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HIGHWAY SAFETY AND DESIGN SHEETS

HSD - 213.02 - MILLED RUMBLE STRIPS (CENTERLINE) - 9/28/2017

STATE OF VERMONT AGENCY OF TRANSPORTATION



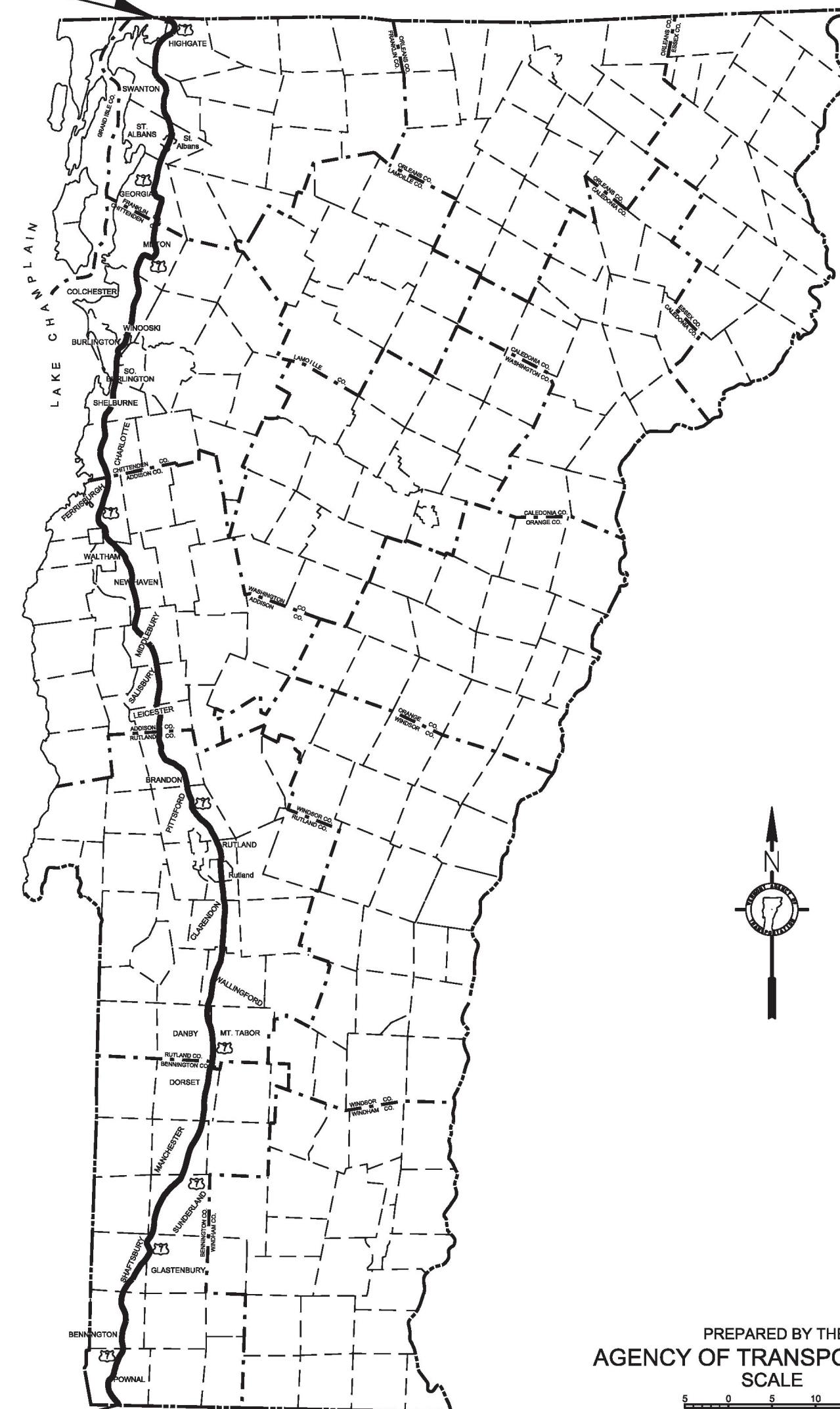
PROPOSED IMPROVEMENT STATEWIDE COUNTIES OF BENNINGTON, RUTLAND, ADDISON CHITTENDEN, AND FRANKLIN US ROUTE 7

PROJECT LOCATION: BEGINNING IN THE TOWN OF POWNAL ON U.S. ROUTE 7 AT MM 0.000 AND EXTENDING NORTHERLY 176.328 MILES TO MM 6.209 IN THE TOWN OF HIGHGATE.

| RUMBLE STRIP LENGTHS BY TOWN: | | | | |
|-------------------------------|---------------|-------------|---------------|--------------|
| POWNAL | 3010 | FEET | 0.570 | MILES |
| BENNINGTON | 1262 | FEET | 0.239 | MILES |
| SHAFTSBURY | 28317 | FEET | 5.363 | MILES |
| GLASTENBURY | 9414 | FEET | 1.783 | MILES |
| SUNDERLAND | 34114 | FEET | 6.461 | MILES |
| MANCHESTER | 36749 | FEET | 6.960 | MILES |
| DORSET | 28118 | FEET | 5.325 | MILES |
| MOUNT TABOR | 20904 | FEET | 3.959 | MILES |
| DANBY | 10354 | FEET | 1.961 | MILES |
| WALLINGFORD | 13775 | FEET | 2.609 | MILES |
| BRANDON | 5512 | FEET | 1.044 | MILES |
| CHARLOTTE | 28673 | FEET | 5.430 | MILES |
| SHELBURNE | 2703 | FEET | 0.512 | MILES |
| COLCHESTER | 12530 | FEET | 4.190 | MILES |
| MILTON | 7434 | FEET | 2.373 | MILES |
| GEORGIA | 1072 | FEET | 0.203 | MILES |
| ST. ALBANS TOWN | 1320 | FEET | 0.250 | MILES |
| SWANTON | 1077 | FEET | 0.204 | MILES |
| HIGHGATE | 4367 | FEET | 0.827 | MILES |
| | 250700 | FEET | 47.481 | MILES |

PROJECT DESCRIPTION: THE PROJECT SHALL CONSIST OF THE INSTALLATION OF NEW 12" CENTERLINE RUMBLE STRIPS AND PAVEMENT MARKINGS.

END HES RMBL(4)
HIGHGATE (MM 6.209)



BEGIN HES RMBL(4)
POWNAL (MM 0.000)

Record Plans
Contractor: L & D SAFETY MARKING CORPORATION
Resident Engineer: CHRIS LAVALETTE
Construction Began: SEPTEMBER 6, 2018
Construction Complete: AUGUST 1, 2019
Record Plans By: CHRIS LAVALETTE & JESSE IVES

I hereby certify that all construction required by this set of drawings has been accomplished as indicated herein.

E-SIGNED by Chris Lavalette
on 2020-02-27 19:42:52 GMT Resident Engineer

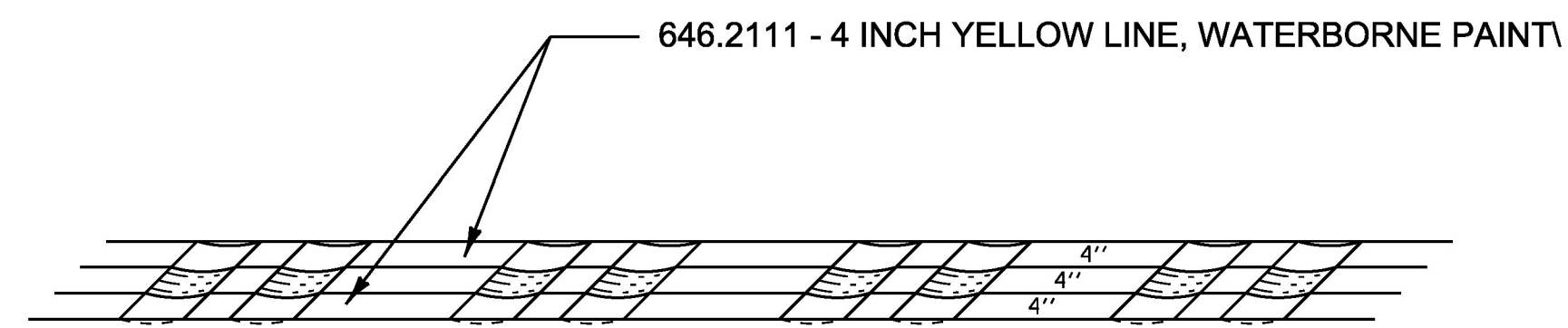
Date: February 27, 2020

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.

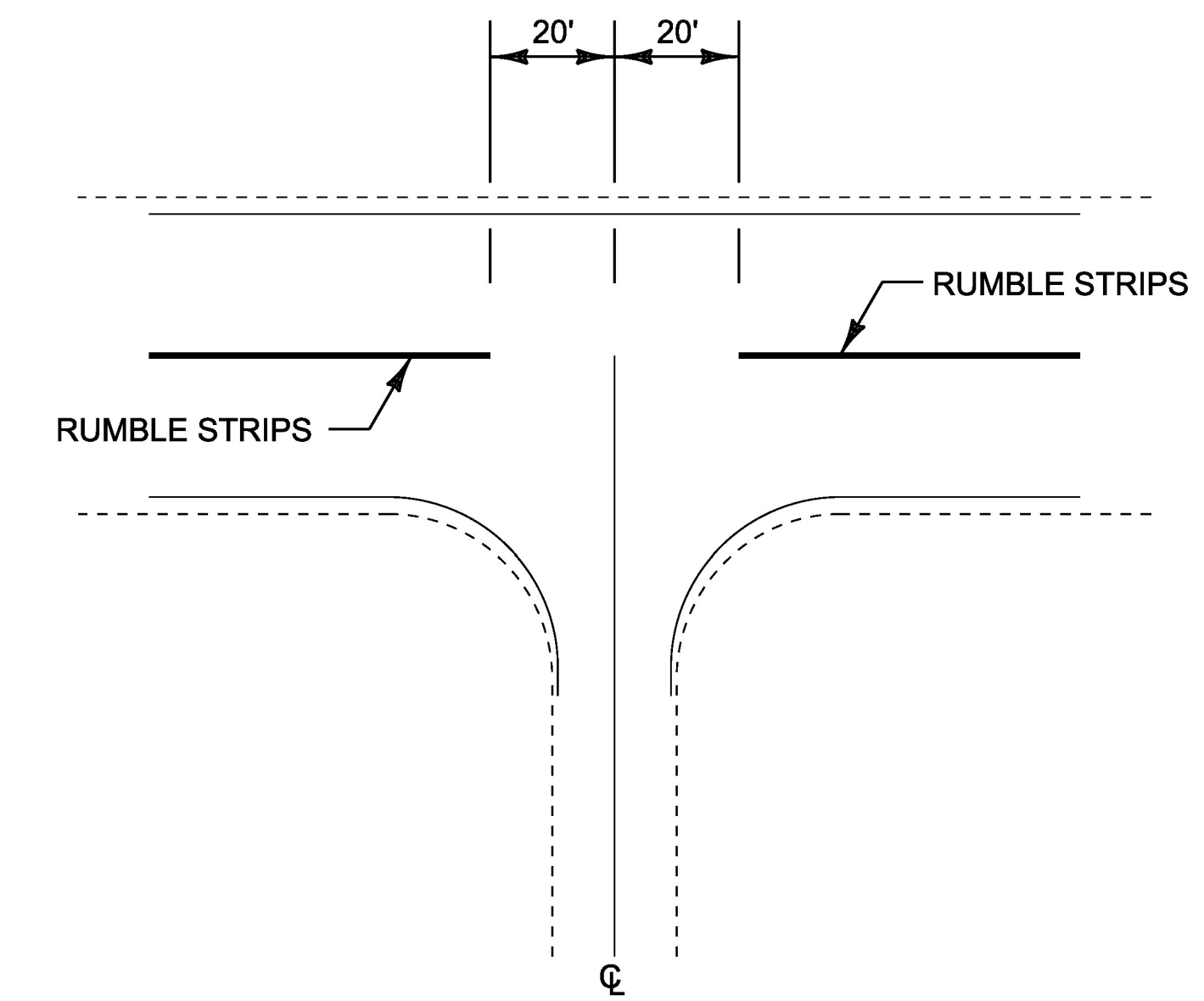
CONSTRUCTION IS TO BE CARRIED ON IN ACCORDANCE WITH THESE PLANS AND THE STANDARD SPECIFICATION FOR CONSTRUCTION DATES 2011, AS APPROVED BY THE FEDERAL HIGHWAY ADMINISTRATION ON JULY 20, 2011 FOR USE ON THIS PROJECT, INCLUDING ALL SUBSEQUENT REVISIONS AND SUCH REVISED SPECIFICATION AND SPECIAL PROVISIONS AS ARE INCORPORATED IN THESE PLANS.

| | |
|------------------------------------|-----|
| QUALITY ASSURANCE PROGRAM: LEVEL 1 | |
| SURVEYED BY: | N/A |
| SURVEYED DATE: | N/A |
| DATUM | |
| VERTICAL | N/A |
| HORIZONTAL | N/A |

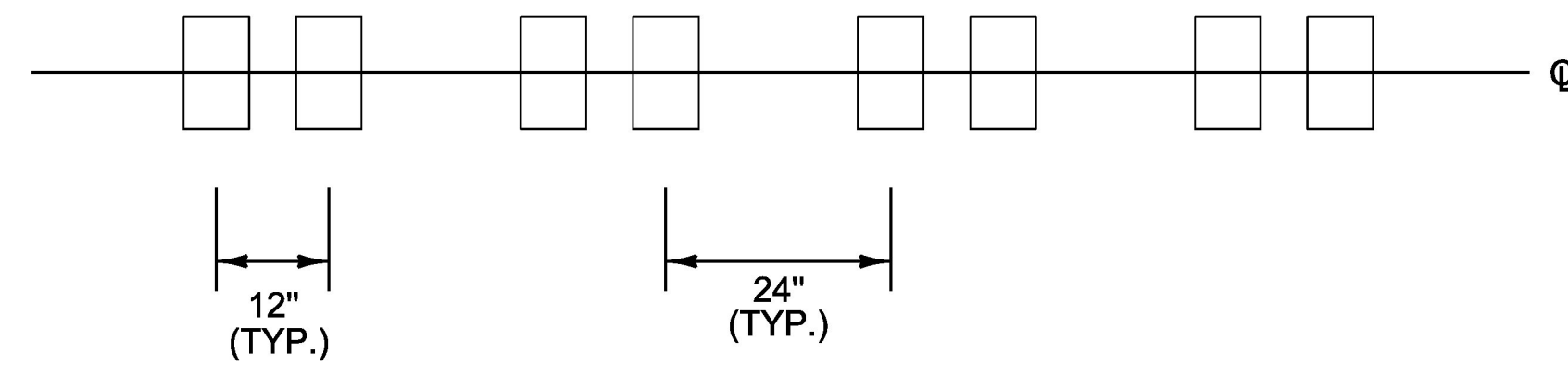
| | |
|------------------------------|--|
| DIRECTOR OF PROJECT DELIVERY | |
| APPROVED | <u>Kenneth A. Robie</u> DATE <u>Jun 25, 2018</u> |
| PROJECT MANAGER: | MATTHEW BOGACZYK |
| PROJECT NAME: | STATEWIDE |
| PROJECT NUMBER: | HES RMBL(4) |
| SHEET 1 OF 5 SHEETS | |



PAVEMENT MARKINGS DETAIL



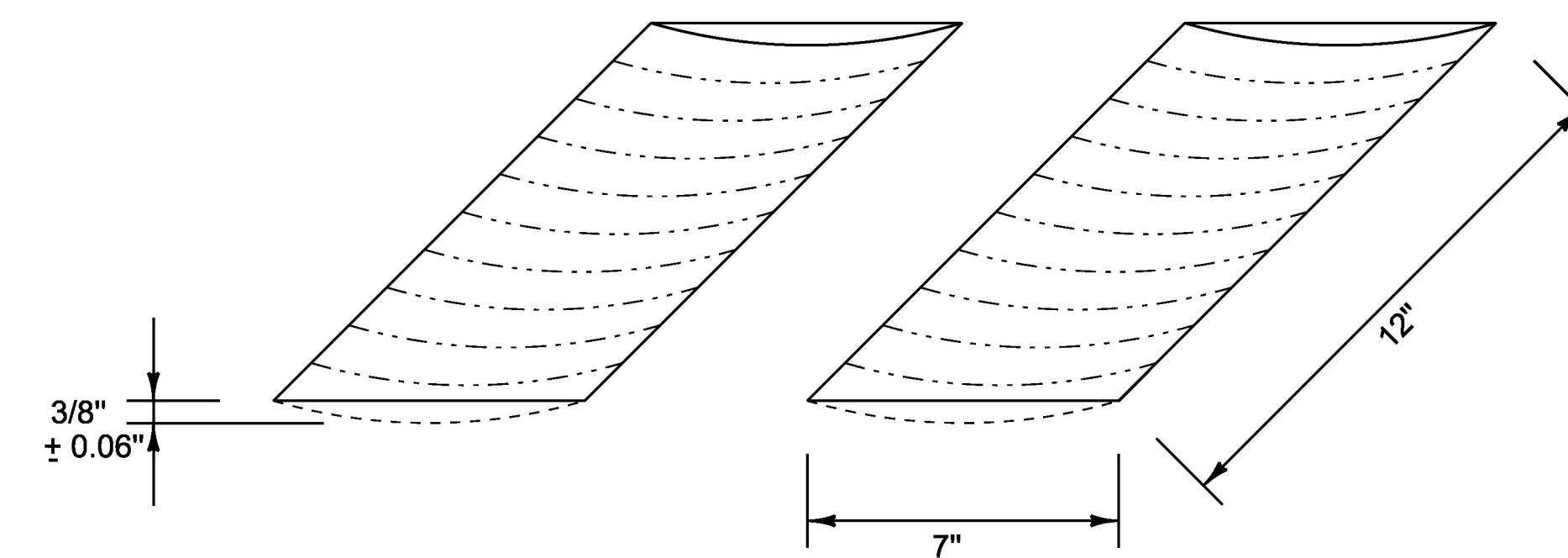
INTERSECTION DETAIL



RUMBLE STRIP LAYOUT

NOTES:

1. CENTERLINE RUMBLE STRIPS NOT TO EXTEND BEYOND CENTERLINE WHEN CENTERLINE IS A DOUBLE YELLOW LINE, WITH OR WITHOUT A PASSING ZONE.
2. CENTERLINE RUMBLE STRIP TO BE PLACED ALONG CENTERLINE OF ROADWAY.
3. CENTERLINE RUMBLE STRIP TO STOP 20 FEET PRIOR TO THE CENTERLINE OF AN INTERSECTION.
4. PRIOR TO APPLICATION OF FINAL PAVEMENT MARKINGS, TWO APPLICATIONS OF SPECIAL PROVISION (FOG SEAL SURFACE TREATMENT) SHALL BE APPLIED TO THE COMPLETED CENTERLINE RUMBLE STRIP AT THE RATE OF 0.15 GAL/SY (+/- 0.05 GAL/SY), OR AS DIRECTED BY THE ENGINEER.
5. TRAFFIC SHALL BE KEPT OFF CENTERLINE FOR A MINIMUM OF TWO HOURS UNTIL CURING IS COMPLETE AND UNTIL FOG SEAL SURFACE TREATMENT WILL NOT "PICK-UP" UNDER TRAFFIC, OR AS DIRECTED BY THE ENGINEER.
6. THE WIDTH OF PLACEMENT FOR SPECIAL PROVISION (FOG SEAL SURFACE TREATMENT) SHALL NOT EXCEED THE WIDTH OF MILLED RUMBLE STRIPS BY MORE THAN 1" ON EITHER SIDE OF CENTERLINE.
7. REFER TO HSDEI 17-101, GUIDELINES FOR MILLED RUMBLE STRIPS, FOR GUIDANCE ON FIELD DETERMINATION OF RUMBLE STRIP PLACEMENT.
8. THE CONTRACTOR SHOULD TEST MILLING EQUIPMENT PRIOR TO PLACING RUMBLE STRIPS, TO CONFIRM THE MILLING PATTERN IS TO THE ENGINEER'S SATISFACTION.



RUMBLE STRIP DETAIL

| | |
|-----------------------------|------------------------|
| PROJECT NAME: | STATEWIDE |
| PROJECT NUMBER: | HES RMBL(4) |
| FILE NAME: 17+090.dgn | PLOT DATE: 25-JUN-2018 |
| PROJECT LEADER: M. BOGACZYK | DRAWN BY: B. GROSE |
| DESIGNED BY: B. GROSE | CHECKED BY: M. LACROIX |
| DETAIL SHEET | SHEET 2 OF 5 |

QUANTITY SHEET 1

| SUMMARY OF ESTIMATED QUANTITIES | | | | | | | | | | TOTALS | | | DESCRIPTIONS | | | | DETAILED SUMMARY OF QUANTITIES | | |
|---------------------------------|--|--|--|--|--|--|--|--|--|---------|-------------|-------|--------------|--|-------------|-------|--------------------------------|------|-------|
| | | | | | | | | | | ROADWAY | GRAND TOTAL | FINAL | UNIT | ITEMS | ITEM NUMBER | ROUND | QUANTITIES | UNIT | ITEMS |
| | | | | | | | | | | 240000 | 240000 | | LF | MILLED RUMBLE STRIPS (CENTERLINE) | 213.10 | 1300 | | | |
| | | | | | | | | | | 1 | 1 | | LU | PRICE ADJUSTMENT, ASPHALT CEMENT (N.A.B.I.) | 406.50 | -- | | | |
| | | | | | | | | | | 400 | 400 | | HR | UNIFORMED TRAFFIC OFFICERS | 630.10 | EST. | | | |
| | | | | | | | | | | 800 | 800 | | HR | FLAGGERS | 630.15 | EST. | | | |
| | | | | | | | | | | 1 | 1 | | LS | MOBILIZATION/DEMOBILIZATION | 635.11 | -- | | | |
| | | | | | | | | | | 1 | 1 | | LS | TRAFFIC CONTROL | 641.10 | -- | | | |
| | | | | | | | | | | 1675000 | 1675000 | | LF | 4 INCH WHITE LINE, WATERBORNE PAINT | 646.201 | 3550 | | | |
| | | | | | | | | | | 2110000 | 2110000 | | LF | 4 INCH YELLOW LINE, WATERBORNE PAINT | 646.2111 | 6089 | | | |
| | | | | | | | | | | 153000 | 153000 | | LF | 6 INCH WHITE LINE, WATERBORNE PAINT | 646.2141 | 1497 | | | |
| | | | | | | | | | | 110000 | 110000 | | LF | 6 INCH YELLOW LINE, WATERBORNE PAINT | 646.2151 | 2077 | | | |
| | | | | | | | | | | 408000 | 408000 | | EACH | LINE STRIPING TARGETS | 646.76 | 3200 | | | |
| | | | | | | | | | | 700 | 700 | | CWT | SPECIAL PROVISION (FOG SEAL SURFACE TREATMENT) | 900.683 | 40 | | | |

| | |
|-----------------------------|-------------------------|
| PROJECT NAME: | STATEWIDE |
| PROJECT NUMBER: | HES RMBL(4) |
| FILE NAME: I7+090.dgn | PLOT DATE: 25-JUN-2018 |
| PROJECT LEADER: M. BOGACZYK | DRAWN BY: P. FLAHERTY |
| DESIGNED BY: P. FLAHERTY | CHECKED BY: M. BOGACZYK |
| QUANTITY SHEET | SHEET 3 OF 5 |

| RUMBLE STRIP LOCATIONS | | | | | | |
|------------------------|-------------|----------|--------|---------|-------------|--|
| COUNTY | TOWN | MM BEGIN | MM END | MILEAGE | LINEAR FEET | |
| BENNINGTON | POWNAI | 6.616 | 6.677 | 0.061 | 322 | |
| | | 6.784 | 6.831 | 0.047 | 248 | |
| | | 6.975 | 7.034 | 0.059 | 312 | |
| | | 7.144 | 7.169 | 0.025 | 132 | |
| | | 7.231 | 7.289 | 0.058 | 306 | |
| | | 7.313 | 7.633 | 0.320 | 1690 | |
| | BENNINGTON | 7.290 | 7.529 | 0.239 | 1262 | |
| | SHAFTSBURY | 0.000 | 4.775 | 4.775 | 25212 | |
| | GLASTENBURY | 4.778 | 5.364 | 0.588 | 3105 | |
| | | 0.000 | 0.879 | 0.879 | 4641 | |
| | SUNDERLAND | 0.880 | 1.784 | 0.904 | 4773 | |
| | | 0.000 | 1.170 | 1.170 | 6178 | |
| | MANCHESTER | 1.888 | 7.179 | 5.291 | 27936 | |
| | | 0.000 | 4.410 | 4.410 | 23285 | |
| | DORSET | 4.970 | 7.520 | 2.550 | 13464 | |
| | | 0.000 | 1.530 | 1.530 | 8078 | |
| | | 2.280 | 2.993 | 0.713 | 3765 | |
| | | 3.077 | 3.227 | 0.150 | 792 | |
| | | 3.426 | 5.142 | 1.716 | 9060 | |
| | | 5.502 | 6.718 | 1.216 | 6420 | |
| | TOTAL | | 26.701 | 140981 | | |

| RUMBLE STRIP LOCATIONS, CONT. | | | | | |
|-------------------------------|-----------------|----------|--------|---------|-------------|
| COUNTY | TOWN | MM BEGIN | MM END | MILEAGE | LINEAR FEET |
| FRANKLIN | GEORGIA | 0.000 | 0.200 | 0.200 | 1056 |
| | | 7.545 | 7.548 | 0.003 | 16 |
| | ST. ALBANS TOWN | 0.000 | 0.250 | 0.250 | 1320 |
| | SWANTON | 0.000 | 0.204 | 0.204 | 1077 |
| | HIGHGATE | 4.511 | 4.693 | 0.182 | 961 |
| TOTAL | | 5.564 | 6.209 | 0.645 | 3406 |
| TOTAL | | | 1.484 | 7836 | |

| INTERSECTION GAP LOCATIONS | | | | |
|----------------------------|-----------------|---------------|------------------|-------------------------------|
| COUNTY | TOWN | LOCATION (MM) | TOWN HIGHWAY NO. | REMARKS |
| BENNINGTON | DORSET | 3.691 | TH-17 | BOWEN HILL RD |
| RUTLAND | MOUNT TABOR | 0.720 | TH-18 | TROLL HILL RD |
| | | 0.833 | TH-2/TH-9 | SOUTH END RD / SOUTH END EXIT |
| | | 1.275 | TH-10 | TROLL HILL RD |
| | | 1.338 | TH-8 | TROLL HILL RD |
| | DANBY | 1.974 | TH-7 | GRIFFITH HILL RD |
| | | 0.433 | TH-21 | RAYMOND RD |
| | | 1.037 | TH-19 | CASCADE RD |
| | WALLINGFORD | 1.445 | TH-3 | SCOTTSVILLE RD |
| | | 3.662 | TH-59 | HARTSBORO RD |
| | | 6.271 | TH-8 | HAVEN HILL RD |
| | | 6.289 | TH-7 | NORTH END RD |
| | | 6.323 | VT-7B | CLARENDON AVE |
| | PITTSFORD | 5.016 | TH-2 | KENDALL HILL RD |
| | BRANDON | 2.255 | TH-35 | WOOD LN |
| 2.924 | | TH-43 | NICKERSON RD | |
| CHITTENDEN | CHARLOTTE | 1.248 | TH-46 | E. THOMPSONS POINT RD |
| | | 1.872 | TH-49 | HIGBEE RD |
| | | 3.436 | TH-3 | FERRY RD |
| | | 3.436 | TH-2/TH-3 | CHURCH HILL RD / FERRY RD |
| | | 4.200 | | NURSERY LN |
| | SHELBURNE | 4.905 | TH-2 | CHURCH HILL RD |
| | | 5.935 | TH-12 | LIME KILN RD |
| | | 0.416 | TH-85 | ROGFIELD RD |
| | COLCHESTER | 0.583 | | S. PARK RD |
| | | 5.566 | TH-10 | COON HILL RD |
| MILTON | 6.514 | | US-2 | |
| | 6.523 | | US-2 | |
| | 6.901 | TH-191 | BRENTWOOD DR | |
| FRANKLIN | GEORGIA | 0.002 | TH-55 | GONYEAU RD |
| | | 2.486 | TH-4 | OAKLAND STATION RD |
| | | 2.532 | TH-4 | OAKLAND STATION RD |
| | ST. ALBANS TOWN | 3.635 | TH-6 | BALLARD RD |
| | | 3.665 | TH-6 | BALLARD RD |
| | HIGHGATE | 2.801 | TH-13 | JEWETT AVE |
| | | 2.662 | TH-13 | CARTER HILL RD |
| | 5.843 | I-89N | EXIT 22 RAMP | |
| | 5.877 | TH-61 | MYERS RD | |

| SUMMARY/TOTALS | | |
|----------------|--------|--------|
| BENNINGTON | 26.701 | 140981 |
| RUTLAND | 9.573 | 50545 |
| CHITTENDEN | 9.723 | 51337 |
| FRANKLIN | 1.484 | 7836 |
| TOTAL | 47.481 | 250700 |

| COUNTY | TOWN | MM BEGIN | MM END | MILEAGE | LINEAR FEET |
|---------|-------------|----------|--------|---------|-------------|
| RUTLAND | MOUNT TABOR | 0.000 | 2.735 | 2.735 | 14441 |
| | | 3.260 | 4.484 | 1.224 | 6463 |
| | DANBY | 0.000 | 0.025 | 0.025 | 132 |
| | | 0.300 | 1.071 | 0.771 | 4071 |
| | | 1.204 | 2.248 | 1.044 | 5512 |
| | WALLINGFORD | 2.352 | 2.473 | 0.121 | 639 |
| | | 0.000 | 0.017 | 0.017 | 90 |
| | | 0.176 | 0.970 | 0.794 | 4192 |
| | | 1.600 | 2.246 | 0.646 | 3411 |
| | | 2.813 | 3.187 | 0.374 | 1975 |
| | | 3.424 | 3.947 | 0.523 | 2761 |
| | | 6.265 | 6.520 | 0.255 | 1346 |
| | BRANDON | 1.343 | 1.485 | 0.142 | 750 |
| | | 1.623 | 1.898 | 0.275 | 1452 |
| | | 2.132 | 2.361 | 0.229 | 1209 |
| | | 2.461 | 2.576 | 0.115 | 607 |
| | | 2.643 | 2.926 | 0.283 | 1494 |
| | TOTAL | | 9.573 | 50545 | |

| COUNTY | TOWN | MM BEGIN | MM END | MILEAGE | LINEAR FEET | |
|------------|------------|----------|--------|---------|-------------|--|
| CHITTENDEN | CHARLOTTE | 0.050 | 0.249 | 0.199 | 1051 | |
| | | 0.300 | 0.481 | 0.181 | 956 | |
| | | 1.047 | 2.017 | 0.970 | 5122 | |
| | | 2.064 | 3.059 | 0.995 | 5254 | |
| | | 3.103 | 5.056 | 1.953 | 10312 | |
| | | 5.281 | 5.487 | 0.206 | 1088 | |
| | | 5.531 | 5.977 | 0.446 | 2355 | |
| | | 6.022 | 6.342 | 0.320 | 1690 | |
| | SHELBURNE | 6.890 | 6.550 | 0.160 | 845 | |
| | | 0.000 | 0.512 | 0.512 | 2703 | |
| | | 3.919 | 4.144 | 0.225 | 1188 | |
| | COLCHESTER | 4.282 | 4.427 | 0.145 | 766 | |
| | | 4.494 | 4.909 | 0.415 | 2191 | |
| | | 4.989 | 5.703 | 0.714 | 3770 | |
| | | 6.086 | 6.960 | 0.874 | 4615 | |
| | MILTON | 6.320 | 7.678 | 1.358 | 7170 | |
| | | 7.780 | 7.830 | 0.050 | 264 | |
| | TOTAL | | 9.723 | 51337 | | |

SEE SHEETS 4A & 4B

| | |
|------------------------------------|-------------------------|
| PROJECT NAME: | STATEWIDE |
| PROJECT NUMBER: | HES RMBL(4) |
| FILE NAME: i7+090.dgn | PLOT DATE: 25-JUN-2018 |
| PROJECT LEADER: M. BOGACZYK | DRAWN BY: P. FLAHERTY |
| DESIGNED BY: P. FLAHERTY | CHECKED BY: M. BOGACZYK |
| CLRS LOCATIONS & INTERSECTION GAPS | SHEET 4 OF 5 |

213.10 Milled Rumble Strips (Centerline)

Line Item Number: 0005
 Contract Quantity: 240,000 LF

Route 7 North - South

| County | Town | MM Start | MM End | Total Miles | Total LF | Date Completed |
|------------|-----------------|----------|--------|-------------|----------|----------------|
| Franklin | Highgate | 6.197 | 5.3 | 0.897 | 4736.16 | 9/19/2018 |
| Franklin | Highgate | 4.4 | 3.081 | 1.319 | 6964.32 | 9/19/2018 |
| Franklin | Swanton | 0.204 | 0 | 0.204 | 1077.12 | 9/19/2018 |
| Franklin | St. Albans Town | 0.25 | 0 | 0.250 | 1320.00 | 9/19/2018 |
| Franklin | Georgia | 7.548 | 7.545 | 0.003 | 15.84 | 9/19/2018 |
| Franklin | Georgia | 0.2 | 0 | 0.200 | 1056.00 | 9/19/2018 |
| Chittenden | Milton | 7.83 | 7.78 | 0.050 | 264.00 | 9/19/2018 |
| Chittenden | Milton | 7.678 | 7.1 | 0.578 | 3051.84 | 9/19/2018 |
| Chittenden | Milton | 7 | 6.32 | 0.680 | 3590.40 | 9/19/2018 |
| Chittenden | Milton | 0.4 | 0 | 0.400 | 2112.00 | 9/19/2018 |
| Chittenden | Colchester | 6.96 | 6.086 | 0.874 | 4614.72 | 9/20/2018 |
| Chittenden | Colchester | 5.703 | 5.4 | 0.303 | 1599.84 | 9/20/2018 |
| Chittenden | Colchester | 5.3 | 4.989 | 0.311 | 1642.08 | 9/20/2018 |
| Chittenden | Colchester | 4.909 | 4.494 | 0.415 | 2191.20 | 9/20/2018 |
| Chittenden | Colchester | 4.427 | 4.282 | 0.145 | 765.60 | 9/20/2018 |
| Chittenden | Colchester | 4.144 | 3.919 | 0.225 | 1188.00 | 9/20/2018 |
| Chittenden | Shelburne | 0.512 | 0 | 0.512 | 2703.36 | 9/20/2018 |
| Chittenden | Charlotte | 6.55 | 6.39 | 0.160 | 844.80 | 9/20/2018 |
| Chittenden | Charlotte | 6.342 | 6.022 | 0.320 | 1689.60 | 9/20/2018 |
| Chittenden | Charlotte | 5.977 | 5.531 | 0.446 | 2354.88 | 9/20/2018 |
| Chittenden | Charlotte | 5.487 | 5.281 | 0.206 | 1087.68 | 9/20/2018 |
| Chittenden | Charlotte | 5.056 | 3.436 | 1.620 | 8553.60 | 9/20/2018 |
| Chittenden | Charlotte | 3.436 | 3.103 | 0.333 | 1758.24 | 9/21/2018 |
| Chittenden | Charlotte | 3.059 | 2.064 | 0.995 | 5253.60 | 9/21/2018 |
| Chittenden | Charlotte | 2.017 | 1.047 | 0.970 | 5121.60 | 9/21/2018 |
| Chittenden | Charlotte | 0.481 | 0.3 | 0.181 | 955.68 | 9/21/2018 |
| Chittenden | Charlotte | 0.249 | 0.05 | 0.199 | 1050.72 | 9/21/2018 |
| Rutland | Brandon | 3.315 | 3.126 | 0.189 | 997.92 | 9/21/2018 |
| Rutland | Brandon | 2.978 | 2.65 | 0.328 | 1731.84 | 9/21/2018 |
| Rutland | Brandon | 2.24 | 1.658 | 0.582 | 3072.96 | 9/21/2018 |
| Rutland | Brandon | 1.057 | 0.633 | 0.424 | 2238.72 | 9/21/2018 |
| Rutland | Wallingford | 6.52 | 6.265 | 0.255 | 1346.40 | 9/27/2018 |
| Rutland | Wallingford | 0.017 | 0 | 0.017 | 89.76 | 9/27/2018 |
| Rutland | Danby | 2.473 | 2.352 | 0.121 | 638.88 | 9/27/2018 |
| Rutland | Danby | 2.248 | 1.204 | 1.044 | 5512.32 | 9/27/2018 |
| Rutland | Danby | 1.071 | 0.3 | 0.771 | 4070.88 | 9/27/2018 |
| Rutland | Danby | 0.025 | 0 | 0.025 | 132.00 | 9/27/2018 |
| Rutland | Mount Tabor | 4.484 | 3.26 | 1.224 | 6462.72 | 9/27/2018 |
| Rutland | Mount Tabor | 2.735 | 0 | 2.735 | 14440.80 | 9/27/2018 |
| Bennington | Dorset | 6.718 | 5.502 | 1.216 | 6420.48 | 9/27/2018 |
| Bennington | Dorset | 5.142 | 3.426 | 1.716 | 9060.48 | 9/27/2018 |
| Bennington | Dorset | 3.227 | 3.077 | 0.150 | 792.00 | 9/27/2018 |

Calculated By: HM
 Checked By:

Statewide HES RMBL(4)
 Contract Number: 18080301

213.10 Milled Rumble Strips (Centerline)

| | | | | | | |
|------------|--------|-------|-------|-------|---------|-----------|
| Bennington | Dorset | 2.993 | 2.28 | 0.713 | 3764.64 | 9/27/2018 |
| Bennington | Dorset | 1.53 | 0 | 1.530 | 8078.40 | 9/27/2018 |
| Bennington | Pownal | 7.633 | 7.313 | 0.320 | 1689.60 | 9/27/2018 |
| Bennington | Pownal | 7.289 | 7.231 | 0.058 | 306.24 | 9/27/2018 |
| Bennington | Pownal | 7.169 | 7.144 | 0.025 | 132.00 | 9/27/2018 |
| Bennington | Pownal | 7.034 | 6.975 | 0.059 | 311.52 | 9/27/2018 |
| Bennington | Pownal | 6.831 | 6.784 | 0.047 | 248.16 | 9/27/2018 |
| Bennington | Pownal | 6.677 | 6.616 | 0.061 | 322.08 | 9/27/2018 |

Total = ~~139423.7~~ LF

Removed from centerline Dorset ~ MM 5.502 - 6.127 (3300 LF)

Total = 139423.7 LF - 3300 LF =
136,123.7 LF

Calculated By: HM
Checked By:

Statewide HES RMBL(4)
Contract Number: 18080301

| COUNTY | TOWN | MM BEGIN | MM END | CL MILES | 4" YELLOW (1 ST APP.) | 4" YELLOW (2 ND APP.) | 4" YELLOW (DASHED) | 4" WHITE | 4" WHITE (DASHED) | 6" YELLOW | 6" WHITE | 6" WHITE (DASHED) | REMARKS | |
|--------------|-------------|----------|--------|----------|-------------------------------------|-------------------------------------|-----------------------|-----------|----------------------|--------------|----------|----------------------|---------|-----------------|
| BENNINGTON | POWNAI | 0.000 | 7.988 | 7.988 | 84353.28 | | | 85228.28 | 2591.81 | | | | | |
| | BENNINGTON | | 0.000 | 2.154 | 2.154 | 22746.24 | | | 22746.24 | | | | | |
| | | | 2.154 | 3.796 | 1.642 | 17339.52 | | | | | | | | TOWN HIGHWAY |
| | | | 3.796 | 3.901 | 0.105 | 1108.80 | 2523.84 | | 1108.80 | 224.00 | | | | |
| | | | 3.901 | 7.200 | 3.299 | | | | | | 34837.44 | 36061.44 | 9366.33 | DIVIDED HIGHWAY |
| | | | 7.200 | 7.524 | 0.324 | 3421.44 | | | 3421.44 | 477.67 | | | | |
| | SHAFTSBURY | 0.000 | 4.773 | 4.773 | 50402.88 | 56633.28 | | 50402.88 | 6777.00 | | | | | |
| | GLASTENBURY | 0.000 | 0.879 | 0.879 | 9282.24 | 15755.52 | | 9282.24 | 1601.00 | | | | | |
| | SHAFTSBURY | 4.773 | 5.362 | 0.589 | 6219.84 | | | 6219.84 | 954.33 | | | | | |
| | GLASTENBURY | 0.879 | 1.782 | 0.903 | 9535.68 | | | 9535.68 | 1676.33 | | | | | |
| | SUNDERLAND | 0.000 | 7.178 | 7.178 | 75799.68 | 68228.16 | | 75799.68 | 3655.33 | | | | | |
| | MANCHESTER | 0.000 | 7.518 | 7.518 | 79390.08 | 73497.60 | | 79390.08 | 6655.67 | | | | | |
| DORSET | 0.000 | 6.714 | 6.714 | 70899.84 | 56232.00 | | 71422.84 | 1827.33 | | | | | | |
| COUNTY TOTAL | | | | | 430499.52 | 272870.40 | 0.00 | 414558.00 | 26440.47 | 34837.44 | 36061.44 | 9366.33 | | |

| | | | | | | | | | | | | | | |
|--------------|--------------|-------|-------|-------|-----------|-----------|----------|-----------|----------|----------|----------|----------|-----------------|-----------------|
| RUTLAND | MOUNT TABOR | 0.000 | 4.179 | 4.179 | 44130.24 | 41807.04 | | 44130.24 | | | | | | |
| | DANBY | 0.000 | 2.474 | 2.474 | 26125.44 | 20709.22 | | 26125.44 | | | | | | |
| | WALLINGFORD | | 0.000 | 6.493 | 6.493 | 68566.08 | 27551.04 | | 68566.08 | | | | | |
| | | | 6.493 | 7.092 | 0.599 | | | | | | 6325.44 | 6325.44 | 1471.33 | DIVIDED HIGHWAY |
| | CLARENDON | 0.000 | 5.655 | 5.655 | | | | | | 59716.80 | 64215.80 | 22258.27 | DIVIDED HIGHWAY | |
| | RUTLAND TOWN | | 0.000 | 0.667 | 0.667 | | | | | | 7043.52 | 8742.52 | 3061.51 | DIVIDED HIGHWAY |
| | | | 0.667 | 1.175 | 0.508 | 5364.48 | | 627.33 | 6417.48 | 2010.83 | | | | |
| | RUTLAND CITY | 0.000 | 2.805 | 2.805 | 29620.80 | | 1421.33 | | | | | | TOWN HIGHWAY | |
| | RUTLAND TOWN | 1.175 | 3.956 | 2.781 | 29367.36 | | | 29686.36 | 1718.00 | | | | | |
| | PITTSFORD | 0.000 | 7.587 | 7.587 | 80118.72 | 18670.08 | | 80768.72 | 1155.67 | | | | | |
| BRANDON | | 0.000 | 3.355 | 3.355 | 35428.80 | | | 36389.80 | 80.33 | | | | | |
| | | 3.355 | 4.456 | 1.101 | 11626.56 | 14076.48 | | | | | | | TOWN HIGHWAY | |
| | | 4.456 | 7.423 | 2.967 | 31331.52 | | | 31898.52 | 119.00 | | | | | |
| COUNTY TOTAL | | | | | 361680.00 | 122813.86 | 2048.66 | 323982.64 | 5083.83 | 73085.76 | 79283.76 | 26791.11 | | |

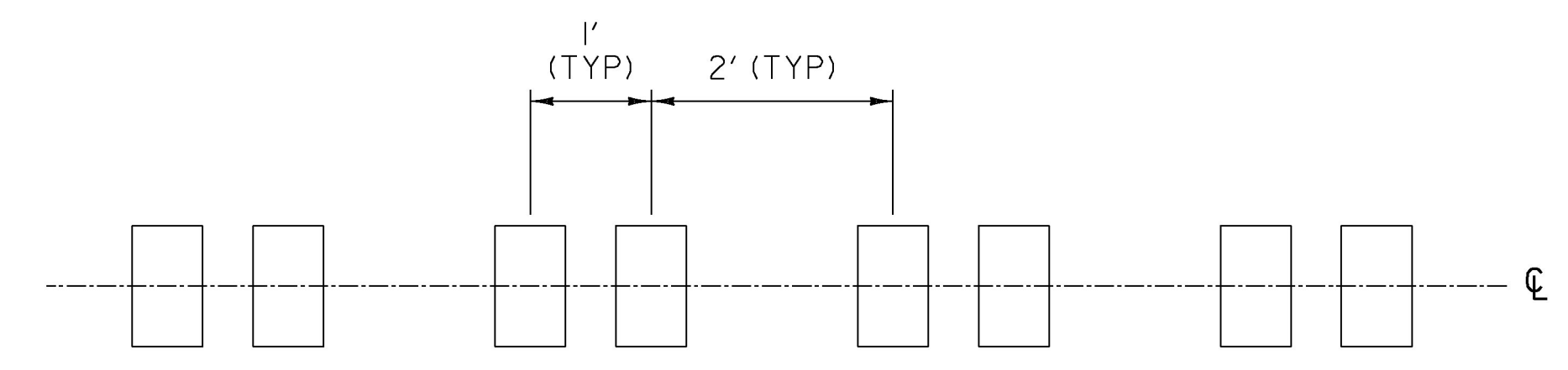
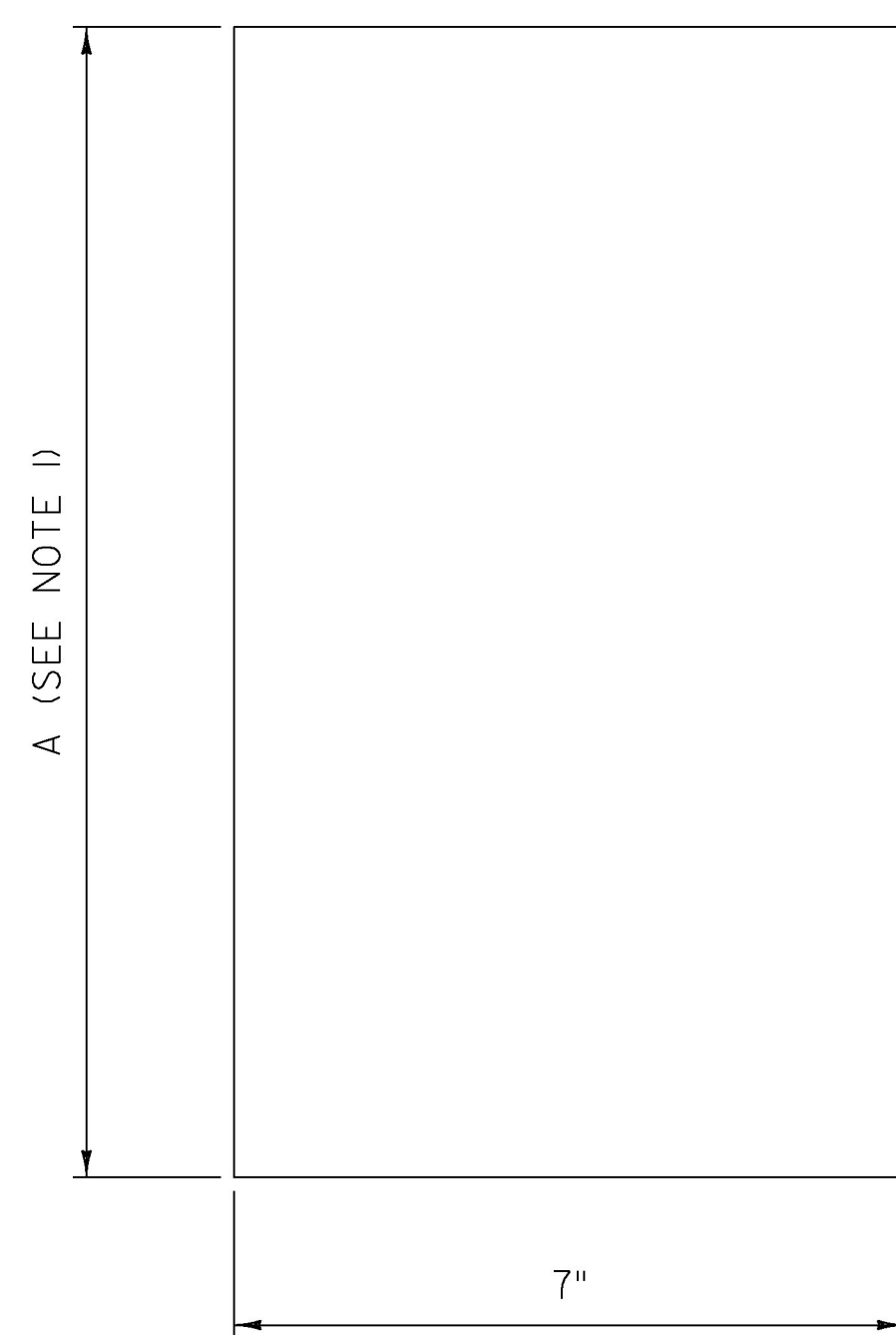
| | | | | | | | | | | | | | | |
|--------------|------------|-------|-------|----------|-----------|----------|----------|-----------|----------|--------|------|------|--|--------------|
| ADDISON | LEICESTER | 0.000 | 3.421 | 3.421 | 36125.76 | | | 36125.76 | | | | | | |
| | SALISBURY | 0.000 | 4.502 | 4.502 | 47541.12 | | | 47541.12 | | | | | | |
| | MIDDLEBURY | | 0.000 | 4.259 | 4.259 | 44975.04 | | 48.00 | 46405.04 | 346.00 | | | | |
| | | | 4.259 | 5.659 | 1.400 | 14784.00 | | | | | | | | TOWN HIGHWAY |
| | | | 5.659 | 7.477 | 1.818 | 19198.08 | | | 19198.08 | | | | | |
| | NEW HAVEN | 0.000 | 7.688 | 7.688 | 81185.28 | | | 81406.28 | 3174.67 | | | | | |
| | WALTHAM | 0.000 | 1.627 | 1.627 | 17181.12 | | | 17181.12 | 408.33 | | | | | |
| FERRSBURGH | 0.000 | 7.284 | 7.284 | 76919.04 | | | 79328.04 | 638.00 | | | | | | |
| COUNTY TOTAL | | | | | 337909.44 | 0.00 | 48.00 | 327185.44 | 4567.00 | 0.00 | 0.00 | 0.00 | | |

| | | | | | | | | | | | | | |
|--------------|-------------------|-------|-------|----------|-----------|-----------|----------|-----------|----------|------|------|------|--------------|
| CHITTENDEN | CHARLOTTE | 0.000 | 6.546 | 6.546 | 69125.76 | 57340.80 | | 69836.76 | 2912.00 | | | | |
| | SHELBURNE | 0.000 | 4.853 | 4.853 | 51247.68 | 10010.88 | 271.33 | 58680.68 | 6877.00 | | | | |
| | SHOUTH BURLINGTON | 0.000 | 1.737 | 1.737 | 18342.72 | | 1096.67 | 23417.72 | 5596.00 | | | | |
| | BURLINGTON | 0.000 | 4.189 | 4.189 | 44235.84 | | | | | | | | TOWN HIGHWAY |
| | WINOOSKI | 0.000 | 1.008 | 1.008 | 10644.48 | | | | | | | | TOWN HIGHWAY |
| | COLCHESTER | 0.000 | 6.957 | 6.957 | 73465.92 | 35122.56 | | 76779.92 | 2739.67 | | | | |
| MILTON | 0.000 | 7.830 | 7.830 | 82684.80 | 22872.96 | | 84936.80 | 448.00 | | | | | |
| COUNTY TOTAL | | | | | 349747.20 | 125347.20 | 1368.00 | 313651.88 | 18572.67 | 0.00 | 0.00 | 0.00 | |

| | | | | | | | | | | | | | | |
|--------------|-----------------|-------|-------|----------|-----------|----------|----------|-----------|----------|---------|------|------|--------------|--------------|
| FRANKLIN | GEORGIA | 0.000 | 7.596 | 7.596 | 80213.76 | 24478.08 | | 81045.76 | 202.33 | | | | | |
| | ST. ALBANS TOWN | 0.000 | 1.129 | 1.129 | 11922.24 | 4836.48 | | 11922.24 | | | | | | |
| | ST. ALBANS CITY | 0.000 | 2.248 | 2.248 | 23738.88 | | | | | | | | TOWN HIGHWAY | |
| | ST. ALBANS TOWN | | 1.129 | 2.896 | 1.767 | 18659.52 | | 187.33 | 22117.52 | 1060.00 | | | | |
| | | | 0.000 | 5.100 | 5.100 | 53856.00 | | | 53856.00 | | | | | |
| | SWANTON | | 5.100 | 6.790 | 1.690 | 17846.40 | 2154.24 | | | | | | | TOWN HIGHWAY |
| | | | 6.790 | 6.945 | 0.155 | 1636.80 | | | 1636.80 | | | | | |
| HIGHGATE | 0.000 | 6.209 | 6.209 | 65567.04 | 40064.64 | | 65567.04 | | | | | | | |
| COUNTY TOTAL | | | | | 273440.64 | 71533.44 | 187.33 | 236145.36 | 1262.33 | 0.00 | 0.00 | 0.00 | | |

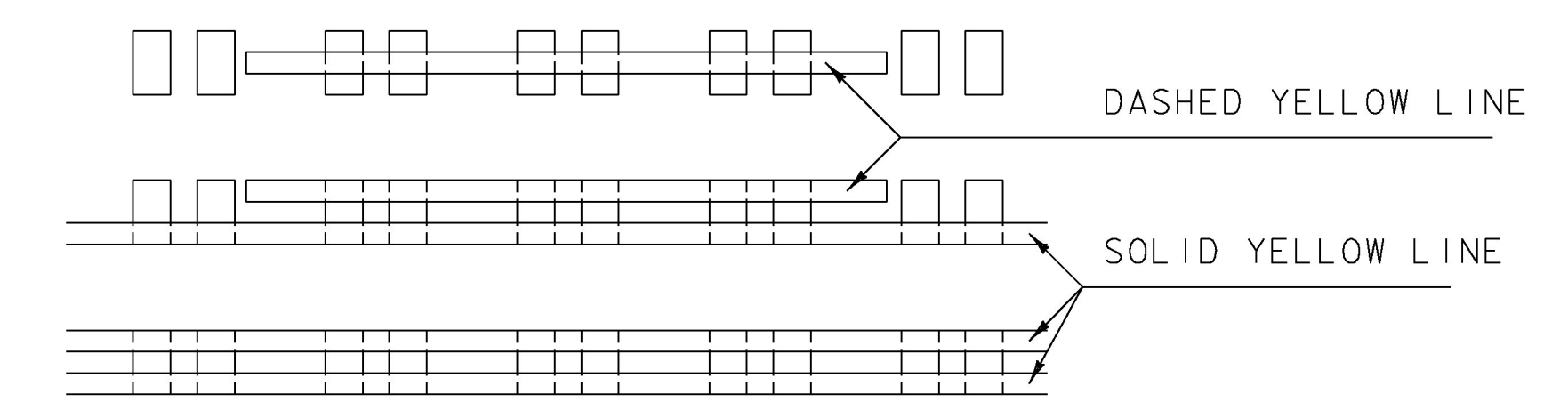
| | 4" YELLOW (1 ST APP.) | 4" YELLOW (2 ND APP.) | 4" YELLOW (DASHED) | 4" WHITE | 4" WHITE (DASHED) | 6" YELLOW | 6" WHITE | 6" WHITE (DASHED) |
|-------|-------------------------------------|-------------------------------------|-----------------------|------------|----------------------|--------------|-----------|----------------------|
| TOTAL | 1753276.80 | 592564.90 | 3651.99 | 1615523.32 | 55926.30 | 107923.20 | 115345.20 | 36157.44 |

| | |
|-------------------------------|-------------------------|
| PROJECT NAME: | STATEWIDE |
| PROJECT NUMBER: | HES RMBL(4) |
| FILE NAME: I7+090.dgn | PLOT DATE: 25-JUN-2018 |
| PROJECT LEADER: M. BOGACZYK | DRAWN BY: P. FLAHERTY |
| DESIGNED BY: P. FLAHERTY | CHECKED BY: M. BOGACZYK |
| LINE STRIPING LOCATIONS SHEET | SHEET 5 OF 5 |



NOTE:

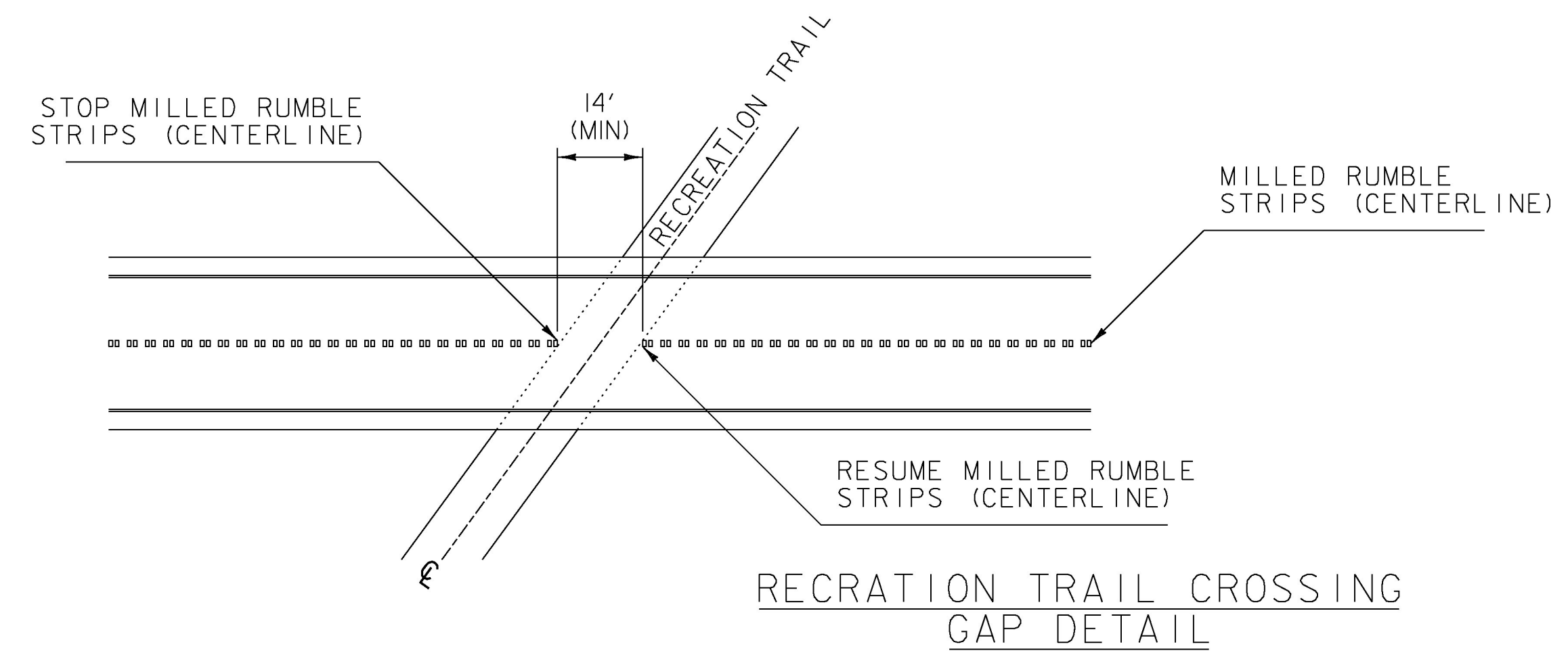
- MILLED RUMBLE STRIPS (CENTERLINE) SHALL BE CENTERED ALONG THE CENTERLINE OF THE ROADWAY WITH A LATERAL TOLERANCE OF +/- TWO INCHES AND INSTALLED AT THE INTERVALS AS DETAILED.



PAVEMENT MARKING LAYOUT DETAIL

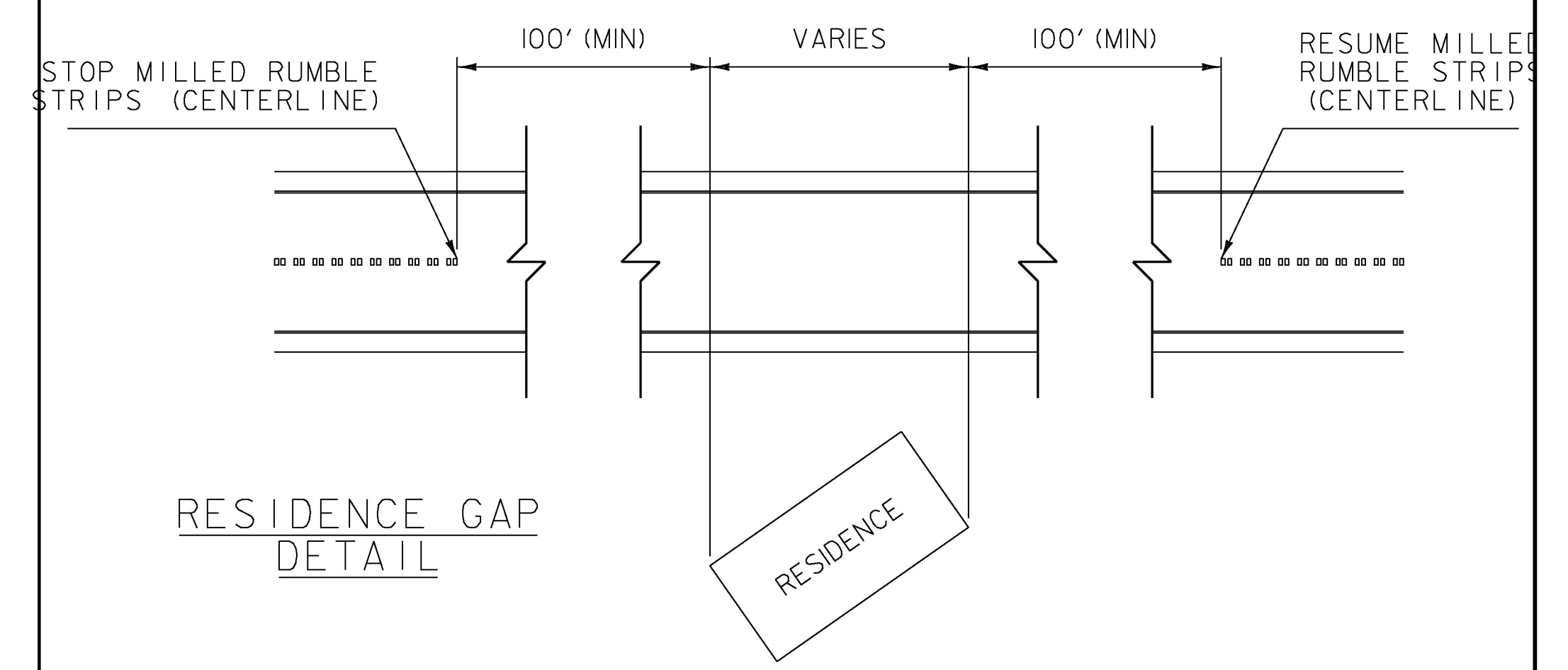
NOTES:

- MILLED RUMBLE STRIPS (CENTERLINE) SHALL BE INSTALLED PRIOR TO FINAL CENTERLINE PAVEMENT MARKINGS.
- ALL FINAL CENTERLINE PAVEMENT MARKINGS SHALL BE CENTERED ON THE MILLED RUMBLE STRIPS (CENTERLINE) WITH A LATERAL TOLERANCE OF +/- ONE INCH.
- UNLESS OTHERWISE SPECIFIED IN THE PLANS, CENTERLINE PAVEMENT MARKINGS SHALL BE POLYUREA.



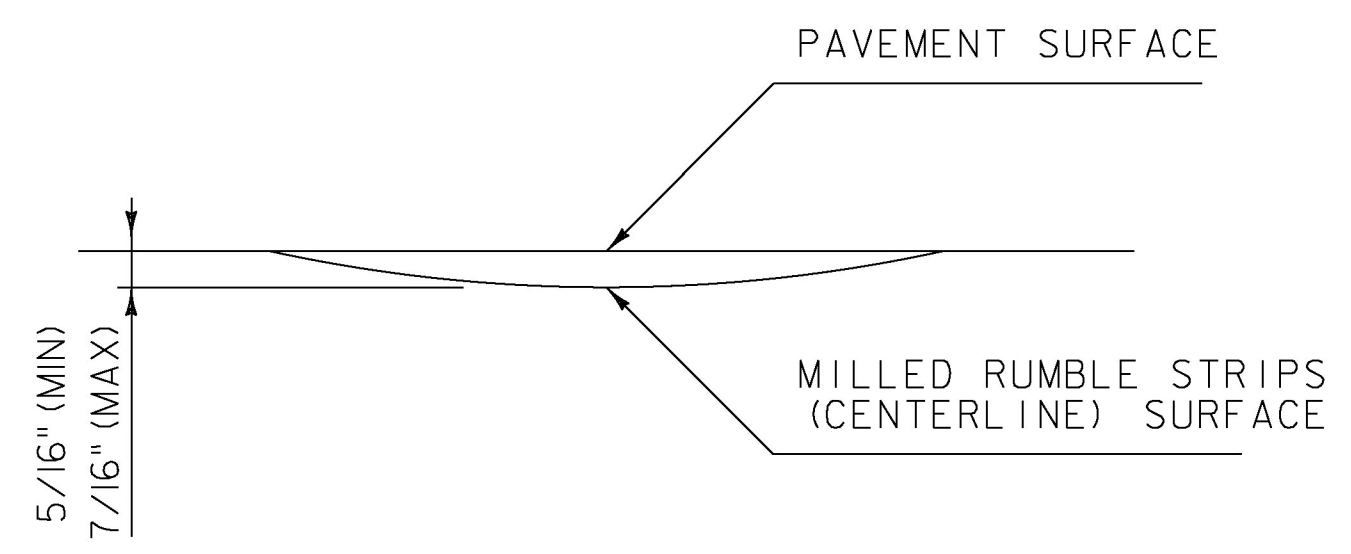
NOTE:

- WIDTH OF GAP FOR RAIL TRAILS WILL VARY DEPENDENT ON THE SKEW OF THE TRAIL, WITH A 14 FOOT MINIMUM GAP.



NOTE:

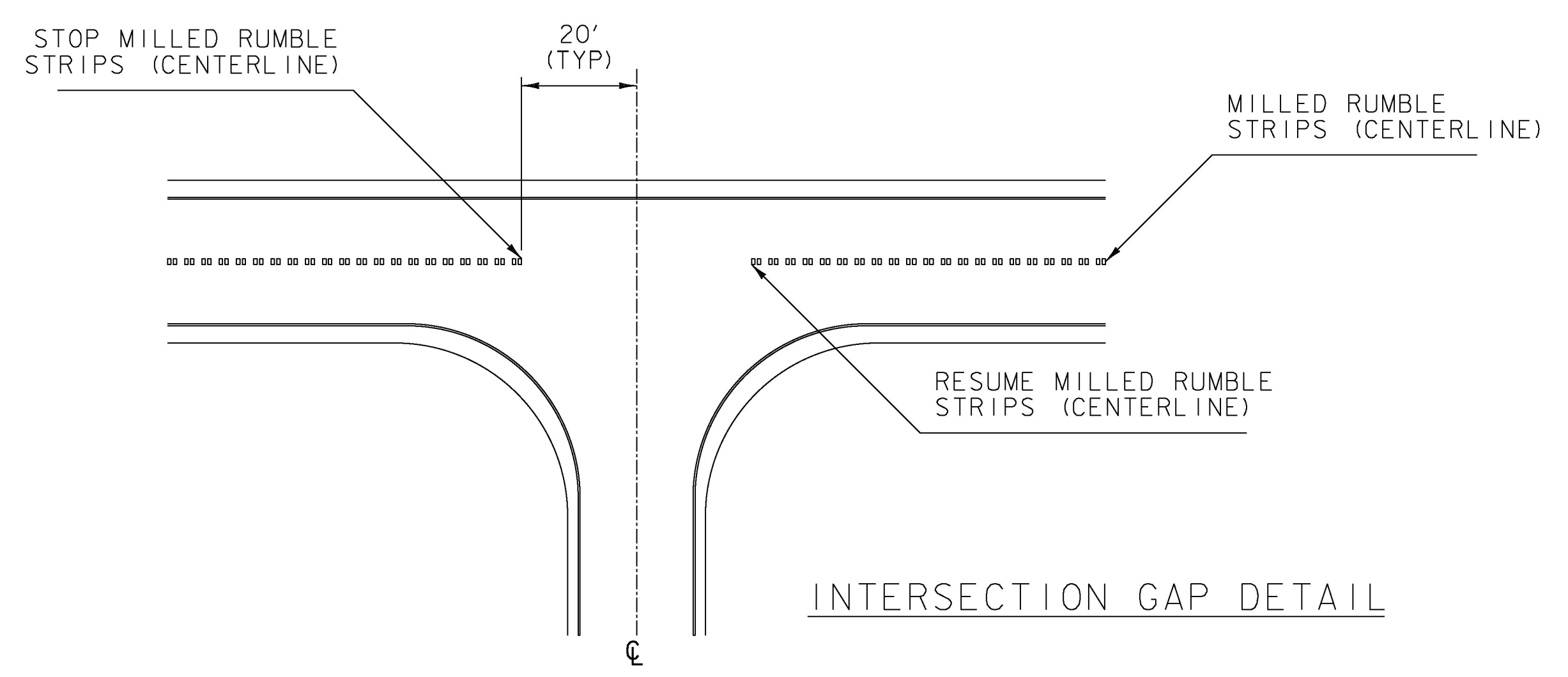
- MILLED RUMBLE STRIPS (CENTERLINE) SHALL BE GAPPED, AS DETAILED, WHEN ANY PORTION OF A RESIDENCE IS WITHIN 100 FEET OF THE ROADWAY CENTERLINE.



RUMBLE STRIP DETAIL

NOTES:

- DIMENSION "A" SHALL BE 12 INCHES WHEN FOUR INCH CENTERLINE PAVEMENT MARKINGS ARE TO BE INSTALLED AND 16 INCHES WHEN SIX INCH CENTERLINE PAVEMENT MARKINGS ARE TO BE INSTALLED.
- WHEN MILLED RUMBLE STRIPS (CENTERLINE) IS SPECIFIED TO BE SEALED WITH SPECIAL PROVISION (FOG SEAL SURFACE TREATMENT) IT SHALL BE SEALED WITH TWO APPLICATIONS.



NOTE:

- MILLED RUMBLE STRIPS (CENTERLINE) SHALL STOP 20 FEET PRIOR TO ALL INTERSECTIONS, IN BOTH DIRECTIONS OF TRAVEL.

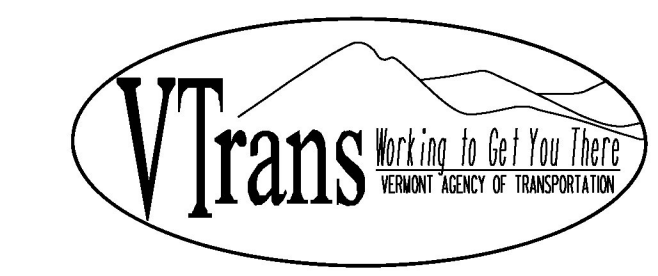
GENERAL NOTES:

- STATIONING SHOWN ON PLANS, FOR MILLED RUMBLE STRIPS (CENTERLINE), IS BASED ON LIMITED FIELD SURVEY, ALL GAPS SHALL BE FIELD VERIFIED PRIOR TO INSTALLATION.

| REV. | DATE | DESCRIPTION |
|------|---------------|--|
| 0 | NOV. 3, 2015 | ORIGINAL APPROVAL |
| 1 | FEB. 4, 2016 | ADDED LATERAL TOLERANCE NOTE |
| 2 | FEB. 27, 2017 | ADDED RESIDENTIAL GAP DETAIL |
| 3 | SEP. 28, 2017 | REVISED RUMBLE STRIP WIDTH FROM 18 INCHES TO 16 INCHES, FOR 12 INCH MARKINGS |

OTHER DETAILS REQUIRED: NONE
 DETAILS APPROVED FOR USE BY HIGHWAY SAFETY & DESIGN

MILLED RUMBLE STRIPS (CENTERLINE)



HIGHWAY SAFETY
 & DESIGN DETAIL
 HSD-213.02