

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3533	09-00070-00-RS	COOK	16	1
		ILLINOIS	CONTRACT NO. 63254	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

PLANS FOR PROPOSED FEDERAL AID HIGHWAY

LOCAL AGENCY PAVEMENT PRESERVATION (LAPP)
F.A.U. 3533 (FRANKLIN AVENUE)
RUBY ST. TO ROSE ST.

SECTION 09-00070-00-RS
PROJECT HPP-ARA-9003(382)
RESURFACING
VILLAGE OF FRANKLIN PARK
COOK COUNTY
JOB NUMBER C-91-751-09



STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

APPROVED 7-16 2009
[Signature]
VILLAGE OF FRANKLIN PARK, DIRECTOR OF PUBLIC WORKS

PASSED July 29 2009
[Signature]
DISTRICT 1 ENGINEER OF LOCAL ROADS & STREETS

RELEASING FOR BID
BASED ON LIMITED
REVIEW July 22 2009
[Signature]
DEPUTY DIRECTOR OF HIGHWAYS, REGION 1 ENGINEER

PROFESSIONAL ENGINEER'S SIGN & SEAL

[Signature]
THOMAS M. WALSH, P.E.
EXPIRES: 11-30-09

**PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS**

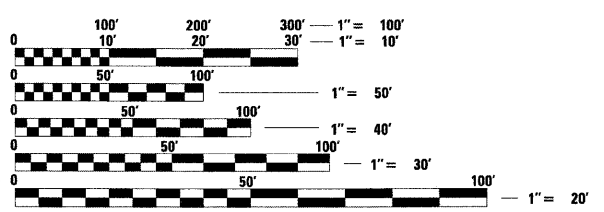
FOR INDEX OF SHEETS, SEE SHEET NO. 2

TRAFFIC DATA
FRANKLIN AVE.
2008 ADT = 12,500
2009 ADT = 12,900

DESIGN DESIGNATION
1290 (29) ARTERIAL 0.25 (RS-20)

DESIGN SPEED = 30 MPH
POSTED SPEED = 30 MPH

PROJECT IS LOCATED IN THE
VILLAGE OF FRANKLIN PARK



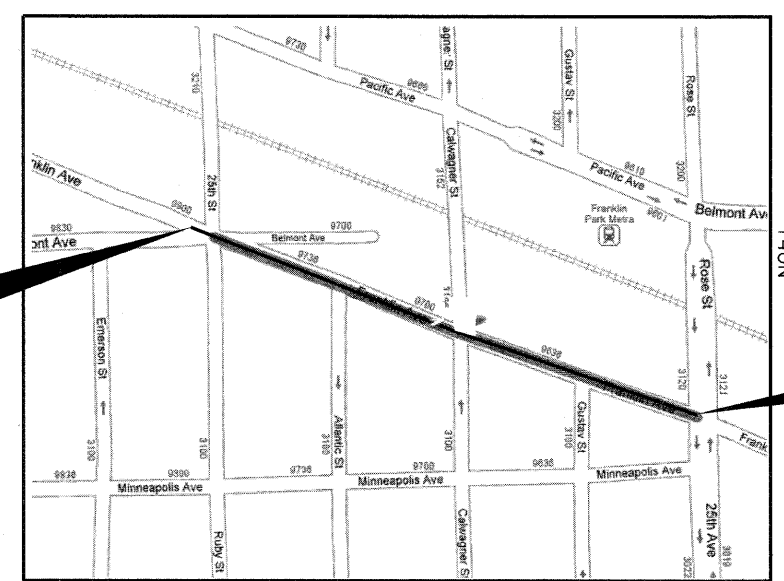
FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

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



CONTRACT NO. 63254

PROJECT BEGINS
STA. 9 + 21.7



PROJECT ENDS
STA. 24 + 00.0

3RD PRINCIPAL MERIDIAN R 12 E LEYDEN TOWNSHIP

**LOCATION MAP
SCALE**
NOT TO SCALE

GROSS LENGTH = 1,478 FT. = 0.280 MILE
NET LENGTH = 1,478 FT. = 0.280 MILE

FIELD ENGINEER: MARILYN SOLOMON (847) 705-4407

SHEET NUMBER	TITLE
1	COVER SHEET
2	INDEX OF SHEETS, LISTING OF APPLICABLE HIGHWAY STANDARDS, GENERAL NOTES
3	SUMMARY OF QUANTITIES
4 - 5	TYPICAL SECTIONS
6 - 7	SCHEDULES OF QUANTITIES
8	ALIGNMENT
9	PAVEMENT MARKING AND DETECTOR LOOP DETAILS
	DISTRICT ONE STANDARD DETAILS
10	BD08 FRAMES AND LIDS ADJUSTMENT WITH AND WITHOUT MILLING
11	BD22 PAVEMENT PATCHING FOR HMA SURFACED PAVEMENT
12	BD24 CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT
13	BD32 BUTT JOINTS AND HMA TAPER
14	TC10 TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS AND DRIVEWAYS
15	TC13 DISTRICT ONE TYPICAL PAVEMENT MARKINGS
16	TS07 DETECTOR LOOP INSTALLATION DETAIL FOR ROADWAY RESURFACING
	HIGHWAY STANDARDS

LIST OF APPLICABLE STATE STANDARDS	
000001-05	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
424001-05	CURB RAMPS FOR SIDEWALKS
442201-03	CLASS C AND D PATCHES
606001-04	CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB AND GUTTER
701501-05	URBAN LANE CLOSURE, 2L, 2W, UNDIVIDED
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 INSTALLATIONS
886006-01	TYPICAL LAYOUT FOR DETECTION LOOPS

GENERAL NOTES

- ALL REFERENCES TO "STANDARD SPECIFICATIONS" IN THESE GENERAL NOTES AND THE PLANS SHALL BE INTERPRETED TO MEAN THE CURRENT EDITION OF THE "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" ADOPTED BY THE ILLINOIS DEPARTMENT OF TRANSPORTATION.
- ALL ITEMS WILL BE CONSTRUCTED IN ACCORDANCE WITH THE ILLINOIS DEPARTMENT OF TRANSPORTATION (IDOT) "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION", CURRENT EDITION AND SUPPLEMENT, EXCEPT AS MODIFIED TO CONFORM WITH VILLAGE OF FRANKLIN PARK REQUIREMENTS.
- ALL REFERENCES TO "ENGINEER" SHALL BE INTERPRETED TO MEAN THE RESIDENT ENGINEER.
- ONE (1) SET OF APPROVED PLANS MUST BE ON THE SITE AT ALL TIMES.
- PRIOR TO COMMENCEMENT OF CONSTRUCTION, THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS AFFECTING THEIR WORK WITH THE ACTUAL CONDITIONS AT THE JOB SITE. IN ADDITION, THE CONTRACTOR MUST VERIFY THE ENGINEER'S LINE AND GRADE STAKES. IF THERE ARE ANY DISCREPANCIES FROM WHAT IS SHOWN ON THE CONSTRUCTION PLANS, HE/SHE MUST IMMEDIATELY REPORT SAME TO THE ENGINEER BEFORE DOING ANY WORK; OTHERWISE THE CONTRACTOR ASSUMES FULL RESPONSIBILITY. IN THE EVENT OF DISAGREEMENT BETWEEN THE CONSTRUCTION PLANS, STANDARD, SPECIFICATIONS AND/OR SPECIAL DETAILS, THE CONTRACTOR SHALL SECURE WRITTEN INSTRUCTIONS FROM THE ENGINEER PRIOR TO PROCEEDING WITH ANY PART OF THE WORK AFFECTED BY OMISSIONS OR DISCREPANCIES AILING TO SECURE SUCH INSTRUCTIONS THE CONTRACTOR WILL BE CONSIDERED TO HAVE PROCEEDED AT HIS OWN RISK AND EXPENSE. IN THE EVENT OF ANY DOUBT OR QUESTION ARISING WITH RESPECT TO THE TRUE MEANING OF THE CONSTRUCTIONS PLANS OR SPECIFICATIONS, THE DECISION OF THE ENGINEER SHALL BE FINAL AND CONCLUSIVE.
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO ASCERTAIN EXISTING FIELD CONDITIONS PRIOR TO BIDDING ON THE PROJECT.
- THE VILLAGE OF FRANKLIN PARK PUBLIC WORKS DEPARTMENT, 847-671-8252, MUST BE NOTIFIED TWENTY-FOUR (24) HOURS IN ADVANCE FOR INSPECTIONS. BEFORE STARTING ANY EXCAVATION, THE CONTRACTOR SHALL CALL "JULIE" (JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION) AT 8-1-1 AND THE VILLAGE OF FRANKLIN PARK AT FOR FIELD LOCATIONS OF BURIED UTILITIES (48 HOURS NOTIFICATION IS REQUIRED).
- THE CONTRACTOR WILL NOT BE ALLOWED TO SET UP A YARD OR FIELD OFFICE ON STATE OR CITY PROPERTY WITHOUT WRITTEN PERMISSION FROM THE DEPARTMENT OR CITY.
- SAW CUTTING OF PAVEMENTS, SIDEWALK, ETC. SHALL BE TO THE DEPTH REQUIRED FOR REMOVAL SPECIFIED AND SHALL RESULT IN A CLEAN STRAIGHT EDGE ON THE PORTION REMAINING. ALL SAW CUTTING SHALL BE CONSIDERED INCLUDED IN THE COST OF THE ITEM REMOVED.
- THE CONTRACTOR SHALL PROTECT AND CAREFULLY PRESERVE ALL SECTION AND/OR SUBSECTION MONUMENTS, PROPERTY CORNERS, AND REFERENCE MARKERS UNTIL THE OWNER, HIS/HER AGENT, OR AN AUTHORIZED SURVEYOR HAS WITNESSED OR OTHERWISE REFERENCED THEIR LOCATIONS.
- OFFSET LOCATIONS GIVEN IN THE PLANS FOR STRUCTURES, EDGE OF PAVEMENT, ETC. ARE FROM THE ROADWAY CENTERLINE.

- HOT-MIX ASPHALT SURFACE REMOVAL BUTT JOINTS WILL BE INSTALLED AT THE ENDS OF ALL RESURFACING (WHERE RESURFACING MEETS EXISTING PAVEMENT), IN ACCORDANCE WITH THE BUTT JOINT AND HOT-MIX ASPHALT TAPER DETAILS SHEET INCLUDED IN THE PLANS, UNLESS OTHERWISE SPECIFIED.
- PAVEMENT PATCHES AND COMBINATION CURB AND GUTTER REMOVAL AND REPLACEMENT PROVIDED ON PLAN SHEETS ARE APPROXIMATE LOCATIONS AND AREAS. ACTUAL PATCHING AREAS AND CURB AND GUTTER REMOVAL AND REPLACEMENT LIMITS WILL BE AS DETERMINED BY FIELD CONDITIONS AND APPROVED BY THE ENGINEER. QUANTITIES FOR PATCHING SHALL NOT EXCEED THOSE PROVIDED IN THE SUMMARY OF QUANTITIES UNLESS APPROVED BY THE ENGINEER.
- CURB SHALL BE DEPRESSED THROUGH SIDEWALKS AS DETAILED IN STANDARD 424001.
- ALL SIDEWALKS WILL MEET EXISTING WIDTHS WITH A MINIMUM THICKNESS OF FIVE INCHES (5") EXCEPT AT ANY EXISTING OR PROPOSED DRIVEWAY(S) THE THICKNESS WILL BE THAT OF THE DRIVEWAY. BEDDING WILL BE A MINIMUM OF 4" OF CA-6/GRADE 8. THE COST OF THE ADDITIONAL THICKNESS AND BEDDING SHALL BE INCLUDED IN THE COST OF PC CONCRETE SIDEWALK, 5".
- PROVIDE FOR THE IMMEDIATE REMOVAL OF ANY MUD AND DEBRIS THAT IS DEPOSITED INTO THE STREETS AND SIDEWALKS, WHICH WERE CAUSED BY THE CONSTRUCTION.
- THE CONTRACTOR'S ATTENTION IS CALLED TO THE FACT THAT THE PRESERVATION OF EXISTING TREES IS OF UTMOST IMPORTANCE TO THE VILLAGE OF FRANKLIN PARK. ALL TREE PROTECTION, PRUNING AND ROOT PRUNING SHALL BE COMPLETED BEFORE CONSTRUCTION OPERATIONS COMMENCE IN ANY AREA. AT NO TIME SHALL THE CONTRACTOR PRUNE OR REMOVE ANY TREES UNLESS SPECIFICALLY DIRECTED BY THE ENGINEER. THE CONTRACTOR SHALL USE CARE IN GRADING OR EXCAVATING NEAR ANY AND ALL EXISTING ITEMS WHICH WILL NOT BE REMOVED. ANY DAMAGE DONE TO EXISTING ITEMS BY THE CONTRACTOR SHALL BE REPAIRED BY THE CONTRACTOR AT THE CONTRACTOR'S OWN EXPENSE.
- IT WILL BE AT THE VILLAGE'S DISCRETION TO ADD AND/OR REMOVE QUANTITIES AS NECESSARY. ADDITIONAL QUANTITIES WILL BE PAID FOR AT THE CONTRACT UNIT PRICE FOR THE ITEMS. THERE WILL BE NO ADDITIONAL COMPENSATION FOR QUANTITIES REMOVED BY DIRECTION FROM THE VILLAGE.
- STORM SEWERS, WATER MAINS, AND UTILITIES
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING THE OWNERS OF ALL UTILITIES PRIOR TO CONSTRUCTION TO DETERMINE THE LOCATION OF ALL UTILITY EQUIPMENT. THE CONTRACTOR SHALL COOPERATE WITH ALL UTILITY OWNERS IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS IF UTILITY RELOCATION, ADJUSTMENT, OR PROTECTION IS NECESSARY.
- THE LOCATION OF EXISTING DRAINAGE STRUCTURES, STORM SEWERS, WATER MAINS, SANITARY SEWERS, AND ANY OTHER PUBLIC UTILITIES AS SHOWN ON THE PLANS IS APPROXIMATE AND THE EXACT LOCATION IS TO BE DETERMINED IN THE FIELD BY THE CONTRACTOR. THIS WORK SHALL BE CONSIDERED AS INCLUDED IN THE UNIT BID PRICES OF THE CONTRACT, AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL UNDERGROUND AND SURFACE UTILITIES EVEN THOUGH THEY MIGHT NOT BE SHOWN ON THE PLANS. ANY UTILITY PROPERTY DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED OR REPLACED TO THE SATISFACTION OF THE OWNER AT THE CONTRACTOR'S EXPENSE.
- ALL UTILITIES, SCHOOL DISTRICTS, LOCAL POLICE, AND FIRE DEPARTMENTS SHALL BE NOTIFIED BY THE CONTRACTOR 72 HOURS PRIOR TO THE START OF CONSTRUCTION.

- THE CONTRACTOR SHALL USE ALL NECESSARY PRECAUTIONS AND PROTECTION MEASURES REQUIRED TO MAINTAIN EXISTING UTILITIES, SEWERS, AND APPURTENANCES THAT MUST BE KEPT IN OPERATION.
- ALL MANHOLES AND BUFFALO BOXES WITHIN A PCC DRIVEWAY OR SIDEWALK MUST BE BOXED OUT WITH ONE INCH (1") EXPANSION MATERIAL. COST SHALL BE INCLUDED IN THE COST OF THE RESPECTIVE PAY ITEM.
- THE CONTRACTOR SHALL ENSURE THAT ALL WATER SYSTEM VALVES, VALVE VAULTS, AND SANITARY SEWER MANHOLES REMAIN READILY ACCESSIBLE TO THE CITY FOR EMERGENCY OPERATIONS. THE LOCATIONS OF ALL WATER AND SANITARY FACILITIES SHALL BE MARKED AND READILY VISIBLE AT ALL TIMES.
- ANY LOOSE MATERIAL DEPOSITED IN THE FLOW LINE OF DRAINAGE STRUCTURES, WHICH OBSTRUCTS THE NATURAL FLOW OF WATER SHALL BE REMOVED AT THE CLOSE OF EACH WORKING DAY. PRIOR TO ACCEPTANCE OF THE IMPROVEMENT, ALL DRAINAGE STRUCTURES SHALL BE FREE OF DIRT AND DEBRIS. THIS WORK WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE CONSIDERED AS INCLUDED IN THE UNIT BID PRICES OF THE CONTRACT.

SIGNING AND STRIPING

- SEE IDOT STANDARD DETAIL 780001, DISTRICT ONE DETAIL TC-13 AND PLAN SHEETS FOR PAVEMENT MARKING DETAILS.
- THE CONTRACTOR WILL BE REQUIRED TO TEMPORARILY RESET ALL SUCH SIGNS THAT INTERFERE WITH CONSTRUCTION OPERATIONS. ALL SUCH SIGNS MUST BE MAINTAINED STRAIGHT AND CLEAN FOR THE DURATION OF THE TEMPORARY SETTING AND MUST BE RE-ERECTED AT A TEMPORARY LOCATION IN A WORKMANLIKE MANNER AND BE VISIBLE TO THE TRAFFIC FOR WHICH IT IS INTENDED. THIS WORK WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE UNIT BID PRICES OF THE CONTRACT.

TRAFFIC CONTROL

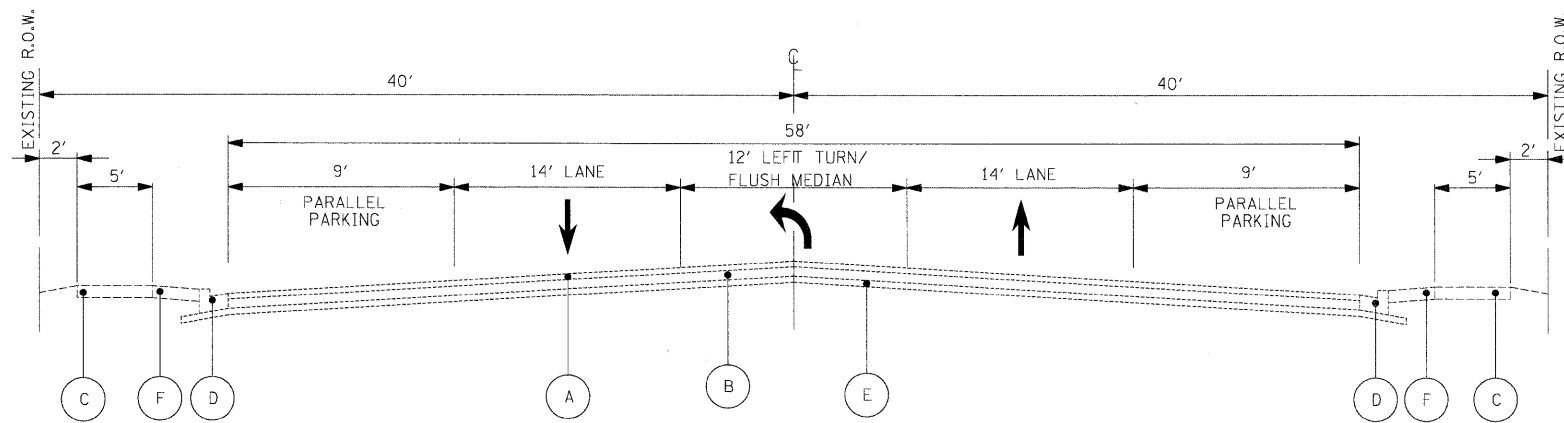
- SEE TRAFFIC CONTROL HIGHWAY STANDARDS CONCERNING TRAFFIC CONTROL AND PROTECTION.

FILE NAME =	USER NAME = \$USER\$	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	FRANKLIN AVENUE INDEX OF SHEETS, STANDARDS, AND GENERAL NOTES	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
p:\70142450 - franklin ave resurfacing\plans\sheets\F0142450\gnr\2001.dgn	DRAWN -	REVISED -	3533			09-0070-00-RS	COOK	16	2	
PLOT SCALE = 10.0000 "/ IN.	CHECKED -	REVISED -	CONTRACT NO. 63254							
PLOT DATE = 7/14/2009	DATE -	REVISED -	ILLINOIS FED. AID PROJECT							

SUMMARY OF QUANTITIES

CODE NO.	ITEMS	UNIT	QUANTITY (1000)
40600100	BITUMINOUS MATERIALS (PRIME COAT)	GALLON	2,107
40600300	AGGREGATE (PRIME COAT)	TON	42
40600635	LEVELING BINDER (MACHINE METHOD), N70	TON	885
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	183
40603340	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70	TON	1,032
42400200	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH	SQ FT	78
42400800	DETECTABLE WARNINGS	SQ FT	6
44000162	HOT-MIX ASPHALT SURFACE REMOVAL, 3 1/4"	SQ YD	10,533
44000600	SIDEWALK REMOVAL	SQ FT	78
44001700	COMBINATION CONCRETE CURB AND GUTTER REMOVAL AND REPLACEMENT	FOOT	508
44200089	PAVEMENT PATCHING, TYPE I, 8 INCH	SQ YD	228
44200094	PAVEMENT PATCHING, TYPE II, 8 INCH	SQ YD	228
44200099	PAVEMENT PATCHING, TYPE III, 8 INCH	SQ YD	228
44200101	PAVEMENT PATCHING, TYPE IV, 8 INCH	SQ YD	228
44300100	AREA REFLECTIVE CRACK CONTROL TREATMENT	SQ YD	10,533
60300205	FRAMES AND GRATES TO BE ADJUSTED (SPECIAL)	EACH	42
67100100	MOBILIZATION	L SUM	1
70101800	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	L SUM	1
70300210	TEMPORARY PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	128
70300220	TEMPORARY PAVEMENT MARKING - LINE 4"	FOOT	5,284
70300240	TEMPORARY PAVEMENT MARKING - LINE 6"	FOOT	1,900
70300260	TEMPORARY PAVEMENT MARKING - LINE 12"	FOOT	314
70300280	TEMPORARY PAVEMENT MARKING - LINE 24"	FOOT	295
70301000	WORK ZONE PAVEMENT MARKING REMOVAL	SQ FT	3,830
* 78000100	THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	128
* 78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	5,284
* 78000400	THERMOPLASTIC PAVEMENT MARKING - LINE 6"	FOOT	1,900
* 78000600	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	314
* 78000650	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	295
* 88600600	DETECTOR LOOP REPLACEMENT	FOOT	636
70300100	SHORT-TERM PAVEMENT MARKING	FOOT	300

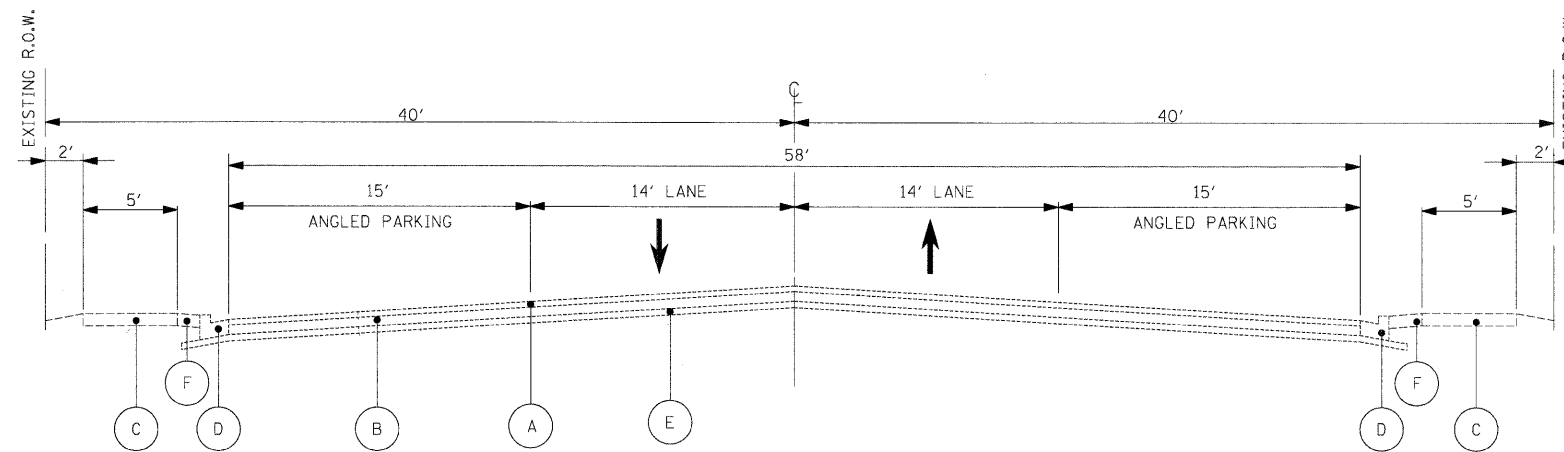
* SPECIALTY ITEMS



EXISTING TYPICAL CROSS SECTION
FRANKLIN AVE.
STATION 9+21.70 TO STATION 14+00.00

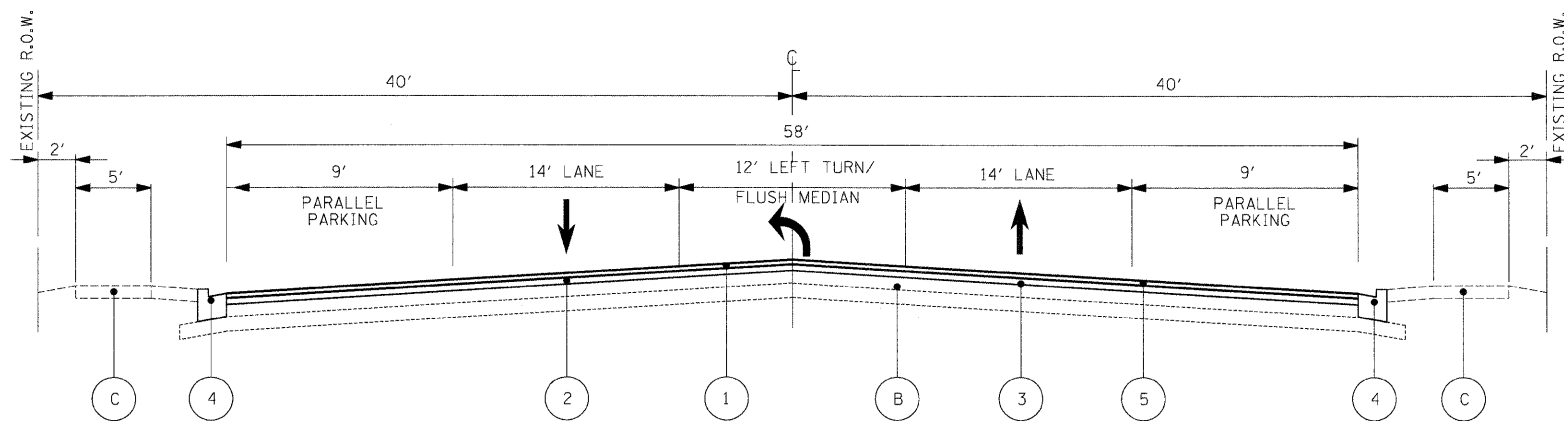
EXISTING LEGEND

- (A) HOT-MIX ASPHALT SURFACE COURSE, 3"-4 1/2"
- (B) P.C.C PAVEMENT, 6"-8"
- (C) P.C.C. SIDEWALK
- (D) B-6.12 CONCRETE CURB AND GUTTER
- (E) 4" CRUSHED LIMESTONE
- (F) PAVING BRICK SIDEWALK



EXISTING TYPICAL CROSS SECTION
FRANKLIN AVE.
STATION 14+00.00 TO STATION 24+00.00

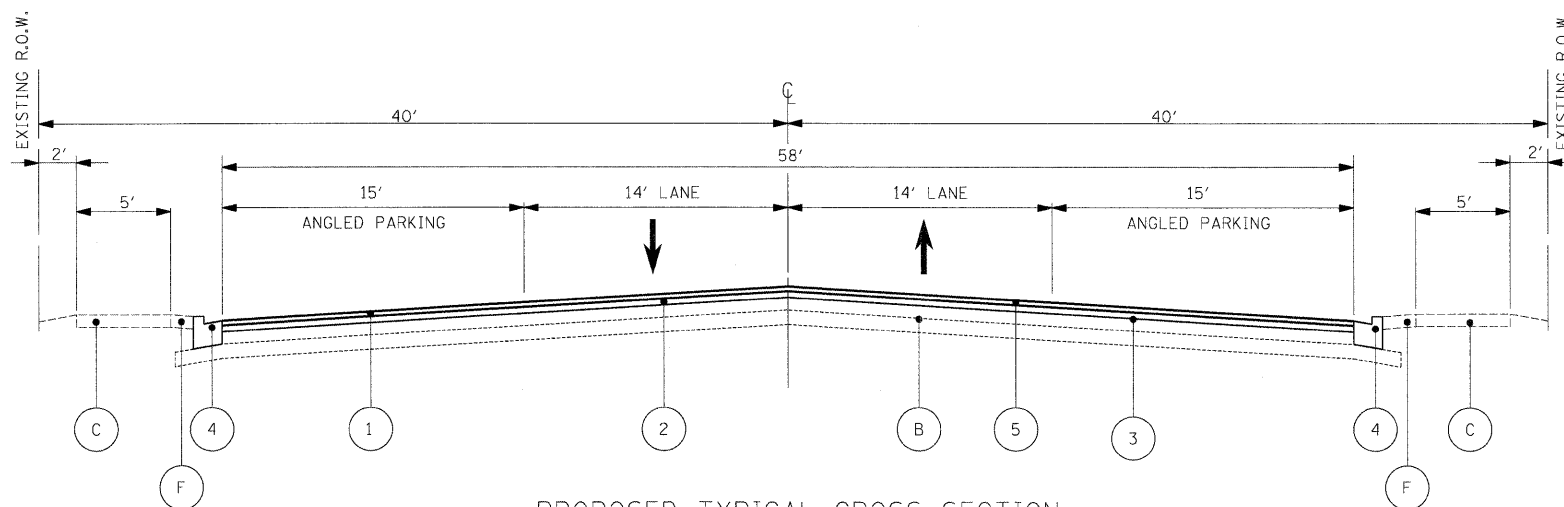
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	PLOT SCALE = 5.0000' / IN.	DRAWN -	REVISED -			3533	09-00070-00-R5	COOK	16	4	
	PLOT DATE = 7/14/2009	CHECKED -	REVISED -			CONTRACT NO. 63254					
		DATE -	REVISED -			ILLINOIS FED. AID PROJECT					



PROPOSED TYPICAL CROSS SECTION
FRANKLIN AVE.
STATION 9+21.70 TO STATION 14+00.00

EXISTING LEGEND

- (A) HOT-MIX ASPHALT SURFACE COURSE, 3''-4 1/2''
- (B) P.C.C PAVEMENT, 6''-8''
- (C) P.C.C. SIDEWALK
- (D) B-6.12 CONCRETE CURB AND GUTTER
- (E) 4'' CRUSHED LIMESTONE
- (F) PAVING BRICK SIDEWALK



PROPOSED TYPICAL CROSS SECTION
FRANKLIN AVE.
STATION 14+00.00 TO STATION 24+00.00

PROPOSED LEGEND

- (1) HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70, 1 3/4''
- (2) LEVELING BINDER (MACHINE METHOD), N70, 1 1/2''
- (3) AREA REFLECTIVE CRACK CONTROL TREATMENT
- (4) COMBINATION CURB AND GUTTER REMOVAL AND REPLACEMENT
- (5) HOT-MIX ASPHALT SURFACE REMOVAL, 3 1/4''

HOT-MIX ASPHALT MIXTURE REQUIREMENT

MIXTURE TYPE	AC TYPE	AIR VOIDS
PAVEMENT RESURFACING		
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70; 1 3/4''	PG 64 -22	4% @ 70 Gyr.
LEVELING BINDER (MACHINE METHOD), N70; 1 1/2''	PG 64 -22 / *	4% @ 70 Gyr.
PAVEMENT PATCHING		
CLASS D PATCHES (HMA BINDER IL-19 mm)	PG 64 -22 *	4% @ 70 Gyr.

THE UNIT WEIGHT USED TO CALCULATE ALL HMA SURFACE MIXTURE QUANTITIES IS 112 LBS/SQ YD/IN.

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

Description: Bituminous Materials (Prime Coat)										Unit: Gallon	
Location	Begin		End		Length (FT)	Width (FT)	Area (SY)	Appl. Rate (Gal/SY)	Quantity (Gal)		
	Station	Side	Station	Side					Subtotal	Cumm.	
Base											
franklin ave	9+21.7	Both	24+00.	Both			10533.0	0.1	1053.3	1053.3	
Binder											
franklin ave	9+21.7	Both	24+00.	Both			10533.0	0.1	1053.3	2106.6	

Description: Aggregate (Prime Coat)										Unit: Ton	
Location	Begin		End		Length (FT)	Width (FT)	Area (SY)	Appl. Rate (lb/SY)	Quantity (Ton)		
	Station	Side	Station	Side					Subtotal	Cumm.	
Base											
franklin ave	9+21.7	Both	24+00.	Both			10533.0	4	21.1	21.1	
Binder											
franklin ave	9+21.7	Both	24+00.	Both			10533.0	4	21.1	42.1	

Description: Leveling Binder (Machine Method)										Unit: Ton	
Location	Begin		End		Length (FT)	Width (FT)	Area (SY)	Depth (IN)	D	Quantity (Ton)	
	Station	Side	Station	Side						Subtotal	Cumm.
franklin ave	9+21.7	Both	24+00.	Both			10533.0	1.5	112	885	885

Description: Hot-Mix Asphalt Surface Removal - Butt Joint										Unit: Square Yard	
Location	Begin		End		Length (FT)	Width (FT)	Area (SF)	Quantity (SY)			
	Station	Side	Station	Side				Subtotal	Cumm.		
franklin ave	9+21.7	CL	9+26.2	CL	4.5	42.0	189.0	21.0	21.0		
atlantic ave	1+54.	CL	1+58.5	CL	4.5	36.4	163.8	18.2	39.2		
calwagner ave	2+49.	CL	2+53.5	CL	4.5	33.1	149.0	16.6	55.8		
calwagner ave	3+57.	CL	3+61.5	CL	4.5	38.1	171.5	19.1	74.8		
gustav ave	3+45.	CL	3+49.5	CL	4.5	42.9	193.1	21.5	96.3		
Ruby ave	1+74.	CL	1+78.5	CL	4.5	31.9	143.6	16.0	112.2		
Ruby ave	0+29.	CL	0+33.5	CL	4.5	31.5	141.8	15.8	128.0		
franklin ave	23+95.5	CL	24+00.	CL	4.5	65.0	292.5	32.5	160.5		
belmont ave	9+24.	RT	9+28.5	RT	4.5	45.0	202.5	22.5	183.0		

Description: Hot-Mix Asphalt Surface Course, Mix "D", N70										Unit: Ton	
Location	Begin		End		Length (FT)	Width (FT)	Area (SY)	Depth (IN)	D	Quantity (Ton)	
	Station	Side	Station	Side						Subtotal	Cumm.
franklin ave	9+21.7	Both	24+00.	Both			10533.0	1.75	112	1,032	1,032

Description: Portland Cement Concrete Sidewalk 5 Inch										Unit: Square Foot	
Location	Begin		End Station		Length (FT)	Width (FT)	Quantity (SF)				
	Station	Side	Station	Side			Subtotal	Cumm.			
Franklin Ave	13+87.	LT	13+97.	LT	10	7.8	78.0	78.0			

Description: AREA REFLECTIVE CRACK CONTROL TREATMENT									
Location	Begin		End		Length (FT)	Width (FT)	Area (SF)	Quantity (SY)	
	Station	Side	Station	Side				Subtotal	Cumm.
franklin ave	9+21.7	Both	24+00.	Both			94797	10533.0	10533.0

Description: DETECTABLE WARNINGS										Unit: Square Foot	
Location	Begin		End		Length (FT)	Width (FT)	Area (SF)	Quantity (SF)			
	Station	Side	Station	Side				Subtotal	Cumm.		
Franklin Ave	13+70.	LT					6	6.0	6.0		

Description: Hot-Mix Asphalt Surface Removal, 3 1/4"										Unit: Square Yard	
Location	Begin		End		Length (FT)	Width (FT)	Area (SF)	Quantity (SY)			
	Station	Side	Station	Side				Subtotal	Cumm.		
franklin ave	9+21.7	Both	24+00.	Both			94797	10533.0	10533.0		

Description: SIDEWALK REMOVAL										Unit: Square Foot	
Location	Begin		End		Length (FT)	Width (FT)	Area (SF)	Quantity (SF)			
	Station	Side	Station	Side				Subtotal	Cumm.		
Franklin Ave	13+87	LT	13+97.	LT	78		78.0		78.0		

Description: Thermoplastic Pavement Marking - Letters and Symbols									
Location	Begin		letter/symbol	Length (FT)	Width (FT)	Quantity (SF)			
	Station	Side				Subtotal	Cumm.		
franklin ave	11+90	CL	Left Arrow			15.6	15.6		
franklin ave	12+13	CL	ONLY			20.8	36.4		
franklin ave	23+39	CL	ONLY			20.8	57.2		
franklin ave	23+39	RT	ONLY	O/S 25'		20.8	78.0		
franklin ave	23+63	CL	Left Arrow			15.6	93.6		
franklin ave	23+63	RT	Right Arrow	O/S 25'		15.6	109.2		
franklin ave	16+45	LT	Handicap	O/S 20'		4.6	113.8		
franklin ave	16+45	RT	Handicap	O/S 20'		4.6	118.4		
franklin ave	18+00	LT	Handicap	O/S 15'		4.6	123.0		
franklin ave	20+10	RT	Handicap	O/S 20'		4.6	127.6		

Description: Thermoplastic Pavement Marking 24"										Unit: Linear Foot	
Location	Begin		End		Length (FT)	Quantity (LF)					
	Station	Side	Station	Side		Subtotal	Cumm.				
Stop Bars											
franklin ave	10+44	LT	10+51	RT	40.4	40.4	40.4				
franklin ave	16+67	LT	16+96	RT	33.1	33.1	73.5				
Calwagner St.	2+41.	RT	2+53.	LT	32.8	32.8	106.3				
Calwagner St.	3+59.	CL	3+65.	LT	19.0	19.0	125.3				
franklin ave	17+44.	LT	17+58.	CL	34.5	34.5	159.8				
Gustav St.	3+39.	RT	3+45.	CL	18.5	18.5	178.3				
franklin ave	23+94.	RT	24+08.	LT	36.6	36.6	214.9				
franklin ave	9+16.	LT	9+16.	RT	26.0	26.0	240.9				
belmont ave	9+44.	RT	9+44.	RT	23.6	23.6	264.5				
ruby st	9+99.	RT	10+16.	RT	16.5	16.5	281.0				
ruby st	9+80.	LT	9+99.	LT	13.8	13.8	294.8				

Description: Thermoplastic Pavement Marking 12"										Unit: Linear Foot	
Location	Begin		End		Length (FT)	Quantity (LF)					
	Station	Side	Station	Side		Subtotal	Cumm.				
Median											
franklin ave	12+25	CL	13+70.	CL	67.0	67.0	67.0				
franklin ave	14+08	CL	14+53	CL	18.7	18.7	85.7				
Disabled parking spaces											
franklin ave	16+27.	LT			31.1	31.1	116.8				
franklin ave	16+40.	RT			33.1	33.1	149.9				
franklin ave	18+07.	LT			53.5	53.5	203.4				
franklin ave	20+10.	RT			45.3	45.3	248.7				
no parking zones											
franklin ave	9+13.	RT	9+56.	RT	43.0	43.0	291.7				
Belmont Ave.		RT		RT	22.0	22.0	313.7				

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 DRAWN -
 CHECKED -
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 PLOT DATE = 7/14/2009

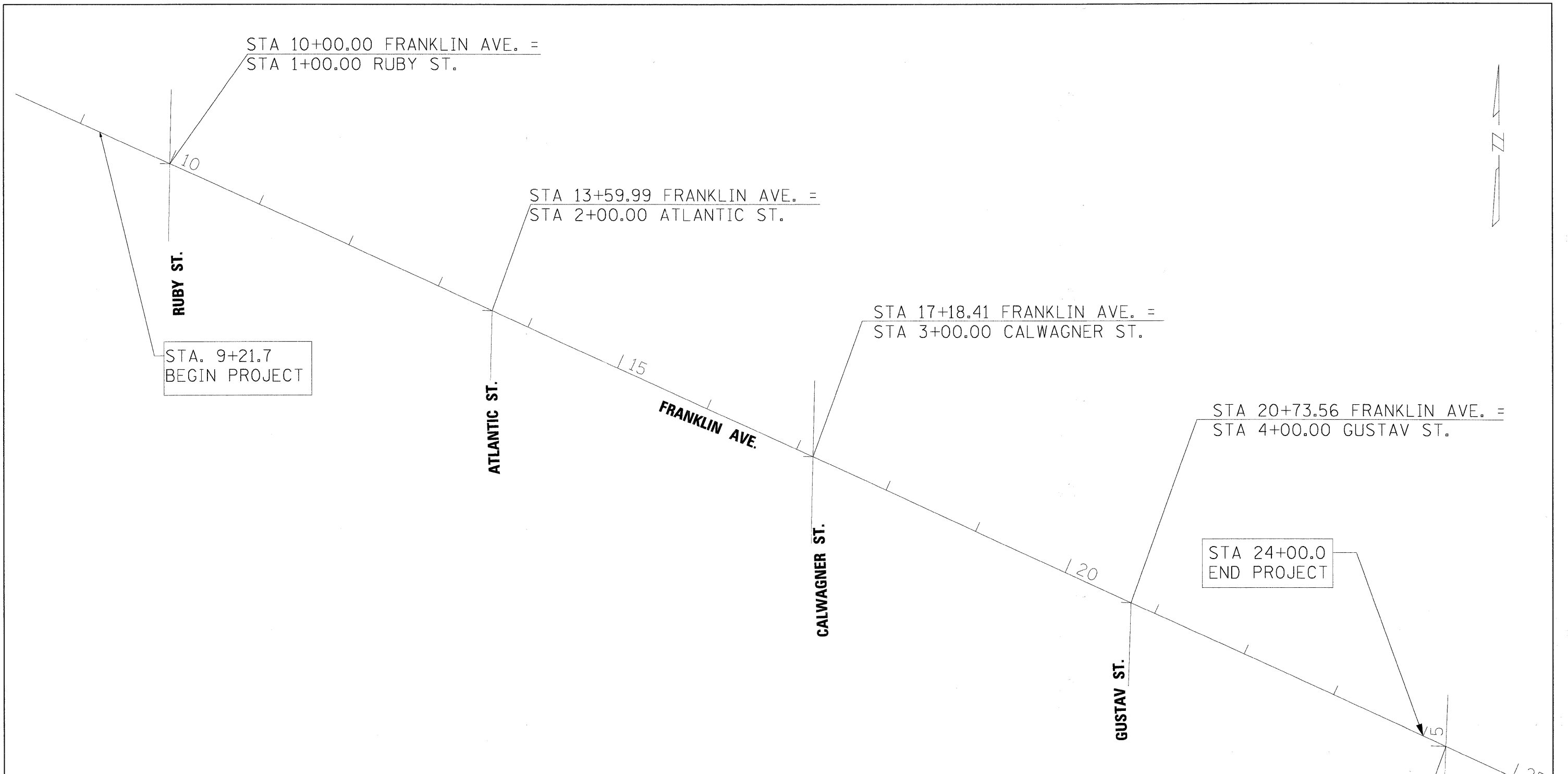
REVISOR -
 REVISED -
 REVISED -
 REVISED -
 DATE -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

FRANKLIN AVENUE
 SCHEDULES OF QUANTITIES

SCALE: N/A SHEET NO. 1 OF 2 SHEETS STA. TO STA.

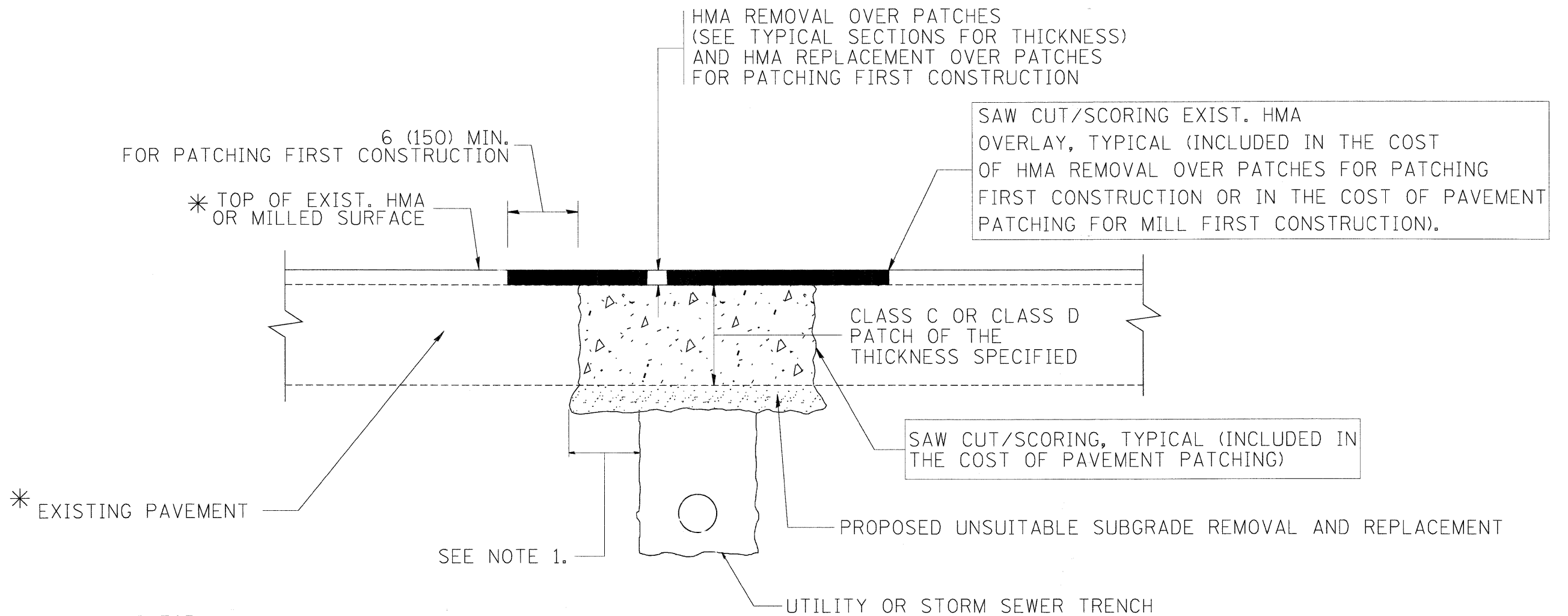
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3533	09-00070-00-RS	COOK	16	6
CONTRACT NO. 63254			ILLINOIS FED. AID PROJECT	



BENCHMARKS

- BM 8 643.63 (88) FOUND CUT "X" IN THE NORTH EDGE OF A ROUND CONCRETE ORNAMENTAL STREET LIGHT BASE AT THE SOUTHEAST CORNER OF FRANKLIN & CALWAGNER.
- BM 9 642.59 (88) CUT "L" IN TOP OF NORTH EDGE OF A ROUND CONCRETE ORNAMENTAL STREET LIGHT BASE AT THE ENTRANCE TO "BELL LIQUORS" SOUTHEAST CORNER OF FRANKLIN & GUSTAV.
- BM 10 642.42 (88) CUT "L" IN TOP OF NE'LY EDGE OF A ROUND CONCRETE ORNAMENTAL STREET LIGHT (R36) BASE AT THE SOUTHWEST CORNER OF FRANKLIN & 25TH (ROSE), 1' WEST OF CURB AT THE P.T. OF 25TH.

FILE NAME = p:\140450 - franklin ave resurfacing\plans\sheets\F0140450\sp101.dgn	USER NAME = #USER#	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	FRANKLIN AVENUE ALIGNMENT	F.A.U. RTE. 3533	SECTION 09-00070-00-RS	COUNTY COOK	TOTAL SHEETS 16	SHEET NO. 8		
PLOT SCALE = 50.0000' / IN.	CHECKED -	REVISED -	SCALE: 1" = 100'			SHEET NO. 1 OF 1 SHEETS	STA. TO STA.	CONTRACT NO. 63254				
PLOT DATE = 7/14/2009	DATE -	REVISED -	ILLINOIS FED. AID PROJECT									



* SEE TYPICAL SECTIONS FOR THICKNESS AND MATERIALS

NOTES:

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

SEQUENCE OF CONSTRUCTION (PATCHING FIRST)

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

SEQUENCE OF CONSTRUCTION (MILLING FIRST)

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

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

FILE NAME = c:\projects\diststd22x34\bd22.dgn	USER NAME = beuerdl	DESIGNED - R. SHAH	REVISED - A. ABBAS 04-27-98	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PAVEMENT PATCHING FOR HMA SURFACED PAVEMENT			F.A. RTE. SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
		DRAWN -	REVISED - R. BORO 01-01-07		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.	09-00070-00-RS	Cook	16	17
		CHECKED -	REVISED - R. BORO 09-04-07						BD400-04 (BD-22)	CONTRACT NO.	63254	
		DATE - 10-25-94	REVISED - K. ENG 10-27-08						FED. ROAD DIST. NO. 1	ILLINOIS FED. AID PROJECT		

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
EXISTING OR PROPOSED HMA SURFACE (IF APPLICABLE)

18" (450) MAX.

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

3" (75) MIN.

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

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).

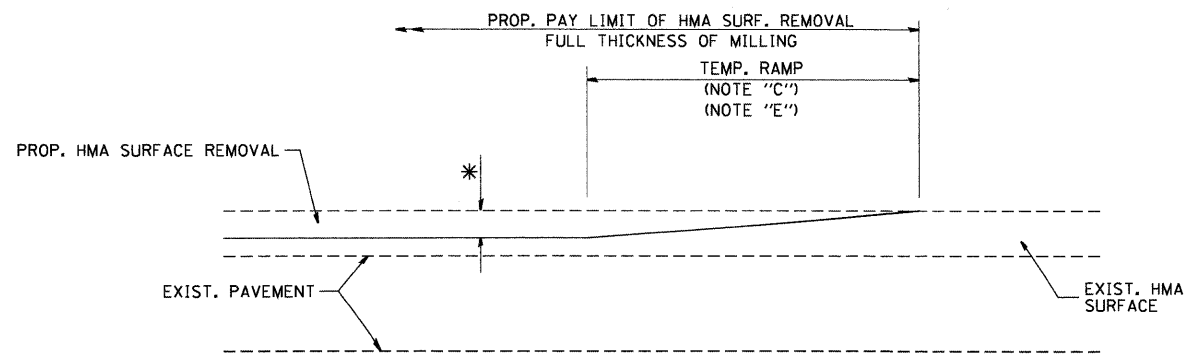
BASIS OF PAYMENT:

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

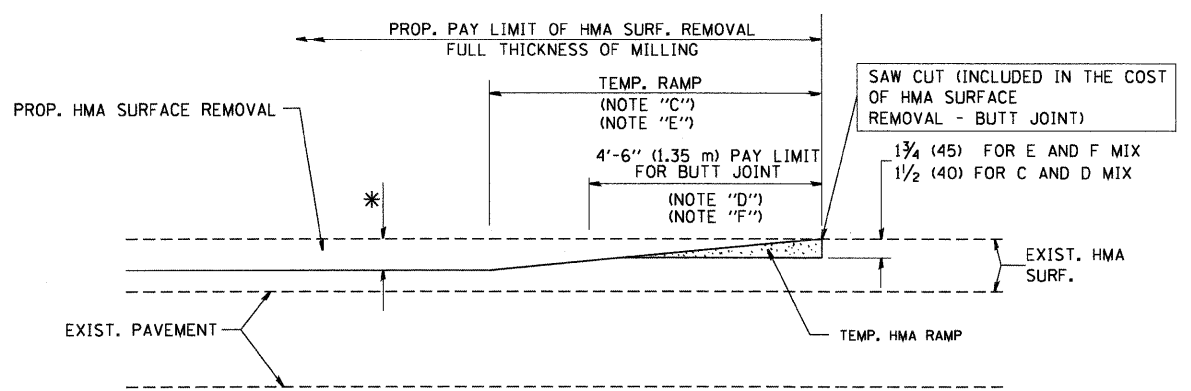
ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

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		DRAWN -	REVISED - A. ABBAS 03-21-97		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.	09-00070-00-R5	Cook	16	12
		CHECKED -	REVISED - M. GOMEZ 01-22-01					BD600-06 (BD-24)		CONTRACT NO. 63254		
		PLOT SCALE = 50.000' / IN.	REVISED - R. BORO 01-01-07				FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT					
		PLOT DATE = 1/4/2008										



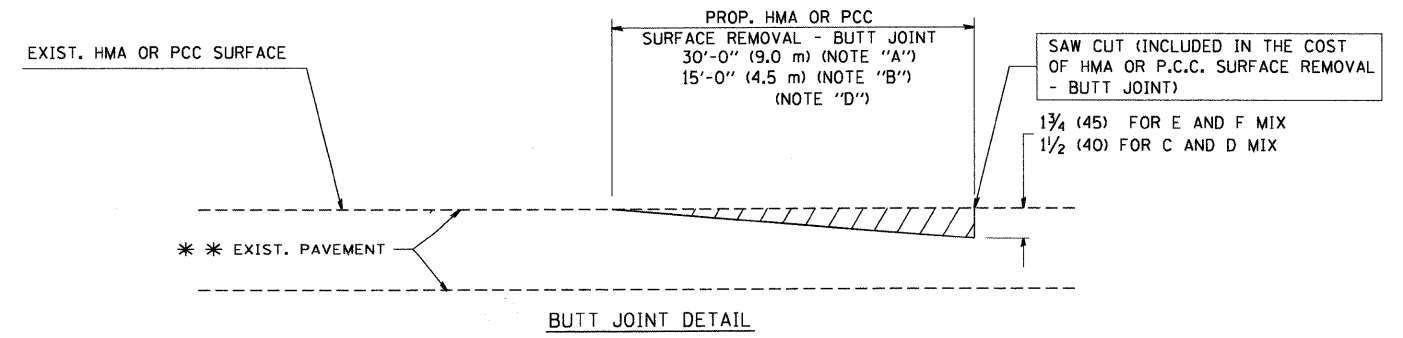
MILLED TEMPORARY RAMP
(FOR BUTT JOINT AND HMA TAPER SEE DETAIL BELOW)

OPTION 1

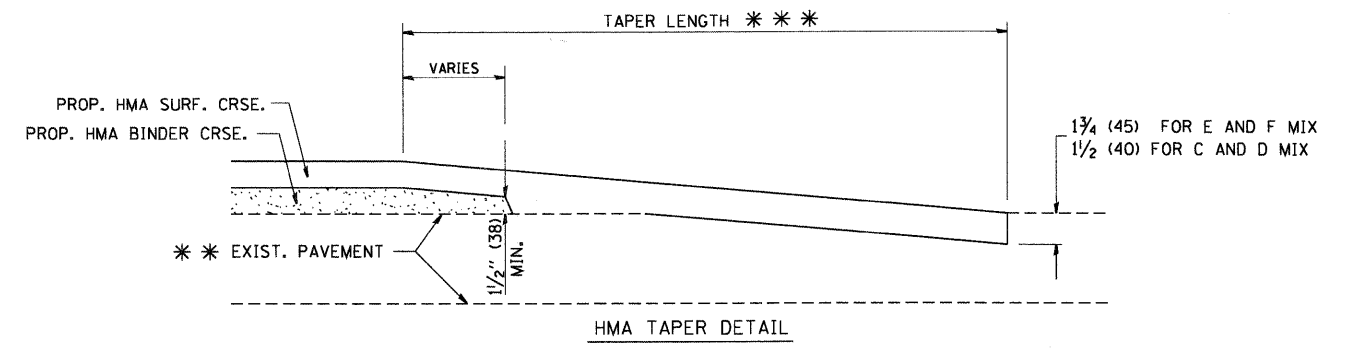


HMA CONSTRUCTED TEMPORARY RAMP
(FOR BUTT JOINT AND HMA TAPER SEE DETAIL BELOW)

OPTION 2
TYPICAL TEMPORARY RAMP



BUTT JOINT DETAIL



HMA TAPER DETAIL

TYPICAL BUTT JOINT AND HMA TAPER
FOR RESURFACING ONLY

*** PC CONCRETE, HMA OR HMA RESURFACED PAVEMENT.

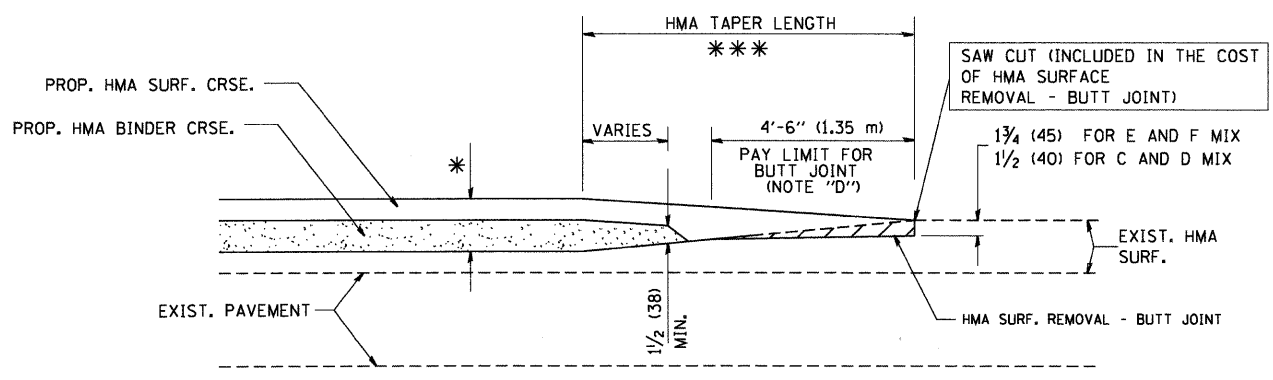
NOTES

- 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 (SQUARE METER) FOR "HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT" OR FOR "PORTLAND CEMENT CONCRETE SURFACE REMOVAL - BUTT JOINT".

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



BUTT JOINT AND
HMA TAPER

TYPICAL BUTT JOINT AND HMA TAPER
FOR MILLING AND RESURFACING

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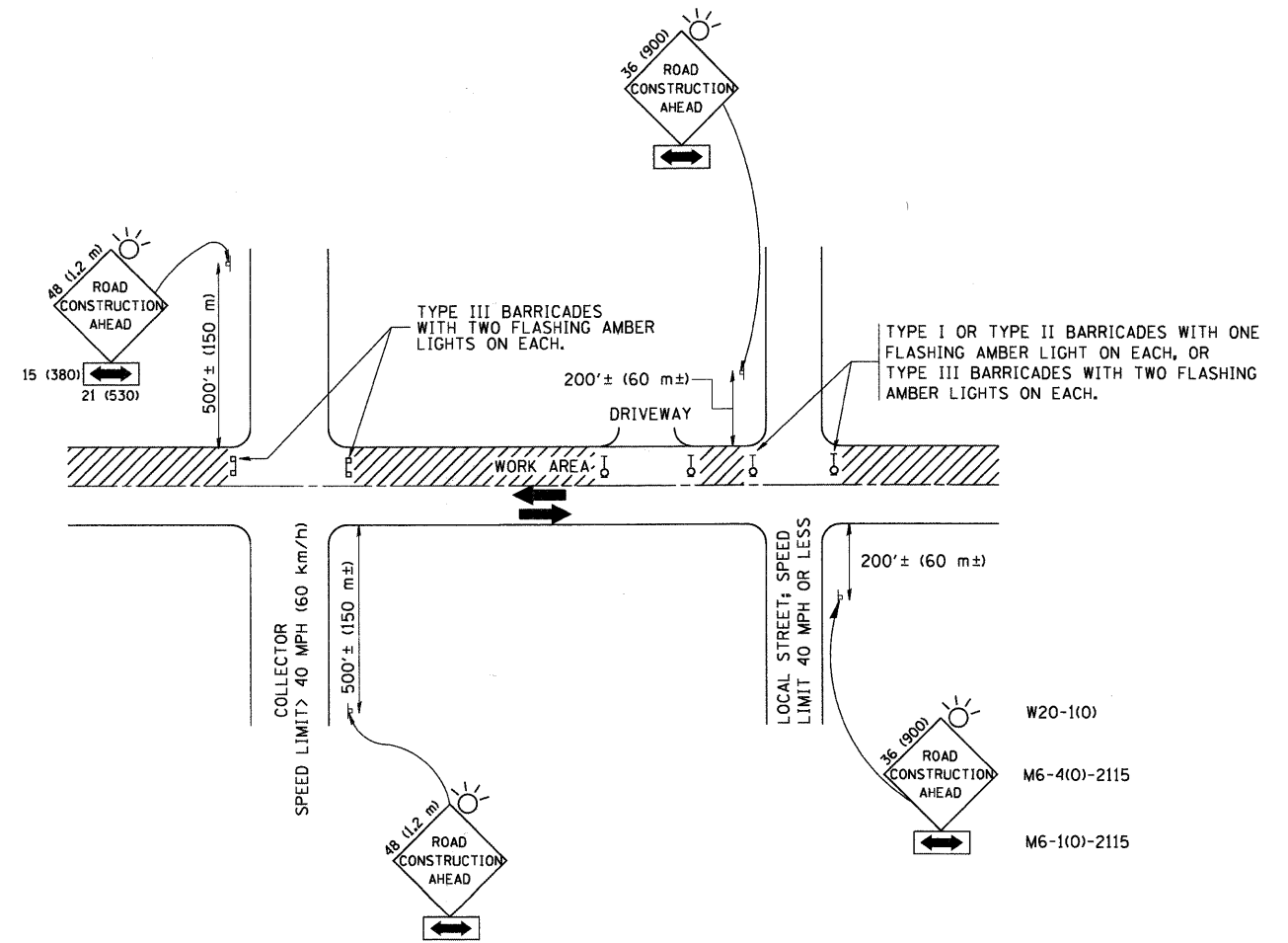
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PLOT SCALE = 50.0000 "/ IN.	DRAWN -	REVISED - A. ABBAS 03-21-97
PLOT DATE = 1/4/2008	CHECKED -	REVISED - M. GOMEZ 04-06-01
	DATE - 06-13-90	REVISED - R. BORO 01-01-07

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BUTT JOINT AND
HMA TAPER DETAILS

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	09-00070-00-RS	Cook	16	13
BD400-05 BD32		CONTRACT NO. 63254		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



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

NOTES:

- A. FOR NO LANE RESTRICTION ON THE SIDE ROAD OR DRIVEWAYS
 1. SIDE ROAD WITH A SPEED LIMIT OF 40 MPH (60 km/h) OR LESS AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
 - a) ONE ROAD CONSTRUCTION AHEAD SIGN 36 x 36 (900x900) WITH A FLASHER AND FLAG MOUNTED ON IT APPROXIMATELY 200' (60 m) IN ADVANCE OF THE MAIN ROUTE.
 - b) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE I, TYPE II OR TYPE III BARRICADES, 1/3 OF THE CROSS SECTION OF THE CLOSED PORTION.
 2. SIDE ROAD WITH A SPEED LIMIT GREATER THAN 40 MPH (60 km/h) AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
 - a) ONE ROAD CONSTRUCTION AHEAD SIGN 48 x 48 (1.2 m x 1.2 m) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 500' (150 m) IN ADVANCE OF THE MAIN ROUTE.
 - b) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE III BARRICADES, 1/2 OF THE CROSS SECTION OF THE CLOSED PORTION.
- 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.

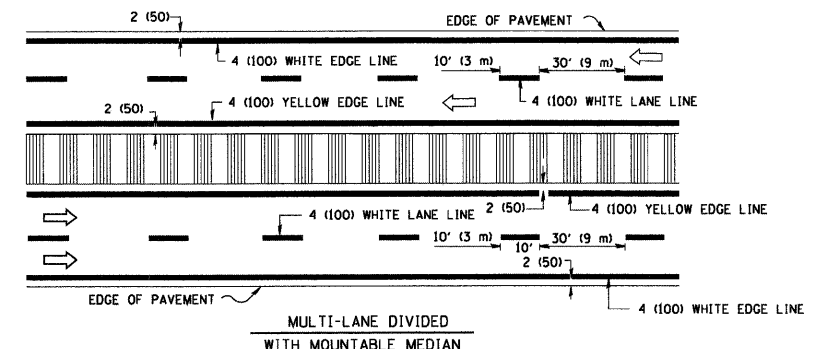
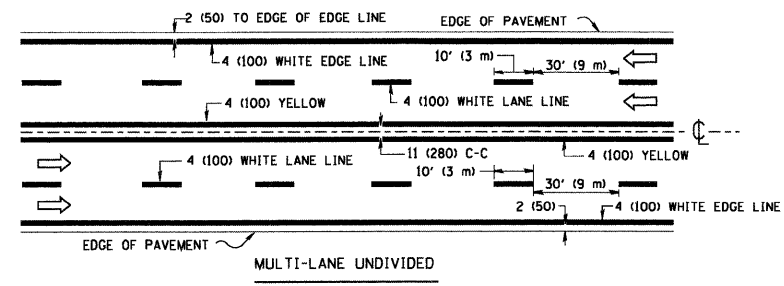
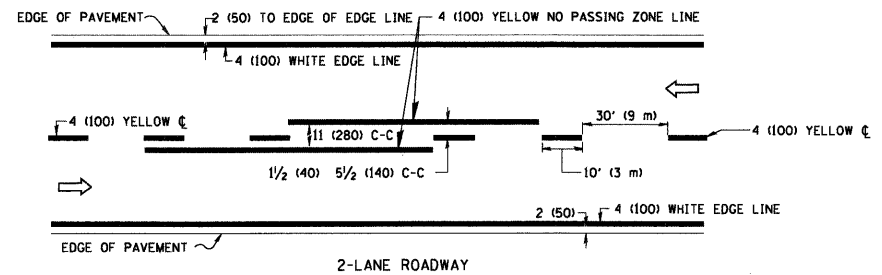
All dimensions are in millimeters (inches) unless otherwise shown.

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		CHECKED -	REVISED - A. HOUSEH 10-15-96
		DATE - 06-89	REVISED - T. RAMMACHER 01-06-00

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

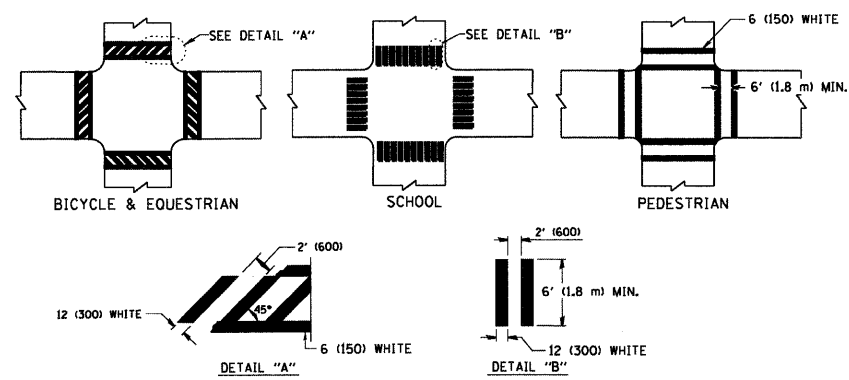
TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS			
SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	09-00070-00-RS	Cook	16	14
TC-10			CONTRACT NO. 63254	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

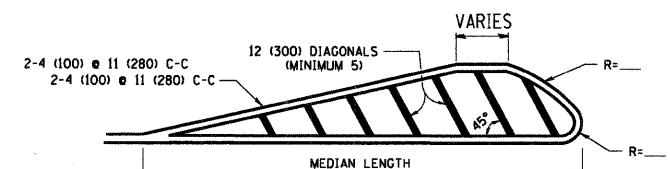
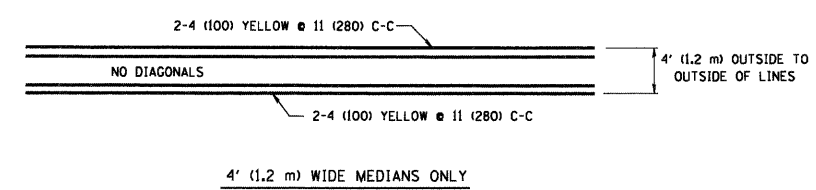


NOTE: MEDIANS WITH BARRIER CURB DO NOT REQUIRE AN EDGE LINE

TYPICAL LANE AND EDGE LINE MARKING

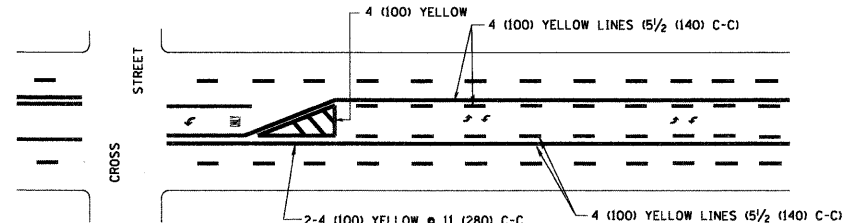


TYPICAL CROSSWALK MARKING

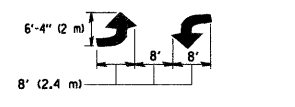


FOR MEDIAN LENGTHS WHERE DIAGONAL SPACING CANNOT BE ATTAINED, USE 5 (FIVE) EQUALLY SPACED DIAGONAL LINES.
 DIAGONAL LINE SPACING: 50' (15 m) C-C (LESS THAN 30MPH (50 km/h))
 75' (25 m) C-C 30MPH (50 km/h) TO 45MPH (70 km/h)
 150' (45 m) C-C (MORE THAN 45MPH (70 km/h))

MEDIANS OVER 4' (1.2 m) WIDE

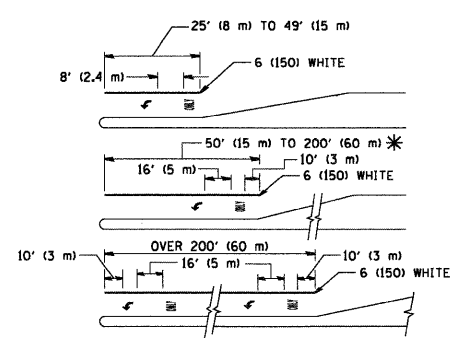


A MINIMUM OF TWO PAIRS OF TURN ARROWS SHALL BE USED, WHITE IN COLOR. ADDITIONAL PAIRS SHALL BE PLACED AT 200' (60 m) TO 300' (90 m) INTERVALS.



MEDIAN WITH TWO-WAY LEFT TURN LANE

TYPICAL PAINTED MEDIAN MARKING

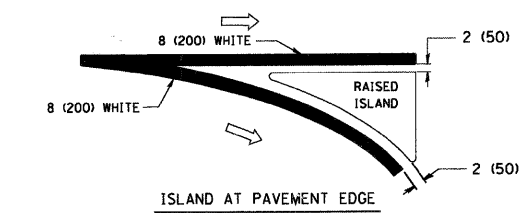
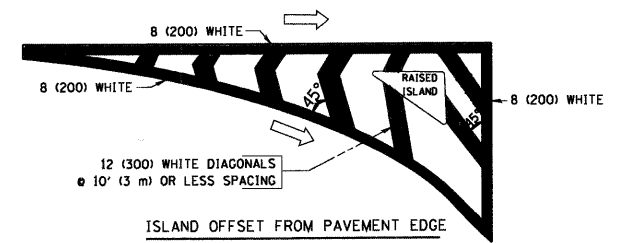


FULL SIZE LETTERS 8" (2.4 m) AND ARROWS SHALL BE USED.
 AREA = 15.6 SQ. FT. (1.5 m²) ONLY AREA = 20.8 SQ. FT. (1.9 m²)

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

TYPICAL LEFT (OR RIGHT) TURN LANE

TYPICAL TURN LANE MARKING



TYPICAL ISLAND MARKING

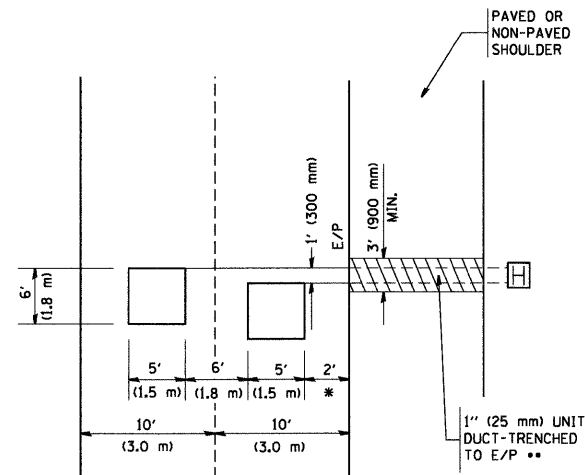
TYPE OF MARKING	WIDTH OF LINE	PATTERN	COLOR	SPACING / REMARKS
CENTERLINE ON 2 LANE PAVEMENT	4 (100)	SKIP-DASH	YELLOW	10' (3 m) LINE WITH 30' (9 m) SPACE
CENTERLINE ON MULTI-LANE UNDIVIDED PAVEMENT	2 @ 4 (100)	SOLID	YELLOW	11 (280) C-C
NO PASSING ZONE LINES: FOR ONE DIRECTION FOR BOTH DIRECTIONS	4 (100) 2 @ 4 (100)	SOLID SOLID	YELLOW YELLOW	5 1/2 (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 1/2 (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 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.
CORE MARKING AND CHANNELIZING LINES	8 (200) WITH 12 (300) DIAGONALS @ 45°	SOLID	WHITE	DIAGONALS: 15' (4.5 m) C-C (LESS THAN 30MPH (50 km/h)) 20' (6 m) C-C 30MPH (50 km/h) TO 45MPH (70 km/h) 30' (9 m) C-C (OVER 45MPH (70 km/h))
RAILROAD CROSSING	24 (600) TRANSVERSE LINES; "RR" 15' (4.5 m) LINE FOR "X" LETTERS: 16 (400)	SOLID	WHITE	SEE STATE STANDARD 780001 AREA OF: "R"=3.6 SQ. FT. (0.33 m ²) EACH "X"=54.0 SQ. FT. (5.0 m ²)
SHOULDER DIAGONALS	12 (300) @ 45°	SOLID	WHITE - RIGHT YELLOW - LEFT	50' (15 m) C-C (LESS THAN 30MPH (50 km/h)) 75' (25 m) C-C 30 MPH (50 km/h) TO 45MPH (70 km/h) 150' (45 m) C-C (OVER 45MPH (70 km/h))

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

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

LOOPS NEXT TO SHOULDERS

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

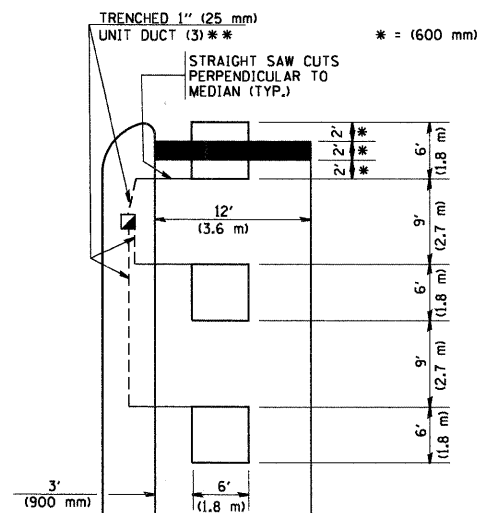


* = (600 mm)

** 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)**

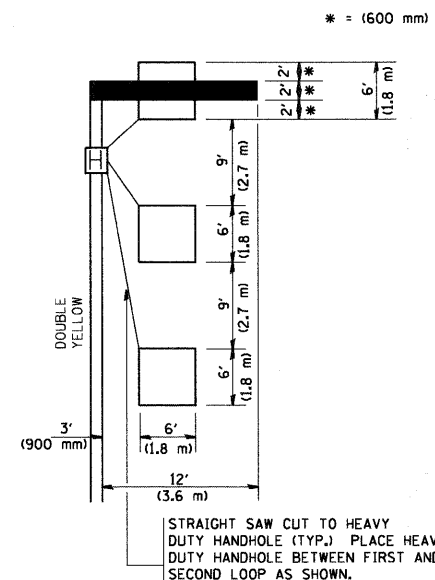
HANDHOLE LOCATION MAY VARY DEPENDING ON GEOMETRICS AND DESIGN OF TRAFFIC SIGNALS. HEAVY-DUTY HANDHOLES TO BE USED WHEN THE MEDIAN IS MOUNTABLE. REFER TO STANDARD 814001 TO ENSURE THAT HANDHOLE FITS IN MEDIAN.



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

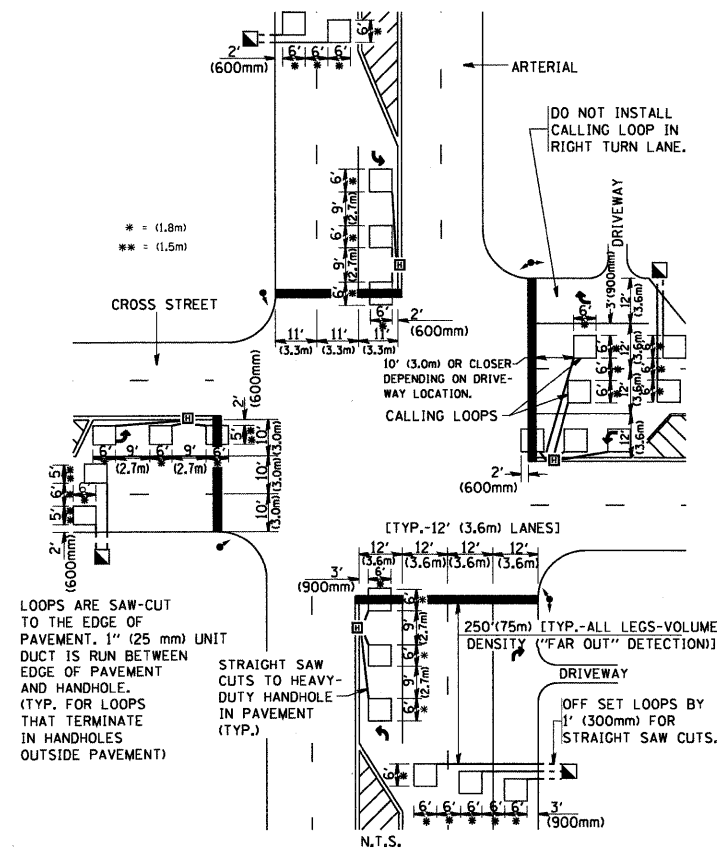
NOTE: DUAL LEFT TURNS NOT SHOWN REFER TO PLAN SHEET FOR DETECTOR LOOP REPLACEMENT

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



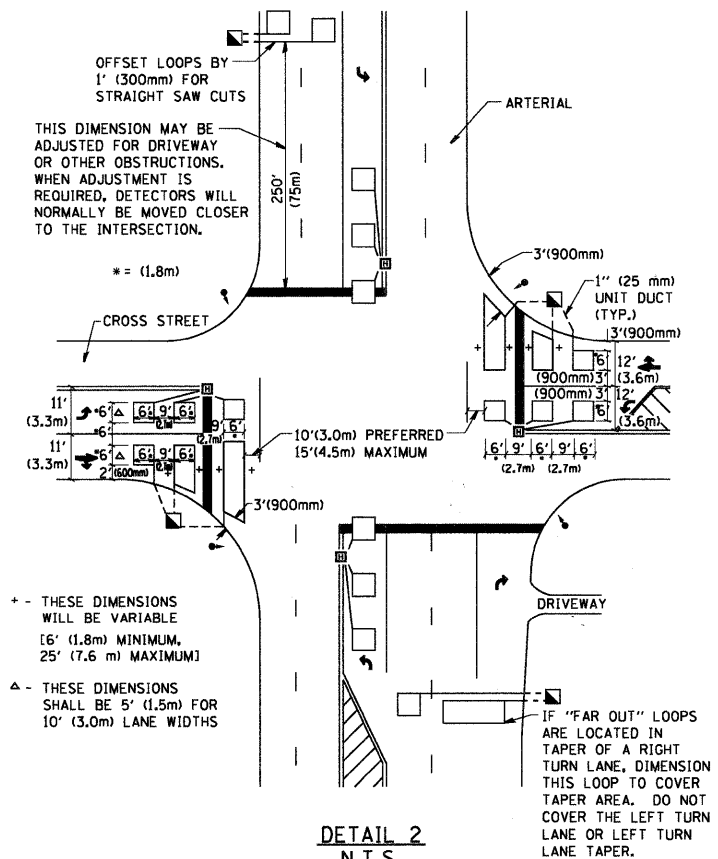
NOTE: DUAL LEFT TURNS NOT SHOWN REFER TO PLAN SHEET FOR DETECTOR LOOP REPLACEMENT

**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.

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REVISOR -
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**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.
	09-00070-00-RS	Cook	16	16
	TS-07			CONTRACT NO. 63254
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				