

04-26-13 LETTING ITEM 134

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

PLANS FOR PROPOSED
FEDERAL AID HIGHWAY

FAU ROUTE 2411 (WESTERN AVENUE)
FAP ROUTE 363 (FABYAN PARKWAY) TO FAU ROUTE 1670 (SOUTH STREET)
RESURFACING

SECTION NO. 12-00114-00-RS
PROJECT NO. M-4003(147)

CITY OF GENEVA
KANE COUNTY
JOB NO. C-91-162-13

LOCATION MAP (NOT TO SCALE) R-8E

FAU RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2411	12-00114-00-RS	KANE	11	1
FED. ROAD DIST. NO. C-91-162-13		ILLINOIS		
CONTRACT 63814		FED. AID PROJECT M-4003(147)		



SHEET INDEX

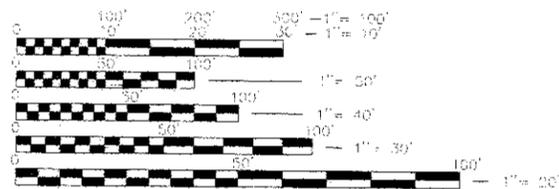
- SHEET 1. COVER SHEET, ROADWAY STANDARDS
- SHEET 2. GENERAL NOTES
- SHEET 3. SUMMARY OF QUANTITIES
- SHEET 4. HOT-MIX ASPHALT MIXTURE REQUIREMENT TABLE, SCHEDULE OF QUANTITIES
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- SHEET 6. GENERAL PLAN - STATION 0+00 TO 22+00
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- SHEET 10. TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS INTERSECTIONS, AND DRIVEWAYS
- SHEET 11. DISTRICT ONE TYPICAL PAVEMENT MARKINGS

ROADWAY STANDARDS

STANDARD NUMBER	DESCRIPTION
000001-06	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
424001-07	PERPENDICULAR CURB RAMPS FOR SIDEWALKS
424008-01	DIAGONAL CURB RAMPS FOR SIDEWALKS
424011-01	CORNER PARALLEL CURB RAMPS FOR SIDEWALKS
424016-01	MID-BLOCK CURB RAMPS FOR SIDEWALKS
424021-01	DEPRESSED CORNER FOR SIDEWALKS
606001-05	CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB AND GUTTER
701301-04	LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
701501-06	URBAN LANE CLOSURE, 2L, 2W, UNDIVIDED
701502-05	URBAN LANE CLOSURE, 2L, 2W, WITH BIDIRECTIONAL LEFT TURN LANE
701801-05	SIDEWALK, CORNER OR CROSSWALK CLOSURE
701901-02	TRAFFIC CONTROL DEVICES
780001-03	TYPICAL PAVEMENT MARKINGS

DESIGN DESIGNATION

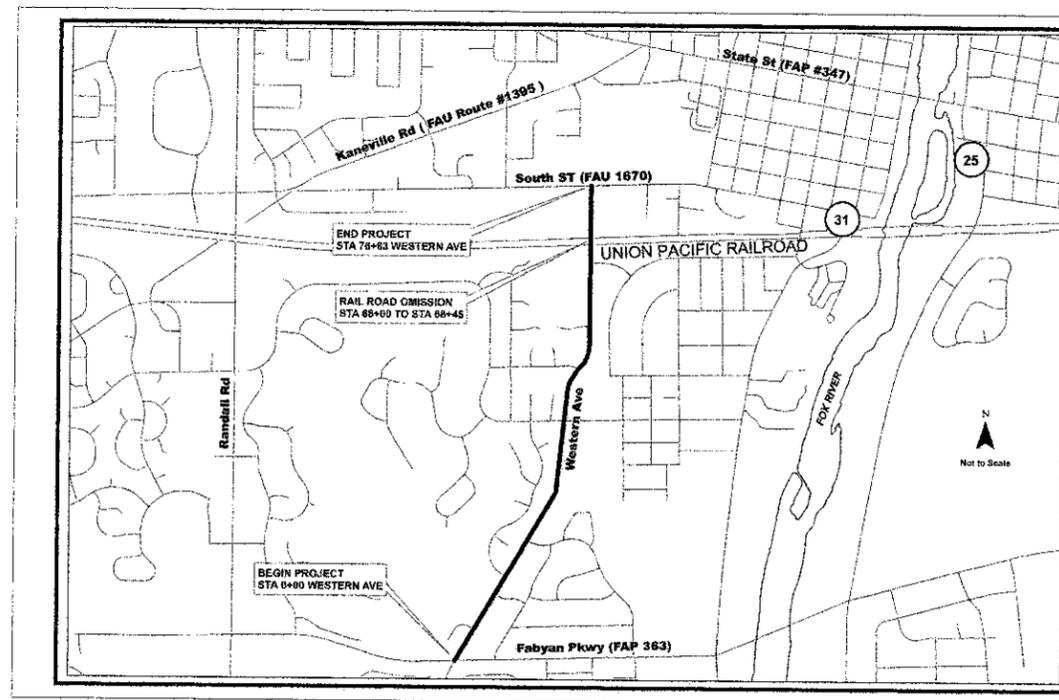
WESTERN AVE.: COLLECTOR
DESIGN SPEED = 30/35 MPH
POSTED SPEED = 30/35 MPH
ADT (2010) = 5300



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

CONTRACT NO. 63814



GENEVA TOWNSHIP, T-39N, R-8E, 3RD PM

GROSS LENGTH = 7,600 FT. = 1.4 MILE
NET LENGTH = 7,600 FT. = 1.4 MILE

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS	
APPROVED	February 4, 2013 <i>Daniel W. King</i> CITY OF GENEVA, DIRECTOR OF PUBLIC WORKS
PASSED	March 11, 2013 <i>C. H. H. C. H. H.</i> DISTRICT 1 ENGINEER OF LOCAL ROADS & STREETS
RELEASING FOR BID BASED ON LIMITED REVIEW	March 11, 2013 <i>John Fortman</i> DEPUTY DIRECTOR OF HIGHWAYS, REGION 1 ENGINEER

DATE	March 4, 2013
BY	<i>Pamela Broviak</i> Pamela Broviak, P.E.
LICENSE EXPIRES	11/30/2013
SEAL	

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OF THE STATE OF ILLINOIS

CITY OF GENEVA
1800 SOUTH STREET
GENEVA ILLINOIS 60134
PHONE: 630-232-1501/630-232-1502

PROGRAM AND OFFICE ENGINEER: CHARLES F. RIDDLE, P.E. (847) 705-4406, SCHLAUBURG, IL

GENERAL NOTES

1. THE CONTRACTOR SHALL PROTECT AND PRESERVE ALL SECTION OR SUBSECTION SURVEY MONUMENTS OR PROPERTY OR REFERENCE MARKERS UNTIL THE OWNER, HIS OR HER AGENT OR AN AUTHORIZED SURVEYOR HAS WITNESSED OR OTHERWISE REFERENCED THEIR LOCATIONS.

2. THE UNIT PRICE FOR ALL REMOVAL PAY ITEMS AND TEMPORARY RAMPS SHALL INCLUDE ALL REQUIRED SAW CUTS.

3. ALL WORK PERFORMED RELATIVE TO THIS IMPROVEMENT SHALL COMPLY WITH ALL APPLICABLE RULES AND REGULATIONS OF O.S.H.A.

4. CONTRACTOR SHALL PROVIDE AND INSTALL SAND BAGS, BARRICADES AND SIGNS AS LISTED IN THE CONTRACT DOCUMENTS. THESE ITEMS WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE CONSIDERED AS INCLUDED IN THE CONTRACT UNIT PRICE FOR THE TRAFFIC CONTROL AND PROTECTION ITEMS.

5. BEFORE STARTING ALL EXCAVATION, THE CONTRACTOR SHALL CALL "JULIE" AT 811 OR 800-892-0123 FOR FIELD LOCATIONS OF ALL BURIED UTILITIES: STORM, SANITARY, WATERMAIN, ELECTRIC, COMMUNICATION, AND GAS FACILITIES (48 HOUR NOTIFICATION IS REQUIRED).

6. BEFORE ANY WORK BEGINS THE CONTRACTOR SHALL CALL A JOINT MEET TO COORDINATE CONSTRUCTION ACTIVITIES WITH THE ENGINEER, UTILITY COMPANIES, AND THE CITY OF GENEVA.

7. 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 MILLED PAVEMENT IS SLOPED A MINIMUM 1:3 (V:H).

8. IF THE CONTRACTOR CHOOSES TO MILL THE PAVEMENT FULL DEPT AT THE POINT WHERE THE OLD AND NEW PAVEMENT ABUTS, TEMPORARY RAMPS WILL BE INSTALLED. HOWEVER THE CONTRACTOR HAS THE OPTION TO TAPER THE LAST FOUR FEET DURING THE MILLING PROCESS. THE TAPER SHALL BE REMOVED TO THE FULL DEPTH OF THE MILLING BEFORE THE SURFACE MATERIAL IS PLACED.

9. WHENEVER, DURING THE CONSTRUCTION OPERATIONS LOOSE MATERIAL IS DEPOSITED IN THE FLOW LINE OF THE CURB OR DRAINAGE STRUCTURES SUCH THAT THE NATURAL FLOW OF WATER IS OBSTRUCTED, IT SHALL BE REMOVED AT THE END OF THE DAY IF THERE IS NO RAIN IN THE FORECAST OR IF RAIN IS IN THE FORECAST, IT SHALL BE REMOVED IMMEDIATELY. AT THE CONCLUSION OF CONSTRUCTION OPERATIONS ALL DRAINAGE STRUCTURES SHALL BE FREE FROM DIRT AND CONSTRUCTION DEBRIS. THE WORK SPECIFIED ABOVE WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE CONSIDERED AS INCLUDED IN THE COST OF CONTRACT PAY ITEMS.

10. EXISTING PUBLIC AND PRIVATE UTILITIES ARE SHOWN ON THE PLANS ACCORDING TO INFORMATION OBTAINED FROM UTILITY COMPANIES, MUNICIPALITIES, AND SURVEYS. THE CONTRACTOR SHALL FAMILIARIZE HIMSELF WITH THE LOCATION OF ALL UTILITIES AND STRUCTURES THAT MAY BE FOUND IN THE VICINITY OF THE CONSTRUCTION. THE ACTUAL LOCATIONS AND/OR ELEVATIONS OF THE UTILITIES MAY BE DIFFERENT THAN INDICATED. IF ALLOWED BY THE OWNER OF THE UTILITY THE CONTRACTOR MAY MAKE REPAIRS IN A MANNER THAT IS ACCEPTABLE TO THE ENGINEER AND / OR THE OWNER OF THE UTILITY. THE CONTRACTOR SHALL NOTIFY ALL UTILITY COMPANIES OF HIS OR HER CONSTRUCTION SCHEDULE AND COORDINATE CONSTRUCTION OPERATIONS WITH THE UTILITY COMPANIES SO THE RELOCATION OF UTILITY LINES AND STRUCTURES MAY PROCEED IN AN ORDERLY MANNER. THIS WORK SHALL BE DONE IN ACCORDANCE WITH ARTICLES 105.07 AND 107.20.

11. DURING CONSTRUCTION, IF THE CONTRACTOR ENCOUNTERS OR OTHERWISE BECOMES AWARE OF ANY SEWER, UNDERDRAINS OR FIELD DRAINS WITHIN THE RIGHT-OF-WAY OTHER THAN THOSE SHOWN ON THE PLANS, HE OR SHE SHALL SO INFORM THE ENGINEER WHO SHALL DIRECT THE WORK NECESSARY TO MAINTAIN OR TO REPLACE THE FACILITIES IN SERVICE AND TO PROTECT THEM FROM DAMAGE DURING CONSTRUCTION IF IT IS TO BE MAINTAINED. THIS WORK IS IN ACCORDANCE WITH ARTICLE 105.07. EXISTING FACILITIES TO BE MAINTAINED THAT ARE DAMAGED BECAUSE OF NON-COMPLIANCE WITH THIS PROVISION SHALL BE REPLACED OR REPAIRED AT THE CONTRACTOR'S EXPENSE.

12. TYPICALLY WESTERN AVENUE SHALL REMAIN OPEN TO TRAFFIC. HOWEVER, IF IT EVER BECOMES NECESSARY TO CLOSE ONE LANE OF WESTERN AVENUE DUE TO THE CONSTRUCTION ACTIVITIES, THE CONTRACTOR SHALL MAINTAIN A MINIMUM OF ONE-WAY TRAFFIC DURING WORKING HOURS WITH THE USE OF SIGNS AND FLAGMEN AS SHOWN ON THE TRAFFIC CONTROL STANDARDS. TWO LANES OF TRAFFIC SHALL BE MAINTAINED AT ALL OTHER TIMES. ACCESS TO ALL ADJOINING PROPERTIES SHALL BE MAINTAINED AT ALL TIMES.

13. ANY SURPLUS EXCAVATED EARTH MATERIAL REMAINING AFTER THE COMPLETION OF WORK SHALL REMAIN WITHIN THE PROJECT LIMITS AND SHALL BE DEPOSITED AND RESTORED AS DIRECTED BY THE ENGINEER. NO EARTH MATERIAL SHALL BE REMOVED FROM THE JOBSITE. THE WORK SPECIFIED ABOVE WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE CONSIDERED AS INCLUDED IN THE COST OF CONTRACT PAY ITEMS. THE COMPENSATION SHALL NOT BE ALLOWED FOR RESTORATION OF DISTURBED AREAS OUTSIDE THE CONSTRUCTION LIMITS IF NOT APPROVED BY THE ENGINEER. IT SHALL BE MEASURED IN PLACE FOR PAYMENT USING AVERAGE DIMENSIONS. AFTER THE SOIL IS PLACED, THE SEED, FERTILIZER AND MULCH SHALL BE PLACED WITHIN 72 HOURS. THE CONTRACTOR SHALL MAINTAIN THE RESTORED AREAS WEED FREE UNTIL THE SEED AND MULCH IS PLACED. PRIOR TO SEEDING AND MULCHING IF WEEDS GERMINATE, IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO REMOVE THEM AND ANY OTHER DELETERIOUS MATERIAL PRIOR TO SEEDING AND MULCHING AS DIRECTED BY THE ENGINEER. THIS WORK IF IT BECOMES NECESSARY SHALL BE INCLUDED IN THE COST OF THE RESTORATION.

14. PRIOR TO APPLYING THE BITUMINOUS PRIME COAT AND/OR PAVING, THE ROADWAY SHALL BE CLEANED OF ALL DUST, DIRT, WEEDS AND OTHER HARMFUL OR DELETERIOUS MATERIALS. THE WORK TO REMOVE CHUNKS OF ASPHALT AND THE WINDROW OF MILLINGS LEFT BEHIND BY THE MILLING MACHINE SHALL BE DONE TO THE SATISFACTION OF THE ENGINEER. THIS WORK WILL BE INCLUDED IN THE PRICE OF THE ITEM HOT-MIX ASPHALT SURFACE REMOVAL, 3-1/2 INCHES.

15. THE CONTRACTOR WILL NOT BE ALLOWED ON ANY SIDE STREETS WITH LOADED CONSTRUCTION TRUCKS AND EQUIPMENT EXCEPT AT THE END OF THE WORK DAY FOR OVERNIGHT PARKING. THE EQUIPMENT SHALL THEN BE BARRICADED FOR SAFETY. THE COST ASSOCIATED WITH THIS IS INCLUDED IN TRAFFIC CONTROL AND PROTECTION. THE CONTRACTOR IS ALSO REQUIRED TO OBTAIN OVERWEIGHT PERMITS FROM THE CITY TO MOVE EQUIPMENT IN AND OUT OF TOWN. NO FEES WILL BE CHARGED BY THE CITY OF GENEVA FOR LOCAL ACCESS PERMITS ISSUED THAT ARE ASSOCIATED WITH THIS CONTRACT. FAILURE TO COMPLY WITH THE ABOVE MAY RESULT IN THE DRIVERS AND OPERATORS OF THESE VEHICLES BEING CITED BY THE GENEVA POLICE DEPARTMENT. PERMIT APPLICATIONS ARE AVAILABLE FROM CITY OF GENEVA, DEPARTMENT OF PUBLIC WORKS. THE CITY WILL ASSIGN THE ROUTE THAT THE CONTRACTOR IS ALLOWED DURING MOBILIZATION.

16. THE CONTRACTOR SHALL PROVIDE BUSINESSES, AND MOTORISTS TWENTY-FOUR (24) HOURS ADVANCE NOTICE OF PARKING RESTRICTIONS WITH APPROPRIATE SIGNS AND/OR BARRICADES PLACED. THESE SIGNS SHALL MEET THE APPROVAL OF THE ENGINEER. THE ENGINEER WILL SUPPLY THE CONTRACTOR WITH COPIES OF WRITTEN NOTICES FOR HIM TO DISTRIBUTE, EACH NOTICE SHALL BE A SINGLE USE. THE CONTRACTOR SHALL NOTIFY THE ENGINEER WHEN HE NEEDS ANOTHER NOTICE. AFTER THE CONTRACTOR HAS MOBILIZED AND AT LEAST TWO (2) DAYS BEFORE HE STARTS WORKING, HE SHALL HAND OUT THE FIRST NOTICE TO RESIDENTS AND BUSINESS OWNERS. LOCAL TRAFFIC, GARBAGE PICK-UP AND MAIL SERVICE SHALL BE MAINTAINED DURING THE WORK DAY. THE CONTRACTOR SHALL NOT CLOSE THE ROAD BEFORE HE INFORMS THE ENGINEER AND A DETOUR PLAN IS AGREED TO. IF EMERGENCY PERSONNEL HAVE TO BE CALLED TO THE WORK SITE OR IF DAMAGE WAS DONE TO ANY UTILITY THE ENGINEER SHALL BE IMMEDIATELY INFORMED. IN CASES WHERE A DRIVEWAY NEEDS TO BE CLOSED, THE ENGINEER, AND THE RESIDENTS SERVED BY THE DRIVEWAY SHALL BE NOTIFIED. IN NON-EMERGENCY SITUATIONS THIS NOTICE SHALL BE SENT AT LEAST TWENTY-FOUR (24) HOURS IN ADVANCE. IN CASES WHERE AN ELDERLY OR PHYSICALLY CHALLENGED PERSON NEEDS ACCESS, THE CONTRACTOR WILL IMMEDIATELY AFFORD INGRESS AND/OR EGRESS AND SHALL MAINTAIN THIS ACCESS OR FACILITATE THE RESIDENTS INGRESS AND/OR EGRESS AS NEEDED.

17. THE CITY OF GENEVA ADVISES THAT THE USE OF CITY WATER FROM A HYDRANT OR FROM THE WASTE WATER TREATMENT PLANT FOR THIS PROJECT WILL BE AT NO CHARGE TO THE CONTRACTOR. THE WATER USED FROM HYDRANTS SHALL BE METERED. THE CONTRACTOR SHALL OBTAIN A HYDRANT METER FROM THE CITY OF GENEVA'S, PUBLIC WORKS DEPARTMENT. USE OF A WATER HOSE LARGER THAN TWO (2") INCHES SHALL ONLY BE CONNECTED ONTO HYDRANTS AT THE PUBLIC WORKS FACILITY AT 1800 SOUTH STREET. THIS WATER CAN THEN BE TRUCKED TO THE LOCATION WHERE IT WILL BE USED. THE CONTRACTOR WILL BE ALLOWED UP TO A TWO (2") INCH WATER HOSE ON HYDRANT(S) SPECIFIED BY THE ENGINEER. A DEPOSIT IS REQUIRED FOR ALL METERS: \$1,000.00 FOR TWO (2") INCHES AND ABOVE AND \$200.00 FOR METERS SMALLER THAN TWO (2") INCHES. IF THE CONTRACTOR USES THE WATER WITHIN THE GUIDELINES SPECIFIED ABOVE AND RETURNS THE METER UNDAMAGED THE DEPOSIT SHALL BE REFUNDED. THE CONTRACTOR OR SUBCONTRACTOR MAY TRUCK IN WATER AT HIS OWN EXPENSE FOR ANY AND ALL USE IN THIS PROJECT. IF WATER IS TRUCKED IN, THE SOURCE OF THE WATER MUST BE DISCLOSED AND VERIFIED TO THE ENGINEER. DURING PERIODS OF HIGH DEMAND FOR POTABLE WATER OR AT OTHER TIMES THE ENGINEER MAY DIRECT TO CONTRACTOR TO USE GRAY WATER FROM THE WASTE WATER TREATMENT PLANT.

18. DETECTABLE WARNINGS SHALL BE PLACED AS DIRECTED BY THE ENGINEER. DETECTABLE WARNINGS SHALL MEET THE REQUIREMENTS OF THE STATE OF ILLINOIS, THE AMERICAN WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES (ADAAG), AND/OR OTHER ACCEPTED ACCESSIBILITY GUIDELINES, AND APPLICABLE STANDARDS AS SPECIFIED ON PAGE #1 OF THE PLAN SET. THEY SHALL BE INSTALLED ACCORDING TO SECTION 424 OF THE STANDARD SPECIFICATIONS (SEE ARTICLE 424.09). ALL DETECTABLE WARNINGS SHALL BE CONSTRUCTED OF METAL AND SHALL BE MANUFACTURED BY EAST JORDAN OR NEENAH OR AN APPROVED EQUAL. THE DETECTABLE WARNINGS USED ON THIS PROJECT SHALL HAVE THE FOLLOWING CERTIFICATIONS AND SHALL BE APPROVED BY THE ENGINEER PRIOR TO USE.

- a) MANUFACTURER'S CERTIFICATION STATING THE ACCESSABILITY GUIDELINES WITH WHICH IT IS IN COMPLIANCE.
 - b) MANUFACTURER'S 5 YEAR WARRANTY.
 - c) MANUFACTURER'S SPECIFICATIONS STATING THE REQUIRED MATERIALS, EQUIPMENT, AND INSTALLATION PROCEDURES WHICH THE CONTRACTOR SHALL ADHERE TO.
- PAYMENT FOR DETECTABLE WARNINGS WILL BE IN ADDITION TO THE SQUARE FOOTAGE OF THE SIDEWALK UNDERNEATH THE PANEL.

19. IF GRANULAR MATERIAL IS NEEDED FOR RE-GRADING ROADWAY, BELOW SIDEWALKS, DRIVEWAYS, AND CURB, RECYCLED MATERIAL WITH THE CORRECT GRADATION, FROM AN APPROVED SOURCE WILL BE ALLOWED.

20. THE CONTRACTOR SHALL PROTECT THE PARKWAY GRASS FROM PERMANENT DAMAGE AND RUTTING WHILE REMOVING AND REPLACING THE SIDEWALK. ALL SPOILS SHALL BE LOADED ONTO A TRUCK AS IT IS BEING REMOVED AND SHALL NOT BE STOCK PILED ON THE ROADWAY.

21. IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PROTECT THE NEW CONCRETE FROM THE WEATHER AND FROM BEING DEFACED. ANY SECTION OF NEW CONCRETE THAT IS DEEMED UNACCEPTABLE BY THE ENGINEER SHALL BE REMOVED, DISPOSED OF, AND REPLACED AT THE CONTRACTOR'S EXPENSE.

22. PAVEMENT MARKINGS SHALL BE PLACED WITHIN 48 HOURS OF PLACEMENT OF THE FINAL BITUMINOUS SURFACE PAVEMENT.

23. ADJUSTMENTS OF DRAINAGE STRUCTURES IN THE CURB MIGHT REQUIRE THE REMOVAL OF AN AREA OF PAVEMENT IN FRONT OF THE STRUCTURE FOR A WIDTH OF APPROXIMATELY ONE FOOT. THIS AREA OF REMOVAL SHALL BE FILLED WITH CONCRETE DURING THE PLACEMENT OF THE ADJACENT CURB TO A LEVEL LYING 3.5 INCHES BELOW THE EDGE OF PAVEMENT. THE WORK SPECIFIED ABOVE WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE CONSIDERED AS INCLUDED IN THE COST OF CONTRACT PAY ITEMS.

24. IT IS THE CONTRACTOR'S SOLE RESPONSIBILITY TO COORDINATE WITH THE UNION PACIFIC RAILROAD WHENEVER CONSTRUCTION ACTIVITY IS WITHIN 25 FEET OF THE RAILROAD ROW. THE CONTRACTOR SHALL RETAIN FLAGMEN EMPLOYED AND DESIGNATED BY THE UNION PACIFIC RAILROAD TO MONITOR ON-COMING TRAIN TRAFFIC, AND ADVISE CONTRACTOR PERSONNEL WHEN ACTIVITY ON OR NEAR THE RAILROAD RIGHT-OF-WAY MAY PROCEED. THIS ITEM WILL BE PAID FOR ACCORDING TO ARTICLE 107.12 AND WILL BE REIMBURSED ACCORDING TO ARTICLE 109.05.

COMMITMENTS

BECAUSE A PORTION OF THE PROJECT IS LOCATED WITHIN A SCHOOL ZONE, ALL WORK, WITH THE EXCEPTION OF RESTORATION OF THE PARKWAY, SHALL BE PERFORMED BETWEEN JUNE 10, 2013, AND AUGUST 15, 2013, UNLESS APPROVED OTHERWISE BY THE ENGINEER.

CITY OF GENEVA
KANE COUNTY, ILLINOIS

DESIGNED	—	PB	REVISED	—
DRAWN	—	HL PM	REVISED	—
CHECKED	—	PB	REVISED	—
DATE	—	DEC. 2012	REVISED	—

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
WESTERN AVE RESURFACING

GENERAL NOTES

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2411	12-00114-00-RS	KANE	11	2
FED. ROAD DIST. NO. C-91-162-13		CONTRACT NO. 63814		
ILLINOIS		FED. AID PROJECT M-4003(147)		

SCALE:	NTS	JOB NO.	C-91-162-13
		STA.	TO STA.

SUMMARY OF QUANTITIES

			CONSTRUCTION TYPE CODE
			0005
CODE NUMBER	ITEM	UNIT	QUANTITY
20200100	EARTH EXCAVATION	CU YD	10
25000100	SEEDING, CLASS 1	ACRE	0.011
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	0.94
25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	0.94
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	0.94
25100125	MULCH, METHOD 3	ACRE	0.011
31101100	SUBBASE GRANULAR MATERIAL, TYPE B	CU YD	10
35800200	AGGREGATE BASE REPAIR	TON	10
40600100	BITUMINOUS MATERIAL (PRIME COAT)	GALLON	2220
40600300	AGGREGATE (PRIME COAT)	TON	55
40600400	MIXTURE FOR CRACKS, JOINTS, AND FLANGEWAYS	TON	8
40600895	CONSTRUCTING TEST STRIP	EACH	1
40603080	HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50	TON	3500
40603335	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50	TON	2340
42400200	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH	SQ FT	1485
42400800	DETECTABLE WARNINGS	SQ FT	242
44000163	HOT-MIX ASPHALT SURFACE REMOVAL, 3 1/2"	SQ YD	27700
44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	530
44000600	SIDEWALK REMOVAL	SQ FT	1515
60603800	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12	FOOT	530
67100100	MOBILIZATION	L SUM	1
70102620	TRAFFIC CONTROL AND PROTECTION, STANDARD 701501	L SUM	1
70102622	TRAFFIC CONTROL AND PROTECTION, STANDARD 701502	L SUM	1
70102640	TRAFFIC CONTROL AND PROTECTION, STANDARD 701801	L SUM	1
* 78009000	MODIFIED URETHANE PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	280
* 78009004	MODIFIED URETHANE PAVEMENT MARKING - LINE 4"	FOOT	14925
* 78009006	MODIFIED URETHANE PAVEMENT MARKING - LINE 6"	FOOT	1096
* 78009012	MODIFIED URETHANE PAVEMENT MARKING - LINE 12"	FOOT	2068
* 78009024	MODIFIED URETHANE PAVEMENT MARKING - LINE 24"	FOOT	270
X0324942	GROUT REMOVAL AND REPLACEMENT	EACH	26
Z0017400	DRAINAGE & UTILITY STRUCTURES TO BE ADJUSTED	EACH	29
Z0048665	RAILROAD PROTECTIVE LIABILITY INSURANCE	L SUM	1

* INDICATES SPECIALTY ITEMS

CITY OF GENEVA
KANE COUNTY, ILLINOIS

DESIGNED -- PB	REVISED --
DRAWN -- HL PM	REVISED --
CHECKED -- PB	REVISED --
DATE -- DEC. 2012	REVISED --

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
WESTERN AVE RESURFACING

SUMMARY OF QUANTITIES	
SCALE: H 1" = 10'	JOB NO. C-91-162-13
	STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEET SHEETS NO.
2411	12-00114-00-R5	KANE	1/1
FED. ROAD DIST. NO. C-91-162-13		CONTRACT NO. 63814	
ILLINOIS		FED. AID PROJECT M-4003(147)	

CURB, SIDEWALK, AND DRAINAGE STRUCTURE SCHEDULE

LOCATION	SUGGESTED STANDARD NO.	COMB CURB & GUTTER REM	CC&G TYPE B-6.12	SIDEWALK REM	PCC SIDEWALK 5"	DETECTABLE WARNING	DRAINAGE STRUCTURE ADJUSTMENT	GROUT REMOVAL & REPLACE	SEEDING	NIT FERT NUT	POT FERT NUT	PHOS FERT NUT	MULCH
		FOOT	FOOT	SQ FT	SQ FT	SQ FT	EACH	EACH	ACRE	LB	LB	LB	SQ YD
2+05 LT & RT		10	10				2						
SW Quad - Belter Ct	424001-07	20	20	120	120	20			0.0007	0.06	0.06	0.06	3
NW Quad - Belter Ct	424001-07	20	20	120	120	20			0.0007	0.06	0.06	0.06	3
8+03 LT & RT								2					
SW Quad - Redwing Dr	424016-01	10	10	50	50	8			0.0005	0.04	0.04	0.04	2
SE Quad - Redwing Dr	424021-01	20	20	90	90	20			0.0006	0.05	0.05	0.05	3
NE Quad - Redwing Dr	424001-07	10	10	60	60	8			0.0007	0.06	0.06	0.06	3
11+98 LT								1					
SW Quad - Eaglebrook	424001-07	20	20	150	150	20			0.0007	0.06	0.06	0.06	3
NW Quad - Eaglebrook	424001-07	20	20	150	150	20			0.0007	0.06	0.06	0.06	3
15+28 LT								1					
16+54 LT								1					
16+54 RT		10	10				1						
19+04 LT								1					
19+04 RT		10	10				1						
SW Quad - Allen Dr	424016-01	10	10	50	50	8			0.0005	0.04	0.04	0.04	2
SE Quad - Allen Dr	424021-01	10	10	70	70	16			0.0005	0.04	0.04	0.04	2
NE Quad - Allen Dr	424001-07	10	10	50	50	8			0.0005	0.04	0.04	0.04	2
21+52 LT								1					
21+56 RT		10	10				1						
23+03 LT								1					
24+03 RT		10	10				1						
28+84 LT & RT								2					
30+17 LT & RT		20	20				2						
34+57 LT & RT								2					
35+97 RT								1					
37+06 LT & RT		20	20				2						
39+65 LT		10	10				1						
39+80 RT		10	10				1						
SE Quad - Fargo	424021-01	30	30	100	100	30			0.0006	0.05	0.05	0.05	3
NE Quad - Fargo	424021-01	30	30	155	155	40			0.0009	0.08	0.08	0.08	4
40+71 RT		10	10				1						
42+42 LT								1					
42+42 RT		10	10				1						
43+99 LT		10	10				1						
45+94 LT		10	10				1						
45+94 RT								1					
48+32 RT								1					
50+77 LT								1					
50+77 RT		10	10				1						
53+20 LT		10	10				1						
53+37 LT								1					
53+87 RT		10	10				1						
55+37 RT								1					
59+12 LT		10	10				1						
59+12 RT								1					
61+70 LT								1					
61+70 RT		10	10				1						
64+23 LT								1					
64+23 RT		10	10				1						
64+92 LT								1					
NW Quad - Cheever	424016-01	20	20	140	140	8			0.0009	0.08	0.08	0.08	4
65+47 LT		10	10				1						
68+47 RT		10	10				1						
69+20 LT & RT		20	20				2						
71+20 LT & RT								2					
75+74 LT & RT		20	20				2						
76+37 RT		10	10				1						
76+45 LT								1					
SW Quad - South	424001-07	10	10	60	60	8			0.0006	0.05	0.05	0.05	3
SE Quad - South	424001-07	10	10	150	120	8			0.002	0.17	0.17	0.17	9
TOTAL		530	530	1515	1485	242	29	26	0.0111	0.94	0.94	0.94	49

PAVEMENT MARKING SCHEDULE

STA. TO STA.	DESCRIPTION	MODIFIED URETHANE PAVEMENT MARKING					
		4"	6"	12"	12"	24"	LTR & SYM
		YELLOW FOOT	WHITE FOOT	WHITE FOOT	YELLOW FOOT	WHITE FOOT	SQ FT
0+70 - 5+20	Fabyan Pkwy to Belter Ct	890	156		68	28	20.6
5+42 - 5+82	Belter Ct Intersection			70		14	
5+05 - 11+00	Belter Ct to Redwing Dr	990					
11+40 - 11+95	Redwing Dr Intersection			222		18	
12+20 - 14+40	Redwing Dr to Eaglebrook	440					
14+62 - 15+02	Eaglebrook intersection			70		15	
15+25 - 20+50	Eaglebrook to Allen Dr	1050					
20+85 to 21+35	Allen Dr Intersection			222		18	
21+60 - 27+95	Allen Dr to Western School	1190					
27+95 - 40+00	Western School to Fargo	3360	432	120	346	23	61.8
40+00 - 40+60	Fargo Intersection			165		30	
40+60 - 44+00	Fargo to Country Squire	2070	132	250	68	25	20.6
44+00 - 49+00	Country Squire Intersection			120			
49+00 - 55+20	Country Squire to Sherman	1240					
55+95 - 64+80	Sherman to Cheever	1770					
64+80 - 65+40	Cheever Intersection			120			
65+40 - 66+45	Cheever to Railroad	210	60	120			20.6
66+45 - 69+45	Railroad	610	100	69	38	76	115.2
69+45 - 72+00	Railroad to South	1105	216			23	41.2
TOTAL		14925	1096	1548	520	270	280

CONTRACTOR SHALL MILL BEFORE PATCHING

HOT-MIX ASPHALT MIXTURE REQUIREMENTS	
MIXTURE TYPE	AIR VOIDS @ Ndes
ROADWAY	
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50 (IL 9.5 mm), 1½"	4% @ 50 Gyr.
HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50, 2½"	4% @ 50 Gyr.
DRIVEWAY	
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50 (IL 9.5 mm), 3"	4% @ 50 Gyr.

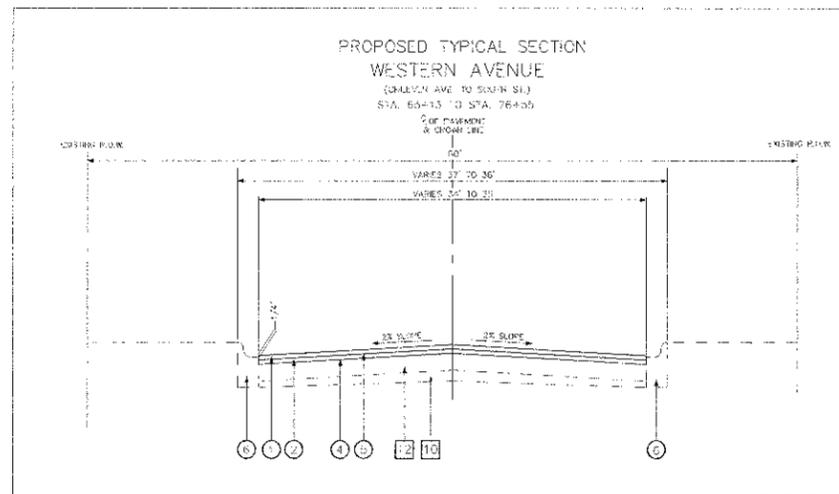
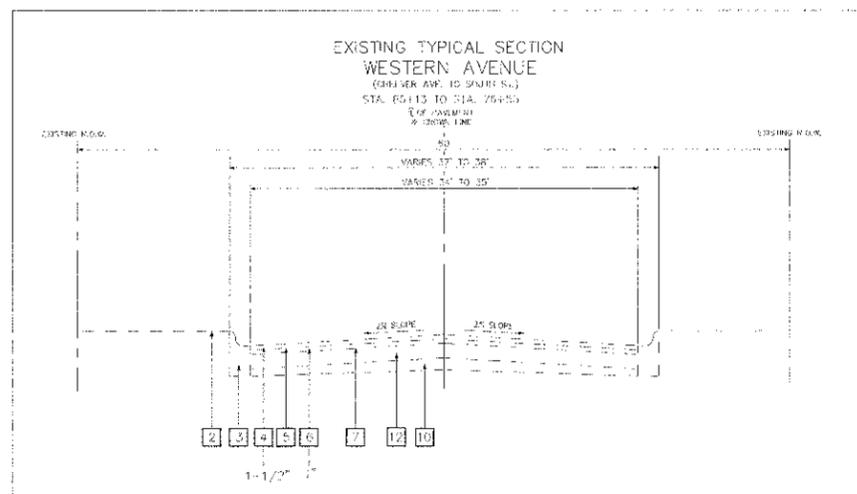
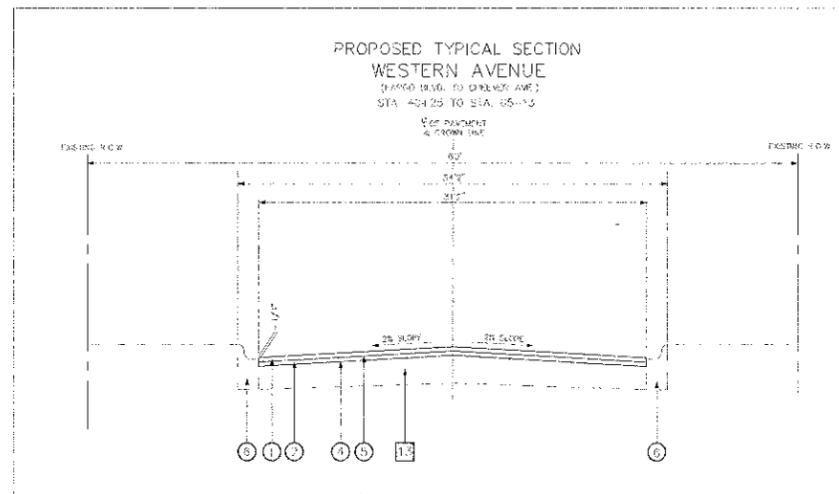
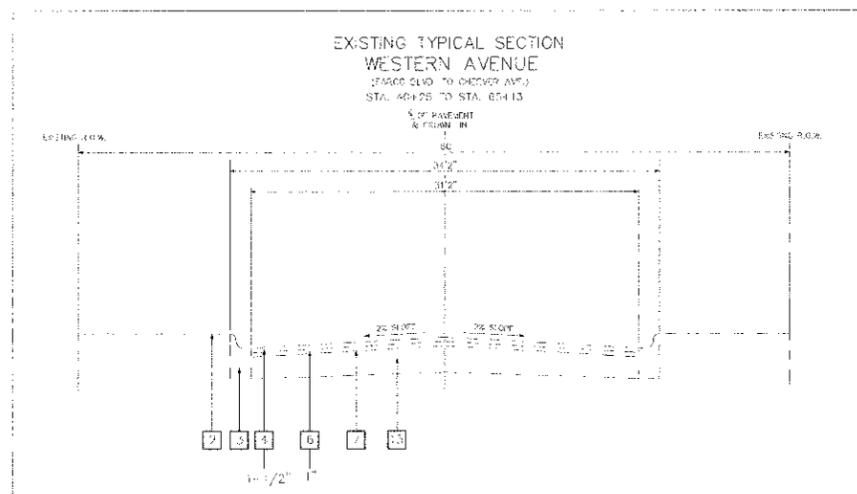
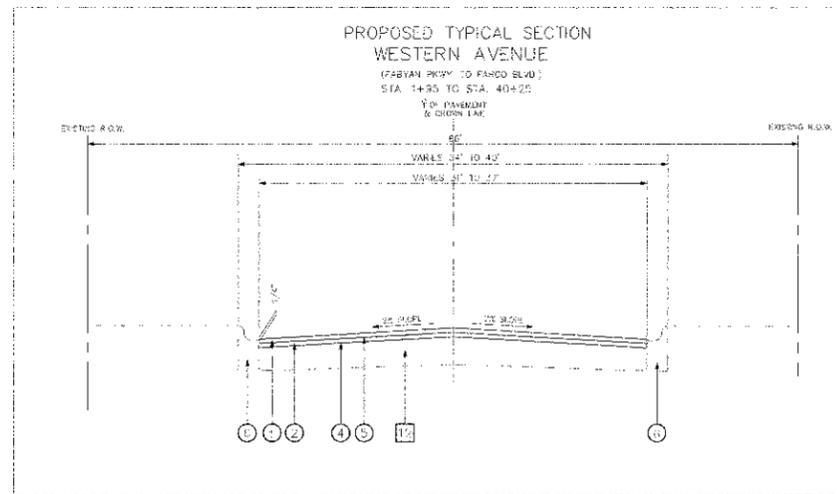
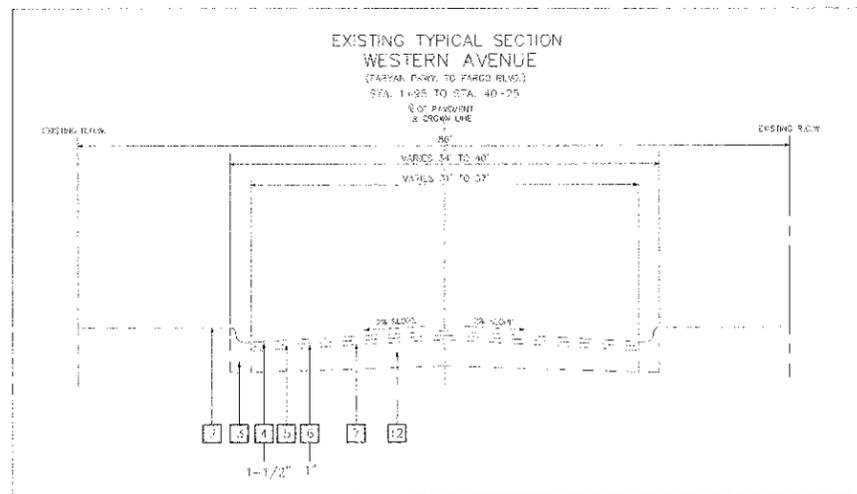
THE UNIT WEIGHT USED TO CALCULATE ALL HMA SURFACE MIXTURE QUANTITIES IS 112 LBS/SQ YD/IN.
 THE "AC TYPE" FOR POLYMERIZED HMA MIXES SHALL BE "SBS/SBR PG 76-22" AND FOR NON-POLYMERIZED HMA
 THE "AC TYPE" SHALL BE "PG 64-22" UNLESS MODIFIED BY DISTRICT ONE SPECIAL PROVISIONS
 FOR "PERCENT OF RAP" SEE SPECIAL PROVISIONS

CITY OF GENEVA
KANE COUNTY, ILLINOIS

DESIGNED -- PB	REVISED --
DRAWN -- HL PM	REVISED --
CHECKED -- PB	REVISED --
DATE -- DEC. 2012	REVISED --

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
WESTERN AVE RESURFACING

SCHEDULE OF QUANTITIES, HOT-MIX ASPHALT MIXTURE REQUIREMENTS	F.A.J. RTE. 2411	SECTION 12-00114-00-RS	COUNTY KANE	TOTAL SHEETS 11	SHEET NO. 4
SCALE: NTS	JOB NO. C-91-162-13	FED. ROAD DIST. NO. C-91-162-13	CONTRACT NO. 63814	FED. AID PROJECT M-4003(147)	
	STA. TO STA.				



EXISTING TYPICAL SECTION LEGEND

- 1 PCC SIDEWALK
- 2 GRASS PARKWAY VARIABLE WIDTH
- 3 COMBINATION CONCRETE CURB & GUTTER, BS.12
- 4 HMA SURFACE COURSE - SEE TYPICAL FOR THICKNESS
- 5 REFLECTIVE CRACK CONTROL TREATMENT SYSTEM "A"
- 6 HMA BINDER COURSE - SEE TYPICAL FOR THICKNESS
- 7 BITUMINOUS PRIME COAT & AGGREGATE PRIME COAT
- 8 7" TO 8" CEMENT AGGREGATE BASE COURSE
- 9 PCC OR BITUMINOUS DRIVEWAY PAVEMENT
- 10 AGGREGATE BASE
- 11 CULVERT PIPE UNDER DRIVEWAY
- 12 10" - 12" HMA BASE
- 13 7" RAN BASE

PROPOSED TYPICAL SECTION LEGEND

- 1 1 1/2" HMA SURFACE COURSE, 11X 10", NSC (IL-0.6cm)
- 2 2.25" HMA BINDER COURSE, 11-19.0, NSC
- 3 PCC DRIVEWAY PAVEMENT, 7 INCH
- 4 BITUMINOUS AND AGGREGATE PRIME COAT
- 5 HMA SURFACE REMOVAL, 1 1/2"
- 6 CURB REMOVAL & REPLACEMENT (MINOR)

CITY OF GENEVA
KANE COUNTY, ILLINOIS

DESIGNED — PB
DRAWN — HL PM
CHECKED — PB
DATE — DEC. 2012

REVISED —
REVISED —
REVISED —
REVISED —

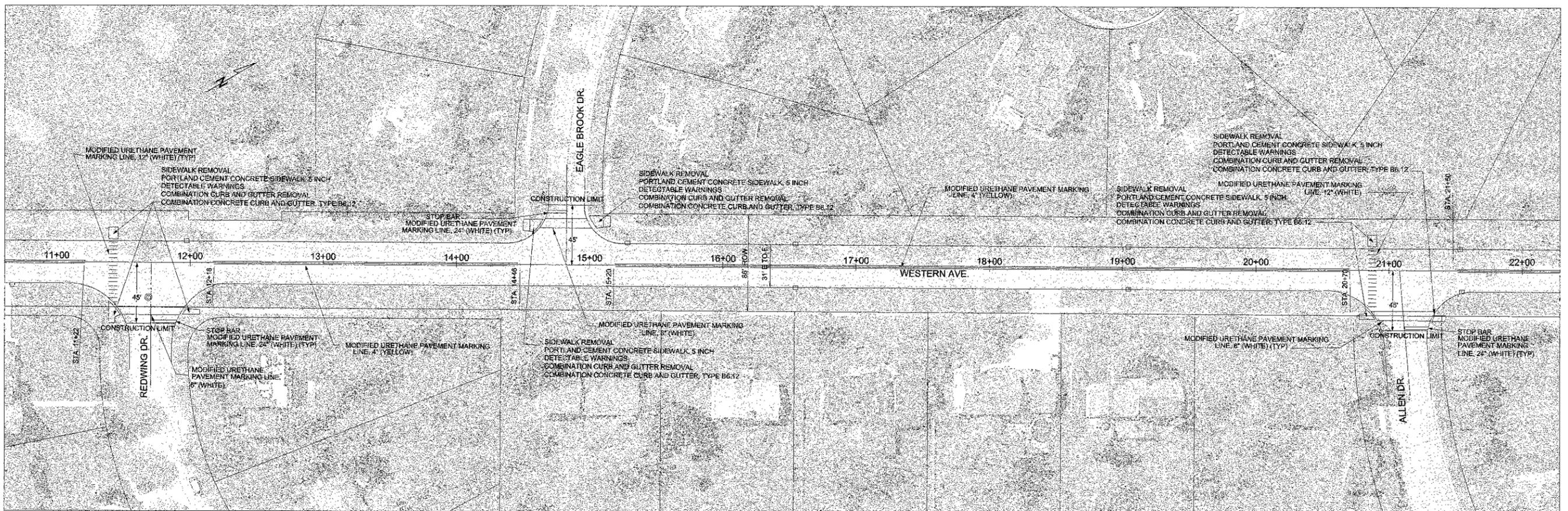
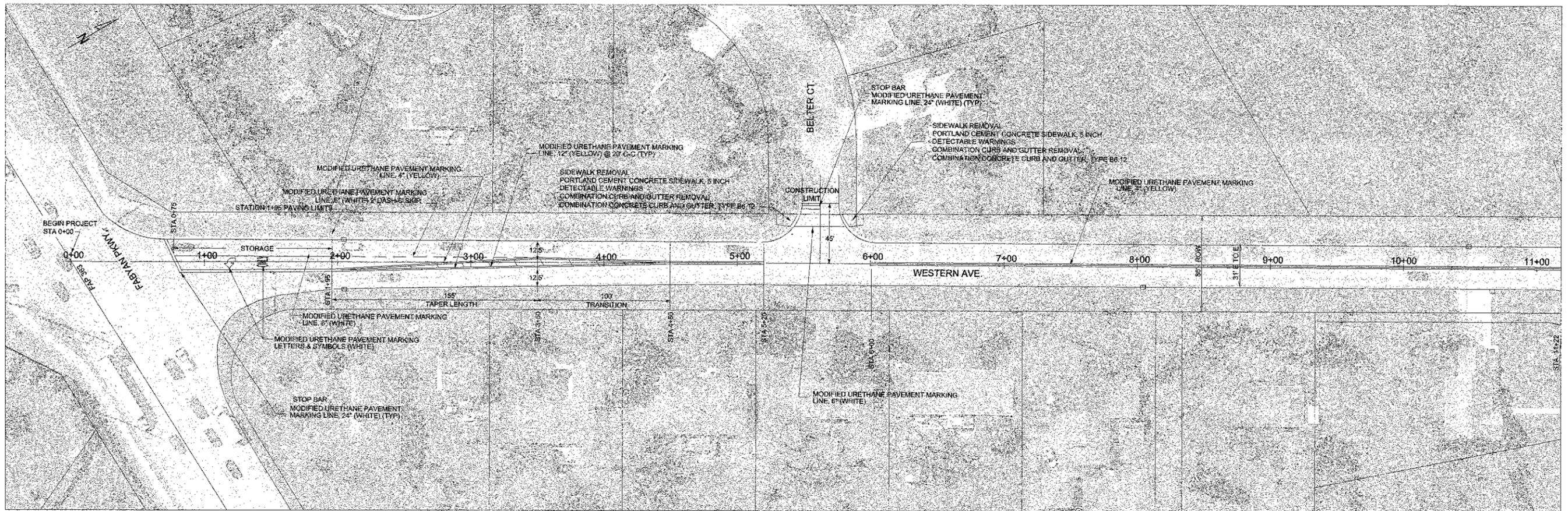
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
WESTERN AVE RESURFACING

TYPICAL SECTIONS

SCALE: VTS

JOB NO. C-91-162-13
STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2411	12-00114-00-RS	KANE	11	5
FED. ROAD DIST. NO. C-91-162-13		CONTRACT NO. 63814		
ILLINOIS		FED. AID PROJECT		M-4093(147)



CITY OF GENEVA
KANE COUNTY, ILLINOIS

DESIGNED -- PB	REVISED --
DRAWN -- HL PM	REVISED --
CHECKED -- PB	REVISED --
DATE -- DEC. 2012	REVISED --

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
WESTERN AVE RESURFACING

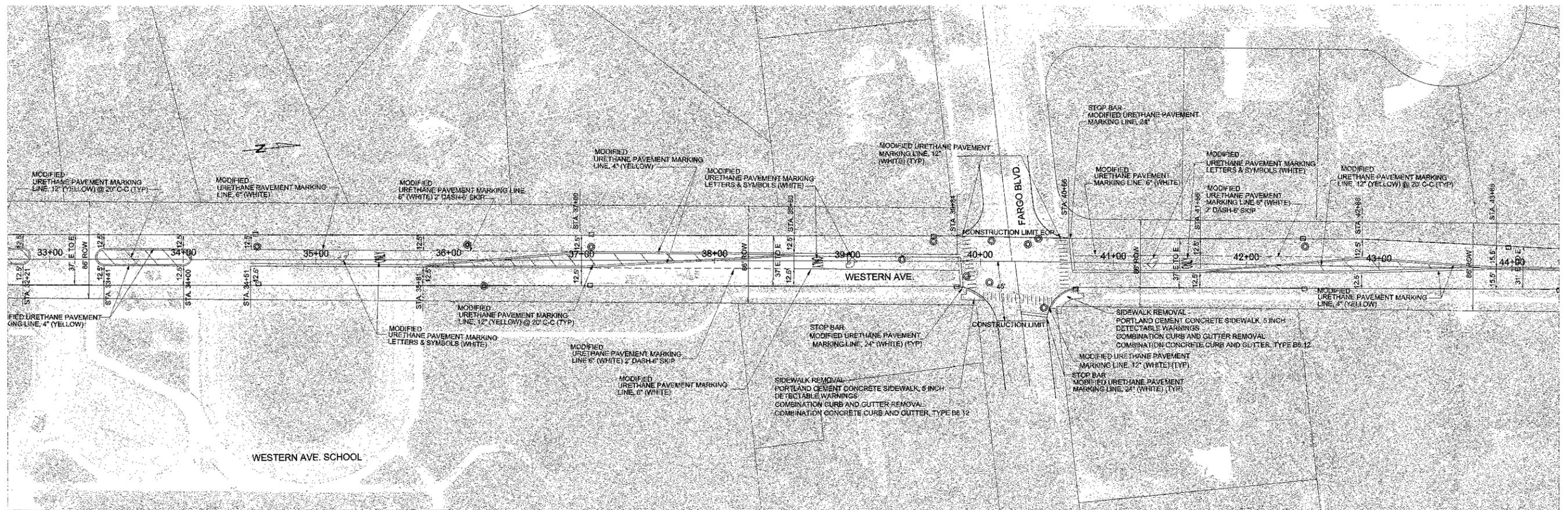
WESTERN PLAN - STATION 0+00 TO 22+00

SCALE: 1"=40'

JOB NO. C-91-162-13
STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2411	12-00114-00-RS	KANE	11	6
ILLINOIS		FED. AID PROJECT M-4003(147)		

CONTRACT NO. 63814



CITY OF GENEVA
KANE COUNTY, ILLINOIS

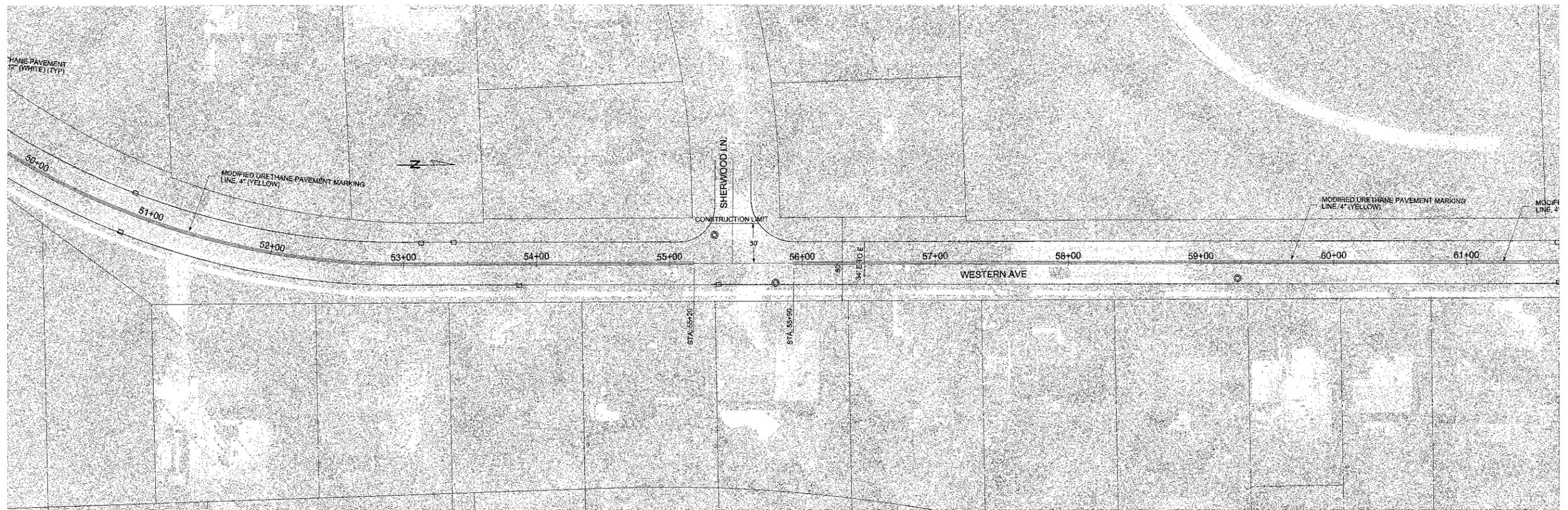
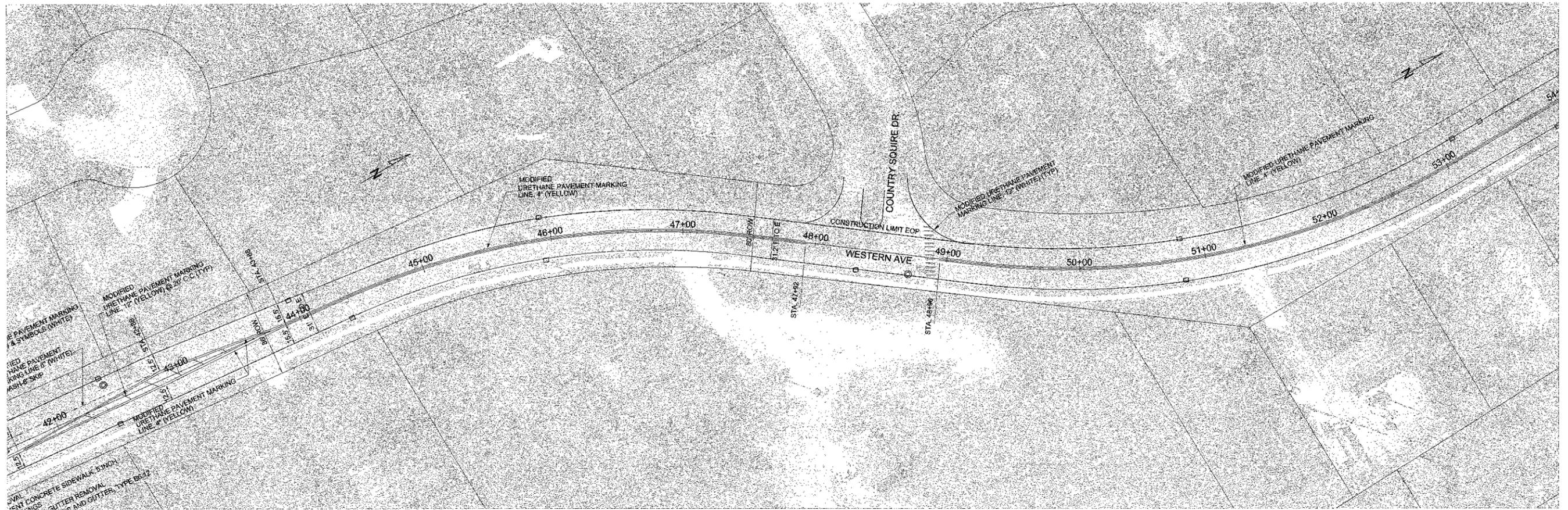
DESIGNED	— P3	REVISED	—
DRAWN	— h PM	REVISED	—
CHECKED	— PR	REVISED	—
DATE	— DEC. 2017	REVISED	—

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
WESTERN AVE RESURFACING

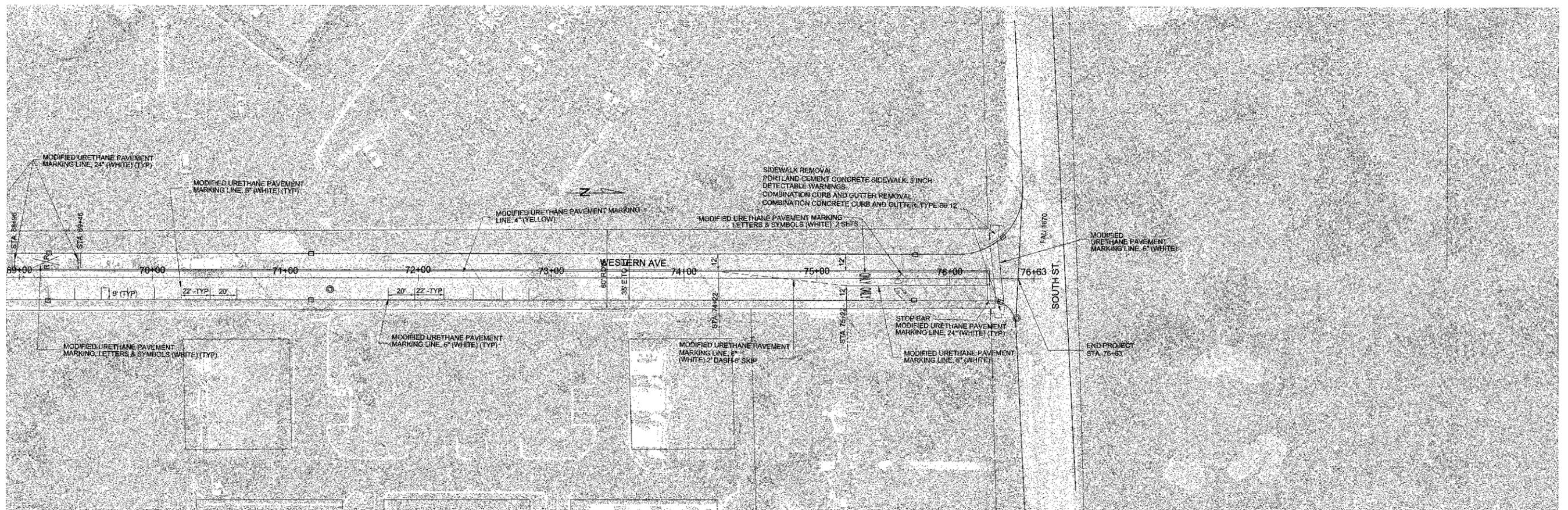
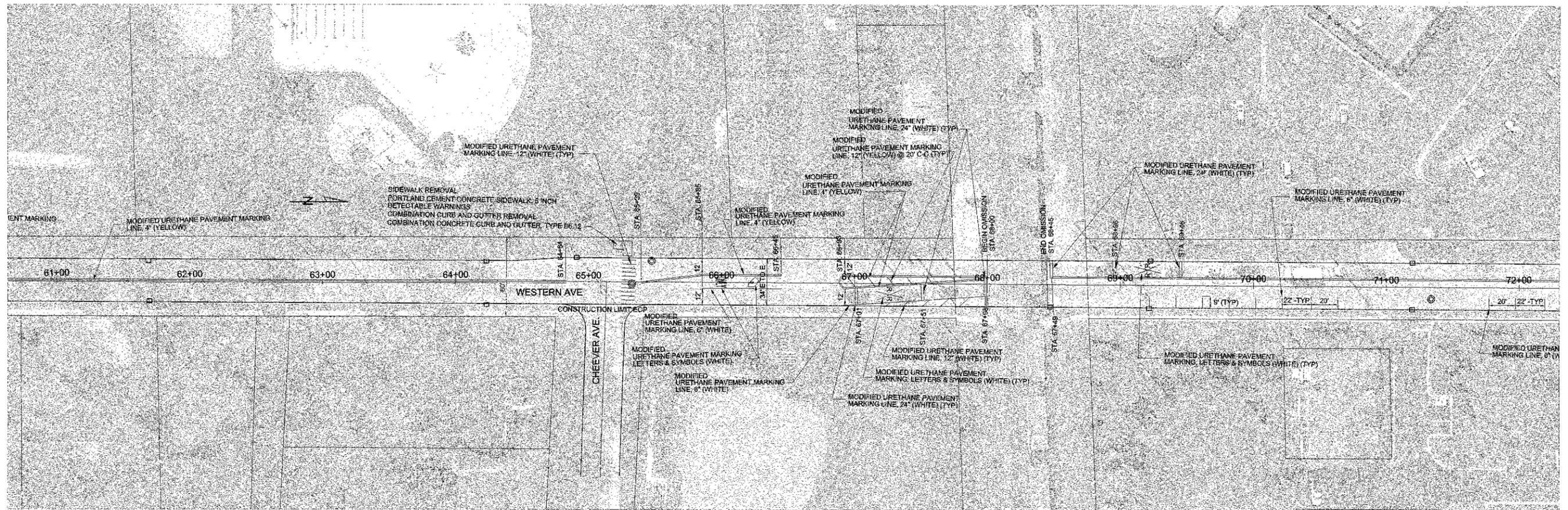
WESTERN PLAN - STATION 22+00 TO 44+00
SCALE: 1"=40'

F.A.U. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2-11	12-00114-00-15	KANE	11	7
FED. ROAD DIST. NO. C-9-182-13		CONTRACT NO. 63814		
ILLINOIS		FED. AID PROJECT M-600(147)		

JOB NO. C-9-182-13
STA. TO STA.



CITY OF GENEVA KANE COUNTY, ILLINOIS	DESIGNED — PB	REVISED —	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION WESTERN AVE RESURFACING	WESTERN PLAN — STATION 44+00 TO 61+00		F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	DRAWN — PL/PM	REVISED —		SCALE: 1"=40'	JOB NO. C-91-182-13	2431	12-00-114-00-115	XANE	11	8
	CHECKED — PB	REVISED —		STA.	TO STA.	FED. ROAD DIST. NO. C-91-152-13		CONTRACT NO. 63814		
	DATE — J.L.C. 2/12	REVISED —				ILLINOIS		FED. AID PROJECT 31-4103(147)		



CITY OF GENEVA
KANE COUNTY, ILLINOIS

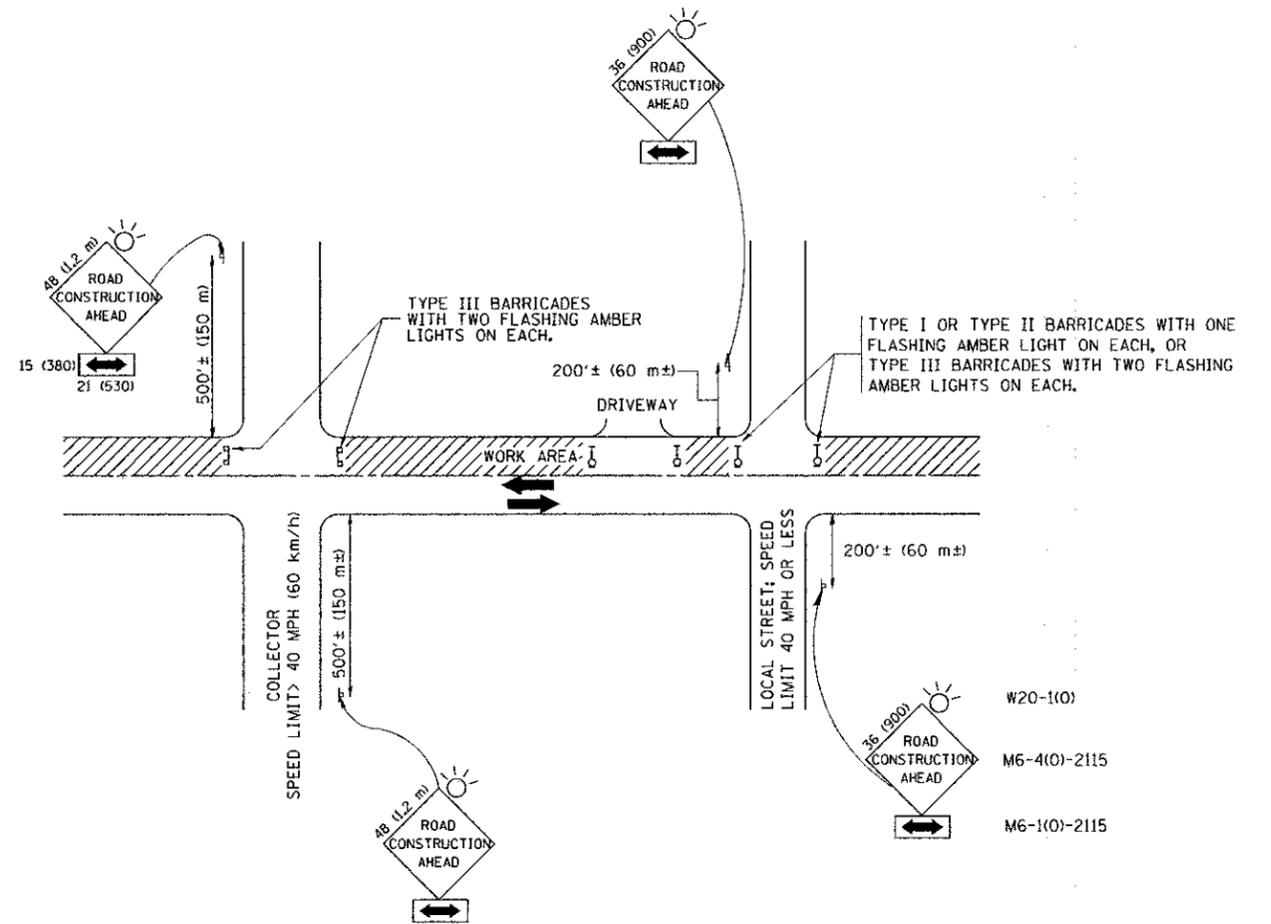
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CHECKED -- PR
DATE -- DEC. 2012

REVISED --
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REVISED --
REVISED --

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
WESTERN AVE RESURFACING

WESTERN PLAN - STATION 61+00 TO 76+63
SCALE: 1"=40'
JOB NO. C-91-162-13
STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
241	12-00114-00-RS	KANE	11	9
FED. ROAD DIST. NO. C-91-162-13		CONTRACT NO. 63814		
ILLINOIS		FED. AID PROJECT M-1003(147)		



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.

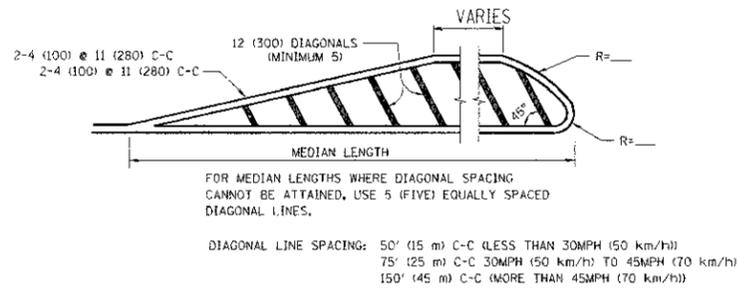
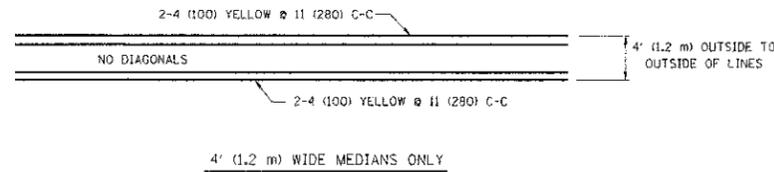
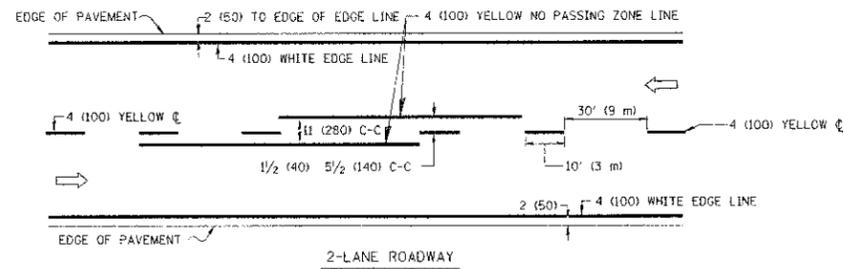
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	PLOT SCALE = 60,000 / IN.	CHECKED -	REVISED - A. HOUSEH 10-15-96
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

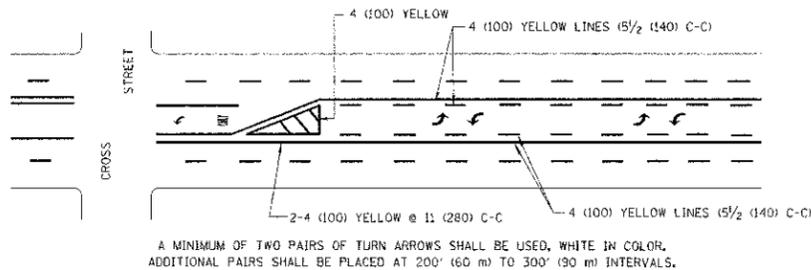
TRAFFIC CONTROL AND PROTECTION FOR
SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2411	12-00114-00-RS	KANE	11	10
TC-10			CONTRACT NO. 63814	
FED. ROAD DIST. NO. 1 (ILLINOIS) FED. AID PROJECT # 4-003 (147)				

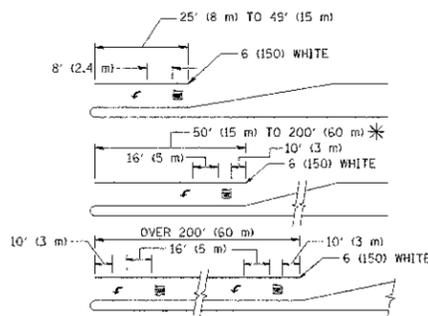


MEDIANS OVER 4' (1.2 m) WIDE



MEDIAN WITH TWO-WAY LEFT TURN LANE

TYPICAL PAINTED MEDIAN MARKING

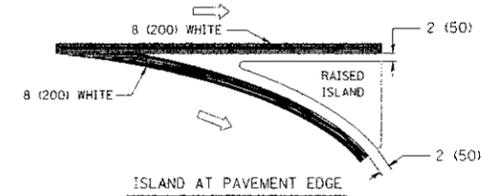
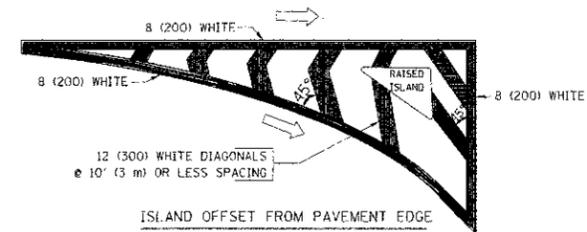


FULL SIZE LETTERS 8' (2.4 m) AND ARROWS SHALL BE USED.

* 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

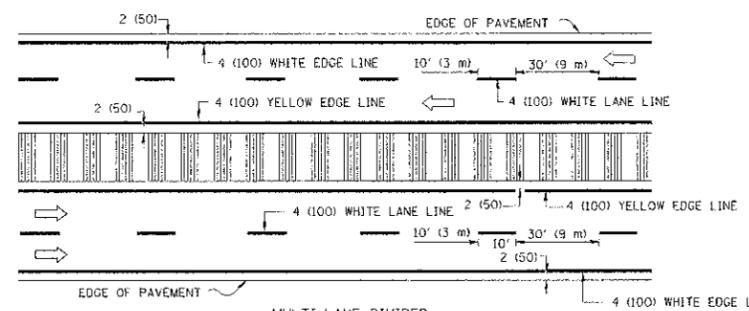
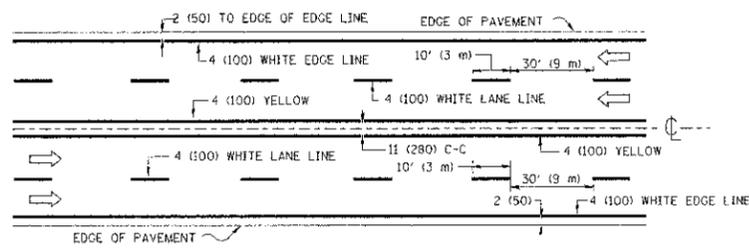


TYPICAL ISLAND MARKING

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 FOR BOTH DIRECTIONS	4 (100) 2 @ 4 (100)	SOLID SOLID	YELLOW YELLOW	5/2 (140) C-C FROM SKIP-DASH CENTERLINE 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 8' (2.4m) LEFT ARROW	SKIP-DASH AND SOLID IN PAIRS	YELLOW WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE FOR SKIP-DASH; 5/2 (140) C-C BETWEEN SOLID LINE AND SKIP-DASH LINE SEE TYPICAL TWO-WAY LEFT TURN MARKING DETAIL
CROSSWALK LINES (PEDESTRIAN) A. DIAGONALS (BICYCLE & 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° NO DIAGONALS USED FOR 4' (1.2 m) WIDE MEDIANS	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" IS 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 m²) EACH "X"=54.0 SQ. FT. (5.0 m²)
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))

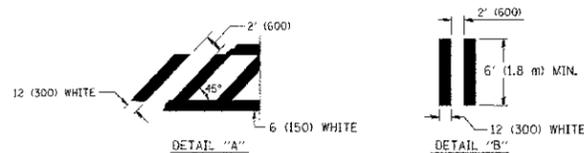
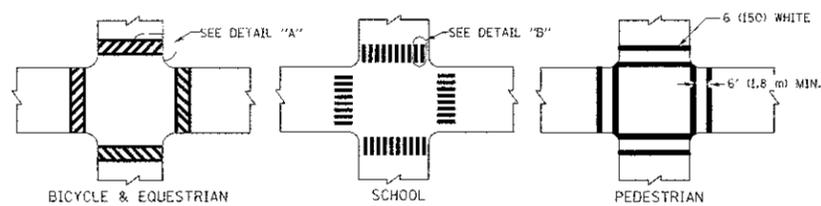
FOR FURTHER DETAILS ON PAVEMENT MARKING REFER TO STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND STATE STANDARD 780001.

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



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

TYPICAL LANE AND EDGE LINE MARKING



TYPICAL CROSSWALK MARKING