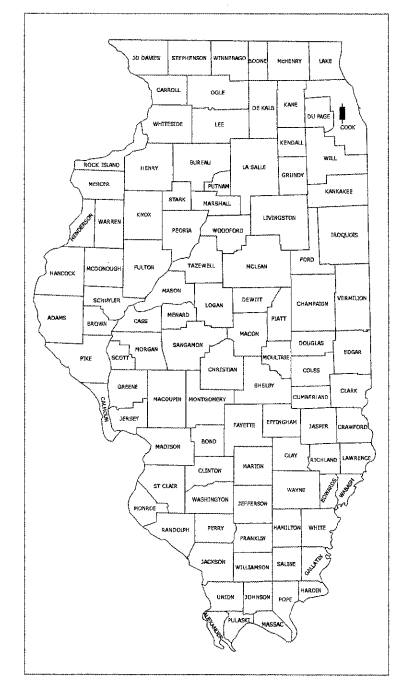


ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2732	09-00124-00-RS	COOK	22	1

ILLINOIS PROJECT ARA-9003 (302)
CONTRACT NO. 63296



LOCATION OF SECTION INDICATED THIS:

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
PLANS FOR PROPOSED
FEDERAL AID HIGHWAY
LOCAL AGENCY PAVEMENT PRESERVATION (LAPP)
FAU ROUTE 2732 (PRAIRIE AVENUE)
47th STREET TO BURLINGTON AVENUE
SECTION NO. 09-00124-00-RS
PROJECT ARA-9003 (302)
VILLAGE OF BROOKFIELD
COOK COUNTY
JOB NO. C-91-578-09**

INDEX OF SHEETS ON SHEET NO. 2

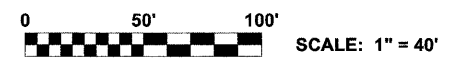
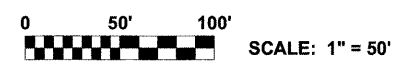
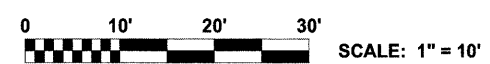
TRAFFIC DATA

2030 ADT = 8,500
POSTED SPEED LIMIT: 25 MPH
DESIGN SPEED: 30 MPH

DESIGN DESIGNATION

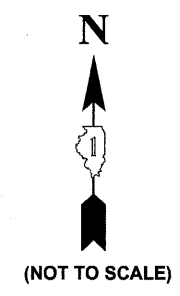
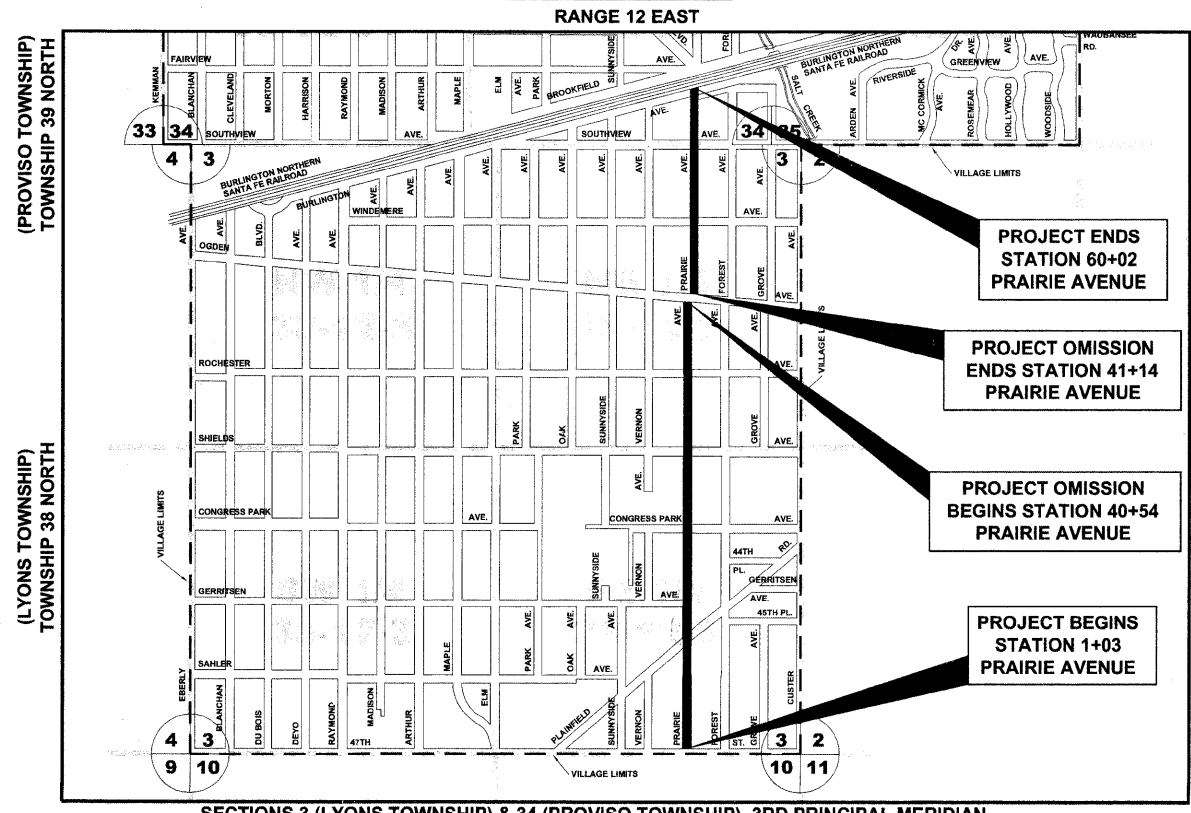
COLLECTOR

PROJECT LOCATED IN
THE VILLAGE OF BROOKFIELD



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.

LOCATION MAP



(NOT TO SCALE)

PROJECT ENDS
STATION 60+02
PRAIRIE AVENUE

PROJECT OMISSION
ENDS STATION 41+14
PRAIRIE AVENUE

PROJECT OMISSION
BEGINS STATION 40+54
PRAIRIE AVENUE

PROJECT BEGINS
STATION 1+03
PRAIRIE AVENUE

SECTIONS 3 (LYONS TOWNSHIP) & 34 (PROVISO TOWNSHIP), 3RD PRINCIPAL MERIDIAN

- AREA OF IMPROVEMENT

GROSS LENGTH OF IMPROVEMENT = 5,899 FT = 1.117 MI
NET LENGTH OF IMPROVEMENT = 5,839 FT = 1.106 MI

**STATE OF ILLINOIS
ILLINOIS DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS**

APPROVED August 17 2009
Michael Hayes
VILLAGE OF BROOKFIELD, PRESIDENT

PASSED August 31 2009
Cheryl C. Hetherington
DISTRICT 1 ENGINEER OF LOCAL ROADS & STREETS

RELEASED FOR BID
BASED ON LIMITED
REVIEW SEPTEMBER 1 2009
Diana M. O'Keefe
DEPUTY DIRECTOR OF HIGHWAYS,
REGION 1 ENGINEER

(PRINTED BY AUTHORITY OF THE STATE OF ILLINOIS)



DATE SIGNED: 08-17-09
LICENSE EXPIRES: 11-30-09

EDWIN HANCOCK ENGINEERING COMPANY
9933 ROOSEVELT ROAD PHONE: (708) 865-0300
WESTCHESTER, ILLINOIS 60154



**Know what's below.
Call before you dig.**

CONTRACT NO. 63296

FIELD ENGINEER: MARILYN SOLOMON, (847)705-4407
Drawing file: W:\Projects\12509095 - Prairie Ave LAPP\COVER.dwg Aug 17, 2009 - 1:32pm

INDEX OF SHEETS



























SHEET NO.	DESCRIPTION
1	COVER SHEET, LOCATION MAP
2	INDEX OF SHEETS, LEGEND OF SYMBOLS, AND I.D.O.T. STANDARD DRAWINGS
3	GENERAL NOTES
4	SUMMARY OF QUANTITIES
5-6	EXISTING AND PROPOSED TYPICAL CROSS SECTIONS
7	DETAILS & NOTES
8-10	MAINTENANCE OF TRAFFIC PLAN
11-14	PAVING PLANS
15	TRAFFIC SIGNAL DETECTOR LOOP REPLACEMENT PLAN
16	DETAILS FOR FRAMES AND LIDS ADJUSTMENT WITH MILLING (BD 08)
17	CURB AND GUTTER REMOVAL AND REPLACEMENT (BD 24)
18	BUTT JOINT AND HMA TAPER DETAILS (BD 32)
19	TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS (TC 10)
20	DISTRICT ONE TYPICAL PAVEMENT MARKINGS (TC 13)
21	TRAFFIC CONTROL AND PROTECTIONS AT TURN BAYS (TO REMAIN OPEN TO TRAFFIC) (TC 14)
22	DISTRICT ONE - DETECTOR LOOP INSTALLATION DETAILS FOR ROADWAY RESURFACING (TS 07)

I.D.O.T. STANDARD DRAWINGS

STANDARD NO.	TITLE OR DESCRIPTION
000001-05	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
424001-05	CURB RAMPS FOR SIDEWALKS
442201-03	CLASS C&D PATCHES
604001-03	FRAMES AND LIDS, TYPE 1
701501-05	URBAN LANE CLOSURE, 2-LANE, 2-WAY, UNDIVIDED
701606-06	URBAN LANE CLOSURE, MULTILANE, 2-WAY, WITH MOUNTABLE MEDIAN
701701-06	URBAN LANE CLOSURE, MULTILANE INTERSECTION
701801-04	LANE CLOSURE, MULTILANE, 1W OR 2W CROSSWALK OR SIDEWALK CLOSURE
701901-01	TRAFFIC CONTROL DEVICES
780001-02	TYPICAL PAVEMENT MARKINGS
886001-01	DETECTOR LOOP INSTALLATION
886006-01	TYPICAL LAYOUTS FOR DETECTION LOOPS

LEGEND OF SYMBOLS

(TO BE USED IN CONJUNCTION WITH I.D.O.T. STANDARD 000001-05)

SYMBOL	DESCRIPTION
	EXISTING HOT-MIX ASPHALT AREA
	EXISTING CONCRETE AREA
	EXISTING GRASS AREA
	PROPOSED HOT-MIX ASPHALT BUTT JOINT
	EXISTING CONCRETE SIDEWALK OR DRIVEWAY REMOVAL
	PROPOSED CONCRETE AREA, 5" SIDEWALK, 7" DRIVEWAY, 8" DRIVEWAY
	PROPOSED HOT-MIX ASPHALT PAVING AREA
	PROPOSED CLASS D PATCHES
	PROPOSED DETECTABLE WARNINGS
A	STRUCTURE TO BE ADJUSTED
A*	STRUCTURE TO BE ADJUSTED (SPECIAL)
1C	NEW FRAME AND LID, TYPE 1, CLOSED LID
1P	NEW FRAME AND LID, TYPE 1, OPEN LID
RC	STRUCTURE TO BE RECONSTRUCTED
	EXISTING DOMESTIC WATER SERVICE BOX
	EXISTING FIRE HYDRANT
	EXISTING WATER VALVE BOX
	EXISTING WATER MAIN VALVE VAULT
	EXISTING STORM SEWER INLET
	EXISTING STORM SEWER CATCH BASIN
	EXISTING SEWER MANHOLE
	EXISTING STREET LIGHT POLE
	EXISTING POWER POLE
	EXISTING TRAFFIC SIGNAL POLE
	EXISTING TRAFFIC SIGNAL MAST ARM
	EXISTING HANDHOLE
	DOUBLE HANDHOLE
	EXISTING TRAFFIC SIGNAL OR STREET LIGHT CONTROLLER
	EXISTING TRAFFIC SIGNAL MANHOLE
	EXISTING CURB AND GUTTER
	PROPOSED COMBINATION CONCRETE CURB AND GUTTER REMOVAL AND REPLACEMENT

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USER NAME	DESIGNED	WOP	REVISED
	DRAWN	LEV/MK	
PLOT SCALE	CHECKED	JG	
PLOT DATE	DATE	8-17-09	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

INDEX OF SHEETS, I.D.O.T. STANDARD
DRAWINGS, AND LEGEND OF SYMBOLS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2732	09-00124-00-RS	COOK	22	2
CONTRACT NO. 63296			PROJECT ARA-9003 (302)	

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

FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT ARA-9003 (302)

E.H.E. PROJECT NO. 125-09-09501

GENERAL NOTES

STANDARDS

ANY REFERENCE TO STANDARDS THROUGHOUT THE PLANS OR SPECIAL PROVISIONS SHALL BE INTERPRETED TO BE THE LATEST STANDARD OF THE ILLINOIS DEPARTMENT OF TRANSPORTATION AS SHOWN ON THE INDEX OF SHEETS IN THE PLANS. ALL CONSTRUCTION SHALL BE DONE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION ADOPTED JANUARY 1, 2007, THE "SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS" ADOPTED JANUARY 1, 2009, THE LATEST EDITION OF THE "ILLINOIS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS," "THE STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS" MAY 1996 FIFTH EDITION, AND THE "DETAILS" IN THE PLANS AND THE "SPECIAL PROVISIONS" INCLUDED IN THE CONTRACT DOCUMENTS.

UNDERGROUND UTILITIES

BEFORE STARTING ANY EXCAVATION, THE CONTRACTOR SHALL CALL "JULIE" AT 811 FOR FIELD LOCATIONS OF BURIED ELECTRICAL, TELEPHONE AND GAS FACILITIES. (48 HOURS NOTIFICATION IS REQUIRED).

THE LOCATIONS OF THE UNDERGROUND UTILITIES IF SHOWN ON THE PLANS HAVE BEEN OBTAINED BY FIELD SURVEYS AND SEARCHES OF AVAILABLE RECORDS. IT IS BELIEVED THAT DATA IS ESSENTIALLY CORRECT, BUT THE VILLAGE OF BROOKFIELD, THE ILLINOIS DEPARTMENT OF TRANSPORTATION AND/OR OTHER OFFICES AND AGENCIES ASSOCIATED WITH THE DEVELOPMENT OF THESE PLANS DO NOT GUARANTEE THEIR ACCURACY OR COMPLETENESS. THE CONTRACTOR WILL BE REQUIRED TO VERIFY THE EXACT LOCATION OF EACH FACILITY WITH THE UTILITY COMPANY, AND SHALL TAKE DUE CARE IN ALL PHASES OF THE CONSTRUCTION TO PROTECT ANY SUCH FACILITIES WHICH MAY BE AFFECTED BY THE WORK. ANY DAMAGE TO EXISTING UTILITIES SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.

THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES AND THE VILLAGE OF BROOKFIELD.

FRAMES AND GRATES

THE TYPE OF FRAMES AND GRATES REQUIRED FOR ALL CATCH BASINS AND MANHOLES LISTED IN THE SUMMARY OF QUANTITIES MAY BE FOUND ON THE PLANS AT THEIR RESPECTIVE LOCATIONS. WHERE LIDS ARE CALLED FOR ON THE PLANS, THEY SHALL BE IN ACCORDANCE WITH ARTICLE 604.01 OF THE STANDARD SPECIFICATIONS AND THE TERM LID IS USED IN LIEU OF GRATE.

ON ALL IMPROVEMENTS, THE FRAMES AND LIDS OF EXISTING CATCH BASINS, INLETS, MANHOLES, AND VALVE VAULTS WHICH ARE TO BE ABANDONED DUE TO CONSTRUCTION OF THIS IMPROVEMENT ARE TO REMAIN THE PROPERTY OF THE VILLAGE OF BROOKFIELD AND BE SALVAGED. THE CONTRACTOR IS TO DELIVER FRAMES AND LIDS TO THE VILLAGE OF BROOKFIELD PUBLIC WORKS YARD LOCATED AT 4545 EBERLY AVENUE.

MANHOLE OR VALVE COVERS

THE WORD "WATER", "SANITARY", OR "STORM" SHALL BE CAST INTO THE LID OF EACH RESPECTIVE MANHOLE OR VALVE VAULT.

MAINTENANCE OF SEWER FLOWS

THE CONTRACTOR SHALL CONDUCT HIS OPERATIONS AS TO MAINTAIN AT ALL TIMES FLOW THROUGH EXISTING STORM AND SANITARY SEWER SYSTEMS. HE SHALL ALSO PROVIDE AND MAINTAIN AN EFFICIENT PUMPING PLANT IF NECESSARY AND A TEMPORARY OUTLET AND BE PREPARED AT ALL TIMES TO DISPOSE OF THE WATER COLLECTED IN A SAFE MANNER WITHOUT DAMAGE OF ANY KIND TO ADJACENT PROPERTIES. THE ENDS OF EXISTING DRAINAGE LINES WHICH ARE NOT TO BE INCORPORATED INTO THE PROJECT ARE TO BE SEALED AS SPECIFIED IN THE SPECIAL PROVISIONS. EXISTING STRUCTURES ARE TO BE INSPECTED BEFORE CONSTRUCTION STARTS - ANY ACCUMULATION OF MATERIAL IN THE STRUCTURE DUE TO CONSTRUCTION OPERATIONS SHALL BE REMOVED BY THE CONTRACTOR AT HIS EXPENSE.

MAINTENANCE OF EXISTING DRAINAGE STRUCTURES

WHEN DURING THE CONSTRUCTION OPERATIONS, ANY LOOSE MATERIAL IS DEPOSITED IN THE FLOW LINE OF ANY GUTTERS AND DRAINAGE STRUCTURE SO THAT THE NATURAL FLOW OF WATER IS OBSTRUCTED, IT SHALL BE REMOVED AT THE CLOSE OF EACH WORKING DAY. AT THE CONCLUSION OF THE CONSTRUCTION OPERATIONS, ALL DRAINAGE FACILITIES SHALL BE CLEAN AND FREE OF ALL OBSTRUCTIONS DUE TO CONSTRUCTION OPERATIONS. THE COST OF THIS WORK SHALL BE INCLUDED IN THE COST OF THE CONTRACT.

SAW CUTTING

THE CONTRACTOR SHALL SAW CUT ASPHALT PAVEMENT AS INDICATED ON THE PLANS TO SEPARATE THE EXISTING PAVEMENT TO BE REMOVED BY APPROVED MEANS OR AN APPROVED CONCRETE SAW TO A DEPTH AS DIRECTED BY THE ENGINEER. SUITABLE GUIDELINES OR DEVICES SHALL BE USED TO ASSURE CUTTING A NEAT, STRAIGHT LINE AS SHOWN ON THE PLANS. CARE SHALL BE TAKEN BY THE CONTRACTOR AS NOT TO DAMAGE THE REMAINING PAVEMENT DIRECTLY ADJACENT TO THE PAVEMENT TO BE REMOVED. ANY DAMAGE TO THE EXISTING PAVEMENT RESULTING FROM PAVEMENT REMOVAL OPERATIONS SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE. THE COST OF SAW CUTTING DESCRIBED ABOVE SHALL BE INCLUDED IN THE COST OF THE ITEM BEING REMOVED.

FRAMES AND LIDS TO BE ADJUSTED (SPECIAL)

THIS ITEM ONLY PERTAINS TO STRUCTURES LOCATED IN THE CONCRETE OR HOT-MIX ASPHALT ROADWAY PAVEMENT AREAS THAT WILL REQUIRE CONCRETE OR HOT-MIX SURFACE REMOVAL. THE ENGINEER WILL MARK IN THE FIELD ALL STRUCTURES TO BE ADJUSTED UNDER THIS ITEM. SEE DETAIL SHEET FOR "FRAMES AND LIDS ADJUSTMENT WITH MILLING."

PRIME COAT

PRIME COAT MUST BE INSTALLED NO EARLIER THAN TWENTY-FOUR (24) HOURS PRIOR TO PLACEMENT OF HOT-MIX ASPHALT.

FIELD OFFICE

THE CONTRACTOR WILL NOT BE ALLOWED TO SET UP A YARD OR FIELD OFFICE ON STATE OR VILLAGE PROPERTY WITHOUT WRITTEN PERMISSION FROM THE DEPARTMENT OR THE VILLAGE.

BARRICADES

THE CONTRACTOR SHALL PROVIDE AND INSTALL TWO (2) WEIGHTED SANDBAGS ON EACH TYPE I OR TYPE II BARRICADE USED, ONE (1) WEIGHTED SANDBAG ACROSS EACH BOTTOM RAIL.

BUTT JOINTS

A BUTT JOINT 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.

MILLED PAVEMENT OPEN TO TRAFFIC

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).

PAVING OPERATIONS

CONTRACTOR MUST PAVE PRAIRIE AVENUE IN A MAXIMUM OF 2 PASSES. IF THE CONTRACTOR IS NOT ABLE TO COMPLETE ALL THE PAVING IN ONE (1) DAY, THE LONGITUDINAL JOINT SHALL BE SAWCUT PRIOR TO PAVING THE SECOND PASS, AND SEALED UPON COMPLETION OF PAVING.

PAVEMENT PATCHING

LOCATIONS OF CLASS D PATCHES ON PLANS ARE APPROXIMATE. EXACT LOCATIONS WILL BE DETERMINED IN FIELD BY ENGINEER. CLASS D PATCHES LOCATED WITHIN THE THROUGH LANES OF PRAIRIE AVENUE OR ANY CROSS STREET SHALL BE MADE ACCESSIBLE TO TRAFFIC AT THE END OF EACH WORK DAY. THE CONTRACTOR WILL NOT BE ALLOWED TO ROUTE TRAFFIC INTO THE PARKING LANE OUTSIDE OF NORMAL WORKING HOURS.

SCHEDULE OF ROAD CLOSURES AND MAINTENANCE OF TRAFFIC

PRAIRIE AVENUE WILL REMAIN OPEN TO THRU TRAFFIC DURING ALL OPERATIONS PRIOR TO INSTALLATION OF HOT-MIX ASPHALT SURFACE. THE ROAD SHALL THEN BE CLOSED FOR THE INSTALLATION OF THE HOT-MIX ASPHALT SURFACE AND THERMOPLASTIC STRIPING, AND A DETOUR SHALL BE PROVIDED. PRAIRIE AVENUE WILL BE CONSIDERED AS TWO INDEPENDENT SECTIONS WITH REGARD TO ROAD CLOSURE, THE SECTIONS BEING 47TH STREET TO OGDEN AVENUE AND OGDEN AVENUE TO BURLINGTON AVENUE, RESPECTIVELY. ONLY ONE SECTION SHALL BE CLOSED AT A TIME AND UNDER NO CIRCUMSTANCE SHALL BOTH SECTIONS BE CLOSED SIMULTANEOUSLY. AFTER THE HOT-MIX ASPHALT SURFACE HAS BEEN INSTALLED ON ONE SECTION, THE STRIPING WORK SHALL BE COMPLETED AT THAT LOCATION THE FOLLOWING DAY. AFTER THE STRIPING WORK IS COMPLETED AT THAT LOCATION, THE SECTION OF ROAD SHALL THEN BE REOPENED AND THE CONTRACTOR MAY PROCEED WITH WORK ON THE REMAINING SECTION.

LIMITATION OF OPERATIONS

THE CONTRACTOR SHALL NOT BEGIN CONSTRUCTION ON THIS PROJECT PRIOR TO MAY 3, 2010. THE CLOSURES OF PRAIRIE AVENUE FOR THE PLACEMENT OF HOT-MIX ASPHALT SURFACE COURSE AND THE INSTALLATION OF THERMOPLASTIC PAVEMENT MARKINGS SHALL NOT OCCUR PRIOR TO JUNE 14, 2010.

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993 Summit Road
Westbrook, ME 04095-2786
Phone: 768-6040
Fax: 768-6022

USER NAME	DESIGNED	WOP	REVISED
	DRAWN	LEV/MK	
PLOT SCALE	CHECKED	JG	
PLOT DATE	DATE	8-17-09	

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

GENERAL NOTES

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2732	09-00124-00-RS	COOK	22	3
CONTRACT NO. 63296			ARA-9003 (302)	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

E.H.E. PROJECT NO. 125-09-09501

SUMMARY OF QUANTITIES

CODE	PAY ITEM DESCRIPTION	UNT	1000	1000	NON PARTICIPATING	
			TOTAL QUANTITY	100% FEDERAL 0% LOCAL	Y060 100% VILLAGE OF BROOKFIELD	
~	20800150	TRENCH BACKFILL	CU YD	75		75
	21101615	TOPSOIL FURNISH AND PLACE, 4"	SQ YD	500	500	
	25000400	NITROGEN FERTILIZER NUTRIENT	POUND	10	10	
	25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	10	10	
	25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	10	10	
	25200100	SODDING	SQ YD	500	500	
	25200200	SUPPLEMENTAL WATERING	UNIT	10	10	
	40201000	AGGREGATE FOR TEMPORARY ACCESS	TON	60	60	
	40600100	BITUMINOUS MATERIALS (PRIME COAT)	GALLON	5,500	5,500	
	40600300	AGGREGATE (PRIME COAT)	TON	60	60	
	40600400	MIXTURE FOR CRACKS, JOINTS, AND FLANGEWAYS	TON	40	40	
	40600725	POLYMERIZED LEVELING BINDER (MACHINE METHOD), N50	TON	1,275	1,275	
	40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	400	400	
	40603335	HOT-MIX ASPHALT SURFACE COURSE, MX "D", N50	TON	3,300	3,300	
	40800050	INCIDENTAL HOT-MIX ASPHALT SURFACING	TON	20	20	
	42101300	PROTECTIVE COAT	SQ YD	750	750	
	42300300	PORLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 7 INCH	SQ YD	50	50	
	42300400	PORLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 8 INCH	SQ YD	160	160	
	42400200	PORLAND CEMENT CONCRETE SIDEWALK 5 INCH	SQ FT	4,000	4,000	
	42400800	DETECTABLE WARNINGS	SQ FT	600	600	
~	44000198	HOT-MIX ASPHALT SURFACE REMOVAL, VARIABLE DEPTH	SQ YD	27,000	27,000	
~	44000100	PAVEMENT REMOVAL	SQ YD	160	160	
~	44000200	DRIVEWAY PAVEMENT REMOVAL	SQ YD	70	70	
~	44000600	SIDEWALK REMOVAL	SQ FT	4,000	4,000	
~	44001700	COMBINATION CONCRETE CURB AND GUTTER REMOVAL AND REPLACEMENT	FOOT	1,500	1,500	
~	44201761	CLASS D PATCHES, TYPE I, 10 INCH	SQ YD	10	10	
~	44201765	CLASS D PATCHES, TYPE II, 10 INCH	SQ YD	125	125	
~	44201769	CLASS D PATCHES, TYPE III, 10 INCH	SQ YD	80	80	
~	44201771	CLASS D PATCHES, TYPE IV, 10 INCH	SQ YD	500	500	
~	60257900	MANHOLES TO BE RECONSTRUCTED	EACH	4	4	
~	60300305	FRAMES AND LIDS TO BE ADJUSTED	EACH	1	1	
~	60300310	FRAMES AND LIDS TO BE ADJUSTED (SPECIAL)	EACH	48	48	
~	60406000	FRAMES AND LIDS, TYPE 1, OPEN LID	EACH	1	1	
~	60406100	FRAMES AND LIDS, TYPE 1, CLOSED LID	EACH	52	52	
~	60266610	VALVE BOXES TO BE ADJUSTED (SPECIAL)	EACH	2	2	
~	67100100	MOBILIZATION	L SUM	1	1	
~	70101700	TRAFFIC CONTROL AND PROTECTION	L SUM	1	1	
~	70106800	CHANGEABLE MESSAGE SIGN	CAL MO	3	3	
	70300100	SHORT-TERM PAVEMENT MARKING	FOOT	900	900	
*	78000100	THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	150	150	
*	78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	12,500	12,500	
*	78000400	THERMOPLASTIC PAVEMENT MARKING - LINE 6"	FOOT	1,350	1,350	
*	78000600	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	1,000	1,000	
*	78000650	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	500	500	
~*	88600600	DETECTOR LOOP REPLACEMENT	FOOT	400	400	
~*	X0325207	TELEVISION INSPECTION OF SEWER	FOOT	1,900		1,900
~*	XX000690	SANITARY SEWER REMOVAL AND REPLACEMENT 10"	FOOT	11		11
~*	XX001464	SANITARY SEWERS, PVC, 6"	FOOT	40		40
~*	XX005634	12"x6" PVC SEWER SERVICE CONNECTIONS	EACH	1		1
~*	XX006449	12" PVC COMBINED SEWER PIPE REPLACEMENT	FOOT	6		6
~*	XX006451	10"x6" PVC SEWER SERVICE CONNECTIONS	EACH	2		2
~*	XX006815	8"x6" PVC SEWER SERVICE CONNECTIONS	EACH	5		5
~*	XX008190	8" PVC COMBINED SEWER PIPE REPLACEMENT	FOOT	70		70
~*	XX104100	CONNECTION TO EXISTING MANHOLE	EACH	1		1
~	Z0004900	BITUMINOUS MIXTURE FOR PATCHING POTHOLES (HOT MIX)	TON	40	40	
~	Z0048665	RAILROAD PROTECTIVE LIABILITY INSURANCE	L SUM	1	1	

* DENOTES SPECIALTY ITEM
~ DENOTES SPECIAL PROVISION HAS BEEN PROVIDED

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HANCOCK ENGINEERING
Civil Engineers
Municipal Consultants
Established 1911

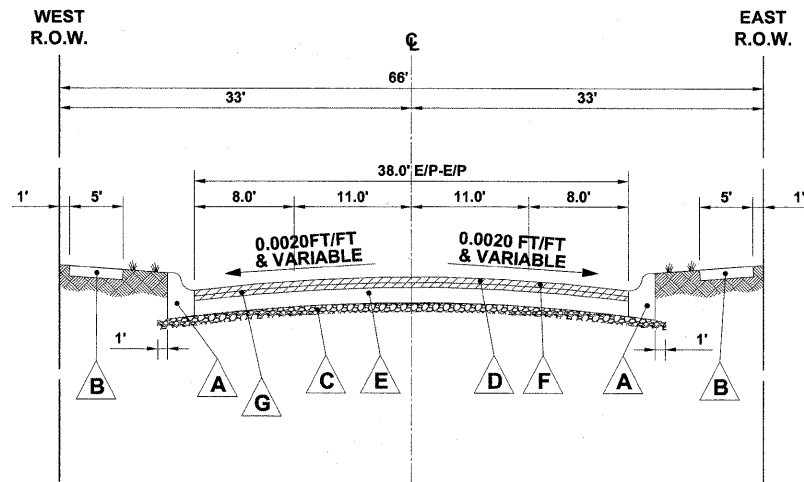
3913 Brookfield Blvd
Brookfield, IL 60015-5700
Phone: 708.945.4300
Fax: 708.945.1212

USER NAME	DESIGNED - WOP	REVISED
	DRAWN - LEV/MK	
PLOT SCALE	CHECKED - JG	
PLOT DATE	DATE - 8-17-09	

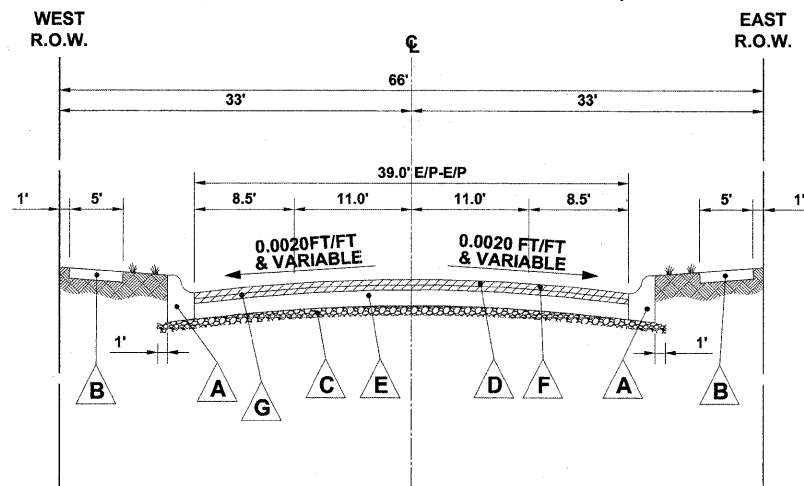
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SCALE: NONE		SHEET NO. OF SHEETS	STA. TO STA.
SUMMARY OF QUANTITIES			

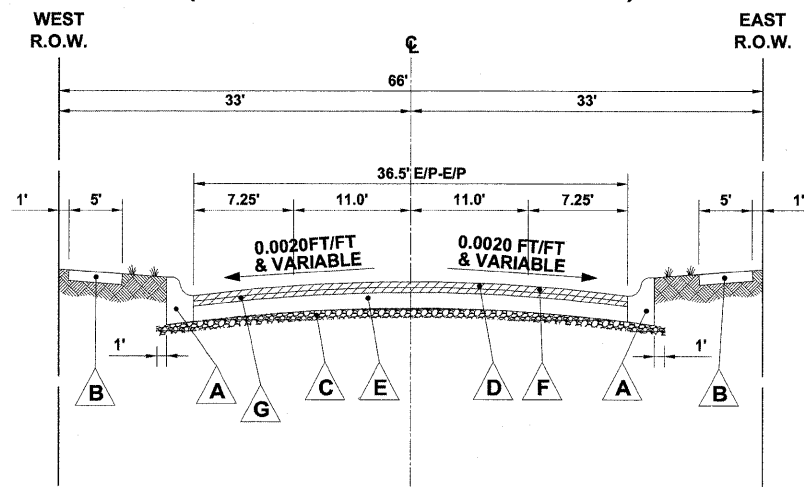
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2732	09-00124-00-RS	COOK	22	4
CONTRACT NO. 63296			PROJECT ARA-9003 (302)	



**EXISTING TYPICAL CROSS SECTION
PRAIRIE AVENUE
(STATION 1+03 TO STATION 40+54)**



**EXISTING TYPICAL CROSS SECTION
PRAIRIE AVENUE
(STATION 41+14 TO STATION 45+00)**



**EXISTING TYPICAL CROSS SECTION
PRAIRIE AVENUE
(STATION 45+00 TO STATION 60+02)**

LEGEND OF SYMBOLS

SYMBOL	DESCRIPTION
A	EXISTING COMBINATION CONCRETE CURB & GUTTER, TYPE B-6.12
B	EXISTING PORTLAND CEMENT CONCRETE SIDEWALK, 5"
C	EXISTING SUB-BASE GRANULAR MATERIAL, 4" AND VARIABLE
D	EXISTING HOT-MIX ASPHALT SURFACE COURSE, 2"
E	EXISTING 8" HOT-MIX ASPHALT BASE COURSE
F	PROPOSED HOT-MIX ASPHALT SURFACE REMOVAL, VARIABLE DEPTH
G	EXISTING HOT-MIX ASPHALT BINDER COURSE, 2"

Drawing file: W:\Projects\12509025 - Prairie Ave LAP\TYPESEC.dwg Aug 17, 2009 - 1:28pm



9933 Stewart Road
Webster, MO 65765-2780
Phone: 781.945.0300
Fax: 781.945.0322

USER NAME	DESIGNED	WOP	REVISED
	DRAWN	LEV/MK	
PLOT SCALE NONE	CHECKED	JG	
PLOT DATE	DATE	8-17-09	

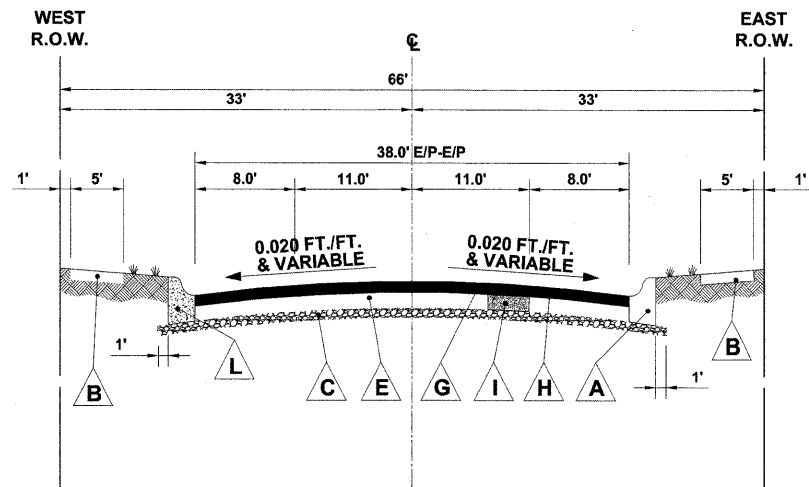
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

EXISTING TYPICAL CROSS SECTIONS

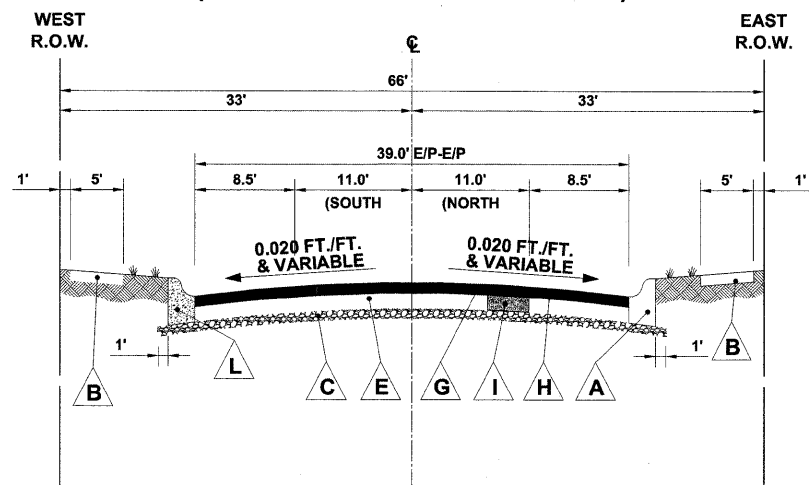
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F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2732	09-00124-00-RS	COOK	22	5
CONTRACT NO. 63296			ARA-9003 (302)	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

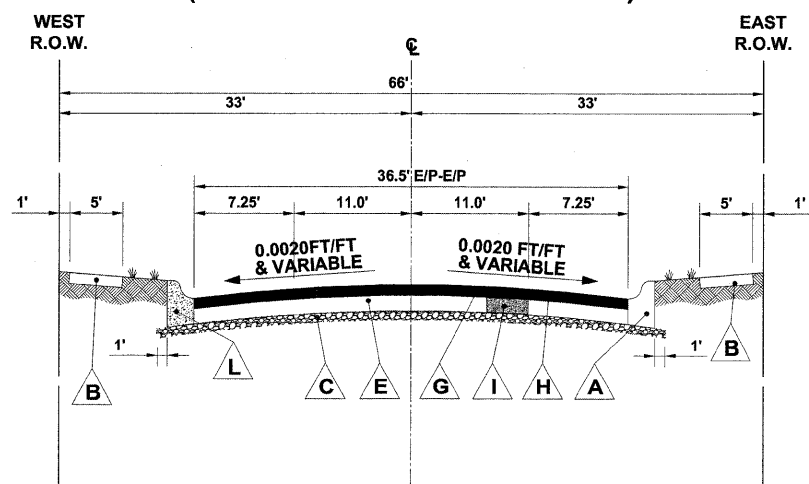
E.H.E. PROJECT NO. 125-09-09501



**PROPOSED TYPICAL CROSS SECTION
PRAIRIE AVENUE
(STATION 1+03 TO STATION 40+54)**



**PROPOSED TYPICAL CROSS SECTION
PRAIRIE AVENUE
(STATION 41+14 TO STATION 45+00)**



**PROPOSED TYPICAL CROSS SECTION
PRAIRIE AVENUE
(STATION 45+00 TO STATION 60+02)**

LEGEND OF SYMBOLS

SYMBOL	DESCRIPTION
A	EXISTING COMBINATION CONCRETE CURB & GUTTER, TYPE B-6.12
B	EXISTING PORTLAND CEMENT CONCRETE SIDEWALK, 5"
C	EXISTING SUB-BASE GRANULAR MATERIAL, 4" AND VARIABLE
E	EXISTING HOT-MIX ASPHALT BASE COURSE
G	PROPOSED POLYMERIZED LEVELING BINDER (MACHINE METHOD), N50, 3/4"
H	PROPOSED HOT-MIX ASPHALT SURFACE COURSE, MIX D, N50, 2"
I	PROPOSED CLASS D PATCHES, 10"
L	PROPOSED INTERMITTENT COMBINATION CONCRETE CURB & GUTTER REMOVAL & REPLACEMENT

HOT-MIX ASPHALT (HMA) MIXTURE REQUIREMENTS

ITEM	A C TYPE	VOIDS
PRAIRIE AVENUE - RESURFACING POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL 4.75, N50, 3/4"	SBS/SBR PG 76-28/-22	4% @ 50 GYR.
HOT-MIX ASPHALT SURFACE COURSE, MIX D, N50 (IL 9.5mm), 2"	PG 64 -22	4% @ 50 GYR.
INCIDENTAL HOT-MIX ASPHALT SURFACING HOT-MIX ASPHALT SURFACE COURSE, MIX D, N50 (IL 9.5mm), 3"	PG 64 -22	4% @ 50 GYR.
BITUMINOUS MIXTURE FOR PATCHING POTHOLE (HOT MIX) HMA BINDER (IL 19mm), 2"	PG 64 -22 *	4% @ 50 GYR.
CLASS D PATCHES HMA BINDER (IL 19mm), 10"	PG 64 -22 *	4% @ 70 GYR.

THE UNIT WEIGHT USED TO CALCULATE ALL HMA SURFACE COURSE IS 112 LBS/SQYD/IN.

* WHEN RAP EXCEEDS 20 %, THE NEW ASPHALT BINDER IN THE MIX SHALL BE PG 58-22.

Drawing file: W:\Projects\12509095 - Prairie Ave LAMP\TYPESEC.dwg Aug 17, 2009 3:49pm



913 Riverside Blvd
Westbrook, Utah 84154-2788
Phone: 765.962.5388
Fax: 765.962.5322

USER NAME	DESIGNED	WOP	REVISED
	DRAWN	LEV/MK	
PLOT SCALE NONE	CHECKED	JG	
PLOT DATE	DATE	8-17-09	

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

PROPOSED TYPICAL CROSS SECTIONS

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2732	09-00124-00-RS	COOK	22	6
CONTRACT NO. 63296			ARA-9003 (302)	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

E.H.E. PROJECT NO. 125-09-09501

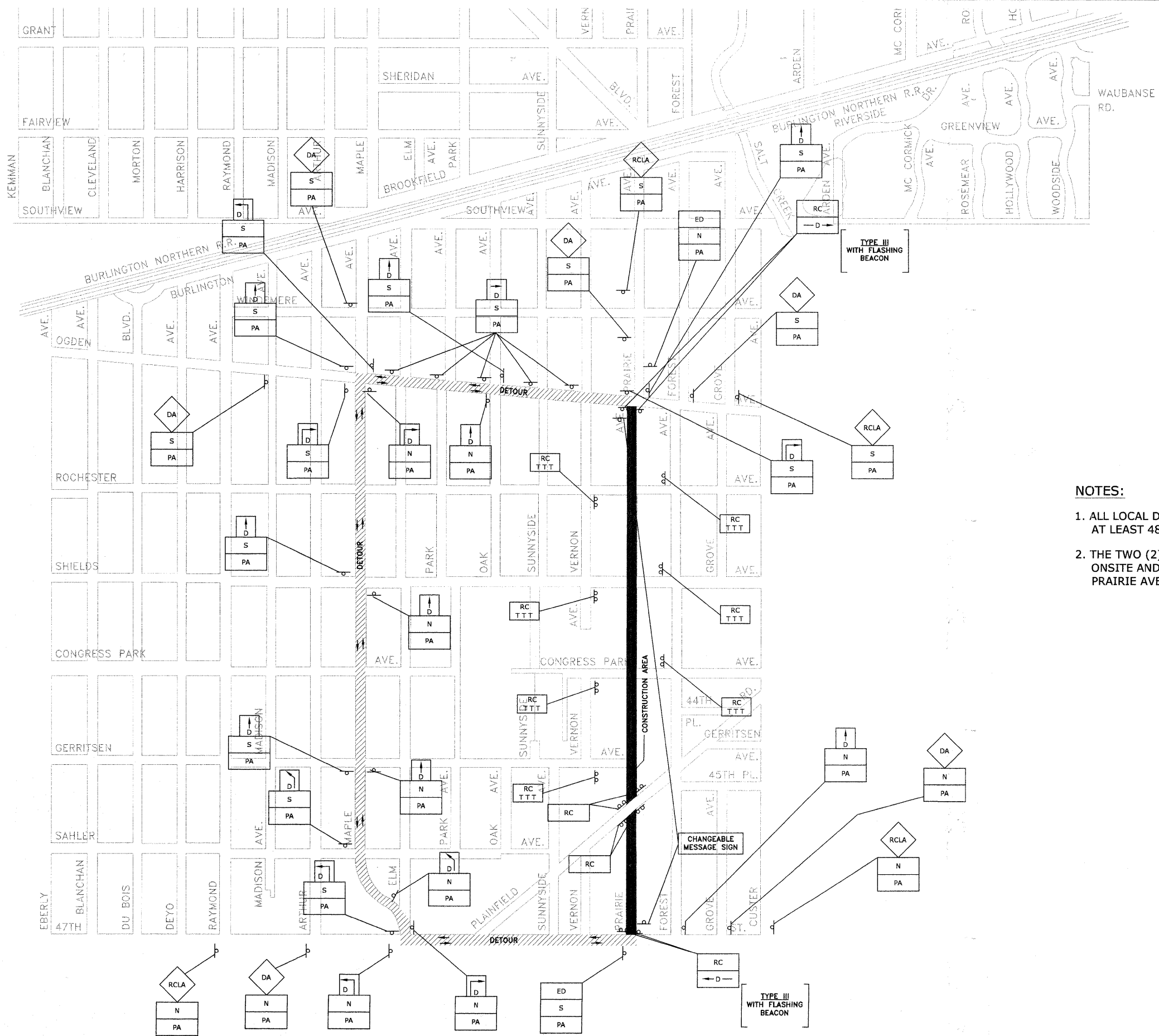
LEGEND OF SYMBOLS		
SYMBOL	DESCRIPTION	CODE & SIZE
		W20-3 48"x48"
		W20-2 48"x48"
		W1-2 24"x24"
		W1-2 24"x24"
		R8-3 24"x24"
		R11-4 60"x30"
		R11-4 60"x30"
		M3-1 24"x12"
		M3-1 24"x12"
		M4-8 36"x12"

LEGEND OF SYMBOLS		
SYMBOL	DESCRIPTION	CODE & SIZE
		M4-8 24"x18"
		M4-8 36"x24"
		M4-8 36"x24"
		M4-9 30"x24"
		M4-9 30"x24"
		M4-9 30"x24"
		M4-9R 24"x30"
		M4-9L 24"x30"
		M4-10 48"x18"
		M4-10 48"x18"

NOTE:

CONTRACTOR TO NOTIFY IDOT HEAD OF TRAFFIC MAINTENANCE (842)705-4470, SEVENTY-TWO HOURS IN ADVANCE OF SETTING UP DETOUR ROUTE.

Drawing file: W:\Projects\12509095 - Prairie Ave Lepp\Maintenance of Traffic.dwg Aug 17, 2009 - 3:48pm



NOTES:

1. ALL LOCAL DETOURS SHALL BE APPROVED BY THE VILLAGE AT LEAST 48 HOURS PRIOR TO INSTALLATION.
2. THE TWO (2) CHANGEABLE MESSAGE SIGNS ARE TO BE ONSITE AND FUNCTIONING FOR 2 WEEKS PRIOR TO PRAIRIE AVENUE BEING CLOSED.

HANCOCK ENGINEERING
 Civil Engineers
 Municipal Consultants
 Established 1911

9301 Rosehill Road
 Westchester, Illinois 60591-2706
 Phone: 708.564.6100
 Fax: 708.564.5222

USER NAME	DESIGNED	WOP	REVISED
	DRAWN	LEV/MK	
PLOT SCALE	CHECKED	JG	
PLOT DATE	DATE	8-17-09	

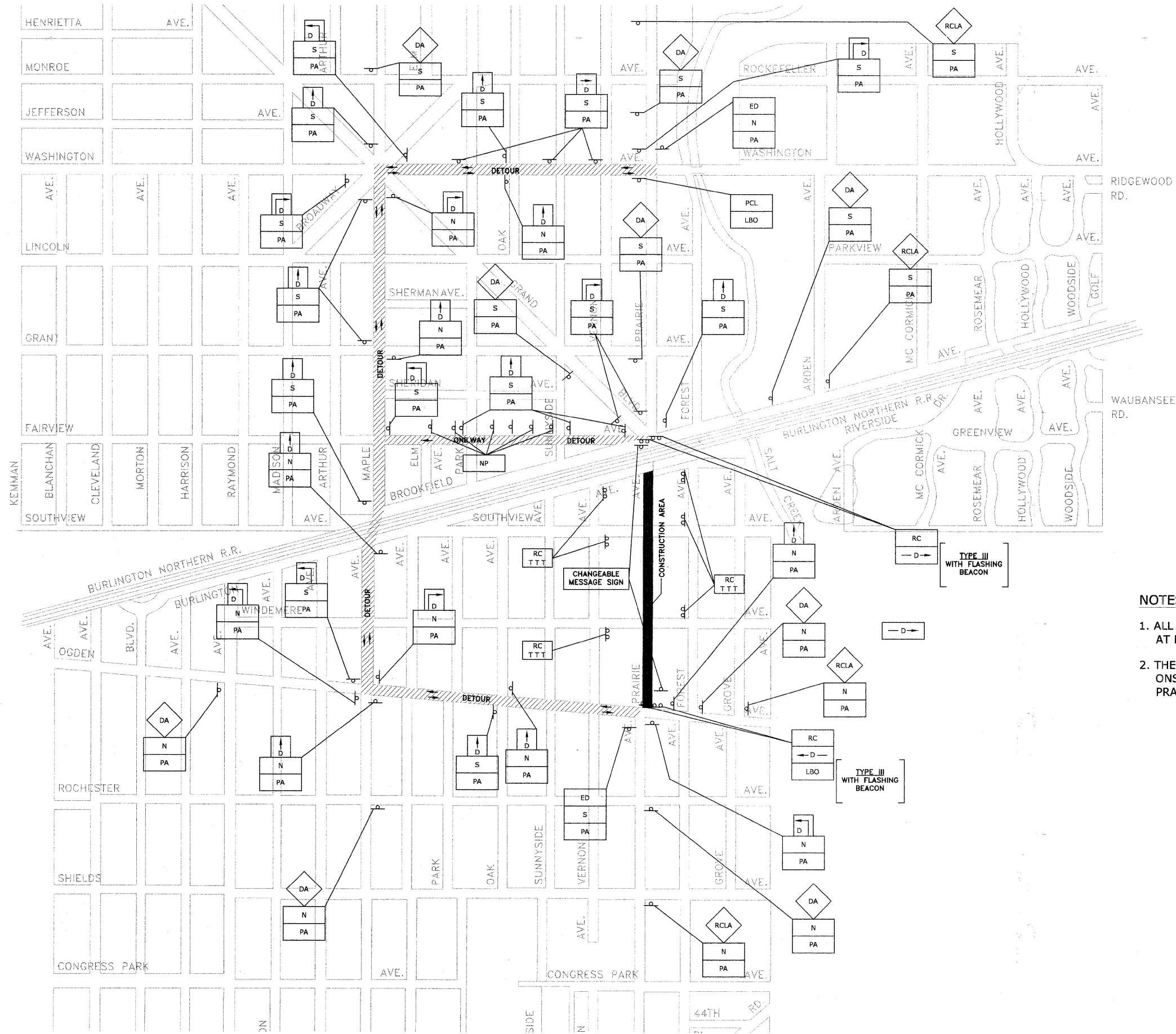
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**DETOUR SIGNING FOR THROUGH TRAFFIC
 WHEN PRAIRIE AVENUE IS CLOSED
 FROM 47TH STREET TO OGDEN AVENUE**

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2732	09-00124-00-RS	COOK	22	9
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			CONTRACT NO. 63296	
			ARA-9003 (302)	

E.H.E. PROJECT NO. 175-09-09561



NOTES:

1. ALL LOCAL DETOURS SHALL BE APPROVED BY THE VILLAGE AT LEAST 48 HOURS PRIOR TO INSTALLATION.
2. THE TWO (2) CHANGEABLE MESSAGE SIGNS ARE TO BE ONSITE AND FUNCTIONING FOR 2 WEEKS PRIOR TO PRAIRIE AVENUE BEING CLOSED.

Drawing file: W:\Projects\12509095 - Prairie Ave LAPP\Maintenance of Traffic.dwg Aug 17, 2009 - 4:03pm

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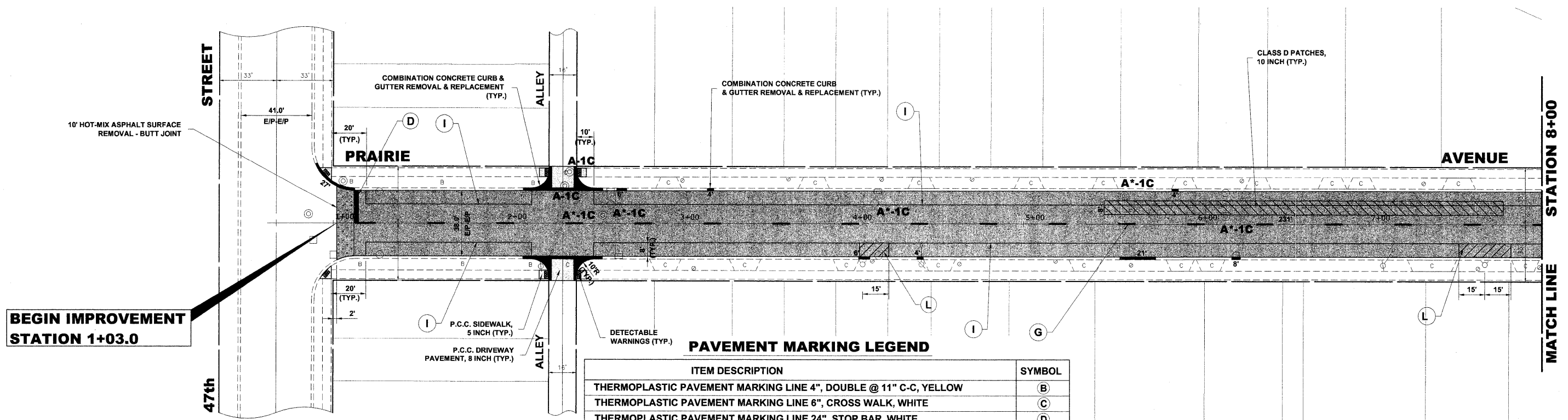
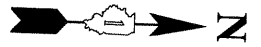
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	DRAWN	LEV/MK	
PLOT SCALE	CHECKED	JG	
PLOT DATE	DATE	8-17-09	

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**DETOUR SIGNING FOR THROUGH TRAFFIC
 WHEN PRAIRIE AVENUE IS CLOSED
 FROM OGDEN AVENUE TO BURLINGTON AVENUE**

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2732	09-00124-00-R5	COOK	22	10
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			CONTRACT NO. 63296	
			ARA-9003 (302)	

E.H.F. PROJECT NO. 125-09-09501

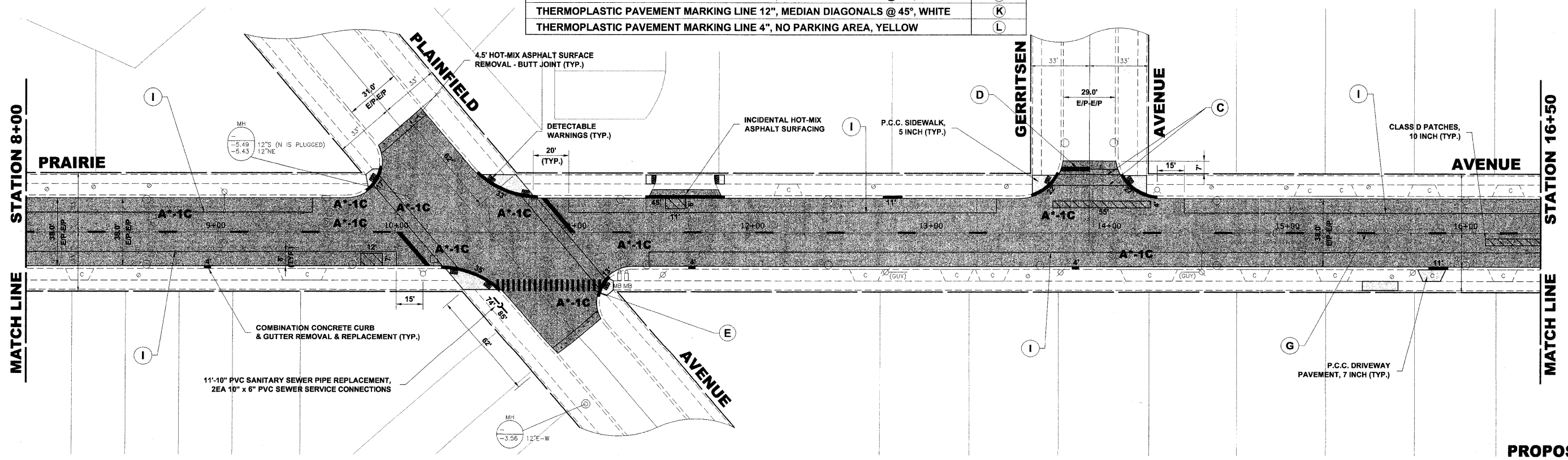


**BEGIN IMPROVEMENT
STATION 1+03.0**

PAVEMENT MARKING LEGEND

ITEM DESCRIPTION	SYMBOL
THERMOPLASTIC PAVEMENT MARKING LINE 4", DOUBLE @ 11" C-C, YELLOW	(B)
THERMOPLASTIC PAVEMENT MARKING LINE 6", CROSS WALK, WHITE	(C)
THERMOPLASTIC PAVEMENT MARKING LINE 24", STOP BAR, WHITE	(D)
THERMOPLASTIC PVMT. MARKING LINE 12", SCHOOL CROSSWALK @ 36" C-C, WHITE	(E)
THERMOPLASTIC PAVEMENT MARKING LINE 6", TURN LANE LINE, WHITE	(F)
THERMOPLASTIC PAVEMENT MARKING LINE 4", 30' SKIP, 10' DASH, YELLOW	(G)
THERMOPLASTIC PAVEMENT MARKING, LETTERS AND SYMBOLS, WHITE	(H)
THERMOPLASTIC PAVEMENT MARKING LINE 4", PARALLEL PARKING LINE, WHITE	(I)
THERMOPLASTIC PAVEMENT MARKING LINE 12", MEDIAN DIAGONALS @ 45°, YELLOW	(J)
THERMOPLASTIC PAVEMENT MARKING LINE 12", MEDIAN DIAGONALS @ 45°, WHITE	(K)
THERMOPLASTIC PAVEMENT MARKING LINE 4", NO PARKING AREA, YELLOW	(L)

**PROPOSED
IMPROVEMENT**



**PROPOSED
IMPROVEMENT**

Drawing file: W:\Projects\12090905 - Prairie Ave LAPP\PRairie Ave\PRairie Ave.dwg Aug 17, 2009 - 1:58pm

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USER NAME	DESIGNED	WOP	REVISED
	DRAWN	LEV/MK	
PLOT SCALE	CHECKED	JG	
PLOT DATE	DATE	8-17-09	

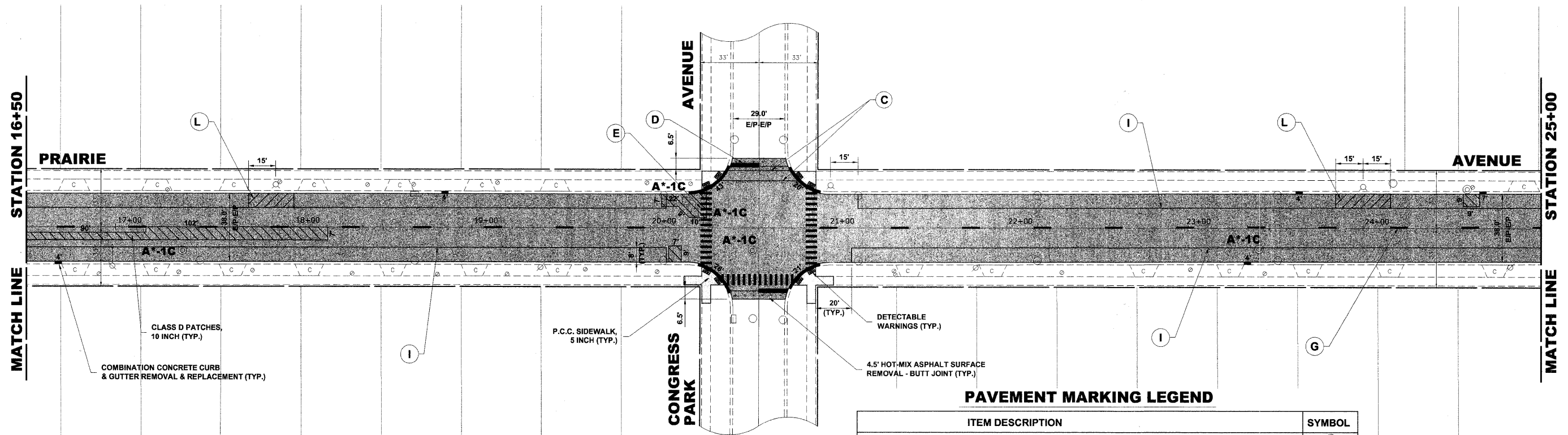
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

PRAIRIE AVENUE PAVING PLAN

SCALE: 1" = 30' SHEET NO. 1 OF 4 SHEETS STA. 1+03.0 TO STA. 16+50

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2732	09-00124-00-RS	COOK	22	11
CONTRACT NO. 63296			ARA-9003 (302)	

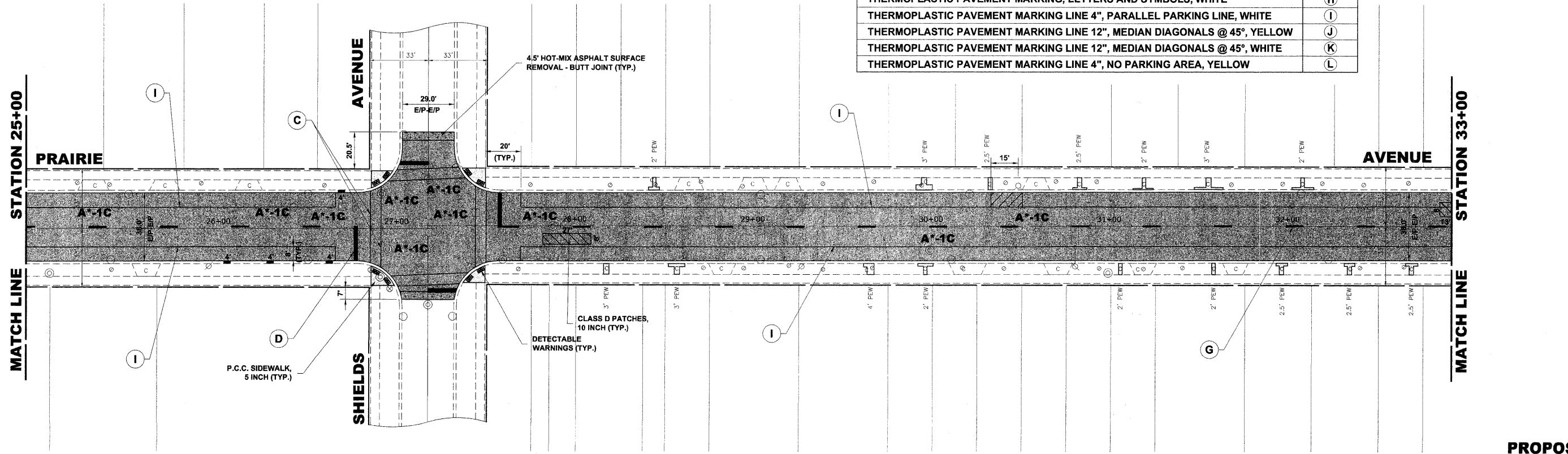
E.N.E. PROJECT NO. 125-09-09501



PAVEMENT MARKING LEGEND

ITEM DESCRIPTION	SYMBOL
THERMOPLASTIC PAVEMENT MARKING LINE 4", DOUBLE @ 11" C-C, YELLOW	(B)
THERMOPLASTIC PAVEMENT MARKING LINE 6", CROSS WALK, WHITE	(C)
THERMOPLASTIC PAVEMENT MARKING LINE 24", STOP BAR, WHITE	(D)
THERMOPLASTIC PVMT. MARKING LINE 12", SCHOOL CROSSWALK @ 36" C-C, WHITE	(E)
THERMOPLASTIC PAVEMENT MARKING LINE 6", TURN LANE LINE, WHITE	(F)
THERMOPLASTIC PAVEMENT MARKING LINE 4", 30' SKIP, 10' DASH, YELLOW	(G)
THERMOPLASTIC PAVEMENT MARKING, LETTERS AND SYMBOLS, WHITE	(H)
THERMOPLASTIC PAVEMENT MARKING LINE 4", PARALLEL PARKING LINE, WHITE	(I)
THERMOPLASTIC PAVEMENT MARKING LINE 12", MEDIAN DIAGONALS @ 45°, YELLOW	(J)
THERMOPLASTIC PAVEMENT MARKING LINE 12", MEDIAN DIAGONALS @ 45°, WHITE	(K)
THERMOPLASTIC PAVEMENT MARKING LINE 4", NO PARKING AREA, YELLOW	(L)

PROPOSED IMPROVEMENT



PROPOSED IMPROVEMENT

Drawing file: W:\Projects\12509095 - Prairie Ave LAPP\PRairie Ave\PRairie Ave.dwg Aug 17, 2009 - 3:51pm

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USER NAME	DESIGNED	WOP	REVISED
	DRAWN	LEV/MK	
PLOT SCALE	CHECKED	JG	
PLOT DATE	DATE	8-17-09	

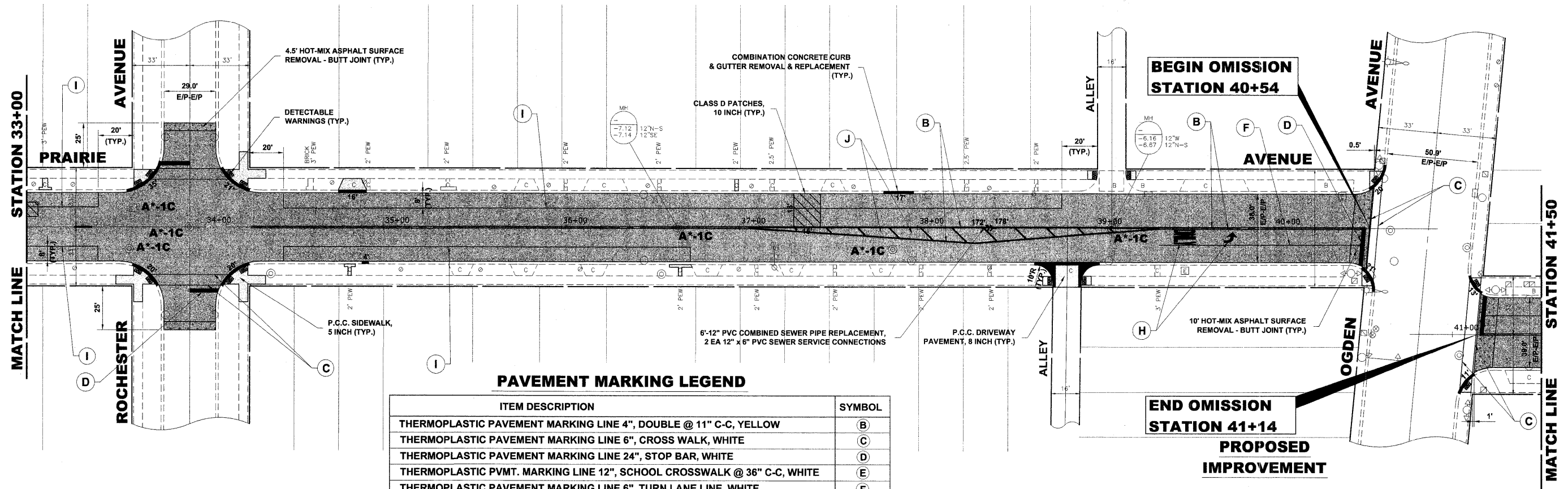
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

PRAIRIE AVENUE PAVING PLAN

SCALE: 1" = 30' SHEET NO. 2 OF 4 SHEETS STA. 16+50 TO STA. 33+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2732	09-00124-00-RS	COOK	22	12
CONTRACT NO. 63296			ARA-9003 (302)	

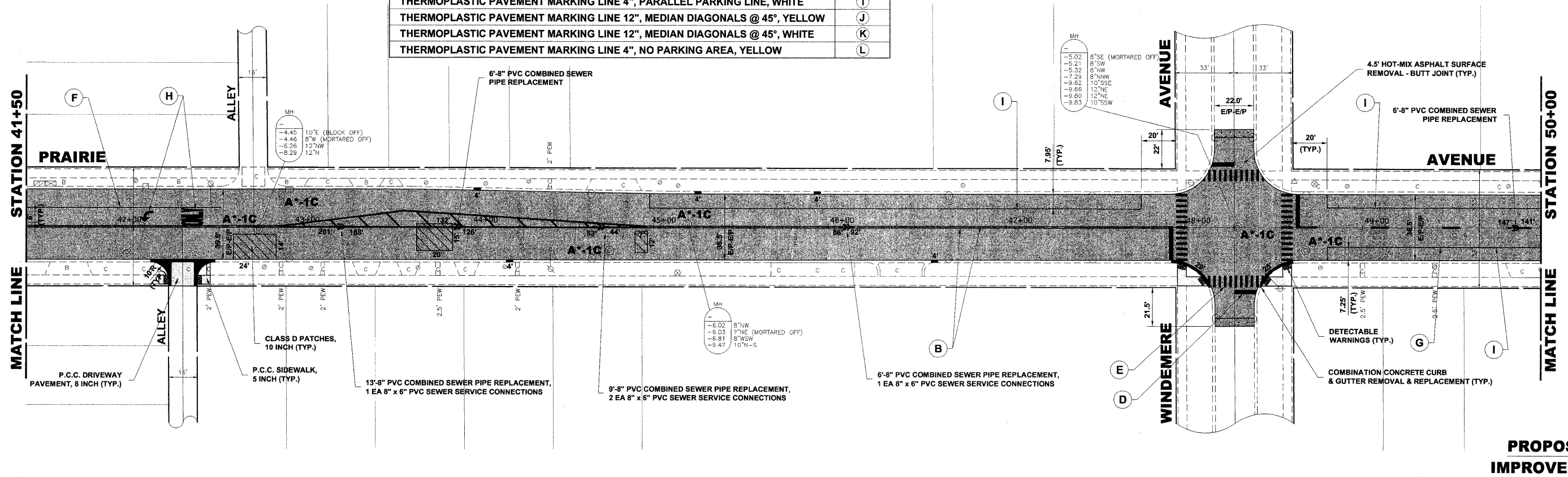
E.H.E. PROJECT NO. 125-09-09501



PAVEMENT MARKING LEGEND

ITEM DESCRIPTION	SYMBOL
THERMOPLASTIC PAVEMENT MARKING LINE 4", DOUBLE @ 11" C-C, YELLOW	(B)
THERMOPLASTIC PAVEMENT MARKING LINE 6", CROSS WALK, WHITE	(C)
THERMOPLASTIC PAVEMENT MARKING LINE 24", STOP BAR, WHITE	(D)
THERMOPLASTIC PVMT. MARKING LINE 12", SCHOOL CROSSWALK @ 36" C-C, WHITE	(E)
THERMOPLASTIC PAVEMENT MARKING LINE 6", TURN LANE LINE, WHITE	(F)
THERMOPLASTIC PAVEMENT MARKING LINE 4", 30' SKIP, 10' DASH, YELLOW	(G)
THERMOPLASTIC PAVEMENT MARKING, LETTERS AND SYMBOLS, WHITE	(H)
THERMOPLASTIC PAVEMENT MARKING LINE 4", PARALLEL PARKING LINE, WHITE	(I)
THERMOPLASTIC PAVEMENT MARKING LINE 12", MEDIAN DIAGONALS @ 45°, YELLOW	(J)
THERMOPLASTIC PAVEMENT MARKING LINE 12", MEDIAN DIAGONALS @ 45°, WHITE	(K)
THERMOPLASTIC PAVEMENT MARKING LINE 4", NO PARKING AREA, YELLOW	(L)

PROPOSED IMPROVEMENT



PROPOSED IMPROVEMENT

Drawing file: W:\Projects\12509095 - Prairie Ave LAPP\PRairie Ave\PRairie Ave.dwg Aug 17, 2009 - 9:33am



USER NAME	DESIGNED	WOP	REVISED
	DRAWN	LEV/MK	
PLOT SCALE	CHECKED	JG	
PLOT DATE	DATE	8-17-09	

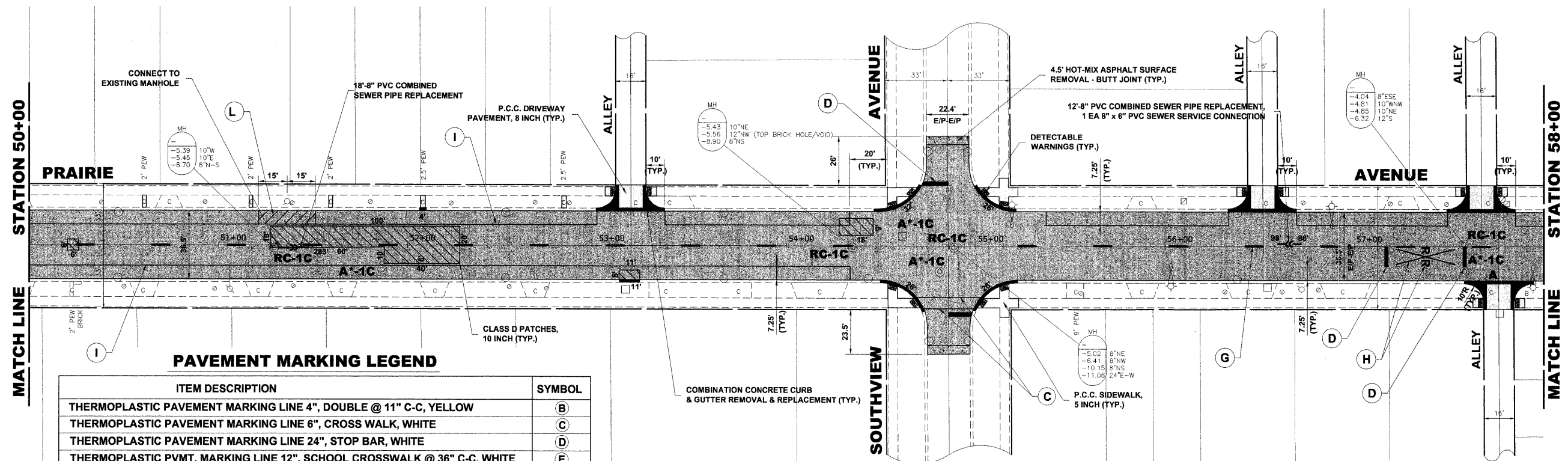
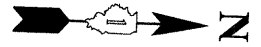
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

PRAIRIE AVENUE PAVING PLAN

SCALE: 1" = 30' SHEET NO. 3 OF 4 SHEETS STA. 33+00 TO STA. 50+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2732	09-00124-00-RS	COOK	22	13
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			CONTRACT NO. 63296	
			ARA-9003 (302)	

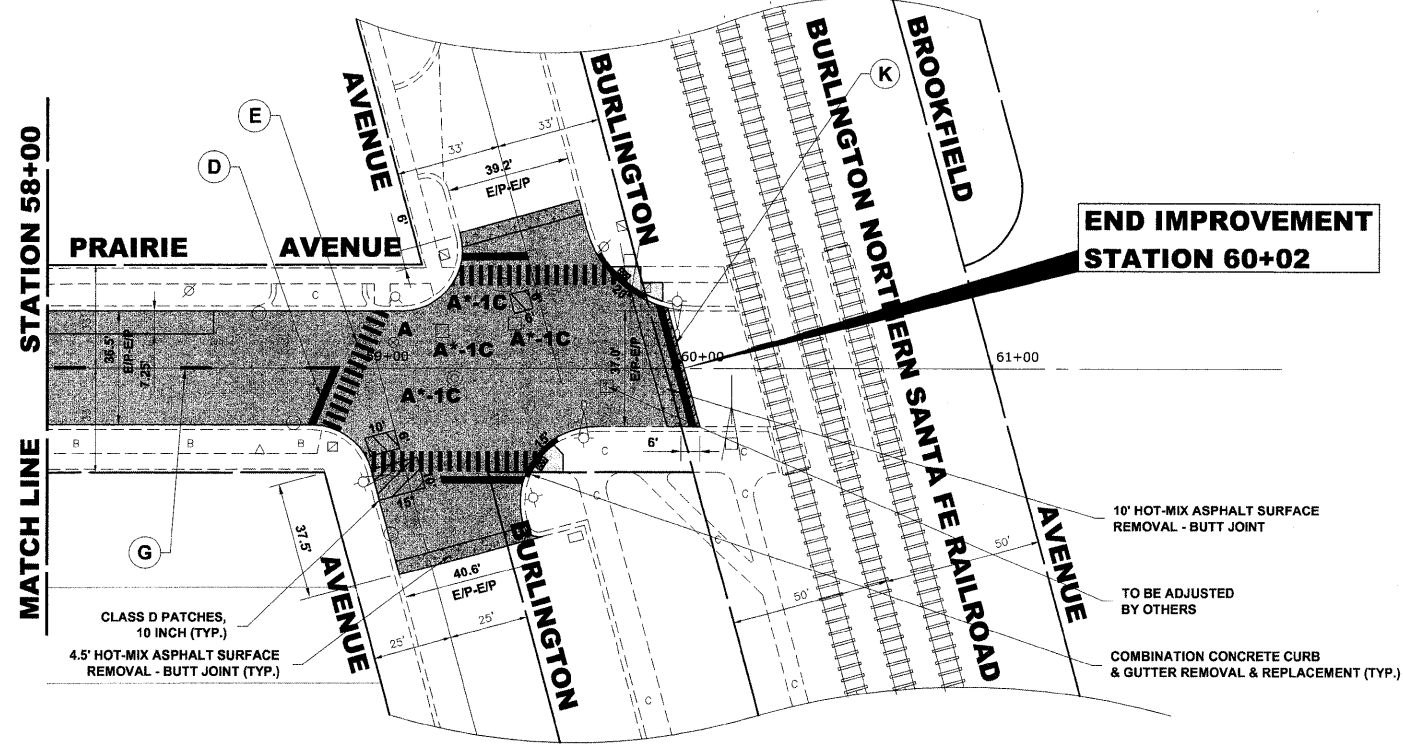
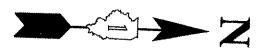
E.H.E. PROJECT NO. 125-09-09501



PAVEMENT MARKING LEGEND

ITEM DESCRIPTION	SYMBOL
THERMOPLASTIC PAVEMENT MARKING LINE 4", DOUBLE @ 11" C-C, YELLOW	(B)
THERMOPLASTIC PAVEMENT MARKING LINE 6", CROSS WALK, WHITE	(C)
THERMOPLASTIC PAVEMENT MARKING LINE 24", STOP BAR, WHITE	(D)
THERMOPLASTIC PVMT. MARKING LINE 12", SCHOOL CROSSWALK @ 36" C-C, WHITE	(E)
THERMOPLASTIC PAVEMENT MARKING LINE 6", TURN LANE LINE, WHITE	(F)
THERMOPLASTIC PAVEMENT MARKING LINE 4", 30' SKIP, 10' DASH, YELLOW	(G)
THERMOPLASTIC PAVEMENT MARKING, LETTERS AND SYMBOLS, WHITE	(H)
THERMOPLASTIC PAVEMENT MARKING LINE 4", PARALLEL PARKING LINE, WHITE	(I)
THERMOPLASTIC PAVEMENT MARKING LINE 12", MEDIAN DIAGONALS @ 45°, YELLOW	(J)
THERMOPLASTIC PAVEMENT MARKING LINE 12", MEDIAN DIAGONALS @ 45°, WHITE	(K)
THERMOPLASTIC PAVEMENT MARKING LINE 4", NO PARKING AREA, YELLOW	(L)

PROPOSED IMPROVEMENT



PROPOSED IMPROVEMENT

Drawing file: W:\Projects\12509095 - Prairie Ave\PRairie Ave\PRairie Ave.dwg Aug 17, 2009 - 2:04pm



USER NAME	DESIGNED	WOP	REVISED
	DRAWN	LEV/MK	
PLOT SCALE	CHECKED	JG	
PLOT DATE	DATE	8-17-09	

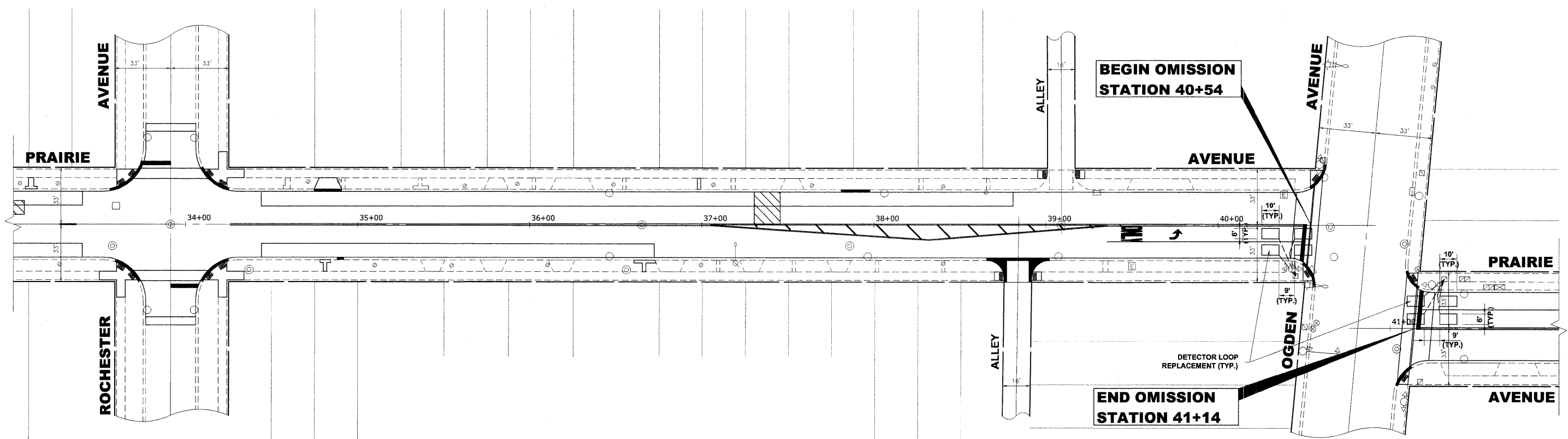
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

PRAIRIE AVENUE PAVING PLAN

SCALE: 1" = 30' SHEET NO. 4 OF 4 SHEETS STA. 50+00 TO STA. 60+02.0

P.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2732	09-00124-00-RS	COOK	22	14
CONTRACT NO. 63296			FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT ARA-9003 (302)	

E.H.E. PROJECT NO. 125-09-09501



Drawing file: W:\Projects\12509095 - Prairie Ave LAPP\PRAIRIE AVE.dwg Aug 17, 2009 - 9:34am

HANCOCK ENGINEERING
 Civil Engineers
 Municipal Consultants
 Established 1911

1993 Riverside Blvd
 Westchester, Illinois 60185-2796
 Phone: 708.945.8300
 Fax: 708.945.8333

USER NAME	DESIGNED	WOP	REVISED
	DRAWN	LEV/MK	
PLOT SCALE	CHECKED	JG	
PLOT DATE	DATE	8-17-09	

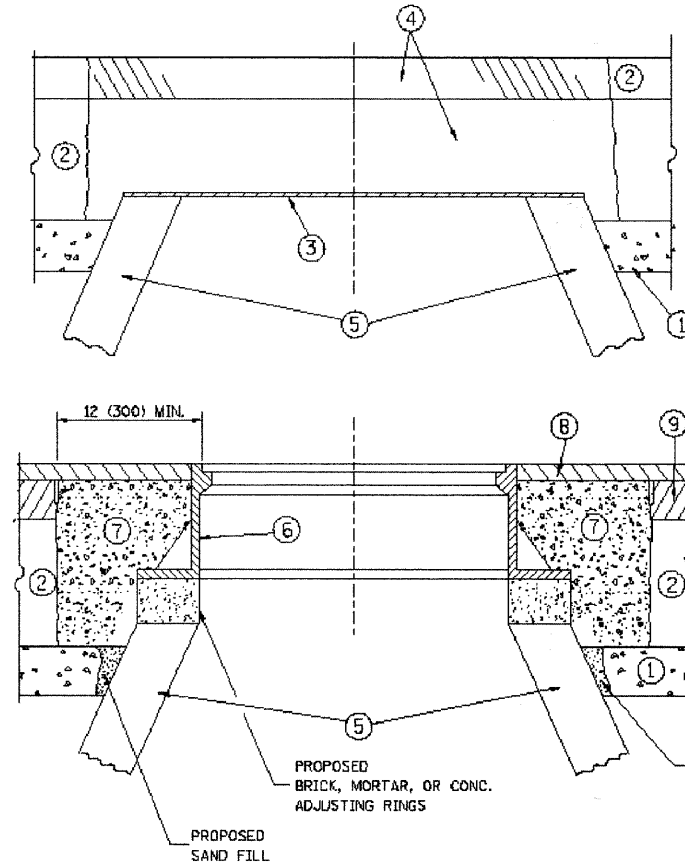
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**TRAFFIC SIGNAL DETECTOR LOOP
 REPLACEMENT PLAN**

SCALE: 1" = 30' SHEET NO. 1 OF 1 SHEETS STA. 33+00 TO STA. 41+50

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2732	09-00124-00-RS	COOK	22	15
CONTRACT NO. 63296			FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT ARA-9003 (302)	

E.H.E. PROJECT NO. 125-09-09501



CONSTRUCTION PROCEDURES

STAGE 1 (BEFORE PAVEMENT MILLING)

- A) REMOVE A MINIMUM OF 12 (300) OF THE PAVEMENT FROM AROUND THE STRUCTURE.
- B) REMOVE THE EXISTING FRAME AND LID FROM THE STRUCTURE.
- C) COVER THE STRUCTURE OPENING WITH A 36 (900) DIAMETER METAL PLATE.
- D) BACKFILL WITH CRUSHED STONE AND A MINIMUM 1 1/2 (40) THICK HMA SURFACE MIX APPROVED BY THE ENGINEER.

STAGE 2 (AFTER PAVEMENT MILLING)

- A) REMOVE THE HMA SURFACE MIX AND CRUSHED STONE.
- B) INSTALL THE FRAME AND LID; ADJUST THE FRAME TO ITS FINAL SURFACE ELEVATION.
- C) THE SURROUNDING SPACE SHALL BE FILLED WITH CLASS S1 CONCRETE, OR HMA SURFACE COURSE OR HMA BINDER COURSE TO THE ELEVATION OF THE SURFACE OF THE EXISTING BASE COURSE OR THE BINDER COURSE.

THE PROCEDURE EXPLAINED ABOVE SHALL CONFORM TO THE APPLICABLE PORTIONS OF SECTIONS 353, 406, 602, AND 603 OF THE STANDARD SPECIFICATIONS.

LEGEND

- ① SUB-BASE GRANULAR MATERIAL
- ② EXISTING PAVEMENT
- ③ 36 (900) DIAMETER METAL PLATE
- ④ PROPOSED CRUSHED STONE AND HMA SURFACE MIX
- ⑤ EXISTING STRUCTURE
- ⑥ FRAME AND LID (SEE NOTES)
- ⑦ CLASS S1 CONCRETE, HMA SURFACE COURSE OR HMA BINDER COURSE
- ⑧ PROPOSED HMA SURFACE COURSE
- ⑨ PROPOSED HMA BINDER COURSE

NOTES:

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.

IF THE EXISTING LIDS ARE OPEN, THE FRAME WILL BE ADJUSTED TO THE ELEVATION OF THE MILLED PAVEMENT SURFACE PRIOR TO THE MILLING OPERATION. THE FRAME WILL NOT BE REMOVED AND COVERED BY THE METAL PLATE.

CITY OF CHICAGO CASTINGS ARE THE PROPERTY OF THE CITY AND THE CONTRACTOR SHALL NOTIFY THE CITY FOR REMOVAL AND DISPOSITION OF THE CASTINGS.

THE METAL PLATE USED TO COVER THE STRUCTURE SHALL REMAIN THE PROPERTY OF THE CONTRACTOR.

WHEN STRUCTURES ARE TO BE ADJUSTED OR RECONSTRUCTED, THE LOWERING AND RAISING OF THE FRAMES AND LIDS WILL NOT BE PAID FOR SEPARATELY BUT WILL BE INCLUDED IN THE COST OF THE CORRESPONDING PAY ITEM.

LOCATION OF STRUCTURES:

THE CONTRACTOR WILL BE REQUIRED TO KEEP A RECORD OF THE LOCATIONS OF THE BURIED STRUCTURES ACCORDING TO THE STATION AND DISTANCE LEFT OR RIGHT OF THE CENTERLINE OF PAVEMENT. UPON COMPLETION OF THE WORK, THE CONTRACTOR WILL DELIVER THE RECORD TO THE ENGINEER.

BASIS OF PAYMENT: THIS WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER EACH FOR "FRAMES AND LIDS TO BE ADJUSTED, SPECIAL". NEW FRAMES AND LIDS, WHEN SPECIFIED, WILL BE PAID FOR SEPARATELY.

DETAILS FOR FRAMES AND LIDS ADJUSTMENT WITH MILLING

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN

Drawing file: W:\Projects\12509095 - Prairie Ave LAPP\MARKINGS.dwg Aug 17, 2009 - 1:11pm

FILE NAME =	USER NAME = geglsmobt	DESIGNED - R. SHAH	REVISED - R. SHAH 03-10-95	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DETAILS FOR FRAMES AND LIDS ADJUSTMENT WITH MILLING			F.A. RTE. = 2732	SECTION = 09-00124-00-RS	COUNTY = COOK	TOTAL SHEETS = 22	SHEET NO. = 16
W:\dststd\22c34\bd08.dwg		DRAWN -	REVISED - A. ABBAS 03-21-97		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA. TO STA.	B0000-03 (BD-0)		CONTRACT NO. 63296		
		PLOT SCALE = 50.0000 / 1 IN.	REVISED - R. WIEDEMAN 05-14-04		FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT - ARA-9003 (302)							
		PLOT DATE = 1/4/2006	DATE - 10-25-94		REVISED - R. BORD 01-01-07	E.H.E. PROJECT NO. 125-09-09501						

VARIABLE - TO MEET EXISTING DIMENSIONS AND FIELD CONDITIONS (SEE NOTE ②)

PROP. CONC. CURB OR CURB AND GUTTER REPLACEMENT IN ACCORDANCE WITH STATE STANDARD 606001. (SEE NOTE ②)

SAW CUT FULL DEPTH - INCLUDED IN THE COST OF SIDEWALK, DRIVEWAY OR MEDIAN SURFACE REMOVAL PAY ITEM.

SEE STATE STANDARD 606001

18" (450) MAX.

EXISTING OR PROPOSED HMA SURFACE (IF APPLICABLE)

1/4" (5) **

EXISTING SIDEWALK, DRIVEWAY, MEDIAN SURFACE OR GROUND.

PROPOSED SIDEWALK, DRIVEWAY PAVEMENT, MEDIAN SURFACE OR SALT TOLERANT SOD AND TOP SOIL, 4" (100) SOD RESTORATION (SEE NOTE ①).

EXISTING CONCRETE PAVEMENT, CONCRETE BASE COURSE OR FLEXIBLE PAVEMENT

T/2 *

SUITABLE BACKFILL MATERIAL (INCLUDED IN THE COST OF CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT)

3" (75) MIN.

PROPOSED 3/4" (20) PREFORMED EXPANSION JOINT AT CONCRETE SIDEWALKS, DRIVEWAYS, AND MEDIANS. (INCLUDED IN THE COST OF CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT.)

* 3" (75) MINIMUM FROM TOP AND BOTTOM OF THE CONCRETE PAVEMENT OR BASE COURSE.

** IF THE FINAL SURFACE OF THE PAVEMENT IS CONCRETE, THE GUTTER IS TO BE FLUSH WITH THE PAVEMENT.

NOTE: ① SIDEWALK, DRIVEWAY PAVEMENT OR MEDIAN SURFACE SHALL BE SIMILAR TO THE MATERIAL BEING REMOVED AND WILL BE PAID FOR SEPARATELY.

SALT TOLERANT SOD AND TOP SOIL, 4" (100) RESTORATION WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE COST OF CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT.

② CURB OR CURB AND GUTTER REPLACEMENT SHALL MATCH THE SHAPE OF THE EXISTING CURB OR CURB AND GUTTER UNLESS OTHERWISE SPECIFIED.

③ FOR CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT ADJACENT TO FLEXIBLE PAVEMENT DELETE EPOXY COATED TIE BARS.

④ LONGITUDINAL BARS, IF ENCOUNTERED IN THE EXISTING CURB OR CURB AND GUTTER, ARE NOT TO BE REPLACED. CUTTING AND REMOVING LONGITUDINAL BARS SHALL BE INCLUDED IN THE COST OF CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT.

⑤ THE COST OF HMA SURFACE REMOVAL IN THE EXISTING GUTTER FLAG SHALL BE INCLUDED IN THE COST OF THE CURB AND GUTTER REMOVAL AND REPLACEMENT.

⑥ THE REMOVAL AND REPLACEMENT OF THE EXISTING CURB OR CURB AND GUTTER SHALL BE DONE IN ACCORDANCE WITH THE APPLICABLE PORTIONS OF SECTION 440 AND 606 OF THE STANDARD SPECIFICATIONS.

⑦ THE LOCATIONS OF REMOVAL AND REPLACEMENT OF EXISTING CURB OR CURB AND GUTTER SHALL BE DETERMINED BY THE RESIDENT ENGINEER AT THE TIME OF CONSTRUCTION.

UNSUITABLE SUB-BASE MATERIAL TO BE REMOVED, IF DIRECTED BY THE ENGINEER, SHALL BE REPLACED WITH EITHER SUB-BASE GRANULAR MATERIAL, TYPE B OR ADDITIONAL THICKNESS OF CONCRETE.

REMOVAL AND REPLACEMENT 4" (100) OR LESS IS INCLUDED IN THE COST OF CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT.

REMOVAL AND REPLACEMENT IN EXCESS OF 4" (100) WILL BE PAID FOR IN ACCORDANCE WITH ARTICLE 109.04 OF THE STANDARD SPECIFICATIONS.

PROPOSED #6 (20) EPOXY COATED TIE BARS 24" (600) LONG AT 24" (600) CENTERS WILL NOT BE PAID FOR SEPARATELY. DELETE EPOXY COATED TIE BARS IF EXISTING TIE BARS ARE USUABLE AS DETERMINED BY THE ENGINEER. (SEE NOTE ③).

BASIS OF PAYMENT:

THIS WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER FOOT (METER) FOR "CURB REMOVAL AND REPLACEMENT" OR "COMBINATION CONCRETE CURB AND GUTTER REMOVAL AND REPLACEMENT".

CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT

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

Drawing file: W:\Projects\12509095 - Prairie Ave LPPV\MARKINGS.dwg Aug 17, 2009 - 1:08pm

FILE NAME = W:\data\22c34\bd24.dgn

USER NAME = gajlerobt

DESIGNED - A. HOUSEH

REVISED - R. SHAH 10-03-96

DRAWN -

REVISED - A. ABBAS 03-21-97

PLOT SCALE = 80,000 ' / IN.

CHECKED -

REVISED - M. GOMEZ 01-22-01

PLOT DATE = 1/4/2008

DATE - 03-11-94

REVISED - R. BORO 01-01-07

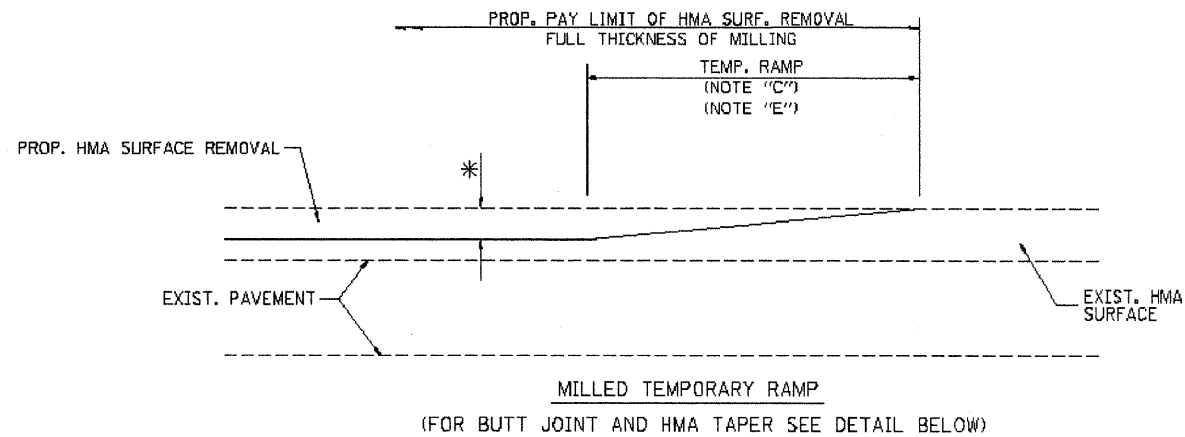
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**CURB OR CURB AND GUTTER
REMOVAL AND REPLACEMENT**

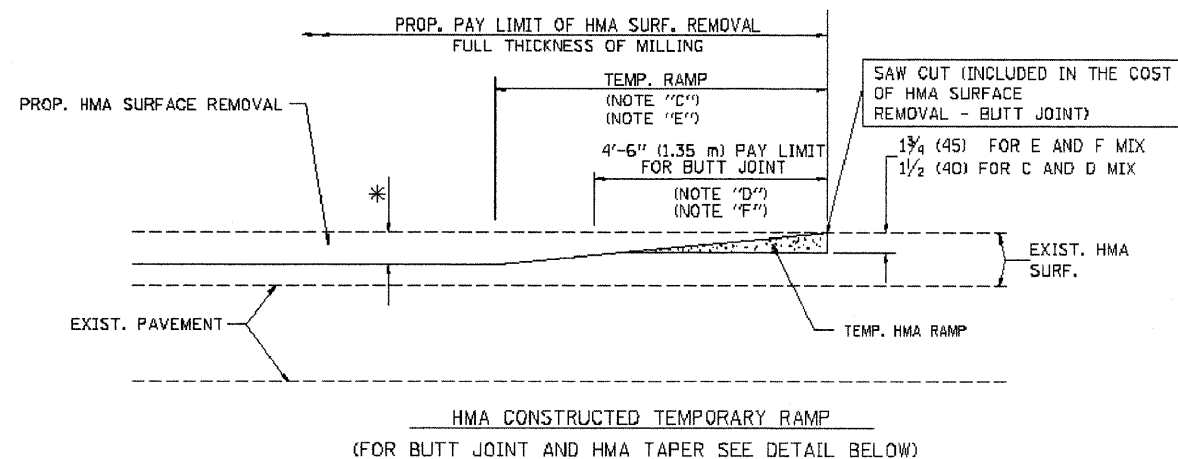
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F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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BD000-08 (BD-24)		CONTRACT NO. 63296		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT ARA-9003 (302)				

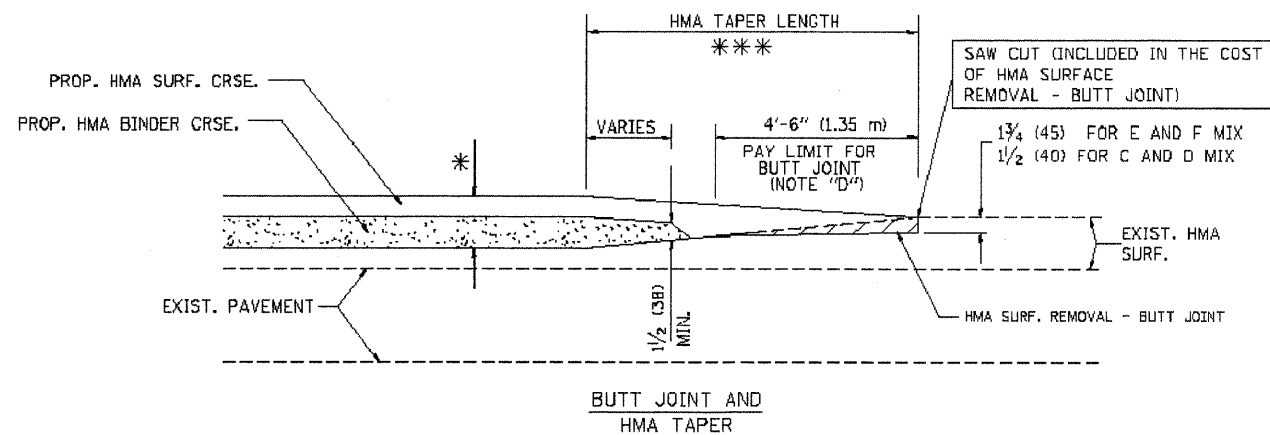
E.H.E. PROJECT NO. 125-09-09501



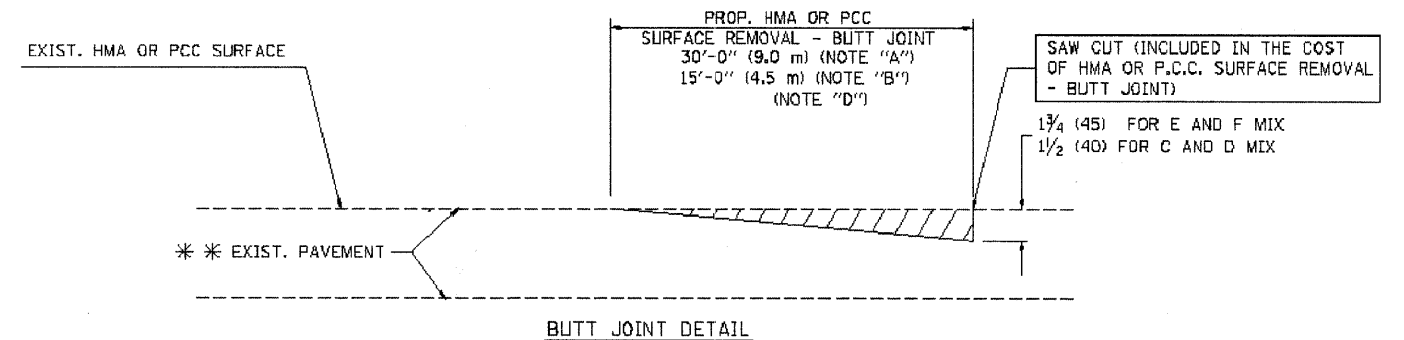
OPTION 1



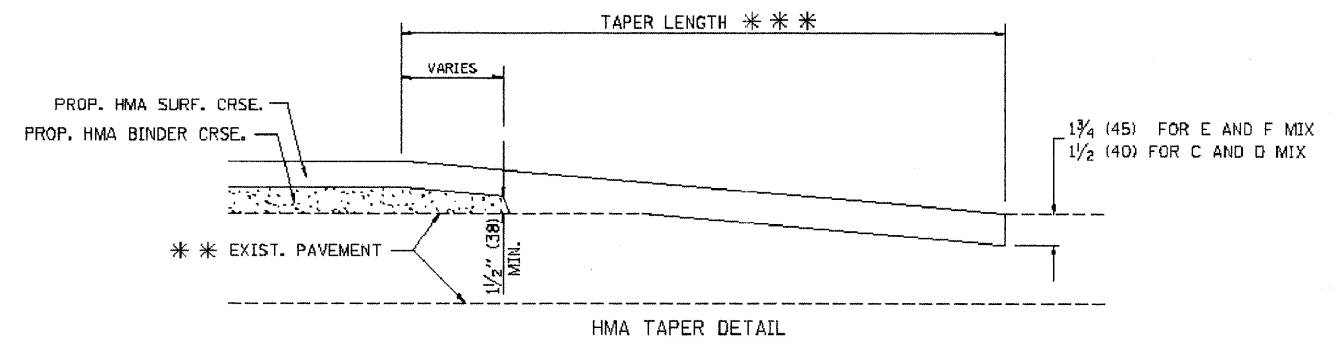
OPTION 2
TYPICAL TEMPORARY RAMP



TYPICAL BUTT JOINT AND HMA TAPER
FOR MILLING AND RESURFACING



BUTT JOINT DETAIL



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 (SQURE 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.

Drawing file: W:\Projects\12509005 - Prairie Ave LAPP\MARKINGS.dwg Aug 17, 2009 - 11:56am

FILE NAME =
W:\data\12509005\12509005.dgn

USER NAME = geglencb
PLOT SCALE = 50.0000' / IN
PLOT DATE = 1/4/2008

DESIGNED - M. DE YONG
DRAWN -
CHECKED -
DATE - 05-15-90

REVISED - R. SHAH 10-25-94
REVISED - A. ABBAS 03-21-97
REVISED - M. GOMEZ 04-06-01
REVISED - R. BORO 01-01-07

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

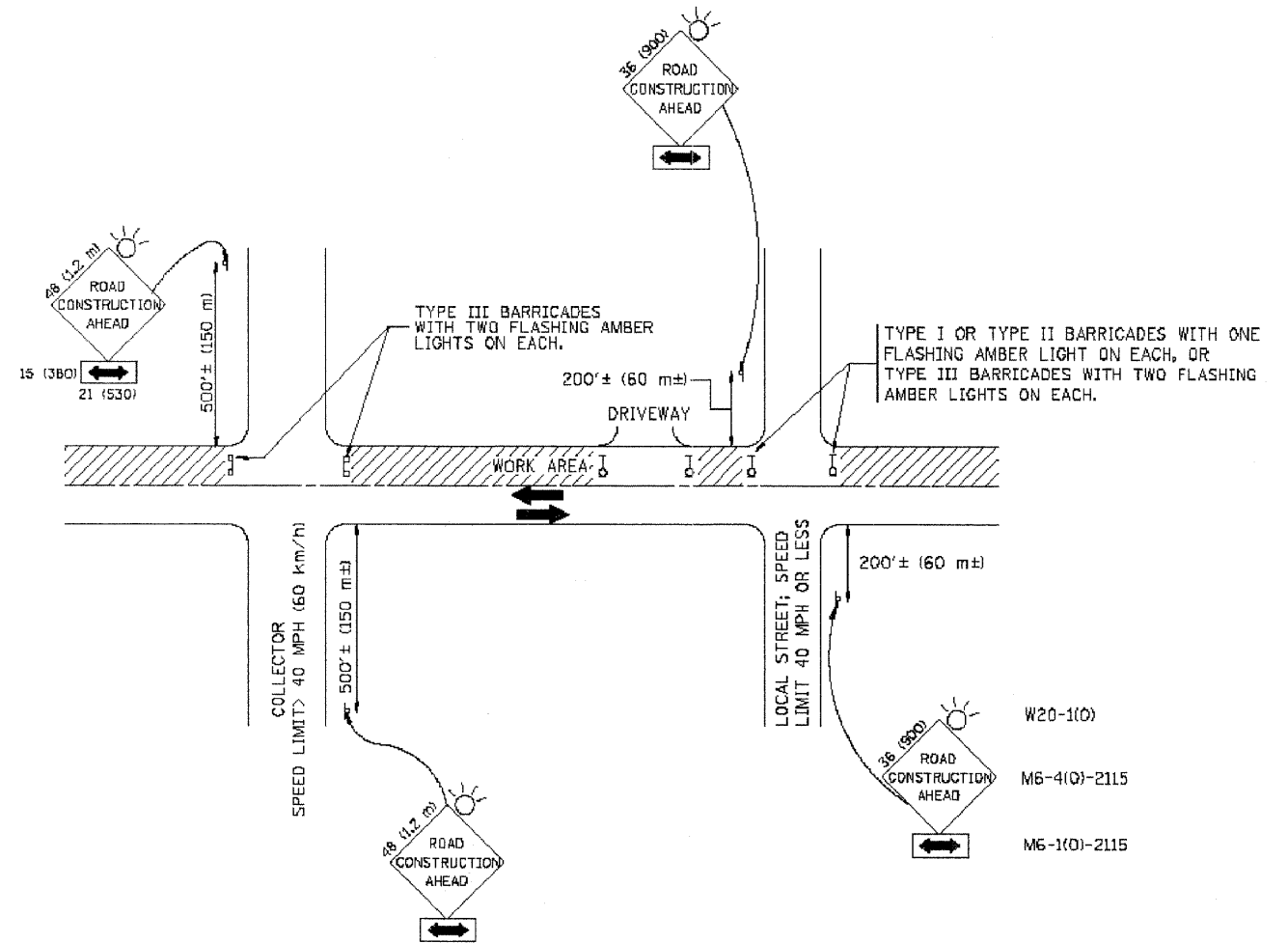
BUTT JOINT AND
HMA TAPER DETAILS

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

F.A. RTE. 2732	SECTION 09-00124-00-RS	COUNTY COOK	TOTAL SHEETS 22	SHEET NO. 18
RD400-05 RD32			CONTRACT NO. 63296	
PED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT ARA-9003 (302)				

E.H.E. PROJECT NO. 125-09-09501

Drawing file: W:\Projects\12509005 - Prairie Ave LAPP\MARKINGS.dwg Aug 17, 2009 - 11:48am



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 (MG-1) SHALL BE USED IN LIEU OF THE DOUBLE HEADED ARROW (MG-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.

FILE NAME = W:\data\12509005\12509005.dgn	USER NAME = geglerobst	DESIGNED - LHA	REVISED - J. OBERLE 10-18-95
		DRAWN -	REVISED - A. HOUSEH 03-06-96
		PLOT SCALE = 68.000 1/4 IN.	REVISED - A. HOUSEH 10-15-96
		PLOT DATE = 1/4/2008	REVISED - T. RAMMACHER 01-06-00

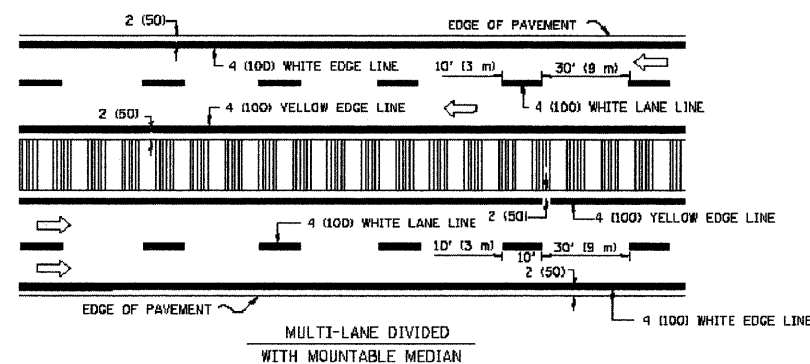
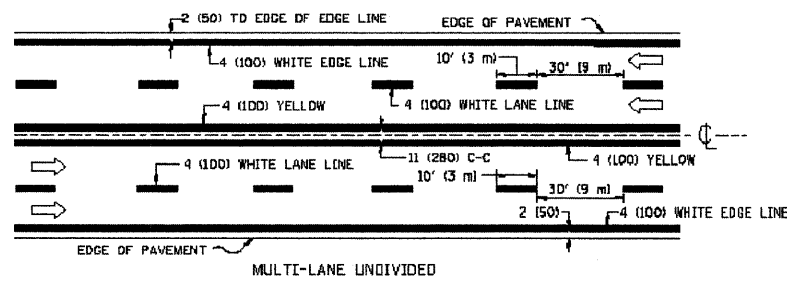
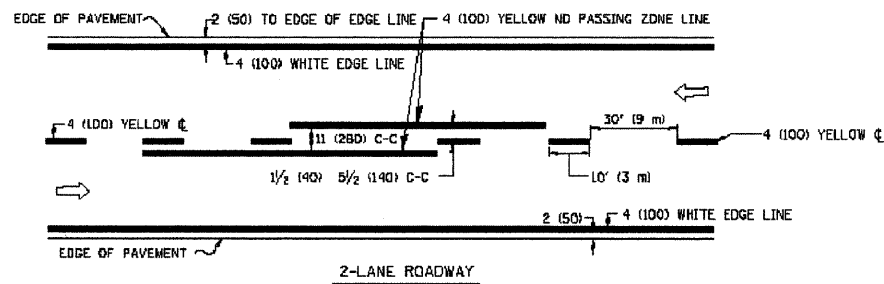
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

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

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

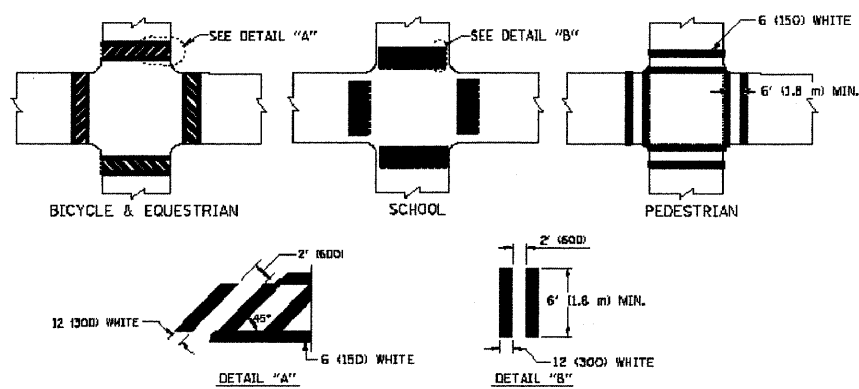
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TC-10			CONTRACT NO. 63296	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT ARA-9003 (302)				

E.H.E. PROJECT NO. 125-09-09501

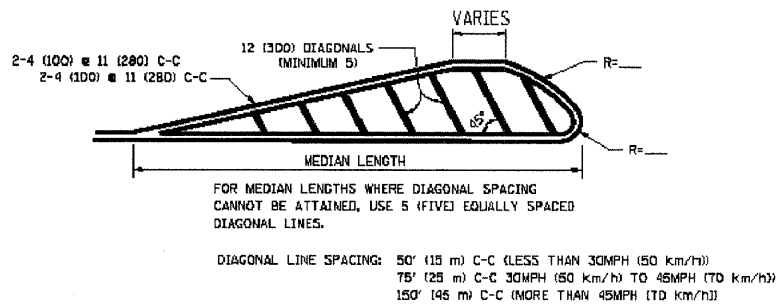
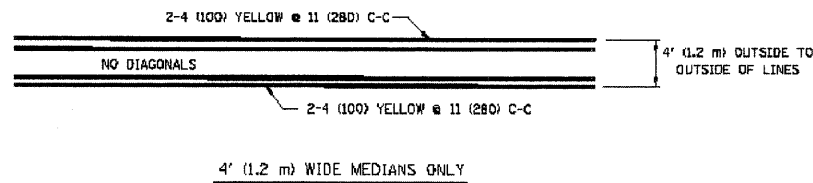


TYPICAL LANE AND EDGE LINE MARKING

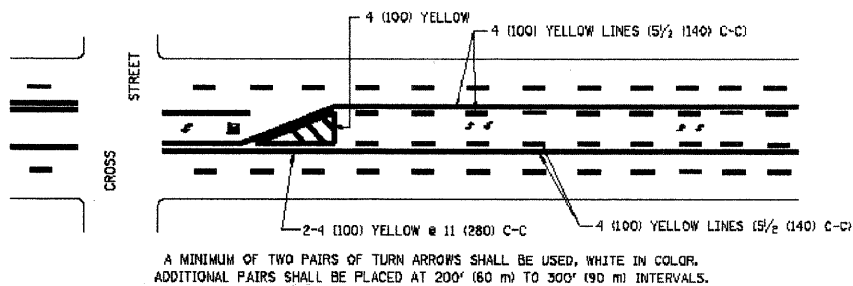
NOTE: MEDIANS WITH BARRIER CURB DO NOT REQUIRE AN EDGE LINE



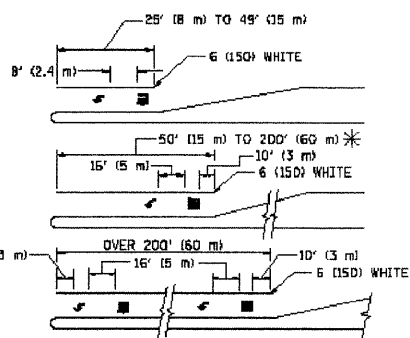
TYPICAL CROSSWALK MARKING



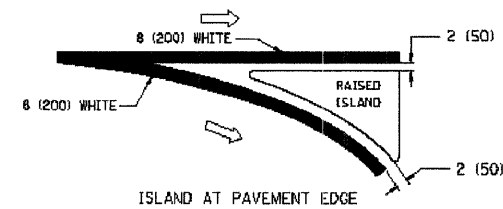
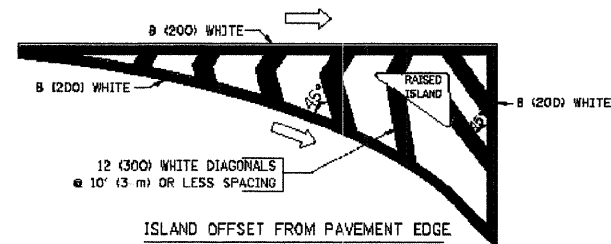
MEDIANS OVER 4' (1.2 m) WIDE



TYPICAL PAINTED MEDIAN MARKING



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 (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° 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.
CDRE 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 5' (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"=64.0 SQ. FT. (6.0 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.

Drawing file: W:\Projects\1250905 - Prairie Ave LAPP MARKINGS.dwg Aug 17, 2009 - 11:46am

FILE NAME = W:\Projects\1250905 - Prairie Ave LAPP MARKINGS.dwg	USER NAME = geglienobst	DESIGNED - EVERS	REVISED - T. RAMMACHER 10-27-94
		DRAWN -	REVISED - A. HOUSEH 10-09-96
	PLOT SCALE = 68.8880 ' / IN.	CHECKED -	REVISED - A. HOUSEH 10-17-96
	PLOT DATE = 1/4/2008	DATE - 03-19-90	REVISED - T. RAMMACHER 01-06-00

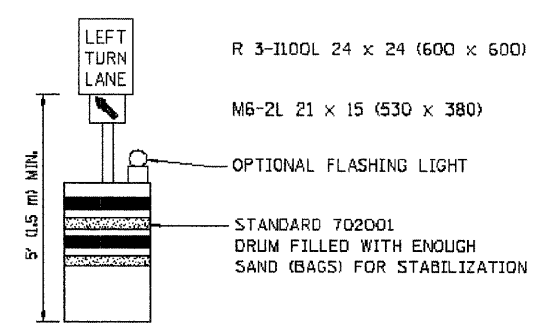
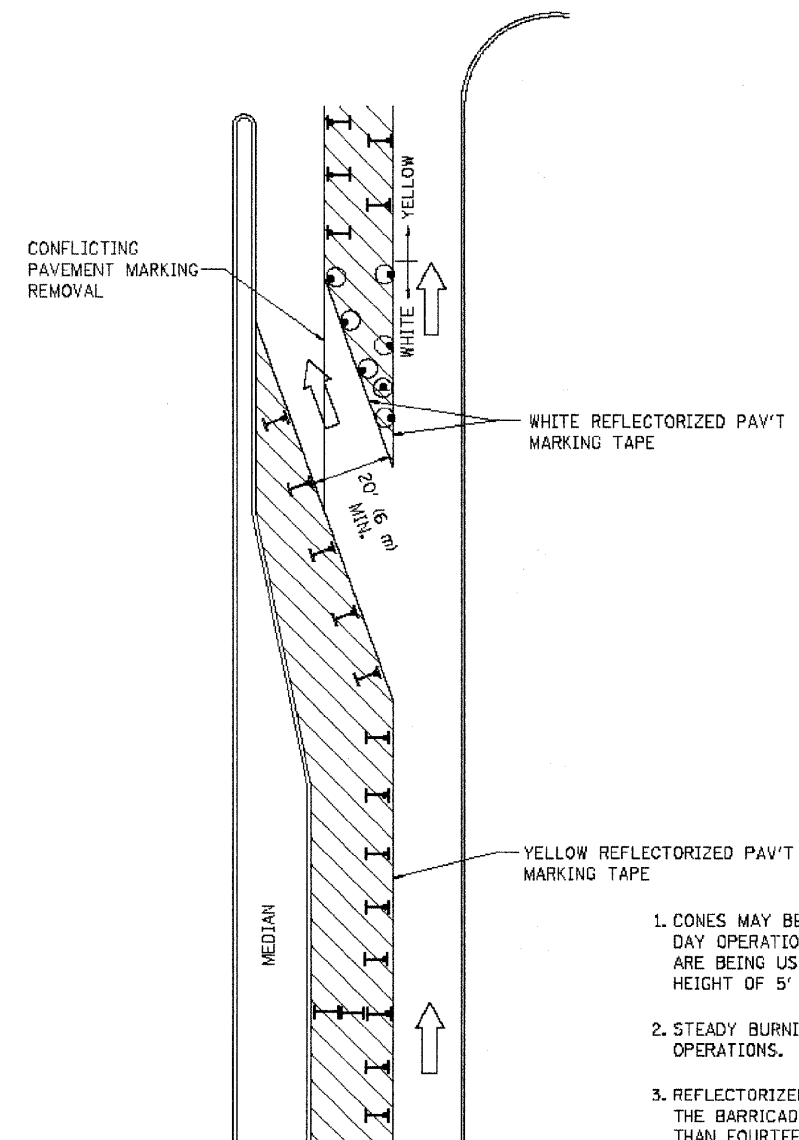
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**DISTRICT ONE
TYPICAL PAVEMENT MARKINGS**

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

F.A. RTE. 2732	SECTION 09-00124-00-RS	COUNTY COOK	TOTAL SHEETS 22	SHEET NO. 20
TC-13		CONTRACT NO. 63296		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT ARA-9003 (302)				
S.H.E. PROJECT NO. 125-09-09501				

Drawing file: W:\Projects\12500095 - Prairie Ave LAPP\MARKINGS.dwg Aug 17, 2009 - 11:30am



GENERAL NOTES

1. CONES MAY BE SUBSTITUTED FOR BARRICADES OR DRUMS AT HALF THE SPACING DURING DAY OPERATIONS. CONES SHALL BE A MINIMUM OF 28 (710) IN HEIGHT. WHEN CONES ARE BEING USED, THE "LEFT TURN LANE" SIGN MAY BE SKID MOUNTED AT A MINIMUM HEIGHT OF 5' (1.5 m).
2. STEADY BURNING LIGHTS WILL NOT BE REQUIRED ON BARRICADES OR DRUMS FOR DAY OPERATIONS. ALL LIGHTS SHALL BE MONODIRECTIONAL.
3. REFLECTORIZED TEMPORARY PAVEMENT MARKING TAPE SHALL BE PLACED THROUGHOUT THE BARRICADED AREA OF EACH TURN BAY WHERE THE CLOSURE TIME IS GREATER THAN FOURTEEN DAYS.
4. THIS APPLICATION ALSO APPLIES WHEN WORK IS BEING PERFORMED IN THE RIGHT LANE(S) AND THE RIGHT TURN BAY IS TO REMAIN OPEN. UNDER THIS CONDITION, "RIGHT TURN LANE" R3-100 24 x 24 (600 x 600) AND M6-2R 21 x 15 (530 x 380) SHALL BE USED.
5. THESE CONTROLS SHALL SUPPLEMENT MAINLINE TRAFFIC CONTROL FOR LANE CLOSURES.
6. LONGITUDINAL DIMENSIONS MAY BE ADJUSTED TO FIT FIELD CONDITIONS.
7. FORM BT 725 IS REQUIRED.
8. TRAFFIC CONTROL AND PROTECTION AT TURN BAYS (TO REMAIN OPEN TO TRAFFIC) SHALL BE INCLUDED IN THE COST SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

LEGEND

- WORK AREA
- LANE OPEN TO TRAFFIC
- TYPE I OR II BARRICADE WITH STEADY BURN LIGHT
- DRUM WITH STEADY BURN LIGHT
- DRUM WITH SIGN (WITH OPTIONAL FLASHING LIGHT) SEE DETAIL
- TYPE I OR II CHECK BARRICADE WITH FLASHING LIGHT

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

FILE NAME = W:\stand\22x34\1214.dgn	USER NAME = geglerobt	DESIGNED - DRAWN -	REVISED -T. RAMMACHER 09-08-94 REVISED - A. HOUSEH 11-07-95 REVISED - A. HOUSEH 10-12-96
PLOT SCALE = 50.0000 / IN	CHECKED -	DATE -	REVISED -T. RAMMACHER 01-06-00
PLOT DATE = 1/4/2008			

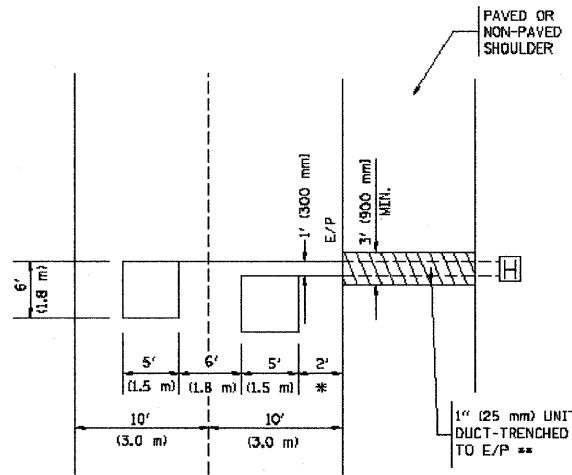
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

TRAFFIC CONTROL AND PROTECTION AT TURN BAYS (TO REMAIN OPEN TO TRAFFIC)			
SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.

F.A. RTE. 2732	SECTION 09-00124-00-RS	COUNTY COOK	TOTAL SHEETS 22	SHEET NO. 21
TC-14		CONTRACT NO. 63296		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT ARA-9003 (302)				
E.H.E. PROJECT NO. 125-09-09501				

LOOPS NEXT TO SHOULDERS

PROVIDE A PAVEMENT REPLACEMENT
NOTE WHICH SHOULD EQUAL
3' (900 mm) X WIDTH OF
PAVED SHOULDER.

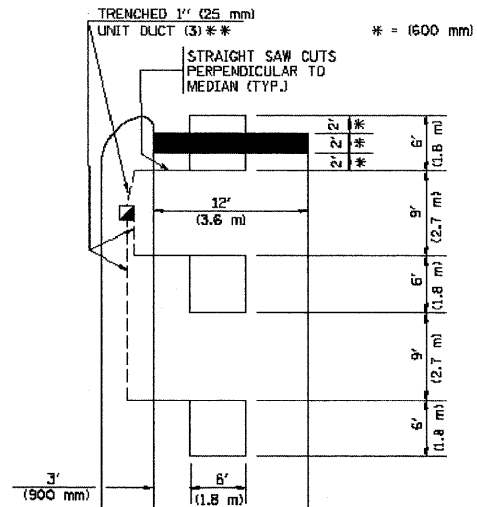


* = (600 mm)

** UNIT DUCT IS TO BE SHOWN ON PLAN SHEETS
BUT SHALL NOT BE INCLUDED IN THE PAY ITEMS.

**LEFT TURN LANES WITH MEDIANS
VOLUME DENSITY ("FAR OUT" DETECTION)
ON SAME APPROACH
(PROTECTED / PERMITTED LEFT TURN PHASING)**

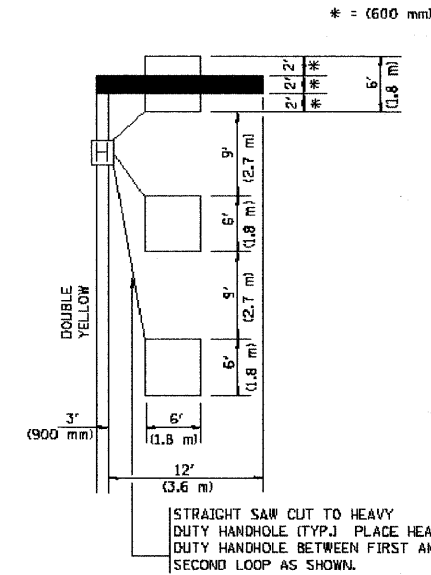
HANDHOLE LOCATION MAY
VARY DEPENDING ON GEOMETRICS
AND DESIGN OF TRAFFIC SIGNALS.
HEAVY-DUTY HANDHOLES TO BE
USED WHEN THE MEDIAN IS
MOUNTABLE. REFER TO STANDARD
B1400L TO ENSURE THAT HANDHOLE
FITS IN MEDIAN.



** UNIT DUCT IS TO BE SHOWN ON PLAN SHEETS
BUT SHALL NOT BE INCLUDED IN THE PAY ITEMS.

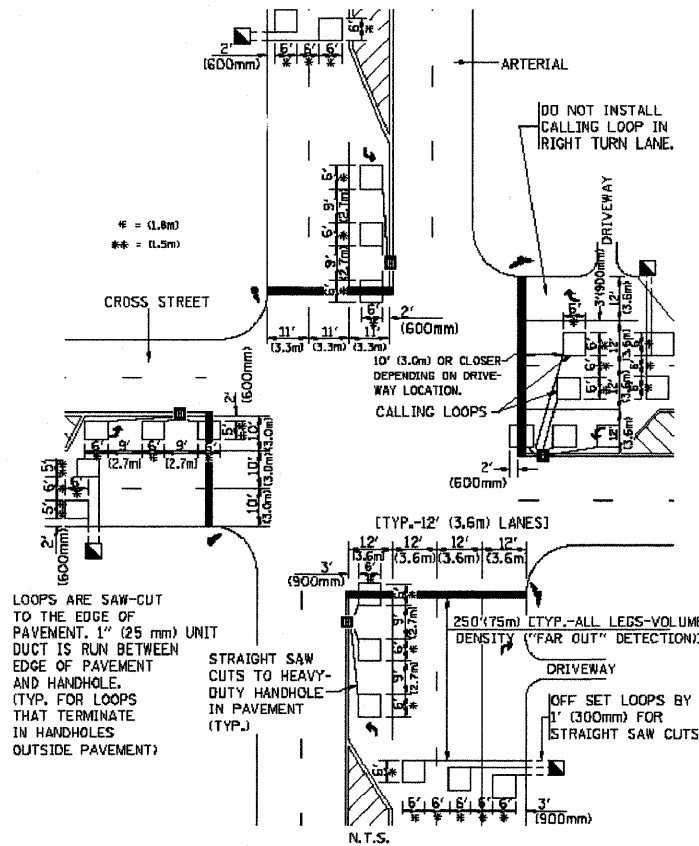
NOTE: DUAL LEFT TURNS NOT SHOWN REFER TO
PLAN SHEET FOR DETECTOR LOOP REPLACEMENT

**LEFT TURN LANES WITHOUT MEDIANS
VOLUME DENSITY ("FAR OUT" DETECTION)
ON SAME APPROACH
(PROTECTED / PERMITTED LEFT TURN PHASING)**



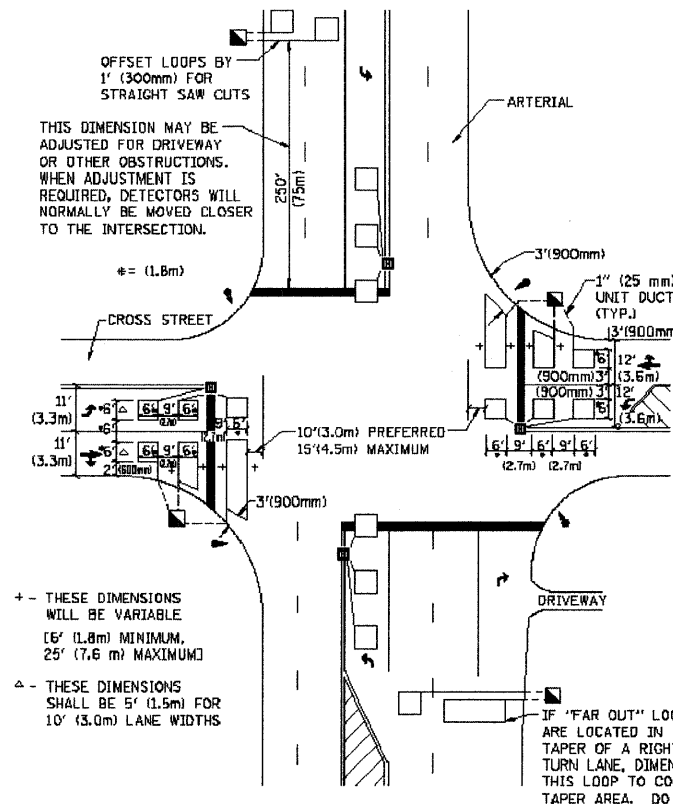
NOTE: DUAL LEFT TURNS NOT SHOWN REFER TO
PLAN SHEET FOR DETECTOR LOOP REPLACEMENT

**ARTERIAL-VOLUME DENSITY ("FAR OUT" DETECTION)
CROSS STREET-VOLUME DENSITY ("FAR OUT" DETECTION)**



DETAIL 1
N.T.S.

**ARTERIAL-VOLUME DENSITY ("FAR OUT" DETECTION)
CROSS STREET-NON VOLUME DENSITY ("UPTIGHT" PRESENCE DETECTION)**



DETAIL 2
N.T.S.

NOTES:

VEHICLES LOOP DETECTORS

- * ALL LEAD IN CABLE SHALL BE TWO CONDUCTOR NO. 14 TWISTED, SHIELDED.
- * EACH DETECTOR LOOP SHALL HAVE ITS OWN SAW CUT FROM THE LOOP TO THE EDGE OF PAVEMENT OR TO A HANDHOLE IN THE PAVEMENT.
- * EACH DETECTOR LOOP SHALL HAVE ITS OWN ONE INCH (25 mm) UNIT DUCT BETWEEN THE EDGE OF PAVEMENT AND THE FIRST HANDHOLE OR JUNCTION BOX. EACH UNIT DUCT RUN SHALL BE SHOWN ON THE PLANS BY THE DESIGNER, BUT SHALL NOT BE PAID FOR SEPARATELY. THIS ITEM IS INCIDENTAL TO THE PAY ITEM FOR DETECTOR LOOPS.
- * ONE DIMENSION OF ALL DETECTOR LOOPS SHALL BE SIX FEET (1.8 m)
- * EACH LANE OF NON-LOCKING, PRESENCE DETECTION AND EACH LANE OF A DOUBLE LEFT TURN LANE REQUIRES A SEPARATE INDUCTIVE LOOP DETECTOR AND LEAD IN CABLE.
- * WHEN NON-LOCKING, PRESENCE DETECTION IS USED, MORE THAN ONE LOOP PER LANE IS REQUIRED BEHIND THE STOP BAR (i.e. 1-1/2, 1-3/4, 2).
- * WHEN SYSTEM LOOPS ARE REQUIRED ON AN APPROACH OF AN INTERSECTION, THE LOOPS USED FOR VOLUME DENSITY AND INTERSECTION TIMING SHALL ALSO BE USED AS SYSTEM DETECTORS. EACH ONE OF THESE TYPE OF LOOPS REQUIRES A SEPARATE TWO CONDUCTOR NO. 14 TWISTED SHIELDED CABLE AND A SEPARATE INDUCTIVE LOOP DETECTOR WHEN NEW CONTROLLERS ARE UTILIZED. THE DESIGNER SHALL LABEL THESE TYPES OF LOOPS AS "INTERSECTION AND SAMPLING (SYSTEM) DETECTORS" ON THE SIGNAL LAYOUT, THE INTERCONNECT PLAN AND THE SYSTEM CABLE PLAN. WHEN AN EXISTING CONTROLLER IS UTILIZED FOR THIS TYPE OF DETECTION, THE PAY ITEM "INDUCTIVE LOOP DETECTOR WITH SYSTEM OUTPUT" SHOULD BE USED.

PLACEMENT OF DETECTORS

THE FOLLOWING FIGURES REPRESENT THE MOST COMMON DETECTOR LOOP LOCATIONS AND SIZES. ADJUSTMENTS WILL BE NECESSARY FOR SPECIFIC GEOMETRIC CONSIDERATIONS.

LOCATIONS AND DEMENSIONS OF DETECTOR LOOPS ARE REQUIRED ON ALL SIGNAL LAYOUT PLAN SHEETS.

"FAR OUT" DETECTION REFERS TO LOCKING, PRESENCE TYPE DETECTION LOCATED IN THRU LANES, RIGHT TURN LANES, AND RIGHT TURN LANE TAPER AREAS (IF APPLICABLE), USUALLY 250' (75 m) IN ADVANCE OF STOP BARS. "UPTIGHT" DETECTION REFERS TO NON-LOCKING PRESENCE TYPE DETECTION LOCATED IN ALL LANES AND 10'-15' (3.0 m-4.5 m) BEHIND THE CROSSING STREET'S EDGE OF PAVEMENT EXTENDED.

NOTE:

ALL DETAILS AND NOTES SHOWN ARE FROM THE I.D.O.T. DISTRICT 1 TRAFFIC SIGNAL DESIGN GUIDELINES DATED JANUARY 1995

THIS DRAWING HAS BEEN PREPARED TO ASSIST THE RESIDENT ENGINEER FOR ALL ROADWAY RESURFACING OR S.M.A.R.T. PROJECTS WHERE THE DIMENSIONS ARE NOT SHOWN ON THE PLANS AND THE FINAL LOCATIONS FOR CROSSWALKS OR STOP BARS ARE NOT DETERMINED.

FILE NAME =
W:\distatd\22x34\td07.dgn

USER NAME = geglancbt
PLOT SCALE = 58.0000 / 1" = 100'
PLOT DATE = 1/4/2008

DESIGNED -
DRAWN -
CHECKED - R.K.F.
DATE -

REVISED -
REVISED -
REVISED -
REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**DISTRICT 1 - DETECTOR LOOP INSTALLATION
DETAILS FOR ROADWAY RESURFACING**

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2732	09-00124-00-RS	COOK	22	22
TS-07			CONTRACT NO. 63296	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT ARA-9003 (302)				