

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2820	44RS-6	COOK	34	1
ILLINOIS CONTRACT NO. 60H97				

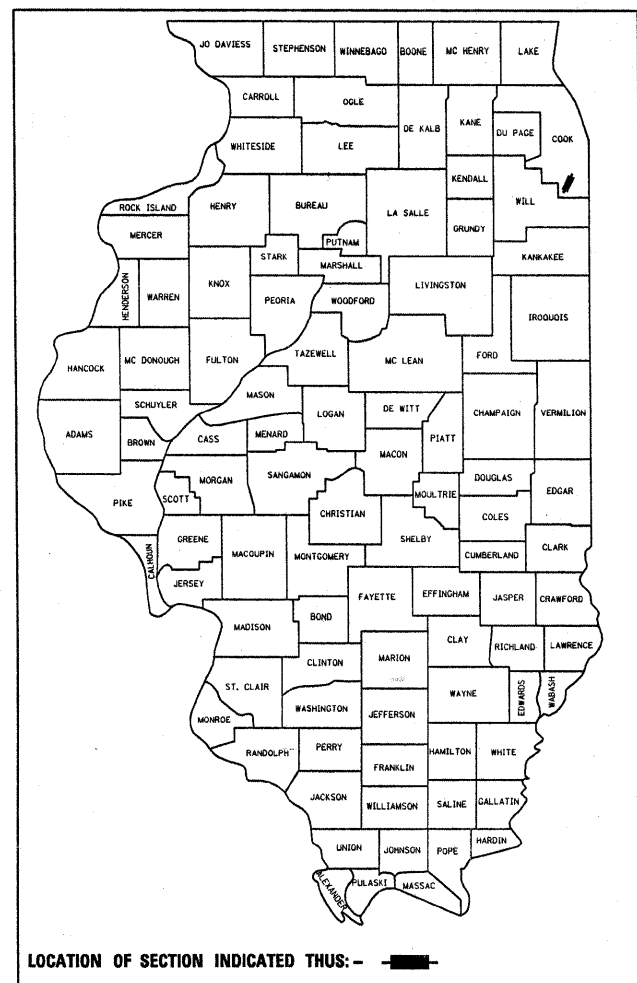
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

PROPOSED
HIGHWAY PLANS

FAU ROUTE 2820: GOVERNORS HIGHWAY
CRAWFORD AVENUE TO 175TH STREET
SECTION 44RS-6
RESURFACING (3P)

COOK COUNTY
C-91-837-09

D-91-837-09



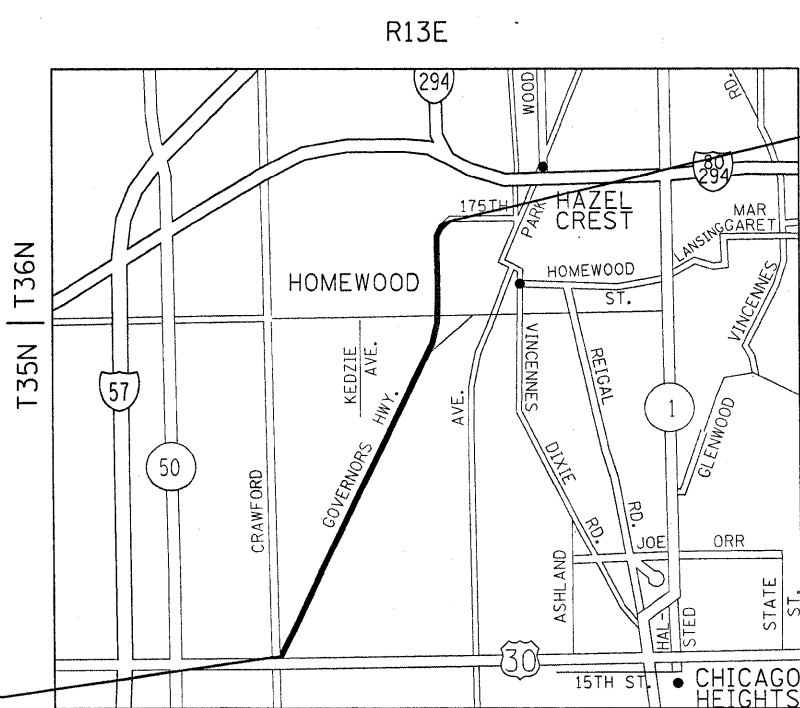
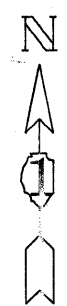
LOCATION OF SECTION INDICATED THUS: - ■ -

FOR INDEX OF SHEETS, SEE SHEET NO. 2

THE PROJECT IS LOCATED IN THE VILLAGES OF HAZEL CREST, HOMEWOOD, FLOSSMOOR, AND OLYMPIA FIELDS

TRAFFIC DATA

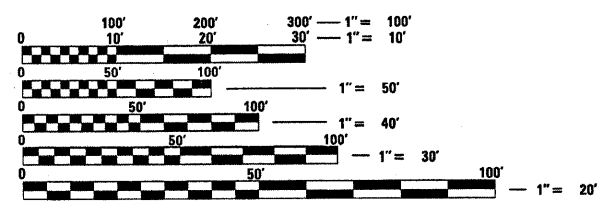
ADT (2006) = 11,300
POSTED SPEED LIMIT = 40 TO 50 MPH



IMPROVEMENT ENDS STA 270+11

IMPROVEMENT BEGINS STA 22+51

OMMISSIONS OCCUR FROM
 STA. 24+66 TO STA. 25+85
 STA. 97+34 TO STA. 100+85
 STA. 130+49 TO STA. 131+94



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

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

PROJECT ENGINEER JENPAI CHANG (847) 705-4432
PROJECT MANAGER KEN ENG
CONTRACT NO. 60H97

GROSS LENGTH = 24,760 FT. = 4.689 MILE
NET LENGTH = 24,145 FT. = 4.573 MILE

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

SUBMITTED DECEMBER 9, 20 09

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

January 29, 20 10
Scott E. Sted, P.E.
 ENGINEER OF DESIGN AND ENVIRONMENT

January 29, 20 10
Christine M. Reed
 DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS

INDEX OF SHEETS

STATE STANDARDS

GENERAL NOTES

<u>SHEET NO.</u>	<u>DESCRIPTION</u>	<u>STANDARD NO.</u>	<u>DESCRIPTION</u>
1	TITLE SHEET	000001-05	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
2	INDEX OF SHEETS, STATE STANDARDS & GENERAL NOTES	420001-07	PAVEMENT JOINTS
3-4	SUMMARY OF QUANTITIES	420701-02	PAVEMENT FABRIC
5-8	EXISTING AND PROPOSED TYPICAL SECTIONS	442101-07	CLASS B PATCHES
9-17	ROADWAY AND PAVEMENT MARKING PLAN	442201-03	CLASS C AND D PATCHES
18-23	DETECTOR LOOPS REPLACEMENT PLANS	630001-08	STEEL PLATE BEAM GUARDRAIL
24	DETAILS FOR FRAMES AND LIDS ADJUSTMENT WITH MILLING, BD600-03 (BD-8)	631006-07	TRAFFIC BARRIER TERMINAL, TYPE 1B
25	PAVEMENT PATCHING FOR HMA SURFACED PAVEMENT, BD 400-04 (BD-22)	635006-03	REFLECTOR AND TERMINAL MARKER PLACEMENT
26	CURB OR CURB AND CUTTER REMOVAL AND REPLACEMENT, BD600-06 (BD-24)	635011-02	REFLECTOR MARKER AND MOUNTING DETAILS
27	BUTT JOINT AND HMA TAPER, BD 400-05 (BD-32)	701606-06	URBAN LANE CLOSURE, MULTILANE, 2W WITH MOUNTABLE MEDIAN
28	TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS, TC-10	701701-06	URBAN LANE CLOSURE, MULTILANE INTERSECTION
29	TYPICAL APPLICATIONS: RAISED REFLECTIVE PAVEMENT MARKERS (SNOW PLOW RESISTANT), TC-11	701901-01	TRAFFIC CONTROL DEVICES
30	DISTRICT ONE TYPICAL PAVEMENT MARKINGS, TC-13	886001-01	DETECTOR LOOP INSTALLATION
31	TRAFFIC CONTROL AND PROTECTION AT TURN BAYS (TO REMAIN OPEN TO TRAFFIC), TC-14	886006-01	TYPICAL LAYOUT FOR DETECTION LOOPS
32	PAVEMENT MARKING LETTERS AND SYMBOLS FOR TRAFFIC STAGING, TC-16		
33	ARTERIAL ROAD INFORMATION SIGNING, TC-22		
34	DISTRICT ONE DETECTOR LOOP INSTALLATION DETAILS FOR ROADWAY RESURFACING, TS-07		

BEFORE STARTING ANY EXCAVATION, THE CONTRACTOR SHALL CALL "JULIE" AT (800) 892-0123 FOR FIELD LOCATIONS OF BURIED ELECTRIC, TELEPHONE AND GAS UTILITIES (48 HOUR NOTIFICATION IS REQUIRED).

THE CONTRACTOR WILL NOT BE ABLE TO SET UP A YARD OR FIELD OFFICE ON STATE (OR TOLLWAY) PROPERTY WITHOUT THE WRITTEN PERMISSION OF THE DEPARTMENT (OR ISTHA).

BUTT JOINTS WILL BE INSTALLED AT THE ENDS OF RESURFACING (WHERE RESURFACING MEETS EXISTING PAVEMENT) IN ACCORDANCE WITH THE "BUTT JOINT AND HMA TAPER DETAILS" SHEET INCLUDED IN THE PLANS UNLESS OTHERWISE SPECIFIED.

WHEN MILLED PAVEMENT IS OPEN TO TRAFFIC, THE MAXIMUM GRADE DIFFERENTIAL BETWEEN PASSES OF THE MILLING MACHINE SHALL NOT EXCEED 1/2 INCHES WHERE THE SPEED LIMIT IS 45 MPH OR LESS, AND 1 INCH WHERE THE SPEED LIMIT IS OVER 45 MPH. WITH WRITTEN APPROVAL FROM THE RESIDENT ENGINEER, A MAXIMUM GRADE DIFFERENTIAL OF 3 INCHES MAY BE ALLOWED IF THE EDGE OF THE MILLING IS SLOPED A MINIMUM OF 1:3 (V:H).

WHEN ARTIFICIAL LIGHTING IS UTILIZED IN NIGHT OPERATIONS, THE CONTRACTOR SHALL EXERCISE THE UTMOST PRECAUTIONS IN PREVENTING ADVERSE VISIBILITY TO THE MOTORING PUBLIC AND ADJOINING RESIDENTIAL AREAS.

ALL PAVEMENT PATCHING LOCATIONS WILL BE DETERMINED IN THE FIELD BY THE ENGINEER.

BEFORE BEGINNING ANY WORK, THE CONTRACTOR SHALL RETAIN AND RECORD FOR FUTURE REFERENCE, ALL EXISTING PAVEMENT MARKING LINES (AND RAISED REFLECTIVE PAVEMENT MARKERS) IN ORDER THAT THESE LOCATIONS CAN BE RE-ESTABLISHED FOR STRIPING. EXACT LOCATIONS OF ALL PAVEMENT MARKINGS SHALL BE AS DIRECTED BY THE ENGINEER.

ALL PAVEMENT MARKINGS AND RAISED REFLECTIVE PAVEMENT MARKERS OBLITERATED BY MILLING AND RESURFACING OPERATIONS ON SIDE STREETS AND ENTRANCES SHALL BE REPLACED AND PAID FOR IN KIND.

THE RESIDENT ENGINEER SHALL CONTACT PATRICE HARRIS, AREA TRAFFIC FIELD ENGINEER AT (708) 597-9800 A MINIMUM OF 2 WEEKS PRIOR TO PLACEMENT OF FINAL PAVEMENT MARKINGS.

THE RESIDENT ENGINEER SHALL CONTACT THE TRAFFIC CONTROL SUPERVISOR AT (847) 705-4470 A MINIMUM OF 72 HOURS PRIOR TO THE INSTALLATION OF ANY TEMPORARY TRAFFIC CONTROL DEVICES.

FILE NAME =	USER NAME = aqeelff	DESIGNED -- FFA 7-20-09	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	GOVERNORS HIGHWAY INDEX OF SHEETS, STATE STANDARDS AND GENERAL NOTES			F.A.J. RTE. 2820	SECTION 44RS-6	COUNTY COOK	TOTAL SHEETS 34	SHEET NO. 2
et\pw_work\NPWIDOT\ADUEELFF\d0145733\0183709-sht-plan.dgn		DRAWN -	REVISED -		SCALE:	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.	FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			
		CHECKED -	REVISED -									
		DATE -	REVISED -									

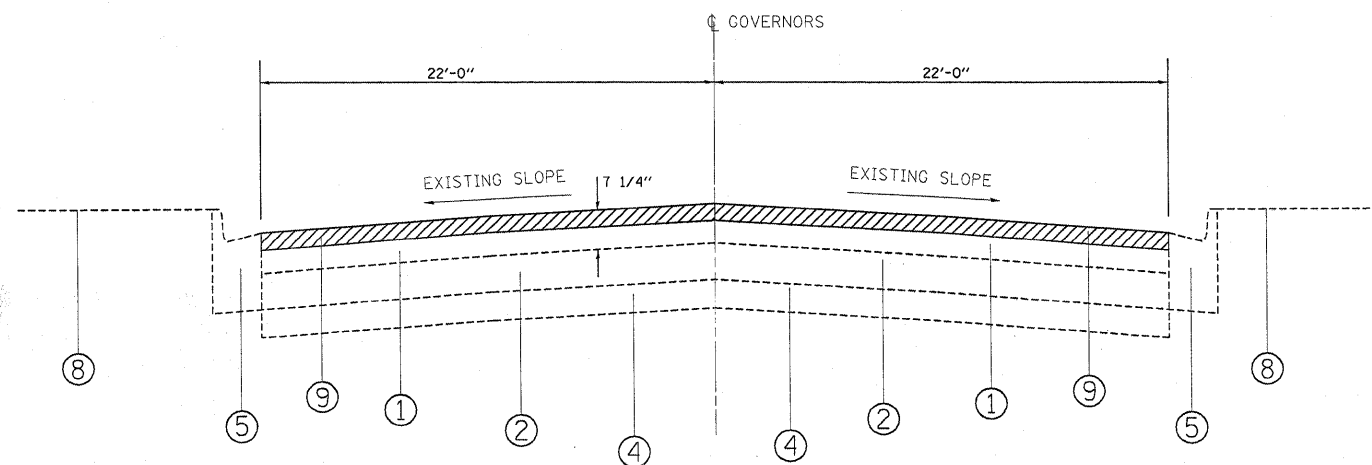
URBAN

URBAN

SUMMARY OF QUANTITIES			CONSTRUCTION TYPE CODE						SUMMARY OF QUANTITIES			CONSTRUCTION TYPE CODE					
CODE NO	ITEM	UNIT	TOTAL QUANTITIES	1000	Y031-1F					TOTAL QUANTITIES	1000	Y031-1F					
				ROADWAY	SIGNAL						ROADWAY	SIGNAL					
* 85000200	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	3		3												
* 87301305	ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	4240		4240												
* 87900200	DRILL EXISTING HANDHOLE	EACH	11		11												
* 88500100	INDUCTIVE LOOP DETECTOR	EACH	11		11												
* 88600100	DETECTOR LOOP, TYPE I	FOOT	427		427												
* 88600600	DETECTOR LOOP REPLACEMENT	FOOT	2370	2370													
* 89502300	REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	3580		3580												
X0322256	TEMPORARY INFORMATION SIGNING	SO FT	51.4	51.4													
Z0017202	DOWEL BARS 1 1/2"	EACH	560	560													
Z0018500	DRAINAGE STRUCTURES TO BE CLEANED	EACH	21	21													
Z0075310	TIE BARS 3/4"	EACH	505	505													
* SPECIALTY ITEMS																	

LEGEND

- ① EXISTING HOT-MIX ASPHALT SURFACE, 5''(±) AFTER MILLING
- ② EXISTING PCC BASE COURSE, 8''(±)
- ③ EXISTING PCC PAVEMENT, 11''(±)
- ④ EXISTING GRANULAR SUB-BASE, 4''
- ⑤ EXISTING COMBINATION CONCRETE CURB & GUTTER, TYPE B-6.12
- ⑥ EXISTING COMBINATION CONCRETE CURB & GUTTER, TYPE B-6.24
- ⑦ EXISTING AGGREGATE SHOULDER, TYPE B
- ⑧ EXISTING TOP SOIL AND SODDING
- ⑨ PROPOSED HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/4''
- ⑩ PROPOSED HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70, 1 1/2''
- ⑪ PROPOSED POLYMERIZED LEVELING BINDER (MM), IL-4.75, N50, 3/4''
- ⑫ PROPOSED COMBINATION CONCRETE CURB & GUTTER REMOVAL & REPLACEMENT (LOCATIONS TO BE DETERMINED BY THE ENGINEER)
- ⑬ PROPOSED AGGREGATE WEDGE SHOULDER, TYPE B
- ⑭ PROPOSED GRADING AND SHAPING SHOULDERS
- ⑮ PROPOSED CLASS B PATCHES, 11''



EXISTING TYPICAL SECTION
STATION:

68+00 TO 71+00
152+42 TO 165+11

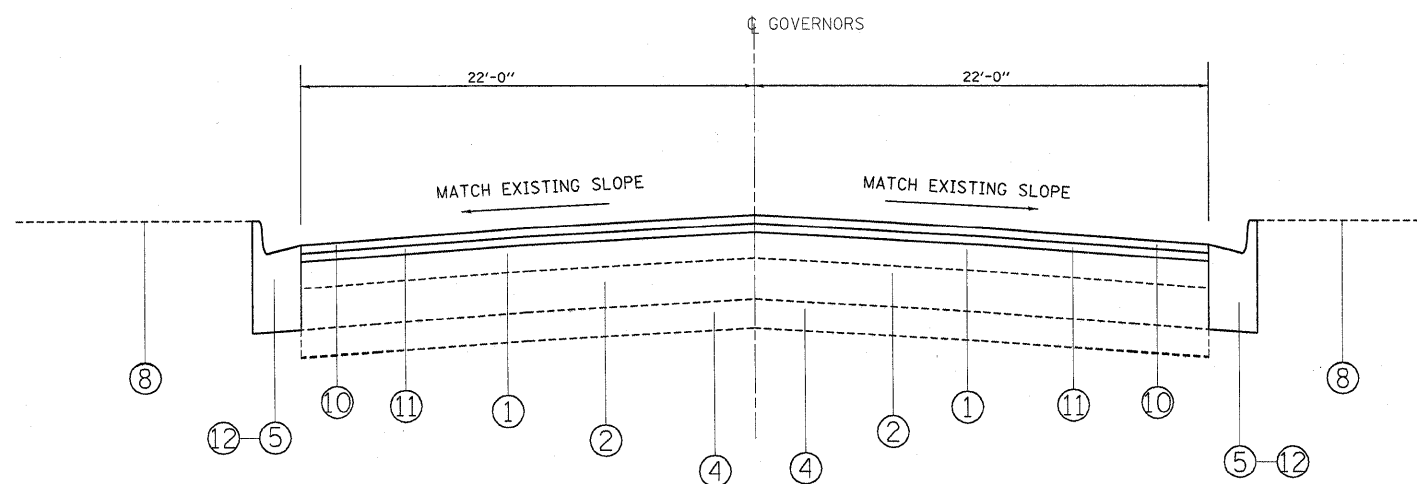
HOT-MIX ASPHALT MIXTURE REQUIREMENTS

	MIXTURE TYPE	AIR VOIDS (%)
ROADWAY	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70 (IL-9.5MM)	4% @ 70 GYR
	POLYMERIZED LEVELING BINDER (MM), IL 4.75, N50	4% @ 50 GYR
PATCHES	CLASS D PATCHES, (BINDER IL-19.0 MM)	4% @ 70 GYR

THE UNIT WEIGHT USED TO CALCULATE ALL HOT-MIX ASPHALT SURFACE MIXTURE QUANTITIES IS 112 LBS/SQ YD/IN

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

NOTE: MILL FIRST BEFORE PATCHING

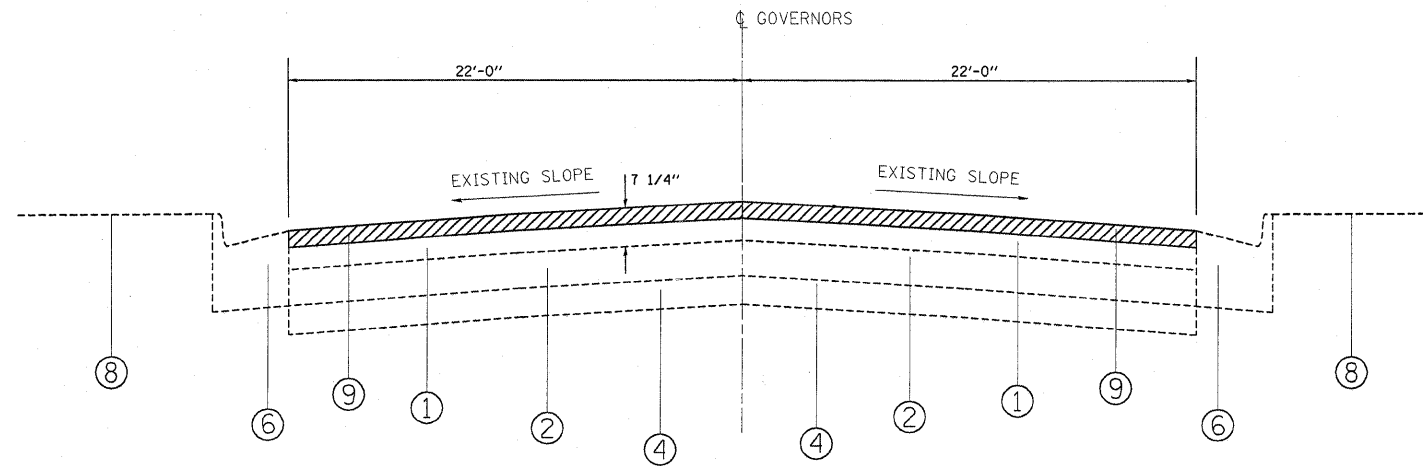


PROPOSED TYPICAL SECTION
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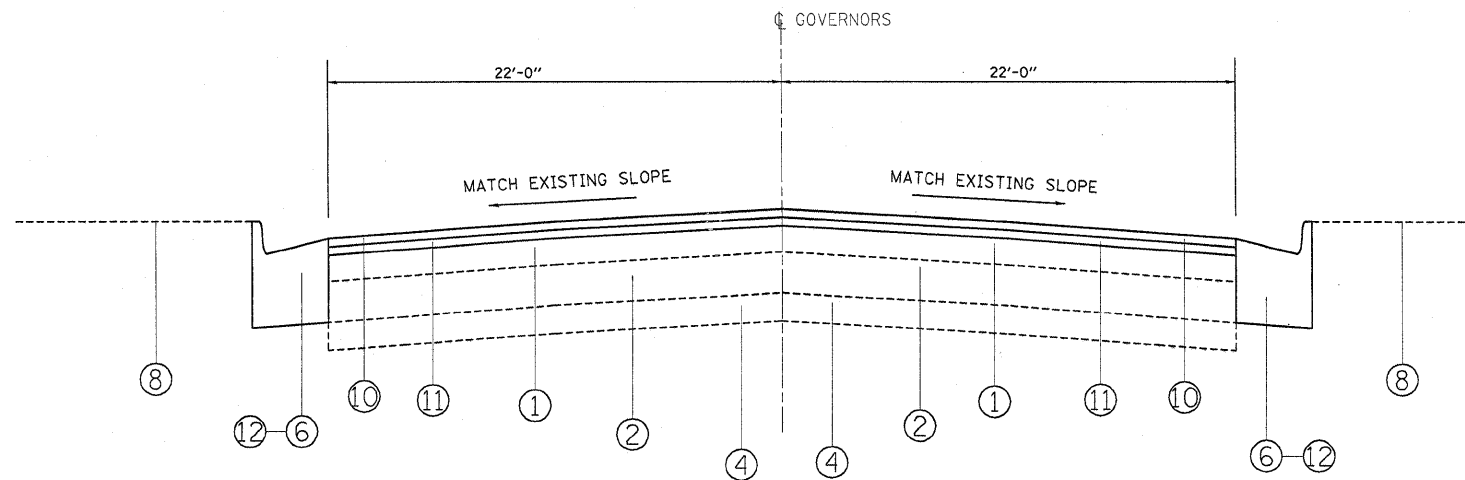
68+00 TO 71+00
152+42 TO 165+11

LEGEND

- ① EXISTING HOT-MIX ASPHALT SURFACE, 5''(±) AFTER MILLING
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EXISTING TYPICAL SECTION
STATION:
127+00 TO 135+46
209+43 TO 223+87

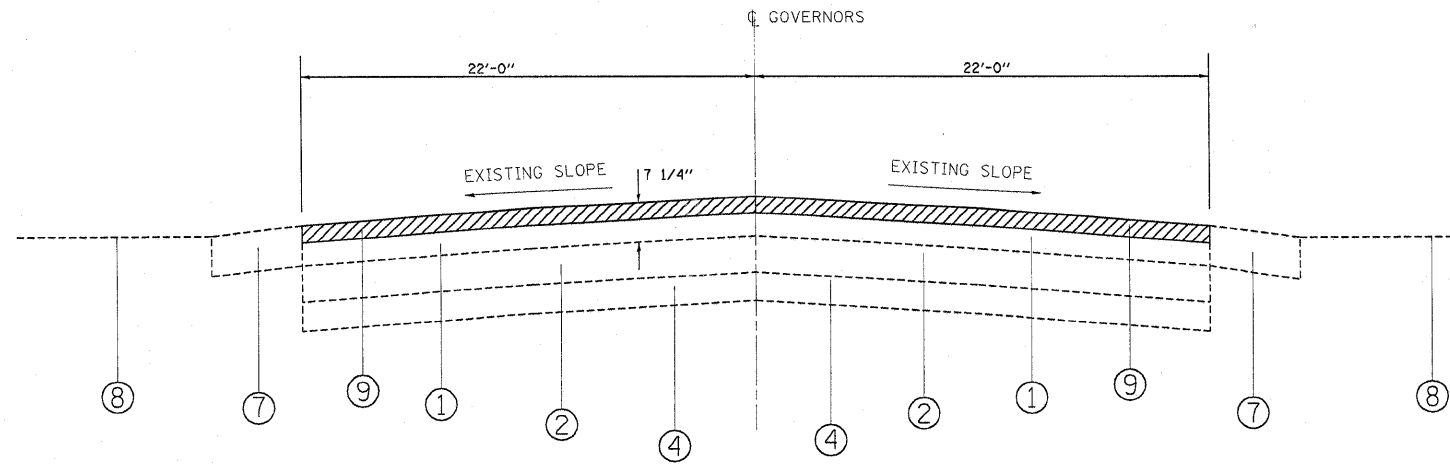


PROPOSED TYPICAL SECTION
STATION:
127+00 TO 135+46
209+43 TO 223+87

FILE NAME =	USER NAME = oqueelff	DESIGNED - FFA 7-20-09	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	GOVERNORS HIGHWAY EXISTING AND PROPOSED TYPICAL SECTIONS	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
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PLOT DATE = 11/12/2009	DATE -	CHECKED -	REVISED -			CONTRACT NO. 60H97					
		DATE -	REVISED -			SCALE:	SHEET NO. 2 OF 4 SHEETS	STA. TO STA.	ILLINOIS FED. AID PROJECT		

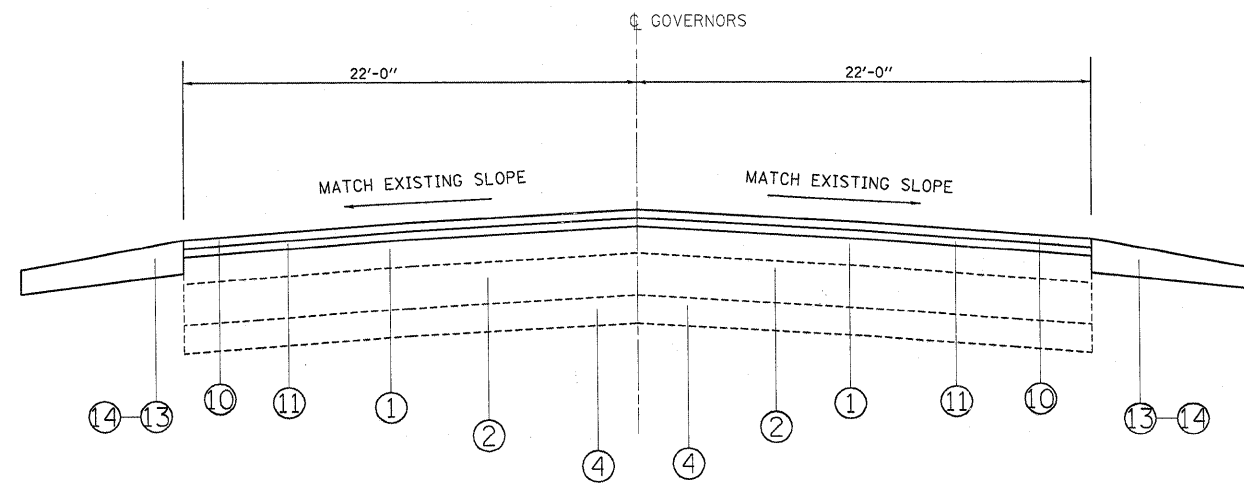
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EXISTING TYPICAL SECTION
STATION:

22+51 TO 68+00
71+00 TO 127+00
135+46 TO 151+42
165+11 TO 209+43
223+87 TO 256+90



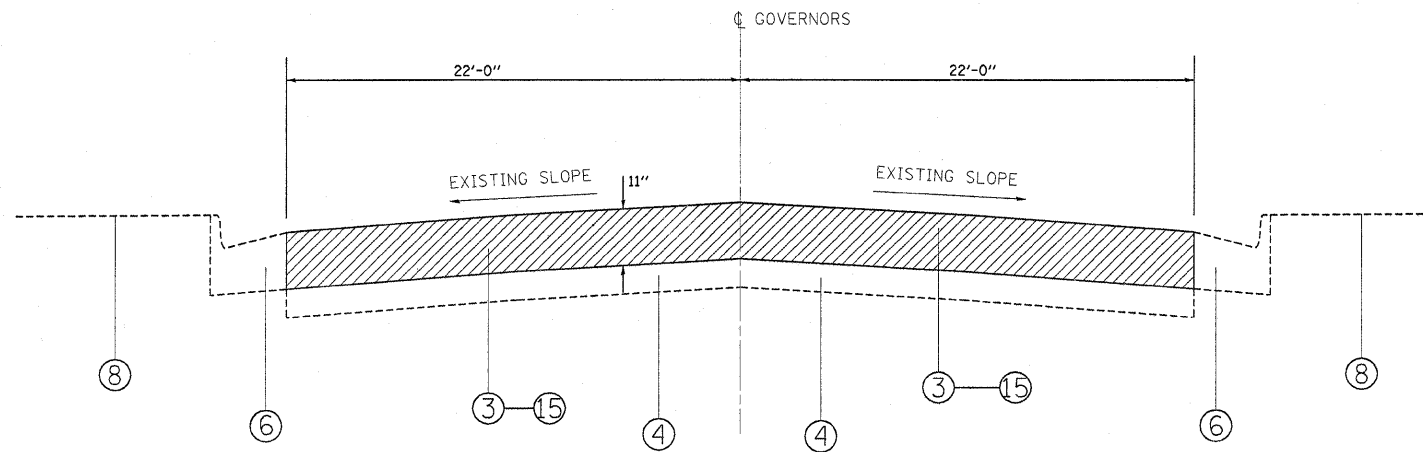
PROPOSED TYPICAL SECTION
STATION:

22+51 TO 68+00
71+00 TO 127+00
135+46 TO 151+42
165+11 TO 209+43
223+87 TO 256+90

FILE NAME =	USER NAME = aqueslff	DESIGNED - FFA 7-20-09	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	GOVERNORS HIGHWAY EXISTING AND PROPOSED TYPICAL SECTIONS	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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PLOT SCALE = 50,0000 ' / IN.	CHECKED -	REVISED -	CONTRACT NO. 60H97							
PLOT DATE = 11/12/2009	DATE -	REVISED -	ILLINOIS FED. AID PROJECT							
					SCALE:	SHEET NO. 3 OF 4 SHEETS		STA. TO STA.		

LEGEND

- ① EXISTING HOT-MIX ASPHALT SURFACE, 5''(±) AFTER MILLING
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- ⑮ PROPOSED CLASS B PATCHES, 11''



EXISTING & PROPOSED TYPICAL SECTION
STATION:
256+90 TO 270+11

NOTE: CLASS B PATCHES TO BE DONE ON THIS SECTION ONLY.
NO RESURFACING

FILE NAME =	USER NAME = oqueelff	DESIGNED - FFA 7-20-09	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	GOVERNORS HIGHWAY EXISTING AND PROPOSED TYPICAL SECTIONS			F.A.U. RTE. 2820	SECTION 44RS-6	COUNTY COOK	TOTAL SHEETS 34	SHEET NO. 8
c:\pwork\pwidot\aqueelff\d0145733\0163709-sht-plan.dgn		DRAWN -	REVISED -		SCALE:	SHEET NO. 4 OF 4 SHEETS	STA. TO STA.	CONTRACT NO. 60H97				
		CHECKED -	REVISED -		ILLINOIS FED. AID PROJECT							
		DATE -	REVISED -									

*SIDEStreETS:
 -RESURFACING LIMITS ARE TO RADIUS
 RETURNS WITH 4.5' BUTT JOINTS

-PROPOSED HMA SURFACE REMOVAL, 2 1/4"

-PROPOSED POLYMERIZED LEVELING BINDER
 (MACHINE METHOD), IL-4.75, N50, 3/4"

-PROPOSED HMA SURFACE COURSE, MIX "D", N70, 1 1/2"
 THPL PAV'T MARKING
 4" WHITE LANE LINE
 10' DASH, 30' SPACE (TYP)

GOVERNORS HWY.

PROP. HMA SURF. REM. 2-1/4"
 PROP. POLYMERIZED LEVELING BINDER (MM), IL 4.75, N50, 3/4"
 PROP. HMA SURF. COURSE MIX "D" N70, 1-1/2"

EXIST. AGG. SHOULDER

THPL PAV'T MARKING
 4" DOUBLE YELLOW LINE
 @ 11" C-C (TYP)

EXIST. AGG. SHOULDER

NOTE:
 FOR RAISED REFLECTIVE PAVEMENT MARKERS, REFER TO TYPICAL
 APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS
 (SNOW PLOW RESISTANT) AND DISTRICT TYPICAL PAVEMENT MARKINGS

MATCHLINE STA. 42+00

MATCHLINE STA. 57+00

GOVERNORS HWY.

PROP. HMA SURF. REM. 2-1/4"
 PROP. POLYMERIZED LEVELING BINDER (MM), IL 4.75, N50, 3/4"
 PROP. HMA SURF. COURSE MIX "D" N70, 1-1/2"

THPL PAV'T MARKING
 4" WHITE LANE LINE
 10' DASH, 30' SPACE (TYP)

EXIST. AGG. SHOULDER

THPL PAV'T MARKING
 24" WHITE LINE
 STOP BAR (TYP)

EXIST. B-6.12 C&G

LIMIT OF RESURFACING
 @ RADIUS RETURN

THPL PAV'T MARKING
 4" DOUBLE YELLOW LINE
 @ 11" C-C (TYP)

EXIST. AGG. SHOULDER

THPL PAV'T MARKING
 12" YELLOW LINE, 45 DEG. DIAG.

THPL PAV'T MARKING
 LETTERS AND SYMBOLS (TYP)

EXIST. B-6.12 C&G

LIMIT OF RESURFACING
 @ RADIUS RETURN

THPL PAV'T MARKING
 6" WHITE LANE LINE (TYP)

THPL PAV'T MARKING
 12" WHITE LINE, 6' DASH, 2' SPACE
 CROSSWALK (TYP)

BURKE RD.

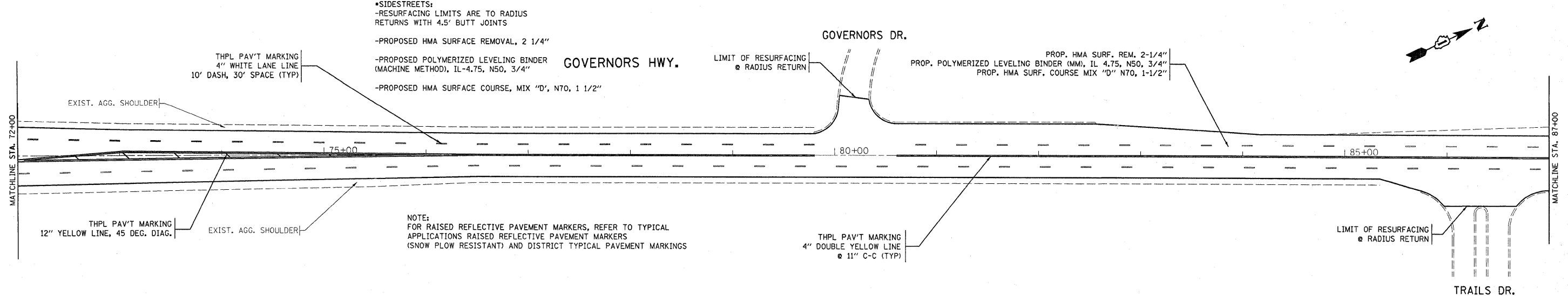
203rd ST.

MATCHLINE STA. 57+00

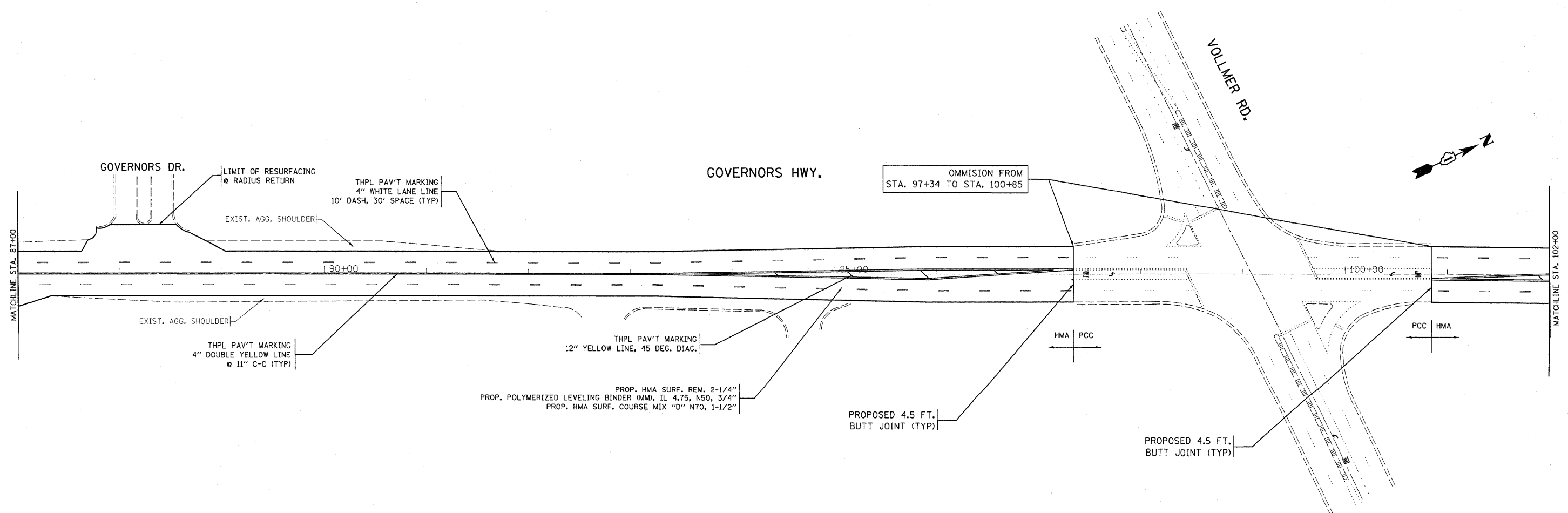
MATCHLINE STA. 72+00

FILE NAME =	USER NAME = aqealff	DESIGNED - FFA 7-20-09	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	ROADWAY AND PAVEMENT MARKING PLAN GOVERNORS HWY. (CRAWFORD AVE. - 175th ST.)			F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
gs\pwwork\pwwid\AQEELFF\0145733\0193709-sht-plan.dgn		DRAWN -	REVISED -					2820	44 RS-6	COOK	34	10
PLOT SCALE = 50,0000 ' / IN.		CHECKED -	REVISED -		SCALE: 1"=50'			SHEET NO. OF SHEETS STA. TO STA.		CONTRACT NO. 60H97		
PLOT DATE = 11/12/2009		DATE -	REVISED -					ILLINOIS FED. AID PROJECT				

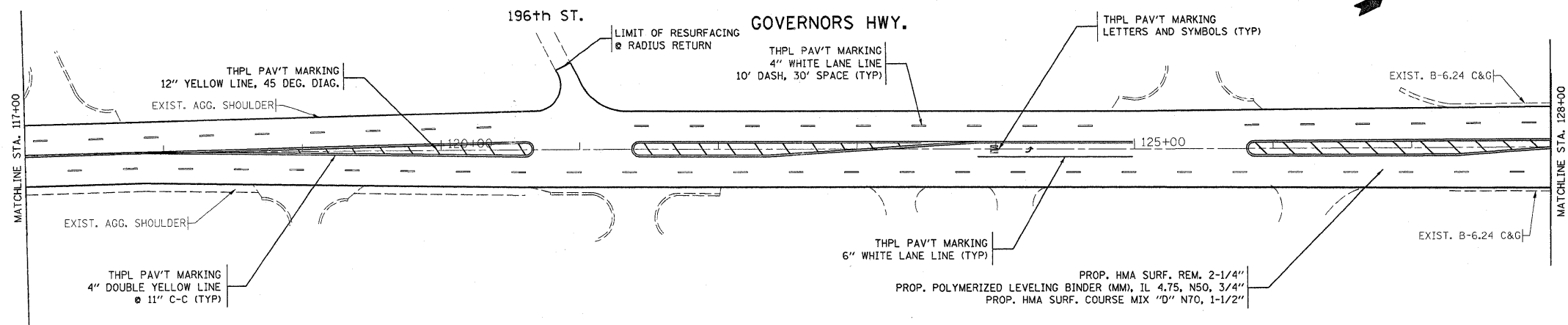
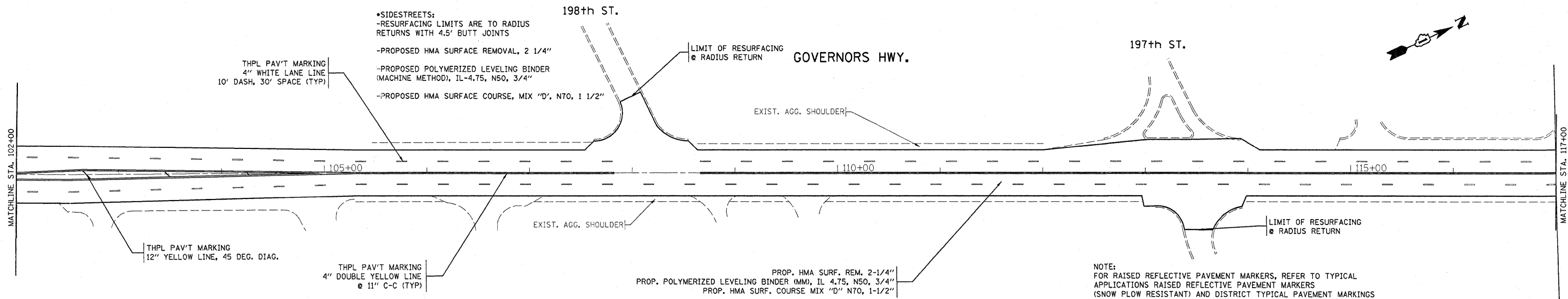
- SIDESTREETS:
- RESURFACING LIMITS ARE TO RADIUS RETURNS WITH 4.5' BUTT JOINTS
- PROPOSED HMA SURFACE REMOVAL, 2 1/4"
- PROPOSED POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL-4.75, N50, 3/4"
- PROPOSED HMA SURFACE COURSE, MIX "D", N70, 1 1/2"



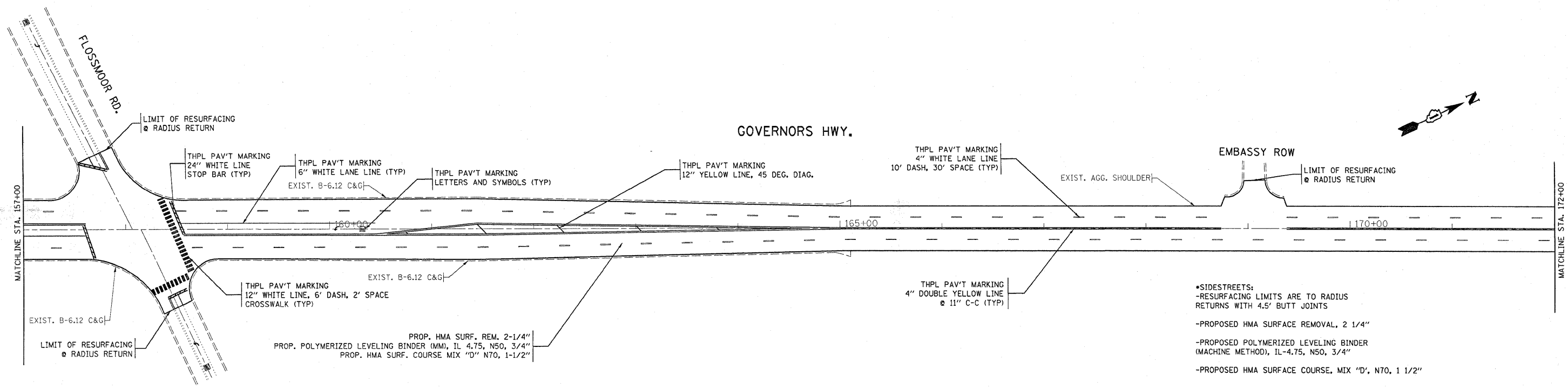
NOTE:
FOR RAISED REFLECTIVE PAVEMENT MARKERS, REFER TO TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS (SNOW PLOW RESISTANT) AND DISTRICT TYPICAL PAVEMENT MARKINGS



FILE NAME =	USER NAME = aqueeiff	DESIGNED - FFA 7-20-09	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	ROADWAY AND PAVEMENT MARKING PLAN GOVERNORS HWY. (CRAWFORD AVE. - 175th ST.)	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
ct:\pw_work\PIWIDOT\AQUEEIFF\d0145733\018	3709-shr:plandgn	DRAWN -	REVISED -			2820	44 RS-6	COOK	34	11	
	PLOT SCALE = 50,0000' / IN.	CHECKED -	REVISED -			CONTRACT NO. 60H97					
	PLOT DATE = 11/12/2009	DATE -	REVISED -			ILLINOIS FED. AID PROJECT					

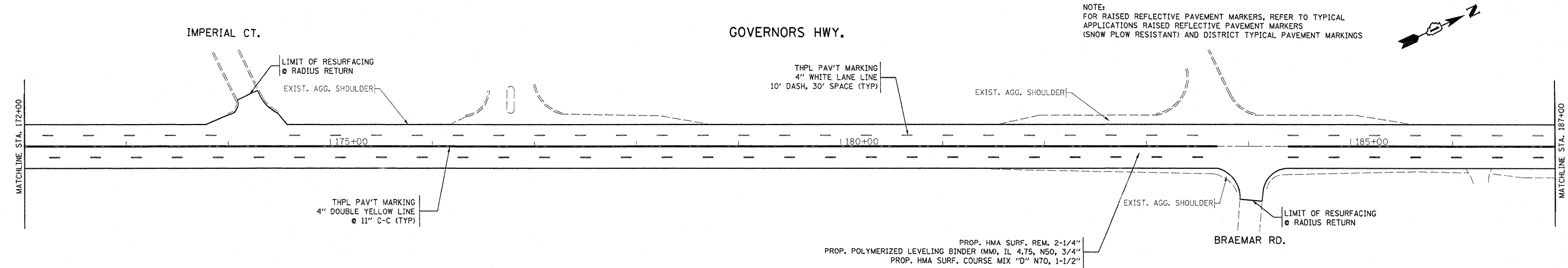


FILE NAME =	USER NAME = aqeelff	DESIGNED - FFA 7-20-09	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	ROADWAY AND PAVEMENT MARKING PLAN GOVERNORS HWY. (CRAWFORD AVE. - 175th ST.)			F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.			
ct:\pw_work\XPWIDOT\AQEELFF\08145733\0183729-sht-plan.dgn		DRAWN -	REVISED -		SCALE: 1"=50'	SHEET NO.	OF	SHEETS	STA.	TO STA.	2820	44 RS-6	COOK	34	12
PLOT SCALE = 50.0000' / IN.		CHECKED -	REVISED -		CONTRACT NO. 60H97										
PLOT DATE = 11/12/2009		DATE -	REVISED -		ILLINOIS FED. AID PROJECT										

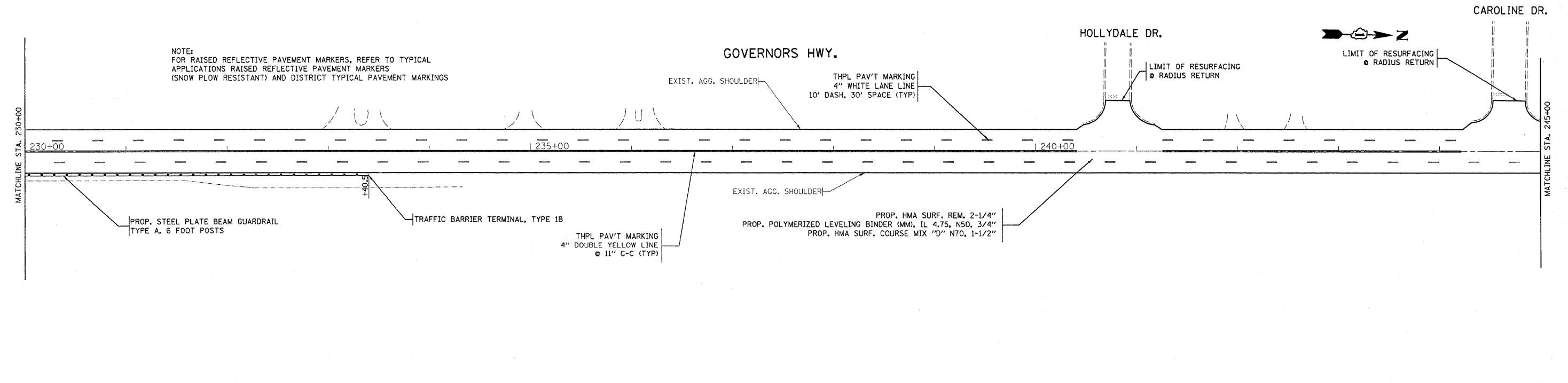
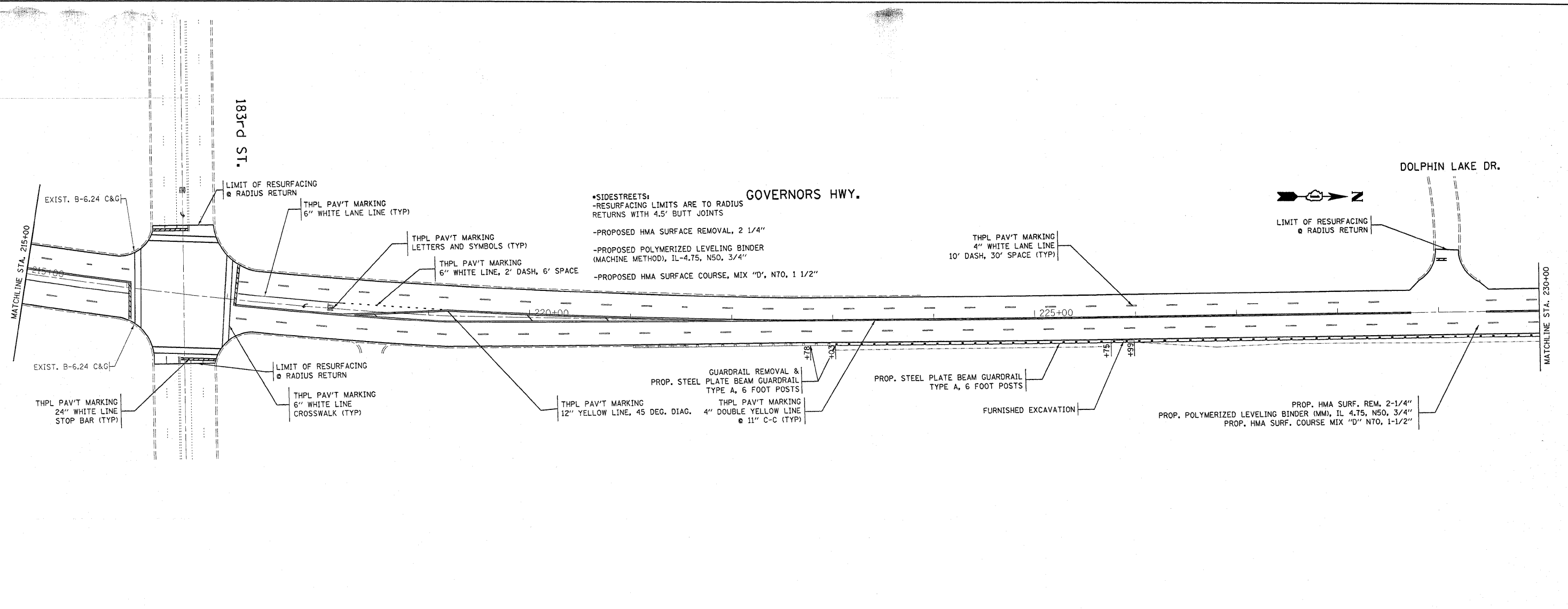


- *SIDESTREETS:
- RESURFACING LIMITS ARE TO RADIUS RETURNS WITH 4.5' BUTT JOINTS
- PROPOSED HMA SURFACE REMOVAL, 2 1/4"
- PROPOSED POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL-4.75, N50, 3/4"
- PROPOSED HMA SURFACE COURSE, MIX "D", N70, 1 1/2"

NOTE:
FOR RAISED REFLECTIVE PAVEMENT MARKERS, REFER TO TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS (SNOW PLOW RESISTANT) AND DISTRICT TYPICAL PAVEMENT MARKINGS



FILE NAME = c:\pwork\pwork\pwork\aqueelff\0145733\0183709-sht-plan.dgn	USER NAME = aqueelff	DESIGNED - FFA 7-20-09	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	ROADWAY AND PAVEMENT MARKING PLAN GOVERNORS HWY. (CRAWFORD AVE. - 175th ST.)			F.A.U. RTE. 2820	SECTION 44 RS-6	COUNTY COOK	TOTAL SHEETS 34	SHEET NO. 14
	PLOT SCALE = 50.0000' / IN.	CHECKED -	REVISED -					SCALE: 1"=50'	SHEET NO.	OF	SHEETS	STA.
PLOT DATE = 12/8/2009	DATE -	REVISED -	REVISED -									



FILE NAME =	USER NAME = equeiff	DESIGNED - FFA 7-20-09	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	ROADWAY AND PAVEMENT MARKING PLAN GOVERNORS HWY. (CRAWFORD AVE. - 175th ST.)			F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
os:\pwwork\pwwid\VAQUEELFF\0145733\0183709-sht-plan.dgn	PLOT SCALE = 50.0000' / IN.	CHECKED -	REVISED -					2820	44 RS-6	COOK	34	16
PLOT DATE = 11/30/2009	DATE -	REVISED -	REVISED -		SCALE: 1"=50'			SHEET NO. OF SHEETS STA. TO STA.			CONTRACT NO. 60H97	
ILLINOIS FED. AID PROJECT												

SCHEDULE OF QUANTITIES FOR MAGNETIC DETECTOR REPLACEMENTS

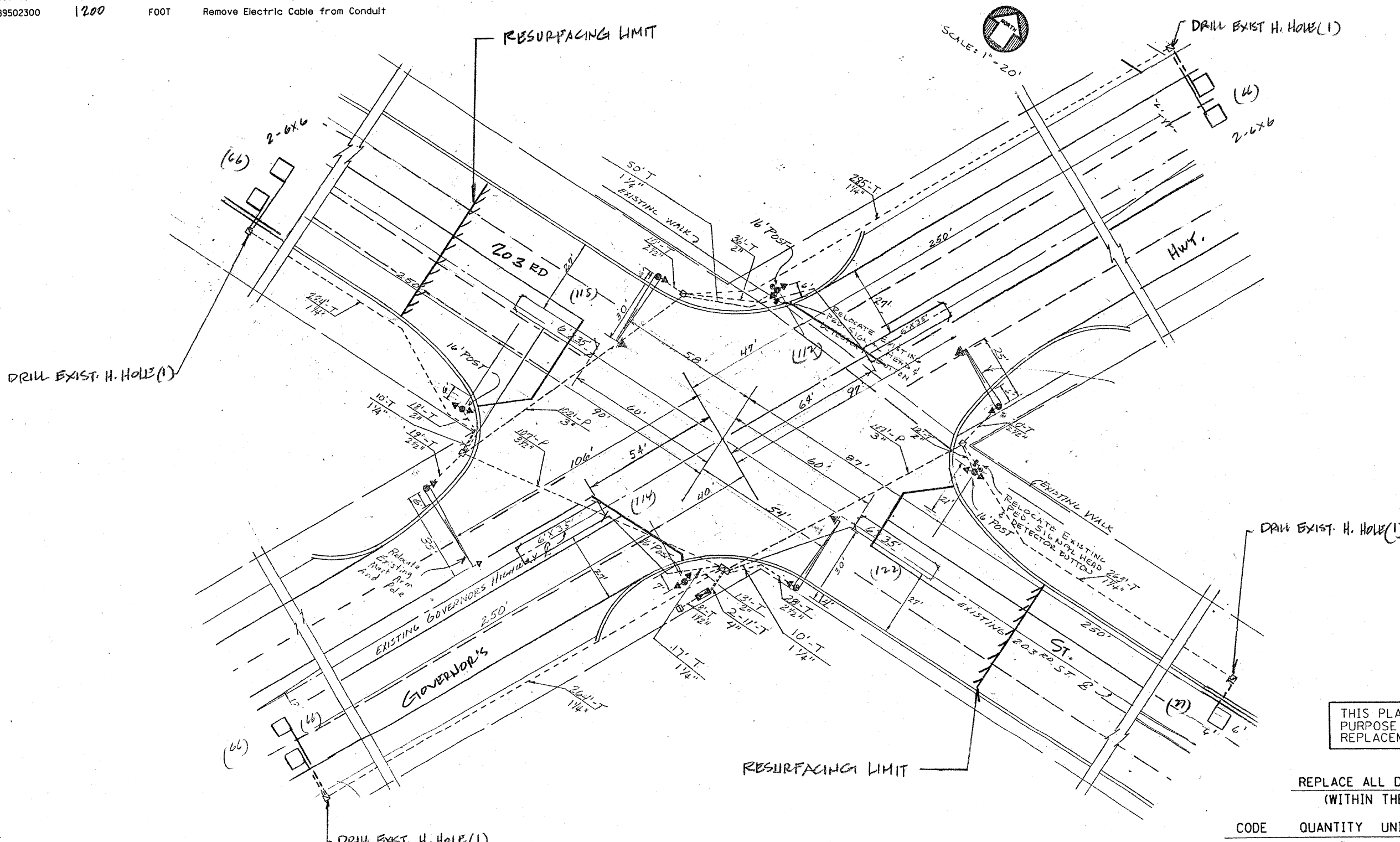
(* When Quantities Below Are Shown)

CODE	QUANTITY	UNIT	ITEM
81900200	0	FOOT	Trench and Backfill for Electrical Work
85000200	1	EACH	Maintenance of Existing Traffic Signal Installation
87301305	1470	FOOT	Electric Cable in Conduit, Lead-In No. 14 1-Pair
87900200	4	EACH	Drill Existing Handhole
88500100	4	EACH	Inductive Loop Detector
88600100	225	FOOT	Detector Loop, Type I
89502300	1200	FOOT	Remove Electric Cable from Conduit

All Magnetic Detectors will be replaced at a signalized intersections even if only one magnetic detector is within the resurfacing limits. The "Pay Items" shown above will be paid as per the loop replacement specifications direct for "Magnetic Detectors" during roadway resurfacing projects.

TRAFFIC SIGNAL LEGEND

	PROPOSED	EXISTING
DETECTOR LOOP		
SIGNAL HEAD		
G.S. CONDUIT IN TRENCH OR PUSHED		
SIGNAL HEAD WITH BACKPLATE		
RACEWAY FOR MAGNETIC DETECTOR, TYPE I OR II		
VEHICLE DETECTOR, NON-COMPENSATED MAGNETIC TYPE		



THIS PLAN IS FOR THE SOLE PURPOSE OF DETECTOR LOOP REPLACEMENTS ONLY

REPLACE ALL DETECTOR LOOPS AS SHOWN (WITHIN THE RESURFACING LIMITS)

CODE	QUANTITY	UNIT	ITEM
86600600	463	FOOT	DETECTOR LOOP, REPLACEMENT

FILE NAME =	USER NAME = kanthaphixaybc	DESIGNED - BCK	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DISTRICT ONE - DETECTOR LOOP REPLACEMENT GOVERNOR'S HWY. @ 203RD STREET	F.A.M. RTE. =	SECTION =	COUNTY =	TOTAL SHEETS =	SHEET NO. =
c:\pwwork\pwwork\KANTHAPHIXAYBC\d01126	4\tr\effia_legend_v7.dgn	DRAWN - BCK	REVISED -			2820	44RS-6	Cook	34	18
PLOT SCALE = 39.9360' / IN.	CHECKED - DAD	REVISED -	REVISED -			CONTRACT NO.				
PLOT DATE = 4/3/2009	DATE =	REVISED -	REVISED -			FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

SCHEDULE OF QUANTITIES FOR MAGNETIC DETECTOR REPLACEMENTS

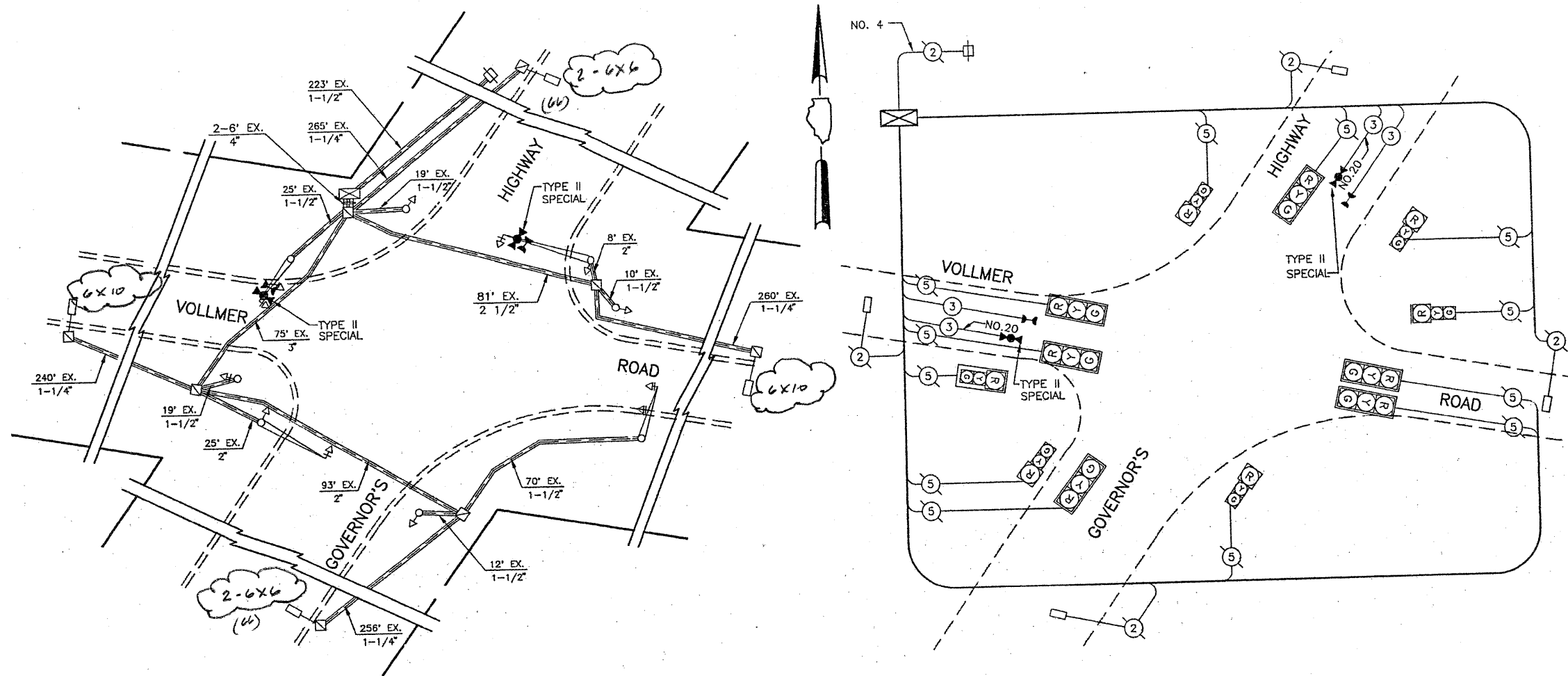
(* When Quantities Below Are Shown)

CODE	QUANTITY	UNIT	ITEM
81900200	0	FOOT	Trench and Backfill for Electrical Work
85000200	1	EACH	Maintenance of Existing Traffic Signal Installation
87301305	1540	FOOT	Electric Cable in Conduit, Lead-In No. 14 1-Pair
87900200	4	EACH	Drill Existing Handhole
88500100	4	EACH	Inductive Loop Detector
88600100	70	FOOT	Detector Loop, Type I
89502300	1280	FOOT	Remove Electric Cable from Conduit

All Magnetic Detectors will be replaced at a signalized Intersection; even if only one magnetic detector is within the resurfacing limits. The "Pay Items" shown above will be paid as per the loop replacement specifications direct for "Magnetic Detectors" during roadway resurfacing projects.

TRAFFIC SIGNAL LEGEND

	PROPOSED	EXISTING
DETECTOR LOOP		
SIGNAL HEAD		
G.S. CONDUIT IN TRENCH OR PUSHED		
SIGNAL HEAD WITH BACKPLATE		
RACEWAY FOR MAGNETIC DETECTOR, TYPE I OR II		
VEHICLE DETECTOR, NON-COMPENSATED MAGNETIC TYPE		



TRAFFIC SIGNAL PLAN
SCALE 1" = 20'

THIS PLAN IS FOR THE SOLE PURPOSE OF DETECTOR LOOP REPLACEMENTS ONLY

REPLACE ALL DETECTOR LOOPS AS SHOWN (WITHIN THE RESURFACING LIMITS)

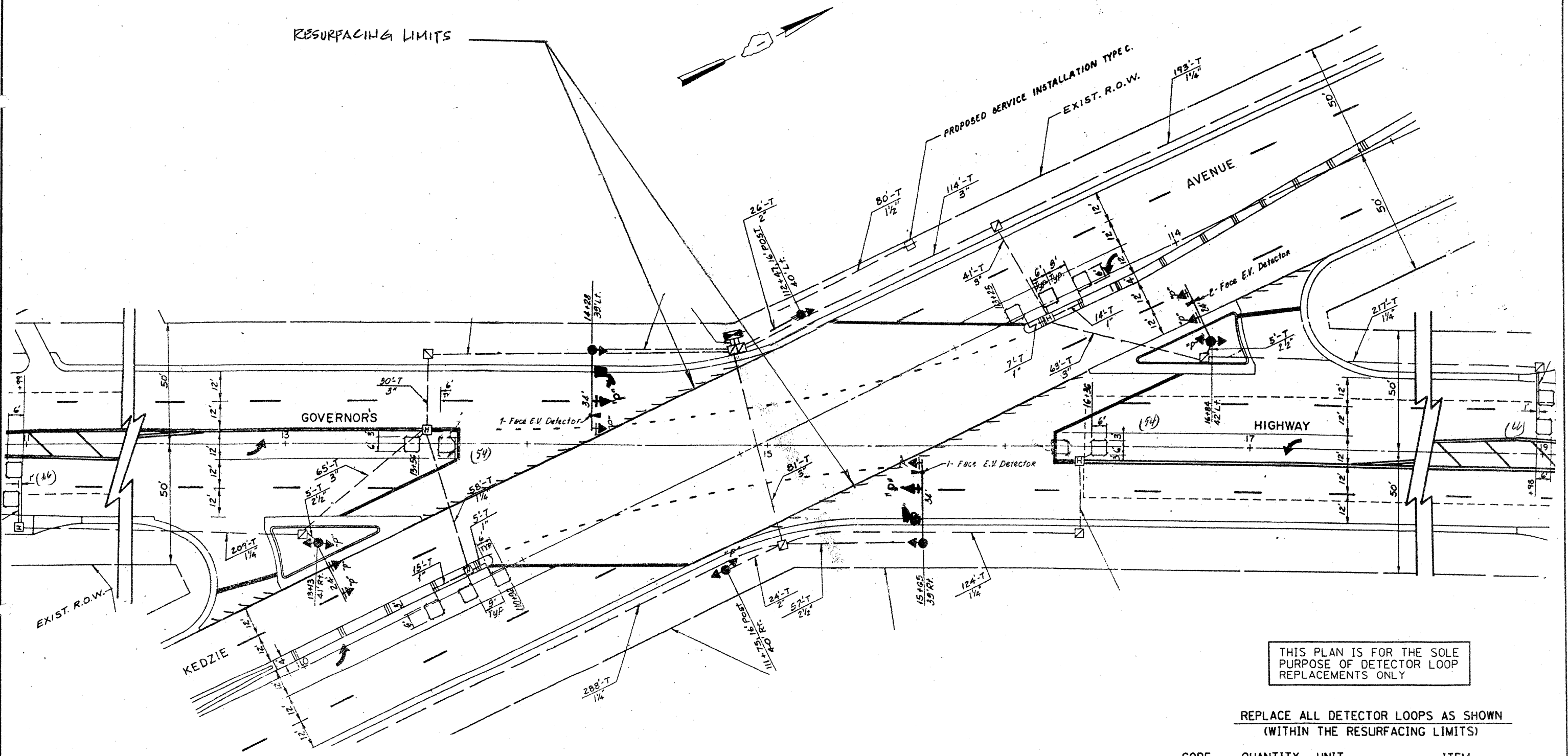
CODE	QUANTITY	UNIT	ITEM
86600600	132	FOOT	DETECTOR LOOP, REPLACEMENT

FILE NAME =	USER NAME = kanthaphixaybo	DESIGNED - BCK	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DISTRICT ONE - DETECTOR LOOP REPLACEMENT GOVERNOR'S HWY. @ VOLLMER ROAD	F.A.M. RTE. = 2820	SECTION = 44RS-6	COUNTY = COOK	TOTAL SHEETS = 34	SHEET NO. = 19	
et:\p\work\PIWIDOT\KANTHAPHIXAYBC\d01126	4\traffic.legend.v7.dgn	DRAWN - BCK	REVISED -			SCALE: NONE	SHEET NO. OF SHEETS STA. TO STA.	FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT	CONTRACT NO.	
PLOT SCALE = 39.9360 / IN.	CHECKED - DAD	REVISED -	REVISED -								
PLOT DATE = 4/3/2009	DATE	REVISED -	REVISED -								

TRAFFIC SIGNAL LEGEND

	PROPOSED	EXISTING
DETECTOR LOOP		
SIGNAL HEAD		
G.S. CONDUIT IN TRENCH OR PUSHED		
SIGNAL HEAD WITH BACKPLATE		
RACEWAY FOR MAGNETIC DETECTOR, TYPE I OR II		
VEHICLE DETECTOR, NON-COMPENSATED MAGNETIC TYPE		

RESURFACING LIMITS



THIS PLAN IS FOR THE SOLE PURPOSE OF DETECTOR LOOP REPLACEMENTS ONLY

REPLACE ALL DETECTOR LOOPS AS SHOWN (WITHIN THE RESURFACING LIMITS)

CODE	QUANTITY	UNIT	ITEM
86600600	240	FOOT	DETECTOR LOOP, REPLACEMENT

FILE NAME =	USER NAME = konthaphkeybo	DESIGNED - BCK	REVISED -
ci:\pwork\PWIDOT\KANTHAPHKEYBO\81125	4\tr-offic_legend_v7.dgn	DRAWN - BCK	REVISED -
	PLOT SCALE = 3/4" = 1' IN.	CHECKED - DAD	REVISED -
	PLOT DATE = 4/3/2009	DATE -	REVISED -

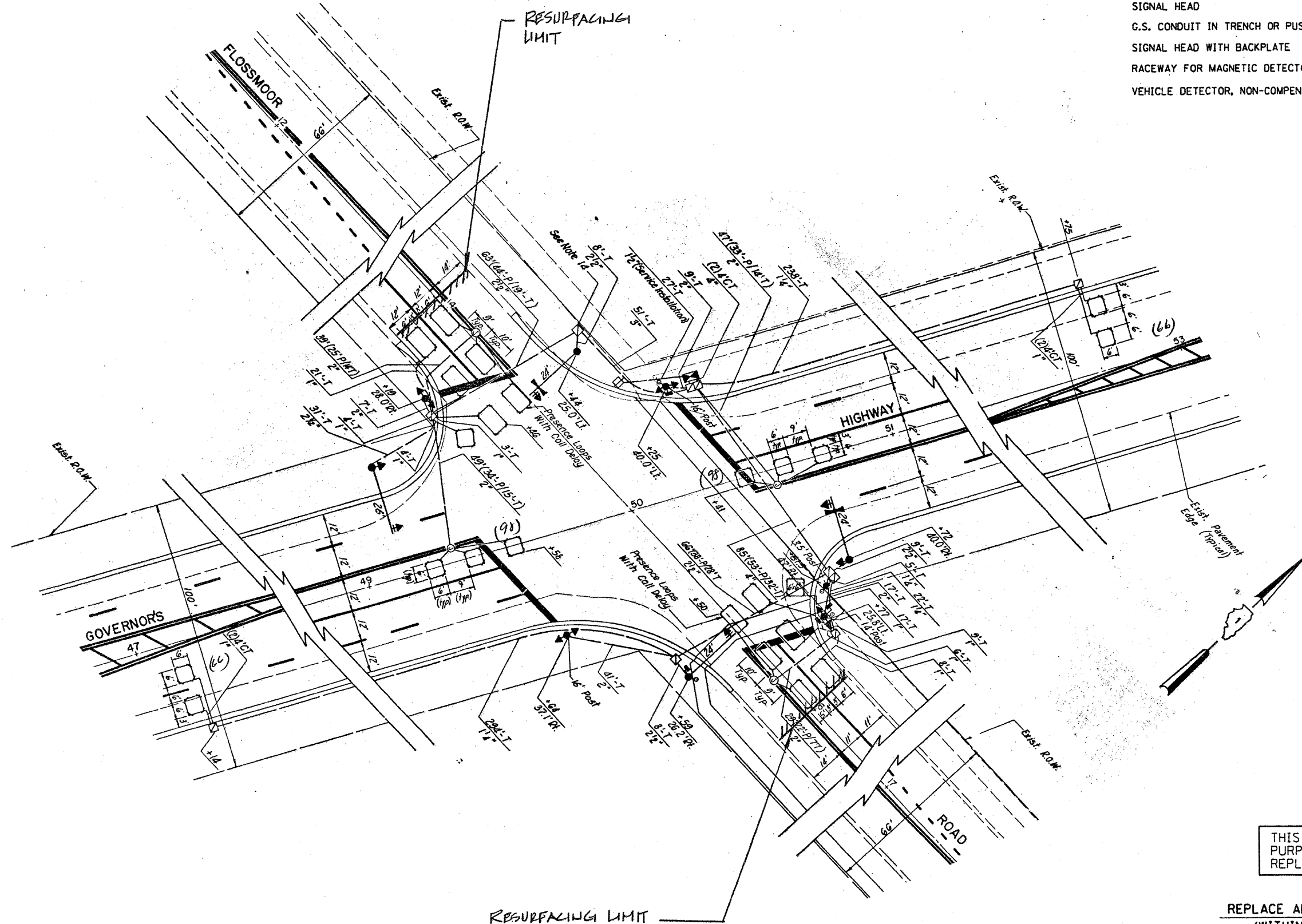
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

DISTRICT ONE - DETECTOR LOOP REPLACEMENT
GOVERNOR'S HWY. @ KEDZIE AVE.

SCALE: NONE	SHEET NO. OF SHEETS	STA. TO STA.	F.A. # RTE. 2820	SECTION 44RS-6	COUNTY COOK	TOTAL SHEETS 34	SHEET NO. 20
						CONTRACT NO.	
						ILLINOIS FED. AID PROJECT	

TRAFFIC SIGNAL LEGEND

	PROPOSED	EXISTING
DETECTOR LOOP		
SIGNAL HEAD		
G.S. CONDUIT IN TRENCH OR PUSHED		
SIGNAL HEAD WITH BACKPLATE		
RACEWAY FOR MAGNETIC DETECTOR, TYPE I OR II		
VEHICLE DETECTOR, NON-COMPENSATED MAGNETIC TYPE		



THIS PLAN IS FOR THE SOLE PURPOSE OF DETECTOR LOOP REPLACEMENTS ONLY

REPLACE ALL DETECTOR LOOPS AS SHOWN (WITHIN THE RESURFACING LIMITS)

CODE	QUANTITY	UNIT	ITEM
86600600	388	FOOT	DETECTOR LOOP, REPLACEMENT

FILE NAME =	USER NAME = kanthaphixoyba	DESIGNED - BCK	REVISED -
es:\pwwork\VPWIDOT\KANTHAPHIXAYBC\01126	4\traffic.legend.v7.dgn	DRAWN - BCK	REVISED -
PLOT SCALE = 3/4" = 1' IN.	CHECKED - DAD	REVISOR -	REVISED -
PLOT DATE = 4/3/2009	DATE -	REVISOR -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**DISTRICT ONE - DETECTOR LOOP REPLACEMENT
GOVERNORS HWY. @ FLOSSMOOR RD.**

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

F.A.M. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2820	44KS-6	COOK	34	21
CONTRACT NO.				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

SCHEDULE OF QUANTITIES FOR MAGNETIC DETECTOR REPLACEMENTS

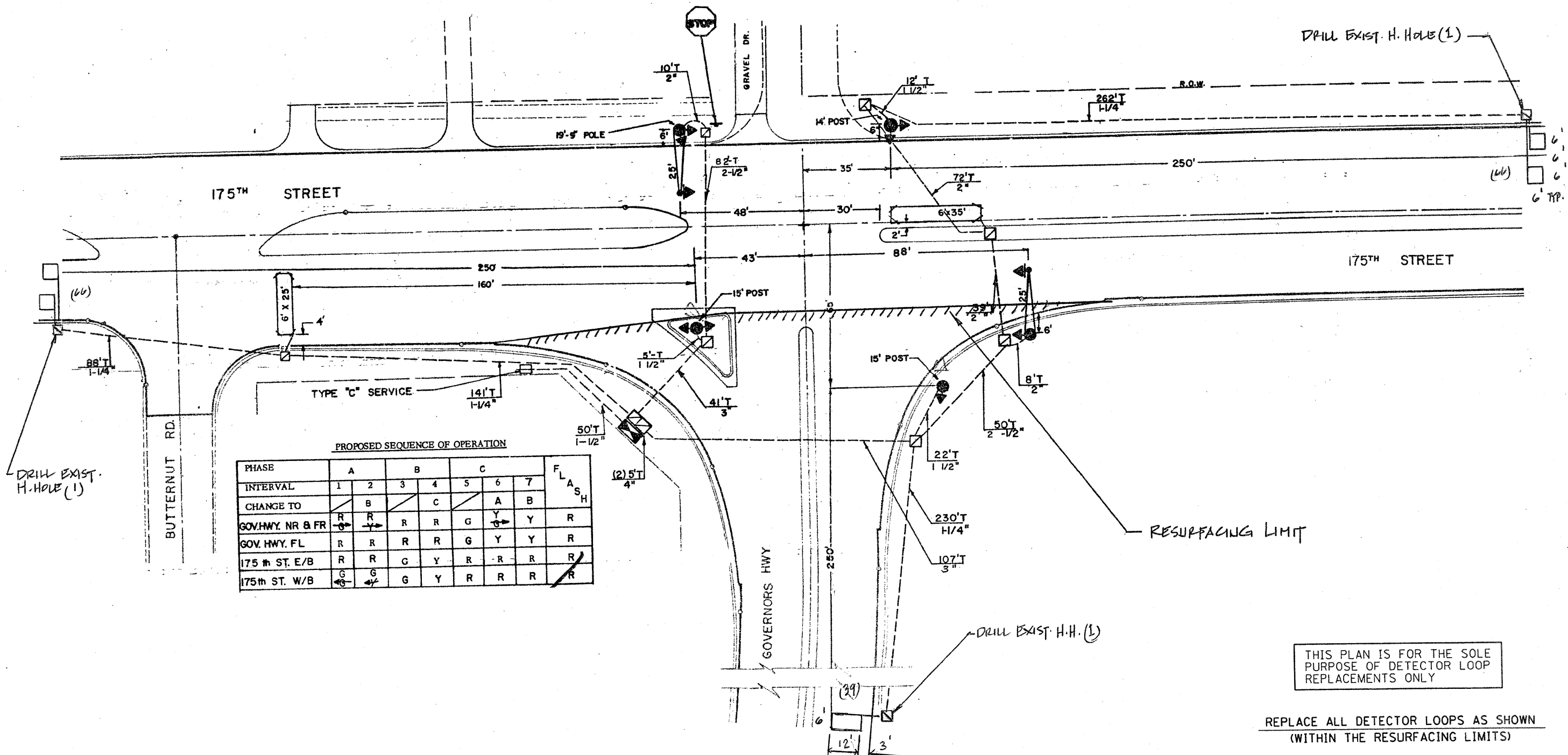
(• When Quantities Below Are Shown)

CODE	QUANTITY	UNIT	ITEM
81900200	0	FOOT	Trench and Backfill for Electrical Work
85000200	1	EACH	Maintenance of Existing Traffic Signal Installation
87301305	1230	FOOT	Electric Cable in Conduit, Lead-In No. 14 1-Pair
87900200	3	EACH	Drill Existing Handhole
88500100	3	EACH	Inductive Loop Detector
88600100	132	FOOT	Detector Loop, Type I
89502300	1100	FOOT	Remove Electric Cable from Conduit

• All Magnetic Detectors will be replaced at a signalized intersection; even if only one magnetic detector is within the resurfacing limits. The "Pay Items" shown above will be paid as per the loop replacement specifications direct for "Magnetic Detectors" during roadway resurfacing projects.

TRAFFIC SIGNAL LEGEND

	PROPOSED	EXISTING
DETECTOR LOOP		
SIGNAL HEAD		
G.S. CONDUIT IN TRENCH OR PUSHED		
SIGNAL HEAD WITH BACKPLATE		
RACEWAY FOR MAGNETIC DETECTOR, TYPE I OR II		
VEHICLE DETECTOR, NON-COMPENSATED MAGNETIC TYPE		



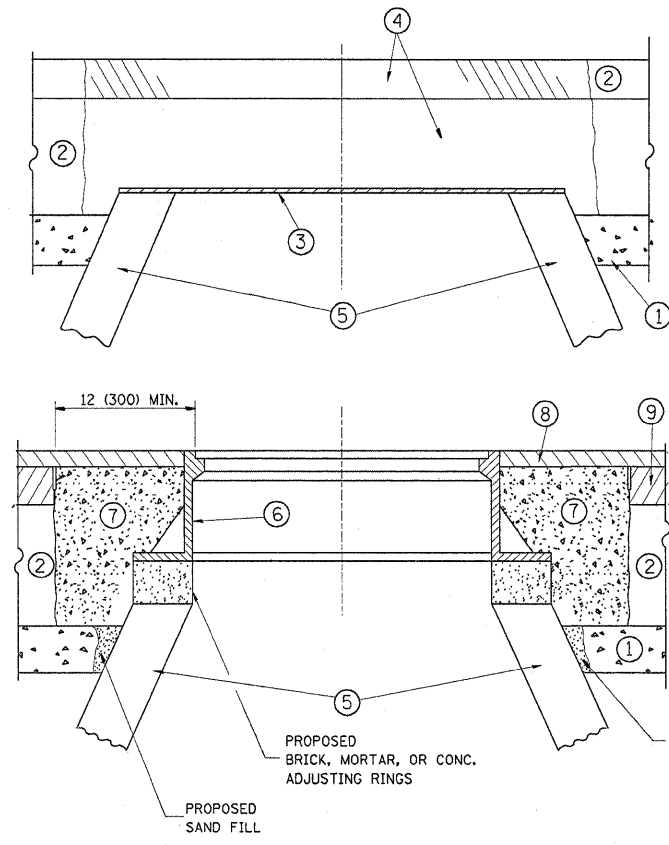
PROPOSED SEQUENCE OF OPERATION

PHASE	A	B	C	FLASH
INTERVAL	1	2	3	4
CHANGE TO		B	C	A B
GOV. HWY. NR & FR	R	R	R	G Y R
GOV. HWY. FL	R	R	R	G Y Y R
175th ST. E/B	R	R	G Y	R - R R
175th ST. W/B	G	G	G Y	R R R R

THIS PLAN IS FOR THE SOLE PURPOSE OF DETECTOR LOOP REPLACEMENTS ONLY

REPLACE ALL DETECTOR LOOPS AS SHOWN (WITHIN THE RESURFACING LIMITS)

CODE	QUANTITY	UNIT	ITEM
86600600	39	FOOT	DETECTOR LOOP, REPLACEMENT



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 1/2 (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 SI 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 SI 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.

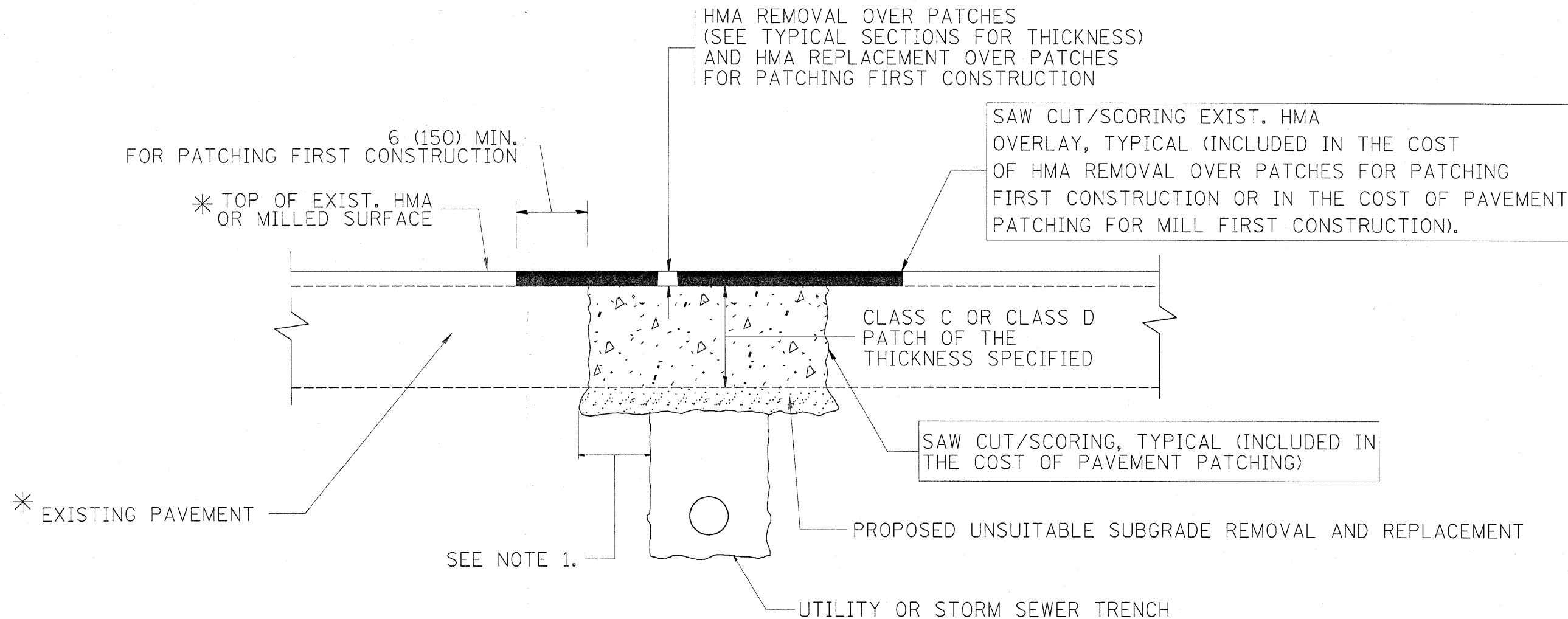
BASIS OF PAYMENT: THIS WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER EACH FOR "FRAMES AND LIDS TO BE ADJUSTED, SPECIAL"

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

FILE NAME =	USER NAME = aqee1ff	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.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
c:\pw_work\PWIDOT\AQEEELFF\00145733\Dis	Std.dgn	DRAWN -	REVISED - A. ABBAS 03-21-97		2820	44RS-6	COOK	34	24		
	PLOT SCALE = 50.0000' / IN.	CHECKED -	REVISED - R. WIEDEMAN 05-14-04		SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.		BD600-03 (BD-8)		CONTRACT NO. 60H97		
	PLOT DATE = 8/12/2009	DATE - 10-25-94	REVISED - R. BORO 01-01-07		FED. ROAD DIST. NO. 1 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 =	USER NAME = aqee1ff	DESIGNED - R. SHAH	REVISED - A. ABBAS 04-27-98	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PAVEMENT PATCHING FOR HMA SURFACED PAVEMENT			F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
ct:\pw\work\PW1001\AQEELFF\0145733\Dis	Std.dgn	DRAWN -	REVISED - R. BORO 01-01-07		2820	44RS-6	COOK	34	25			
	PLOT SCALE = 50.0000 ' / IN.	CHECKED -	REVISED - R. BORO 09-04-07		BD400-04 (BD-22)			CONTRACT NO. 60H97				
	PLOT DATE = 8/12/2009	DATE - 10-25-94	REVISED - K. ENG 10-27-08		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA. TO STA.	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)
1/4" (5) **

18" (450) MAX.

EXISTING SIDEWALK, DRIVEWAY, MEDIAN SURFACE, SOD OR GROUND.

PROPOSED SIDEWALK, DRIVEWAY PAVEMENT, MEDIAN SURFACE OR SODDING SALT TOLERANT WITH 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.)

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 USABLE 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".

* 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.

SODDING, SALT TOLERANT AND TOP SOIL, FURNISH AND PLACE 4" WILL BE PAID FOR SEPARATELY.

② FERTILIZER FOR THE PLACEMENT OF THE SOD IS NOT REQUIRED

③ CURB OR CURB AND GUTTER REPLACEMENT SHALL MATCH THE SHAPE OF THE EXISTING CURB OR CURB AND GUTTER UNLESS OTHERWISE SPECIFIED.

④ FOR CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT ADJACENT TO FLEXIBLE PAVEMENT DELETE EPOXY COATED TIE BARS.

⑤ 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.

⑥ 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.

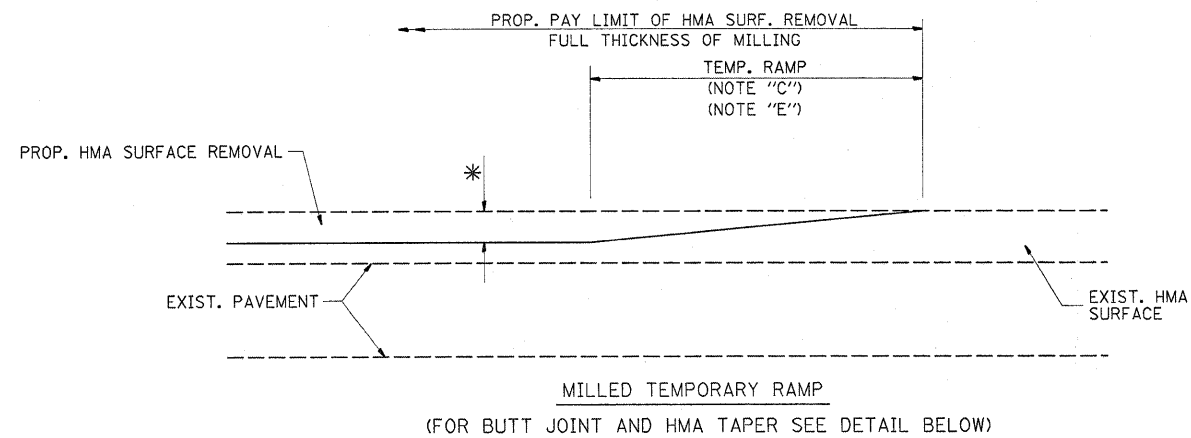
⑦ THE REMOVAL AND REPLACEMENT OF THE EXISTING CURB OR CURB AND GUTTER SHALL BE DONE IN ACCORDANCE WITH THE APPLICABLE PORTIONS OF SECTION 440 AND 606 OF THE STANDARD SPECIFICATIONS.

⑧ 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.

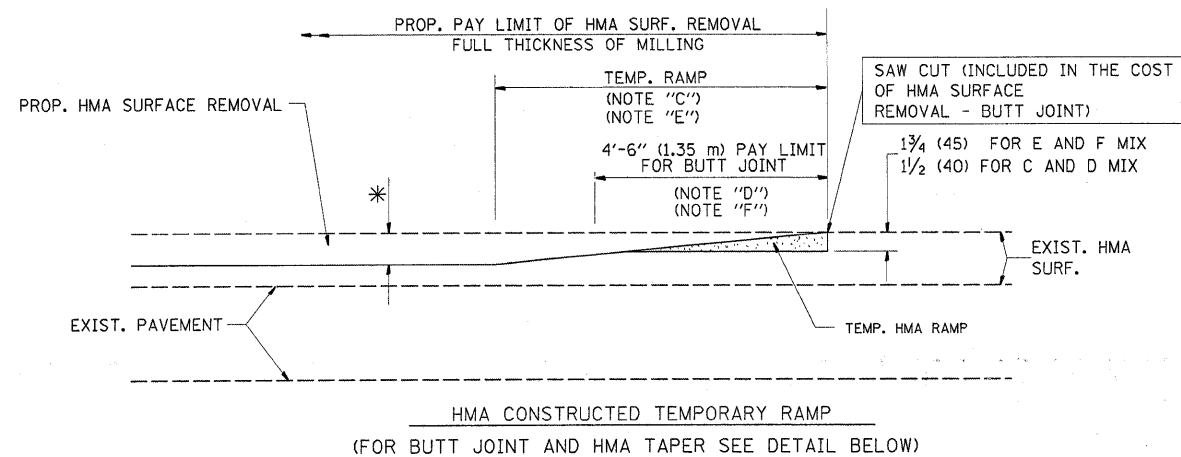
CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT

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

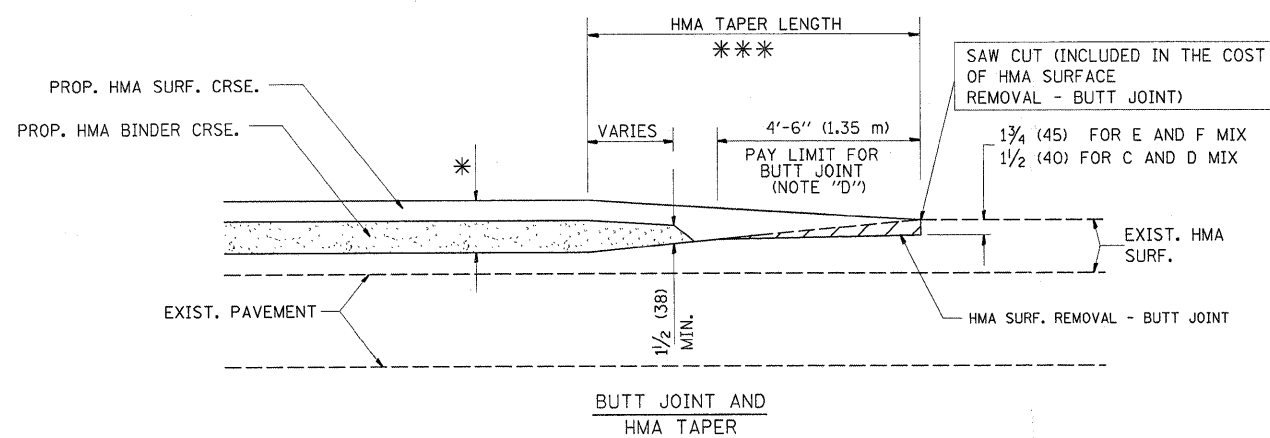
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es:\pw\work\PIWIDOT\AQUEELFF\d8145733\Di:Std.dgn	DRAWN -	REVISED - A. ABBAS 03-21-97	2820			44RS-6	COOK	34	26	
PLOT SCALE = 50,0000 ' / IN.	CHECKED -	REVISED - M. GOMEZ 01-22-01	BD600-06 (BD-24)			CONTRACT NO. 60H97				
PLOT DATE = 12/16/2009	DATE - 03-11-94	REVISED - R. BORO 12-15-09	SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.		FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT		



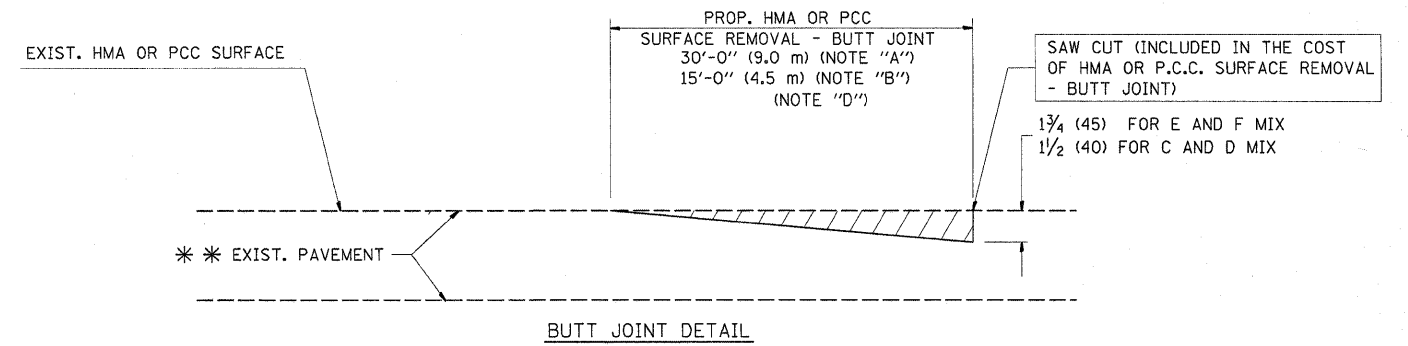
OPTION 1



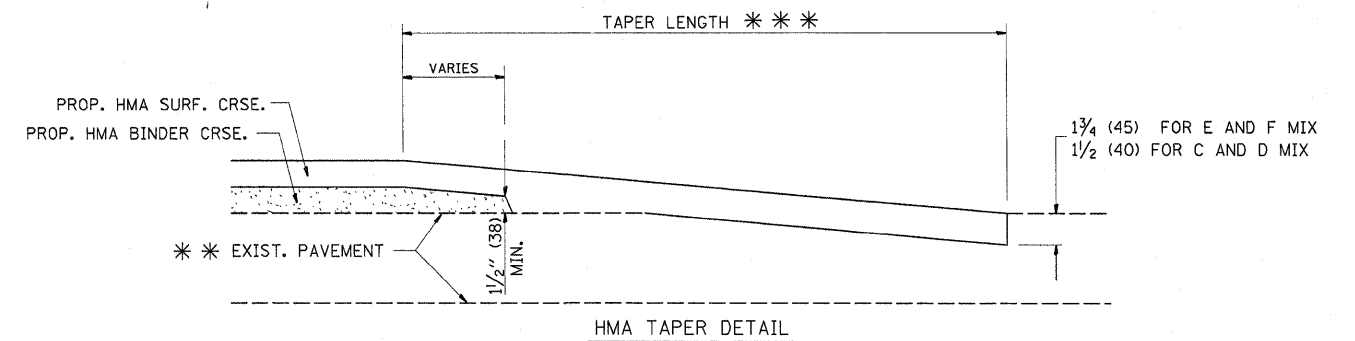
**OPTION 2
TYPICAL TEMPORARY RAMP**



**TYPICAL BUTT JOINT AND HMA TAPER
FOR MILLING AND RESURFACING**



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.

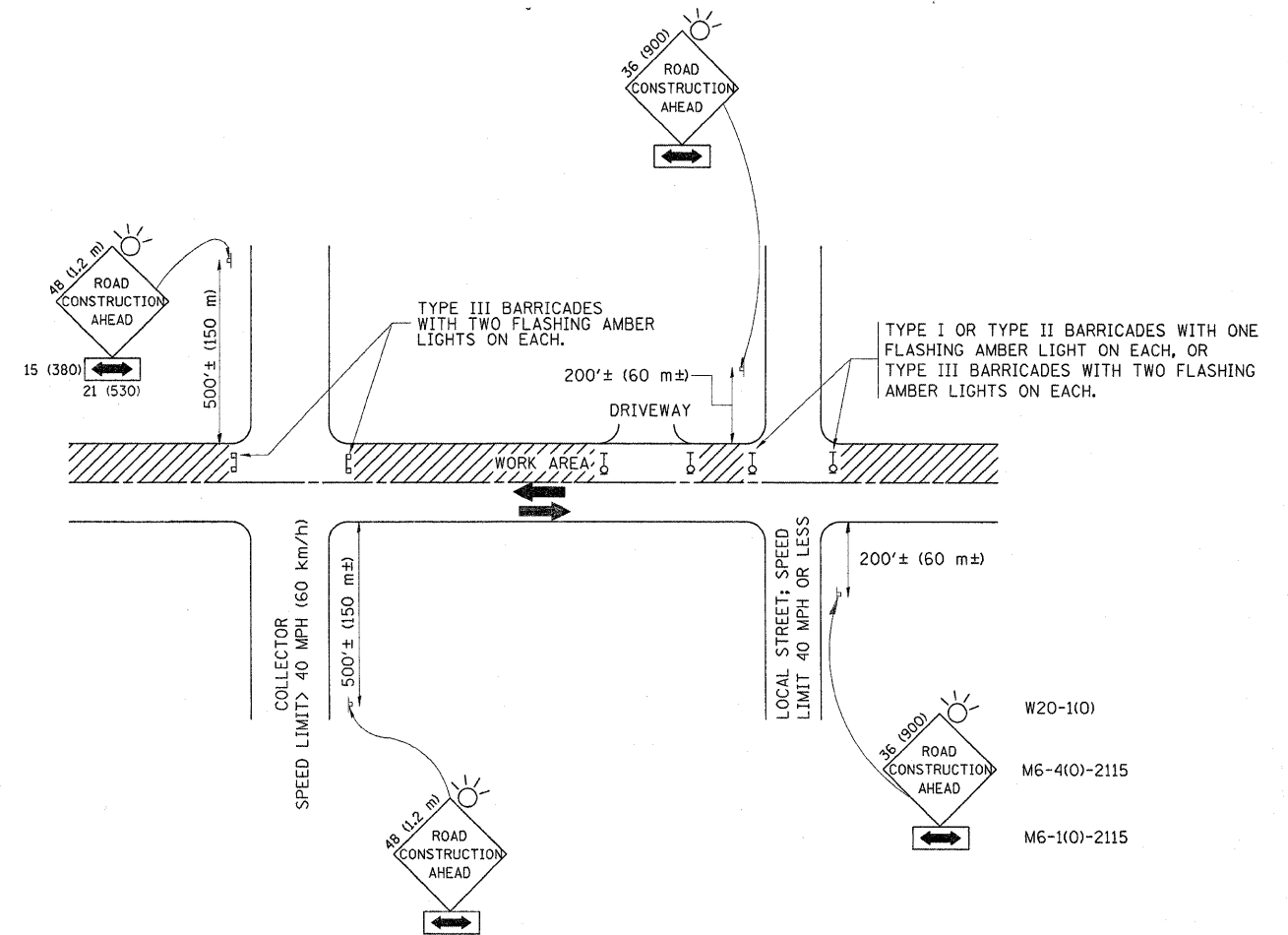
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PLOT DATE = 8/12/2009		DATE - 06-13-90	REVISED - R. BORO 01-01-07

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**BUTT JOINT AND
HMA TAPER DETAILS**

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2820	44RS-6	COOK	34	27
BD400-05 BD32			CONTRACT NO. 60H97	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



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

NOTES:

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

1. SIDE ROAD WITH A SPEED LIMIT OF 40 MPH (60 km/h) OR LESS AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
 - a) ONE ROAD CONSTRUCTION AHEAD SIGN 36 x 36 (900x900) WITH A FLASHER AND FLAG MOUNTED ON IT APPROXIMATELY 200' (60 m) IN ADVANCE OF THE MAIN ROUTE.
 - b) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE I, TYPE II OR TYPE III BARRICADES, 1/3 OF THE CROSS SECTION OF THE CLOSED PORTION.
2. SIDE ROAD WITH A SPEED LIMIT GREATER THAN 40 MPH (60 km/h) AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
 - a) ONE ROAD CONSTRUCTION AHEAD SIGN 48 x 48 (1.2 m x 1.2 m) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 500' (150 m) IN ADVANCE OF THE MAIN ROUTE.
 - b) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE III BARRICADES, 1/2 OF THE CROSS SECTION OF THE CLOSED PORTION.
3. WHEN THE SIDE ROAD LIES BETWEEN THE BEGINNING OF THE MAINLINE SIGNING AND THE WORK ZONE, A SINGLE HEADED ARROW (M6-1) SHALL BE USED IN LIEU OF THE DOUBLE HEADED ARROW (M6-4).

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

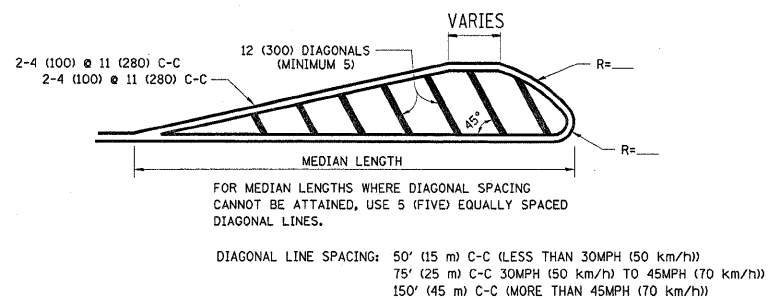
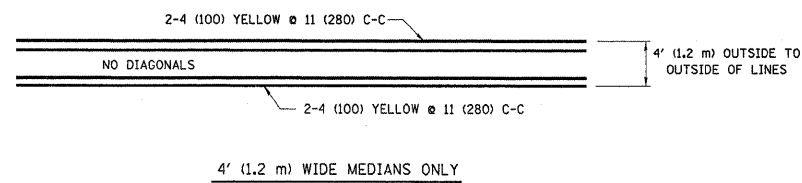
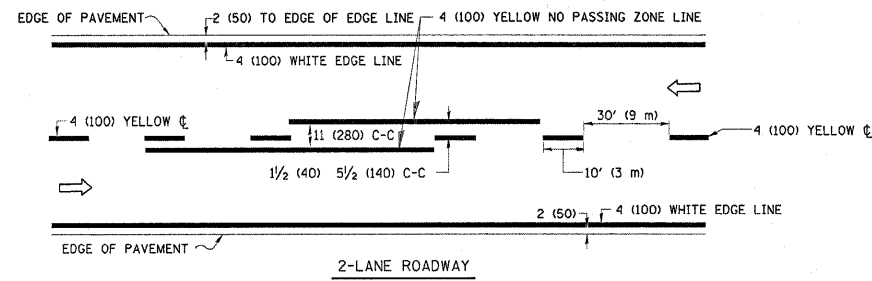
- USE APPLICABLE PORTIONS OF THE TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES (STD. 701501, STD. 701606 OR THE APPROPRIATE STANDARD). THE SPACING OF SIGNS AND BARRICADES SHALL BE ADJUSTED FOR FIELD CONDITIONS AS DIRECTED BY THE ENGINEER. THE DIRECTIONAL ARROW SHALL BE COVERED OR REMOVED WHEN NO LONGER CONSISTENT WITH THE SIDE ROAD LANE CLOSURE.
- C. ADVANCE WARNING SIGNS ARE TO BE OMITTED ON DRIVEWAY UNLESS OTHERWISE NOTED.
- D. THE TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS SHALL BE INCIDENTAL TO THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

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

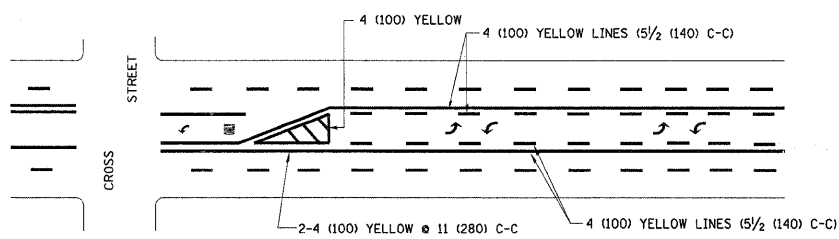
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	PLOT SCALE = 50.0000' / IN.	CHECKED -	REVISED - A. HOUSEH 10-15-96
	PLOT DATE = 9/12/2009	DATE - 06-89	REVISED - T. RAMMACHER 01-06-00

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

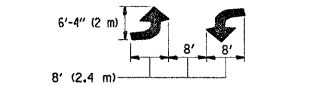
TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS		F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	2820	44RS-6	COOK	34	28
STA.	TO STA.	TC-10		CONTRACT NO. 60H97		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT						



MEDIANS OVER 4' (1.2 m) WIDE

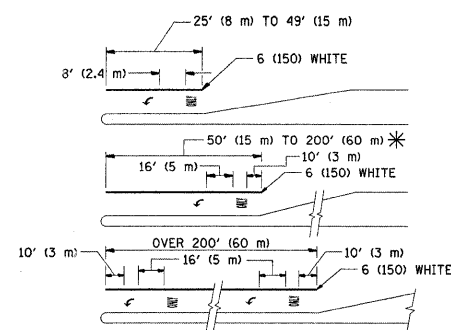


A MINIMUM OF TWO PAIRS OF TURN ARROWS SHALL BE USED, WHITE IN COLOR. ADDITIONAL PAIRS SHALL BE PLACED AT 200' (60 m) TO 300' (90 m) INTERVALS.



MEDIAN WITH TWO-WAY LEFT TURN LANE

TYPICAL PAINTED MEDIAN MARKING

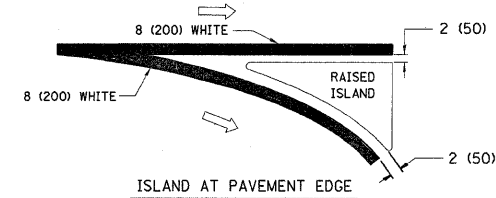
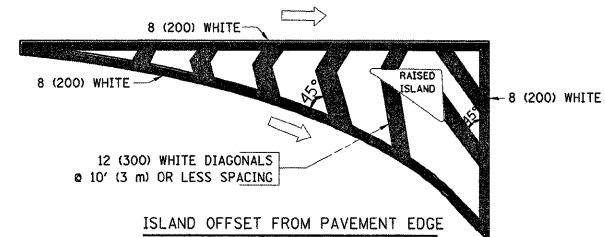


FULL SIZE LETTERS 8' (2.4 m) AND ARROWS SHALL BE USED. AREA = 15.6 SQ. FT. (1.5 m²) ONLY AREA = 20.8 SQ. FT. (1.9 m²)

* 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

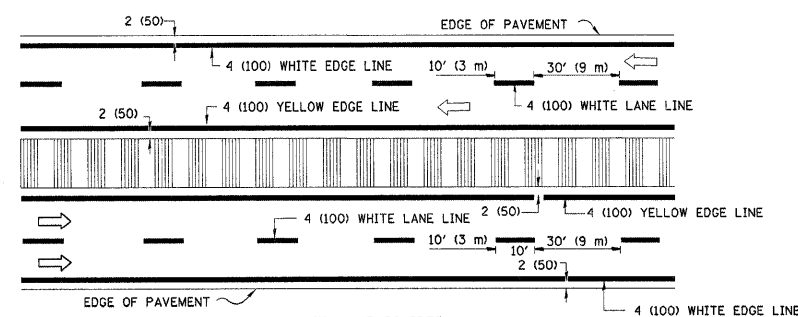
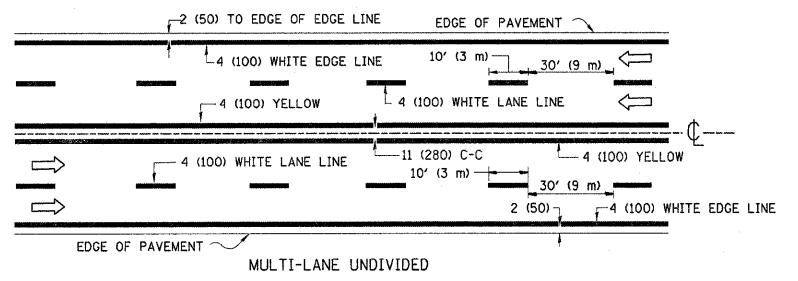


TYPICAL ISLAND MARKING

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	5/2 (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.
GORE MARKING AND CHANNELIZING LINES	8 (200) WITH 12 (300) DIAGONALS @ 45°	SOLID	WHITE	DIAGONALS: 15' (4.5 m) C-C (LESS THAN 30MPH (50 km/h)) 20' (6 m) C-C 30MPH (50 km/h) TO 45MPH (70 km/h) 30' (9 m) C-C (OVER 45MPH (70 km/h))
RAILROAD CROSSING	24 (600) TRANSVERSE LINES; "RR" IS 6' (1.8 m) LETTERS; 16 (400) LINE FOR "X"	SOLID	WHITE	SEE STATE STANDARD 780001 AREA OF: "R"=3.6 SQ. FT. (0.33 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))

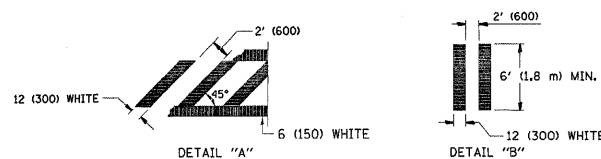
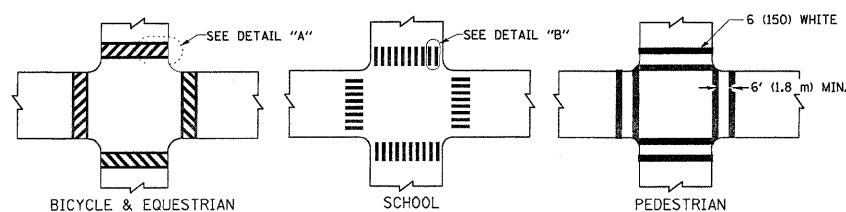
FOR FURTHER DETAILS ON PAVEMENT MARKING REFER TO STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND STATE STANDARD 780001.

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



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

TYPICAL LANE AND EDGE LINE MARKING



TYPICAL CROSSWALK MARKING

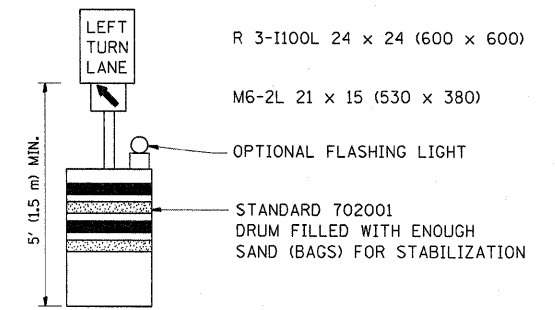
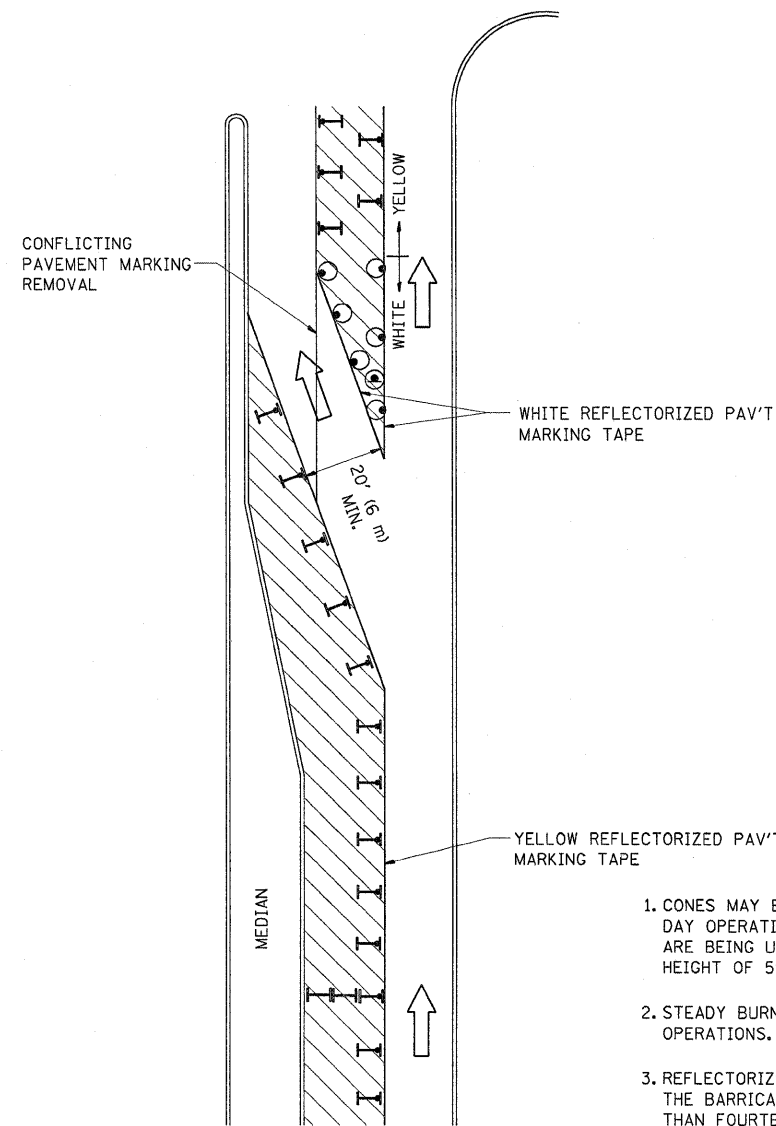
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	PLOT DATE = 8/12/2009	DATE - 03-19-90	REVISED - T. RAMMACHER 01-06-00

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE
TYPICAL PAVEMENT MARKINGS

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







F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2820	44RS-6	COOK	34	30
TC-13		CONTRACT NO. 60H97		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



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

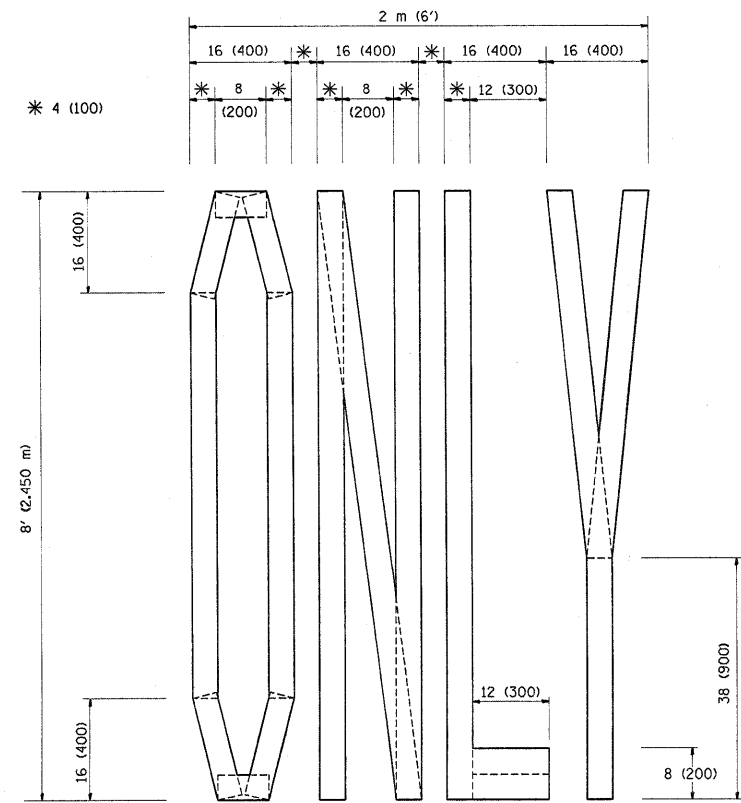
-  WORK AREA
-  LANE OPEN TO TRAFFIC
-  TYPE I OR II BARRICADE WITH STEADY BURN LIGHT
-  DRUM WITH STEADY BURN LIGHT
-  DRUM WITH SIGN (WITH OPTIONAL FLASHING LIGHT) SEE DETAIL
-  TYPE I OR II CHECK BARRICADE WITH FLASHING LIGHT

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

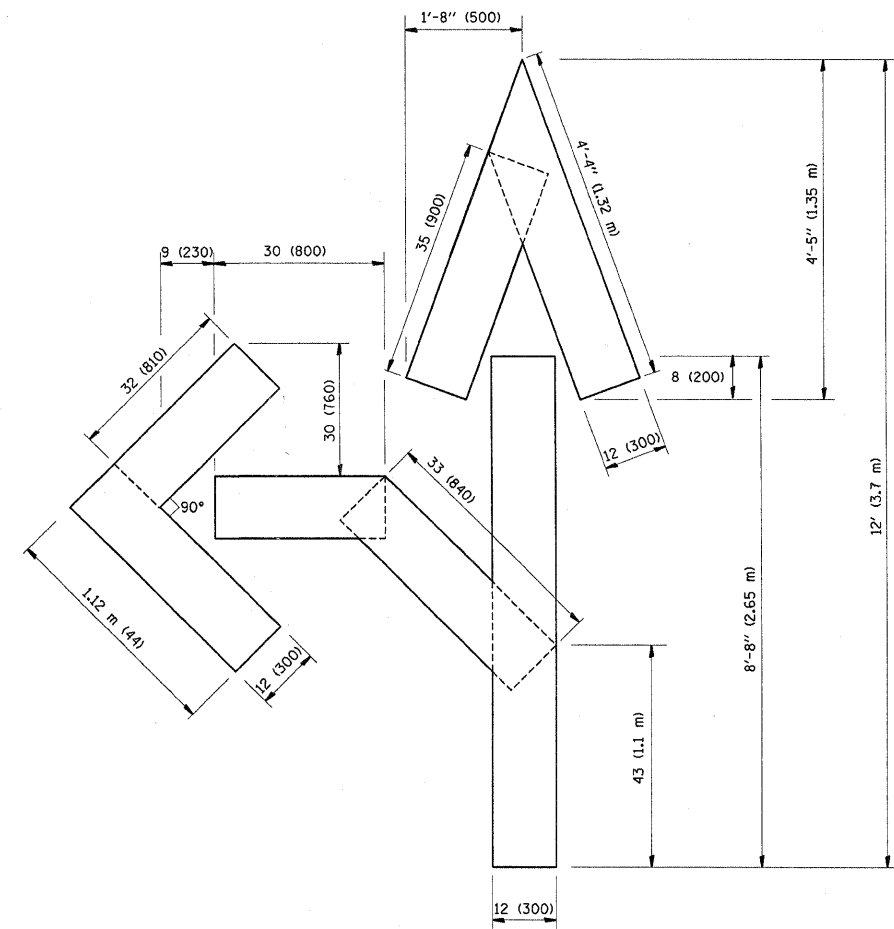
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

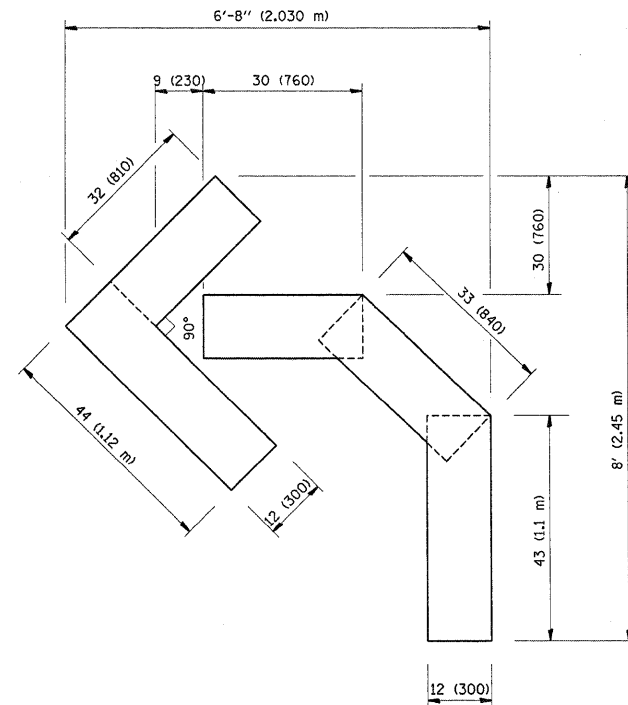
TRAFFIC CONTROL AND PROTECTION AT TURN BAYS (TO REMAIN OPEN TO TRAFFIC)		F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		2820	44RS-6	COOK	34	31
SCALE: NONE		SHEET NO. 1 OF 1 SHEETS		STA. TO STA.		FED. ROAD DIST. NO. 1 [ILLINOIS] FED. AID PROJECT



QUANTITY
 4 (100) LINE = 64.1 ft. (19.7 m)
 21.1 sq. ft. (1.97 sq. m)



QUANTITY
 4 (100) LINE = 82.5 ft. (25.3 m)
 27.5 sq. ft. (2.53 sq. m)



QUANTITY
 4 (100) LINE = 45.5 ft. (13.9 m)
 15.2 sq. ft. (1.39 sq. m)

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

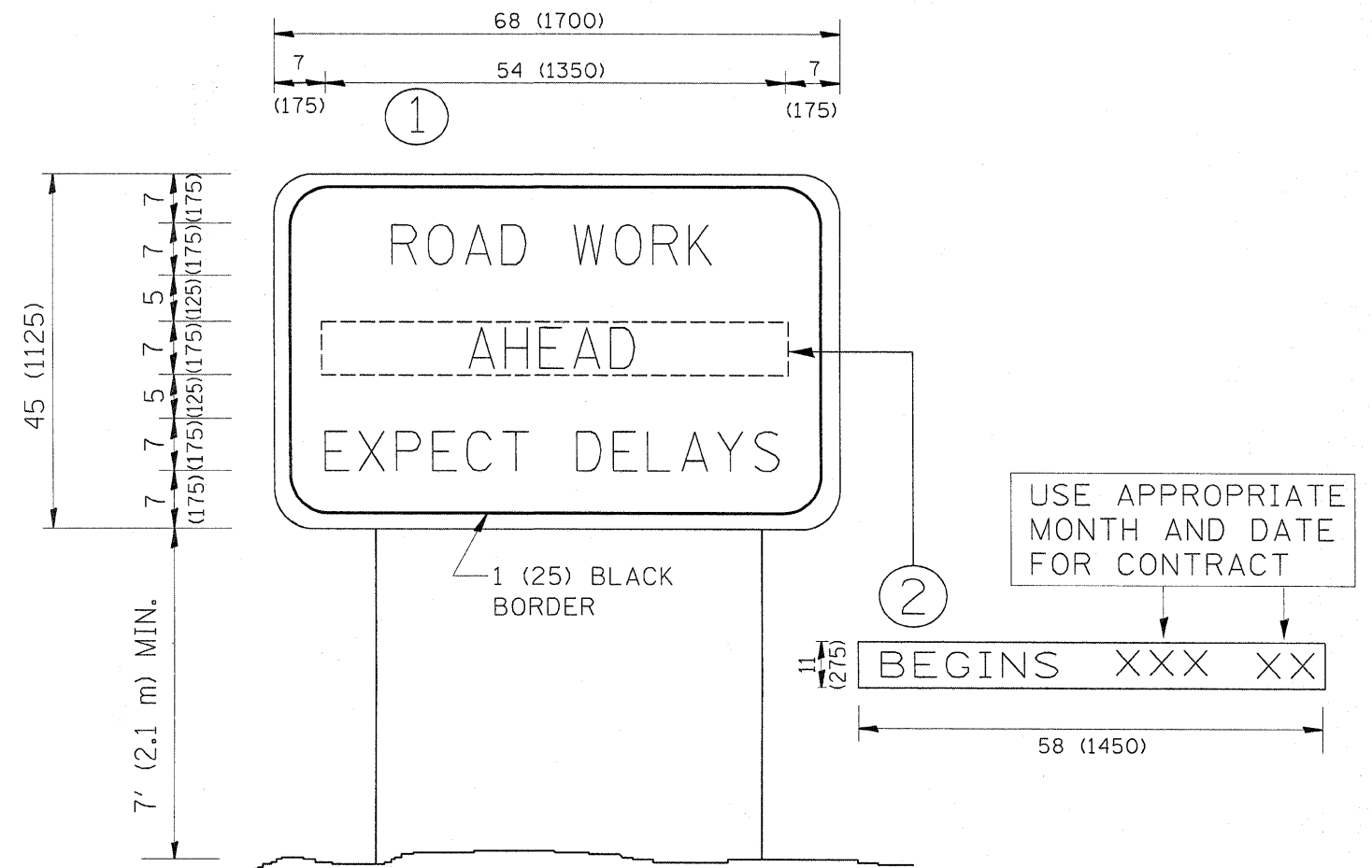
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	PLOT DATE = 8/12/2009	DATE - 09-18-94	REVISED -E. GOMEZ 08-28-00

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**PAVEMENT MARKING LETTERS AND SYMBOLS
 FOR TRAFFIC STAGING**

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2820	44RS-6	COOK	34	32
TC-16			CONTRACT NO. 60H97	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



NOTES:

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

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

FILE NAME =	USER NAME = aquee1ff	DESIGNED -	REVISED - R. MIRS 09-15-97
c:\pw_work\FWIDOT\AQUEELFF\00149733\01s	Std.dgn	DRAWN -	REVISED - R. MIRS 12-11-97
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	PLOT DATE = 8/12/2009	DATE -	REVISED - C. JUCIUS 01-31-07

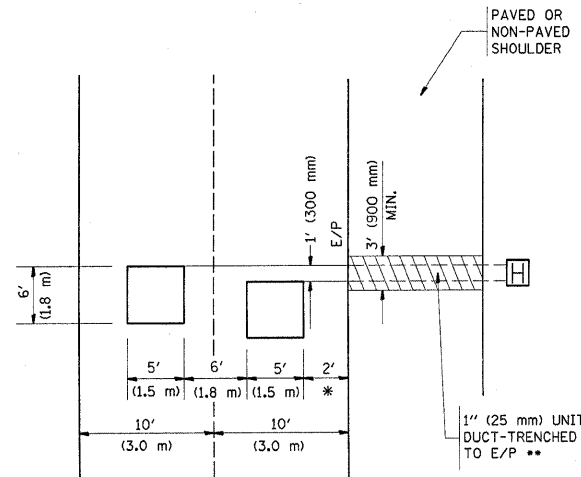
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

ARTERIAL ROAD INFORMATION SIGN			
SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2820	44RS-6	COOK	34	33
TC-22			CONTRACT NO. 60H97	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

LOOPS NEXT TO SHOULDERS

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

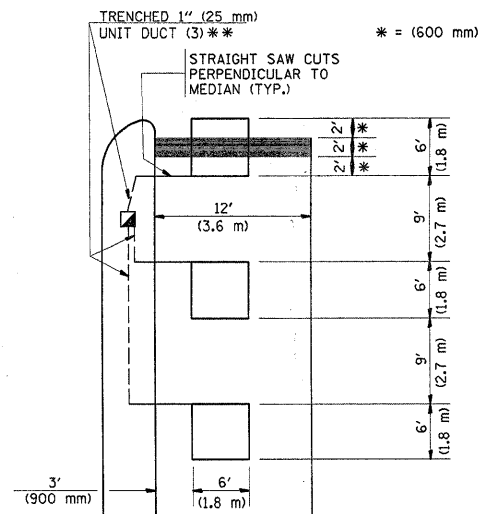


* = (600 mm)

** 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)**

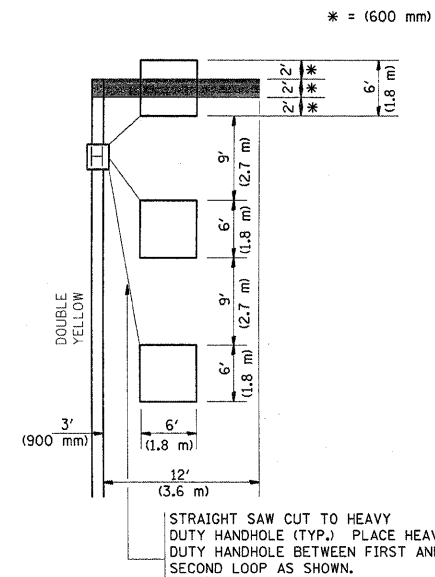
HANDHOLE LOCATION MAY VARY DEPENDING ON GEOMETRICS AND DESIGN OF TRAFFIC SIGNALS. HEAVY-DUTY HANDHOLES TO BE USED WHEN THE MEDIAN IS MOUNTABLE. REFER TO STANDARD 814001 TO ENSURE THAT HANDHOLE FITS IN MEDIAN.



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

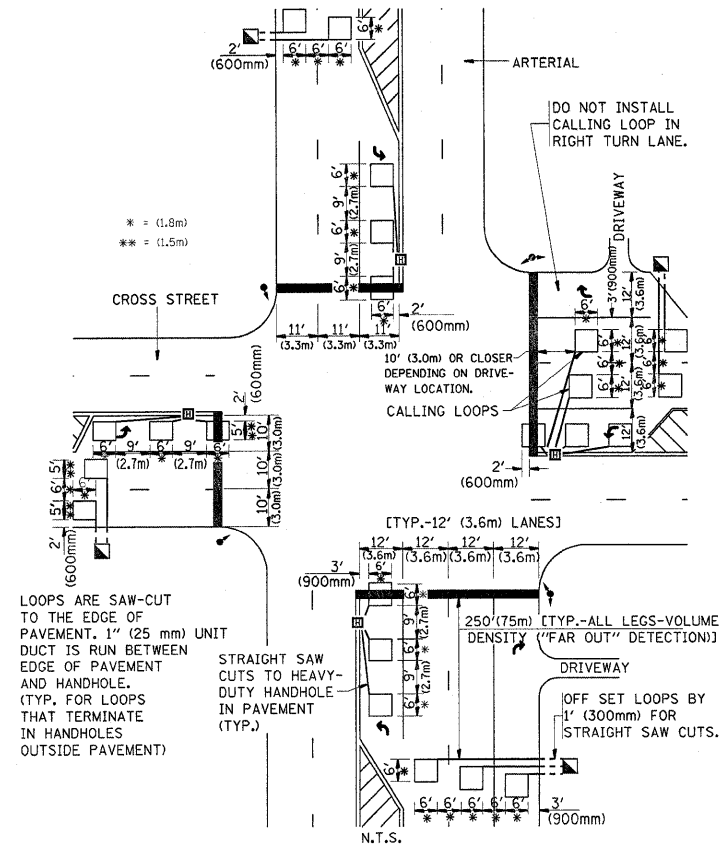
NOTE: DUAL LEFT TURNS NOT SHOWN REFER TO PLAN SHEET FOR DETECTOR LOOP REPLACEMENT

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



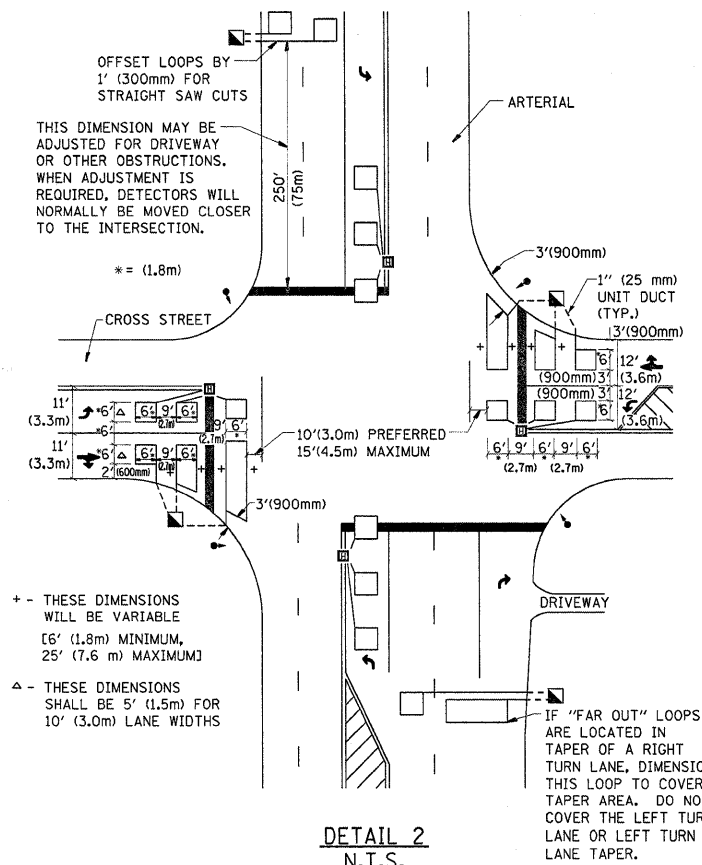
NOTE: DUAL LEFT TURNS NOT SHOWN REFER TO PLAN SHEET FOR DETECTOR LOOP REPLACEMENT

**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 SEPARATLY. 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 =	USER NAME = aqeel1ff	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DISTRICT 1 - DETECTOR LOOP INSTALLATION DETAILS FOR ROADWAY RESURFACING	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
cd:\pw\work\PWIDOT\AQEELFF\d2145733\01s	Std.dgn	DRAWN -	REVISED -			2820	44RS-6	COOK	34	34
PLOT SCALE = 50.0000' / IN.		CHECKED - R.K.F.	REVISED -			TS-07		CONTRACT NO. 60H97		
PLOT DATE = 8/12/2009		DATE -	REVISED -			SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA. TO STA.	FED. ROAD DIST. NO. 1 [ILLINOIS] FED. AID PROJECT	