station 11+23.71 N 1,895,721.3648 E 1,107,882.2694  
 C.C. N 1,884,228.0736 E 1,110,414.5232  
 Back = S 79° 29' 35.27" W  
 Ahead = S 77° 34' 29.45" W  
 Chord Bear = S 78° 32' 02.36" W

Curve Data

Curve E\_MANN\_G-4  
 P.I. Station 13+02.15 N 1,895,682.9693 E 1,107,708.0011  
 Delta = 36° 23' 04.13" (RT)  
 Degree = 10° 33' 06.15"  
 Tangent = 178.4478  
 Length = 344.8208  
 Radius = 543.0000  
 External = 28.5703  
 Long Chord = 339.0560  
 Mid. Ord. = 27.1422  
 P.C. Station 11+23.71 N 1,895,721.3648 E 1,107,882.2694  
 P.T. Station 14+68.53 N 1,895,755.4348 E 1,107,544.9294  
 C.C. N 1,896,251.6466 E 1,107,765.4353  
 Back = S 77° 34' 29.45" W  
 Ahead = N 66° 02' 26.41" W  
 Chord Bear = N 84° 13' 58.48" W

FILE NAME =	DESTONED - AJP	REVISED -
...\\excaln_abc_c2_290_r_data.exe\ign_26.dgn	DRAWN - TMB	REVISED -
USER NAME = tblank	CHECKED - JWM	REVISED -
PLOT DATE = 11/12/2009	DATE - 10/16/09	REVISED -

**benesch**

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

<b>ALIGNMENT PLAN I-290 RAMP CURVE DATA</b>			
SCALE: N.T.S.	SHEET NO. 26 OF 36 SHEETS	STA. TO STA.	

F.A.I. RITE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	(3031.1, ETC., 3838RS-5	COOK	298	53
CONTRACT NO. 60G52				
FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT				

**RAMP E\_MANN\_G**

Curve Data

Curve E\_MANN\_G-5  
 P.I. Station 14+70.18 N 1,895,756.1068 E 1,107,543.4173  
 Delta = 0° 20' 00.31" (RT)  
 Degree = 10° 04' 29.53"  
 Tangent = 1.6547  
 Length = 3.3094  
 Radius = 568.7000  
 External = 0.0024  
 Long Chord = 3.3094  
 Mid. Ord. = 0.0024  
 P.C. Station 14+68.53 N 1,895,755.4348 E 1,107,544.9294  
 P.T. Station 14+71.84 N 1,895,756.7875 E 1,107,541.9091  
 C.C. = N 1,896,275.1322 E 1,107,775.8717  
 Back = N 66° 02' 26.41" W  
 Ahead = N 65° 42' 26.10" W  
 Chord Bear = N 65° 52' 26.26" W

Course from PT E\_MANN\_G-5 to 941 N 65° 42' 26.10" W Dist 127.2191

Point 941 N 1,895,809.1253 E 1,107,425.9546 Sta 15+99.06

Course from 941 to PC E\_MANN\_G-6 N 64° 32' 45.93" W Dist 103.0040

Curve Data

Curve E\_MANN\_G-6  
 P.I. Station 17+86.34 N 1,895,889.6168 E 1,107,256.8508  
 Delta = 27° 51' 08.52" (LT)  
 Degree = 16° 51' 25.75"  
 Tangent = 84.2791  
 Length = 165.2258  
 Radius = 339.8900  
 External = 10.2931  
 Long Chord = 163.6038  
 Mid. Ord. = 9.9905  
 P.C. Station 17+02.06 N 1,895,853.3949 E 1,107,332.9490  
 P.T. Station 18+67.28 N 1,895,886.0898 E 1,107,172.6455  
 C.C. = N 1,895,546.4976 E 1,107,186.8695  
 Back = N 64° 32' 45.93" W  
 Ahead = S 87° 36' 05.54" W  
 Chord Bear = N 78° 28' 20.20" W

Course from PT E\_MANN\_G-6 to 942 S 87° 36' 05.54" W Dist 127.6791

Point 942 N 1,895,880.7466 E 1,107,045.0783 Sta 19+94.96

Course from 942 to 943 N 85° 22' 05.22" E Dist 45.2593

Point 943 N 1,895,884.4014 E 1,107,090.1897 Sta 20+40.22

Course from 943 to 944 N 4° 35' 20.95" W Dist 1.9682

Point 944 N 1,895,886.3634 E 1,107,090.0323 Sta 20+42.19

**RAMP E\_MANN\_H**

Curve Data

Curve E\_MANN\_H-1  
 P.I. Station 0+49.39 N 1,895,563.3230 E 1,107,176.5309  
 Delta = 11° 56' 11.83" (LT)  
 Degree = 12° 07' 39.48"  
 Tangent = 49.3913  
 Length = 98.4250  
 Radius = 472.4400  
 External = 2.5748  
 Long Chord = 98.2471  
 Mid. Ord. = 2.5608  
 P.C. Station 0+00.00 N 1,895,559.7879 E 1,107,127.2663  
 P.T. Station 0+98.42 N 1,895,576.9710 E 1,107,223.9991  
 C.C. = N 1,896,031.0162 E 1,107,093.4522  
 Back = N 85° 53' 44.31" E  
 Ahead = N 73° 57' 32.48" E  
 Chord Bear = N 79° 55' 38.39" E

Curve Data

Curve E\_MANN\_H-2  
 P.I. Station 1+39.85 N 1,895,588.4184 E 1,107,263.8135  
 Delta = 19° 53' 39.73" (LT)  
 Degree = 24° 15' 18.95"  
 Tangent = 41.4275  
 Length = 82.0208  
 Radius = 236.2200  
 External = 3.6052  
 Long Chord = 81.6094  
 Mid. Ord. = 3.5510  
 P.C. Station 0+98.42 N 1,895,576.9710 E 1,107,223.9991  
 P.T. Station 1+80.45 N 1,895,612.7311 E 1,107,297.3565  
 C.C. = N 1,895,803.9936 E 1,107,158.7256  
 Back = N 73° 57' 32.48" E  
 Ahead = N 54° 03' 52.75" E  
 Chord Bear = N 64° 00' 42.62" E

Curve Data

Curve E\_MANN\_H-3  
 P.I. Station 2+10.60 N 1,895,630.4302 E 1,107,321.7752  
 Delta = 28° 38' 52.40" (LT)  
 Degree = 48° 30' 37.97"  
 Tangent = 30.1584  
 Length = 59.0550  
 Radius = 118.1099  
 External = 3.7896  
 Long Chord = 58.4417  
 Mid. Ord. = 3.6718  
 P.C. Station 1+80.45 N 1,895,612.7311 E 1,107,297.3565  
 P.T. Station 2+39.50 N 1,895,657.6696 E 1,107,334.7191  
 C.C. = N 1,895,708.3623 E 1,107,228.0411  
 Back = N 54° 03' 52.75" E  
 Ahead = N 25° 25' 00.35" E  
 Chord Bear = N 39° 44' 26.55" E

Curve Data

Curve E\_MANN\_H-4  
 P.I. Station 3+16.58 N 1,895,727.2911 E 1,107,367.8028  
 Delta = 76° 07' 59.09" (LT)  
 Degree = 58° 12' 45.45"  
 Tangent = 77.0823  
 Length = 130.7845  
 Radius = 98.4250  
 External = 26.5916  
 Long Chord = 121.3730  
 Mid. Ord. = 20.9355  
 P.C. Station 2+39.50 N 1,895,657.6696 E 1,107,334.7191  
 P.T. Station 3+70.29 N 1,895,776.0965 E 1,107,308.1395  
 C.C. = N 1,895,699.9135 E 1,107,245.8207  
 Back = N 25° 25' 00.35" E  
 Ahead = N 50° 42' 58.74" W  
 Chord Bear = N 12° 38' 59.19" W

**RAMP E\_MANN\_H**

Curve Data

Curve E\_MANN\_H-5  
 P.I. Station 5+05.80 N 1,895,861.9010 E 1,107,203.2461  
 Delta = 69° 05' 22.18" (LT)  
 Degree = 29° 06' 22.75"  
 Tangent = 135.5177  
 Length = 237.3694  
 Radius = 196.8500  
 External = 42.1374  
 Long Chord = 223.2474  
 Mid. Ord. = 34.7079  
 P.C. Station 3+70.29 N 1,895,776.0965 E 1,107,308.1395  
 P.T. Station 6+07.65 N 1,895,794.5403 E 1,107,085.6553  
 C.C. = N 1,895,623.7306 E 1,107,183.5019  
 Back = N 50° 42' 58.74" W  
 Ahead = S 60° 11' 39.08" W  
 Chord Bear = N 85° 15' 39.83" W

Curve Data

Curve E\_MANN\_H-6  
 P.I. Station 6+32.05 N 1,895,782.4118 E 1,107,064.4828  
 Delta = 21° 03' 56.01" (LT)  
 Degree = 43° 39' 34.04"  
 Tangent = 24.4003  
 Length = 48.2497  
 Radius = 131.2334  
 External = 2.2491  
 Long Chord = 47.9784  
 Mid. Ord. = 2.2112  
 P.C. Station 6+07.65 N 1,895,794.5403 E 1,107,085.6553  
 P.T. Station 6+55.90 N 1,895,763.4837 E 1,107,049.0846  
 C.C. = N 1,895,680.6671 E 1,107,150.8864  
 Back = S 60° 11' 39.08" W  
 Ahead = S 39° 07' 43.07" W  
 Chord Bear = S 49° 39' 41.07" W

Curve Data

Curve E\_MANN\_H-7  
 P.I. Station 6+89.10 N 1,895,737.7327 E 1,107,028.1359  
 Delta = 21° 25' 08.34" (LT)  
 Degree = 32° 38' 33.37"  
 Tangent = 33.1958  
 Length = 65.6167  
 Radius = 175.5245  
 External = 3.1115  
 Long Chord = 65.2352  
 Mid. Ord. = 3.0573  
 P.C. Station 6+55.90 N 1,895,763.4837 E 1,107,049.0846  
 P.T. Station 7+21.52 N 1,895,706.1100 E 1,107,018.0380  
 C.C. = N 1,895,652.7166 E 1,107,185.2445  
 Back = S 39° 07' 43.07" W  
 Ahead = S 17° 42' 34.73" W  
 Chord Bear = S 28° 25' 08.90" W

Curve Data

Curve E\_MANN\_H-8  
 P.I. Station 7+82.89 N 1,895,647.6458 E 1,106,999.3688  
 Delta = 19° 49' 59.36" (LT)  
 Degree = 16° 19' 16.67"  
 Tangent = 61.3726  
 Length = 121.5170  
 Radius = 351.0492  
 External = 5.3244  
 Long Chord = 120.9112  
 Mid. Ord. = 5.2448  
 P.C. Station 7+21.52 N 1,895,706.1100 E 1,107,018.0380  
 P.T. Station 8+43.04 N 1,895,586.3154 E 1,107,001.6429  
 C.C. = N 1,895,599.3231 E 1,107,352.4510  
 Back = S 17° 42' 34.73" W  
 Ahead = S 2° 07' 24.63" E  
 Chord Bear = S 7° 47' 35.05" W

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...expln_ABC_C2_290_R_Data_exalign_27.dgn	DRAWN - TMB	REVISED -
USER NAME = tblank	CHECKED - JMM	REVISED -
PLOT DATE = 11/12/2009	DATE - 10/16/09	REVISED -

**benesch**

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

<b>ALIGNMENT PLAN I-290 RAMP CURVE DATA</b>				F.A.I. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
				290	(3031.1, ETC., 383BRS-5)	COOK	298	54
				CONTRACT NO. 60G52				
SCALE: N.T.S.	SHEET NO. 27 OF 36 SHEETS	STA.	TO STA.	FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT				

**RAMP E\_25TH\_A**

Curve Data

Curve E\_25TH\_A-1  
 P.I. Station 1+55.47 N 1,895,827.7084 E 1,110,315.1173  
 Delta = 6° 59' 49.33" (RT)  
 Degree = 2° 15' 11.08"  
 Tangent = 155.4705  
 Length = 310.5545  
 Radius = 2,543.0000  
 External = 4.7480  
 Long Chord = 310.3615  
 Mid. Ord. = 4.7392  
 P.C. Station 0+00.00 N 1,895,821.0997 E 1,110,159.7873  
 P.T. Station 3+10.55 N 1,895,815.3460 E 1,110,470.0955  
 C.C. N 1,893,280.3982 E 1,110,267.8858  
 Back = N 87° 33' 49.41" E  
 Ahead = S 85° 26' 21.27" E  
 Chord Bear = S 88° 56' 15.93" E

Course from PT E\_25TH\_A-1 to 1261 S 85° 26' 21.27" E Dist 140.3606

Point 1261 N 1,895,804.1851 E 1,110,610.0117 Sta 4+50.92

Course from 1261 to 1262 S 85° 44' 47.92" E Dist 83.9153

Point 1262 N 1,895,797.9613 E 1,110,693.6959 Sta 5+34.83

Course from 1262 to 1263 S 85° 08' 13.52" E Dist 84.4475

Point 1263 N 1,895,790.8025 E 1,110,777.8395 Sta 6+19.28

Course from 1263 to 1264 S 85° 28' 07.59" E Dist 46.3455

Point 1264 N 1,895,787.1411 E 1,110,824.0402 Sta 6+65.62

**RAMP E\_25TH\_B**

Point 1270 N 1,895,947.0653 E 1,110,294.2906 Sta 0+00.00

Course from 1270 to PC E\_25TH\_B-1 N 86° 37' 04.31" E Dist 88.9696

Curve Data

Curve E\_25TH\_B-1  
 P.I. Station 1+68.20 N 1,895,956.9881 E 1,110,462.1940  
 Delta = 8° 14' 20.91" (LT)  
 Degree = 5° 12' 31.35"  
 Tangent = 79.2267  
 Length = 158.1802  
 Radius = 1,100.0000  
 External = 2.8494  
 Long Chord = 158.0439  
 Mid. Ord. = 2.8421  
 P.C. Station 0+88.97 N 1,895,952.3141 E 1,110,383.1053  
 P.T. Station 2+47.15 N 1,895,972.9477 E 1,110,539.7965  
 C.C. N 1,897,050.3982 E 1,110,318.2106  
 Back = N 86° 37' 04.31" E  
 Ahead = N 78° 22' 43.40" E  
 Chord Bear = N 82° 29' 53.85" E

Curve Data

Curve E\_25TH\_B-2  
 P.I. Station 2+89.43 N 1,895,981.4651 E 1,110,581.2123  
 Delta = 0° 04' 34.43" (LT)  
 Degree = 0° 05' 24.52"  
 Tangent = 42.2825  
 Length = 84.5651  
 Radius = 63,559.0260  
 External = 0.0141  
 Long Chord = 84.5651  
 Mid. Ord. = 0.0141  
 P.C. Station 2+47.15 N 1,895,972.9477 E 1,110,539.7965  
 P.T. Station 3+31.71 N 1,895,990.0377 E 1,110,622.6167  
 C.C. N 1,958,229.0457 E 1,097,736.3580  
 Back = N 78° 22' 43.40" E  
 Ahead = N 78° 18' 08.96" E  
 Chord Bear = N 78° 20' 26.18" E

Course from PT E\_25TH\_B-2 to 1271 N 77° 22' 44.74" E Dist 199.0278

Point 1271 N 1,896,033.5251 E 1,110,816.8354 Sta 5+30.74

**RAMP E\_25TH\_C**

Point 1280 N 1,895,902.1657 E 1,112,174.1276 Sta 0+00.00

Course from 1280 to PC E\_25TH\_C-1 S 85° 46' 00.46" W Dist 180.2220

Curve Data

Curve E\_25TH\_C-1  
 P.I. Station 3+16.64 N 1,895,845.1610 E 1,111,865.1679  
 Delta = 96° 53' 57.58" (LT)  
 Degree = 47° 23' 18.20"  
 Tangent = 136.4186  
 Length = 204.4790  
 Radius = 120.9068  
 External = 61.3800  
 Long Chord = 180.9668  
 Mid. Ord. = 40.7120  
 P.C. Station 1+80.22 N 1,895,888.8624 E 1,111,994.3972  
 P.T. Station 3+84.70 N 1,895,722.1171 E 1,111,924.0766  
 C.C. N 1,895,774.3274 E 1,112,033.1295  
 Back = S 71° 18' 57.66" W  
 Ahead = S 25° 34' 59.92" E  
 Chord Bear = S 22° 51' 58.87" W

Curve Data

Curve E\_25TH\_C-2  
 P.I. Station 5+35.07 N 1,895,593.3338 E 1,112,001.7114  
 Delta = 69° 45' 05.56" (LT)  
 Degree = 26° 33' 23.48"  
 Tangent = 150.3739  
 Length = 262.6532  
 Radius = 215.7503  
 External = 47.2335  
 Long Chord = 246.7316  
 Mid. Ord. = 38.7501  
 P.C. Station 3+84.70 N 1,895,722.1171 E 1,111,924.0766  
 P.T. Station 6+47.35 N 1,895,621.6000 E 1,112,149.4048  
 C.C. N 1,895,833.5044 E 1,112,108.8496  
 Back = S 31° 04' 58.66" E  
 Ahead = N 79° 09' 55.78" E  
 Chord Bear = S 65° 57' 31.44" E

Curve Data

Curve E\_25TH\_C-3  
 P.I. Station 7+01.28 N 1,895,631.7366 E 1,112,202.3694  
 Delta = 39° 53' 57.41" (LT)  
 Degree = 38° 33' 56.97"  
 Tangent = 53.9258  
 Length = 103.4576  
 Radius = 148.5662  
 External = 9.4841  
 Long Chord = 101.3798  
 Mid. Ord. = 8.9150  
 P.C. Station 6+47.35 N 1,895,621.6000 E 1,112,149.4048  
 P.T. Station 7+50.81 N 1,895,673.4867 E 1,112,236.5004  
 C.C. N 1,895,767.5179 E 1,112,121.4784  
 Back = N 79° 09' 55.78" E  
 Ahead = N 39° 15' 58.37" E  
 Chord Bear = N 59° 12' 57.07" E

Curve Data

Curve E\_25TH\_C-4  
 P.I. Station 8+33.60 N 1,895,737.3649 E 1,112,289.1566  
 Delta = 40° 21' 30.30" (LT)  
 Degree = 25° 26' 11.09"  
 Tangent = 82.7834  
 Length = 158.6640  
 Radius = 225.2510  
 External = 14.7305  
 Long Chord = 155.4041  
 Mid. Ord. = 13.8263  
 P.C. Station 7+50.81 N 1,895,673.4867 E 1,112,236.5004  
 P.T. Station 9+09.48 N 1,895,820.1390 E 1,112,287.9158  
 C.C. N 1,895,816.7627 E 1,112,062.6901  
 Back = N 39° 29' 58.44" E  
 Ahead = N 0° 51' 31.86" W  
 Chord Bear = N 19° 19' 13.29" E

FILE NAME =	DESIGNED - AJP	REVISED -	<b>benesch</b>	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>ALIGNMENT PLAN I-290 RAMP CURVE DATA</b>			F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
...\\exp\in_ABC\C2_290_R_Data\exalign_28.dgn	DRAWN - TMB	REVISED -			290	(3031, ETC., 3838)RS-5	COOK	298	55			
USER NAME = tbiark	CHECKED - JMM	REVISED -			CONTRACT NO. 60C52							
PLOT DATE = 11/12/2009	DATE - 10/16/09	REVISED -			SCALE: N.T.S.	SHEET NO. 28 OF 36 SHEETS	STA. TO STA.	FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			

**RAMP E\_25TH\_D**

Point 1290 N 1,896,012.2594 E 1,112,273.3279 Sta 0+00.00

Course from 1290 to PC E\_25TH.D-1 S 88° 09' 22.62" W Dist 55.7992

Curve Data

Curve E\_25TH.D-1  
 P.I. Station 2+13.34 N 1,896,003.6140 E 1,112,060.1643  
 Delta = 42° 20' 44.60" (RT)  
 Degree = 14° 05' 11.75"  
 Tangent = 157.5423  
 Length = 300.6100  
 Radius = 406.7396  
 External = 29.4446  
 Long Chord = 293.8148  
 Mid. Ord. = 27.4570  
 P.C. Station 0+55.80 N 1,896,010.4642 E 1,112,217.5576  
 P.T. Station 3+56.41 N 1,896,104.5716 E 1,111,939.2215  
 C.C. N 1,896,416.8191 E 1,112,199.8719  
 Back = S 87° 30' 28.45" W  
 Ahead = N 50° 08' 46.94" W  
 Chord Bear = N 71° 19' 09.25" W

Curve Data

Curve E\_25TH.D-2  
 P.I. Station 4+29.00 N 1,896,156.5456 E 1,111,888.5478  
 Delta = 57° 07' 15.68" (RT)  
 Degree = 42° 57' 52.47"  
 Tangent = 72.5888  
 Length = 132.9491  
 Radius = 133.3559  
 External = 18.4760  
 Long Chord = 127.5113  
 Mid. Ord. = 16.2277  
 P.C. Station 3+56.41 N 1,896,104.5716 E 1,111,939.2215  
 P.T. Station 4+89.36 N 1,896,227.3174 E 1,111,904.6875  
 C.C. N 1,896,197.6664 E 1,112,034.7052  
 Back = N 44° 16' 27.30" W  
 Ahead = N 12° 50' 48.38" E  
 Chord Bear = N 15° 42' 49.46" W

Curve Data

Curve E\_25TH.D-3  
 P.I. Station 5+96.17 N 1,896,327.4119 E 1,111,941.9613  
 Delta = 66° 55' 50.76" (RT)  
 Degree = 35° 27' 32.17"  
 Tangent = 106.8094  
 Length = 188.7557  
 Radius = 161.5835  
 External = 32.1108  
 Long Chord = 178.2049  
 Mid. Ord. = 26.7874  
 P.C. Station 4+89.36 N 1,896,227.3174 E 1,111,904.6875  
 P.T. Station 6+78.11 N 1,896,332.3401 E 1,112,048.6570  
 C.C. N 1,896,170.9287 E 1,112,056.1125  
 Back = N 20° 25' 28.74" E  
 Ahead = N 87° 21' 19.50" E  
 Chord Bear = N 53° 53' 24.12" E

Curve Data

Curve E\_25TH.D-4  
 P.I. Station 7+54.42 N 1,896,339.9313 E 1,112,124.5818  
 Delta = 29° 55' 04.82" (RT)  
 Degree = 20° 03' 45.31"  
 Tangent = 76.3034  
 Length = 149.1234  
 Radius = 285.5852  
 External = 10.0178  
 Long Chord = 147.4350  
 Mid. Ord. = 9.6783  
 P.C. Station 6+78.11 N 1,896,332.3401 E 1,112,048.6570  
 P.T. Station 8+27.24 N 1,896,308.6427 E 1,112,194.1751  
 C.C. N 1,896,048.1717 E 1,112,077.0691  
 Back = N 84° 17' 25.29" E  
 Ahead = S 65° 47' 29.89" E  
 Chord Bear = S 80° 45' 02.30" E

**RAMP E\_25TH\_D**

Curve Data

Curve E\_25TH.D-5  
 P.I. Station 8+73.64 N 1,896,289.0066 E 1,112,236.2224  
 Delta = 39° 37' 36.85" (RT)  
 Degree = 44° 28' 58.77"  
 Tangent = 46.4064  
 Length = 89.0833  
 Radius = 128.8038  
 External = 8.1048  
 Long Chord = 87.3184  
 Mid. Ord. = 7.6250  
 P.C. Station 8+27.24 N 1,896,308.6427 E 1,112,194.1751  
 P.T. Station 9+16.32 N 1,896,247.0655 E 1,112,256.0843  
 C.C. N 1,896,191.9376 E 1,112,139.6741  
 Back = S 64° 58' 03.13" E  
 Ahead = S 25° 20' 26.27" E  
 Chord Bear = S 45° 09' 14.70" E

Curve Data

Curve E\_25TH.D-6  
 P.I. Station 9+55.29 N 1,896,210.9602 E 1,112,270.7607  
 Delta = 14° 37' 14.00" (RT)  
 Degree = 18° 51' 32.96"  
 Tangent = 38.9742  
 Length = 77.5250  
 Radius = 303.8088  
 External = 2.4897  
 Long Chord = 77.3148  
 Mid. Ord. = 2.4695  
 P.C. Station 9+16.32 N 1,896,247.0655 E 1,112,256.0843  
 P.T. Station 9+93.85 N 1,896,172.3195 E 1,112,275.8483  
 C.C. N 1,896,132.6611 E 1,111,974.6391  
 Back = S 22° 07' 16.38" E  
 Ahead = S 7° 30' 02.38" E  
 Chord Bear = S 14° 48' 39.38" E

**RAMP E\_25TH\_E**

Point 1300 N 1,896,060.4203 E 1,113,054.8552 Sta 0+00.00

Course from 1300 to 1301 N 89° 39' 43.70" W Dist 30.2231

Point 1301 N 1,896,060.5986 E 1,113,024.6326 Sta 0+30.22

Course from 1301 to 1302 N 85° 07' 51.72" W Dist 270.3451

Point 1302 N 1,896,083.5447 E 1,112,755.2631 Sta 3+00.57

Course from 1302 to PC E\_25TH.E-1 N 86° 28' 45.76" W Dist 292.0174

Curve Data

Curve E\_25TH.E-1  
 P.I. Station 7+12.16 N 1,896,101.2628 E 1,112,344.2208  
 Delta = 83° 22' 29.59" (RT)  
 Degree = 42° 40' 20.95"  
 Tangent = 119.5762  
 Length = 195.3832  
 Radius = 134.2687  
 External = 45.5272  
 Long Chord = 178.5952  
 Mid. Ord. = 33.9990  
 P.C. Station 5+92.59 N 1,896,101.4769 E 1,112,463.7968  
 P.T. Station 7+87.97 N 1,896,220.0156 E 1,112,330.2123  
 C.C. N 1,896,235.7453 E 1,112,463.5564  
 Back = S 89° 53' 50.74" W  
 Ahead = N 6° 43' 39.68" W  
 Chord Bear = N 48° 24' 54.47" W

FILE NAME =	DESIGNED - AJP	REVISED -
...\\exp\in_abc\c2_290\l_r_data\exalign_29.dgn	DRAWN - TMB	REVISED -
USER NAME = tblank	CHECKED - JMM	REVISED -
PLOT DATE = 11/12/2009	DATE - 10/16/09	REVISED -

**benesch**

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**ALIGNMENT PLAN  
I-290 RAMP CURVE DATA**

SCALE: N.T.S. SHEET NO. 29 OF 36 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	(3031.1, ETC., 3838)RS-5	COOK	298	56
FED. ROAD DIST. NO.   ILLINOIS   FED. AID PROJECT			CONTRACT NO. 60G52	



RAMP E\_25TH\_G

Point 1320 N 1,895,914.4773 E 1,112,382.8372 Sta 0+00.00

Course from 1320 to PC E\_25TH\_G-1 S 87° 44' 54.47" E Dist 31.4109

Curve Data

Curve E\_25TH\_G-1
P.I. Station 1+15.69 N 1,895,909.7461 E 1,112,498.4329
Delta = 21° 38' 40.69" (RT)
Degree = 12° 59' 44.06"
Tangent = 84.2817
Length = 166.5539
Radius = 440.8869
External = 7.9835
Long Chord = 165.5653
Mid. Ord. = 7.8415
P.C. Station 0+31.41 N 1,895,913.2432 E 1,112,414.2238
P.T. Station 1+97.96 N 1,895,875.4352 E 1,112,575.4145
C.C. N 1,895,472.7360 E 1,112,395.9300
Back = S 87° 37' 18.94" E
Ahead = S 65° 58' 38.26" E
Chord Bear = S 76° 47' 58.60" E

Curve Data

Curve E\_25TH\_G-2
P.I. Station 2+72.08 N 1,895,846.7446 E 1,112,643.7462
Delta = 49° 40' 44.91" (RT)
Degree = 35° 47' 15.38"
Tangent = 74.1106
Length = 138.8166
Radius = 160.0995
External = 16.3211
Long Chord = 134.5089
Mid. Ord. = 14.8112
P.C. Station 1+97.96 N 1,895,875.4352 E 1,112,575.4145
P.T. Station 3+36.78 N 1,895,776.0814 E 1,112,666.0868
C.C. N 1,895,727.8195 E 1,112,513.4348
Back = S 67° 13' 25.77" E
Ahead = S 17° 32' 40.86" E
Chord Bear = S 42° 23' 03.32" E

Curve Data

Curve E\_25TH\_G-3
P.I. Station 3+83.73 N 1,895,731.0364 E 1,112,679.3365
Delta = 43° 59' 44.79" (RT)
Degree = 49° 17' 49.03"
Tangent = 46.9533
Length = 89.2464
Radius = 116.2258
External = 9.1259
Long Chord = 87.0700
Mid. Ord. = 8.4615
P.C. Station 3+36.78 N 1,895,776.0814 E 1,112,666.0868
P.T. Station 4+26.03 N 1,895,689.4281 E 1,112,657.5796
C.C. N 1,895,743.2839 E 1,112,554.5845
Back = S 16° 23' 27.02" E
Ahead = S 27° 36' 17.77" W
Chord Bear = S 5° 36' 25.38" W

Curve Data

Curve E\_25TH\_G-4
P.I. Station 4+87.60 N 1,895,635.7879 E 1,112,627.3397
Delta = 42° 42' 50.56" (RT)
Degree = 36° 23' 03.85"
Tangent = 61.5770
Length = 117.3966
Radius = 157.4735
External = 11.6112
Long Chord = 114.6968
Mid. Ord. = 10.8138
P.C. Station 4+26.03 N 1,895,689.4281 E 1,112,657.5796
P.T. Station 5+43.42 N 1,895,616.8889 E 1,112,568.7347
C.C. N 1,895,766.7620 E 1,112,520.4033
Back = S 29° 24' 44.57" W
Ahead = S 72° 07' 35.13" W
Chord Bear = S 50° 46' 09.85" W

RAMP E\_25TH\_G

Curve Data

Curve E\_25TH\_G-5
P.I. Station 5+77.13 N 1,895,605.8859 E 1,112,536.8780
Delta = 13° 01' 45.64" (RT)
Degree = 19° 24' 47.45"
Tangent = 33.7034
Length = 67.1160
Radius = 295.1385
External = 1.9181
Long Chord = 66.9714
Mid. Ord. = 1.9058
P.C. Station 5+43.42 N 1,895,616.8889 E 1,112,568.7347
P.T. Station 6+10.54 N 1,895,602.3482 E 1,112,503.3608
C.C. N 1,895,895.8564 E 1,112,472.3818
Back = S 70° 56' 44.02" W
Ahead = S 83° 58' 29.66" W
Chord Bear = S 77° 27' 36.84" W

Curve Data

Curve E\_25TH\_G-6
P.I. Station 7+04.63 N 1,895,586.5495 E 1,112,410.6053
Delta = 71° 25' 33.67" (RT)
Degree = 43° 46' 39.35"
Tangent = 94.0913
Length = 163.1566
Radius = 130.8792
External = 30.3118
Long Chord = 152.7951
Mid. Ord. = 24.6117
P.C. Station 6+10.54 N 1,895,602.3482 E 1,112,503.3608
P.T. Station 7+73.70 N 1,895,669.4842 E 1,112,366.0842
C.C. N 1,895,731.3693 E 1,112,481.3850
Back = S 80° 20' 01.52" W
Ahead = N 28° 14' 24.81" W
Chord Bear = N 63° 57' 11.64" W

Curve Data

Curve E\_25TH\_G-7
P.I. Station 8+11.27 N 1,895,705.4149 E 1,112,355.2494
Delta = 9° 29' 21.36" (RT)
Degree = 12° 39' 27.97"
Tangent = 37.5699
Length = 74.9679
Radius = 452.6530
External = 1.5565
Long Chord = 74.8823
Mid. Ord. = 1.5511
P.C. Station 7+73.70 N 1,895,669.4412 E 1,112,366.0842
P.T. Station 8+48.66 N 1,895,742.6826 E 1,112,350.4936
C.C. N 1,895,799.9815 E 1,112,799.5055
Back = N 16° 45' 41.56" W
Ahead = N 7° 16' 20.20" W
Chord Bear = N 12° 01' 00.88" W

Course from PT E\_25TH\_G-7 to 1321 N 8° 19' 37.44" W Dist 71.1656

Point 1321 N 1,895,813.0979 E 1,112,340.1872 Sta 9+19.83

RAMP E\_25TH\_H

Point 1330 N 1,895,943.2235 E 1,113,067.0833 Sta 0+00.00

Course from 1330 to PC E\_25TH\_H-1 S 83° 37' 03.65" W Dist 34.0000

Curve Data

Curve E\_25TH\_H-1
P.I. Station 1+47.50 N 1,895,921.5611 E 1,112,921.2101
Delta = 47° 11' 33.91" (LT)
Degree = 22° 03' 01.61"
Tangent = 113.5015
Length = 214.0218
Radius = 259.8395
External = 23.7080
Long Chord = 208.0229
Mid. Ord. = 21.7257
P.C. Station 0+34.00 N 1,895,939.4440 E 1,113,033.2940
P.T. Station 2+48.02 N 1,895,827.1794 E 1,112,858.1650
C.C. N 1,895,682.8498 E 1,113,074.2334
Back = S 80° 56' 05.70" W
Ahead = S 33° 44' 31.79" W
Chord Bear = S 57° 20' 18.74" W

Course from PT E\_25TH\_H-1 to PC E\_25TH\_H-2 S 32° 37' 42.19" W Dist 66.3334

Curve Data

Curve E\_25TH\_H-2
P.I. Station 4+40.78 N 1,895,664.8380 E 1,112,754.2300
Delta = 20° 03' 18.60" (RT)
Degree = 8° 00' 48.22"
Tangent = 126.4287
Length = 250.2705
Radius = 715.0000
External = 11.0917
Long Chord = 248.9948
Mid. Ord. = 10.9223
P.C. Station 3+14.36 N 1,895,771.3144 E 1,112,822.3988
P.T. Station 5+64.63 N 1,895,588.1948 E 1,112,653.6813
C.C. N 1,896,156.8339 E 1,112,220.2363
Back = S 32° 37' 42.19" W
Ahead = S 52° 41' 00.78" W
Chord Bear = S 42° 39' 21.48" W

Curve Data

Curve E\_25TH\_H-3
P.I. Station 6+59.28 N 1,895,529.1693 E 1,112,579.6816
Delta = 15° 07' 57.32" (RT)
Degree = 8° 02' 24.62"
Tangent = 94.6570
Length = 188.2122
Radius = 712.6188
External = 6.2591
Long Chord = 187.6657
Mid. Ord. = 6.2046
P.C. Station 5+64.63 N 1,895,588.1948 E 1,112,653.6813
P.T. Station 7+52.84 N 1,895,491.5086 E 1,112,492.8391
C.C. N 1,896,145.2961 E 1,112,209.3125
Back = S 51° 25' 21.29" W
Ahead = S 66° 33' 18.61" W
Chord Bear = S 58° 59' 19.95" W

Course from PT E\_25TH\_H-3 to PC E\_25TH\_H-4 S 69° 09' 53.66" W Dist 52.2731

Curve Data

Curve E\_25TH\_H-4
P.I. Station 8+73.71 N 1,895,451.3535 E 1,112,378.8633
Delta = 55° 29' 29.90" (LT)
Degree = 43° 56' 10.81"
Tangent = 68.5980
Length = 126.3001
Radius = 130.4064
External = 16.9419
Long Chord = 121.4214
Mid. Ord. = 14.9939
P.C. Station 8+05.11 N 1,895,472.9161 E 1,112,443.9843
P.T. Station 9+31.41 N 1,895,385.4753 E 1,112,359.7390
C.C. N 1,895,349.1196 E 1,112,484.9751
Back = S 71° 40' 46.26" W
Ahead = S 16° 11' 16.36" W
Chord Bear = S 43° 56' 01.31" W

Table with 4 columns: FILE NAME, DESIGNED, DRAWN, USER, PLOT DATE and their corresponding values.



STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

ALIGNMENT PLAN I-290 RAMP CURVE DATA. Table with columns: SCALE, SHEET NO., STA., TO STA.

Table with 5 columns: F.A.I. RTE., SECTION, COUNTY, TOTAL SHEETS, SHEET NO. and their corresponding values.

**RAMP E\_17TH\_A**

Curve Data

Curve E\_17TH\_A-1  
 P.I. Station = 0+45.08 N 1,896,044.0246 E 1,113,754.3198  
 Delta = 2° 55' 33.09" (LT)  
 Degree = 3° 14' 46.47"  
 Tangent = 45.0751  
 Length = 90.1306  
 Radius = 1,764.9886  
 External = 0.5755  
 Long Chord = 90.1208  
 Mid. Ord. = 0.5753  
 P.C. Station = 0+00.00 N 1,896,047.4567 E 1,113,709.3755  
 P.T. Station = 0+90.13 N 1,896,042.8911 E 1,113,799.3806  
 C.C. = N 1,897,807.3215 E 1,113,843.7653  
 Back = S 85° 37' 59.37" E  
 Ahead = S 88° 33' 32.46" E  
 Chord Bear = S 87° 05' 45.91" E

Course from PT E\_17TH\_A-1 to 1351 N 89° 00' 11.06" E Dist 355.6184

Point 1351 N 1,896,049.0784 E 1,114,154.9452 Sta 4+45.75

**RAMP E\_17TH\_B**

Curve Data

Curve E\_17TH\_B-1  
 P.I. Station = 1+04.18 N 1,895,881.0815 E 1,114,166.1180  
 Delta = 7° 10' 54.95" (RT)  
 Degree = 3° 27' 05.34"  
 Tangent = 104.1777  
 Length = 208.0825  
 Radius = 1,660.0336  
 External = 3.2657  
 Long Chord = 207.9463  
 Mid. Ord. = 3.2593  
 P.C. Station = 0+00.00 N 1,895,895.1059 E 1,114,062.8887  
 P.T. Station = 2+08.08 N 1,895,854.2613 E 1,114,266.7841  
 C.C. = N 1,894,250.1832 E 1,113,839.4145  
 Back = S 82° 15' 48.01" E  
 Ahead = S 75° 04' 53.06" E  
 Chord Bear = S 78° 40' 20.54" E

Curve Data

Curve E\_17TH\_B-2  
 P.I. Station = 2+93.66 N 1,895,832.5140 E 1,114,349.5477  
 Delta = 9° 41' 53.02" (LT)  
 Degree = 5° 40' 48.38"  
 Tangent = 85.5731  
 Length = 170.7374  
 Radius = 1,008.7100  
 External = 3.6233  
 Long Chord = 170.5336  
 Mid. Ord. = 3.6103  
 P.C. Station = 2+08.08 N 1,895,854.2613 E 1,114,266.7841  
 P.T. Station = 3+78.82 N 1,895,825.0196 E 1,114,434.7920  
 C.C. = N 1,896,829.8536 E 1,114,523.1347  
 Back = S 75° 16' 39.16" E  
 Ahead = S 84° 58' 32.18" E  
 Chord Bear = S 80° 07' 35.67" E

Course from PT E\_17TH\_B-2 to 1361 S 84° 46' 46.08" E Dist 282.1413

Point 1361 N 1,895,799.3477 E 1,114,715.7629 Sta 6+60.96

**RAMP E\_17TH\_C**

Point 1370 N 1,896,030.6542 E 1,116,379.5039 Sta 0+00.00  
 Course from 1370 to 1371 N 89° 12' 24.70" W Dist 314.3178  
 Point 1371 N 1,896,035.0051 E 1,116,065.2162 Sta 3+14.32  
 Course from 1371 to 1372 N 86° 07' 38.73" W Dist 179.2127  
 Point 1372 N 1,896,047.1088 E 1,115,886.4127 Sta 4+93.53  
 Course from 1372 to 1373 N 85° 20' 55.33" W Dist 272.2371  
 Point 1373 N 1,896,069.1848 E 1,115,615.0722 Sta 7+65.77

FILE NAME =	DESIGNED - AJP	REVISED -	<b>benesch</b>	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>ALIGNMENT PLAN I-290 RAMP CURVE DATA</b>				F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
...\\expln_abc_c2_290_R_Data\exalign-31.dgn	DRAWN - TMB	REVISED -			290	(3031.1, ETC., 3838)RS-5	COOK	298	58				
USER NAME = tblank	CHECKED - JMM	REVISED -			SCALE: N.T.S. SHEET NO. 31 OF 36 SHEETS STA. TO STA.				CONTRACT NO. 60G52				
PLOT DATE = 11/12/2009	DATE = 10/16/09	REVISED -					FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT						

**RAMP E\_17TH\_D**

Point 1380 N 1,895,952.5563 E 1,116,642.7711 Sta 0+00.00  
 Course from 1380 to 1381 S 86° 22' 51.98" W Dist 770.6245  
 Point 1381 N 1,895,903.9147 E 1,115,873.6832 Sta 7+70.62  
 Course from 1381 to 1382 S 81° 23' 29.52" W Dist 222.2174  
 Point 1382 N 1,895,870.6529 E 1,115,653.9693 Sta 9+92.84  
 Course from 1382 to 1383 S 80° 29' 15.86" W Dist 222.2174  
 Point 1383 N 1,895,833.9295 E 1,115,434.8073 Sta 12+15.06

**RAMP E\_9TH\_A**

Curve Data  
 -----  
 Curve E\_9TH.A-1  
 P.I. Station 0+39.30 N 1,896,012.2121 E 1,118,609.2454  
 Delta = 3° 22' 20.82" (LT)  
 Degree = 4° 17' 30.55"  
 Tangent = 39.3007  
 Length = 78.5786  
 Radius = 1,335.0000  
 External = 0.5784  
 Long Chord = 78.5673  
 Mid. Ord. = 0.5781  
 P.C. Station 0+00.00 N 1,896,014.2546 E 1,118,648.4930  
 P.T. Station 0+78.58 N 1,896,007.8643 E 1,118,570.1860  
 C.C. N 1,894,681.0587 E 1,118,717.8751  
 Back = S 87° 01' 15.25" W  
 Ahead = S 83° 38' 54.43" W  
 Chord Bear = S 85° 20' 04.84" W

Course from PT E\_9TH.A-1 to 1391 S 83° 38' 54.43" W Dist 632.2553

Point 1391 N 1,895,937.9188 E 1,117,941.8116 Sta 7+10.83

Course from 1391 to 1392 S 77° 55' 56.99" W Dist 27.4893

Point 1392 N 1,895,932.1718 E 1,117,914.9298 Sta 7+38.32

**RAMP E\_9TH\_B**

Curve Data  
 -----  
 Curve E\_9TH.B-1  
 P.I. Station 0+53.66 N 1,896,115.7761 E 1,118,715.5236  
 Delta = 3° 21' 57.14" (RT)  
 Degree = 3° 08' 13.59"  
 Tangent = 53.6616  
 Length = 107.2922  
 Radius = 1,826.3889  
 External = 0.7882  
 Long Chord = 107.2768  
 Mid. Ord. = 0.7878  
 P.C. Station 0+00.00 N 1,896,115.3114 E 1,118,769.1831  
 P.T. Station 1+07.29 N 1,896,119.3905 E 1,118,661.9839  
 C.C. N 1,897,941.6318 E 1,118,784.9988  
 Back = N 89° 30' 13.82" W  
 Ahead = N 86° 08' 16.68" W  
 Chord Bear = N 87° 49' 15.25" W

Course from PT E\_9TH.B-1 to 1401 N 86° 23' 00.27" W Dist 423.3752

Point 1401 N 1,896,146.0968 E 1,118,239.4518 Sta 5+30.67

Course from 1401 to 1402 N 86° 55' 45.50" W Dist 316.1785

Point 1402 N 1,896,163.0338 E 1,117,923.7273 Sta 8+46.85

FILE NAME =	DESIGNED - AJP	REVISED -
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USER NAME = tblank	CHECKED - JMM	REVISED -
PLOT DATE = 11/12/2009	DATE - 10/16/09	REVISED -

**benesch**

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

<b>ALIGNMENT PLAN I-290 RAMP CURVE DATA</b>			
SCALE: N.T.S.	SHEET NO. 32 OF 36 SHEETS	STA.	TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	(3031.1, ETC., 3830RS-5	COOK	298	59
FED. ROAD DIST. NO.			CONTRACT NO. 60G52	
[ILLINOIS] FED. AID PROJECT				

**RAMP E\_1ST\_A**

Point 1410 N 1,896,122.9076 E 1,119,034.0163 Sta 0+00.00  
 Course from 1410 to 1411 N 85° 13' 29.09" E Dist 297.1053  
 Point 1411 N 1,896,147.6408 E 1,119,330.0903 Sta 2+97.11  
 Course from 1411 to 1412 N 82° 11' 15.69" E Dist 510.3662  
 Point 1412 N 1,896,217.0141 E 1,119,835.7197 Sta 8+07.47

**RAMP E\_1ST\_B**

Point 1420 N 1,896,036.5033 E 1,119,068.2592 Sta 0+00.00  
 Course from 1420 to 1421 S 86° 47' 22.21" E Dist 439.8107  
 Point 1421 N 1,896,011.8720 E 1,119,507.3796 Sta 4+39.81  
 Course from 1421 to 1422 S 86° 04' 10.29" E Dist 365.8020  
 Point 1422 N 1,895,986.7977 E 1,119,872.3212 Sta 8+05.61

**RAMP E\_1ST\_C**

Point 1430 N 1,896,298.6996 E 1,121,296.0062 Sta 0+00.00  
 Course from 1430 to PC E\_1ST\_C-1 S 84° 01' 48.09" W Dist 104.6754

Curve Data  
-----

Curve E\_1ST\_C-1  
 P.I. Station 2+35.61 N 1,896,274.1941 E 1,121,061.6707  
 Delta = 4° 45' 59.77" (RT)  
 Degree = 1° 49' 16.41"  
 Tangent = 130.9379  
 Length = 261.7248  
 Radius = 3,146.0000  
 External = 2.7237  
 Long Chord = 261.6494  
 Mid. Ord. = 2.7213  
 P.C. Station 1+04.68 N 1,896,287.8126 E 1,121,191.8985  
 P.T. Station 3+66.40 N 1,896,271.4442 E 1,120,930.7616  
 C.C. N 1,899,416.7504 E 1,120,864.6916  
 Back = S 84° 01' 48.09" W  
 Ahead = S 88° 47' 47.86" W  
 Chord Bear = S 86° 24' 47.98" W

Course from PT E\_1ST\_C-1 to 1431 S 88° 47' 47.86" W Dist 207.9072

Point 1431 N 1,896,267.0779 E 1,120,722.9003 Sta 5+74.31

**RAMP E\_1ST\_D**

Point 1440 N 1,896,220.7804 E 1,121,376.3617 Sta 0+00.00  
 Course from 1440 to 1441 S 75° 04' 48.05" W Dist 293.8498  
 Point 1441 N 1,896,145.1229 E 1,121,092.4187 Sta 2+93.85  
 Course from 1441 to 1442 S 72° 10' 02.93" W Dist 140.3010  
 Point 1442 N 1,896,102.1577 E 1,120,958.8584 Sta 4+34.15  
 Course from 1442 to 1443 S 72° 10' 02.98" W Dist 145.2090  
 Point 1443 N 1,896,057.6896 E 1,120,820.6258 Sta 5+79.36  
 Course from 1443 to PC E\_1ST\_D-1 S 72° 18' 02.52" W Dist 351.7186

Curve Data  
-----

Curve E\_1ST\_D-1  
 P.I. Station 10+00.32 N 1,895,929.7085 E 1,120,419.5913  
 Delta = 66° 18' 26.46" (LT)  
 Degree = 54° 03' 09.44"  
 Tangent = 69.2421  
 Length = 122.6718  
 Radius = 106.0000  
 External = 20.6115  
 Long Chord = 115.9399  
 Mid. Ord. = 17.2561  
 P.C. Station 9+31.08 N 1,895,950.7596 E 1,120,485.5558  
 P.T. Station 10+53.75 N 1,895,860.8449 E 1,120,412.3615  
 C.C. N 1,895,849.7771 E 1,120,517.7821  
 Back = S 72° 18' 02.52" W  
 Ahead = S 5° 59' 36.06" W  
 Chord Bear = S 39° 08' 49.29" W

Course from PT E\_1ST\_D-1 to 1444 S 5° 59' 36.06" W Dist 244.5170

Point 1444 N 1,895,617.6644 E 1,120,386.8307 Sta 12+98.27

**RAMP E\_1ST\_E**

Curve Data  
-----

Curve E\_1ST\_E-1  
 P.I. Station 6+22.76 N 1,896,044.2440 E 1,120,674.4342  
 Delta = 0° 33' 27.38" (RT)  
 Degree = 3° 10' 59.16"  
 Tangent = 8.7589  
 Length = 17.5177  
 Radius = 1,800.0000  
 External = 0.0213  
 Long Chord = 17.5177  
 Mid. Ord. = 0.0213  
 P.C. Station 6+14.00 N 1,896,045.7656 E 1,120,683.0600  
 P.T. Station 6+31.52 N 1,896,042.8065 E 1,120,665.7940  
 C.C. N 1,897,818.3986 E 1,120,370.3749  
 Back = S 79° 59' 46.23" W  
 Ahead = S 80° 33' 13.61" W  
 Chord Bear = S 80° 16' 29.92" W

Course from PT E\_1ST\_E-1 to 1451 S 80° 33' 13.61" W Dist 294.0471

Point 1451 N 1,895,994.5469 E 1,120,375.7342 Sta 9+25.56

FILE NAME =	DESIGNED - AJP	REVISED -	<b>benesch</b>	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>				<b>ALIGNMENT PLAN I-290 RAMP CURVE DATA</b>				F.A.I. SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
...\\exaln_abc_c2_290_R_Data.exe;ign_33.dgn	DRAWN - TMB	REVISED -										290 (3031.1, ETC., 3838RS-5	COOK	298	60
USER NAME = wblank	CHECKED - JMM	REVISED -		SCALE: N.T.S. SHEET NO. 33 OF 36 SHEETS STA. TO STA.				CONTRACT NO. 60G52							
PLDT DATE = 11/12/2009	DATE - 10/16/09	REVISED -		FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT											

**RAMP E\_DESPLNS\_A**

Curve Data

Curve E\_DESPLNS\_A-1  
 P.I. Station = 2+34.50 N 1,896,535.4177 E 1,124,228.6905  
 Delta = 3° 58' 57.24" (LT)  
 Degree = 0° 50' 58.19"  
 Tangent = 234.5018  
 Length = 468.8147  
 Radius = 6,744.6696  
 External = 4.0754  
 Long Chord = 468.7203  
 Mid. Ord. = 4.0729  
 P.C. Station = 0+00.00 N 1,896,487.5638 E 1,123,999.1234  
 P.T. Station = 4+68.81 N 1,896,599.1002 E 1,124,454.3797  
 C.C. = N 1,903,090.3057 E 1,122,622.7630  
 Back = N 78° 13' 30.53" E  
 Ahead = N 74° 14' 33.29" E  
 Chord Bear = N 76° 14' 01.91" E

Curve Data

Curve E\_DESPLNS\_A-2  
 P.I. Station = 4+89.62 N 1,896,604.7505 E 1,124,474.4043  
 Delta = 6° 51' 46.12" (LT)  
 Degree = 16° 30' 42.31"  
 Tangent = 20.8065  
 Length = 41.5632  
 Radius = 347.0000  
 External = 0.6232  
 Long Chord = 41.5383  
 Mid. Ord. = 0.6221  
 P.C. Station = 4+68.81 N 1,896,599.1002 E 1,124,454.3797  
 P.T. Station = 5+10.38 N 1,896,612.7531 E 1,124,493.6102  
 C.C. = N 1,896,933.0600 E 1,124,360.1467  
 Back = N 74° 14' 33.29" E  
 Ahead = N 67° 22' 47.17" E  
 Chord Bear = N 70° 48' 40.23" E

Curve Data

Curve E\_DESPLNS\_A-3  
 P.I. Station = 5+15.90 N 1,896,614.8775 E 1,124,498.7088  
 Delta = 1° 49' 25.94" (RT)  
 Degree = 16° 30' 42.31"  
 Tangent = 5.5234  
 Length = 11.0459  
 Radius = 347.0000  
 External = 0.0440  
 Long Chord = 11.0454  
 Mid. Ord. = 0.0440  
 P.C. Station = 5+10.38 N 1,896,612.7531 E 1,124,493.6102  
 P.T. Station = 5+21.42 N 1,896,616.8386 E 1,124,503.8723  
 C.C. = N 1,896,292.4463 E 1,124,627.0738  
 Back = N 67° 22' 47.17" E  
 Ahead = N 69° 12' 13.11" E  
 Chord Bear = N 68° 17' 30.14" E

Curve Data

Curve E\_DESPLNS\_A-4  
 P.I. Station = 5+77.49 N 1,896,636.7436 E 1,124,556.2825  
 Delta = 1° 01' 39.56" (RT)  
 Degree = 2° 44' 52.80"  
 Tangent = 18.6987  
 Length = 37.3965  
 Radius = 2,085.0000  
 External = 0.0838  
 Long Chord = 37.3960  
 Mid. Ord. = 0.0838  
 P.C. Station = 5+58.79 N 1,896,630.1046 E 1,124,538.8020  
 P.T. Station = 5+96.18 N 1,896,643.0679 E 1,124,573.8793  
 C.C. = N 1,894,680.9460 E 1,125,279.0761  
 Back = N 69° 12' 13.11" E  
 Ahead = N 70° 13' 52.67" E  
 Chord Bear = N 69° 43' 02.89" E

**RAMP E\_DESPLNS\_A**

Curve Data

Curve E\_DESPLNS\_A-5  
 P.I. Station = 6+77.08 N 1,896,670.4290 E 1,124,650.0080  
 Delta = 7° 12' 16.28" (LT)  
 Degree = 4° 27' 31.74"  
 Tangent = 80.8963  
 Length = 161.5793  
 Radius = 1,285.0000  
 External = 2.5439  
 Long Chord = 161.4729  
 Mid. Ord. = 2.5388  
 P.C. Station = 5+96.18 N 1,896,643.0679 E 1,124,573.8793  
 P.T. Station = 7+57.76 N 1,896,707.1214 E 1,124,722.1042  
 C.C. = N 1,897,852.3373 E 1,124,139.2615  
 Back = N 70° 13' 52.67" E  
 Ahead = N 63° 01' 36.39" E  
 Chord Bear = N 66° 37' 44.53" E

Course from PT E\_DESPLNS\_A-5 to 1461 N 63° 01' 36.39" E Dist 516.9797

Point 1461 N 1,896,941.6101 E 1,125,182.8462 Sta 12+74.74

**RAMP E\_DESPLNS\_B**

Curve Data

Curve E\_DESPLNS\_B-1  
 P.I. Station = 13+02.63 N 1,896,930.2188 E 1,125,219.9482  
 Delta = 37° 54' 32.40" (RT)  
 Degree = 42° 12' 13.33"  
 Tangent = 46.6254  
 Length = 89.8239  
 Radius = 135.7601  
 External = 7.7834  
 Long Chord = 88.1944  
 Mid. Ord. = 7.3613  
 P.C. Station = 12+56.00 N 1,896,909.2766 E 1,125,178.2907  
 P.T. Station = 13+45.82 N 1,896,921.1471 E 1,125,265.6826  
 C.C. = N 1,896,787.9815 E 1,125,239.2684  
 Back = N 63° 18' 37.14" E  
 Ahead = S 78° 46' 50.46" E  
 Chord Bear = N 82° 15' 53.34" E

Course from PT E\_DESPLNS\_B-1 to 1471 S 78° 46' 50.46" E Dist 23.2738

Point 1471 N 1,896,916.6189 E 1,125,288.5116 Sta 13+69.10

**RAMP E\_DESPLNS\_C**

Curve Data

Curve E\_DESPLNS\_C-1  
 P.I. Station = 0+79.13 N 1,896,414.0501 E 1,124,232.7373  
 Delta = 3° 34' 52.47" (RT)  
 Degree = 2° 15' 49.54"  
 Tangent = 79.1252  
 Length = 158.1988  
 Radius = 2,531.0000  
 External = 1.2365  
 Long Chord = 158.1730  
 Mid. Ord. = 1.2359  
 P.C. Station = 0+00.00 N 1,896,410.2172 E 1,124,153.7050  
 P.T. Station = 1+58.20 N 1,896,412.9389 E 1,124,311.8546  
 C.C. = N 1,893,882.1885 E 1,124,276.3104  
 Back = N 87° 13' 24.32" E  
 Ahead = S 89° 11' 43.21" E  
 Chord Bear = N 89° 00' 50.55" E

Course from PT E\_DESPLNS\_C-1 to 1481 S 89° 11' 43.21" E Dist 506.6672

Point 1481 N 1,896,405.8235 E 1,124,818.4718 Sta 6+64.87

Course from 1481 to 1482 S 87° 25' 37.12" E Dist 219.1006

Point 1482 N 1,896,395.9875 E 1,125,037.3515 Sta 8+83.97

Course from 1482 to 1483 N 89° 39' 44.31" E Dist 78.4988

Point 1483 N 1,896,396.4501 E 1,125,115.8490 Sta 9+62.47

FILE NAME =	DESIGNED - AJP	REVISED -
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USER NAME = tblank	CHECKED - JMM	REVISED -
PLOT DATE = 11/12/2009	DATE - 10/16/09	REVISED -

**benesch**

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>ALIGNMENT PLAN I-290 RAMP CURVE DATA</b>			
SCALE: N.T.S.	SHEET NO. 34 OF 36 SHEETS	STA.	TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEET NO.
290	(3031.1, ETC., 3838RS-5)	COCK	298 61
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 60G52

**RAMP E\_HARLM\_A**

Point 1210 N 1,897,111.1855 E 1,127,004.5065 Sta 0+00.00  
 Course from 1210 to PC E\_HARLM\_A-1 S 86° 35' 03.18" E Dist 132.1088

Curve Data

Curve E\_HARLM\_A-1  
 P.I. Station 2+55.16 N 1,897,101.0006 E 1,127,259.4143  
 Delta = 3° 12' 43.38" (RT)  
 Degree = 1° 18' 19.67"  
 Tangent = 123.0555  
 Length = 246.0465  
 Radius = 4,388.9206  
 External = 1.7248  
 Long Chord = 246.0143  
 Mid. Ord. = 1.7241  
 P.C. Station 1+32.11 N 1,897,103.3143 E 1,127,136.3806  
 P.T. Station 3+78.16 N 1,897,091.7967 E 1,127,382.1251  
 C.C. N 1,892,715.1695 E 1,127,053.8587  
 Back = S 88° 55' 21.52" E  
 Ahead = S 85° 42' 38.14" E  
 Chord Bear = S 87° 18' 59.83" E

Curve Data

Curve E\_HARLM\_A-2  
 P.I. Station 4+28.13 N 1,897,089.2878 E 1,127,432.0336  
 Delta = 4° 08' 08.56" (RT)  
 Degree = 4° 08' 23.53"  
 Tangent = 49.9715  
 Length = 99.8996  
 Radius = 1,384.0000  
 External = 0.9019  
 Long Chord = 99.8779  
 Mid. Ord. = 0.9013  
 P.C. Station 3+78.16 N 1,897,091.7967 E 1,127,382.1251  
 P.T. Station 4+78.05 N 1,897,083.1860 E 1,127,481.6312  
 C.C. N 1,895,709.5422 E 1,127,312.6386  
 Back = S 87° 07' 19.70" E  
 Ahead = S 82° 59' 11.13" E  
 Chord Bear = S 85° 03' 15.42" E

Course from PT E\_HARLM\_A-2 to 1211 S 82° 59' 11.13" E Dist 759.0431

Point 1211 N 1,896,990.5035 E 1,128,234.9946 Sta 12+37.10

**RAMP E\_HARLM\_D**

Point 1240 N 1,896,898.8719 E 1,129,168.0916 Sta 7+25.19  
 Course from 1240 to 1241 N 83° 04' 53.29" W Dist 440.4401  
 Point 1241 N 1,896,951.9264 E 1,128,730.8586 Sta 11+65.63  
 Course from 1241 to 1242 N 81° 53' 08.12" W Dist 182.3172  
 Point 1242 N 1,896,977.6606 E 1,128,550.3667 Sta 13+47.95  
 Course from 1242 to 1243 N 82° 38' 48.28" W Dist 215.3614  
 Point 1243 N 1,897,005.2239 E 1,128,336.7764 Sta 15+63.31

**RAMP E\_HARLM\_B**

Point 1220 N 1,897,141.7171 E 1,127,197.8051 Sta 0+00.00  
 Course from 1220 to 1221 S 81° 22' 05.07" E Dist 330.3251  
 Point 1221 N 1,897,092.1398 E 1,127,524.3886 Sta 3+30.33  
 Course from 1221 to 1222 S 81° 45' 53.23" E Dist 167.0351  
 Point 1222 N 1,897,068.2142 E 1,127,689.7013 Sta 4+97.36  
 Course from 1222 to 1223 S 83° 02' 55.12" E Dist 543.4633  
 Point 1223 N 1,897,002.4407 E 1,128,229.1697 Sta 10+40.82

**RAMP E\_HARLM\_C**

Point 1230 N 1,896,803.6843 E 1,129,887.2444 Sta 0+00.00  
 Course from 1230 to 1231 N 83° 55' 14.42" W Dist 225.1704  
 Point 1231 N 1,896,827.5310 E 1,129,663.3403 Sta 2+25.17  
 Course from 1231 to 1232 N 83° 55' 14.42" W Dist 500.0189  
 Point 1232 N 1,896,880.4857 E 1,129,166.1334 Sta 7+25.19

**RAMP E\_HARLM\_E**

Point 1250 N 1,896,832.0401 E 1,129,352.2126 Sta 0+00.00  
 Course from 1250 to 1251 N 79° 04' 28.85" W Dist 245.4060  
 Point 1251 N 1,896,878.5517 E 1,129,111.2546 Sta 2+45.41  
 Course from 1251 to 1252 N 82° 57' 20.21" W Dist 359.3236  
 Point 1252 N 1,896,922.6185 E 1,128,754.6434 Sta 6+04.73  
 Course from 1252 to 1253 N 82° 13' 01.27" W Dist 243.1589  
 Point 1253 N 1,896,955.5474 E 1,128,513.7244 Sta 8+47.89  
 Course from 1253 to 1254 N 83° 03' 07.61" W Dist 203.8129  
 Point 1254 N 1,896,980.2019 E 1,128,311.4082 Sta 10+51.70

FILE NAME =	DESIGNED - AJP	REVISED -
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USER NAME = tblank	CHECKED - JMM	REVISED -
PLDT DATE = 11/12/2009	DATE - 10/16/09	REVISED -

**benesch**

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

ALIGNMENT PLAN I-290 RAMP CURVE DATA			
SCALE: N.T.S.	SHEET NO. 35 OF 36 SHEETS	STA.	TO STA.

F.A.I. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	(3031.1, ETC., 3838RS-5	COOK	298	62
CONTRACT NO. 60G52				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

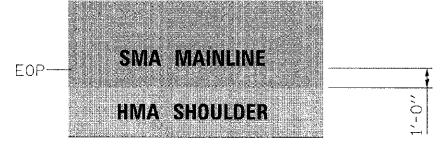
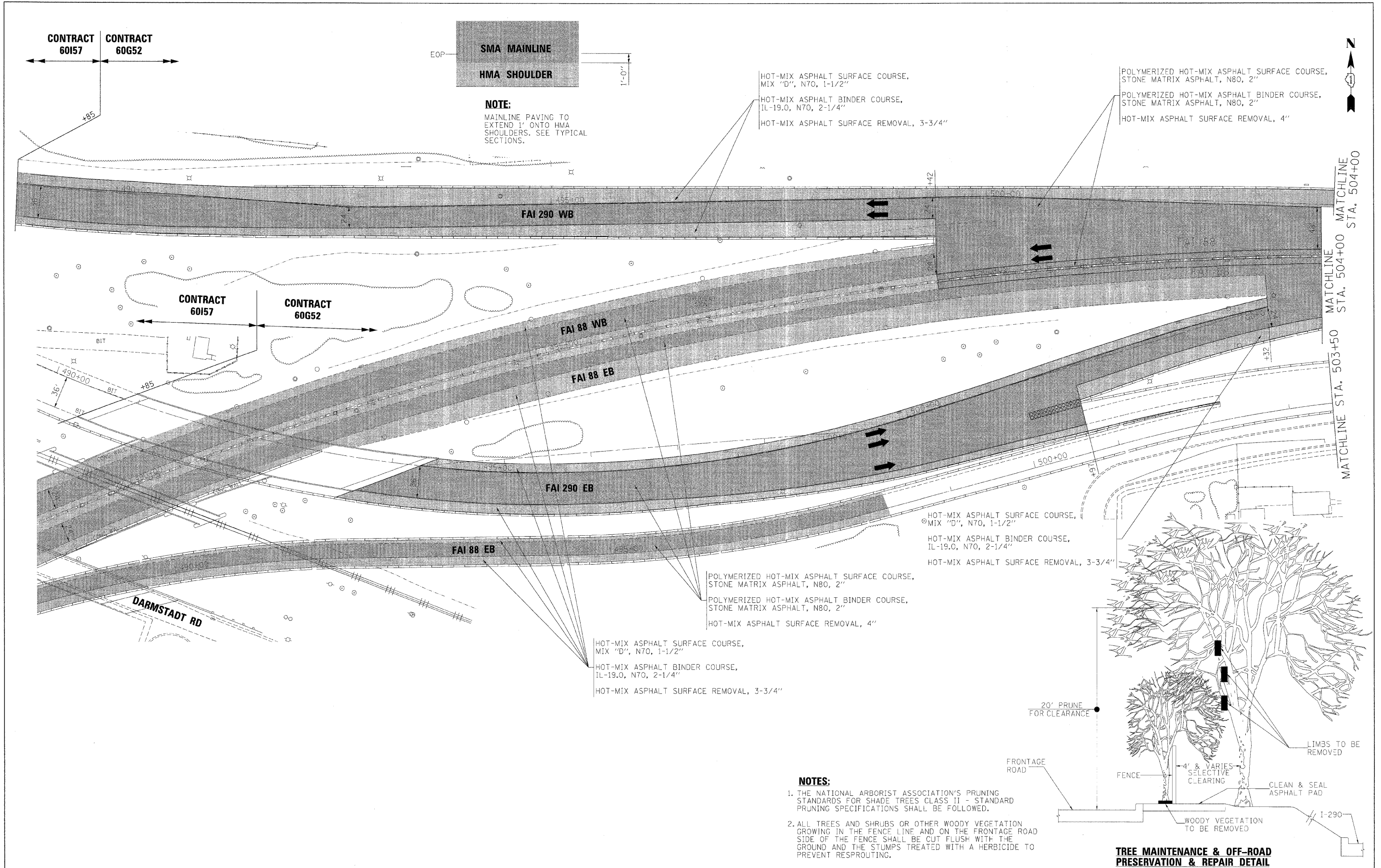
**RAMP E\_AUSTN\_A**

Point 1190 N 1,896,210.9574 E 1,134,852.3180 Sta 0+00.00  
 Course from 1190 to 1191 S 87° 49' 33.03" E Dist 290.6860  
 Point 1191 N 1,896,199.9296 E 1,135,142.7947 Sta 2+90.69  
 Course from 1191 to 1192 S 87° 00' 23.18" E Dist 358.5780  
 Point 1192 N 1,896,181.2033 E 1,135,500.8834 Sta 6+49.26  
 Course from 1192 to 1193 S 85° 31' 24.55" E Dist 789.2444  
 Point 1193 N 1,896,119.6025 E 1,136,287.7201 Sta 14+38.51  
 Course from 1193 to 1194 S 85° 53' 50.15" E Dist 187.9189  
 Point 1194 N 1,896,106.1578 E 1,136,475.1574 Sta 16+26.43

**RAMP E\_AUSTN\_B**

Point 1200 N 1,896,210.9779 E 1,135,393.1511 Sta 0+00.00  
 Course from 1200 to 1201 S 83° 18' 43.54" E Dist 274.2035  
 Point 1201 N 1,896,179.0439 E 1,135,665.4887 Sta 2+74.20  
 Course from 1201 to 1202 S 85° 18' 12.21" E Dist 818.3923  
 Point 1202 N 1,896,112.0344 E 1,136,481.1330 Sta 10+92.60

FILE NAME =	DESIGNED - AJP	REVISED -	<b>benesch</b>	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>ALIGNMENT PLAN I-290 RAMP CURVE DATA</b>		F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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USER NAME = tblank	CHECKED - JMM	REVISED -					CONTRACT NO. 60G52				
PLOT DATE = 11/12/2009	DATE - 10/16/09	REVISED -	SCALE: N.T.S.	SHEET NO. 36 OF 36 SHEETS	STA. TO STA.	FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT					



**NOTE:**  
 MAINLINE PAVING TO EXTEND 1' ONTO HMA SHOULDERS. SEE TYPICAL SECTIONS.

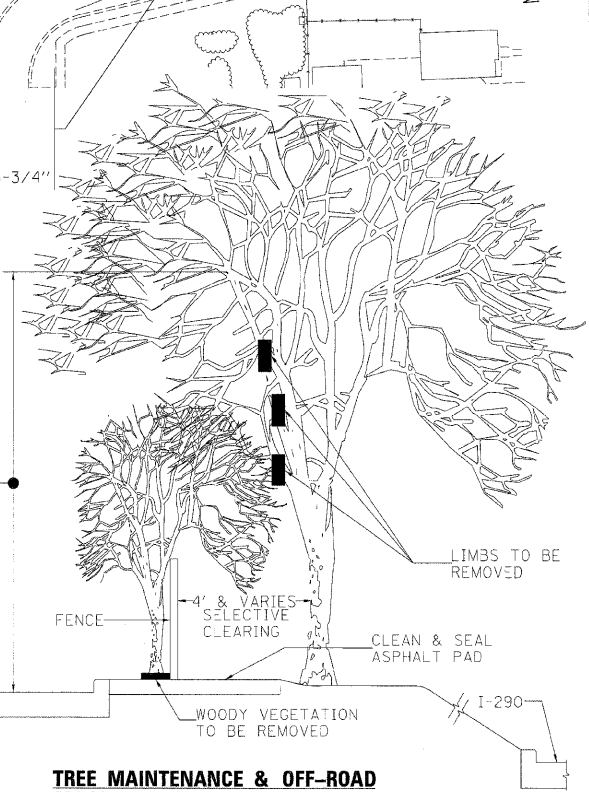
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 HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70, 2-1/4"  
 HOT-MIX ASPHALT SURFACE REMOVAL, 3-3/4"

POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, STONE MATRIX ASPHALT, N80, 2"  
 POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, STONE MATRIX ASPHALT, N80, 2"  
 HOT-MIX ASPHALT SURFACE REMOVAL, 4"

HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70, 1-1/2"  
 HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70, 2-1/4"  
 HOT-MIX ASPHALT SURFACE REMOVAL, 3-3/4"

POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, STONE MATRIX ASPHALT, N80, 2"  
 POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, STONE MATRIX ASPHALT, N80, 2"  
 HOT-MIX ASPHALT SURFACE REMOVAL, 4"

HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70, 1-1/2"  
 HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70, 2-1/4"  
 HOT-MIX ASPHALT SURFACE REMOVAL, 3-3/4"



- NOTES:**
1. THE NATIONAL ARBORIST ASSOCIATION'S PRUNING STANDARDS FOR SHADE TREES CLASS II - STANDARD PRUNING SPECIFICATIONS SHALL BE FOLLOWED.
  2. ALL TREES AND SHRUBS OR OTHER WOODY VEGETATION GROWING IN THE FENCE LINE AND ON THE FRONTAGE ROAD SIDE OF THE FENCE SHALL BE CUT FLUSH WITH THE GROUND AND THE STUMPS TREATED WITH A HERBICIDE TO PREVENT RESPROUTING.

**TREE MAINTENANCE & OFF-ROAD PRESERVATION & REPAIR DETAIL**

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**benesch**

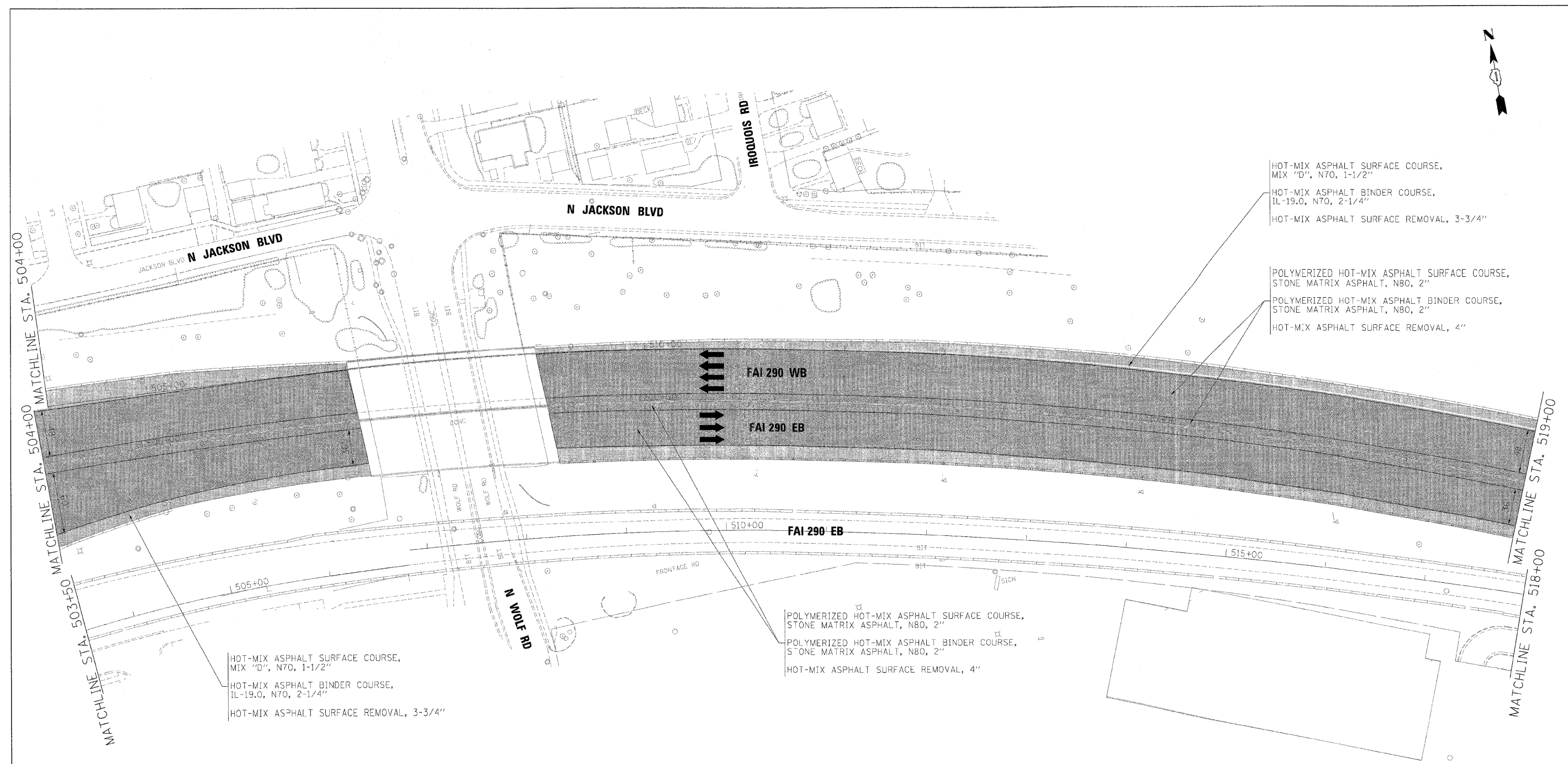
**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**ROADWAY PLAN  
 I-290 MAINLINE STA 489+00 TO STA 504+00**

SCALE: 1"=50' SHEET NO. 1 OF 3 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	(3031.1, ETC., 3838)RS-5	COOK	298	64
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 60G52	



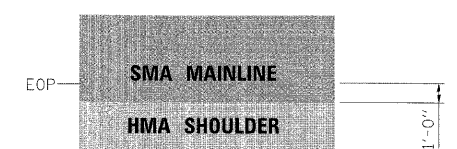


HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70, 1-1/2"  
 HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70, 2-1/4"  
 HOT-MIX ASPHALT SURFACE REMOVAL, 3-3/4"

POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, STONE MATRIX ASPHALT, N80, 2"  
 POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, STONE MATRIX ASPHALT, N80, 2"  
 HOT-MIX ASPHALT SURFACE REMOVAL, 4"

HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70, 1-1/2"  
 HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70, 2-1/4"  
 HOT-MIX ASPHALT SURFACE REMOVAL, 3-3/4"

POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, STONE MATRIX ASPHALT, N80, 2"  
 POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, STONE MATRIX ASPHALT, N80, 2"  
 HOT-MIX ASPHALT SURFACE REMOVAL, 4"



**NOTE:**  
 MAINLINE PAVING TO EXTEND 1' ONTO HMA SHOULDERS. SEE TYPICAL SECTIONS.

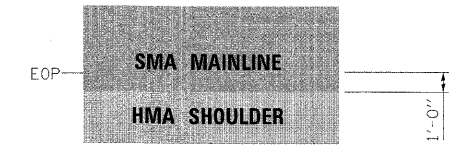
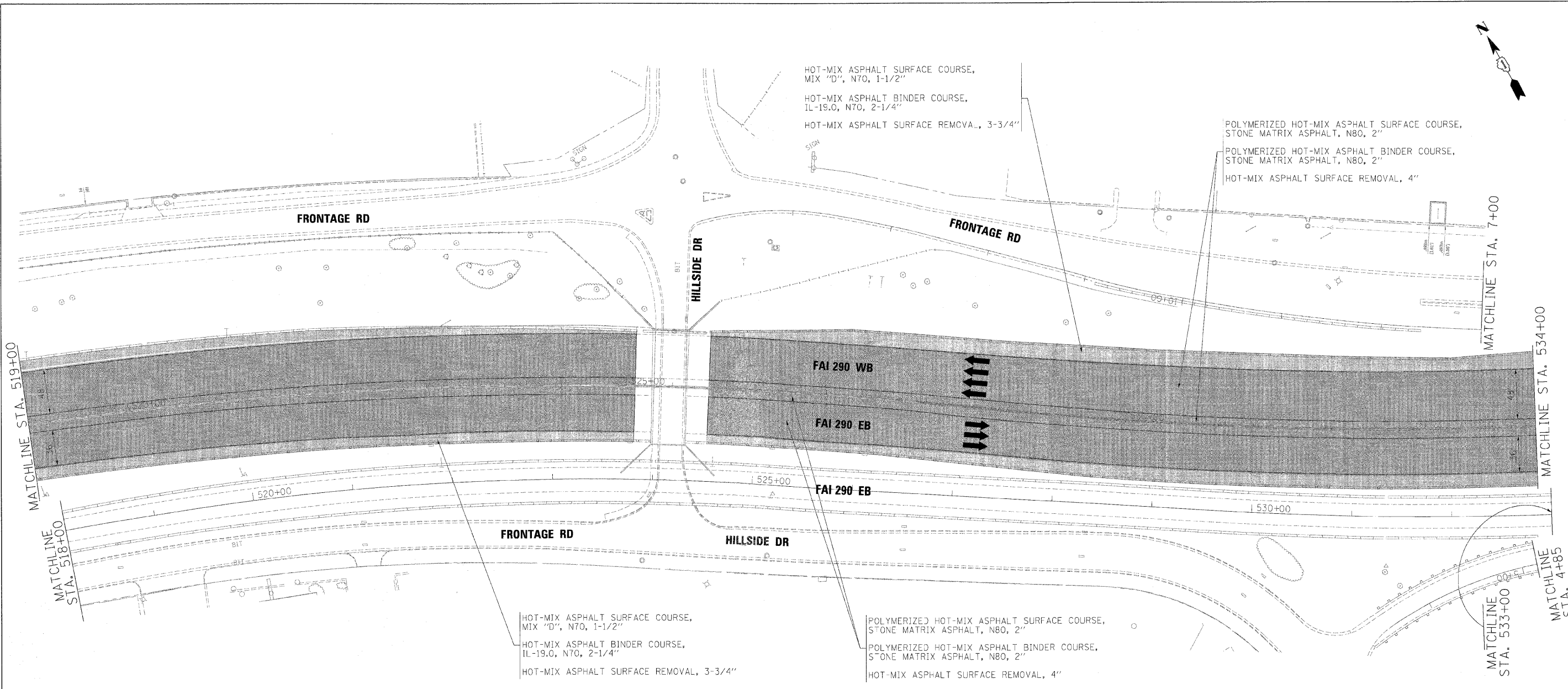
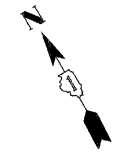
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PLOT DATE = 11/13/2009	DATE - 10/16/09	REVISED -

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**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

<b>ROADWAY PLAN</b>			
<b>I-290 MAINLINE STA 504+00 TO STA 519+00</b>			
SCALE: 1"=50'	SHEET NO. 2 OF 31 SHEETS	STA.	TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	(3031.1, ETC., 3638)RS-5	COOK	298	65
FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT	
			CONTRACT NO. 60G52	



**NOTE:**  
 MAINLINE PAVING TO  
 EXTEND 1' ONTO HMA  
 SHOULDERS. SEE TYPICAL  
 SECTIONS.

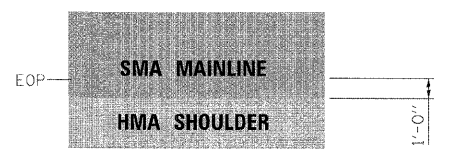
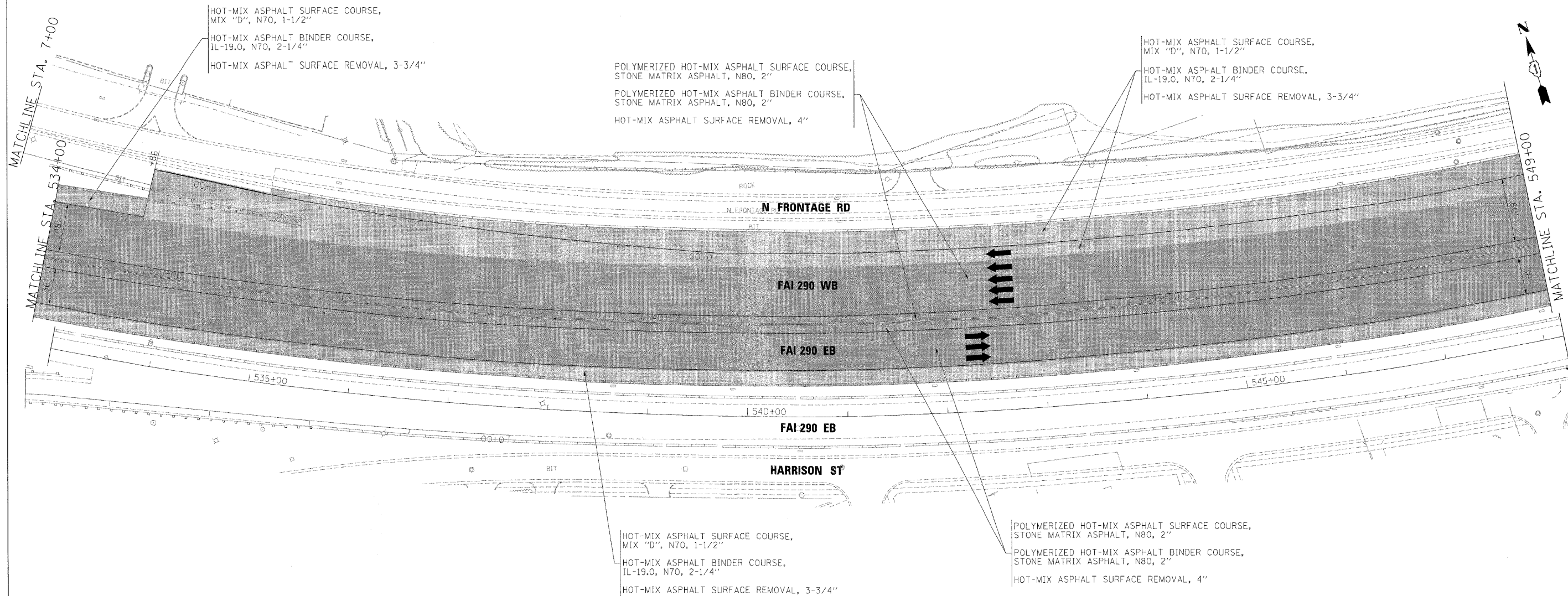
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**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**ROADWAY PLAN  
 I-290 MAINLINE STA 519+00 TO STA 534+00**  
 SCALE: 1"=50' SHEET NO. 3 OF 31 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	(3031.1, ETC., 3838RS-5	COOK	298	66
FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT	
			CONTRACT NO. 60G52	



**NOTE:**  
 MAINLINE PAVING TO  
 EXTEND 1' ONTO HMA  
 SHOULDERS. SEE TYPICAL  
 SECTIONS.

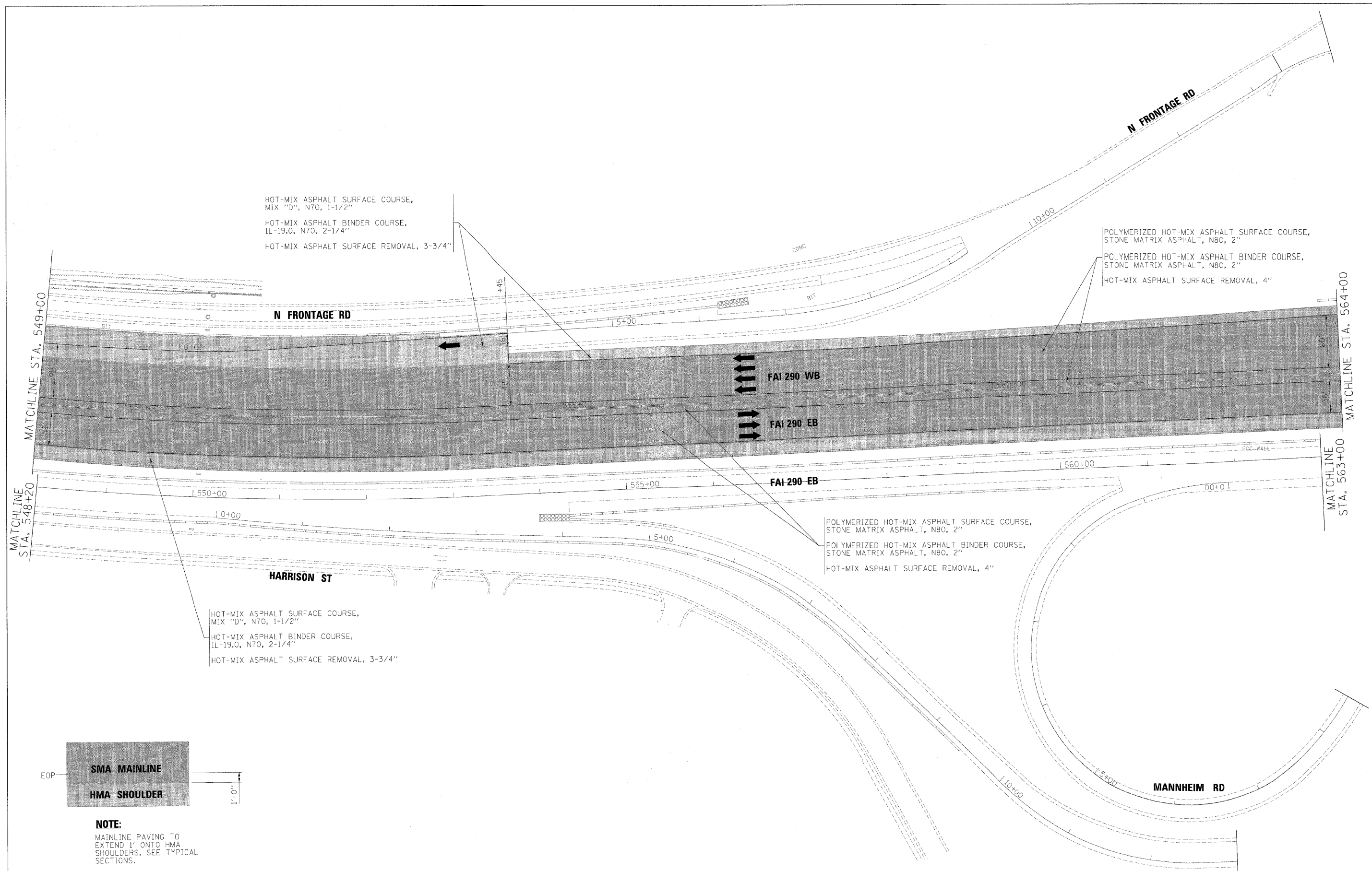
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**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

<b>ROADWAY PLAN</b>		
<b>I-290 MAINLINE STA 534+00 TO STA 549+00</b>		
SCALE: 1"=50'	SHEET NO. 4 OF 31 SHEETS	STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	(3031.1, ETC., 3838IRS-5	COOK	298	67
FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT	CONTRACT NO. 60G52

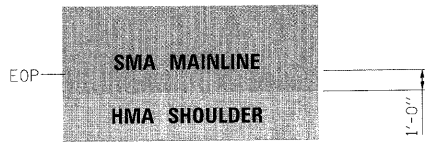


HOT-MIX ASPHALT SURFACE COURSE,  
MIX "D", N70, 1-1/2"  
HOT-MIX ASPHALT BINDER COURSE,  
IL-19.0, N70, 2-1/4"  
HOT-MIX ASPHALT SURFACE REMOVAL, 3-3/4"

POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE,  
STONE MATRIX ASPHALT, N80, 2"  
POLYMERIZED HOT-MIX ASPHALT BINDER COURSE,  
STONE MATRIX ASPHALT, N80, 2"  
HOT-MIX ASPHALT SURFACE REMOVAL, 4"

HOT-MIX ASPHALT SURFACE COURSE,  
MIX "D", N70, 1-1/2"  
HOT-MIX ASPHALT BINDER COURSE,  
IL-19.0, N70, 2-1/4"  
HOT-MIX ASPHALT SURFACE REMOVAL, 3-3/4"

POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE,  
STONE MATRIX ASPHALT, N80, 2"  
POLYMERIZED HOT-MIX ASPHALT BINDER COURSE,  
STONE MATRIX ASPHALT, N80, 2"  
HOT-MIX ASPHALT SURFACE REMOVAL, 4"



**NOTE:**  
MAINLINE PAVING TO  
EXTEND 1' ONTO HMA  
SHOULDERS. SEE TYPICAL  
SECTIONS.

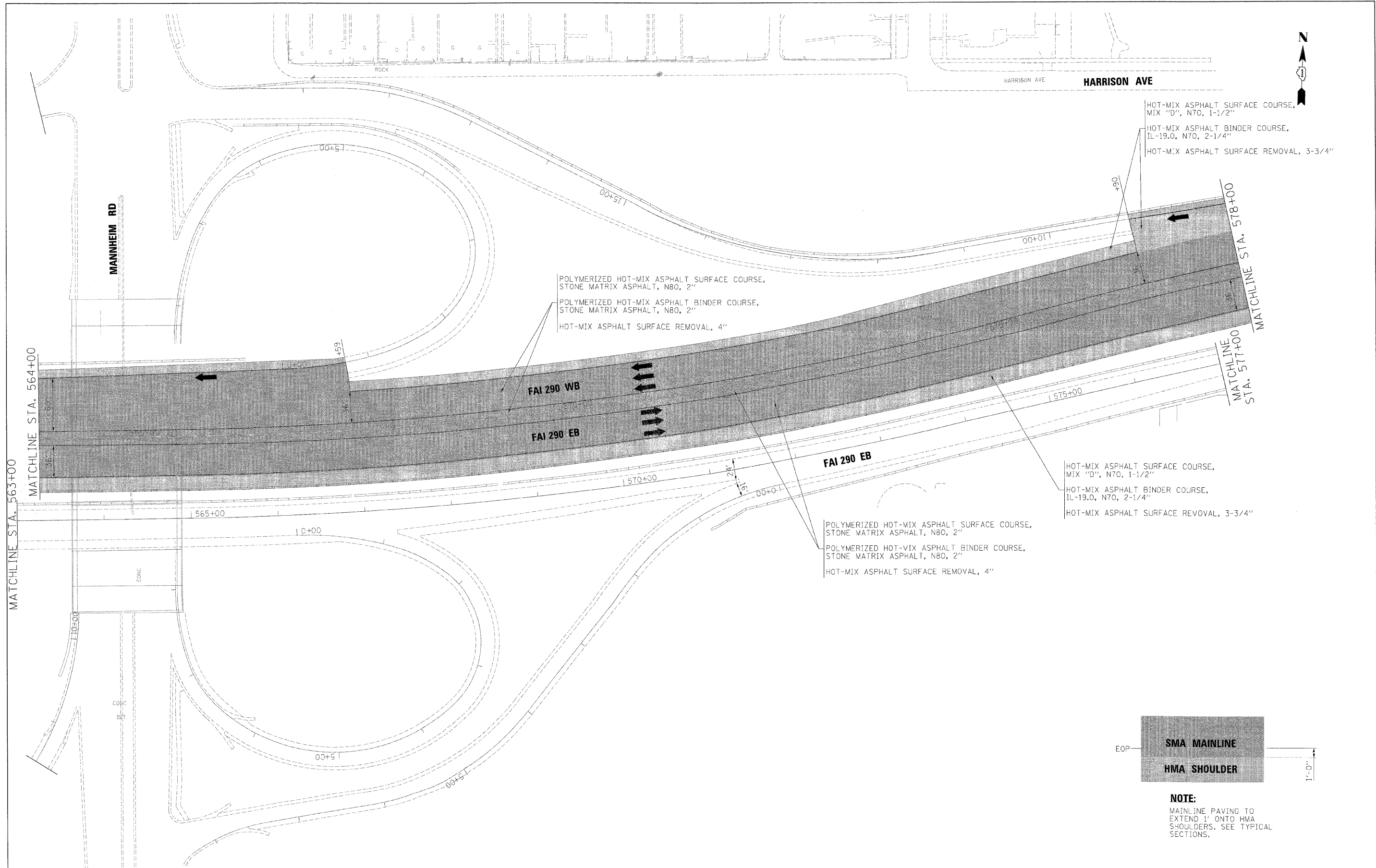
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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**ROADWAY PLAN  
I-290 MAINLINE STA 549+00 TO STA 564+00**  
SCALE: 1"=50' SHEET NO. 5 OF 31 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	(3031.1, ETC., 3838)RS-5	COOK	298	68
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 60C52	

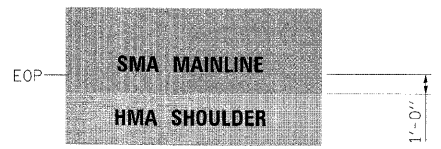


HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70, 1-1/2"  
 HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70, 2-1/4"  
 HOT-MIX ASPHALT SURFACE REMOVAL, 3-3/4"

POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, STONE MATRIX ASPHALT, N80, 2"  
 POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, STONE MATRIX ASPHALT, N80, 2"  
 HOT-MIX ASPHALT SURFACE REMOVAL, 4"

HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70, 1-1/2"  
 HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70, 2-1/4"  
 HOT-MIX ASPHALT SURFACE REVOVAL, 3-3/4"

POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, STONE MATRIX ASPHALT, N80, 2"  
 POLYMERIZED HOT-VIX ASPHALT BINDER COURSE, STONE MATRIX ASPHALT, N80, 2"  
 HOT-MIX ASPHALT SURFACE REMOVAL, 4"



**NOTE:**  
 MAINLINE PAVING TO EXTEND 1' ONTO HMA SHOULDERS. SEE TYPICAL SECTIONS.

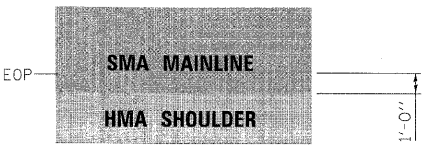
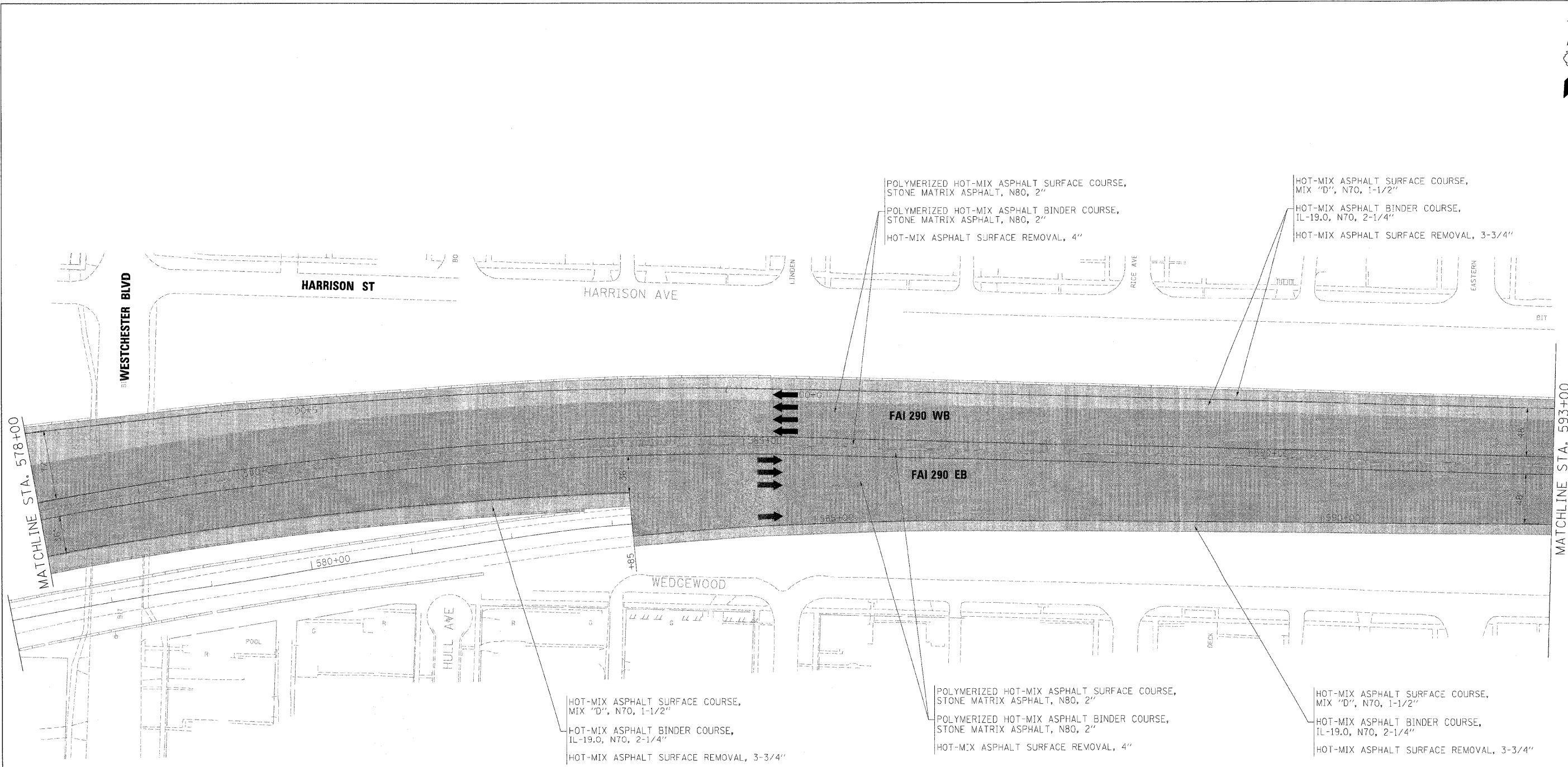
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**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**ROADWAY PLAN**  
**I-290 MAINLINE STA 564+00 TO STA 578+00**  
 SCALE: 1"=50' SHEET NO. 6 OF 31 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	(3031.1, ETC., 3838RS-5	COOK	298	69
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 60G52	



**NOTE:**  
 MAINLINE PAVING TO EXTEND 1' ONTO HMA SHOULDERS. SEE TYPICAL SECTIONS.

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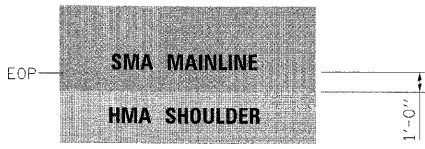
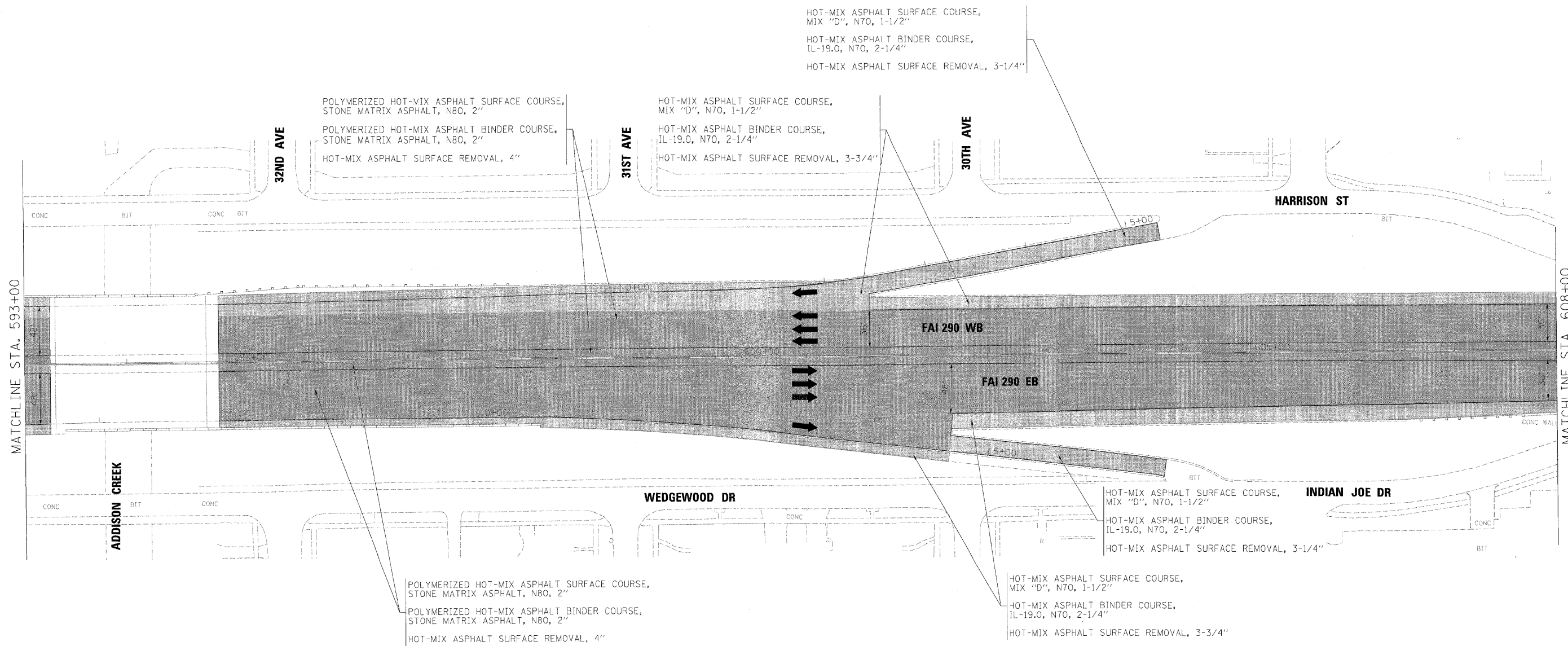
**benesch**

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**ROADWAY PLAN  
 I-290 MAINLINE STA 578+00 TO STA 593+00**

SCALE: 1"=50' SHEET NO. 7 OF 31 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	(3031.1, ETC., 3838)RS-5	COOK	298	70
FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT			CONTRACT NO. 60G52	



**NOTE:**  
 MAINLINE PAVING TO  
 EXTEND 1' ONTO HMA  
 SHOULDERS. SEE TYPICAL  
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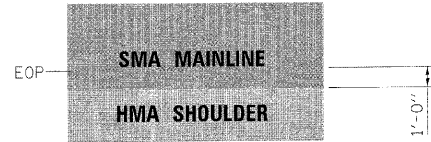
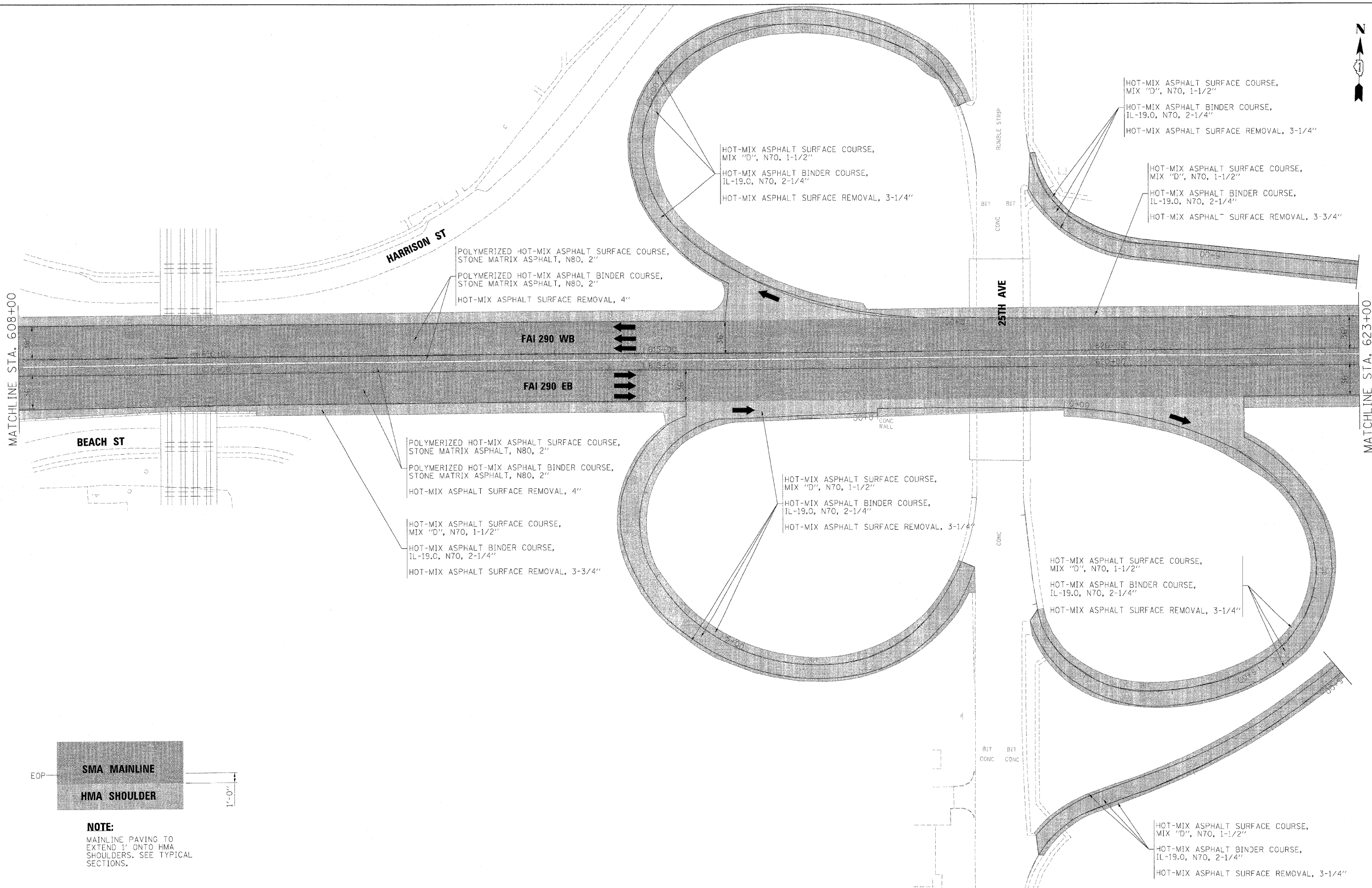
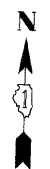
**benesch**

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**ROADWAY PLAN  
 I-290 MAINLINE STA 593+00 TO STA 608+00**

SCALE: 1"=50' SHEET NO. 8 OF 31 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	(3031.1, ETC., 3838RS-5	COOK	298	71
FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT	
			CONTRACT NO. 60G52	



**NOTE:**  
 MAINLINE PAVING TO  
 EXTEND 1' ONTO HMA  
 SHOULDERS. SEE TYPICAL  
 SECTIONS.

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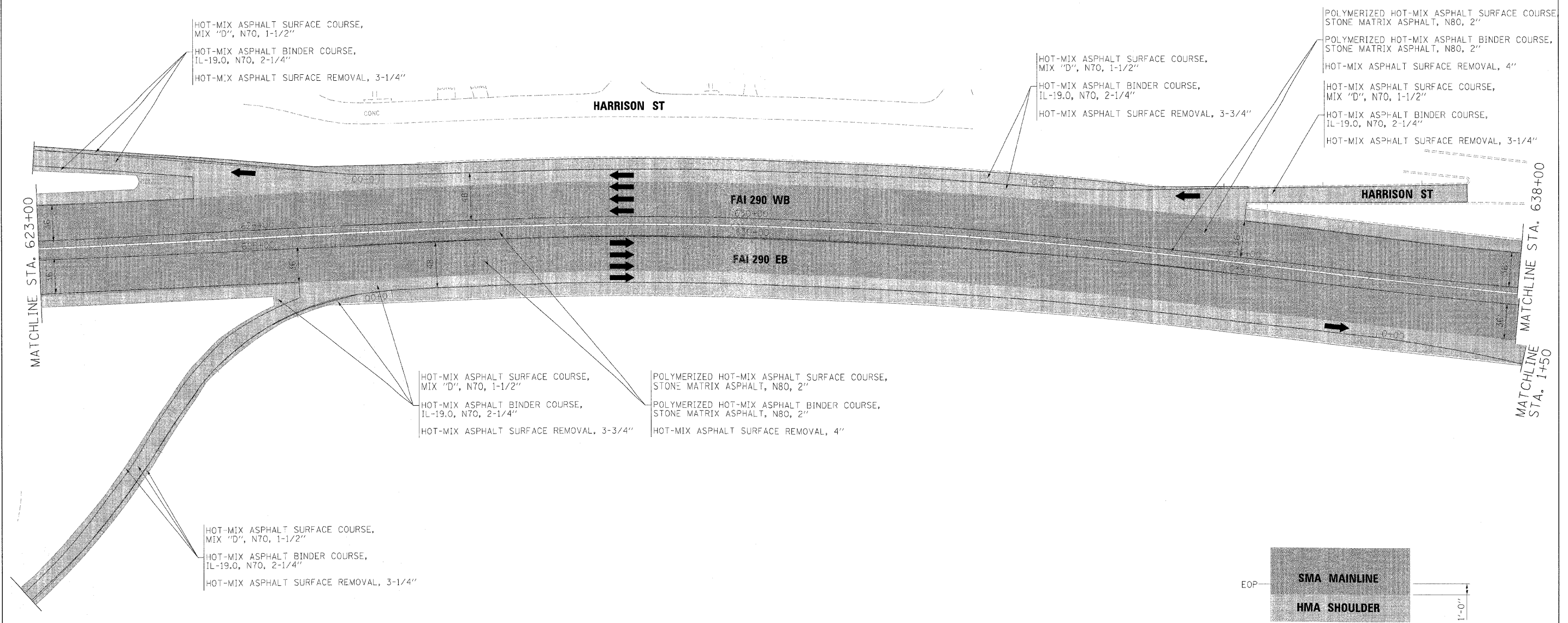
**benesch**

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

<b>ROADWAY PLAN</b>			
<b>I-290 MAINLINE STA 608+00 TO STA 623+00</b>			
SCALE: 1"=50'	SHEET NO. 9 OF 31 SHEETS	STA.	TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	(3031.1, ETC., 3838RS-5	COOK	298	72
FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT	
			CONTRACT NO. 60G52	





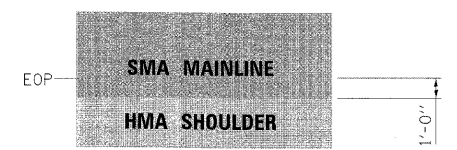
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 HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70, 2-1/4"  
 HOT-MIX ASPHALT SURFACE REMOVAL, 3-1/4"

HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70, 1-1/2"  
 HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70, 2-1/4"  
 HOT-MIX ASPHALT SURFACE REMOVAL, 3-3/4"

POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, STONE MATRIX ASPHALT, N80, 2"  
 POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, STONE MATRIX ASPHALT, N80, 2"  
 HOT-MIX ASPHALT SURFACE REMOVAL, 4"

HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70, 1-1/2"  
 HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70, 2-1/4"  
 HOT-MIX ASPHALT SURFACE REMOVAL, 3-3/4"

POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, STONE MATRIX ASPHALT, N80, 2"  
 POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, STONE MATRIX ASPHALT, N80, 2"  
 HOT-MIX ASPHALT SURFACE REMOVAL, 4"  
 HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70, 1-1/2"  
 HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70, 2-1/4"  
 HOT-MIX ASPHALT SURFACE REMOVAL, 3-1/4"



**NOTE:**  
 MAINLINE PAVING TO EXTEND 1' ONTO HMA SHOULDERS. SEE TYPICAL SECTIONS.

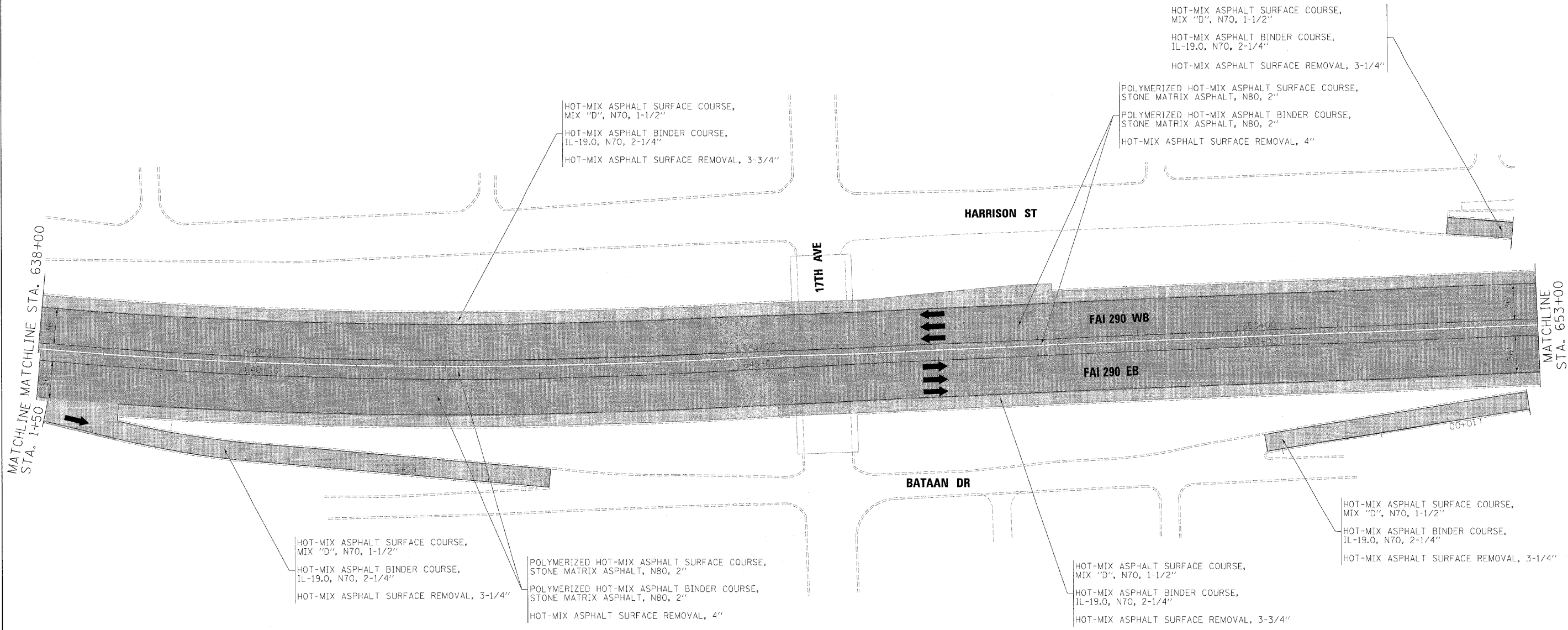
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**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

<b>ROADWAY PLAN</b>			
<b>I-290 MAINLINE STA 623+00 TO STA 638+00</b>			
SCALE: 1"=50'	SHEET NO. 10 OF 31 SHEETS	STA.	TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	(3031.1, ETC., 3838RS-5	COOK	298	73
FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT	
			CONTRACT NO. 60G52	



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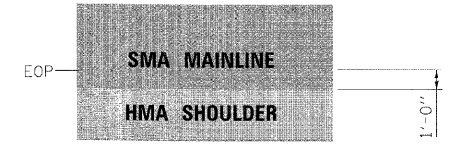
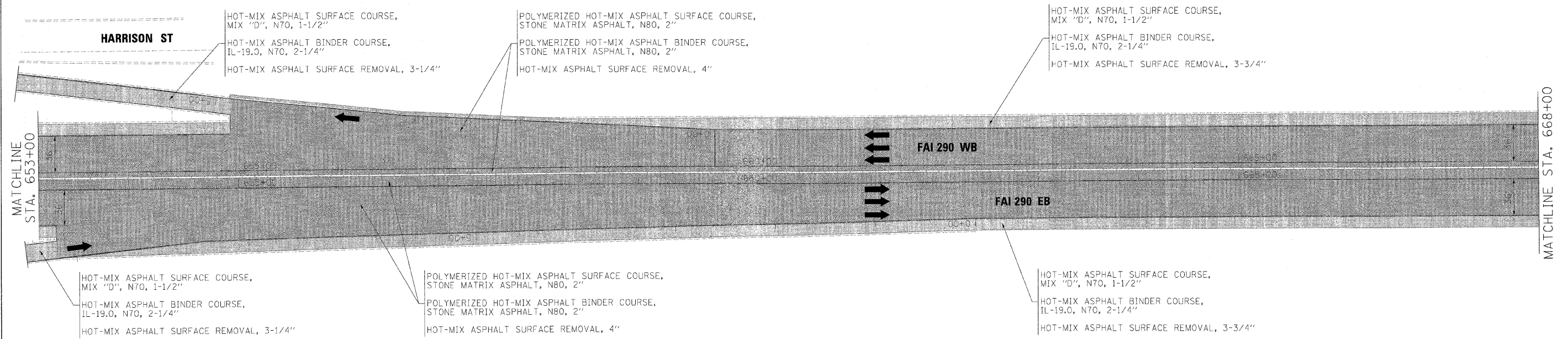
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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**ROADWAY PLAN**  
**I-290 MAINLINE STA 638+00 TO STA 653+00**  
SCALE: 1"=50' SHEET NO. 11 OF 31 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	(3031.1, ETC., 3838RS-5	COOK	298	74
FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT	
			CONTRACT NO. 60052	

**NOTE:**  
MAINLINE PAVING TO EXTEND 1' ONTO HMA SHOULDERS. SEE TYPICAL SECTIONS.



**NOTE:**  
 MAINLINE PAVING TO  
 EXTEND 1' ONTO HMA  
 SHOULDERS. SEE TYPICAL  
 SECTIONS.

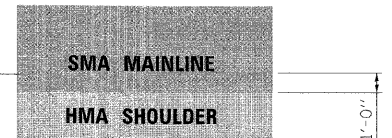
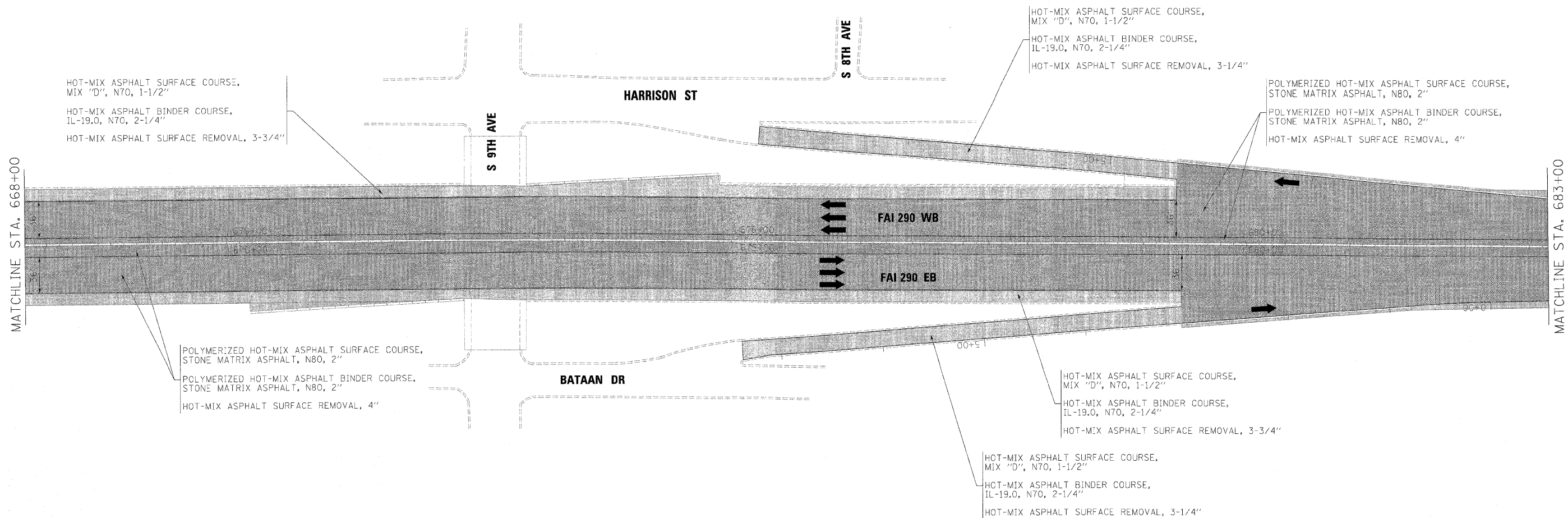
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**benesch**

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**ROADWAY PLAN  
 I-290 MAINLINE STA 653+00 TO STA 668+00**  
 SCALE: 1"=50' SHEET NO. 12 OF 31 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	(3031.1, ETC., 3838RS-5	COOK	298	75
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 60G52	



**NOTE:**  
 MAINLINE PAVING TO  
 EXTEND 1' ONTO HMA  
 SHOULDERS. SEE TYPICAL  
 SECTIONS.

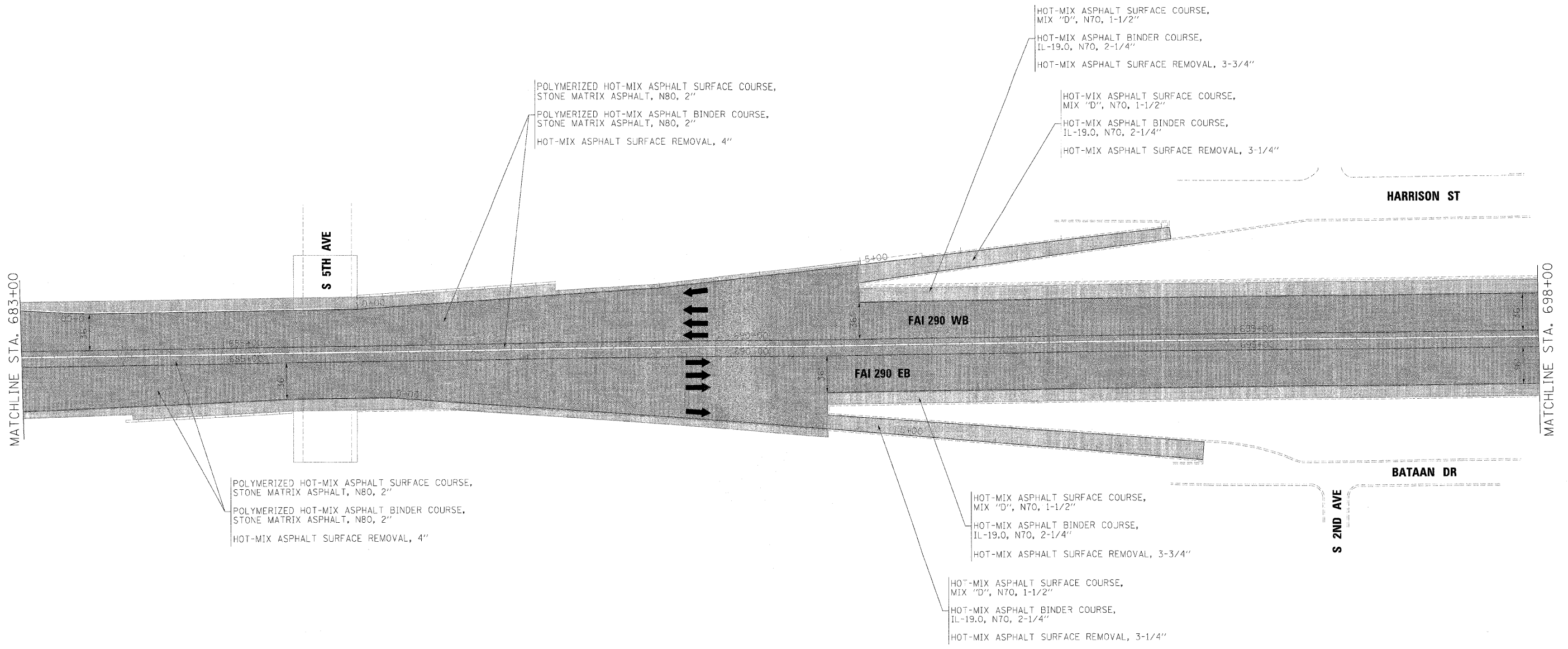
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**benesch**

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

<b>ROADWAY PLAN</b>	
<b>I-290 MAINLINE STA 668+00 TO STA 683+00</b>	
SCALE: 1"=50'	SHEET NO. 13 OF 31 SHEETS
STA. TO STA.	

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	(3031.1, ETC., 3838)RS-5	COOK	298	76
FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT			CONTRACT NO. 60652	



POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE,  
STONE MATRIX ASPHALT, N80, 2"  
POLYMERIZED HOT-MIX ASPHALT BINDER COURSE,  
STONE MATRIX ASPHALT, N80, 2"  
HOT-MIX ASPHALT SURFACE REMOVAL, 4"

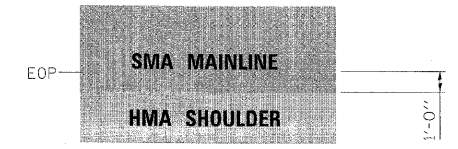
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STONE MATRIX ASPHALT, N80, 2"  
POLYMERIZED HOT-MIX ASPHALT BINDER COURSE,  
STONE MATRIX ASPHALT, N80, 2"  
HOT-MIX ASPHALT SURFACE REMOVAL, 4"

HOT-MIX ASPHALT SURFACE COURSE,  
MIX "D", N70, 1-1/2"  
HOT-MIX ASPHALT BINDER COURSE,  
IL-19.0, N70, 2-1/4"  
HOT-MIX ASPHALT SURFACE REMOVAL, 3-3/4"

HOT-MIX ASPHALT SURFACE COURSE,  
MIX "D", N70, 1-1/2"  
HOT-MIX ASPHALT BINDER COURSE,  
IL-19.0, N70, 2-1/4"  
HOT-MIX ASPHALT SURFACE REMOVAL, 3-1/4"

HOT-MIX ASPHALT SURFACE COURSE,  
MIX "D", N70, 1-1/2"  
HOT-MIX ASPHALT BINDER COURSE,  
IL-19.0, N70, 2-1/4"  
HOT-MIX ASPHALT SURFACE REMOVAL, 3-3/4"

HOT-MIX ASPHALT SURFACE COURSE,  
MIX "D", N70, 1-1/2"  
HOT-MIX ASPHALT BINDER COURSE,  
IL-19.0, N70, 2-1/4"  
HOT-MIX ASPHALT SURFACE REMOVAL, 3-1/4"



**NOTE:**  
MAINLINE PAVING TO  
EXTEND 1' ONTO HMA  
SHOULDERS. SEE TYPICAL  
SECTIONS.

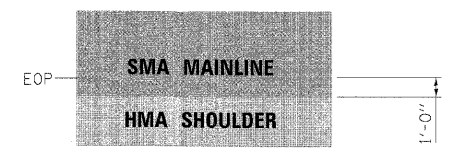
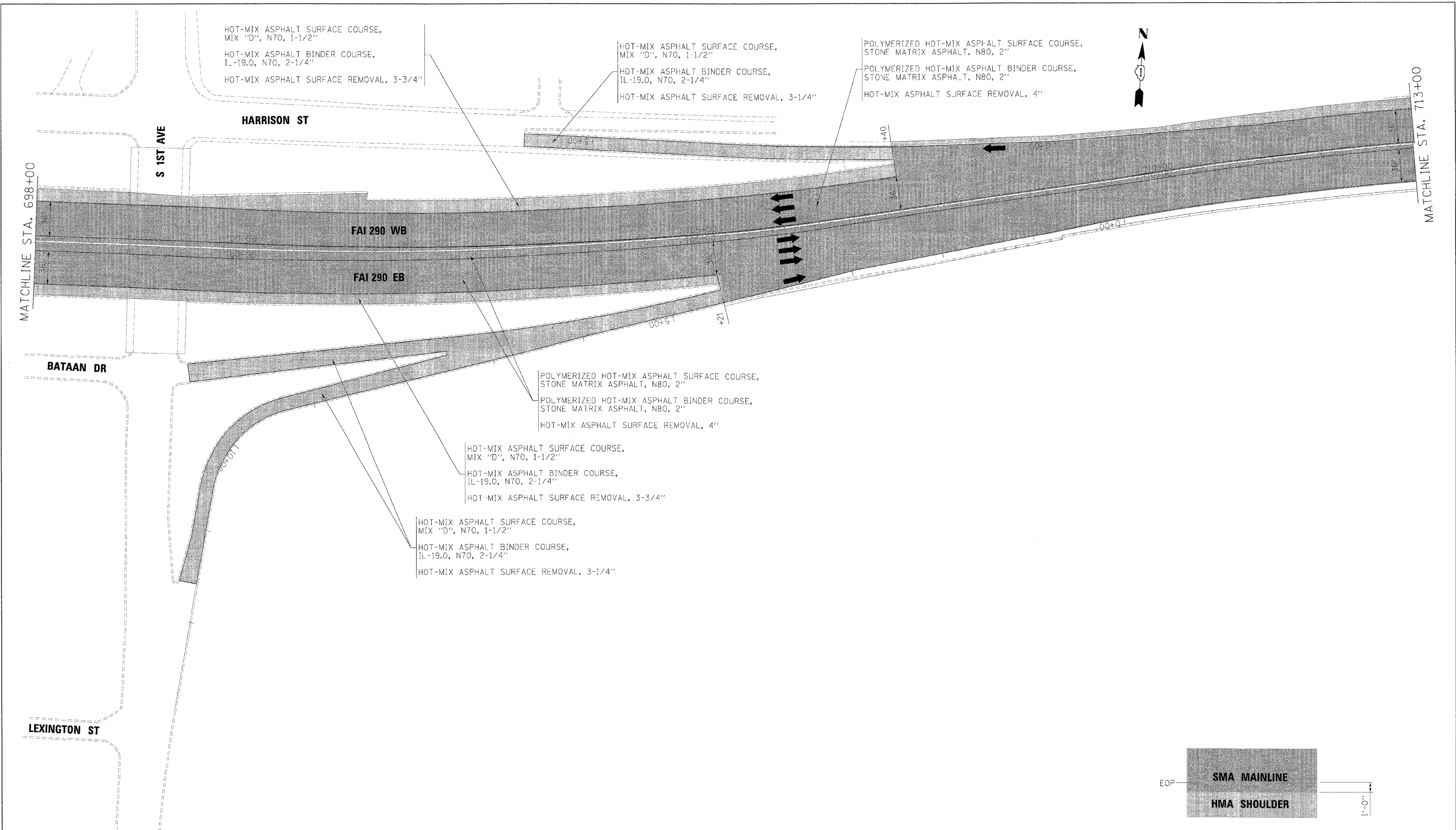
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...prpln ARC 02.298.plan.20.dgn	DRAWN - TMB	REVISED -
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PLOT DATE = 11/13/2009	DATE - 10/16/09	REVISED -

**benesch**

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

ROADWAY PLAN			
I-290 MAINLINE STA 683+00 TO STA 698+00			
SCALE: 1"=50'	SHEET NO. 14 OF 31 SHEETS	STA.	TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	(3031.1, ETC., 3830RS-5	COOK	298	77
FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT			CONTRACT NO. 60652	



**NOTE:**  
 MAINLINE PAVING TO  
 EXTEND 1' ONTO HMA  
 SHOULDERS. SEE TYPICAL  
 SECTIONS.

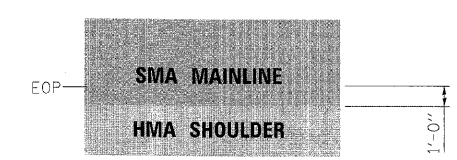
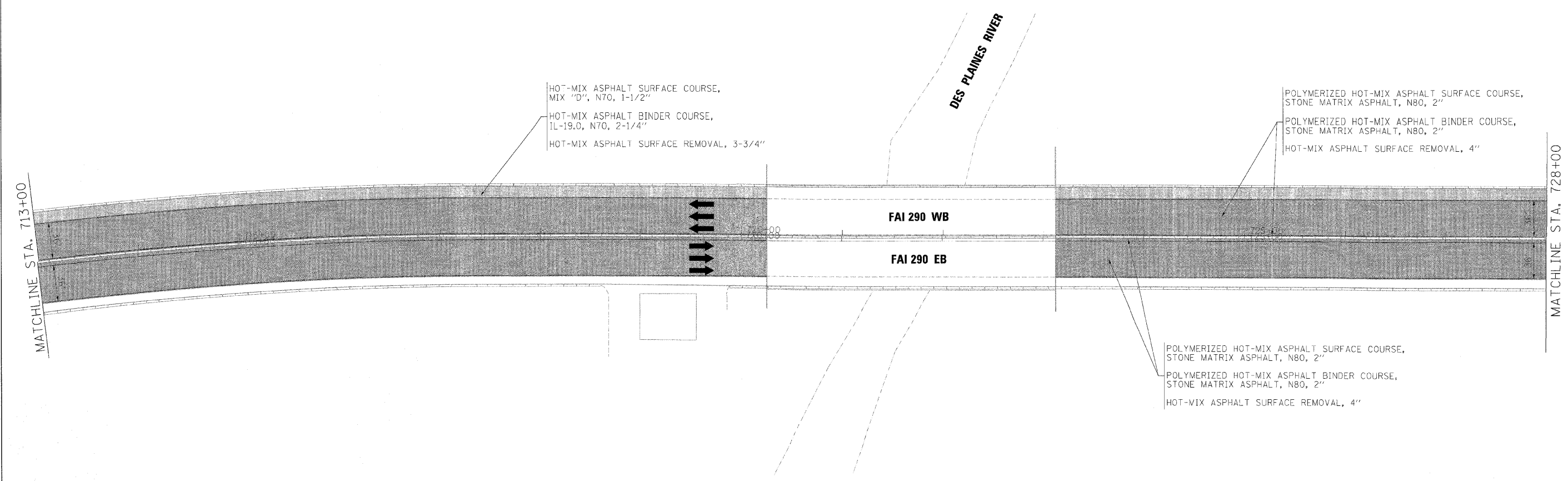
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PLOT DATE = 11/13/2009	CHECKED - JMM	REVISED -
	DATE - 10/16/09	REVISED -

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**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

ROADWAY PLAN			
I-290 MAINLINE STA 698+00 TO STA 713+00			
SCALE: 1"=50'	SHEET NO. 15 OF 31 SHEETS	STA.	TO STA.

F.A.I. RITE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	(3031.1, ETC., 3838)RS-5	COOK	298	78
FED. ROAD DIST. NO. [ILINDIS] FED. AID PROJECT			CONTRACT NO. 60G52	



**NOTE:**  
 MAINLINE PAVING TO EXTEND ONTO HMA SHOULDERS. SEE TYPICAL SECTIONS.

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PLOT DATE = 11/13/2009	DATE = 10/16/09	REVISED -

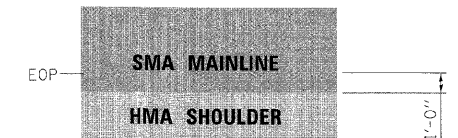
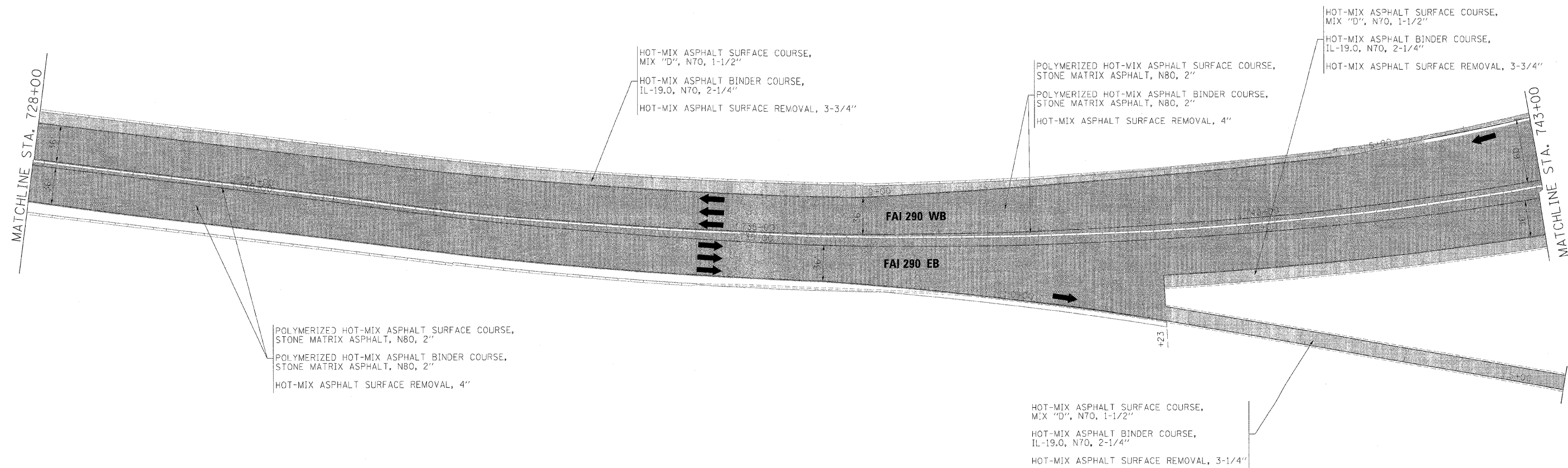
**benesch**

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**ROADWAY PLAN**  
**I-290 MAINLINE STA 713+00 TO STA 728+00**

SCALE: 1"=50' SHEET NO. 16 OF 31 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	(3031.1, ETC., 3838RS-5	COOK	298	79
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 60C52	



**NOTE:**  
 MAINLINE PAVING TO  
 EXTEND 1' ONTO HMA  
 SHOULDERS. SEE TYPICAL  
 SECTIONS.

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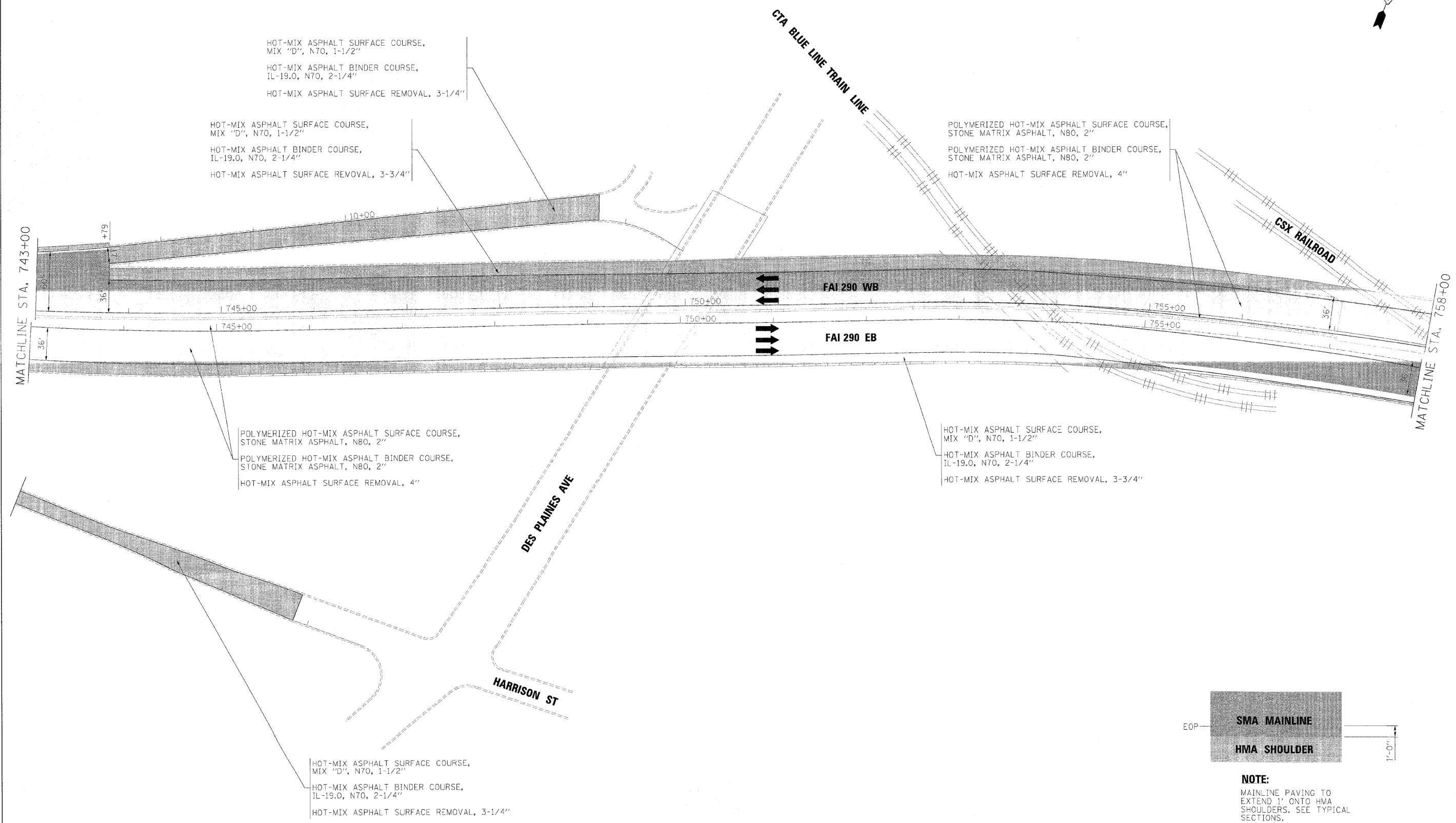
**benesch**

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

<b>ROADWAY PLAN</b>			
<b>I-290 MAINLINE STA 728+00 TO STA 743+00</b>			
SCALE: 1"=50'	SHEET NO. 17 OF 31 SHEETS	STA. TO STA.	

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	(3031.1, ETC., 3838RS-5	COOK	298	80
FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT			CONTRACT NO. 60G52	





HOT-MIX ASPHALT SURFACE COURSE,  
MIX "D", N70, 1-1/2"  
HOT-MIX ASPHALT BINDER COURSE,  
IL-19.0, N70, 2-1/4"  
HOT-MIX ASPHALT SURFACE REMOVAL, 3-3/4"

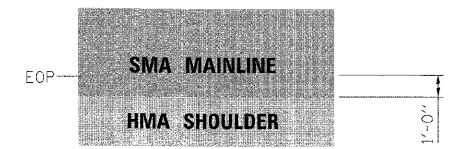
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MIX "D", N70, 1-1/2"  
HOT-MIX ASPHALT BINDER COURSE,  
IL-19.0, N70, 2-1/4"  
HOT-MIX ASPHALT SURFACE REMOVAL, 3-3/4"

POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE,  
STONE MATRIX ASPHALT, N80, 2"  
POLYMERIZED HOT-MIX ASPHALT BINDER COURSE,  
STONE MATRIX ASPHALT, N80, 2"  
HOT-MIX ASPHALT SURFACE REMOVAL, 4"

POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE,  
STONE MATRIX ASPHALT, N80, 2"  
POLYMERIZED HOT-MIX ASPHALT BINDER COURSE,  
STONE MATRIX ASPHALT, N80, 2"  
HOT-MIX ASPHALT SURFACE REMOVAL, 4"

HOT-MIX ASPHALT SURFACE COURSE,  
MIX "D", N70, 1-1/2"  
HOT-MIX ASPHALT BINDER COURSE,  
IL-19.0, N70, 2-1/4"  
HOT-MIX ASPHALT SURFACE REMOVAL, 3-3/4"

HOT-MIX ASPHALT SURFACE COURSE,  
MIX "D", N70, 1-1/2"  
HOT-MIX ASPHALT BINDER COURSE,  
IL-19.0, N70, 2-1/4"  
HOT-MIX ASPHALT SURFACE REMOVAL, 3-1/4"



**NOTE:**  
MAINLINE PAVING TO  
EXTEND 1' ONTO HMA  
SHOULDERS. SEE TYPICAL  
SECTIONS.

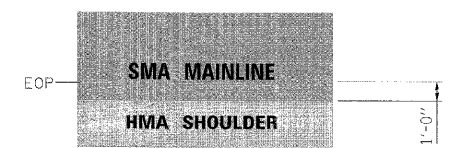
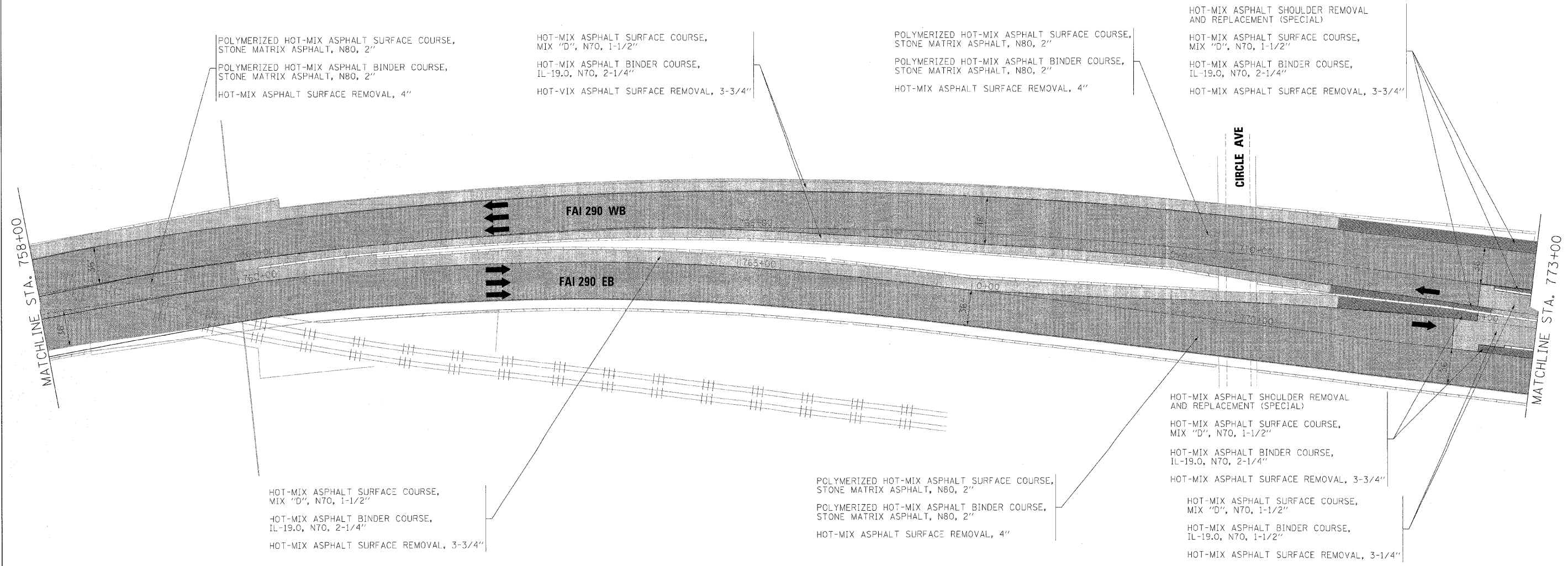
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PLOT DATE = 11/13/2009	DATE - 10/16/09	REVISED -

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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

ROADWAY PLAN			
I-290 MAINLINE STA 743+00 TO STA 758+00			
SCALE: 1"=50'	SHEET NO. 18 OF 31 SHEETS	STA.	TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	(3031.1, ETC., 3838)RS-5	COOK	298	81
FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT			CONTRACT NO. 60G52	



**NOTE:**  
 MAINLINE PAVING TO  
 EXTEND 1' ONTO HMA  
 SHOULDERS. SEE TYPICAL  
 SECTIONS.

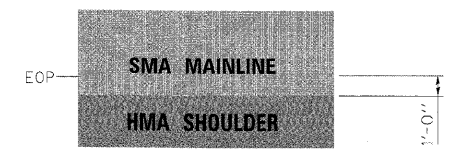
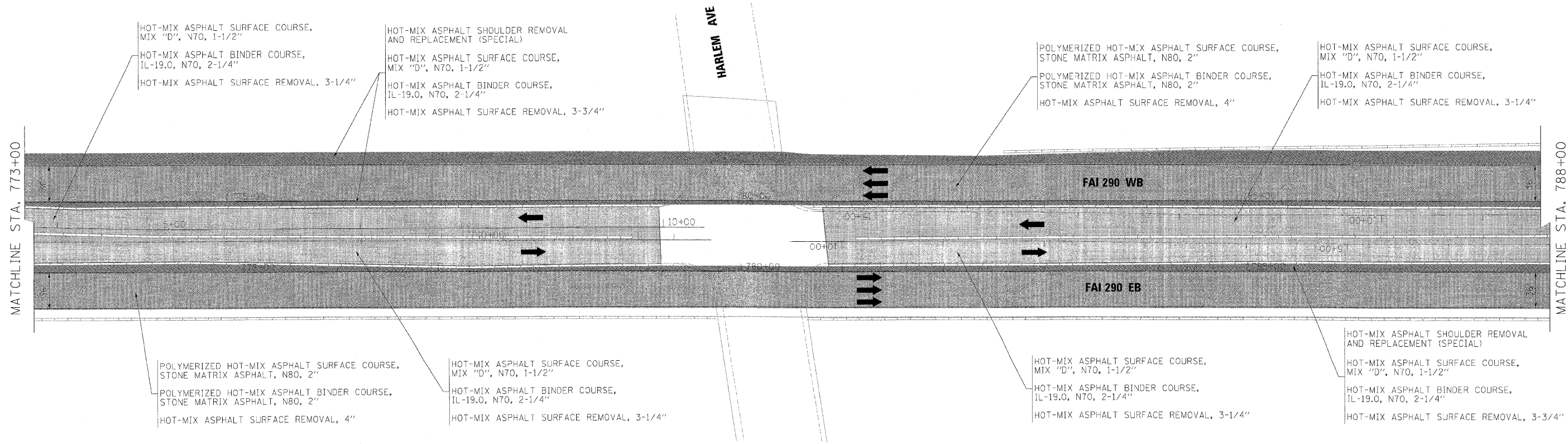
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PLDT DATE = 11/13/2009	DATE - 10/16/09	REVISED -

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**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**ROADWAY PLAN**  
**I-290 MAINLINE STA 758+00 TO STA 773+00**  
 SCALE: 1"=50' SHEET NO. 19 OF 31 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	(3031.1, ETC., 3838)RS-5	COOK	298	82
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 60G52	



**NOTE:**  
 MAINLINE PAVING TO  
 EXTEND 1' ONTO HMA  
 SHOULDERS. SEE TYPICAL  
 SECTIONS.

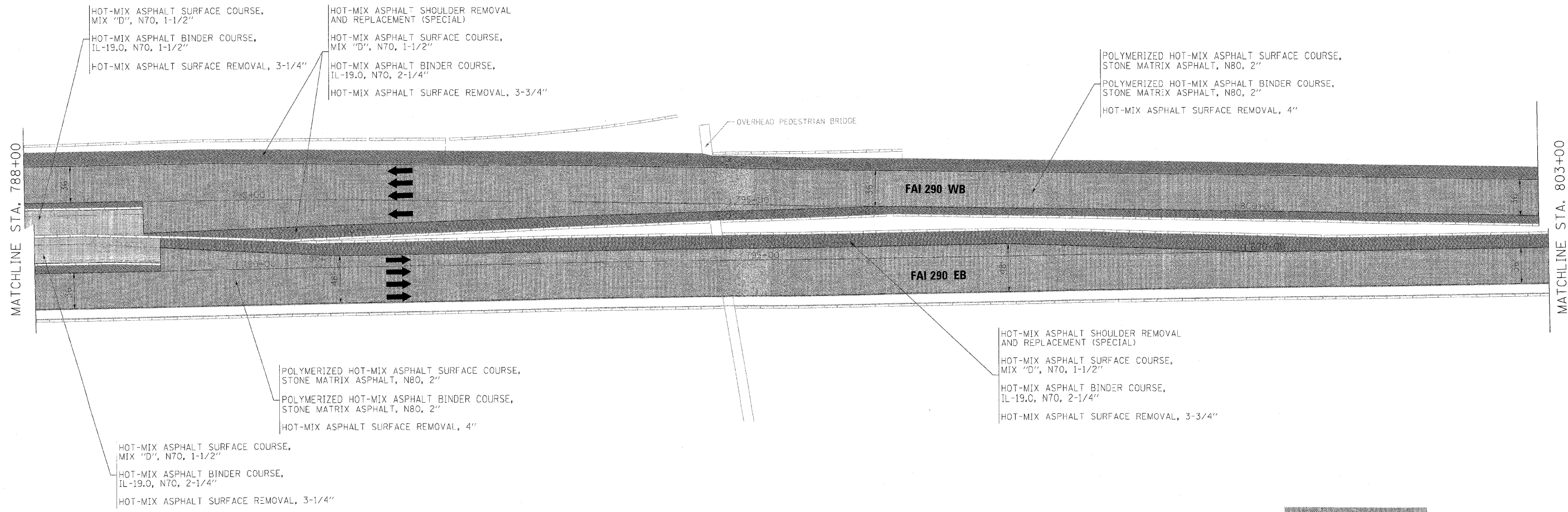
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PLOT DATE = 11/13/2009	DATE - 10/16/09	REVISED -

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**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

ROADWAY PLAN			
I-290 MAINLINE STA 773+00 TO STA 788+00			
SCALE: 1"=50'	SHEET NO. 20 OF 31 SHEETS	STA.	TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	(3031.1, ETC., 3838RS-5	COOK	298	83
CONTRACT NO. 60G52				
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		



**NOTE:**  
 MAINLINE PAVING TO EXTEND 1' ONTO HMA SHOULDERS. SEE TYPICAL SECTIONS.

FILE NAME =	DESIGNED - AJP	REVISED -
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PLOT DATE = 11/13/2009	DATE - 10/16/09	REVISED -

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**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

ROADWAY PLAN			
I-290 MAINLINE STA 788+00 TO STA 803+00			
SCALE: 1"=50'	SHEET NO. 21 OF 31 SHEETS	STA.	TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	(3031.1, ETC., 3838RS-5	COOK	298	84
FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT	
			CONTRACT NO. 60G52	



MATCHLINE STA. 803+00

MATCHLINE STA. 818+00

HOT-MIX ASPHALT SHOULDER REMOVAL AND REPLACEMENT (SPECIAL)  
 HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70, 1-1/2"  
 HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70, 2-1/4"  
 HOT-MIX ASPHALT SURFACE REMOVAL, 3-3/4"

POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, STONE MATRIX ASPHALT, N80, 2"  
 POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, STONE MATRIX ASPHALT, N80, 2"  
 HOT-MIX ASPHALT SURFACE REMOVAL, 4"



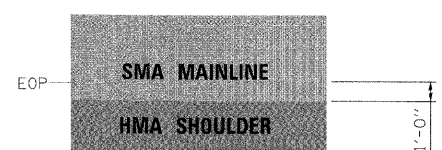
FAI 290 WB

FAI 290 EB

S OAK PARK AVE

HOT-MIX ASPHALT SHOULDER REMOVAL AND REPLACEMENT (SPECIAL)  
 HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70, 1-1/2"  
 HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70, 2-1/4"  
 HOT-MIX ASPHALT SURFACE REMOVAL, 3-3/4"

POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, STONE MATRIX ASPHALT, N80, 2"  
 POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, STONE MATRIX ASPHALT, N80, 2"  
 HOT-MIX ASPHALT SURFACE REMOVAL, 4"



**NOTE:**  
 MAINLINE PAVING TO EXTEND 1' ONTO HMA SHOULDERS. SEE TYPICAL SECTIONS.

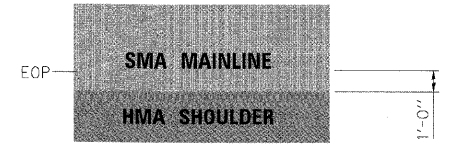
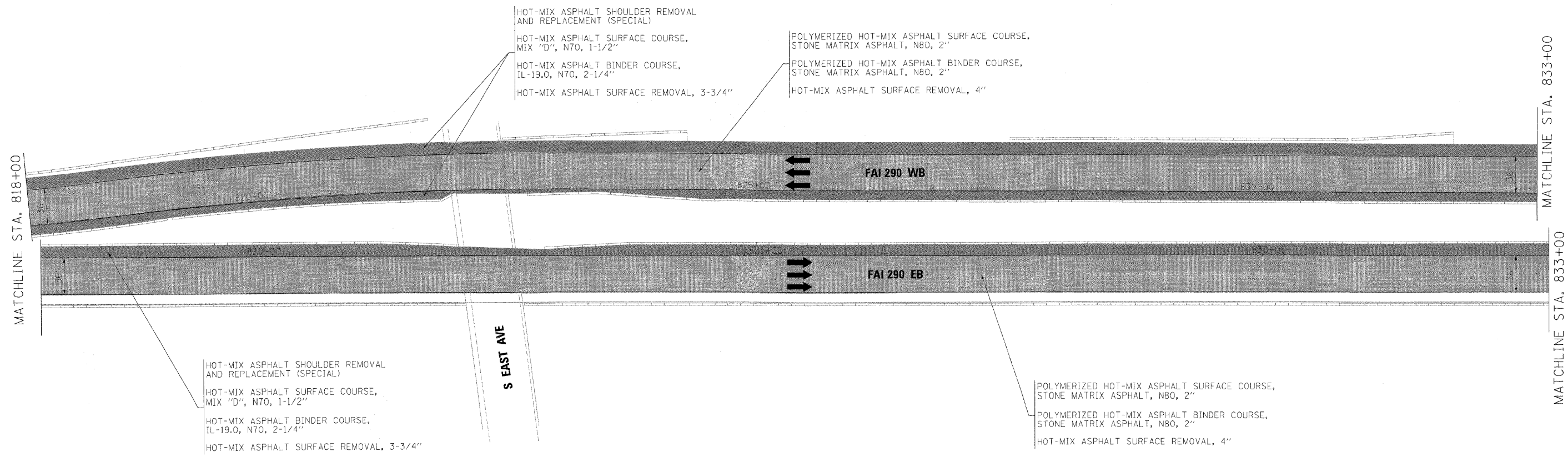
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PLD1 DATE = 11/13/2009	DATE - 10/16/09	REVISED -

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**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

<b>ROADWAY PLAN</b>			
<b>I-290 MAINLINE STA 803+00 TO STA 818+00</b>			
SCALE: 1"=50'	SHEET NO. 22 OF 31 SHEETS	STA.	TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	(3031.1, ETC., 3838)RS-5	COOK	298	85
FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT	
			CONTRACT NO. 60G52	



**NOTE:**  
 MAINLINE PAVING TO EXTEND 1' ONTO HMA SHOULDERS. SEE TYPICAL SECTIONS.

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PLOT DATE = 11/13/2009	DATE - 10/16/09	REVISED -

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STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

<b>ROADWAY PLAN</b>			
<b>I-290 MAINLINE STA 818+00 TO STA 833+00</b>			
SCALE: 1"=50'	SHEET NO. 23 OF 31 SHEETS	STA. TO STA.	

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	13031.1, ETC., 3830RS-5	COOK	298	86
FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT			CONTRACT NO. 60052	



MATCHLINE STA. 833+00

MATCHLINE STA. 833+00

S RIDGELAND AVE

HOT-MIX ASPHALT SHOULDER REMOVAL AND REPLACEMENT (SPECIAL)  
 HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70, 1-1/2"  
 HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70, 2-1/4"  
 HOT-MIX ASPHALT SURFACE REMOVAL, 3-3/4"

POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, STONE MATRIX ASPHALT, N80, 2"  
 POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, STONE MATRIX ASPHALT, N80, 2"  
 HOT-MIX ASPHALT SURFACE REMOVAL, 4"

FAI 290 WB



FAI 290 EB

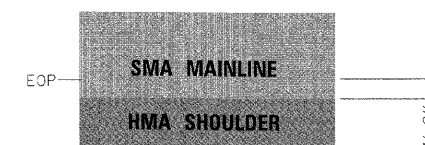


POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, STONE MATRIX ASPHALT, N80, 2"  
 POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, STONE MATRIX ASPHALT, N80, 2"  
 HOT-MIX ASPHALT SURFACE REMOVAL, 4"

HOT-MIX ASPHALT SHOULDER REMOVAL AND REPLACEMENT (SPECIAL)  
 HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70, 1-1/2"  
 HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70, 2-1/4"  
 HOT-MIX ASPHALT SURFACE REMOVAL, 3-3/4"

MATCHLINE STA. 848+00

MATCHLINE STA. 848+00



**NOTE:**

MAINLINE PAVING TO EXTEND 1' ONTO HMA SHOULDERS. SEE TYPICAL SECTIONS.

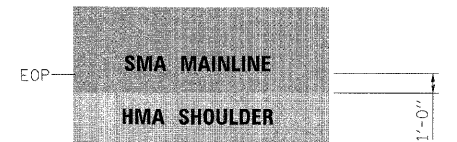
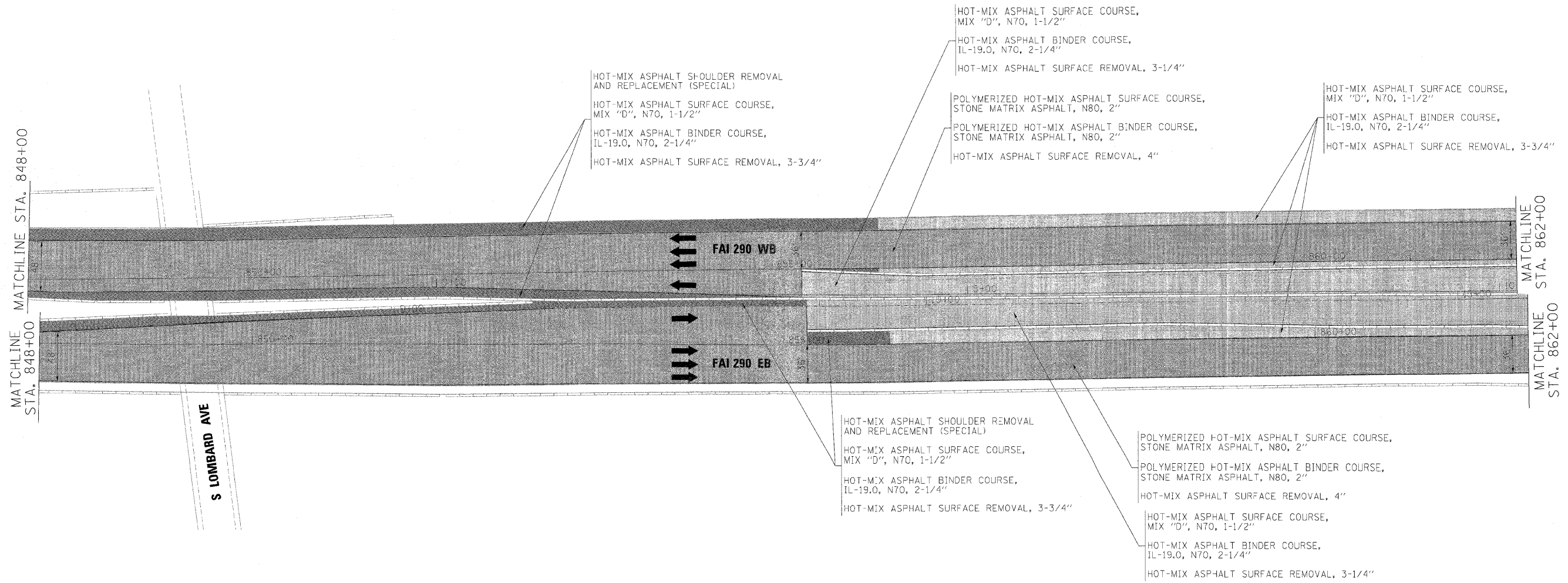
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**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

<b>ROADWAY PLAN</b>			
<b>I-290 MAINLINE STA 833+00 TO STA 848+00</b>			
SCALE: 1"=50'	SHEET NO. 24 OF 31 SHEETS	STA.	TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	(3031.1, ETC., 3838)RS-5	COOK	298	87
FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT			CONTRACT NO. 60C52	



**NOTE:**  
 MAINLINE PAVING TO EXTEND 1' ONTO HMA SHOULDERS. SEE TYPICAL SECTIONS.

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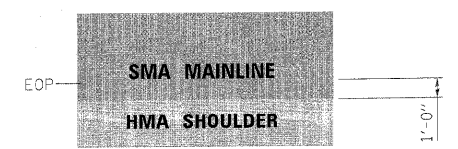
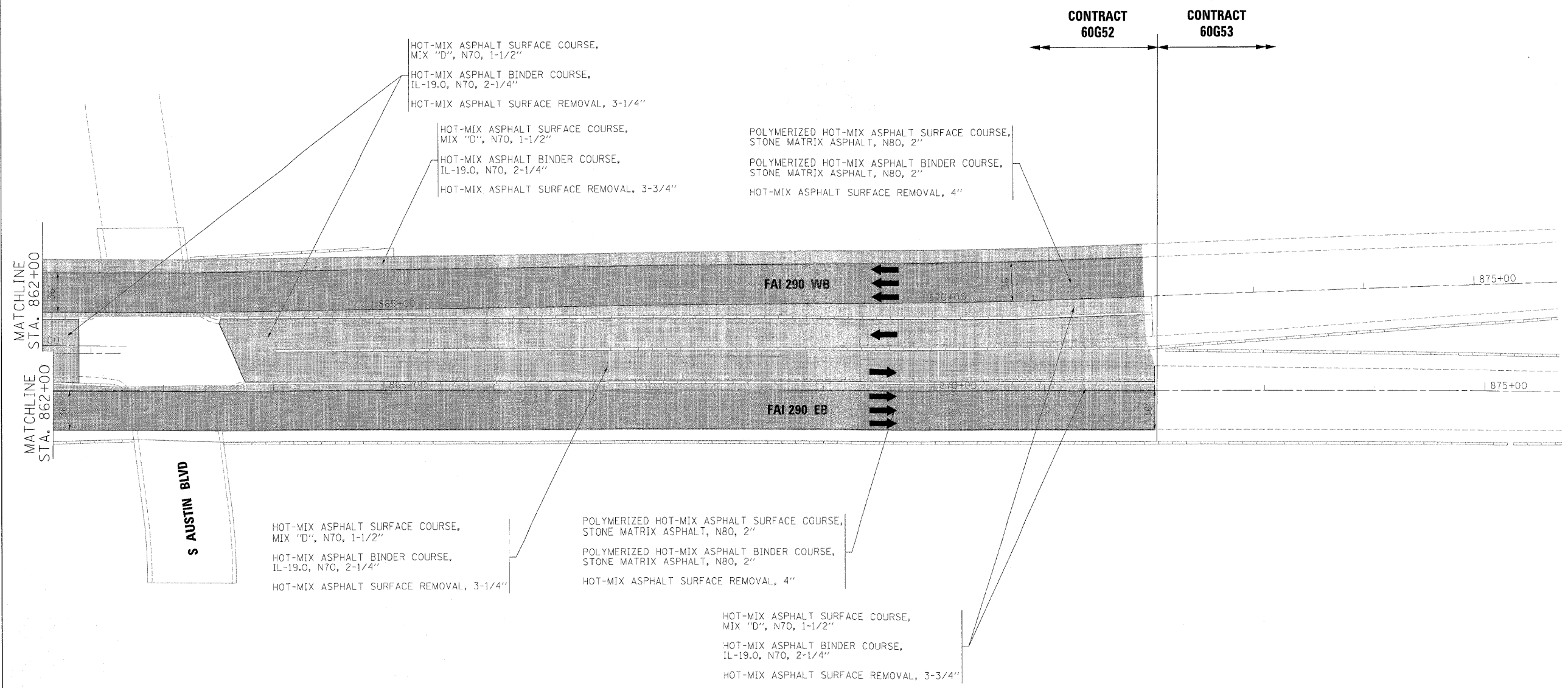
**benesch**

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

ROADWAY PLAN			
<b>I-290 MAINLINE STA 848+00 TO STA 862+00</b>			
SCALE: 1"=50'	SHEET NO. 25 OF 31 SHEETS	STA. TO STA.	

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	(303)1.1, ETC., 3838RS-5	COOK	298	88
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 60G52	





**NOTE:**  
 MAINLINE PAVING TO  
 EXTEND 1' ONTO HMA  
 SHOULDERS. SEE TYPICAL  
 SECTIONS.

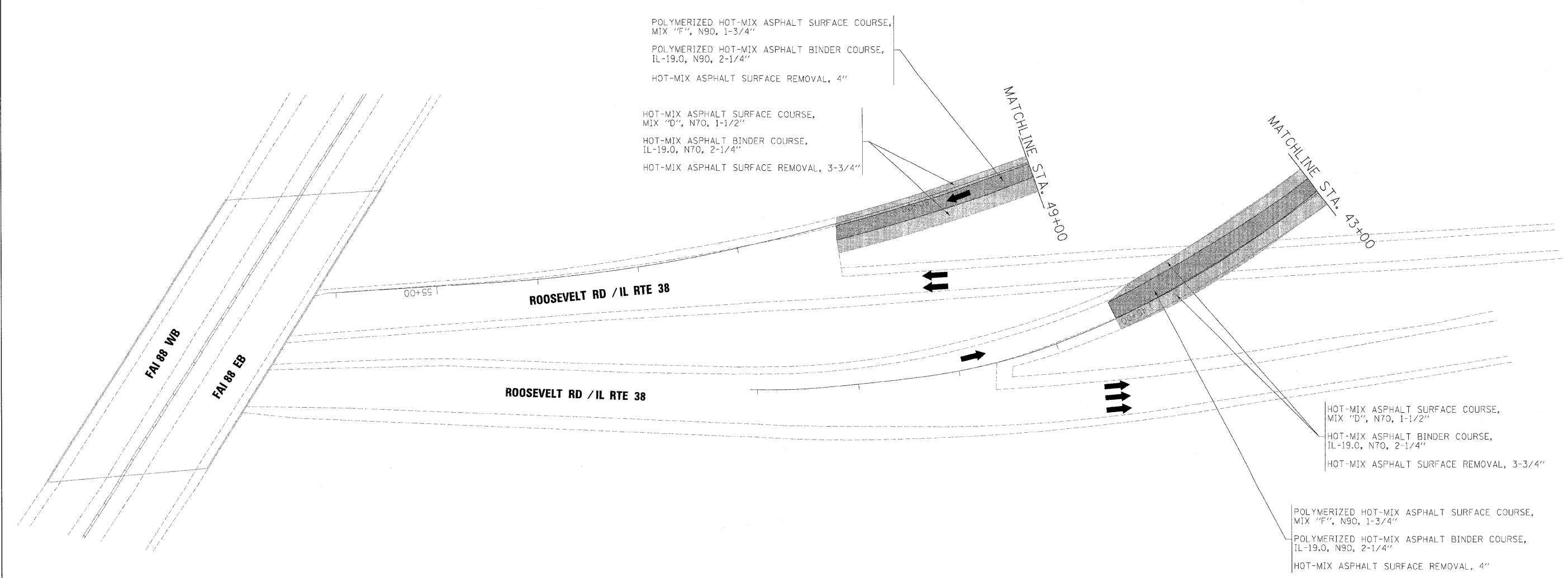
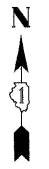
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PLOT DATE = 11/13/2009	DATE - 10/16/09	REVISED -

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**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

<b>ROADWAY PLAN</b>			
<b>I-290 MAINLINE STA 862+00 TO P.O.E.</b>			
SCALE: 1"=50'	SHEET NO. 26 OF 31 SHEETS	STA. _____	TO STA. _____

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	(3031.1, ETC., 3838/RS-5	COOK	298	89
CONTRACT NO. 60G52				
FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT				



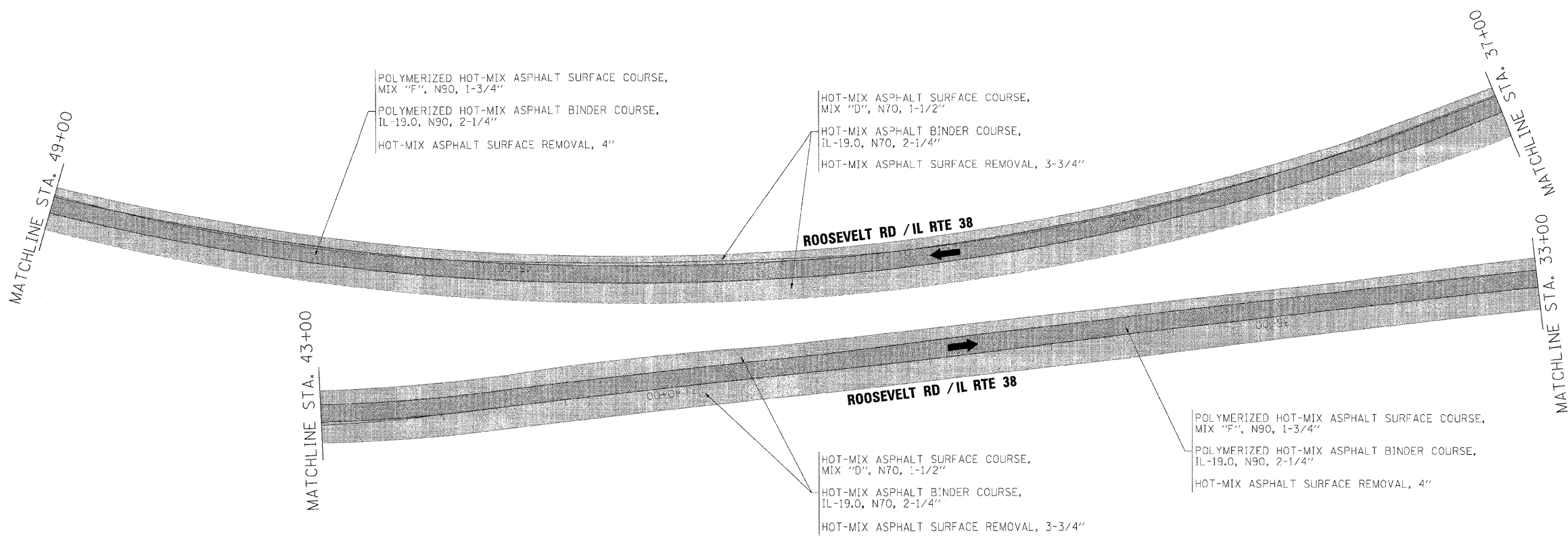
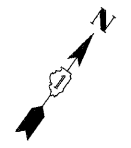
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PLOT DATE = 11/13/2009	DATE - 10/16/09	REVISED -

**benesch**

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>ROADWAY PLAN ROOSEVELT ROAD/IL RTE 38</b>	
SCALE: 1"=50'	SHEET NO. 27 OF 31 SHEETS
STA.	TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	(3031.1, ETC., 3838)RS-5	COOK	298	90
CONTRACT NO. 60652				
FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT				



FILE NAME =	DESIGNED - AJP	REVISED -
...\\ppln_abc.c2.138.pln.02.dgn	DRAWN - TMB	REVISED -
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PLDT DATE = 11/13/2009	DATE - 10/16/09	REVISED -

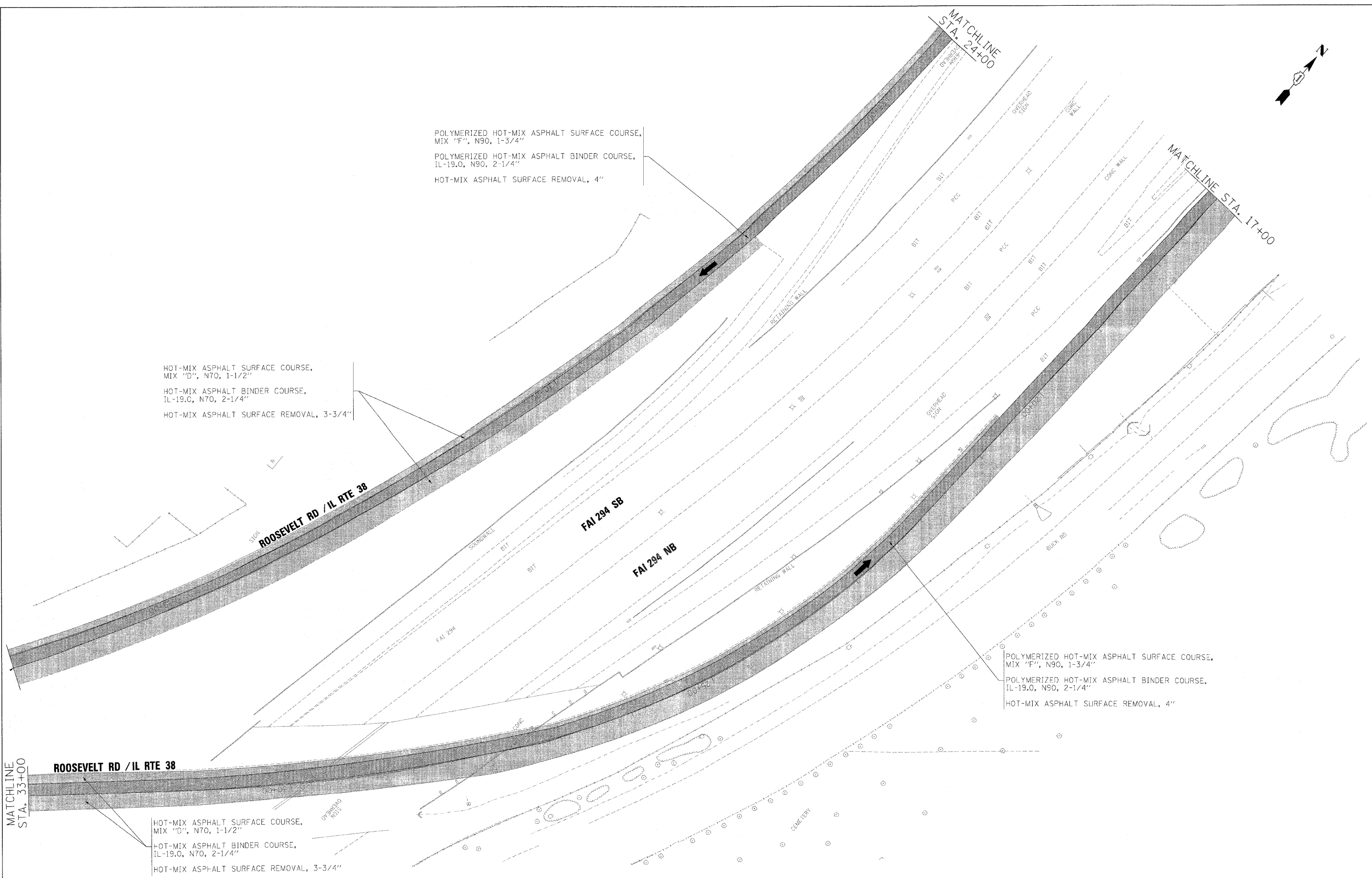
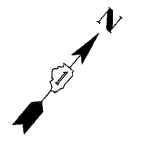
**benesch**

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**ROADWAY PLAN  
ROOSEVELT ROAD/IL RTE 38**

SCALE: 1"=50' SHEET NO. 28 OF 31 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	(3031.1, ETC., 3838RS-5	COOK	298	91
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 60G52	



POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE,  
MIX "F", N90, 1-3/4"  
POLYMERIZED HOT-MIX ASPHALT BINDER COURSE,  
IL-19.0, N90, 2-1/4"  
HOT-MIX ASPHALT SURFACE REMOVAL, 4"

HOT-MIX ASPHALT SURFACE COURSE,  
MIX "D", N70, 1-1/2"  
HOT-MIX ASPHALT BINDER COURSE,  
IL-19.0, N70, 2-1/4"  
HOT-MIX ASPHALT SURFACE REMOVAL, 3-3/4"

POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE,  
MIX "F", N90, 1-3/4"  
POLYMERIZED HOT-MIX ASPHALT BINDER COURSE,  
IL-19.0, N90, 2-1/4"  
HOT-MIX ASPHALT SURFACE REMOVAL, 4"

HOT-MIX ASPHALT SURFACE COURSE,  
MIX "D", N70, 1-1/2"  
HOT-MIX ASPHALT BINDER COURSE,  
IL-19.0, N70, 2-1/4"  
HOT-MIX ASPHALT SURFACE REMOVAL, 3-3/4"

MATCHLINE  
STA. 33+00

MATCHLINE  
STA. 24+00

MATCHLINE  
STA. 17+00

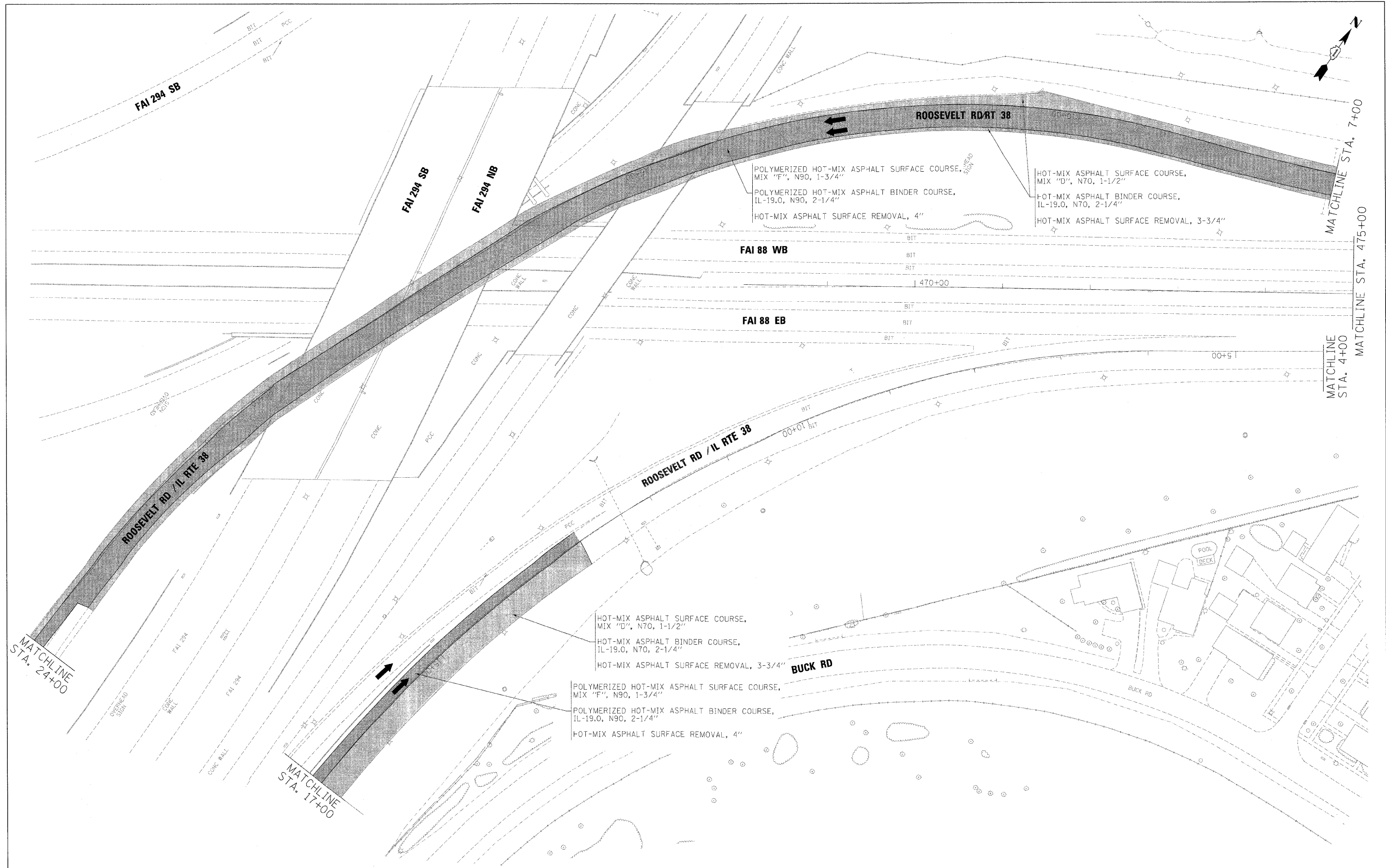
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PLOT DATE = 11/13/2009	DATE - 10/16/09	REVISED -

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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

ROADWAY PLAN ROOSEVELT ROAD/IL RTE 38			
SCALE: 1"=50'	SHEET NO. 29 OF 31 SHEETS	STA.	TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	(3031.1, ETC., 383BIRS-5	COOK	298	92
CONTRACT NO. 60G52				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



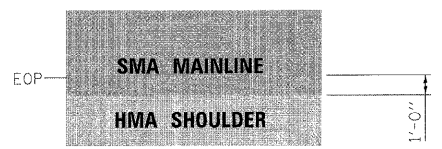
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PLT DATE = 11/13/2009	DATE - 10/16/09	REVISED -

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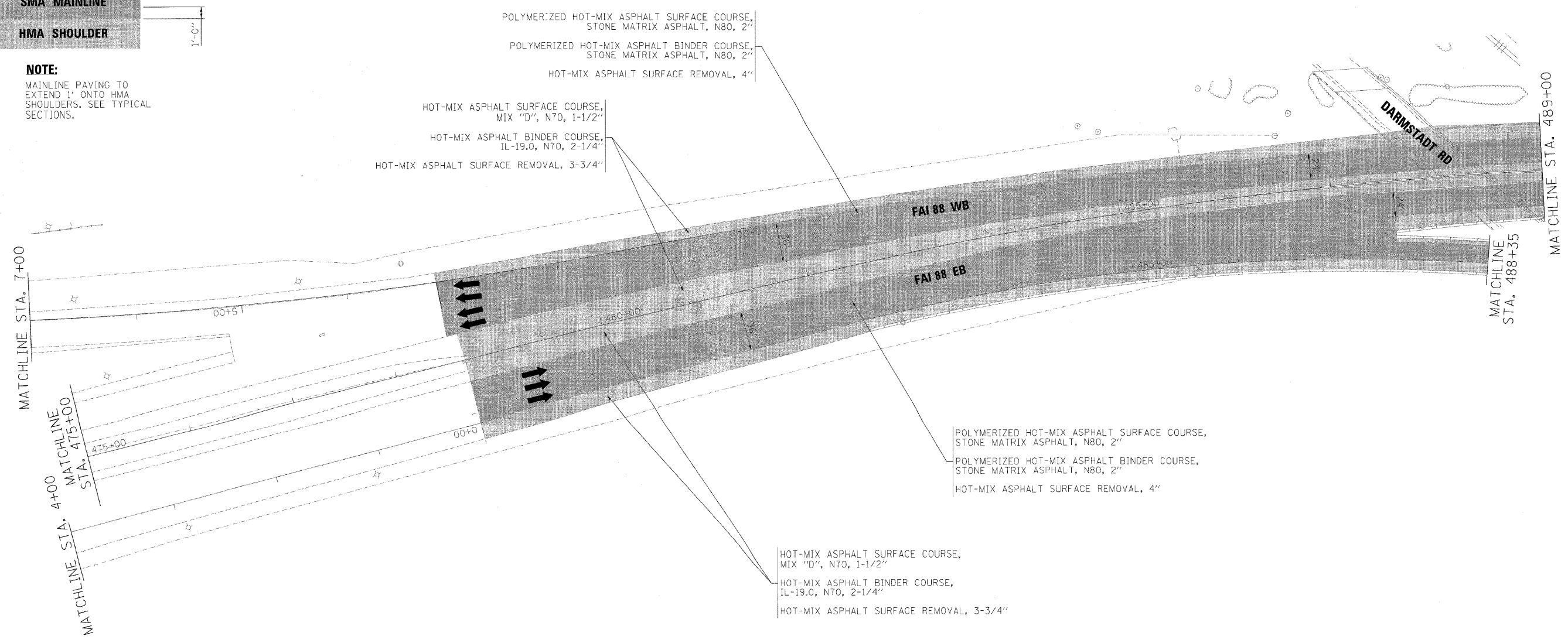
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>ROADWAY PLAN ROOSEVELT ROAD/IL RTE 38</b>			
SCALE: 1"=50'	SHEET NO. 30 OF 31 SHEETS	STA. _____	TO STA. _____

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	(3031.1, ETC., 3838RS-5	COOK	298	93
FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT			CONTRACT NO. 60G52	



**NOTE:**  
MAINLINE PAVING TO  
EXTEND 1' ONTO HMA  
SHOULDERS. SEE TYPICAL  
SECTIONS.



FILE NAME =	DESIGNED - AJP	REVISED -
...\\prpln\ABC\02.138.pln_05.dgn	DRAWN - TMB	REVISED -
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PLT DATE = 11/13/2009	DATE - 10/16/09	REVISED -

**benesch**

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**ROADWAY PLAN  
ROOSEVELT ROAD/IL RTE 38**

SCALE: 1"=50' SHEET NO. 31 OF 31 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	(3031.1, ETC., 3838)RS-5	COOK	298	94
CONTRACT NO. 60G52				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

**STAGE 1**

INSTALL TEMPORARY SIGNING, STRIPING AND OTHER TRAFFIC CONTROL DEVICES NECESSARY FOR THE STAGE 1 TRAFFIC CONFIGURATION, INCLUDING THE NECESSARY MODIFICATIONS TO THE EXISTING GROUND MOUNTED AND OVERHEAD SIGNS.

TRAFFIC

EB I-88

1. TWO LANES OF EASTBOUND I-88 TRAFFIC WILL BE ROUTED ONTO THE CD ROAD AS SHOWN ON THE PLANS. EASTBOUND I-88 TRAFFIC WILL NOT BE ALLOWED TO ENTER MAINLINE I-290 UNTIL THE CD ROAD ENTRANCE MERGES WITH I-290.

EB I-290

1. FROM THE WESTERN PROJECT LIMITS, TRAFFIC WILL BE REDUCED TO TWO LANES EASTBOUND AND SHIFTED TO THE INSIDE SHOULDER. THE LANE CONFIGURATION AND ADVANCE SIGNAGE REQUIRED WEST OF THE I-290 BRIDGE OVER I-88 WILL BE COORDINATED WITH CONTRACT 60157.
2. TRAFFIC WILL BE SHIFTED TO THE INSIDE SHOULDER FROM THE I-290 BRIDGE OVER I-88 TO EAST OF THE I-290 BRIDGE OVER HILLSIDE DRIVE.
3. EAST OF HILLSIDE DRIVE, TRAFFIC WILL BE SHIFTED FROM THE INSIDE SHOULDER TO THE EXISTING INSIDE AND MIDDLE LANES. THE OUTSIDE LANE WILL REMAIN CLOSED TO TRAFFIC.
4. TRAFFIC WILL BE SHIFTED TO THE INSIDE SHOULDER AS IT APPROACHES THE ADDISON CREEK BRIDGE. EAST OF THE ADDISON CREEK BRIDGE, TRAFFIC WILL BE SHIFTED BACK TO THE EXISTING MIDDLE AND INSIDE LANES. THE OUTSIDE LANE WILL BE CLOSED.
5. TRAFFIC WILL BE SHIFTED TO THE INSIDE SHOULDER PRIOR TO THE DES PLAINES RIVER BRIDGE.
6. EAST OF THE DES PLAINES RIVER BRIDGE, TRAFFIC WILL BE SHIFTED FROM THE INSIDE SHOULDER TO THE EXISTING INSIDE AND MIDDLE LANES PRIOR TO RE-OPENING THE OUTSIDE LANE.
7. EAST OF THE DES PLAINES RIVER BRIDGE, THREE EASTBOUND LANES WILL BE MAINTAINED TO THE EASTERN CONTRACT LIMIT.
8. THE COLLECTOR-DISTRIBUTOR ROAD FROM I-88 THROUGH MANNHEIM ROAD WILL REMAIN OPEN WITH TRAFFIC IN THE EXISTING CONFIGURATION. WORK ON THE C-D ROAD BRIDGES SHALL BE PERFORMED WITH NIGHTTIME OR WEEKEND CLOSURES.

WB I-290

1. FROM THE EASTERN PROJECT LIMITS, TRAFFIC WILL BE REDUCED TO TWO WESTBOUND LANES. THE OUTSIDE LANE WILL BE CLOSED. ALL ENTRANCE AND EXIT RAMPS MUST REMAIN OPEN. THE LANE CONFIGURATION AND ADVANCE SIGNAGE REQUIRED EAST OF THE PROJECT LIMIT WILL BE COORDINATED WITH CONTRACT 60653.
2. THE TWO WESTBOUND LANES WILL BE MAINTAINED IN THE MIDDLE AND INSIDE LANE FROM THE EASTERN CONTRACT LIMITS TO THE DES PLAINES RIVER BRIDGE. TWO LANES OF TRAFFIC WILL SHIFT TO THE INSIDE SHOULDER EAST OF THE DES PLAINES RIVER BRIDGE. WEST OF THE BRIDGE, TRAFFIC WILL SHIFT TO THE EXISTING MIDDLE LANE AND INSIDE LANE. THE OUTSIDE LANE WILL REMAIN CLOSED.
3. EAST OF THE ADDISON CREEK BRIDGE, TRAFFIC WILL BE SHIFTED TO THE INSIDE SHOULDER. WEST OF THE BRIDGE, BOTH LANES WILL BE SHIFTED TO THE EXISTING MIDDLE AND INSIDE LANES, WITH THE OUTSIDE LANE REMAINING CLOSED.
4. EAST OF THE HILLSIDE DRIVE BRIDGE, TWO LANES OF TRAFFIC SHIFT TO THE INSIDE SHOULDER THROUGH THE WOLF ROAD BRIDGE.
5. WEST OF THE WOLF ROAD BRIDGE, THE OUTSIDE LANE OF TRAFFIC SPLITS TO WESTBOUND I-290, WHILE THE INSIDE LANE SPLITS OFF TO WESTBOUND I-88.

CONSTRUCTION

BEGIN PAVEMENT PATCHING WHERE POSSIBLE BY UTILIZING LANE CLOSURES IMPLEMENTED IN THE STAGE 1 MAINTENANCE OF TRAFFIC PLANS. RECONSTRUCT THE WESTBOUND OUTSIDE SHOULDER AT THE LOCATIONS INDICATED IN THE PLANS

I-290 EB OVER I-88 (SN 016-0085)

1. REPAIR BRIDGE DECK.
2. REPAIR APPROACH SLABS.
3. RECONSTRUCT DECK JOINTS AT EACH ABUTMENT WITH PREFORMED JOINT STRIP SEAL.
4. CLEAN AND RESEAL RELIEF JOINTS AT THE ENDS OF APPROACH PAVEMENT CONNECTORS.
5. APPLY CONCRETE SEALER TO BRIDGE DECK, APPROACH SLABS AND PARAPETS.

I-290 OVER WOLF RD. (SN 016-0086)

1. REPAIR BRIDGE DECKS.
2. REPAIR APPROACH SLABS.
3. REPLACE PREFORMED JOINT SEALS WITH SILICONE JOINT SEALS.
4. CLEAN AND RESEAL RELIEF JOINTS AT THE ENDS OF APPROACH PAVEMENT CONNECTORS.
5. APPLY CONCRETE SEALER TO BRIDGE DECK, APPROACH SLABS AND PARAPETS.

I-290 OVER HILLSIDE DR. (SN 016-0986)

1. REPAIR BRIDGE DECKS.
2. REPAIR APPROACH SLABS.
3. REPAIR ABUTMENTS WITH FORMED CONCRETE REPAIR.
4. REPLACE PREFORMED JOINT SEALS WITH SILICONE JOINT SEALS.
5. CLEAN AND RESEAL RELIEF JOINTS AT THE ENDS OF APPROACH PAVEMENT CONNECTORS.
6. APPLY CONCRETE SEALER TO BRIDGE DECK, APPROACH SLABS AND PARAPETS.

I-290 EB C-D RD. OVER WOLF RD. (SN 016-2758) AND I-290 EB C-D RD. OVER HILLSIDE DR. (SN 016-2759)

APPLY CONCRETE SEALER TO BRIDGE DECK, APPROACH SLABS AND PARAPETS.

I-290 OVER ADDISON CREEK (SN 016-0088)

1. REPAIR BRIDGE DECKS.
2. REPAIR APPROACH SLABS.
3. REPLACE PREFORMED JOINT SEALS WITH SILICONE JOINT SEALS.
4. CLEAN AND RESEAL RELIEF JOINTS AT THE ENDS OF APPROACH PAVEMENT CONNECTORS.
5. APPLY CONCRETE SEALER TO BRIDGE DECK, APPROACH SLABS AND PARAPETS.

I-290 OVER DES PLAINES RIVER (SN 016-0090)

1. REPAIR BRIDGE DECKS.
2. REPAIR APPROACH SLABS.
3. REPLACE PREFORMED JOINT SEALS WITH SILICONE JOINT SEALS.
4. REMOVE AND REINSTALL CHAIN LINK FENCE POSTS, INCLUDING CONCRETE PARAPET REPAIRS.
5. CLEAN AND RESEAL RELIEF JOINTS AT THE ENDS OF APPROACH PAVEMENT CONNECTORS.
6. APPLY CONCRETE SEALER TO BRIDGE DECK, APPROACH SLABS AND PARAPETS.

**STAGE 2**

INSTALL TEMPORARY SIGNING, STRIPING AND OTHER TRAFFIC CONTROL DEVICES NECESSARY FOR THE STAGE 2 TRAFFIC CONFIGURATION, INCLUDING THE NECESSARY MODIFICATIONS TO THE EXISTING GROUND MOUNTED AND OVERHEAD SIGNS.

TRAFFIC

EB I-88

1. TWO LANES OF EASTBOUND I-88 TRAFFIC WILL BE ROUTED ONTO THE CD ROAD AS SHOWN ON THE PLANS. EASTBOUND I-88 TRAFFIC WILL NOT BE ALLOWED TO ENTER MAINLINE I-290 UNTIL THE CD ROAD ENTRANCE MERGES WITH I-290.

EB I-290

1. FROM THE WESTERN PROJECT LIMITS, TRAFFIC WILL BE REDUCED TO TWO LANES EASTBOUND AND SHIFTED TO THE OUTSIDE SHOULDER AT THE WEST END OF THE PROJECT. THE LANE CONFIGURATION AND ADVANCE SIGNAGE REQUIRED WEST OF THE I-290 BRIDGE OVER I-88 WILL BE COORDINATED WITH CONTRACT 60157.
2. TRAFFIC WILL BE SHIFTED TO THE OUTSIDE SHOULDER FROM THE I-290 BRIDGE OVER I-88 TO JUST EAST OF THE I-290 BRIDGE OVER HILLSIDE DRIVE.
3. EAST OF HILLSIDE DRIVE, TRAFFIC WILL BE SHIFTED FROM THE OUTSIDE SHOULDER TO THE EXISTING OUTSIDE AND MIDDLE LANES. THE INSIDE LANE WILL REMAIN CLOSED TO TRAFFIC.
4. TRAFFIC WILL BE SHIFTED TO THE OUTSIDE SHOULDER AS IT APPROACHES THE ADDISON CREEK BRIDGE. EAST OF THE ADDISON CREEK BRIDGE, TRAFFIC WILL BE SHIFTED BACK TO THE EXISTING OUTSIDE AND MIDDLE LANES. THE INSIDE LANE WILL REMAIN CLOSED.
5. TRAFFIC WILL BE SHIFTED TO THE OUTSIDE SHOULDER OVER THE DES PLAINES RIVER BRIDGE.
6. EAST OF DES PLAINES AVENUE, TRAFFIC WILL BE SHIFTED TO THE OUTSIDE SHOULDER. A THIRD LANE WILL BE ADDED TO THE INSIDE.
7. EAST OF DES PLAINES AVENUE, THREE EASTBOUND LANES OF TRAFFIC WILL BE MAINTAINED ON THE OUTSIDE SHOULDER TO JUST WEST OF AUSTIN AVENUE WHERE THEY WILL TRANSITION TO THE EXISTING CONFIGURATION.
8. THE COLLECTOR-DISTRIBUTOR ROAD FROM I-88 THROUGH MANNHEIM ROAD WILL REMAIN OPEN WITH TRAFFIC IN THE EXISTING CONFIGURATION. WORK ON THE C-D ROAD BRIDGES SHALL BE PERFORMED WITH NIGHTTIME OR WEEKEND CLOSURES.

WB I-290

1. FROM AUSTIN BOULEVARD, THREE WESTBOUND LANES WILL BE SHIFTED TO THE OUTSIDE SHOULDER. THE LANE CONFIGURATION AND ADVANCE SIGNAGE REQUIRED EAST OF THE PROJECT LIMIT WILL BE COORDINATED WITH CONTRACT 60653.
2. THE INSIDE LANE WILL EXIT AT HARLEM AVENUE. TWO WESTBOUND LANES WILL THEN SHIFT ONTO THE EXISTING INSIDE AND MIDDLE LANES. THE RIGHT LANE WILL BE CLOSED.
3. THE TWO WESTBOUND LANES WILL SHIFT TO THE OUTSIDE SHOULDER EAST OF THE DES PLAINES RIVER.
4. AFTER CROSSING THE DES PLAINES RIVER BRIDGE, BOTH LANES WILL SHIFT TO THE EXISTING MIDDLE AND OUTSIDE LANE. THE INSIDE LANE WILL REMAIN CLOSED.
5. TWO LANES WILL BE MAINTAINED WESTBOUND FROM DES PLAINES AVENUE TO THE I-88 INTERCHANGE WITH THE TRAFFIC BEING SHIFTED TO THE OUTSIDE SHOULDERS AT THE BRIDGES. THE INSIDE LANE WILL REMAIN CLOSED.

CONSTRUCTION

CONTINUE PAVEMENT PATCHING WHERE POSSIBLE BY UTILIZING LANE CLOSURES IMPLEMENTED IN THE STAGE 2 MAINTENANCE OF TRAFFIC PLANS.

RECONSTRUCT THE INSIDE SHOULDERS OF EASTBOUND AND WESTBOUND I-290 AT THE LOCATIONS INDICATED ON THE PLANS.

I-290 EB OVER I-88 (SN 016-0085)

1. REPAIR BRIDGE DECK.
2. REPAIR APPROACH SLABS.
3. RECONSTRUCT DECK JOINTS AT EACH ABUTMENT WITH PREFORMED JOINT STRIP SEAL.
4. CLEAN AND RESEAL RELIEF JOINTS AT THE ENDS OF APPROACH PAVEMENT CONNECTORS.
5. APPLY CONCRETE SEALER TO BRIDGE DECK, PARAPETS, APPROACH SLABS, ABUTMENT SEATS AND BACKWALLS.

I-290 OVER WOLF RD. (SN 016-0086)

1. REPAIR BRIDGE DECKS.
2. REPAIR APPROACH SLABS.
3. REPLACE PREFORMED JOINT SEALS WITH SILICONE JOINT SEALS.
4. CLEAN AND RESEAL RELIEF JOINTS AT THE ENDS OF APPROACH PAVEMENT CONNECTORS.
5. APPLY CONCRETE SEALER TO BRIDGE DECK, PARAPETS, APPROACH SLABS, ABUTMENT SEATS AND BACKWALLS.

FILE NAME =	DESIGNED - AJP	REVISED -	<b>benesch</b>	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>MAINTENANCE OF TRAFFIC STAGING</b>			F.A.I. SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
...\\ppln-ABC-C2-gemnotes-not.dgn	DRAWN - TWB	REVISED -						290 (3031.1, ETC., 3838)RS-5	COOK	298	95
USER NAME = tblank	CHECKED - RMT	REVISED -			CONTRACT NO. 60652						
PLOT DATE = 12/16/2009	DATE - 10/16/09	REVISED -			SCALE: N.T.S.	SHEET NO. 1 OF 96 SHEETS	STA. TO STA.	FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			

I-290 OVER HILLSIDE DR. (SN 016-0986)

1. REPAIR BRIDGE DECKS.
2. REPAIR APPROACH SLABS.
3. REPAIR ABUTMENTS WITH FORMED CONCRETE REPAIR.
4. REPLACE PREFORMED JOINT SEALS WITH SILICONE JOINT SEALS.
5. CLEAN AND RESEAL RELIEF JOINTS AT THE ENDS OF APPROACH PAVEMENT CONNECTORS.
6. APPLY CONCRETE SEALER TO BRIDGE DECK, PARAPETS, APPROACH SLABS, ABUTMENT SEATS AND BACKWALLS.

I-290 EB C-D RD. OVER WOLF RD. (SN 016-2758) AND I-290 EB C-D RD. OVER HILLSIDE DR. (SN 016-2759)

APPLY CONCRETE SEALER TO BRIDGE DECK, PARAPETS AND APPROACH SLABS.

I-290 OVER ADDISON CREEK (SN 016-0088)

1. REPAIR BRIDGE DECKS.
2. REPAIR APPROACH SLABS.
3. REPLACE PREFORMED JOINT SEALS WITH SILICONE JOINT SEALS.
4. CLEAN AND RESEAL RELIEF JOINTS AT THE ENDS OF APPROACH PAVEMENT CONNECTORS.
5. APPLY CONCRETE SEALER TO BRIDGE DECK, PARAPETS, APPROACH SLABS, ABUTMENT SEATS AND BACKWALLS.

I-290 OVER DES PLAINES RIVER (SN 016-0090)

1. REPAIR BRIDGE DECKS.
2. REPAIR APPROACH SLABS.
3. REPLACE PREFORMED JOINT SEALS WITH SILICONE JOINT SEALS.
4. CLEAN AND RESEAL RELIEF JOINTS AT THE ENDS OF APPROACH PAVEMENT CONNECTORS.
5. APPLY CONCRETE SEALER TO BRIDGE DECK, PARAPETS, APPROACH SLABS, ABUTMENT SEATS AND BACKWALLS.

**STAGE 3**

INSTALL TEMPORARY SIGNING, STRIPING AND OTHER TRAFFIC CONTROL DEVICES NECESSARY FOR THE STAGE 3 TRAFFIC CONFIGURATION, INCLUDING THE NECESSARY MODIFICATIONS TO THE EXISTING GROUND MOUNTED AND OVERHEAD SIGNS.

TRAFFIC

1. APPLY IDOT DISTRICT ONE STANDARD TC-25 CENTER LANE CLOSURE FOR THE CONSTRUCTION OF THE DES PLAINES RIVER BRIDGE REPAIRS. WEEKEND-ONLY CLOSURES WILL BE IMPLEMENTED FOR THE MIDDLE SECTION OF THE BRIDGE.
2. SEE MAINTENANCE OF TRAFFIC TYPICAL SECTIONS FOR PATCHING AND RESURFACING TRAFFIC CONTROL.
3. THE EXISTING PAVEMENT MARKING CONFIGURATION SHALL BE RESTORED BEFORE BEGINNING RESURFACING OPERATIONS.

CONSTRUCTION

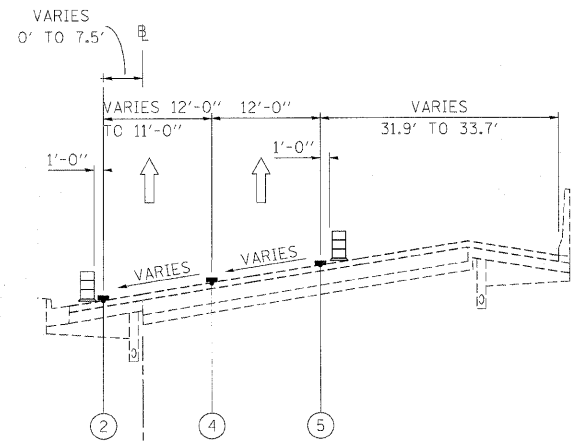
SEE MAINTENANCE OF TRAFFIC TYPICAL SECTIONS FOR PATCHING AND RESURFACING CONSTRUCTION ITEMS, INCLUDING THE ROSSEVELT ROAD FEEDER RAMPS. THE CONTRACTOR SHALL NOT HAVE MORE THAN 4 CONTINUOUS SURVEILLANCE LOOPS (APPROXIMATELY 2 MILES) NON-OPERATIONAL AT ANY GIVEN TIME.

I-290 OVER DES PLAINES RIVER (SN 016-0090)

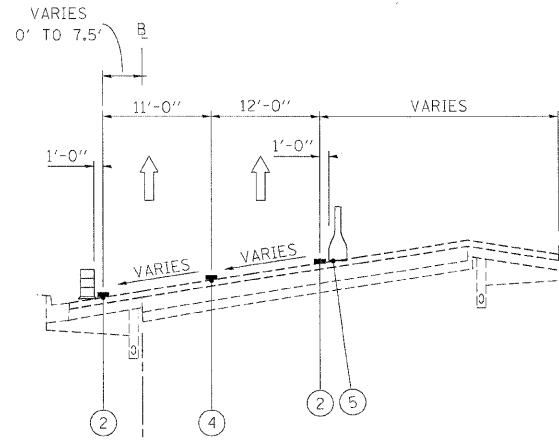
1. REPAIR BRIDGE DECKS.
2. REPAIR APPROACH SLABS.
3. REPLACE PREFORMED JOINT SEALS WITH SILICONE JOINT SEALS.
4. CLEAN AND RESEAL RELIEF JOINTS AT THE ENDS OF APPROACH PAVEMENT CONNECTORS.
5. APPLY CONCRETE SEALER TO BRIDGE DECK, PARAPETS, APPROACH SLABS, ABUTMENT SEATS AND BACKWALLS.
6. SEE MAINTENANCE OF TRAFFIC TYPICAL SECTIONS FOR PATCHING AND RESURFACING CONSTRUCTION ITEMS.

FILE NAME =	DESIGNED - AJP	REVISED -	<b>benesch</b>	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>MAINTENANCE OF TRAFFIC STAGING</b>			F.A.I. SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
...prplh_abc_c2_gennotes_mot_02.dgn	DRAWN - TMB	REVISED -			290 (3031.1, ETC., 3838RS-5	COOK	298	96			
USER NAME = tblank	CHECKED - RMT	REVISED -			CONTRACT NO. 60G52						
PLOT DATE = 11/13/2009	DATE - 10/16/09	REVISED -			SCALE: N.T.S.	SHEET NO. 2 OF 96 SHEETS	STA. _____ TO STA. _____	FED. ROAD DIST. NO. _____ ILLINOIS FED. AID PROJECT _____			



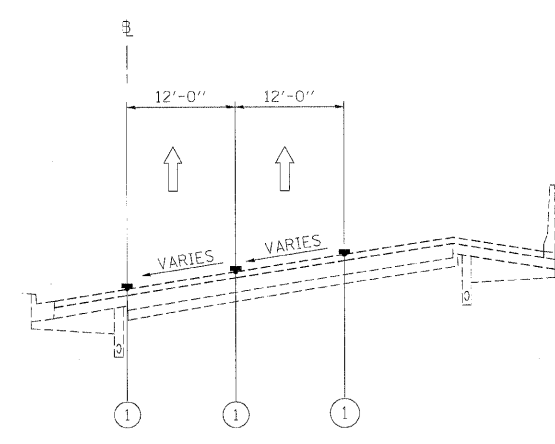


**EASTBOUND**  
**MAINTENANCE OF TRAFFIC**  
**TYPICAL SECTION**  
 STAGE 1  
 STA 484+51 TO STA 487+29

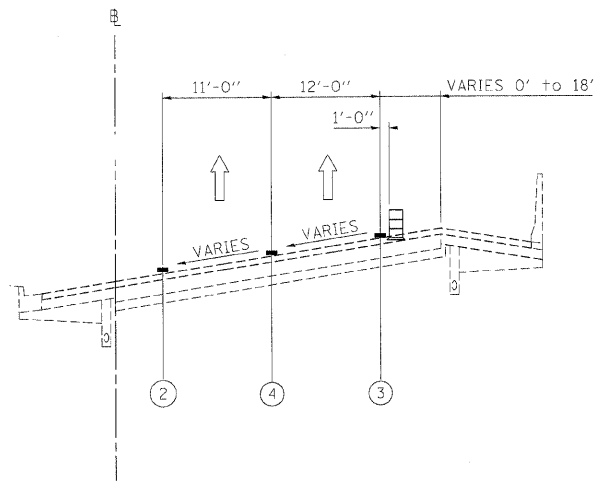


**EASTBOUND**  
**MAINTENANCE OF TRAFFIC**  
**TYPICAL SECTION**  
 STAGE 1  
 STA 487+29 TO STA 498+00

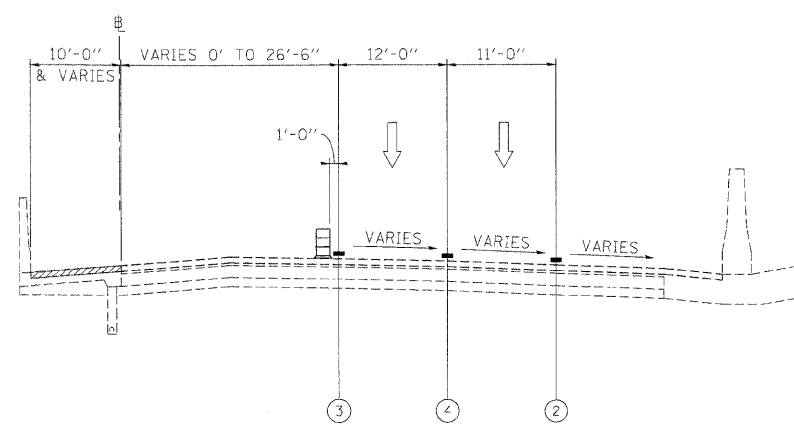
BRIDGE OMISSION STA 490+47 TO STA 494+41



**EASTBOUND**  
**MAINTENANCE OF TRAFFIC**  
**TYPICAL SECTION**  
 STAGE 1  
 STA 498+00 TO STA 501+88



**EASTBOUND**  
**MAINTENANCE OF TRAFFIC**  
**TYPICAL SECTION**  
 STAGE 1  
 STA 501+88 TO STA 507+22



**WESTBOUND**  
**MAINTENANCE OF TRAFFIC**  
**TYPICAL SECTION**  
 STAGE 1  
 STA 498+53 TO STA 506+83

**LEGEND**

- ① EXISTING PAVEMENT MARKING
- ② WET REFLECTIVE TEMPORARY TAPE, - TYPE III, 4 INCH (YELLOW)
- ③ WET REFLECTIVE TEMPORARY TAPE, - TYPE III, 4 INCH (WHITE)
- ④ WET REFLECTIVE TEMPORARY TAPE, - TYPE III, 5 INCH (WHITE)
- ⑤ TEMPORARY PAVEMENT MARKING - LINE 6" (YELLOW) (ON BARRIER)
- ⑥ TEMPORARY PAVEMENT MARKING - LINE 6" (WHITE) (ON BARRIER)
- ⑦ WET REFLECTIVE TEMPORARY TAPE - TYPE III, 8 INCH (WHITE)
- TEMPORARY CONCRETE BARRIER
- TYPE II BARRIER, DRUM, OR VERTICAL BARRICADE WITH STEADY BURN MONODIRECTIONAL LIGHT
- WORK ZONE

FILE NAME *	DESIGNED - AJP	REVISED -
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PLOT DATE = 11/13/2009	DATE - 10/16/09	REVISED -

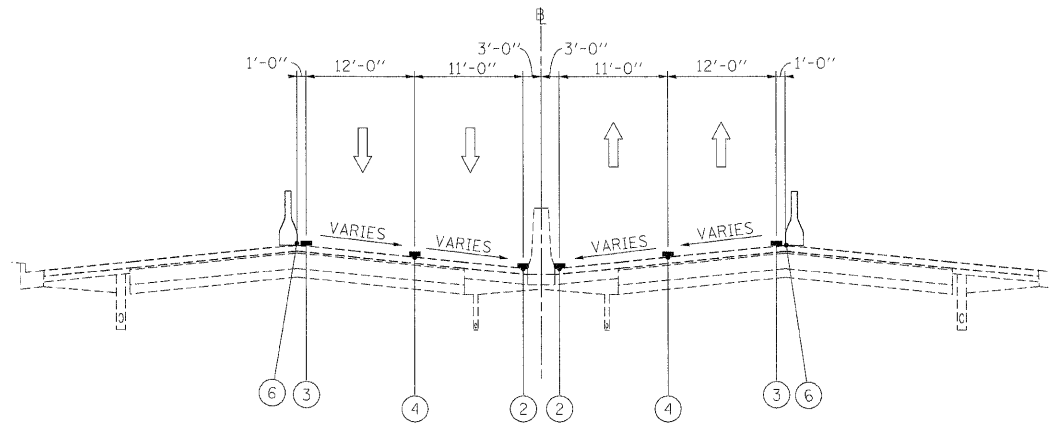
**benesch**

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

**MAINTENANCE OF TRAFFIC**  
**TYPICAL SECTION - STAGE 1**

SCALE: SHEET NO. 3 OF 96 SHEETS STA. TO STA.

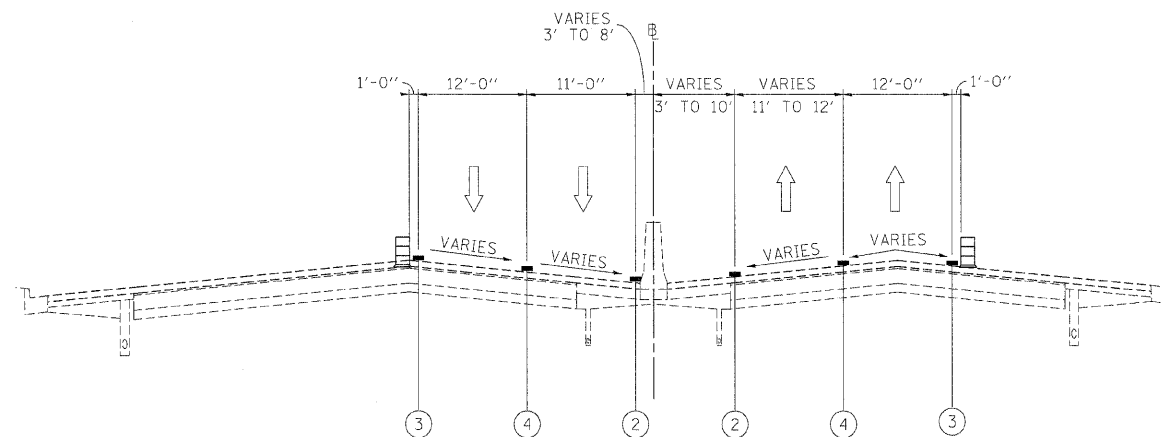
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	(3031.1, ETC., 3830RS-5	COOK	298	97
FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT			CONTRACT NO. 60G52	



**WESTBOUND** STA 506+83 TO STA 529+75  
**EASTBOUND** STA 507+22 TO STA 529+40

**I-290 MAINTENANCE OF TRAFFIC  
 TYPICAL SECTION  
 STAGE 1**




BRIDGE OMISSION  
 STA 506+97 TO STA 509+30  
 STA 524+99 TO STA 525+90



**WESTBOUND** STA 529+75 TO STA 532+20  
**EASTBOUND** STA 529+40 TO STA 533+00

**I-290 MAINTENANCE OF TRAFFIC  
 TYPICAL SECTION  
 STAGE 1**

**LEGEND**

- ① EXISTING PAVEMENT MARKING
- ② WET REFLECTIVE TEMPORARY TAPE, - TYPE III, 4 INCH (YELLOW)
- ③ WET REFLECTIVE TEMPORARY TAPE, - TYPE III, 4 INCH (WHITE)
- ④ WET REFLECTIVE TEMPORARY TAPE, - TYPE III, 5 INCH (WHITE)
- ⑤ TEMPORARY PAVEMENT MARKING - LINE 6" (YELLOW) (ON BARRIER)
- ⑥ TEMPORARY PAVEMENT MARKING - LINE 6" (WHITE) (ON BARRIER)
- ⑦ WET REFLECTIVE TEMPORARY TAPE - TYPE III, 8 INCH (WHITE)
-  TEMPORARY CONCRETE BARRIER
-  TYPE II BARRIER, DRUM, OR VERTICAL BARRICADE WITH STEADY BURN MONODIRECTIONAL LIGHT
-  WORK ZONE

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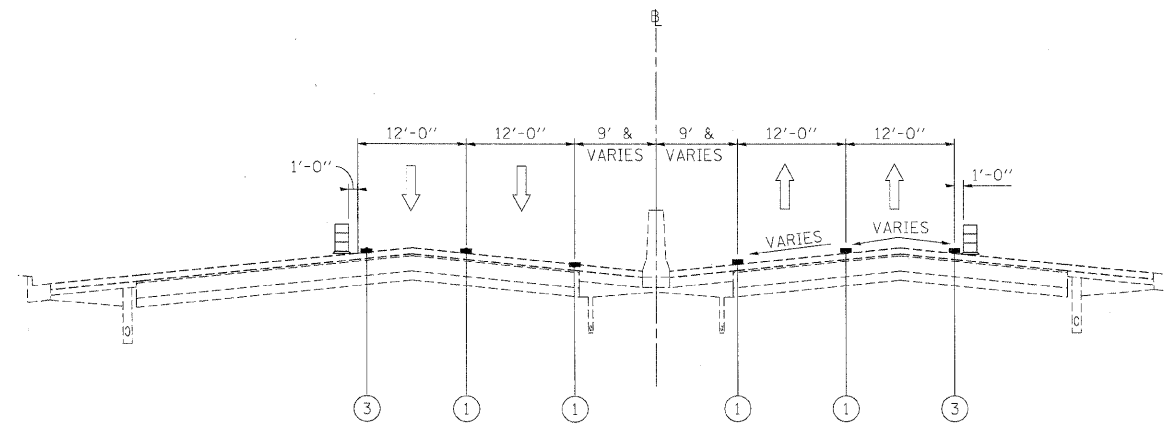
**benesch**

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**MAINTENANCE OF TRAFFIC  
 TYPICAL SECTION - STAGE 1**

SCALE: SHEET NO. 4 OF 96 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	(3031.1, ETC., 3838)RS-5	COOK	298	98
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 60652	






**WESTBOUND**  
STA 532+20 TO STA 588+95

**EASTBOUND**  
STA 533+00 TO STA 587+65

**I-290 MAINTENANCE OF TRAFFIC  
TYPICAL SECTION  
STAGE 1**

**LEGEND**

- ① EXISTING PAVEMENT MARKING
- ② WET REFLECTIVE TEMPORARY TAPE, - TYPE III, 4 INCH (YELLOW)
- ③ WET REFLECTIVE TEMPORARY TAPE, - TYPE III, 4 INCH (WHITE)
- ④ WET REFLECTIVE TEMPORARY TAPE, - TYPE III, 5 INCH (WHITE)
- ⑤ TEMPORARY PAVEMENT MARKING - LINE 6" (YELLOW) (ON BARRIER)
- ⑥ TEMPORARY PAVEMENT MARKING - LINE 6" (WHITE) (ON BARRIER)
- ⑦ WET REFLECTIVE TEMPORARY TAPE - TYPE III, 8 INCH (WHITE)
-  TEMPORARY CONCRETE BARRIER
-  TYPE II BARRIER, DRUM, OR VERTICAL BARRICADE WITH STEADY BURN MONODIRECTIONAL LIGHT
-  WORK ZONE

FILE NAME =	DESIGNED - AJP	REVISED -
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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**MAINTENANCE OF TRAFFIC  
TYPICAL SECTION - STAGE 1**

SCALE: SHEET NO. 5 OF 96 SHEETS STA. TO STA.

F.A.I. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	(3031.1, ETC., 3838)RS-5	COOK	298	99
CONTRACT NO. 60652			ILLINOIS FED. AID PROJECT	

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PLOT DATE = 12/16/2009	CHECKED - JJT	REVISED -
	DATE - 10/16/09	REVISED -

**benesch**

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**MAINTENANCE OF TRAFFIC  
 TYPICAL SECTION - STAGE 1**

SCALE:	SHEET NO. 6 OF 96 SHEETS	STA.	TO STA.
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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	(3031.1, ETC., 3838)RS-5	COOK	298	100
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 60652	