**DIVISION OF HIGHWAYS** 

# PLANS FOR PROPOSED HIGHWAY

FAU ROUTE 1587 – 123RD ST. & 123RD ST./127TH ST. SECTION: 2004–042 RS
LOCATION 1: (FROM US 45 TO 86TH AVE.)
LOCATION 2: (FROM 80TH AVE. TO ILL 43)
MAINTENANCE RESURFACING
COOK COUNTY

C-91-040-04

R. 12 E. TRAFFIC DATA LOC. NO. 1: 2002ADT = 8,200 POSTED SPEED LILMIT = 35 MPH LOCATION #1 IMPROVEMENT BEGINS STA. 17+85 LOC. NO. 2: 2002 ADT = 10,400 POSTED SPEED LIMIT = 35 MPH LOCATION #2 IMPROVEMENT BEGINS STA. 0+00 LOCATION #1 151ST\_\_\_ IMPROVEMENT ENDS STA. 76+21 PALOS TOWNSHIP LOCATION #2 IMPROVEMENT ENDS 5 MILE STA. 45+25

MAP SCALE

GROSS AND NET LENGTH OF LOC. NO. 1 = 5836 LIN. FT. = 1.110 MILES

GROSS AND NET LENGTH OF LOC. NO. 2 = 4525 LIN. FT. = 0.857 MILES

 FAU
 SECTION
 COUNTY
 TOTAL SHEETS NO.

 1587
 2004-042 RS
 COOK
 25
 1

CONTRACT 62677

LOC. 1: D-91-040-04 LOC. 2: D-91-050-04



STATE OF ILLINOIS

DEPARTMENT OF TRANSPORTATION

DIVISION OF HIGHWAYS

SUBMITTED

March 30, 20 05

District Engineer

May 13, 20 05

Engineer of Design and Environment

May 3, 20 05

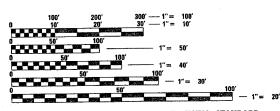
Union Moder to

Director, Division of Highways

PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

#### FOR INDEX OF SHEETS, SEE SHEET NO. 2

THE IMPROVEMENT IS LOCATED IN THE CITY OF PALOS HEIGHTS AND THE VILLAGE OF PALOS PARK IN COOK COUNTY



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

**CONTRACT NO. 62677** 

/29/2005

с:\projects\d105004\d105004aa.m32

ITRICT ONE DESIGN PLAN PREPARATION ENGINEER: I ENG/ISSAM RAYYAN (847)705-4240

\* 3

29:25 03/29/

| <br>F.A.U.<br>RTE. | SECTION        |       | COUN     | TY   | TOTAL   | SHEET<br>NO. |
|--------------------|----------------|-------|----------|------|---------|--------------|
| 1587               | 2004-042       | RS    | COOH     | (    | 25      | 2            |
| STA.               | _N/A           | 7     | O STA    | NZA. |         |              |
| FED. RO            | AD DIST. NO. 1 | ILLIN | DIS FED. | AID  | PROJECT |              |

CONTRACT NO. \_62677\_

#### INDEX OF SHEETS

| SHEET NO. | DESCRIPTION  |
|-----------|--|
| 1         | COVER SHEET  |
| 2         | INDEX OF SHEETS, STANDARDS,<br>AND GENERAL NOTES   |
| 3         | SUMMARY OF QUANTITIES  |
| 4-6       | TYPICAL CROSS SECTIONS   |
| 7-9       | PROPOSED ROADWAY PLAN AND PAVEMENT MARKING PLAN FOR LOCATION NO. 1                       |
| 10-14     | PROPOSED ROADWAY PLAN AND PAVEMENT MARKING PLAN FOR LOCATION NO. 2                       |
| 15        | DETECTOR LOOP REPLACEMENT PLAN FOR LOCATION NO. 1  |
| 16        | FRAMES AND LIDS ADJUSTMENT WITH MILLING; AND FRAMES AND LIDS ADJUSTMENT WITHOUT MILLING. |
| 17        | PAVEMENT PATCHING FOR BITUMINOUS SURFACED PAVEMENT                                       |
| 18        | CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT  |
| 19        | BUTT JOINT AND BITUMINOUS TAPER DETAILS  |
| 20        | TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS              |
| 21        | TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT)            |
| 22        | DISTRICT ONE TYPICAL PAVEMENT MARKINGS   |
| 23        | PAVEMENT MARKING LETTER AND SYMBOLS FOR TRAFFIC STAGING                                  |
| 24        | TEMPORARY INFORMATION SIGNING  |
| 25        | DISTRICT ONE DETECTOR LOOP INSTALLATION DETAILS FOR ROADWAY RESURFACING                  |

#### LIST OF STATE STANDARDS

| STANDARD NO. | DESCRIPTION  |
|--------------|--|
| 000001       | STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS                 |
| 442201       | CLASS C AND D PATCHES  |
| 604001       | FRAME AND LIDS, TYPE 1                                       |
| 606001       | CONC. CURB AND COMB. CONC. CURB AND GUTTER                   |
| 701301       | LANE CLOSURE, 2-L, 2-W, SHORT TIME OPERATIONS                |
| 701311       | LANE CLOSURE 2-L, 2-W, MOVING DAY ONLY OPERATION             |
| 701501       | URBAN LANE CLOSURE 2-L, 2-W, UNDIVIDED                       |
| 701606       | URBAN LANE CLOSURE MULTILANE 2-W WITH MOUNTABLE MEDIAN       |
| 701701       | URBAN LANE CLOSURE MULTILANE INTERSECTION                    |
| 702001       | TRAFFIC CONTROL DEVICES                                      |
| 780001       | TYPICAL LAYOUT FOR DETECTION LOOPS                           |
| 886001       | DETECTOR LOOP INSTALLATIONS                                  |
| 886006       | TYPICAL LAYOUT FOR DETECTION LOOPS                           |
| 701306       | LANE CLOSURE, 2-L, 2-W, SLOW MOVING DAY ONLY OPERATIONS, FOR |
|              | SPEED >45 MPH.   |
|              |  |

#### MIXTURE REQUIREMENTS

| ITEM  | AC TYPE             | VOID               | RAP % |
|---|---------------------|--------------------|-------|
| POLYMERIZED LEVELING BINDER (MACHINE METHOD), SUPERPAVE, IL-4.75, N50, ¾' | SBS/SBR<br>PG 76-28 | 2.5% @ 50 GYR      | 0     |
| BITUMINOUS CONC. SURFACE COURSE,<br>SUPERPAVE, MIX "D", N70, 11/2"        | PG 64-22            | 4% @ 70 GYR        | 10    |
| BITUMINOUS CONC. SURFACE COURSE,<br>SUPERPAVE, MIX "D", N50, 11/2"        | PG 64-22            | 4% <b>c</b> 70 GYR | 15    |
| CLASS D PATCHES, Of TYPE and<br>THICKNESS specified                       | PG 64-22            | 4% <b>c</b> 50 GYR | 15    |
| BITUMINOUS REPLACEMENT OVER PATHCHES                                      | PG 64-22            | 4% @ 70 GYR        | 15    |

#### PLAN NOTES

- BEFORE STARTING ANY EXCAVATION, THE CONTRACTOR SHALL CALL "J.U.L.I.E."
  (JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION) AT 1-800-892-0123 FOR
  FIELD LOCATIONS OF BURIED ELECTRIC, TELEPHONE AND GAS FACILITIES. (48 HOURS
  NOTIFICATION IS REQUIRED.)
- 2. THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES AND VILLAGES OF PALOS HEIGHTS AND PALOS PARK.
- THE CONTRACTOR WILL NOT BE ALLOWED TO SET UP A YARD OR FIELD OFFICE ON STATE PROPERTY WITHOUT WRITTEN PERMISSION FROM THE DEPARTMENT.
- 5. BUTT JOINTS WILL BE INSTALLED AT THE ENDS OF ALL RESURFACING (WHERE RESURFACING MEETS EXISTING PAVEMENT), IN ACCORDANCE WITH THE "BUTT JOINT AND BITUMINOUS TAPER DETAILS" SHEET INCLUDED IN THE PLANS, UNLESS OTHERWISE SPECIFIED.
- 6. PERMANENT PAVEMENT MARKINGS SHALL BE PLACED IN ACCORDANCE WITH THE "DISTRICT ONE TYPICAL PAVEMENT MARKINGS" DETAIL (TCI3).
- 7. RAISED REFLECTIVE PAVEMENT MARKERS ARE TO BE PLACED THROUGHOUT THE IMPROVEMENT LIMITS. DOUBLE LANE LINE MARKERS SHALL BE PLACED WHERE APPLICABLE. SEE DETAIL "TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT)".
- 8. THE RESIDENT ENGINEER SHALL CONTACT MS. PATRICE HARRIS TRAFFIC ENGINEER AT (708) 597-9800, A MINIMUM OF TWO WEEKS PRIOR TO PLACEMENT OF PERMANENT PAVEMENT MARKING.
- 9. THE CONTRACTOR SHALL BE REQUIRED TO COMPLETE ALL PAVEMENT PATCHING PRIOR TO BITUMINOUS SURFACE REMOVAL OPERATIONS
- 10 FOR PAVEMENT MARKING DETAILS SEE "DISTRICT ONE TYPICAL PAVEMENT MARKINGS " SHEET

REVISIONS
NAME
DATE

123RD ST./127TH ST.
INDEX OF SHEETS
LIST OF STATE STANDARDS
PLAN NOTES

SCALE; VERT. 1 NONE
DATE

DATE

123RD ST./127TH ST.
INDEX OF SHEETS
LIST OF STATE STANDARDS
PLAN NOTES

SCALE; VERT. 1 NONE
DATE

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| F.A.U.<br>RTE. | SECTION          |     | COUNT | Υ   | TOTAL<br>SHEETS | SHEET<br>NO. |
|----------------|------------------|-----|-------|-----|-----------------|--------------|
| 1587           | 2004-042_RS      |     | _COOK | Ĺ   | _25             | _3           |
| FED.           | ROAD DIST. NO. 1 | ILL | INDIS | HIG | HWAY PRO        | DJECT        |

CONTRACT NO. \_62677\_

|          | SUMMARY OF QUANTITIES  |         |                     |                                       |                                       | CONSTRUCT | ION TYPE | CODE | T | - |              |
|----------|--|---------|---------------------|---------------------------------------|---------------------------------------|-----------|----------|------|---|---|--------------|
| CODE NO  | ITEM   | UNIT    | TOTAL<br>QUANTITIES | LOC. 1<br>URBAN<br>100% STATE<br>1000 | LOC. 2<br>URBAN<br>100% STATE<br>1000 |           |          |      |   | - | COD          |
| 20201006 | GRADING AND SHAPING SHOULDERS                                    | UNIT    | 201                 | 117                                   | 84                                    |           |          |      |   |   | 7010         |
| 25000400 | NITROGEN FERTILIZER NUTRIENT                                     | POUND   | 7                   | 4                                     | 3                                     |           |          |      |   |   | 7030         |
| 25000500 | PHOSPHORUS FERTILIZER NUTRIENT                                   | POUND   | . 7                 | 4                                     | 3                                     |           |          |      |   |   | 70300        |
| 25000600 | POTASSIUM FERTILIZER NUTRIENT                                    | POUND   | 7                   | 4                                     | 3                                     |           |          |      |   | 1 | 70300        |
| 25200110 | SODDING, SALT TOLERANT   | SQ YD   | 480                 | 280                                   | 200                                   |           |          |      |   |   | 10300        |
| 25200200 | SUPPLEMENTAL WATERING  | UNIT    | 2                   | 1                                     | 1                                     |           |          |      |   |   | 70300        |
| 40600200 | BITUMINOUS MATERIALS (PRIME COAT)                                | TON     | 13                  | 7                                     | 6                                     |           |          |      |   |   | 7030         |
| 40600300 | AGGREGATE (PRIME COAT)   | TON     | 63                  | 33                                    | 30                                    |           |          |      |   |   |              |
| 40600400 | MIXTURE FOR CRACKS, JOINTS, AND FLANGEWAYS                       | TON     | 4                   | . 2                                   | 2                                     |           |          |      |   | * | 7800         |
| 40600895 | CONSTRUCTING TEST STRIP  | EACH    | 2                   | 1                                     | . 1                                   |           |          |      |   | * | 18000        |
| 40600980 | BITUMINOUS SURFACE REMOVAL - BUTT JOINT                          | SQ YD   | 196                 | 38                                    | 158                                   |           |          |      |   | × | 7800         |
| 40601000 | BITUMINOUS REPLACEMENT OVER PATCHES                              | TON     | 1225                | 558                                   | 667                                   | 1         |          |      |   |   | 7010         |
| 44000124 | BITUMINOUS REMOVAL OVER PATCHES 6"                               | SQ YD   | 1244                | 1244                                  |                                       |           |          |      |   | * | 7810         |
| 44000132 | BITUMINOUS REMOVAL OVER PATCHES 8"                               | . SQ YD | 1489                |                                       | 1489                                  |           |          |      |   |   | 7830         |
| 44001700 | COMBINATION CONCRETE CURB AND GUTTER REMOVAL AND REPLACEMENT     | FOOT    | 2000                | 2000                                  |                                       |           |          |      |   | * | 8860<br>X032 |
| 44201729 | CLASS D PATCHES, TYPE II, 7 INCH                                 | SQ YD   | 228                 | 132                                   | 96                                    |           |          |      |   |   | X406         |
| 44201733 | CLASS D PATCHES, TYPE III, 7 INCH                                | SQ YD   | 290                 | 118                                   | 172                                   |           |          |      |   |   | AHUDI        |
| 44201735 | CLASS D PATCHES, TYPE IV, 7 INCH                                 | SQ YD   | 2064                | 1269                                  | 795                                   |           |          |      |   |   | X406         |
| 48101200 | AGGREGATE SHOULDERS, TYPE B                                      | TON     | 5381                | 3123                                  | 2258                                  |           |          |      |   |   | VAGE         |
| 50300300 | PROTECTIVE COAT  | SQ YD   | 496                 | 496                                   |                                       |           |          |      |   |   | X406         |
| 55039700 | STORM SEWERS TO BE CLEANED                                       | FOOT    | 600                 | 600                                   |                                       |           |          |      |   |   | X440         |
| 60253000 | CATCH BASINS TO BE RECONSTRUCTED WITH NEW TYPE 1 FRAME, OPEN LID | EACH    | . 2                 | 2                                     |                                       |           |          |      |   |   | Z001         |
| 60300305 | FRAMES AND LIDS TO BE ADJUSTED                                   | EACH    | 28                  | 28                                    |                                       |           |          |      |   |   |              |
| 67000400 | ENGINEER'S FIELD OFFICE, TYPE A                                  | CAL MO  | 4                   | 2                                     | 2                                     |           |          |      |   |   |              |
| 67100100 | MOBILIZATION   | L SUM   |                     | .5                                    | .5                                    |           |          |      |   |   |              |
| 70102620 | TRAFFIC CONTROL AND PROTECTION,<br>STANDARD 701501               | L SUM   | •                   | .5                                    | •5                                    |           |          |      |   |   |              |
| 70102625 | TRAFFIC CONTROL AND PROTECTION,<br>STANDARD 701606               | L SUM   | , <b>l</b>          | <u>#</u> 5                            | .5                                    |           |          |      |   |   | -            |
| 70102635 | TRAFFIC CONTROL AND PROTECTION, STANDARD 701701                  | L SUM   | 1                   | .5                                    | ,5                                    |           |          |      |   |   |              |

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|          | SUMMARY OF QUANTITIES  |  |   |   |   |  |   |   |   |
|----------|--|--|---|---|---|--|---|---|---|
| ı        |  |  | TOTAL   | LOC. 1                                  | LOC. 2  |  |   |   | L   |
| CODE NO  | ITEM   | UNIT   | QUANTITIES  | URBAN<br>100% STATE                     | URBAN<br>100% STATE   |  |   |   |   |
|          | ·  |  |   | 1000                                    | 2000  |  |   |   |   |
| 70103815 | TRAFFIC CONTROL SURVEILLANCE   | CAL DA   | 1   | 1                                       |   |  | 43%   |   |   |
| 70300100 | SHORT-TERM PAVEMENT MARKING  | FOOT   | 8412  | 3474                                    | 4938  |  |   |   |   |
| 70300220 | TEMPORARY PAVEMENT MARKING - LINE 4"   | FOOT   | 38412   | 20316                                   | 18096   |  |   |   |   |
| 70300260 | TEMPORARY PAVEMENT MARKING - LINE 12"  | FOOT   | 78  | 78                                      |   |  |   |   |   |
| 70300280 | TEMPORARY PAVEMENT MARKING - LINE 24"  | FOOT   | 278   | 10                                      | 268   |  |   |   |   |
| 70301000 | WORK ZONE PAVEMENT MARKING REMOVAL   | SQ FT  | 935   | 386                                     | 549   |  |   |   |   |
| 78000200 | THERMOPLASTIC PAVEMENT MARKING - LINE 4"   | FOOT   | 38412   | 20316                                   | 18096   |  |   |   |   |
| 78000600 | THERMOPLASTIC PAVEMENT MARKING - LINE 12"  | FOOT   | 78  | 78                                      |   | ·  |   |   |   |
| 78000650 | THERMOPLASTIC PAVEMENT MARKING - LINE 24"  | FOOT   | 278   | 10                                      | 268   |  |   |   |   |
| 78100100 | RAISED REFLECTIVE PAVEMENT MARKER  | EACH   | 431   | 275                                     | 156   |  |   |   |   |
| 78300200 | RAISED REFLECTIVE PAVEMENT MARKER REMOVAL  | EACH   | 355   | 275                                     | 80  |  |   |   |   |
| 88600600 | DETECTOR LOOP REPLACEMENT  | FOOT   | 259   | l                                       | 259   | -  |   | -   |   |
| X0322256 | TEMPORARY INFORMATION SIGNING  | SQ FT  | 102.8   | 51.4                                    | 51.4  |  |   |   |   |
| X4066424 | BITUMINOUS CONCRETE SURFACE COURSE,<br>SUPERPAVE, MIX "D", N50   | TON  | 1383  | 1383                                    |   |  |   |   |   |
| X4066426 | BITUMINOUS CONCRETE SURFACE COURSE,<br>SUPERPAVE, MIX "D", N70   | TON  | 1266  |   | 1266  |  |   |   |   |
| X4067100 | POLYMERIZED LEVELING BINDER (MACHINE METHOD), SUPERPAVE, IL-4.75, N50  | TON  | 1324  | 691                                     | 633   |  |   |   |   |
| X4409410 | BITUMINOUS SURFACE REMOVAL 2 1/4"  | SQ YD  | 31132   | 16459                                   | 14673   |  |   |   |   |
| Z0018500 | DRAINAGE STRUCTURES TO BE CLEANED  | EACH   | 28  | 28                                      | ·   |  |   |   |   |
| ·        |  |  |   |   |   |  |   |   |   |
|          |  |  |   | -                                       |   |  |   |   |   |
|          |  |  |   |   |   |  |   |   |   |
|          |  |  |   |   |   |  |   |   |   |
|          |  |  |   |   |   |  | -   |   |   |
|          |  |  |   |   |   |  |   | ·   |   |
|          |  |  |   |   |   |  |   |   |   |
|          |  |  |   |   |   |  |   |   |   |
|          |  |  |   |   |   |  |   |   |   |
|          | 70103815<br>70300100<br>70300220<br>70300280<br>70300280<br>70300280<br>70300280<br>70300200<br>78000600<br>78000650<br>78100100<br>78300200<br>88600600<br>80322256<br>84066424<br>84066426<br>84067100<br>84409410 | TRAFFIC CONTROL SURVEILLANCE  SHORT-TERM PAVEMENT MARKING  TEMPORARY PAVEMENT MARKING - LINE 4"  TO300260  TEMPORARY PAVEMENT MARKING - LINE 12"  TEMPORARY PAVEMENT MARKING - LINE 24"  TO301000  WORK ZONE PAVEMENT MARKING - LINE 4"  THERMOPLASTIC PAVEMENT MARKING - LINE 4"  THERMOPLASTIC PAVEMENT MARKING - LINE 12"  THERMOPLASTIC PAVEMENT MARKING - LINE 12"  THERMOPLASTIC PAVEMENT MARKING - LINE 24"  THERMOPLASTIC PAVEMENT MARKER  THERMOPLASTIC PAVEMENT MARKING - LINE 12"  THERMOPLASTIC PAVEMENT MARKI | TRAFFIC CONTROL SURVEILLANCE  CAL DA  CO300100 SHORT-TERM PAVEMENT MARKING  CO300220 TEMPORARY PAVEMENT MARKING  CUINE 4"  CO300260 TEMPORARY PAVEMENT MARKING  CUINE 12"  CO300280 TEMPORARY PAVEMENT MARKING  CUINE 12"  CO300280 TEMPORARY PAVEMENT MARKING  CUINE 24"  CO300200 THERMOPLASTIC PAVEMENT MARKING  CUINE 4"  CO300600 THERMOPLASTIC PAVEMENT MARKING  CUINE 12"  CO300650 THERMOPLASTIC PAVEMENT MARKING  CUINE 24"  CO3006600 THERMOPLASTIC PAVEMENT MARKER  CO3006600 THERMOPLASTIC PAVEMENT MARKING  CO3006600 THERMOPLASTIC PAVEMENT MARKING  CO300600 THERMOPLASTIC PAVEMENT MARKING  CO300600 THERMOPLASTIC PAVEMENT MARKING  CO3006000 THERMOPLASTIC | 10103815   TRAFFIC CONTROL SURVEILLANCE | 1000   1000 | 1000   10000   10000   10000   10000   10000   10000   1 | 1000   1000 | 1000   1000 | 1000   1000 |

\*SPECIALTY ITEMS

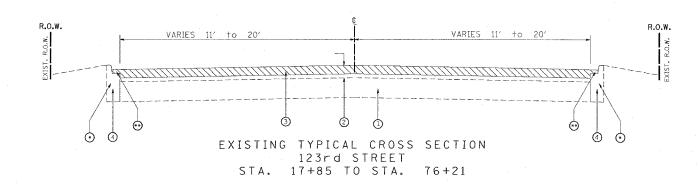
REVISIONS
NAME DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION SUMMARY OF QUANTITIES

PLOT DATE: 3/30/2005

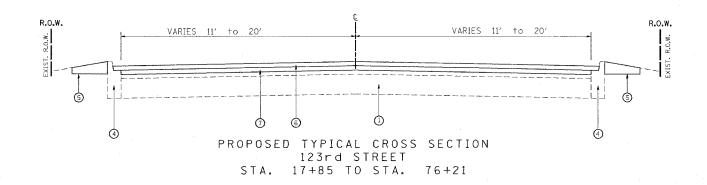


CONTRACT NO. 62677



- \* TYPE B6.24 CURB & GUTTER FROM STATION 17+85 TO STATION 18+10
  TYPE B6.18 CURB & GUTTER FROM STATION 18+10 TO STATION 76+21
- \*\* LOCATION OF 2" +/- RESURFACED GUTTER FLAG AT THE FOLLOWING STATIONS (SEE NOTE):

STATION 18+10 TO STATION 76+21



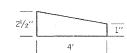
#### LEGEND

- 1 ) EXISTING CONCRETE BASE COURSE, ± 7"
- 2 EXISTING BITUMINOUS SURFACE COURSE, ± 6"
- 3 PROPOSED BITUMINOUS SURFACE REMOVAL, 21/4"
- (4) EXISTING COMBINATION CONCRETE CURB & GUTTER
- 5 PROPOSED AGGREGATE SHOULDER, TYPE B
- 6 PROPOSED BITUMINOUS CONCRETE SURFACE COURSE, SUPERPAVE, MIX. "D", N50, 11/2"
- 7 PROPOSED POLYMERIZED LEVELING BINDER COURSE, (MACHINE METHOD) SUPERPAVE, IL-4.75, N50, ¾"

#### NOTE:

REMOVAL OF EXISTING BITUMINOUS RESURFACING OVER GUTTER FLAG WILL BE PAID AS BITUMINOUS SURFACE REMOVAL,  $2\frac{1}{4}$ "

DETAIL: PROPOSED AGGREGATE SHOULDER TYPE B



| REVISIONS |      | ILLINOIS DEPARTMENT OF TRANSPORTATION  |
|-----------|------|--|
| NAME      | DATE | ILLINOIS DE ANTIMENT OF THANS ON ATTOM |
|           |      |  |
|           |      | LOCATION #1                            |
|           |      | 123rd ST.                              |
| 1         | 1    |  |
|           |      | PROPOSED ROADWAY AND                   |
|           |      | PAVEMENT MARKING PLANS                 |
|           |      | FAVEMENT MARKING FLANS                 |
|           |      | COLUE VERT. W-FOW                      |
|           |      | SCALE: VERT. 1"=50" DRAWN BY: JR       |
|           |      | DATE 3/31/2005 CHECKED BY JR           |

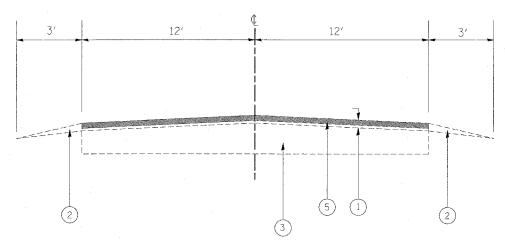
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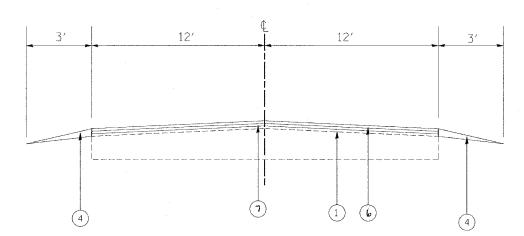
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| F.A.U.<br>RTE. | SECTION         |       | COUNT    | Y   | TOTAL   | SHEET<br>NO. |
|----------------|-----------------|-------|----------|-----|---------|--------------|
| 1587           | 2004-042        | RS    | COO      | <   | 25      | 5            |
| STA.           | N/A             | 1     | TO STA.  | N/A | ١       |              |
| FED. R         | OAD DIST. NO. 1 | ILLIN | OIS FED. | AID | PROJECT |              |

CONTRACT NO. 62677



EXISTING TYPICAL CROSS SECTION 123rd / 127th STREET STA. 0+00 TO STA. 15+47 STA. 24+20 TO STA. 45+25

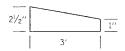


PROPOSED TYPICAL CROSS SECTION 123rd / 127th STREET STA. 0+00 TO STA. 15+47 STA. 24+20 TO STA. 45+25

#### LEGEND

- 1 EXISTING BIT. CONC. SURFACE COURSE, ± 8"
- 2 EXISTING BIT. AGGREGATE SHOULDER, 3'
- 3 EXISTING SUBBASE GRANULAR MATERIAL, 7"
- (4) PROPOSED AGGREGATE SHOULDER, TYPE B, 3'
- 5 PROPOSED BIT. SURFACE REMOVAL (21/4")
- 6 PROPOSED BIT. CONC. SURFACE COURSE, SUPERPAVE MIX "D", N70 (11/2")
- 7 PROPOSED POLYMERIZED LEVELING BINDER (MACHINE METHOD), SUPERPAVE, IL-4.75, N50 (3/4")

DETAIL: PROPOSED AGGREGATE SHOULDER TYPE B



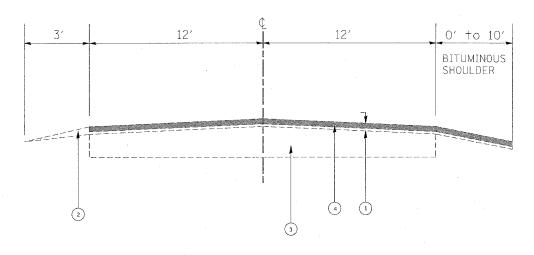
| REVISION |      | TILINOIS DEPARTM   | ENT OF TRANSPORTATION  |
|----------|------|--------------------|------------------------|
| NAME     | DATE | ICCINOIS DEI AITTI | LINI OF TRANSPORTATION |
|          |      | LOCAT              | ION #2                 |
|          |      | 122DD CT           | ./127TH ST.            |
|          |      |                    |                        |
|          |      | EXISTING AN        | ID PROPOSED            |
|          |      | TYPICAL            | SECTION                |
|          |      |                    | . 02011011             |
|          |      | CALE: NONE         | DRAWN BY: MHC          |
| <u> </u> |      | /31/2005           | CHECKED BY- IB         |

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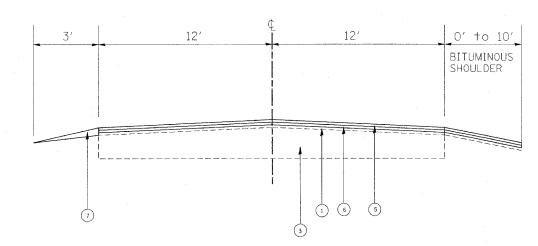
ect3\p10500M\p10500Apa.n32 3/31/2/05 5; 40:30 PM ;ber=alpuden

| F. A. U.<br>RTE. | SECTION            | COUNTY     | TOTAL<br>SHEETS | SHEET<br>NO |
|------------------|--------------------|------------|-----------------|-------------|
| 1587             | 2004-042 RS        | COOK       | 25              | . 6         |
| STA.             | N/A                | TO STA. N/ | 'A              |             |
| FEI              | . ROAD DIST. NO. 1 | ILLINOIS   | FED. AID        | PROJECT     |

CONTRACT NO. 62677



EXISTING TYPICAL CROSS SECTION 123rd / 127th STREET STA. 15+47 TO STA. 24+20



PROPOSED TYPICAL CROSS SECTION
123rd / 127th STREET
STA. 15+47 TO STA. 24+20

#### LEGEND

- ① EXISTING BIT, CONC. SURFACE COURSE, ± 8"
- ② EXISTING BIT. AGGREGATE SHOULDER, 3'
- 3 EXISTING SUBBASE GRANULAR MATERIAL, 7"
- 4 PROPOSED BIT. SURFACE REMOVAL (21/4")
- (5) PROPOSED BIT, CONC, SURFACE COURSE, SUPERPAVE MIX "D", N70  $(1\frac{1}{2})$ "
- (6) PROPOSED POLYMERIZED LEVELING BINDER (MACHINE METHOD), SUPERPAVE, IL-4.5, N50 (3/4")
- (7) PROPOSED AGGREGATE SHOULDER, TYPE B

ILLINOIS DEPARTMENT OF TRANSPORTATION

LOCATION #2

123RD ST./127TH ST.

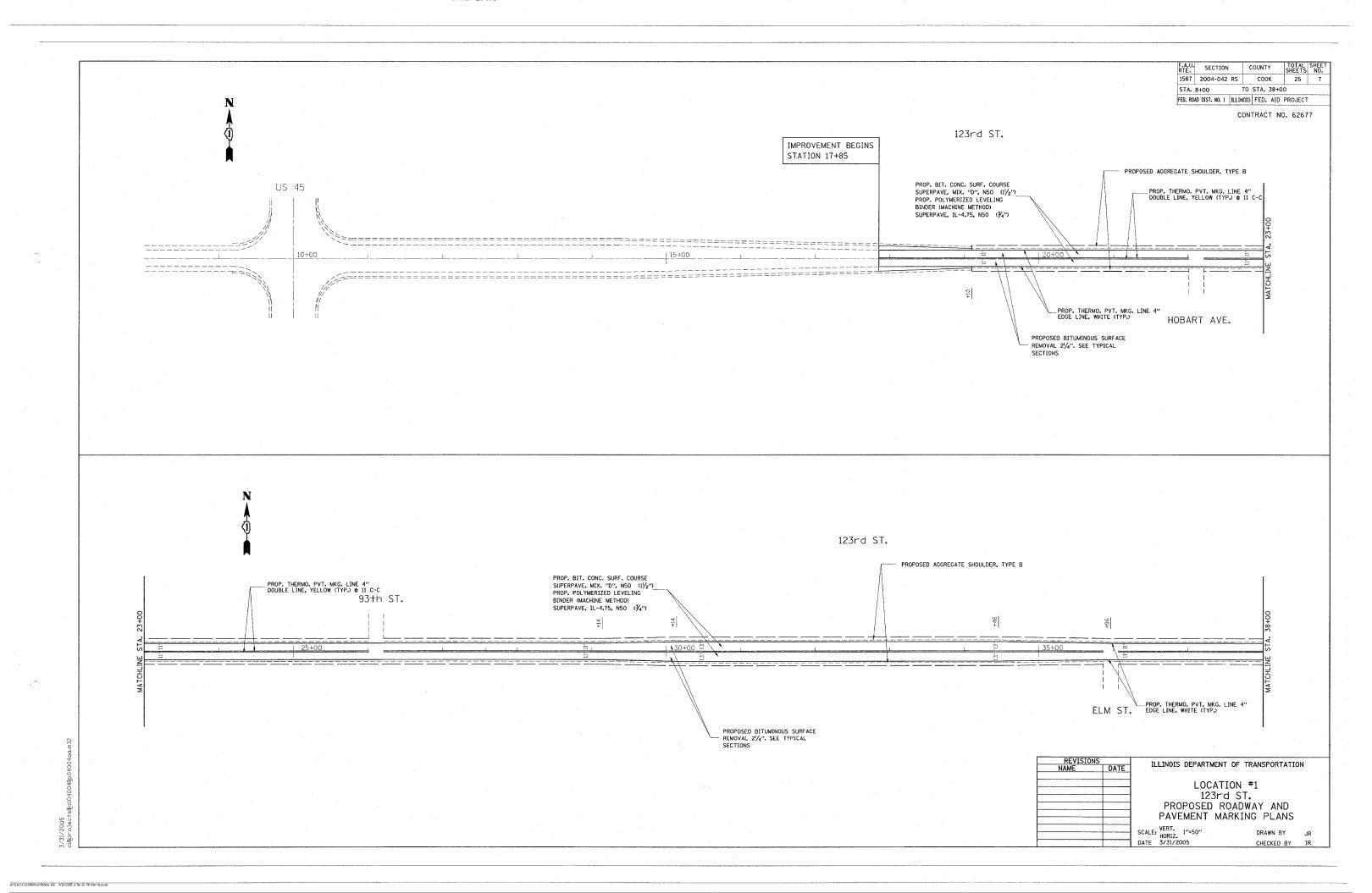
EXISTING AND PROPOSED

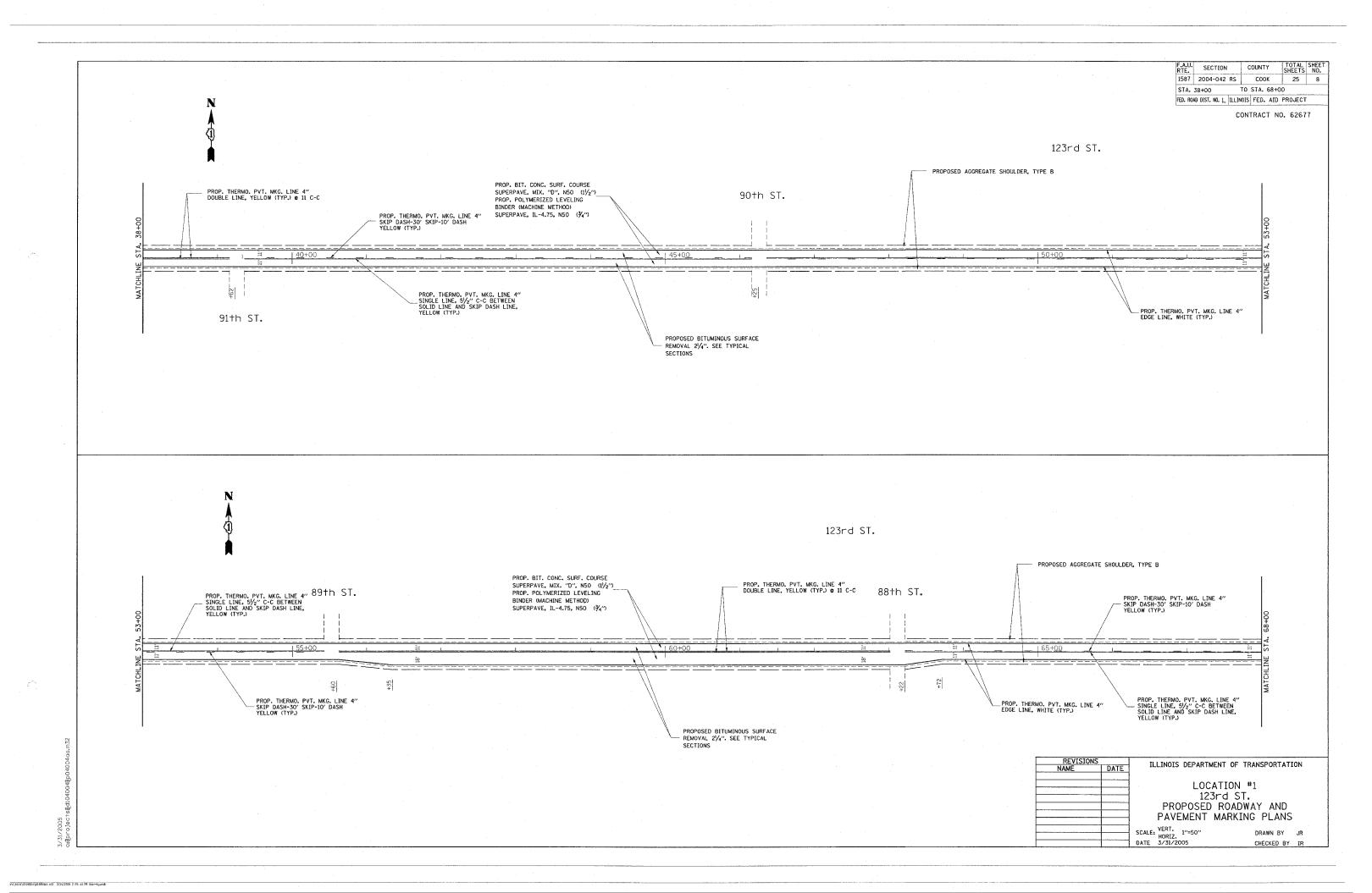
TYPICAL SECTIONS

SCALE, VERT. NONF DRAWN BY: HMO

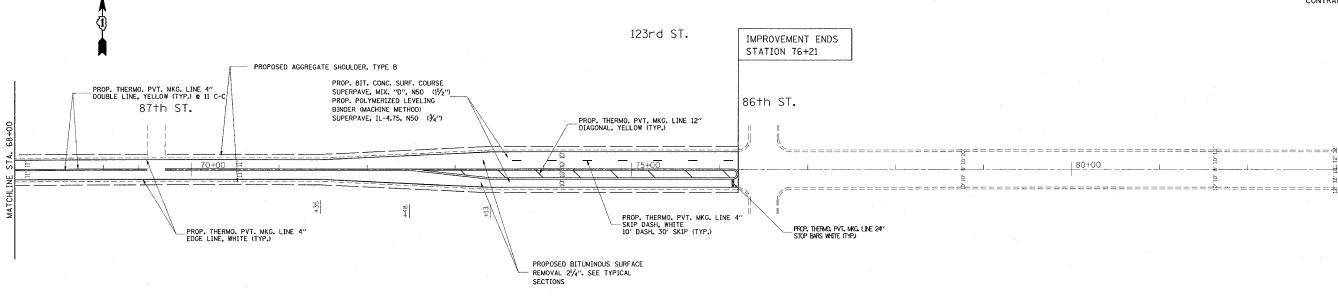
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CONTRACT NO. 62677



REVISIONS
NAME DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

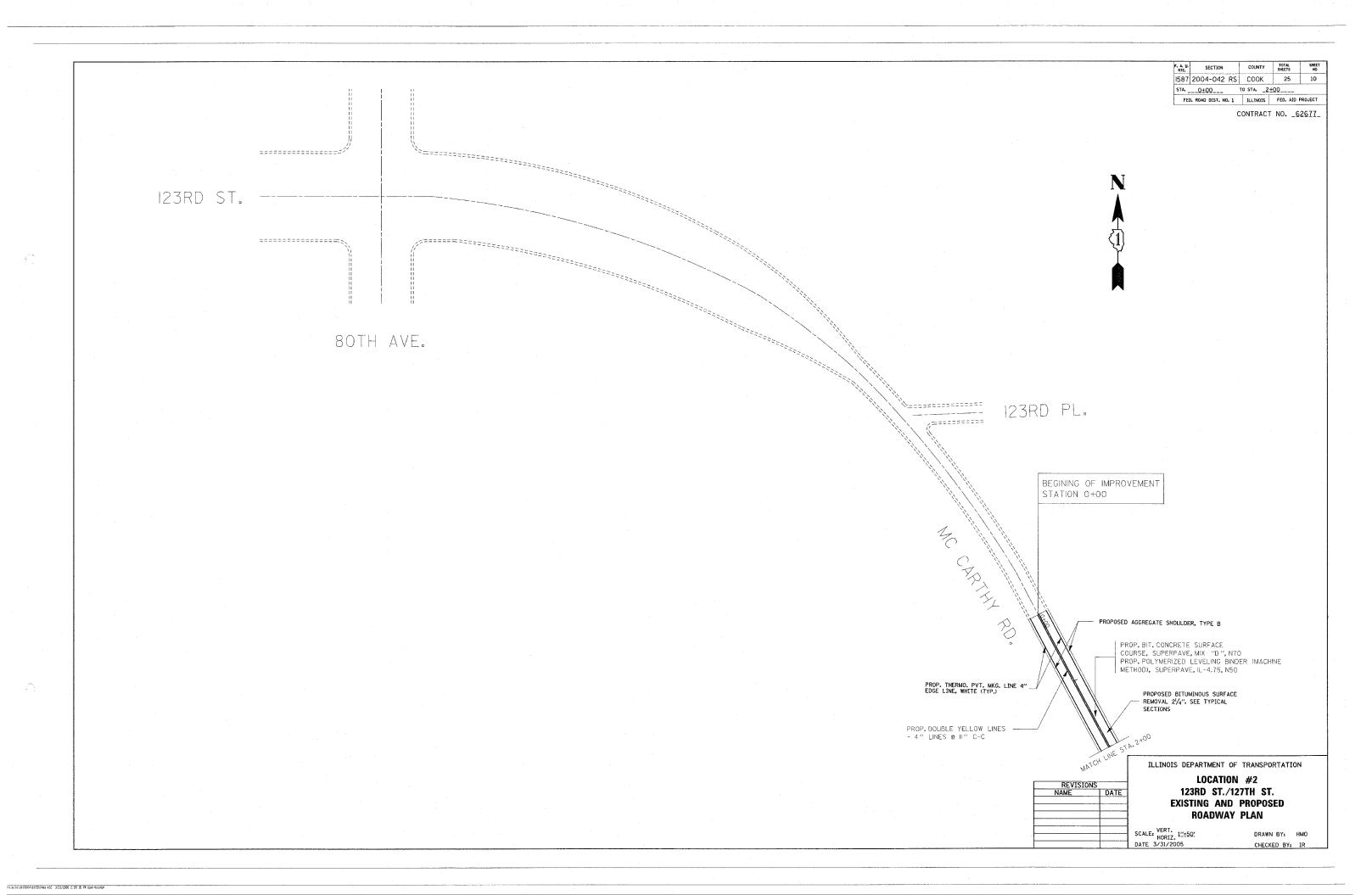
LOCATION #1 123rd ST. PROPOSED ROADWAY AND PAVEMENT MARKING PLANS

SCALE: VERT. 1"=50" HORIZ. DATE 3/31/2005

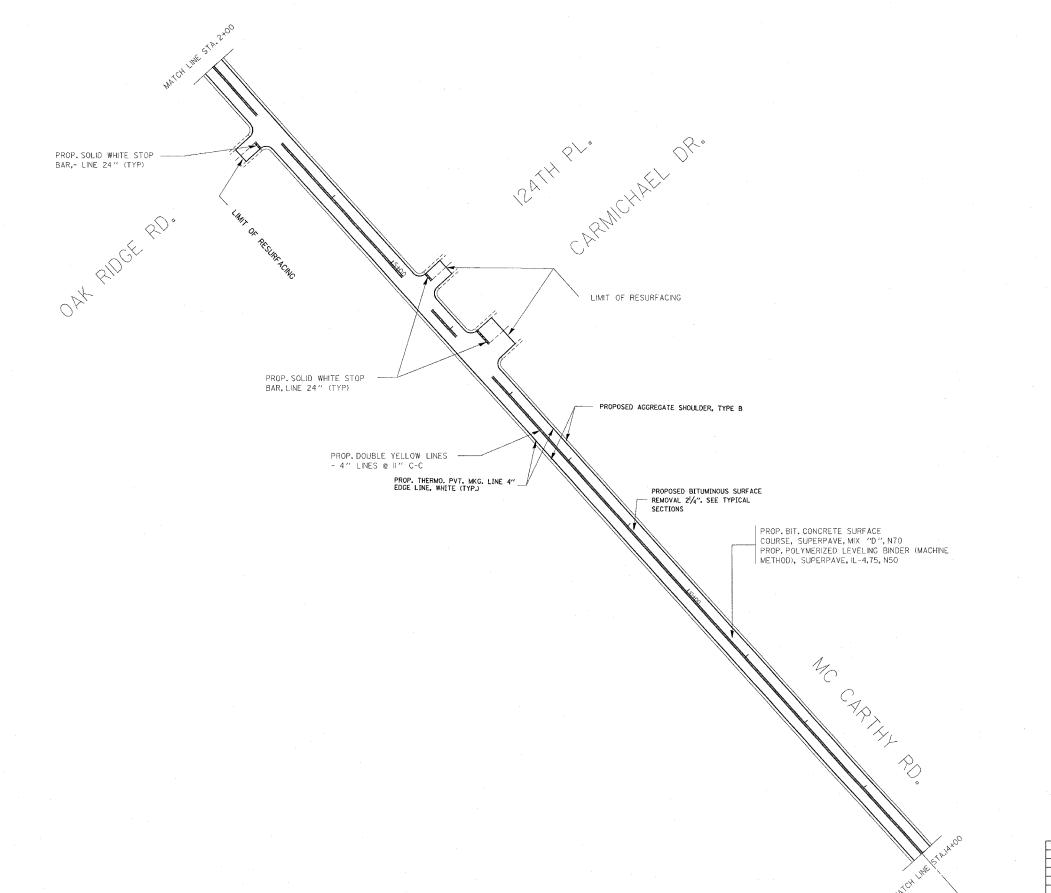
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COUNTY TOTAL SHEETS F. A. U. SECTION COUNTY TOTAL SHEET NO 1587 2004-042 RS COOK 25 11 STA. \_\_2+00 \_\_\_ TO STA. \_14+00\_\_\_\_ FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT CONTRACT NO. \_62677\_



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ILLINOIS DEPARTMENT OF TRANSPORTATION

LOCATION #2 123RD ST./127TH ST. EXISTING AND PROPOSED **ROADWAY PLAN** 

SCALE: VERT. 1"=50' HORIZ. 1"=50' DATE 3/31/2005

DRAWN BY: HMO CHECKED BY: IR

| SECTION | COUNTY | TOTAL SHEETS | NO |
| 1587 | 2004-042 | RS | COOK | 25 | 12 | STA. \_\_14±00\_\_\_\_ TO STA. \_27±00\_\_\_\_ FED. ROAD DIST. NO. 1 | ILLINOIS | FED. AID PROJECT CONTRACT NO. \_62677\_ PROP. DOUBLE YELLOW LINES - 4" LINES @ II" C-C LIMIT OF RESURFACING PROP. SOLID WHITE STOP BAR, LINE 24" (TYP) PROP. BIT. CONCRETE SURFACE
COURSE, SUPERPAVE, MIX "D", N7O
PROP. POLYMERIZED LEVELING BINDER (MACHINE METHOD), SUPERPAVE, IL-4.75, N5O PROPOSED AGGREGATE SHOULDER, TYPE B 10' BIT. SHOULDER PROPOSED BITUMINOUS SURFACE
- REMOVAL 21/4". SEE TYPICAL
SECTIONS DIANE LIMIT OF RESURFACING PROP. THERMO. PVT. MKG. LINE 4" EDGE LINE, WHITE (TYP.) PROP. SOLID WHITE STOP BAR, LINE 24" (TYP) PROPOSED AGGREGATE SHOULDER, TYPE B \_\_\_\_\_\_ 127TH ST. ILLINOIS DEPARTMENT OF TRANSPORTATION LOCATION #2 123RD ST./127TH ST. **EXISTING AND PROPOSED ROADWAY PLAN** SCALE: VERT. 1"=50" DATE 3/31/2005 DRAWN BY HMO CHECKED BY IR

STA. 27+00 TO STA. 40+00 FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT CONTRACT NO. \_62677\_ AVE. AVE.  $A \lor E$ AVE RICHARD HAROLD HL9/ LIMIT OF RESURFACING 5 H T LIMIT OF RESURFACING LIMIT OF RESURFACING LIMIT OF RESURFACING PROP. SOLID WHITE STOP BAR, LINE 24" (TYP) PROP. SOLID WHITE STOP BAR, LINE 24" (TYP) PROPOSED AGGREGATE SHOULDER, TYPE B PROP. SOLID WHITE STOP BAR, LINE 24" (TYP) PROPOSED BITUMINOUS SURFACE
REMOVAL 21/4". SEE TYPICAL
SECTIONS 127TH ST. MATCH PROP. DOUBLE YELLOW LINES - 4" LINES @ II" C-C PROP. THERMO. PVT. MKG. LINE 4" \_\_\_\_\_ EDGE LINE, WHITE (TYP.) PROP. BIT. CONCRETE SURFACE
COURSE, SUPERPAVE, MIX "D", N70
PROP. POLYMERIZED LEVELING BINDER (MACHINE METHOD), SUPERPAVE, IL-4.75, N50 PROP. SOLID WHITE STOP BAR, LINE 24" (TYP) ILLINOIS DEPARTMENT OF TRANSPORTATION LOCATION #2 123RD ST./127TH ST. **EXISTING AND PROPOSED ROADWAY PLAN** SCALE: VERT. 1"=50" DRAWN BY HMO CHECKED BY

RTE. SECTION COUNTY TOTAL SHEETS NO.

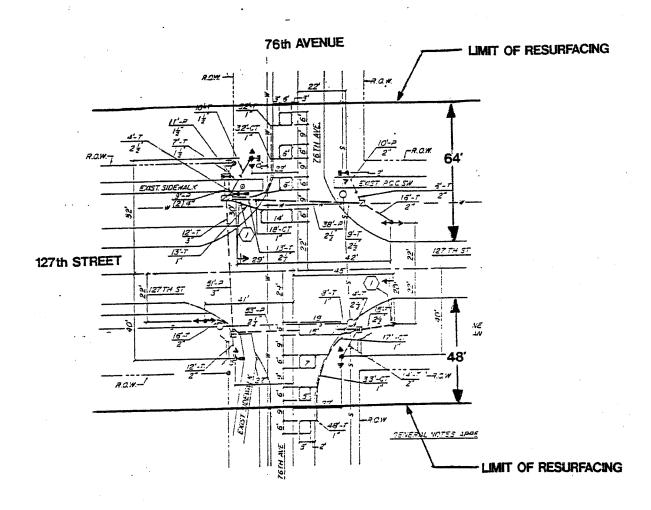
1587 2004-042 RS COOK 25 14 STA. \_\_\_40+00 \_\_TO STA. \_\_45±25\_\_\_\_ FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT CONTRACT NO. \_62677\_ AVE. HARLEM AVE. PROP. SOLID WHITE STOP BAR, LINE 24" (TYP)  $\bigcirc$ 2 LIMIT OF RESURFACING T MLIMIT OF RESURFACING PROP. SOLID WHITE STOP BAR, LINE 24" (TYP) -PROPOSED BITUMINOUS SURFACE REMOVAL 21/4". SEE TYPICAL PROPOSED AGGREGATE SHOULDER, TYPE B SECTIONS PROP. DOUBLE YELLOW LINES - 4" LINES @ II" C-C 127RD ST. . \_\_\_\_\_ PROP. THERMO. PVT. MKG. LINE 4" \_\_ EDGE LINE, WHITE (TYP.) LIMIT OF RESURFACING PROP. BIT. CONCRETE SURFACE COURSE, SUPERPAVE, MIX "D", N70
PROP. POLYMERIZED LEVELING BINDER (MACHINE METHOD), SUPERPAVE, IL-4.75, N50 END OF IMPROVEMENT STATION 45+25 PROP. SOLID WHITE STOP BAR, LINE 24" (TYP) ILLINOIS DEPARTMENT OF TRANSPORTATION LOCATION #2 123RD ST./127TH ST. **EXISTING AND PROPOSED ROADWAY PLAN** SCALE: VERT. 1"=50" DRAWN BY HMO DATE CHECKED BY

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| FEE     | SECTION            | COUNTY        | TOTAL   | SHEET |
|---------|--------------------|---------------|---------|-------|
| 1587    | 2004-042 RS        | COOK          | 25      | 15    |
| STA.    | N/A                | TO STA. N/A   |         |       |
| FEB. 80 | MO DEST. NO. 1 PLL | HOIS FED. AID | PROJECT |       |







EPLACE ALL DETECTOR LOOPS AS SHOWN

(WITHIN THE RESURFACING LIMITS)

CODE NO. QUANTITY UNIT ITEM

88600600 259' FOOT DETECTOR LOOP
REPLACEMENT

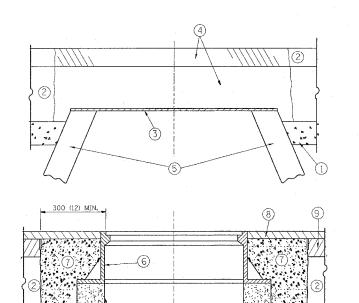
NOTE:

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

DETECTOR LOOPS AT:
127th STREET &
76th AVENUE

SCALE T'S DESCRED BY: 127th STREET
DRAWN BY: 76th AVENUE

|                    |          |          |         | 00               | 1011  |
|--------------------|----------|----------|---------|------------------|-------|
| F. A.<br>RTE.      | SECTION  | ī        | COUNTY  | TOTAL<br>SHEETS  | SHEET |
| 1587               | 2004-042 | RS       | соок    | 25               | 16    |
| STA.               |          | -        | TO STA. |                  |       |
| FEO. ROAD DIST. NO |          | RALINOIS |         | FEB. AID PROJECT |       |



- BRICK, MORTAR, OR CONC. ADJUSTING RINGS

SAND FILL

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

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.

UNLESS A SEPARATE PAY ITEM HAS BEEN PROVIDED.

NOTES:

#### CONSTRUCTION PROCEDURES

#### STAGE 1 (BEFORE PAVEMENT MILLING)

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

#### STAGE 2 (AFTER PAVEMENT MILLING)

- A) REMOVE THE BITUMINOUS MATERIAL 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 BITUMINOUS CONCRETE SURFACE OR BINDER COURSE MATERIAL 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

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

#### LOCATION OF STRUCTURES:

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

BASIS OF PAYMENT: FRAMES AND LIDS TO BE ADJUSTED, SPECIAL EACH

NEW FRAMES AND LIDS, WHEN SPECIFIED, WILL BE PAID FOR SEPARATELY.

#### DETAILS FOR FRAMES AND LIDS ADJUSTMENT WITH MILLING

ALL DIMENSIONS ARE IN MILLIMETERS (INCHES) UNLESS OTHERWISE SHOWN

ILLINOIS DEPARTMENT OF TRANSPORTATION

DETAILS FOR FRAMES AND LIDS ADJUSTMENT WITH MILLING

SCALE: NONE

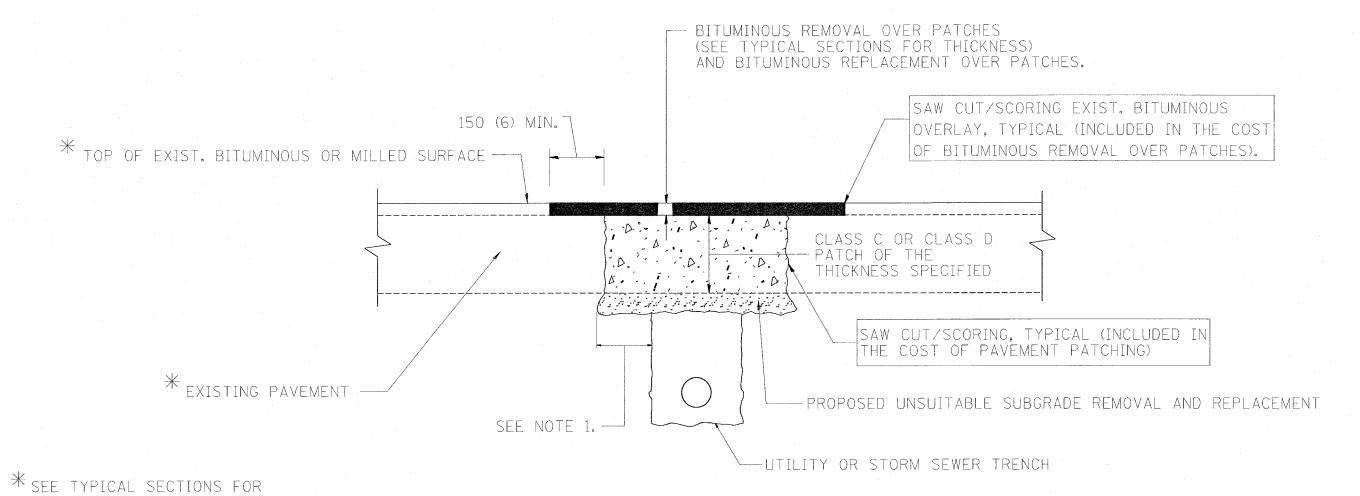
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REVISION DATE: 05/17/04

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#### NOTES:

THICKNESS AND MATERIALS

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

#### SEQUENCE OF CONSTRUCTION

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

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

| REVISIO   |          |     |
|-----------|----------|-----|
| 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 |     |
|           |          | SCA |

ILLINOIS DEPARTMENT OF TRANSPORTATION

PAVEMENT PATCHING FOR BITUMINOUS SURFACED PAVEMENT

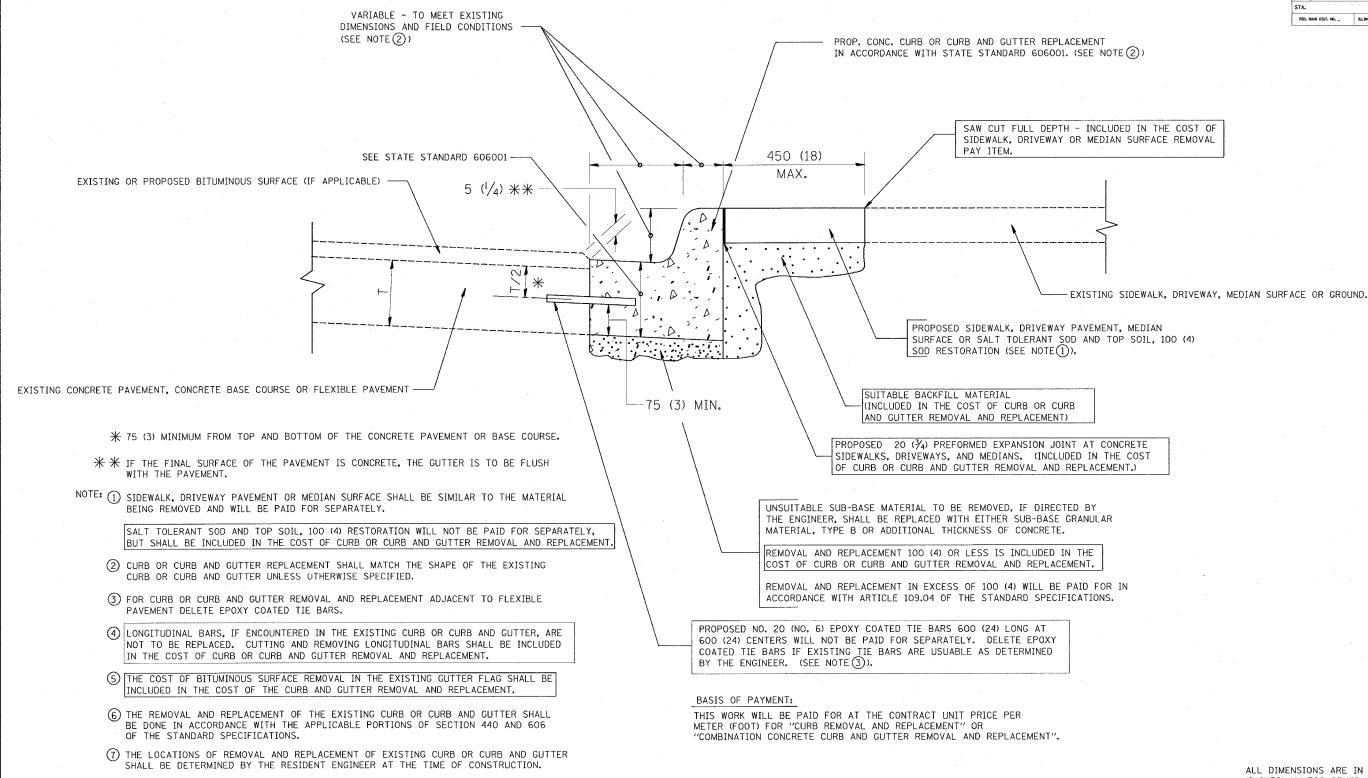
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BD400-04 (BD-22)

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

M. DE A. HO R. S R. S R. S A. ABBAS 03/21/97 SCALE: NONE

ALL DIMENSIONS ARE IN MILLIMETERS (INCHES) UNLESS OTHERWISE SHOWN. ILLINOIS DEPARTMENT OF TRANSPORTATION

|                          | DA 12    | ALTIVIES. |
|--------------------------|----------|-----------|
| OUDD OD                  | 05/28/91 | DE YONG   |
| CURB OR                  | 03/11/94 | OUSEH     |
|                          | 02/24/95 | SHAH      |
| CURB AND GUTTER          | 03/02/95 | SHAH      |
|                          | 08/19/96 | SHAH      |
| REMOVAL AND REPLACEMENT  | 09/12/96 | SHAH      |
| HEINOTHE FIND THE EFFECT | 09/19/96 | SHAH      |
|                          | 10/03/96 | SHAH      |

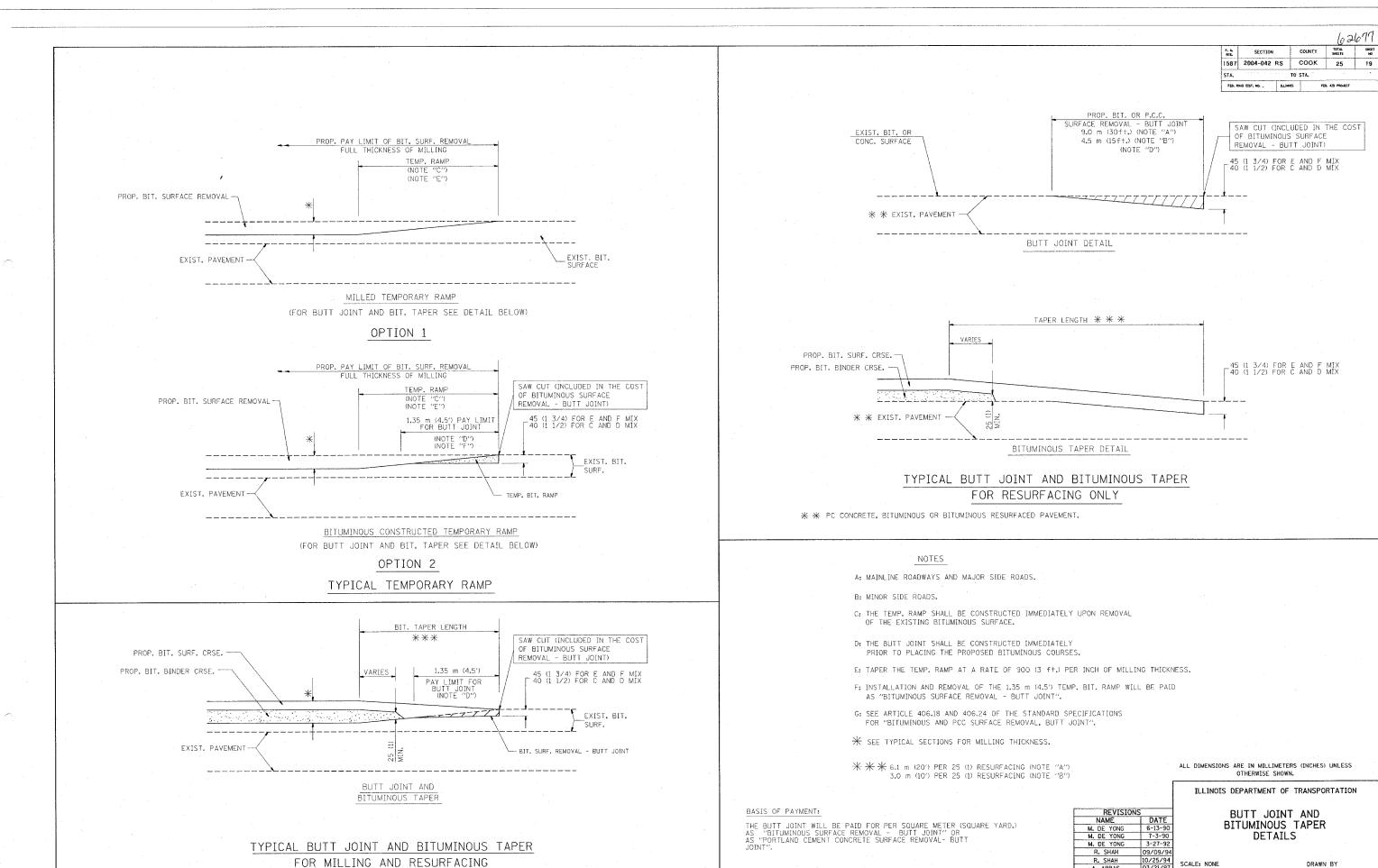
M. GOMEZ 01/22/01 DATE 3/9/2005

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BD600-06 (BD-24)

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REVISION DATE:12/06/88



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CHECKED BY BD400-05 (VI=BD32) REVISION DATE: 04/06/01

04/06/01

62677 TOTAL SHEET SHEETS NO

COUNTY

FED. AID PROJECT

62677 TOTAL SHEET SHEETS NO. SECTION COUNTY 1587 2004-042 RS COOK 25 20 STA. TO STA.

FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT

ROAD CONSTRUCTION TYPE III BARRICADES WITH TWO FLASHING AMBER LIGHTS ON EACH. AHEAD TYPE I OR TYPE II BARRICADES WITH ONE FLASHING AMBER LIGHT ON EACH, OR TYPE III BARRICADES WITH TWO FLASHING 60 m± (200'±)-AMBER LIGHTS ON EACH. DRIVEWAY STREET; SPEE 40 MPH OR LE 60 m± (200'±) (40 COLLECTOR LIMIT>60 km/h (

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 60 km/h (40 MPH) OR LESS AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
- d) ONE ROAD CONSTRUCTION AHEAD SIGN 900x900 (36x36) WITH A FLASHER AND FLAG MOUNTED ON IT APPROXIMATELY 60 m (200') 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 60 km/h (40 MPH) AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
- d) ONE ROAD CONSTRUCTION AHEAD SIGN 1.2 m x 1.2 m (48x48) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 150 m (500') 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:

ROAD CONSTRUCTION

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.

W20-1(0)

M6-4(0)-2115

M6-1(0)-2115

- 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.

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

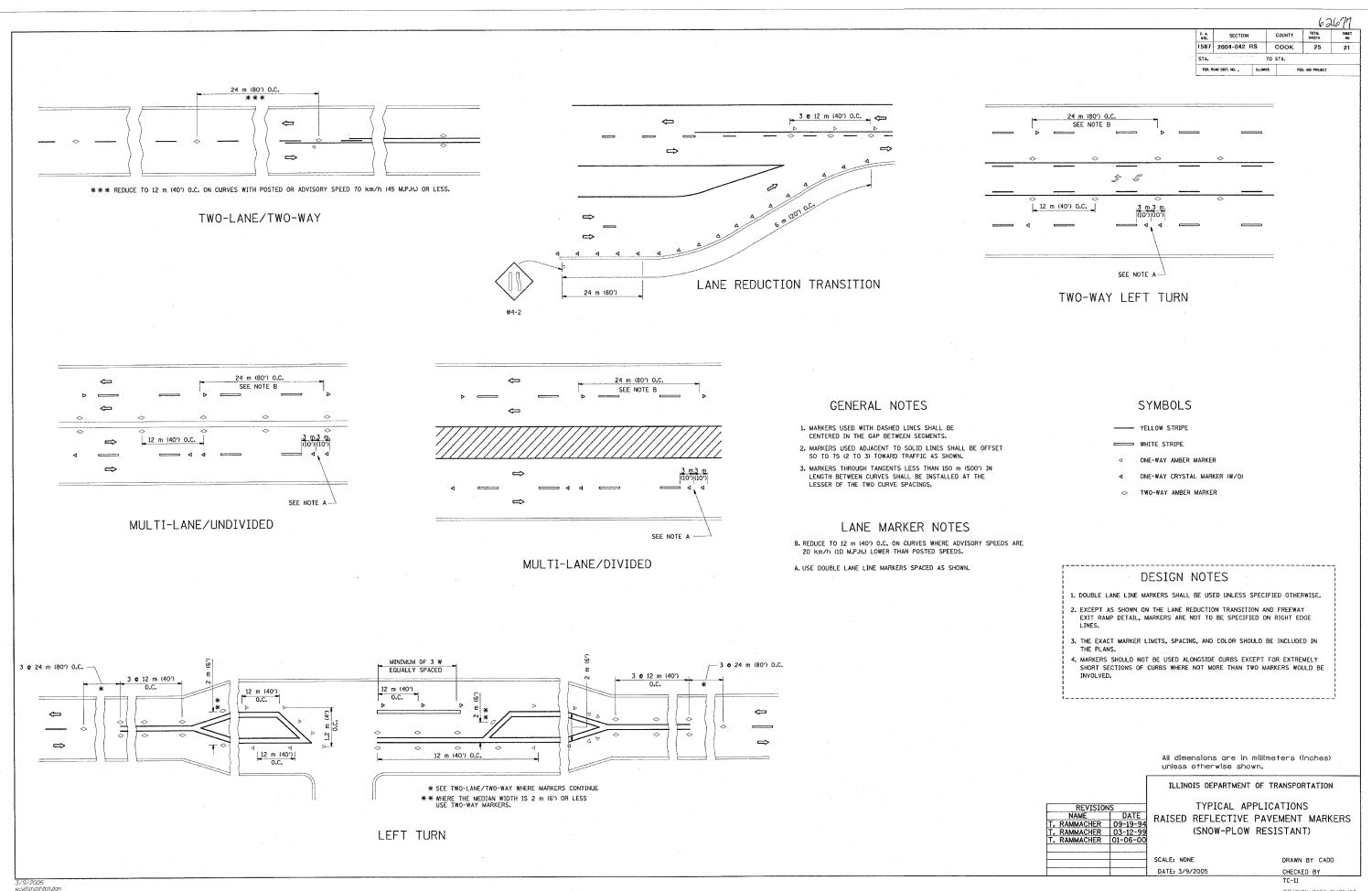
DRIVEWAYS

SCALE: VERT. HORIZ. DATE 3/9/2005

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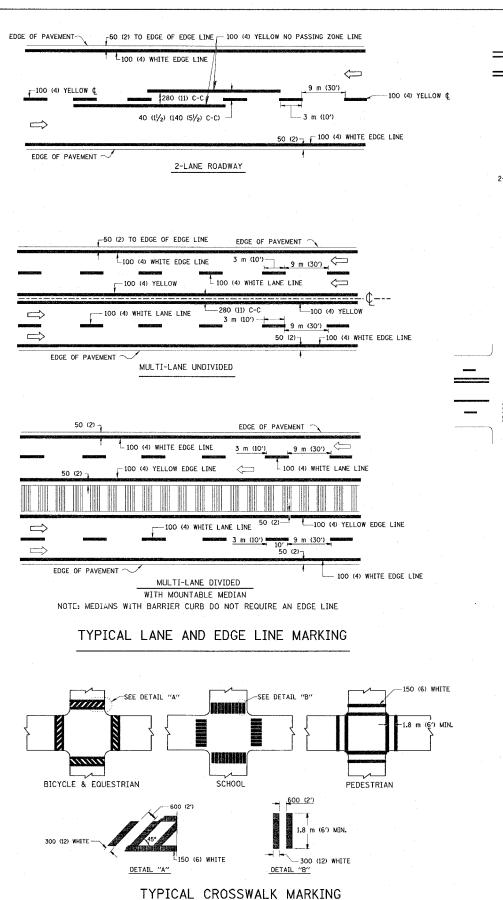
TC-10 REVISION DATE: 01/06/00

3/9/2005 w:\diststd\tcl0.dgn abebawa



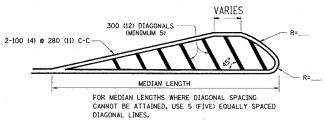
OB:45:21 03/09/2005

REVISION DATE: 01/06/00



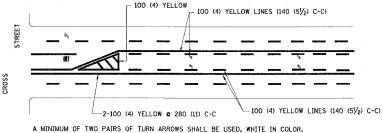
2-100 (4) YELLOW @ 280 (11) C-C-1.2 m (4') DUTSIDE TO NO DIAGONALS OUTSIDE OF LINES - 2-100 (4) YELLOW @ 280 (11) C-C

#### 1.2 m (4') WIDE MEDIANS ONLY

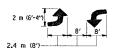


DIAGONAL LINE SPACING: 15 m (50') C-C (LESS THAN 50 km/h (30 MPH)) 25 m (75') C-C (50 km/h (30 MPH) TO 70 km/h (45 MPH)) 45 m (150') C-C (MORE THAN 70 km/h (45 MPH))

#### MEDIANS OVER 1.2 m (4') WIDE

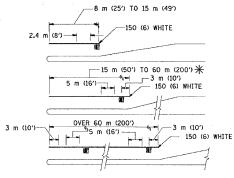


ADDITIONAL PAIRS SHALL BE PLACED AT 60 m (200') TO 90 m (300') INTERVALS.



MEDIAN WITH TWO-WAY LEFT TURN LANE

#### TYPICAL PAINTED MEDIAN MARKING



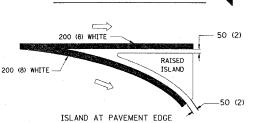
FULL SIZE LETTERS 2.4 m (8') AND ARROWS SHALL BE USED.  $\uphiangle$  AREA = 1.5 m<sup>2</sup> (15.6 SQ. FT.)  $\uphiangle$  AREA = 1.9 m<sup>2</sup> (20.8 SQ. FT.)

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

TYPICAL LEFT (OR RIGHT) TURN LANE

#### TYPICAL TURN LANE MARKING

200 (8) WHITE -300 (12) WHITE DIAGONALS 2 3 m (10') OR LESS SPACING ISLAND OFFSET FROM PAVEMENT EDGE



#### TYPICAL ISLAND MARKING

| TYPE OF MARKING   | WIDTH OF LINE   | PATTERN                 | COLOR                          | SPACING / REMARKS   |
|---|---|-------------------------|--------------------------------|---|
| CENTERLINE ON 2 LANE PAVEMENT   | 100 (4)   | SKIP-DASH               | YELLOW -                       | 3 m (10') LINE WITH 9 m (30') SPACE   |
| CENTERLINE ON MULTI-LANE UNDIVEDED PAVEMENT   | 2 @ 100 (4)   | SOLID                   | YELLOW                         | 280 (II) C-C  |
| NO PASSING ZONE LINES:<br>FOR ONE DIRECTION<br>FOR BOTH DIRECTIONS                          | 100 (4)<br>2 @ 100 (4)  | SOLID<br>SOLID          | YELLOW<br>YELLOW               | 140 (5)/2) C-C FROM SKIP-DASH CENTERLINE<br>280 (11) C-C<br>OMIT SKIP-DASH CENTERLINE BETWEEN   |
| LANE LINES  | 100 (4)<br>125 (5) ON FREEWAYS  | SKIP-DASH<br>SKIP-DASH  | WHITE<br>WHITE                 | 3 m (10') LINE WITH 9 m (30') SPACE   |
| DOTTED LINES (EXTENSIONS OF CENTER, LANE OR TURN LANE MARKINGS)                             | SAME AS LINE BEING<br>EXTENDED  | SKIP-DASH               | SAME AS LINE BEING<br>EXTENDED | 600 (2') LINE WITH 1.8 m (6') SPACE   |
| EDGE LINES  | 100 (4)   | SOLID                   | YELLOW-LEFT<br>WHITE-RIGHT     | OUTLINE MOUNTABLE MEDIANS IN<br>YELLOW; EDGE LINES ARE NOT<br>USED NEXT TO BARRIER CURB   |
| TURN LANE MARKINGS  | 150 (6) LINE; FULL<br>SIZE LETTERS &<br>SYMBOLS (2.4 m (8'))                          | SOLID                   | WHITE                          | SEE TYPICAL TURN LANE MARKING DETAIL  |
| TWO WAY LEFT TURN MARKING   | 2 @ 100 (4)<br>EACH DIRECTION   | SKIP-DASH<br>AND SOLID  | YELLOW                         | 3 m (10') LINE WITH 9 m (30') SPACE FOR<br>SKIP-DASH; 140 (5½) C-C BETWEEN SOLID<br>LINE AND SKIP-DASH LINE   |
|   | 2.4 m (8') LEFT ARROW   | IN PAIRS                | WHITE                          | SEE TYPICAL TWO-WAY LEFT TURN<br>MARKING DETAIL   |
| CROSSWALK LINES (PEDESTRIAN) A. DIAGONALS (BIKE & EQUESTRIAN) B. LONGITUDINAL BARS (SCHOOL) | 2 @ 150 (6)<br>300 (12) @ 45°<br>300 (12) @ 90°                                       | SOLID<br>SOLID<br>SOLID | WHITE<br>WHITE<br>WHITE        | NOT LESS THAN 1.8 m (6') APART<br>600 (2') APART<br>600 (2') APART<br>SEE TYPICAL CROSSWALK MARKING DETAILS.  |
| STOP LINES  | 600 (24)  | SOLID                   | WHITE                          | PLACE 1.2 m (4) IN ADVANCE OF AND PARALLEL TO CROSSWALK, IF PRESENT. OTHERMISE, PLACE AT DESIRED STOPPING POINT. PARALLEL TO CROSSROAD CENTERLINE, WHERE POSSIBLE |
| PAINTED MEDIANS   | 2 @ 100 (4) WITH<br>300 (12) DIAGONALS<br>@ 45°                                       | SOLID                   | YELLOW:<br>TWO WAY TRAFFIC     | 280 (11) C-C FOR THE DOUBLE LINE SEE TYPICAL PAINTED MEDIAN MARKING.  |
|   | NO DIAGONALS USED FOR<br>1.2 m (4') WIDE MEDIANS                                      |                         | WHITE:<br>ONE WAY TRAFFIC      | SEE ITFICAL FAINTEU MEUIAN MARRING.   |
| GORE MARKING AND CHANNELIZING LINES   | 200 (8) WITH 300 (12)<br>DIAGONALS @ 45°  | SOLID                   | WHITE                          | DIAGONALS:<br>4.5 m (15°) C-C (LESS THAN 50 km/h (30 MPH))<br>6 m (20°) C-C (50 km/h (30 MPH) TO 70 km/h (45 MPH))<br>9 m (30°) C-C (OVER 70 km/h (45 MPH))       |
| RAILROAD CROSSING   | 600 (24) TRANSVERSE<br>LINES; "RR" IS 1.8 m<br>(6') LETTERS; 400 (16)<br>LINE FOR "X" | SOLID                   | WHITE                          | SEE STATE STANDARD 780001<br>AREA 0F:<br>"%"20,33m2 (3.6 SQ. FT.) EACH<br>"X"=5.0 m2 (54.0 SQ. FT.)   |
| SHOULDER DIAGONALS  | 300 (12) <b>e</b> 45°   | SOLID                   | WHITE - RIGHT<br>YELLOW - LEFT | 15 m (50') C-C (LESS THAN 50 km/h (30 MPH))<br>25 m (75') C-C (50 km/h (30 MPH) TO 70 km/h (45 MPH))<br>45 m (150') C-C (OVER 70 km/h (45 MPH))                   |

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

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

ILLINOIS DEPARTMENT OF TRANSPORTATION DISTRICT ONE

TYPICAL PAVEMENT MARKINGS

SCALE: NONE DATE 3/9/2005 DRAWN BY CADD CHECKED BY

62677

SECTION COUNTY TOTAL SHEET NO 

TO STA.

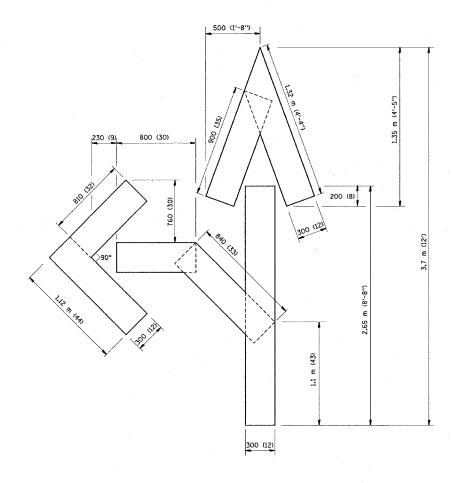
REVISION DATE: 01/06/00

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3/9/2005 wi\diststd\tcl3.dgn VI=TCl3

TC-13

FEO. ROAD DIST. NO. \_ ILLINOIS FED. AID PROJECT



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

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

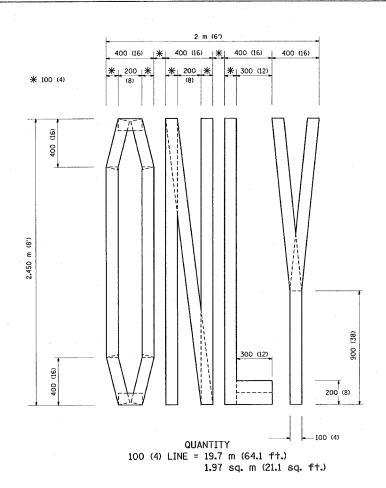
ILLINOIS DEPARTMENT OF TRANSPORTATION

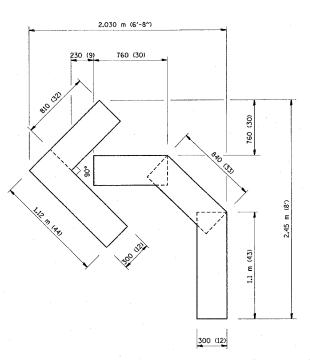
REVISIONS
NAME DATE
MMACHER 09/18/94
ERLE 06/01/96
FOR TRAFFIC STAGING

SCALE: NONE DATE 3/9/2005 DRAWN BY CADD

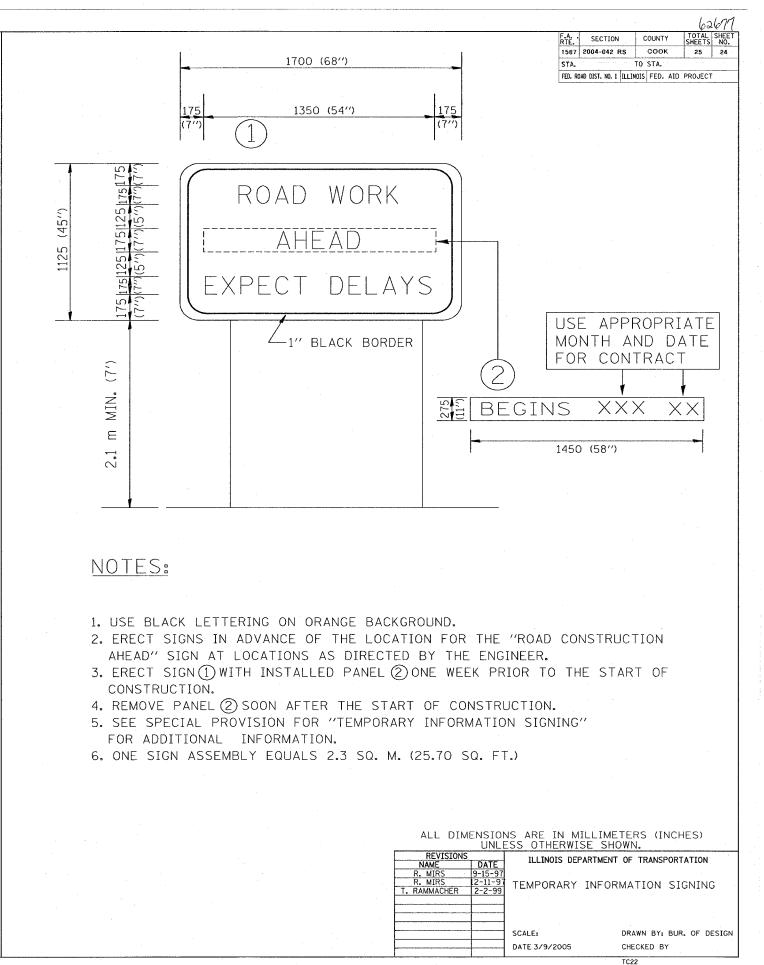
CHECKED BY TC-16

REVISION DATE: 08/28/00





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

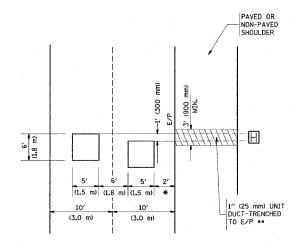


REVISION DATE: 02/02/99

w:BdiststdBtc22.dgn Vi=TC22

#### LOOPS NEXT TO SHOULDERS

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



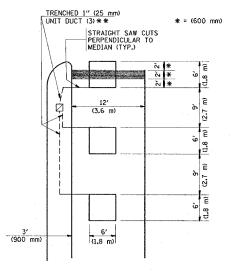
\* \* UNIT DUCT IS TO BE SHOWN ON PLAN SHEETS
BUT SHALL NOT BE INCLUDED IN THE PAY ITEMS

\* = (600 mm)

## 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.

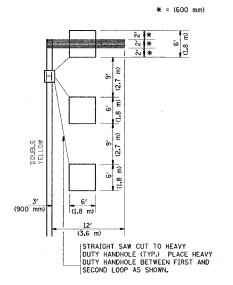


\*\* UNIT DUCT IS TO BE SHOWN ON PLAN SHEETS BUT SHALL NOT BE INCLUDED IN THE PAY ITEMS.

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

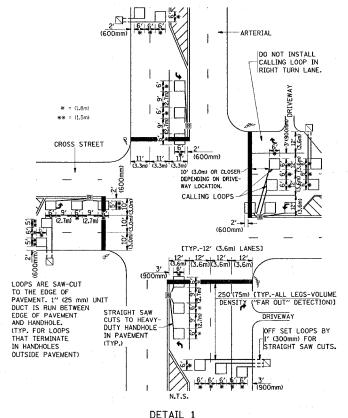
## LEFT TURN LANES WITHOUT MEDIANS VOLUME DENSITY ("FAR OUT" DETECTION) ON SAME APPROACH

(PROTECTED / PERMITTED LEFT TURN PHASING)

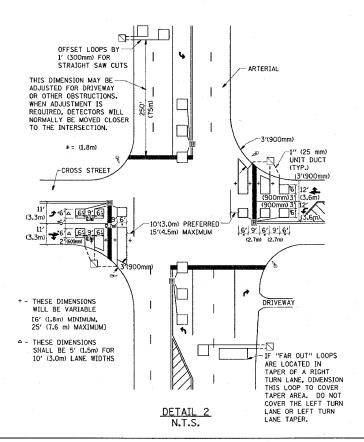


NOTE: DUAL LEFT TURNS NOT SHOWN REFER TO PLAN SHEET FOR DETECTOR LOOP REPLACEMENT

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



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



| COUNTY | SECTION | COUNTY | SHEET |

#### NOTES:

#### VEHICLES LOOP DETECTORS

- \* ALL LEAD IN CABLE SHALL BE TWO CONDUCTOR NO. 14 TWISTED, SHIELDED.
- \* EACH DETECTOR LOOP SHALL HAVE ITS OWN SAW CUT FROM THE LOOP TO THE EDGE OF PAVEMENT OR TO A HANDHOLE IN THE PAVEMENT.
- \* EACH DETECTOR LOOP SHALL HAVE ITS OWN ONE INCH (25 mm) UNIT DUCT BETWEEN THE EDGE OF PAVEMENT AND THE FIRST HANDHOLE OR JUNCTION BOX, EACH UNIT DUCT RUN SHALL BE SHOWN ON THE PLANS BY THE DESIGNER, BUT SHALL NOT BE PAID FOR SEPARATLY. THIS ITEM IS INCIDENTAL TO THE PAY ITEM FOR DETECTOR LOOPS.
- \* ONE DIMENSION OF ALL DETECTOR LOOPS SHALL BE SIX FEET (1.8 m)
- \* EACH LANE OF NON-LOCKING, PRESENCE DETECTION AND EACH LANE OF A DOUBLE LEFT TURN LANE REQUIRES A SEPARATE INDUCTIVE LOOP DETECTOR AND LEAD IN CABLE.
- \* WHEN NON-LOCKING, PRESENCE DETECTION IS USED, <u>MORE</u>
  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. <u>EACH</u> ONE OF THESE TYPE OF LOOPS REQUIRES A <u>SEPARATE</u> TWO CONDUCTOR NO. 14 TWISTED SHIELDED CABLE AND A <u>SEPARATE</u> 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  $\underline{\text{ALL}}$  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.

| e e                 | ILLINOIS DEPARTMENT       | OF TRANSPORTATION                                |
|---------------------|---------------------------|--|
| REVISIONS NAME DATE | DETECT(<br>INSTALLATI     | RICT 1<br>OR LOOP<br>ON DETAILS<br>RESURFACING   |
|                     | SCALE: NONE DATE 3/9/2005 | DRAWN BY CADD DESIGNED BY CHECKED BY R.K.F. TSO7 |

3/9/2005 w:\diststd\ts07.dgn VI=TS07

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REVISION DATE: