

| F.A. RTE. | SECTION        | COUNTY  | TOTAL SHEETS       | SHEET NO. |
|-----------|----------------|---------|--------------------|-----------|
| 3860      | 09-00005-00-RS | McHENRY | 9                  | 1         |
| ILLINOIS  |                |         | CONTRACT NO. 63223 |           |

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS

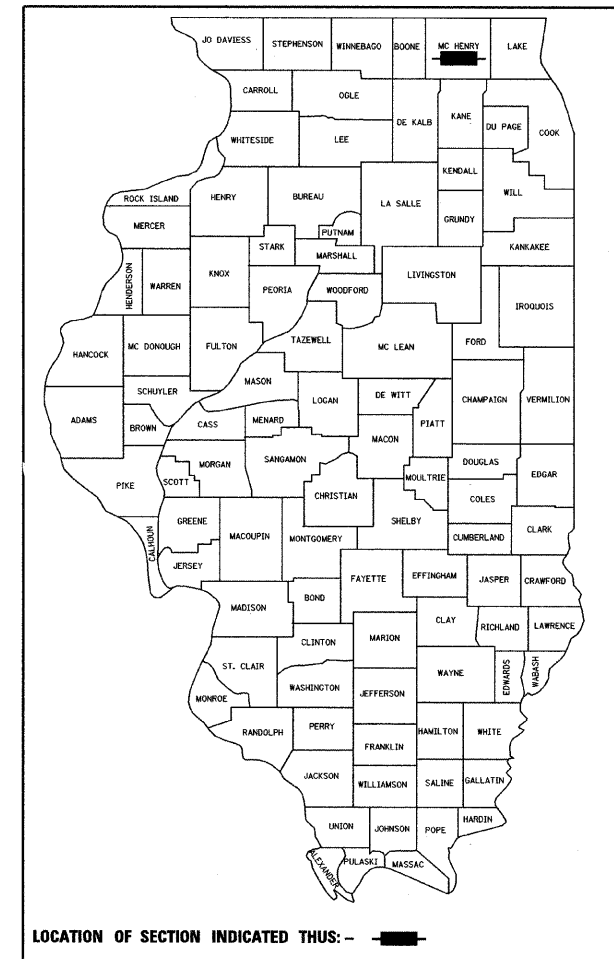
# PLANS FOR PROPOSED FEDERAL AID HIGHWAY

FAU ROUTE 3860 (BULL VALLEY ROAD),  
FROM SHELLY COURT RD TO VALLEY HILL ROAD  
STA 5+25 TO 41+10 & STA 108+25 TO 125+25

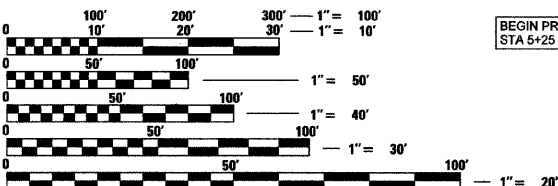
## RESURFACING SECTION 09-00005-00-RS PROJECT ARA-9003(311) MCHENRY COUNTY C-91-617-09 LOCATION MAP NOT TO SCALE

**INDEX OF SHEETS**

- 1 COVER SHEET
- 2 GENERAL NOTES, HIGHWAY STANDARDS AND SUMMARY OF QUANTITIES
- 3 TYPICAL SECTIONS
- 4 BULL VALLEY ROAD - WEST SECTION STA 5+25 TO STA 23+25
- 5 BULL VALLEY ROAD - WEST SECTION STA 23+25 TO STA 41+00
- 6 BULL VALLEY ROAD - EAST SECTION STA 108+28 TO STA 125+25
- 7-9 DISTRICT ONE DETAILS



**TRAFFIC DATA**  
ADT (2005) = 7,400  
POSTED SPEED LIMIT = 40 MPH  
DESIGN SPEED = 45 MPH  
CLASSIFICATION = PRINCIPAL ARTERIAL

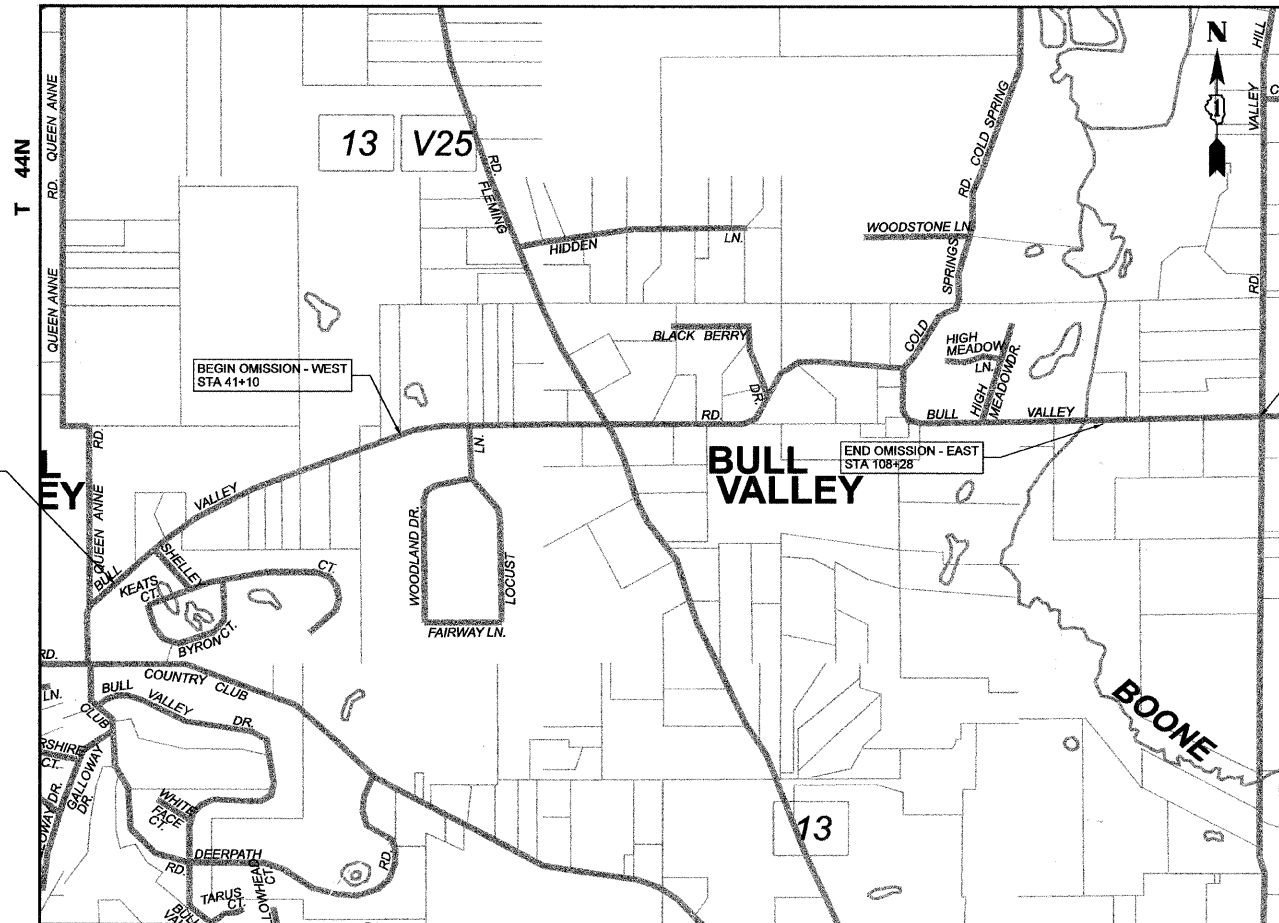


FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

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

PROJECT ENGINEER - DOUGLAS W RANNEY II, P.E.  
PROJECT MANAGER - DANIEL A WATSON, P.E.

CONTRACT NO. 63223



GROSS LENGTH OF PROJECT = 12,000 FT = 2.273 MILE  
NET LENGTH OF PROJECT = 5,280 LF = 1.000 MILE  
NET LENGTH OF OMISSION = 6,720 FT = 1.273 MILE

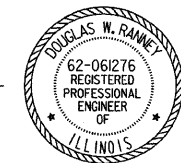
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS

APPROVED JUNE 30 20 09  
*Diane Miller* VILLAGE OF BULL VALLEY

PASSED JULY 16 20 09  
*C. Held* DISTRICT ONE ENGINEER OF LOCAL ROADS AND STREETS

RELEASING FOR BID BASED ON LIMITED REVIEW JULY 16 20 09  
*Diane M. O'Keefe* DEPUTY DIRECTOR OF HIGHWAYS, REGION ONE ENGINEER

*Douglas W. Ranney*  
DOUGLAS W. RANNEY  
REGISTERED PROFESSIONAL ENGINEER  
NO. 062-061276 EXPIRES 11-30-09



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

IDOT ASSOCIATE FIELD ENGINEER: KEVIN STALLWORTH, P.E. (847)705-4169

**GENERAL NOTES**

**1. SPECIFICATIONS, STANDARDS AND SPECIAL PROVISIONS:**

ALL CONSTRUCTION SHALL BE PERFORMED IN ACCORDANCE WITH THE ILLINOIS DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION", ADOPTED JAN. 1, 2007 (HEREINAFTER REFERRED TO AS THE STANDARD SPECIFICATIONS); THE "SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS", ADOPTED JANUARY 1, 2009; THE LATEST EDITION OF THE ILLINOIS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS"; THE "DETAILS" ON THE PLANS AND THE "SPECIAL PROVISIONS" INCLUDED IN THE CONTRACT DOCUMENTS.

ANY REFERENCE TO STANDARDS THROUGHOUT THE PLANS OR SPECIAL PROVISIONS SHALL BE INTERPRETED AS THE LATEST STANDARD OF THE DEPARTMENT.

**2. EXISTING UTILITIES:**

EXISTING UTILITIES ARE SHOWN ON THE PLANS ACCORDING TO INFORMATION OBTAINED FROM THE UTILITY COMPANIES, VILLAGE, AND FIELD SURVEYS. THE ACCURACY AND COMPLETENESS OF SAID INFORMATION IS NOT GUARANTEED. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THE EXISTENCE, NATURE, AND EXACT LOCATIONS OF ALL UTILITY LINES AND APPURTENANCES WITHIN THE LIMITS OF THE IMPROVEMENTS. THE CONTRACTOR SHALL GIVE PRIOR NOTIFICATION TO THE UTILITY COMPANIES AND THE VILLAGE OF HIS INTENTION TO BEGIN WORK.

SHOULD CERTAIN EXISTING UTILITY FACILITIES INTERFERE WITH THE PROPOSED CONSTRUCTION, THEY WILL HAVE TO BE REMOVED AND RELOCATED BY THE UTILITY COMPANIES. THE CONTRACTOR SHALL COORDINATE AND SCHEDULE THIS WORK WITH ALL AFFECTED UTILITY COMPANIES AND THE VILLAGE SO AS TO INSURE THE TIMELY COMPLETION AND MAINTENANCE OF SAID UTILITY FACILITIES.

THE CONTRACTOR SHALL BE HELD RESPONSIBLE FOR THE INTERFERENCE WITH OR DAMAGE TO ANY EXISTING UTILITY FACILITY AND APPURTENANCES SUCH AS WATER MAINS, SEWERS, GAS MAINS, ELECTRIC AND SIGNAL CABLES, CONDUITS, ETC., RESULTING FROM THE OPERATIONS OF HIS EQUIPMENT OR MEN AND SHALL REPAIR OR REPLACE SAME AT HIS OWN EXPENSE AND WITH THE LEAST POSSIBLE DELAY. NO EXTRA COMPENSATION WILL BE ALLOWED TO THE CONTRACTOR FOR ANY EXPENSES INCURRED BECAUSE OF THE DELAYS, INCONVENIENCES, OR INTERRUPTIONS TO HIS WORK RESULTING FROM COMPLIANCE WITH THE ABOVE REQUIREMENTS.

BEFORE STARTING ANY EXCAVATION, THE CONTRACTOR SHALL CALL "J.U.L.I.E." AT 800-892-0123 FOR FIELD LOCATIONS OR BURIED ELECTRIC, TELEPHONE, AND GAS FACILITIES (48 HOUR NOTIFICATION REQUIRED).

THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES AND THE VILLAGE OF BULL VALLEY.

**3. PROTECTION OF PUBLIC/PRIVATE PROPERTY:**

THE CONTRACTOR SHALL PROTECT ALL EXISTING TREES SCHEDULED TO REMAIN, SHRUBS, FENCES, DRAIN LINES, POWER LINES, AND OTHER PUBLIC/PRIVATE PROPERTY. ANY ITEM THAT IS DAMAGED SHALL BE REPLACED OR REPAIRED BY THE CONTRACTOR AS DIRECTED BY THE ENGINEER AT NO COST TO THE VILLAGE.

**4. EXISTING STREET CLEANLINESS:**

THE CONTRACTOR SHALL KEEP EXISTING AND ADJACENT STREETS CLEAN OF DIRT, MUD, AND OTHER DEBRIS AND, WHEN NECESSARY, CLEAN SAID PAVEMENTS ON A DAILY BASIS.

**5. REMOVAL, MAINTENANCE AND RESETTING EXISTING MAILBOXES, STREET SIGNS AND STOP SIGNS:**

EXISTING MAILBOXES, STREET SIGNS, AND STOP SIGNS WHICH INTERFERE WITH CONSTRUCTION SHALL BE REMOVED AND TEMPORARILY RELOCATED DURING CONSTRUCTION BY THE CONTRACTOR. AFTER THE WORK HAS BEEN SUBSTANTIALLY COMPLETED, SAID MAILBOXES AND SIGNS SHALL BE RESET AT A LOCATION SPECIFIED BY THE ENGINEER. THE COST OF THIS WORK SHALL BE CONSIDERED AS AN INCIDENTAL COST TO THE CONTRACT WITH NO ADDITIONAL COMPENSATION ALLOWED. ANY SIGN DAMAGED OR LOST SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE. TEMPORARY STOP SIGNS SHALL BE PLACED AS REQUIRED BY THE VILLAGE AS PART OF THE TRAFFIC CONTROL AND PROTECTION PAY ITEM.

**6. CONSTRUCTION LIMITS:**

THE CONTRACTOR SHALL CONFINE HIS OPERATIONS WITHIN THE DEDICATED ROADWAY RIGHT-OF-WAY OR EASEMENTS OBTAINED BY THE VILLAGE OF NORTH AURORA. ANY DAMAGE OUTSIDE OF SAID RIGHT-OF-WAY OR EASEMENTS SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.

**9. BARRICADES:**

THE CONTRACTOR SHALL PROVIDE AND INSTALL TWO (2) WEIGHTED SANDBAGS ON EACH TYPE I OR TYPE II BARRICADE USED. ONE (1) WEIGHTED SANDBAG ACROSS EACH RAIL.

**APPLICABLE HIGHWAY STANDARDS**

| STANDARD NO. | TITLE  |
|--------------|--|
| 442201-03    | CLASS C AND D PATCHES                          |
| 701301-03    | LANE CLOSURE, 2L 2W SHORT TIME OPERATIONS      |
| 701311-03    | LANE CLOSURE, 2L 2W MOVING OPERATIONS-DAY ONLY |
| 701901-01    | TRAFFIC CONTROL DEVICES                        |
| 780001-02    | TYPICAL PAVEMENT MARKINGS                      |

**SUMMARY OF QUANTITIES**

±000

| PAYCODE    | ITEM DESCRIPTION                             | UNIT  | TOTAL |
|------------|--|-------|-------|
| 40600100   | BITUMINOUS MATERIALS (PRIME COAT)            | GAL   | 4049  |
| 40600300   | AGGREGATE (PRIME COAT)                       | TON   | 34    |
| 40600625   | LEVELING BINDER (MACHINE METHOD), N-50       | TON   | 587   |
| 40600982   | HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT | SQ YD | 80    |
| 40603310   | HOT-MIX ASPHALT SURFACE COURSE, MIX C, N-50  | TON   | 1579  |
| 44201721   | CLASS D PATCHES, TYPE III, 6 INCH            | SQ YD | 100   |
| 44201723   | CLASS D PATCHES, TYPE IV, 6 INCH             | SQ YD | 1250  |
| 44300100   | AREA REFLECTIVE CRACK CONTROL TREATMENT      | SQ YD | 13500 |
| 48101200   | AGGREGATE SHOULDERS, TYPE B                  | TON   | 2146  |
| 67100100   | MOBILIZATION                                 | LSUM  | 1     |
| 70101700   | TRAFFIC CONTROL AND PROTECTION               | LSUM  | 1     |
| 70300100   | SHORT-TERM PAVEMENT MARKING                  | FOOT  | 480   |
| 70301000   | WORK ZONE PAVEMENT MARKING REMOVAL           | SQ FT | 159   |
| * 78001110 | PAINT PAVEMENT MARKING - LINE, 4"            | FOOT  | 21130 |
| * 78001180 | PAINT PAVEMENT MARKING - LINE, 24"           | FOOT  | 24    |
| X0322256   | TEMPORARY INFORMATION SIGNING                | SQ FT | 50    |

\* SPECIALTY ITEMS

|                                     |                            |                  |           |
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|                                     | PLOT DATE = 6/29/2009      | DATE - MAY 2009  | REVISED - |

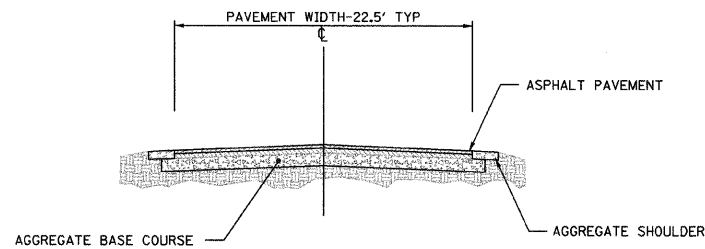
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**GENERAL NOTES, HIGHWAY STANDARDS,  
DETAILS AND SUMMARY OF QUANTITIES**

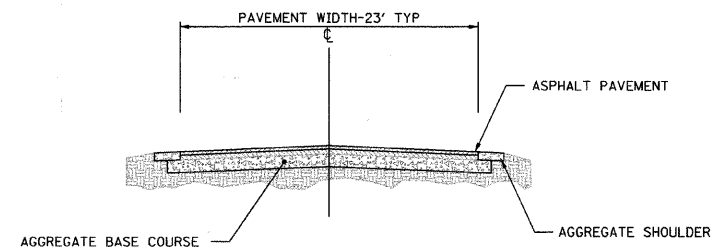
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| F.A.U. RTE.               | SECTION        | COUNTY  | TOTAL SHEETS       | SHEET NO. |
|---------------------------|----------------|---------|--------------------|-----------|
| 3860                      | 09-00005-00-RS | MCHENRY | 9                  | 2         |
|                           |                |         | CONTRACT NO. 63223 |           |
| ILLINOIS FED. AID PROJECT |                |         |                    |           |

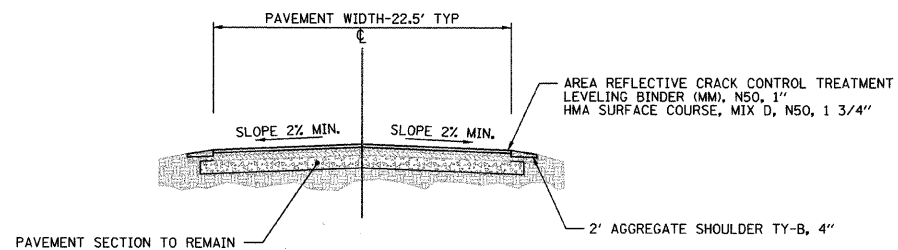
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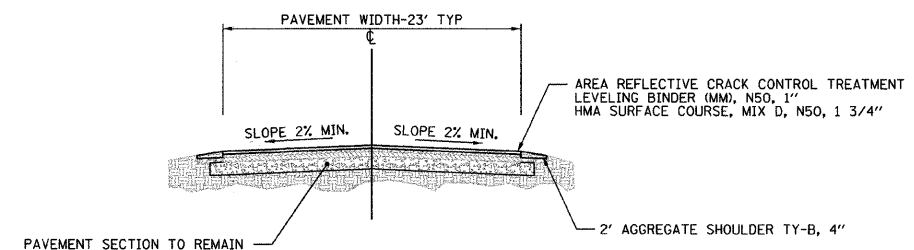
**TYPICAL SECTION - EXISTING**  
**BULL VALLEY ROAD STA 5+25 TO 41+10**



**TYPICAL SECTION - EXISTING**  
**BULL VALLEY ROAD STA 108+28 TO 125+25**



**TYPICAL SECTION - PROPOSED**  
**BULL VALLEY ROAD STA 5+25 TO 41+10**



**TYPICAL SECTION - PROPOSED**  
**BULL VALLEY ROAD STA 108+28 TO 125+25**

**HOT MIX ASPHALT MIXTURE REQUIREMENT**

| ITEM  | AC TYPE   | VOIDS       |
|---|-----------|-------------|
| <b>PAVEMENT RESURFACING</b>                             |           |             |
| HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50 (IL-9.5mm) | 64-22     | 4% @ 50 GYR |
| LEVELING BINDER (MACHINE METHOD), N50 (IL-9.5 mm)       | 64-22 *   | 4% @ 50 GYR |
| <b>PATCHING</b>   |           |             |
| CLASS D PATCHES, (HMA BINDER IL-19mm)                   | PG 64-22* | 4% @ 70 GYR |

THE UNIT WEIGHT USED TO CALCULATE ALL HMA SURFACE MIXTURE QUANTITIES IS 112#/SY-IN.  
 \* WHEN RAP EXCEEDS 20%, THE ASPHALT BINDER IN THE MIX SHALL BE PG58-22.

|                                     |                            |                  |           |
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|                                     | PLOT DATE = 6/29/2009      | DATE - MAY 2009  | REVISED - |

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**EXISTING AND PROPOSED TYPICAL SECTIONS**  
**BULL VALLEY ROAD**

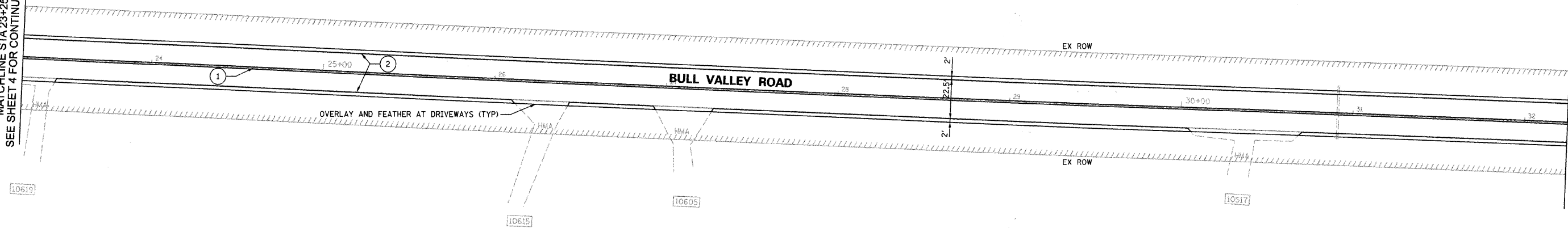
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|                           |                |         |                    |           |
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| F.A.U. RTE.               | SECTION        | COUNTY  | TOTAL SHEETS       | SHEET NO. |
| 3860                      | 09-00005-00-RS | MCHENRY | 9                  | 3         |
|                           |                |         | CONTRACT NO. 63223 |           |
| ILLINOIS FED. AID PROJECT |                |         |                    |           |

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MATCHLINE STA 23+25  
SEE SHEET 4 FOR CONTINUATION

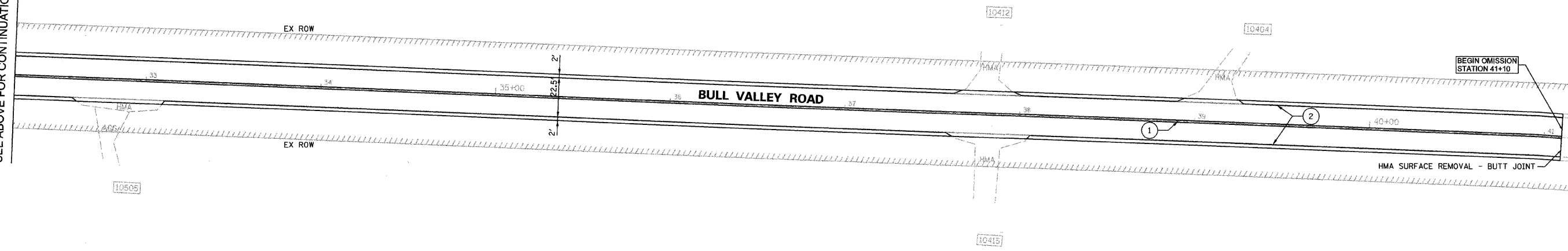


MATCHLINE STA 32+25  
SEE BELOW FOR CONTINUATION

**PAVEMENT MARKINGS LEGEND**

- ① PAINT PAVEMENT MARKING - LINE 4"  
DOUBLE YELLOW @ 11" C-C
- ② PAINT PAVEMENT MARKING - LINE 4"  
WHITE

MATCHLINE STA 32+25  
SEE ABOVE FOR CONTINUATION



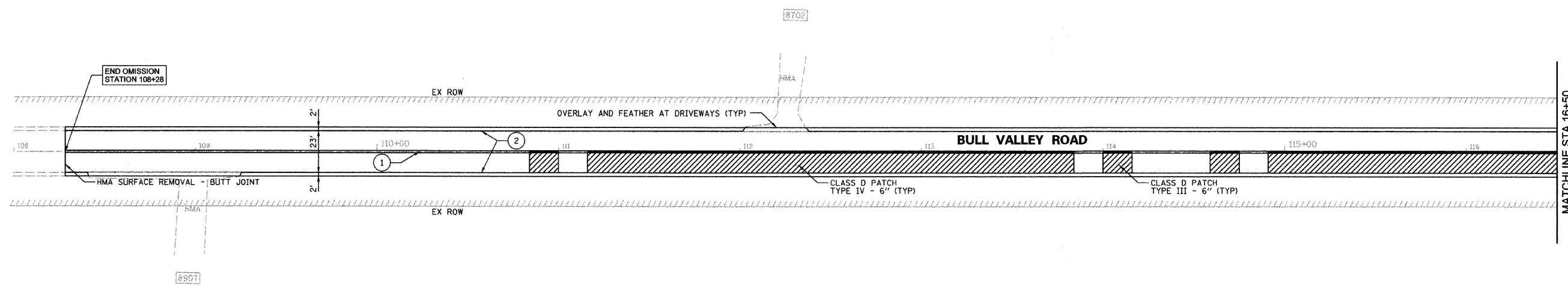
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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**BULL VALLEY ROAD  
WEST SECTION**  
SCALE: 1" = 30'  
SHEET NO. 5 OF 6 SHEETS  
STA. 23+25 TO STA. 41+10

|                        |                           |                   |                           |                |
|------------------------|---------------------------|-------------------|---------------------------|----------------|
| F.A.U.<br>RTE.<br>3860 | SECTION<br>09-00005-00-RS | COUNTY<br>MCHENRY | TOTAL SHEETS<br>9         | SHEET NO.<br>5 |
| CONTRACT NO. 63223     |                           |                   | ILLINOIS FED. AID PROJECT |                |

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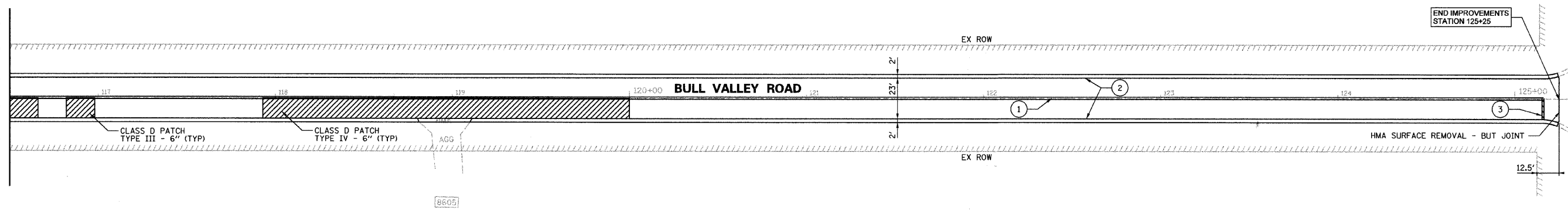
MATCHLINE STA 16+50  
SEE BELOW FOR CONTINUATION



**PAVEMENT MARKINGS LEGEND**

- ① PAINT PAVEMENT MARKING - LINE 4"  
DOUBLE YELLOW @ 11" C-C
- ② PAINT PAVEMENT MARKING - LINE 4"  
WHITE
- ③ PAINT PAVEMENT MARKING - LINE 24"

MATCHLINE STA 16+50  
SEE ABOVE FOR CONTINUATION



END IMPROVEMENTS  
STATION 125+25



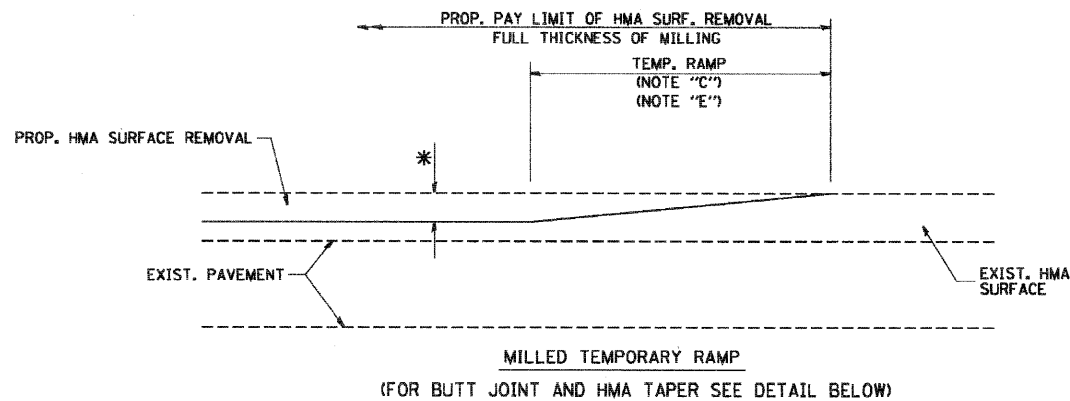
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| PLOT DATE = 6/29/2009   |                   |                  |           |

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

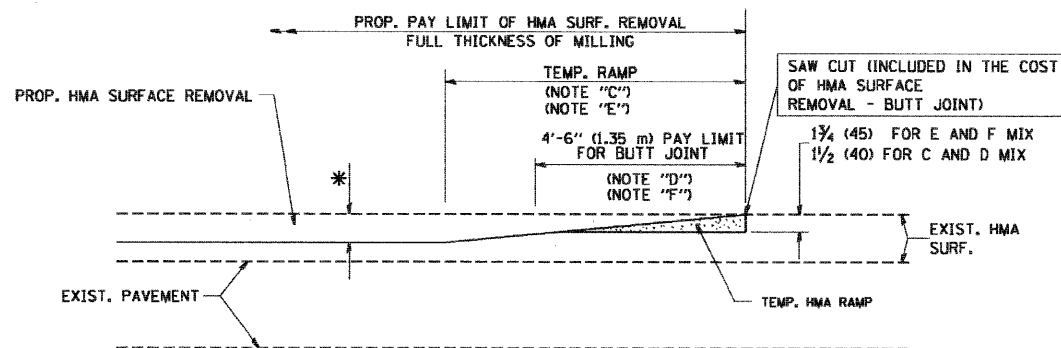
**BULL VALLEY ROAD  
EAST SECTION**  
SCALE: 1" = 30'  
SHEET NO. 6 OF 6 SHEETS  
STA. 108+28 TO STA. 125+25

|                        |                           |                   |                           |                   |
|------------------------|---------------------------|-------------------|---------------------------|-------------------|
| F.A.U.<br>RTE.<br>3860 | SECTION<br>09-00005-00-RS | COUNTY<br>MCHENRY | TOTAL<br>SHEETS<br>9      | SHEET<br>NO.<br>6 |
| CONTRACT NO. 63223     |                           |                   | ILLINOIS FED. AID PROJECT |                   |

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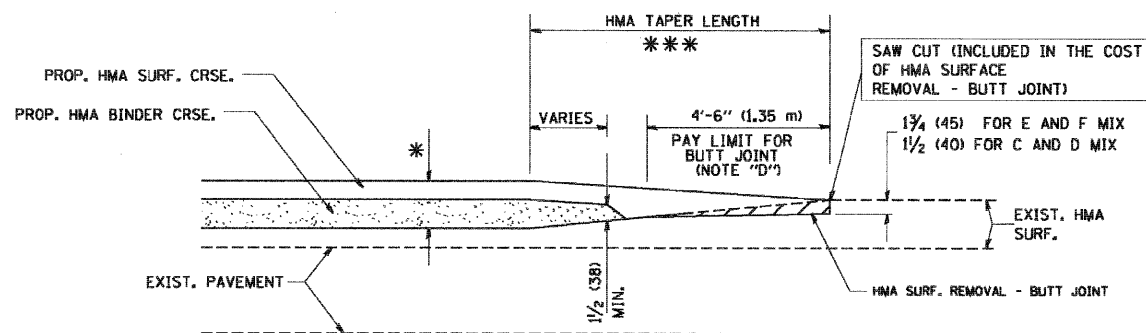
OPTION 1



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

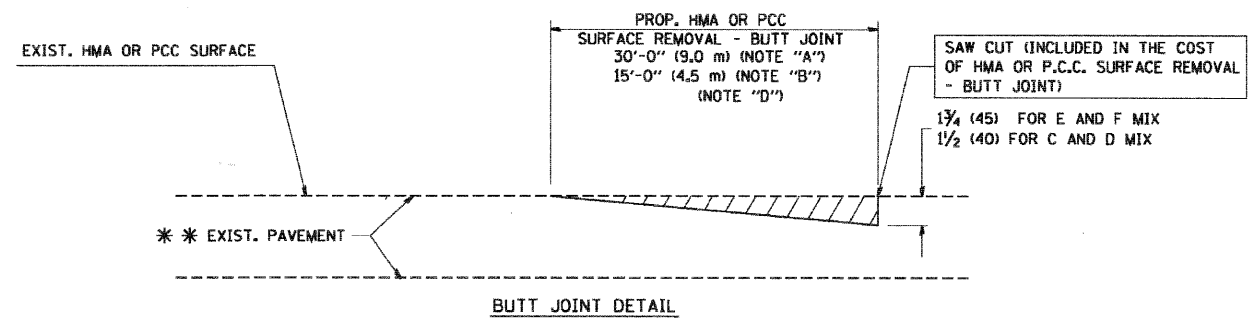
OPTION 2

TYPICAL TEMPORARY RAMP

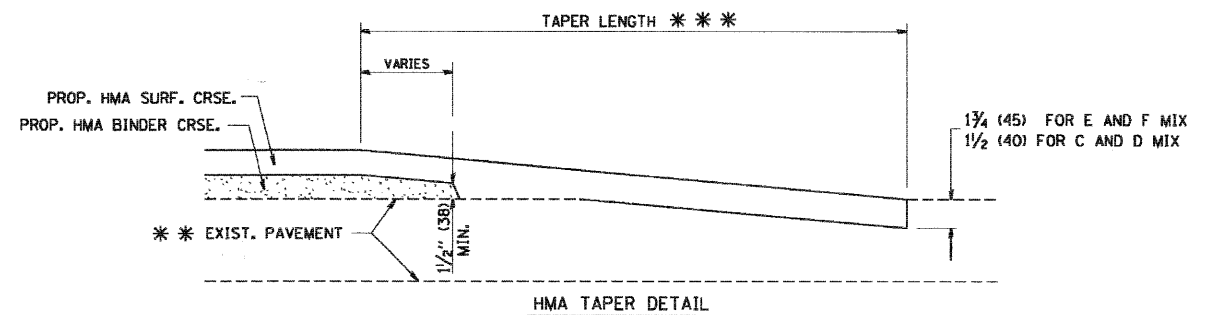


BUTT JOINT AND  
HMA TAPER

TYPICAL BUTT JOINT AND HMA TAPER  
FOR MILLING AND RESURFACING



BUTT JOINT DETAIL



HMA TAPER DETAIL

TYPICAL BUTT JOINT AND HMA TAPER  
FOR RESURFACING ONLY

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

NOTES

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

\*\*\* 20'-0" (6.1 m) PER 1 (25) RESURFACING (NOTE "A")  
10'-0" (3.0 m) PER 1 (25) RESURFACING (NOTE "B")

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

BASIS OF PAYMENT:

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

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

ILLINOIS DEPARTMENT OF TRANSPORTATION

BUTT JOINT AND  
HMA TAPER  
DETAILS

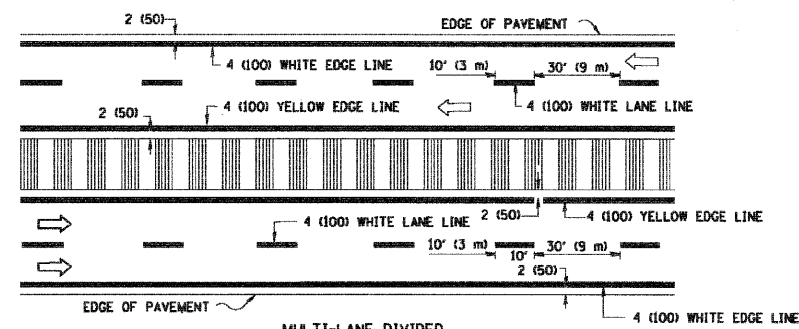
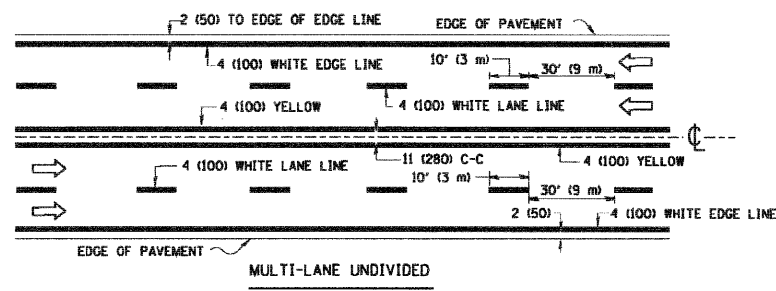
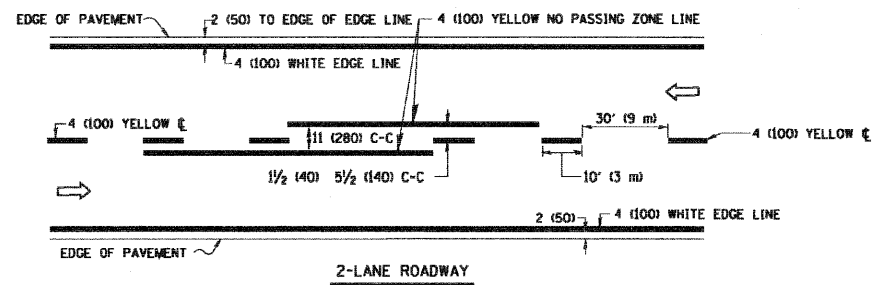
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| CHECKED BY                       |         | F.A.U. RTE.        |           |
| SECTION                          | COUNTY  | TOTAL SHEETS       | SHEET NO. |
| 09-00005-00-RS                   | MCHENRY | 9                  | 7         |
| BD400-05 BD32                    |         | CONTRACT NO. 63223 |           |
| ILLINOIS FED. AID PROJECT        |         |                    |           |

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| PLOT SCALE = 1.00 Ft / IN.            | CHECKED - DWR       | CHECKED - DWR    | REVISED - |
| PLOT DATE = 6/29/2009                 | DATE - MAY 2009     | DATE - MAY 2009  | REVISED - |

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

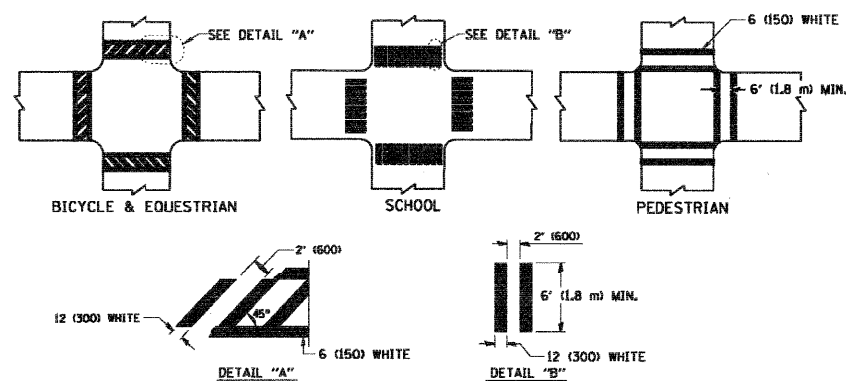
BUTT JOINT AND  
HMA TAPER DETAILS

SCALE: N.T.S. SHEET NO. 7 OF 9 SHEETS

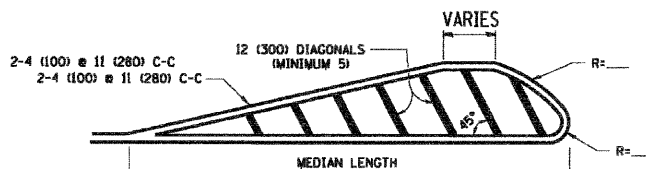
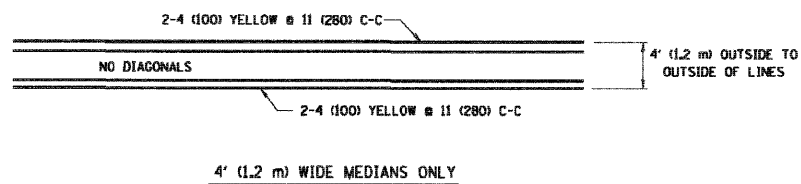


NOTE: MEDIANS WITH BARRIER CURB DO NOT REQUIRE AN EDGE LINE

**TYPICAL LANE AND EDGE LINE MARKING**

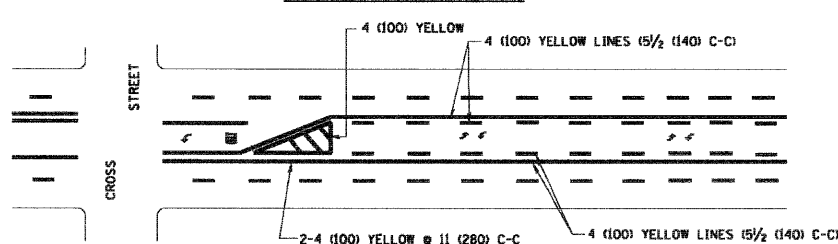


**TYPICAL CROSSWALK MARKING**



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

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

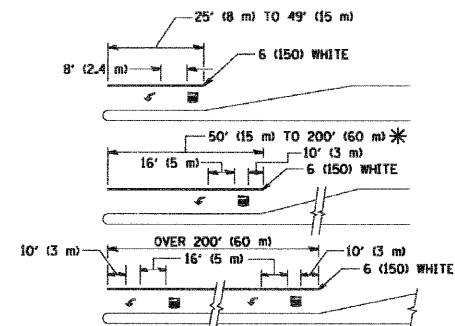


A MINIMUM OF TWO PAIRS OF TURN ARROWS SHALL BE USED, WHITE IN COLOR. ADDITIONAL PAIRS SHALL BE PLACED AT 200' (60 m) TO 300' (90 m) INTERVALS.



**MEDIAN WITH TWO-WAY LEFT TURN LANE**

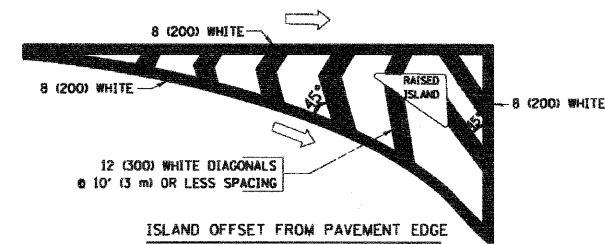
**TYPICAL PAINTED MEDIAN MARKING**



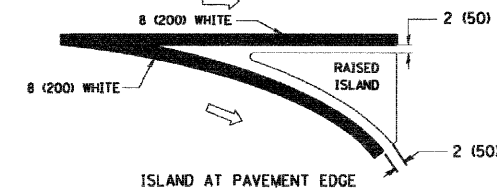
FULL SIZE LETTERS 8" (2.4 m) AND ARROWS SHALL BE USED.  
 \* AREA = 15.6 SQ. FT. (1.5 m<sup>2</sup>) \* AREA = 20.8 SQ. FT. (1.9 m<sup>2</sup>)  
 \* TURN LANES IN EXCESS OF 400' (120 m) IN LENGTH MAY HAVE AN ADDITIONAL SET OF ARROW - "ONLY" INSTALLED MIDWAY BETWEEN THE OTHER TWO SETS OF ARROW - "ONLY".

**TYPICAL LEFT (OR RIGHT) TURN LANE**

**TYPICAL TURN LANE MARKING**



**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                                  | 5/2 (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; 5/2 (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>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; TWO WAY TRAFFIC<br>WHITE; 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" 15 (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.

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

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 DISTRICT ONE  
 TYPICAL PAVEMENT MARKINGS

SCALE: NONE

DRAWN BY CADD  
 CHECKED BY

|   |  |                                   |                                     |
|---|--|-----------------------------------|-------------------------------------|
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| PLOT SCALE = 1/8" = 1'-0"                         | CHECKED - DWR                                  | DATE - MAY 2009                   | REVISED -                           |
| PLOT DATE = 6/25/2009                             |  |                                   |                                     |

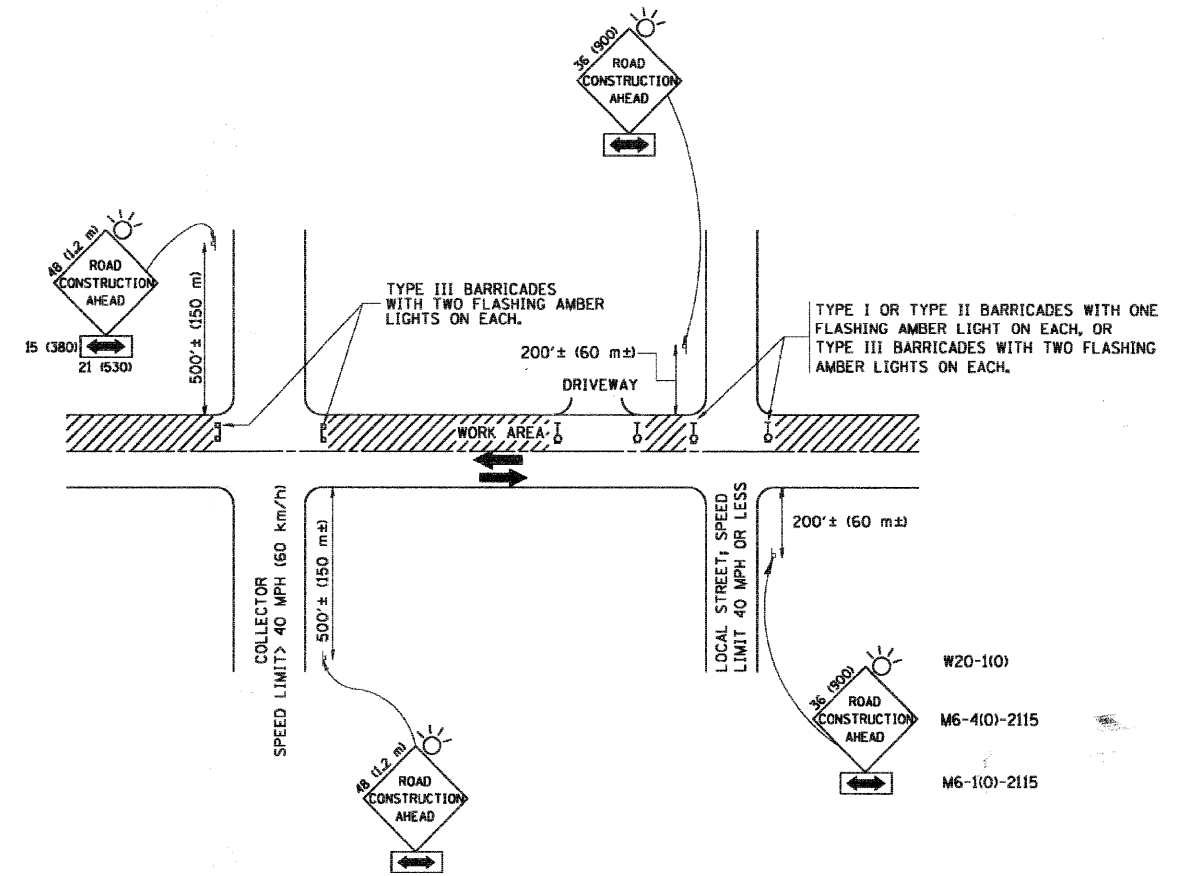
STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

DISTRICT ONE  
 TYPICAL PAVEMENT MARKINGS

SCALE: N.T.S. SHEET NO. 8 OF 9 SHEETS

|                           |                           |                    |                   |                |
|---------------------------|---------------------------|--------------------|-------------------|----------------|
| F.A.U. RTE.<br>3860       | SECTION<br>09-00005-00-RS | COUNTY<br>MCHENRY  | TOTAL SHEETS<br>9 | SHEET NO.<br>8 |
| TC-13                     |                           | CONTRACT NO. 63223 |                   |                |
| ILLINOIS FED. AID PROJECT |                           |                    |                   |                |





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

NOTES:

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

1. SIDE ROAD WITH A SPEED LIMIT OF 40 MPH (60 km/h) OR LESS AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:

a) ONE ROAD CONSTRUCTION AHEAD SIGN 36 x 36 (900x900) WITH A FLASHER AND FLAG MOUNTED ON IT APPROXIMATELY 200' (60 m) IN ADVANCE OF THE MAIN ROUTE.

b) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE I, TYPE II OR TYPE III BARRICADES, 1/3 OF THE CROSS SECTION OF THE CLOSED PORTION.

2. SIDE ROAD WITH A SPEED LIMIT GREATER THAN 40 MPH (60 km/h) AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:

a) ONE ROAD CONSTRUCTION AHEAD SIGN 48 x 48 (1.2 m x 1.2 m) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 500' (150 m) IN ADVANCE OF THE MAIN ROUTE.

b) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE III BARRICADES, 1/2 OF THE CROSS SECTION OF THE CLOSED PORTION.

3. WHEN THE SIDE ROAD LIES BETWEEN THE BEGINNING OF THE MAINLINE SIGNING AND THE WORK ZONE, A SINGLE HEADED ARROW (M6-1) SHALL BE USED IN LIEU OF THE DOUBLE HEADED ARROW (M6-4).

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

USE APPLICABLE PORTIONS OF THE TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES (STD. 701501, STD. 701606 OR THE APPROPRIATE STANDARD). THE SPACING OF SIGNS AND BARRICADES SHALL BE ADJUSTED FOR FIELD CONDITIONS AS DIRECTED BY THE ENGINEER. THE DIRECTIONAL ARROW SHALL BE COVERED OR REMOVED WHEN NO LONGER CONSISTENT WITH THE SIDE ROAD LANE CLOSURE.

C. ADVANCE WARNING SIGNS ARE TO BE OMITTED ON DRIVEWAY UNLESS OTHERWISE NOTED.

D. THE TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS SHALL BE INCIDENTAL TO THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

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

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

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

SCALE: NONE DRAWN BY  
CHECKED BY

|                                     |                            |                  |           |
|-------------------------------------|----------------------------|------------------|-----------|
| FILE NAME =                         | USER NAME = .USER.         | DESIGNED - DR/MS | REVISED - |
| m\dgn\bv\42.2009streets\sheeta\BV42 | TrafficControlDetail.dgn   | DRAWN - DR/GR    | REVISED - |
|                                     | PLOT SCALE = 1.00 Ft / IN. | CHECKED - DWR    | REVISED - |
|                                     | PLOT DATE = 6/29/2009      | DATE - MAY 2009  | REVISED - |

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

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

SCALE: N.T.S. SHEET NO. 9 OF 9 SHEETS

|                           |                |         |                    |           |
|---------------------------|----------------|---------|--------------------|-----------|
| F.A.U. RTE.               | SECTION        | COUNTY  | TOTAL SHEETS       | SHEET NO. |
| 3860                      | 09-00005-00-RS | MCHENRY | 9                  | 9         |
| TC-10                     |                |         | CONTRACT NO. 63223 |           |
| ILLINOIS FED. AID PROJECT |                |         |                    |           |