

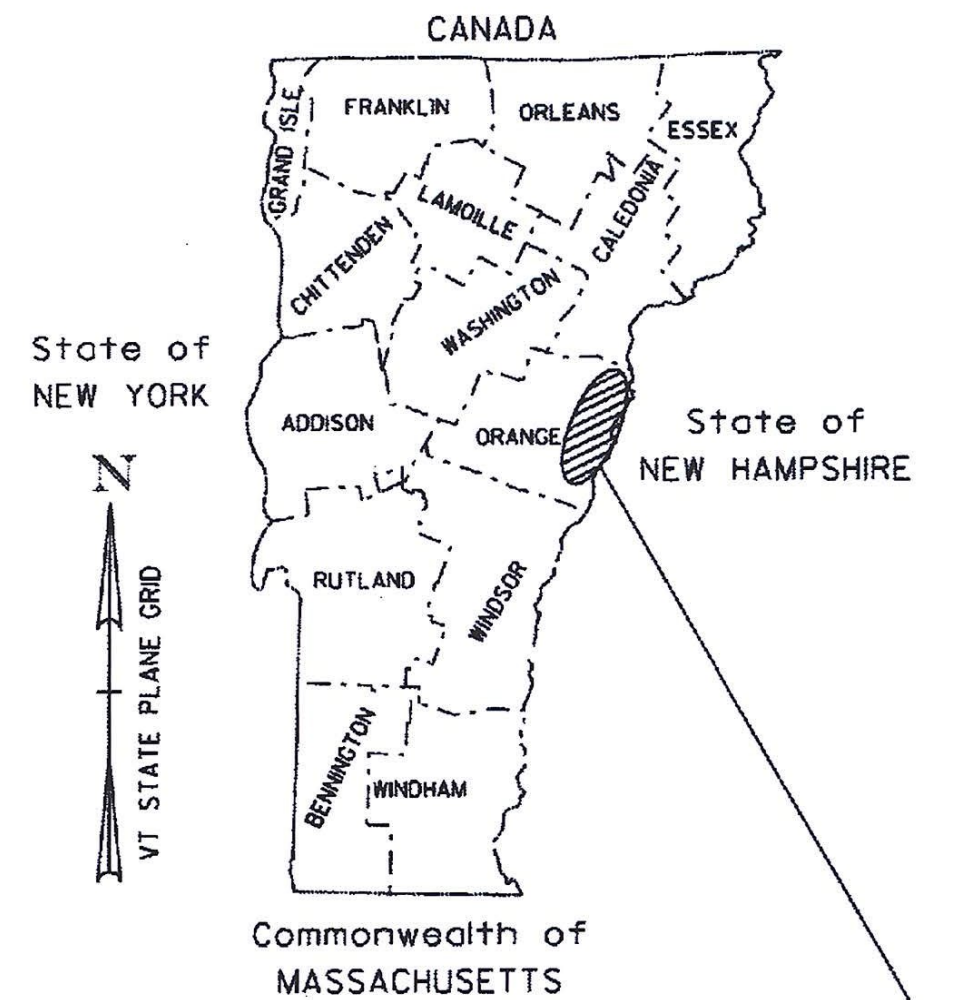
INDEX OF SHEETS

1. TITLE SHEET
  2. TYPICAL SECTION - ALTERNATE A
  3. TYPICAL SECTION - ALTERNATE B
  4. NOTES & DETAILS COMMON TO BOTH ALTERNATES
  - 5.-10. BRIDGE DETAIL SHEETS 1 - 6
  - 11.-11A. TYPICAL INTERCHANGE CONSTRUCTION DETAILS 1 & 2
  - 12.-13. QUANTITY SHEETS 1 & 2
  - 14.-15. PAVEMENT MARKING DETAIL SHEETS 1 & 2 MAINLINE
  - 16.-18. PAVEMENT MARKING DETAIL SHEETS 3 - 5 EXIT 16 NB
  19. PAVEMENT MARKING DETAIL SHEET 6 REST AREA NB
  20. PAVEMENT MARKING DETAIL SHEET 7 REST AREA SB
  21. PAVEMENT MARKING DETAIL SHEET 8
  22. CONSTRUCTION APPROACH SIGNING SHEET
  23. CONSTRUCTION APPROACH SIGNING SHEET NOTES
  24. ROUGHNESS DATA INFORMATION SHEET NB
  25. RUTTING DATA INFORMATION SHEET NB
  26. ROUGHNESS DATA INFORMATION SHEET SB
  27. RUTTING DATA INFORMATION SHEET SB
- STRUCTURES DETAIL SHEET  
SD-516.10 BRIDGE JOINT ASPHALTIC PLUG

STATE OF VERMONT  
AGENCY OF TRANSPORTATION



PROPOSED IMPROVEMENT  
TOWNS OF FAIRLEE, BRADFORD & NEWBURY  
COUNTY OF ORANGE  
INTERSTATE ROUTE 91 (NHS)



RECORD PLANS

CONTRACTOR: ALL STATES ASPHALT, INC. - SUNDERLAND, MA

RESIDENT ENGINEER: JAY STRONG

CONSTRUCTION BEGAN: JULY 14, 2014

CONSTRUCTION COMPLETE: SEPTEMBER 24, 2014

RECORD PLANS BY: JAY STRONG & C. PIERCE

I HEREBY CERTIFY THAT ALL THE CONSTRUCTION REQUIRED BY THIS SET OF DRAWINGS HAS BEEN ACCOMPLISHED AS INDICATED HEREIN.

BY: *Jay Strong* RESIDENT ENGINEER  
DATE: 10/9/2015

NOTE: Any further information concerning final quantities, amounts or other details relative to this project may be found by contacting Vtrans Records Management.

VAOT STANDARDS

|       |          |
|-------|----------|
| E-191 | 02/01/99 |
| E-192 | 10/12/00 |
| E-193 | 08/18/95 |
| T-1   | 08/06/12 |
| T-10  | 08/06/12 |
| T-11  | 08/06/12 |
| T-12  | 08/06/12 |
| T-13  | 08/06/12 |
| T-16  | 08/06/12 |
| T-17  | 08/06/12 |
| T-22  | 08/06/12 |
| T-23  | 08/06/12 |
| T-28  | 08/06/12 |
| T-29  | 08/06/12 |
| T-30  | 08/06/12 |
| T-31  | 08/06/12 |
| T-33  | 08/06/12 |
| T-36  | 08/06/12 |

IM SURF (40) NORTHBOUND:  
BEGINNING IN THE TOWN OF FAIRLEE AT MILE MARKER 92.480 AND EXTENDING NORTHERLY ALONG INTERSTATE ROUTE 91 (NORTHBOUND LANE) FOR A DISTANCE OF 66,264.00 FT (12.550 MILES) TO MILE MARKER 105.030 IN THE TOWN OF NEWBURY.

LENGTH OF ROADWAY = 66,264.00 FT = (12.550 MILES)

IM SURF (40) SOUTHBOUND:  
BEGINNING IN THE TOWN OF BRADFORD AT MILE MARKER 98.400 AND EXTENDING NORTHERLY ALONG INTERSTATE ROUTE 91 (SOUTHBOUND LANE) FOR A DISTANCE OF 34,848.00 FT (6.600 MILES) TO MILE MARKER 105.000 IN THE TOWN OF NEWBURY.

LENGTH OF ROADWAY = 34,848.00 FT = (6.600 MILES)

LENGTH OF PROJECT = ~~66,264.00 FT~~ = ~~(12.550 MILES)~~

WORK TO BE PERFORMED UNDER THIS PROJECT INCLUDES SURFACE PREPARATION INVOLVING PATCHING, POT HOLE REPAIR, CRACK SEALING AND OVERLAYING WITH A THIN BITUMINOUS CONCRETE WEARING SURFACE ON THE EXISTING INTERSTATE TYPICAL, PAVEMENT MARKINGS, AND OTHER RELATED HIGHWAY ITEMS.

101.12 FT = 19.15 MILES

TRAFFIC DATA

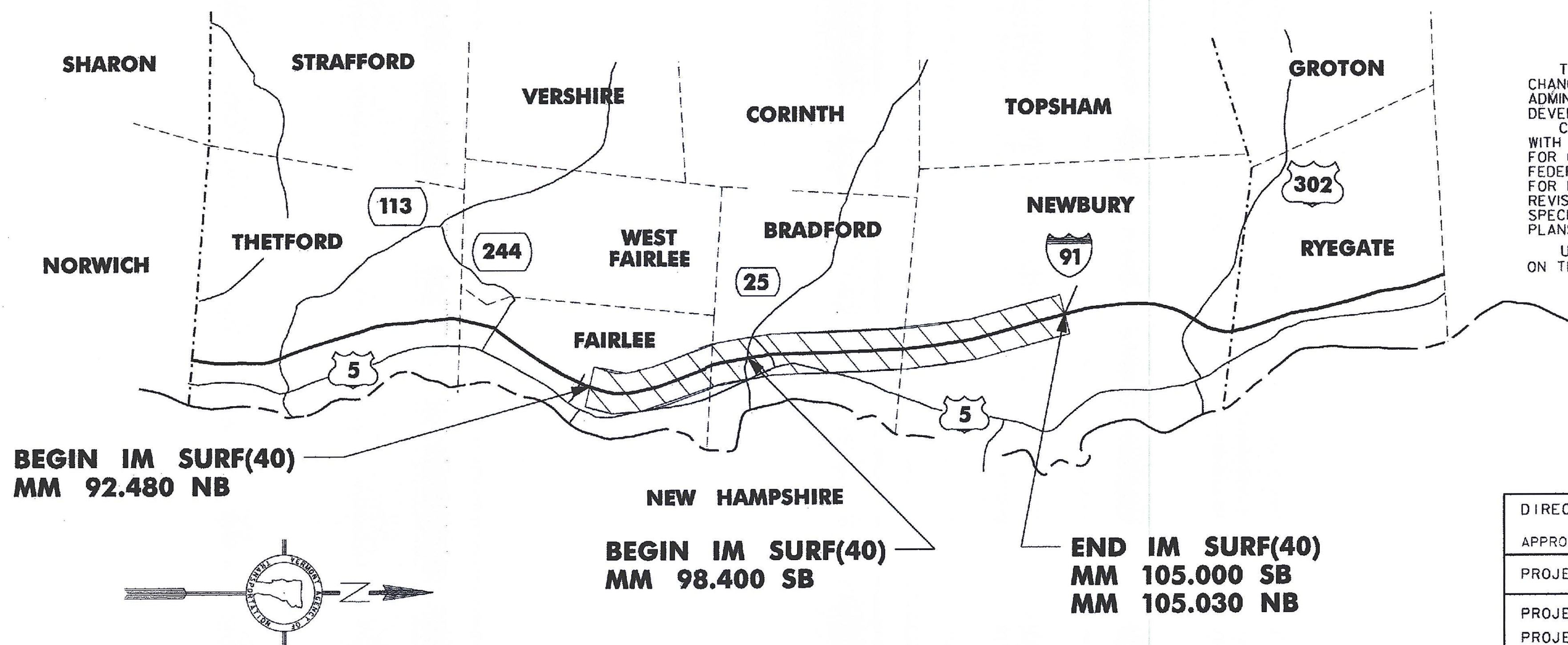
| I-91 NB                     | 2013 AADT | 2023 AADT | 2013 DHV | 2023 DHV | FLEXIBLE ESALS (2013-2023) | FLEXIBLE ESALS (2013-2033) |
|-----------------------------|-----------|-----------|----------|----------|----------------------------|----------------------------|
| BEGIN PROJECT TO EXIT 16 NB | 3,800     | 4,200     | 590      | 650      | 2,072,000                  | 4,839,000                  |
| EXIT 16 TO END PROJECT NB   | 2,800     | 3,100     | 430      | 480      | 1,662,000                  | 3,951,000                  |

| I-91 SB                     | 2013 AADT | 2023 AADT | 2013 DHV | 2023 DHV | FLEXIBLE ESALS (2013-2023) | FLEXIBLE ESALS (2013-2033) |
|-----------------------------|-----------|-----------|----------|----------|----------------------------|----------------------------|
| BEGIN PROJECT TO EXIT 16 SB | 3,800     | 4,200     | 520      | 570      | 2,527,000                  | 5,998,000                  |
| EXIT 16 TO END PROJECT SB   | 2,800     | 3,100     | 380      | 420      | 1,579,000                  | 3,730,000                  |

QUALITY ASSURANCE PROGRAM LEVEL I

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       |  |



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 2011, AS APPROVED BY THE FEDERAL HIGHWAY ADMINISTRATION ON JULY 20, 2011 FOR USE ON THIS PROJECT, INCLUDING ALL SUBSEQUENT REVISIONS AND SUCH REVISED SPECIFICATIONS AND SPECIAL PROVISIONS AS ARE INCORPORATED IN THESE PLANS.

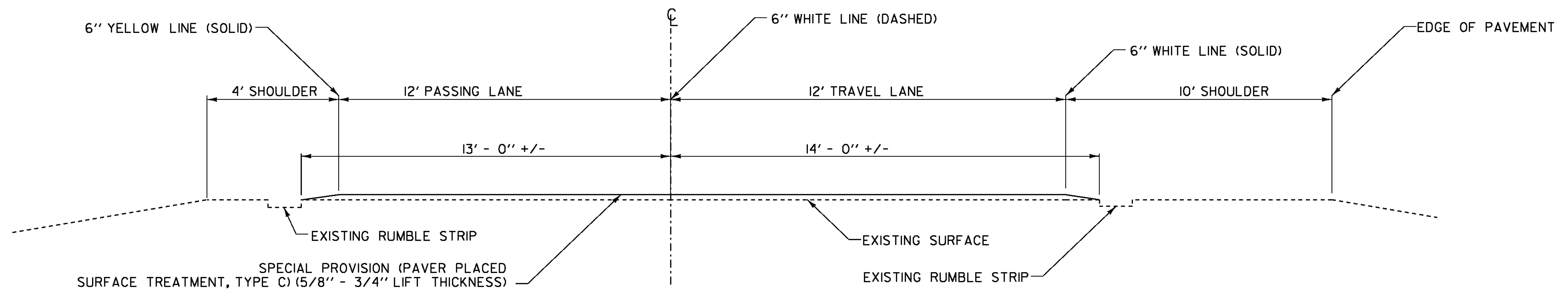
UNLESS OTHERWISE NOTED THE DRAWINGS AND DETAILS ON THESE PLANS ARE DRAWN NOT TO SCALE.

DIRECTOR OF PROGRAM DEVELOPMENT  
APPROVED: *Kevin A. Masche* DATE: 2/11/14

PROJECT MANAGER: MIKE FOWLER, P.E.

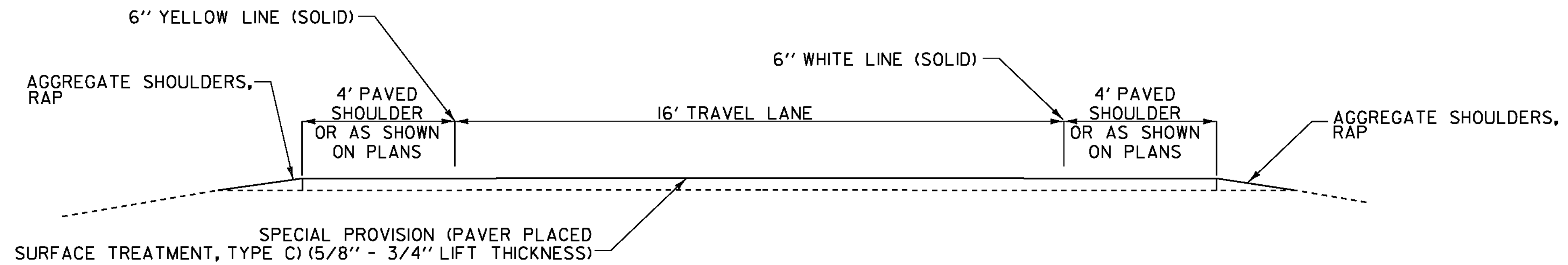
PROJECT NAME: FAIRLEE - NEWBURY  
PROJECT NUMBER: IM SURF (40)

SHEET 1 OF 27 SHEETS



**ROADWAY PROJECT TYPICAL SECTION - ALTERNATE A**  
**I-91 NORTHBOUND FAIRLEE M.M. 92.480 - NEWBURY M.M. 105.030**  
**I-91 SOUTHBOUND BRADFORD M.M. 98.400 - NEWBURY M.M. 105.000**

NOT TO SCALE

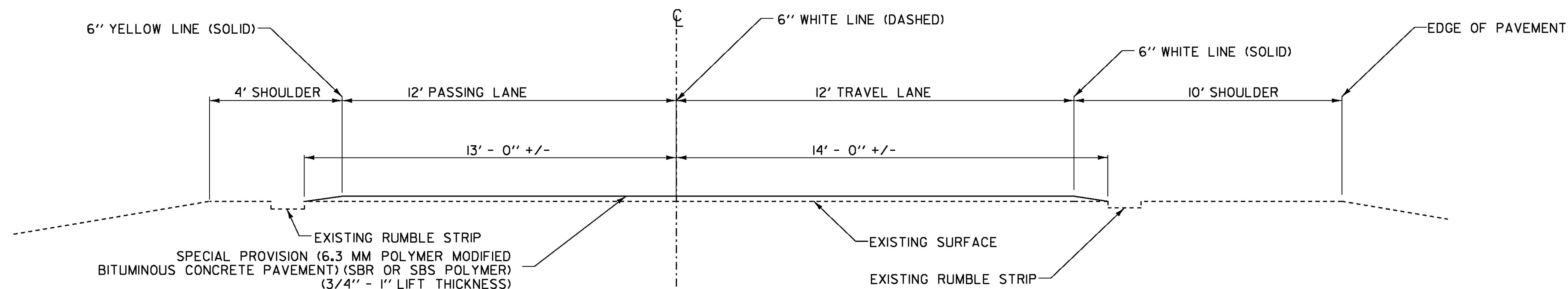


**TYPICAL RAMP SECTION**  
**ALTERNATE A**  
 NOT TO SCALE

**TYPICAL SECTION -**  
**ALTERNATE A**

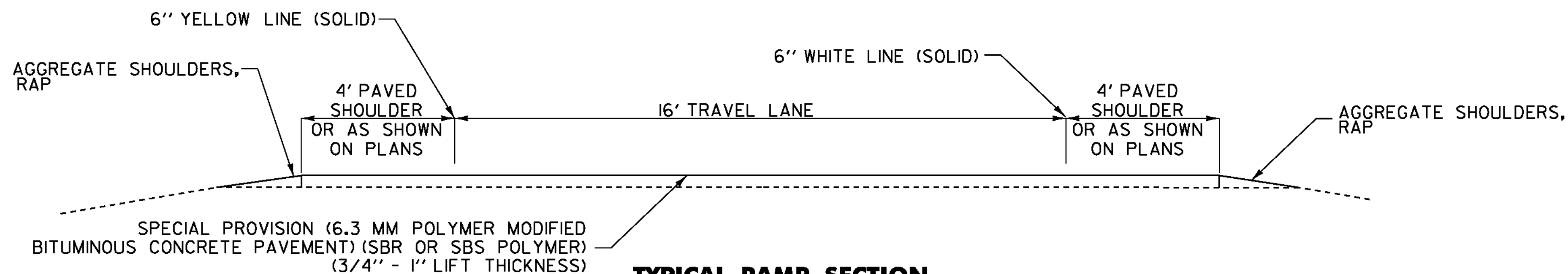
PROJECT NAME: FAIRLEE - NEWBURY  
 PROJECT NUMBER: IM SURF (40)

|                               |                        |
|-------------------------------|------------------------|
| FILE NAME: I3a236\pl3a236.dgn | PLOT DATE: 20-FEB-2014 |
| PROJECT LEADER: M. FOWLER     | DRAWN BY: LOCKE        |
| DESIGNED BY: LOCKE            | CHECKED BY: FOWLER     |
| IPARM FILE NAME: pl3a236_02.1 | SHEET 2 OF 27          |



**ROADWAY PROJECT TYPICAL SECTION - ALTERNATE B**  
**I-91 NORTHBOUND FAIRLEE M.M. 92.480 - NEWBURY M.M. 105.030**  
**I-91 SOUTHBOUND BRADFORD M.M. 98.400 - NEWBURY M.M. 105.000**

NOT TO SCALE



**TYPICAL RAMP SECTION**

**ALTERNATE B**

NOT TO SCALE

**NOTES:**

1. PRIOR TO THE PLACEMENT OF THE 6.3 MM POLYMER MODIFIED BITUMINOUS CONCRETE PAVEMENT, EMULSIFIED ASPHALT SHALL BE APPLIED TO ALL EXISTING PAVEMENT SURFACES AND ON ALL COLD PLANED SURFACES AT A RATE OF 0.080 GAL/SY (+/- 0.01GAL/SY) OR AS DIRECTED BY THE ENGINEER. EMULSIFIED ASPHALT SHALL BE RS-IH OR CRS-IH PER THE MANUFACTURER'S RECOMMENDATION AND PAID UNDER ITEM 900.683 SPECIAL PROVISION (EMULSIFIED ASPHALT) (RS-IH OR CRS-IH).

2. THE GYRATION SPECIFICATION FOR THE 6.3 MM POLYMER MODIFIED BITUMINOUS CONCRETE PAVEMENT SHALL BE 65.

**TYPICAL SECTION -  
ALTERNATE B**

PROJECT NAME: FAIRLEE - NEWBURY

PROJECT NUMBER: IM SURF (40)

FILE NAME: I3a236\pl3a236.dgn

PROJECT LEADER: M. FOWLER

DESIGNED BY: LOCKE

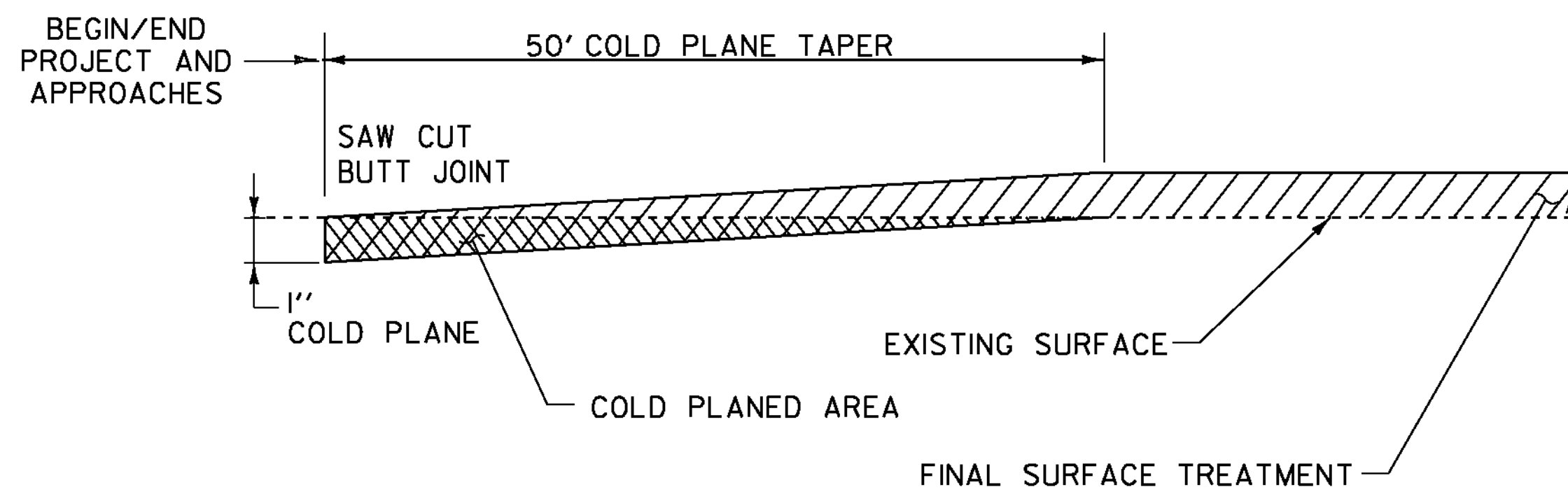
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PLOT DATE: 20-FEB-2014

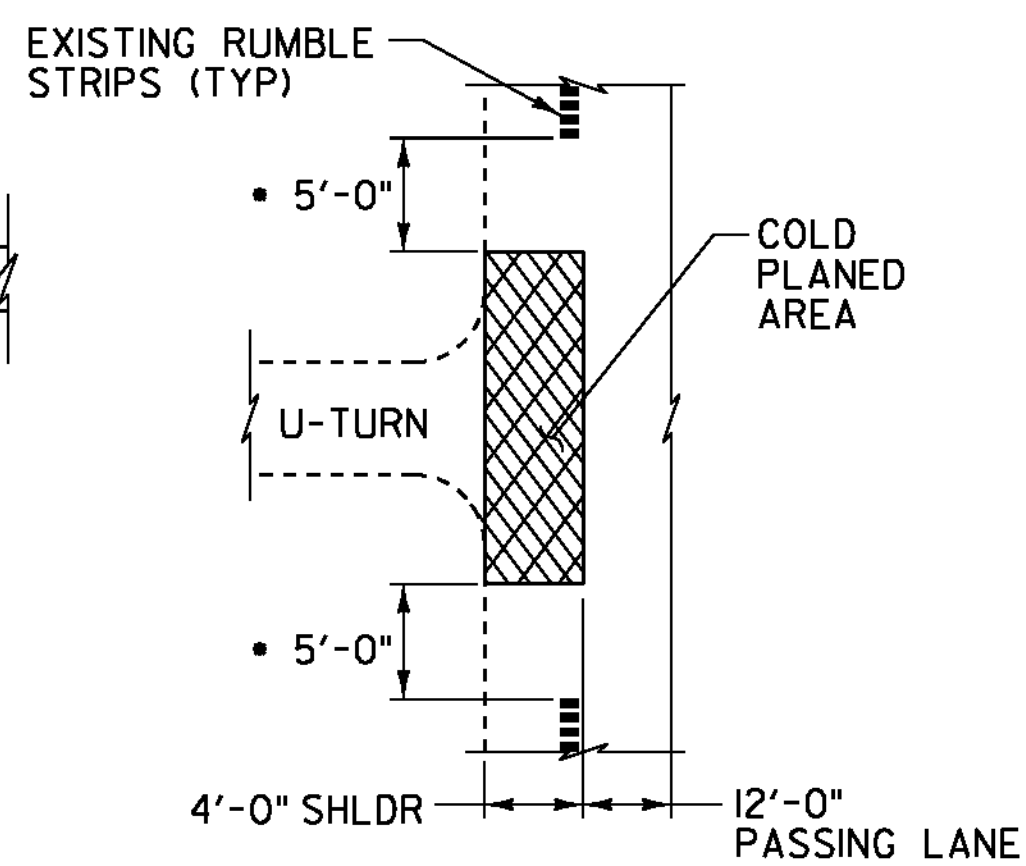
DRAWN BY: LOCKE

CHECKED BY: FOWLER

SHEET 3 OF 27

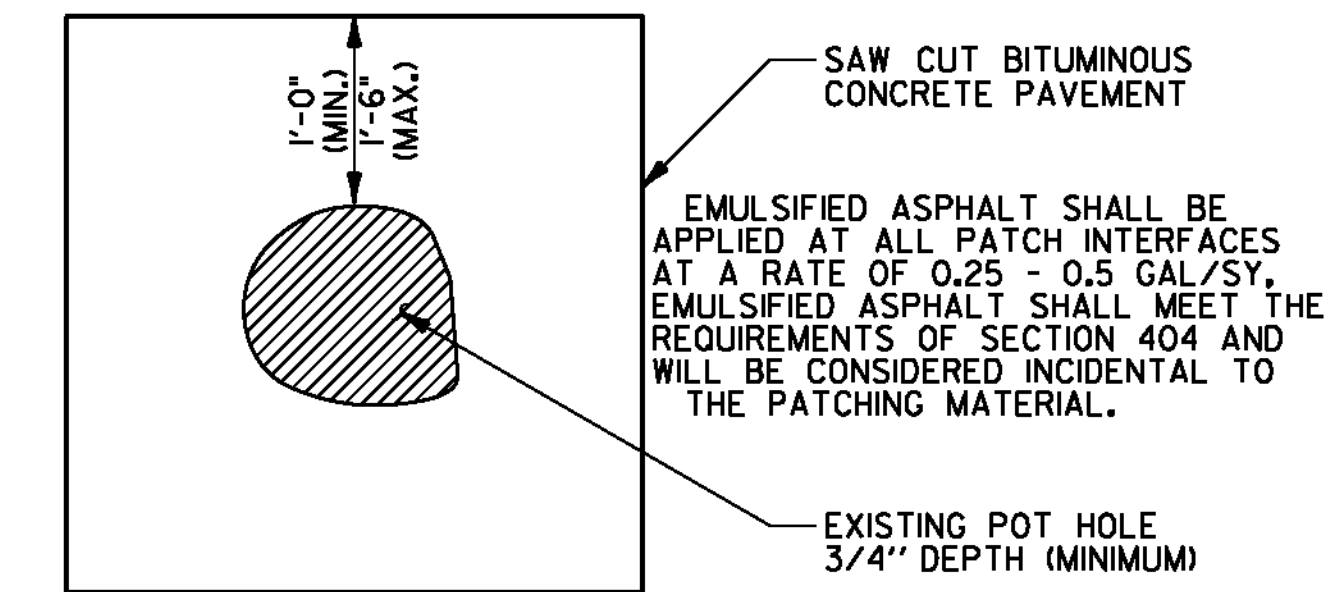
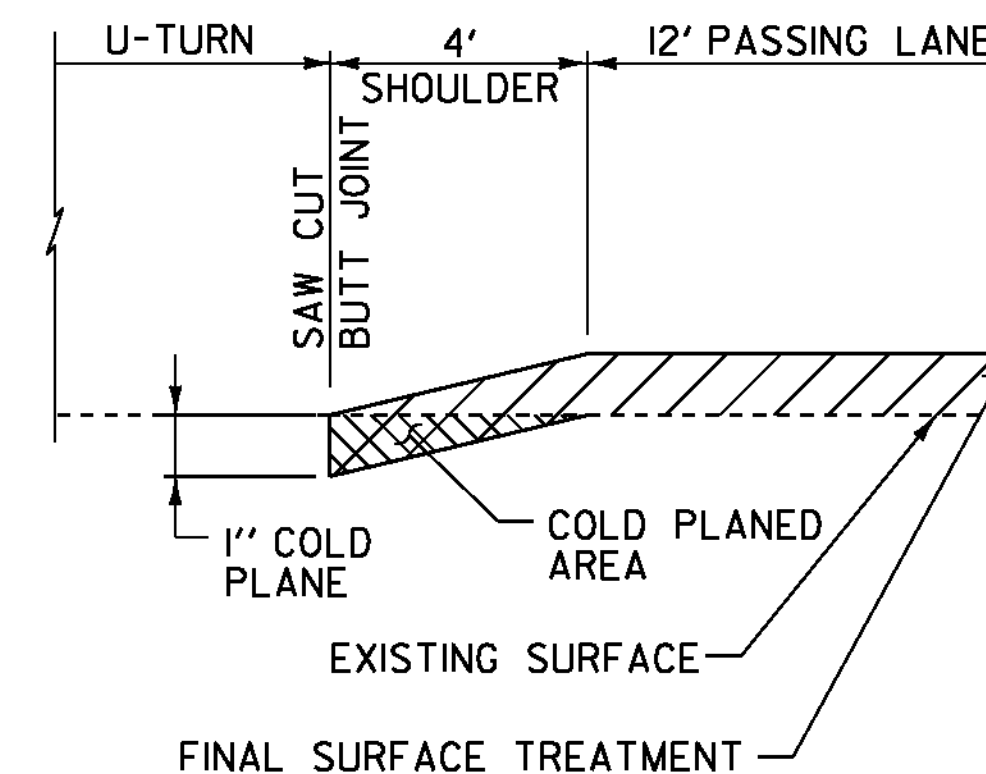


**TYPICAL APPROACH AREA DETAIL MAINLINE & RAMPS**  
NOT TO SCALE

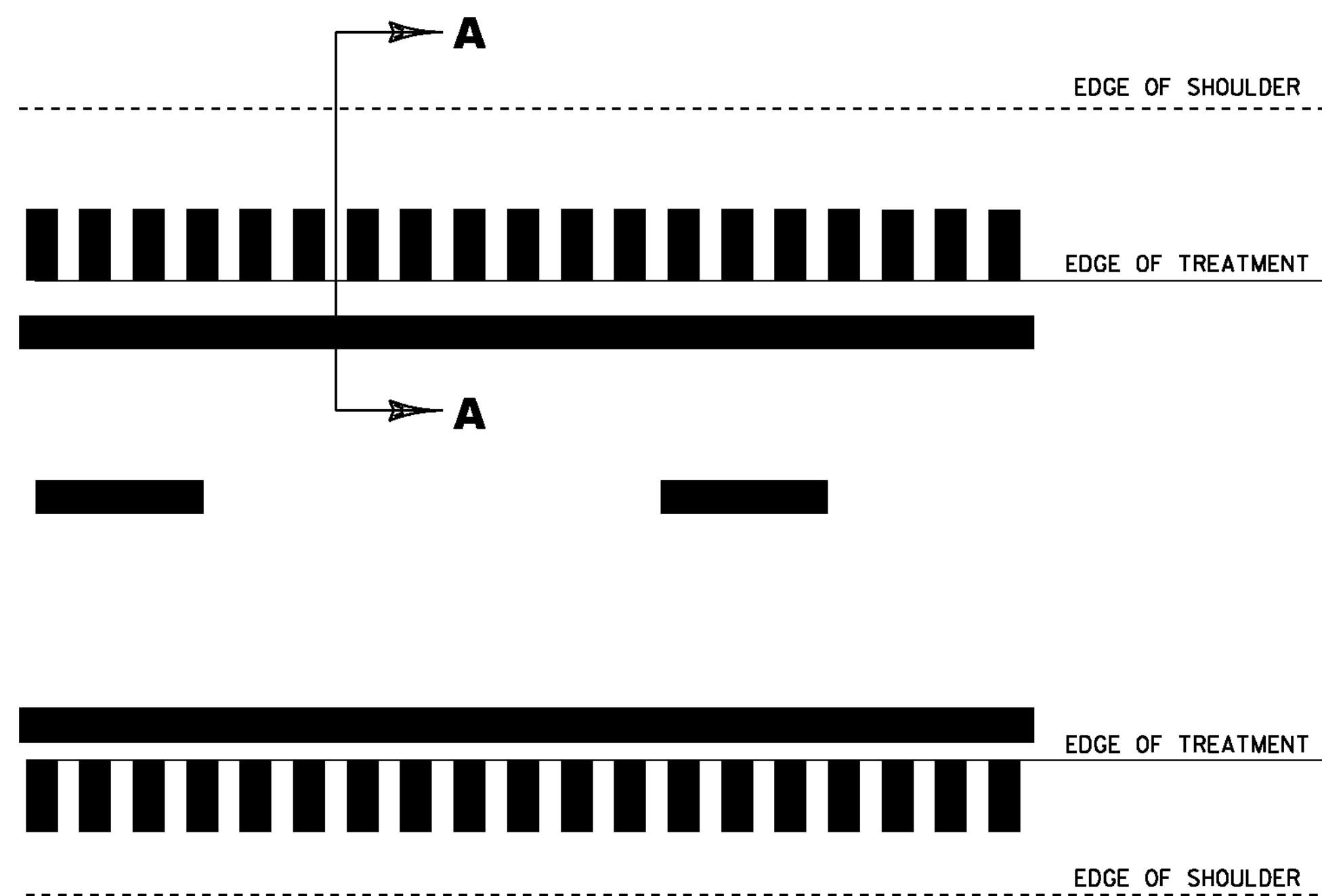


- BEGIN COLD PLANING 5'-0" AFTER RUMBLE STRIPS END, AND END COLD PLANING 5'-0" BEFORE RUMBLE STRIPS BEGIN

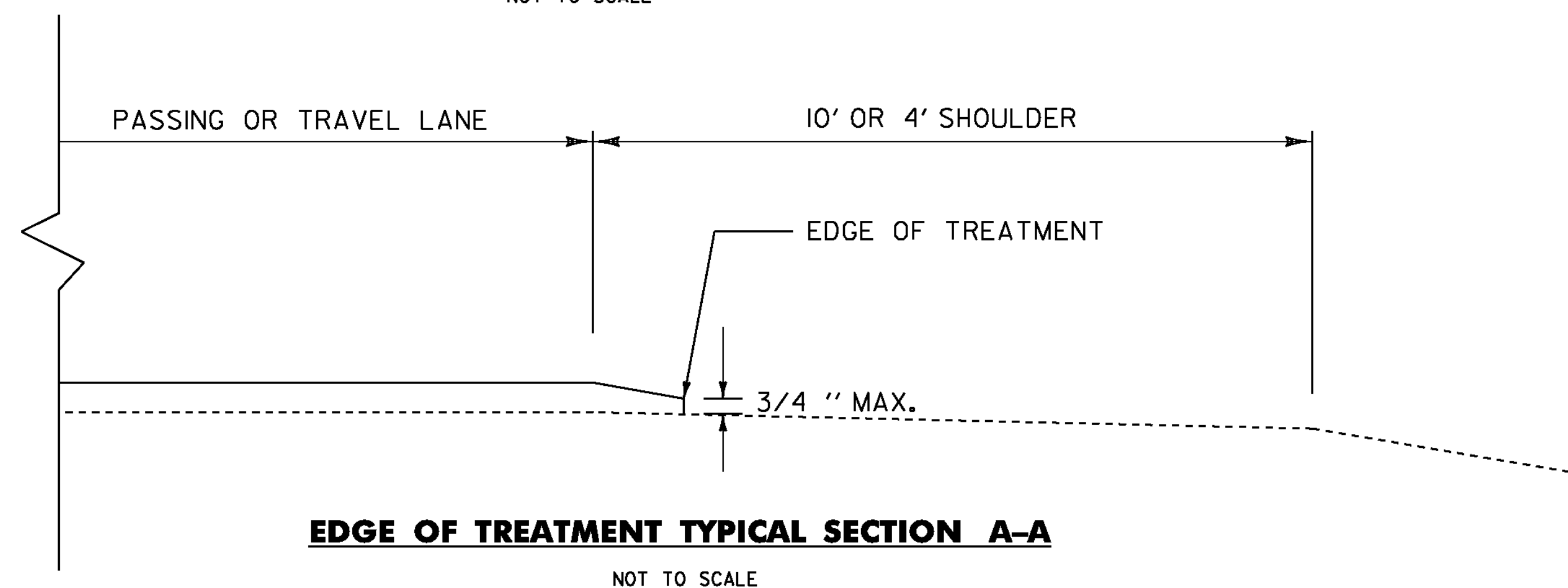
**COLD PLANE DETAIL AT U-TURNS**  
NOT TO SCALE



**TYPICAL POT HOLE REPAIR**  
NOT TO SCALE



**EDGE OF TREATMENT TYPICAL PLAN**  
NOT TO SCALE



**EDGE OF TREATMENT TYPICAL SECTION A-A**  
NOT TO SCALE

**NOTES:**

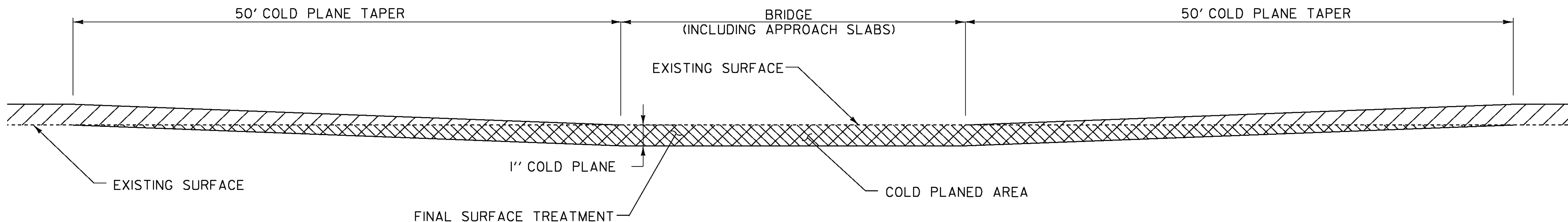
1. ALL NECESSARY SURFACE PREPARATION INVOLVING PATCHING, POTHOLE REPAIR, AND CRACK-SEALING SHALL BE PERFORMED PRIOR TO APPLICATION OF THE FINAL SURFACE TREATMENT. ALL CRACKS GREATER THAN 0.10" AND UP TO 1.0" IN WIDTH SHALL BE SEALED USING THE "BLOW AND GO" FILL METHOD. ALL COSTS ASSOCIATED WITH THIS WORK SHALL BE PAID FOR UNDER ITEM 417.20, BITUMINOUS CRACK SEALING, "BLOW AND GO" METHOD. THE PATCHING OF ALL CRACKS GREATER THAN 1.0" AND ALL OTHER PATCHING AND POTHOLE REPAIR SHALL BE COMPLETED USING BITUMINOUS CONCRETE PAVEMENT IN ACCORDANCE WITH ITEM 900.680 SPECIAL PROVISION (BITUMINOUS CONCRETE PAVEMENT SURFACE PREPARATION, TYPE I). AN ESTIMATED QUANTITY FOR THIS ITEM HAS BEEN INCLUDED TO COVER ALL COSTS ASSOCIATED WITH THIS WORK.
2. EXISTING SHOULDER PAVEMENT SURFACES BEYOND THE LIMITS OF THE FINAL SURFACE TREATMENT SHALL ALSO RECEIVE CRACK-SEALING AND RELATED PATCHING AND POTHOLE REPAIR TREATMENTS.
3. FOLLOWING COMPLETION OF COLD PLANING, THE MILLED SURFACE FOR ALL BRIDGES SHALL ALSO RECEIVE CRACK-SEALING AND RELATED PATCHING AND POTHOLE REPAIR TREATMENTS, AS DIRECTED BY THE ENGINEER.
4. ALL EXISTING PAVEMENT MARKINGS SHALL BE REMOVED PRIOR TO ANY CRACK SEALING BEING PERFORMED AND PRIOR TO APPLYING THE FINAL SURFACE TREATMENT. ALL LANE DELINEATION IS TO BE MAINTAINED DURING CONSTRUCTION BY THE USE OF LINE STRIPING TARGETS OR TEMPORARY PAINT.
5. A 50' COLD PLANED WEDGE SHALL BE CONSTRUCTED AT THE PROJECT BEGIN, PROJECT END, RAMPS, AND AT ALL BRIDGE APPROACHES OR AS DIRECTED BY THE ENGINEER. THE LONGITUDINAL EDGES OF THE SURFACE TREATMENT SHALL BE FEATHERED AS SHOWN ON THE TYPICAL SECTION, OR AS DIRECTED BY THE ENGINEER. ANY SAWCUTTING AT BUTT JOINTS SHALL BE PAID INCIDENTAL TO ITEM 210.10, COLD PLANING, BITUMINOUS PAVEMENT.
6. IF IT IS DETERMINED BY THE ENGINEER IN AREAS ALONG THE BASE OF THE GUARDRAIL THAT WINTER SAND AND OTHER DEBRIS HAS ACCUMULATED SUFFICIENTLY TO AFFECT PROPER CRACK-SEALING AND RELATED PATCHING AND POTHOLE REPAIR TREATMENTS, THIS MATERIAL SHALL BE REMOVED PRIOR TO CRACK-SEALING, PATCHING, AND POTHOLE REPAIR AS DIRECTED BY THE ENGINEER. AN ESTIMATED QUANTITY FOR ITEM 203.40 SHOULDER BERM REMOVAL HAS BEEN INCLUDED TO COVER THE COSTS ASSOCIATED WITH THIS WORK.
7. THE SCREED OF THE PAVER SHALL BREAK AT THE BREAK POINT OF THE SHOULDER SUCH THAT THE DESIGNED NOMINAL THICKNESS IS CARRIED ONTO THE SHOULDER AND BROKEN OR PINCHED BY ROLLING. EDGE HEIGHT SHALL BE MEASURED A MINIMUM OF FIVE RANDOMLY SPACED POINTS PER TENTH OF A MILE. IF IT IS FOUND THAT THE AVERAGE HEIGHT IS GREATER THAN 3/4" OVER THE TENTH OF A MILE MEASURES SHALL BE PERFORMED SUCH THAT THE 3/4" MAXIMUM HEIGHT IS ACHIEVED. THIS APPLIES TO BOTH THE 10' AND 4' SHOULDER SIDES OF THE HIGHWAY.

**NOTES & DETAILS  
COMMON TO  
BOTH  
ALTERNATES**

PROJECT NAME: FAIRLEE - NEWBURY  
PROJECT NUMBER: 1M SURF (40)

FILE NAME: I3a236\pl3a236.dgn  
PROJECT LEADER: M. FOWLER  
DESIGNED BY: LOCKE  
IPARM FILE NAME: pl3a236\_04.1

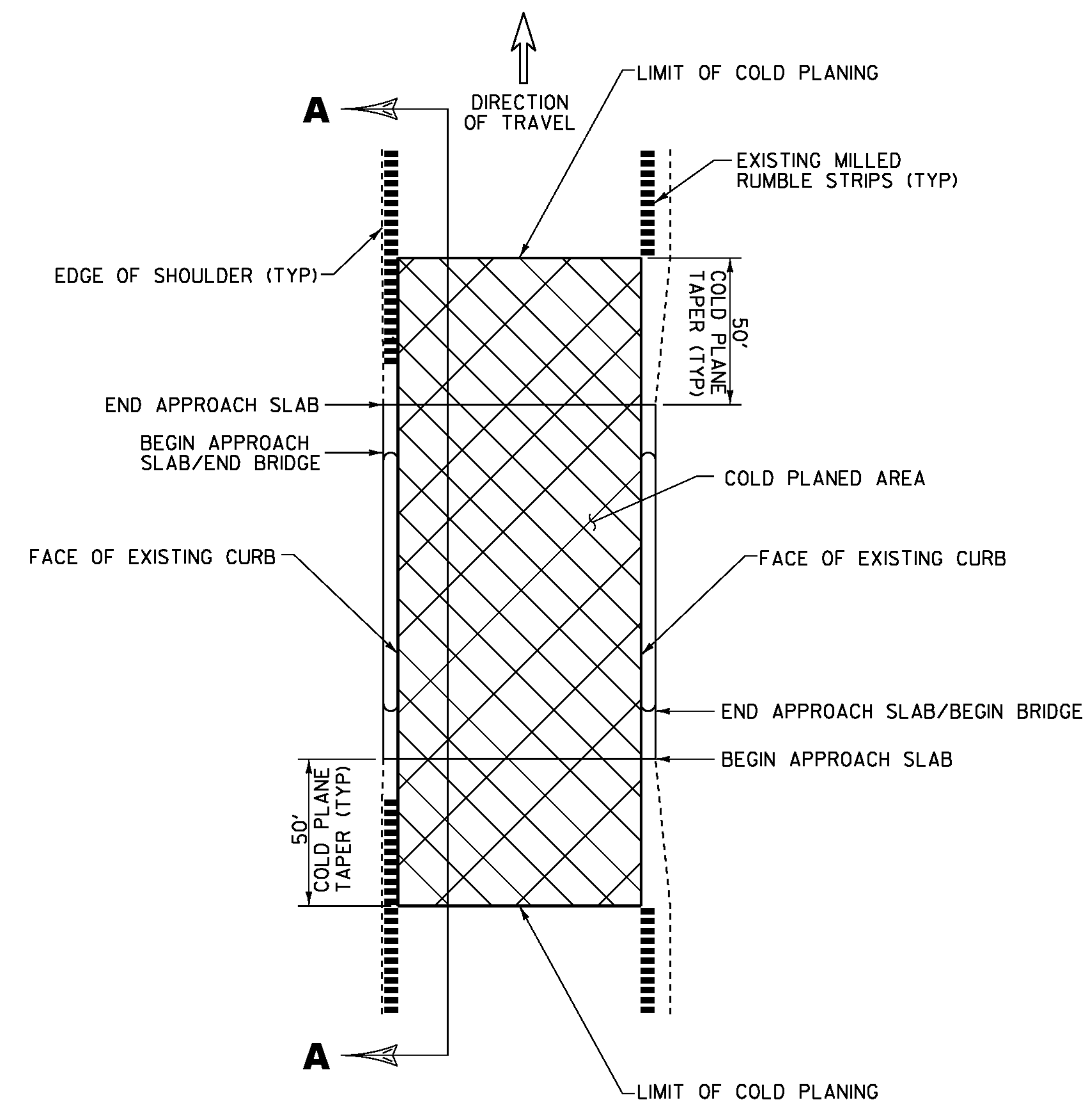
PLOT DATE: 20-FEB-2014  
DRAWN BY: LOCKE  
CHECKED BY: FOWLER  
SHEET 4 OF 27



**BRIDGE COLD PLANE DETAIL**

**LOCATIONS**

- BRIDGE 58 N M.M. 97.627
- BRIDGE 59 N M.M. 97.863
- BRIDGE 60 N M.M. 97.967
- BRIDGE 61 N M.M. 98.433
- BRIDGE 63 N M.M. 103.504
- BRIDGE 61 S M.M. 98.433
- BRIDGE 63 S M.M. 103.504



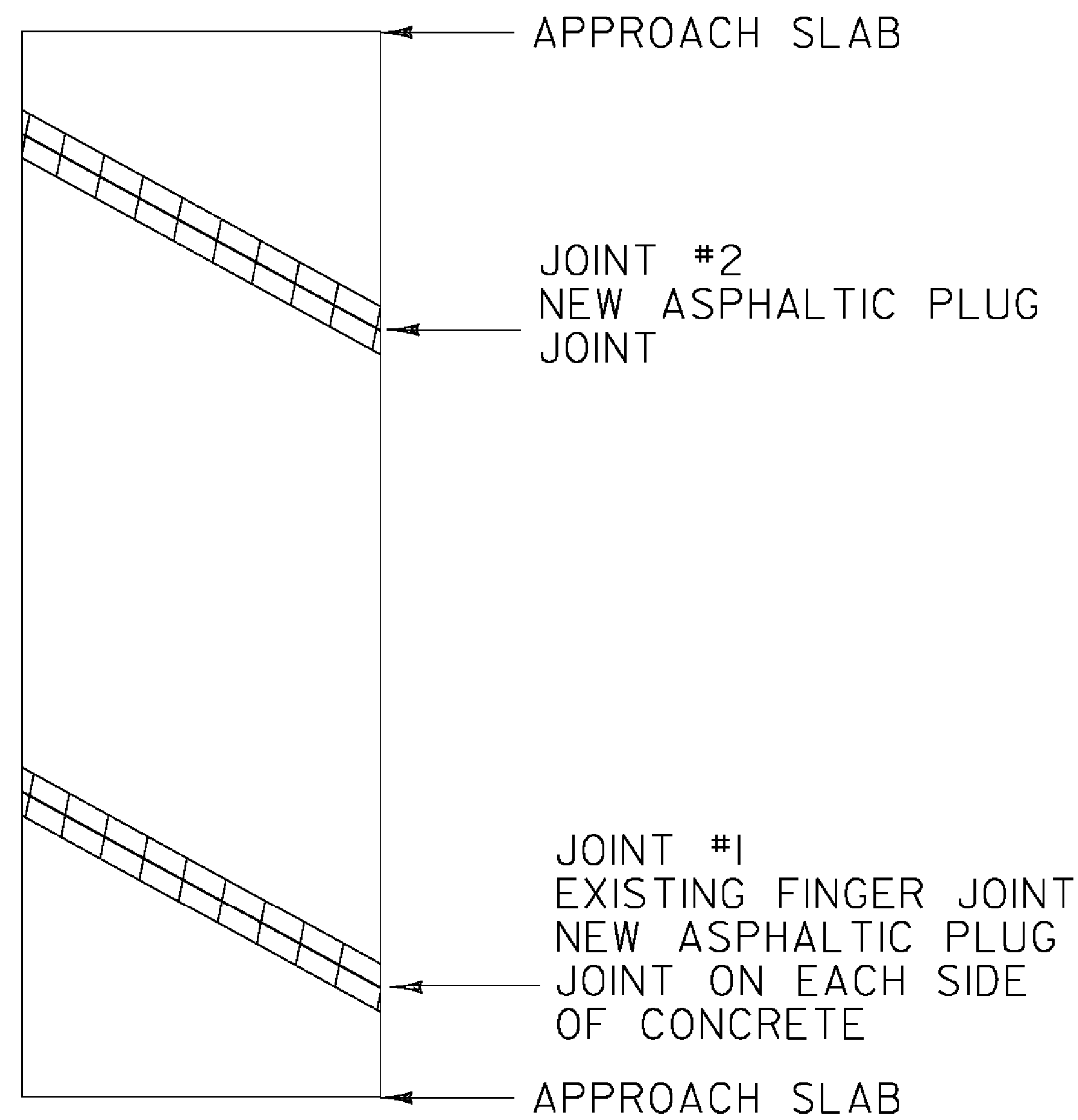
**BRIDGE COLD PLANE TYPICAL PLAN**  
NOT TO SCALE

**NOTES:**

1. REFER TO ASPHALTIC PLUG JOINT DETAIL SHEET, SD-516.10. ALL NEW JOINTS TO BE PAID FOR UNDER ITEM 516.10, "BRIDGE EXPANSION JOINT, ASPHALTIC PLUG."
2. THE CONTRACTOR SHALL TAKE PRECAUTIONS TO AVOID DAMAGING DRAINAGE STRUCTURES AND EXPANSION JOINTS. ANY DAMAGE CAUSED BY THE CONTRACTOR SHALL BE REPAIRED BY THE CONTRACTOR AT THE SOLE EXPENSE OF THE CONTRACTOR.
3. THE CONTRACTOR SHALL TAKE PRECAUTIONS TO AVOID THE ACCUMULATION OF DEBRIS IN THE DRAINAGE STRUCTURES LOCATED AT CURB LINE AND IN THE EXPANSION JOINTS. THE CONTRACTOR SHALL EXAMINE THESE BRIDGE FEATURES ON A DAILY BASIS TO ENSURE THAT DEBRIS HAS NOT ACCUMULATED. ANY DEBRIS WHICH IS PRESENT SHALL BE REMOVED BY THE CONTRACTOR AT NO COST TO THE STATE.
4. THE CONTRACTOR SHALL USE CAUTION WHEN COLD PLANING AND PAVING OPERATIONS OCCUR ON BRIDGE DECKS. SHOULD ANY DAMAGE OCCUR TO THE DECK OR MEMBRANE AS A RESULT OF THESE OPERATIONS THE ENGINEER SHALL CONTACT THE VTRANS CONSTRUCTION STRUCTURES ENGINEER TO PROVIDE AN ASSESSMENT OF THE DAMAGE AND RECOMMEND ANY NECESSARY REPAIRS. THE CONSTRUCTION STRUCTURES ENGINEER WILL ALSO DETERMINE IF THE DAMAGE WAS AVOIDABLE. IF THE CONTRACTOR IS DETERMINED BY THE CONSTRUCTION STRUCTURES ENGINEER TO BE AT FAULT FOR THE DAMAGE, THE RECOMMENDED REPAIRS SHALL BE COMPLETED BY THE CONTRACTOR AT NO COST TO THE STATE.

|  |                                 |                        |
|--|---------------------------------|------------------------|
| <b>BRIDGE<br/>DETAIL SHEET<br/># 1</b> | PROJECT NAME: FAIRLEE - NEWBURY |                        |
|  | PROJECT NUMBER: IM SURF (40)    |                        |
|  | FILE NAME: I3a236\pl3a236.dgn   | PLOT DATE: 20-FEB-2014 |
| PROJECT LEADER: M. FOWLER              | DRAWN BY: LOCKE                 |                        |
| DESIGNED BY: LOCKE                     | CHECKED BY: FOWLER              |                        |
| IPARM FILE NAME: pl3a236_05.1          | SHEET 5 OF 27                   |                        |

↑  
NORTHBOUND  
DIRECTION OF TRAVEL

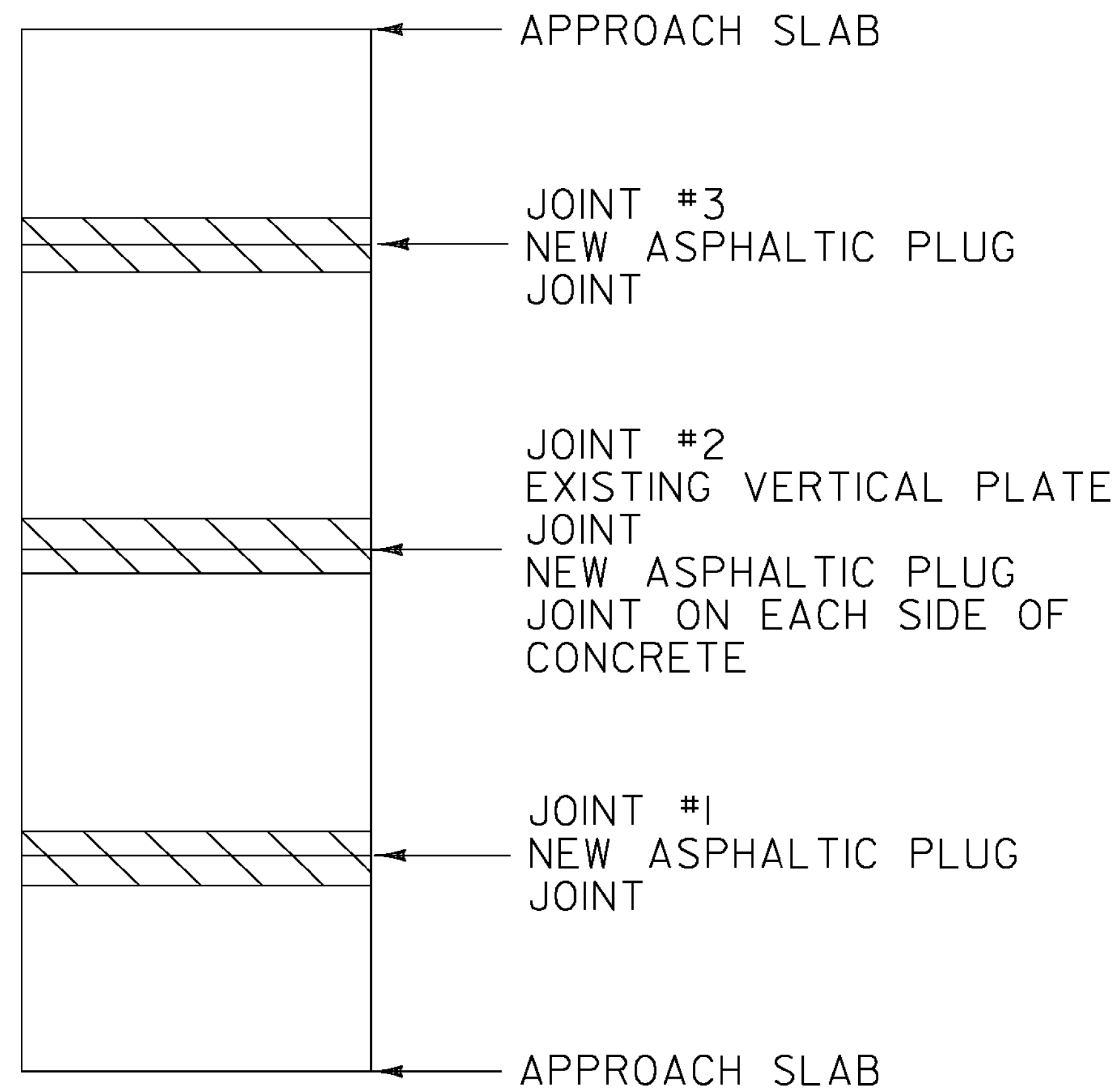


**BRIDGE 58N**

MM 97.627

LENGTH OF ASPHALTIC PLUG JOINTS:  
~~JOINT #1 - 38' X 2 = 76'~~ <sup>48.5'</sup> ~~97'~~  
~~JOINT #2 - 38'~~ <sup>48.5'</sup>  
 TOTAL = ~~114'~~ <sup>145.5'</sup>

↑  
NORTHBOUND  
DIRECTION OF TRAVEL

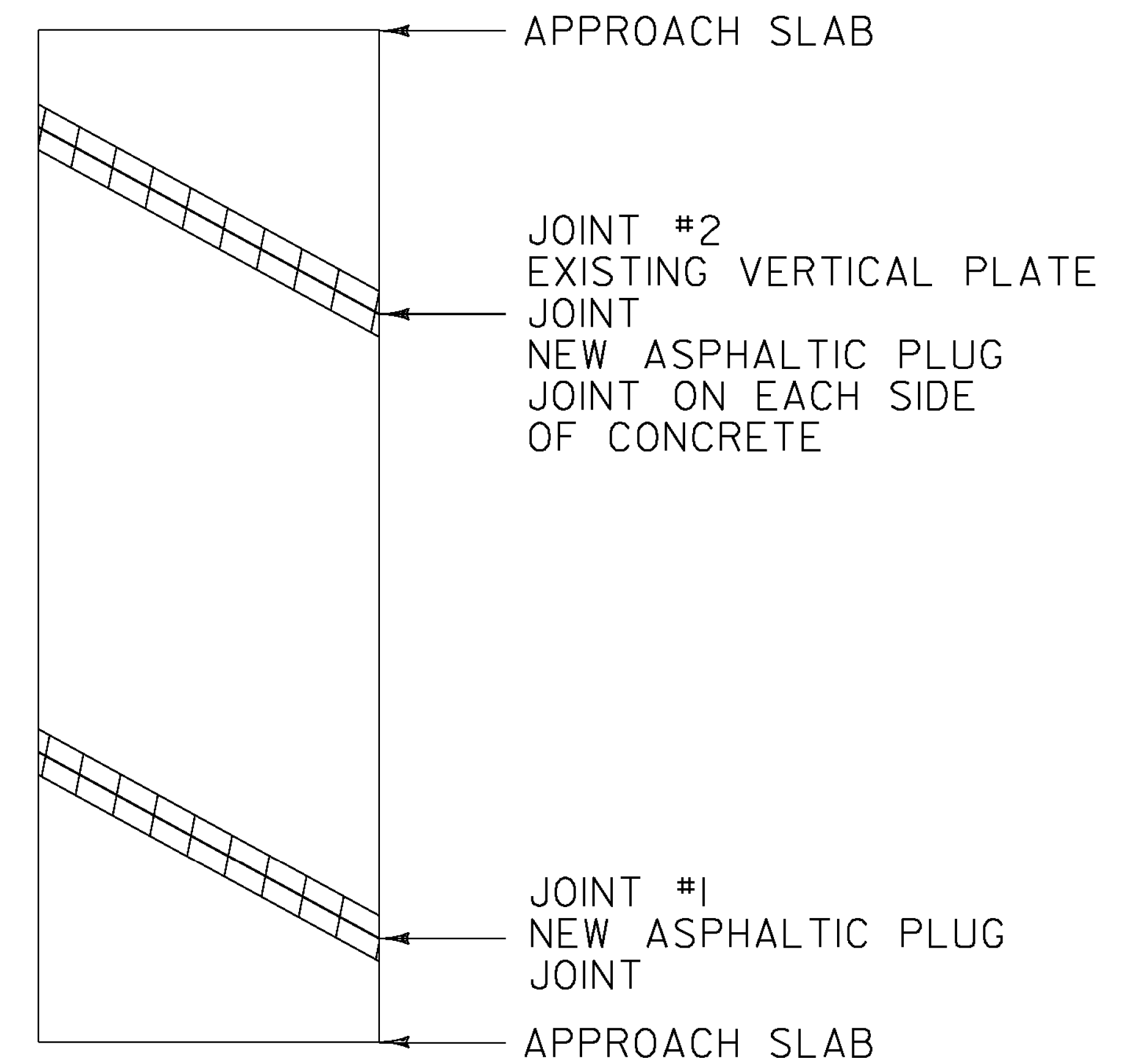


**BRIDGE 59N**

MM 97.863

LENGTH OF ASPHALTIC PLUG JOINTS:  
~~JOINT #1 - 39'~~ <sup>39.5'</sup>  
~~39.5'~~ ~~JOINT #2 - 39' X 2 = 78'~~ <sup>79'</sup>  
~~JOINT #3 - 39'~~ <sup>39.5'</sup>  
 TOTAL = ~~156'~~ <sup>158'</sup>

↑  
NORTHBOUND  
DIRECTION OF TRAVEL

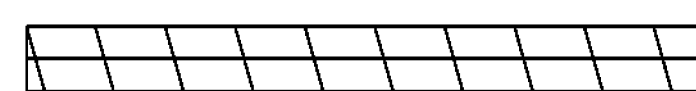


**BRIDGE 60N**

MM 97.967

LENGTH OF ASPHALTIC PLUG JOINTS:  
~~JOINT #1 - 42'~~  
~~JOINT #2 - 42' X 2 = 84'~~  
 TOTAL = 126'

**LEGEND**



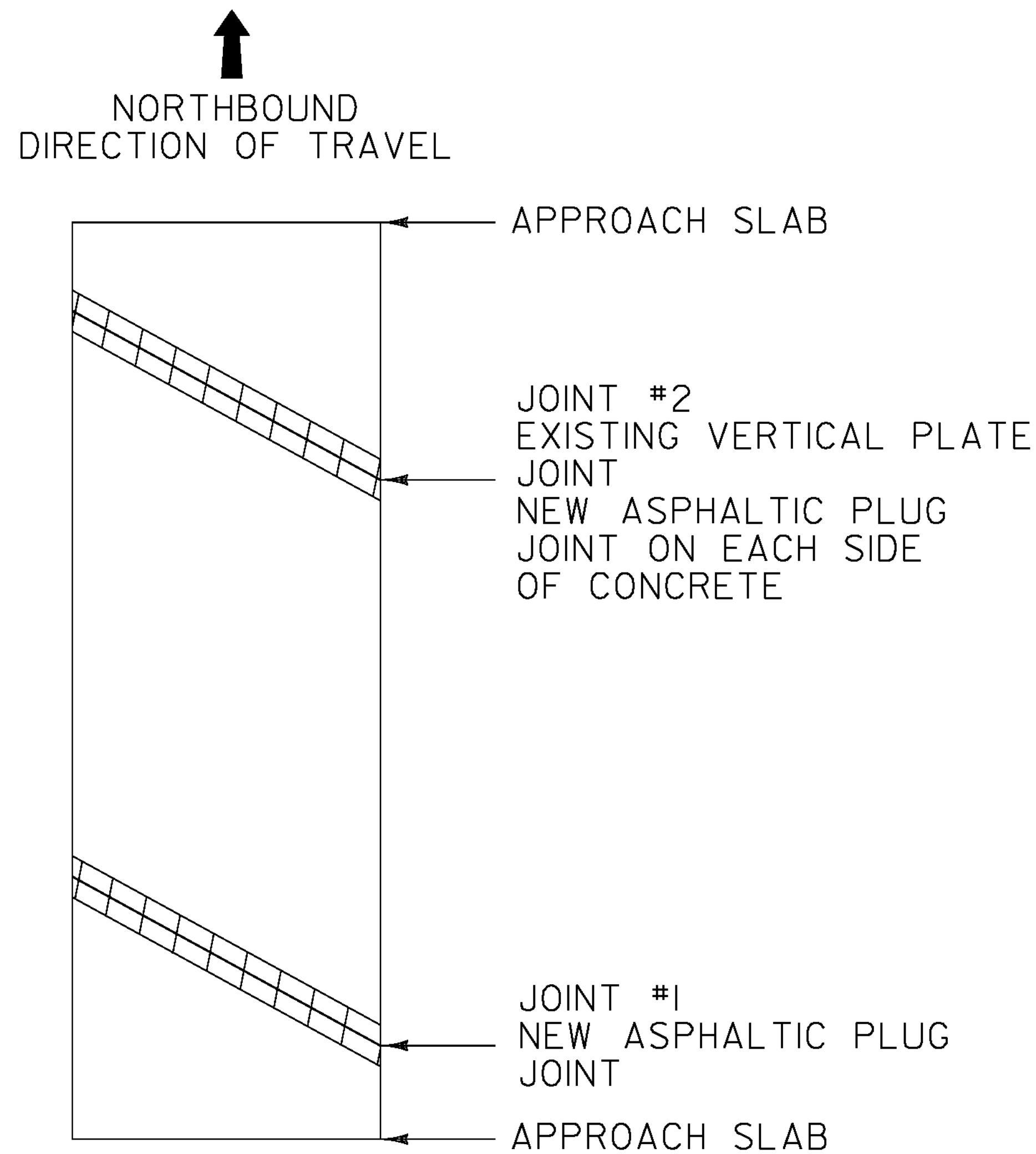
EXISTING BRIDGE JOINTS TO BE  
REPAIRED WITH ASPHALTIC PLUG JOINT

**BRIDGE  
DETAIL SHEET  
# 2**

PROJECT NAME: FAIRLEE - NEWBURY  
PROJECT NUMBER: IM SURF (40)

FILE NAME: i3a236\pi3a236.dgn  
PROJECT LEADER: M. FOWLER  
DESIGNED BY: LOCKE  
IPARM FILE NAME: pi3a236\_06.i

PLOT DATE: 20-FEB-2014  
DRAWN BY: LOCKE  
CHECKED BY: FOWLER  
SHEET 6 OF 27



**BRIDGE 61N**

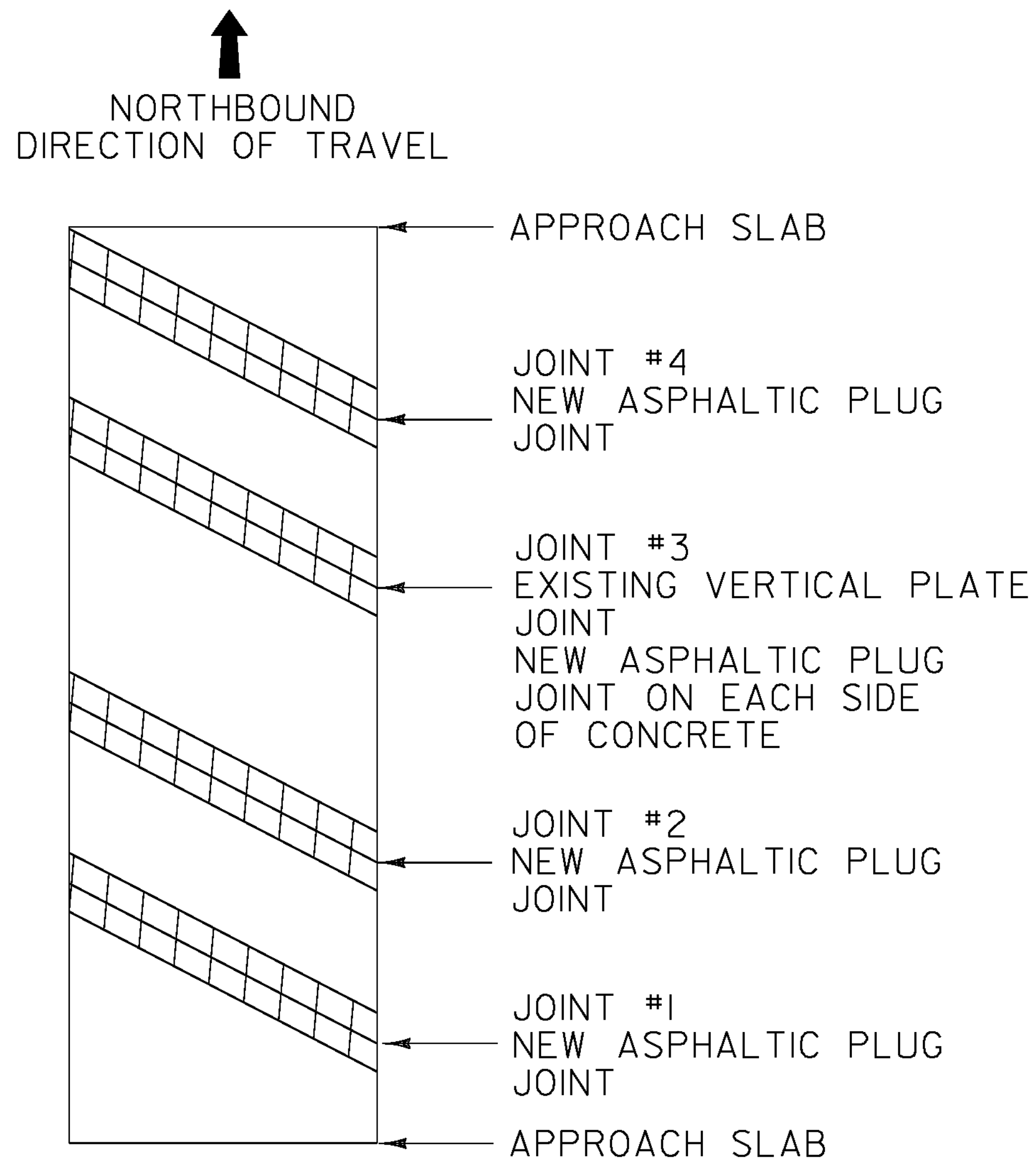
MM 98.433

LENGTH OF ASPHALTIC PLUG JOINTS:

JOINT #1 - 40'

JOINT #2 - 40' X 2 = 80'

TOTAL = 120'



**BRIDGE 63N**

MM 103.504

LENGTH OF ASPHALTIC PLUG JOINTS:

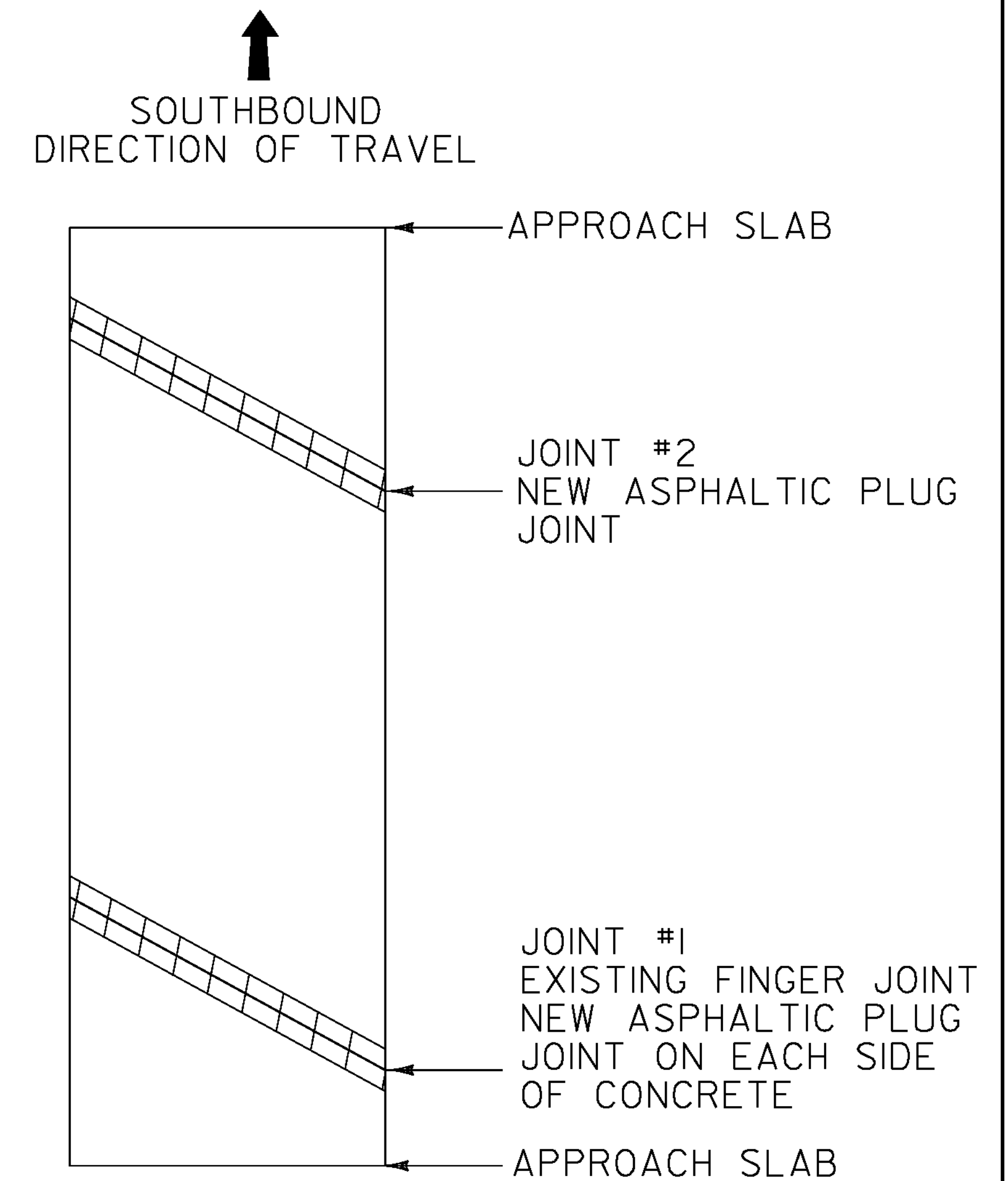
JOINT #1 = 45'

JOINT #2 = 45'

JOINT #3 = 45' X 2 = 90'

JOINT #4 = 45'

TOTAL = 225'



**BRIDGE 61S**

MM 98.433

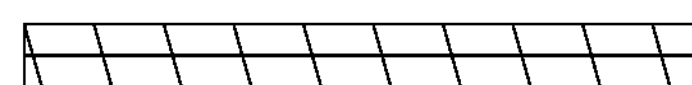
LENGTH OF ASPHALTIC PLUG JOINTS:

JOINT #1 - 40' X 2 = 80'

JOINT #2 - 40'

TOTAL = 120'

**LEGEND**



EXISTING BRIDGE JOINTS TO BE  
REPAIRED WITH ASPHALTIC PLUG JOINT

**BRIDGE  
DETAIL SHEET  
# 3**

PROJECT NAME: FAIRLEE - NEWBURY

PROJECT NUMBER: IM SURF (40)

FILE NAME: I3a236\pl3a236.dgn

PROJECT LEADER: M. FOWLER

DESIGNED BY: LOCKE

IPARM FILE NAME: pl3a236\_07.1

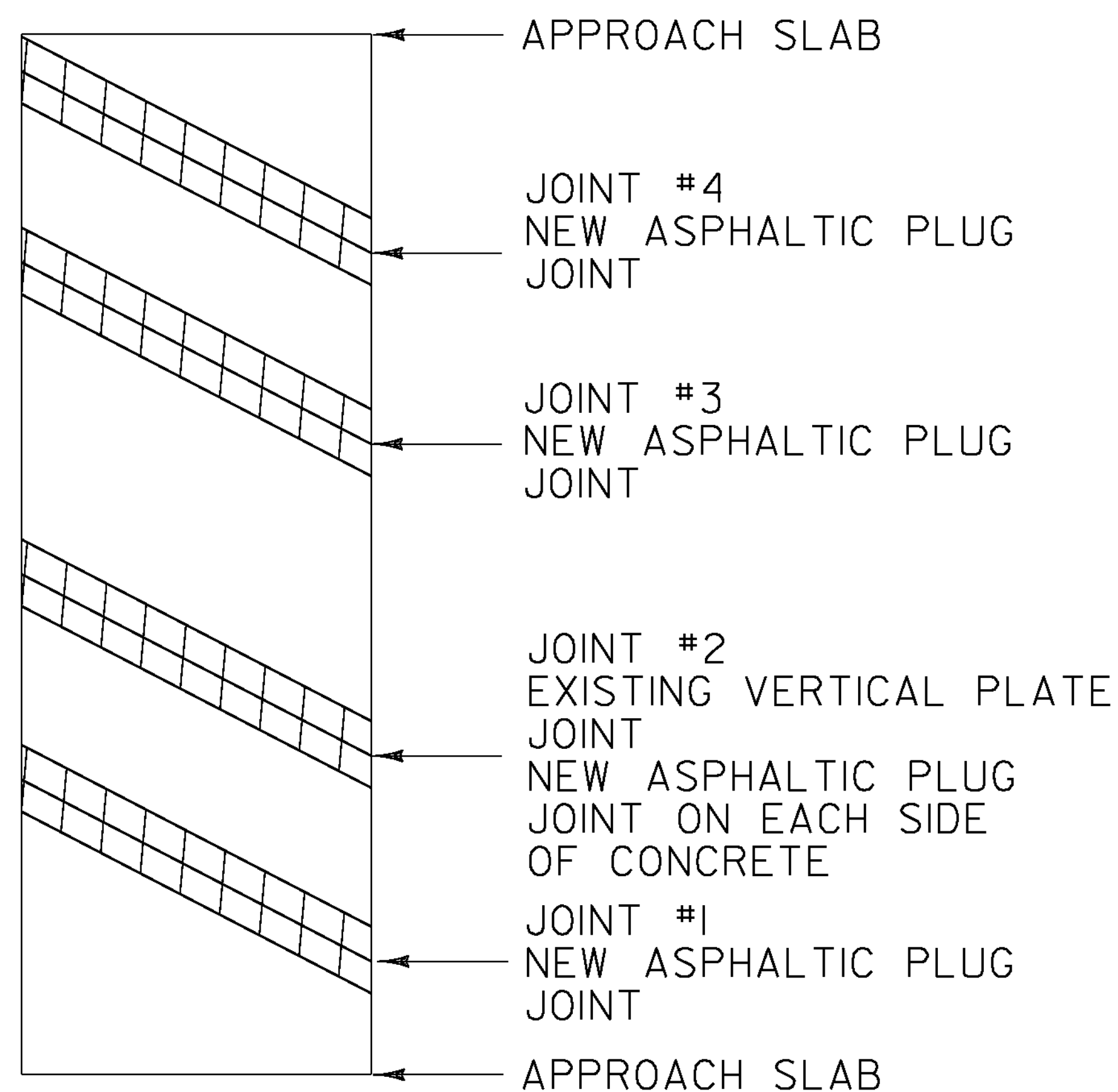
PLOT DATE: 20-FEB-2014

DRAWN BY: LOCKE

CHECKED BY: FOWLER

SHEET 7 OF 27

↑  
SOUTHBOUND  
DIRECTION OF TRAVEL



**BRIDGE 63S**

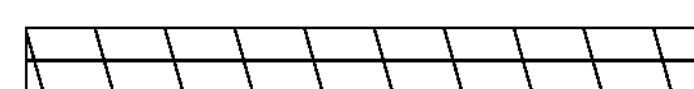
MM 103.504

LENGTH OF ASPHALTIC PLUG JOINTS:

JOINT #1 = 45'  
JOINT #2 = 45' X 2 = 90'  
JOINT #3 = 45'  
JOINT #4 = 45'

TOTAL = 225'

**LEGEND**



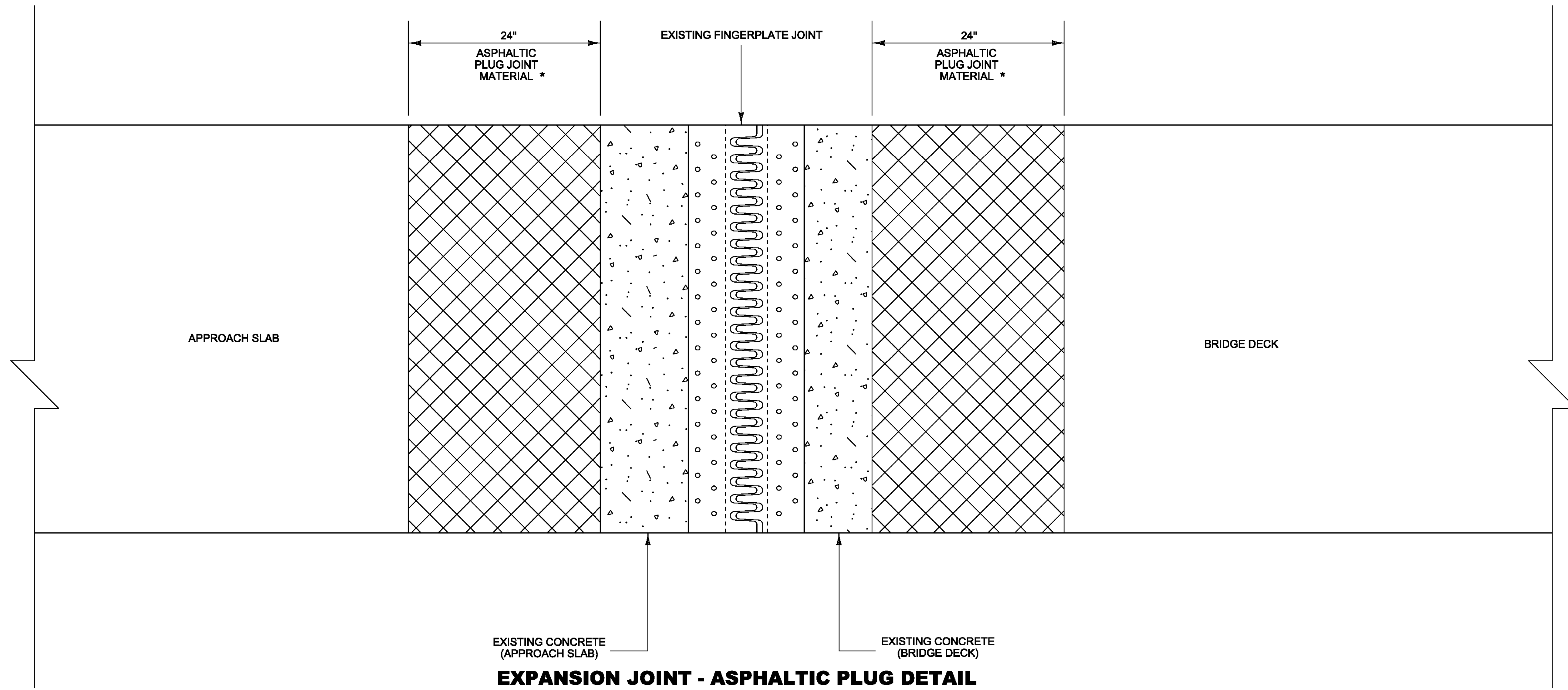
EXISTING BRIDGE JOINTS TO BE  
REPAIRED WITH ASPHALTIC PLUG JOINT

**BRIDGE  
DETAIL SHEET  
# 4**

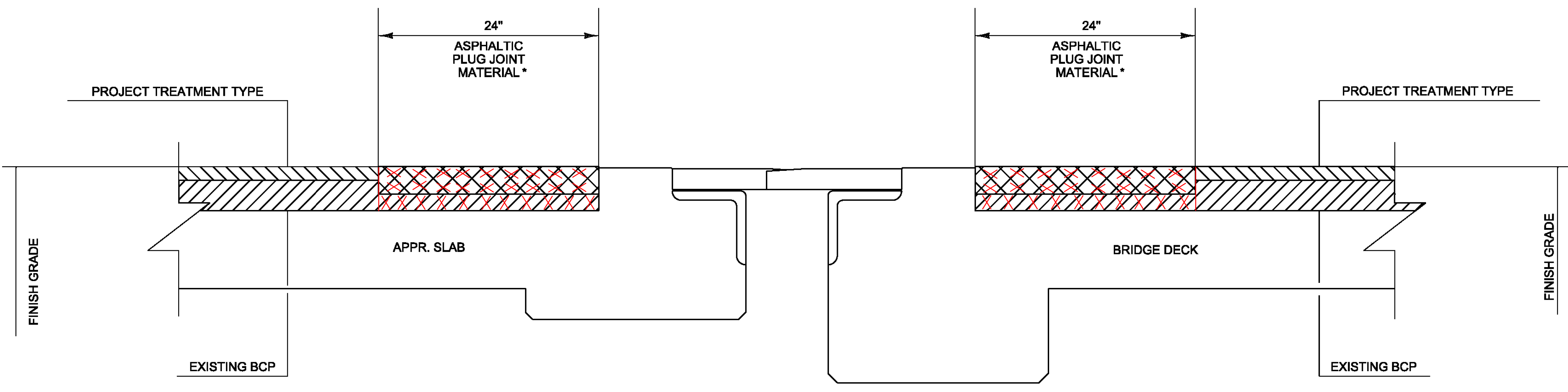
PROJECT NAME: FAIRLEE - NEWBURY  
PROJECT NUMBER: IM SURF (40)

FILE NAME: I3a236\pl3a236.dgn  
PROJECT LEADER: M. FOWLER  
DESIGNED BY: LOCKE  
IPARM FILE NAME: pl3a236\_08.1

PLOT DATE: 20-FEB-2014  
DRAWN BY: LOCKE  
CHECKED BY: FOWLER  
SHEET 8 OF 27



**EXPANSION JOINT - ASPHALTIC PLUG DETAIL  
PLAN VIEW  
(FINGER PLATE JOINT)**

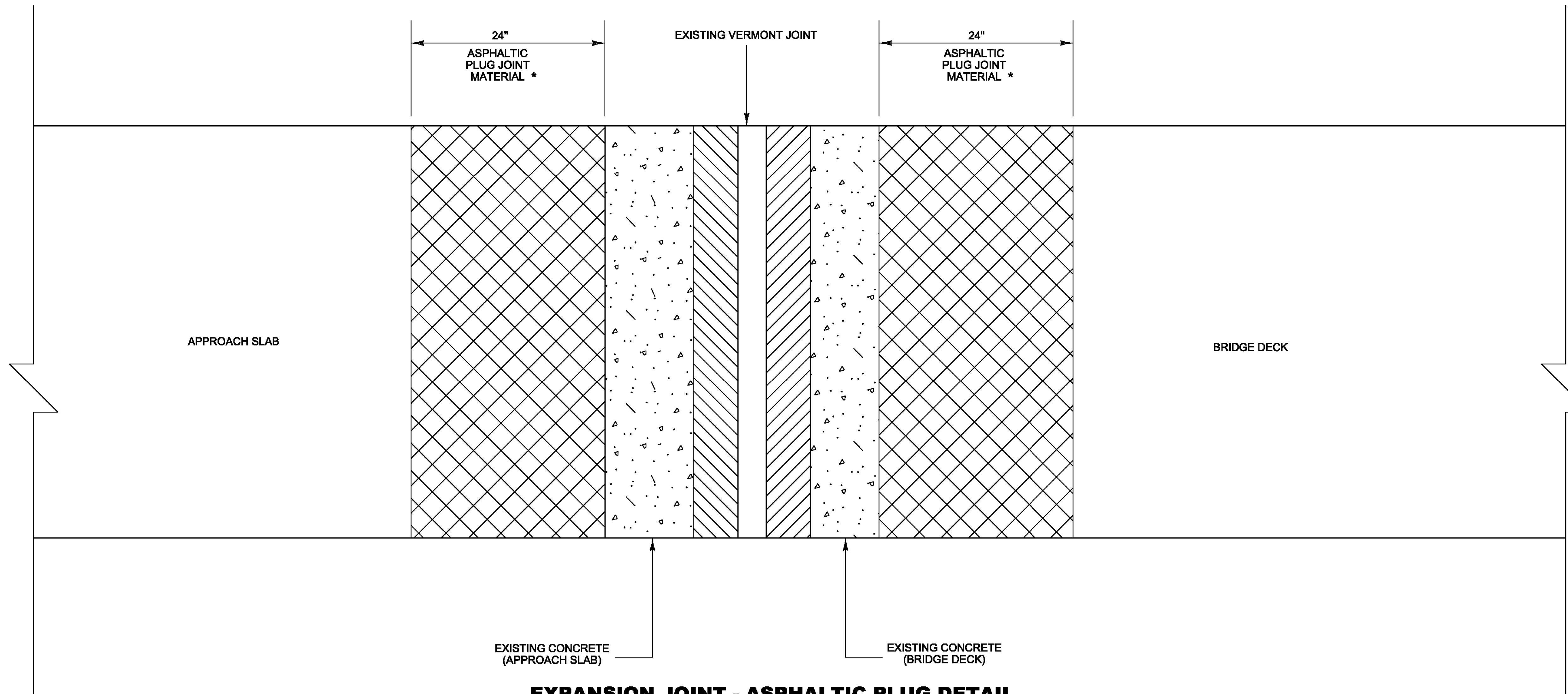


\* 2" MAXIMUM DEPTH UNLESS OTHERWISE DIRECTED BY THE ENGINEER

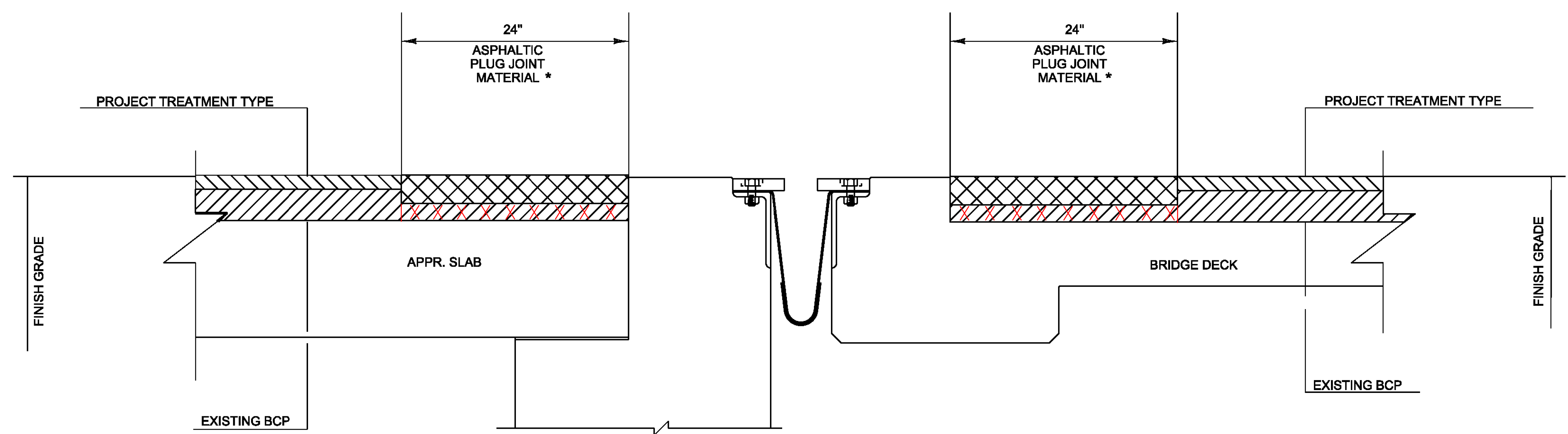
**EXPANSION JOINT - ASPHALTIC PLUG DETAIL  
CROSS SECTION VIEW  
(FINGER PLATE JOINT)**

NOT TO SCALE

|   |                                 |                        |
|---|---------------------------------|------------------------|
| <p><b>BRIDGE<br/>DETAIL SHEET<br/># 5</b></p> | PROJECT NAME: FAIRLEE - NEWBURY |                        |
|   | PROJECT NUMBER: IM SURF (40)    |                        |
|   | FILE NAME: i3a236\pl3a236.dgn   | PLOT DATE: 20-FEB-2014 |
|   | PROJECT LEADER: M. FOWLER       | DRAWN BY: LOCKE        |
| DESIGNED BY: LOCKE                            | CHECKED BY: FOWLER              |                        |
| IPARM FILE NAME: pl3a236_09.i                 | SHEET 9                         | OF 27                  |



**EXPANSION JOINT - ASPHALTIC PLUG DETAIL  
PLAN VIEW  
(VERMONT OR VERTICAL PLATE JOINT)**



\* 2" MAXIMUM DEPTH UNLESS OTHERWISE DIRECTED BY THE ENGINEER

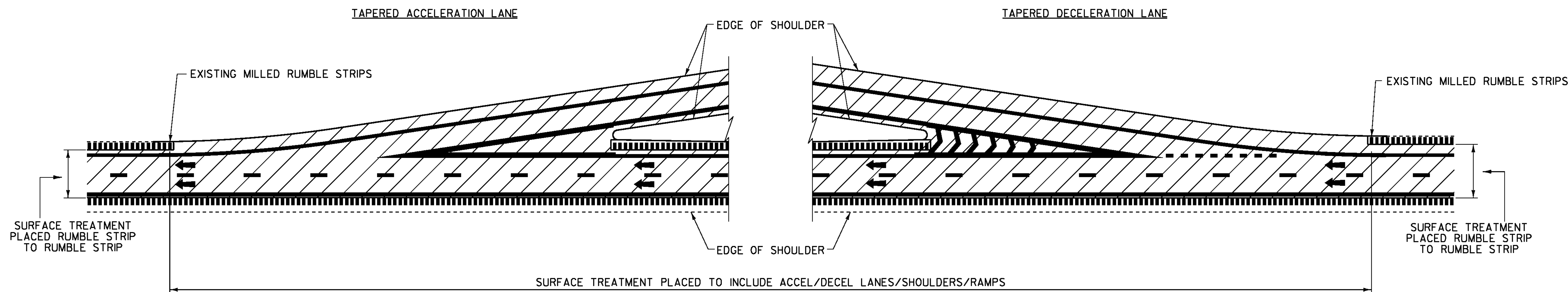
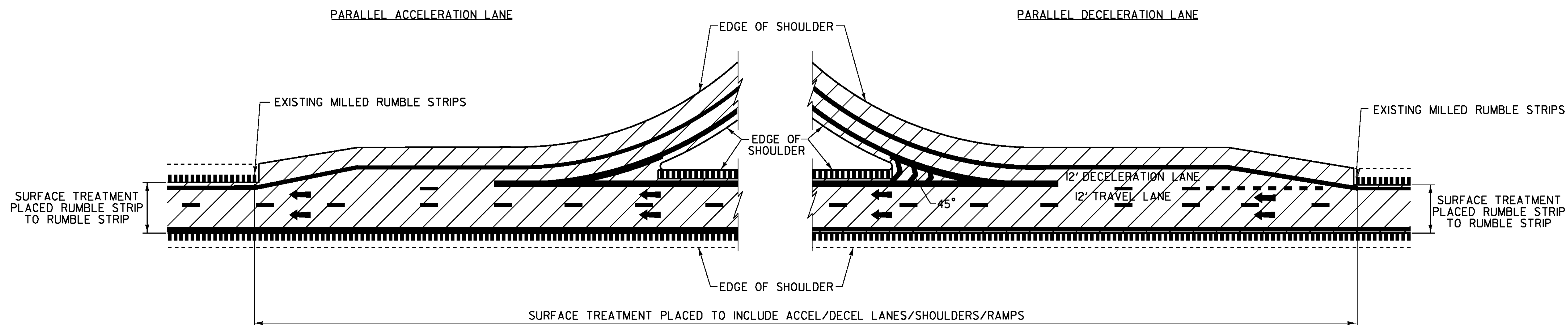
**EXPANSION JOINT - ASPHALTIC PLUG DETAIL  
CROSS SECTION VIEW  
(VERMONT OR VERTICAL PLATE JOINT)**

NOT TO SCALE

|  |                                 |
|--|---------------------------------|
| <b>BRIDGE<br/>DETAIL SHEET<br/># 6</b> | PROJECT NAME: FAIRLEE - NEWBURY |
|  | PROJECT NUMBER: IM SURF (40)    |
|  | FILE NAME: I3a236\pl3a236.dgn   |
| PROJECT LEADER: M. FOWLER              | PLOT DATE: 20-FEB-2014          |
| DESIGNED BY: LOCKE                     | DRAWN BY: LOCKE                 |
| IPARM FILE NAME: pl3a236_I0.I          | CHECKED BY: FOWLER              |
|  | SHEET 10 OF 27                  |

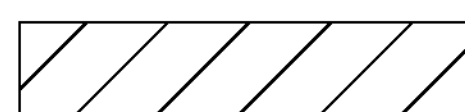
**TYPICAL INTERCHANGE CONSTRUCTION DETAILS # 1**

NOT TO SCALE



NOTES:  
1. LINE STRIPING SHOWN FOR REFERENCE ONLY.

**LEGEND**



SURFACE TREATMENT



DIRECTION OF TRAFFIC FLOW



EXISTING MILLED RUMBLE STRIPS

**TYPICAL INTERCHANGE CONSTRUCTION DETAILS # 1**

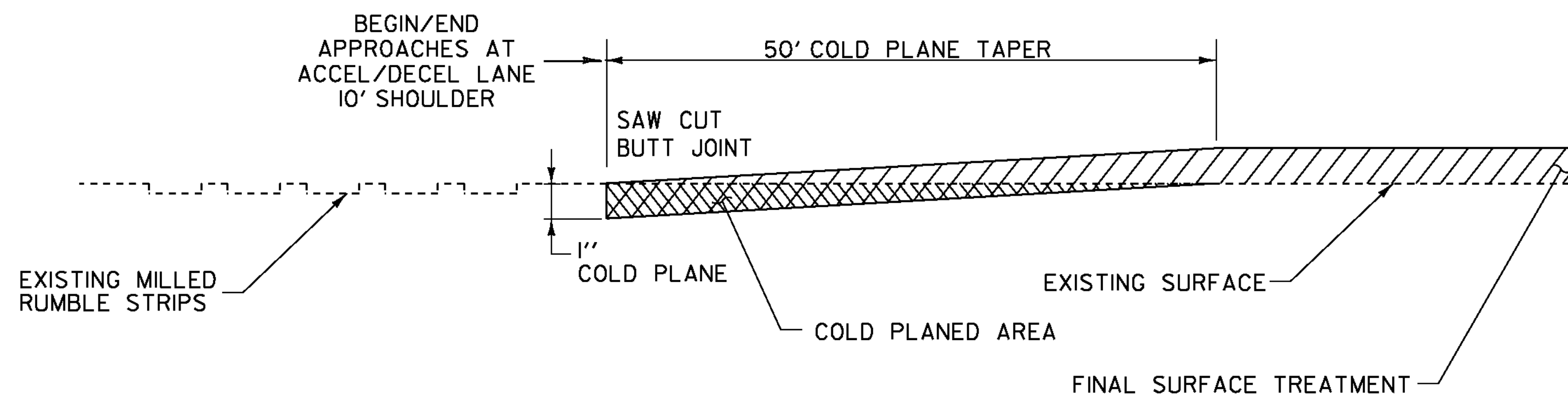
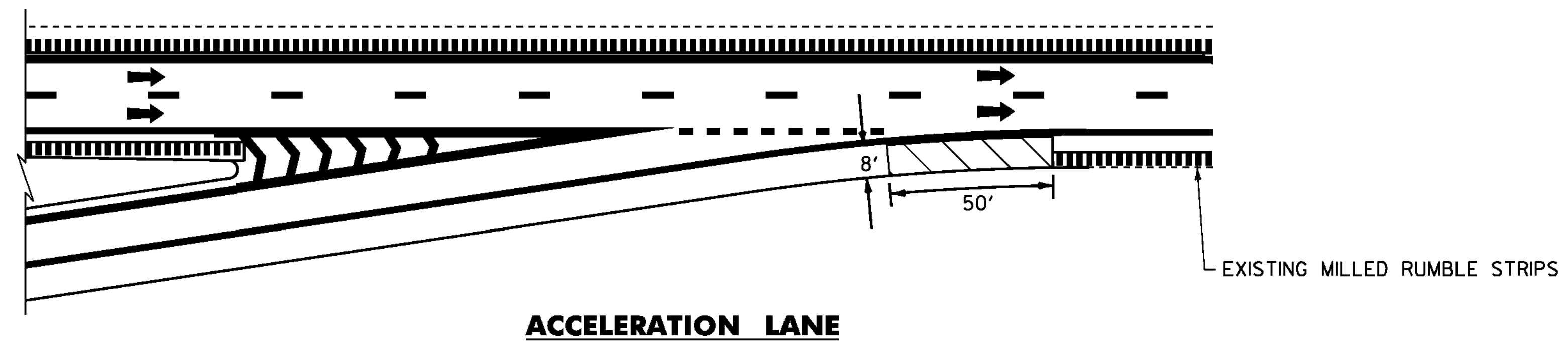
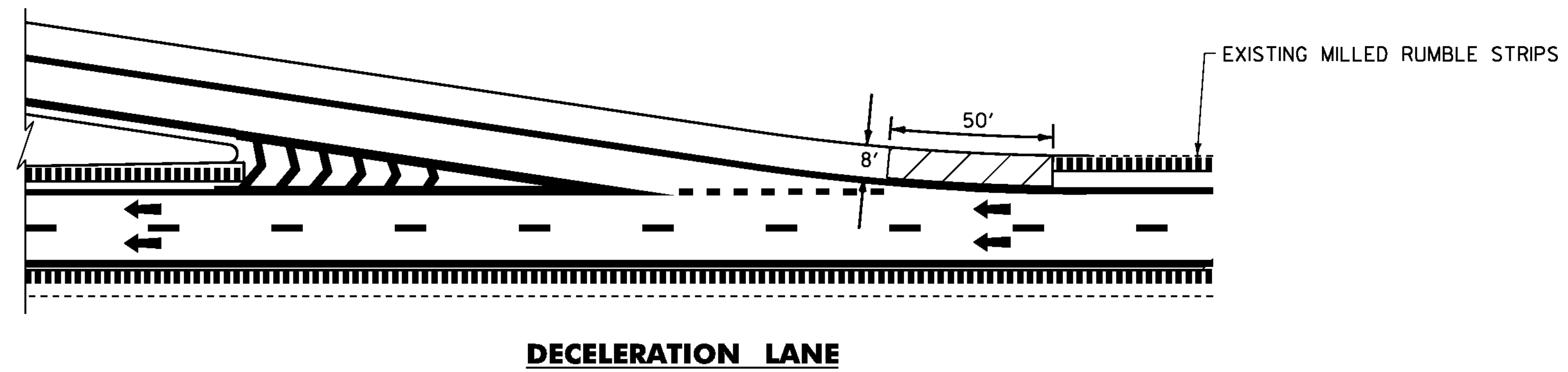
PROJECT NAME: FAIRLEE - NEWBURY  
PROJECT NUMBER: IM SURF (40)

FILE NAME: I3a236\pl3a236.dgn  
PROJECT LEADER: M. FOWLER  
DESIGNED BY: LOCKE  
IPARM FILE NAME: pl3a236\_1L1

PLOT DATE: 20-FEB-2014  
DRAWN BY: LOCKE  
CHECKED BY: FOWLER  
SHEET 11 OF 27

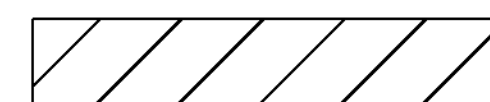


# TYPICAL INTERCHANGE CONSTRUCTION DETAILS # 2

NOT TO SCALE



**TYPICAL APPROACH AREA DETAIL AT ACCEL/DECEL LANE 10 FT SHOULDER**

**LEGEND**

-  AREA TO BE COLD PLANED
-  DIRECTION OF TRAFFIC FLOW
-  EXISTING MILLED RUMBLE STRIPS

**TYPICAL INTERCHANGE CONSTRUCTION DETAILS # 2**

|                                 |                        |
|---------------------------------|------------------------|
| PROJECT NAME: FAIRLEE - NEWBURY |                        |
| PROJECT NUMBER: IM SURF (40)    |                        |
| FILE NAME: I3a236\pl3a236.dgn   | PLOT DATE: 20-FEB-2014 |
| PROJECT LEADER: M. FOWLER       | DRAWN BY: LOCKE        |
| DESIGNED BY: LOCKE              | CHECKED BY: FOWLER     |
| IPARM FILE NAME: pl3a236_IIA.1  | SHEET IIA OF 27        |



# QUANTITY SHEET 2

**STATE OF VERMONT  
AGENCY OF TRANSPORTATION**

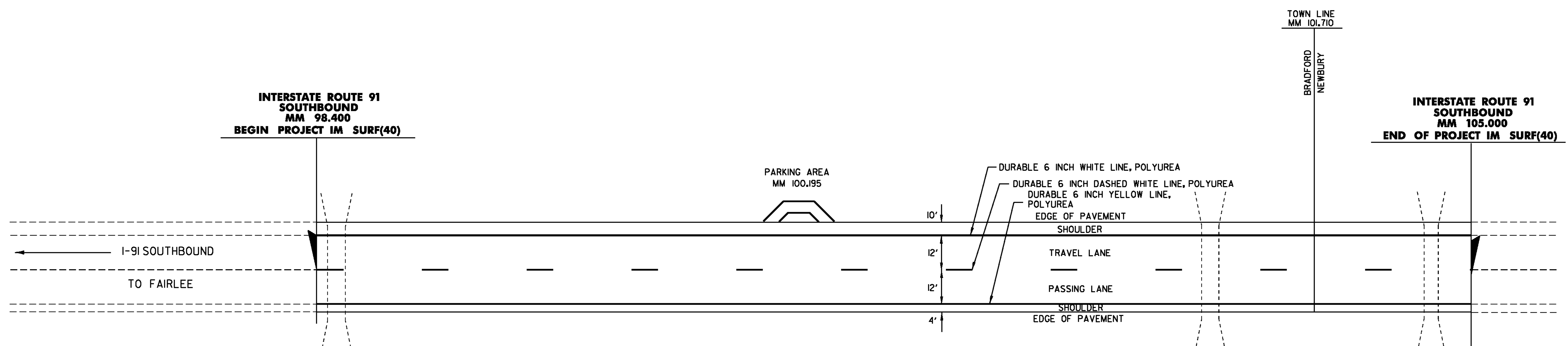
| SUMMARY OF ESTIMATED QUANTITIES |                |        |         |           |                        |      |  |          |          |
|---------------------------------|----------------|--------|---------|-----------|------------------------|------|--|----------|----------|
| ROADWAY ALT. A                  | ROADWAY ALT. B | BRIDGE | ROADWAY | FULL C.E. | QUANTITIES GRAND TOTAL | UNIT | ITEMS  | ITEM NO. | ROUNDING |
|                                 |                |        |         |           |                        |      | BEGIN ALTERNATE A  |          |          |
| 332,750                         |                |        |         |           | 332,750                | SY   | SPECIAL PROVISION (PAVER PLACED SURFACE TREATMENT, TYPE C)                                   | 900.675  | 219      |
|                                 |                |        |         |           |                        |      | END ALTERNATE A  |          |          |
|                                 |                |        |         |           |                        |      | BEGIN ALTERNATE B  |          |          |
|                                 | I              |        |         |           | I                      | LU   | AIR VOIDS PAY ADJUSTMENT (N.A.B.I.)  | 490.31   | -        |
|                                 | 19,500         |        |         |           | 19,500                 | TON  | SPECIAL PROVISION (6.3 MM POLYMER MODIFIED BITUMINOUS CONCRETE PAVEMENT)(SBR OR SBS POLYMER) | 900.680  | 103      |
|                                 | 2,250          |        |         |           | 2,250                  | CWT  | SPECIAL PROVISION (EMULSIFIED ASPHALT)(RS-IH OR CRS-IH)                                      | 900.683  | 13.92    |
|                                 |                |        |         |           |                        |      | END ALTERNATE B  |          |          |

| DETAILED SUMMARY OF QUANTITIES |      |  |
|--------------------------------|------|--|
| QUANTITIES                     | UNIT | ITEMS  |
|                                |      | ALTERNATE A  |
|                                |      | SPECIAL PROVISION (PAVER PLACED SURFACE TREATMENT, TYPE C) |
| 201,882                        | SY   | MAINLINE NORTHBOUND  |
| 107,615                        | SY   | MAINLINE SOUTHBOUND  |
| 1,326                          | SY   | BRIDGE 58 N & APPROACHES                                   |
| 892                            | SY   | BRIDGE 59 N & APPROACHES                                   |
| 984                            | SY   | BRIDGE 60 N & APPROACHES                                   |
| 1,039                          | SY   | BRIDGE 61 N & APPROACHES                                   |
| 840                            | SY   | BRIDGE 63 N & APPROACHES                                   |
| 916                            | SY   | BRIDGE 61S & APPROACHES                                    |
| 840                            | SY   | BRIDGE 63 S & APPROACHES                                   |
| 100                            | SY   | U TURNS  |
| 7,733                          | SY   | EXIT 16 RAMPS  |
| 4,933                          | SY   | NORTHBOUND REST AREA                                       |
| 3,431                          | SY   | SOUTHBOUND PARKING AREA                                    |
| 219                            | SY   | ROUNDING   |
| 332,750                        | SY   | TOTAL  |

| DETAILED SUMMARY OF QUANTITIES |      |  |
|--------------------------------|------|--|
| QUANTITIES                     | UNIT | ITEMS  |
|                                |      | ALTERNATE B  |
|                                |      | SPECIAL PROVISION (6.3 MM POLYMER MODIFIED BITUMINOUS CONCRETE PAVEMENT)(SBR OR SBS POLYMER) |
| 11,776                         | TON  | MAINLINE NORTHBOUND  |
| 6,278                          | TON  | MAINLINE SOUTHBOUND  |
| 77                             | TON  | BRIDGE 58 N & APPROACHES   |
| 52                             | TON  | BRIDGE 59 N & APPROACHES   |
| 57                             | TON  | BRIDGE 60 N & APPROACHES   |
| 61                             | TON  | BRIDGE 61 N & APPROACHES   |
| 49                             | TON  | BRIDGE 63 N & APPROACHES   |
| 53                             | TON  | BRIDGE 61S & APPROACHES  |
| 49                             | TON  | BRIDGE 63 S & APPROACHES   |
| 6                              | TON  | U TURNS  |
| 451                            | TON  | EXIT 16 RAMPS  |
| 288                            | TON  | NORTHBOUND REST AREA   |
| 200                            | TON  | SOUTHBOUND PARKING AREA  |
| 103                            | TON  | ROUNDING   |
| 19,500                         | TON  | TOTAL  |

PROJECT NAME: FAIRLEE - NEWBURY  
 PROJECT NUMBER: IM SURF (40)

FILE NAME: I3a236\pl3a236.dgn      PLOT DATE: 20-FEB-2014  
 PROJECT LEADER: M. FOWLER      DRAWN BY: LOCKE  
 DESIGNED BY: LOCKE      CHECKED BY: FOWLER  
 IPARM FILE NAME: pl3a236.13.1      SHEET 13 OF 27

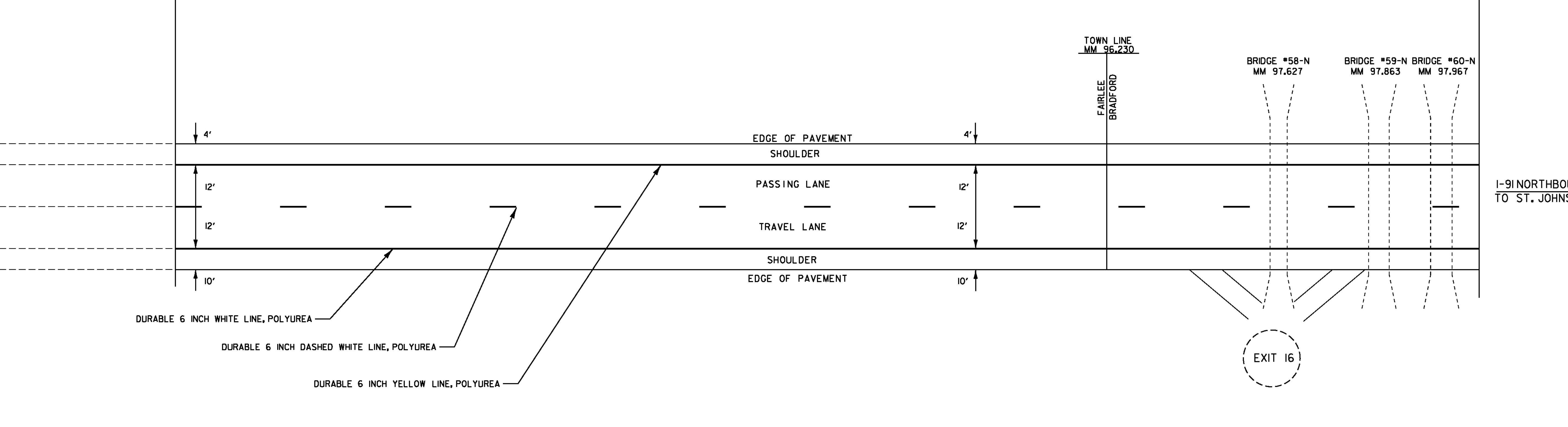


**TEMPORARY 6 INCH WHITE LINE, PAINT**  
 MM 98.400 - MM 105.000 SB ( SOLID LT)  
 MM 98.400 - MM 105.000 SB ( DASHED CL)  
 MM 92.480 - MM 98.000 NB ( SOLID RT)  
 MM 92.480 - MM 98.000 NB ( DASHED CL)

**TEMPORARY 6 INCH YELLOW LINE, PAINT**  
 MM 98.400 - MM 105.000 SB ( SOLID RT)  
 MM 92.480 - MM 98.000 NB ( SOLID LT)

**DURABLE 6 INCH WHITE LINE, POLYUREA**  
 MM 98.400 - MM 105.000 SB ( SOLID LT)  
 MM 98.400 - MM 105.000 SB ( DASHED CL)  
 MM 92.480 - MM 98.000 NB ( SOLID RT)  
 MM 92.480 - MM 98.000 NB ( DASHED CL)

**DURABLE 6 INCH YELLOW LINE, POLYUREA**  
 MM 98.400 - MM 105.000 SB ( SOLID RT)  
 MM 92.480 - MM 98.000 NB ( SOLID LT)



**INTERSTATE ROUTE 91  
 NORTHBOUND  
 MM 92.480  
 BEGIN PROJECT IM SURF(40)**

**INTERSTATE ROUTE 91  
 SOUTHBOUND  
 MM 98.400  
 BEGIN PROJECT IM SURF(40)**

**INTERSTATE ROUTE 91  
 SOUTHBOUND  
 MM 105.000  
 END OF PROJECT IM SURF(40)**

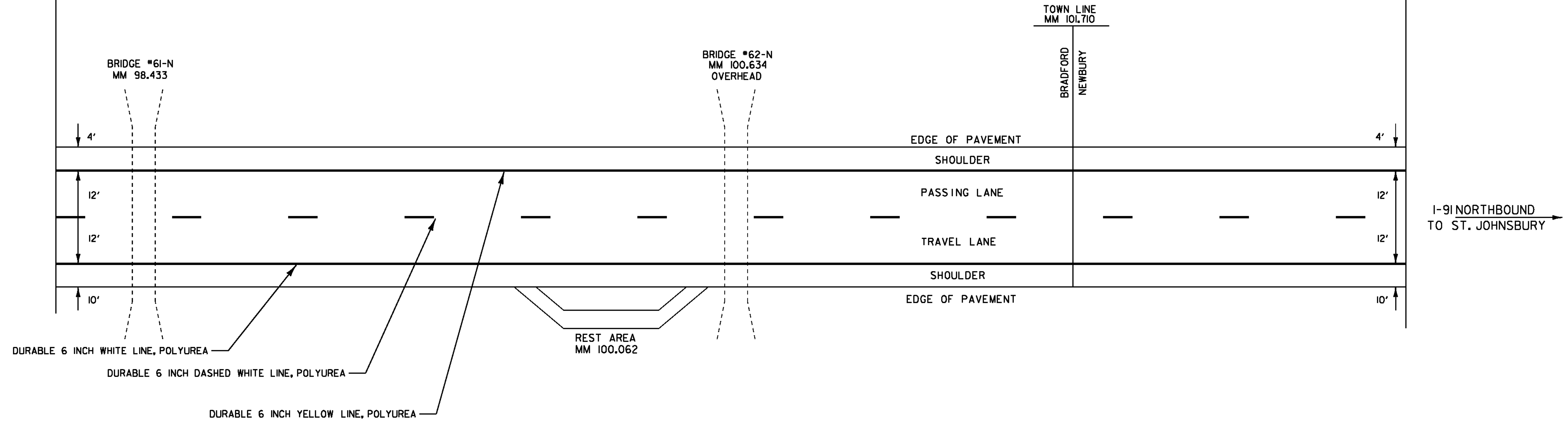
**MM 98.000  
 SEE NEXT SHEET**

|   |                                 |
|---|---------------------------------|
| <b>PAVEMENT<br/>MARKING<br/>DETAIL SHEET 1<br/>MAINLINE</b> | PROJECT NAME: FAIRLEE - NEWBURY |
|   | PROJECT NUMBER: IM SURF (40)    |
|   | FILE NAME: I3a236\pl3a236.dgn   |
|   | PLOT DATE: 20-FEB-2014          |
| PROJECT LEADER: M. FOWLER                                   | DRAWN BY: LOCKE                 |
| DESIGNED BY: LOCKE  | CHECKED BY: FOWLER              |
| IPARM FILE NAME: pl3a236_14.1                               | SHEET 14 OF 27                  |

NOT TO SCALE

MM 98.000  
SEE PREVIOUS SHEET

MM 103.000  
SEE BELOW



TEMPORARY 6 INCH WHITE LINE, PAINT  
MM 98.000 - MM 105.030 NB (SOLID RT)  
MM 98.000 - MM 105.030 NB (DASHED CL)

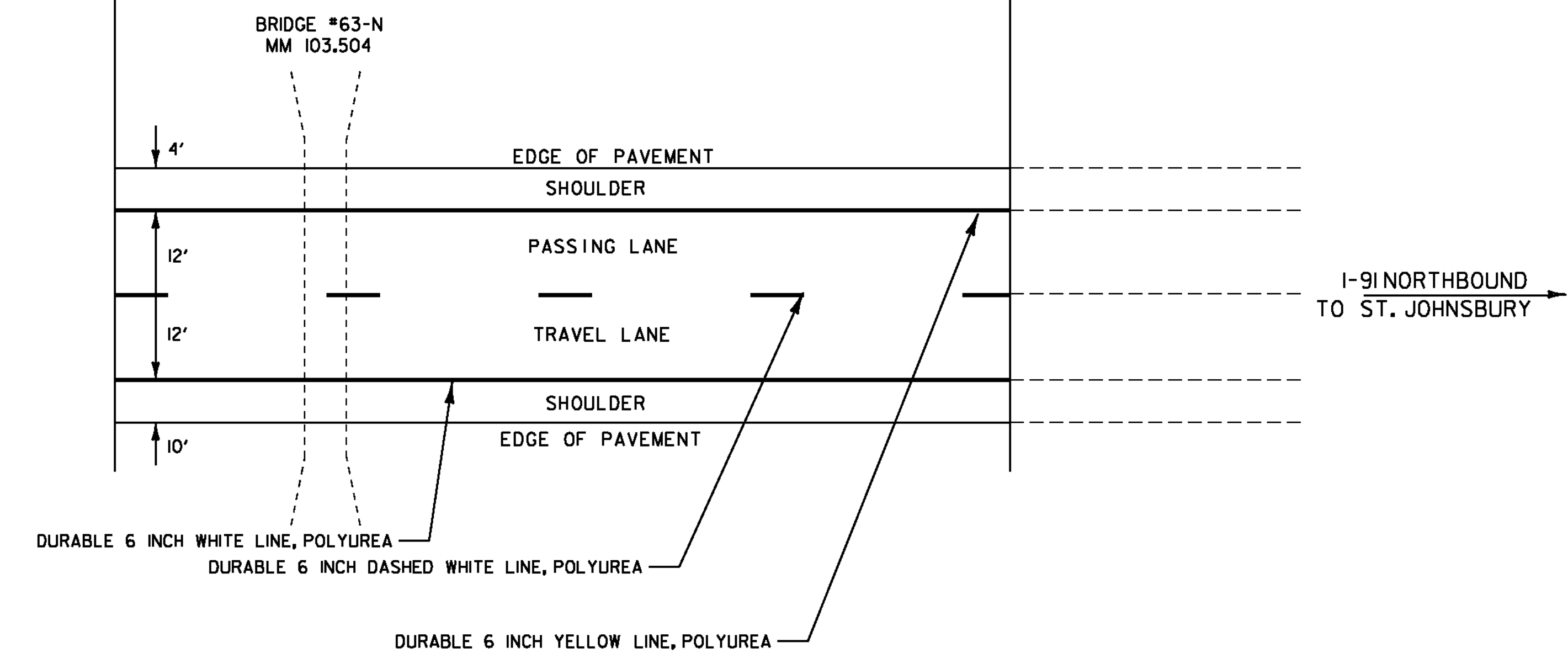
TEMPORARY 6 INCH YELLOW LINE, PAINT  
MM 98.000 - MM 105.030 NB (SOLID LT)

DURABLE 6 INCH WHITE LINE, POLYUREA  
MM 98.000 - MM 105.030 NB (SOLID RT)  
MM 98.000 - MM 105.030 NB (DASHED CL)

DURABLE 6 INCH YELLOW LINE, POLYUREA  
MM 98.000 - MM 105.030 NB (SOLID LT)

MM 103.000  
SEE ABOVE

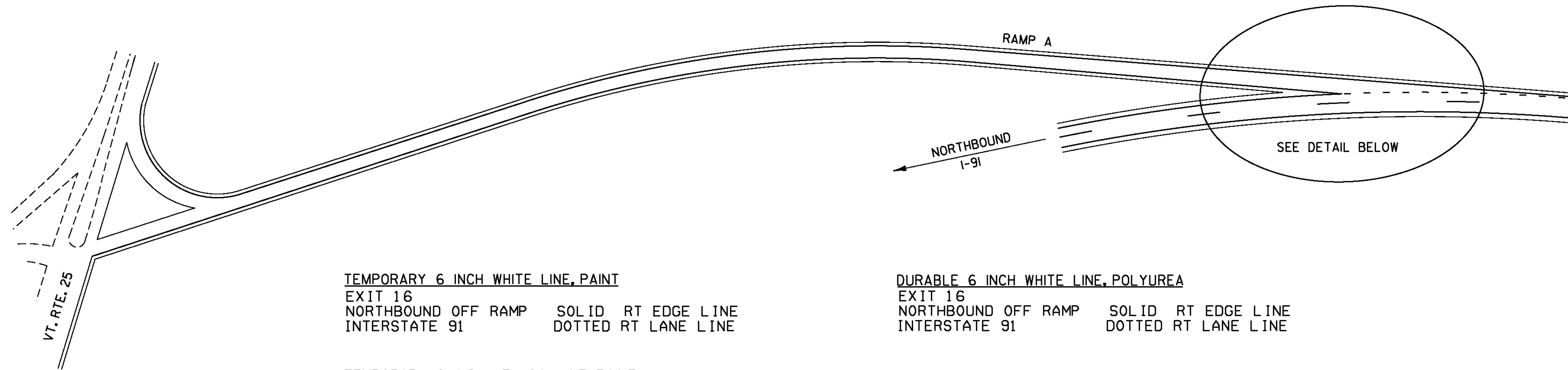
INTERSTATE ROUTE 91  
NORTHBOUND  
MM 105.030  
END PROJECT IM SURF(40)



NOT TO SCALE

|   |                  |                    |
|---|------------------|--------------------|
| <b>PAVEMENT MARKING<br/>DETAIL SHEET 2<br/>MAINLINE</b> | PROJECT NAME:    | FAIRLEE - NEWBURY  |
|   | PROJECT NUMBER:  | IM SURF (40)       |
|   | FILE NAME:       | I3a236\pl3a236.dgn |
|   | PLOT DATE:       | 20-FEB-2014        |
|   | PROJECT LEADER:  | M. FOWLER          |
|   | DESIGNED BY:     | LOCKE              |
|   | IPARM FILE NAME: | pl3a236_i5.t       |
|   | DRAWN BY:        | LOCKE              |
|   | CHECKED BY:      | FOWLER             |
|   | SHEET            | 15 OF 27           |

# EXIT 16 - RAMP A NORTHBOUND OFF RAMP



TEMPORARY 6 INCH WHITE LINE, PAINT  
 EXIT 16  
 NORTHBOUND OFF RAMP SOLID RT EDGE LINE  
 INTERSTATE 91 DOTTED RT LANE LINE

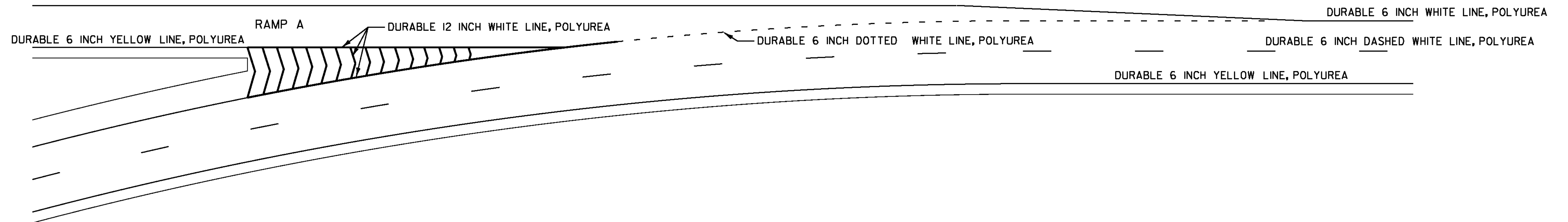
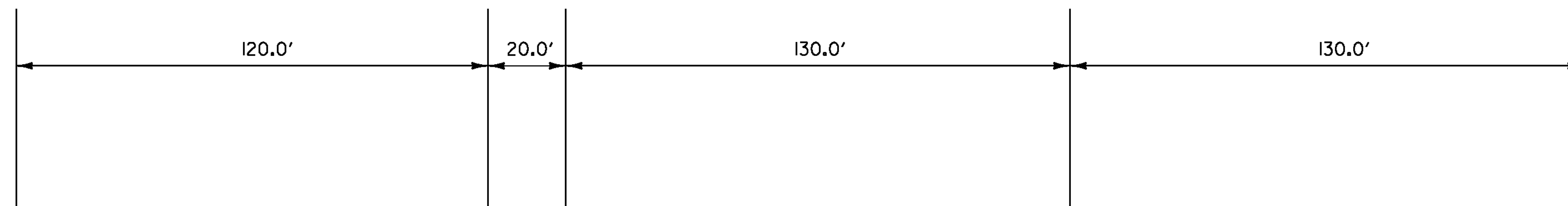
DURABLE 6 INCH WHITE LINE, POLYUREA  
 EXIT 16  
 NORTHBOUND OFF RAMP SOLID RT EDGE LINE  
 INTERSTATE 91 DOTTED RT LANE LINE

TEMPORARY 6 INCH YELLOW LINE, PAINT  
 EXIT 16  
 NORTHBOUND OFF RAMP SOLID LT EDGE LINE

DURABLE 6 INCH YELLOW LINE, POLYUREA  
 EXIT 16  
 NORTHBOUND OFF RAMP SOLID LT EDGE LINE

TEMPORARY 12 INCH WHITE LINE, PAINT  
 EXIT 16  
 NORTHBOUND OFF RAMP SOLID LT GORE AREA  
 INTERSTATE 91 SOLID RT GORE AREA

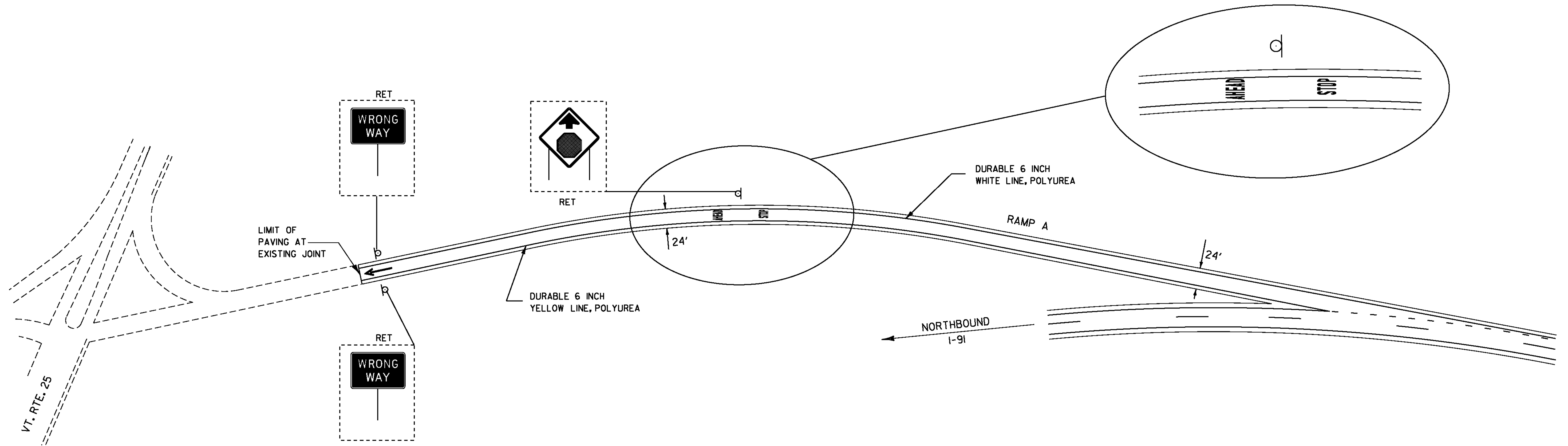
DURABLE 12 INCH WHITE LINE, POLYUREA  
 EXIT 16  
 NORTHBOUND OFF RAMP SOLID LT GORE AREA  
 INTERSTATE 91 SOLID RT GORE AREA



NOT TO SCALE

|   |                                 |
|---|---------------------------------|
| <b>PAVEMENT<br/>MARKING<br/>DETAIL SHEET 3<br/>EXIT 16 NB</b> | PROJECT NAME: FAIRLEE - NEWBURY |
|   | PROJECT NUMBER: IM SURF (40)    |
|   | FILE NAME: I3a236\pl3a236.dgn   |
| PROJECT LEADER: M. FOWLER                                     | PLOT DATE: 20-FEB-2014          |
| DESIGNED BY: LOCKE  | DRAWN BY: LOCKE                 |
| IPARM FILE NAME: pl3a236_16.1                                 | CHECKED BY: FOWLER              |
|   | SHEET 16 OF 27                  |

**EXIT 16 - RAMP A  
NORTHBOUND OFF RAMP**



TEMPORARY 6 INCH WHITE LINE, PAINT  
EXIT 16  
NORTHBOUND OFF RAMP SOLID RT EDGE LINE

TEMPORARY 6 INCH YELLOW LINE, PAINT  
EXIT 16  
NORTHBOUND OFF RAMP SOLID LT EDGE LINE

TEMPORARY LETTER OR SYMBOL, PAINT  
EXIT 16  
NORTHBOUND OFF RAMP "STOP"  
NORTHBOUND OFF RAMP "AHEAD"  
NORTHBOUND OFF RAMP →

DURABLE 6 INCH WHITE LINE, POLYUREA  
EXIT 16  
NORTHBOUND OFF RAMP SOLID RT EDGE LINE

DURABLE 6 INCH YELLOW LINE, POLYUREA  
EXIT 16  
NORTHBOUND OFF RAMP SOLID LT EDGE LINE

DURABLE LETTER OR SYMBOL, POLYUREA  
EXIT 16  
NORTHBOUND OFF RAMP "STOP"  
NORTHBOUND OFF RAMP "AHEAD"  
NORTHBOUND OFF RAMP →

NOT TO SCALE

|   |  |
|---|--|
| <b>PAVEMENT<br/>MARKING<br/>DETAIL SHEET 4<br/>EXIT 16 NB</b> | PROJECT NAME: FAIRLEE - NEWBURY  |
|   | PROJECT NUMBER: IM SURF (40)   |
|   | FILE NAME: pl3a236.dgn<br>PROJECT LEADER: M. FOWLER<br>DESIGNED BY: LOCKE<br>IPARM FILE NAME: pl3a236_17.1 |
|   | PLOT DATE: 20-FEB-2014<br>DRAWN BY: LOCKE<br>CHECKED BY: FOWLER<br>SHEET 17 OF 27                          |

## EXIT 16 - RAMP B NORTHBOUND ON RAMP

TEMPORARY 6 INCH WHITE LINE, PAINT  
 EXIT 16  
 NORTHBOUND ON RAMP SOLID RT EDGE LINE  
 INTERSTATE 91 DOTTED RT LANE LINE

DURABLE 6 INCH WHITE LINE, POLYUREA  
 EXIT 16  
 NORTHBOUND ON RAMP SOLID RT EDGE LINE  
 INTERSTATE 91 DOTTED RT LANE LINE

TEMPORARY 6 INCH YELLOW LINE, PAINT  
 EXIT 16  
 NORTHBOUND ON RAMP SOLID LT EDGE LINE

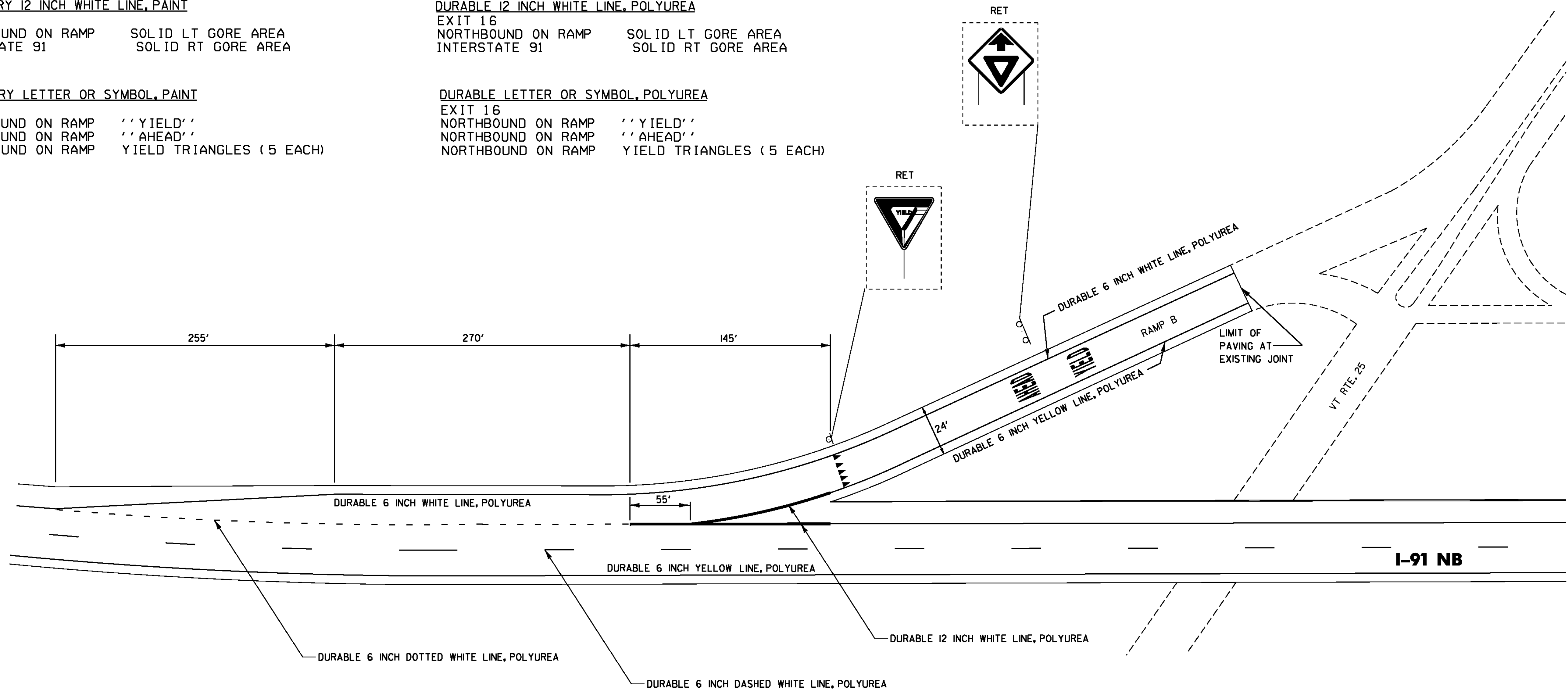
DURABLE 6 INCH YELLOW LINE, POLYUREA  
 EXIT 16  
 NORTHBOUND ON RAMP SOLID LT EDGE LINE

TEMPORARY 12 INCH WHITE LINE, PAINT  
 EXIT 16  
 NORTHBOUND ON RAMP SOLID LT GORE AREA  
 INTERSTATE 91 SOLID RT GORE AREA

DURABLE 12 INCH WHITE LINE, POLYUREA  
 EXIT 16  
 NORTHBOUND ON RAMP SOLID LT GORE AREA  
 INTERSTATE 91 SOLID RT GORE AREA

TEMPORARY LETTER OR SYMBOL, PAINT  
 EXIT 16  
 NORTHBOUND ON RAMP 'YIELD'  
 NORTHBOUND ON RAMP 'AHEAD'  
 NORTHBOUND ON RAMP YIELD TRIANGLES (5 EACH)

DURABLE LETTER OR SYMBOL, POLYUREA  
 EXIT 16  
 NORTHBOUND ON RAMP 'YIELD'  
 NORTHBOUND ON RAMP 'AHEAD'  
 NORTHBOUND ON RAMP YIELD TRIANGLES (5 EACH)

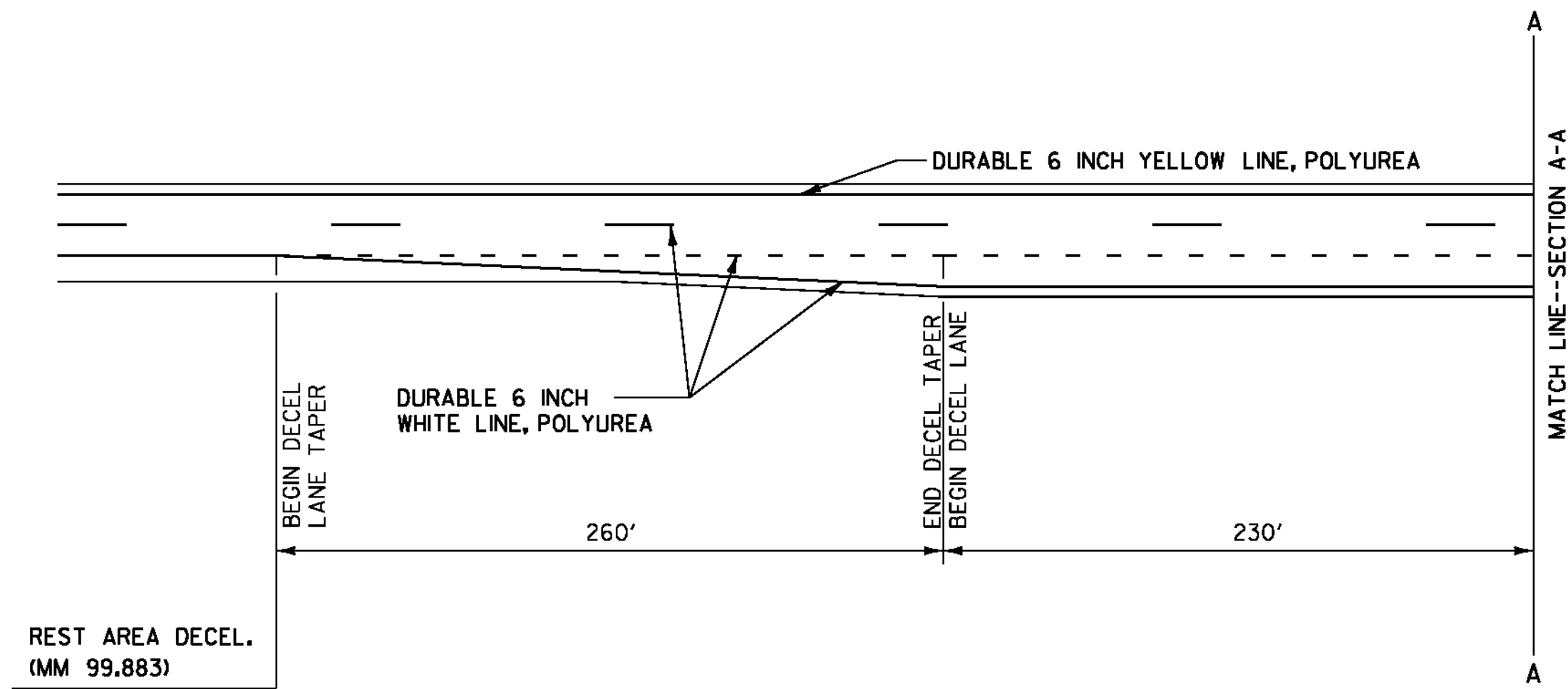


NOT TO SCALE

|   |   |                                      |
|---|---|--------------------------------------|
| <b>PAVEMENT<br/>MARKING<br/>DETAIL SHEET 5<br/>EXIT 16 NB</b> | PROJECT NAME: FAIRLEE - NEWBURY   | PLOT DATE: 20-FEB-2014               |
|   | PROJECT NUMBER: IM SURF (40)  | DRAWN BY: LOCKE                      |
|   | FILE NAME: I3a236\pl3a236.dgn<br>PROJECT LEADER: M. FOWLER<br>DESIGNED BY: LOCKE<br>IPARM FILE NAME: pl3a236_18.t | CHECKED BY: FOWLER<br>SHEET 18 OF 27 |

# REST AREA NORTHBOUND

MM 100.062



TEMPORARY 6 INCH WHITE LINE, PAINT  
 REST AREA  
 NORTHBOUND OFF RAMP SOLID RT EDGE LINE  
 INTERSTATE 91 DOTTED RT LANE LINE  
 NORTHBOUND ON RAMP SOLID RT EDGE LINE  
 INTERSTATE 91 DOTTED RT LANE LINE

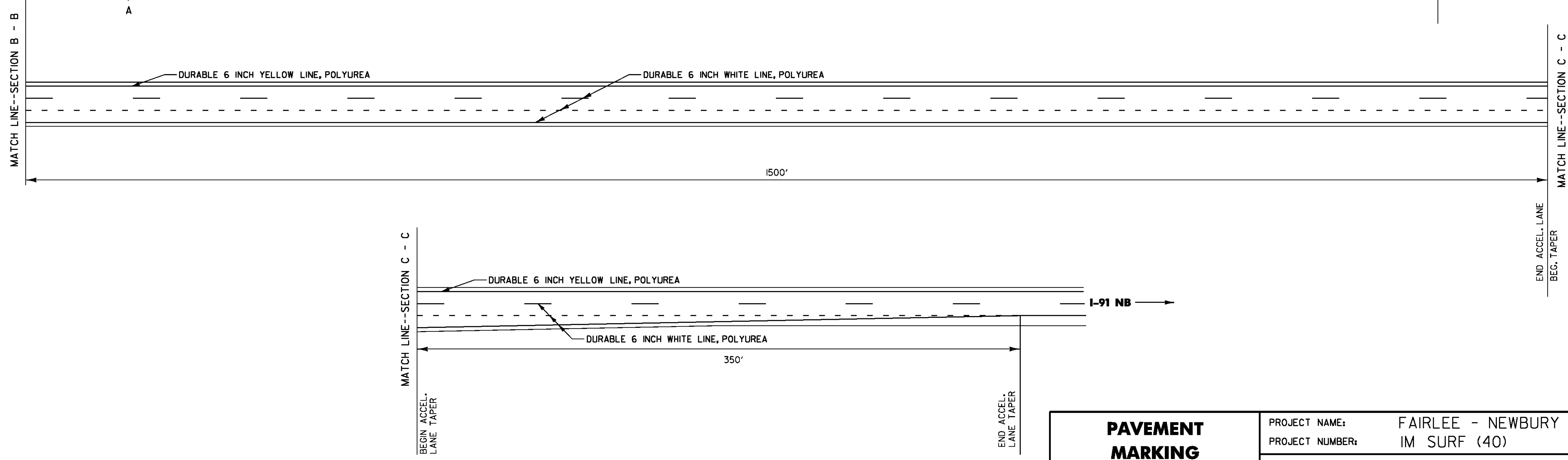
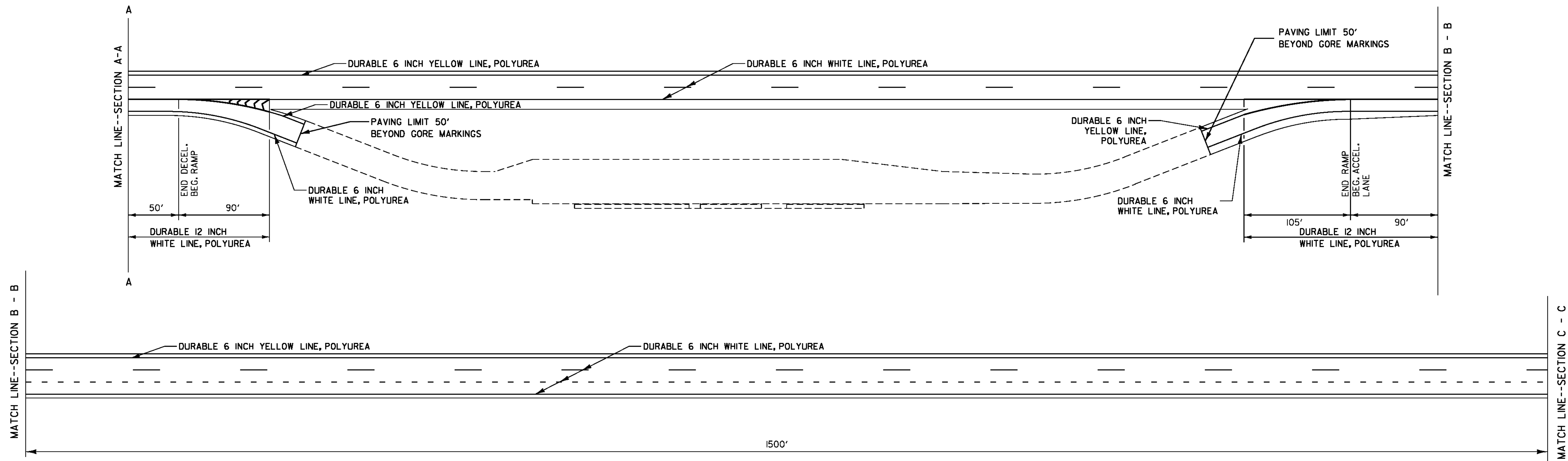
TEMPORARY 6 INCH YELLOW LINE, PAINT  
 REST AREA  
 NORTHBOUND OFF RAMP SOLID LT EDGE LINE  
 NORTHBOUND ON RAMP SOLID LT EDGE LINE

TEMPORARY 12 INCH WHITE LINE, PAINT  
 REST AREA  
 NORTHBOUND OFF RAMP SOLID LT GORE AREA  
 INTERSTATE 91 SOLID RT GORE AREA  
 NORTHBOUND ON RAMP SOLID LT GORE AREA  
 INTERSTATE 91 SOLID RT GORE AREA

DURABLE 6 INCH WHITE LINE, POLYUREA  
 REST AREA  
 NORTHBOUND OFF RAMP SOLID RT EDGE LINE  
 INTERSTATE 91 DOTTED RT LANE LINE  
 NORTHBOUND ON RAMP SOLID RT EDGE LINE  
 INTERSTATE 91 DOTTED RT LANE LINE

DURABLE 6 INCH YELLOW LINE, POLYUREA  
 REST AREA  
 NORTHBOUND OFF RAMP SOLID LT EDGE LINE  
 NORTHBOUND ON RAMP SOLID LT EDGE LINE

DURABLE 12 INCH WHITE LINE, POLYUREA  
 REST AREA  
 NORTHBOUND OFF RAMP SOLID LT GORE AREA  
 INTERSTATE 91 SOLID RT GORE AREA  
 NORTHBOUND ON RAMP SOLID LT GORE AREA  
 INTERSTATE 91 SOLID RT GORE AREA

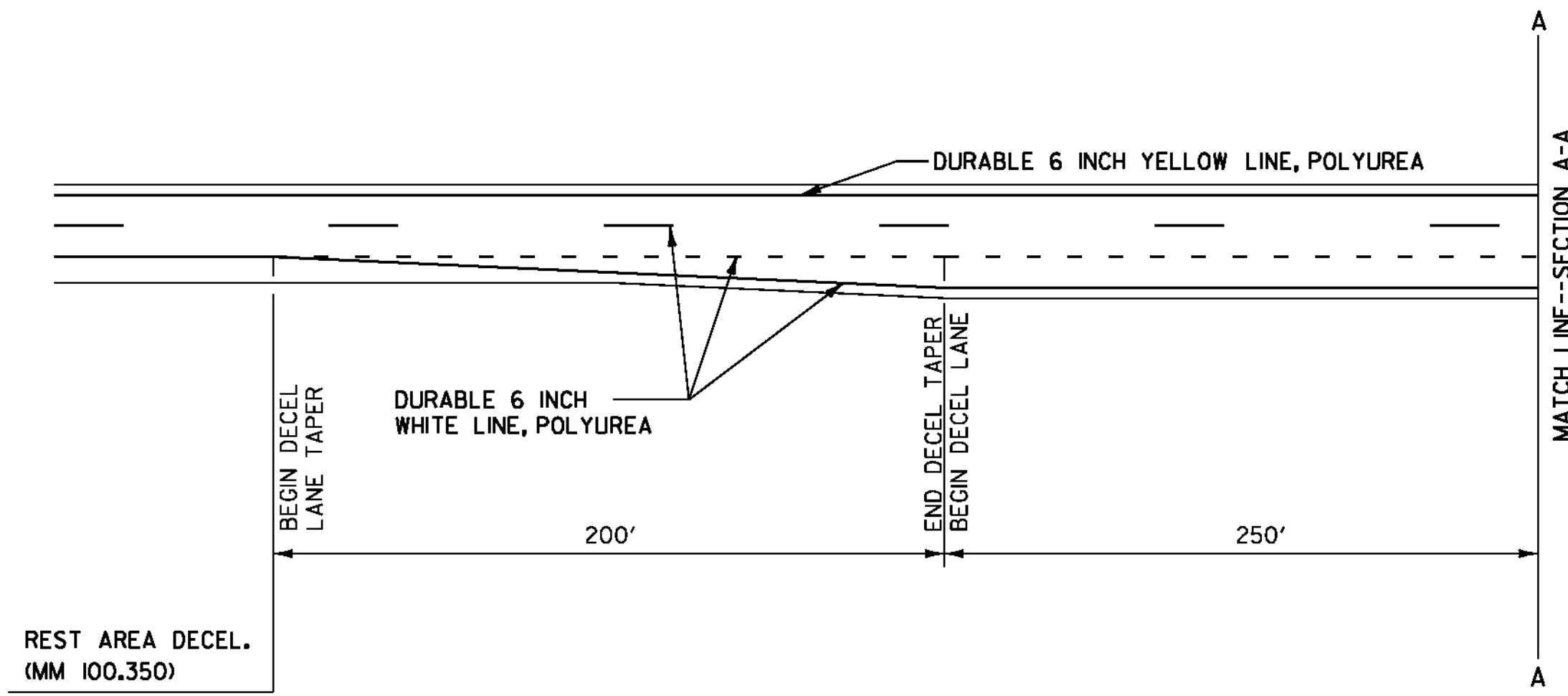


NOT TO SCALE

|   |                                 |
|---|---------------------------------|
| <b>PAVEMENT<br/>MARKING<br/>DETAIL SHEET 6<br/>REST AREA NB</b> | PROJECT NAME: FAIRLEE - NEWBURY |
|   | PROJECT NUMBER: IM SURF (40)    |
|   | FILE NAME: I3a236\pi3a236.dgn   |
| PROJECT LEADER: M. FOWLER                                       | PLOT DATE: 20-FEB-2014          |
| DESIGNED BY: LOCKE  | DRAWN BY: LOCKE                 |
| IPARM FILE NAME: pi3a236_19.1                                   | CHECKED BY: FOWLER              |
|   | SHEET 19 OF 27                  |

# PARKING AREA SOUTHBOUND

MM 100.195



**TEMPORARY 6 INCH WHITE LINE, PAINT**  
 PARKING AREA  
 SOUTHBOUND OFF RAMP SOLID RT EDGE LINE  
 INTERSTATE 91 DOTTED RT LANE LINE  
 SOUTHBOUND ON RAMP SOLID RT EDGE LINE  
 INTERSTATE 91 DOTTED RT LANE LINE

**DURABLE 6 INCH WHITE LINE, POLYUREA**  
 PARKING AREA  
 SOUTHBOUND OFF RAMP SOLID RT EDGE LINE  
 INTERSTATE 91 DOTTED RT LANE LINE  
 SOUTHBOUND ON RAMP SOLID RT EDGE LINE  
 INTERSTATE 91 DOTTED RT LANE LINE

**TEMPORARY 6 INCH YELLOW LINE, PAINT**  
 PARKING AREA  
 SOUTHBOUND OFF RAMP SOLID LT EDGE LINE  
 SOUTHBOUND ON RAMP SOLID LT EDGE LINE

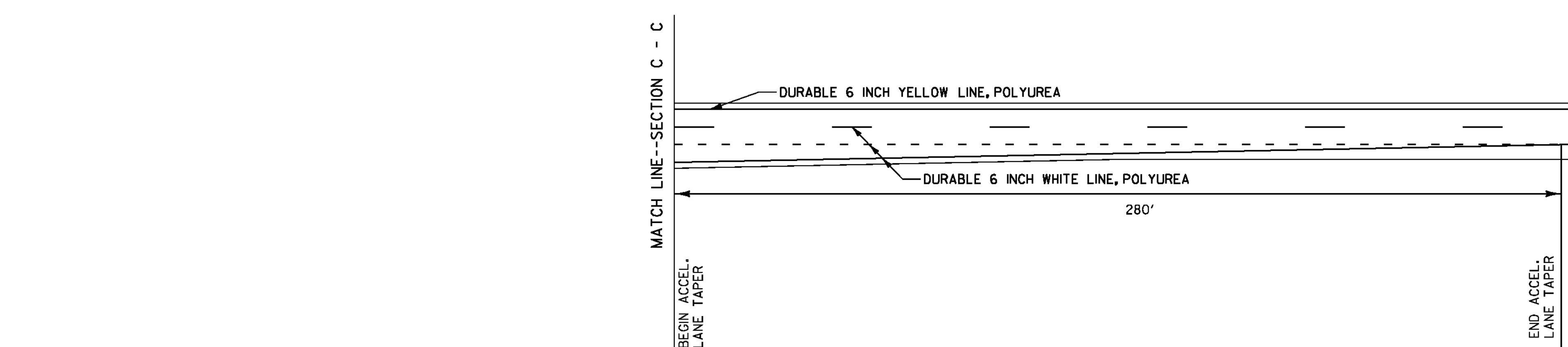
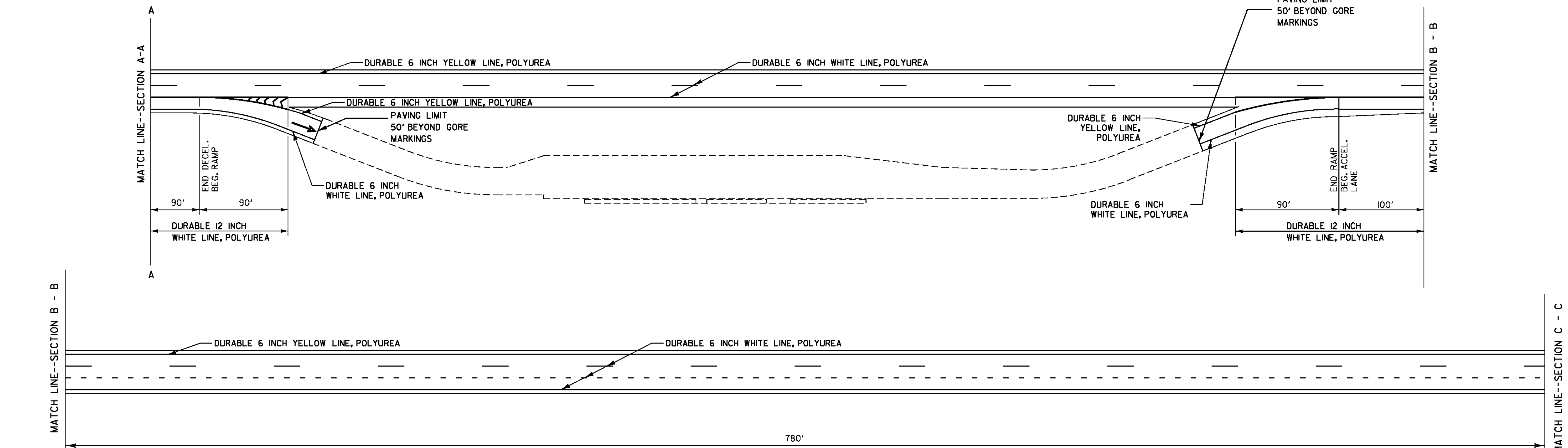
**DURABLE 6 INCH YELLOW LINE, POLYUREA**  
 PARKING AREA  
 SOUTHBOUND OFF RAMP SOLID LT EDGE LINE  
 SOUTHBOUND ON RAMP SOLID LT EDGE LINE

**TEMPORARY 12 INCH WHITE LINE, PAINT**  
 PARKING AREA  
 SOUTHBOUND OFF RAMP SOLID LT GORE AREA  
 INTERSTATE 91 SOLID RT GORE AREA  
 SOUTHBOUND ON RAMP SOLID LT GORE AREA  
 INTERSTATE 91 SOLID RT GORE AREA

**DURABLE 12 INCH WHITE LINE, POLYUREA**  
 PARKING AREA  
 SOUTHBOUND OFF RAMP SOLID LT GORE AREA  
 INTERSTATE 91 SOLID RT GORE AREA  
 SOUTHBOUND ON RAMP SOLID LT GORE AREA  
 INTERSTATE 91 SOLID RT GORE AREA

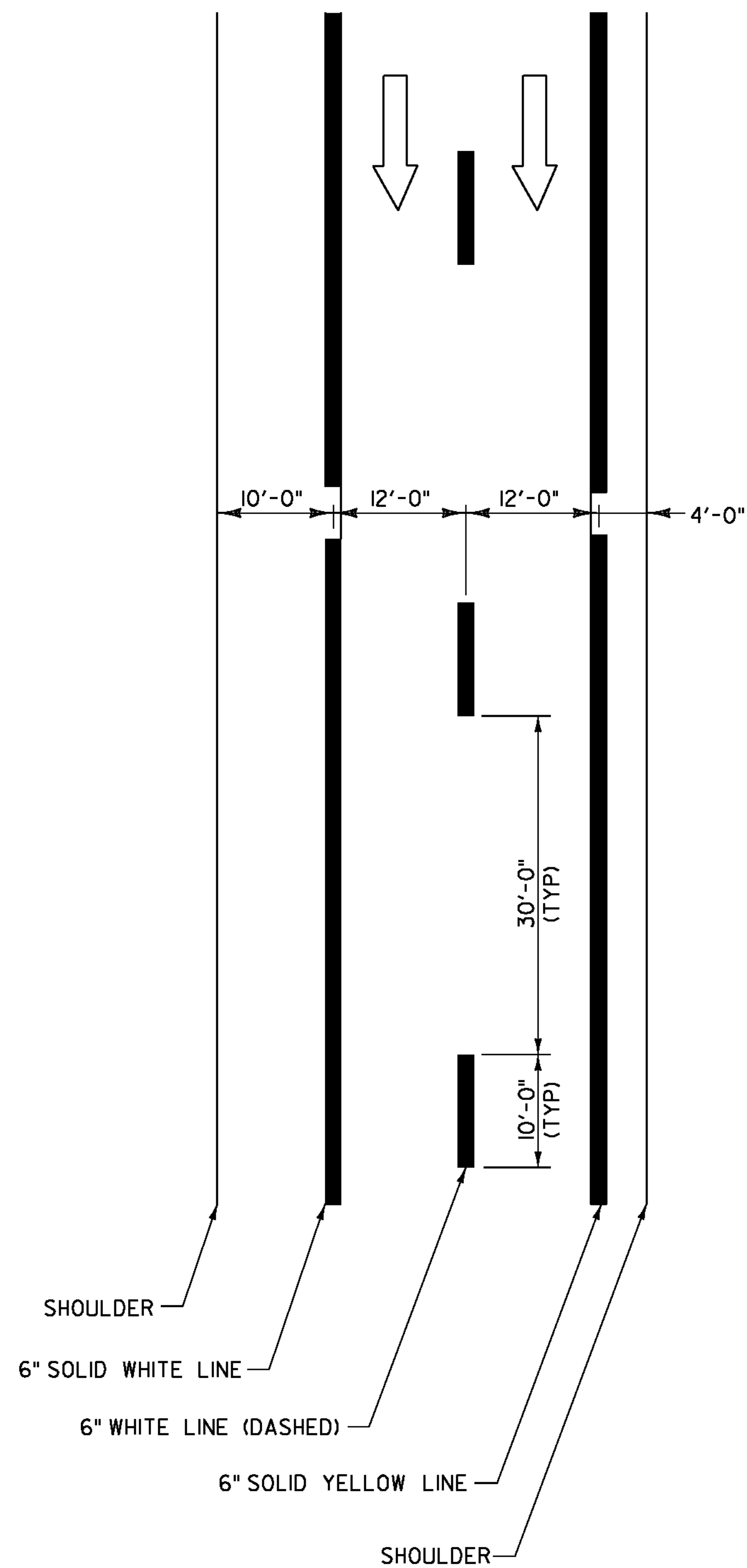
**TEMPORARY LETTER OR SYMBOL, PAINT**  
 PARKING AREA  
 SOUTHBOUND OFF RAMP →

**DURABLE LETTER OR SYMBOL, POLYUREA**  
 PARKING AREA  
 SOUTHBOUND OFF RAMP →



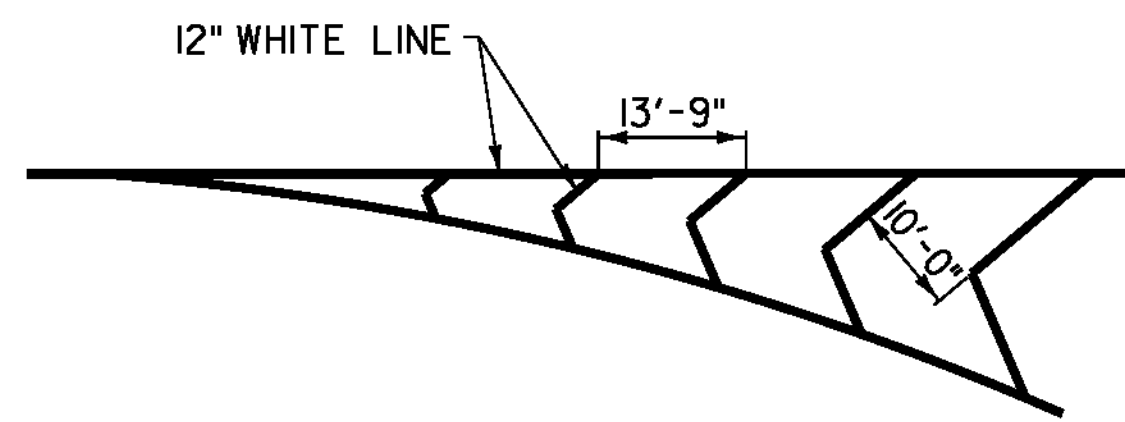
|  |                                 |
|--|---------------------------------|
| <b>PAVEMENT MARKING<br/>DETAIL SHEET 7<br/>PARKING AREA SB</b> | PROJECT NAME: FAIRLEE - NEWBURY |
|  | PROJECT NUMBER: IM SURF (40)    |
|  | FILE NAME: I3a236\pl3a236.dgn   |
| PROJECT LEADER: M. FOWLER                                      | PLOT DATE: 20-FEB-2014          |
| DESIGNED BY: LOCKE   | DRAWN BY: LOCKE                 |
| IPARM FILE NAME: pl3a236_20.i                                  | CHECKED BY: FOWLER              |
|  | SHEET 20 OF 27                  |

NOT TO SCALE

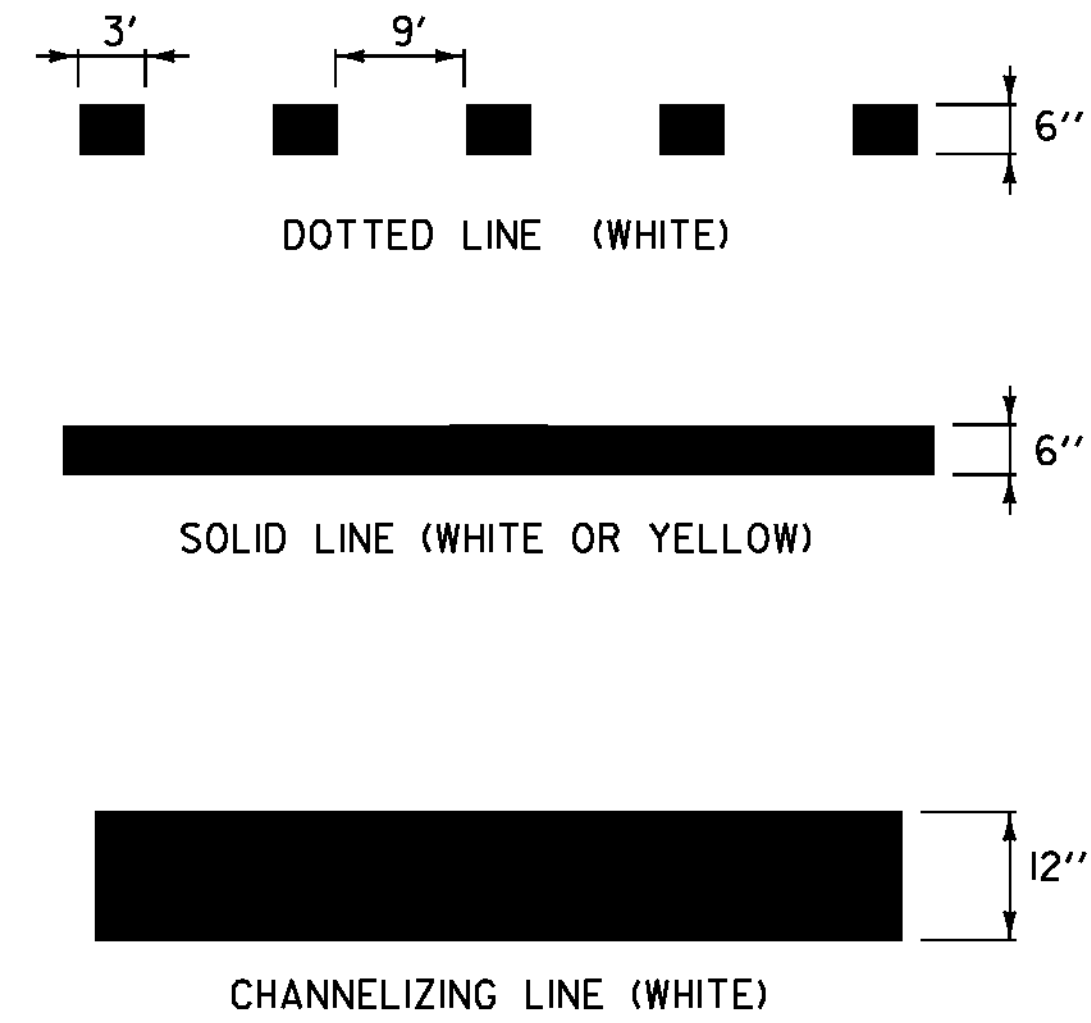


**TYPICAL MAINLINE MARKING PLAN**  
NOT TO SCALE

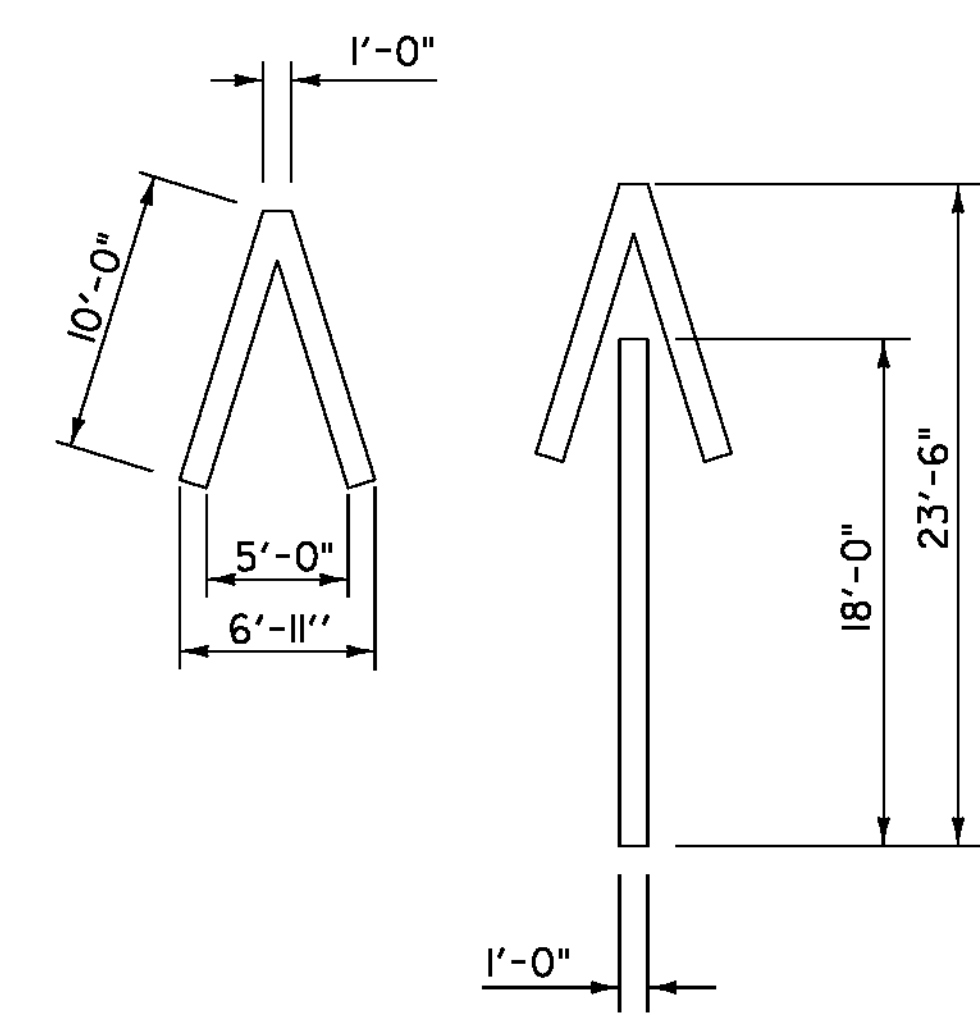
**LEGEND**  
← DIRECTION OF TRAFFIC FLOW



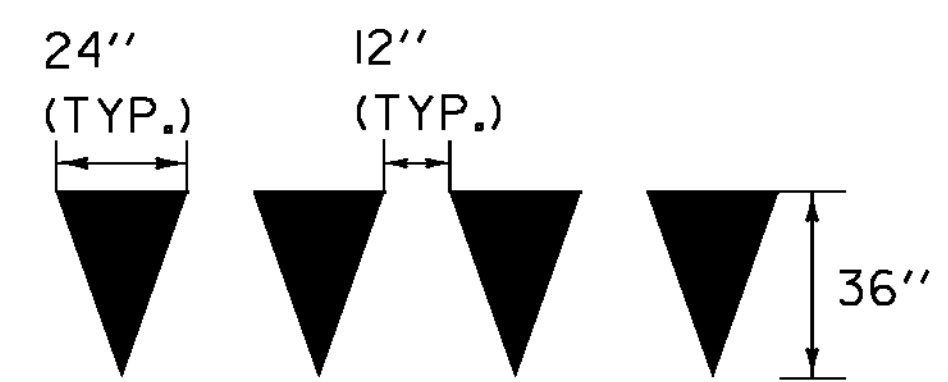
**GORE MARKING DETAIL**  
NOT TO SCALE



**PAVEMENT MARKING LINE DETAILS**  
NOT TO SCALE



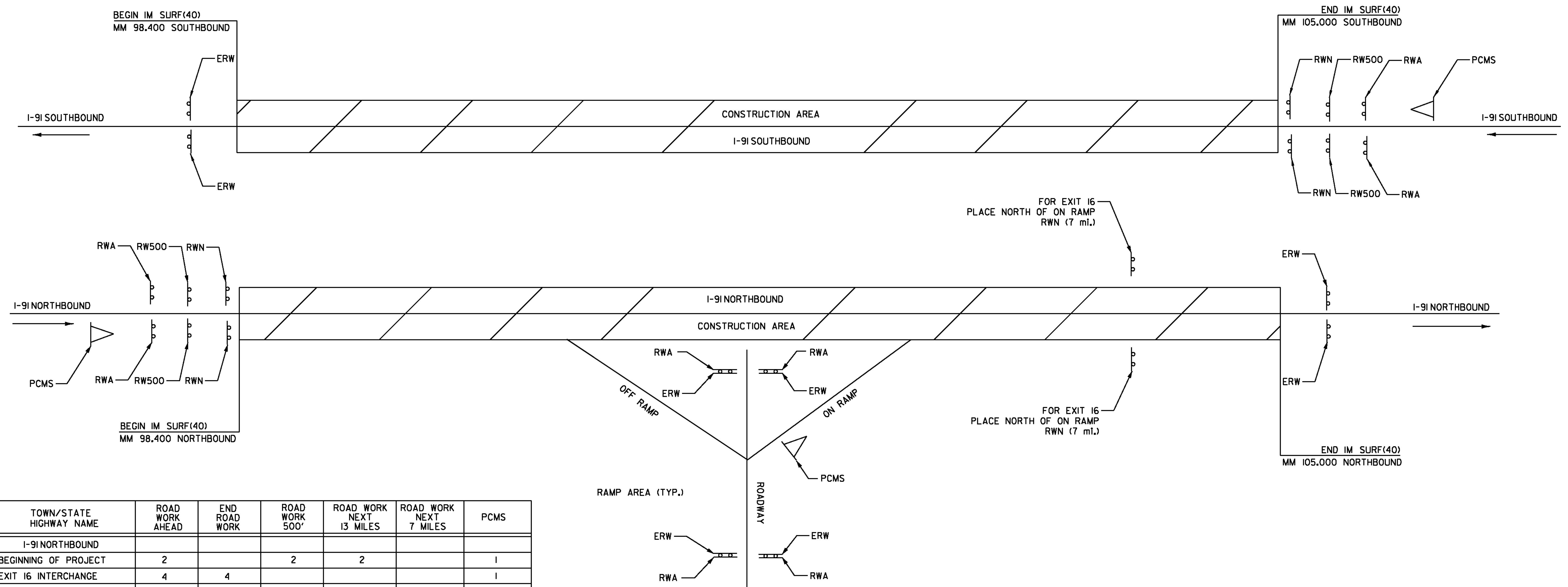
**WRONG WAY ARROW**  
NOT TO SCALE  
MARKINGS TO BE PLACED AT EXISTING WRONG WAY SIGN



**YIELD LINE DETAILS**  
NOT TO SCALE  
TO BE INSTALLED ONLY AT THE DIRECTION OF THE ENGINEER.  
TO BE PAID AS ONE LETTER OR SYMBOL PER TRIANGLE.

|                                 |   |
|---------------------------------|---|
| <b>PAVEMENT MARKING SHEET 8</b> | PROJECT NAME: FAIRLEE - NEWBURY   |
|                                 | PROJECT NUMBER: IM SURF (40)  |
|                                 | FILE NAME: i3a236\pl3a236.dgn<br>PROJECT LEADER: M. FOWLER<br>DESIGNED BY: LOCKE<br>IPARM FILE NAME: pl3a236_21.t |

- LEGEND**
- RWA = ROAD WORK AHEAD
  - RW500 = ROAD WORK 500'
  - RWN = ROAD WORK NEXT XX MILES
  - ERW = END ROAD WORK
  - PCMS = PORTABLE CHANGEABLE MESSAGE SIGN



| TOWN/STATE<br>HIGHWAY NAME | ROAD<br>WORK<br>AHEAD | END<br>ROAD<br>WORK | ROAD<br>WORK<br>500' | ROAD WORK<br>NEXT<br>13 MILES | ROAD WORK<br>NEXT<br>7 MILES | PCMS     |
|----------------------------|-----------------------|---------------------|----------------------|-------------------------------|------------------------------|----------|
| I-91 NORTHBOUND            |                       |                     |                      |                               |                              |          |
| BEGINNING OF PROJECT       | 2                     |                     | 2                    | 2                             |                              | 1        |
| EXIT 16 INTERCHANGE        | 4                     | 4                   |                      |                               |                              | 1        |
| MM 98.050                  |                       |                     |                      |                               | 2                            |          |
| END OF PROJECT             |                       | 2                   |                      |                               |                              |          |
| <b>TOTAL</b>               | <b>6</b>              | <b>6</b>            | <b>2</b>             | <b>2</b>                      | <b>2</b>                     | <b>2</b> |

| TOWN/STATE<br>HIGHWAY NAME | ROAD<br>WORK<br>AHEAD | END<br>ROAD<br>WORK | ROAD<br>WORK<br>500' | ROAD WORK<br>NEXT<br>7 MILES | PCMS     |
|----------------------------|-----------------------|---------------------|----------------------|------------------------------|----------|
| I-91 SOUTHBOUND            |                       |                     |                      |                              |          |
| BEGINNING OF PROJECT       |                       | 2                   |                      |                              |          |
| END OF PROJECT             | 2                     |                     | 2                    | 2                            | 1        |
| <b>TOTAL</b>               | <b>2</b>              | <b>2</b>            | <b>2</b>             | <b>2</b>                     | <b>1</b> |

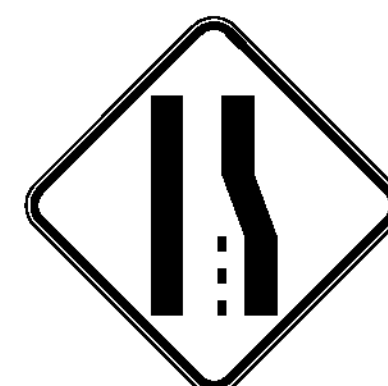
**CONSTRUCTION  
APPROACH  
SIGNING  
SHEET**

PROJECT NAME: FAIRLEE - NEWBURY  
PROJECT NUMBER: IM SURF (40)

FILE NAME: I3a236\pl3a236.dgn  
PROJECT LEADER: M. FOWLER  
DESIGNED BY: LOCKE  
IPARM FILE NAME: pl3a236\_22.1

PLOT DATE: 20-FEB-2014  
DRAWN BY: LOCKE  
CHECKED BY: FOWLER  
SHEET 22 OF 27

1. THE CONTRACTOR SHALL SUBMIT A SITE SPECIFIC TRAFFIC CONTROL PLAN TO THE ENGINEER FOR APPROVAL PRIOR TO THE START OF CONSTRUCTION. THE COST OF PREPARING THIS PLAN (AND MAKING CHANGES IF NECESSARY) SHALL NOT BE PAID SEPARATELY BUT WILL BE INCLUDED IN THE UNIT PRICE BID FOR ITEM 641.10, "TRAFFIC CONTROL".
2. THE 2009 MUTCD SHALL BE THE STANDARD FOR ALL TRAFFIC CONTROL DEVICES. EXISTING SIGNS, SIGNALS AND MARKINGS SHALL BE VALID UNTIL SUCH TIME AS THEY ARE REPLACED OR RECONSTRUCTED. WHEN NEW TRAFFIC CONTROL DEVICES ARE ERECTED OR PLACED OR EXISTING TRAFFIC CONTROL DEVICES ARE REPLACED OR REPAIRED THE EQUIPMENT, DESIGN, METHOD OF INSTALLATION, PLACEMENT OR REPAIR SHALL CONFORM WITH THE MUTCD.
3. ADDITIONAL RAMP SIGNING MAY BE REQUIRED AS DIRECTED BY THE ENGINEER.
4. THE BID PRICE FOR "TRAFFIC CONTROL", ITEM 641.10, SHALL INCLUDE ALL APPROACH AND ON-PROJECT CONSTRUCTION SIGNING, PORTABLE ARROW BOARDS, BARRIERS, BARRELS, CONES, BARRICADES, TEMPORARY REGULATORY AND WARNING SIGNS, AND POSTS AS DETAILED IN VAOT STANDARDS. ALL ADJUSTING, RELOCATING, AND REMOVING OF THESE DEVICES AS DIRECTED BY THE ENGINEER SHALL ALSO BE INCLUDED. THE FOLLOWING ITEMS WILL BE PAID FOR SEPARATELY:
  - 630.10 AND 630.15 - UNIFORMED TRAFFIC OFFICERS AND FLAGGERS
  - 646.622 TEMPORARY 6 INCH WHITE LINE, PAINT
  - 646.632 TEMPORARY 6 INCH YELLOW LINE, PAINT
  - 646.662 TEMPORARY 12 INCH WHITE LINE, PAINT
  - 646.692 TEMPORARY LETTER OR SYMBOL, PAINT
  - 646.76 LINE STRIPING TARGETS
5. PORTABLE CHANGEABLE MESSAGE SIGNS (PCMS) SHALL BE PROVIDED FOR USE ALONG THIS PROJECT. THE PLACEMENT OF THESE UNITS AS WELL AS THE MESSAGE WILL BE APPROVED BY THE ENGINEER. THESE SIGNS WILL BE PAID FOR UNDER ITEM 641.15, "PORTABLE CHANGEABLE MESSAGE SIGN".  
  
PCMS SHOULD NOT REPLACE ANY OF THE SIGNING DETAILED IN THE MUTCD AND SHOULD NOT BE USED IF STANDARD TRAFFIC CONTROL DEVICES ADEQUATELY PROVIDE THE INFORMATION THE MOTORISTS NEED TO TRAVEL SAFELY.  
  
THE PCMS SHALL CONSIST OF EITHER ONE OR TWO PHASES. TYPICALLY, A PHASE SHALL CONSIST OF UP TO THREE LINES OF EIGHT CHARACTERS PER LINE. THE PCMS SHOULD BE USED AS A SUPPLEMENT AND NOT AS A SUBSTITUTE FOR CONVENTIONAL SIGNS AND PAVEMENT MARKINGS.  
  
THE PCMS SHOULD COMMUNICATE WHAT INFORMATION MOTORISTS NEED TO KNOW. UNNECESSARY INFORMATION SHOULD BE AVOIDED. MESSAGES SHOULD BE UPDATED PERIODICALLY TO DESCRIBE THE WORK ACTIVITY OCCURRING SO THAT THE PCMS CONTINUES TO COMMAND THE ATTENTION OF MOTORISTS.
6. THE CONTRACTOR SHALL INCLUDE A CONSTRUCTION SIGN APPROACH PACKAGE FOR EXPECTED LANE CLOSURES AND WORK ZONE SPEED REDUCTIONS IN COMPLIANCE WITH VAOT STANDARDS. PAYMENT FOR PROVIDING THIS PACKAGE SHALL BE INCIDENTAL TO ITEM 641.10, "TRAFFIC CONTROL". ADD G20-5dP "WORK ZONE" PLAQUE AND R2-6dP "FINES DOUBLED" PLAQUE TO SPEED LIMIT SIGNS (SEE FIG. 6F-3 OF MUTCD). OMIT VR-355 "FINES DOUBLED FOR SPEEDING IN WORK ZONE" SIGN.
7. NO CONSTRUCTION SIGNS SHALL BE INSTALLED AS TO INTERFERE OR OBSTRUCT THE VIEW OF EXISTING TRAFFIC CONTROL DEVICES, STOPPING SIGHT DISTANCE, AND CORNER SIGHT DISTANCE FROM DRIVES AND INTERSECTING HIGHWAYS.
8. REFER TO VT. STATE STANDARDS, THE SPECIAL PROVISIONS, AND THE MUTCD FOR TEMPORARY TRAFFIC CONTROL SIGN DIMENSIONS AND COLORS.
9. SIGN W4-2 MAY BE REPLACED WITH W9-2:



W4-2



W9-2



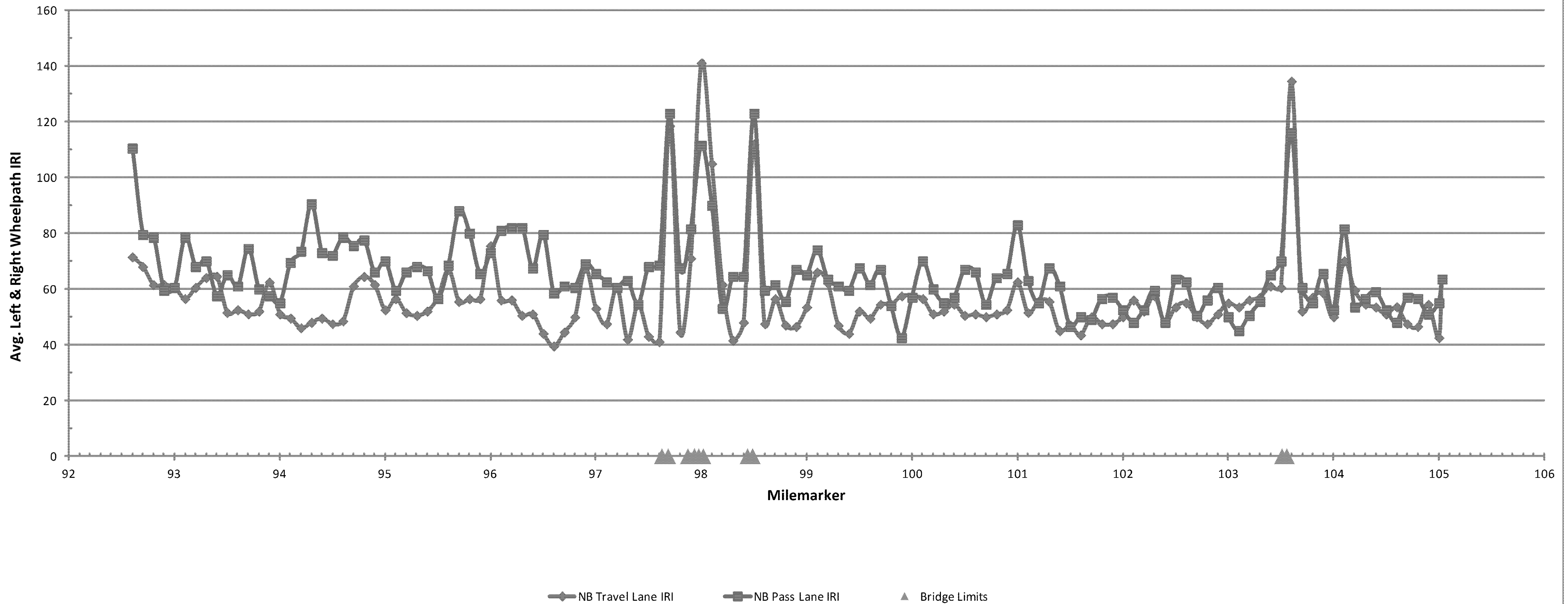
**CONSTRUCTION  
APPROACH  
SIGNING  
SHEET NOTES**

|                  |                    |             |             |
|------------------|--------------------|-------------|-------------|
| PROJECT NAME:    | FAIRLEE - NEWBURY  |             |             |
| PROJECT NUMBER:  | IM SURF (40)       |             |             |
| FILE NAME:       | I3a236\pl3a236.dgn | PLOT DATE:  | 06-MAR-2014 |
| PROJECT LEADER:  | M. FOWLER          | DRAWN BY:   | LOCKE       |
| DESIGNED BY:     | LOCKE              | CHECKED BY: | FOWLER      |
| IPARM FILE NAME: | pl3a236_23.1       | SHEET       | 23 OF 27    |

# I 91 NB Fairlee-Bradford-Newbury IM SURF(40) IRI Profile

Profiled 10/4/2013

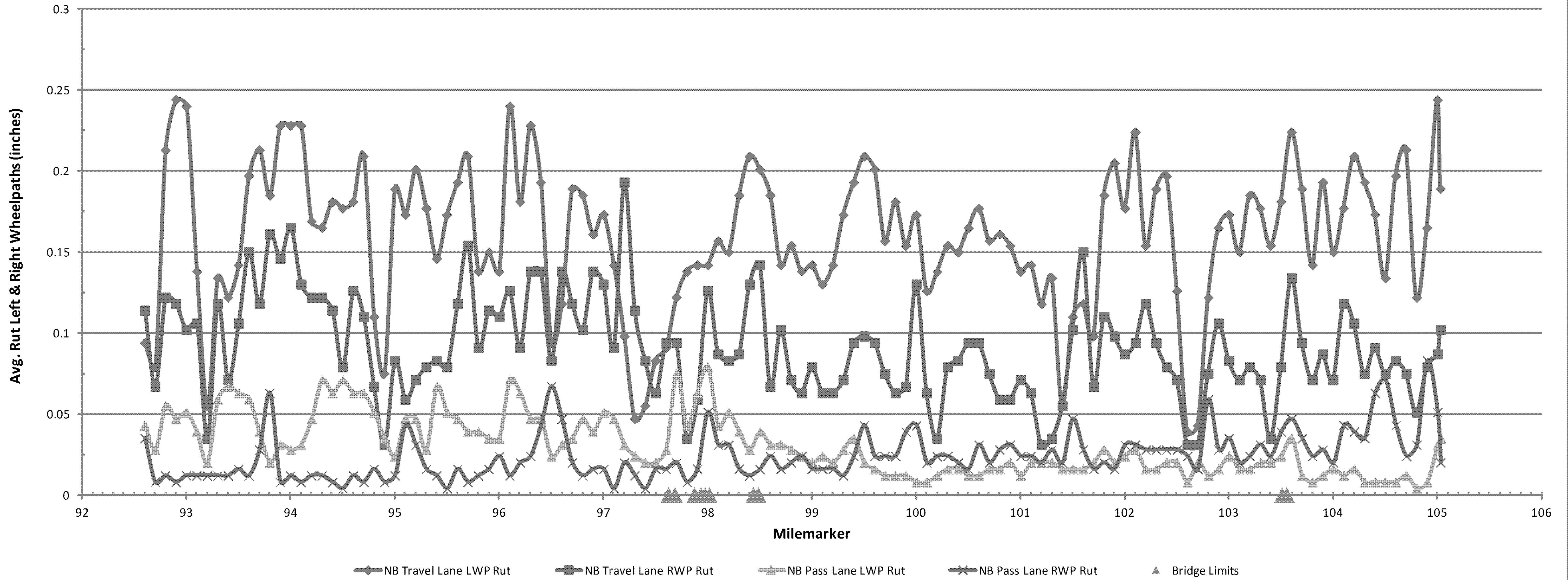
NB Travel Lane Avg. IRI = 56.5 NB Pass Lane Avg. IRI = 65.6



**FOR INFORMATIONAL PURPOSES ONLY**

|  |                  |                    |
|--|------------------|--------------------|
| <b>ROUGHNESS<br/>DATA<br/>INFORMATION<br/>SHEET NB</b> | PROJECT NAME:    | FAIRLEE - NEWBURY  |
|  | PROJECT NUMBER:  | IM SURF (40)       |
|  | FILE NAME:       | I3a236\pl3a236.dgn |
|  | PLOT DATE:       | 20-FEB-2014        |
|  | PROJECT LEADER:  | M. FOWLER          |
|  | DESIGNED BY:     | LOCKE              |
|  | IPARM FILE NAME: | pl3a236_24.1       |
|  | DRAWN BY:        | LOCKE              |
|  | CHECKED BY:      | FOWLER             |
|  | SHEET            | 24 OF 27           |

**I 91 NB Fairlee-Bradford-Newbury IM SURF(40) Rut Profile**  
 Profiled 10/4/2013



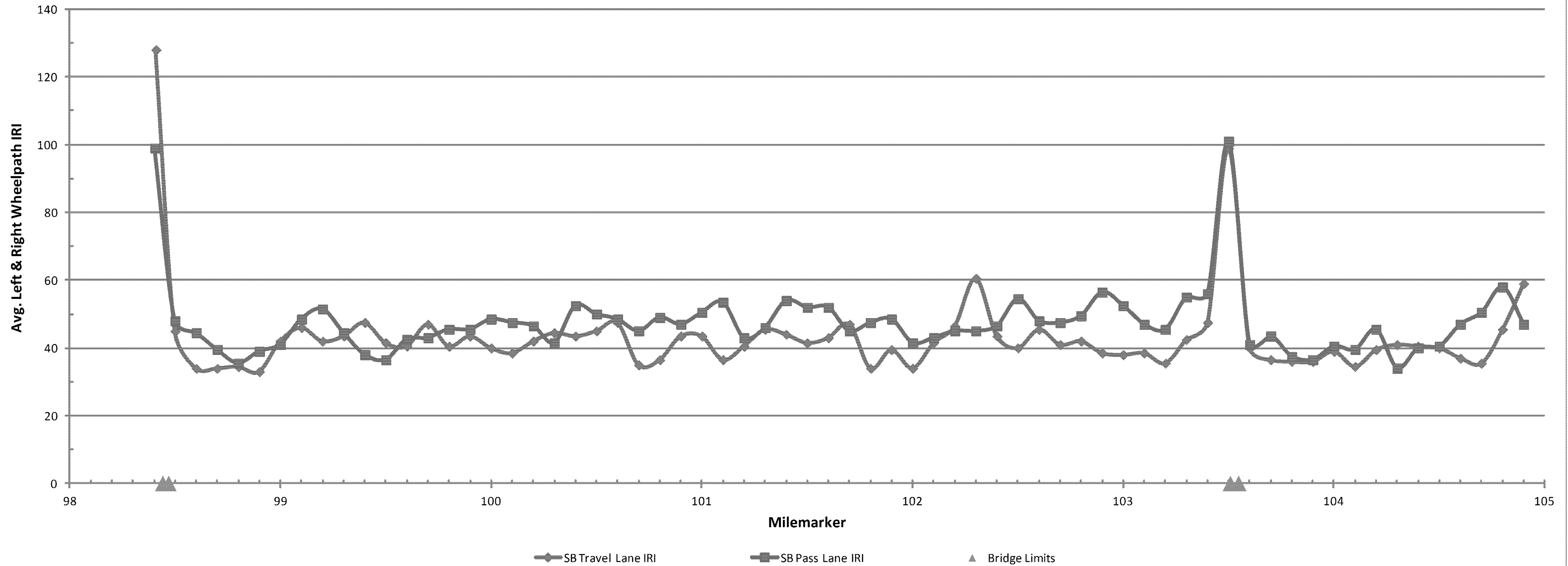
**FOR INFORMATIONAL PURPOSES ONLY**

|  |  |
|--|--|
| <b>RUTTING<br/>DATA<br/>INFORMATION<br/>SHEET NB</b> | PROJECT NAME: FAIRLEE - NEWBURY  |
|  | PROJECT NUMBER: IM SURF (40)   |
|  | FILE NAME: i3a236\pl3a236.dgn      PLOT DATE: 20-FEB-2014<br>PROJECT LEADER: M. FOWLER      DRAWN BY: LOCKE<br>DESIGNED BY: LOCKE      CHECKED BY: FOWLER<br>IPARM FILE NAME: pl3a236_25.1      SHEET 25 OF 27 |

# I 91 SB Bradford-Newbury IM SURF(40) IRI Profile

Profiled 10/4/2013

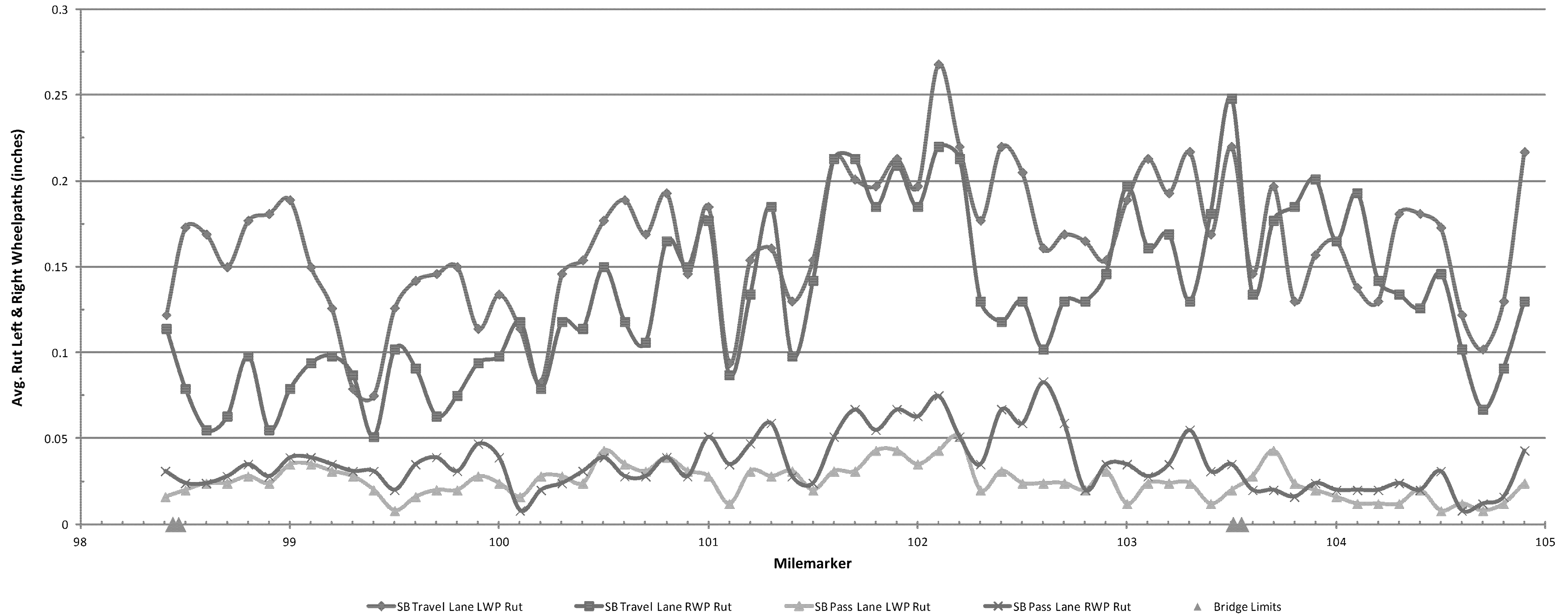
SB Travel Lane Avg. IRI = 43.4 SB Pass Lane Avg. IRI = 47.7



**FOR INFORMATIONAL PURPOSES ONLY**

|  |                  |                    |
|--|------------------|--------------------|
| <b>ROUGHNESS<br/>DATA<br/>INFORMATION<br/>SHEET SB</b> | PROJECT NAME:    | FAIRLEE - NEWBURY  |
|  | PROJECT NUMBER:  | IM SURF (40)       |
|  | FILE NAME:       | I3a236\pl3a236.dgn |
|  | PLOT DATE:       | 20-FEB-2014        |
|  | PROJECT LEADER:  | M. FOWLER          |
|  | DESIGNED BY:     | LOCKE              |
|  | IPARM FILE NAME: | pl3a236_26.1       |
|  | DRAWN BY:        | LOCKE              |
|  | CHECKED BY:      | FOWLER             |
|  | SHEET            | 26 OF 27           |

**I 91 SB Bradford-Newbury IM SURF(40) Rut Profile**  
 Profiled 10/4/2013



**FOR INFORMATIONAL PURPOSES ONLY**

|  |                                 |
|--|---------------------------------|
| <b>RUTTING<br/>DATA<br/>INFORMATION<br/>SHEET SB</b> | PROJECT NAME: FAIRLEE - NEWBURY |
|  | PROJECT NUMBER: IM SURF (40)    |
|  | FILE NAME: i3a236\pl3a236.dgn   |
| PROJECT LEADER: M. FOWLER                            | PLOT DATE: 20-FEB-2014          |
| DESIGNED BY: LOCKE                                   | DRAWN BY: LOCKE                 |
| IPARM FILE NAME: pl3a236_27.1                        | CHECKED BY: FOWLER              |
|  | SHEET 27 OF 27                  |