

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

SECTION	COUNTY	SHEETS	NO.
0305-302K-1-5	COOK	23	1
ILLINOIS		CONTRACT NO. 60P20	
• FAU 2959 & FAU 2960			

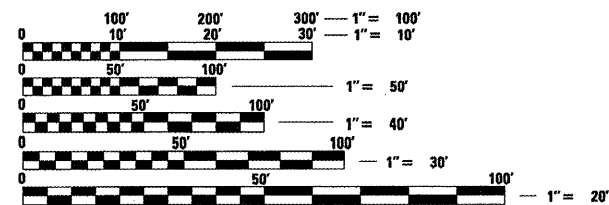
FOR INDEX OF SHEETS, SEE SHEET NO. 2

TRAFFIC DATA

EXISTING ADT
WFR = 9,700 TO 18,000
EFR = 7,400 TO 17,100
SPEED LIMIT = 45 MPH

THE IMPROVEMENT IS LOCATED IN
THE VILLAGE OF SCHAUMBURG

**PROPOSED
HIGHWAY PLANS**
FAU 2959 & FAU 2960 (I-290 EAST & WEST FRONTAGE ROADS)
SECTION 0305-302K-1-5
IL 72 (HIGGINS ROAD) TO IL 58 (GOLF ROAD)
SKIDPROOFING, CURVE CORRECTION AND SIGNING
PROJECT: HSIP-0005(879)
COOK COUNTY
C-91-485-11

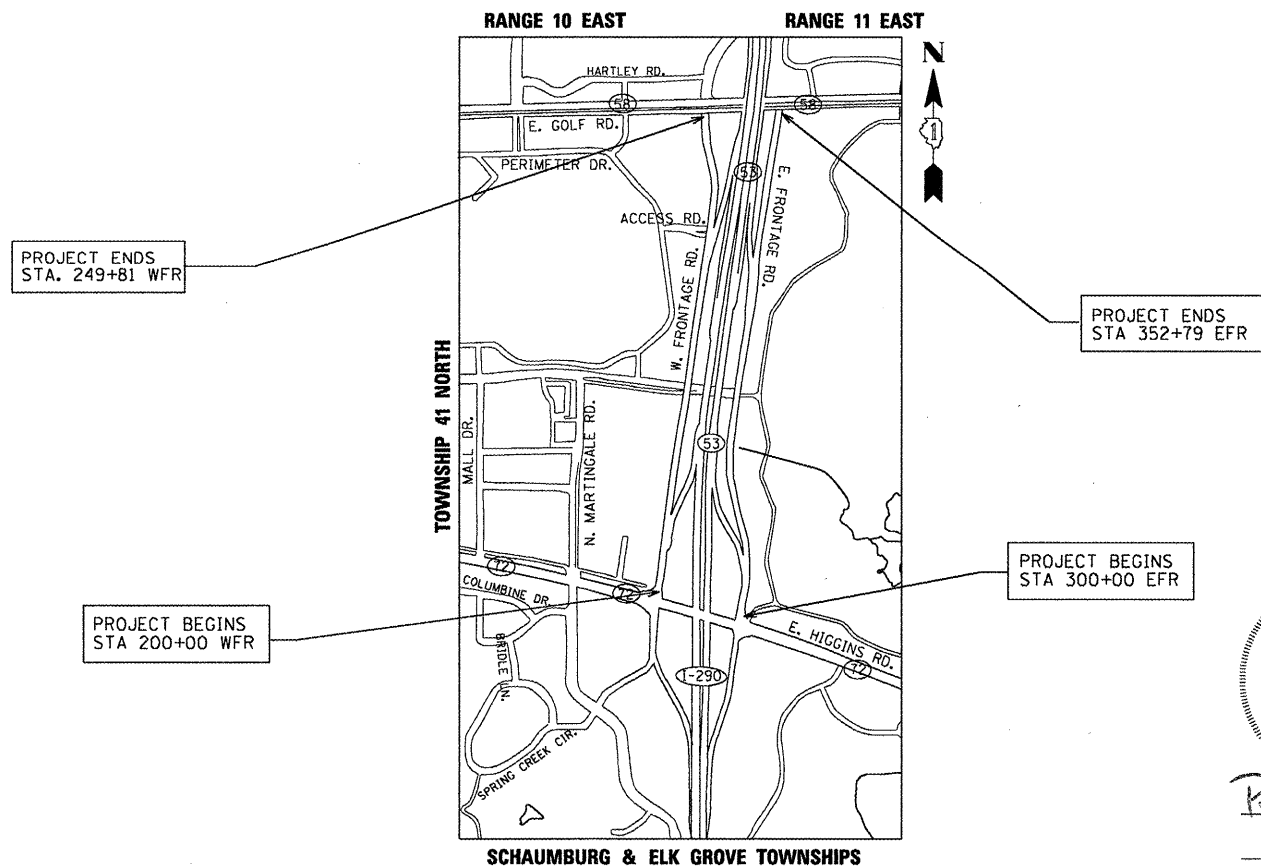


FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

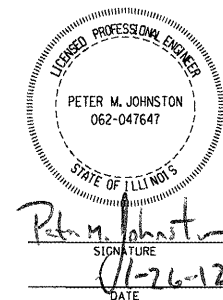
J.U.L.I.E.
JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION
1-800-892-0123
OR 811

PROJECT ENGINEER: PETER JOHNSTON (GRAEF) 773-399-0112
PROJECT MANAGER: KEN ENG (IDOT) 847-705-4247

CONTRACT NO. 60P20



SCHAUMBURG & ELK GROVE TOWNSHIPS
GROSS LENGTH & NET LENGTH WFR = 4,981 FT. = 0.94 MILES
GROSS LENGTH & NET LENGTH EFR = 5,279 FT. = 1.00 MILES



STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

SUBMITTED JANUARY 30, 2012

Diana M. O'Keefe
DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER

March 23, 2012

John D. Baranzelli, P.E.
acting ENGINEER OF DESIGN AND ENVIRONMENT

March 23, 2012

William B. Fley
acting DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS

GRAEF 8501 W. Higgins Road, Suite 280
Chicago, Illinois 60631
(773) 399-0112

INDEX OF SHEETS

HIGHWAY STANDARDS

GENERAL NOTES

SHEET NO.	DESCRIPTION
1	COVER SHEET
2	INDEX, HIGHWAY STANDARDS AND GENERAL NOTES
3	SUMMARY OF QUANTITIES
4	TYPICAL SECTIONS
5	SCHEDULE OF QUANTITIES
6	ALIGNMENT, TIES AND BENCHMARK
7-8	PLAN AND PROFILE
9-12	SIGNING AND PAVEMENT MARKING
13	EROSION CONTROL AND LANDSCAPING
14-17	CROSS SECTIONS
18	PAVEMENT PATCHING FOR HMA SURFACED PAVEMENT (BD22)
19	BUTT JOINTS AND HMA TAPER (BD32)
20	TRAFFIC CONTROL AND PROTECTION FOR SIDEROADS, INTERSECTIONS AND DRIVEWAYS (TC10)
21	RAISED REFLECTIVE PAVEMENT MARKERS (SNOW PLOW RESISTANT) (TC11)
22	DISTRICT ONE TYPICAL PAVEMENT MARKINGS (TC13)
23	ARTERIAL ROAD INFORMATION SIGN (TC22)

STD. NO.	TITLE
000001 -06	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
280001 -06	TEMPORARY EROSION CONTROL SYSTEMS
442201 -03	CLASS C AND D PATCHES
606001 -04	CONCRETE CURB TYPE B AND COMBINATION CURB AND GUTTER
701101 -02	OFF-ROAD OPERATIONS, MULTILANE, 15' TO 24" FROM PAVEMENT EDGE
701601 -07	URBAN LANE CLOSURE, MULTILANE, 1W OR 2W WITH NONTRAVERSABLE MEDIAN
701701 -08	URBAN LANE CLOSURE, MULTILANE, INTERSECTION
701901 -02	TRAFFIC CONTROL DEVICES
720001 -01	SIGN PANEL MOUNTING DETAILS
720006 -03	SIGN PANEL ERECTION DETAILS
728001 -01	TELESCOPING STEEL SIGN SUPPORT
731001 -01	BASE FOR TELESCOPING STEEL SIGN SUPPORT
780001 -03	TYPICAL PAVEMENT MARKINGS

- BEFORE STARTING ANY EXCAVATION, THE CONTRACTOR SHALL CALL "J.U.L.I.E." AT 800-892-0123 FOR FIELD LOCATIONS OF BURIED ELECTRIC, TELEPHONE AND GAS FACILITIES. (48 HOUR NOTIFICATION IS REQUIRED).
- THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES.
- THE CONTRACTOR WILL NOT BE ALLOWED TO SET UP A YARD OR FIELD OFFICE ON STATE PROPERTY WITHOUT WRITTEN PERMISSION FROM THE DEPARTMENT.
- WHEN 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.
- WHEN MILLED PAVEMENT IS OPEN TO TRAFFIC THE MAXIMUM GRADE DIFFERENTIAL BETWEEN PASSES OF THE MILLING MACHINE SHALL NOT EXCEED 1 1/2 INCHES (40 MM) WHERE THE SPEED LIMIT IS 45 MPH (80 KM/H) OR LESS AND 1 INCH (25 MM) WHERE THE SPEED LIMIT IS GREATER THAN 45 MPH (80 KM/H). WITH WRITTEN APPROVAL FROM THE ENGINEER, A MAXIMUM GRADE DIFFERENTIAL OF 3 INCHES (75 MM) MAY BE ALLOWED IF THE EDGE OF THE MILLING IS SLOPED A MINIMUM 1:3 (V:H).
- BUTT JOINTS WILL BE INSTALLED AT THE ENDS OF ALL RESURFACING (WHERE RESURFACING MEETS EXISTING PAVEMENT), IN ACCORDANCE WITH THE "BUTT JOINT AND HMA TAPER DETAILS" SHEET INCLUDED IN THE PLANS, UNLESS OTHERWISE SPECIFIED.
- THE CONTRACTOR SHALL CONTACT THE TRAFFIC CONTROL SUPERVISOR AT (847) 705-4470 A MINIMUM 72 HOURS IN ADVANCE OF BEGINNING WORK.
- THE RESIDENT ENGINEER SHALL CONTACT WALTER CZARNY, AREA TRAFFIC FIELD ENGINEER, AT 847-715-8419 AT LEAST (2) WEEKS PRIOR TO PLACING PERMANENT PAVEMENT MARKINGS.
- BEFORE BEGINNING ANY WORK, THE CONTRACTOR SHALL RETAIN AND RECORD FOR FUTURE REFERENCE, ALL EXISTING PAVEMENT MARKING LINES (AND RAISED REFLECTIVE PAVEMENT MARKERS) IN ORDER THAT THESE LOCATIONS CAN BE REESTABLISHED FOR STRIPING, EXACT LOCATIONS OF ALL PAVEMENT MARKINGS SHALL BE AS DIRECTED BY THE ENGINEER.
- FOR WORK OUTSIDE THE LIMITS OF BRIDGE APPROACH PAVEMENT, ALL REFERENCES IN THE HIGHWAY STANDARDS AND STANDARD SPECIFICATIONS FOR REINFORCEMENT, DOWEL BARS AND TIE BARS IN PAVEMENT, SHOULDERS, CURB, GUTTER, COMBINATION CURB AND GUTTER AND MEDIAN, AND CHAIR SUPPORTS FOR CRC PAVEMENT, SHALL BE EPOXY COATED, UNLESS NOTED ON THE PLAN.
- ALL PAVEMENT PATCHING LOCATIONS WILL BE DETERMINED IN THE FIELD BY THE ENGINEER.
- THE CONTRACTOR SHALL BE REQUIRED TO PROVIDE ACCESS TO ABUTTING PROPERTY AT ALL TIMES DURING THE CONSTRUCTION OF THIS PROJECT.
- IT SHALL BE THE CONTACTOR'S RESPONSIBILITY TO VERIFY ALL DIMENSIONS AND CONDITIONS EXISTING IN THE FIELD PRIOR TO CONSTRUCTION AND ORDERING OF MATERIALS.
- WEST FRONTAGE ROAD WILL BE CLOSED DURING THE NIGHT TIME HOURS TO COMPLETE THE HOT-MIX ASPHALT WORK.

FILE NAME *	USER NAME = .USER.	DESIGNED - EF	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	I-290 E & W FRONTAGE ROADS INDEX OF SHEETS, HIGHWAY STANDARDS, AND GENERAL NOTES	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
#FILE#		DRAWN - EF	REVISED -			0305-302K-1-5	COOK	23	2	
	PLOT SCALE = 100.0000' / IN.	CHECKED - RS	REVISED -			2959/2960	CONTRACT NO. 60P20			
	PLOT DATE = 1/31/2012	DATE - 01/31/2012	REVISED -			ILLINOIS FED. AID PROJECT				
				SCALE: NTS	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.			

SUMMARY OF QUANTITIES

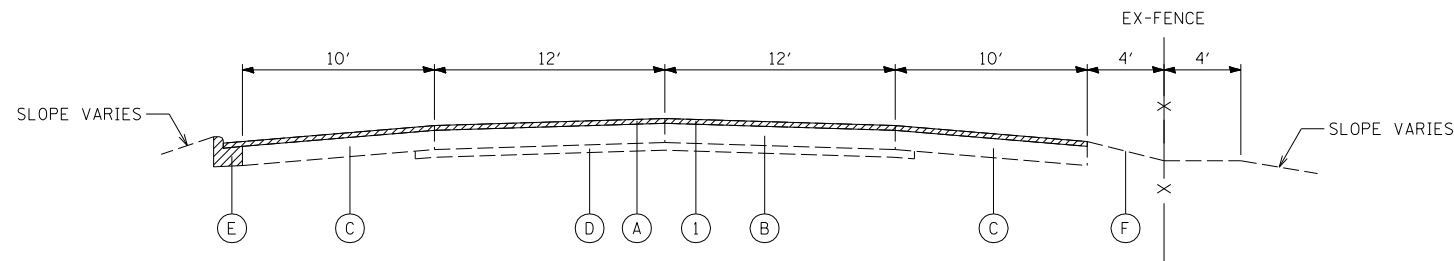
90% FED.
URBAN 10% STATE

PAY ITEM NUMBER	DESCRIPTION	UNIT	TOTAL QUANTITY	0021 SAFETY
20101000	TEMPORARY FENCE	FOOT	1,073	1,073
20200100	EARTH EXCAVATION	CU YD	0	0
20201200	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	CU YD	172	172
20400800	FURNISHED EXCAVATION	CU YD	233	233
21101615	TOPSOIL FURNISH AND PLACE, 4"	SQ YD	1,145	1,145
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	14	14
25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	14	14
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	14	14
25200110	SODDING, SALT TOLERANT	SQ YD	1,145	1,145
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	71	71
28000400	PERIMETER EROSION BARRIER	FOOT	1,060	1,060
40600200	BITUMINOUS MATERIALS (PRIME COAT)	TON	5	5
40600300	AGGREGATE (PRIME COAT)	TON	23	23
40600400	MIXTURE FOR CRACKS, JOINTS, AND FLANGEWAYS	TON	9	9
40600635	LEVELING BINDER (MACHINE METHOD), N70	TON	97	97
40600895	CONSTRUCTING TEST STRIP	EACH	2	2
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	98	98
40601005	HOT-MIX ASPHALT REPLACEMENT OVER PATCHES	TON	17	17
40603085	HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70	TON	1,422	1,422
40603595	POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "F", N90	TON	556	556
42001300	PROTECTIVE COAT	SQ YD	347	347
44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	1,043	1,043
44002210	HOT-MIX ASPHALT REMOVAL OVER PATCHES, 2 1/2"	SQ YD	122	122
44201765	CLASS D PATCHES, TYPE II, 10 INCH	SQ YD	107	107
44300200	STRIP REFLECTIVE CRACK CONTROL TREATMENT	FOOT	3,393	3,393
60250200	CATCH BASINS TO BE ADJUSTED	EACH	3	3
60255500	MANHOLES TO BE ADJUSTED	EACH	2	2
60260100	INLETS TO BE ADJUSTED	EACH	1	1
60605000	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24	FOOT	1,043	1,043
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	6	6
67100100	MOBILIZATION	L SUM	1	1
70102630	TRAFFIC CONTROL AND PROTECTION, STANDARD 701601	L SUM	1	1
70102635	TRAFFIC CONTROL AND PROTECTION, STANDARD 701701	L SUM	1	1
70300100	SHORT-TERM PAVEMENT MARKING	FOOT	486	486
70301000	WORK ZONE PAVEMENT MARKING REMOVAL	SQ FT	1,619	1,619
* 72000100	SIGN PANEL - TYPE 1	SQ FT	587	587
* 72000200	SIGN PANEL - TYPE 2	SQ FT	50	50
* 72400100	REMOVE SIGN PANEL ASSEMBLY - TYPE A	EACH	59	59
* 72400310	REMOVE SIGN PANEL - TYPE 1	SQ FT	44	44
* 72400320	REMOVE SIGN PANEL - TYPE 2	SQ FT	10	10
* 72800100	TELESCOPING STEEL SIGN SUPPORT	FOOT	629	629
* 73000100	WOOD SIGN SUPPORT	FOOT	302	302
* 78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	2,429	2,429
* 78000600	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	392	392
* 78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	28	28
78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	28	28
Z0013798	CONSTRUCTION LAYOUT	L SUM	1	1
Z0030850	TEMPORARY INFORMATION SIGNING	SQ FT	154	154
X4401198	HOT-MIX ASPHALT SURFACE REMOVAL, VARIABLE DEPTH	SQ YD	5,680	5,680
X6640304	CHAIN LINK FENCE TO BE REMOVED AND RE-ERECTED	FOOT	1,073	1,073
X7030030	WET REFLECTIVE TEMPORARY TAPE TYPE III, 4 INCH	FOOT	4,858	4,858

* DENOTES SPECIALTY ITEM

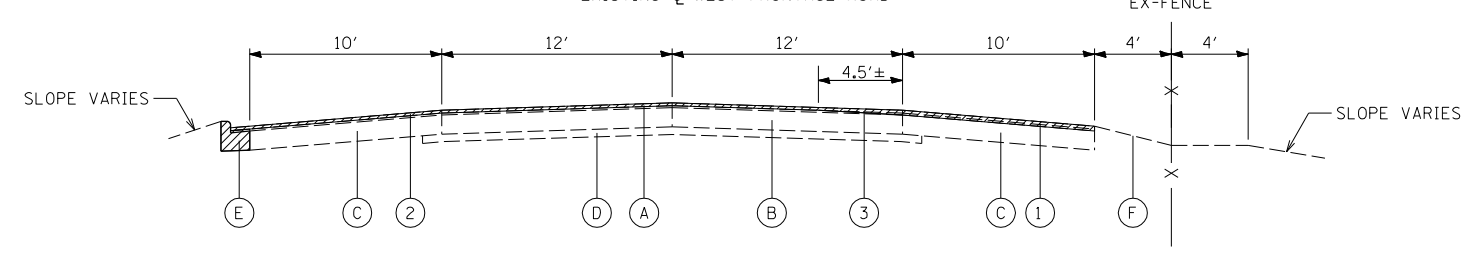
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	PLOT SCALE = 100.0000 / IN.	DRAWN - EF	REVISED -		SCALE: NTS	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.	0305-302K-1-5	COOK	23	3	
	PLOT DATE = 1/31/2012	CHECKED - RS	REVISED -						2959/2960				CONTRACT NO. 60P20
		DATE - 01/31/2012	REVISED -										ILLINOIS FED. AID PROJECT

EXISTING CL WEST FRONTAGE ROAD



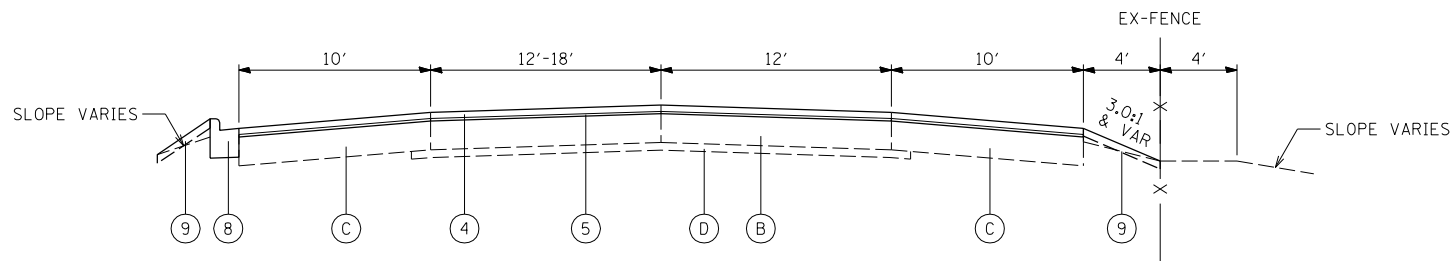
EXISTING TYPICAL SECTION
STA. 238+00 TO STA. 239+62
STA. 248+14 TO STA. 249+31

EXISTING CL WEST FRONTAGE ROAD



EXISTING TYPICAL SECTION
STA. 244+14 TO STA. 248+14

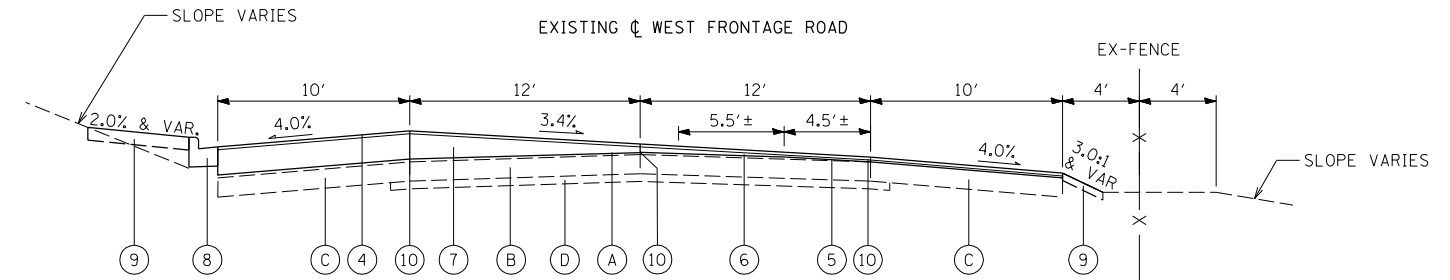
EXISTING CL WEST FRONTAGE ROAD



PROPOSED TYPICAL SECTION
STA. 238+00 TO STA. 239+62
STA. 248+14 TO STA. 249+31

PROPOSED
SUPEREVATION TRANSITION
NORMAL CROWN AT STA. 239+62 TO
4.0% AT STA. 240+84

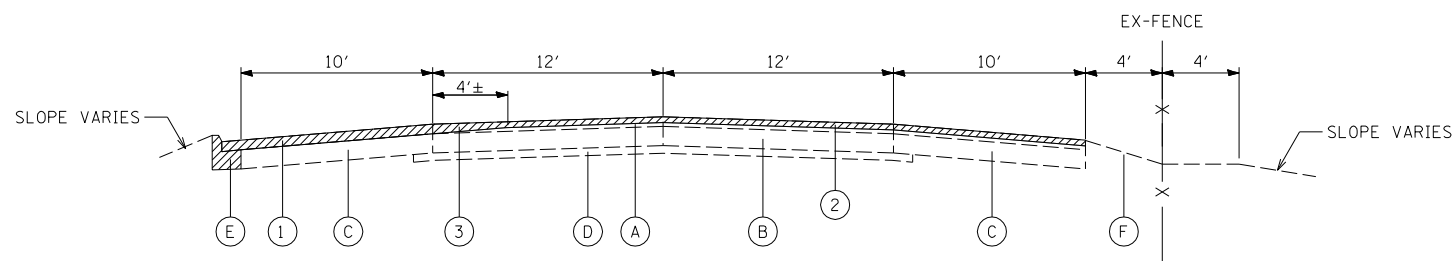
EXISTING CL WEST FRONTAGE ROAD



PROPOSED TYPICAL SECTION
STA. 245+36 TO STA. 247+06

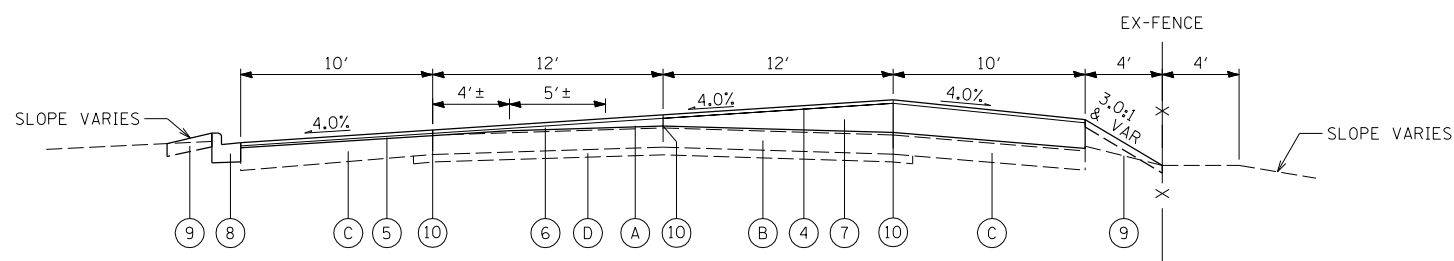
PROPOSED
SUPEREVATION TRANSITION
3.4% AT STA. 247+06 TO
NORMAL CROWN AT STA. 248+14

EXISTING CL WEST FRONTAGE ROAD



EXISTING TYPICAL SECTION
STA. 239+62 TO 244+14

EXISTING CL WEST FRONTAGE ROAD



PROPOSED TYPICAL SECTION
STA. 240+84 TO 242+71

PROPOSED
SUPEREVATION TRANSITION
4.0% AT STA. 242+71 TO
3.4% AT STA. 245+36

EXISTING CONDITIONS:

- (A) HOT-MIX ASPHALT SURFACE COURSE, 2.5"
- (B) PCC BASE COURSE, 10"
- (C) STABILIZED SHOULDER, 10"
- (D) STABILIZED SUB-BASE, 4"
- (E) COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24
- (F) EXISTING GROUND
- ▨ ITEM TO BE REMOVED

PROPOSED IMPROVEMENTS:

- (1) HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/2" **
 - (2) HOT-MIX ASPHALT SURFACE REMOVAL, 1 1/2" **
 - (3) HOT-MIX ASPHALT SURFACE REMOVAL, VARIABLE DEPTH (1 1/2" to 2 1/2")
 - (4) POLYMERIZED HMA SURFACE COURSE, MIX "F", N90, 1 3/4"
 - (5) LEVELING BINDER (MACHINE METHOD), N70, 3/4"
 - (6) LEVELING BINDER (MACHINE METHOD), N70, 3/4" TO 2 1/4"
 - (7) HOT-MIX ASPHALT BINDER COURSE, IL 19.0mm, N70 > 2 1/4" MIN
 - (8) COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24
 - (9) TOPSOIL FURNISH AND PLACE, 4" AND SODDING, SALT TOLERANT
 - (10) STRIP REFLECTIVE CRACK CONTROL TREATMENT
- ** PAID AS HMA SURFACE REMOVAL, VARIABLE DEPTH

* CONTRACTOR SHALL PATCH FIRST THAN MILL

HOT-MIX ASPHALT MIXTURE REQUIREMENTS	
MIXTURE TYPE	AIR VOIDS @ Ndes
POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "F", N90 (IL 9.5mm) (1 3/4")	4% @ 90 GYR
HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70 (≥ 2 1/4") (4" MAXIMUM LIFTS)	4% @ 70 GYR
LEVELING BINDER (MACHINE METHOD), N70 (IL 9.5mm) (3/4"-2 1/4")	4% @ 70 GYR
CLASS D PATCHES, 9" (HMA BINDER IL 19mm) (IN 3 LIFTS)	4% @ 70 GYR
HOT-MIX ASPHALT REPLACEMENT OVER PATCHES (HMA BINDER IL 19 mm) (2 1/2")	4% @ 70 GYR

THE UNIT WEIGHT USED TO CALCULATE ALL HOT-MIX ASPHALT SURFACE MIXTURE A 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 =	USER NAME = .USER.	DESIGNED - EF	REVISED -
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	PLOT SCALE = 100.0000' / IN.	CHECKED - RS	REVISED -
	PLOT DATE = 1/31/2012	DATE - 01/31/2012	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

I-290 E & W FRONTAGE ROADS
TYPICAL SECTIONS

SCALE: NTS SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
• 2959/2960	0305-302K-1-5	COOK	23	4
			CONTRACT NO. 60P20	
ILLINOIS FED. AID PROJECT				

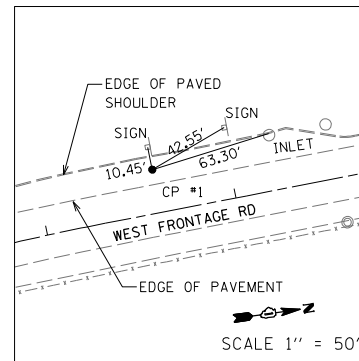
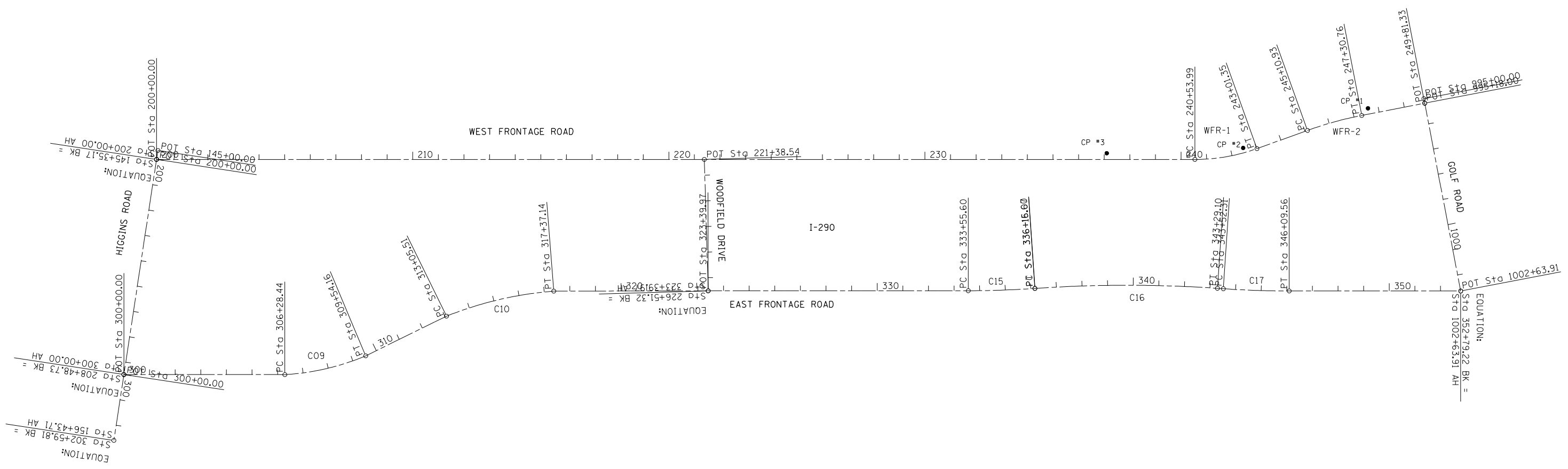
SCHEDULE OF SIGN QUANTITIES WEST FRONTAGE ROAD

STATION	OFFSET		SIGN PANEL ASSEMBLY REMOVAL (EACH)	REMOVE SIGN PANEL - TYPE 1 (SQ.FT.)	REMOVE SIGN PANEL - TYPE 2 (SQ.FT.)	Sign	SIGN ID #	SIZE (inches)	SIGN PANEL TYPE 1 (SQ.FT.)	SIGN PANEL TYPE 2 (SQ.FT.)	TELESCOPING STEEL SIGN SUPPORT (FT.)	WOOD POST (FT.)
246+32	32.21	LT	1			SPEED LIMIT 45	R2-1	30x36	7.50		15	
244+96	31.67	LT	1			ROAD CURVES RIGHT AHEAD 40 M.P.H.	W1-2 W13-1	36x36 24x24	9.00 4.00		18.25	
246+32	26.33	RT	1			SPEED LIMIT 45	R2-1	30x36	7.50			15
244+93	26.33	RT	1			ROAD CURVES RIGHT AHEAD 40 M.P.H.	W1-2 W13-1	36x36 24x24	9.00 4.00		18.25	
243+11	27.05	RT	1			ONE WAY (RIGHT)	R6-2R	30x36	7.50		15	
242+96	26.39	RT	1			CHEVRON	W1-8R	18x24	3.00		14	
241+78	26.62	RT	1			CHEVRON	W1-8R	18x24	3.00		14	
240+58	26.10	RT	1			CHEVRON	W1-8R	18x24	3.00		14	
237+94	29.40	RT	1			WRONG WAY	R5-1a	36x24	6.00			14.5
236+77	25.31	RT	1			MERGE ONE WAY (RIGHT)	W4-1 R6-2R	36x36 30x36	9.00 7.50			19.25
234+82	45.75	RT	1			LEFT LANE MUST TURN LEFT	R3-7	36x36	9.00		0	15
231+57	27.72	LT	1			DO NOT DRIVE ON SHOULDER	R4-17	24x30	5.00		14.5	
229+20	36.94	LT	1			DO NOT DRIVE ON SHOULDER	R4-17	24x30	5.00		14.5	
227+70	39.59	RT	1			LEFT LANE MUST TURN LEFT	R3-7	36x36	9.00		0	15
226+95	41.15	LT	1			BICYCLE AHEAD	W11-1 W16-9P	36x36 24x12	9.00 2.00		17.25	
226+31	41.14	RT				ADVANCE INTERSECTION LANE CONTROL	R3-8(MOD)	30x30	6.25		14.5	
226+31	47.72	LT				ADVANCE INTERSECTION LANE CONTROL	R3-8(MOD)	48x30		10	14.5	
224+68	40.16	RT	1			BICYCLE AHEAD	W11-1 W16-9P	36x36 24x12	9.00 2.00		17.25	
223+30	39.51	RT	1			ADVANCE INTERSECTION LANE CONTROL WRONG WAY	R3-8(MOD) R5-1a	30x30 36x24	6.25 6.00			14.5
221+92	37.06	RT	1			ADVANCE INTERSECTION LANE CONTROL DO NOT ENTER	R3-8(MOD) R5-1	30x30 30x30	6.25 6.25			15
223+25	50.05	LT	1			ONLY (RIGHT TURN) WRONG WAY	R3-5 R5-1a	30x36 36x24	7.50 6.00			15
224+00	52.85	LT	1			WRONG WAY	R5-1a	36x24				
220+00	63.00	LT				ONLY (RIGHT TURN) DO NOT ENTER	R3-5 R5-1	30x36 30x30	7.50 6.25		15	
219+44	32.58	LT	1			RIGHT TURN LANE	R3-1100	24x24	4.00		14	
218+09	47.57	LT	1			SPEED LIMIT 45	R2-1	30x36	7.50		15	
218+15	28.17	RT	1			SPEED LIMIT 45	R2-1	30x36	7.50		15	
217+36	43.08	LT	1			ONLY (RIGHT TURN)	R3-5	30x36	7.50		15	
216+52	40.42	LT	1			ONE WAY (RIGHT)	R6-2R	30x36	7.50		15	
216+22	56.03	LT	1			STOP	R1-1	36x36	9.00		15	
215+57	43.17	LT	1			RIGHT TURN LANE	R3-1100	24x24	4.00		14	
213+82	43.30	LT	1			ONLY (RIGHT TURN)	R3-5	30x36	7.50		15	
212+69	34.58	LT	1			ONE WAY (RIGHT)	R6-2R	30x36	7.50		15	
212+46	47.12	LT	1			STOP	R1-1	36x36	9.00		15	
208+86	25.09	RT	1			ADDED LANE	W4-3	36x36	9.00		16.25	
206+87	47.66	RT	1			LEFT LANE MUST TURN LEFT	R3-7	36x36	9.00		15	
206+56	30.22	LT	1			RIGHT LANE MUST TURN RIGHT	R3-7	36x36	9.00		15	
204+89	29.88	LT	1			RIGHT LANE MUST TURN RIGHT	R3-7	36x36	9.00		15	
204+61	42.75	RT	1			LEFT LANE MUST TURN LEFT	R3-7	36x36	9.00			15
206+04	45.27	RT	1			LEFT LANE MUST TURN LEFT	R3-7	36x36	9.00			15
203+02	51.50	RT	1			ADVANCE INTERSECTION LANE CONTROL WRONG WAY	R3-8(MOD) R5-1a	30x30 36x24	6.25 6.00			14.5

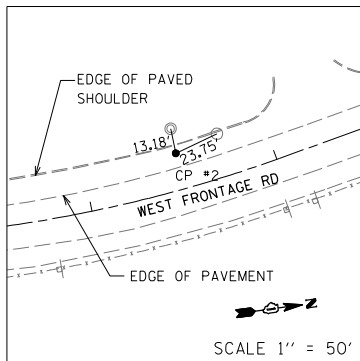
SCHEDULE OF SIGN QUANTITIES WEST FRONTAGE ROAD

STATION	OFFSET		SIGN PANEL ASSEMBLY REMOVAL (EACH)	REMOVE SIGN PANEL - TYPE 1 (SQ.FT.)	REMOVE SIGN PANEL - TYPE 2 (SQ.FT.)	Sign	SIGN ID #	SIZE (inches)	SIGN PANEL TYPE 1 (SQ.FT.)	SIGN PANEL TYPE 2 (SQ.FT.)	TELESCOPING STEEL SIGN SUPPORT (FT.)	WOOD POST (FT.)
201+41	49.93	RT	1			ADVANCE INTERSECTION LANE CONTROL DO NOT ENTER	R3-8(MOD) R5-1	30x30 30x30	6.25 6.25			14.5
200+59	50.36	RT		4		NO LEFT TURN (MOVEMENT PROHIBITION) NO RIGHT TURN (MOVEMENT PROHIBITION)	R3-2 R3-1	24x24 24x24	4.00 4.00			
201+46	34.27	LT	1			DO NOT ENTER ONLY (RIGHT TURN)	R5-1 R3-5	36x36 30x36	9.00 7.50			15
203+00	35.39	LT	1			WRONG WAY ONLY (RIGHT TURN)	R5-1a R3-5	36x24 30x36	6.00 7.50			15
300+58	32.98	RT	1			NO TURN ON RED WHEN PEDESTRIANS ARE PRESENT	R10-11b R10-1101p	36x36 24x12	9.00 2.00		16	
302+33	25.83	LT	1			SPEED LIMIT 45	R2-1	30x36	7.50			15
302+33	40.91	RT	1			SPEED LIMIT 45	R2-1	30x36	7.50		15	
303+92	37.53	RT	1			DO NOT DRIVE ON SHOULDER	R4-17	24x30	5.00			14.5
303+46	26.28	LT	1			DO NOT DRIVE ON SHOULDER	R4-17	24x30	5.00		14.5	
315+88	32.06	RT	1			ADVANCE TRAFFIC CONTROL WOODFIELD RD	W3-2 W16-8P	30x30 VARx9	6.25 1.50			16
319+11	25.57	RT	1			ADVANCE INTERSECTION LANE CONTROL	R3-8(MOD)	36x30	7.50			14.5
319+11	25.34	LT	1			ADVANCE INTERSECTION LANE CONTROL BICYCLE	R3-8(MOD) W11-1	36x30 36x36	7.50 9.00			14.5
320+69	25.96	RT	1			AHEAD WRONG WAY	W16-9P R5-1a	24x12 36x24	2.00 6.00		17.25	
320+73	24.74	LT	1			BICYCLE AHEAD WRONG WAY	W11-1 W16-9P R5-1a	36x36 24x12 36x24	9.00 2.00 6.00		17.25	
322+86	24.47	LT	1			BICYCLE DOWNWARD DIAGONAL ARROW DO NOT ENTER	W11-1 W16-7P R5-1	36x36 24x12 30x30	9.00 2.00 6.25		17.25	
322+87	25.48	RT	1			BICYCLE DOWNWARD DIAGONAL ARROW DO NOT ENTER	W11-1 W16-7P R5-1	36x36 24x12 30x30	9.00 2.00 6.25		17.25	
323+43	23.91	RT		3		ONE WAY (LEFT)	R6-1	36x12	3.00			
323+43	23.91	RT		8		ONE-DIRECTION LARGE ARROW	W1-6	48x24	8.00			
323+02	22.15	LT		4		NO RIGHT TURN (MOVEMENT PROHIBITION)	R3-1	24x24	4.00			
330+09	25.89	RT	1			SPEED LIMIT 45	R2-1	30x36	7.50		15	
338+07	24.79	LT	1			ONE WAY (RIGHT)	R6-2R	30x36	7.50		15	
341+13	23.69	LT	1			SPEED LIMIT 45	R2-1	30x36	7.50		15	
341+11	29.07	RT	1			SPEED LIMIT 45	R2-1	30x36	7.50		15	
350+56	39.15	RT	1			ADVANCE INTERSECTION LANE CONTROL WRONG WAY	R3-8(MOD) R5-1a	48x30 36x24		10 6.00	14.5	
352+22	00+43	RT			10	ADVANCE INTERSECTION LANE CONTROL NO TURN ON RED (REMOVE) EXCEPT RIGHT LANE (REMOVE) NO TURN ON RED EXCEPT FROM RIGHT LANE	R3-8(MOD) R10-11b	48x30 36x36 24x18		10		
350+55	23.99	LT	1			DO NOT ENTER ADVANCE INTERSECTION LANE CONTROL WRONG WAY	R5-1 R3-8(MOD) R5-1a	36x36 48x30 36x24	9.00		10	14.5
352+12	18.83	LT	1			ADVANCE INTERSECTION LANE CONTROL DO NOT ENTER	R3-8(MOD) R5-1	48x30 36x36		10 9.00	14.5	

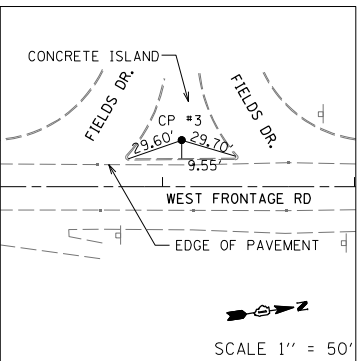
CURVE C09 PI STA. = 307+92.90 Δ = 19° 32' 36" (LT) D = 6° 00' 00" R = 954.93' T = 164.46' L = 325.72' E = 363.34' e = ----- T.R. = ----- S.E. RUN = ----- P.C. STA. = 306+28.44 P.T. STA. = 309+54.16	CURVE C10 PI STA. = 315+22.97 Δ = 17° 15' 55" (RT) D = 4° 00' 00" R = 1,432.40' T = 217.47' L = 431.64' E = 16.41' e = ----- T.R. = ----- S.E. RUN = ----- P.C. STA. = 313+05.51 P.T. STA. = 317+37.14	CURVE C15 PI STA. = 334+85.65 Δ = 3° 54' 00" (LT) D = 1° 30' 00" R = 3,819.72' T = 130.05' L = 260.00' E = 2.21' e = ----- T.R. = ----- S.E. RUN = ----- P.C. STA. = 333+55.60 P.T. STA. = 336+15.60	CURVE C16 PI STA. = 339+73.14 Δ = 7° 48' 00" (RT) D = 1° 05' 38" R = 5,237.58' T = 357.06' L = 713.02' E = 12.16' e = ----- T.R. = ----- S.E. RUN = ----- P.C. STA. = 336+16.07 P.T. STA. = 343+29.10	CURVE C17 PI STA. = 344+80.98 Δ = 3° 51' 32" (LT) D = 1° 30' 00" R = 3,819.72' T = 128.68' L = 257.25' E = 2.17' e = ----- T.R. = ----- S.E. RUN = ----- P.C. STA. = 343+52.31 P.T. STA. = 346+09.56	CURVE WFR-1 PI STA. = 241+78.91 Δ = 19° 47' 22" (LT) D = 8° 00' 01" R = 716.16' T = 124.92' L = 247.36' E = 10.81' e = 4.0% T.R. = ----- S.E. RUN = ----- P.C. STA. = 240+53.99 P.T. STA. = 243+01.35	CURVE WFR-2 PI STA. = 246+21.06 Δ = 8° 47' 35" (RT) D = 4° 00' 00" R = 1,432.40' T = 110.13' L = 219.83' E = 4.23' e = 3.4% T.R. = ----- S.E. RUN = ----- P.C. STA. = 245+10.93 P.T. STA. = 247+30.76
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CONTROL POINT #1
SET PK NAIL IN ASPHALT SHOULDER
STATION 247+60, 22.77' LT.
N 1,960,998.75
E 1,066,420.70
ELEVATION: 718.28



CONTROL POINT #2
SET PK NAIL IN ASPHALT SHOULDER
STATION 242+50, 19.02' LT.
N 1,960,494.93
E 1,066,507.03
ELEVATION: 723.92



CONTROL POINT #3
SET PK NAIL IN CONCRETE ISLAND
STATION 237+10, 24.30' LT.
N 1,959,964.50
E 1,066,454.62
ELEVATION: 726.08

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

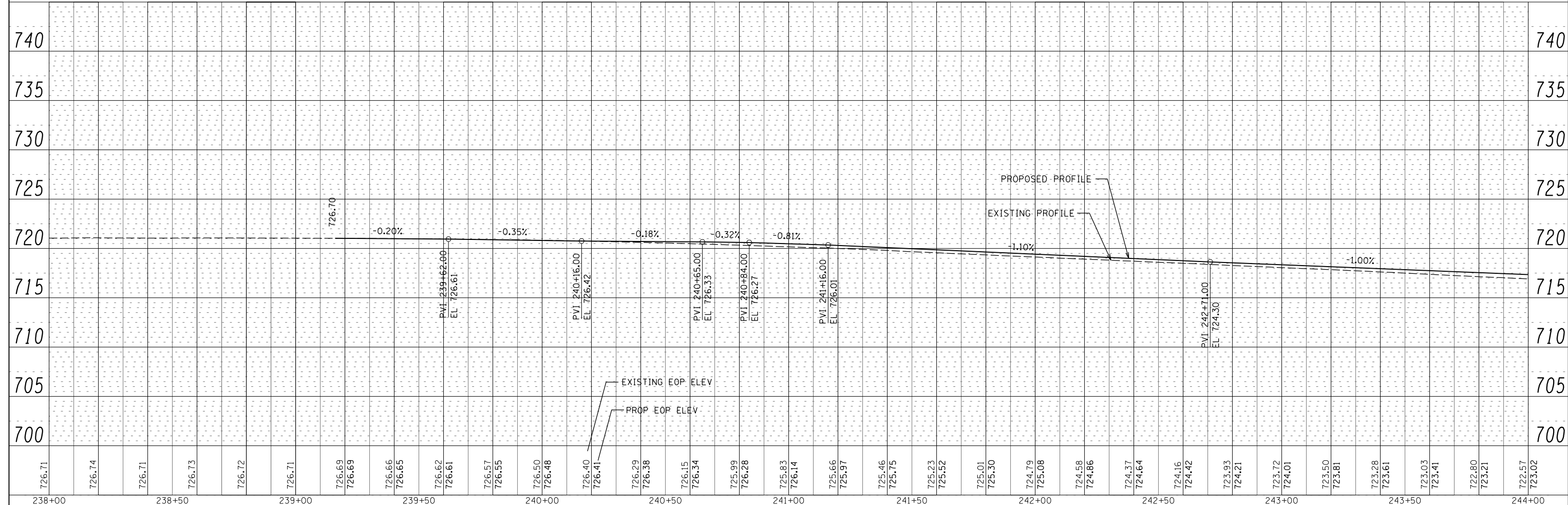
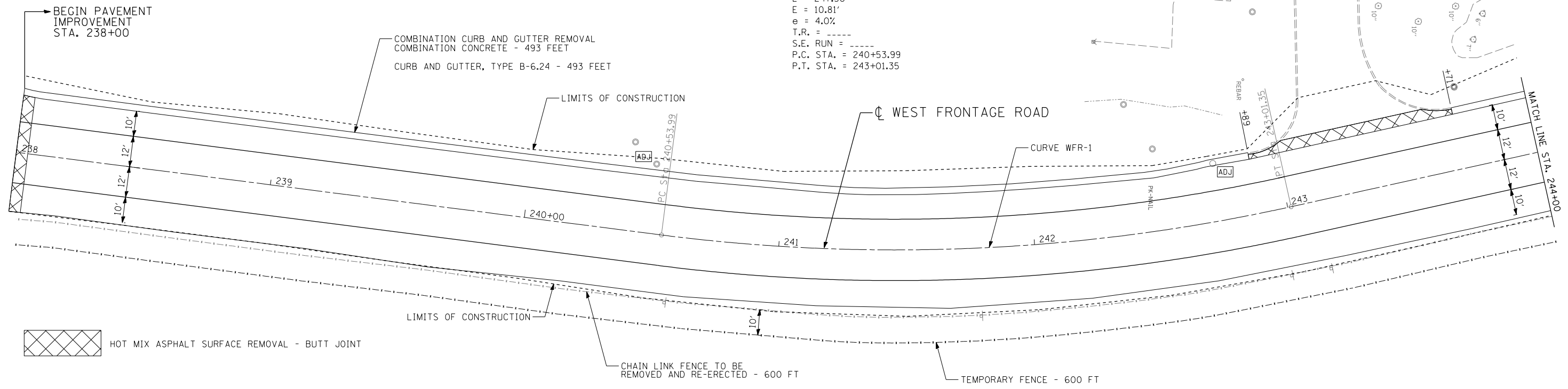
I-290 E & W FRONTAGE ROADS ALIGNMENT AND TIE	
SCALE: 200	SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
• 2959/2960	0305-302K-1-5	COOK	23	6
CONTRACT NO. 60P20			ILLINOIS FED. AID PROJECT	

PLAN	SURVEYED	BY	DATE
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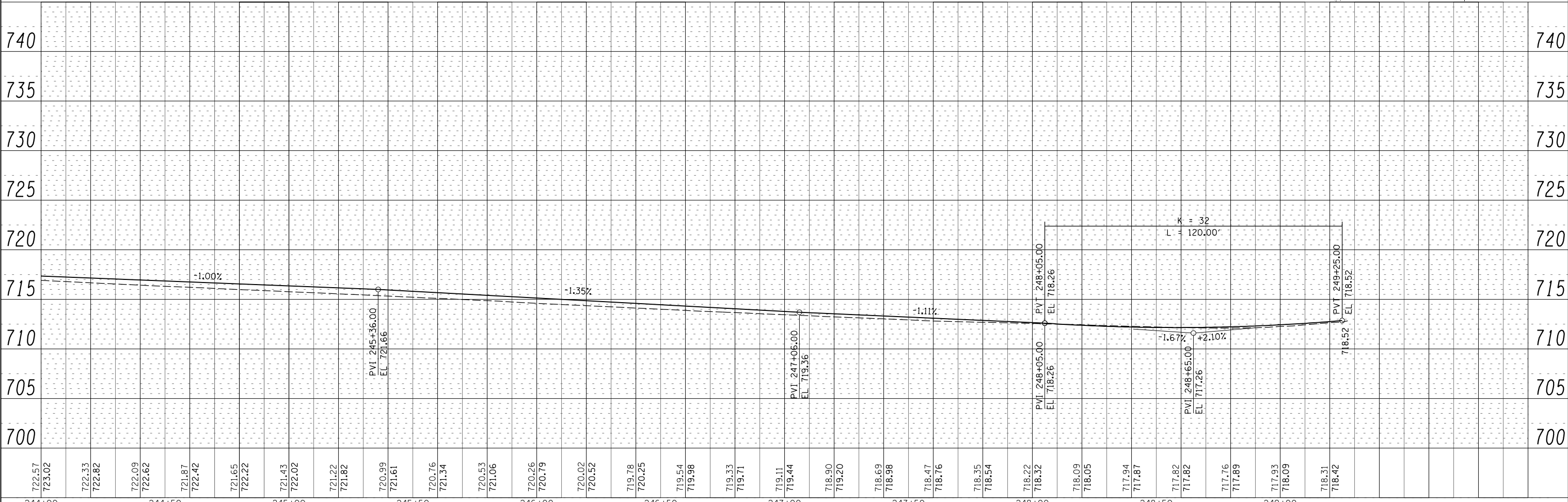
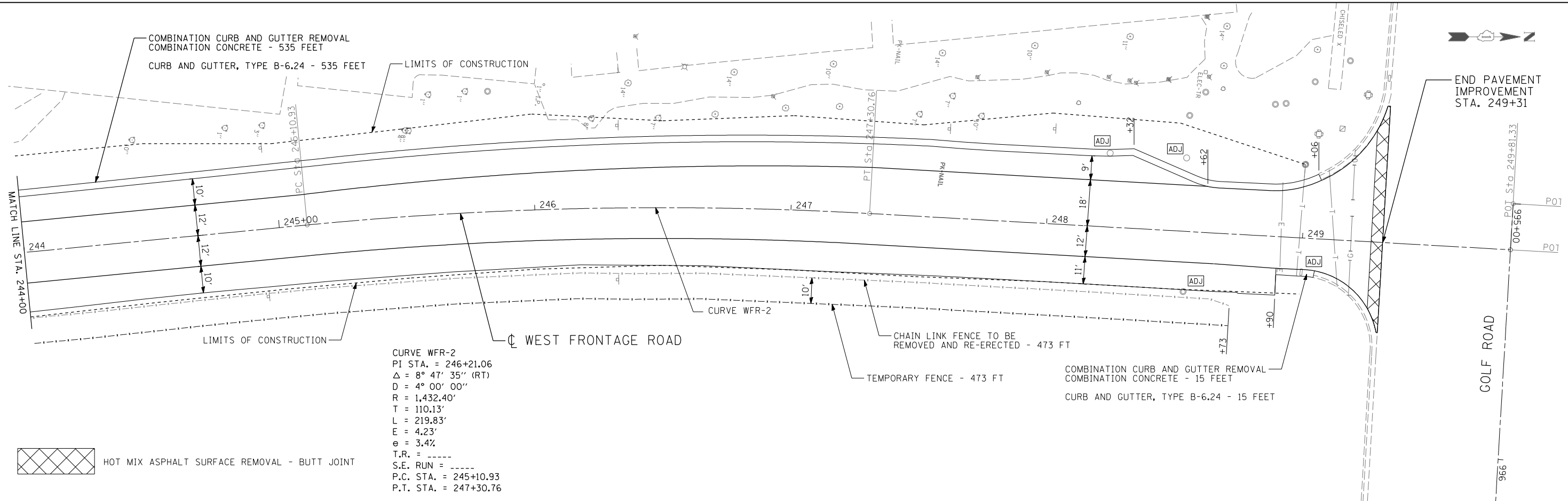
CURVE WFR-1
 PI STA. = 241+78.91
 $\Delta = 19^\circ 47' 22''$ (LT)
 $D = 8^\circ 00' 01''$
 $R = 716.16'$
 $T = 124.92'$
 $L = 247.36'$
 $E = 10.81'$
 $e = 4.0\%$
 T.R. = -----
 S.E. RUN = -----
 P.C. STA. = 240+53.99
 P.T. STA. = 243+01.35



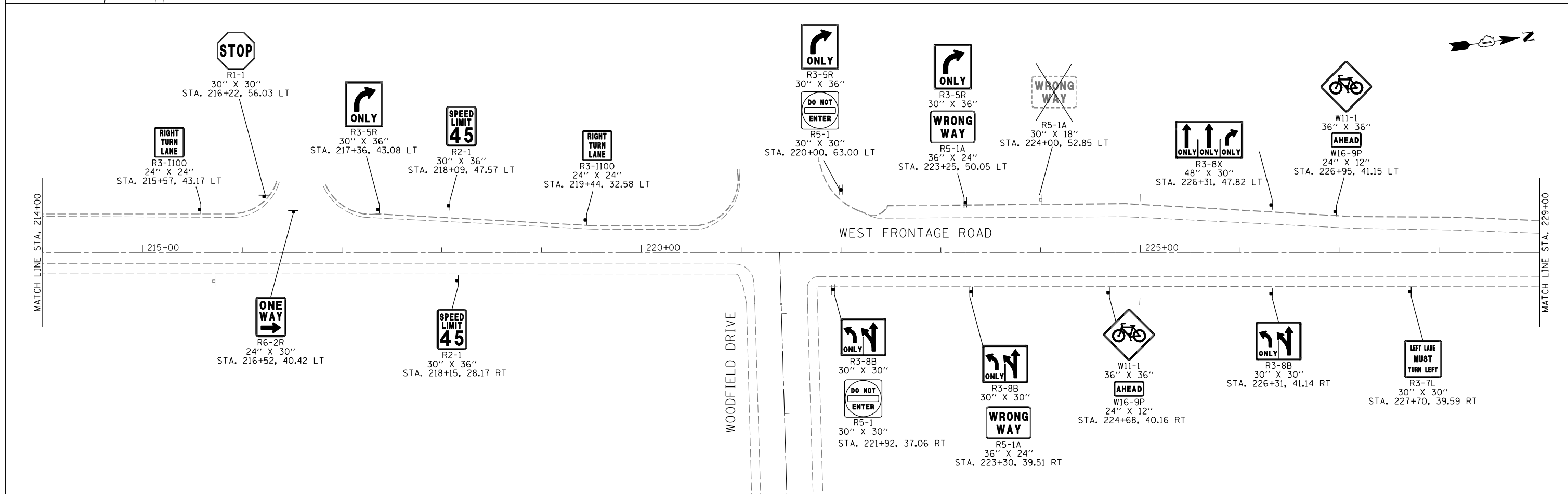
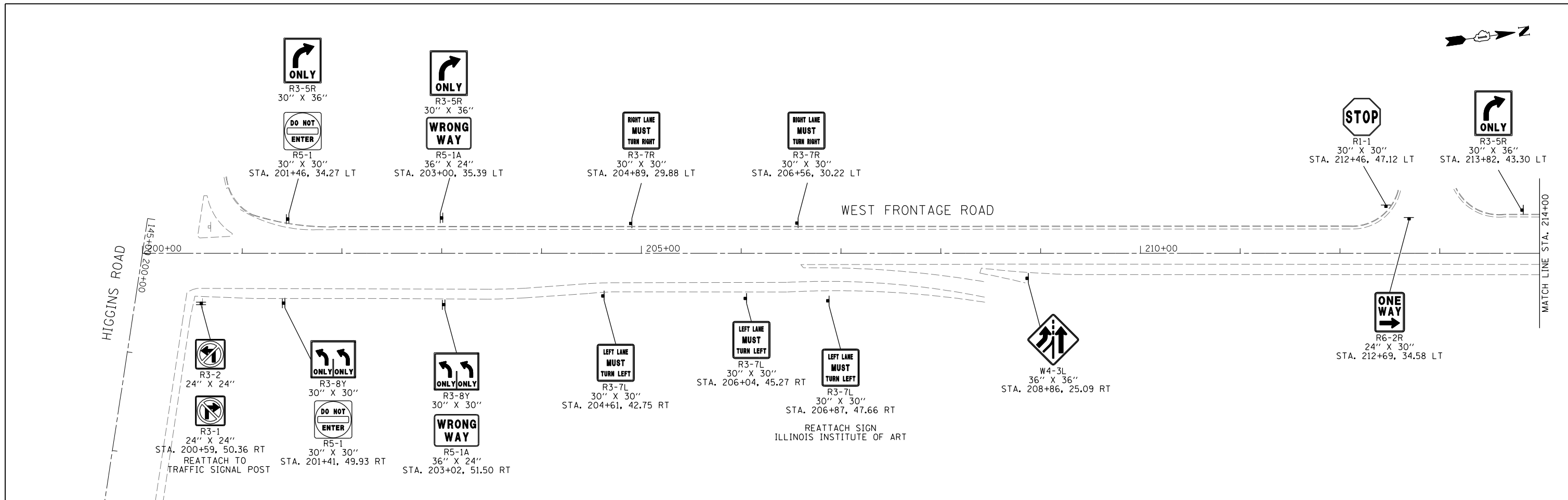
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		CHECKED - RS	REVISED -		SHEET NO. 1 OF 2 SHEETS							
		DATE - 01/31/2012	REVISED -		STA. 238+00 TO STA. 244+00							

PLAN	SURVEYED	BY	DATE
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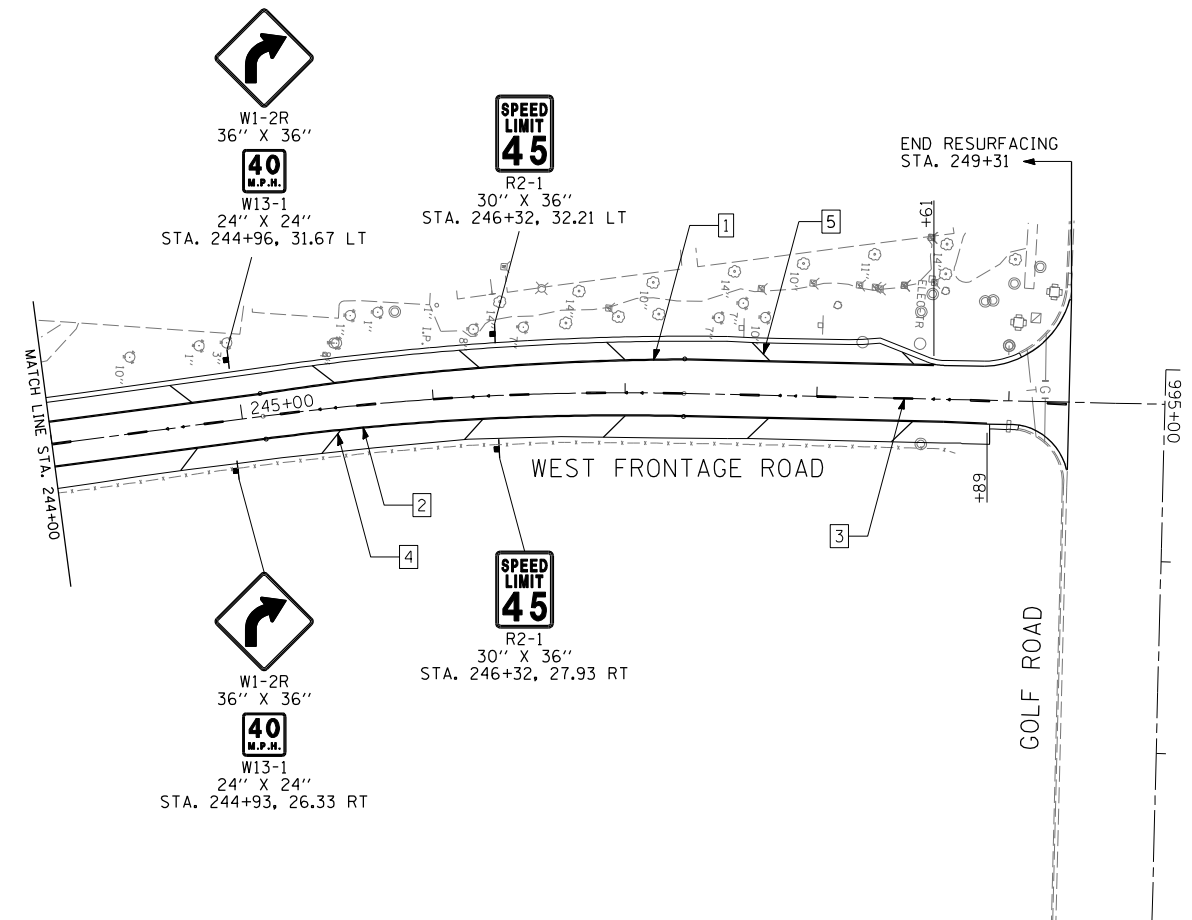
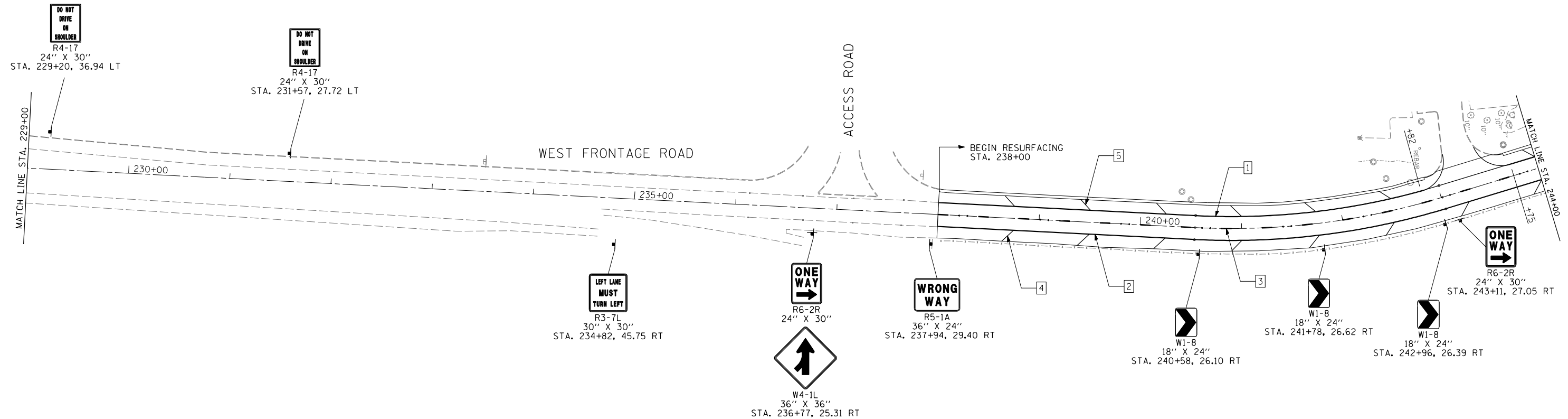
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	PLOTTED		
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	AT		
	FILE NAME		
	NO.		



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FILEL	PLOT SCALE = 40.0000' / IN.	DRAWN - EF	REVISED -			• 0305-302K-1-5	COOK	23	8	
	PLOT DATE = 1/31/2012	CHECKED - RS	REVISED -			• 2959/2960	CONTRACT NO. 60P20			
		DATE - 01/31/2012	REVISED -			ILLINOIS FED. AID PROJECT				



FILE NAME =	USER NAME = .USER.	DESIGNED - EAF	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	I-290 E & W FRONTAGE ROADS SIGNING AND PAVEMENT MARKING	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
#FILE#		DRAWN - EAF	REVISED -			0305-302K-1-5	COOK	23	9	
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	PLOT DATE = 1/31/2012	DATE - 01/31/2012	REVISED -			ILLINOIS FED. AID PROJECT				
					SCALE: 50	SHEET NO. 1 OF 4 SHEETS		STA. 200+00 TO STA. 229+00		



LEGEND

- 1] THERMOPLASTIC PAVEMENT MARKING - LINE 4" WHITE SOLID LINE
- 2] THERMOPLASTIC PAVEMENT MARKING - LINE 4" YELLOW SOLID LINE
- 3] THERMOPLASTIC PAVEMENT MARKING - LINE 4" WHITE SKIP DASH - 10' DASH, 30' SKIP W/ 2 CRYSTAL/OPAQUE
- 4] THERMOPLASTIC PAVEMENT MARKING - LINE 12" YELLOW @ 45 DEGREE
- 5] THERMOPLASTIC PAVEMENT MARKING - LINE 12" WHITE @ 45 DEGREE

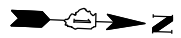
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	PLOT DATE = 1/31/2012	DATE - 01/31/2012	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**I-290 E & W FRONTAGE ROADS
SIGNING AND PAVEMENT MARKING**

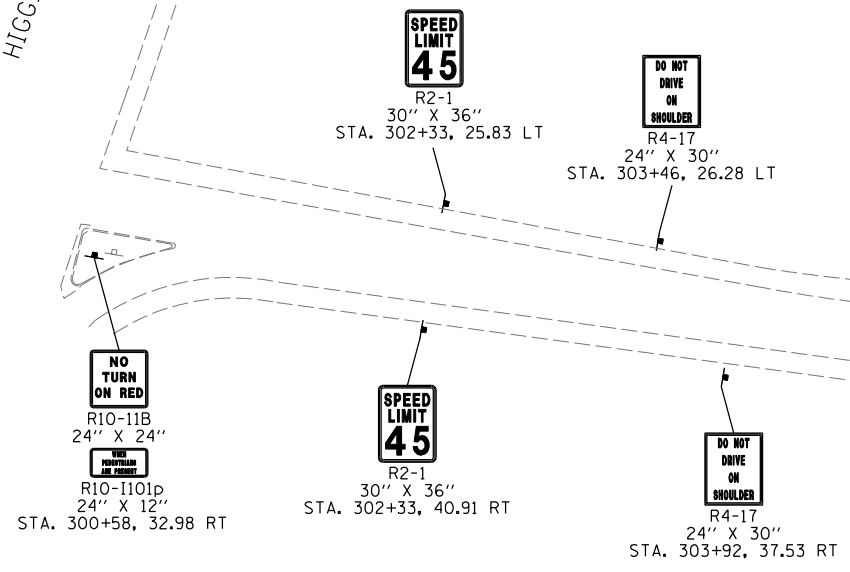
SCALE: 50 SHEET NO. 2 OF 4 SHEETS STA. 229+00 TO STA. 249+81

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
• 2959/2960	0305-302K-1-5	COOK	23	10
CONTRACT NO. 60P20			ILLINOIS FED. AID PROJECT	



HIGGINS ROAD

MATCH LINE STA. +314+00

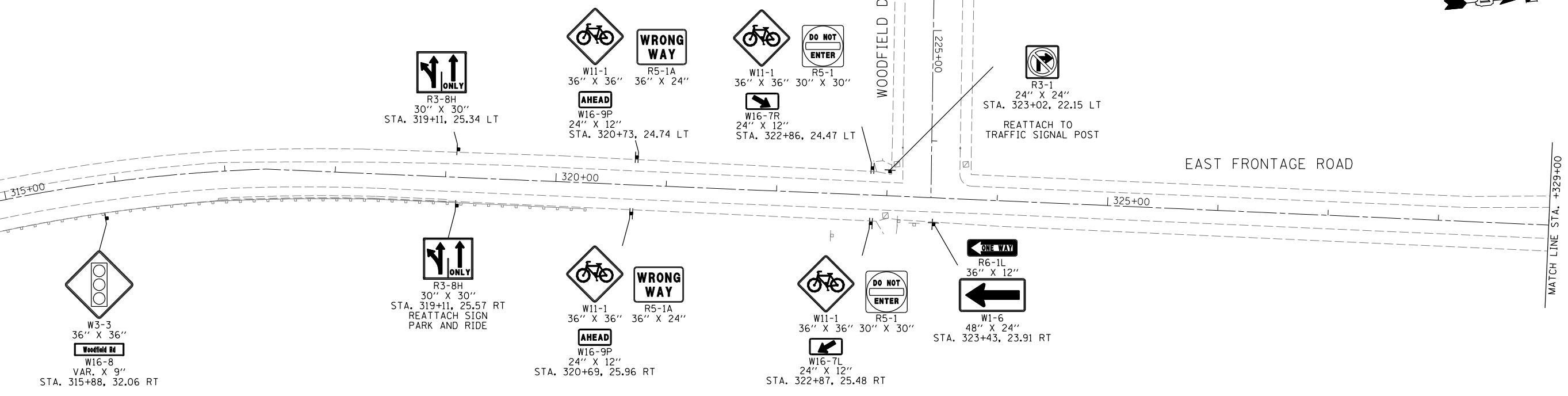


EAST FRONTAGE ROAD



MATCH LINE STA. +314+00

MATCH LINE STA. +329+00



EAST FRONTAGE ROAD

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PLOT SCALE = 100.0000' / IN.
PLOT DATE = 1/31/2012

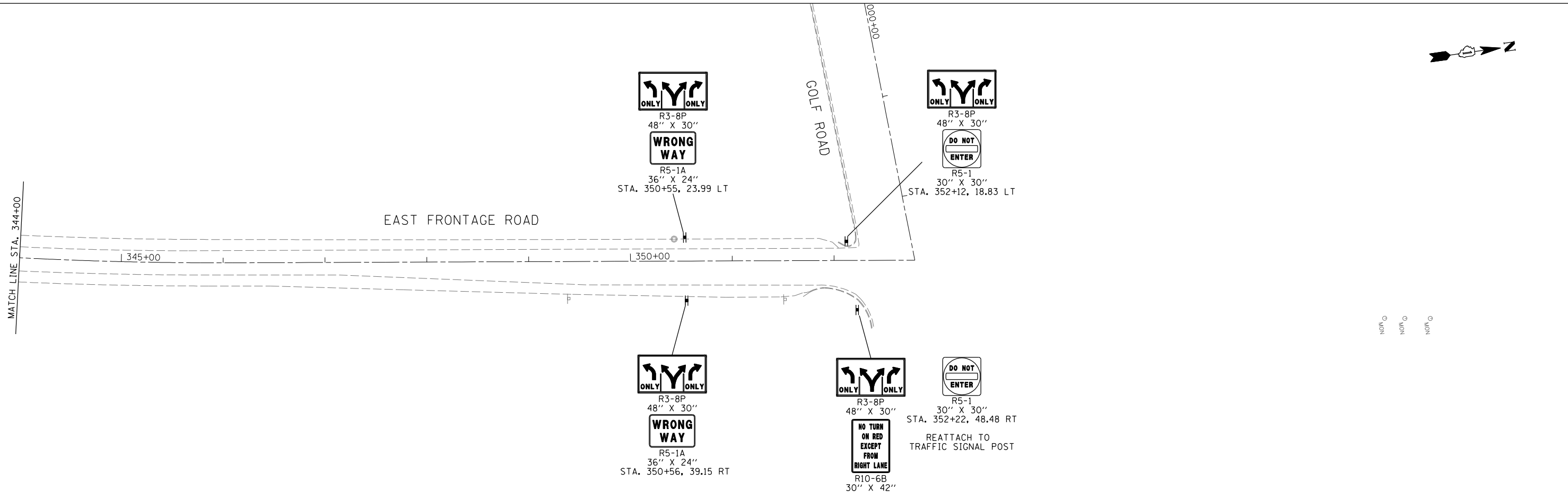
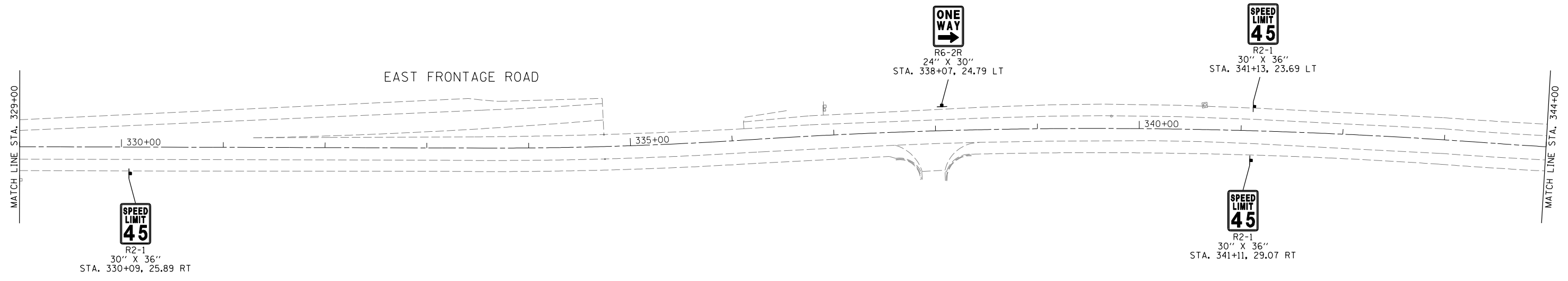
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**I-290 E & W FRONTAGE ROADS
SIGNING AND PAVEMENT MARKING**
SCALE: 50 SHEET NO. 3 OF 4 SHEETS STA. 300+00 TO STA. 329+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
• 2959/2960	0305-302K-1-5	COOK	23	11
ILLINOIS FED. AID PROJECT			CONTRACT NO. 60P20	



NOT TO SCALE
NOT TO SCALE
NOT TO SCALE

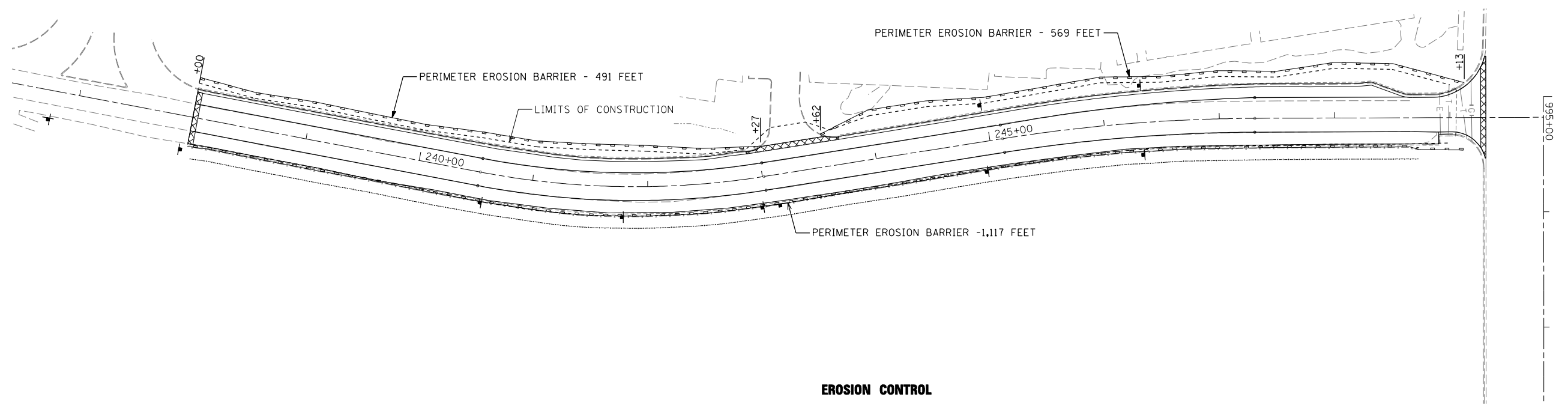
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		DRAWN - EAF	REVISED -
		CHECKED - RS	REVISED -
		DATE - 01/31/2012	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

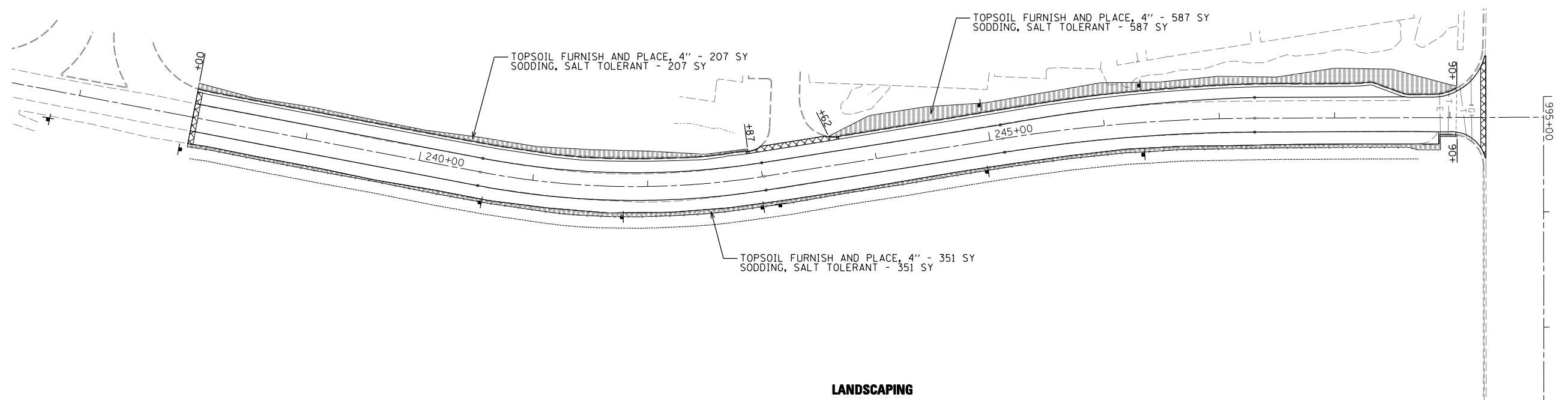
**I-290 E & W FRONTAGE ROADS
SIGNING AND PAVEMENT MARKING**

SCALE: 50 SHEET NO. 4 OF 4 SHEETS STA. 329+00 TO STA. 352+79

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
• 2959/2960	0305-302K-1-5	COOK	23	12
CONTRACT NO. 60P20			ILLINOIS FED. AID PROJECT	



EROSION CONTROL



LANDSCAPING

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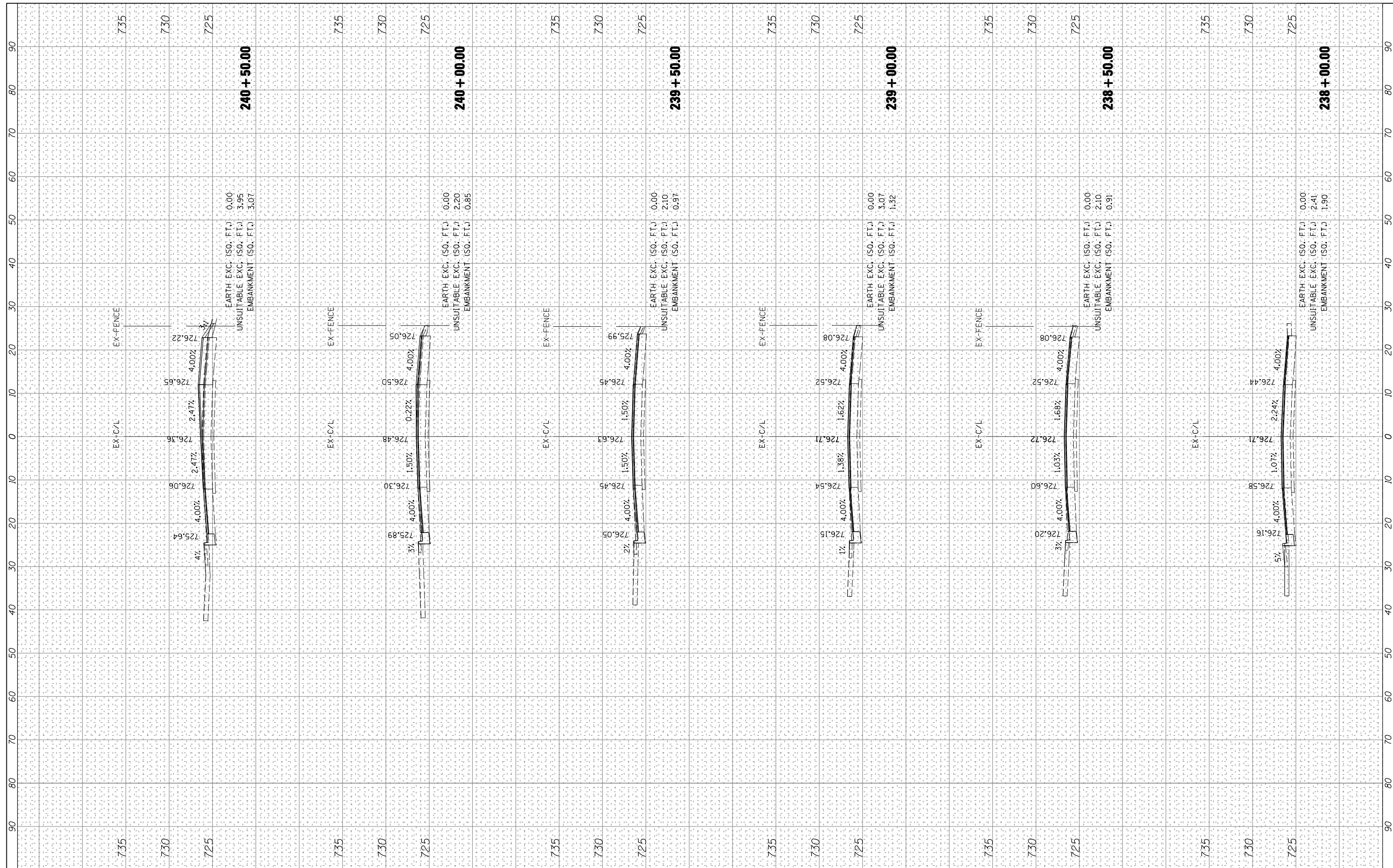
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

I-290 E & W FRONTAGE ROADS EROSION CONTROL AND LANDSCAPING			
SCALE: 50	SHEET NO. 1	OF 1 SHEETS	STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
• 2959/2960	0305-302K-1-5	COOK	23	13
				CONTRACT NO. 60P20
ILLINOIS FED. AID PROJECT				

FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
NO.	TEMPLATE		
	AREAS CHECKED		

ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
NO.	TEMPLATE		
	AREAS CHECKED		



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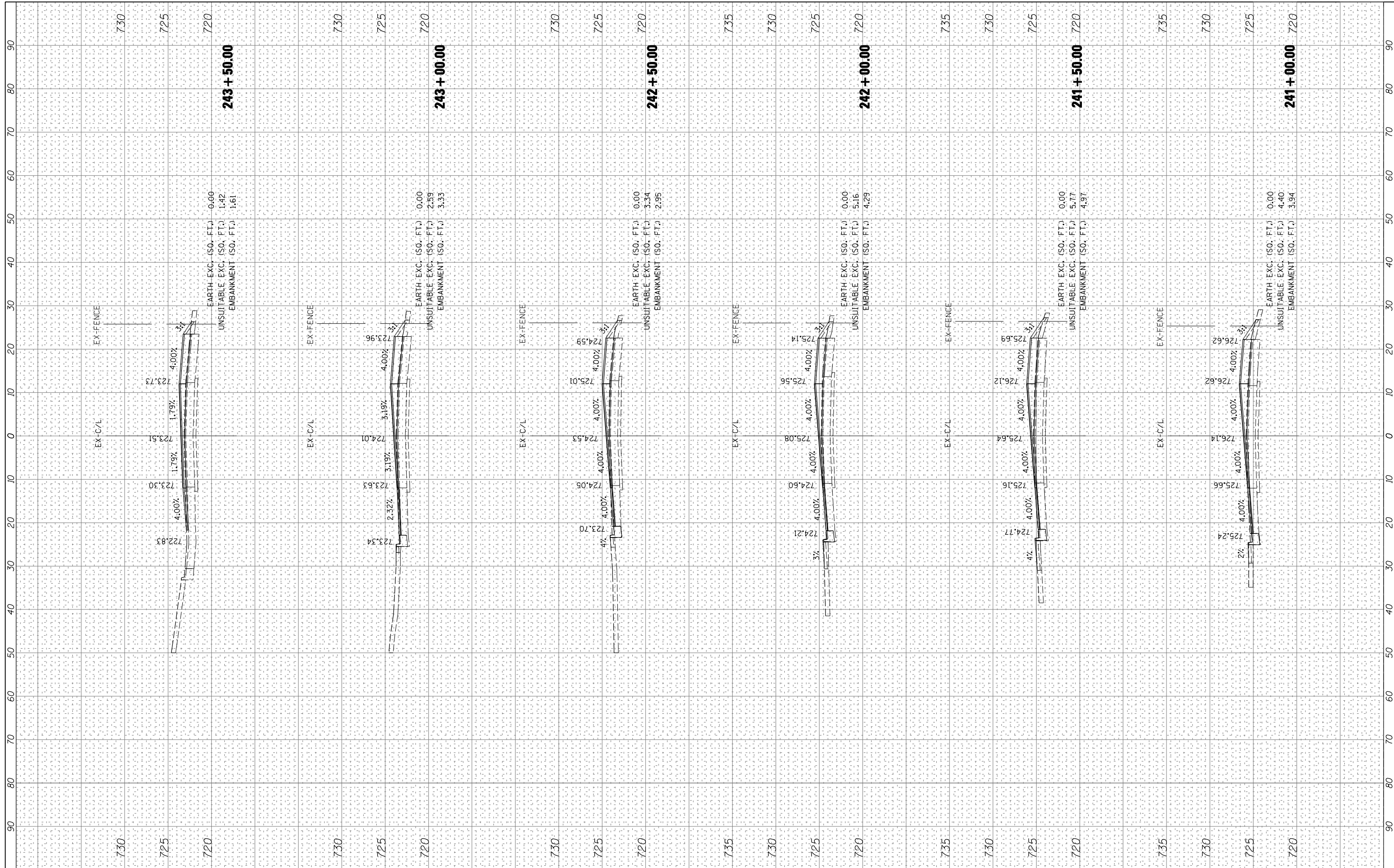
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**I-290 E & W FRONTAGE ROADS
 WEST FRONTAGE ROAD CROSS SECTIONS**
 SCALE: SHEET NO. OF SHEETS STA. 238+00.00 TO STA. 240+50.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
• 2959/2960	0305-302K-1-5	COOK	23	14
ILLINOIS FED. AID PROJECT			CONTRACT NO. 60P20	

FINISH	SURVEYED	BY	DATE
NO. _____	PLOTTED		
NOTE BOOK	TEMPLATE		
AREAS	CHECKED		
AREAS	CHECKED		

ORIGINAL	SURVEYED	BY	DATE
NO. _____	PLOTTED		
NOTE BOOK	TEMPLATE		
AREAS	CHECKED		
AREAS	CHECKED		



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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

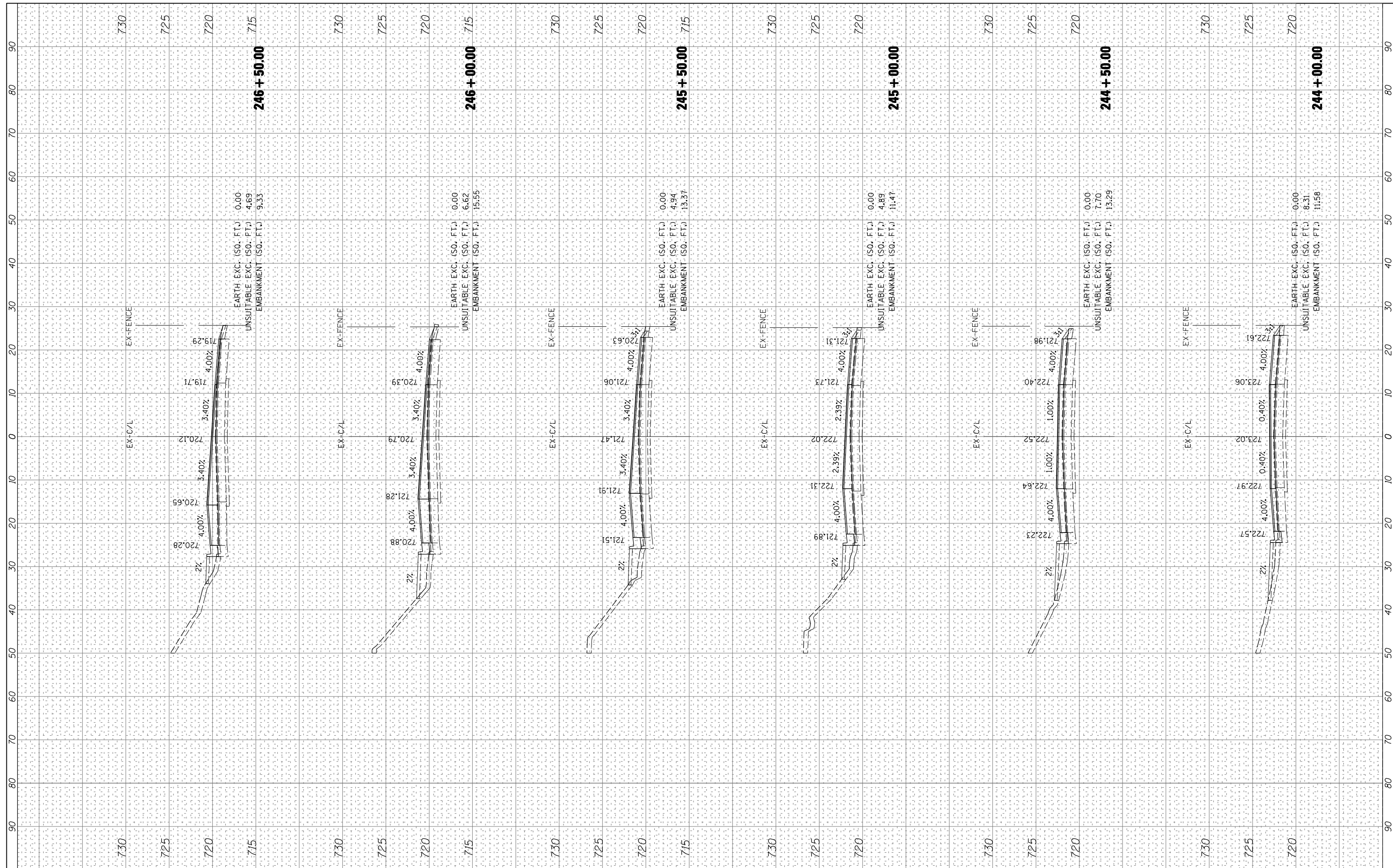
**I-290 E & W FRONTAGE ROADS
WEST FRONTAGE ROAD CROSS SECTIONS**

SCALE: SHEET NO. OF SHEETS STA. 241+00.00 TO STA. 243+50.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
• 2959/2960	0305-302K-1-5	COOK	23	15
		CONTRACT NO.	60P20	
		ILLINOIS FED. AID PROJECT		

FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
NO.	TEMPLATE		
	AREAS CHECKED		

ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
NO.	TEMPLATE		
	AREAS CHECKED		



FILE NAME = *FILEL*

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DESIGNED -	NS
DRAWN -	EF
CHECKED -	RS
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

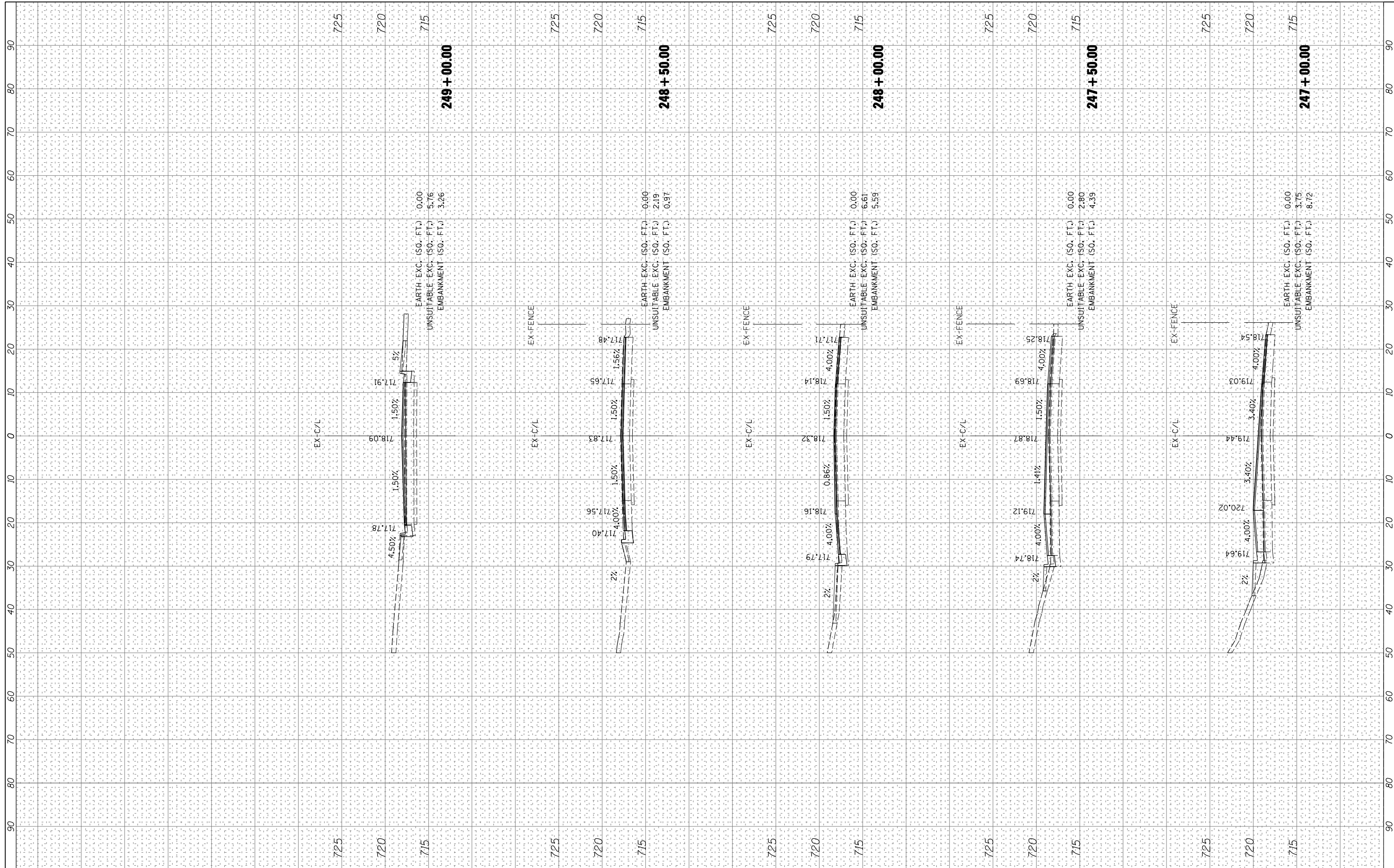
**I-290 E & W FRONTAGE ROADS
WEST FRONTAGE ROAD CROSS SECTIONS**

SCALE: SHEET NO. OF SHEETS STA. 244+00.00 TO STA. 246+50.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
• 2959/2960	0305-302K-1-5	COOK	23	16
		CONTRACT NO. 60P20		
		ILLINOIS FED. AID PROJECT		

FINL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
NO.	TEMPLATE		
	AREAS CHECKED		

ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
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	AREAS CHECKED		



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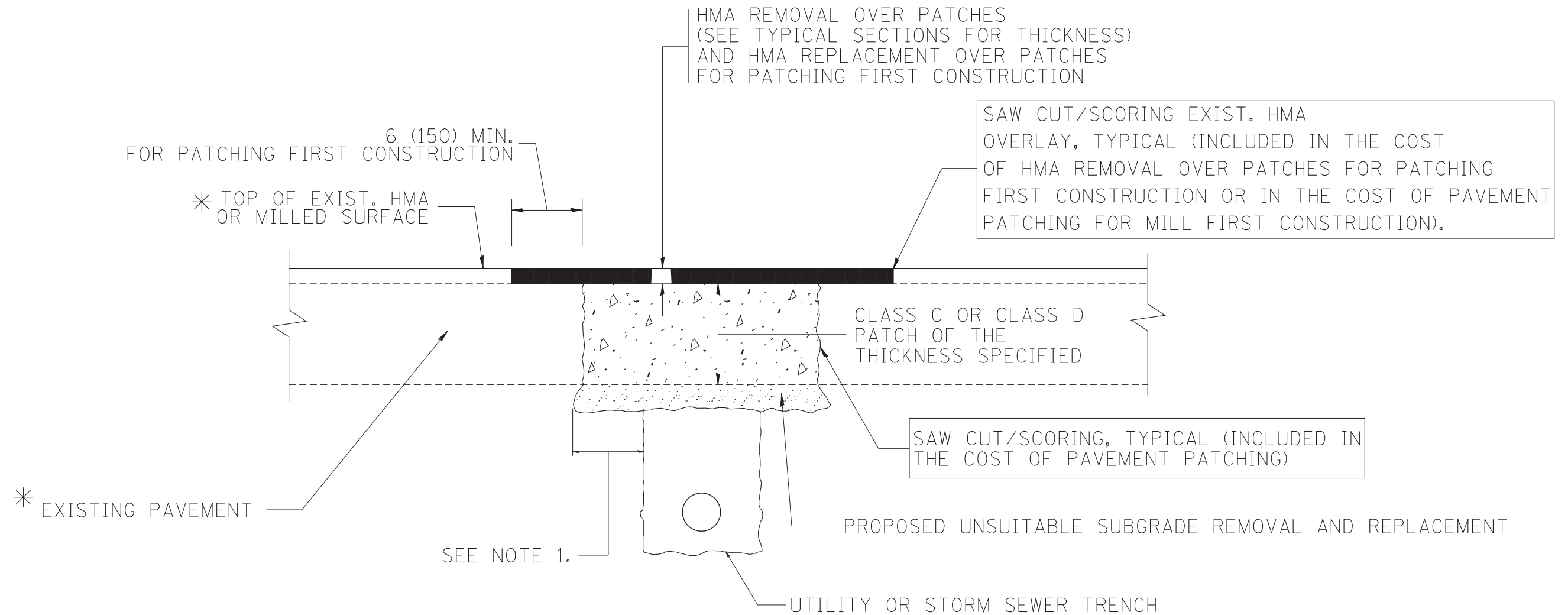
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**I-290 E & W FRONTAGE ROADS
WEST FRONTAGE ROAD CROSS SECTIONS**
SCALE: SHEET NO. OF SHEETS STA. 247+00.00 TO STA. 249+00.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
• 2959/2960	0305-302K-1-5	COOK	23	17
ILLINOIS FED. AID PROJECT			CONTRACT NO. 60P20	



* SEE TYPICAL SECTIONS FOR THICKNESS AND MATERIALS

NOTES:

1. THE WIDTH OF THE FULL DEPTH PATCH OVER A TRENCH SHALL BE 12 (300) WIDER ON EACH SIDE OF THE TRENCH.
2. FOR METHOD OF MEASUREMENT AND BASIS OF PAYMENT, SEE RECURRING SPECIAL PROVISION "PATCHING WITH HOT-MIX ASPHALT OVERLAY REMOVAL".

SEQUENCE OF CONSTRUCTION (PATCHING FIRST)

1. REMOVE THE EXISTING HMA MATERIAL OVER THE AREA TO BE PATCHED.
2. REMOVE AND REPLACE WITH CLASS C OR D PATCH.
3. REPLACE HMA MATERIAL OVER THE AREA TO BE PATCHED.

SEQUENCE OF CONSTRUCTION (MILLING FIRST)

1. MILL HMA FIRST IF THERE IS AT LEAST 4 1/2 INCHES OR MORE OF HMA MATERIAL ON TOP OF THE EXISTING PAVEMENT OR IF THE PAVEMENT IS FULL DEPTH HMA. A MINIMUM OF 2 INCHES OF HMA MATERIAL SHALL BE IN PLACE AFTER MILLING.
2. REMOVE AND REPLACE WITH FULL DEPTH CLASS D PATCHES TO TOP OF MILLED SURFACE.

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

* 2959 /2960

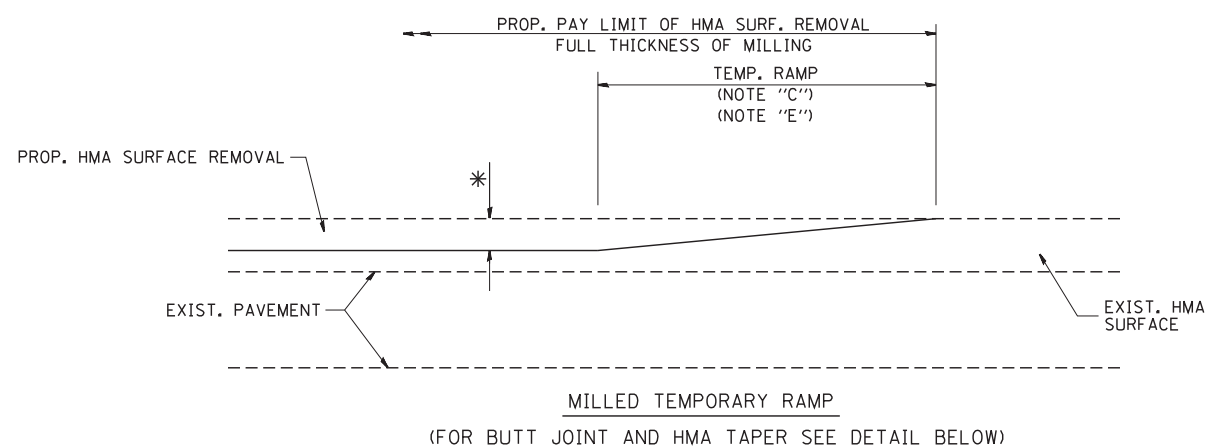
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

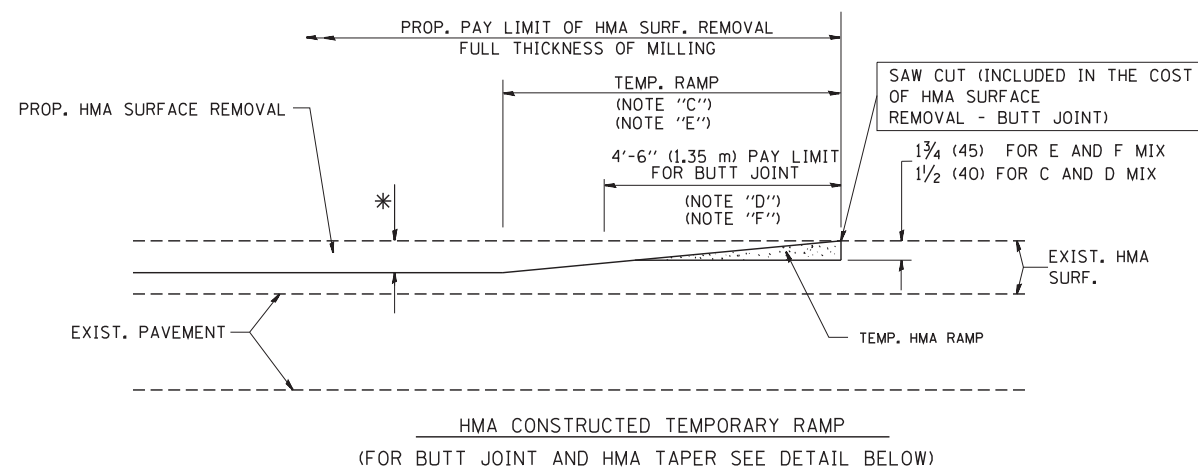
**PAVEMENT PATCHING FOR
HMA SURFACED PAVEMENT**

SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	0305-302K-1-5	COOK	23	18
BD400-04 (BD-22)			CONTRACT NO. 60P20	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

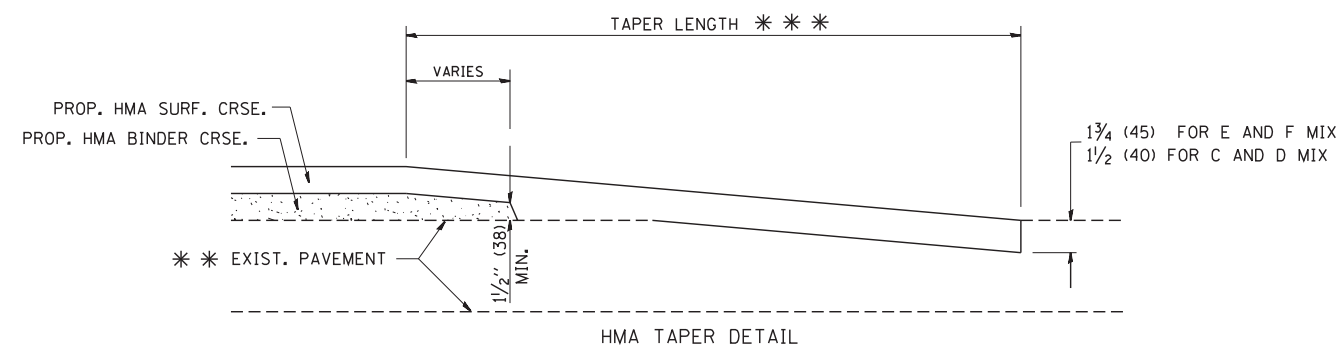
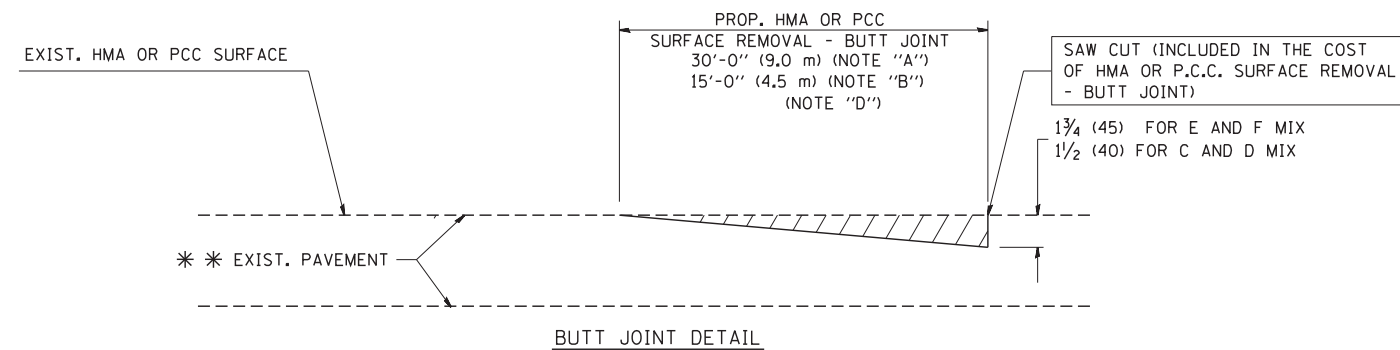


OPTION 1



OPTION 2

TYPICAL TEMPORARY RAMP



TYPICAL BUTT JOINT AND HMA TAPER FOR RESURFACING ONLY

* * PC CONCRETE, HMA OR HMA RESURFACED PAVEMENT.

NOTES

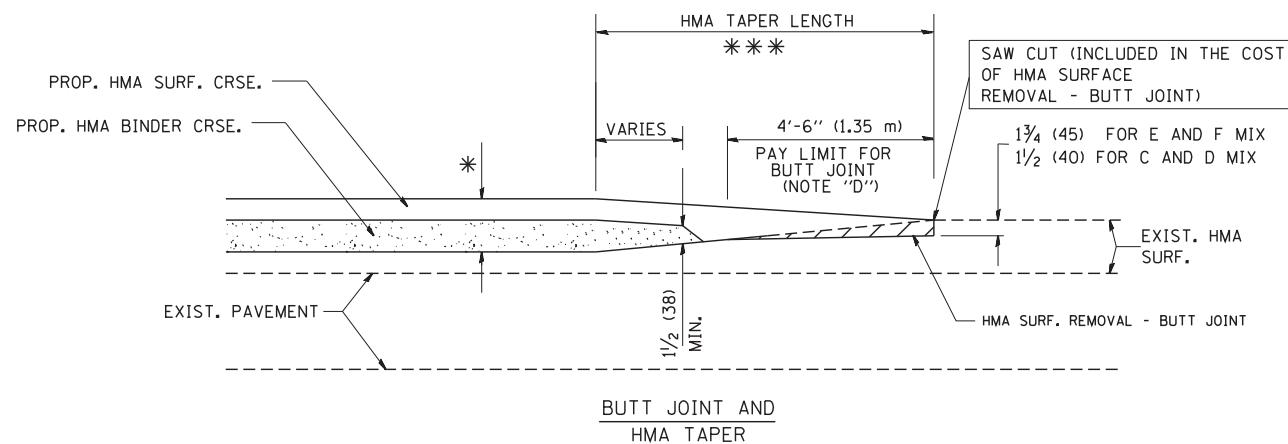
- A: MAINLINE ROADWAYS AND MAJOR SIDE ROADS.
 - B: MINOR SIDE ROADS.
 - C: THE TEMP. RAMP SHALL BE CONSTRUCTED IMMEDIATELY UPON REMOVAL OF THE EXISTING HMA SURFACE.
 - D: THE BUTT JOINT SHALL BE CONSTRUCTED IMMEDIATELY PRIOR TO PLACING THE PROPOSED HMA COURSES.
 - E: TAPER THE TEMP. RAMP AT A RATE OF 3'-0" (900 mm) PER 1 INCH (25 mm) OF MILLING THICKNESS.
 - F: INSTALLATION AND REMOVAL OF THE 4'-6" (1.35 m) TEMP. RAMP IS INCLUDED IN COST OF HMA SURFACE REMOVAL - BUTT JOINT
 - G: SEE ARTICLE 406.08 AND 406.14 OF THE STANDARD SPECIFICATIONS FOR "HMA AND/OR PCC SURFACE REMOVAL, BUTT JOINT".
- * SEE TYPICAL SECTIONS FOR MILLING THICKNESS.
- * * * 20'-0" (6.1 m) PER 1 (25) RESURFACING (NOTE "A")
10'-0" (3.0 m) PER 1 (25) RESURFACING (NOTE "B")

BASIS OF PAYMENT:

THE BUTT JOINT WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER SQUARE YARD (SQUARE METER) FOR "HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT" OR FOR "PORTLAND CEMENT CONCRETE SURFACE REMOVAL - BUTT JOINT".

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

* 2959 /2960



TYPICAL BUTT JOINT AND HMA TAPER FOR MILLING AND RESURFACING

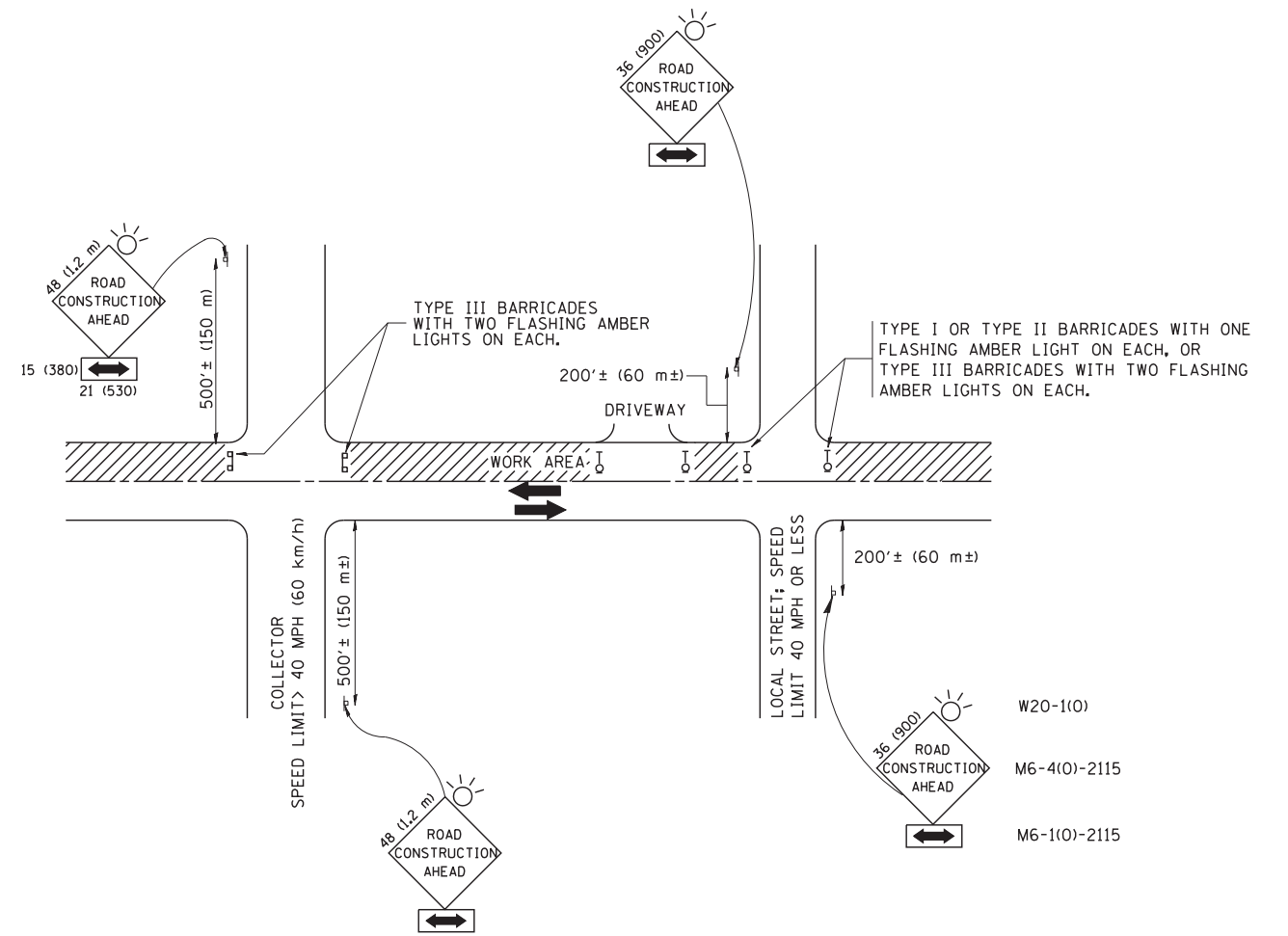
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	PLOT DATE = 1/4/2008	DATE - 06-13-90	REVISED - R. BORO 01-01-07

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**BUTT JOINT AND
HMA TAPER DETAILS**

SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	0305-302K-1-5	COOK	23	19
BD400-05 BD32		CONTRACT NO. 60P20		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS

NOTES:

A. FOR NO LANE RESTRICTION ON THE SIDE ROAD OR DRIVEWAYS

1. SIDE ROAD WITH A SPEED LIMIT OF 40 MPH (60 km/h) OR LESS AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:

a) ONE **ROAD CONSTRUCTION AHEAD** SIGN 36 x 36 (900x900) WITH A FLASHER AND FLAG MOUNTED ON IT APPROXIMATELY 200' (60 m) IN ADVANCE OF THE MAIN ROUTE.

b) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE I, TYPE II OR TYPE III BARRICADES, 1/3 OF THE CROSS SECTION OF THE CLOSED PORTION.

2. SIDE ROAD WITH A SPEED LIMIT GREATER THAN 40 MPH (60 km/h) AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:

a) ONE **ROAD CONSTRUCTION AHEAD** SIGN 48 x 48 (1.2 m x 1.2 m) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 500' (150 m) IN ADVANCE OF THE MAIN ROUTE.

b) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE III BARRICADES, 1/2 OF THE CROSS SECTION OF THE CLOSED PORTION.

3. WHEN THE SIDE ROAD LIES BETWEEN THE BEGINNING OF THE MAINLINE SIGNING AND THE WORK ZONE, A SINGLE HEADED ARROW (M6-1) SHALL BE USED IN LIEU OF THE DOUBLE HEADED ARROW (M6-4).

B. FOR A LANE CLOSURE ON A SIDE ROAD OR DRIVEWAY:

USE APPLICABLE PORTIONS OF THE TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES (STD. 701501, STD. 701606 OR THE APPROPRIATE STANDARD). THE SPACING OF SIGNS AND BARRICADES SHALL BE ADJUSTED FOR FIELD CONDITIONS AS DIRECTED BY THE ENGINEER. THE DIRECTIONAL ARROW SHALL BE COVERED OR REMOVED WHEN NO LONGER CONSISTENT WITH THE SIDE ROAD LANE CLOSURE.

C. ADVANCE WARNING SIGNS ARE TO BE OMITTED ON DRIVEWAY UNLESS OTHERWISE NOTED.

D. THE TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS SHALL BE INCIDENTAL TO THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

All dimensions are in millimeters (inches) unless otherwise shown. * 2959 / 2960

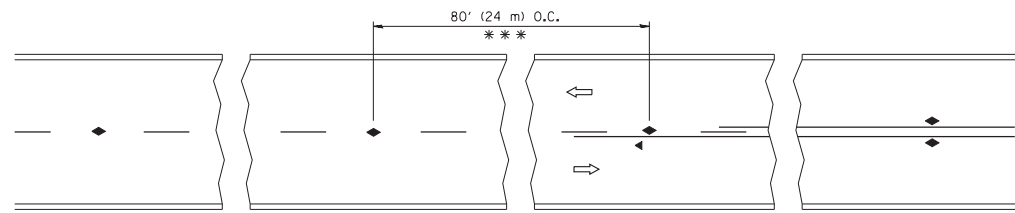
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	PLOT DATE = 1/4/2008	DATE - 06-89	REVISED - T. RAMMACHER 01-06-00

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL AND PROTECTION FOR
SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS

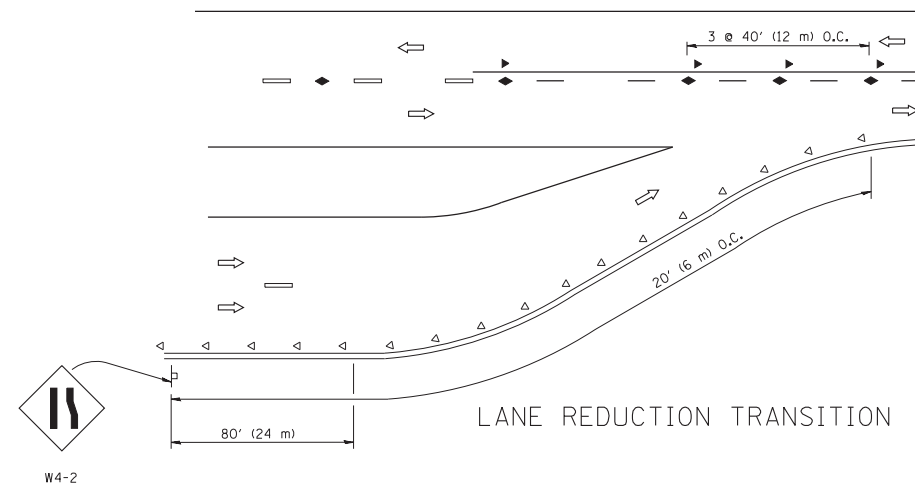
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TC-10			CONTRACT NO. 60P20	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

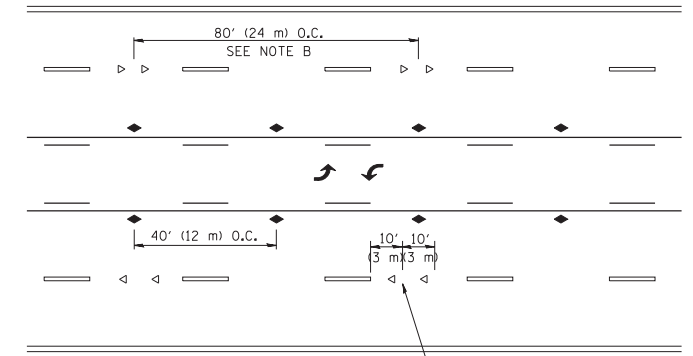


*** REDUCE TO 40' (12 m) O.C. ON CURVES WITH POSTED OR ADVISORY SPEED 45 M.P.H. (70 km/h) OR LESS.

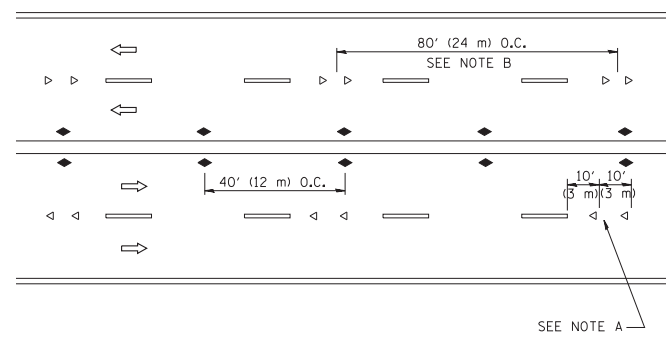
TWO-LANE/TWO-WAY



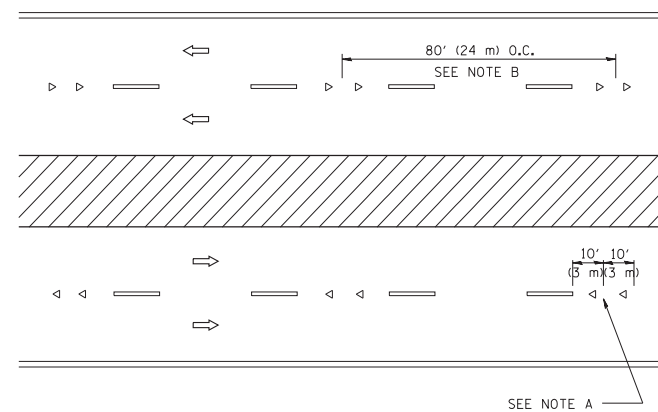
LANE REDUCTION TRANSITION



TWO-WAY LEFT TURN



MULTI-LANE/UNDIVIDED



MULTI-LANE/DIVIDED

GENERAL NOTES

1. MARKERS USED WITH DASHED LINES SHALL BE CENTERED IN THE GAP BETWEEN SEGMENTS.
2. MARKERS USED ADJACENT TO SOLID LINES SHALL BE OFFSET 2 TO 3 (50 TO 75) TOWARD TRAFFIC AS SHOWN.
3. MARKERS THROUGH TANGENTS LESS THAN 500' (150 m) IN LENGTH BETWEEN CURVES SHALL BE INSTALLED AT THE LESSER OF THE TWO CURVE SPACINGS.

SYMBOLS

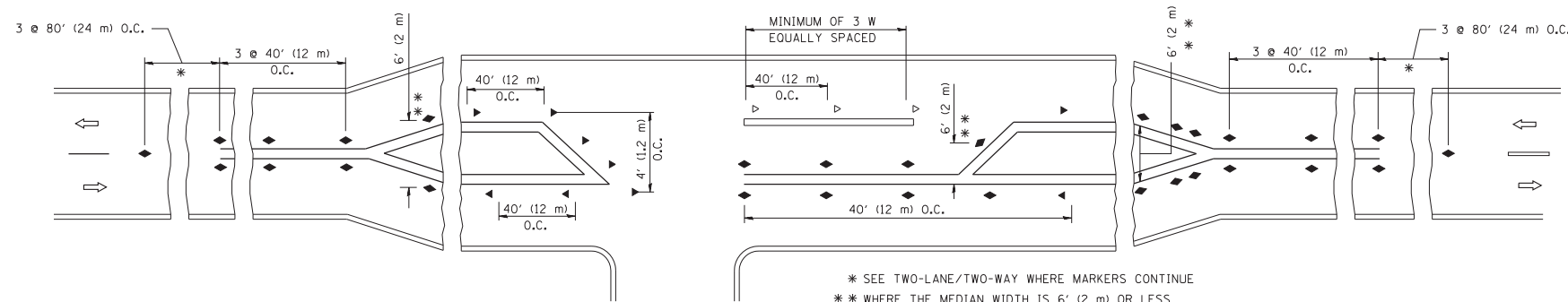
- YELLOW STRIPE
- ▬ WHITE STRIPE
- ◀ ONE-WAY AMBER MARKER
- ◁ ONE-WAY CRYSTAL MARKER (W/O)
- ◆ TWO-WAY AMBER MARKER

LANE MARKER NOTES

- A. USE DOUBLE LANE LINE MARKERS SPACED AS SHOWN.
- B. REDUCE TO 40' (12 m) O.C. ON CURVES WHERE ADVISORY SPEEDS ARE 10 M.P.H (20 km/h) LOWER THAN POSTED SPEEDS.

DESIGN NOTES

1. DOUBLE LANE LINE MARKERS SHALL BE USED UNLESS SPECIFIED OTHERWISE.
2. EXCEPT AS SHOWN ON THE LANE REDUCTION TRANSITION AND FREEWAY EXIT RAMP DETAIL, MARKERS ARE NOT TO BE SPECIFIED ON RIGHT EDGE LINES.
3. THE EXACT MARKER LIMITS, SPACING, AND COLOR SHOULD BE INCLUDED IN THE PLANS.
4. MARKERS SHOULD NOT BE USED ALONGSIDE CURBS EXCEPT FOR EXTREMELY SHORT SECTIONS OF CURBS WHERE NOT MORE THAN TWO MARKERS WOULD BE INVOLVED.



LEFT TURN

* SEE TWO-LANE/TWO-WAY WHERE MARKERS CONTINUE
 ** WHERE THE MEDIAN WIDTH IS 6' (2 m) OR LESS USE TWO-WAY MARKERS.

All dimensions are in inches (millimeters) unless otherwise shown.

* 2959 /2960

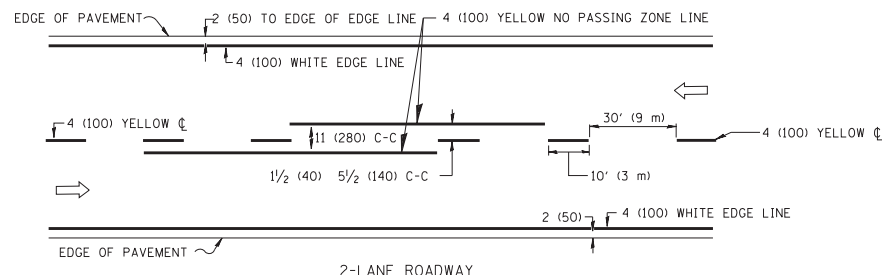
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STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

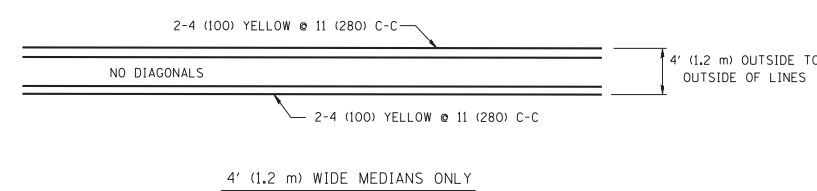
TYPICAL APPLICATIONS
 RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT)

SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.

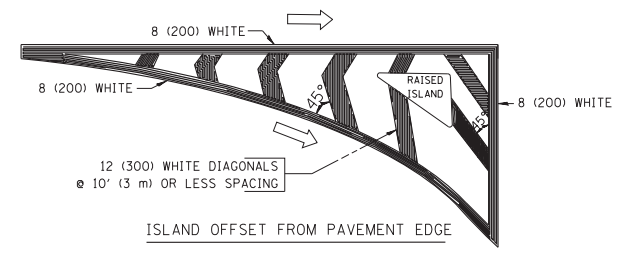
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	0305-302K-I-5	COOK	23	21
TC-11			CONTRACT NO. 60P20	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



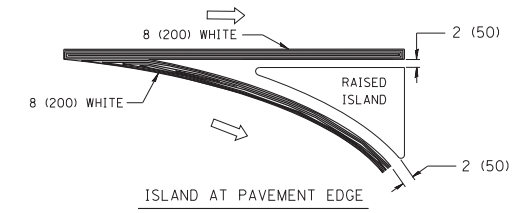
2-LANE ROADWAY



4' (1.2 m) WIDE MEDIANS ONLY

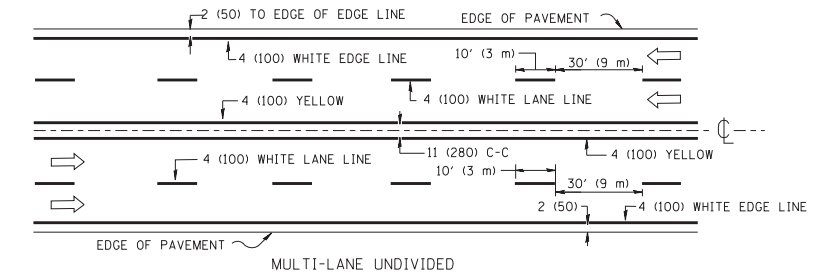


ISLAND OFFSET FROM PAVEMENT EDGE

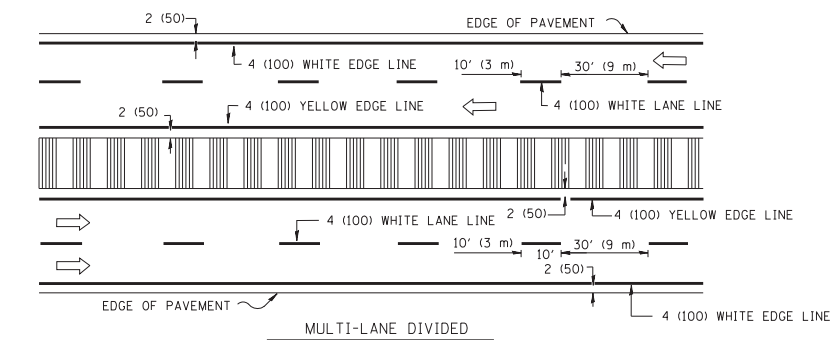


ISLAND AT PAVEMENT EDGE

TYPICAL ISLAND MARKING



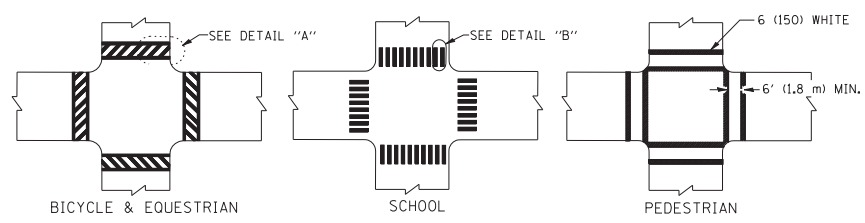
MULTI-LANE UNDIVIDED



MULTI-LANE DIVIDED WITH MOUNTABLE MEDIAN

NOTE: MEDIANS WITH BARRIER CURB DO NOT REQUIRE AN EDGE LINE

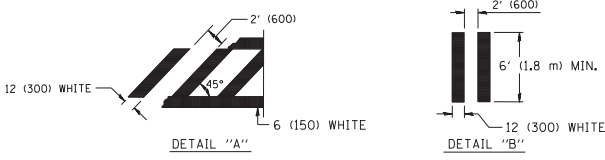
TYPICAL LANE AND EDGE LINE MARKING



BICYCLE & EQUESTRIAN

SCHOOL

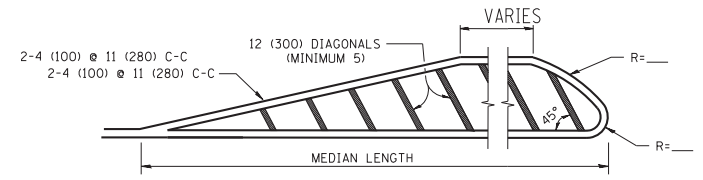
PEDESTRIAN



DETAIL "A"

DETAIL "B"

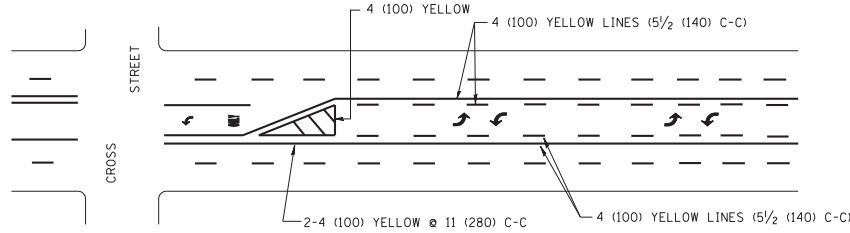
TYPICAL CROSSWALK MARKING



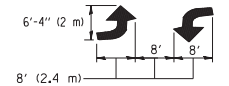
FOR MEDIAN LENGTHS WHERE DIAGONAL SPACING CANNOT BE ATTAINED, USE 5 (FIVE) EQUALLY SPACED DIAGONAL LINES.

DIAGONAL LINE SPACING: 50' (15 m) C-C (LESS THAN 30MPH (50 km/h))
75' (25 m) C-C 30MPH (50 km/h) TO 45MPH (70 km/h)
150' (45 m) C-C (MORE THAN 45MPH (70 km/h))

MEDIANS OVER 4' (1.2 m) WIDE

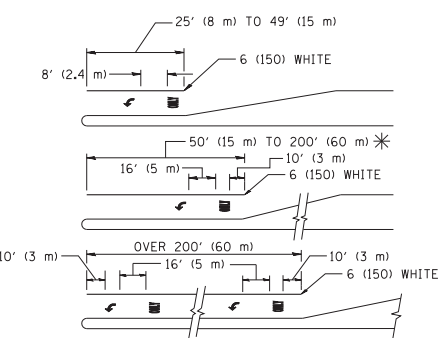


A MINIMUM OF TWO PAIRS OF TURN ARROWS SHALL BE USED, WHITE IN COLOR. ADDITIONAL PAIRS SHALL BE PLACED AT 200' (60 m) TO 300' (90 m) INTERVALS.



MEDIAN WITH TWO-WAY LEFT TURN LANE

TYPICAL PAINTED MEDIAN MARKING



FULL SIZE LETTERS 8' (2.4 m) AND ARROWS SHALL BE USED.
AREA = 15.6 SQ. FT. (1.5 m²) ONLY AREA = 20.8 SQ. FT. (1.9 m²)

* TURN LANES IN EXCESS OF 400' (120 m) IN LENGTH MAY HAVE AN ADDITIONAL SET OF ARROW - "ONLY" INSTALLED MIDWAY BETWEEN THE OTHER TWO SETS OF ARROW - "ONLY".

TYPICAL LEFT (OR RIGHT) TURN LANE

TYPICAL TURN LANE MARKING

TYPE OF MARKING	WIDTH OF LINE	PATTERN	COLOR	SPACING / REMARKS
CENTERLINE ON 2 LANE PAVEMENT	4 (100)	SKIP-DASH	YELLOW	10' (3 m) LINE WITH 30' (9 m) SPACE
CENTERLINE ON MULTI-LANE UNDIVIDED PAVEMENT	2 @ 4 (100)	SOLID	YELLOW	11 (280) C-C
NO PASSING ZONE LINES: FOR ONE DIRECTION	4 (100)	SOLID	YELLOW	5/2 (140) C-C FROM SKIP-DASH CENTERLINE
NO PASSING ZONE LINES: FOR BOTH DIRECTIONS	2 @ 4 (100)	SOLID	YELLOW	11 (280) C-C OMIT SKIP-DASH CENTERLINE BETWEEN
LANE LINES	4 (100) 5 (125) ON FREEWAYS	SKIP-DASH SKIP-DASH	WHITE WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE
DOTTED LINES (EXTENSIONS OF CENTER, LANE OR TURN LANE MARKINGS)	SAME AS LINE BEING EXTENDED	SKIP-DASH	SAME AS LINE BEING EXTENDED	2' (600) LINE WITH 6' (1.8 m) SPACE
EDGE LINES	4 (100)	SOLID	YELLOW-LEFT WHITE-RIGHT	OUTLINE MOUNTABLE MEDIANS IN YELLOW; EDGE LINES ARE NOT USED NEXT TO BARRIER CURB
TURN LANE MARKINGS	6 (150) LINE; FULL SIZE LETTERS & SYMBOLS (8' (2.4m))	SOLID	WHITE	SEE TYPICAL TURN LANE MARKING DETAIL
TWO WAY LEFT TURN MARKING	2 @ 4 (100) EACH DIRECTION	SKIP-DASH AND SOLID	YELLOW	10' (3 m) LINE WITH 30' (9 m) SPACE FOR SKIP-DASH; 5/2 (140) C-C BETWEEN SOLID LINE AND SKIP-DASH LINE
	8' (2.4m) LEFT ARROW	IN PAIRS	WHITE	SEE TYPICAL TWO-WAY LEFT TURN MARKING DETAIL
CROSSWALK LINES (PEDESTRIAN) A. DIAGONALS (BIKE & EQUESTRIAN) B. LONGITUDINAL BARS (SCHOOL)	2 @ 6 (150) 12 (300) @ 45° 12 (300) @ 90°	SOLID SOLID SOLID	WHITE WHITE WHITE	NOT LESS THAN 6' (1.8 m) APART 2' (600) APART 2' (600) APART SEE TYPICAL CROSSWALK MARKING DETAILS.
STOP LINES	24 (600)	SOLID	WHITE	PLACE 4' (1.2 m) IN ADVANCE OF AND PARALLEL TO CROSSWALK, IF PRESENT. OTHERWISE, PLACE AT DESIRED STOPPING POINT, PARALLEL TO CROSSROAD CENTERLINE, WHERE POSSIBLE
PAINTED MEDIANS	2 @ 4 (100) WITH 12 (300) DIAGONALS @ 45°	SOLID	YELLOW; TWO WAY TRAFFIC WHITE; ONE WAY TRAFFIC	11 (280) C-C FOR THE DOUBLE LINE SEE TYPICAL PAINTED MEDIAN MARKING.
GORE MARKING AND CHANNELIZING LINES	8 (200) WITH 12 (300) DIAGONALS @ 45°	SOLID	WHITE	DIAGONALS: 15' (4.5 m) C-C (LESS THAN 30MPH (50 km/h)) 20' (6 m) C-C 30MPH (50 km/h) TO 45MPH (70 km/h) 30' (9 m) C-C (OVER 45MPH (70 km/h))
RAILROAD CROSSING	24 (600) TRANSVERSE LINES; "RR" 15 6' (1.8 m) LETTERS; 16 (400) LINE FOR "X"	SOLID	WHITE	SEE STATE STANDARD 780001 AREA OF: "R"=3.6 SQ. FT. (0.33 m ²) EACH "X"=54.0 SQ. FT. (5.0 m ²)
SHOULDER DIAGONALS	12 (300) @ 45°	SOLID	WHITE - RIGHT YELLOW - LEFT	50' (15 m) C-C (LESS THAN 30MPH (50 km/h)) 75' (25 m) C-C 30 MPH (50 km/h) TO 45MPH (70 km/h) 150' (45 m) C-C (OVER 45MPH (70 km/h))

FOR FURTHER DETAILS ON PAVEMENT MARKING REFER TO STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND STATE STANDARD 780001.

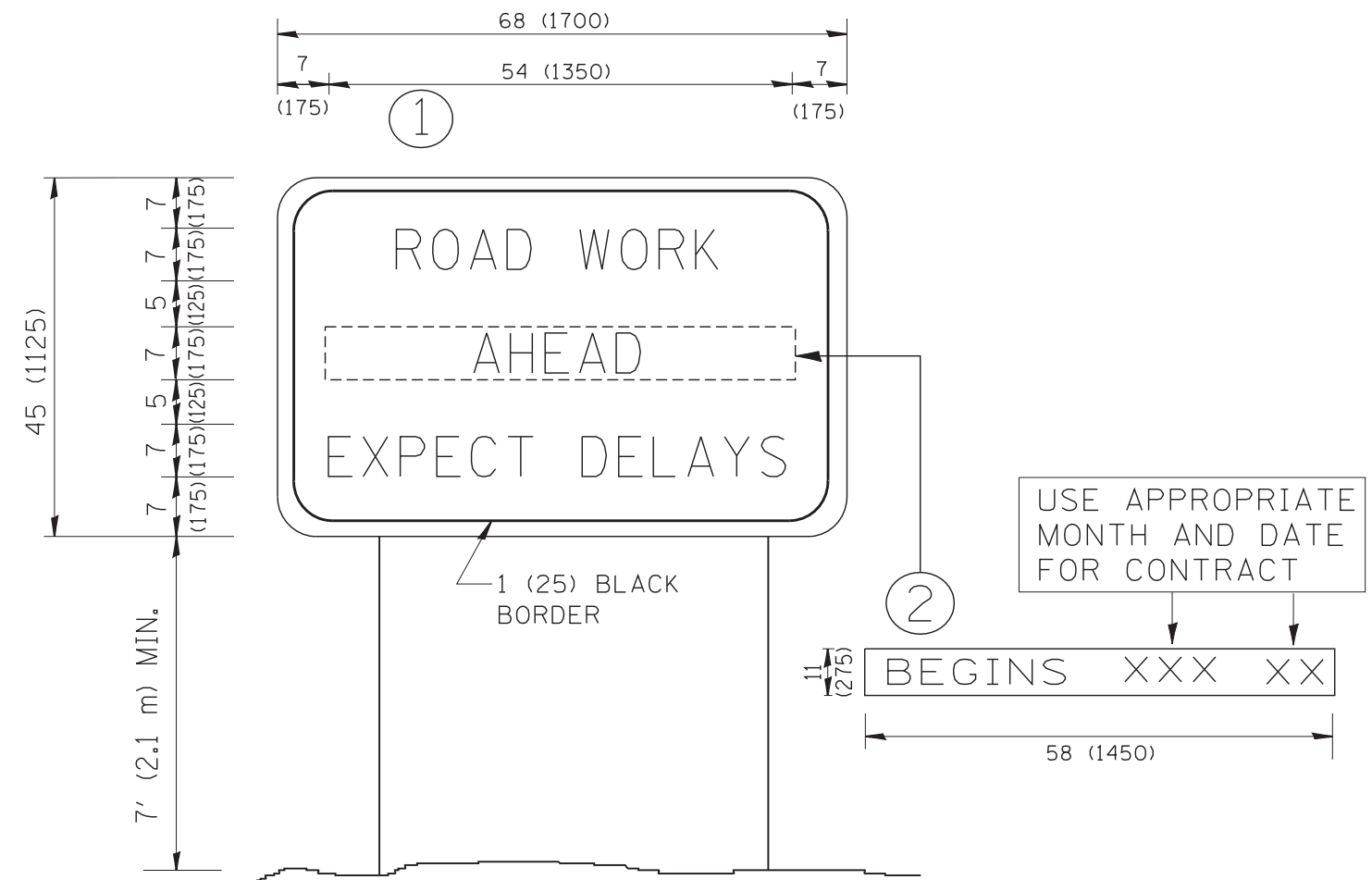
All dimensions are in inches (millimeters) unless otherwise shown.

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	PLOT SCALE = 50.000' / IN.	CHECKED -	REVISED -
	PLOT DATE = 9/9/2009	DATE - 03-19-90	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE		TOTAL SHEETS	
TYPICAL PAVEMENT MARKINGS		22	
SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.

F.A.U. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	0305-302K-1-5	COOK	23	22
TC-13		CONTRACT NO. 60P20		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



NOTES:

1. USE BLACK LETTERING ON ORANGE BACKGROUND.
2. ERECT SIGNS IN ADVANCE OF THE LOCATION FOR THE "ROAD CONSTRUCTION AHEAD" SIGN AT LOCATIONS AS DIRECTED BY THE ENGINEER.
3. ERECT SIGN ① WITH INSTALLED PANEL ② ONE WEEK PRIOR TO THE START OF CONSTRUCTION.
4. REMOVE PANEL ② SOON AFTER THE START OF CONSTRUCTION.
5. SEE SPECIAL PROVISION FOR "TEMPORARY INFORMATION SIGNING" FOR ADDITIONAL INFORMATION.
6. ONE SIGN ASSEMBLY EQUALS 25.70 SQ. FT. (2.3 SQ. M.)
7. SHALL BE PAID FOR AS TEMPORARY INFORMATION SIGNING.

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

* 2959 /2960

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	PLOT DATE = 1/4/2008	DATE -	REVISED - C. JUCIUS 01-31-07

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**ARTERIAL ROAD
INFORMATION SIGN**

SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	0305-302K-1-5	COOK	23	23
TC-22		CONTRACT NO. 60P20		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				