

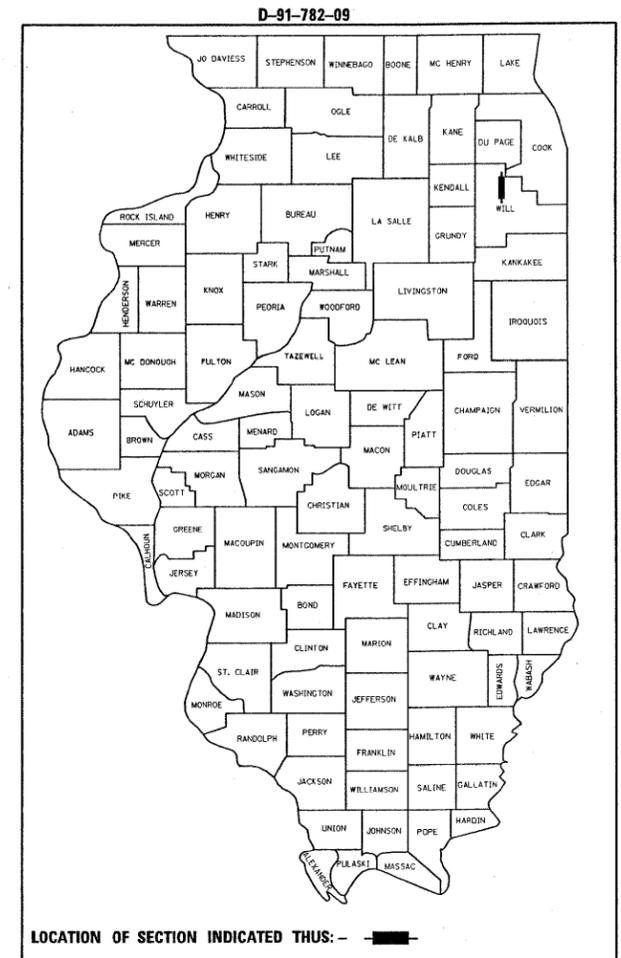
| F.A.P. RTE. | SECTION    | COUNTY   | TOTAL SHEETS       | SHEET NO. |
|-------------|------------|----------|--------------------|-----------|
| 856         | 28X-3 RS-1 | WILL     | 28                 | 1         |
|             |            | ILLINOIS | CONTRACT NO. 60H74 |           |

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS  
**PROPOSED  
HIGHWAY PLANS**

FOR INDEX OF SHEETS, SEE SHEET NO. 2

**THE PROJECT IS LOCATED IN THE CITY  
OF JOLIET AND VILLAGE OF CREST HILL**

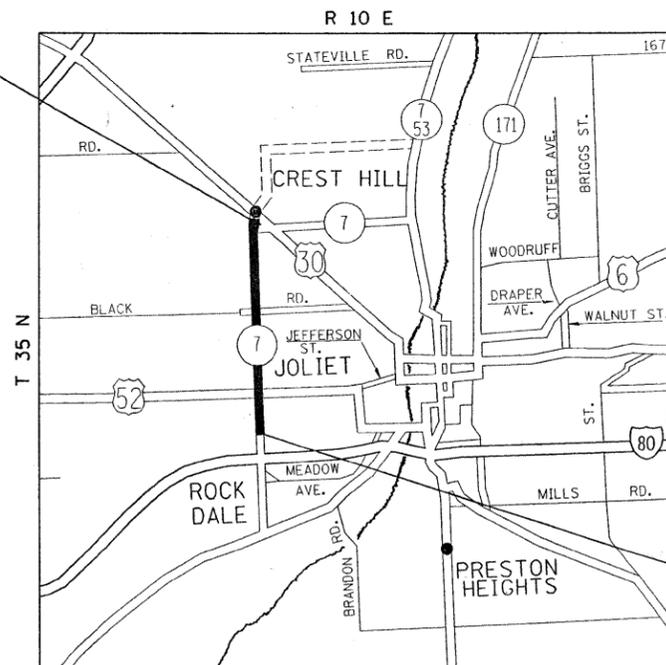
FAP ROUTE 856: IL 7 (LARKIN AVE)  
HILLCREST SHOPPING CENTER TO MCDONOUGH ST.  
SECTION: 28X-3 RS-1  
RESURFACING  
PROJECT: *ESP-0856(025)*  
WILL COUNTY  
C-91-782-09



LOCATION OF SECTION INDICATED THIS: - [black rectangle] -

TRAFFIC DATA:  
2007 ADT = 34400  
POSTED SPEED LIMIT = 35-40 MPH

PROJECT BEGINS  
STA. 149+37



PROJECT ENDS  
STA. 9+30

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 ROBERT BORO (847) 705-4178  
PROJECT MANAGER KEN ENG

CONTRACT NO. 60H74

GROSS LENGTH AND NET LENGTH OF PROJECT = 14007 FT. = 2.647 MILE

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS

SUBMITTED *June 25* 20 *09*

*Dina O'Keefe*  
DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER

*August 14, 20 09*  
*Charles J. Ingersoll*  
ENGINEER OF DESIGN AND ENVIRONMENT

*August 14, 20 09*  
*Christine M. Reed*  
DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

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

STATE STANDARDS

GENERAL NOTES

INDEX OF SHEETS

|       |   |
|-------|---|
| 1     | TITLE SHEET   |
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| 12-18 | DETECTOR LOOP REPLACEMENT PLAN  |
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| 28    | DISTRICT 1 DETECTOR LOOP INSTALLATION DETAILS FOR ROADWAY RESURFACING (TS-07)         |

|           |   |
|-----------|---|
| 442201-03 | CLASS C AND D PATCHES   |
| 604001-03 | FRAME AND LIDS TYPE 1   |
| 606001-04 | CONCRETE CURB AND COMBINATION CURB AND GUTTER                                 |
| 701426-03 | LANE CLOSURE, MULTILANE, INTERMITTENT OR MOVING OPERATIONS FOR SPEED ≥ 45 MPH |
| 701606-00 | URBAN LANE CLOSURE, MULTILANE, 2W WITH MOUNTABLE MEDIAN                       |
| 701701-00 | URBAN LANE CLOSURE, MULTILANE INTERSECTION                                    |
| 701901-01 | TRAFFIC CONTROL DEVICES   |
| 780001-02 | TYPICAL PAVEMENT MARKINGS   |

BEFORE STARTING ANY EXCAVATION, THE CONTRACTOR SHALL CALL "JULIE" AT 800-892-0123 or 811 FOR FIELD LOCATIONS OF BURIED ELECTRIC, TELEPHONE AND GAS FACILITIES. (48 HOUR NOTIFICATION IS REQUIRED)

THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES, CITY OF JOLIET AND THE VILLAGE CREST HILL.

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

WHEN MILLED PAVEMENT IS OPEN TO TRAFFIC THE MAXIMUM GRADE DIFFERENTIAL BETWEEN PASSES OF THE MILLING MACHINE SHALL NOT EXCEED 1 1/2 INCHES (40 MM) WHERE THE SPEED LIMIT IS 40 MPH (80 KM/H) OR LESS AND 1 INCH (25 MM) WHERE THE SPEED LIMIT IS GREATER THAN 45 MPH (80 KM/H). WITH WRITTEN APPROVAL FROM THE ENGINEER, A MAXIMUM GRADE DIFFERENTIAL OF 3 INCHES (75 MM) MAY BE ALLOWED IF THE EDGE OF THE MILLING IS SLOPED A MINIMUM 1:3 (V:H).

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

UNLESS OTHER CONDITIONS WARRANT EXTENDED LANE CLOSURE AS DETERMINED AND APPROVED IN WRITING BY THE ENGINEER OR AS PROVIDED FOR IN THE CONTRACT SPECIFICATIONS, OVERNIGHT CLOSURES SHALL NOT BE ALLOWED FOR REHABILITATION PROJECTS INVOLVING DAYTIME MILLING AND RESURFACING OPERATIONS AND CLASS D PATCHING.

THE RESIDENT ENGINEER SHALL CONTACT MS. CORA MATHIS AREA TRAFFIC FIELD ENGINEER AT (815) 485-6475 A MINIMUM OF 2 WEEKS PRIOR TO PLACEMENT OF PERMANENT PAVEMENT MARKING.

BEFORE BEGINING ANY WORK, THE CONTRACTOR SHALL RETAIN AND RECORD FOR FUTURE REFERANCE, ALL EXISTING PAVEMENT MARKING LINES (AND RAISED REFLECTIVE PAVEMENT MARKINGS) 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 DAMAGE TO EXISTING PAVEMENT MARKINGS OR RAISED REFLECTIVE PAVEMENT MARKINGS OUTSIDE THE REMOVAL LINE SHOWN ON THE PLANS SHALL BE REPLACED AT NO ADDITIONAL COST TO THE DEPARTMENT.

PAVEMENT MARKING TAPE, TYPE III SHALL BE USED FOR SHORT TERM PAVEMENT MARKINGS ON ALL FINAL SURFACES. THE COST OF THE PAVEMENT MARKING TAPE, TYPE III AND ITS REMOVAL SHALL BE INCLUDED IN THE COST OF SHORT TERM PAVEMENT MARKING.

THE CONTRACTOR SHALL CONTACT THE DISTRICT ONE TRAFFIC CONTROL SUPERVISOR AT (847) 705-4470. A MINIMUM OF 72 HOURS IN ADVANCE OF BEGINING OF WORK.

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

LOCATION OF COMBINATION CONCRETE CURB AND GUTTER REMOVAL AND COMBINATION CURB AND GUTTER (THE TYPE SPECIFIED ON THE PLANS), WILL BE DETERMINED IN THE FIELD BY THE BY THE ENGINEER.

DRAINAGE ADJUSTMENT OR RECONSTRUCTION LOCATIONS WILL BE DETERMINED IN THE FIELD BY THE ENGINEER.

IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL DIMENSIONS AND CONDITIONS EXISITING IN THE FIELD PRIOR TO CONSTRUCTION AND ORDERING OF MATERIALS.

THE CONTRACTOR SHALL BE REQUIRED TO PROVIDE ACCESS TO ABUTTING PROPERTY ALL TIMES DURING THE CONSTRUCTION OF THIS PROJECT.

DO NOT SCALE PLANS FOR CONSTRUCTION DIMENSIONS.

DOUBLE LANE MARKERS ARE TO BE USED AS SHOWN ON THE DISTRICT ONE DETAIL "TYPICAL APPLICATIONS - RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT)" SHOWN IN THE PLANS.

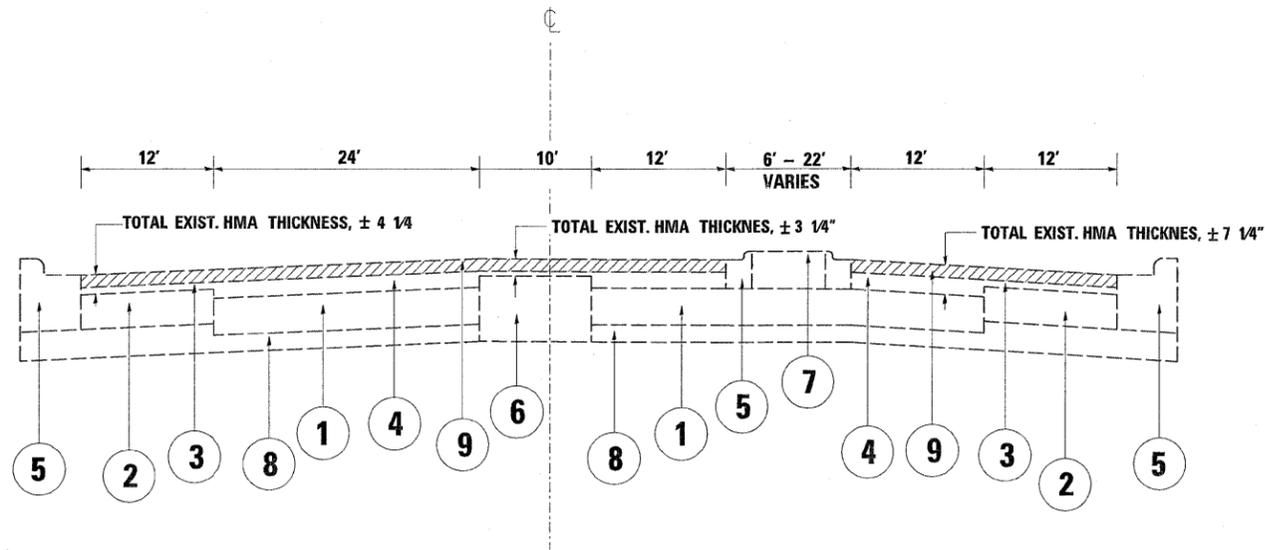
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|---|------------------------|------------|-----------|---|--|-----------------------------|------------|--------------------------|--------------|-----------|--|
| FILE NAME =   | USER NAME = estumablek | DESIGNED - | REVISED - | <b>STATE OF ILLINOIS<br/>DEPARTMENT OF TRANSPORTATION</b> | <b>IL 7 (LARKIN AVE.) [HILLCREST SHOPPING CENTER TO MCDONOUGH]<br/>INDEX OF SHEET, STATE STANDARDS &amp; GENERAL NOTES</b> | F.A.P. RTE.                 | SECTION    | COUNTY                   | TOTAL SHEETS | SHEET NO. |  |
| ct\p\work\PW1001\ESTIMABLEK\08145897\078201\sh-t-plan.dgn |                        | DRAWN -    | REVISED - |   |  | 856                         | 28X-3 RS-1 | WILL                     | 28           | 2         |  |
| PLOT SCALE = 50.0000' / IN.                               |                        | CHECKED -  | REVISED - |   |  | CONTRACT NO. 60H74          |            |                          |              |           |  |
| PLOT DATE = 6/25/2009                                     |                        | DATE -     | REVISED - |   |  | [ILLINOIS] FED. AID PROJECT |            |                          |              |           |  |
|   |                        |            |           |   | SCALE:   | SHEET NO. 1 OF 1 SHEET      |            | STA. 9+30 TO STA. 149+37 |              |           |  |

| SUMMARY OF QUANTITIES |   |        | URBAN<br>100% FED.  | CONSTRUCTION TYPE CODE: I000-2A |        |  |  |  | SUMMARY OF QUANTITIES |   |       | URBAN<br>100% FED.  | CONSTRUCTION TYPE CODE: I000-2A |        |  |  |  |
|-----------------------|---|--------|---------------------|---------------------------------|--------|--|--|--|-----------------------|---|-------|---------------------|---------------------------------|--------|--|--|--|
| CODE NO               | ITEM  | UNIT   | TOTAL<br>QUANTITIES | LOC. 1                          | LOC. 2 |  |  |  | CODE NO               | ITEM  | UNIT  | TOTAL<br>QUANTITIES | LOC. 1                          | LOC. 2 |  |  |  |
| 40600200              | BITUMINOUS MATERIALS (PRIME COAT)                               | TON    | 82                  | 64                              | 18     |  |  |  | 70300260              | TEMPORARY PAVEMENT MARKING<br>- LINE 12"                      | FOOT  | 2161                | 1649                            | 512    |  |  |  |
| 40600300              | AGGREGATE (PRIME COAT)  | TON    | 406                 | 318                             | 88     |  |  |  | 70300280              | TEMPORARY PAVEMENT MARKING<br>- LINE 24"                      | FOOT  | 997                 | 773                             | 224    |  |  |  |
| 40600400              | MIXTURE FOR CRACKS, JOINTS,<br>AND FLANGEWAYS                   | TON    | 152                 | 119                             | 33     |  |  |  | * 78000100            | THERMOPLASTIC PAVEMENT MARKING<br>- LETTERS AND SYMBOLS       | SO FT | 1915.7              | 1339.9                          | 575.8  |  |  |  |
| 40600895              | CONSTRUCTING TEST STRIP   | EACH   | 2                   | 1                               | 1      |  |  |  | * 78000200            | THERMOPLASTIC PAVEMENT MARKING<br>- LINE 4"                   | FOOT  | 72685               | 57422                           | 15263  |  |  |  |
| 40600982              | HOT-MIX ASPHALT SURFACE REMOVAL - BUTT<br>JOINT                 | SO YD  | 718                 | 431                             | 287    |  |  |  | * 78000400            | THERMOPLASTIC PAVEMENT MARKING<br>- LINE 6"                   | FOOT  | 7048                | 5244                            | 1804   |  |  |  |
| 40601005              | HOT-MIX ASPHALT REPLACEMENT OVER<br>PATCHES                     | TON    | 148                 | 148                             |        |  |  |  | * 78000500            | THERMOPLASTIC PAVEMENT MARKING<br>- LINE 8"                   | FOOT  | 1082                | 478                             | 604    |  |  |  |
| 40603595              | POLYMERIZED HOT-MIX ASPHALT SURFACE<br>COURSE, MIX "F", N90     | TON    | 9941                | 7798                            | 2143   |  |  |  | * 78000600            | THERMOPLASTIC PAVEMENT MARKING<br>- LINE 12"                  | FOOT  | 2161                | 1649                            | 512    |  |  |  |
| 42001300              | PROTECTIVE COAT   | SO YD  | 67                  | 67                              |        |  |  |  | * 78000650            | THERMOPLASTIC PAVEMENT MARKING<br>- LINE 24"                  | FOOT  | 997                 | 773                             | 224    |  |  |  |
| 44000159              | HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/2"                         | SO YD  | 101433              | 79569                           | 21864  |  |  |  | * 78100100            | RAISED REFLECTIVE PAVEMENT MARKER                             | EACH  | 774                 | 611                             | 163    |  |  |  |
| 44001700              | COMBINATION CONCRETE CURB AND GUTTER<br>REMOVAL AND REPLACEMENT | FOOT   | 200                 | 200                             |        |  |  |  | 78300200              | RAISED REFLECTIVE PAVEMENT MARKER<br>REMOVAL                  | EACH  | 724                 | 572                             | 152    |  |  |  |
| 44002213              | HOT-MIX ASPHALT REMOVAL OVER PATCHES,<br>3 1/4"                 | SO YD  | 812                 | 812                             |        |  |  |  | * 88600600            | DETECTOR LOOP REPLACEMENT                                     | FOOT  | 3913                | 2830                            | 1083   |  |  |  |
| 44201749              | CLASS D PATCHES, TYPE I, 9 INCH                                 | SO YD  | 256                 | 200                             | 56     |  |  |  | X0322256              | TEMPORARY INFORMATION SIGNING                                 | SO FT | 359.8               | 257                             | 102.8  |  |  |  |
| 44201753              | CLASS D PATCHES, TYPE II, 9 INCH                                | SO YD  | 2087                | 1630                            | 457    |  |  |  | X4067107              | POLYMERIZED LEVELING BINDER (MACHINE<br>METHOD), IL-4.75, N50 | TON   | 3994                | 3133                            | 861    |  |  |  |
| 44201757              | CLASS D PATCHES, TYPE III, 9 INCH                               | SO YD  | 639                 | 500                             | 139    |  |  |  | Z0000500              | ADJUSTING EXISTING HANDHOLE                                   | EACH  | 9                   | 7                               | 2      |  |  |  |
| 44201759              | CLASS D PATCHES, TYPE IV, 9 INCH                                | SO YD  | 1278                | 1000                            | 278    |  |  |  |                       |   |       |                     |                                 |        |  |  |  |
| 44201761              | CLASS D PATCHES, TYPE I, 10 INCH                                | SO YD  | 48                  | 48                              |        |  |  |  |                       |   |       |                     |                                 |        |  |  |  |
| 44201765              | CLASS D PATCHES, TYPE II, 10 INCH                               | SO YD  | 398                 | 398                             |        |  |  |  |                       |   |       |                     |                                 |        |  |  |  |
| 44201769              | CLASS D PATCHES, TYPE III, 10 INCH                              | SO YD  | 122                 | 122                             |        |  |  |  |                       |   |       |                     |                                 |        |  |  |  |
| 44201771              | CLASS D PATCHES, TYPE IV, 10 INCH                               | SO YD  | 244                 | 244                             |        |  |  |  |                       |   |       |                     |                                 |        |  |  |  |
| 60300105              | FRAMES AND GRATES TO BE ADJUSTED                                | EACH   | 1                   | 1                               |        |  |  |  |                       |   |       |                     |                                 |        |  |  |  |
| 60300310              | FRAMES AND LIDS TO BE ADJUSTED<br>(SPECIAL)                     | EACH   | 53                  | 42                              | 11     |  |  |  |                       |   |       |                     |                                 |        |  |  |  |
| 67000400              | ENGINEER'S FIELD OFFICE, TYPE A                                 | CAL MO | 4                   | 3                               | 1      |  |  |  |                       |   |       |                     |                                 |        |  |  |  |
| 67100100              | MOBILIZATION  | L SUM  | 1                   | 0.5                             | 0.5    |  |  |  |                       |   |       |                     |                                 |        |  |  |  |
| 70102625              | TRAFFIC CONTROL AND PROTECTION,<br>STANDARD 701606              | L SUM  | 1                   | 0.5                             | 0.5    |  |  |  |                       |   |       |                     |                                 |        |  |  |  |
| 70102635              | TRAFFIC CONTROL AND PROTECTION,<br>STANDARD 701701              | L SUM  | 1                   | 0.5                             | 0.5    |  |  |  |                       |   |       |                     |                                 |        |  |  |  |
| 70300100              | SHORT-TERM PAVEMENT MARKING                                     | FOOT   | 15282               | 12072                           | 3210   |  |  |  |                       |   |       |                     |                                 |        |  |  |  |
| 70300210              | TEMPORARY PAVEMENT MARKING<br>- LETTERS AND SYMBOLS             | SO FT  | 1915.7              | 1339.9                          | 575.8  |  |  |  |                       |   |       |                     |                                 |        |  |  |  |
| 70300220              | TEMPORARY PAVEMENT MARKING<br>- LINE 4"                         | FOOT   | 72685               | 57422                           | 15263  |  |  |  |                       |   |       |                     |                                 |        |  |  |  |
| 70300240              | TEMPORARY PAVEMENT MARKING<br>- LINE 6"                         | FOOT   | 7048                | 5244                            | 1804   |  |  |  |                       |   |       |                     |                                 |        |  |  |  |
| 70300250              | TEMPORARY PAVEMENT MARKING<br>- LINE 8"                         | FOOT   | 1082                | 478                             | 604    |  |  |  |                       |   |       |                     |                                 |        |  |  |  |

\* Specialty Items

LOC. 1: HILLCREST SHOPPING CENTER TO US 52  
LOC. 2: US 52 (JEFFERSON ST.) TO  
MCDONOUGH ST.

IL. 7 (LARKIN AVE)



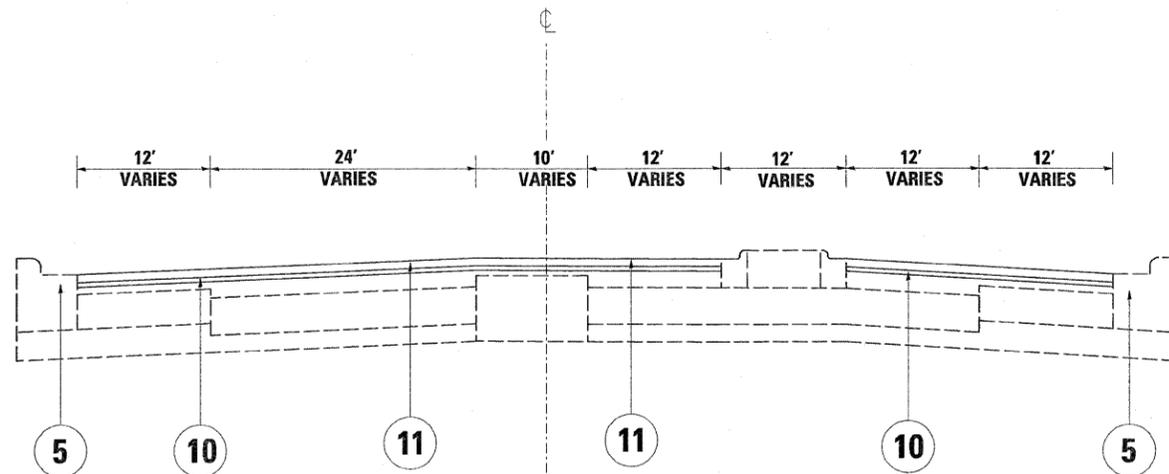
EXIST. TYPICAL SECTION

IL. 7  
STA. 9+30 TO 16+00

**LEGEND**

- ① EXISTING PCC BASE COURSE, ± 9"
- ② EXISTING PCC BASE COURSE, ± 9"
- ③ EXISTING HOT-MIX ASPHALT AFTER MILLING, ± 3/4"
- ④ EXISTING HOT-MIX ASPHALT AFTER MILLING, ± 4 3/4"
- ⑤ EXISTING COMB. CURB AND GUTTER
- ⑥ EXISTING PCC BASE
- ⑦ EXISTING BARRIER MEDIAN
- ⑧ EXISTING SUB-BASE GRANULAR MATERIAL
- ⑨ PROP. HMA SURFACE REMOVAL, 2 1/2"
- ⑩ PROP. POLY. LEVELING BINDER (MACHINE METHOD), IL-4.75, N50, 3/4"
- ⑪ PROP. POLY. HOT-MIX ASPHALT SURFACE COURSE, MIX "F", N90, 1 3/4"
- ⑫ EXISTING PCC BASE COURSE, ± 10"

IL. 7 (LARKIN AVE)



PROP. TYPICAL SECTION

IL. 7  
STA. 9+30 TO 16+00

**MIXTURE REQUIREMENTS**

| MIXTURE USES   | AC TYPE               | VOIDS         |
|--|-----------------------|---------------|
| POLY. HOT-MIX ASPHALT SURFACE COURSE, MIX "F", N90 (IL 9.5 mm) | SBS/SBR PG 70 -22     | 4% AT 90 GYR. |
| POLY. LEVELING BINDER (MACHINE METHOD), IL-4.75, N50           | SBS/SBR PG 76 -28/-22 | 4% AT 50 GYR. |
| CLASS D PATCHES (HMA BINDER IL-19 mm)                          | PG 64 -22*            | 4% AT 70 GYR. |
| HOT-MIX ASPHALT REPLACEMENT OVER PATCHES, (BINDER IL-19 mm)    | PG 64 -22*            | 4% AT 70 GYR. |

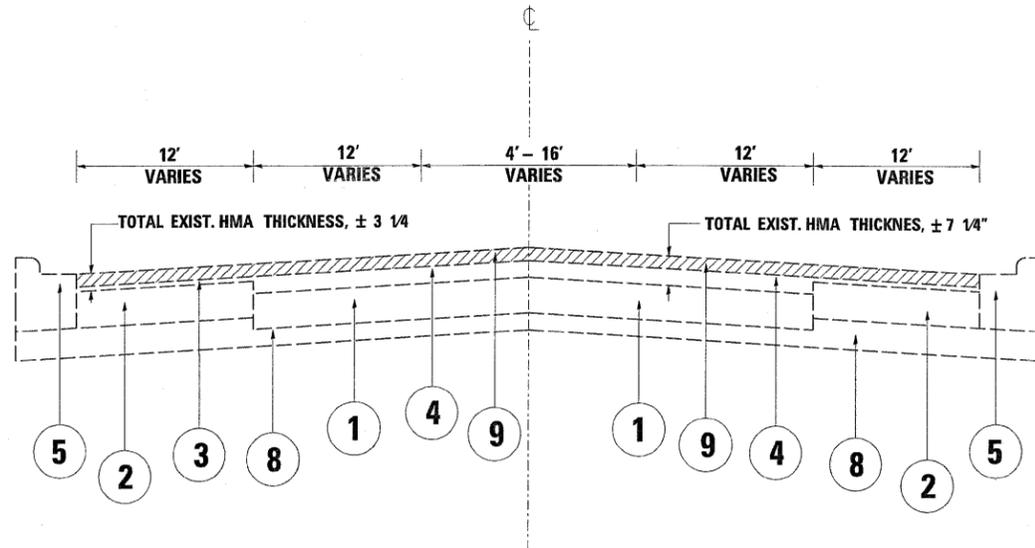
NOTE 1: THE UNIT WEIGHT USED TO CALCULATE ALL HOT-MIX ASPHALT SURFACE MIXTURE IS 112 LBS/SQ YD/IN

\* NOTE 2: WHEN RAP EXCEEDS 20% THE NEW ASPHALT BINDER IN THE MIX SHALL BE PG 58 -22

**NOTE:**

THE CONTRACTOR SHALL MILL FIRST BEFORE PATCHING

IL. 7 (LARKIN AVE)



EXIST. TYPICAL SECTION

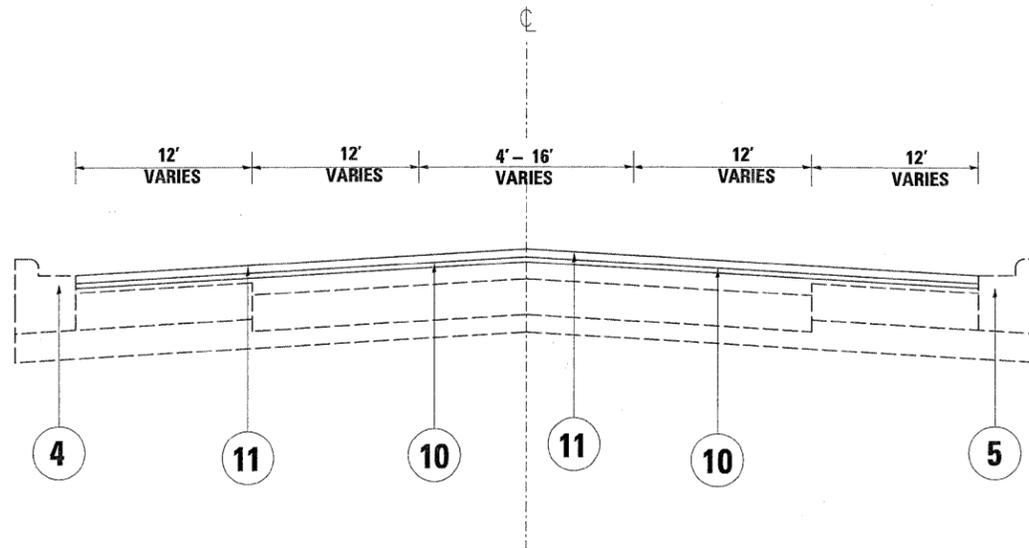
IL. 7

STA. 16+00 TO 127+00

**LEGEND**

- ① EXISTING PCC BASE COURSE, ± 9"
- ② EXISTING PCC BASE COURSE, ± 9"
- ③ EXISTING HOT-MIX ASPHALT AFTER MILLING, ± 3/4"
- ④ EXISTING HOT-MIX ASPHALT AFTER MILLING, ± 4 3/4"
- ⑤ EXISTING COMB. CURB AND GUTTER
- ⑥ EXISTING PCC BASE
- ⑦ EXISTING BARRIER MEDIAN
- ⑧ EXISTING SUB-BASE GRANULAR MATERIAL
- ⑨ PROP. HMA SURFACE REMOVAL, 2 1/2"
- ⑩ PROP. POLY. LEVELING BINDER (MACHINE METHOD), IL-4.75, N50, 3/4"
- ⑪ PROP. POLY. HOT-MIX ASPHALT SURFACE COURSE, MIX "F", N90, 1 3/4"
- ⑫ EXISTING PCC BASE COURSE, ± 10"

IL. 7 (LARKIN AVE)



PROP. TYPICAL SECTION

IL. 7

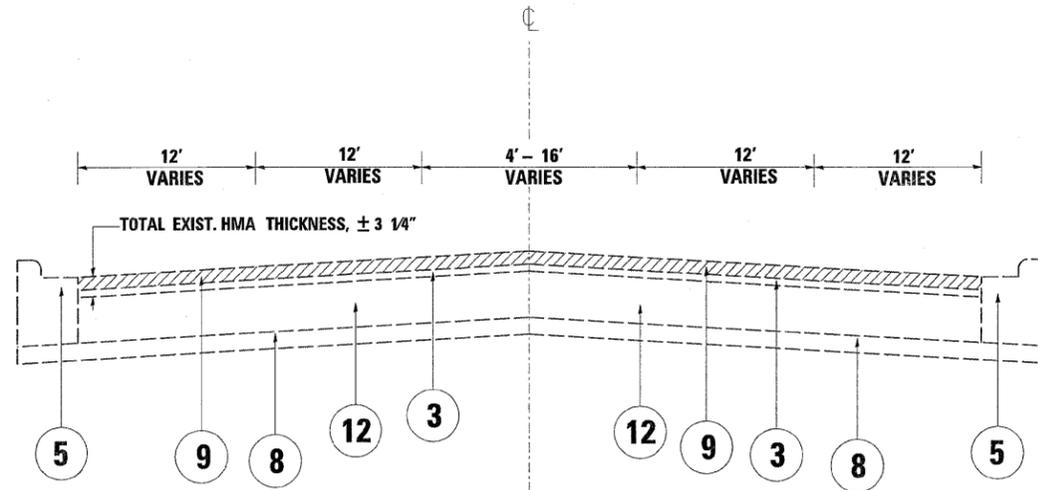
STA. 16+00 TO 127+00

**NOTE:**

THE CONTRACTOR SHALL MILL FIRST BEFORE PATCHING

|                                      |                        |            |           |   |   |                    |                         |                           |                           |           |
|--------------------------------------|------------------------|------------|-----------|---|---|--------------------|-------------------------|---------------------------|---------------------------|-----------|
| FILE NAME =                          | USER NAME = estimoblek | DESIGNED - | REVISED - | <b>STATE OF ILLINOIS<br/>DEPARTMENT OF TRANSPORTATION</b> | <b>IL 7 (LARKIN AVE.) (HILLCREST SHOPPING CENTER TO MCDONOUGH)<br/>EXISTING AND PROPOSED TYPICAL SECTIONS</b> | F.A.P. RTE.        | SECTION                 | COUNTY                    | TOTAL SHEETS              | SHEET NO. |
| c:\pw_work\PW100T\ESTIMABLE\0145897\ | 78289-shr-plan.dgn     | DRAWN -    | REVISED - |   |   | 856                | 28X-3 RS-1              | WILL                      | 28                        | 5         |
| PLOT SCALE = 50.0000 ' / IN.         | CHECKED -              | REVISED -  | REVISED - |   |   | CONTRACT NO. 60H74 |                         |                           |                           |           |
| PLOT DATE = 6/25/2009                | DATE -                 | REVISED -  | REVISED - |   |   | SCALE:             | SHEET NO. 2 OF 3 SHEETS | STA. 16+00 TO STA. 127+00 | ILLINOIS FED. AID PROJECT |           |

IL. 7 (LARKIN AVE)



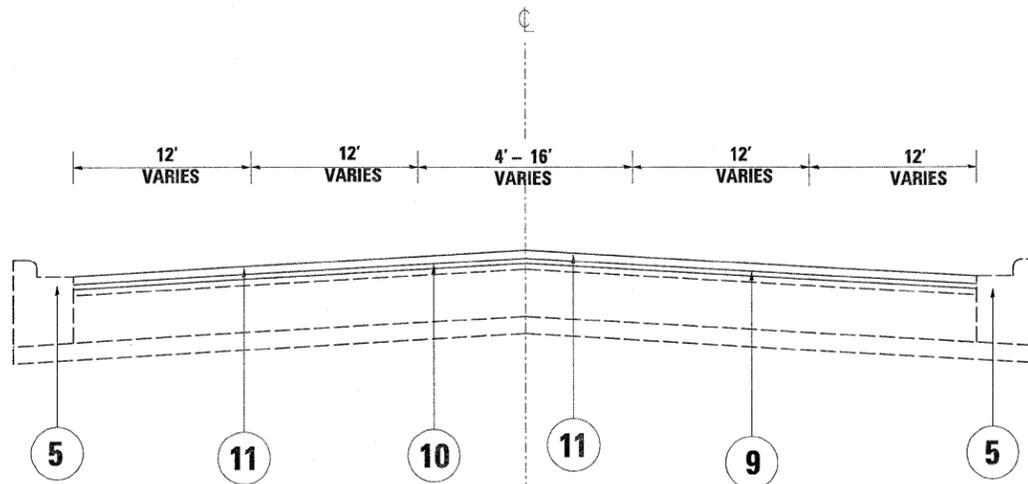
EXIST. TYPICAL SECTION

IL. 7  
STA. 127+00 TO 149+37

**LEGEND**

- ① EXISTING PCC BASE COURSE, ± 9"
- ② EXISTING PCC BASE COURSE, ± 9"
- ③ EXISTING HOT-MIX ASPHALT AFTER MILLING, ± 3/4"
- ④ EXISTING HOT-MIX ASPHALT AFTER MILLING, ± 4 3/4"
- ⑤ EXISTING COMB. CURB AND GUTTER
- ⑥ EXISTING PCC BASE
- ⑦ EXISTING BARRIER MEDIAN
- ⑧ EXISTING SUB-BASE GRANULAR MATERIAL
- ⑨ PROP. HMA SURFACE REMOVAL, 2 1/2"
- ⑩ PROP. POLY. LEVELING BINDER (MACHINE METHOD), IL-4.75, N50, 3/4"
- ⑪ PROP. POLY. HOT-MIX ASPHALT SURFACE COURSE, MIX "F", N90, 1 3/4"
- ⑫ EXISTING PCC BASE COURSE, ± 10"

IL. 7 (LARKIN AVE)



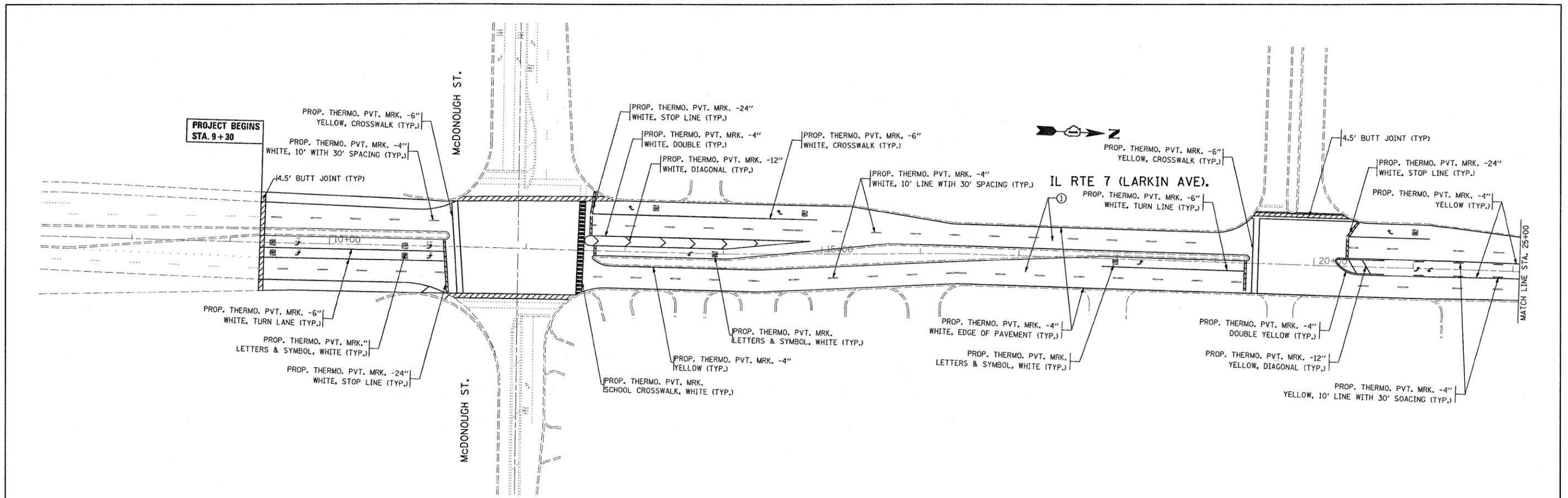
PROP. TYPICAL SECTION

IL. 7  
STA. 127+00 TO 149+37

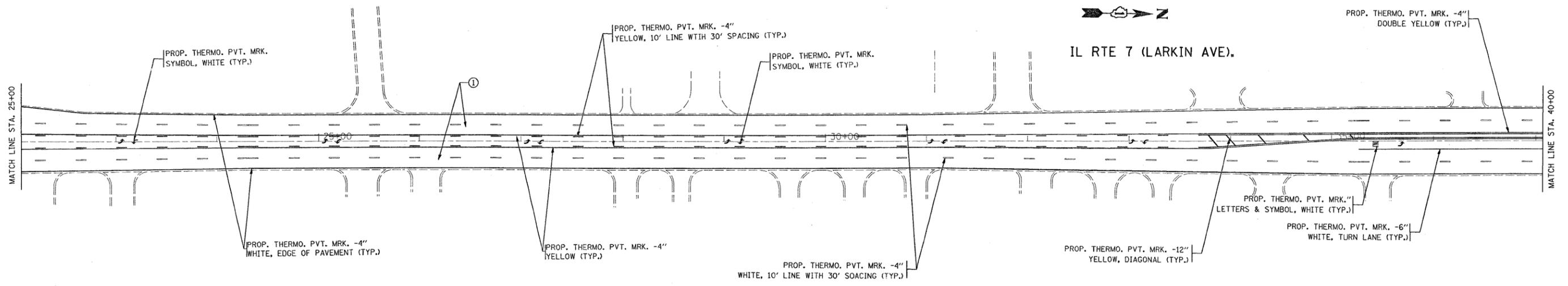
**NOTE:**

THE CONTRACTOR SHALL PATCH FIRST BEFORE MILLING

|   |                             |            |           |   |   |                           |                         |                            |                    |             |  |  |
|---|-----------------------------|------------|-----------|---|---|---------------------------|-------------------------|----------------------------|--------------------|-------------|--|--|
| FILE NAME =   | USER NAME = estunoblek      | DESIGNED - | REVISED - | <b>STATE OF ILLINOIS<br/>DEPARTMENT OF TRANSPORTATION</b> | <b>IL 7 (LARKIN AVE.) [HILLCREST SHOPPING CENTER TO MCDONOUGH]<br/>EXISTING AND PROPOSED TYPICAL SECTIONS</b> | F.A.P. RTE. 856           | SECTION 28X-3 RS-1      | COUNTY WILL                | TOTAL SHEETS 28    | SHEET NO. 6 |  |  |
| ca\pwwork\VPW1001\ESTIMABLE\J08145897\178209-shr-plan.dgn | PLDT SCALE = 50.0000' / IN. | DRAWN -    | REVISED - |   |   | SCALE:                    | SHEET NO. 3 OF 3 SHEETS | STA. 127+00 TO STA. 149+37 | CONTRACT NO. 60H74 |             |  |  |
|   | PLDT DATE = 6/25/2009       | CHECKED -  | REVISED - |   |   | ILLINOIS FED. AID PROJECT |                         |                            |                    |             |  |  |
|   |                             | DATE -     | REVISED - |   |   |                           |                         |                            |                    |             |  |  |

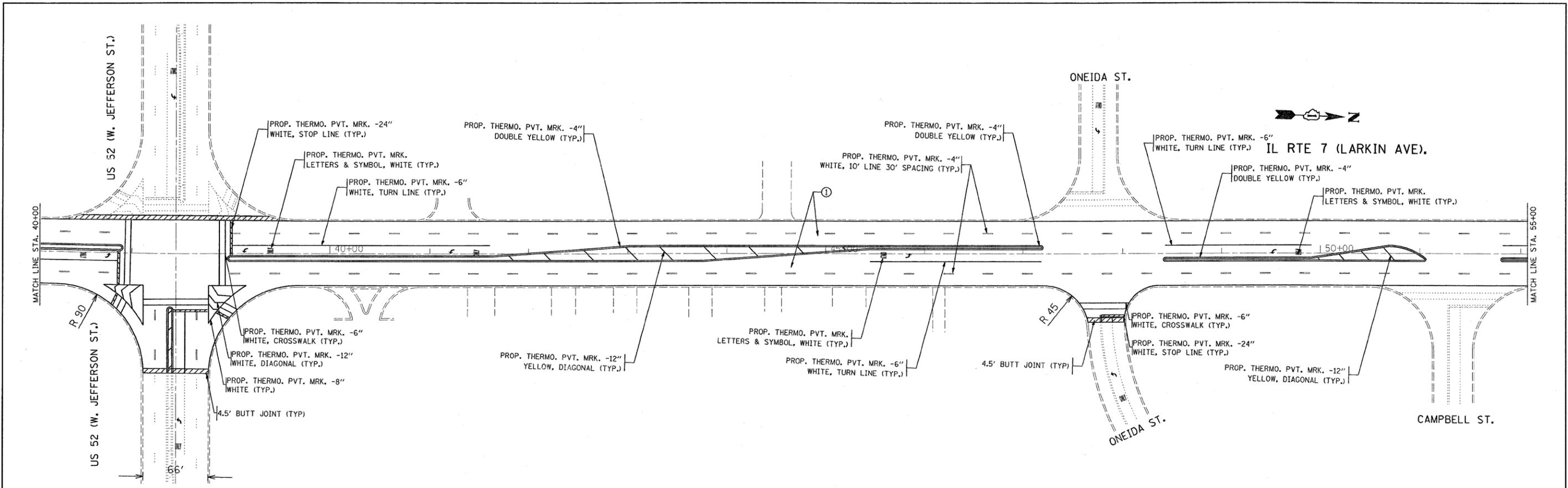


① PROP. HMA SURFACE REMOVAL, 2 1/2"  
 PROP. POLY. LEVELING BINDER (MM), IL-4.75, N50, 3/4"  
 PROP. POLY. HMA SURFACE COURSE, MIX "F", N90, 1 3/4"

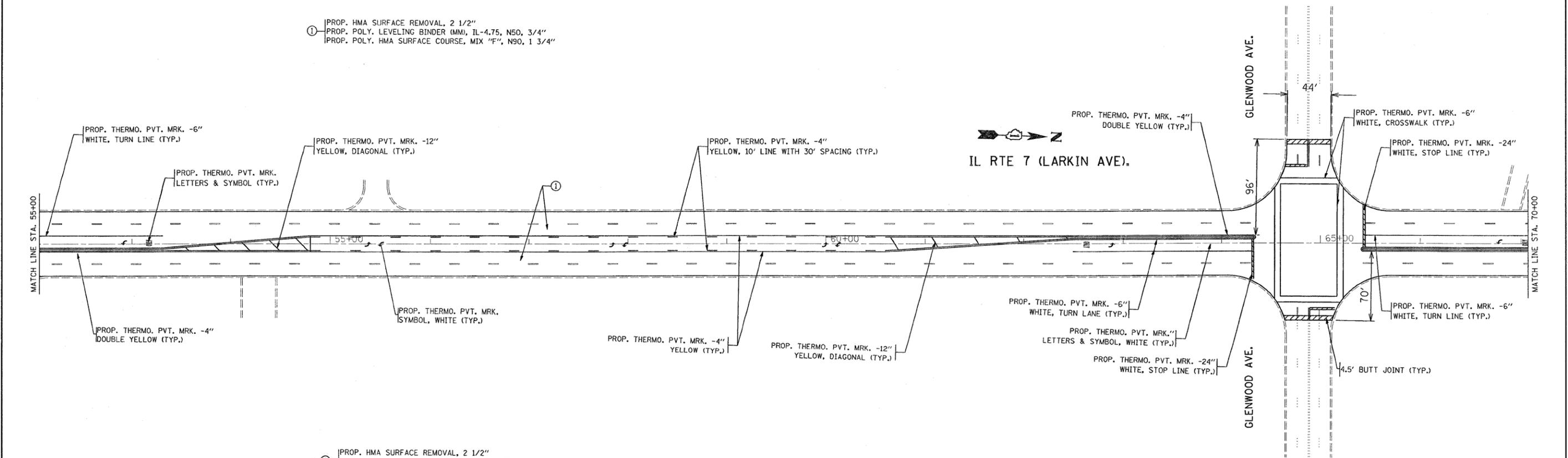


① PROP. HMA SURFACE REMOVAL, 2 1/2"  
 PROP. POLY. LEVELING BINDER (MM), IL-4.75, N50, 3/4"  
 PROP. POLY. HMA SURFACE COURSE, MIX "F", N90, 1 3/4"

|   |                             |            |           |   |  |                           |            |        |                 |              |  |
|---|-----------------------------|------------|-----------|---|--|---------------------------|------------|--------|-----------------|--------------|--|
| FILE NAME =   | USER NAME = estimablek      | DESIGNED - | REVISED - | <b>STATE OF ILLINOIS<br/>DEPARTMENT OF TRANSPORTATION</b> | <b>IL 7 (LARKIN AVE.) [HILLCREST SHOPPING CENTER TO MCDONOUGH]<br/>ROADWAY PLANS AND PAVEMENT MARKINGS</b> | F.A.P.<br>RTE.            | SECTION    | COUNTY | TOTAL<br>SHEETS | SHEET<br>NO. |  |
| c:\pwork\pwidot\ESTIMABLEK\d0145897\078209-sh.tplan.dgn | PLOT SCALE = 50.0000' / IN. | DRAWN -    | REVISED - |   |  | 856                       | 28X-3 RS-1 | WILL   | 28              | 7            |  |
| PLOT DATE = 6/25/2009                                   | DATE -                      | CHECKED -  | REVISED - |   |  | CONTRACT NO. 60H74        |            |        |                 |              |  |
|   |                             |            |           |   |  | ILLINOIS FED. AID PROJECT |            |        |                 |              |  |



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



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

FILE NAME =  
 c:\pwork\p\DOT\ESTIMABLEK\0145897\78289-shr-plan.dgn

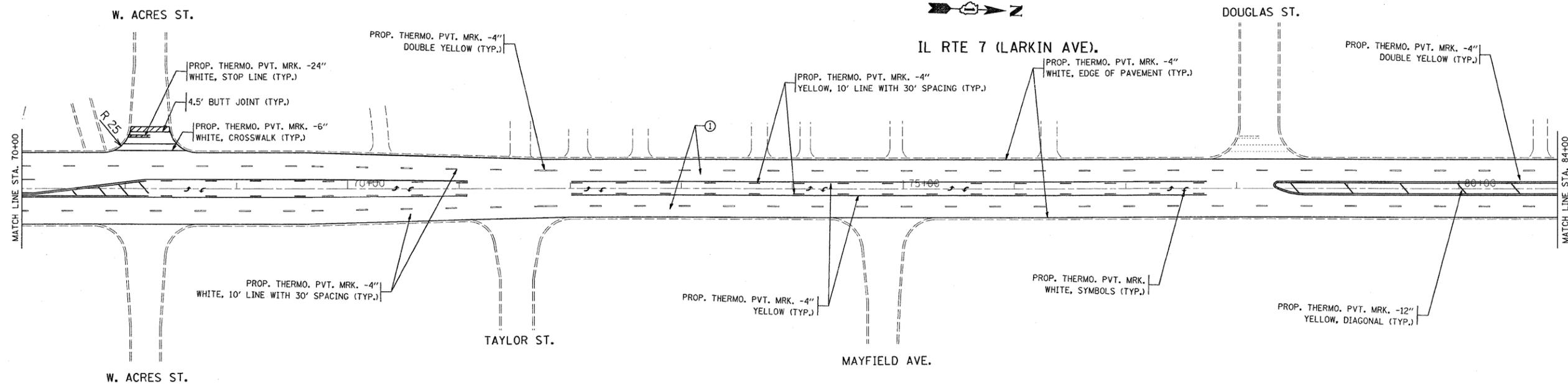
USER NAME = estimablek  
 PLOT SCALE = 50.0000' / IN.  
 PLOT DATE = 6/25/2009

|            |           |
|------------|-----------|
| DESIGNED - | REVISED - |
| DRAWN -    | REVISED - |
| CHECKED -  | REVISED - |
| DATE -     | REVISED - |

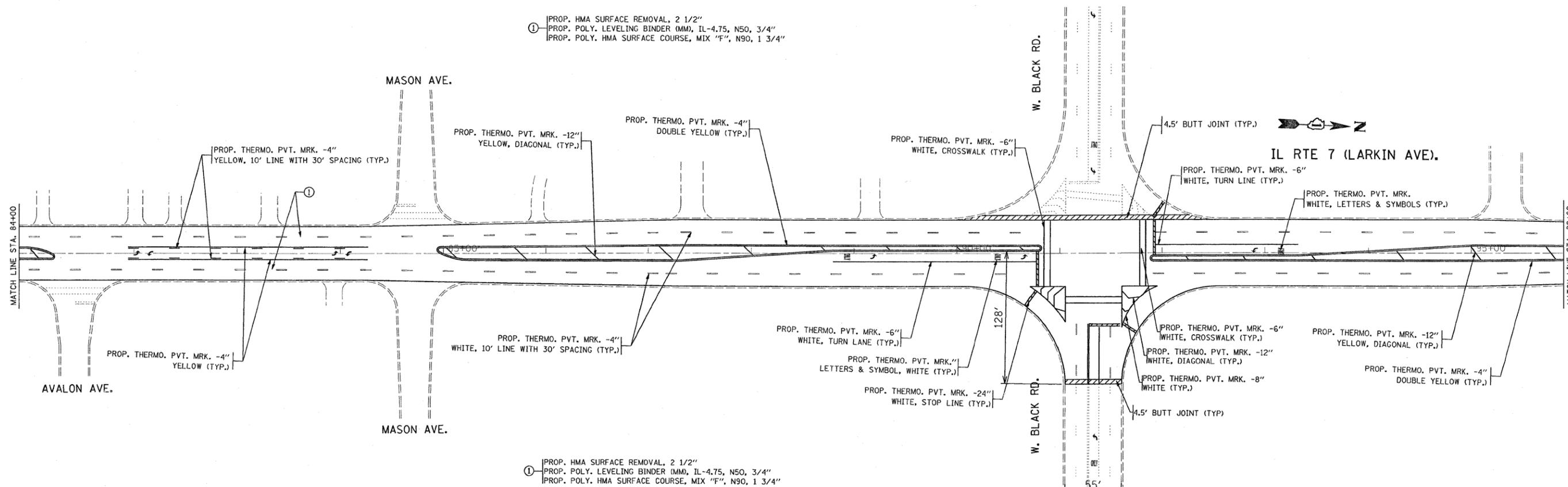
**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**IL 7 (LARKIN AVE.) (HILLCREST SHOPPING CENTER TO MCDONOUGH)**  
 ROADWAY PLANS AND PAVEMENT MARKINGS  
 SCALE: SHEET NO. 2 OF 5 SHEETS STA. 37+07 TO STA. 67+07

| F.A.P. RTE.               | SECTION    | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------------|------------|--------|--------------|-----------|
| 856                       | 28X-3 RS-1 | WILL   | 28           | 8         |
| CONTRACT NO. 60H74        |            |        |              |           |
| ILLINOIS FED. AID PROJECT |            |        |              |           |



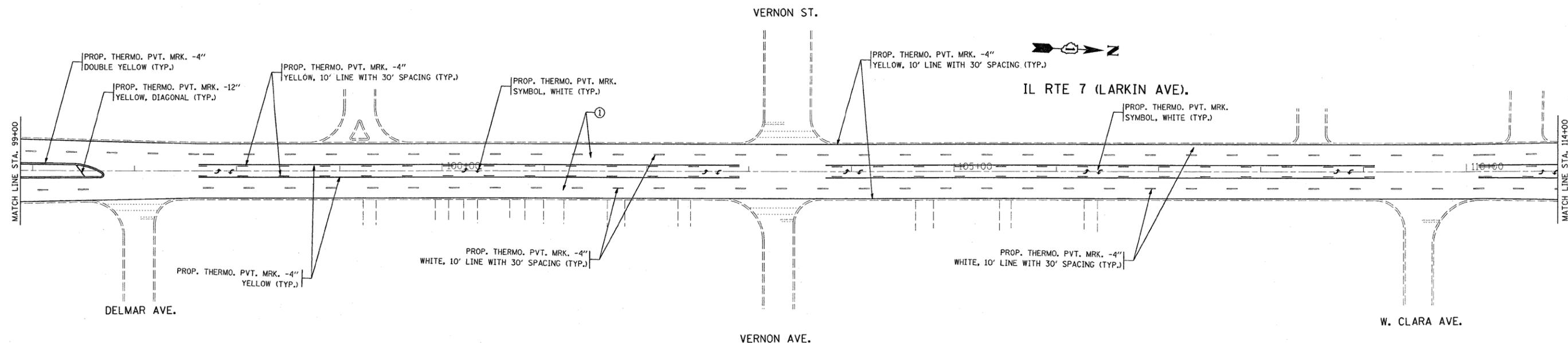
① PROP. HMA SURFACE REMOVAL, 2 1/2"  
 ② PROP. POLY. LEVELING BINDER (MM), IL-4.75, N50, 3/4"  
 ③ PROP. POLY. HMA SURFACE COURSE, MIX "F", N90, 1 3/4"



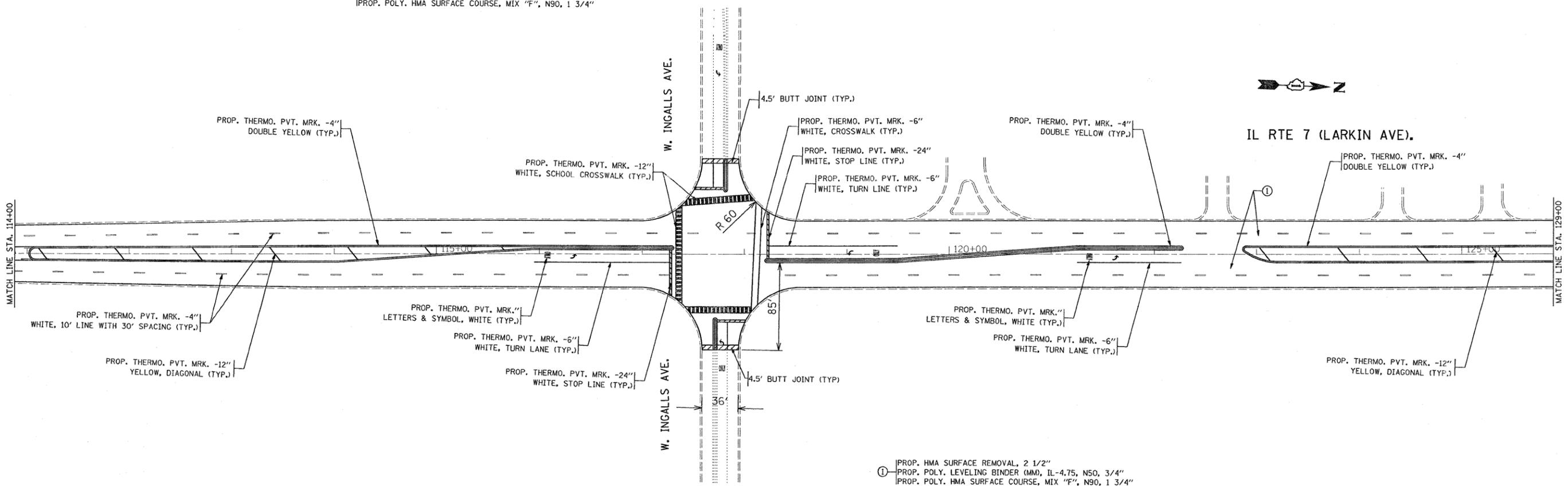
① PROP. HMA SURFACE REMOVAL, 2 1/2"  
 ② PROP. POLY. LEVELING BINDER (MM), IL-4.75, N50, 3/4"  
 ③ PROP. POLY. HMA SURFACE COURSE, MIX "F", N90, 1 3/4"

|   |                      |            |           |   |  |                           |            |        |              |           |  |
|---|----------------------|------------|-----------|---|--|---------------------------|------------|--------|--------------|-----------|--|
| FILE NAME =   | USER NAME = estmblek | DESIGNED - | REVISED - | <b>STATE OF ILLINOIS<br/>DEPARTMENT OF TRANSPORTATION</b> | <b>IL 7 (LARKIN AVE.) (HILLCREST SHOPPING CENTER TO MCDONOUGH)<br/>ROADWAY PLANS AND PAVEMENT MARKINGS</b> | F.A.P. RTE.               | SECTION    | COUNTY | TOTAL SHEETS | SHEET NO. |  |
| c:\pw_work\PW\DOT\EST\IMBLEK\0145897\0178209-sht-plan.dgn |                      | DRAWN -    | REVISED - |   |  | 856                       | 28X-3 RS-1 | WILL   | 28           | 9         |  |
| PLOT SCALE = 50.0000 / / IN.                              |                      | CHECKED -  | REVISED - |   |  | CONTRACT NO. 60H74        |            |        |              |           |  |
| PLOT DATE = 6/25/2009                                     |                      | DATE -     | REVISED - |   |  | ILLINOIS FED. AID PROJECT |            |        |              |           |  |

SCALE: SHEET NO. 3 OF 5 SHEETS STA. 67+07 TO STA. 95+88

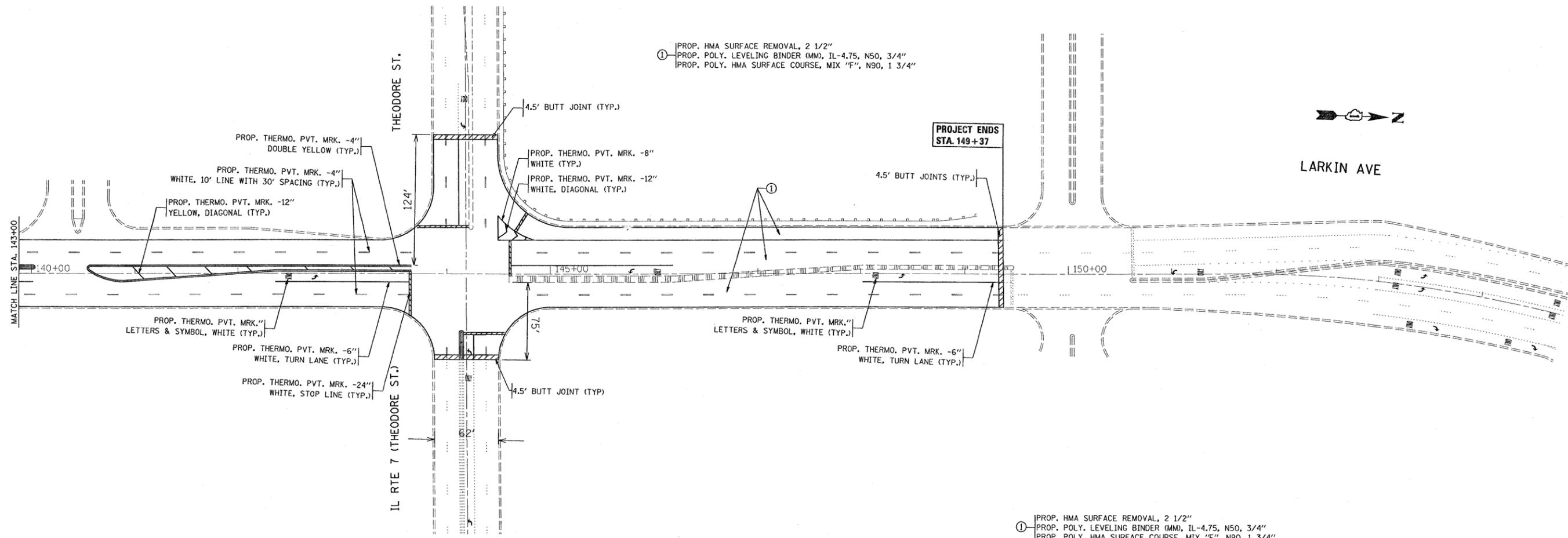
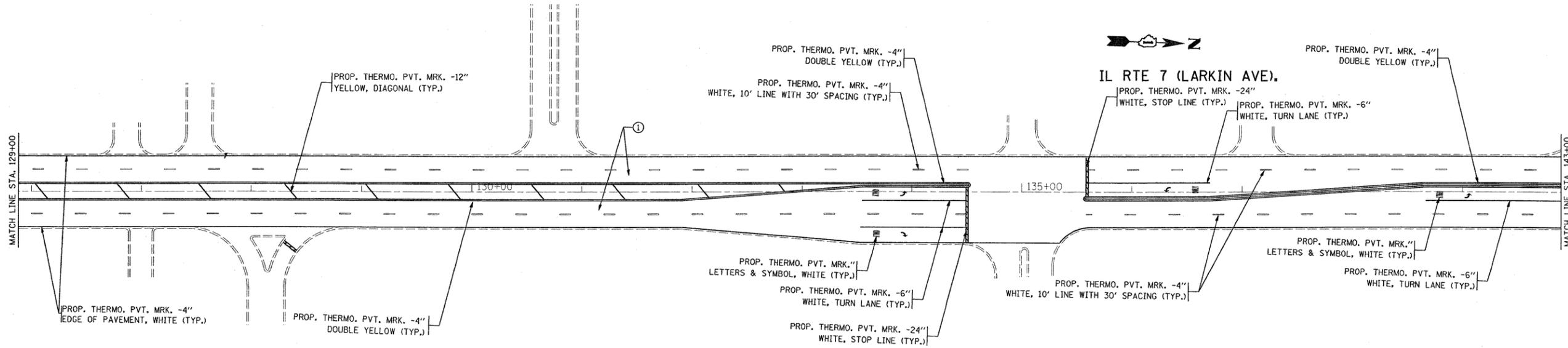


① PROP. HMA SURFACE REMOVAL, 2 1/2"  
 PROP. POLY. LEVELING BINDER (MM), IL-4.75, N50, 3/4"  
 PROP. POLY. HMA SURFACE COURSE, MIX "F", N90, 1 3/4"



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

|                       |                             |            |           |   |  |                           |            |        |                 |              |  |
|-----------------------|-----------------------------|------------|-----------|---|--|---------------------------|------------|--------|-----------------|--------------|--|
| FILE NAME =           | USER NAME = estmablek       | DESIGNED - | REVISED - | <b>STATE OF ILLINOIS<br/>DEPARTMENT OF TRANSPORTATION</b> | <b>IL 7 (LARKIN AVE.) (HILLCREST SHOPPING CENTER TO MCDONOUGH)<br/>ROADWAY PLANS AND PAVEMENT MARKINGS</b> | F.A.P.<br>RTE.            | SECTION    | COUNTY | TOTAL<br>SHEETS | SHEET<br>NO. |  |
| 78289-shr-plan.dgn    | PLOT SCALE = 50.0000' / IN. | DRAWN -    | REVISED - |   |  | 856                       | 28X-3 RS-1 | WILL   | 28              | 10           |  |
| PLOT DATE = 6/25/2009 | DATE -                      | CHECKED -  | REVISED - |   |  | CONTRACT NO. 60H74        |            |        |                 |              |  |
|                       |                             |            |           |   |  | ILLINOIS FED. AID PROJECT |            |        |                 |              |  |



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

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

|   |                             |            |           |
|---|-----------------------------|------------|-----------|
| FILE NAME =   | USER NAME = estmablek       | DESIGNED - | REVISED - |
| ca\p\work\FWIDOT\ESTIMABLE\08145897\078209-shr\plan\dgn |                             | DRAWN -    | REVISED - |
|   | PLOT SCALE = 50.0000' / IN. | CHECKED -  | REVISED - |
|   | PLOT DATE = 6/25/2009       | DATE -     | REVISED - |

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**IL 7 (LARKIN AVE.) (HILLCREST SHOPPING CENTER TO MCDONOUGH)**  
**ROADWAY PLANS AND PAVEMENT MARKINGS**

SCALE: SHEET NO. 5 OF 5 SHEETS STA. 125+88 TO STA. 149+37

|                           |            |        |              |           |
|---------------------------|------------|--------|--------------|-----------|
| F.A.P. RTE.               | SECTION    | COUNTY | TOTAL SHEETS | SHEET NO. |
| 856                       | 28X-3 RS-1 | WILL   | 28           | 11        |
| CONTRACT NO. 60H74        |            |        |              |           |
| ILLINOIS FED. AID PROJECT |            |        |              |           |

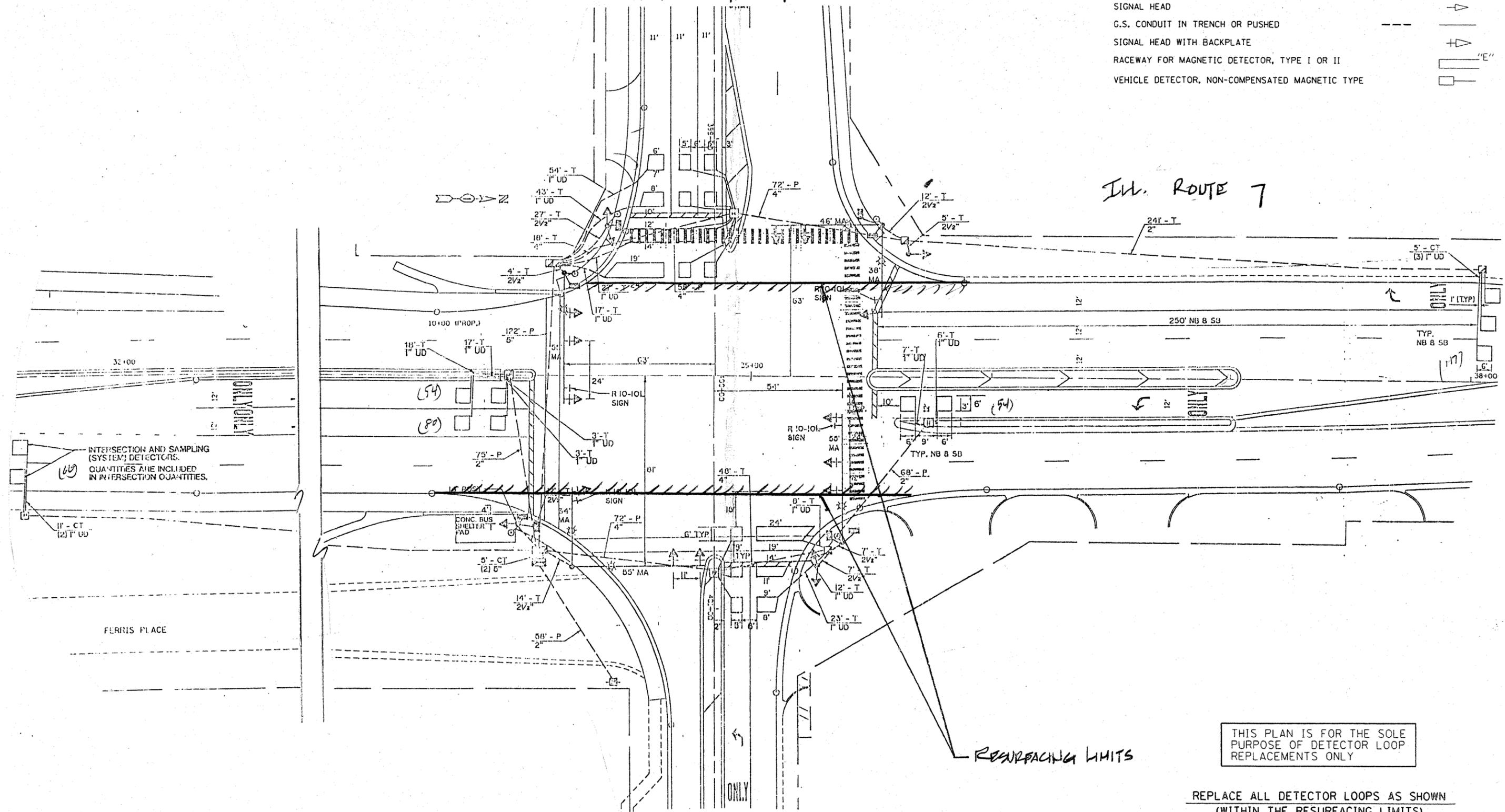
**TRAFFIC SIGNAL LEGEND**

|   | 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 |          |          |

McDONOUGH ST.

ILL. ROUTE 7

McDONOUGH ST.



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

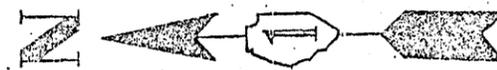
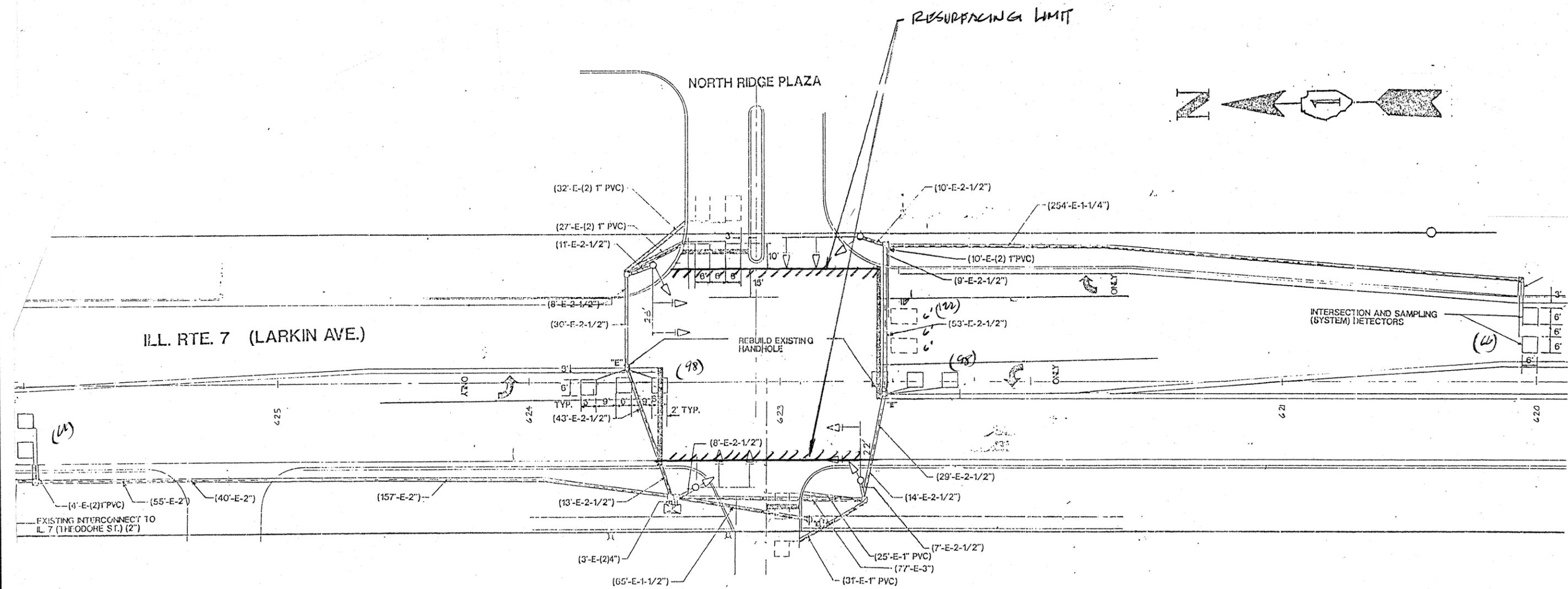
REPLACE ALL DETECTOR LOOPS AS SHOWN (WITHIN THE RESURFACING LIMITS)

| CODE     | QUANTITY | UNIT | ITEM                       |
|----------|----------|------|----------------------------|
| 86600600 | 371      | FOOT | DETECTOR LOOP, REPLACEMENT |

|   |                            |                |           |   |  |   |            |        |              |           |  |
|---|----------------------------|----------------|-----------|---|--|---|------------|--------|--------------|-----------|--|
| FILE NAME =                             | USER NAME = kanthaphixaybc | DESIGNED - BCK | REVISED - | STATE OF ILLINOIS<br>DEPARTMENT OF TRANSPORTATION | DISTRICT ONE - DETECTOR LOOP REPLACEMENT<br>ILL. ROUTE 7 @ McDONOUGH ST. | F.A.P. RTE.                                   | SECTION    | COUNTY | TOTAL SHEETS | SHEET NO. |  |
| et:\pwwork\pww\DOT\KANTHAPHIXAYBC\01126 | 4\tref\fig.legend_v7.dgn   | DRAWN - BCK    | REVISED - |   |  | 256   | 28X-3 RS-1 | WILL   | 58           | 12        |  |
|   | PLOT SCALE = 3/4" = 1' IN. | CHECKED - DAD  | REVISED - |   |  | CONTRACT NO.                                  |            |        |              |           |  |
|   | PLOT DATE = 4/3/2009       | DATE           | REVISED - |   |  | FED. ROAD DIST. 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

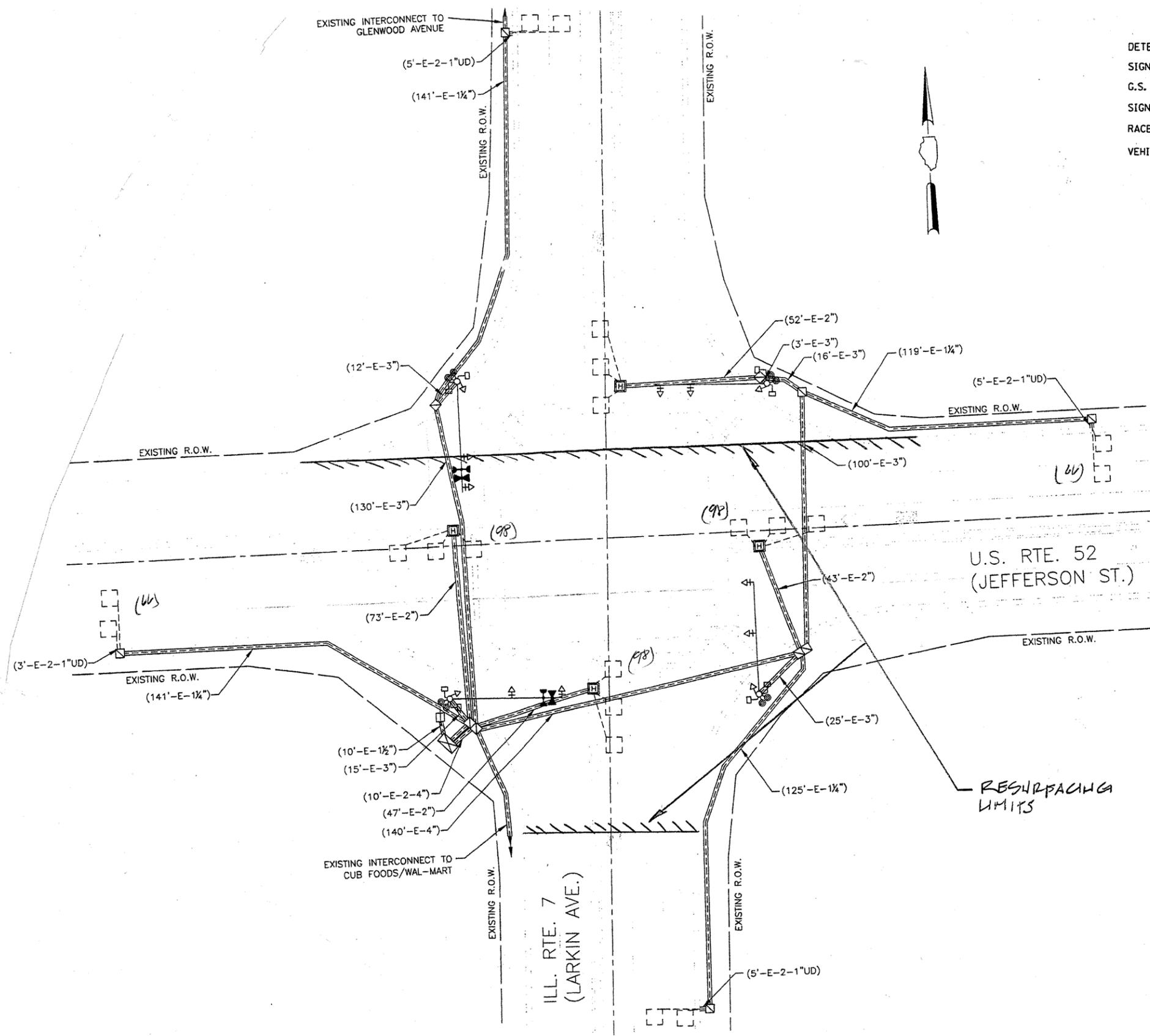
REPLACE ALL DETECTOR LOOPS AS SHOWN (WITHIN THE RESURFACING LIMITS)

| CODE     | QUANTITY | UNIT | ITEM                       |
|----------|----------|------|----------------------------|
| 86600600 | 450      | FOOT | DETECTOR LOOP, REPLACEMENT |

|                                      |                            |                |           |   |   |   |         |        |              |           |    |
|--------------------------------------|----------------------------|----------------|-----------|---|---|---|---------|--------|--------------|-----------|----|
| FILE NAME =                          | USER NAME = kanthaphixaybc | DESIGNED - BCK | REVISED - | <b>STATE OF ILLINOIS<br/>DEPARTMENT OF TRANSPORTATION</b> | <b>DISTRICT ONE - DETECTOR LOOP REPLACEMENT<br/>ILL. ROUTE 7 @ N. RIDGE PLAZA</b> | F.A.P. RTE.                                     | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |    |
| c:\pwork\PWIDOT\KANTHAPHIXAYBC\01126 | 4\tr of fic .legend.v7.dgn | DRAWN - BCK    | REVISED - |   |   | 856   | 28X-3   | 45-1   | will         | 28        | 13 |
|                                      | PLOT SCALE = 3/4" = 1' IN. | CHECKED - DAD  | REVISED - |   |   | CONTRACT NO.                                    |         |        |              |           |    |
|                                      | PLOT DATE = 4/3/2009       | DATE -         | REVISED - |   |   | FED. ROAD DIST. 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

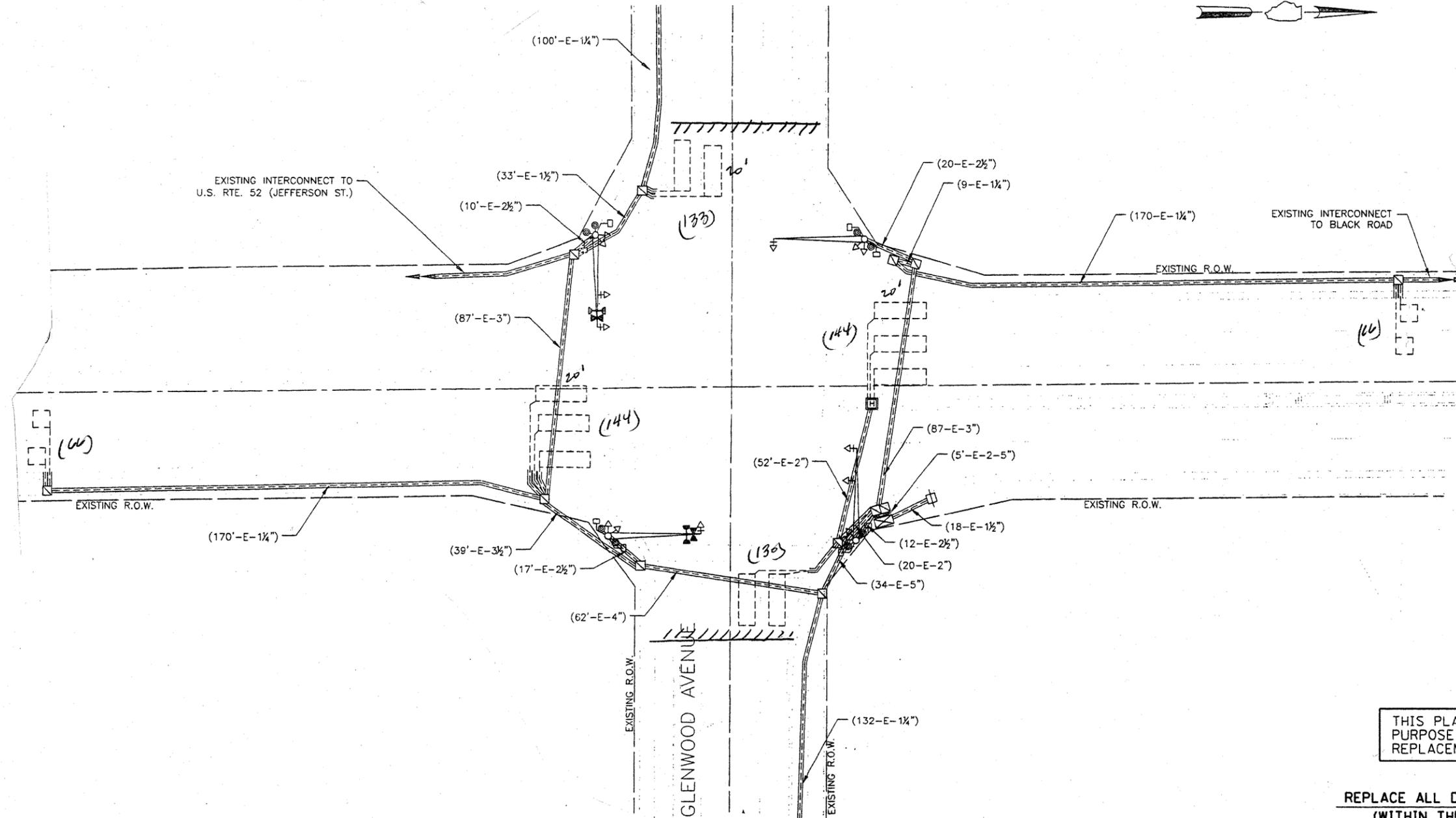
REPLACE ALL DETECTOR LOOPS AS SHOWN (WITHIN THE RESURFACING LIMITS)

| CODE     | QUANTITY | UNIT | ITEM                       |
|----------|----------|------|----------------------------|
| 86600600 | 426      | FOOT | DETECTOR LOOP, REPLACEMENT |

|  |                            |                |           |   |  |   |            |        |              |           |  |
|--|----------------------------|----------------|-----------|---|--|---|------------|--------|--------------|-----------|--|
| FILE NAME =                            | USER NAME = kentphixeybc   | DESIGNED - BCK | REVISED - | <b>STATE OF ILLINOIS<br/>DEPARTMENT OF TRANSPORTATION</b> | <b>DISTRICT ONE - DETECTOR LOOP REPLACEMENT<br/>ILL. ROUTE 7 @ U.S. ROUTE 52</b> | F.A.S. RTE.                                   | SECTION    | COUNTY | TOTAL SHEETS | SHEET NO. |  |
| cd:\pwwork\pwwid\KANTHAPHIXAYBC\d01126 | 4\treffic\legend.v7.dgn    | DRAWN - BCK    | REVISED - |   |  | 936   | 22X-3 R3-1 | Will   | 28           | 14        |  |
|  | PLOT SCALE = 3/4" = 1' IN. | CHECKED - DAD  | REVISED - |   |  | CONTRACT NO.                                  |            |        |              |           |  |
|  | PLOT DATE = 4/3/2009       | DATE           | REVISED - |   |  | FED. ROAD DIST. 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

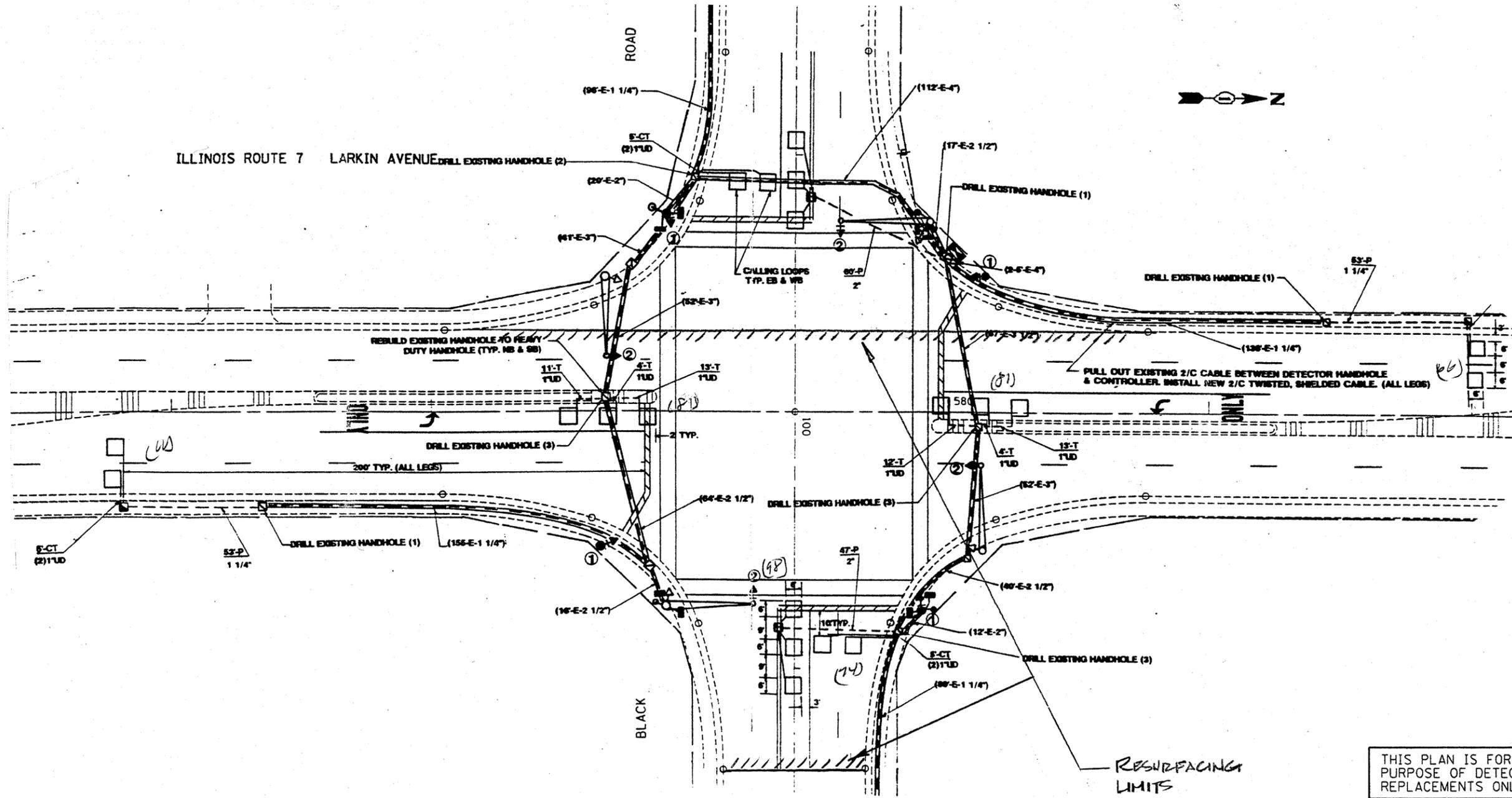
REPLACE ALL DETECTOR LOOPS AS SHOWN (WITHIN THE RESURFACING LIMITS)

| CODE     | QUANTITY | UNIT | ITEM                       |
|----------|----------|------|----------------------------|
| 86600600 | 683      | FOOT | DETECTOR LOOP, REPLACEMENT |

|                                       |                            |                |           |   |   |   |            |        |              |           |  |
|---------------------------------------|----------------------------|----------------|-----------|---|---|---|------------|--------|--------------|-----------|--|
| FILE NAME =                           | USER NAME = kanthaphixaybc | DESIGNED - BCK | REVISED - | <b>STATE OF ILLINOIS<br/>DEPARTMENT OF TRANSPORTATION</b> | <b>DISTRICT ONE - DETECTOR LOOP REPLACEMENT<br/>ILL. ROUTE 7 @ GLENWOOD AV.</b> | F.A.P. RTE.                                   | SECTION    | COUNTY | TOTAL SHEETS | SHEET NO. |  |
| ct:\pwork\PMIDOT\KANTHAPHIXAYBC\01126 | 4\ttraffic.legend_v7.dgn   | DRAWN - BCK    | REVISED - |   |   | 856   | 28X-3 RS-1 | Will   | 28           | 15        |  |
| PLOT SCALE = 3/4" = 1' IN.            | CHECKED - DAD              | REVISED -      | REVISED - |   |   | CONTRACT NO.                                  |            |        |              |           |  |
| PLOT DATE = 4/3/2009                  | DATE                       | REVISED -      | REVISED - |   |   | FED. ROAD DIST. 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

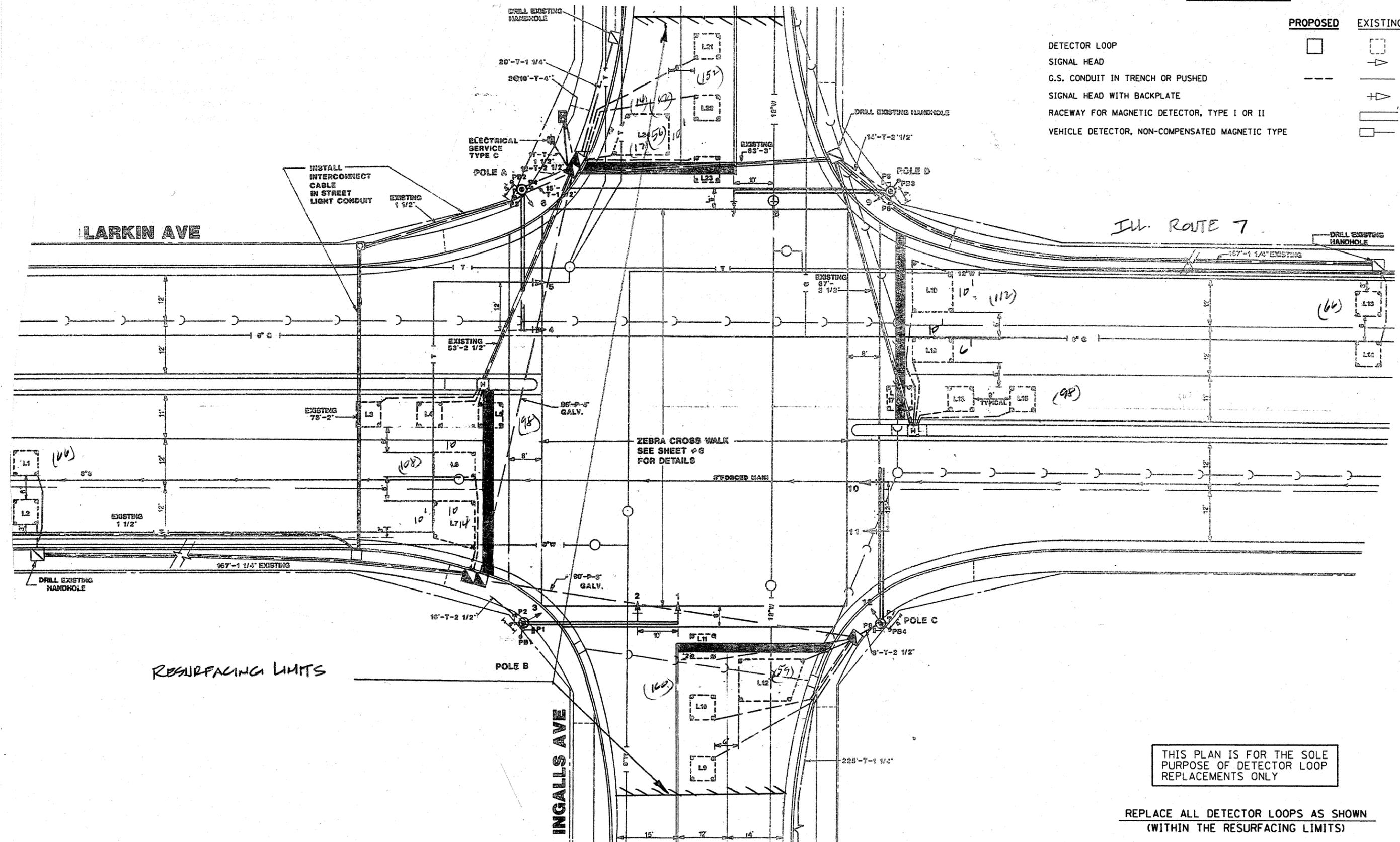
REPLACE ALL DETECTOR LOOPS AS SHOWN (WITHIN THE RESURFACING LIMITS)

| CODE     | QUANTITY | UNIT | ITEM                       |
|----------|----------|------|----------------------------|
| 86600600 | 466      | FOOT | DETECTOR LOOP, REPLACEMENT |

|  |                            |                |           |   |   |   |           |          |                |             |    |
|--|----------------------------|----------------|-----------|---|---|---|-----------|----------|----------------|-------------|----|
| FILE NAME =                              | USER NAME = kanthaphixaybc | DESIGNED - BCK | REVISED - | <b>STATE OF ILLINOIS<br/>DEPARTMENT OF TRANSPORTATION</b> | <b>DISTRICT ONE - DETECTOR LOOP REPLACEMENT<br/>ILL. ROUTE 7 @ BLACK ROAD</b> | F.A. RTE. =                                   | SECTION = | COUNTY = | TOTAL SHEETS = | SHEET NO. = |    |
| es:\p\work\PIWIDOT\KANTHAPHIXAYBC\d01126 | 4\traffic\legend.v7.dgn    | DRAWN - BCK    | REVISED - |   |   | 856   | 28A-3     | RS-1     | WILL           | 28          | 16 |
| PLOT SCALE = 39.9368' / IN.              | CHECKED - DAD              | REVISED -      | REVISED - |   |   | CONTRACT NO.                                  |           |          |                |             |    |
| PLOT DATE = 4/3/2009                     | DATE -                     | REVISED -      | REVISED - |   |   | FED. ROAD DIST. 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 | 973      | FOOT | DETECTOR LOOP, REPLACEMENT |

FILE NAME =  
 c:\p\work\PIWIDOT\KANTHAPHIXAYBC\d01126

USER NAME = kanthaphixaybc  
 \traffic.legend.v7.dgn  
 PLOT SCALE = 39.9368' / IN.  
 PLOT DATE = 4/3/2009

DESIGNED - BCK  
 DRAWN - BCK  
 CHECKED - DAD  
 DATE

REVISED -  
 REVISED -  
 REVISED -  
 REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

DISTRICT ONE - DETECTOR LOOP REPLACEMENT  
 ILL. ROUTE 7 @ INGALLS AVE.

| F.A.P. RTE. | SECTION    | COUNTY | TOTAL SHEETS | SHEET NO. |
|-------------|------------|--------|--------------|-----------|
| 856         | 80X-3 RS-1 | will   | 38           | 17        |

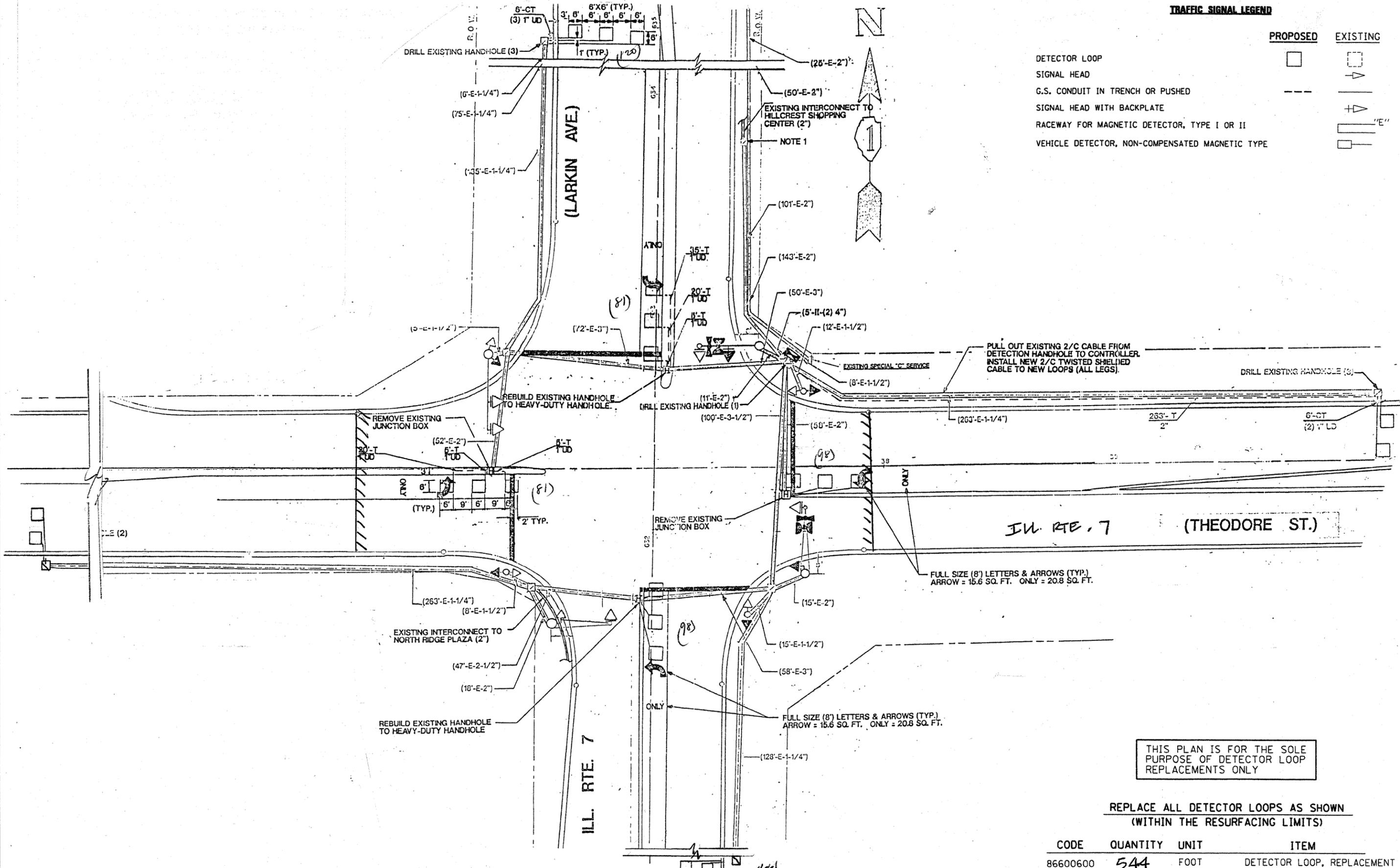
CONTRACT NO.

SCALE: NONE SHEET NO. C OF 7 SHEETS STA. TO STA.

FED. ROAD DIST. 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 | 544      | FOOT | DETECTOR LOOP, REPLACEMENT |

FILE NAME =  
c:\pwworksp\pwwidot\KANTHAPHIXAYBC\d01126

USER NAME = kanthaphixaybc  
DRAWN - BCK  
PLOT SCALE = 3/4" = 1' IN.  
PLOT DATE = 4/3/2009

DESIGNED - BCK  
CHECKED - DAD  
DATE

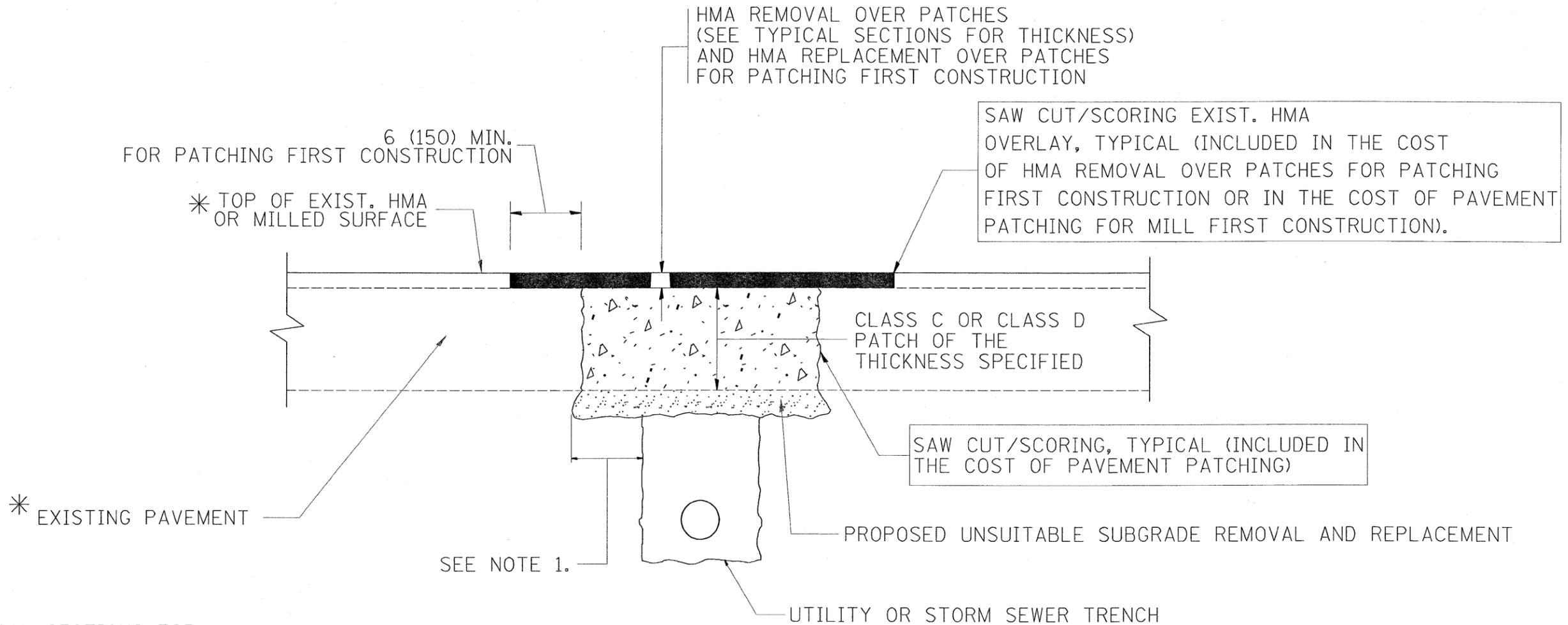
REVISED -  
REVISED -  
REVISED -  
REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE - DETECTOR LOOP REPLACEMENT  
ILL. ROUTE 7 @ THEODORE ST.  
SCALE: NONE SHEET NO. 7 OF 7 SHEETS STA. TO STA.

| F.A.P. RTE. | SECTION    | COUNTY | TOTAL SHEETS | SHEET NO. |
|-------------|------------|--------|--------------|-----------|
| 056         | 85X-3 R3-1 | will   | 28           | 18        |

CONTRACT NO.



\* 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 = estmoblek | DESIGNED - R. SHAH | REVISED - A. ABBAS 04-27-98 | <b>STATE OF ILLINOIS<br/>DEPARTMENT OF TRANSPORTATION</b> | <b>PAVEMENT PATCHING FOR<br/>HMA SURFACED PAVEMENT</b> |                         |              | F.A.P. RTE. 856                            | SECTION 28X-3 RS-1 | COUNTY WILL | TOTAL SHEETS 28 | SHEET NO. 19 |
| ci:\pwork\pwork\estmoblek\d0145897\d0145897.dgn |                       | DRAWN -            | REVISED - R. BORO 01-01-07  |   | SCALE: NONE  | SHEET NO. 1 OF 1 SHEETS | STA. TO STA. | <b>BD400-04 (BD-22)</b> CONTRACT NO. 60H74 |                    |             |                 |              |
|   |                       | CHECKED -          | REVISED - R. BORO 09-04-07  |   |  |                         |              |  |                    |             |                 |              |
|   |                       | DATE - 10-25-94    | REVISED - K. ENG 10-27-08   |   |  |                         |              |  |                    |             |                 |              |
|   |                       |                    |                             |   |  |                         |              |  |                    |             |                 |              |

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

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

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

SEE STATE STANDARD 606001

18" (450) MAX.

EXISTING OR PROPOSED HMA SURFACE (IF APPLICABLE)

1/4" (5) \*\*

EXISTING SIDEWALK, DRIVEWAY, MEDIAN SURFACE OR GROUND.

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

EXISTING CONCRETE PAVEMENT, CONCRETE BASE COURSE OR FLEXIBLE PAVEMENT

3" (75) MIN.

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

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

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

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

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.

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.

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

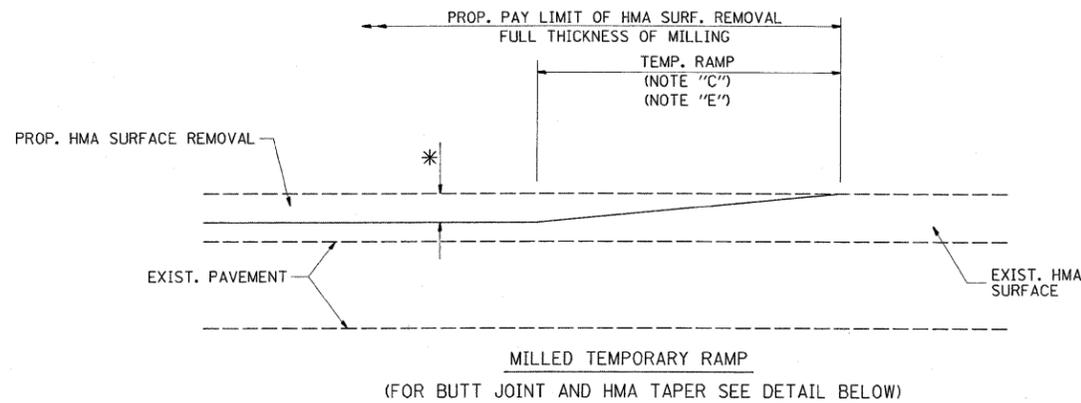
**BASIS OF PAYMENT:**

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

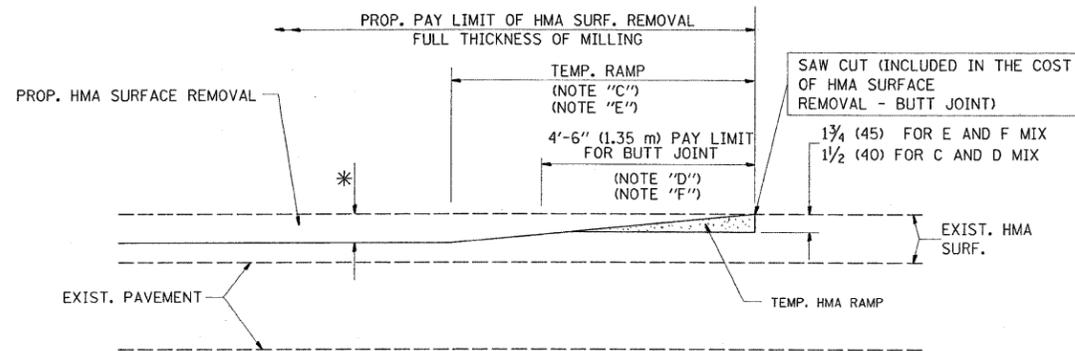
# CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT

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

|   |                       |                      |                             |   |  |                         |            |                         |              |              |  |
|---|-----------------------|----------------------|-----------------------------|---|--|-------------------------|------------|-------------------------|--------------|--------------|--|
| FILE NAME =                                       | USER NAME = estumalek | DESIGNED - A. HOUSEH | REVISED - R. SHAH 10-03-96  | <b>STATE OF ILLINOIS<br/>DEPARTMENT OF TRANSPORTATION</b> | <b>CURB OR CURB AND GUTTER<br/>REMOVAL AND REPLACEMENT</b> | F.A.P. RTE.             | SECTION    | COUNTY                  | TOTAL SHEETS | SHEET NO.    |  |
| es:\pwwork\p\WIDOT\ESTIMABLEK\d0145897\estStd.dgn |                       | DRAWN -              | REVISED - A. ABBAS 03-21-97 |   |  | 856                     | 28X-3 RS-1 | WILL                    | 28           | 20           |  |
| PLOT SCALE = 50.0000' / IN.                       |                       | CHECKED -            | REVISED - M. GOMEZ 01-22-01 |   |  | <b>BD600-06 (BD-24)</b> |            | CONTRACT NO. 60H74      |              |              |  |
| PLOT DATE = 6/26/2009                             |                       | DATE - 03-11-94      | REVISED - R. BORO 01-01-07  |   |  | SCALE: NONE             |            | SHEET NO. 1 OF 1 SHEETS |              | STA. TO STA. |  |
| FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT   |                       |                      |                             |   |  |                         |            |                         |              |              |  |

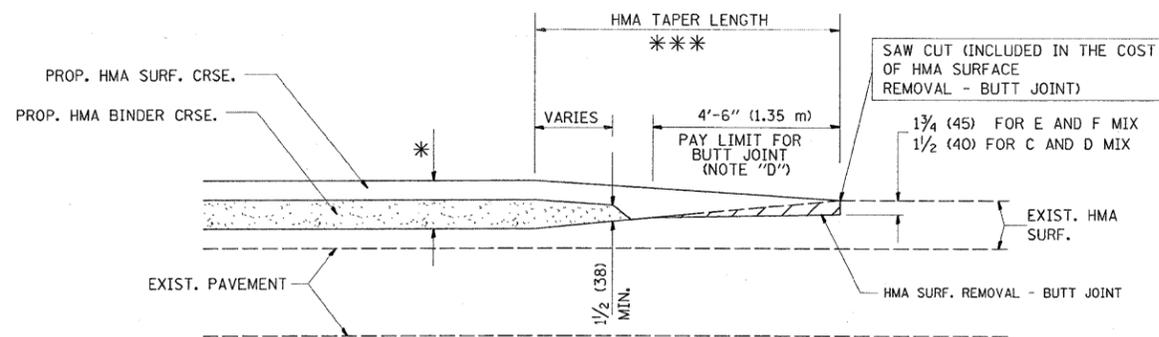


OPTION 1

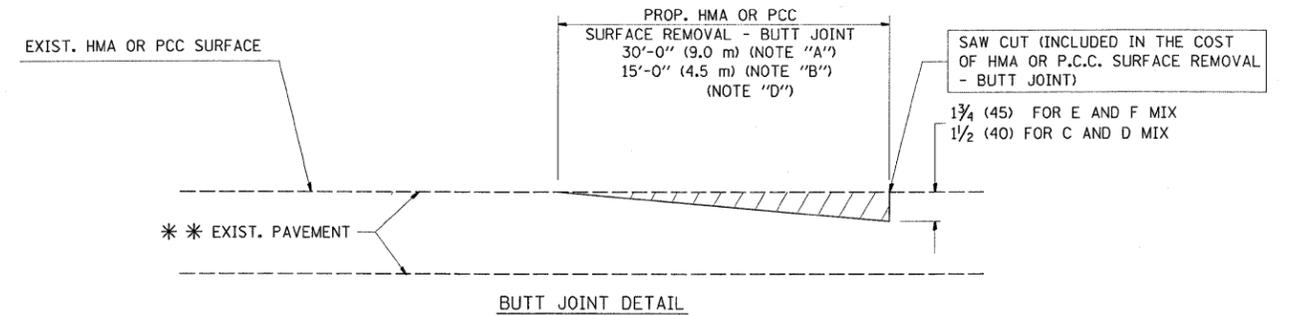


HMA CONSTRUCTED TEMPORARY RAMP  
(FOR BUTT JOINT AND HMA TAPER SEE DETAIL BELOW)

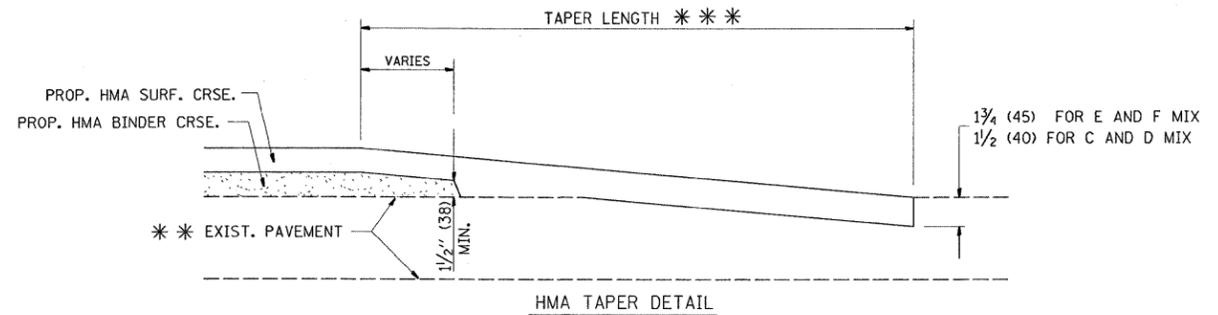
OPTION 2  
TYPICAL TEMPORARY RAMP



TYPICAL BUTT JOINT AND HMA TAPER  
FOR MILLING AND RESURFACING



BUTT JOINT DETAIL



TYPICAL BUTT JOINT AND HMA TAPER  
FOR RESURFACING ONLY

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

NOTES

- A: MAINLINE ROADWAYS AND MAJOR SIDE ROADS.
  - B: MINOR SIDE ROADS.
  - C: THE TEMP. RAMP SHALL BE CONSTRUCTED IMMEDIATELY UPON REMOVAL OF THE EXISTING HMA SURFACE.
  - D: THE BUTT JOINT SHALL BE CONSTRUCTED IMMEDIATELY PRIOR TO PLACING THE PROPOSED HMA COURSES.
  - E: TAPER THE TEMP. RAMP AT A RATE OF 3'-0" (900 mm) PER 1 INCH (25 mm) OF MILLING THICKNESS.
  - F: INSTALLATION AND REMOVAL OF THE 4'-6" (1.35 m) TEMP. RAMP IS INCLUDED IN COST OF HMA SURFACE REMOVAL - BUTT JOINT
  - G: SEE ARTICLE 406.08 AND 406.14 OF THE STANDARD SPECIFICATIONS FOR "HMA AND/OR PCC SURFACE REMOVAL, BUTT JOINT".
- \* SEE TYPICAL SECTIONS FOR MILLING THICKNESS.
- \*\*\* 20'-0" (6.1 m) PER 1 (25) RESURFACING (NOTE "A")  
10'-0" (3.0 m) PER 1 (25) RESURFACING (NOTE "B")

BASIS OF PAYMENT:

THE BUTT JOINT WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER SQUARE YARD (SQUARE METER) FOR "HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT" OR FOR "PORTLAND CEMENT CONCRETE SURFACE REMOVAL - BUTT JOINT".

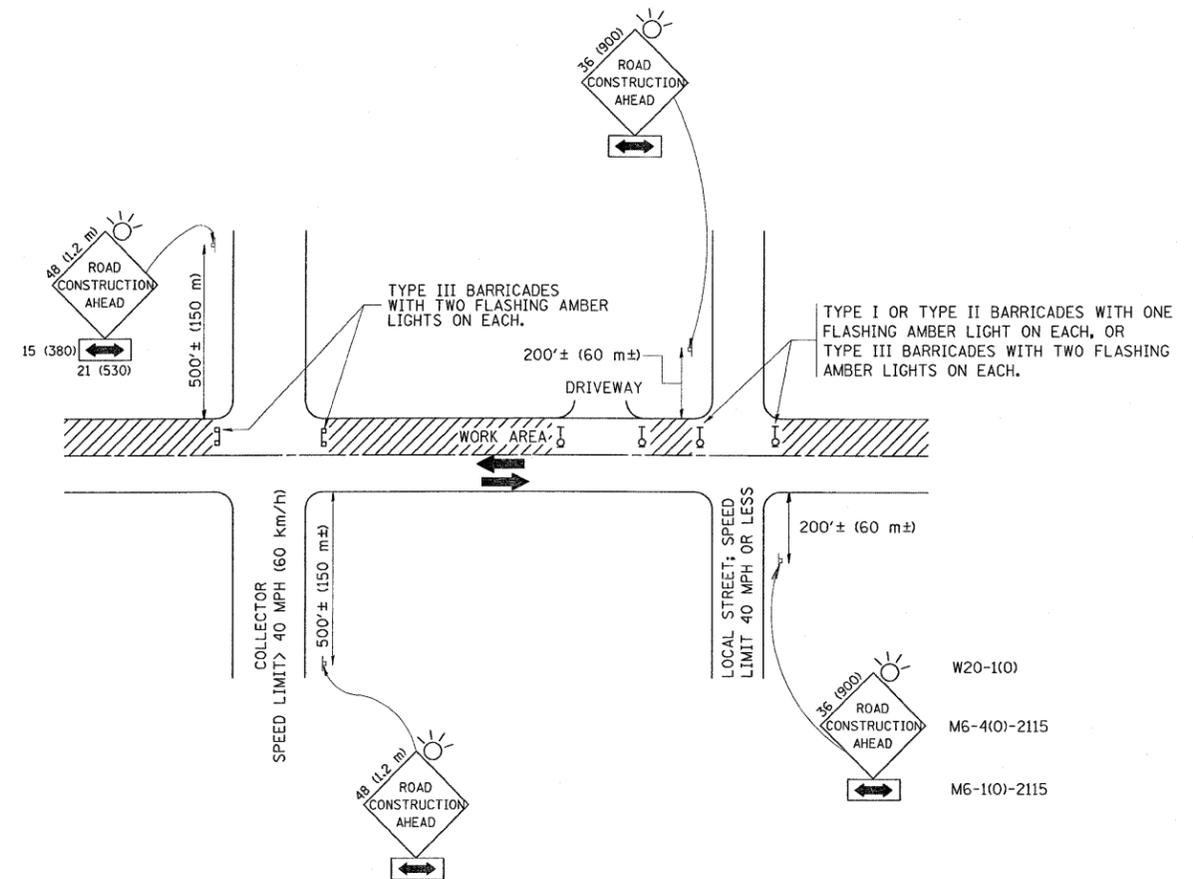
ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

|  |                             |                       |                             |
|--|-----------------------------|-----------------------|-----------------------------|
| FILE NAME =                                    | USER NAME = est:moblek      | DESIGNED - M. DE YONG | REVISED - R. SHAH 10-25-94  |
| ct:\pwork\pwork\est:moblek\d8145697\01\stl.dgn |                             | DRAWN -               | REVISED - A. ABBAS 03-21-97 |
|  | PLOT SCALE = 51.8039' / IN. | CHECKED -             | REVISED - M. GOMEZ 04-06-01 |
|  | PLOT DATE = 6/25/2009       | 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.P. RTE. 856 | SECTION 28X-3 RS-1 | COUNTY WILL        | TOTAL SHEETS 20 | SHEET NO. 21 |
|   |                         |              | BD400-05 BD32   |                    | CONTRACT NO. 60H74 |                 |              |
| 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
- 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:
    - 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.
    - 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.
  - SIDE ROAD WITH A SPEED LIMIT GREATER THAN 40 MPH (60 km/h) AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
    - 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.
    - 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.

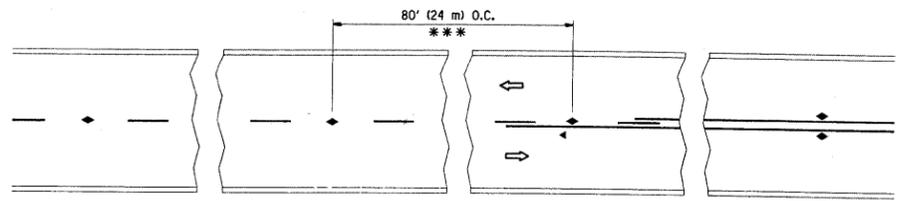
|  |                             |                |                                 |
|--|-----------------------------|----------------|---------------------------------|
| FILE NAME =  | USER NAME = estjmblek       | DESIGNED - LHA | REVISED - J. OBERLE 10-18-95    |
| ct:\pw\work\pwidot\estjmblek\d8145897\d8145897.dgn |                             | DRAWN -        | REVISED - A. HOUSEH 03-06-96    |
|  | PLOT SCALE = 51.8239" / IN. | CHECKED -      | REVISED - A. HOUSEH 10-15-96    |
|  | PLOT DATE = 6/25/2009       | 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

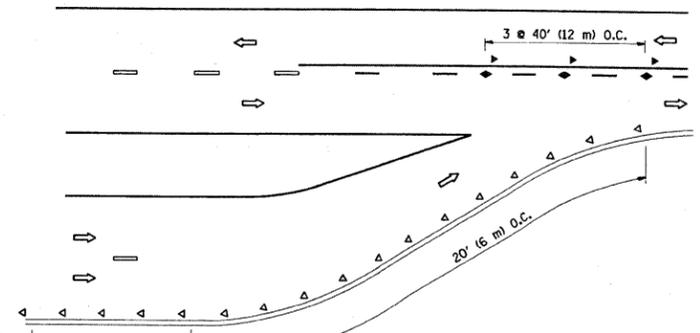
SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.

|   |            |        |                    |           |
|---|------------|--------|--------------------|-----------|
| F.A.P. RTE.                                       | SECTION    | COUNTY | TOTAL SHEETS       | SHEET NO. |
| 856   | 28X-3 RS-1 | WILL   | 28                 | 22        |
| TC-10   |            |        | CONTRACT NO. 60H74 |           |
| FED. ROAD DIST. NO. 1 (ILLINOIS) FED. AID PROJECT |            |        |                    |           |

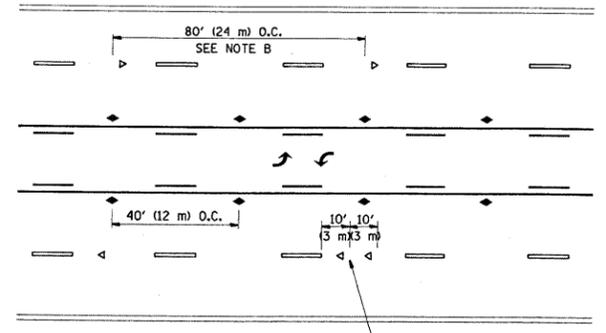


\*\*\* REDUCE TO 40' (12 m) O.C. ON CURVES WITH POSTED OR ADVISORY SPEED 45 M.P.H. (70 km/h) OR LESS.

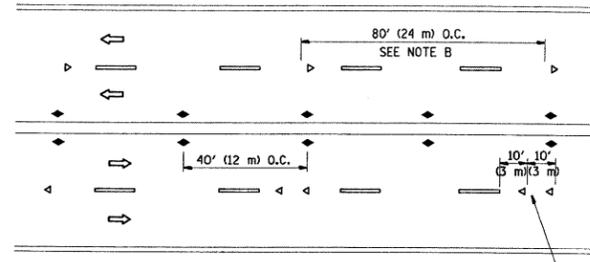
TWO-LANE/TWO-WAY



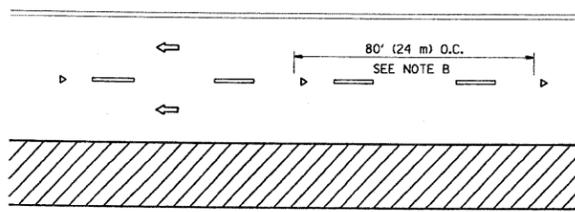
LANE REDUCTION TRANSITION



TWO-WAY LEFT TURN



MULTI-LANE/UNDIVIDED



MULTI-LANE/DIVIDED

GENERAL NOTES

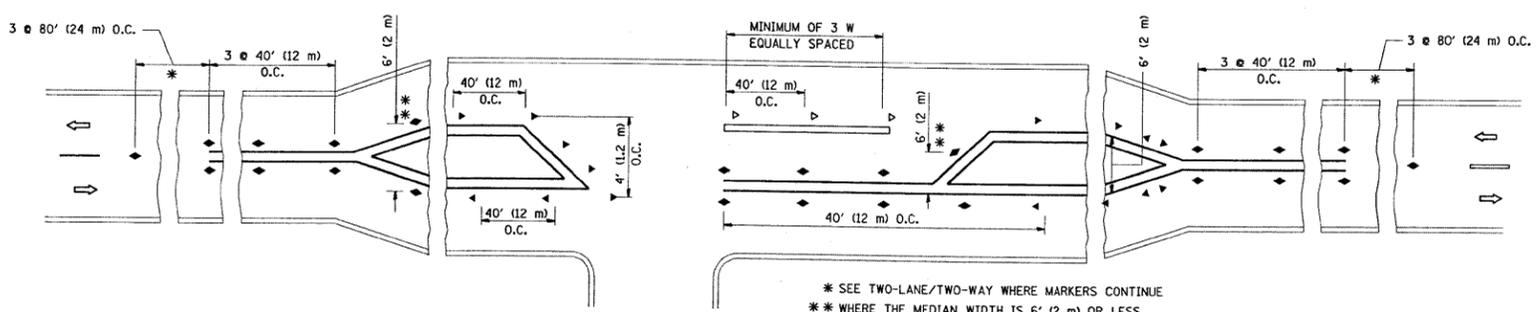
1. MARKERS USED WITH DASHED LINES SHALL BE CENTERED IN THE GAP BETWEEN SEGMENTS.
2. MARKERS USED ADJACENT TO SOLID LINES SHALL BE OFFSET 2 TO 3 (50 TO 75) TOWARD TRAFFIC AS SHOWN.
3. MARKERS THROUGH TANGENTS LESS THAN 500' (150 m) IN LENGTH BETWEEN CURVES SHALL BE INSTALLED AT THE LESSER OF THE TWO CURVE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

SYMBOLS

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

LANE MARKER NOTES

- 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.
- A. USE DOUBLE LANE LINE MARKERS SPACED AS SHOWN.



LEFT TURN

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

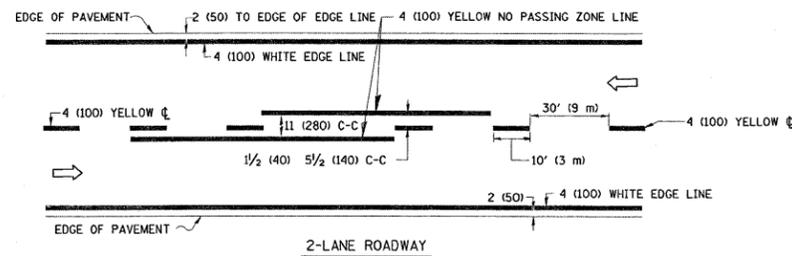
All dimensions are in inches (millimeters) unless otherwise shown.

|  |                             |            |                                 |
|--|-----------------------------|------------|---------------------------------|
| FILE NAME =                                      | USER NAME = estimablek      | DESIGNED - | REVISED - T. RAMMACHER 09-19-94 |
| cd:\pw\work\pidot\estimablek\d0145897\DotStd.dgn |                             | DRAWN -    | REVISED - T. RAMMACHER 03-12-99 |
|  | PLOT SCALE = 51.8039' / IN. | CHECKED -  | REVISED - T. RAMMACHER 01-06-00 |
|  | PLOT DATE = 6/25/2009       | DATE -     | REVISED -                       |

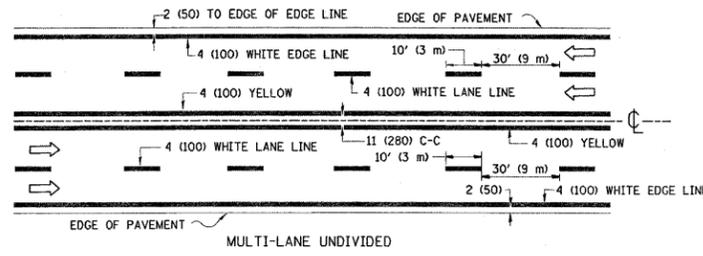
STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

| TYPICAL APPLICATIONS                                     |                         |      |         |
|--|-------------------------|------|---------|
| RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT) |                         |      |         |
| SCALE: NONE  | SHEET NO. 1 OF 1 SHEETS | STA. | TO STA. |

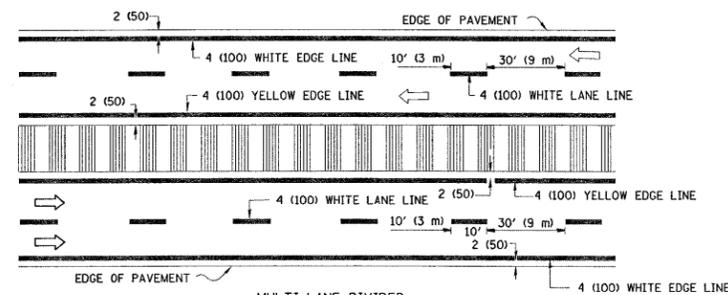
| F.A.P. RTE.                                     | SECTION    | COUNTY | TOTAL SHEETS       | SHEET NO. |
|---|------------|--------|--------------------|-----------|
| 856   | 28X-3 RS-1 | WILL   | 28                 | 23        |
| TC-11   |            |        | CONTRACT NO. 60H74 |           |
| FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT |            |        |                    |           |



2-LANE ROADWAY



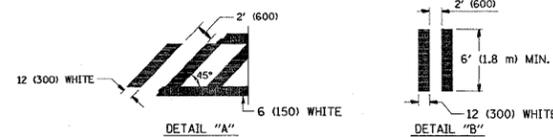
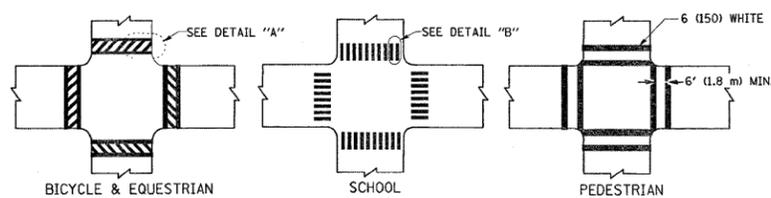
MULTI-LANE UNDIVIDED



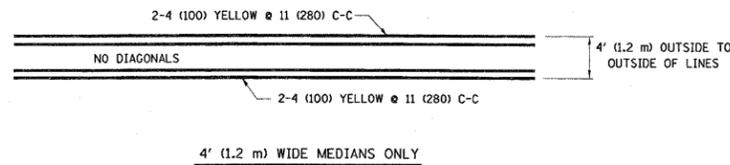
MULTI-LANE DIVIDED WITH MOUNTABLE MEDIAN

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

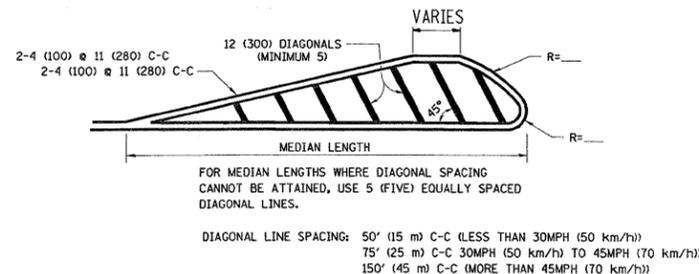
TYPICAL LANE AND EDGE LINE MARKING



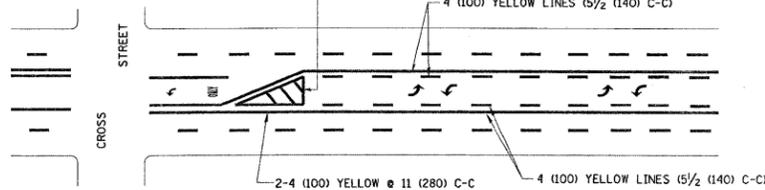
TYPICAL CROSSWALK MARKING



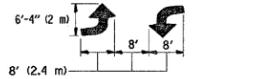
4' (1.2 m) WIDE MEDIANS ONLY



MEDIANS OVER 4' (1.2 m) WIDE

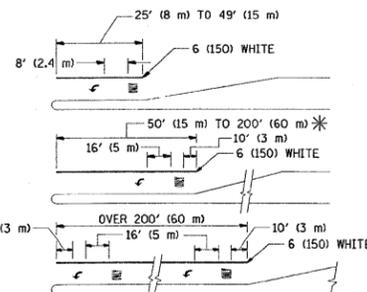


A MINIMUM OF TWO PAIRS OF TURN ARROWS SHALL BE USED, WHITE IN COLOR. ADDITIONAL PAIRS SHALL BE PLACED AT 200' (60 m) TO 300' (90 m) INTERVALS.



MEDIAN WITH TWO-WAY LEFT TURN LANE

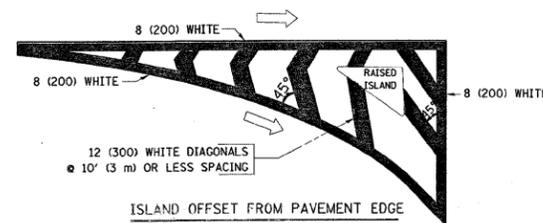
TYPICAL PAINTED MEDIAN MARKING



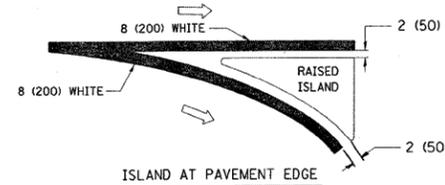
FULL SIZE LETTERS 8' (2.4 m) AND ARROWS SHALL BE USED. AREA = 15.6 SQ. FT. (1.5 m<sup>2</sup>) ONLY AREA = 20.8 SQ. FT. (1.9 m<sup>2</sup>)

TYPICAL LEFT (OR RIGHT) TURN LANE

TYPICAL TURN LANE MARKING



ISLAND OFFSET FROM PAVEMENT EDGE



ISLAND AT PAVEMENT EDGE

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)<br>2 @ 4 (100)   | SOLID<br>SOLID                  | YELLOW<br>YELLOW  | 5 1/2 (140) C-C FROM SKIP-DASH CENTERLINE<br>11 (280) C-C<br>OMIT SKIP-DASH CENTERLINE BETWEEN   |
| LANE LINES  | 4 (100)<br>5 (125) ON FREEWAYS   | SKIP-DASH<br>SKIP-DASH          | WHITE<br>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<br>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<br>8' (2.4m) LEFT ARROW   | SKIP-DASH AND SOLID<br>IN PAIRS | YELLOW<br>WHITE   | 10' (3 m) LINE WITH 30' (9 m) SPACE FOR SKIP-DASH; 5 1/2 (140) C-C BETWEEN SOLID LINE AND SKIP-DASH LINE<br>SEE TYPICAL TWO-WAY LEFT TURN MARKING DETAIL           |
| CROSSWALK LINES (PEDESTRIAN)<br>A. DIAGONALS (BIKE & EQUESTRIAN)<br>B. LONGITUDINAL BARS (SCHOOL) | 2 @ 6 (150)<br>12 (300) @ 45°<br>12 (300) @ 90°  | SOLID<br>SOLID<br>SOLID         | WHITE<br>WHITE<br>WHITE                                 | NOT LESS THAN 6' (1.8 m) APART<br>2' (600) APART<br>2' (600) APART<br>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°<br>NO DIAGONALS USED FOR 4' (1.2 m) WIDE MEDIANS | SOLID                           | YELLOW;<br>TWO WAY TRAFFIC<br>WHITE;<br>ONE WAY TRAFFIC | 11 (280) C-C FOR THE DOUBLE LINE<br>SEE TYPICAL PAINTED MEDIAN MARKING.  |
| GORE MARKING AND CHANNELIZING LINES   | 8 (200) WITH 12 (300) DIAGONALS @ 45°  | SOLID                           | WHITE   | DIAGONALS:<br>15' (4.5 m) C-C (LESS THAN 30MPH (50 km/h))<br>20' (6 m) C-C 30MPH (50 km/h) TO 45MPH (70 km/h)<br>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<br>AREA OF:<br>"R"=3.6 SQ. FT. (0.33 m <sup>2</sup> ) EACH<br>"X"=54.0 SQ. FT. (5.0 m <sup>2</sup> )                                     |
| SHOULDER DIAGONALS  | 12 (300) @ 45°   | SOLID                           | WHITE - RIGHT<br>YELLOW - LEFT                          | 50' (15 m) C-C (LESS THAN 30MPH (50 km/h))<br>75' (25 m) C-C (30 MPH (50 km/h) TO 45MPH (70 km/h))<br>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.

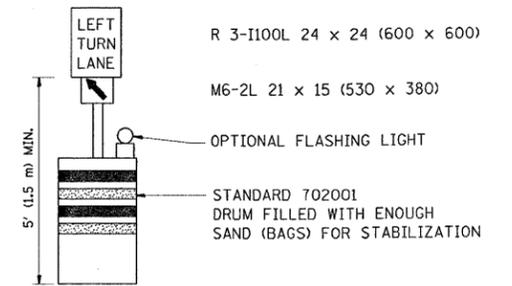
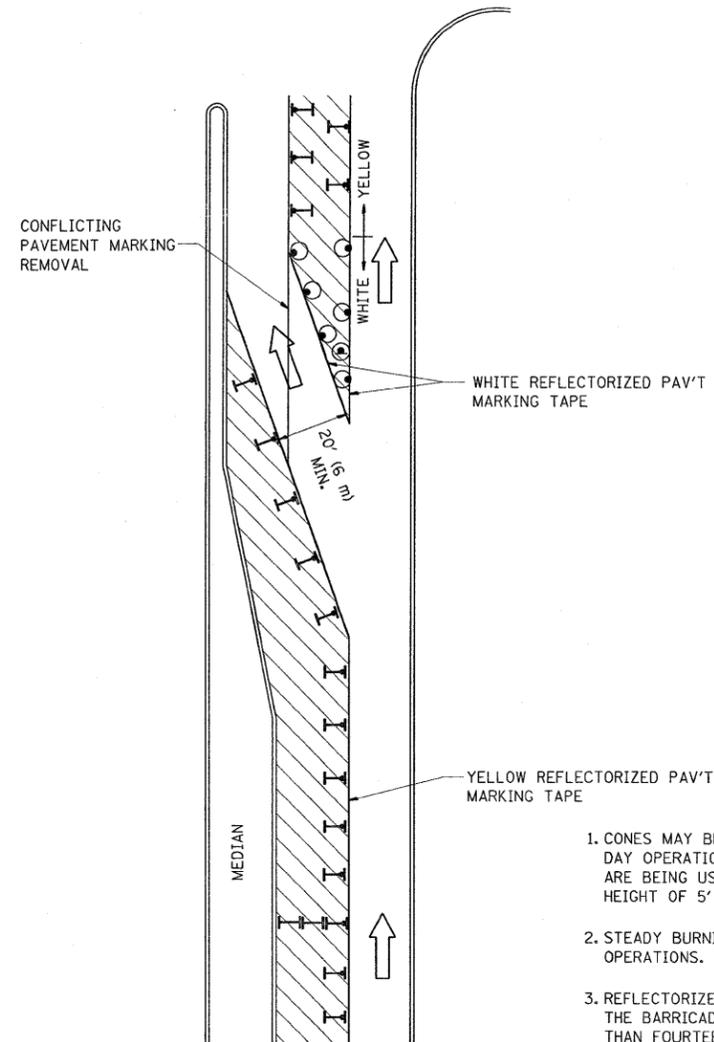
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| ct:\pe_work\p1wdot\estmablek\d0145997\d | estmablek                     | DRAWN -          | REVISED - A. HOUSEH 10-09-96    |
|   | PLOT SCALE = 5/16039 1/16 IN. | CHECKED -        | REVISED - A. HOUSEH 10-17-96    |
|   | PLOT DATE = 6/25/2009         | 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.P. RTE.                                       | SECTION    | COUNTY | TOTAL SHEETS       | SHEET NO. |
| 856   | 28X-3 RS-1 | WILL   | 28                 | 24        |
| TC-13   |            |        | CONTRACT NO. 60H74 |           |
| 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.

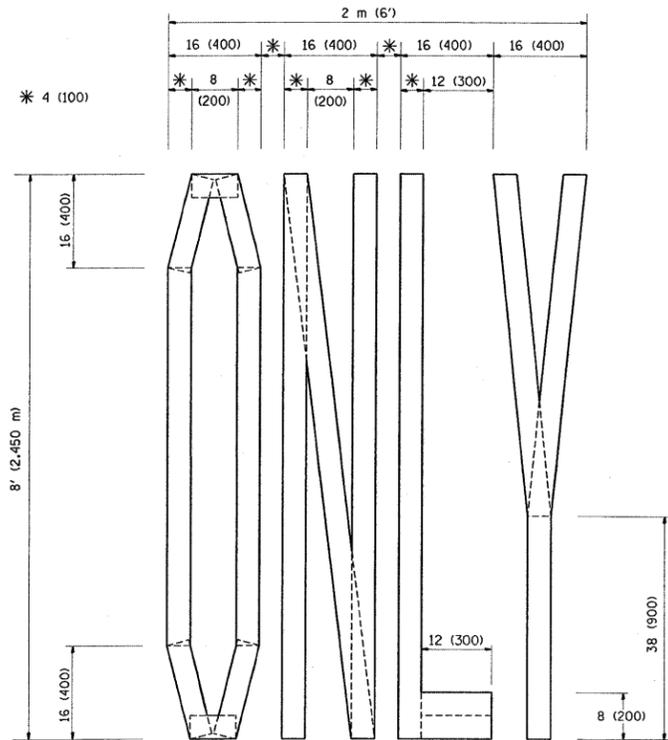
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| e:\pwwork\pwwork\estmobiek\d8145897\d8145897.dgn | 15td.dgn                    | DRAWN -    | REVISED - A. HOUSEH 11-07-95   |
|  | PLOT SCALE = 51.8039' / IN. | CHECKED -  | REVISED - A. HOUSEH 10-12-96   |
|  | PLOT DATE = 6/25/2009       | DATE -     | REVISED -T. RAMMACHER 01-06-00 |

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

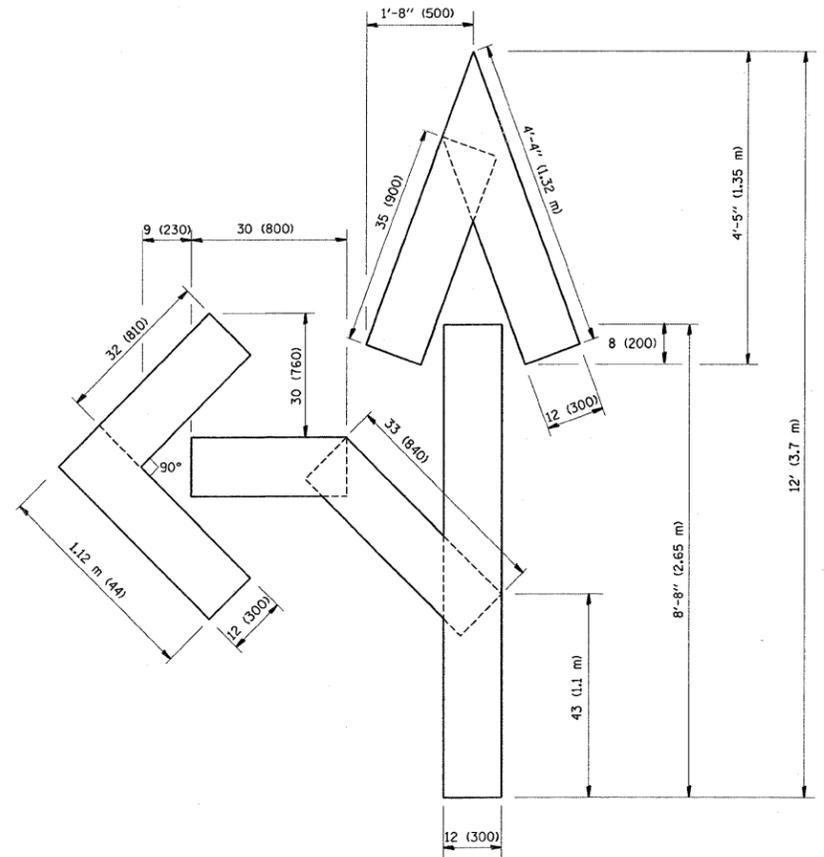
**TRAFFIC CONTROL AND PROTECTION AT TURN BAYS  
(TO REMAIN OPEN TO TRAFFIC)**

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

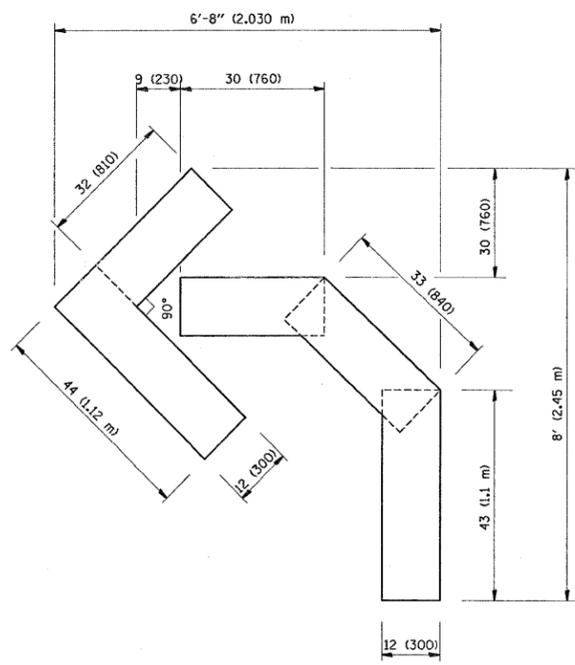
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|---|------------|--------------------|--------------|-----------|
| F.A.P. RTE.                                     | SECTION    | COUNTY             | TOTAL SHEETS | SHEET NO. |
| 856   | 28X-3 RS-1 | WILL               | 28           | 25        |
| TC-14   |            | CONTRACT NO. 60H74 |              |           |
| 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.

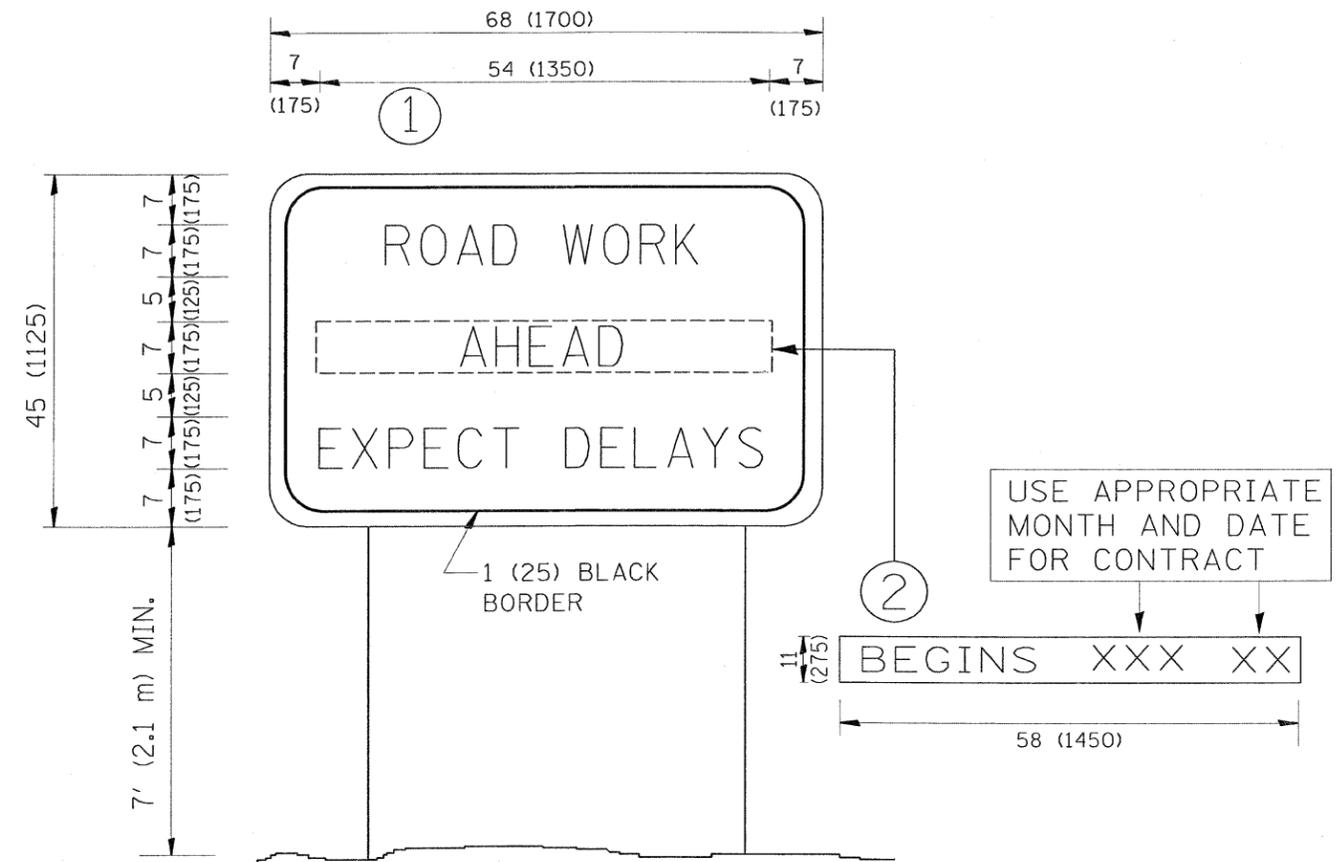
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| FILE NAME =                             | USER NAME = estmablek       | DESIGNED -      | REVISED -T. RAMMACHER 06-05-96 |
| cr\pwork\pwork\dot\estmablek\d8145897.D | tStd.dgn                    | DRAWN -         | REVISED -T. RAMMACHER 11-04-97 |
|   | PLOT SCALE = 51.8039' / IN. | CHECKED -       | REVISED -T. RAMMACHER 03-02-98 |
|   | PLOT DATE = 6/25/2009       | 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.P. RTE. 856                                 | SECTION 28X-3 RS-1 | COUNTY WILL        | TOTAL SHEETS 28 | SHEET NO. 26 |
| TC-16   |                    | CONTRACT NO. 60H74 |                 |              |
| FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT |                    |                    |                 |              |



**NOTES:**

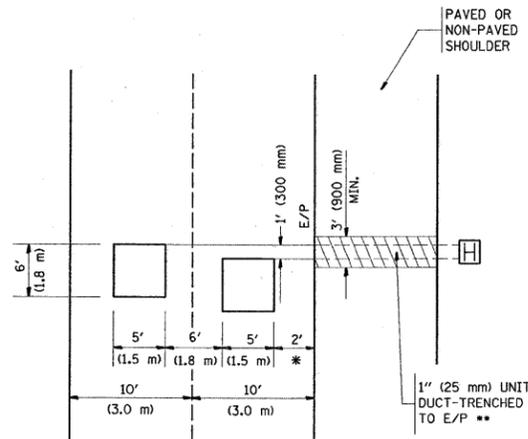
1. USE BLACK LETTERING ON ORANGE BACKGROUND.
2. ERECT SIGNS IN ADVANCE OF THE LOCATION FOR THE "ROAD CONSTRUCTION AHEAD" SIGN AT LOCATIONS AS DIRECTED BY THE ENGINEER.
3. ERECT SIGN ① WITH INSTALLED PANEL ② ONE WEEK PRIOR TO THE START OF CONSTRUCTION.
4. REMOVE PANEL ② SOON AFTER THE START OF CONSTRUCTION.
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 = estimoblek      | DESIGNED - | REVISED - R. MIRS 09-15-97      | <b>STATE OF ILLINOIS<br/>DEPARTMENT OF TRANSPORTATION</b> | <b>ARTERIAL ROAD<br/>INFORMATION SIGN</b> | F.A.P. RTE.  | SECTION                 | COUNTY             | TOTAL SHEETS | SHEET NO.   |  |
| c:\pwwork\pwwork\estimoblek\d0145897.d | est5td.dgn                  | DRAWN -    | REVISED - R. MIRS 12-11-97      |   |   | 856          | 28X-3 RS-1              | WILL               | 28           | 27  |  |
|  | PLOT SCALE = 51.8039' / IN. | CHECKED -  | REVISED - T. RAMMACHER 02-02-99 |   |   | <b>TC-22</b> |                         | CONTRACT NO. 60H74 |              |   |  |
|  | PLOT DATE = 6/25/2009       | DATE -     | REVISED - C. JUCIUS 01-31-07    |   |   | SCALE: NONE  | SHEET NO. 1 OF 1 SHEETS | STA.               | TO STA.      | 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.

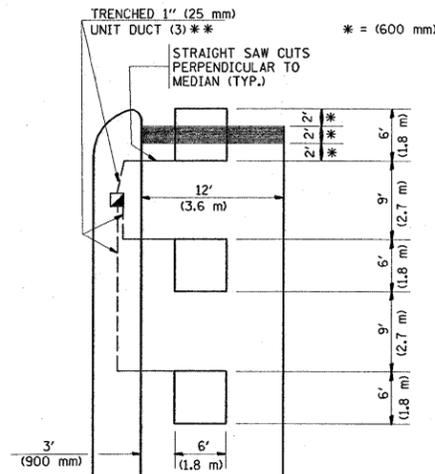


\* = (600 mm)

\*\* 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)**

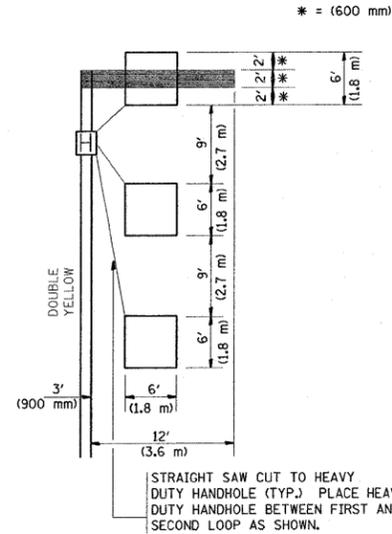
HANDHOLE LOCATION MAY VARY DEPENDING ON GEOMETRICS AND DESIGN OF TRAFFIC SIGNALS. HEAVY-DUTY HANDHOLES TO BE USED WHEN THE MEDIAN IS MOUNTABLE. REFER TO STANDARD 814001 TO ENSURE THAT HANDHOLE FITS IN MEDIAN.



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

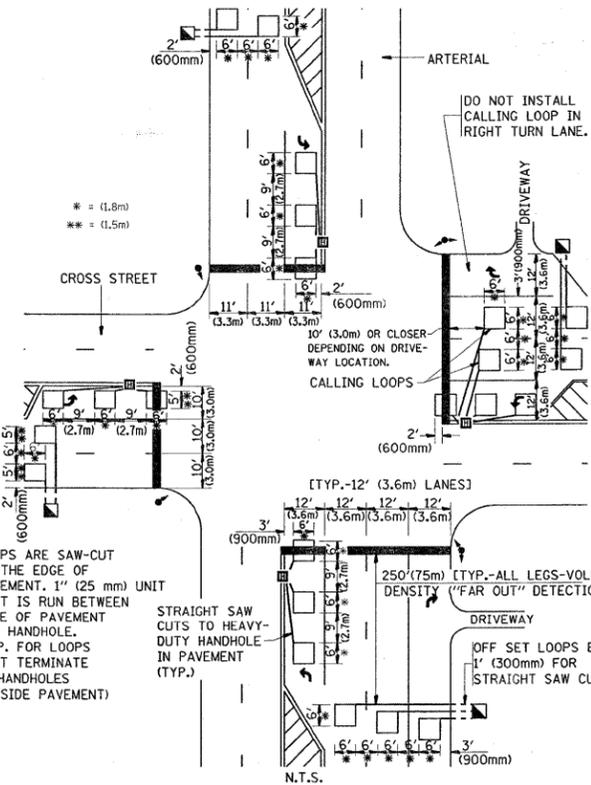
NOTE: DUAL LEFT TURNS NOT SHOWN REFER TO PLAN SHEET FOR DETECTOR LOOP REPLACEMENT

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



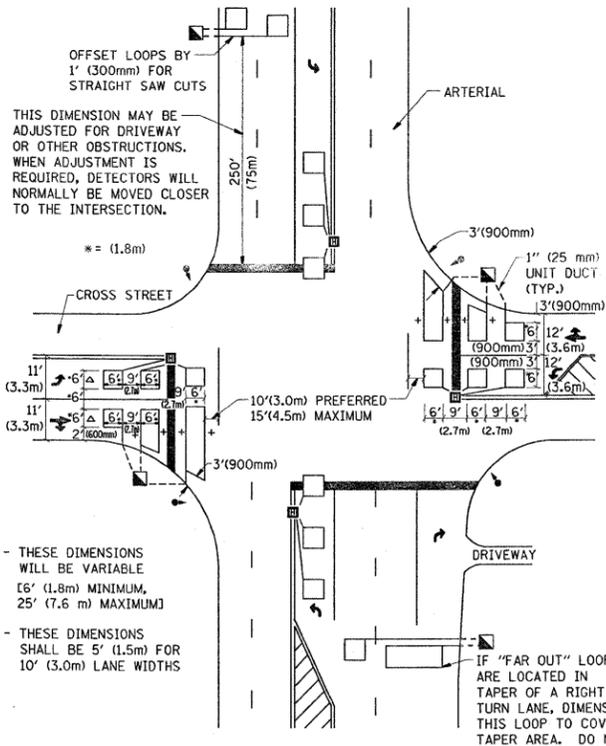
NOTE: DUAL LEFT TURNS NOT SHOWN REFER TO PLAN SHEET FOR DETECTOR LOOP REPLACEMENT

**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 SEPARATELY. THIS ITEM IS INCIDENTAL TO THE PAY ITEM FOR DETECTOR LOOPS.
- \* ONE DIMENSION OF ALL DETECTOR LOOPS SHALL BE SIX FEET (1.8 m)
- \* EACH LANE OF NON-LOCKING, PRESENCE DETECTION AND EACH LANE OF A DOUBLE LEFT TURN LANE REQUIRES A SEPARATE INDUCTIVE LOOP DETECTOR AND LEAD IN CABLE.
- \* WHEN NON-LOCKING, PRESENCE DETECTION IS USED, MORE THAN ONE LOOP PER LANE IS REQUIRED BEHIND THE STOP BAR (i.e. 1-1/2, 1-3/4, 2).
- \* WHEN SYSTEM LOOPS ARE REQUIRED ON AN APPROACH OF AN INTERSECTION, THE LOOPS USED FOR VOLUME DENSITY AND INTERSECTION TIMING SHALL ALSO BE USED AS SYSTEM DETECTORS. EACH ONE OF THESE TYPE OF LOOPS REQUIRES A SEPARATE TWO CONDUCTOR NO. 14 TWISTED SHIELDED CABLE AND A SEPARATE INDUCTIVE LOOP DETECTOR WHEN NEW CONTROLLERS ARE UTILIZED. THE DESIGNER SHALL LABEL THESE TYPES OF LOOPS AS "INTERSECTION AND SAMPLING (SYSTEM) DETECTORS" ON THE SIGNAL LAYOUT, THE INTERCONNECT PLAN AND THE SYSTEM CABLE PLAN. WHEN AN EXISTING CONTROLLER IS UTILIZED FOR THIS TYPE OF DETECTION, THE PAY ITEM "INDUCTIVE LOOP DETECTOR WITH SYSTEM OUTPUT" SHOULD BE USED.

**PLACEMENT OF DETECTORS**

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

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

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

**NOTE:**

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

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

|  |                       |            |           |   |  |                         |              |   |         |        |              |           |
|--|-----------------------|------------|-----------|---|--|-------------------------|--------------|---|---------|--------|--------------|-----------|
| FILE NAME =                            | USER NAME = estimblek | DESIGNED - | REVISED - | <b>STATE OF ILLINOIS<br/>DEPARTMENT OF TRANSPORTATION</b> | <b>DISTRICT 1 - DETECTOR LOOP INSTALLATION<br/>DETAILS FOR ROADWAY RESURFACING</b> |                         |              | F.A.P. RTE.   | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| ca:\p-work\pwidot\estimblek\d0145897.d | US.tj.dgn             | DRAWN -    | REVISED - |   | 856  | 28X-3 RS-1              | WILL         | 28  | 28      |        |              |           |
| PLOT SCALE = 51.8039' / IN.            | CHECKED - R.K.F.      | REVISED -  | REVISED - |   | <b>TS-07</b>   |                         |              | CONTRACT NO. 60H74                                  |         |        |              |           |
| PLOT DATE = 6/25/2009                  | DATE -                | REVISED -  | REVISED - |   | SCALE: NONE  | SHEET NO. 1 OF 1 SHEETS | STA. TO STA. | FED. ROAD DIST. NO. 1   ILLINOIS   FED. AID PROJECT |         |        |              |           |