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STANDARDS

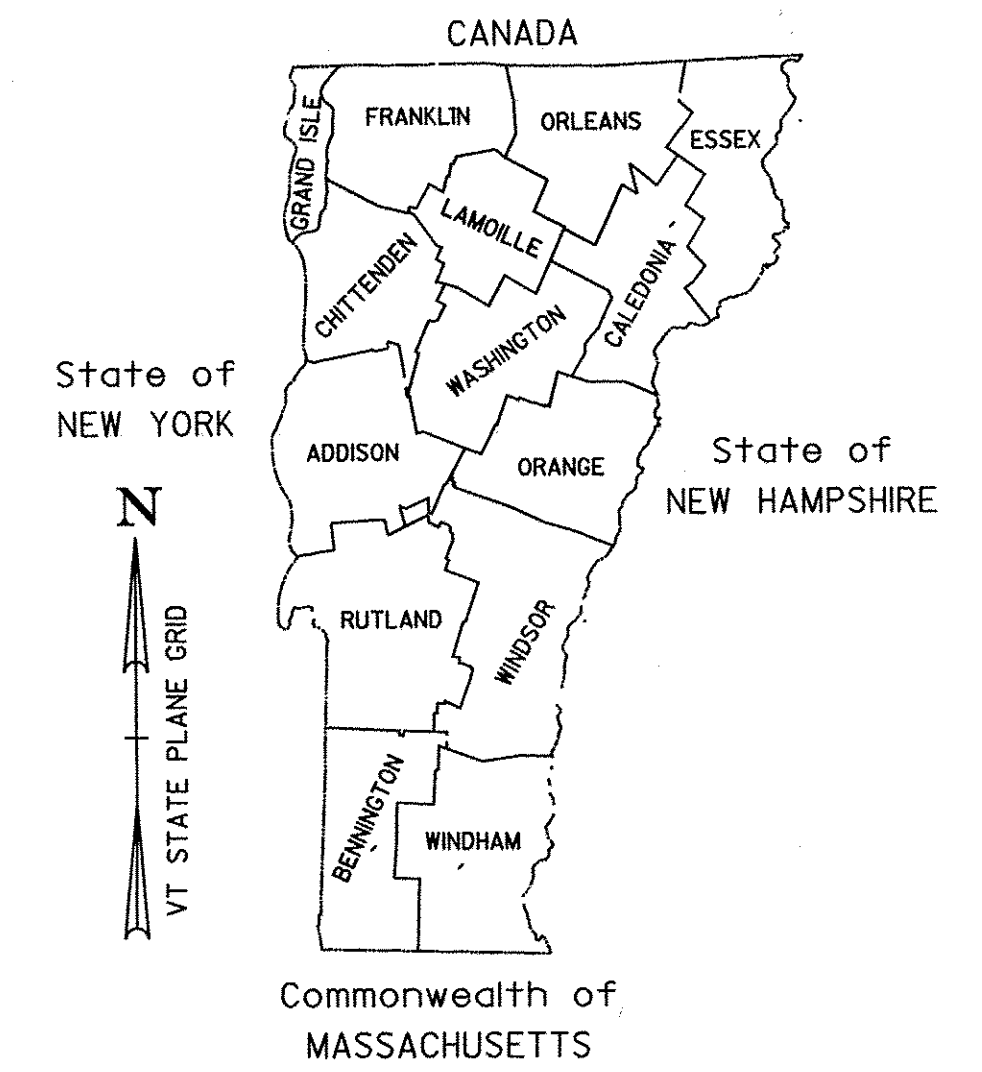
|        |  |          |
|--------|--|----------|
| E-100  | CONSTRUCTION APPROACH SIGNS  | 01/02/04 |
| E-101  | CONSTRUCTION SIGN DETAIL   | 05/30/03 |
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| E-103  | MAINLINE TRAFFIC CONTROL, DIVIDED HIGHWAY<br>ONE LANE CLOSED           | 03/01/04 |
| E-105  | TRAFFIC CONTROL FOR CONSTRUCTION VEHICLE<br>U-TURNS ON DIVIDED HIGHWAY | 05/01/04 |
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| E-110  | MAJOR MAINTENANCE OPERATION LANE CLOSURE                               | 08/08/95 |

# STATE OF VERMONT AGENCY OF TRANSPORTATION

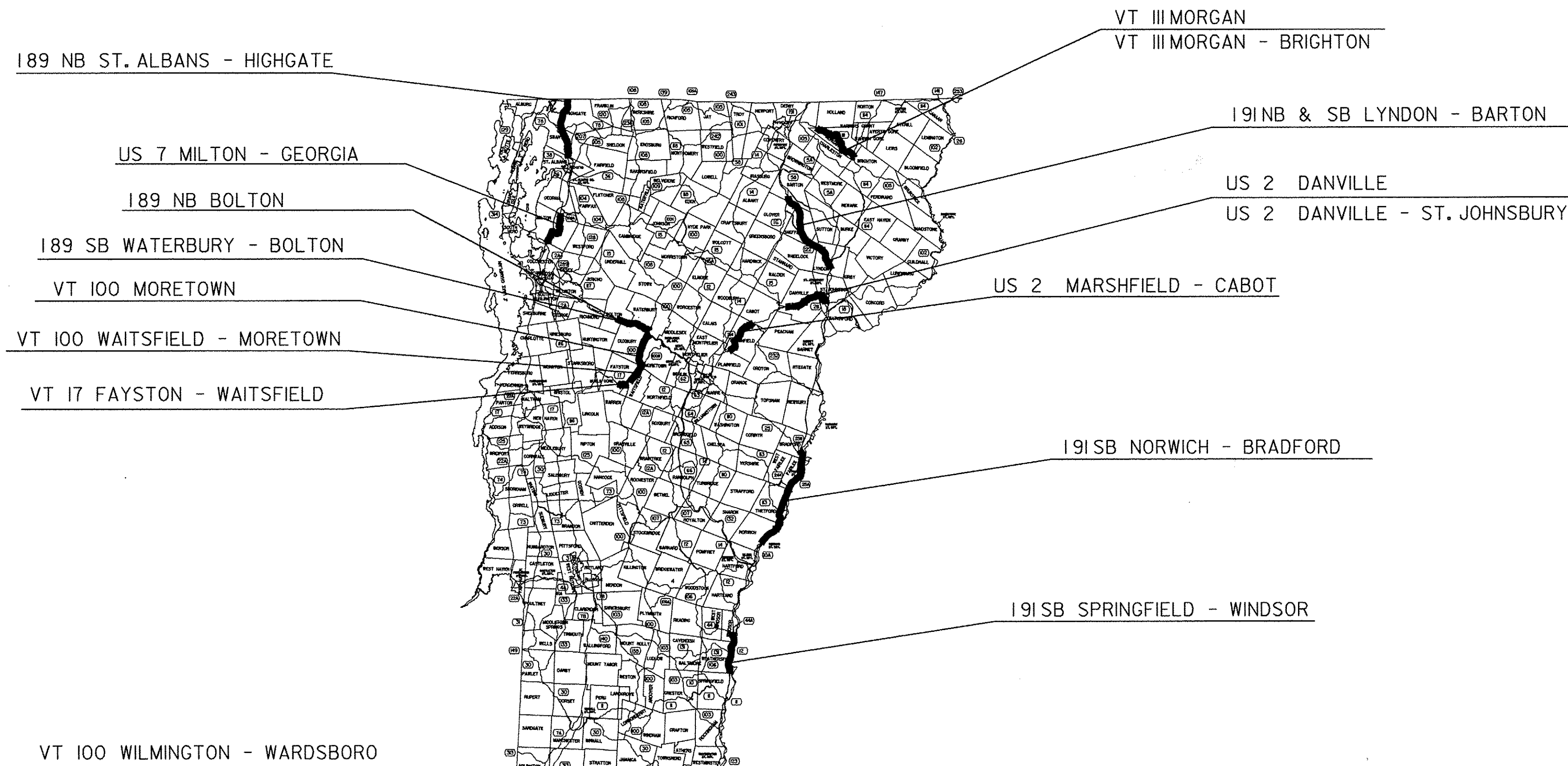


## PROPOSED IMPROVEMENT STATEWIDE CRACK SEALING

WORK TO BE PERFORMED UNDER THIS PROJECT INCLUDES THE  
ROUTING AND SEALING OF CRACKS IN BITUMINOUS CONCRETE  
PAVEMENT ON EXISTING STATE, U.S., AND INTERSTATE HIGHWAYS  
AND THE APPROPRIATE TRAFFIC CONTROL.



| RECORD PLANS   |                                  |
|--|----------------------------------|
| CONTRACTOR:  | NICOM COATINGS CORP - BERLIN, VT |
| RESIDENT ENGINEER:   | JOHN SLADYK                      |
| CONSTRUCTION BEGAN:  | MAY 11, 2009                     |
| CONSTRUCTION COMPLETE:   | NOVEMBER 2, 2009                 |
| RECORD PLANS BY:   | JOHN SLADYK & CRAIG PIERCE       |
| I HEREBY CERTIFY THAT ALL THE CONSTRUCTION REQUIRED BY THIS SET OF DRAWINGS HAS BEEN ACCOMPLISHED AS INDICATED HEREIN.   |                                  |
| BY:  | RESIDENT ENGINEER                |
| DATE:  | 5-18-2012                        |
| NOTE: Any further information concerning final quantities, amounts or other details relative to this project may be found at Central Files in the electronic archives. |                                  |

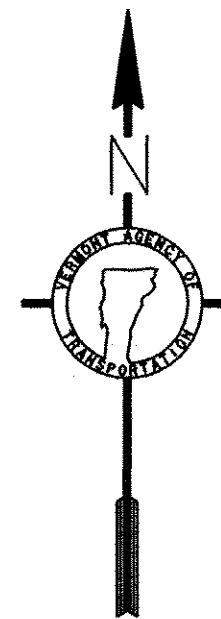


CONVENTIONAL SYMBOLS

|                    |  |
|--------------------|--|
| COUNTY LINE        |  |
| TOWN LINE          |  |
| LIMITS OF ACCESS   |  |
| POINT OF ACCESS    |  |
| FENCE LINE         |  |
| STONE WALL         |  |
| TRAVELED WAY       |  |
| GUARD RAIL         |  |
| RAILROAD           |  |
| SURVEY LINE        |  |
| CULVERT            |  |
| POWER POLE         |  |
| TELEPHONE POLE     |  |
| TREES              |  |
| CONTROL OF ACCESS  |  |
| PROPERTY LINE      |  |
| R.O.W. TAKING LINE |  |
| SLOPE RIGHTS       |  |
| TOP OF CUT         |  |
| TOE OF SLOPE       |  |

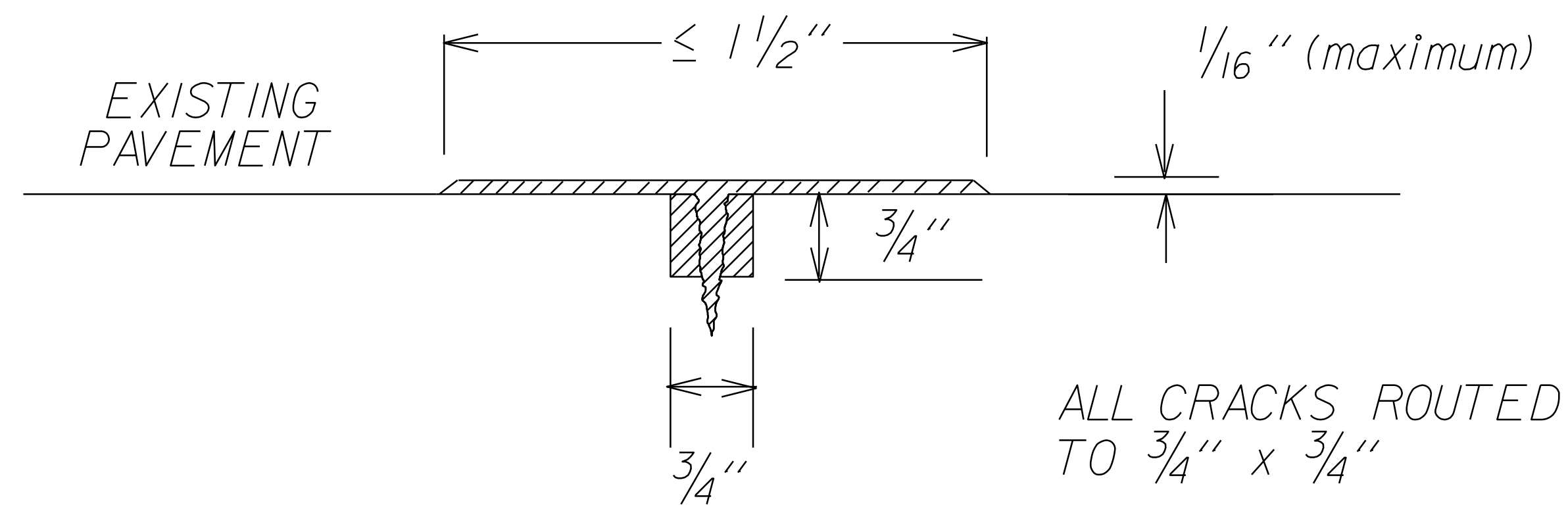
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SURVEYED DATE : N/A

DATUM  
VERTICAL N/A  
HORIZONTAL N/A

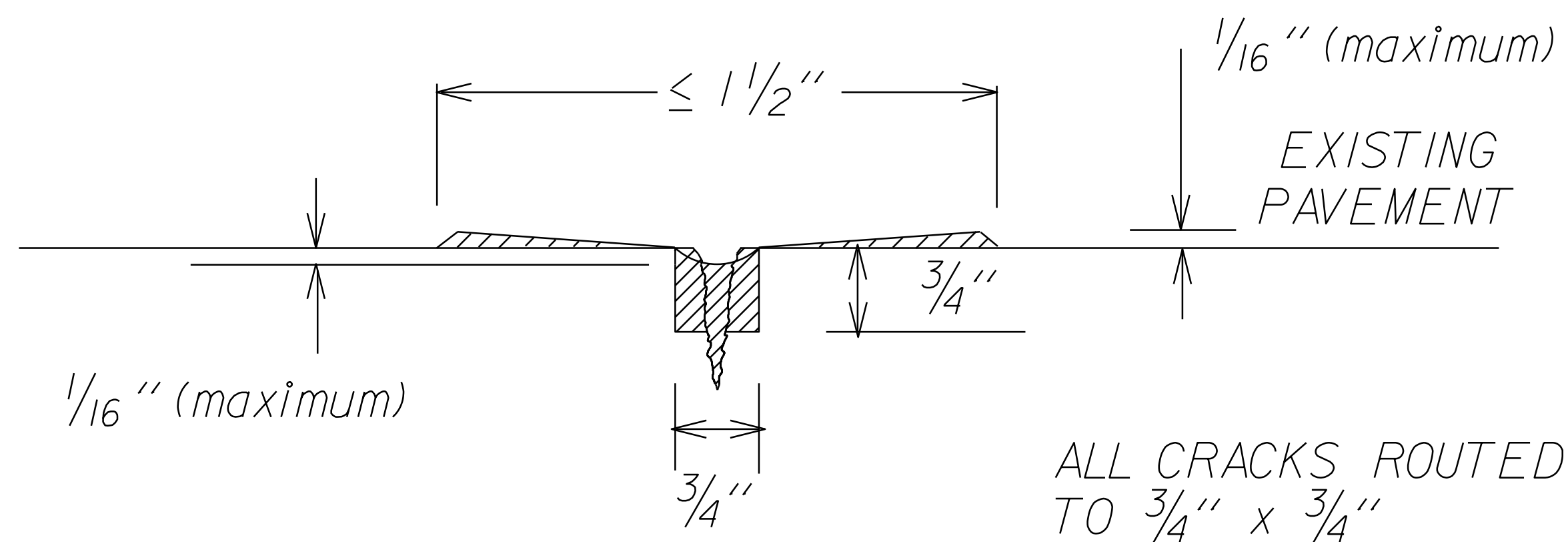


THESE PLANS ARE SUBJECT TO SUCH ENGINEERING CHANGES AS MAY BE REQUIRED BY THE FEDERAL HIGHWAY ADMINISTRATION OR THE DIRECTOR OF PROGRAM DEVELOPMENT.  
CONSTRUCTION IS TO BE CARRIED ON IN ACCORDANCE WITH THESE PLANS AND THE STANDARD SPECIFICATIONS FOR CONSTRUCTION DATED 2006, AS APPROVED BY THE FEDERAL HIGHWAY ADMINISTRATION ON JUNE 15, 2006 FOR USE ON THIS PROJECT, INCLUDING ALL SUBSEQUENT REVISIONS AND SUCH REVISED SPECIFICATIONS AND SPECIAL PROVISIONS AS ARE INCORPORATED IN THESE PLANS.

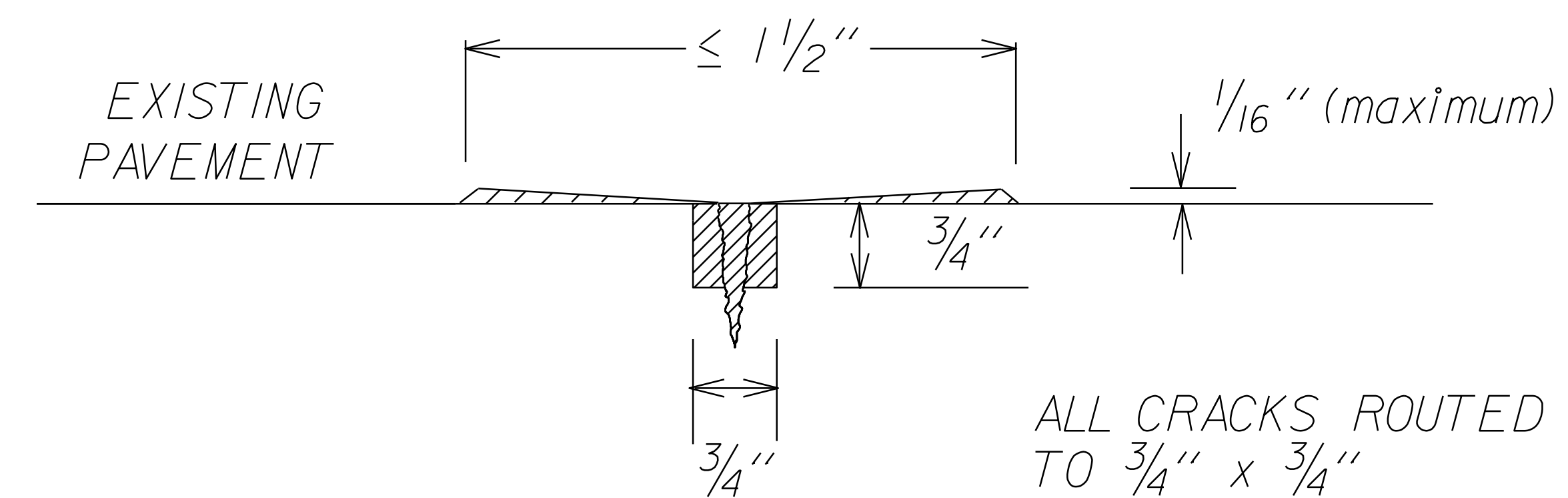
|                                 |              |
|---------------------------------|--------------|
| DIRECTOR OF PROGRAM DEVELOPMENT |              |
| APPROVED                        | DATE 2/24/09 |
| PROJECT MANAGER : DOMEY         |              |
| PROJECT NAME : STATEWIDE        |              |
| PROJECT NUMBER : STP CRACK (27) |              |
| SHEET 1 OF 6 SHEETS             |              |



MAXIMUM FILL DEPTH



MINIMUM FILL DEPTH



TARGET FLUSH FILL

ALL CRACKS ROUTED TO 3/4" x 3/4"

ALL CRACKS ROUTED TO 3/4" x 3/4"

ALL CRACKS ROUTED TO 3/4" x 3/4"

NOTES

1. A STRIKE OFF FLUSH FILL TECHNIQUE WILL BE USED FOR MATERIAL APPLICATION. STRIKE OFF MAY BE ACCOMPLISHED WITH A SQUEEGEE.
2. ALL CRACKS WILL BE ROUTED TO 3/4" BY 3/4" PRIOR TO SEALING. ROUTED CRACKS SHALL BE SEALED WITHIN THE SAME WORKDAY.
3. CRACKS THAT ARE TO BE ROUTED AND SEALED SHOULD HAVE WIDTHS NO LESS THAN 0.10" AND NO GREATER THAN 3/4". ALL OTHERS TO BE LEFT AS IS UNLESS DIRECTED OTHERWISE BY THE ENGINEER.
4. LIMITS OF WORK SHOWN ON PLANS, BEGIN AND END M.M., MAY BE ADJUSTED AS DIRECTED BY THE ENGINEER TO ACCOUNT FOR CONDITIONS IN THE FIELD.
5. AMBIENT TEMPERATURE RANGE: 40°F TO 104°F REQUIRED FOR APPLICATION OF THE CRACK SEALANT MATERIAL.
6. PAVEMENT TEMPERATURE RANGE: 50°F TO 140°F REQUIRED FOR APPLICATION OF THE CRACK SEALANT MATERIAL.
7. RELATIVE HUMIDITY SHOULD BE LESS THAN 80 PERCENT FOR APPLICATION OF THE CRACK SEALANT MATERIAL.
8. PAVEMENT SURFACE AND CRACKS MUST BE CLEAN AND DRY PRIOR TO APPLICATION.
9. TEMPERATURE OF SEALANT SHALL BE WITHIN THE MANUFACTURER'S SPECIFIED TEMPERATURE RANGE AT APPLICATION.
10. BACKFLUSHING OF HOSE AND APPLICATOR WAND IS NECESSARY ANYTIME THE APPLICATION OF SEALANT HAS BEEN DELAYED FOR A PERIOD GREATER THAN 15 MINUTES.
11. THE DISTANCE BETWEEN APPLICATOR AND SQUEEGEE SHOULD BE LESS THAN 3 FEET, BUT IN NO CASE SHOULD IT BE GREATER THAN 6 FEET.
12. THE TIME DELAY BETWEEN THE HOT AIR LANCE TREATMENT AND THE APPLICATION OF THE SEALANT SHOULD BE LESS THAN TWO MINUTES, BUT IN NO CASE GREATER THAN FIVE MINUTES.
13. THE ACCEPTABLE SEALANT THICKNESS SHALL BE IN THE RANGE OF + 1/16 in ABOVE SURFACE TO - 1/16 in BELOW SURFACE. THICKNESSES ABOVE THE SURFACE GREATER THAN 1/16 in AND RECESSES GREATER THAN 1/16 in BELOW THE SURFACE SHALL REFER TO SECTION 417 - BITUMINOUS CRACK SEALING, SUBSECTION 417.06 PLACING OF SEALER, OF THE STANDARD SPECIFICATIONS.
14. THE MANUFACTURER'S RECOMMENDATIONS ON CURING OF MATERIAL WILL BE SUPPLIED IN ADVANCE OF ACTIVITIES. THE CURE TIMES MAY BE SHORTENED OR EXTENDED TO MEET CONDITION IN THE FIELD AS DIRECTED BY THE ENGINEER.
15. ANY MATERIAL HEATED ABOVE THE MANUFACTURERS RECOMMENDED MAXIMUM WILL NOT BE USED ON PROJECT.
16. ALL CRACKS AT THE ST. ALBANS - HIGHGATE, SPRINGFIELD - WINDSOR, NORWICH - BRADFORD, AND LYNDON - BARTON SITES SHALL NOT BE ROUTED. WORK AT THESE LOCATIONS SHALL BE DONE IN ACCORDANCE WITH SECTION 417 FOR BITUMINOUS CRACK SEALING, "BLOW AND GO" METHOD AND SHALL BE HOT AIR LANCED.

NOT TO SCALE

|                                  |                              |                              |
|----------------------------------|------------------------------|------------------------------|
| <b>CRACK SEALING<br/>TYPICAL</b> | PROJECT NAME: STATEWIDE      |                              |
|                                  | PROJECT NUMBER: STP CRAK(27) |                              |
|                                  | FILE NAME: p08ki48.dgn       | PLOT DATE: 05-SEP-2012 17:00 |
| PROJECT LEADER: DOMEY            | DRAWN BY: LOCKE              |                              |
| DESIGNED BY: LOCKE               | CHECKED BY: PAVT MGMT        |                              |
| p08ki48+yp.i                     | SHEET 2 OF 6                 |                              |



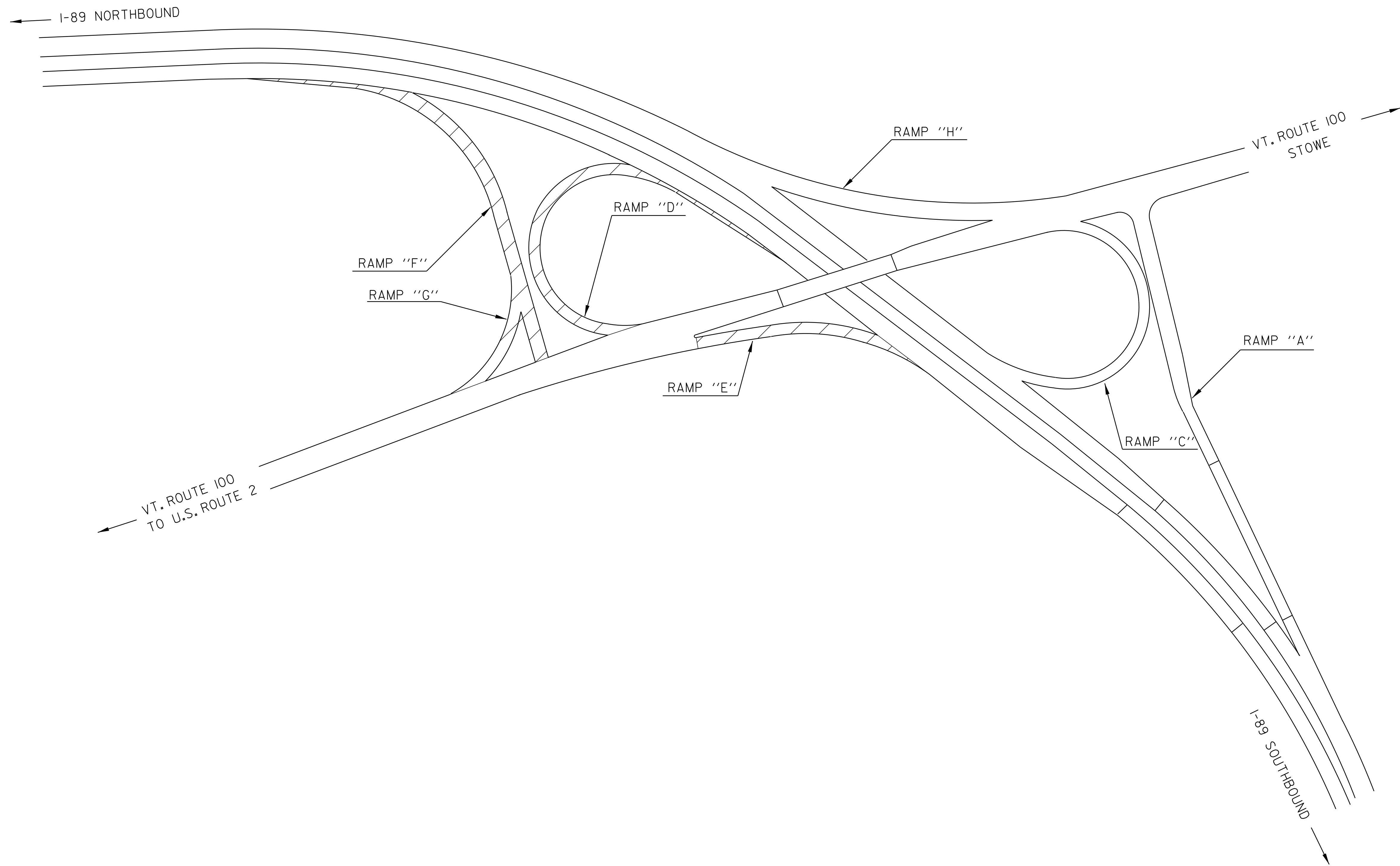


CRACK SEALING TO BE PERFORMED AT THE FOLLOWING LOCATIONS.  
 LOCATION MAY BE ADJUSTED BY THE RESIDENT ENGINEER TO  
 ACCOUNT FOR FIELD CONDITIONS.

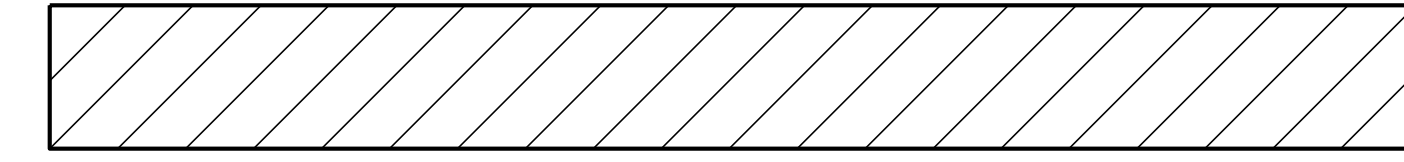
| ROAD          | TOWN BEGINNING | MM BEGINNING | TOWN END      | MM ENDING | LENGTH | LANE LENGTH | DISTRICT | ADT    |
|---------------|----------------|--------------|---------------|-----------|--------|-------------|----------|--------|
| 189 (SB)      | WATERBURY      | 63.595       | BOLTON        | 71.570    | 7.975  | 15.950      | 6        | 13,550 |
| 189 (NB)      | BOLTON         | 69.000       | BOLTON        | 71.455    | 2.455  | 5.410       | 6        | 13,100 |
| 189 (NB)      | ST. ALBANS     | 117.850      | HIGHGATE      | 130.254   | 12.404 | 24.808      | 8        | 4,600  |
| 191 (SB)      | SPRINGFIELD    | 46.600       | WINDSOR       | 57.357    | 10.757 | 21.514      | 2        | 7,400  |
| 191 (SB)      | NORWICH        | 76.436       | BRADFORD      | 98.430    | 21.994 | 43.988      | 4, 7     | 4,700  |
| 191 (NB)      | LYNDON         | 137.149      | BARTON        | 156.050   | 18.901 | 37.802      | 7        | 3,100  |
| 191 (SB)      | LYNDON         | 137.190      | BARTON        | 150.700   | 13.510 | 27.020      | 7        | 3,100  |
| * US 2        | MARSHFIELD     | 0.372        | CABOT         | 0.076     | 7.909  | 16.318      | 6        | 4,900  |
| ** US 2       | DANVILLE       | 3.100        | DANVILLE      | 4.050     | 0.950  | 2.200       | 7        | 6,700  |
| *** US 2      | DANVILLE       | 4.761        | ST. JOHNSBURY | 2.690     | 8.863  | 22.340      | 7        | 7,500  |
| US 7          | MILTON         | 0.094        | GEORGIA       | 0.899     | 8.635  | 17.270      | 8        | 9,020  |
| VT 17         | FAYSTON        | 4.492        | WAITSFIELD    | 0.057     | 1.389  | 2.778       | 6        | 4,200  |
| VT 100        | WILMINGTON     | 7.299        | WARDSBORO     | 0.065     | 7.009  | 14.018      | 1        | 4,850  |
| VT 100        | WAITSFIELD     | 4.145        | MORETOWN      | 0.472     | 3.907  | 7.814       | 6        | 6,300  |
| VT 100        | MORETOWN       | 0.472        | MORETOWN      | 1.231     | 6.981  | 13.962      | 6        | 5,600  |
| VT III        | MORGAN         | 0.962        | MORGAN        | 6.200     | 5.238  | 10.476      | 9        | 1,160  |
| VT III        | MORGAN         | 6.200        | BRIGHTON      | 0.137     | 5.024  | 10.048      | 9        | 830    |
| TOTAL (MILES) |                |              |               |           |        | 143.901     | 293.716  |        |

- \* INCLUDES CLIMBING LANE
- \*\* INCLUDES CLIMBING LANE
- \*\*\* INCLUDES DIVIDED HIGHWAY, 4 LANE & CLIMBING LANES

|  |                              |                              |
|--|------------------------------|------------------------------|
| <b>CRACK SEALING<br/>LOCATION<br/>DETAIL</b> | PROJECT NAME: STATEWIDE      | PLOT DATE: 05-SEP-2012 17:00 |
|  | PROJECT NUMBER: STP CRAK(27) | DRAWN BY: LOCKE              |
|  | FILE NAME: p08k148.dgn       | CHECKED BY: PAVT MGMT        |
|  | DESIGNED BY: LOCKE           | SHEET 5 OF 6                 |



RAMPS REQUIRING CRACK SEALING



**WATERBURY INTERCHANGE # 10**  
**I-89**

NOT TO SCALE

|                                     |                              |                              |
|-------------------------------------|------------------------------|------------------------------|
| <b>WATERBURY INTERCHANGE DETAIL</b> | PROJECT NAME: STATEWIDE      | PLOT DATE: 05-SEP-2012 17:00 |
|                                     | PROJECT NUMBER: STP CRAK(27) | DRAWN BY: LOCKE              |
|                                     | FILE NAME: p08ki48.dgn       | CHECKED BY: PAVT MGMT        |
|                                     | DESIGNED BY: LOCKE           | SHEET 6 OF 6                 |
|                                     | p08ki48int1.i                |                              |