

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
345	3058 (A,B,C) RS-1	COOK	51	1
FED. ROAD DIST. NO.	ILLINOIS	CONTRACT NO. 60C52		

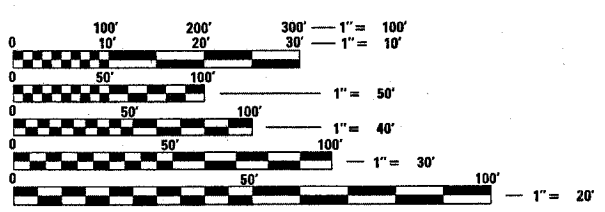
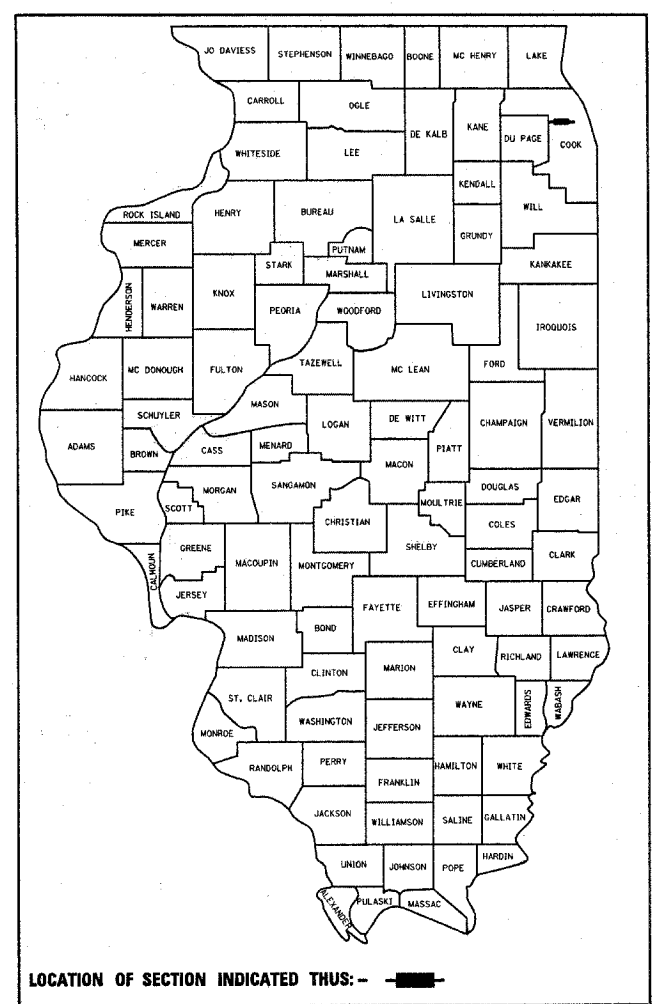
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

**PROPOSED
HIGHWAY PLANS**

F.A.P. ROUTE 345: ILL 19 (IRVING PARK RD.)
W. OF O'HARE CARGO RD. TO DES PLAINES RIVER
SECTION: 3058 (A, B, C) RS-1
RESURFACING (MAINTENANCE)
COOK COUNTY
C-91-238-07

FOR INDEX OF SHEETS, SEE SHEET NO. 2

PROJECT LOCATED IN THE VILLAGES OF BENSENVILLE & SCHILLER 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

PROJECT ENGINEER: JENPAI CHANG (847) 705-4432
PROJECT MANAGER: KEN ENG

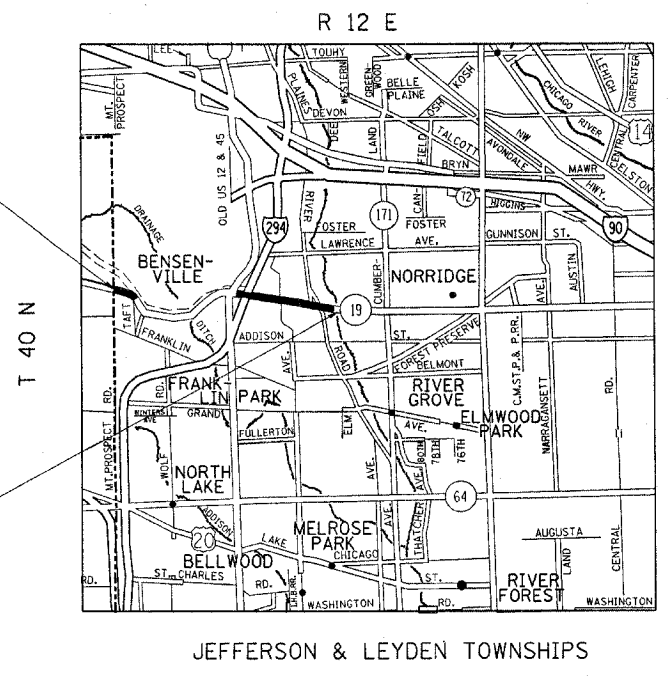
CONTRACT NO. 60C52

IMPROVEMENT BEGINS:
STATION 20+12

OMISSION:
STA. 45+87 TO STA. 138+88

OMISSION:
STA. 187+03 TO STA. 189+53

IMPROVEMENT ENDS:
STATION 217+42



TRAFFIC DATA
ADT = 38,200
SPEED LIMIT = 30-55 MPH

GROSS LENGTH OF IMPROVEMENT = 19,730 FT. (3.74 MI.)
NET LENGTH OF IMPROVEMENT = 10,197 FT. (1.93 MI.)

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

SUBMITTED Nov. 6 2007

Diane O'Keefe
DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER

December 7, 2007
Eric E. Haral
ENGINEER OF DESIGN AND ENVIRONMENT

December 7, 2007
Christine M. Reed
DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

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

F.A.P. SHEET	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
345	3058A,B,CHRS-1	COOK	51	2
FED. ROAD DIST. NO. 1	ILLINOIS	HIGHWAY PROJECT		

CONTRACT # 60C52

INDEX OF SHEETS

SHEET NO.	DESCRIPTION
1	TITLE SHEET
2	INDEX OF SHEETS, STATE STANDARDS AND GENERAL NOTES
3-4	SUMMARY OF QUANTITIES
5-17	TYPICAL SECTIONS
18-33	ROADWAY AND PAVEMENT MARKING PLANS
34-39	DETECTOR LOOP REPLACEMENT PLANS
40	DETAILS FOR FRAME AND LIDS ADJUSTMENT WITH MILLING
41	PAVEMENT PATCHING FOR HMA SURFACED PAVEMENT
42	CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT
43	BUTT JOINT AND HMA TAPER
44	HMA TAPER AT EDGE OF P.C.C. PAVEMENT
45	TRAFFIC CONTROL AND PROTECTION FOR SIDEROADS, INTERSECTIONS AND DRIVEWAYS
46	TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT)
47	DISTRICT ONE TYPICAL PAVEMENT MARKINGS
48	TRAFFIC CONTROL AND PROTECTIONS AT TURN BAYS (TO REMAIN OPEN TO TRAFFIC)
49	PAVEMENT MARKING LETTERS AND SYMBOLS FOR TRAFFIC STAGING
50	ARTERIAL ROAD INFORMATION SIGN
51	DISTRICT ONE DETECTOR LOOP INSTALLATION DETAILS FOR ROADWAY RESURFACING

LIST OF STATE STANDARDS

STANDARD NO.	DESCRIPTION
000001-05	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
442201-03	CLASS C AND D PATCHES
604001-02	FRAMES AND LIDS, TYPE I
606001-03	CONCRETE CURB AND COMBINATION CURB AND GUTTER
701411-04	LANE CLOSURE, MULTILANE, AT ENTRANCE OR EXIT RAMP, FOR SPEEDS > 45 MPH
701601-05	URBAN LANE CLOSURE, MULTILANE 1W OR 2W WITH NONTRAVERSABLE MEDIAN
701606-05	URBAN LANE CLOSURE, MULTILANE, 2W WITH MOUNTABLE MEDIAN
701701-05	URBAN LANE CLOSURE, MULTILANE INTERSECTION
701901	TRAFFIC CONTROL DEVICES

GENERAL NOTES

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

THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES AND THE VILLAGES OF BENSENVILLE AND SCHILLER PARK.

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

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.

THE RESIDENT ENGINEER SHALL CONTACT MR. WALTER CZARNY, AREA TRAFFIC FIELD ENGINEER, AT (773) 715-8419 A MINIMUM OF 72 HOURS PRIOR TO PLACEMENT OF FINAL PAVEMENT MARKINGS.

10 FEET (3 METERS) TRANSITION SHALL BE USED TO MATCH PROPOSED CURB AND GUTTER TO EXISTING CURB AND CUTTERS IN THE FIELD, UNLESS OTHERWISE SHOWN. THE TRANSITION SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE FOR THE PROPOSED ITEMS OF WORK SPECIFIED.

WHEN MILLED PAVEMENT IS OPEN TO TRAFFIC, THE MAXIMUM GRADE DIFFERENTIAL BETWEEN PASSES OF THE MILLING MACHINE SHALL NOT EXCEED 1 1/2 INCHES WHERE THE SPEED LIMIT IS 45 MPH OR LESS, AND 1 INCH WHERE THE SPEED LIMIT IS 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).

THE CONTRACTOR SHALL CONTACT THE DISTRICT ONE ARTERIAL TRAFFIC CONTROL SUPERVISOR AT (847) 705-4470 A MINIMUM OF 72 HOURS PRIOR TO BEGINNING OF WORK.

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
**INDEX OF SHEETS,
LIST OF STATE STANDARDS
AND GENERAL NOTES**

SCALE: VERT. NONE
HORIZ. NONE
DATE _____ DRAWN BY _____
CHECKED BY _____

11/5/2007
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SUMMARY OF QUANTITIES			CONSTRUCTION TYPE CODE					
CODE NO	ITEM	UNIT	TOTAL QUANTITIES	URBAN - 100% STATE 1000-2A				
20201006	GRADING AND SHAPING SHOULDERS	UNIT	6	6				
40600200	BITUMINOUS MATERIALS (PRIME COAT)	TON	34	34				
40600300	AGGREGATE (PRIME COAT)	TON	152	152				
40600400	MIXTURE FOR CRACKS, JOINTS, AND FLANGEWAYS	TON	23	23				
40600895	CONSTRUCTING TEST STRIP	EACH	2	2				
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	522	522				
40601005	HOT-MIX ASPHALT REPLACEMENT OVER PATCHES	TON	596	596				
40603595	POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "F", N90	TON	7629	7629				
42001300	PROTECTIVE COAT	SQ YD	670	670				
44000159	HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/2"	SQ YD	75584	75584				
44001700	COMBINATION CONCRETE CURB AND GUTTER REMOVAL AND REPLACEMENT	FOOT	2000	2000				
44002212	HOT-MIX ASPHALT REMOVAL OVER PATCHES, 3"	SQ YD	4730	4730				
44201761	CLASS D PATCHES, TYPE I, 10 INCH	SQ YD	45	45				
44201765	CLASS D PATCHES, TYPE II, 10 INCH	SQ YD	2350	2350				
44201769	CLASS D PATCHES, TYPE III, 10 INCH	SQ YD	815	815				
44201771	CLASS D PATCHES, TYPE IV, 10 INCH	SQ YD	1520	1520				
48102100	AGGREGATE WEDGE SHOULDER, TYPE B	TON	21	21				
60252800	CATCH BASINS TO BE RECONSTRUCTED	EACH	7	7				
60255500	MANHOLES TO BE ADJUSTED	EACH	27	27				
60260100	INLETS TO BE ADJUSTED	EACH	4	4				
60300105	FRAMES AND GRATES TO BE ADJUSTED	EACH	53	53				
60300310	FRAMES AND LIDS TO BE ADJUSTED (SPECIAL)	EACH	43	43				
60406000	FRAMES AND LIDS, TYPE 1, OPEN LID	EACH	10	10				
60406100	FRAMES AND LIDS, TYPE 1, CLOSED LID	EACH	5	5				
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	6	6				
67100100	MOBILIZATION	L SUM	1	1				
70100420	TRAFFIC CONTROL AND PROTECTION, STANDARD 701411	EACH	1	1				

SUMMARY OF QUANTITIES			CONSTRUCTION TYPE CODE					
CODE NO	ITEM	UNIT	TOTAL QUANTITIES	URBAN 100% STATE 1000-2A				
70102625	TRAFFIC CONTROL AND PROTECTION, STANDARD 701606	L SUM	1	1				
70102630	TRAFFIC CONTROL AND PROTECTION, STANDARD 701601	L SUM	1	1				
70102635	TRAFFIC CONTROL AND PROTECTION, STANDARD 701701	L SUM	1	1				
70300100	SHORT-TERM PAVEMENT MARKING	FOOT	11841	11841				
70300210	TEMPORARY PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	1092	1092				
70300220	TEMPORARY PAVEMENT MARKING - LINE 4"	FOOT	22720	22720				
70300240	TEMPORARY PAVEMENT MARKING - LINE 6"	FOOT	5342	5342				
70300250	TEMPORARY PAVEMENT MARKING - LINE 8"	FOOT	4102	4102				
70300260	TEMPORARY PAVEMENT MARKING - LINE 12"	FOOT	1475	1475				
70300280	TEMPORARY PAVEMENT MARKING - LINE 24"	FOOT	659	659				
70301000	WORK ZONE PAVEMENT MARKING REMOVAL	SQ FT	3947	3947				
* 78000100	THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	1092	1092				
* 78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	22720	22720				
* 78000400	THERMOPLASTIC PAVEMENT MARKING - LINE 6"	FOOT	5342	5342				
* 78000500	THERMOPLASTIC PAVEMENT MARKING - LINE 8"	FOOT	4102	4102				
* 78000600	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	1475	1475				
* 78000650	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	659	659				
* 78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	960	960				
78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	900	900				
* 88600600	DETECTOR LOOP REPLACEMENT	FOOT	1759	1759				
X0322256	TEMPORARY INFORMATION SIGNING	SQ FT	102.8	102.8				
X4067107	POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL-4.75, N50	TON	3270	3270				

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REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
ILL 19
SUMMARY OF QUANTITIES

*SPECIALTY ITEMS

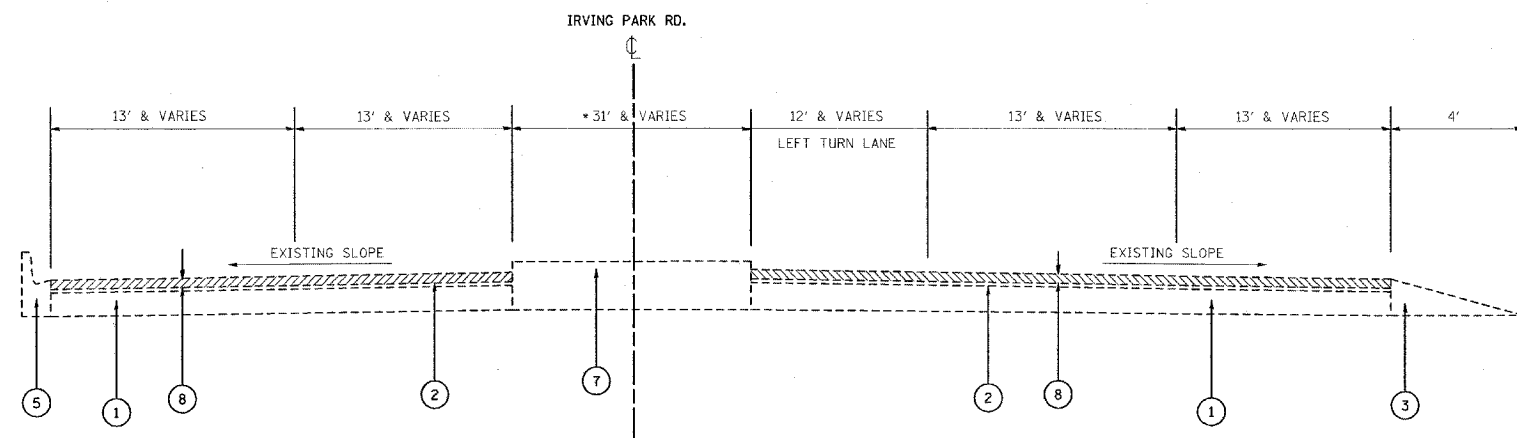
SUMMARY OF QUANTITIES			TOTAL QUANTITIES	CONSTRUCTION TYPE CODE				
CODE NO	ITEM	UNIT		URBAN - 100% STATE 1000-2A				
X4400100	PORTLAND CEMENT CONCRETE SURFACE REMOVAL (VARIABLE DEPTH)	SQ YD	3600	3600				
Z0018500	DRAINAGE STRUCTURES TO BE CLEANED	EACH	60	60				
Z0018600	DRAINAGE STRUCTURES TO BE RECONSTRUCTED	EACH	18	18				
Z0048665	RAILROAD PROTECTIVE LIABILITY INSURANCE	L SUM	1	1				

SUMMARY OF QUANTITIES			TOTAL QUANTITIES	CONSTRUCTION TYPE CODE				
CODE NO	ITEM	UNIT		1000-2A				

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REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION ILL 19 SUMMARY OF QUANTITIES
NAME	DATE	

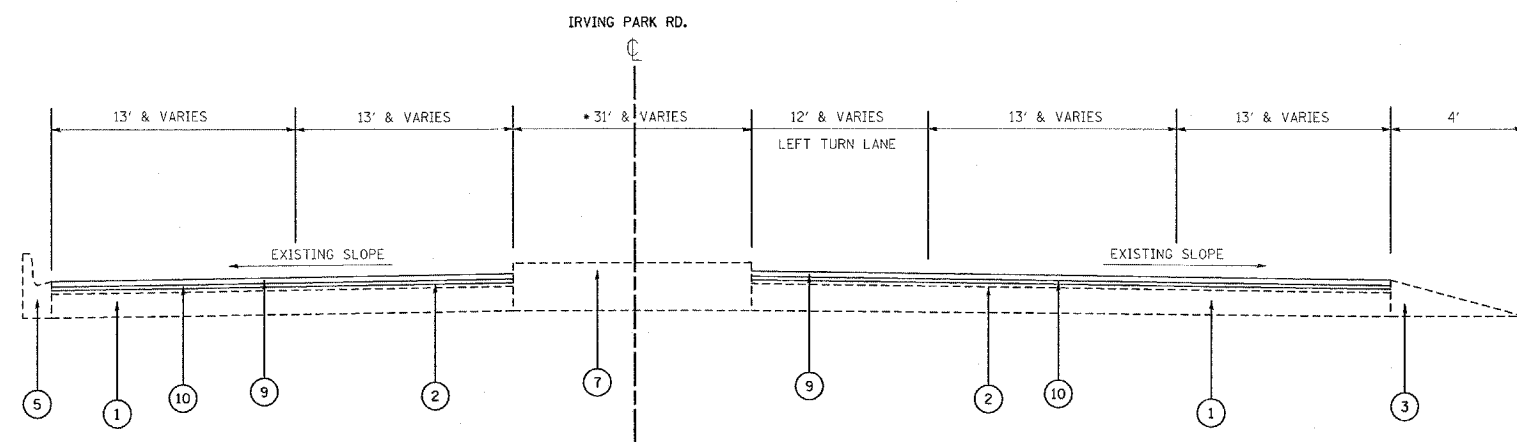
CONTRACT # 60C52



EXISTING TYPICAL CROSS SECTION
 STA. 20+11 TO STA. 25+15
 * STA 22+63 TO STA 25+15

LEGEND

- ① EXISTING P.C.C. PAVEMENT, 10"±
- ② EXISTING HMA SURFACE 3"±
- ③ EXISTING AGGREGATE SHOULDER
- ④ EXISTING HMA SHOULDER
- ⑤ EXISTING COMBINATION CONCRETE CURB AND GUTTER
- ⑥ EXISTING CONCRETE MEDIAN
- ⑦ EXISTING CORRUGATED MEDIAN
- ⑧ PROPOSED HMA SURFACE REMOVAL, 2 1/2"
- ⑨ PROPOSED POLYMERIZED HMA SURFACE COURSE, MIX "F", N90, 1 3/4"
- ⑩ PROPOSED POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL-4.75, N50, 3/4"
- ⑪ PROPOSED AGGREGATE WEDGE SHOULDER, TYPE B



PROPOSED TYPICAL CROSS SECTION
 STA. 20+11 TO STA. 25+15
 * STA 22+63 TO STA 25+15

HOT-MIX ASPHALT MIXTURE REQUIREMENTS

MIXTURE TYPE	AC TYPE	AIR VOIDS (%)
POLYMERIZED LEVELING BINDER (MM), IL-4.75, N50, 3/4"	SBS/SBR 76-28/-22	4% @ 50 GYR
POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "F" N90, 1 3/4", (IL-9.5 MM)	SBS/SBR PG 70-22	4% @ 90 GYR
HMA REPLACEMENT OVER PATCHES, BINDER (IL-19.0 MM)	PG 64-22 *	4% @ 70 GYR
CLASS D PATCHES (HMA BINDER IL-19 MM), 10"±	PG 64-22 *	4% @ 70 GYR

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

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

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 TYPICAL SECTIONS
 ILL 19
 W OF O/HARE CARGO RD. TO
 DES PLAINES RIVER

SCALE: VERT. NONE
 HORIZ.
 DATE 11/5/2007

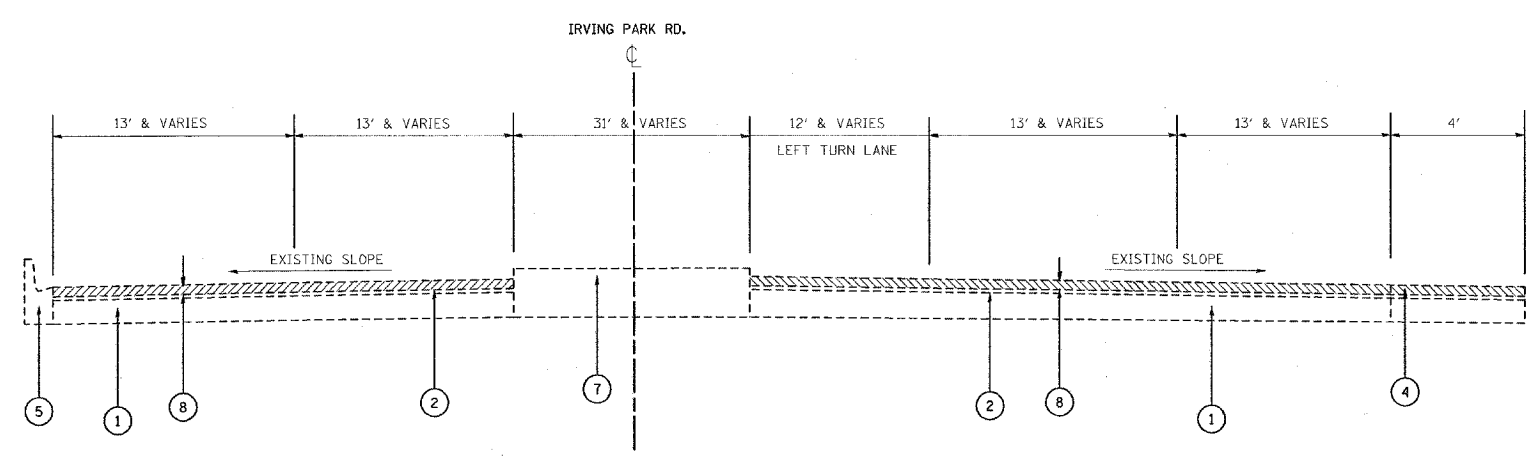
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

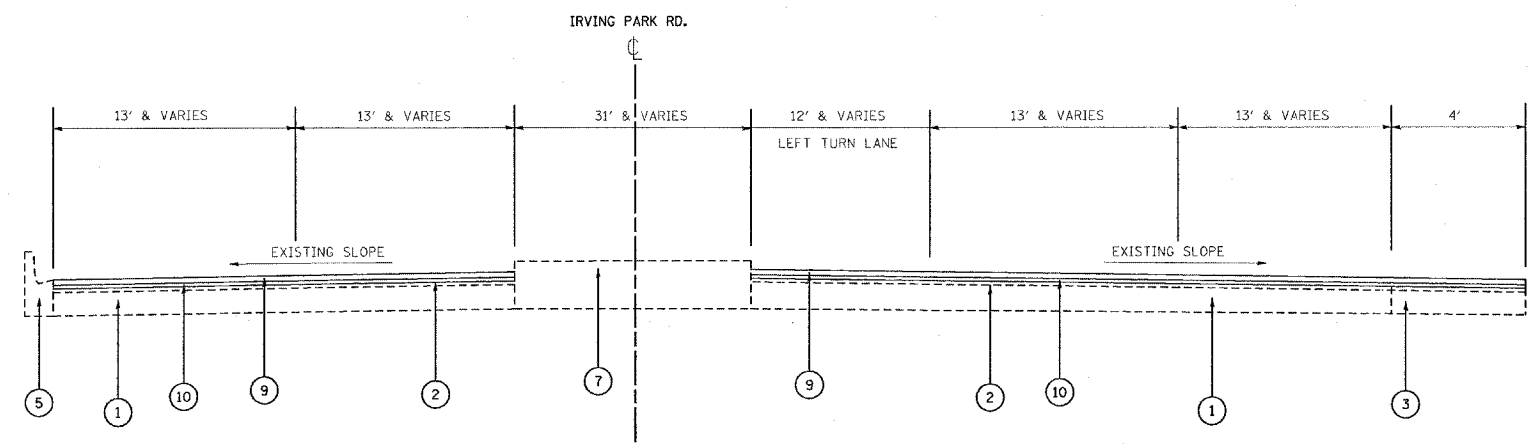
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- ② EXISTING HMA SURFACE 3"±
- ③ EXISTING AGGREGATE SHOULDER
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- ⑨ PROPOSED POLYMERIZED HMA SURFACE COURSE, MIX "F", N90, 1 3/4"
- ⑩ PROPOSED POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL-4.75, N50, 3/4"
- ⑪ PROPOSED AGGREGATE WEDGE SHOULDER, TYPE B



EXISTING TYPICAL CROSS SECTION
STA. 25+15 TO STA. 27+99



PROPOSED TYPICAL CROSS SECTION
STA. 25+15 TO STA. 27+99

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
TYPICAL SECTIONS
 ILL 19
 W OF O/HARE CARGO RD. TO
 DES PLAINES RIVER

SCALE: VERT. NONE
 HORIZ. NONE
 DATE 11/5/2007

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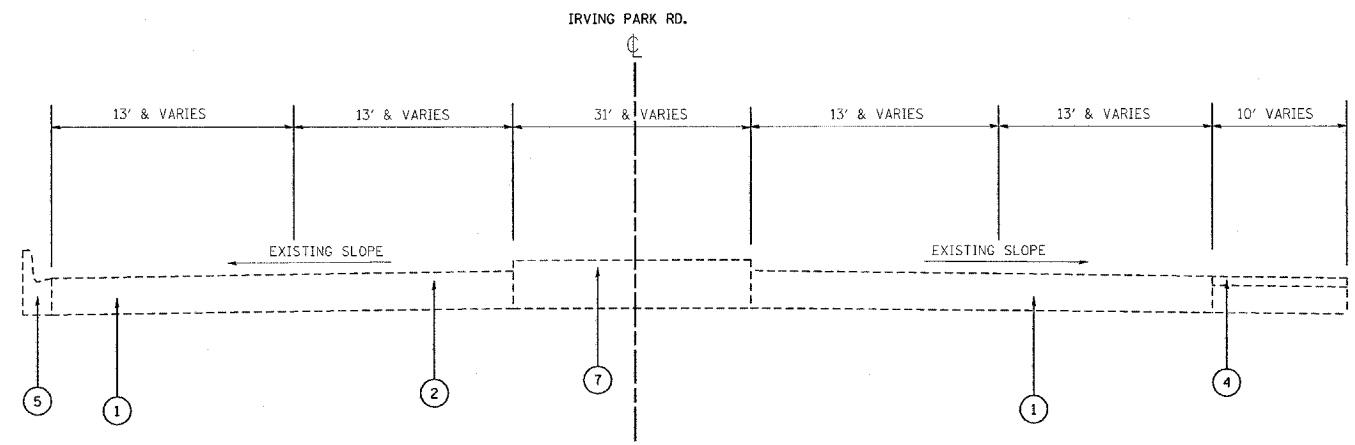
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STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

CONTRACT # 60C52

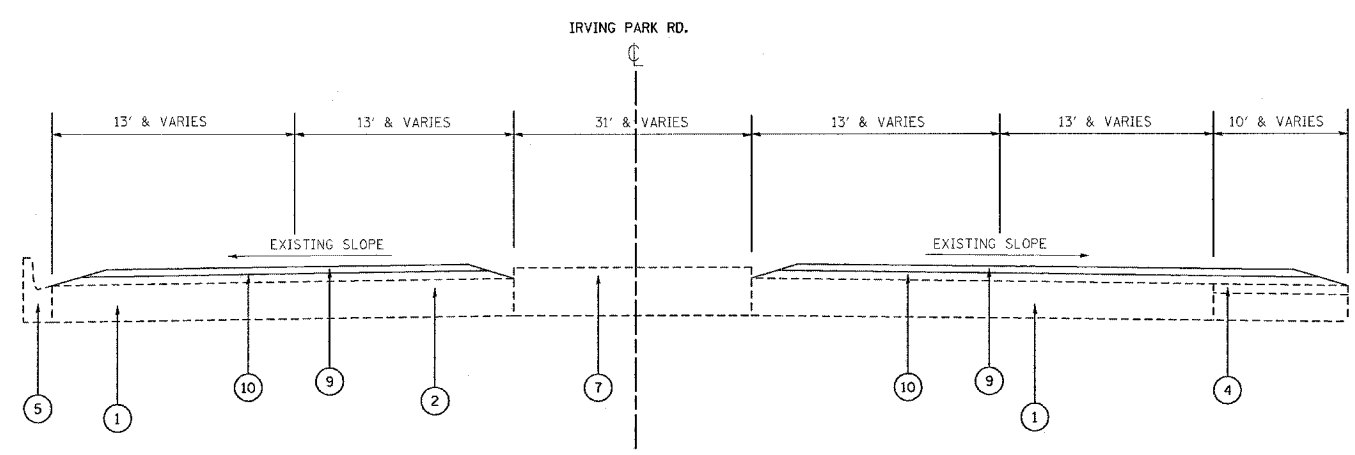
LEGEND

- ① EXISTING P.C.C. PAVEMENT, 10"±
- ② EXISTING HMA SURFACE 3"±
- ③ EXISTING AGGREGATE SHOULDER
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- ⑪ PROPOSED AGGREGATE WEDGE SHOULDER, TYPE B



EXISTING TYPICAL CROSS SECTION

STA. 27+99 TO STA. 29+93
 STA. 32+86 TO STA. 33+44



PROPOSED CROSS SECTION

STA. 27+99 TO STA. 29+93
 STA. 32+86 TO STA. 33+44

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
TYPICAL SECTIONS
 ILL 19
 W OF O/HARE CARGO RD. TO
 DES PLAINES RIVER

SCALE: VERT. NONE
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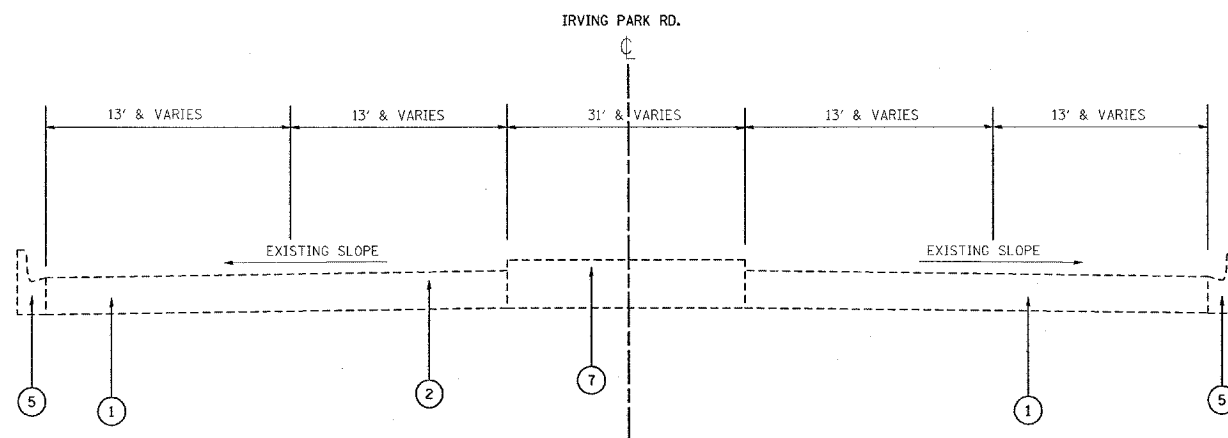
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
345	3058(A,B,C)RS-1	COOK	51	8
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

CONTRACT # 60C52

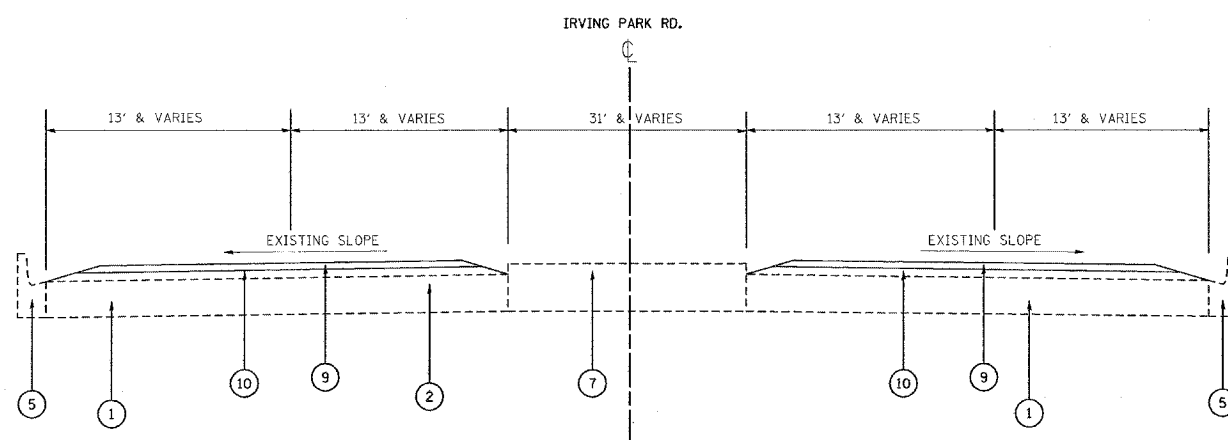
LEGEND

- ① EXISTING P.C.C. PAVEMENT, 10"±
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- ⑨ PROPOSED POLYMERIZED HMA SURFACE COURSE, MIX "F", N90, 1 3/4"
- ⑩ PROPOSED POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL-4.75, N50, 3/4"
- ⑪ PROPOSED AGGREGATE WEDGE SHOULDER, TYPE B



EXISTING TYPICAL CROSS SECTION

STA. 29+93 TO STA. 32+86



PROPOSED TYPICAL CROSS SECTION

STA. 29+93 TO STA. 32+86

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
TYPICAL SECTIONS
ILL 19
W OF O/HARE CARGO RD. TO
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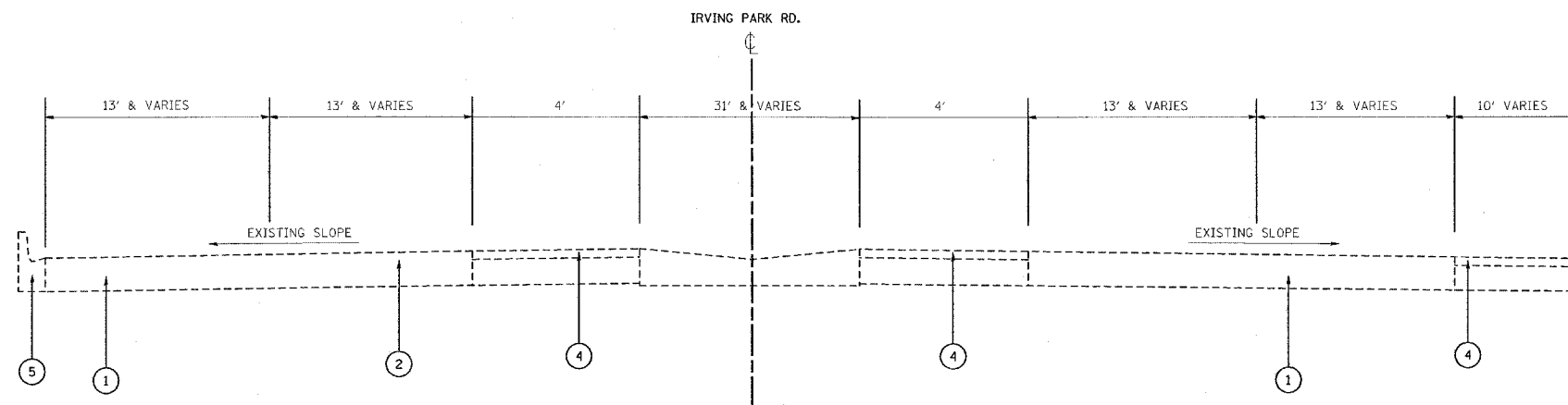
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
345	3058(A,B,C)RS-1	COOK	51	9
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

CONTRACT # 60C52

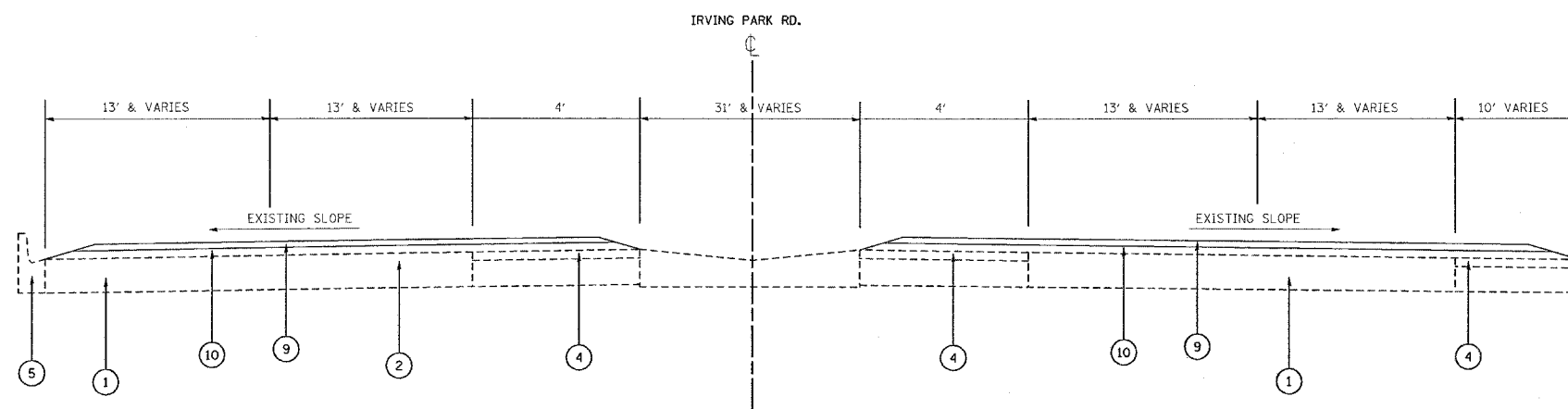
LEGEND

- ① EXISTING P.C.C. PAVEMENT, 10"±
- ② EXISTING HMA SURFACE 3"±
- ③ EXISTING AGGREGATE SHOULDER
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- ⑪ PROPOSED AGGREGATE WEDGE SHOULDER, TYPE B



EXISTING TYPICAL CROSS SECTION

STA. 33+44 TO STA. 34+06



PROPOSED TYPICAL CROSS SECTION

STA. 33+44 TO STA. 34+06

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
TYPICAL SECTIONS
ILL 19
W OF O/HARE CARGO RD. TO
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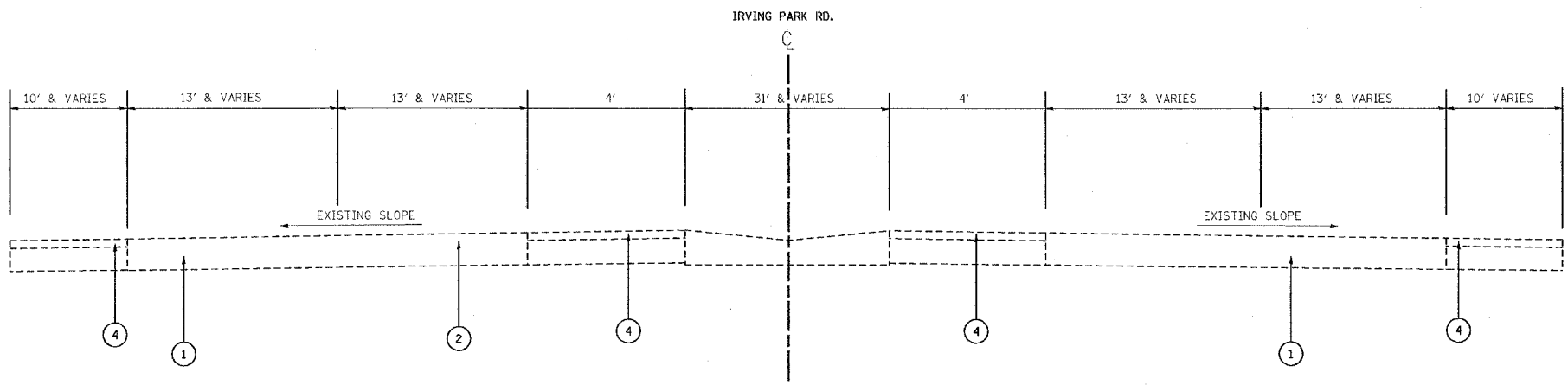
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
345	3058(A,B,C)RS-1	COOK	51	10
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

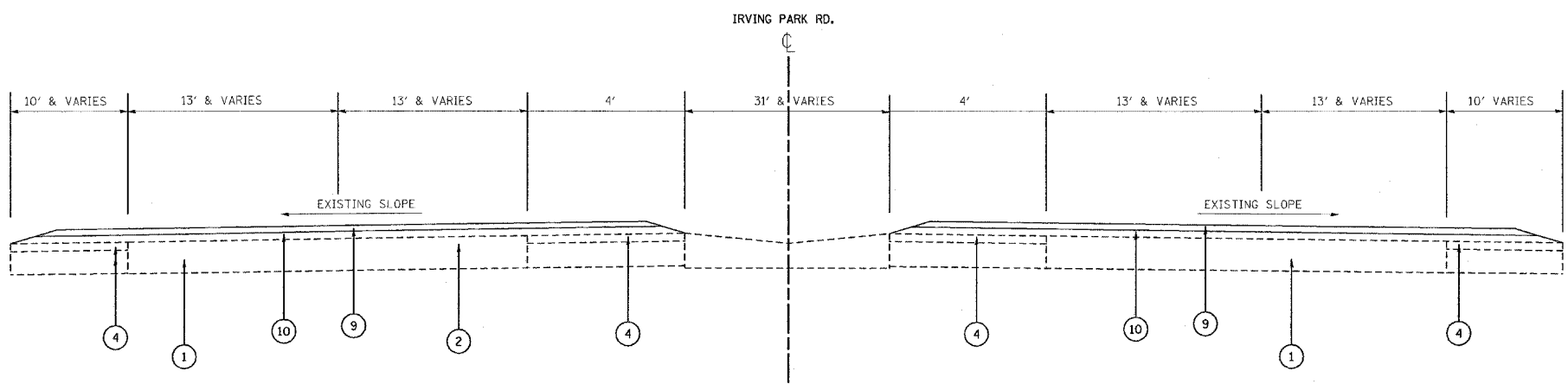
CONTRACT # 60C52

LEGEND

- ① EXISTING P.C.C. PAVEMENT, 10"±
- ② EXISTING HMA SURFACE 3"±
- ③ EXISTING AGGREGATE SHOULDER
- ④ EXISTING HMA SHOULDER
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- ⑪ PROPOSED AGGREGATE WEDGE SHOULDER, TYPE B



EXISTING TYPICAL CROSS SECTION
STA. 34+06 TO STA. 37+81



PROPOSED TYPICAL CROSS SECTION
STA. 34+06 TO STA. 37+81

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
TYPICAL SECTIONS
ILL 19
W OF O/HARE CARGO RD. TO
DES PLAINES RIVER
 SCALE: VERT. NONE
 HORIZ. NONE
 DATE 11/5/2007
 DRAWN BY C.A.D.D.
 CHECKED BY

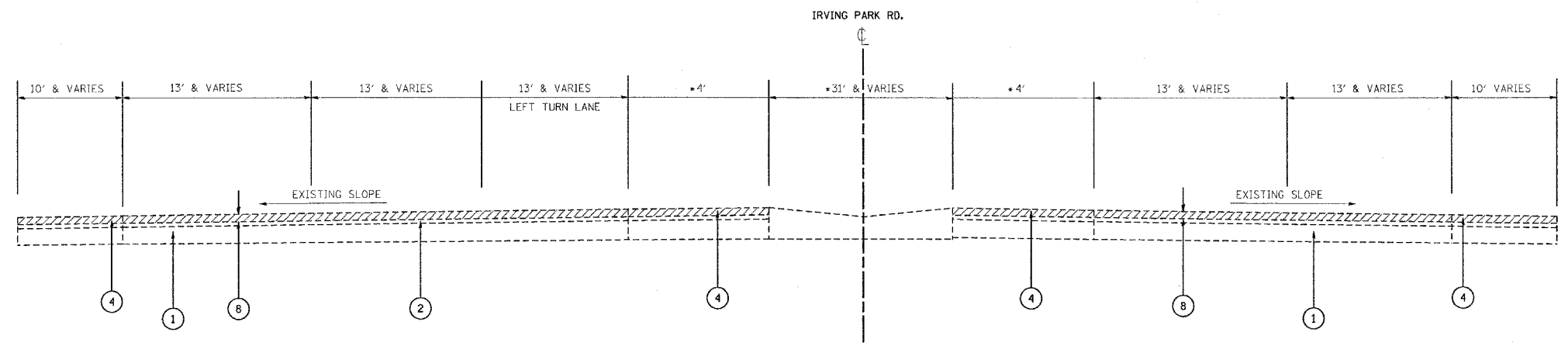
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
345	3058(A,B,C)RS-1	COOK	51	11
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			

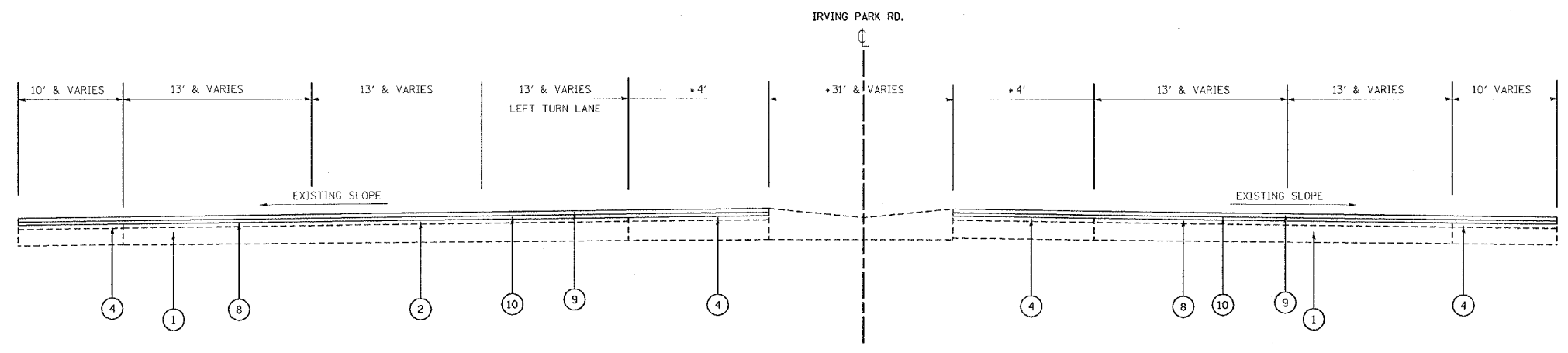
CONTRACT # 60C52

LEGEND

- ① EXISTING P.C.C. PAVEMENT, 10"±
- ② EXISTING HMA SURFACE 3"±
- ③ EXISTING AGGREGATE SHOULDER
- ④ EXISTING HMA SHOULDER
- ⑤ EXISTING COMBINATION CONCRETE CURB AND GUTTER
- ⑥ EXISTING CONCRETE MEDIAN
- ⑦ EXISTING CORRUGATED MEDIAN
- ⑧ PROPOSED HMA SURFACE REMOVAL, 2 1/2"
- ⑨ PROPOSED POLYMERIZED HMA SURFACE COURSE, MIX "F", N90, 1 3/4"
- ⑩ PROPOSED POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL-4.75, N50, 3/4"
- ⑪ PROPOSED AGGREGATE WEDGE SHOULDER, TYPE B



EXISTING TYPICAL CROSS SECTION * STA. 37+81 TO STA. 42+48
 STA. 37+81 TO STA. 42+48
 STA. 215+51 TO STA. 217+42



PROPOSED TYPICAL CROSS SECTION * STA. 37+81 TO STA. 42+48
 STA. 37+81 TO STA. 42+48
 STA. 215+51 TO STA. 217+42

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
TYPICAL SECTIONS
ILL 19
W OF O/HARE CARGO RD. TO
DES PLAINES RIVER

SCALE: VERT. NONE
 HORIZ. NONE
 DATE 11/5/2007

DRAWN BY C.A.D.D.
 CHECKED BY

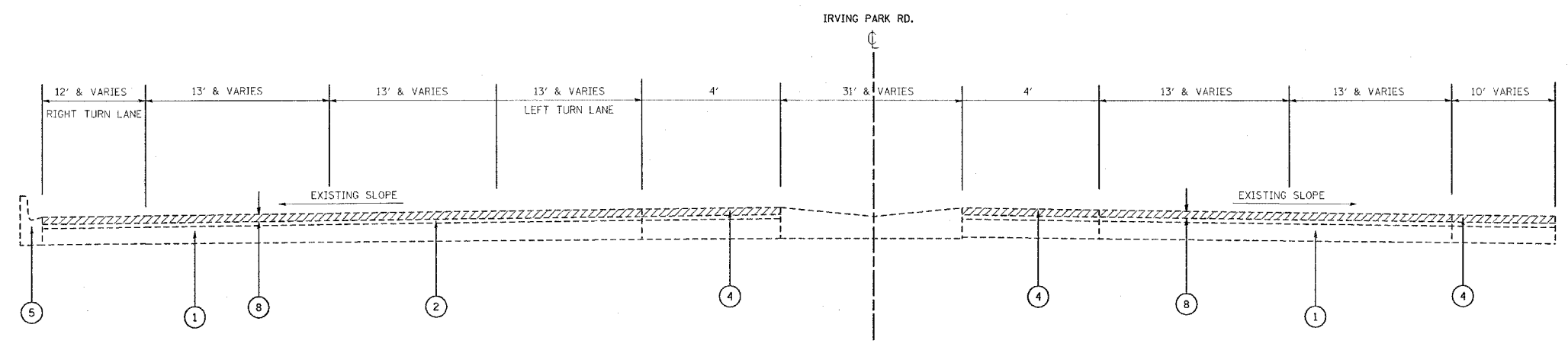
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

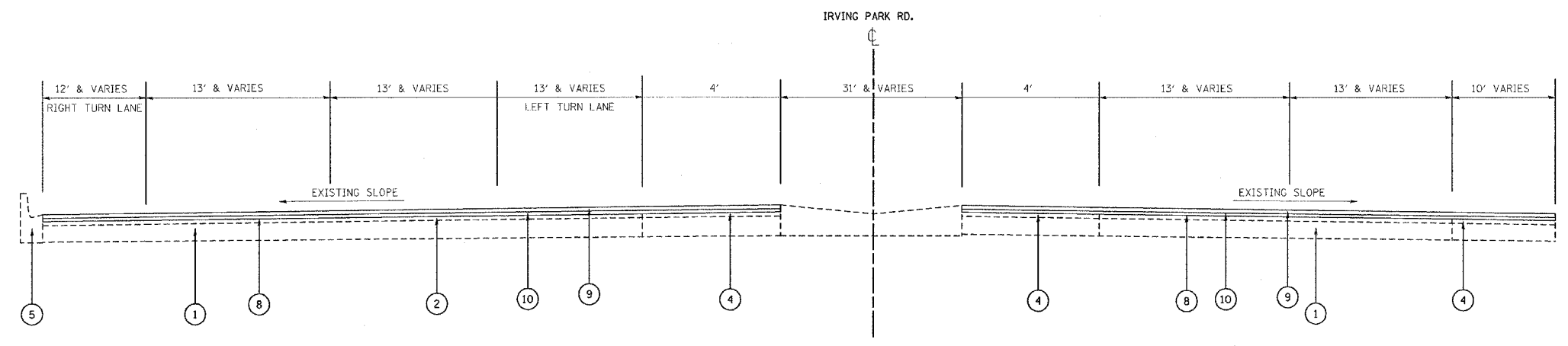
CONTRACT # 60C52

LEGEND

- ① EXISTING P.C.C. PAVEMENT, 10"±
- ② EXISTING HMA SURFACE 3"±
- ③ EXISTING AGGREGATE SHOULDER
- ④ EXISTING HMA SHOULDER
- ⑤ EXISTING COMBINATION CONCRETE CURB AND GUTTER
- ⑥ EXISTING CONCRETE MEDIAN
- ⑦ EXISTING CORRUGATED MEDIAN
- ⑧ PROPOSED HMA SURFACE REMOVAL, 2 1/2"
- ⑨ PROPOSED POLYMERIZED HMA SURFACE COURSE, MIX "F", N90, 1 3/4"
- ⑩ PROPOSED POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL-4.75, N50, 3/4"
- ⑪ PROPOSED AGGREGATE WEDGE SHOULDER, TYPE B



EXISTING TYPICAL CROSS SECTION
STA. 42+48 TO STA. 45+87



PROPOSED TYPICAL CROSS SECTION
STA. 42+48 TO STA. 45+87

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
TYPICAL SECTIONS
ILL 19
W OF O/HARE CARGO RD. TO
DES PLAINES RIVER

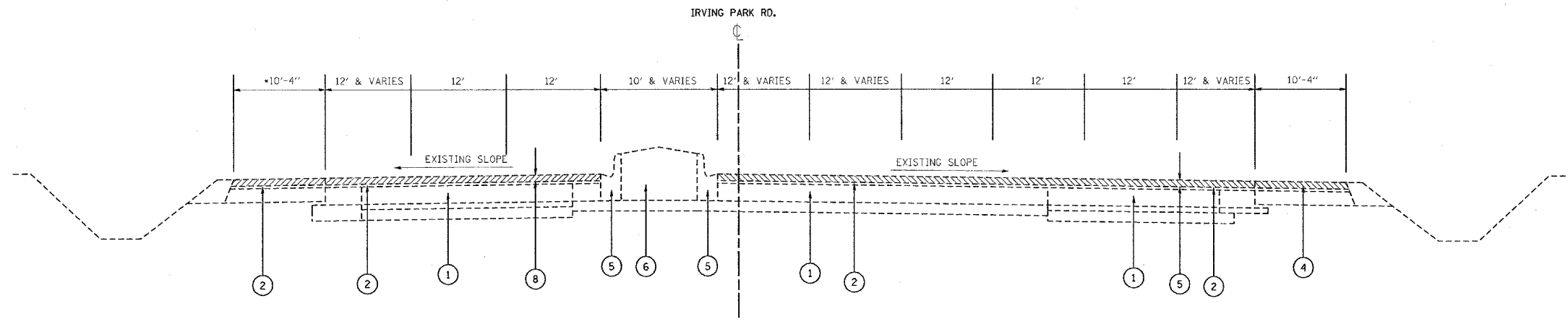
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 HORIZ. DATE 11/5/2007

DRAWN BY C.A.D.D.
 CHECKED BY

11/5/2007 c:\p\projects\23807\design\ca.dgn

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
345	3058(A,B,C)RS-1	COOK	51	13
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

CONTRACT # 60C52

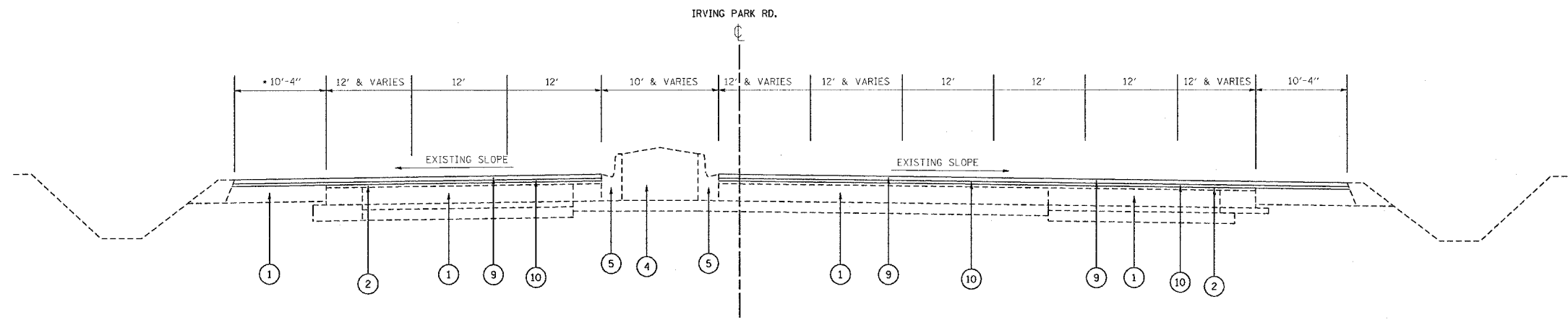


EXISTING TYPICAL CROSS SECTION
STA. 138+88 TO STA. 145+00

* 12' & VARIES THRU LANE
STA. 138+88 TO STA. 140+91

LEGEND

- ① EXISTING P.C.C. PAVEMENT, 10"±
- ② EXISTING HMA SURFACE 3"±
- ③ EXISTING AGGREGATE SHOULDER
- ④ EXISTING HMA SHOULDER
- ⑤ EXISTING COMBINATION CONCRETE CURB AND GUTTER
- ⑥ EXISTING CONCRETE MEDIAN
- ⑦ EXISTING CORRUGATED MEDIAN
- ⑧ PROPOSED HMA SURFACE REMOVAL, 2 1/2"
- ⑨ PROPOSED POLYMERIZED HMA SURFACE COURSE, MIX "F", N90, 1 3/4"
- ⑩ PROPOSED POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL-4.75, N50, 3/4"
- ⑪ PROPOSED AGGREGATE WEDGE SHOULDER, TYPE B



PROPOSED TYPICAL CROSS SECTION
STA. 138+88 TO STA. 145+00

* 12' & VARIES THRU LANE
STA. 138+88 TO STA. 140+91

REVISIONS	
NAME	DATE

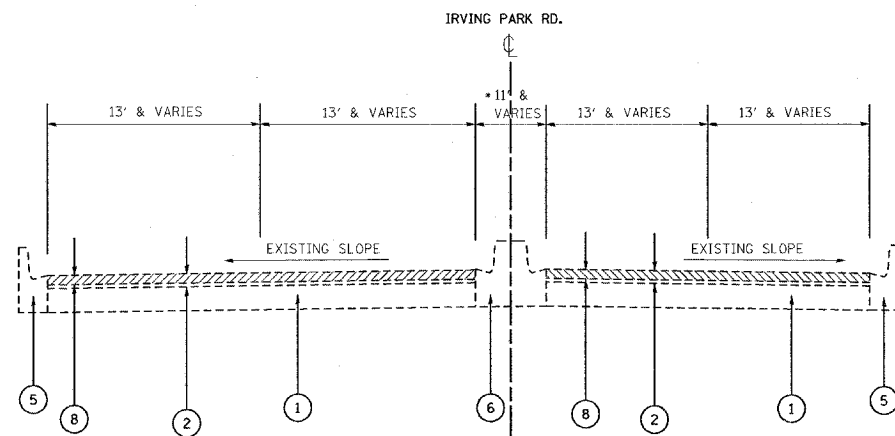
ILLINOIS DEPARTMENT OF TRANSPORTATION
TYPICAL SECTIONS
ILL 19
W OF O/HARE CARGO RD. TO
DES PLAINES RIVER

SCALE: VERT. NONE
HORIZ. NONE
DATE 11/5/2007
DRAWN BY C.A.D.D.
CHECKED BY

11/5/2007
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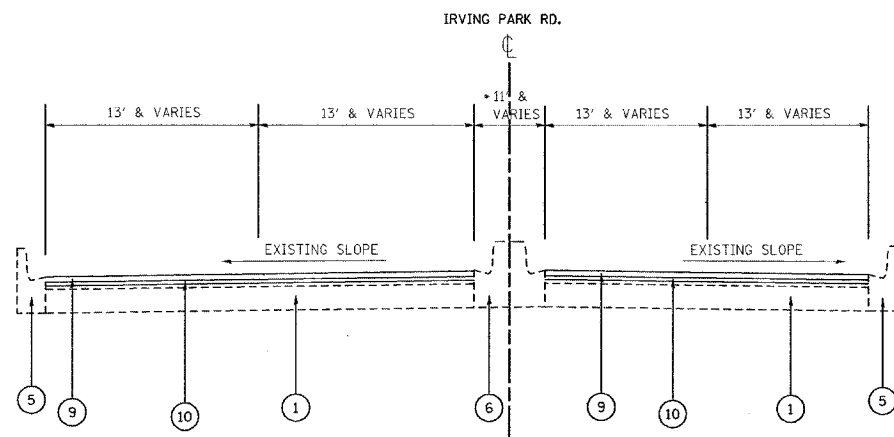
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345	3058(A,B,C)RS-1	COOK	51	15
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

CONTRACT # 60C52



EXISTING TYPICAL CROSS SECTION

STA. 146+39 TO STA. 155+24
STA. 208+57 TO STA. 215+51



PROPOSED TYPICAL CROSS SECTION

STA. 146+39 TO STA. 155+24
STA. 208+57 TO STA. 215+51

LEGEND

- ① EXISTING P.C.C. PAVEMENT, 10"±
- ② EXISTING HMA SURFACE 3"±
- ③ EXISTING AGGREGATE SHOULDER
- ④ EXISTING HMA SHOULDER
- ⑤ EXISTING COMBINATION CONCRETE CURB AND GUTTER
- ⑥ EXISTING CONCRETE MEDIAN
- ⑦ EXISTING CORRUGATED MEDIAN
- ⑧ PROPOSED HMA SURFACE REMOVAL, 2 1/2"
- ⑨ PROPOSED POLYMERIZED HMA SURFACE COURSE, MIX "F", N90, 1 3/4"
- ⑩ PROPOSED POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL-4.75, N50, 3/4"
- ⑪ PROPOSED AGGREGATE WEDGE SHOULDER, TYPE B

REVISIONS	
NAME	DATE

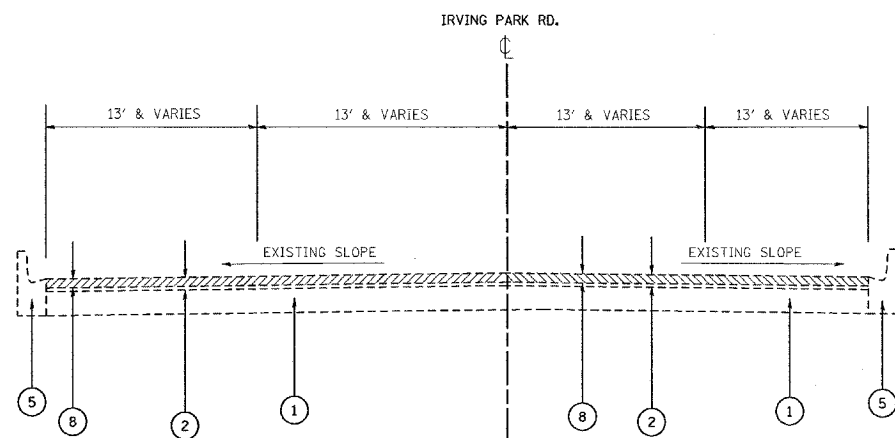
ILLINOIS DEPARTMENT OF TRANSPORTATION
TYPICAL SECTIONS
ILL 19
W OF O/HARE CARGO RD. TO
DES PLAINES RIVER

SCALE: VERT. NONE
HORIZ.
DATE 11/5/2007

DRAWN BY C.A.D.D.
CHECKED BY

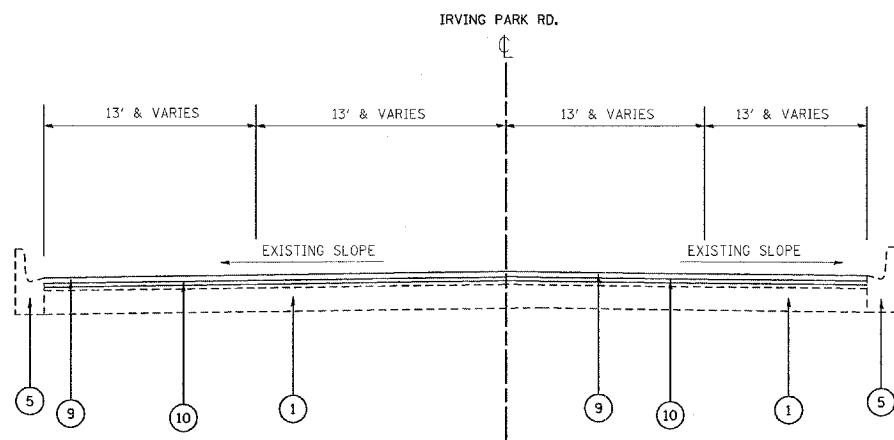
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
345	3058(A,B,C)RS-1	COOK	51	16
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

CONTRACT # 60C52



EXISTING TYPICAL CROSS SECTION

STA. 158+67 TO STA. 168+07
 STA. 180+27 TO STA. 186+03
 STA. 189+53 TO STA. 208+57



PROPOSED TYPICAL CROSS SECTION

STA. 158+67 TO STA. 168+07
 STA. 180+27 TO STA. 186+03
 STA. 189+53 TO STA. 208+57

LEGEND

- ① EXISTING P.C.C. PAVEMENT, 10"±
- ② EXISTING HMA SURFACE 3"±
- ③ EXISTING AGGREGATE SHOULDER
- ④ EXISTING HMA SHOULDER
- ⑤ EXISTING COMBINATION CONCRETE CURB AND GUTTER
- ⑥ EXISTING CONCRETE MEDIAN
- ⑦ EXISTING CORRUGATED MEDIAN
- ⑧ PROPOSED HMA SURFACE REMOVAL, 2 1/2"
- ⑨ PROPOSED POLYMERIZED HMA SURFACE COURSE, MIX "F", N90, 1 3/4"
- ⑩ PROPOSED POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL-4.75, N50, 3/4"
- ⑪ PROPOSED AGGREGATE WEDGE SHOULDER. TYPE B

REVISIONS	
NAME	DATE

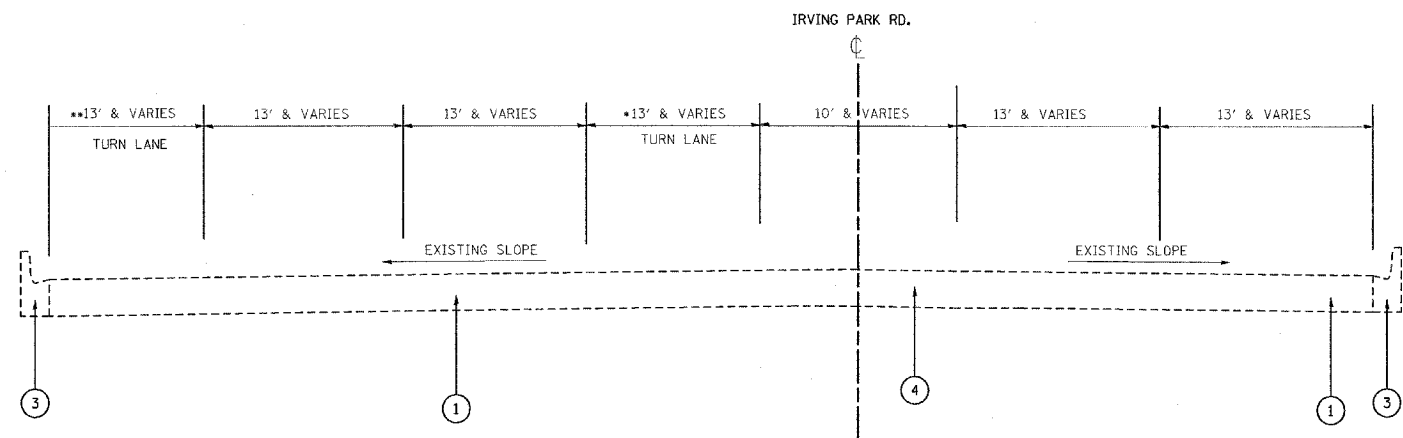
ILLINOIS DEPARTMENT OF TRANSPORTATION
 TYPICAL SECTIONS
 ILL 19
 W OF O/HARE CARGO RD. TO
 DES PLAINES RIVER

SCALE: VERT. NONE
 HORIZ.
 DATE 11/5/2007

DRAWN BY C.A.D.D.
 CHECKED BY

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
345	3058(A,B,C)RS-1	COOK	51	17
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

CONTRACT # 60C52



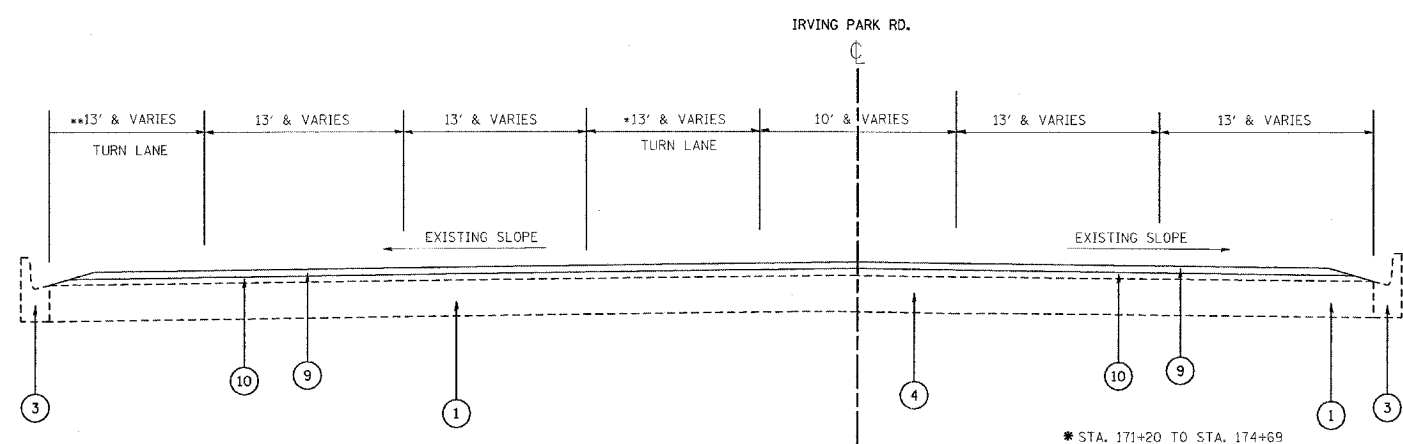
EXISTING TYPICAL CROSS SECTION

STA. 168+07 TO STA. 180+27

* STA. 171+20 TO STA. 174+69
 ** STA. 171+29 TO STA. 174+69

LEGEND

- ① EXISTING P.C.C. PAVEMENT, 10"±
- ② EXISTING HMA SURFACE 3"±
- ③ EXISTING AGGREGATE SHOULDER
- ④ EXISTING HMA SHOULDER
- ⑤ EXISTING COMBINATION CONCRETE CURB AND GUTTER
- ⑥ EXISTING CONCRETE MEDIAN
- ⑦ EXISTING CORRUGATED MEDIAN
- ⑧ PROPOSED HMA SURFACE REMOVAL, 2 1/2"
- ⑨ PROPOSED POLYMERIZED HMA SURFACE COURSE, MIX "F", N90, 1 3/4"
- ⑩ PROPOSED POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL-4.75, N50, 3/4"
- ⑪ PROPOSED AGGREGATE WEDGE SHOULDER. TYPE B



PROPOSED TYPICAL CROSS SECTION

STA. 168+07 TO STA. 180+27

* STA. 171+20 TO STA. 174+69
 ** STA. 171+29 TO STA. 174+69

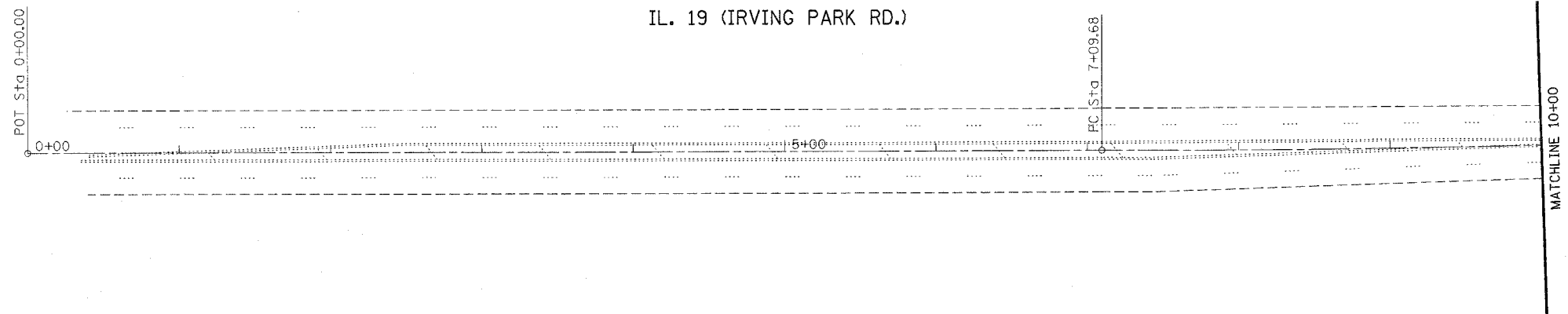
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 TYPICAL SECTIONS
 ILL 19
 W OF O/HARE CARGO RD. TO
 DES PLAINES RIVER

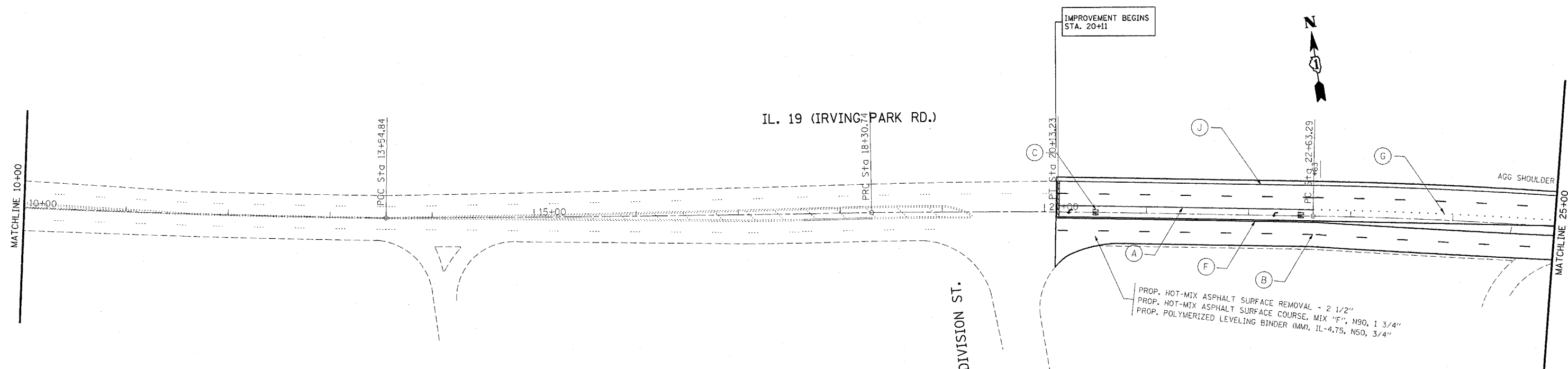
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 HORIZ. NONE
 DATE 11/5/2007
 DRAWN BY C.A.D.D.
 CHECKED BY

11/5/2007
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IL. 19 (IRVING PARK RD.)



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	PLOT DATE = 11/5/2007	DATE -	REVISED -					CONTRACT NO. 60C52				
								FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

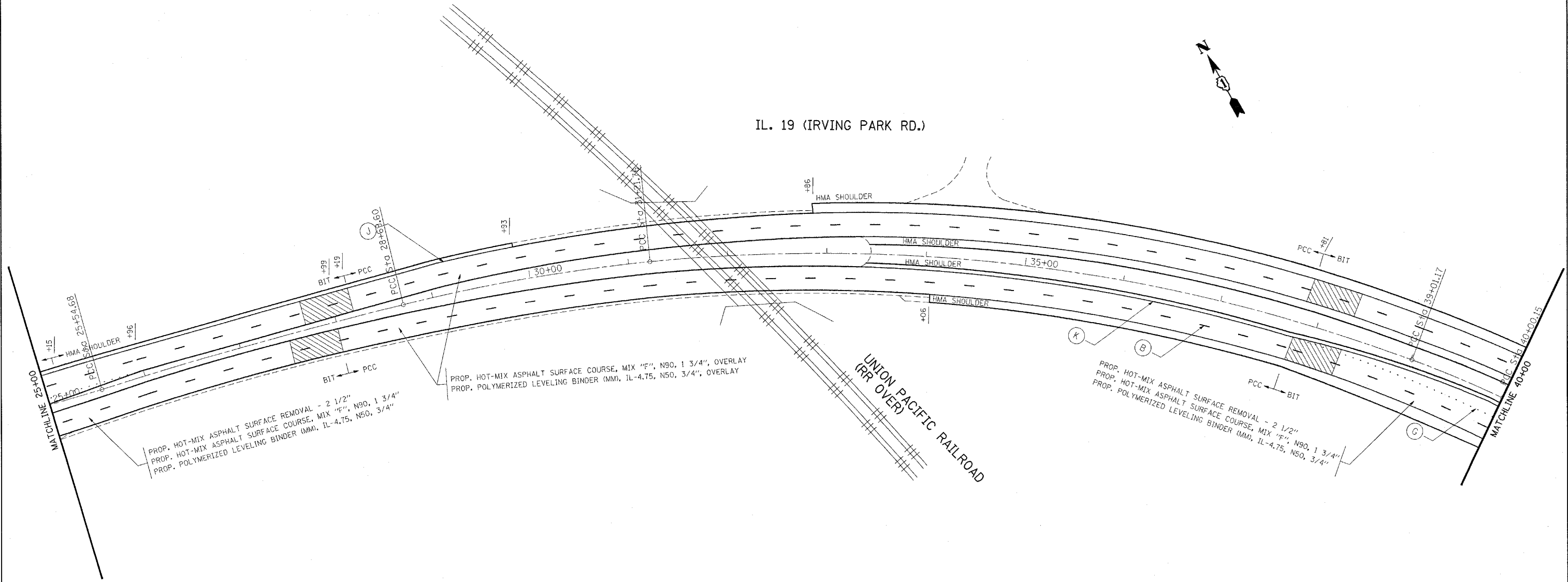


PROP. HOT-MIX ASPHALT SURFACE REMOVAL - 2 1/2"
 PROP. HOT-MIX ASPHALT SURFACE COURSE, MIX "F", N90, 1 3/4"
 PROP. POLYMERIZED LEVELING BINDER (MM), IL-4.75, N50, 3/4"

- (A) 6" WHITE - TURN LANE LINE (TYP.)
- (B) 4" WHITE - SKIP-DASH LINE (TYP.) (10' LINE/30' SPACE)
- (C) 8' WHITE - LETTERS & SYMBOLS (TYP.) (LEFT TURN ONLY, RIGHT TURN ONLY)
- (D) 24" SOLID WHITE - STOP LINES (TYP.)
- (E) 6" WHITE - CROSSWALK LINE (TYP.) (2 @ 6' C-C)
- (F) 4" YELLOW - DOUBLE YELLOW PAINTED MEDIAN (TYP.) (2 @ 11" C-C)
- (G) 6" WHITE - DOTTED LINE (TYP.) (2' LINE/6' SPACE)
- (H) 12" WHITE - 45° DIAGONAL (75' C-C OR MINIMUM OF 5)
- (I) 4" WHITE - SOLID EDGE LINE (TYP.)
- (J) 4" WHITE - SOLID EDGE LINE (TYP.)
- (K) 4" YELLOW - SOLID EDGE LINE (TYP.)

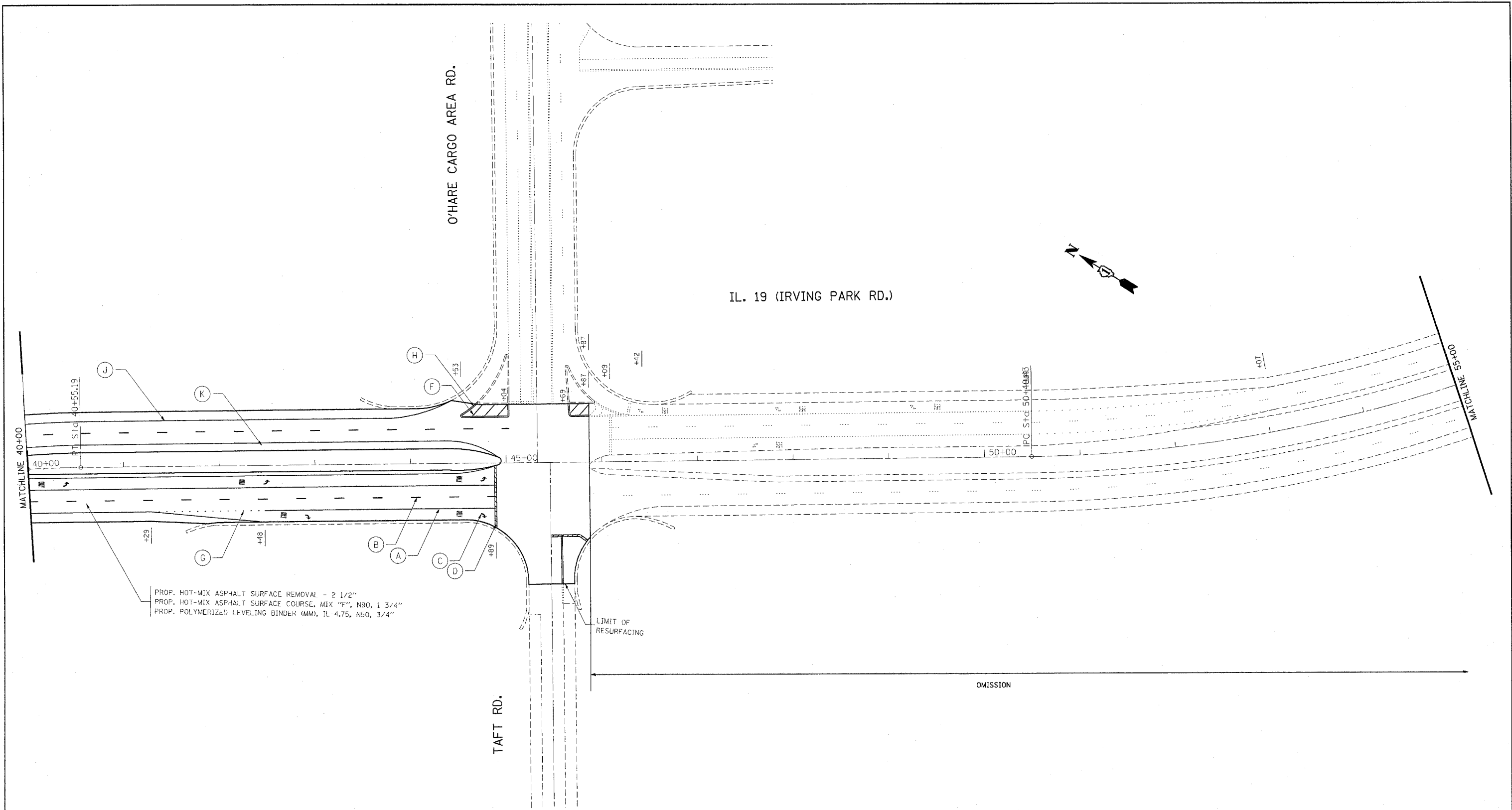
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	PLOT DATE = 11/5/2007	DATE -	REVISED -					CONTRACT NO. 60C52		FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT					

IL. 19 (IRVING PARK RD.)



- (A) 6" WHITE - TURN LANE LINE (TYP.)
- (B) 4" WHITE - SKIP-DASH LINE (TYP.) (10' LINE/30' SPACE)
- (C) 8' WHITE - LETTERS & SYMBOLS (TYP.) (LEFT TURN ONLY, RIGHT TURN ONLY)
- (D) 24" SOLID WHITE - STOP LINES (TYP.)
- (E) 6" WHITE - CROSSWALK LINE (TYP.) (2 @ 6' C-C)
- (F) 4" YELLOW - DOUBLE YELLOW PAINTED MEDIAN (TYP.) (2 @ 11" C-C)
- (G) 6" WHITE - DOTTED LINE (TYP.) (2' LINE/6' SPACE)
- (H) 8" WHITE - PAINTED MEDIAN (TYP.)
- (I) 12" WHITE - 45° DIAGONAL (75' C-C OR MINIMUM OF 5)

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PLOT SCALE = 50.0000 "/ IN.		CHECKED -	REVISED -		CONTRACT NO. 60C52							
PLOT DATE = 11/5/2007		DATE -	REVISED -		FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT							



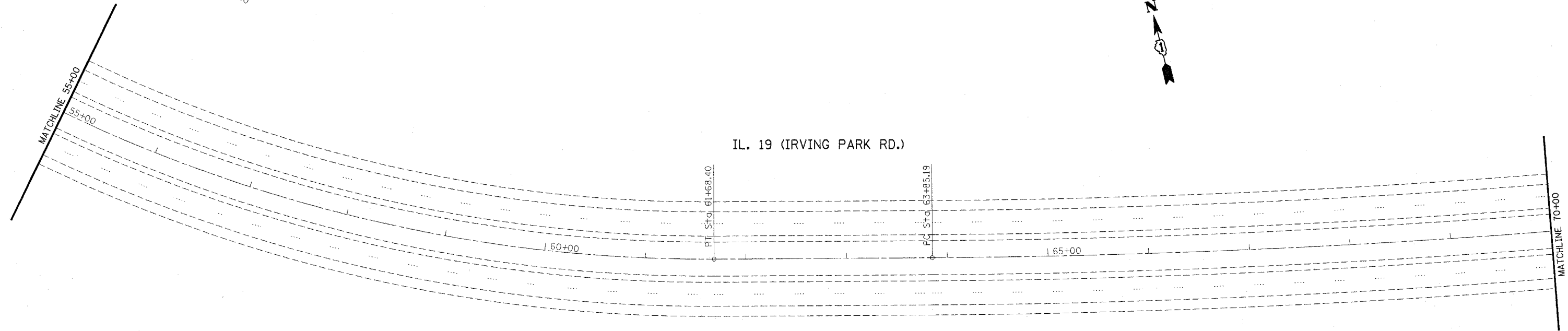
PROP. HOT-MIX ASPHALT SURFACE REMOVAL - 2 1/2"
 PROP. HOT-MIX ASPHALT SURFACE COURSE, MIX "F", N90, 1 3/4"
 PROP. POLYMERIZED LEVELING BINDER (MM), IL-4.75, N50, 3/4"

- (A) 6" WHITE - TURN LANE LINE (TYP.)
- (B) 4" WHITE - SKIP-DASH LINE (TYP.) (10' LINE/30' SPACE)
- (C) 8' WHITE - LETTERS & SYMBOLS (TYP.) (LEFT TURN ONLY, RIGHT TURN ONLY)
- (D) 24" SOLID WHITE - STOP LINES (TYP.)
- (E) 6" WHITE - CROSSWALK LINE (TYP.) (2 @ 6' C-C)
- (F) 4" YELLOW - DOUBLE YELLOW PAINTED MEDIAN (TYP.) (2 @ 11" C-C)
- (G) 6" WHITE - DOTTED LINE (TYP.) (2' LINE/6' SPACE)
- (H) 8" WHITE - PAINTED MEDIAN (TYP.)
- (I) 12" WHITE - 45° DIAGONAL (75' C-C OR MINIMUM OF 5)
- (J) 4" WHITE - SOLID EDGE LINE (TYP.)
- (K) 4" YELLOW - SOLID EDGE LINE (TYP.)

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PLOT SCALE = 50,0000' / IN.		CHECKED -	REVISED -		FED. ROAD DIST. NO. _____		ILLINOIS FED. AID PROJECT		CONTRACT NO. 60C52				
PLOT DATE = 11/5/2007		DATE -	REVISED -										

VE E-IL19-10
 56+37.80
 45' 47" (LT)
 65.00'
 38.38'
 118.98'
 113.74'

 RUN = ---
 C. STA. = 50+49.43
 T. STA. = 61+68.40



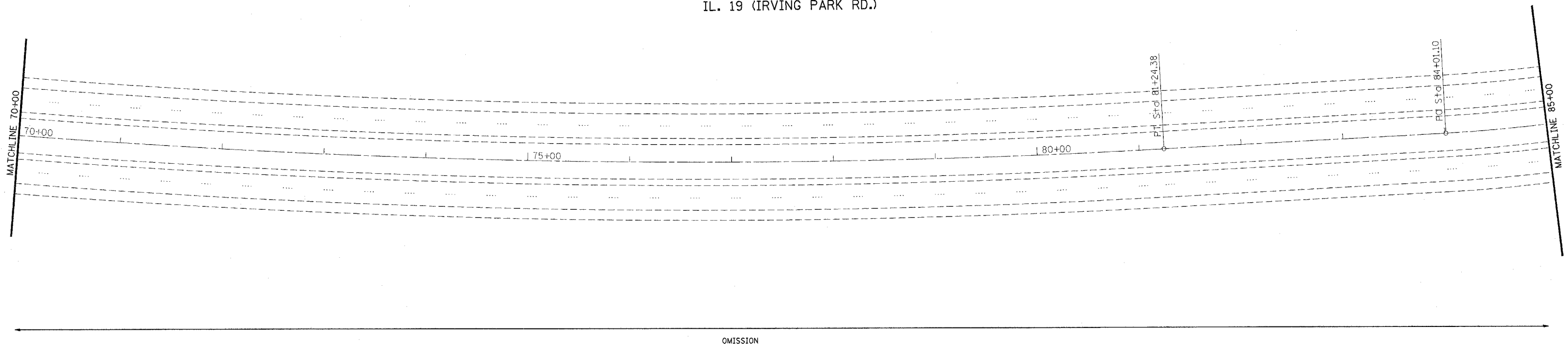
IL. 19 (IRVING PARK RD.)

OMISSION

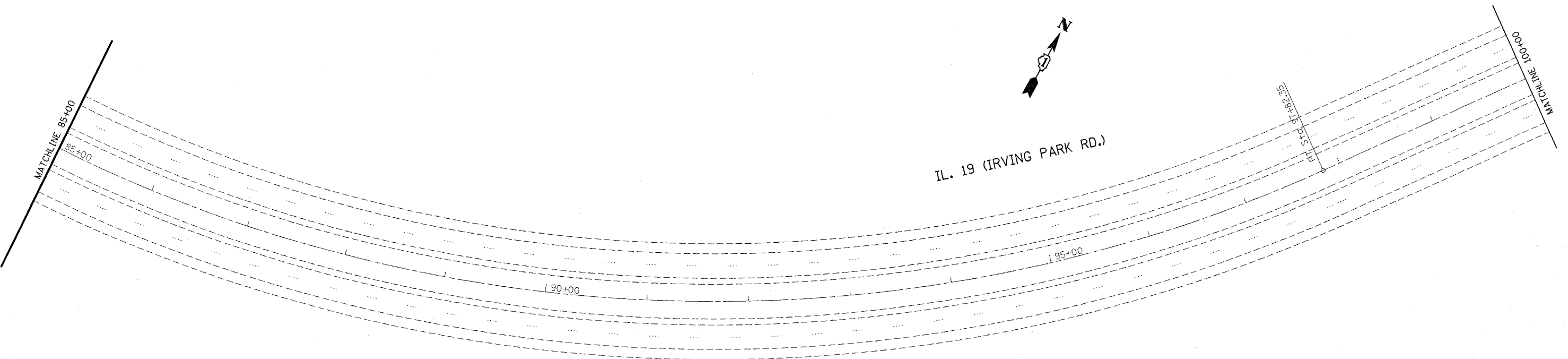
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	PLOT SCALE = 50,0000 "/ IN.	CHECKED -	REVISED -		CONTRACT NO. 60C52									
PLOT DATE = 11/5/2007	DATE -	REVISED -	FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT											

EXIST. CURVE E. IL19-11
 PI STA. = 72+57.82
 $\Delta = 11^\circ 41' 45''$ (LT)
 $D = 0^\circ 40' 21''$
 $R = 8,520.00'$
 $T = 872.63'$
 $L = 1,739.20'$
 $E = 44.57'$
 $e = \text{-----}$
 $T.R. = \text{-----}$
 $S.E. \text{ RUN} = \text{-----}$
 P.C. STA. = 63+85.19
 P.T. STA. = 81+24.38

IL. 19 (IRVING PARK RD.)



FILE NAME = c:\projects\dl23807\sh_r.dwg	USER NAME = qureshya	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SCALE:	SHEET NO. OF SHEETS	STA. 70+00 TO STA. 85+00	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 50.0000' / IN.	DRAWN -	REVISED -					345	3058 (A,B,C) RS-1	COOK	51	23
PLOT DATE = 11/5/2007	CHECKED -	REVISED -	CONTRACT NO. 60C52									
DATE -	REVISED -	FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT										



OMISSION

EXIST. CURVE E. IL19-12
 PI STA. = 91+48.74
 $\Delta = 54^\circ 23' 30''$ (LT)
 $D = 3^\circ 56' 16''$
 $R = 1,455.00'$
 $T = 747.63'$
 $L = 1,381.25'$
 $E = 180.84'$
 $e = \text{---}$
 $T.R. = \text{---}$
 $S.E. RUN = \text{---}$
 $P.C. STA. = \text{---}$

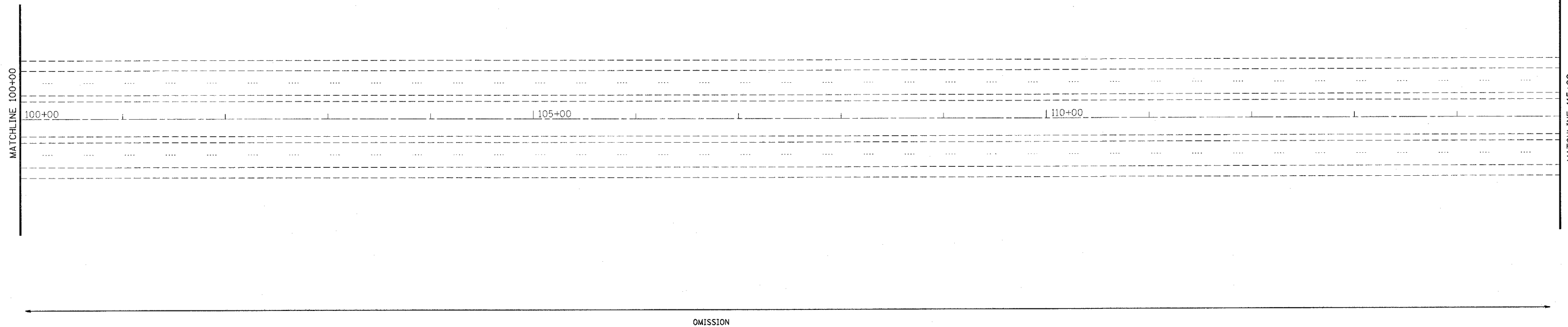
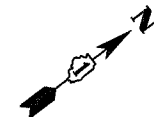
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		DRAWN -	REVISED -
		CHECKED -	REVISED -
		DATE -	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

SCALE:	SHEET NO. OF SHEETS	STA. 85+00 TO STA. 100+00
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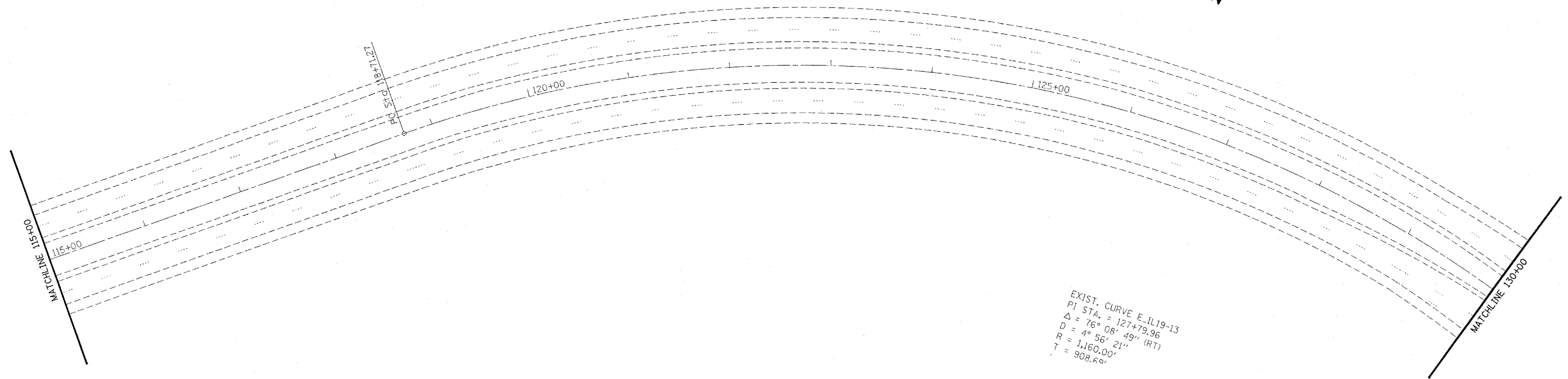
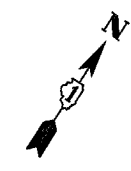
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
345	3058 (A,B,C) RS-1	COOK	51	24
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 60C52	

IL. 19 (IRVING PARK RD.)



FILE NAME = c:\projects\123887\sh_rdy.dgn	USER NAME = qureshiya	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SCALE:		SHEET NO. OF SHEETS	STA. 100+00 TO STA. 115+00	F.A.P. RTE. 345	SECTION 3058 (A,B,C) RS-1	COUNTY COOK	TOTAL SHEETS 51	SHEET NO. 25
	PLOT SCALE = 50.0000' / INL	CHECKED -	REVISED -						CONTRACT NO. 60C52				
	PLOT DATE = 11/5/2007	DATE -	REVISED -						FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

IL. 19 (IRVING PARK RD.)

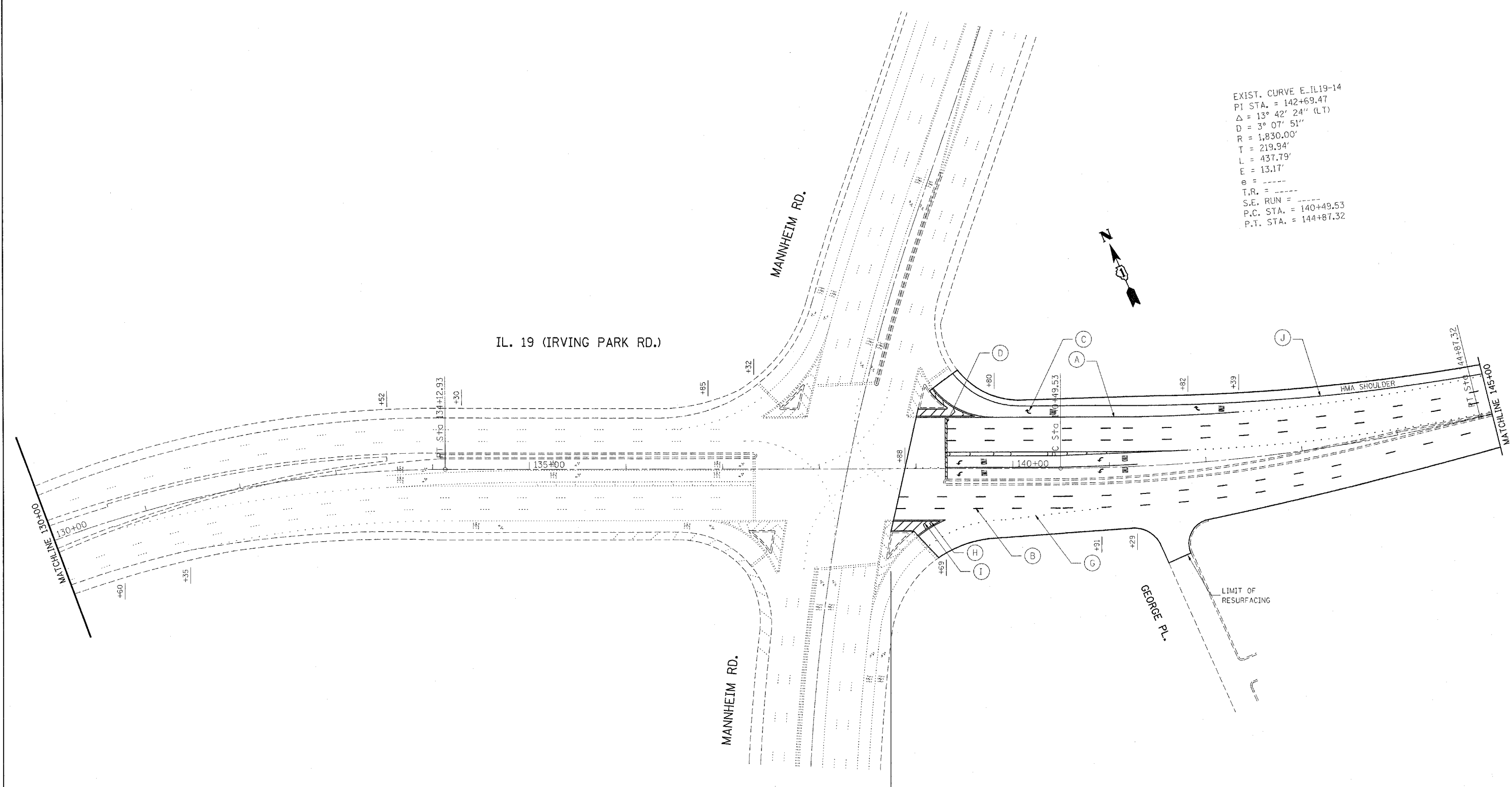


EXIST. CURVE E-IL19-13
 PI STA. = 127+79.96
 $\Delta = 76^\circ 08' 49''$ (RT)
 $D = 4^\circ 56' 21''$
 $R = 1,160.00'$
 $T = 908.66'$

←----- OMISSION -----→

FILE NAME = c:\projects\dl23807\sh-rdwj.dgn	USER NAME = qurashya	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SCALE:	SHEET NO. OF SHEETS	STA. 115+00 TO STA. 130+00	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	DRAWN -	REVISED -	345					3058 (A,B,C) RS-1	COOK	51	26	
	CHECKED -	REVISED -	CONTRACT NO. 60C52									
	DATE -	REVISED -	FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT									

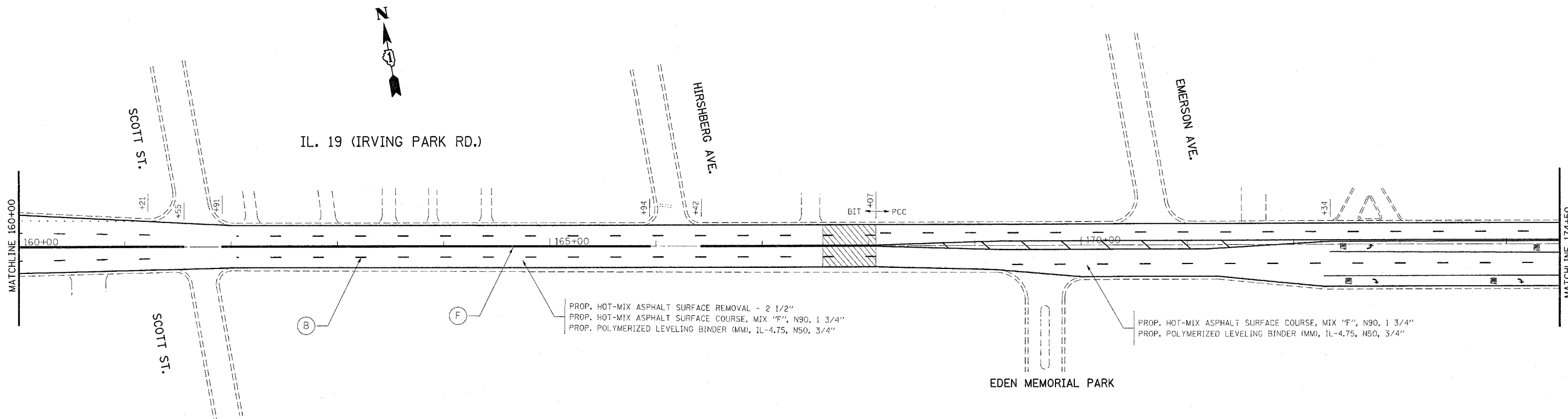
EXIST. CURVE E_IL19-14
 PI STA. = 142+69.47
 $\Delta = 13^\circ 42' 24''$ (LT)
 $D = 3^\circ 07' 51''$
 $R = 1,830.00'$
 $T = 219.94'$
 $L = 437.79'$
 $E = 13.17'$
 $\theta = \text{---}$
 T.R. = ---
 S.E. RUN = ---
 P.C. STA. = 140+49.53
 P.T. STA. = 144+87.32



OMISSION

- (A) 6" WHITE - TURN LANE LINE (TYP.)
- (B) 4" WHITE - SKIP-DASH LINE (TYP.) (10' LINE/30' SPACE)
- (C) 8" WHITE - LETTERS & SYMBOLS (TYP.) (LEFT TURN ONLY, RIGHT TURN ONLY)
- (D) 24" SOLID WHITE - STOP LINES (TYP.)
- (E) 6" WHITE - CROSSWALK LINE (TYP.) (2 @ 6' C-C)
- (F) 4" YELLOW - DOUBLE YELLOW PAINTED MEDIAN (TYP.) (2 @ 11" C-C)
- (G) 6" WHITE - DOTTED LINE (TYP.) (2' LINE/6' SPACE)
- (H) 8" WHITE - PAINTED MEDIAN (TYP.)
- (I) 12" WHITE - 45° DIAGONAL (75' C-C OR MINIMUM OF 5)
- (J) 4" WHITE - SOLID EDGE LINE (TYP.)
- (K) 4" YELLOW - SOLID EDGE LINE (TYP.)

FILE NAME = c:\projects\dl23807\ah_rdy.dgn	USER NAME = qureshya	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SCALE: _____	SHEET NO. _____ OF _____ SHEETS	STA. 130+00 TO STA. 145+00	F.A.P. RTE. 345	SECTION 3058 (A,B,C) RS-1	COUNTY COOK	TOTAL SHEETS 51	SHEET NO. 27	
PLOT SCALE = 50,000' / IN.		DRAWN -	REVISED -		FED. ROAD DIST. NO. _____		ILLINOIS FED. AID PROJECT						
PLOT DATE = 11/5/2007		CHECKED -	REVISED -										
		DATE -	REVISED -										



PROP. HOT-MIX ASPHALT SURFACE REMOVAL - 2 1/2"
 PROP. HOT-MIX ASPHALT SURFACE COURSE, MIX "F", N90, 1 3/4"
 PROP. POLYMERIZED LEVELING BINDER (MM), IL-4.75, N50, 3/4"

PROP. HOT-MIX ASPHALT SURFACE COURSE, MIX "F", N90, 1 3/4"
 PROP. POLYMERIZED LEVELING BINDER (MM), IL-4.75, N50, 3/4"

- (A) 6" WHITE - TURN LANE LINE (TYP.)
- (B) 4" WHITE - SKIP-DASH LINE (TYP.) (10' LINE/30' SPACE)
- (C) 8" WHITE - LETTERS & SYMBOLS (TYP.) (LEFT TURN ONLY, RIGHT TURN ONLY)
- (D) 24" SOLID WHITE - STOP LINES (TYP.)
- (E) 6" WHITE - CROSSWALK LINE (TYP.) (2 @ 6' C-C)
- (F) 4" YELLOW - DOUBLE YELLOW PAINTED MEDIAN (TYP.) (2 @ 11" C-C)
- (G) 6" WHITE - DOTTED LINE (TYP.) (2' LINE/6' SPACE)
- (H) 8" WHITE - PAINTED MEDIAN (TYP.)
- (I) 12" WHITE - 45° DIAGONAL (75' C-C OR MINIMUM OF 5)
- (J) 4" WHITE - SOLID EDGE LINE (TYP.)
- (K) 4" YELLOW - SOLID EDGE LINE (TYP.)

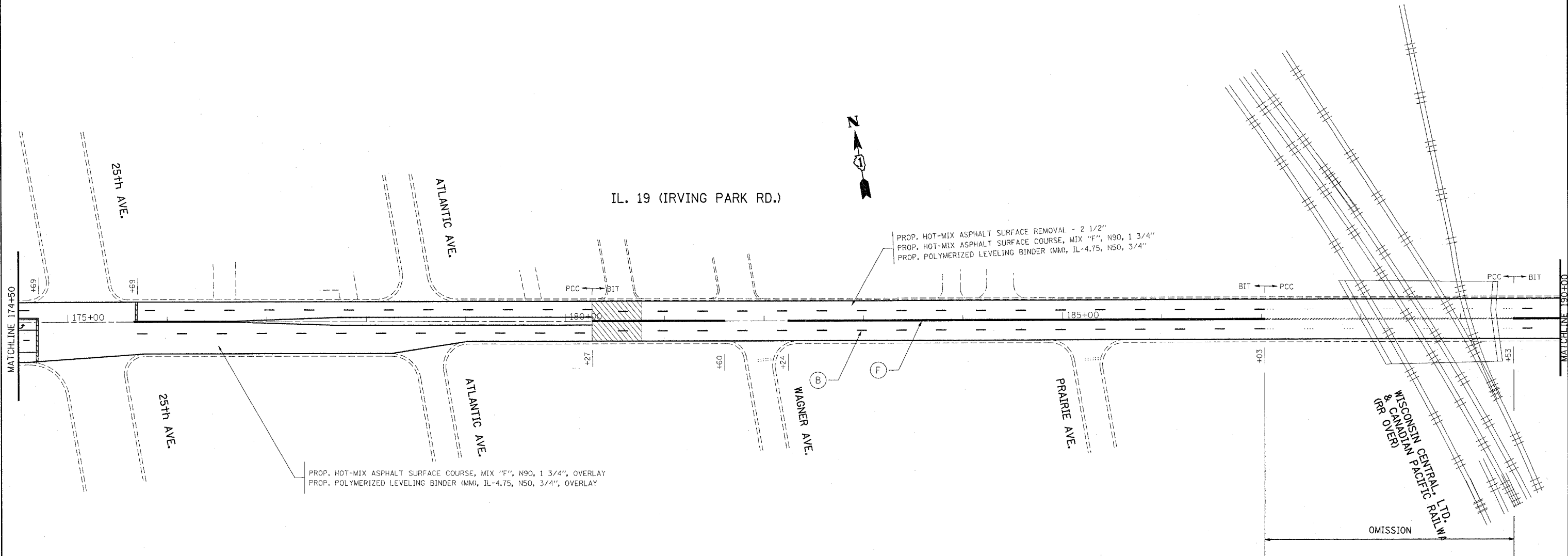
FILE NAME =	USER NAME =	DESIGNED -	REVISED -
o:\projects\123807\ah-rd.dgn	quashige	DRAWN -	REVISED -
	PLOT SCALE = 50,0000 ' / IN.	CHECKED -	REVISED -
	PLOT DATE = 11/5/2007	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SCALE:	SHEET NO. OF SHEETS	STA. 160+00 TO STA. 174+50
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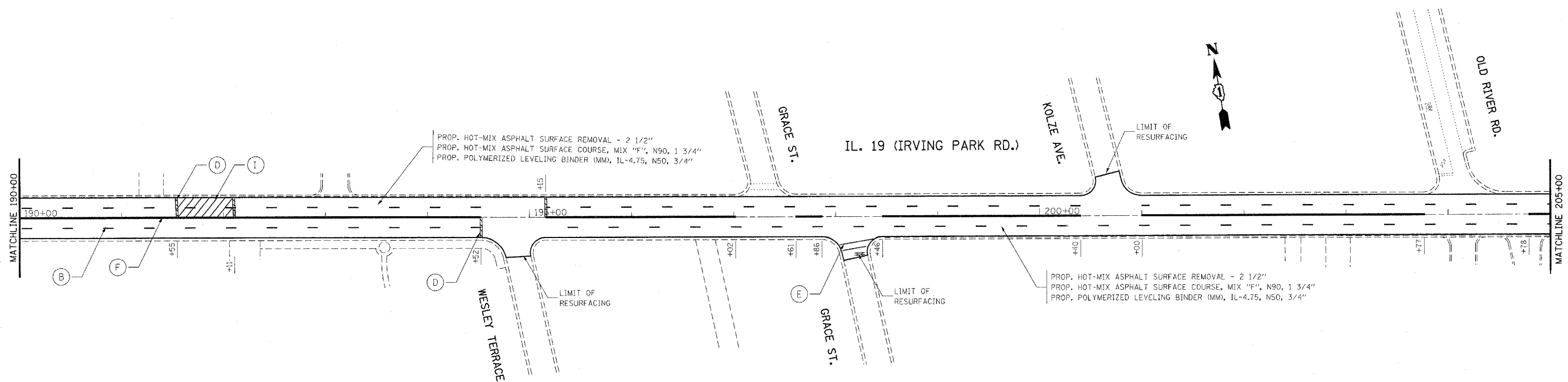
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
345	3058 (A,B,C) RS-1	COOK	51	29
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 60C52	

IL. 19 (IRVING PARK RD.)



- (A) 6" WHITE - TURN LANE LINE (TYP.)
- (B) 4" WHITE - SKIP-DASH LINE (TYP.) (10' LINE/30' SPACE)
- (C) 8' WHITE - LETTERS & SYMBOLS (TYP.) (LEFT TURN ONLY, RIGHT TURN ONLY)
- (D) 24" SOLID WHITE - STOP LINES (TYP.)
- (E) 6" WHITE - CROSSWALK LINE (TYP.) (2 @ 6' C-C)
- (F) 4" YELLOW - DOUBLE YELLOW PAINTED MEDIAN (TYP.) (2 @ 11" C-C)
- (G) 6" WHITE - DOTTED LINE (TYP.) (2' LINE/6' SPACE)
- (H) 8" WHITE - PAINTED MEDIAN (TYP.)
- (I) 12" WHITE - 45° DIAGONAL (75' C-C OR MINIMUM OF 5)
- (J) 4" WHITE - SOLID EDGE LINE (TYP.)
- (K) 4" YELLOW - SOLID EDGE LINE (TYP.)

FILE NAME = e:\projects\dl23807\sh_rdy.dgn	USER NAME = qurashiyu	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SCALE: _____	SHEET NO. _____ OF _____ SHEETS	STA. 174+50 TO STA. 190+00	F.A.P. RTE. 345	SECTION 3058 (A,B,C) RS-1	COUNTY COOK	TOTAL SHEETS 51	SHEET NO. 30
PLOT SCALE = 50.0000' / IN.		CHECKED -						CONTRACT NO. 60C52				
PLOT DATE = 11/5/2007		DATE -						FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

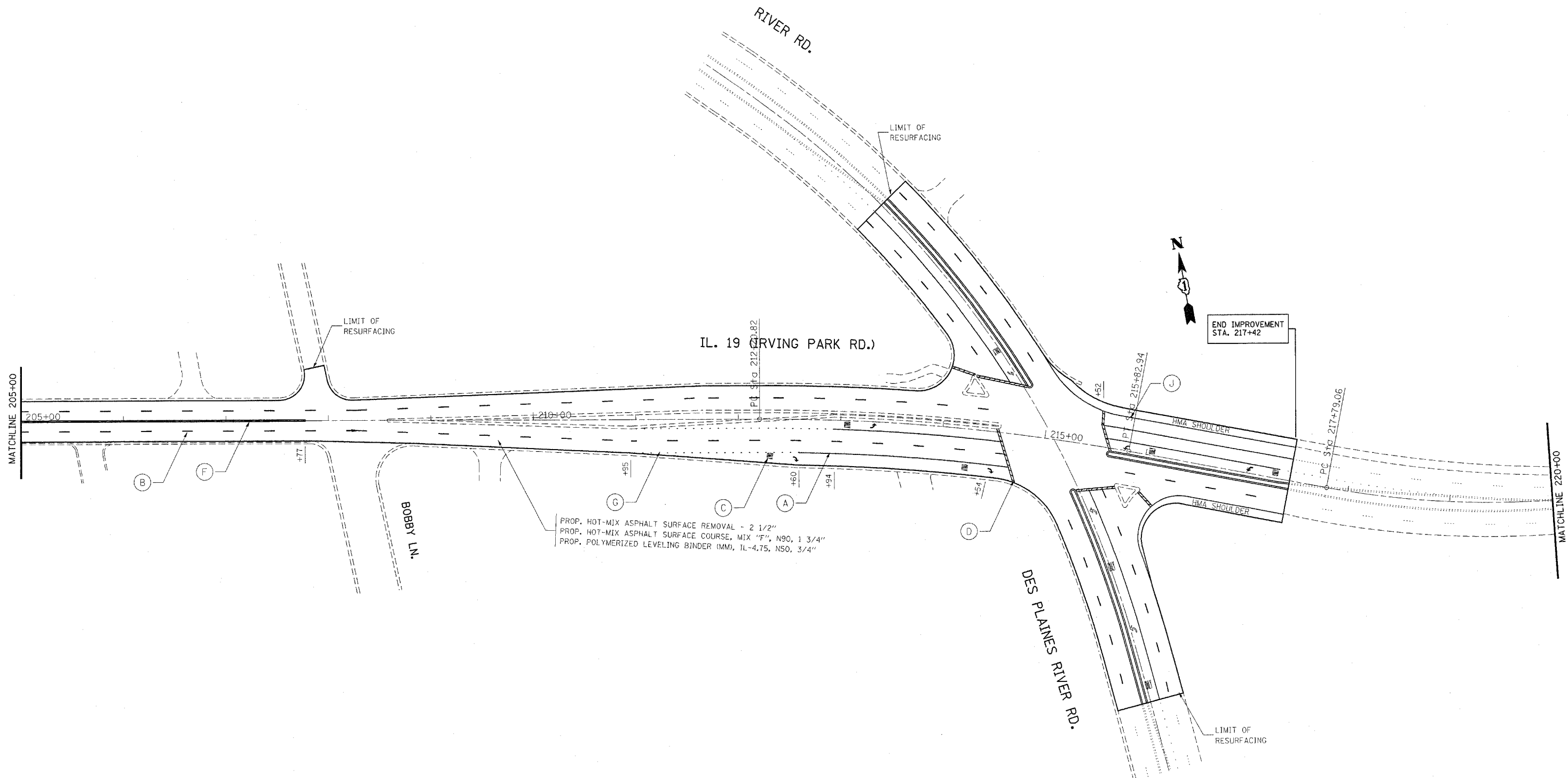


- (A) 6" WHITE - TURN LANE LINE (TYP.)
- (B) 4" WHITE - SKIP-DASH LINE (TYP.) (10' LINE/30' SPACE)
- (C) 8" WHITE - LETTERS & SYMBOLS (TYP.) (LEFT TURN ONLY, RIGHT TURN ONLY)
- (D) 24" SOLID WHITE - STOP LINES (TYP.)
- (E) 6" WHITE - CROSSWALK LINE (TYP.) (2 @ 6' C-C)
- (F) 4" YELLOW - DOUBLE YELLOW PAINTED MEDIAN (TYP.) (2 @ 11" C-C)
- (G) 6" WHITE - DOTTED LINE (TYP.) (2' LINE/6' SPACE)
- (H) 8" WHITE - PAINTED MEDIAN (TYP.)
- (I) 12" WHITE - 45° DIAGONAL (75' C-C OR MINIMUM OF 5)
- (J) 4" WHITE - SOLID EDGE LINE (TYP.)
- (K) 4" YELLOW - SOLID EDGE LINE (TYP.)

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

FILE NAME = c:\projects\dl23807\sh.rdw.dgn	USER NAME = gureshya	DESIGNED -	REVISED -
		DRAWN -	REVISED -
		CHECKED -	REVISED -
		DATE -	REVISED -

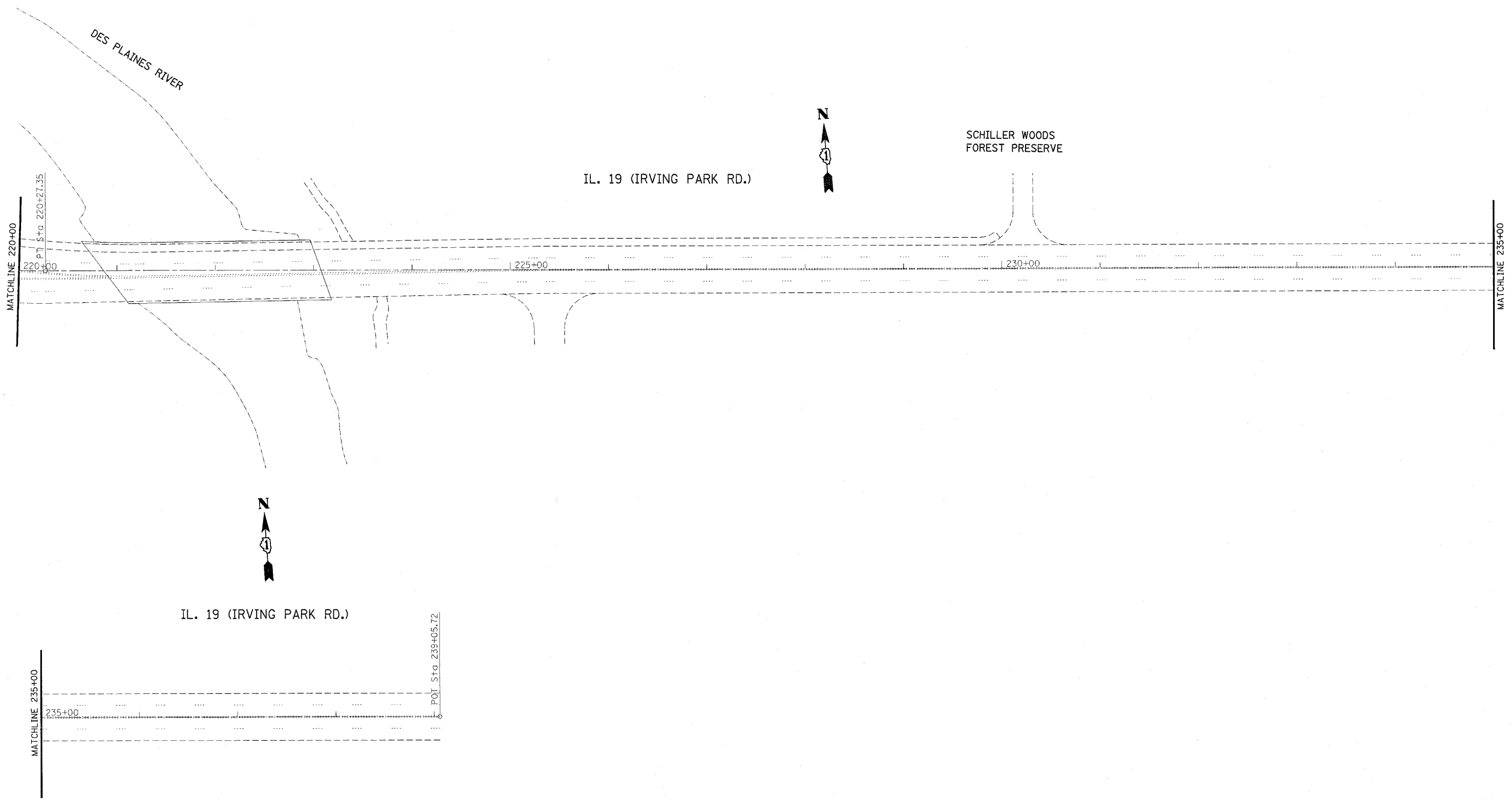
SCALE:	SHEET NO. OF SHEETS	STA. 190+00 TO STA. 205+00	F.A.P. RTE. 345	SECTION 3058 (A,B,C) RS-1	COUNTY COOK	TOTAL SHEETS 51	SHEET NO. 31
			FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				
			CONTRACT NO. 60C52				



- (A) 6" WHITE - TURN LANE LINE (TYP.)
- (B) 4" WHITE - SKIP-DASH LINE (TYP.) (10' LINE/30' SPACE)
- (C) 8" WHITE - LETTERS & SYMBOLS (TYP.) (LEFT TURN ONLY, RIGHT TURN ONLY)
- (D) 24" SOLID WHITE - STOP LINES (TYP.)
- (E) 6" WHITE - CROSSWALK LINE (TYP.) (2 @ 6' C-C)
- (F) 4" YELLOW - DOUBLE YELLOW PAINTED MEDIAN (TYP.) (2 @ 11" C-C)
- (G) 6" WHITE - DOTTED LINE (TYP.) (2' LINE/6' SPACE)
- (H) 8" WHITE - PAINTED MEDIAN (TYP.)
- (I) 12" WHITE - 45° DIAGONAL (75' C-C OR MINIMUM OF 5)
- (J) 4" WHITE - SOLID EDGE LINE (TYP.)
- (K) 4" YELLOW - SOLID EDGE LINE (TYP.)

PROP. HOT-MIX ASPHALT SURFACE REMOVAL - 2 1/2"
 PROP. HOT-MIX ASPHALT SURFACE COURSE, MIX "F", N90, 1 3/4"
 PROP. POLYMERIZED LEVELING BINDER (MM), IL-4.75, N50, 3/4"

FILE NAME = c:\projects\dl23807\sh_rdw.dgn	USER NAME = qureshya	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SCALE: _____	SHEET NO. OF SHEETS	STA. 205+00 TO STA. 220+00	F.A.P. RTE. 345	SECTION 3058 (A,B,C) RS-1	COUNTY COOK	TOTAL SHEETS 51	SHEET NO. 32
PLOT SCALE = 50.0000' / IN.		CHECKED -	REVISED -	FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT		CONTRACT NO. 60CS2						
PLOT DATE = 11/5/2007		DATE -	REVISED -									



IL. 19 (IRVING PARK RD.)

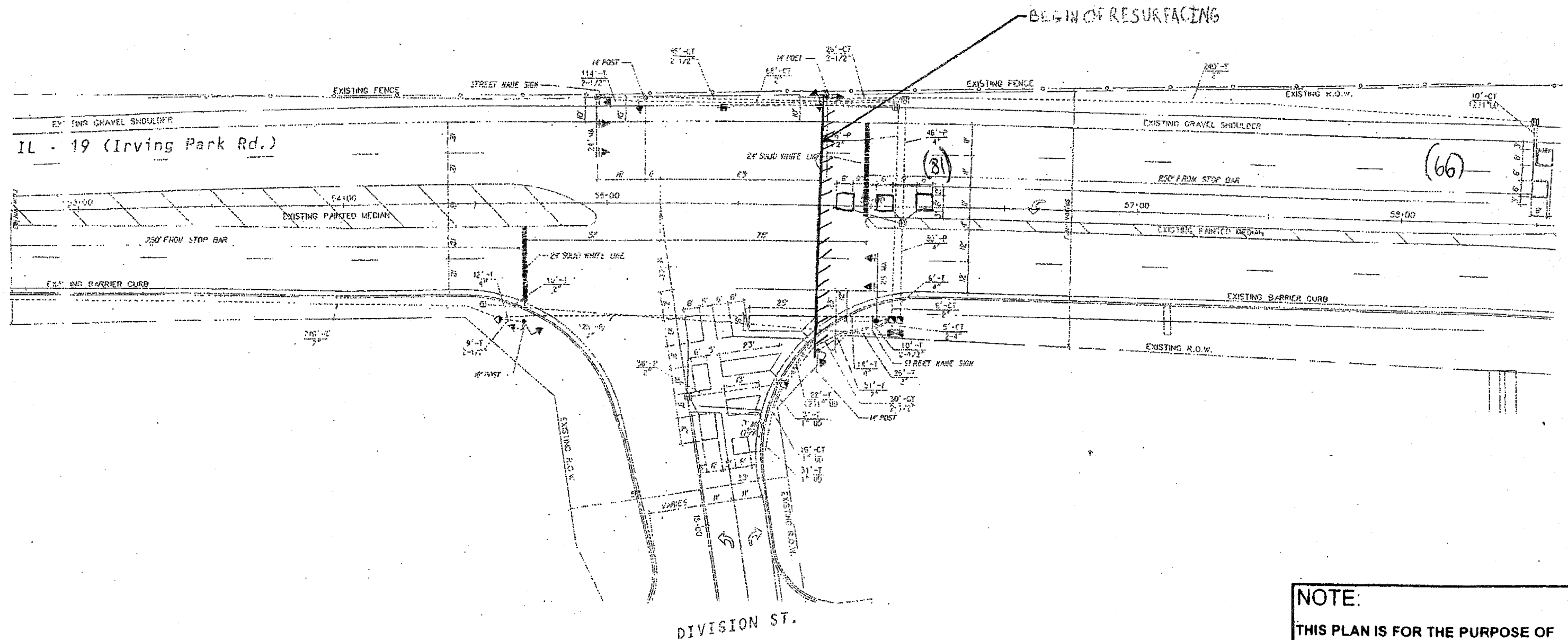
SCHILLER WOODS
FOREST PRESERVE

IL. 19 (IRVING PARK RD.)

FILE NAME = c:\projects\dl23807\sh_rdw.dgn	USER NAME = qureshya	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SCALE:		SHEET NO. OF SHEETS	STA. 220+00 TO STA. 239+00	F.A.P. RTE. 345	SECTION 3058 (A,B,C) RS-1	COUNTY COOK	TOTAL SHEETS 51	SHEET NO. 33
	PLOT SCALE = 50,0000' / IN.	DRAWN -	REVISED -		FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT							
PLOT DATE = 11/5/2007	CHECKED -	REVISED -	CONTRACT NO. 60C52										
DATE -	REVISED -												



SCALE: 1"=20'



REPLACE ALL DETECTOR LOOPS AS SHOWN

(WITHIN THE RESURFACING LIMITS)

CODE NO.	QUANTITY	UNIT	ITEM
88600600	147	Foot	Detector Loop Replacement

NOTE:
THIS PLAN IS FOR THE PURPOSE OF REPLACING THE DETECTOR LOOPS ONLY. ALL OTHER INFORMATION SHOWN IS NOT RELATED AND WILL BE DISREGARDED.

ILLINOIS DEPARTMENT OF TRANSPORTATION

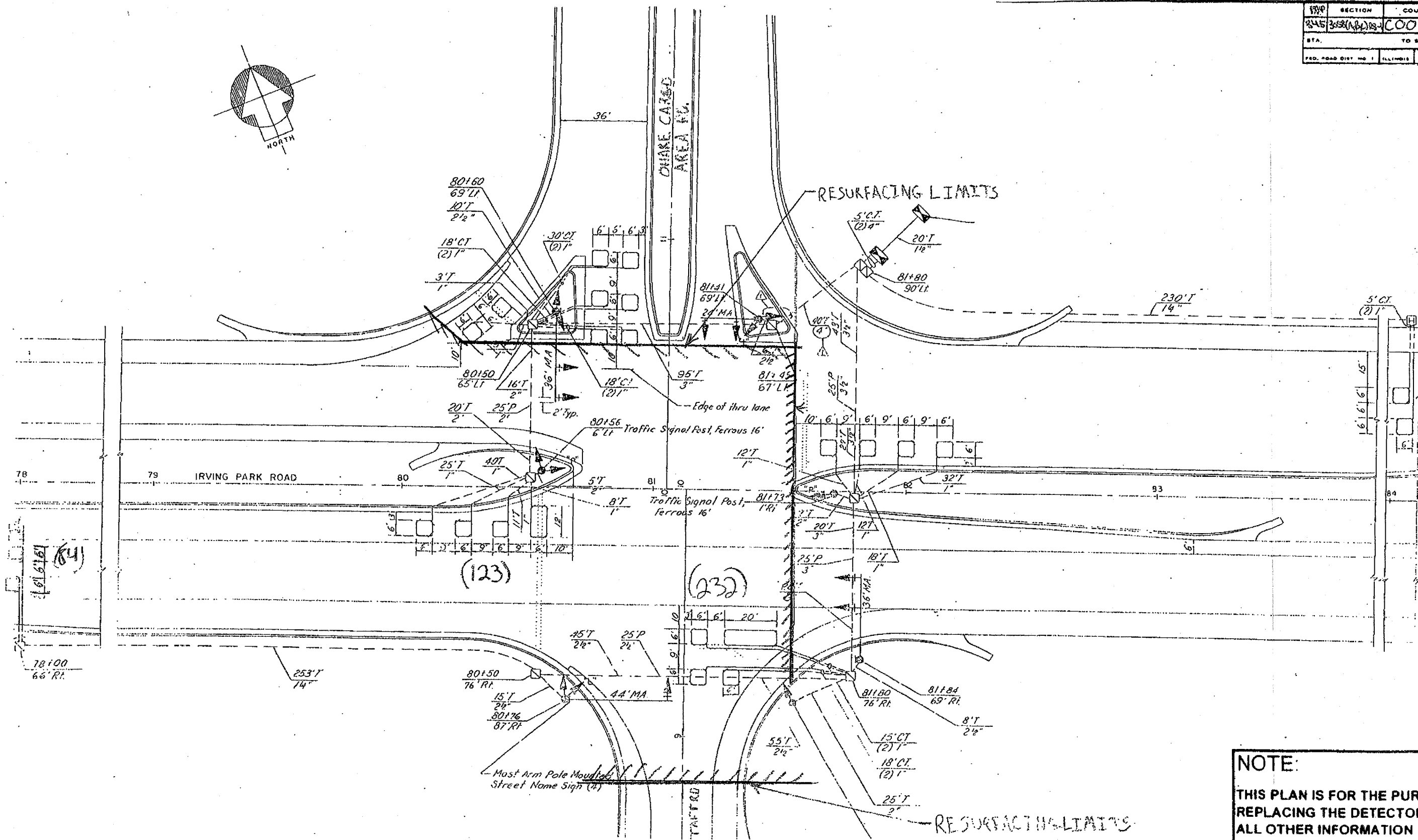
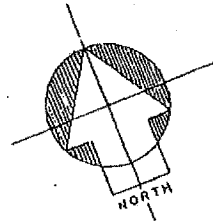
DETECTOR LOOP REPLACEMENT

ILL. RTE 19 (IRVING PARK RD.)
DIVISION ST.

SCALE: 1"=20'
DATE: 02.17.07

DRAWN BY: JHE
DESIGNED BY: JHE
CHECKED BY: DAI

REVISIONS	
NAME	DATE



NOTE:
 THIS PLAN IS FOR THE PURPOSE OF REPLACING THE DETECTOR LOOPS ONLY. ALL OTHER INFORMATION SHOWN IS NOT RELATED AND WILL BE DISREGARDED.

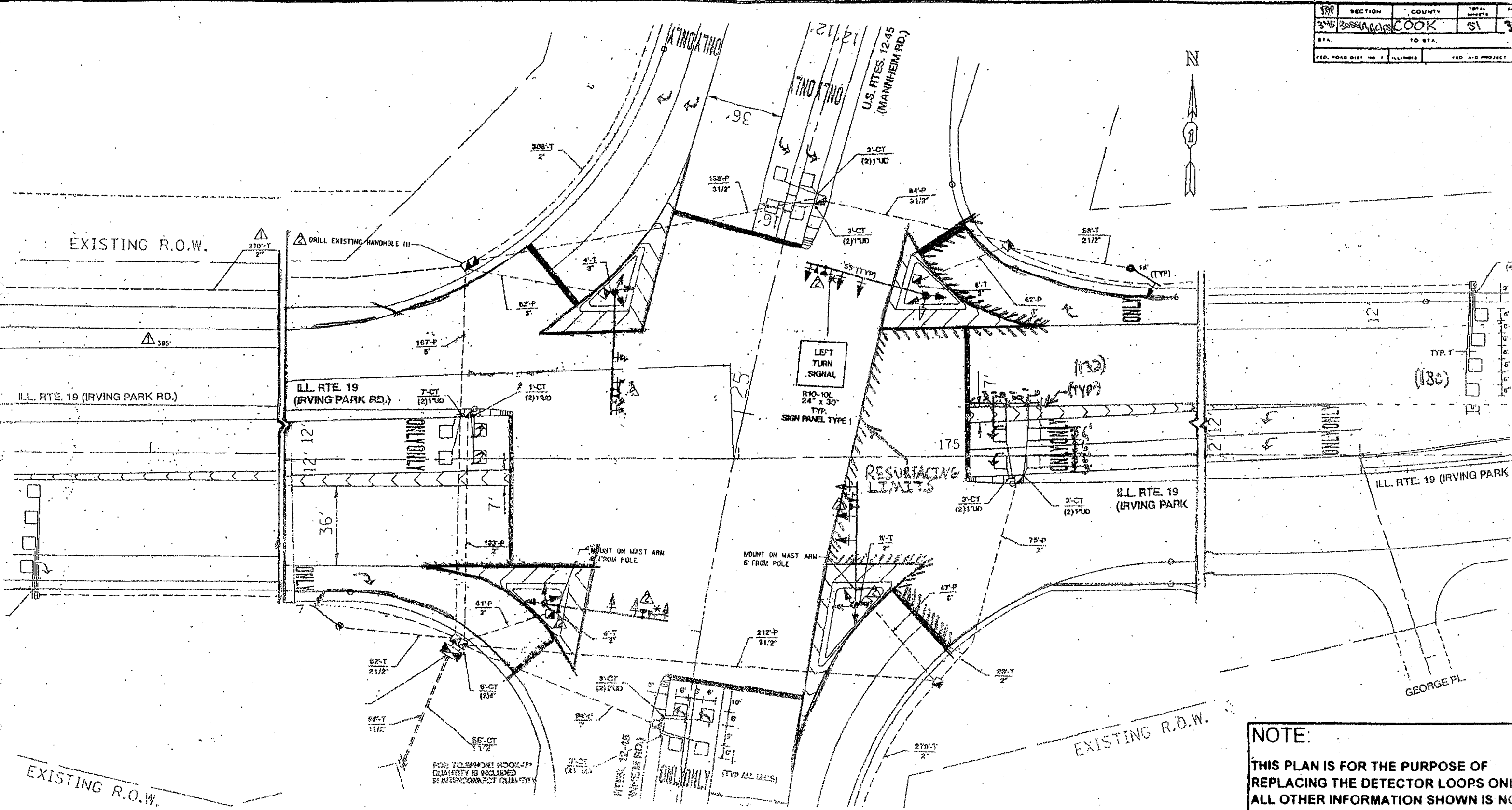
REPLACE ALL DETECTOR LOOPS AS SHOWN
 (WITHIN THE RESURFACING LIMITS)

CODE NO.	QUANTITY	UNIT	ITEM
88600600	439	Foot	Detector Loop Replacement

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
DETECTOR LOOP REPLACEMENT
 ILL. RTE. 19 (IRVING PARK RD) - TAFT RD
 (CHARE CARGO AREA RD)
 SCALE: 1" = 40'
 DATE: OCT 2007
 DRAWN BY: JHE
 DESIGNED BY: JHE
 CHECKED BY: DAJ

338	SECTION	COUNTY	TOTAL SHEETS
346	30524A(0018)	COOK	51
STA.		TO STA.	
FED. ROAD DIST. NO. 1		ILLINOIS	FED. AID PROJECT



NOTE:
 THIS PLAN IS FOR THE PURPOSE OF REPLACING THE DETECTOR LOOPS ONLY. ALL OTHER INFORMATION SHOWN IS NOT RELATED AND WILL BE DISREGARDED.

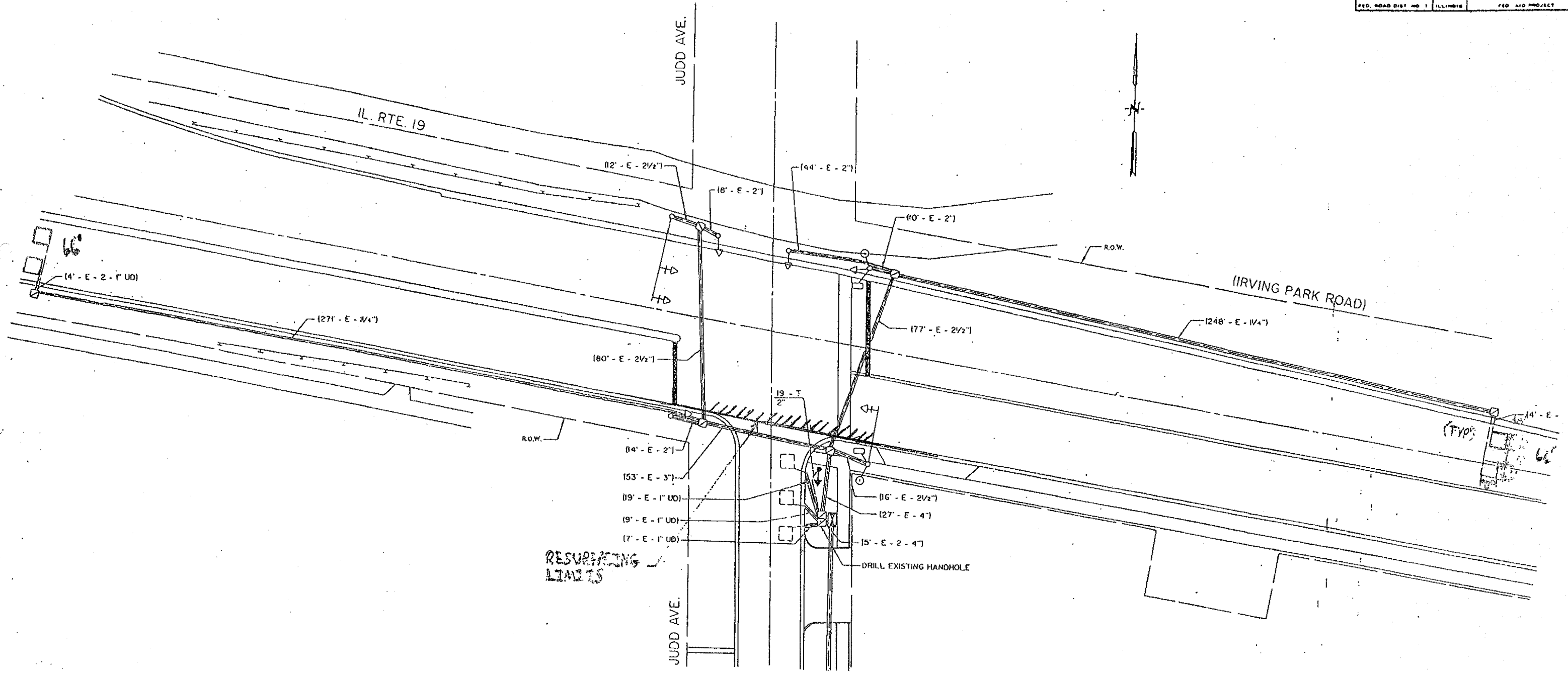
REPLACE ALL DETECTOR LOOPS AS SHOWN

(WITHIN THE RESURFACING LIMITS)

CODE NO.	QUANTITY	UNIT	ITEM
8860600	312	Foot	Detector Loop Replacement

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
DETECTOR LOOP REPLACEMENT
 ILL. RTE. 19 (IRVING PARK RD.) AT
 MANNHEIM RD.
 SCALE: 1" = 40'
 DATE: SEPT 2007
 DRAWN BY: JHL
 DESIGNED BY: JHL
 CHECKED BY: DA



RESURFACING
LIMITS

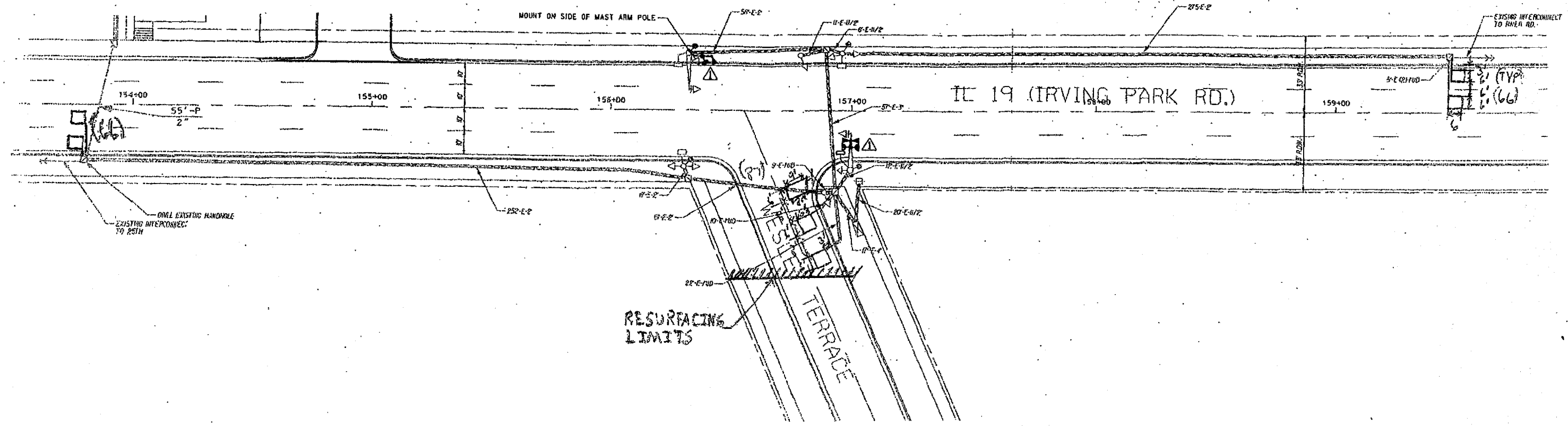
NOTE:
THIS PLAN IS FOR THE PURPOSE OF REPLACING THE DETECTOR LOOPS ONLY. ALL OTHER INFORMATION SHOWN IS NOT RELATED AND WILL BE DISREGARDED.

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

CODE NO.	QUANTITY	UNIT	ITEM
8860600	132	Foot	Detector Loop Replacement

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
DETECTOR LOOP REPLACEMENT
IL 19 (IRVING PARK RD.) AT
JUDD AVE.
SCALE: 1" = 20'
DATE SEPT 2007
DRAWN BY: JHE
DESIGNED BY: JHE
CHECKED BY: DAD



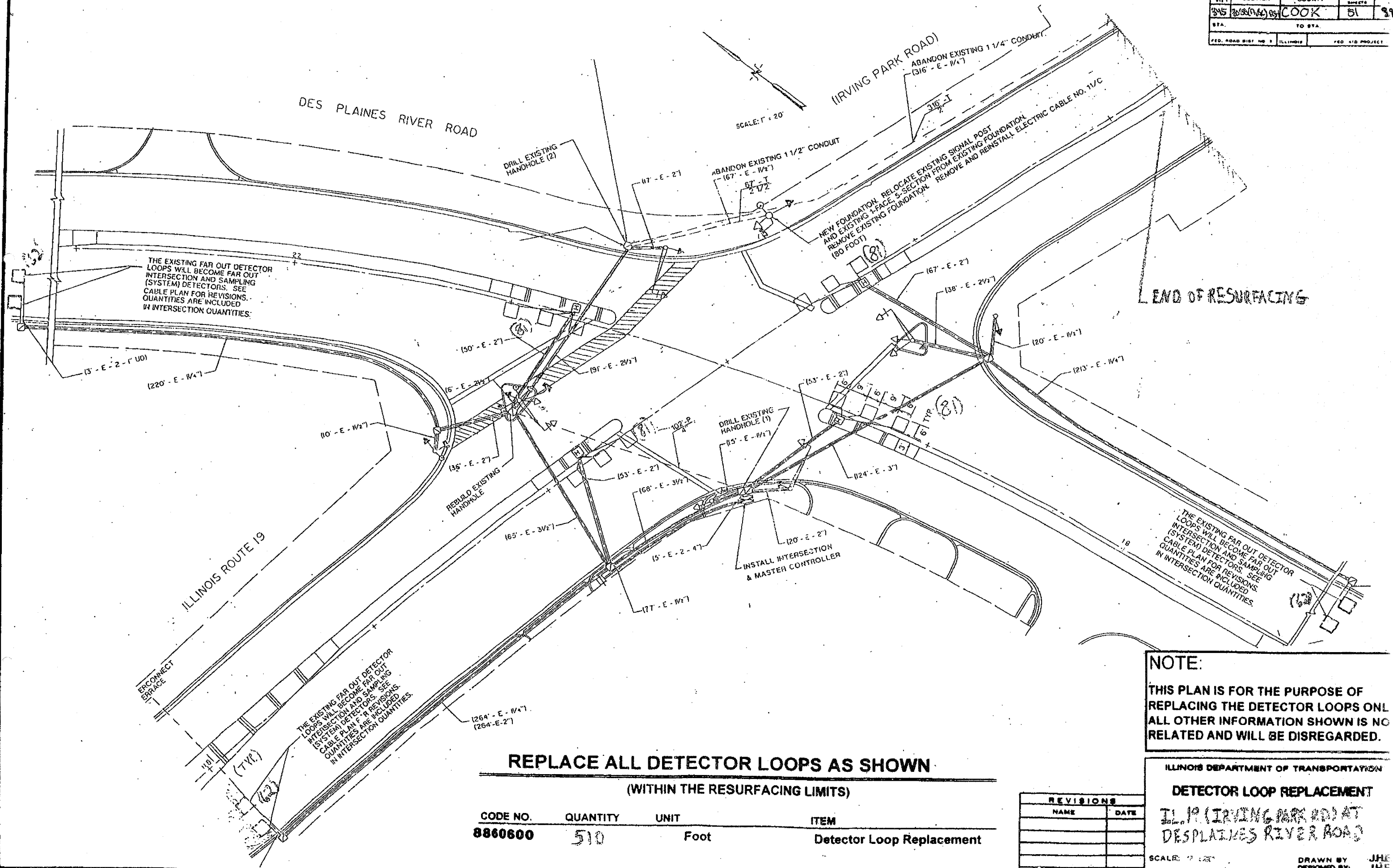
NOTE:
 THIS PLAN IS FOR THE PURPOSE OF REPLACING THE DETECTOR LOOPS ONLY ALL OTHER INFORMATION SHOWN IS NOT RELATED AND WILL BE DISREGARDED.

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

CODE NO.	QUANTITY	UNIT	ITEM
8860600	219	Foot	Detector Loop Replacement

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
DETECTOR LOOP REPLACEMENT
 IL 19 (IRVING PARK RD.) AT
 WESLEY TERRACE
 SCALE: 1" = 20'
 DATE: 5/27/2007
 DRAWN BY: JHE
 DESIGNED BY: JHE
 CHECKED BY: D.A.O.



THE EXISTING FAR OUT DETECTOR LOOPS WILL BECOME FAR OUT INTERSECTION AND SAMPLING (SYSTEM) DETECTORS. SEE CABLE PLAN FOR REVISIONS. QUANTITIES ARE INCLUDED IN INTERSECTION QUANTITIES.

END OF RESURFACING

THE EXISTING FAR OUT DETECTOR LOOPS WILL BECOME FAR OUT INTERSECTION AND SAMPLING (SYSTEM) DETECTORS. SEE CABLE PLAN FOR REVISIONS. QUANTITIES ARE INCLUDED IN INTERSECTION QUANTITIES.

THE EXISTING FAR OUT DETECTOR LOOPS WILL BECOME FAR OUT INTERSECTION AND SAMPLING (SYSTEM) DETECTORS. SEE CABLE PLAN FOR REVISIONS. QUANTITIES ARE INCLUDED IN INTERSECTION QUANTITIES.

REPLACE ALL DETECTOR LOOPS AS SHOWN

(WITHIN THE RESURFACING LIMITS)

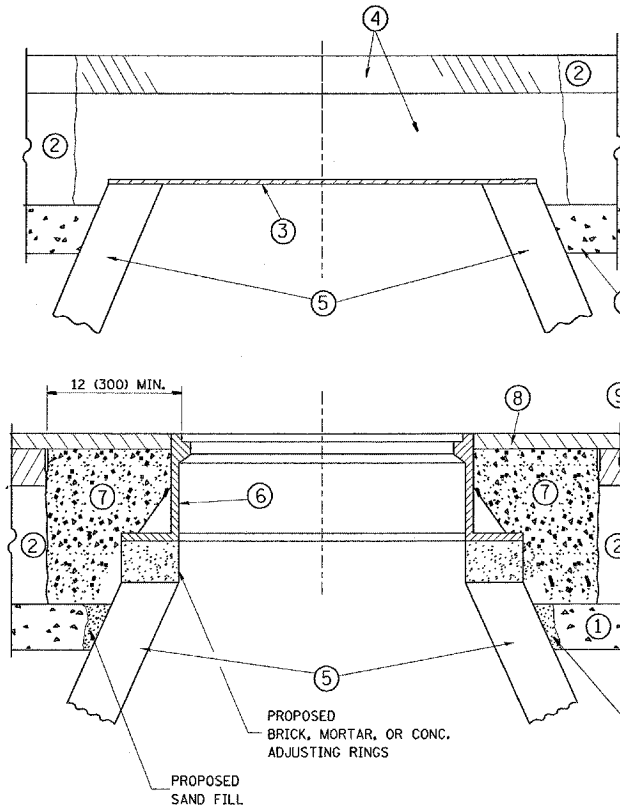
CODE NO.	QUANTITY	UNIT	ITEM
8860600	510	Foot	Detector Loop Replacement

REVISIONS	
NAME	DATE

NOTE:
THIS PLAN IS FOR THE PURPOSE OF REPLACING THE DETECTOR LOOPS ONLY. ALL OTHER INFORMATION SHOWN IS NOT RELATED AND WILL BE DISREGARDED.

ILLINOIS DEPARTMENT OF TRANSPORTATION
DETECTOR LOOP REPLACEMENT
 IL 19 (IRVING PARK RD) AT
 DESPLAINES RIVER ROAD
 SCALE: 1" = 20'
 DATE: SEPT 2007
 DRAWN BY: JHE
 DESIGNED BY: JHE
 CHECKED BY: DAI

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
345	3052(A,B,C) AS-1	COOK	51	40
STA.		TO STA.		
FED. ROAD DIST. NO. 1		ILLINOIS	FED. AID PROJECT	



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

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.

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.

DETAILS FOR FRAMES AND LIDS ADJUSTMENT WITH MILLING

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN

REVISIONS	
NAME	DATE
R. SHAH	10/25/94
R. SHAH	01/30/95
R. SHAH	03/10/95
A. ABBAS	03/21/97
R. WIEDEMAN	05/14/04
R. BORO	01/01/07

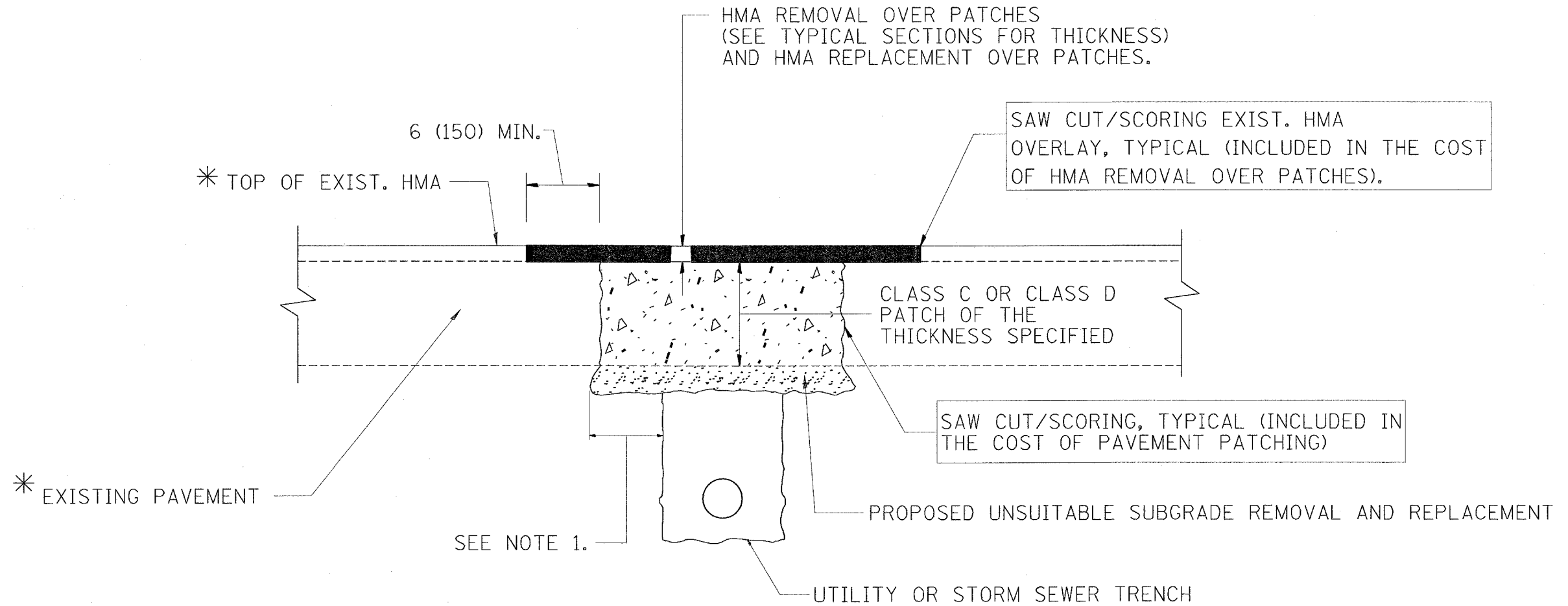
ILLINOIS DEPARTMENT OF TRANSPORTATION
DETAILS FOR
FRAMES AND LIDS ADJUSTMENT
WITH MILLING

SCALE: VERT. NONE
HORIZ. NONE

DRAWN BY
CHECKED BY

BD600-03 (BD-8)

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
345	3053(A,C)R5-1	COOK	51	41
STA.		TO STA.		
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

1. REMOVE THE EXISTING HMA MATERIAL OVER THE AREA TO BE PATCHED.
2. REMOVE AND REPLACE FULL DEPTH PATCHES
3. REPLACE HMA MATERIAL OVER THE AREA TO BE PATCHED.

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

REVISIONS	
NAME	DATE
R. SHAH	10/25/94
R. SHAH	01/14/95
R. SHAH	03/23/95
R. SHAH	04/24/95
A. HOUSEH	03/15/96
A. ABBAS	03/21/97
A. ABBAS	01/20/98
ART ABBAS	04/27/98
R. BORO	01/01/07
R. BORO	09/04/07

ILLINOIS DEPARTMENT OF TRANSPORTATION

PAVEMENT PATCHING FOR HMA SURFACED PAVEMENT

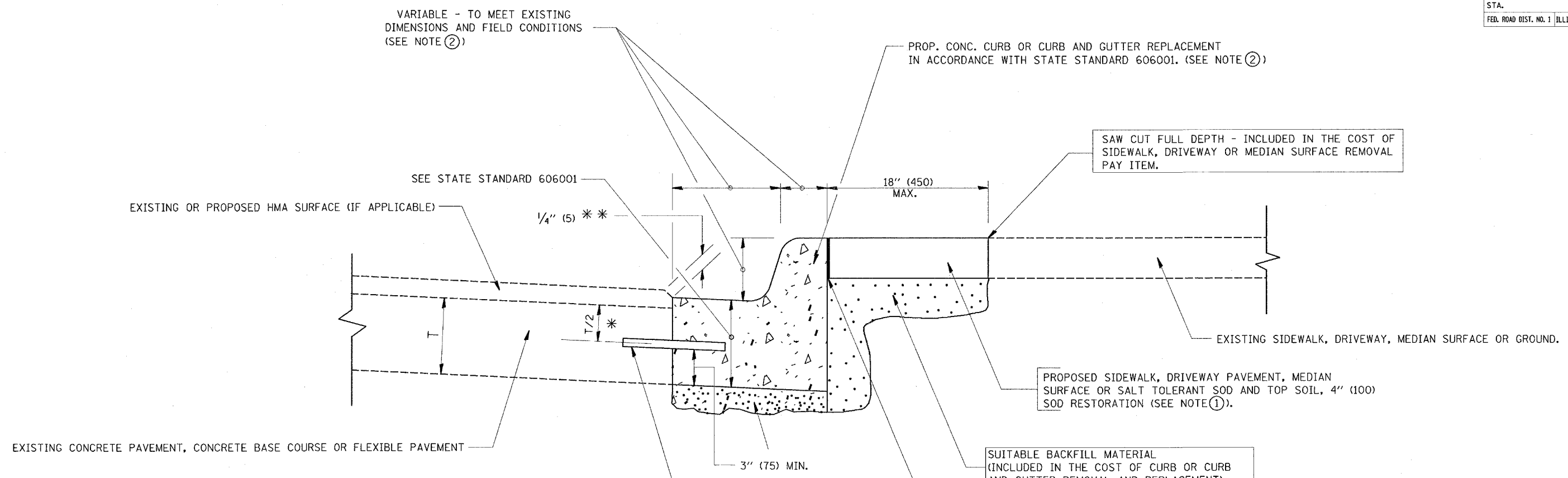
SCALE: VERT. NONE
HORIZ.

DRAWN BY

CHECKED BY

BD400-04 (BD-22)

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
345	3088(A&C)AS-1	COOK	51	42
STA.		TO STA.		
FED. ROAD DIST. NO. 1		ILLINOIS FED. AID PROJECT		



- * 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".

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

REVISIONS	
NAME	DATE
A. HOUSEH	03/11/94
R. SHAH	02/24/95
R. SHAH	03/02/95
R. SHAH	08/19/96
R. SHAH	09/12/96
R. SHAH	09/19/96
R. SHAH	10/03/96
A. ABBAS	03/21/97
M. GOMEZ	01/22/01
R. BORO	01/01/07

ILLINOIS DEPARTMENT OF TRANSPORTATION

CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT

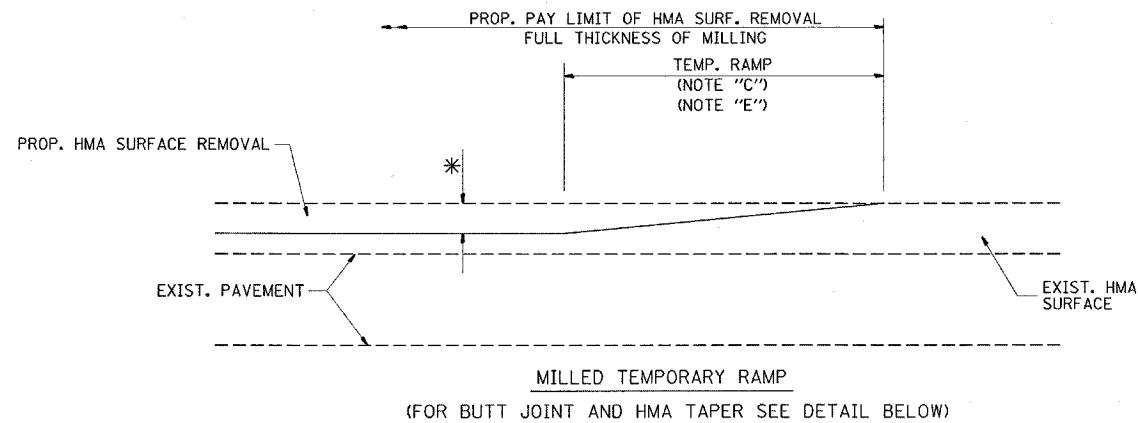
SCALE: VERT. NONE
HORIZ.

DRAWN BY
CHECKED BY
BD600-06 (BD-24)

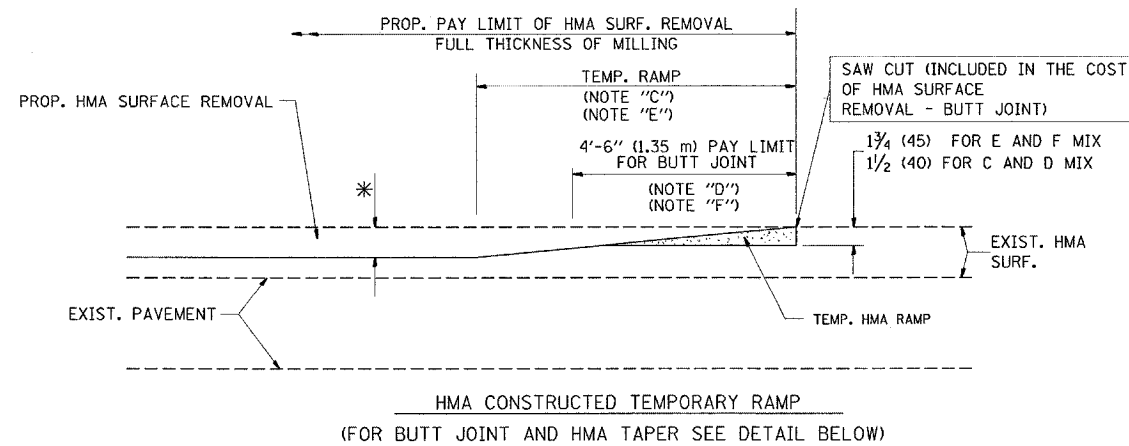
CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT

PLOT DATE = 11/6/2007
FILE NAME = W:\dss\bd24.dgn
PLOT SCALE = 52.941' / IN.
USER NAME = curshaha

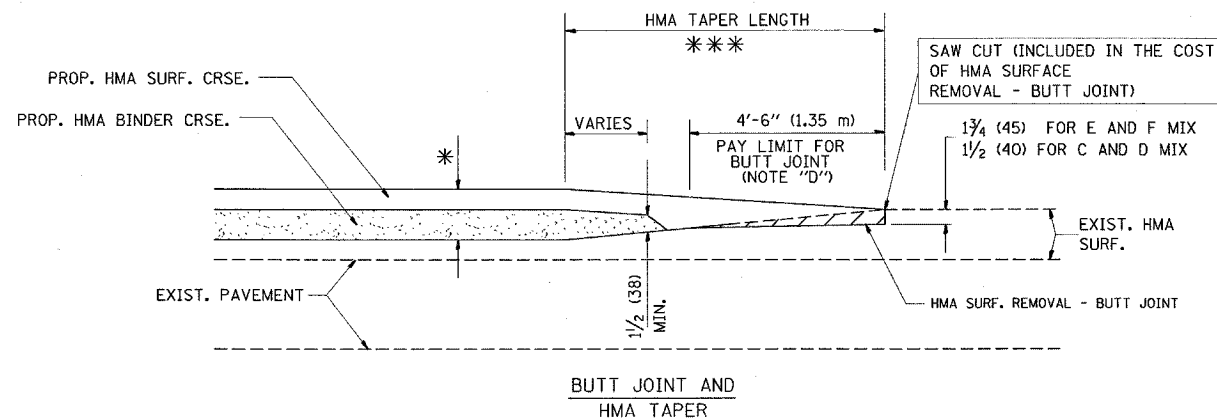
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
345	3055(A,B,C)NS-1	COOK	51	43
STA.		TO STA.		
FED. ROAD DIST. NO. 1		ILLINOIS FED. AID PROJECT		



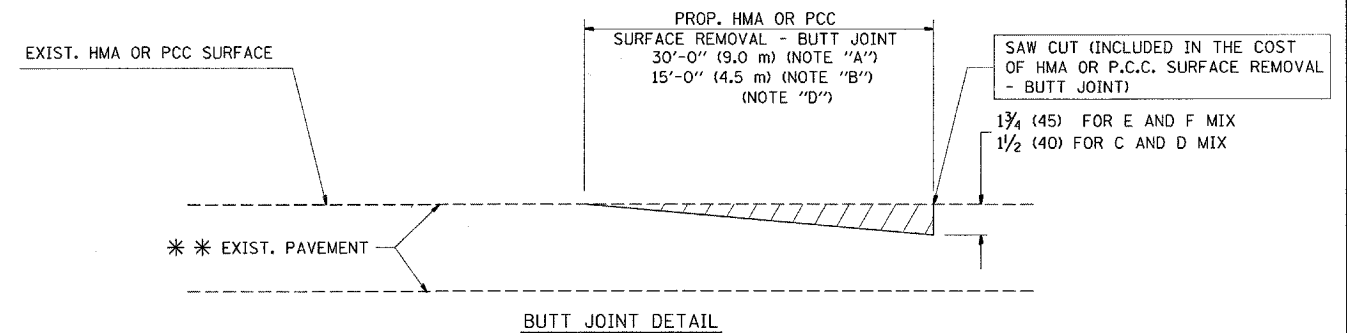
OPTION 1



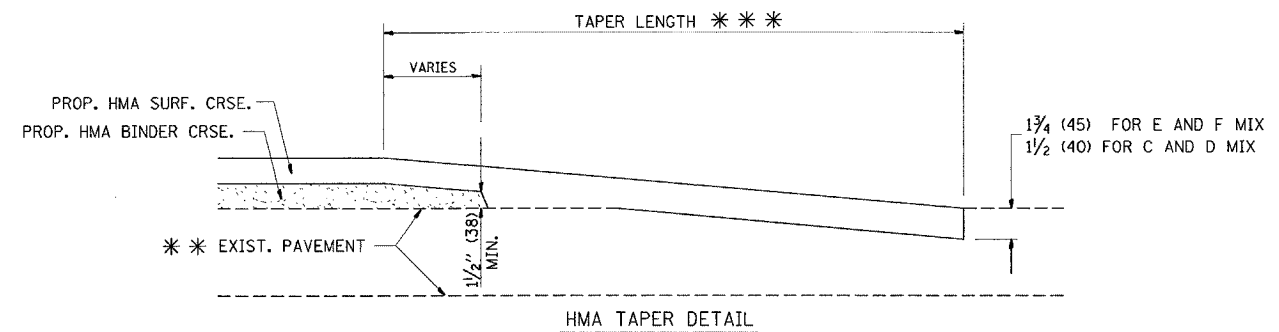
OPTION 2
TYPICAL TEMPORARY RAMP



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")

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

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".

REVISIONS	
NAME	DATE
M. DE YONG	6-13-90
M. DE YONG	7-3-90
M. DE YONG	3-27-92
R. SHAH	09/09/94
R. SHAH	10/25/94
A. ABBAS	03/21/97
M. GOMEZ	04/06/01
R. BORO	01/01/07

ILLINOIS DEPARTMENT OF TRANSPORTATION

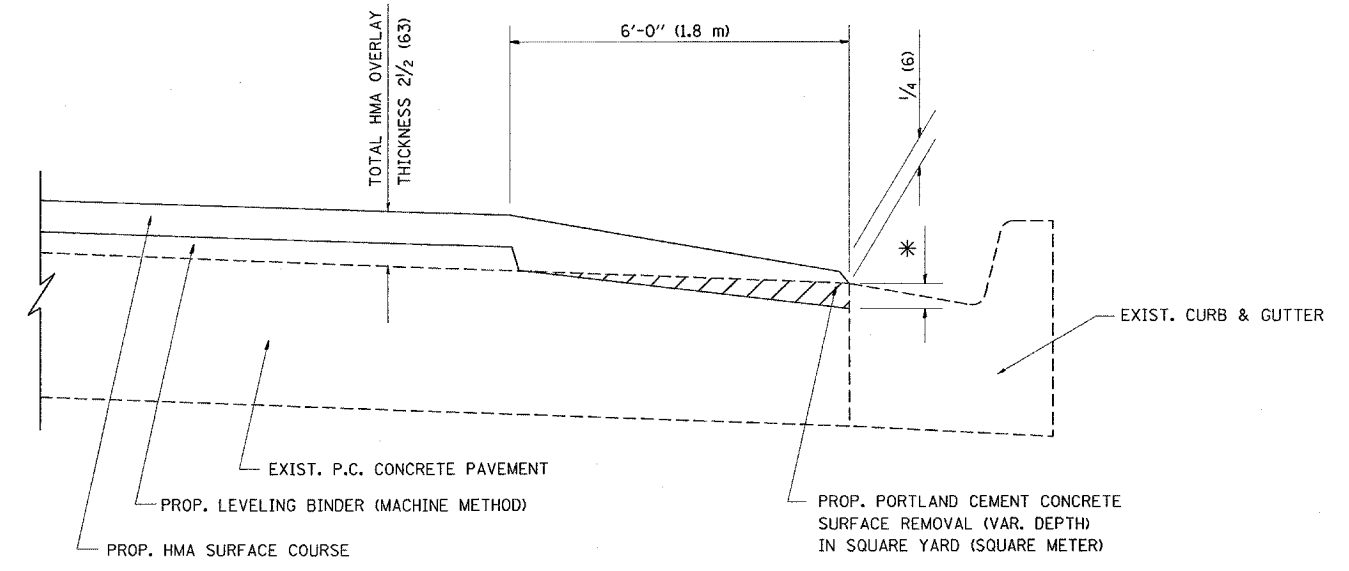
BUTT JOINT AND
HMA TAPER
DETAILS

SCALE: VERT. NONE
HORIZ.

DRAWN BY
CHECKED BY

BD400-05 (VI-BD32)

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
345	3057(1.8C)15-1	COOK	51	44
STA.		TO STA.		
FED. ROAD DIST. NO. 1		ILLINOIS	FED. AID PROJECT	



HMA TAPER AT
EDGE OF P.C.C. PAVEMENT

HMA SURFACE	LEVELING BINDER		
MIX	THICKNESS	THICKNESS	* MILLING AT GUTTER FLAG
C OR D	1 1/2 (38)	1 (25)	1/4 (33)
F	1 3/4 (44)	3/4 (19)	1/2 (38)

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

REVISIONS	
NAME	DATE
R. SHAH	09/10/94
R. SHAH	10/25/94
A. ABBAS	05/05/99
E. GOMEZ	12/21/00
R. BORO	01/01/07

ILLINOIS DEPARTMENT OF TRANSPORTATION

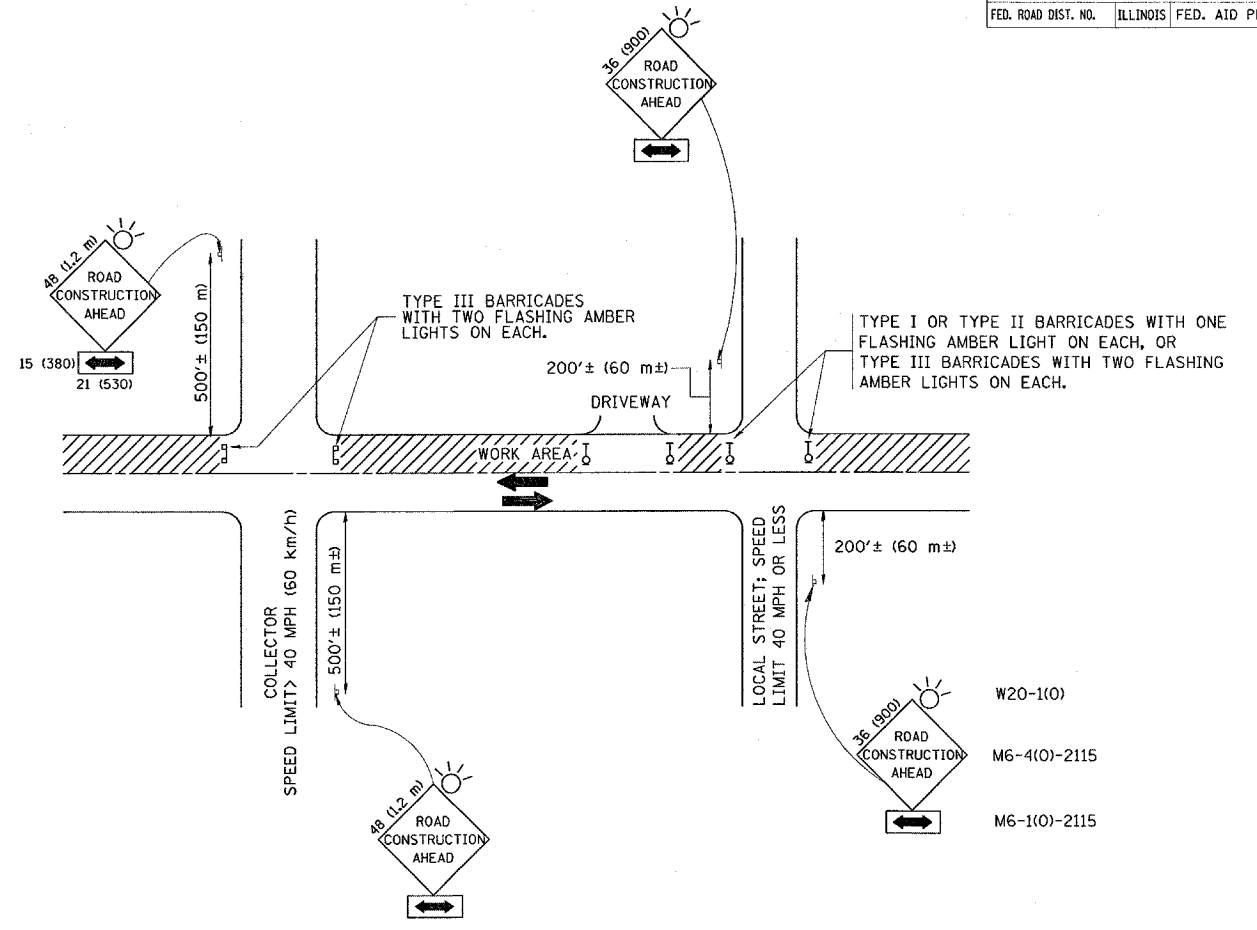
HMA TAPER AT
EDGE OF P.C.C. PAVEMENT

SCALE: VERT. NONE
HORIZ. NONE

DRAWN BY Jls
CHECKED BY A. ABBAS

PLOT DATE = 11/6/2007
FILE NAME = W:\distrack\bd33.dgn
PLOT SCALE = 52.9411 / IN.
USER NAME = qurashyjp

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
345	3055(R&C)R5-1	COOK	51	45
STA.		TO STA.		
FED. ROAD DIST. NO.		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.

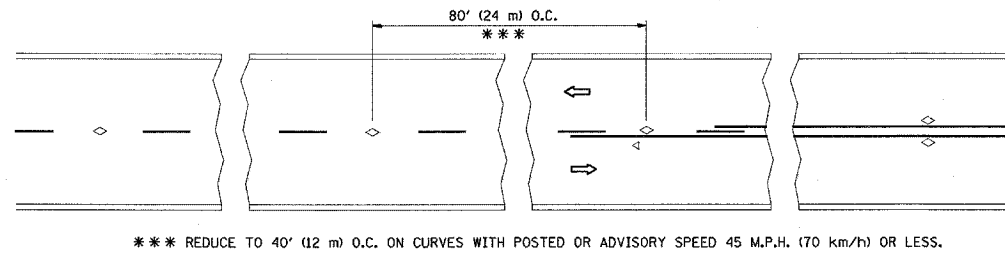
REVISIONS	
NAME	DATE
LHA	6/89
T. RAMMACHER	09/08/94
J. OBERLE	10/18/95
A. HOUSEH	03/06/96
A. HOUSEH	10/15/96
T. RAMMACHER	01/06/00

ILLINOIS DEPARTMENT OF TRANSPORTATION
TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS

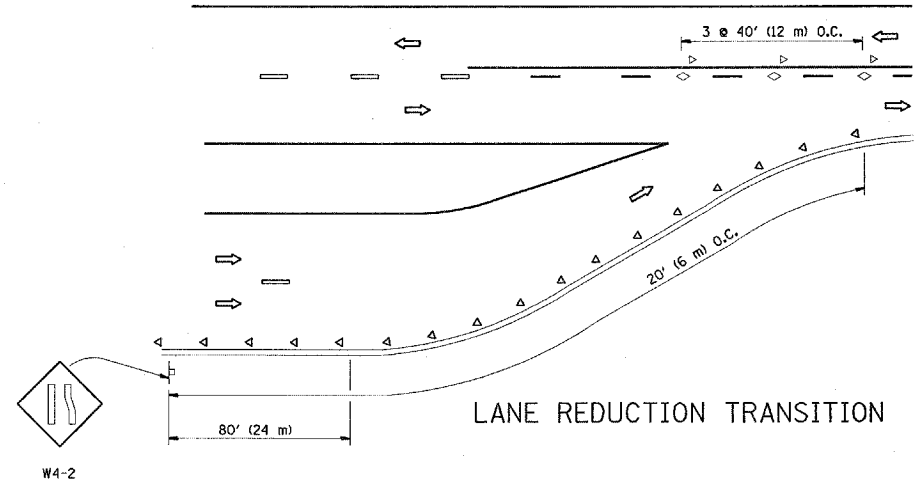
SCALE: NONE
 DRAWN BY
 CHECKED BY

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 FILE NAME = \\sds\dsc\vol08.dgn
 PLOT SCALE = 52.941 / IN.
 USER NAME = quresh@u

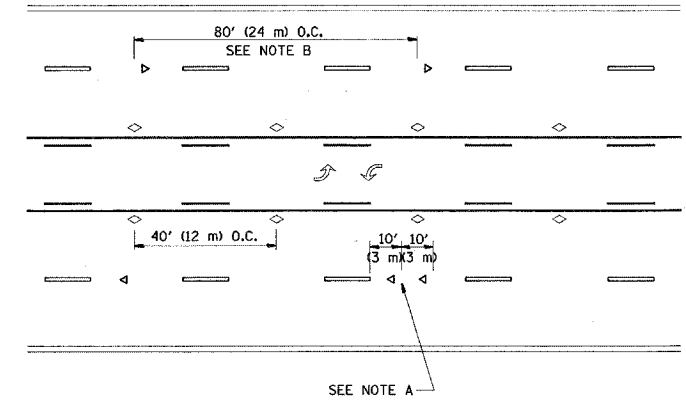
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
345	3052(A, B, C) 54	COOK	51	46
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



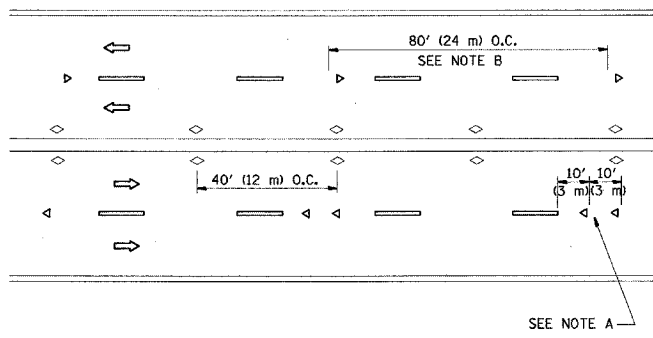
TWO-LANE/TWO-WAY



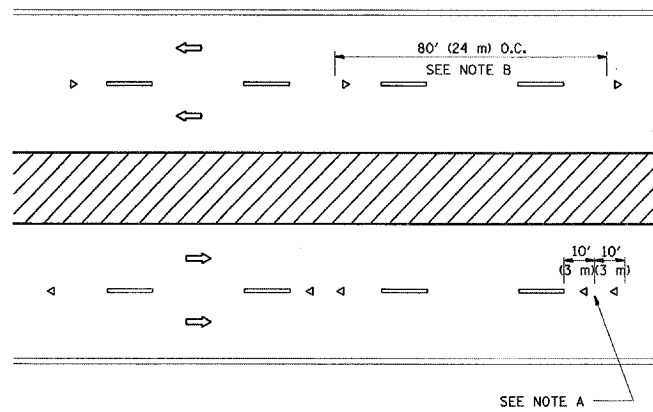
LANE REDUCTION TRANSITION



TWO-WAY LEFT TURN



MULTI-LANE/UNDIVIDED



MULTI-LANE/DIVIDED

GENERAL NOTES

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

SYMBOLS

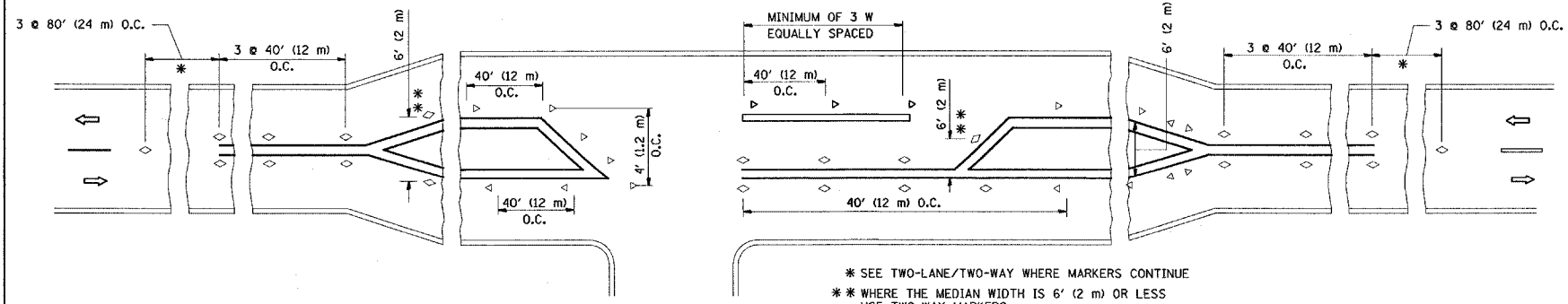
- YELLOW STRIPE
- WHITE STRIPE
- ◁ ONE-WAY AMBER MARKER
- ◁ ONE-WAY CRYSTAL MARKER (W/O)
- ◇ TWO-WAY AMBER MARKER

LANE MARKER NOTES

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

DESIGN NOTES

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



LEFT TURN

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

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

REVISIONS	
NAME	DATE
T. RAMMACHER	09-19-94
T. RAMMACHER	03-12-99
T. RAMMACHER	01-06-00

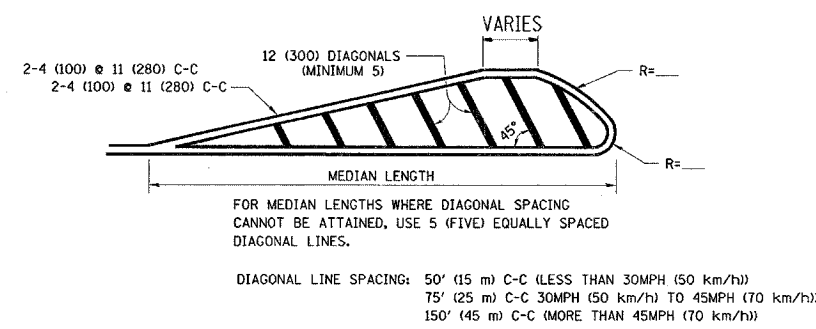
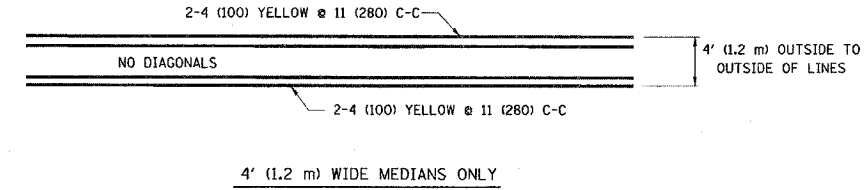
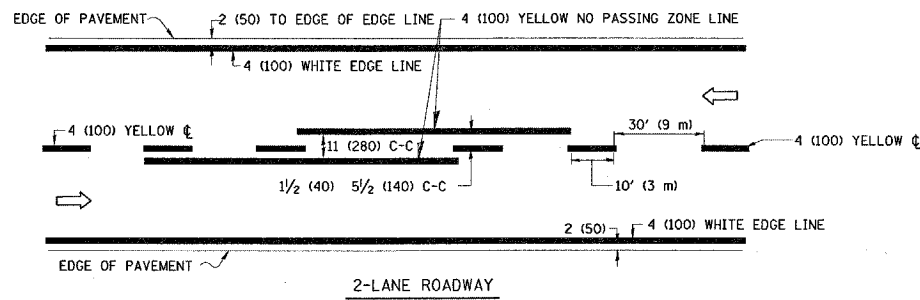
ILLINOIS DEPARTMENT OF TRANSPORTATION
 TYPICAL APPLICATIONS
 RAISED REFLECTIVE PAVEMENT
 MARKERS (SNOW-PLOW RESISTANT)

SCALE: NONE

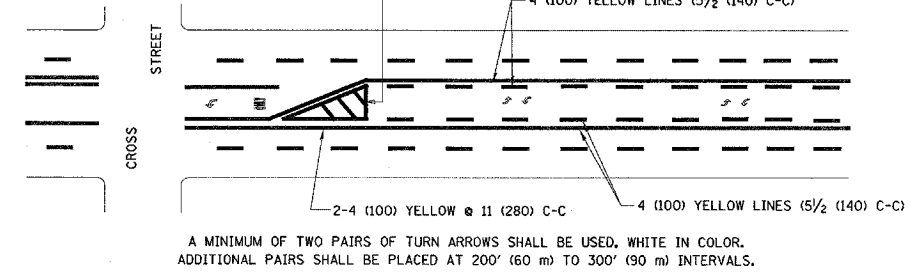
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 CHECKED BY
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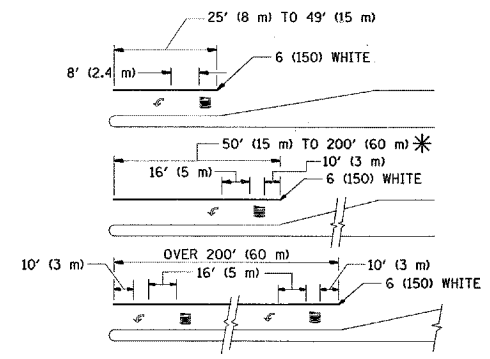
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
345	3058(A,B,C)AS-1	COOK	51	47
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



MEDIANS OVER 4' (1.2 m) WIDE



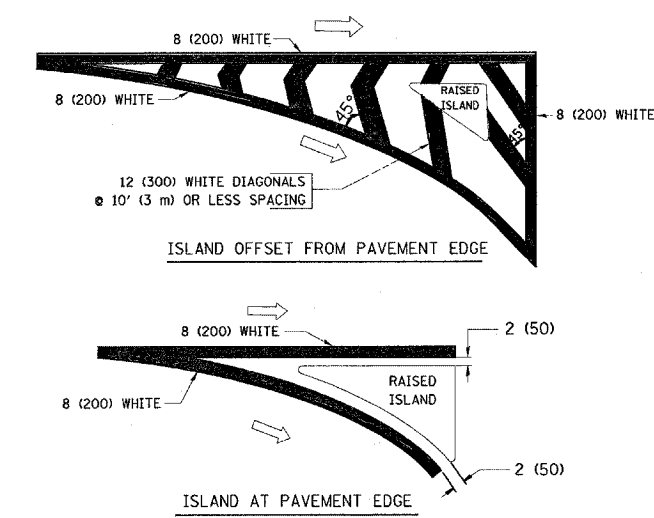
TYPICAL PAINTED MEDIAN MARKING



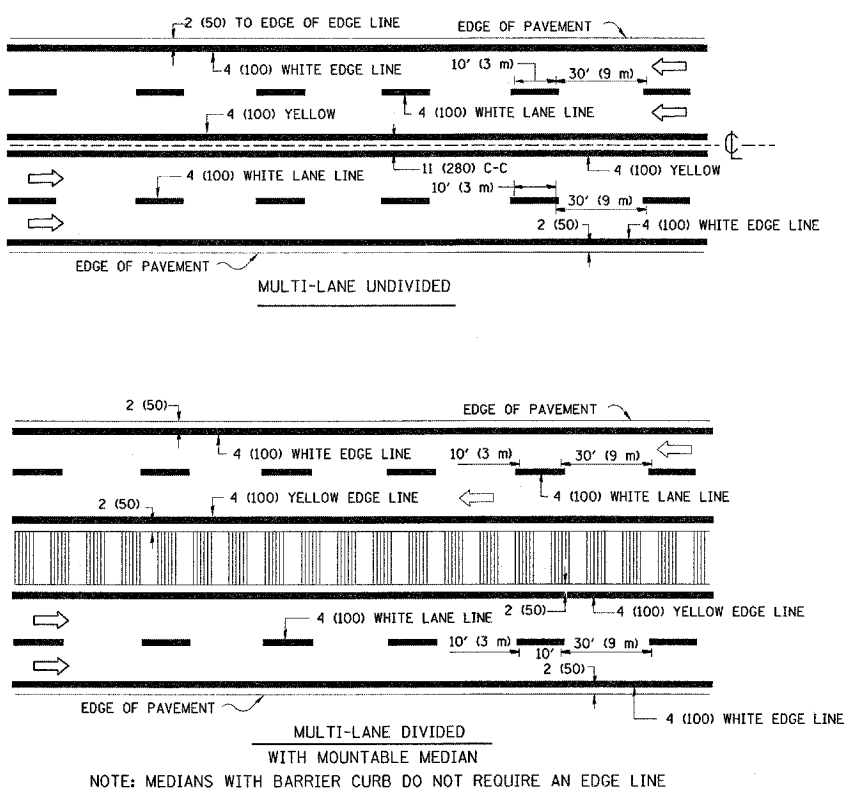
FULL SIZE LETTERS 8' (2.4 m) AND ARROWS SHALL BE USED.
AREA = 15.6 SQ. FT. (1.5 m²) ONLY AREA = 20.8 SQ. FT. (1.9 m²)

* 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".

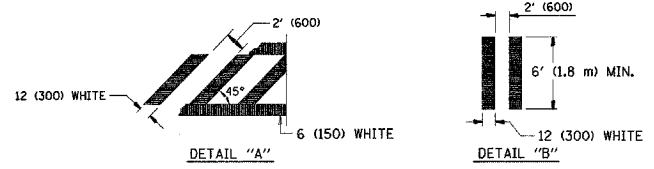
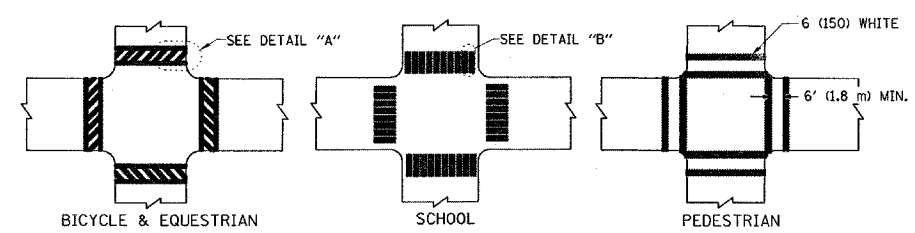
TYPICAL LEFT (OR RIGHT) TURN LANE MARKING



TYPICAL ISLAND MARKING



TYPICAL LANE AND EDGE LINE MARKING



TYPICAL CROSSWALK 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: "RR"=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.

REVISIONS	
NAME	DATE
EVERS	03-19-90
T. RAMMACHER	10-27-94
ALEX HOUSEH	10-09-96
ALEX HOUSEH	10-17-96
T. RAMMACHER	01-06-00

ILLINOIS DEPARTMENT OF TRANSPORTATION

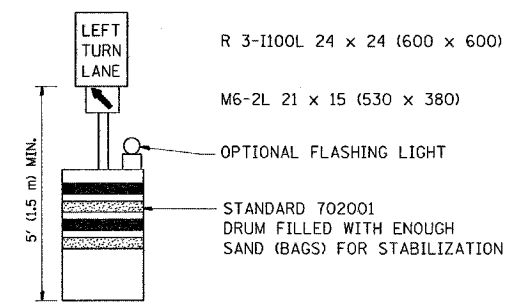
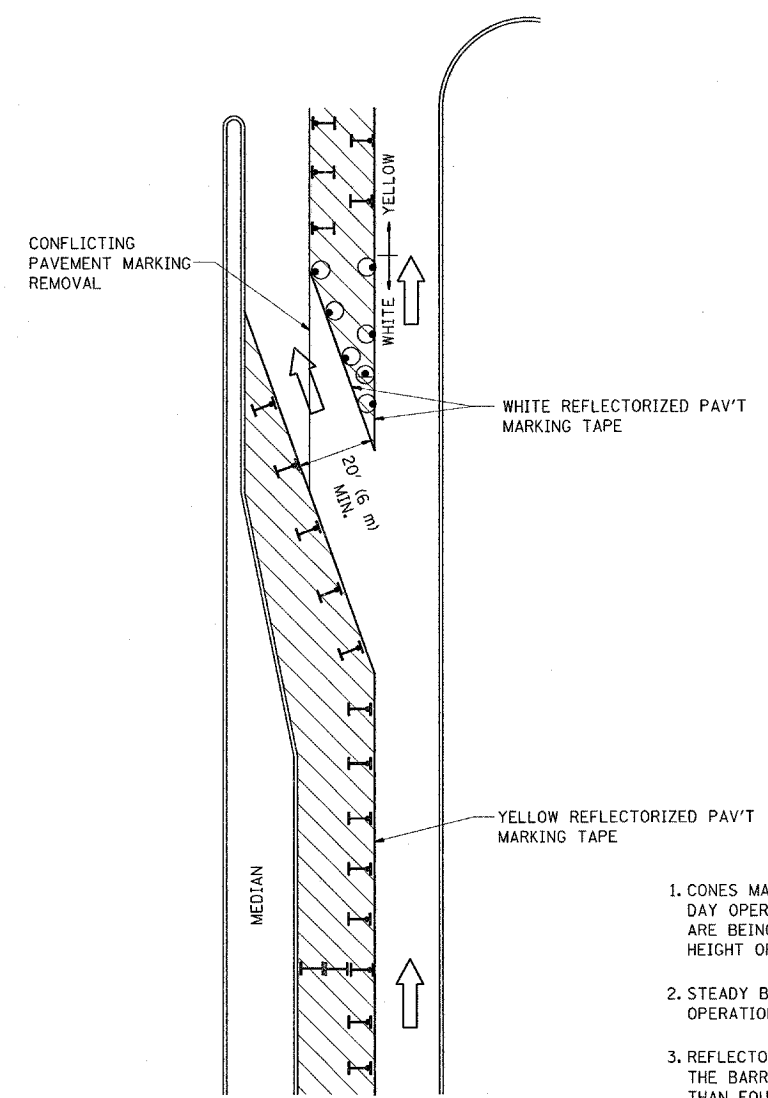
DISTRICT ONE

TYPICAL PAVEMENT MARKINGS

SCALE: NONE

DRAWN BY CADD
CHECKED BY

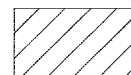





F.A.R. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
345	3088(R&C)AS-1	COOK	51	48
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



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.

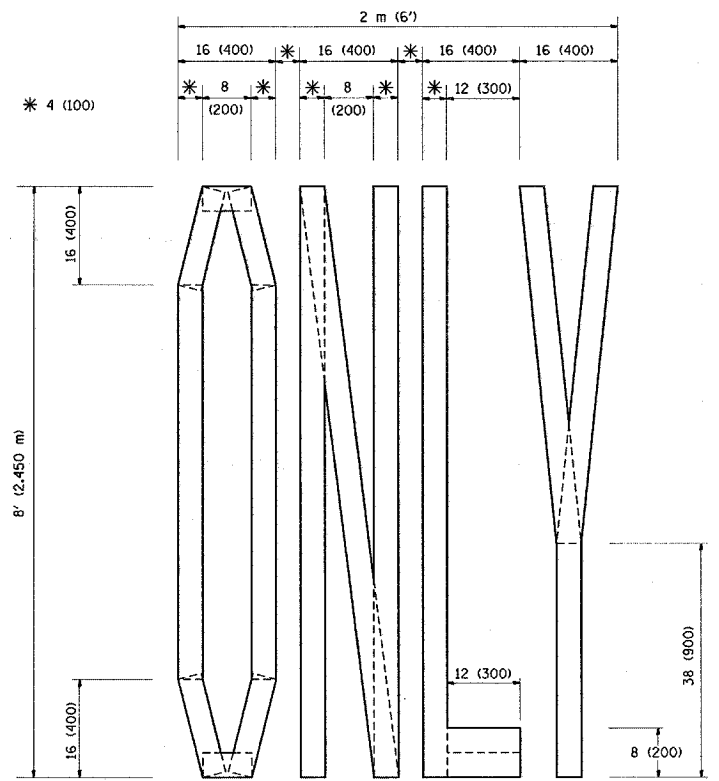
REVISIONS	
NAME	DATE
T. RAMMACHER	09/08/94
A. HOUSEH	11/07/95
A. HOUSEH	10/12/96
T. RAMMACHER	01/06/00

ILLINOIS DEPARTMENT OF TRANSPORTATION
TRAFFIC CONTROL AND PROTECTION AT TURN BAYS (TO REMAIN OPEN TO TRAFFIC)

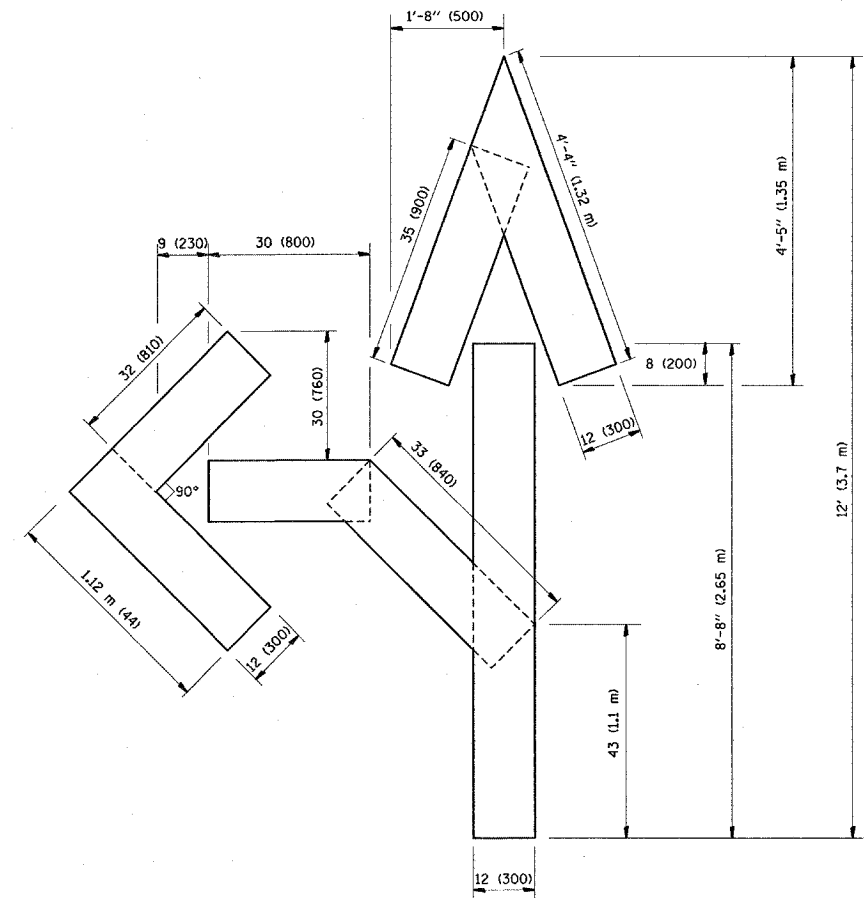
SCALE: NONE
 DRAWN BY
 CHECKED BY LHA
 TC-14

PLOT DATE = 11/6/2007
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 USER NAME = gurenhjg

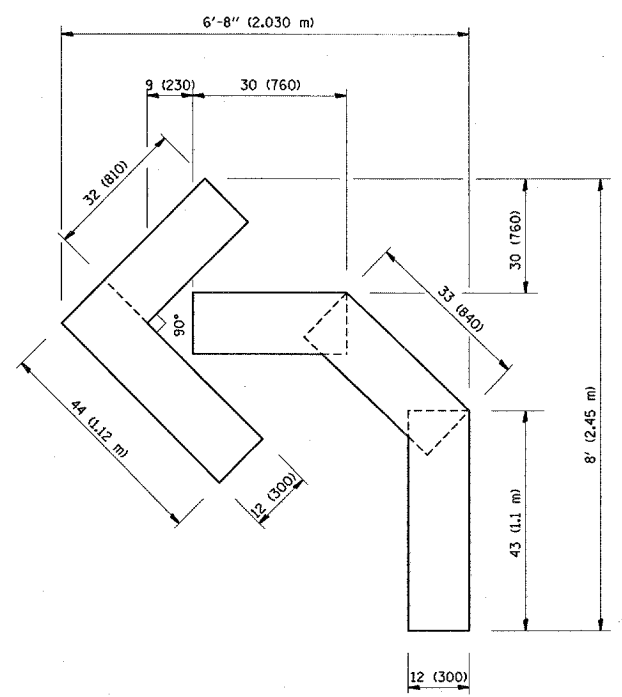
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
343	3058 (A-C) AS-1	COOK	51	49
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		



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.

REVISIONS	
NAME	DATE
T. RAMMACHER	09/18/94
J. OBERLE	06/01/96
T. RAMMACHER	06/05/96
T. RAMMACHER	11/04/97
T. RAMMACHER	03/02/98
E. GOMEZ	08/28/00

ILLINOIS DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING
 LETTERS AND SYMBOLS
 FOR TRAFFIC STAGING

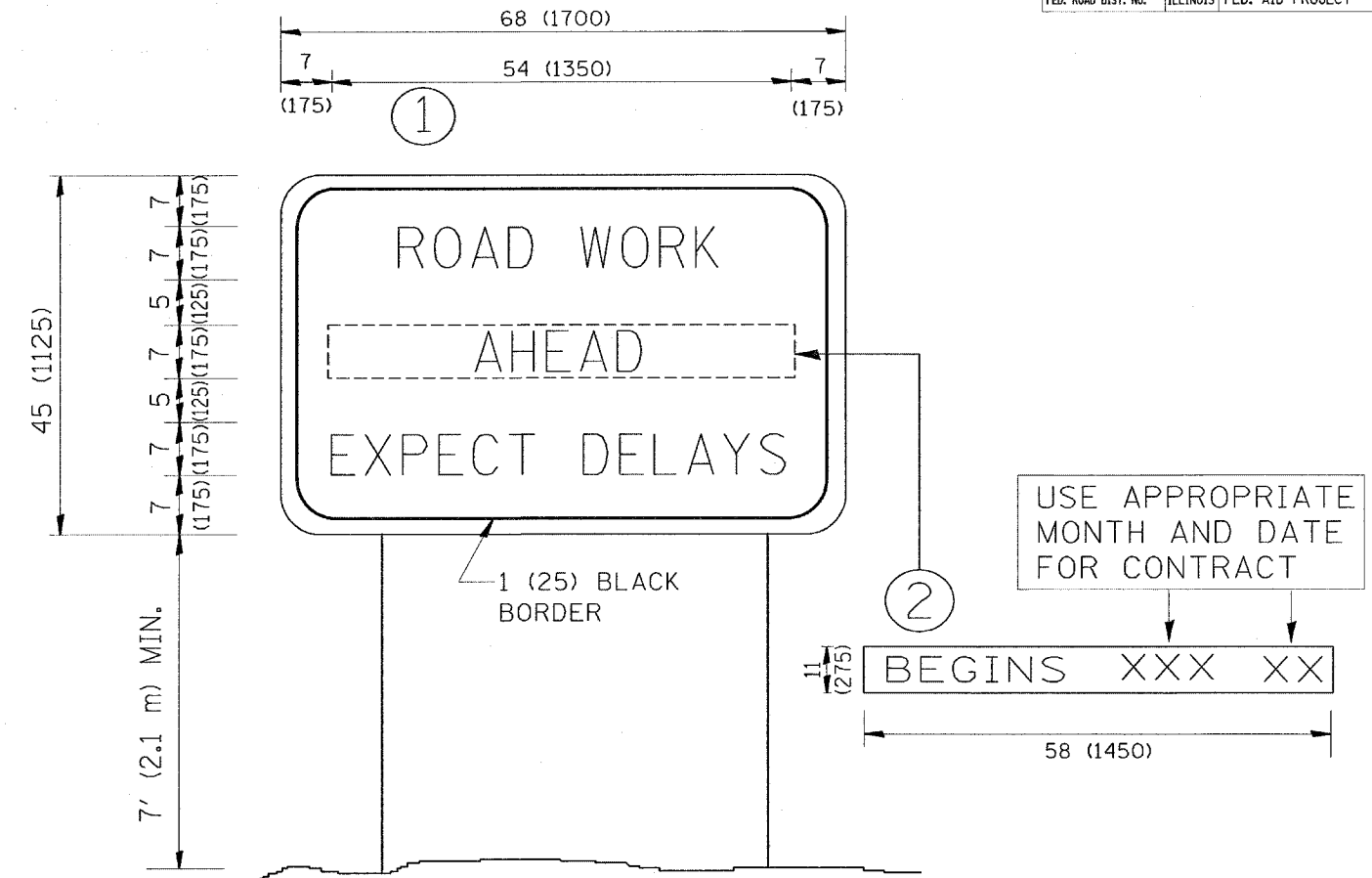
SCALE: NONE

DRAWN BY CADD

CHECKED BY
 TC-16

PLOT DATE = 11/6/2007
 FILE NAME = h:\projects\vol16.dgn
 PLOT SCALE = 82.9411 / IN.
 USER NAME = gueshaya

F.A. #	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
345	605 (R.O.C) 051	COOK	51	50
STA.		TO STA.		
FED. ROAD DIST. NO.	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.

REVISIONS	
NAME	DATE
R. MIRS	9-15-97
R. MIRS	12-11-97
T. RAMMACHER	2-2-99
C. JUICIUS	1-31-07

ILLINOIS DEPARTMENT OF TRANSPORTATION

ARTERIAL ROAD INFORMATION SIGN

SCALE: NONE

DRAWN BY DESIGN

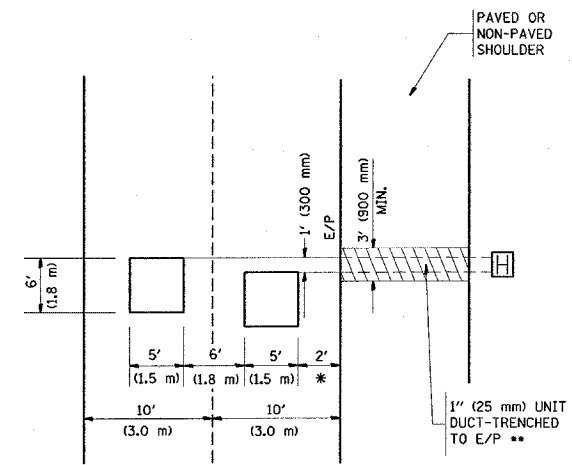
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TC22

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
345	2058(60C52)	COOK	51	51
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			

LOOPS NEXT TO SHOULDERS

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

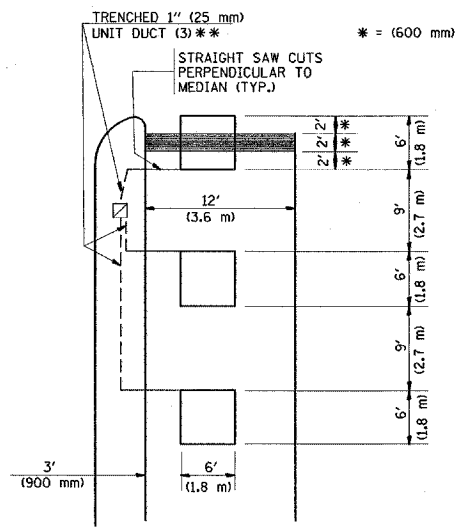


* = (600 mm)

** 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)**

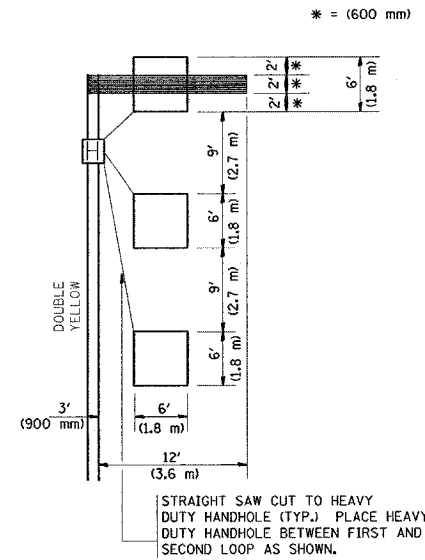
HANDHOLE LOCATION MAY VARY DEPENDING ON GEOMETRICS AND DESIGN OF TRAFFIC SIGNALS. HEAVY-DUTY HANDHOLES TO BE USED WHEN THE MEDIAN IS MOUNTABLE. REFER TO STANDARD 814001 TO ENSURE THAT HANDHOLE FITS IN MEDIAN.



** 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)**



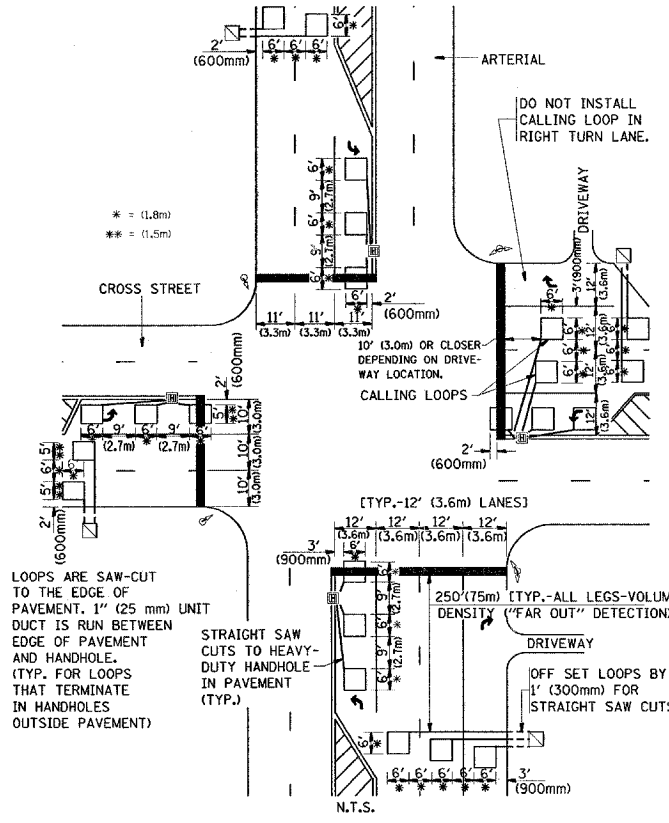
NOTE: DUAL LEFT TURNS NOT SHOWN REFER TO PLAN SHEET FOR DETECTOR LOOP REPLACEMENT

NOTES:

VEHICLES LOOP DETECTORS

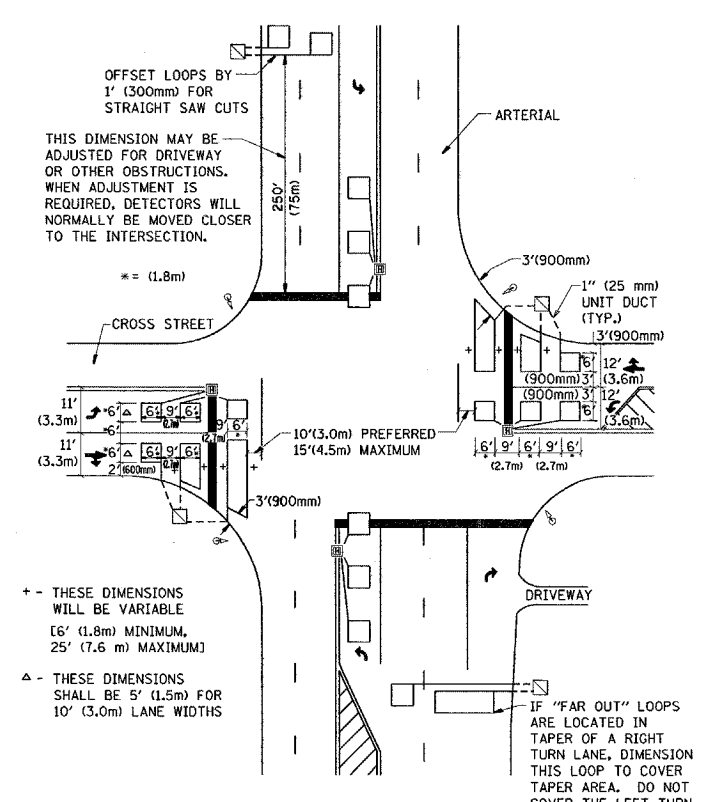
- * ALL LEAD IN CABLE SHALL BE TWO CONDUCTOR NO. 14 TWISTED, SHIELDED.
- * EACH DETECTOR LOOP SHALL HAVE ITS OWN SAW CUT FROM THE LOOP TO THE EDGE OF PAVEMENT OR TO A HANDHOLE IN THE PAVEMENT.
- * EACH DETECTOR LOOP SHALL HAVE ITS OWN ONE INCH (25 mm) UNIT DUCT BETWEEN THE EDGE OF PAVEMENT AND THE FIRST 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.

**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.

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.

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
DISTRICT 1
DETECTOR LOOP
INSTALLATION DETAILS
FOR ROADWAY RESURFACING
DESIGNED BY
DRAWN BY CADD
CHECKED BY R.K.F.
TS07

PLOT DATE = 11/6/2007
PLOT SCALE = 5/8" = 1' / IN.
USER NAME = qreahy