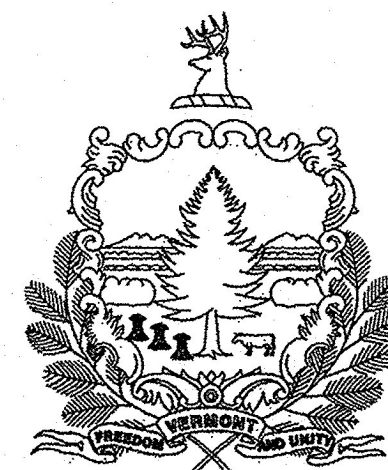


STATE OF VERMONT
AGENCY OF TRANSPORTATION



RECORD PLANS

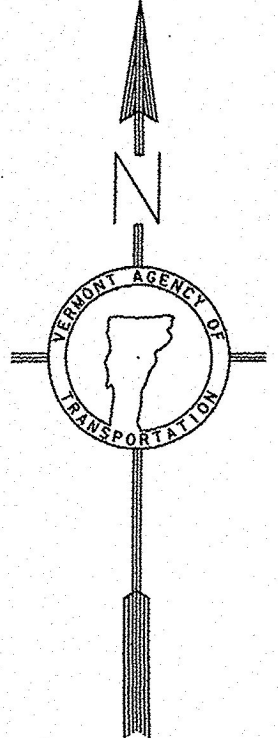
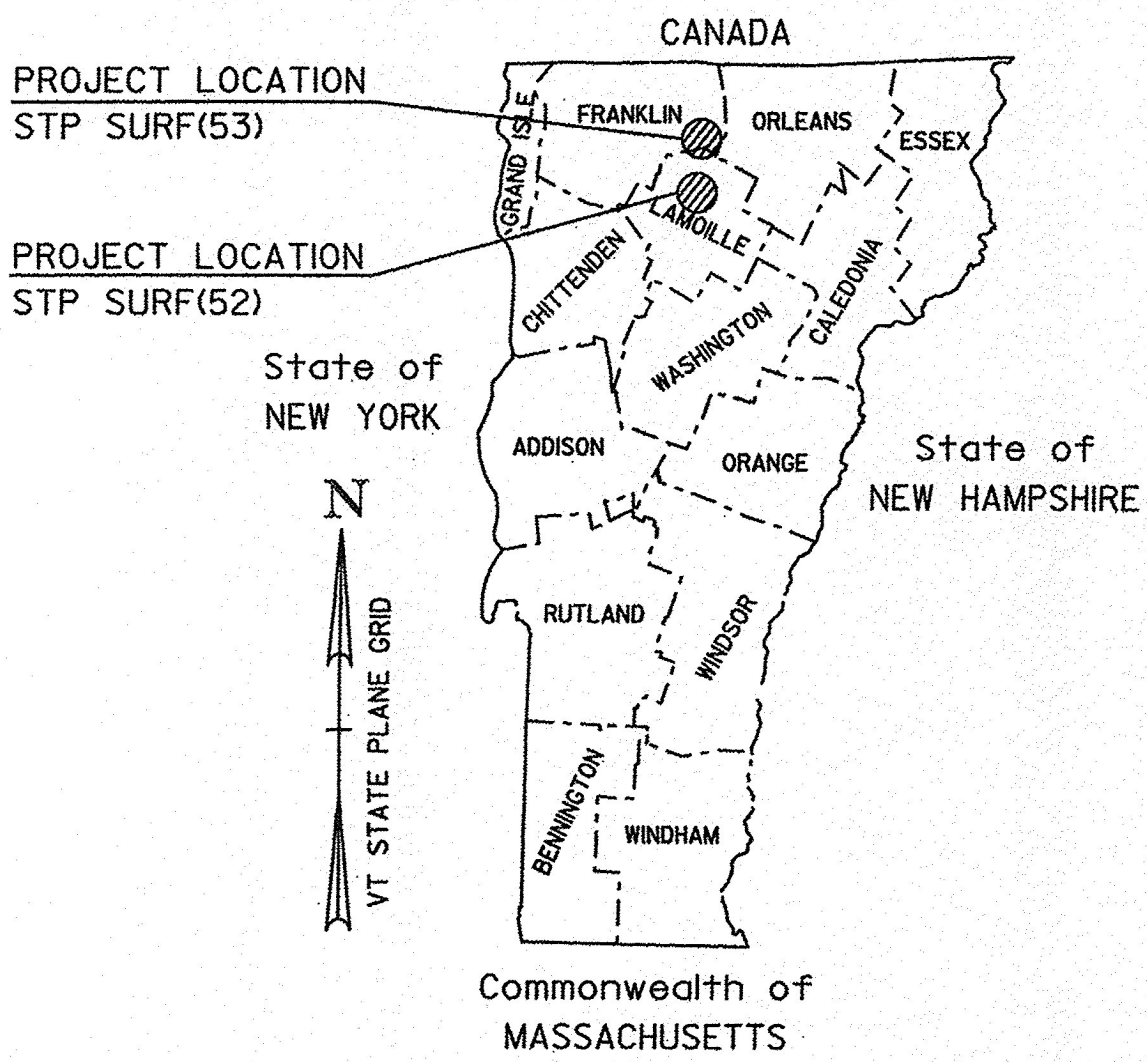
CONTRACTOR: ALL STATES ASPHALT, INC. - SUNDERLAND, MA
RESIDENT ENGINEER: DELVIN WARNER
CONSTRUCTION BEGAN: MAY 16, 2016
CONSTRUCTION COMPLETE: AUGUST 11, 2016
RECORD PLANS BY: DELVIN WARNER & JESSE IVES
I HEREBY CERTIFY THAT ALL THE CONSTRUCTION REQUIRED BY THIS SET OF DRAWINGS HAS BEEN ACCOMPLISHED AS INDICATED HEREIN.
BY Delvin Warner RESIDENT ENGINEER
DATE 09-13-2018

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.

PROPOSED IMPROVEMENT
TOWNS OF JOHNSON & HYDE PARK
TOWNS OF BELVIDERE, MONTGOMERY, ENOSBURG & BERKSHIRE
COUNTIES OF LAMOILLE & FRANKLIN
VT ROUTES 100C & 118 (MAJOR COLLECTORS)

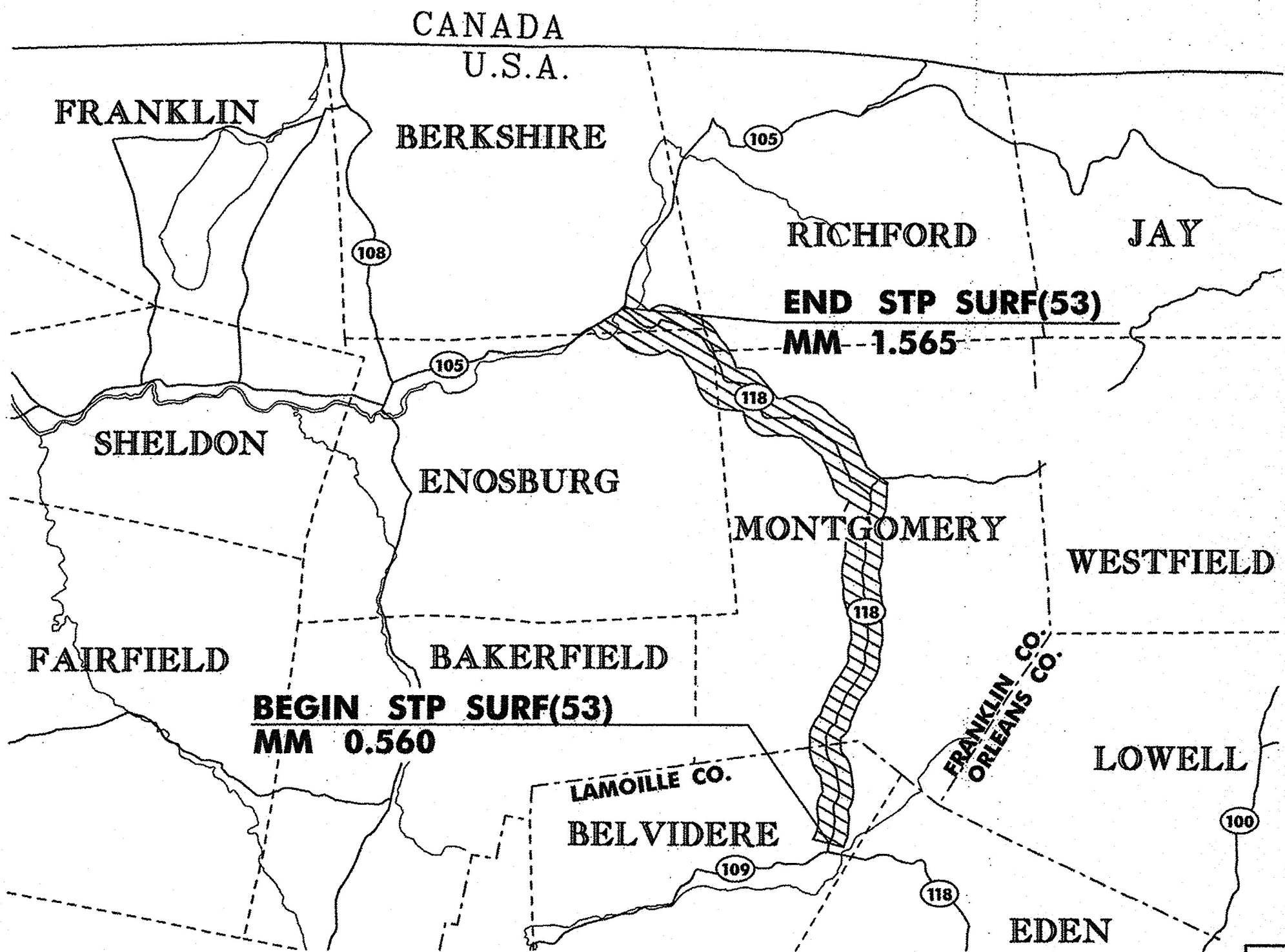
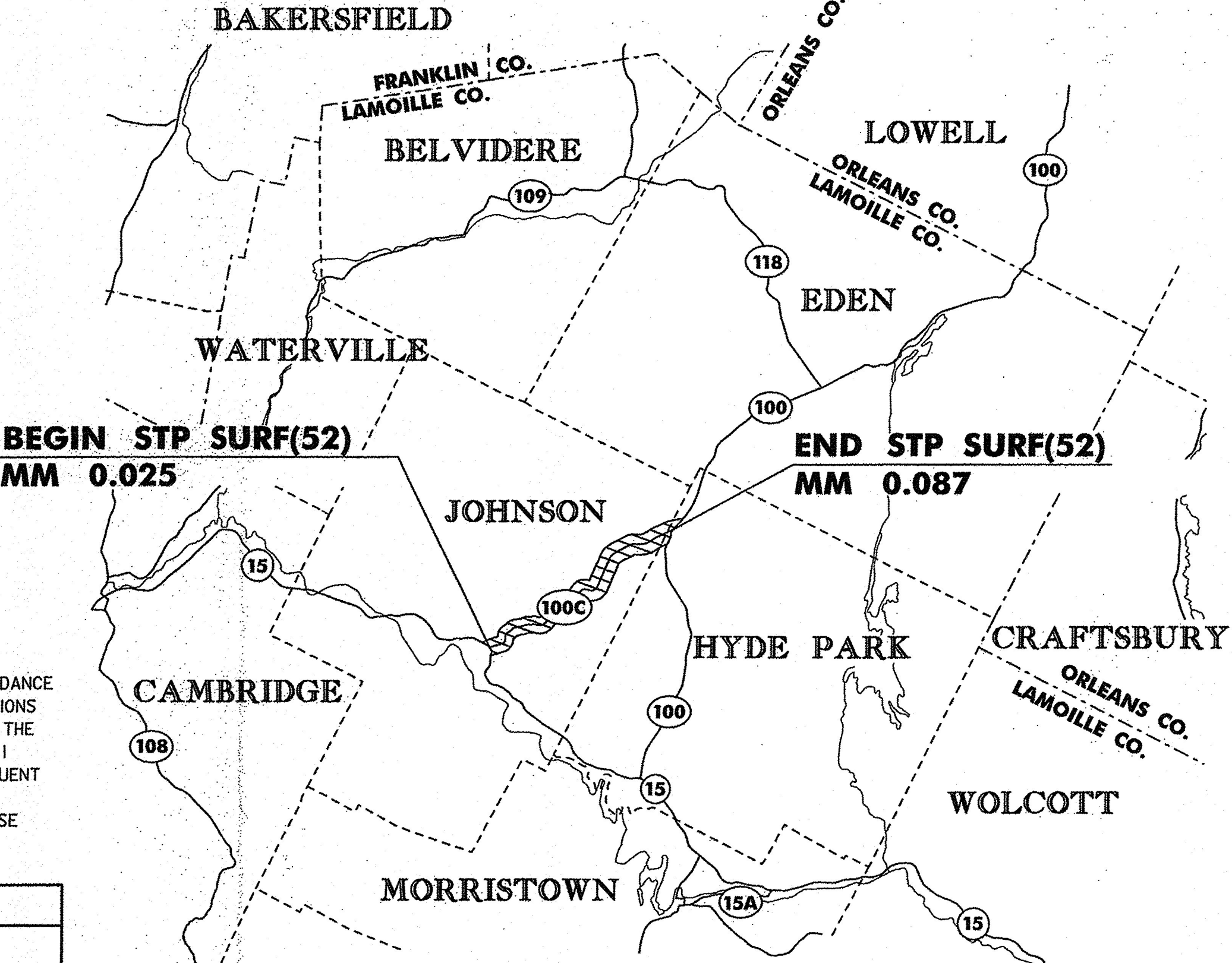
JOHNSON - HYDE PARK
COUNTY OF LAMOILLE
STP SURF(52)
SEE SHEET 11
FOR ADDITIONAL PROJECT INFORMATION

BELVIDERE - BERKSHIRE
COUNTIES OF LAMOILLE & FRANKLIN
STP SURF(53)
SEE SHEET 24
FOR ADDITIONAL PROJECT INFORMATION



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.

QUALITY ASSURANCE PROGRAM : LEVEL 3
SURVEYED BY : N/A
SURVEYED DATE : N/A
DATUM
VERTICAL N/A
HORIZONTAL N/A



NOT TO SCALE

DIRECTOR OF PROJECT DELIVERY
APPROVED <u>Michael J. Fowler</u> DATE <u>10/27/2015</u>
PROJECT MANAGER : MICHAEL J. FOWLER, P.E.
PROJECT NAME : JOHNSON - HYDE PARK BELVIDERE - BERKSHIRE
PROJECT NUMBER : STP SURF (52) , STP SURF (53)
SHEET 1 OF 45 SHEETS

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- 6. NOTES COMMON TO BOTH ALTERNATES
- 7. - 8. MICRO-MILL DETAILS SHEETS 1& 2
- 8A. CENTERLINE RUMBLE STRIP DETAIL SHEET
- 9. - 10. COMPOSITE QUANTITY SHEETS 1& 2

JOHNSON - HYDE PARK STP SURF(52)

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SD-516.10 BRIDGE JOINT ASPHALTIC PLUG

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-17	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

PROJECT NAME: JOHNSON - HYDE PARK, BELVIDERE - BERKSHIRE

PROJECT NUMBER: STP SURF(52), STP SURF(53)

FILE NAME: I4v204\pi4v204.dgn\pi4v204_02.1 PLOT DATE: 04-NOV-2015

PROJECT LEADER: M. FOWLER

DRAWN BY: K. LOCKE

DESIGNED BY: K. LOCKE

CHECKED BY: M. FOWLER

COMPOSITE INDEX OF SHEETS

SHEET 2 OF 45

GENERAL INFORMATION

SYMBOLGY LEGEND NOTE

THE SYMBOLGY ON THIS SHEET IS INTENDED TO COVER STANDARD CONVENTIONAL SYMBOLGY. THE SYMBOLGY IS USED FOR EXISTING & PROPOSED FEATURES WITH HEAVIER LINEWEIGHT, IN COMBINATION WITH PROJECT ANNOTATION, AS NOTED ON PROJECT PLAN SHEETS. THIS LEGEND SHEET COVERS THE BASICS. SYMBOLGY ON PLANS MAY VARY, PLAN ANNOTATIONS AND NOTES SHOULD BE USED TO CLARIFY AS NEEDED.

R.O.W. ABBREVIATIONS (CODES) & SYMBOLS

POINT	CODE	DESCRIPTION
	CH	CHANNEL EASEMENT
	CONST	CONSTRUCTION EASEMENT
	CUL	CULVERT EASEMENT
	D&C	DISCONNECT & CONNECT
	DIT	DITCH EASEMENT
	DR	DRAINAGE EASEMENT
	DRIVE	DRIVEWAY EASEMENT
	EC	EROSION CONTROL
	HWY	HIGHWAY EASEMENT
	I&M	INSTALL & MAINTAIN EASEMENT
	LAND	LANDSCAPE EASEMENT
	R&RES	REMOVE & RESET
	R&REP	REMOVE & REPLACE
	SR	SLOPE RIGHT
	UE	UTILITY EASEMENT
	(P)	PERMANENT EASEMENT
	(T)	TEMPORARY EASEMENT
■	BNDNS	BOUND SET
▣	BNDNS	BOUND TO BE SET
●	IPNS	IRON PIN SET
⊙	IPNS	IRON PIN TO BE SET
⊠	CALC	EXISTING ROW POINT
○	PROW	PROPOSED ROW POINT
[LENGTH]		LENGTH CARRIED ON NEXT SHEET

COMMON TOPOGRAPHIC POINT SYMBOLS

POINT	CODE	DESCRIPTION
※	APL	BOUND APPARENT LOCATION
□	BM	BENCH MARK
▣	BND	BOUND
▢	CB	CATCH BASIN
⊕	COMB	COMBINATION POLE
▢	DITHR	DROP INLET THROATED DNC
⊕	EL	ELECTRIC POWER POLE
⊙	FPOLE	FLAGPOLE
○	GASFIL	GAS FILLER
○	GP	GUIDE POST
※	GSO	GAS SHUT OFF
⊙	GUY	GUY POLE
⊙	GUYW	GUY WIRE
※	GV	GATE VALVE
⊗	H	TREE HARDWOOD
△	HCTRL	CONTROL HORIZONTAL
▲	HVCTRL	CONTROL HORIZ. & VERTICAL
◇	HYD	HYDRANT
⊙	IP	IRON PIN
⊙	IPIPE	IRON PIPE
⊕	LI	LIGHT - STREET OR YARD
⊕	MB	MAILBOX
○	MH	MANHOLE (MH)
▣	MM	MILE MARKER
⊙	PM	PARKING METER
▣	PMK	PROJECT MARKER
⊙	POST	POST STONE/WOOD
⊕	RRSIG	RAILROAD SIGNAL
⊕	RRSL	RAILROAD SWITCH LEVER
⊕	S	TREE SOFTWOOD
⊙	SAT	SATELLITE DISH
⊗	SHRUB	SHRUB
⊕	SIGN	SIGN
⊕	STUMP	STUMP
⊕	TEL	TELEPHONE POLE
⊙	TIE	TIE
⊕	TSIGN	SIGN W/DOUBLE POST
⊕	VCTRL	CONTROL VERTICAL
○	WELL	WELL
※	WSO	WATER SHUT OFF

THESE ARE COMMON VAOT SURVEY POINT SYMBOLS FOR EXISTING FEATURES, ALSO USED FOR PROPOSED FEATURES WITH HEAVIER LINEWEIGHT, IN COMBINATION WITH PROPOSED ANNOTATION.

PROPOSED GEOMETRY CODES

CODE	DESCRIPTION
PC	POINT OF CURVATURE
PI	POINT OF INTERSECTION
CC	CENTER OF CURVE
PT	POINT OF TANGENCY
PCC	POINT OF COMPOUND CURVE
PRC	POINT OF REVERSE CURVE
POB	POINT OF BEGINNING
POE	POINT OF ENDING
STA	STATION PREFIX
AH	AHEAD STATION SUFFIX
BK	BACK STATION SUFFIX
D	CURVE DEGREE OF (100FT)
R	CURVE RADUIS OF
T	CURVE TANGENT LENGTH
L	CURVE LENGTH OF
E	CURVE EXTERNAL DISTANCE

UTILITY SYMBOLGY

UNDERGROUND UTILITIES

— UGU —		UTILITY (GENERIC-UNKNOWN)
— UT —		TELEPHONE
— UE —		ELECTRIC
— UC —		CABLE (TV)
— UEC —		ELECTRIC+CABLE
— UET —		ELECTRIC+TELEPHONE
— UCT —		CABLE+TELEPHONE
— UECT —		ELECTRIC+CABLE+TELEP.
— G —		GAS LINE
— W —		WATER LINE
— S —		SANITARY SEWER (SEPTIC)

ABOVE GROUND UTILITIES (AERIAL)

— AGU —		UTILITY (GENERIC-UNKNOWN)
— T —		TELEPHONE
— E —		ELECTRIC
— C —		CABLE (TV)
— EC —		ELECTRIC+CABLE
— ET —		ELECTRIC+TELEPHONE
— AER E&T —		ELECTRIC+TELEPHONE
— CT —		CABLE+TELEPHONE
— ECT —		ELECTRIC+CABLE+TELEP.
—		UTILITY POLE GUY WIRE

PROJECT CONSTRUCTION SYMBOLGY

PROJECT DESIGN & LAYOUT SYMBOLGY

—	CLEAR ZONE
— — — — —	PLAN LAYOUT MATCHLINE

PROJECT CONSTRUCTION FEATURES

▲ — ▲ — ▲ — ▲	TOP OF CUT SLOPE
○ — ○ — ○ — ○	TOE OF FILL SLOPE
⊗ — ⊗ — ⊗ — ⊗	STONE FILL
— — — — —	BOTTOM OF DITCH
— — — — —	CULVERT PROPOSED
— — — — —	STRUCTURE SUBSURFACE
PDF — — — — — PDF	PROJECT DEMARCATION FENCE
BF — — — — — BF	BARRIER FENCE
XXXXXXXXXXXXXXXXXXXX	TREE PROTECTION ZONE (TPZ)
///	STRIPING LINE REMOVAL
~~~~~	SHEET PILES

CONVENTIONAL BOUNDARY SYMBOLGY

BOUNDARY LINES

— TOWN LINE —	TOWN BOUNDARY LINE
— COUNTY LINE —	COUNTY BOUNDARY LINE
— STATE LINE —	STATE BOUNDARY LINE
— — — — —	PROPOSED STATE R.O.W. (LIMITED ACCESS)
— — — — —	PROPOSED STATE R.O.W.
— — — — —	STATE ROW (LIMITED ACCESS)
— — — — —	STATE ROW
— — — — —	TOWN ROW
— . . . . .	PERMANENT EASEMENT LINE (P)
— - - - -	TEMPORARY EASEMENT LINE (T)
+ — — — — +	SURVEY LINE
— . . . . .	PROPERTY LINE (P/L)
▲ — SR — ○ — SR — ▲ — SR — ○	SLOPE RIGHTS
6f — — — — — 6f	6F PROPERTY BOUNDARY
4f — — — — — 4f	4F PROPERTY BOUNDARY
HAZ — — — — — HAZ	HAZARDOUS WASTE

EPSC LAYOUT PLAN SYMBOLGY

EPSC MEASURES

ONNOONNOONNO	FILTER CURTAIN
— — — — —	SILT FENCE
— — — — —	SILT FENCE WOVEN WIRE
— — — — —	CHECK DAM
— — — — —	DISTURBED AREAS REQUIRING RE-VEGETATION
— — — — —	EROSION MATTING

ENVIRONMENTAL RESOURCES

— — — — —	WETLAND BOUNDARY
— . . . . .	RIPARIAN BUFFER ZONE
— — — — —	WETLAND BUFFER ZONE
— — — — —	SOIL TYPE BOUNDARY
— — — — —	THREATENED & ENDANGERED SPECIES
HAZ — — — — — HAZ	HAZARDOUS WASTE AREA
— — — — —	AGRICULTURAL LAND
— — — — —	FISH & WILDLIFE HABITAT
— — — — —	FLOOD PLAIN
— — — — —	ORDINARY HIGH WATER (OHW)
— — — — —	STORM WATER
— — — — —	USDA FOREST SERVICE LANDS
— — — — —	WILDLIFE HABITAT SUIT/CONN

ARCHEOLOGICAL & HISTORIC

— — — — —	ARCHEOLOGICAL BOUNDARY
— — — — —	HISTORIC DISTRICT BOUNDARY
— — — — —	HISTORIC AREA
Ⓜ	HISTORIC STRUCTURE

CONVENTIONAL TOPOGRAPHIC SYMBOLGY

EXISTING FEATURES

— — — — —	ROAD EDGE PAVEMENT
— — — — —	ROAD EDGE GRAVEL
— — — — —	DRIVEWAY EDGE
— — — — —	DITCH
— — — — —	FOUNDATION
— — — — —	FENCE (EXISTING)
— — — — —	FENCE WOOD POST
— — — — —	FENCE STEEL POST
— — — — —	GARDEN
— — — — —	ROAD GUARDRAIL
— — — — —	RAILROAD TRACKS
— — — — —	CULVERT (EXISTING)
— — — — —	STONE WALL
— — — — —	WALL
— — — — —	WOOD LINE
— — — — —	BRUSH LINE
— — — — —	HEDGE
— — — — —	BODY OF WATER EDGE
— — — — —	LEDGE EXPOSED

PROJECT NAME: JOHNSON - HYDE PARK, BELVIDERE - BERKSHIRE

PROJECT NUMBER: STP SURF(52), STP SURF(53)

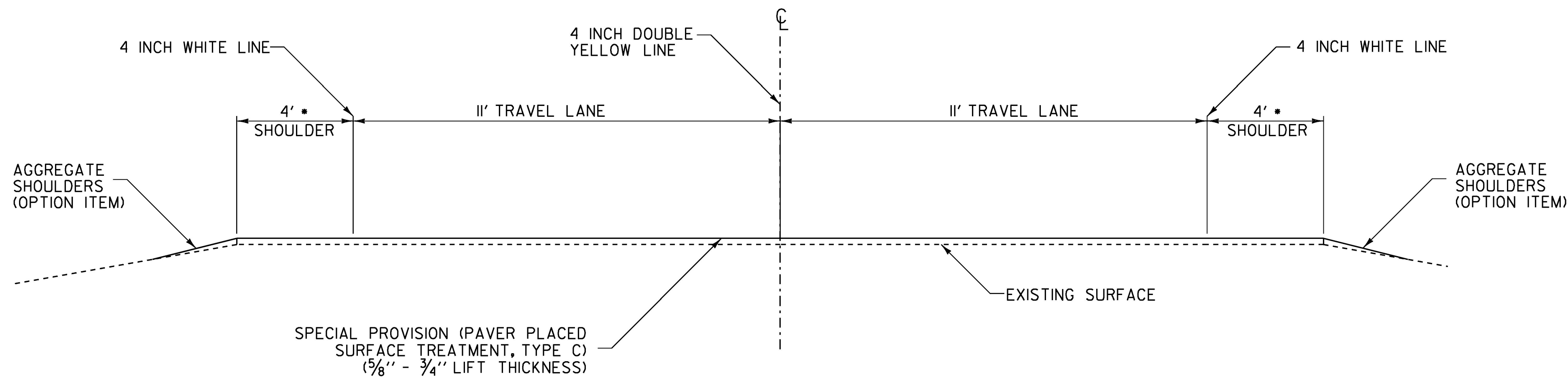
FILE NAME: i4v204\pi4v204.dgn\pi4v203_03.1 PLOT DATE: 04-NOV-2015

PROJECT LEADER: M. FOWLER DRAWN BY: K. LOCKE

DESIGNED BY: K. LOCKE CHECKED BY: M. FOWLER

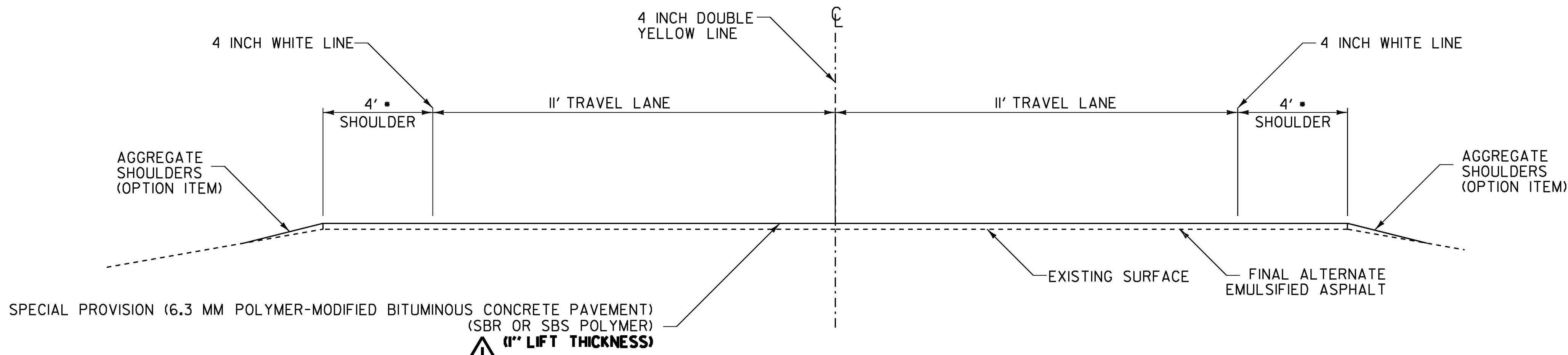
CONVENTIONAL SYMBOLGY LEGEND SHEET SHEET 3 OF 45





**TYPICAL SECTION ALTERNATE A**  
**VT ROUTE 100C MM 1.037 (JOHNSON) – MM 0.044 (HYDE PARK)**  
**VT ROUTE 118 MM 0.560 (BELVIDERE) – MM 5.565 (MONTGOMERY)**

- 4' SHOULDER WIDTH WILL BE APPLICABLE IN MOST AREAS. IN AREAS WHERE THE SHOULDER IS LESS THAN OR EXCEEDS 4' IN WIDTH THE CONTRACTOR SHALL FOLLOW THE EXISTING SHOULDER WIDTH.



**TYPICAL SECTION ALTERNATES B & C**  
**VT ROUTE 100C MM 1.037 (JOHNSON) – MM 0.044 (HYDE PARK)**  
**VT ROUTE 118 MM 0.560 (BELVIDERE) – MM 5.565 (MONTGOMERY)**

- 4' SHOULDER WIDTH WILL BE APPLICABLE IN MOST AREAS. IN AREAS WHERE THE SHOULDER IS LESS THAN OR EXCEEDS 4' IN WIDTH THE CONTRACTOR SHALL FOLLOW THE EXISTING SHOULDER WIDTH.

NOTES:  
1. PRIOR TO THE PLACEMENT OF THE POLYMER-MODIFIED BITUMINOUS CONCRETE PAVEMENT, EMULSIFIED ASPHALT SHALL BE APPLIED TO ALL EXISTING PAVEMENT SURFACES AND ON ALL MICRO-MILLED SURFACES AT A RATE OF 0.080 GAL/SY (+/- 0.01GAL/SY) OR AS DIRECTED BY THE ENGINEER.

 **2. SPECIAL PROVISION (6.3 MM POLYMER - MODIFIED BITUMINOUS CONCRETE PAVEMENT)(SBR OR SBS POLYMER)(1" LIFT THICKNESS) PAVEMENT TOLERANCE = +/- 1/8 INCH (TOTAL THICKNESS).**

REVISION	DATE	DESCRIPTION	BY
	01-27-16	LIFT THICKNESS CHANGED FROM 3/4" - 1" TO 1", ADDED THICKNESS TOLERANCE NOTE.	KML

**NOT TO SCALE**

PROJECT NAME: JOHNSON - HYDE PARK, BELVIDERE - BERKSHIRE

PROJECT NUMBER: STP SURF(52), STP SURF(53)

FILE NAME: I4v204\pi4v204.dgn\pi4v204_04.1 PLOT DATE: 26-JAN-2016

PROJECT LEADER: M. FOWLER

DESIGNED BY: K. LOCKE

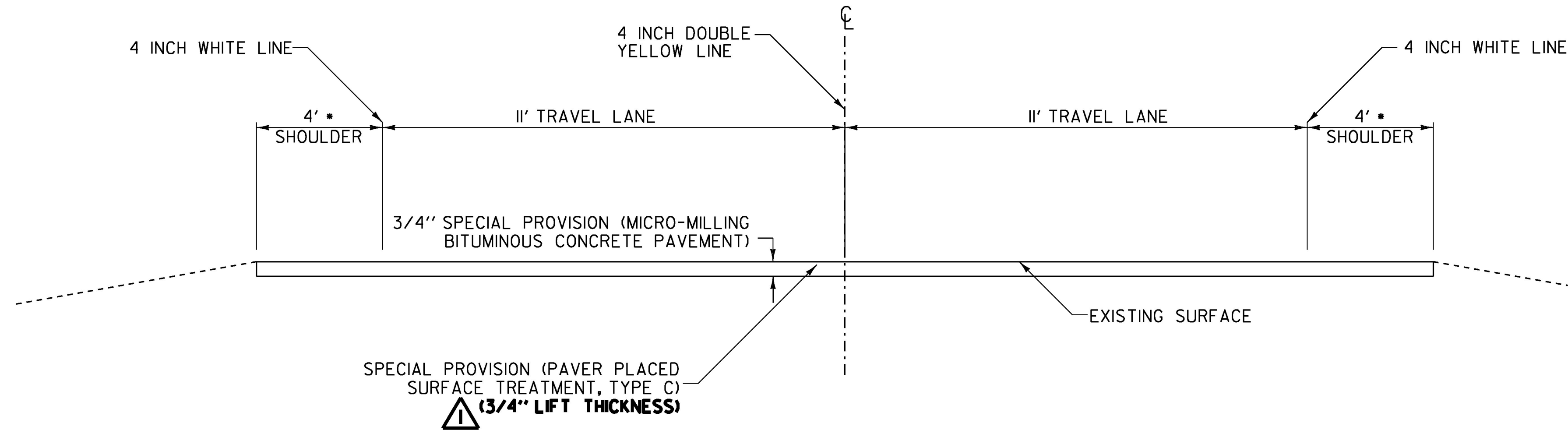
TYPICAL SECTIONS SHEET 1

DRAWN BY: K. LOCKE

CHECKED BY: M. FOWLER

SHEET 4 OF 45

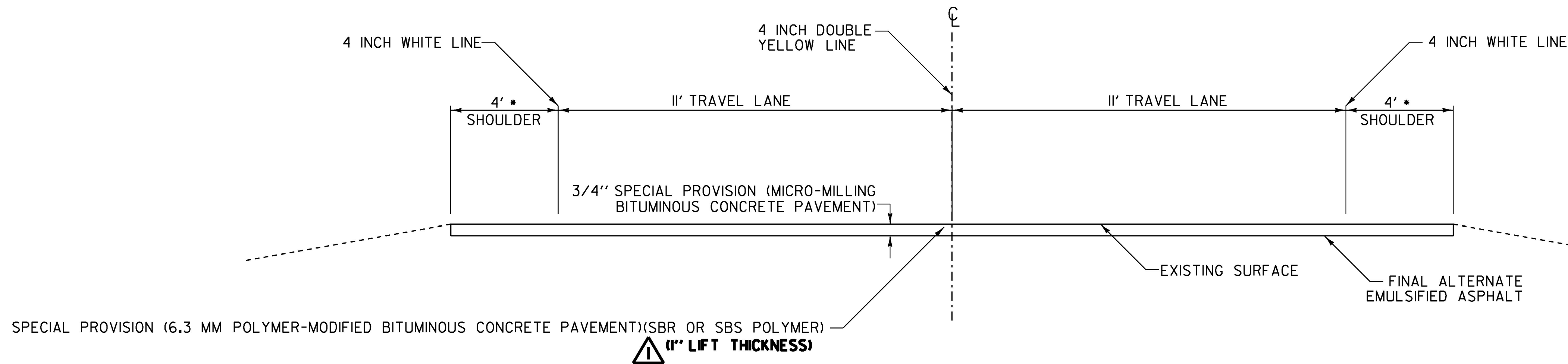




**TYPICAL SECTION ALTERNATE A**  
**VT ROUTE 100C MM 0.025 (JOHNSON) – MM 0.928 (JOHNSON)**  
**VT ROUTE 100C MM 0.044 (HYDE PARK) – MM 0.087 (HYDE PARK)**  
**VT ROUTE 118 MM 5.565 (MONTGOMERY) – MM 1.565 (BERKSHIRE)**

- NOTE:**  
**1. SPECIAL PROVISION (PAVER PLACED SURFACE TREATMENT, TYPE C)(3/4" LIFT THICKNESS) PAVEMENT TOLERANCE = +/- 1/8 INCH (TOTAL THICKNESS).**
- 4' SHOULDER WIDTH WILL BE APPLICABLE IN MOST AREAS. IN AREAS WHERE THE SHOULDER IS LESS THAN OR EXCEEDS 4' IN WIDTH THE CONTRACTOR SHALL FOLLOW THE EXISTING SHOULDER WIDTH.

REVISION	DATE	DESCRIPTION	BY
1	01-26-16	LIFT THICKNESS CHANGED FROM 5/8" - 3/4" TO 3/4". ADDED THICKNESS TOLERANCE NOTE.	KML



**TYPICAL SECTION ALTERNATES B & C**  
**VT ROUTE 100C MM 0.025 (JOHNSON) – MM 0.928 (JOHNSON)**  
**VT ROUTE 100C MM 0.044 (HYDE PARK) – MM 0.087 (HYDE PARK)**  
**VT ROUTE 118 MM 5.565 (MONTGOMERY) – MM 1.565 (BERKSHIRE)**

- 4' SHOULDER WIDTH WILL BE APPLICABLE IN MOST AREAS. IN AREAS WHERE THE SHOULDER IS LESS THAN OR EXCEEDS 4' IN WIDTH THE CONTRACTOR SHALL FOLLOW THE EXISTING SHOULDER WIDTH.

- NOTES:**  
1. PRIOR TO THE PLACEMENT OF THE POLYMER-MODIFIED BITUMINOUS CONCRETE PAVEMENT, EMULSIFIED ASPHALT SHALL BE APPLIED TO ALL EXISTING PAVEMENT SURFACES AND ON ALL MICRO-MILLED SURFACES AT A RATE OF 0.080 GAL/SY (+/- 0.01GAL/SY) OR AS DIRECTED BY THE ENGINEER.
- 2. SPECIAL PROVISION (6.3 MM POLYMER - MODIFIED BITUMINOUS CONCRETE PAVEMENT)(SBR OR SBS POLYMER)(1" LIFT THICKNESS) PAVEMENT TOLERANCE = +/- 1/8 INCH (TOTAL THICKNESS).**

REVISION	DATE	DESCRIPTION	BY
1	01-27-16	LIFT THICKNESS CHANGED FROM 3/4" - 1" TO 1". ADDED THICKNESS TOLERANCE NOTE.	KML

**NOT TO SCALE**

PROJECT NAME: JOHNSON - HYDE PARK, BELVIDERE - BERKSHIRE	
PROJECT NUMBER: STP SURF(52), STP SURF(53)	
FILE NAME: I4v204\pi4v204.dgn\pi4v204_05.1	PLOT DATE: 26-JAN-2016
PROJECT LEADER: M. FOWLER	DRAWN BY: K. LOCKE
DESIGNED BY: K. LOCKE	CHECKED BY: M. FOWLER
TYPICAL SECTIONS SHEET 2	SHEET 5 OF 45



NOTES:  
1. ALL NECESSARY SURFACE PREPARATION INVOLVING PATCHING, POTHOLE REPAIR, AND CRACK SEALING SHALL BE PERFORMED PRIOR TO APPLICATION OF ANY SPOT LEVELING OR PLACEMENT OF THE WEARING COURSE. ALL CRACKS GREATER THAN 0.10 INCH AND UP TO 1.0 INCH IN WIDTH SHALL BE SEALED USING THE "BLOW AND GO" FLUSH FILL METHOD. ALL COSTS ASSOCIATED WITH THIS WORK WILL BE PAID FOR UNDER ITEM 417.20, BITUMINOUS CRACK SEALING, "BLOW AND GO" METHOD. THE PATCHING OF ALL CRACKS GREATER THAN 1.0 INCH 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 1). AN ESTIMATED QUANTITY FOR THIS ITEM HAS BEEN INCLUDED.

2. ALL EXISTING PAVEMENT MARKINGS SHALL BE REMOVED PRIOR TO ANY CRACK SEALING BEING PERFORMED AND PRIOR TO APPLYING THE THIN BITUMINOUS SURFACE TREATMENT. ALL LANE DELINEATION IS TO BE MAINTAINED DURING CONSTRUCTION BY THE USE OF LINE STRIPING TARGETS OR TEMPORARY PAINT.

3. A 1:50 MICRO-MILLED TRANSITION SHALL BE CONSTRUCTED AT LOCATIONS SPECIFIED IN THE PLANS, AS DIRECTED BY THE ENGINEER. ANY SAWCUTTING AT BUTT JOINTS WILL BE CONSIDERED INCIDENTAL TO ITEM 900.675, SPECIAL PROVISION (MICRO-MILLING BITUMINOUS PAVEMENT). THE CONTRACTOR SHALL USE CAUTION WHEN MICRO-MILLING AND PAVING OPERATIONS OCCUR ADJACENT TO EXISTING DROP INLETS OR CATCH BASINS. ANY DAMAGE WHICH OCCURS TO THESE DRAINAGE STRUCTURES AS A RESULT OF THESE OPERATIONS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE REPAIRED BY THE CONTRACTOR AT NO COST TO THE STATE OF VERMONT.

4. BRIDGES WITHIN THIS PROJECT ARE:

- VT ROUTE 100C BRIDGE NUMBER 1, MM 0.972 (JOHNSON) CONCRETE T BEAM (BRIDGE TO BE REPLACED BY OTHERS WITH PROJECT JOHNSON BF 0248(4), NO MICRO-MILLING OR PAVING NECESSARY).  
BRIDGE NUMBER 2, MM 1.000 (JOHNSON) CONCRETE T BEAM (BRIDGE TO BE REPLACED BY OTHERS WITH PROJECT JOHNSON BF 0248(4), NO MICRO-MILLING OR PAVING NECESSARY).  
BRIDGE NUMBER 3, MM 3.313 (JOHNSON) 5' X 5' CONCRETE BOX (OVERLAY WITH FINAL ALTERNATE SURFACE TREATMENT).  
BRIDGE NUMBER 4, MM 3.786 (JOHNSON) 72" CMP (OVERLAY WITH FINAL ALTERNATE SURFACE TREATMENT).  
BRIDGE NUMBER 5, MM 4.153 (JOHNSON) 180" CGMPP (OVERLAY WITH FINAL ALTERNATE SURFACE TREATMENT).  
BRIDGE NUMBER 6, MM 0.054 (HYDE PARK) SINGLE SPAN PLATE GIRDER (MICRO-MILL ONE INCH THEN OVERLAY WITH FINAL ALTERNATE SURFACE TREATMENT).
- VT ROUTE 118 BRIDGE NUMBER 4A, MM 1.523 (BELVIDERE) 48" ACCGMP (OVERLAY WITH FINAL ALTERNATE SURFACE TREATMENT).  
BRIDGE NUMBER 5, MM 1.990 (BELVIDERE) 72" RCP (OVERLAY WITH FINAL ALTERNATE SURFACE TREATMENT).  
BRIDGE NUMBER 6, MM 2.888 (BELVIDERE) 60" RCP (OVERLAY WITH FINAL ALTERNATE SURFACE TREATMENT).  
BRIDGE NUMBER 7, MM 0.290 (MONTGOMERY) CGMPP ARCH (OVERLAY WITH FINAL ALTERNATE SURFACE TREATMENT).  
BRIDGE NUMBER 8, MM 1.641 (MONTGOMERY) 72" ACCGMP (OVERLAY WITH FINAL ALTERNATE SURFACE TREATMENT).  
BRIDGE NUMBER 9, MM 1.883 (MONTGOMERY) 72" ACCGMP (OVERLAY WITH FINAL ALTERNATE SURFACE TREATMENT).  
BRIDGE NUMBER 10, MM 1.986 (MONTGOMERY) 48" ACCGMP (OVERLAY WITH FINAL ALTERNATE SURFACE TREATMENT).  
BRIDGE NUMBER 11, MM 2.260 (MONTGOMERY) COMP. WIDE FLANGE BEAM (BRIDGE HAS BARE CONCRETE DECK, NO MICRO-MILLING OR PAVING NECESSARY).  
BRIDGE NUMBER 11A, MM 2.862 (MONTGOMERY) 4' X 6' CONCRETE BOX (OVERLAY WITH FINAL ALTERNATE SURFACE TREATMENT).  
BRIDGE NUMBER 12, MM 2.974 (MONTGOMERY) CONCRETE SLAB (MICRO-MILL ONE INCH THEN OVERLAY WITH FINAL ALTERNATE SURFACE TREATMENT).  
BRIDGE NUMBER 12A, MM 4.168 (MONTGOMERY) 60" RCP (OVERLAY WITH FINAL ALTERNATE SURFACE TREATMENT).  
BRIDGE NUMBER 13, MM 4.432 (MONTGOMERY) 48" RCP (OVERLAY WITH FINAL ALTERNATE SURFACE TREATMENT).  
BRIDGE NUMBER 14, MM 4.882 (MONTGOMERY) CG MULTIPLATE PIPE (OVERLAY WITH FINAL ALTERNATE SURFACE TREATMENT).  
BRIDGE NUMBER 15, MM 5.612 (MONTGOMERY) REINFORCED COMP. ROLLED BEAM (MICRO-MILL ONE INCH THEN OVERLAY WITH FINAL ALTERNATE SURFACE TREATMENT).  
BRIDGE NUMBER 16, MM 6.981 (MONTGOMERY) CCM PLATE PIPE ARCH (MICRO-MILL 3/4 INCH THEN OVERLAY WITH FINAL ALTERNATE SURFACE TREATMENT).  
BRIDGE NUMBER 17, MM 7.387 (MONTGOMERY) 72" CGMPAC (MICRO-MILL 3/4 INCH THEN OVERLAY WITH FINAL ALTERNATE SURFACE TREATMENT).  
BRIDGE NUMBER 18, MM 8.208 (MONTGOMERY) 72" CGMPAC (MICRO-MILL 3/4 INCH THEN OVERLAY WITH FINAL ALTERNATE SURFACE TREATMENT).  
BRIDGE NUMBER 19, MM 8.355 (MONTGOMERY) CONC. WIDE FLANGE BEAM (MICRO-MILL ONE INCH THEN OVERLAY WITH FINAL ALTERNATE SURFACE TREATMENT).  
BRIDGE NUMBER 20, MM 8.525 (MONTGOMERY) CONC. WIDE FLANGE BEAM (MICRO-MILL ONE INCH THEN OVERLAY WITH FINAL ALTERNATE SURFACE TREATMENT).  
BRIDGE NUMBER 21, MM 8.691 (MONTGOMERY) CONC. WIDE FLANGE BEAM (MICRO-MILL ONE INCH THEN OVERLAY WITH FINAL ALTERNATE SURFACE TREATMENT).  
BRIDGE NUMBER 22, MM 9.171 (MONTGOMERY) 48" RCP (MICRO-MILL 3/4 INCH THEN OVERLAY WITH FINAL ALTERNATE SURFACE TREATMENT).  
BRIDGE NUMBER 23, MM 10.148 (MONTGOMERY) CONCRETE SLAB (MICRO-MILL ONE INCH THEN OVERLAY WITH FINAL ALTERNATE SURFACE TREATMENT).  
BRIDGE NUMBER 24, MM 0.621 (ENOSBURG) CONCRETE SLAB (MICRO-MILL 1 INCH THEN OVERLAY WITH FINAL ALTERNATE SURFACE TREATMENT).  
BRIDGE NUMBER 25, MM 0.335 (BERKSHIRE) 5.8' X 6.5' CONCRETE BOX (MICRO-MILL 3/4 INCH THEN OVERLAY WITH FINAL ALTERNATE SURFACE TREATMENT).  
BRIDGE NUMBER 26, MM 0.639 (BERKSHIRE) I-BEAM (MICRO-MILL ONE INCH THEN OVERLAY WITH FINAL ALTERNATE SURFACE TREATMENT).  
BRIDGE NUMBER 28, MM 0.739 (BERKSHIRE) 3 EACH ACCGMPA (MICRO-MILL 3/4 INCH THEN OVERLAY WITH FINAL ALTERNATE SURFACE TREATMENT).  
BRIDGE NUMBER 29, MM 0.791 (BERKSHIRE) 10' X 6' CONCRETE BOX (MICRO-MILL 3/4 INCH THEN OVERLAY WITH FINAL ALTERNATE SURFACE TREATMENT).  
BRIDGE NUMBER 30, MM 1.507 (BERKSHIRE) CONC. WIDE FLANGE BEAM (MICRO-MILL ONE INCH THEN OVERLAY WITH FINAL ALTERNATE SURFACE TREATMENT).

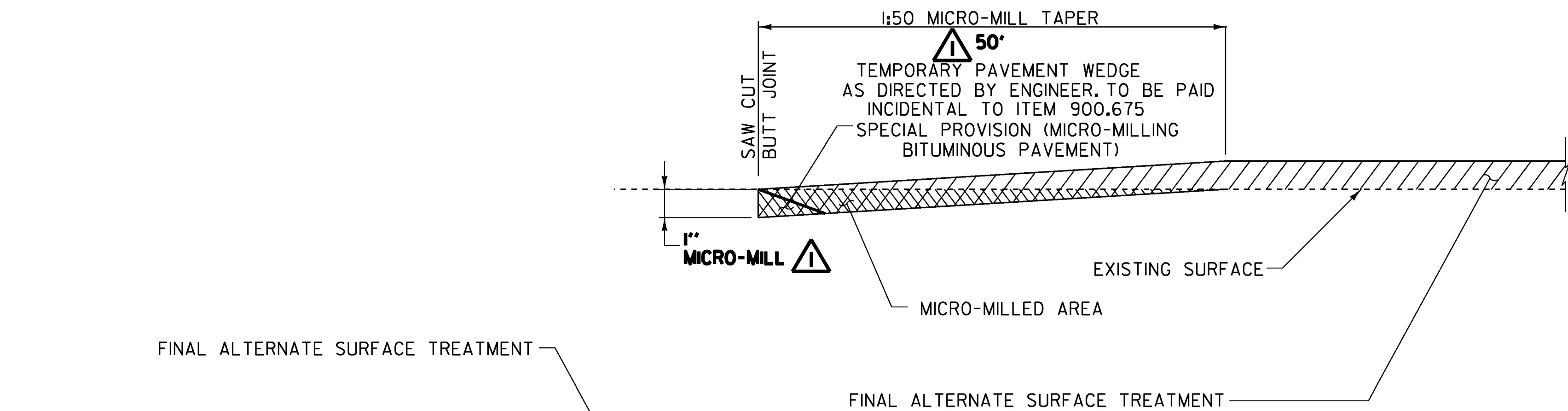


5. ALL TOWN HIGHWAY APPROACHES MAY BE PAVED WITH ITEM 406.25 BITUMINOUS CONCRETE PAVEMENT, TYPE IV, 406.27 MEDIUM DUTY BITUMINOUS CONCRETE PAVEMENT, TYPE IV, OR 490.30 SUPERPAVE BITUMINOUS CONCRETE PAVEMENT, TYPE IVS AT THE DISCRETION OF THE ENGINEER. THIS MATERIAL SHALL BE FROM AN APPROVED SOURCE WITH EITHER A PREVIOUSLY APPROVED MIX DESIGN OR A MIX DESIGN APPROVAL OBTAINED FOR THE INTENDED PRODUCT. THE SUBSTITUTION OF ITEMS 406.25, 406.27 OR 490.30 SHALL BE PAID AT THE CONTRACT UNIT PRICE OF THE LOW BID PAVEMENT ALTERNATE.

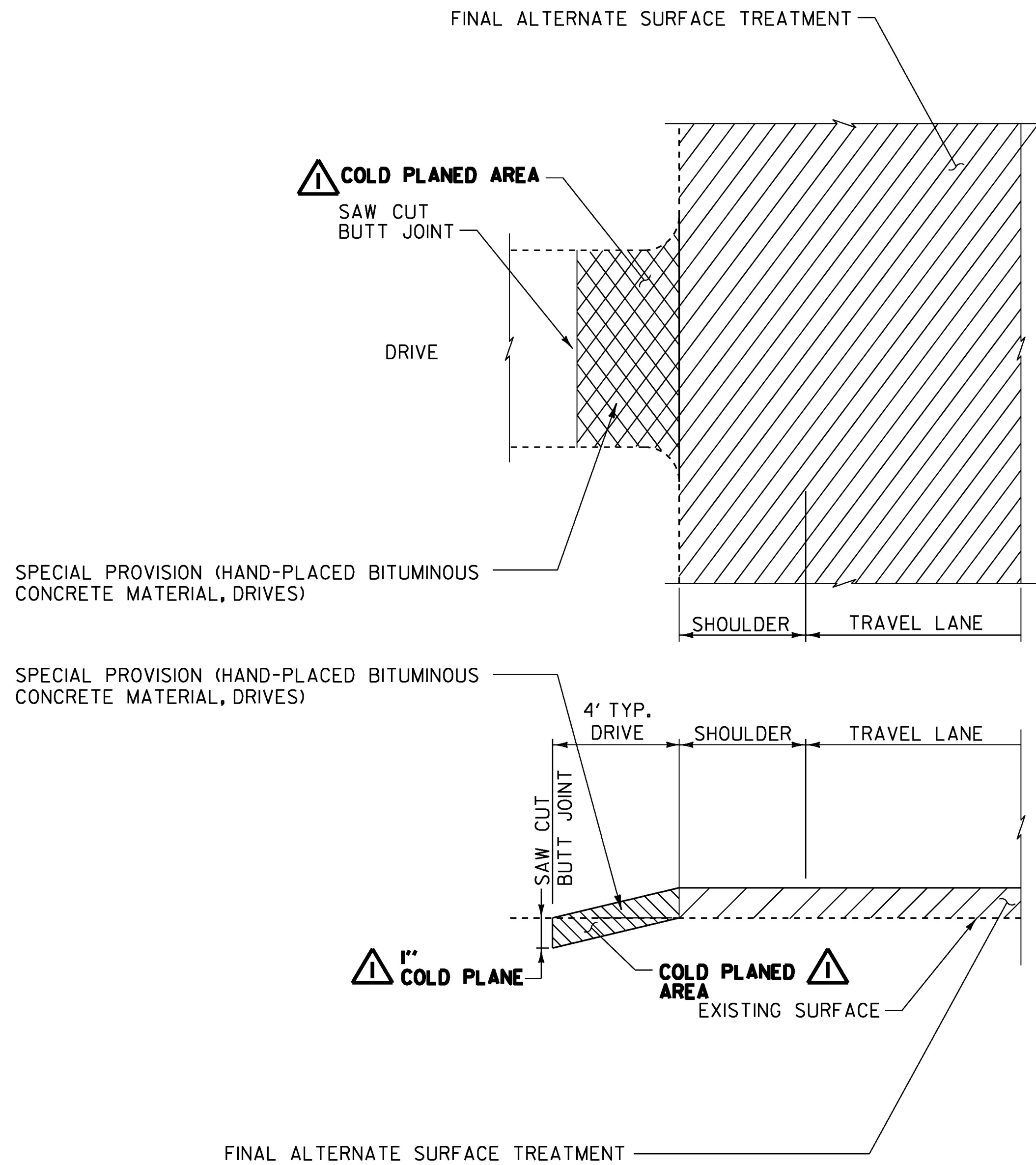
REVISION	DATE	DESCRIPTION	BY
	01-27-16	ADDED NOTE 5	KML

PROJECT NAME: JOHNSON - HYDE PARK, BELVIDERE - BERKSHIRE	
PROJECT NUMBER: STP SURF(52), STP SURF(53)	
FILE NAME: I4v204\pi4v204.dgn\pi4v204_06.1 PLOT DATE: 26-JAN-2016	
PROJECT LEADER: M. FOWLER	DRAWN BY: K. LOCKE
DESIGNED BY: K. LOCKE	CHECKED BY: M. FOWLER
NOTES COMMON TO BOTH ALTERNATES	SHEET 6 OF 45



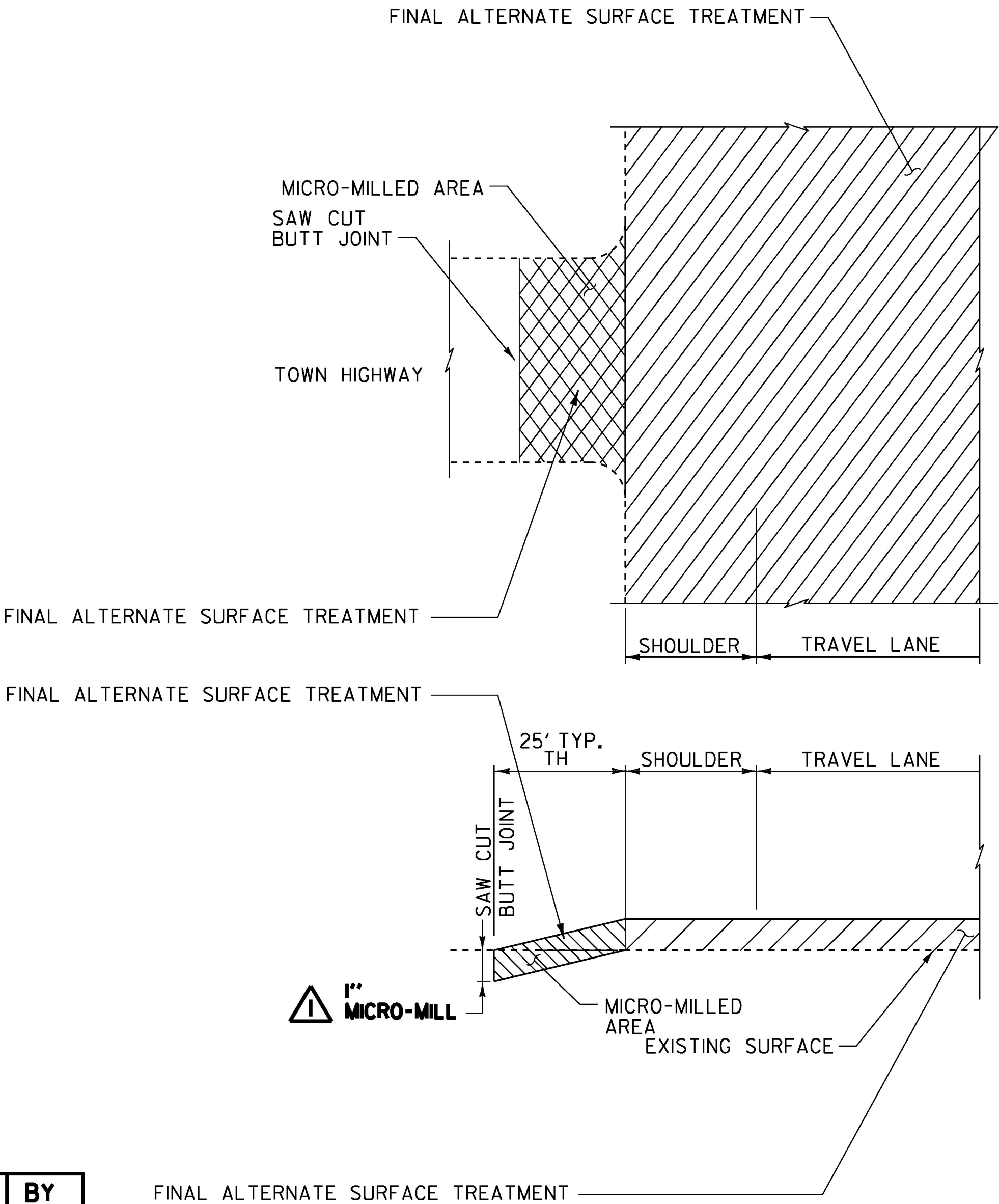


**MICRO-MILL DETAIL AT BEGIN/END APPROACH**  
 VT 118 BELVIDERE MM 0.560  
 VT 118 MONTGOMERY MM 5.565 (MIRROR IMAGE)



- NOTES:**
1. COLD PLANING FOR DRIVES SHALL MEET THE REQUIREMENTS OF SECTION 210 AS APPLICABLE.
  2. PAYMENT FOR COLD PLANED AREA REQUIRED FOR DRIVES SHALL BE CONSIDERED INCIDENTAL TO SPECIAL PROVISION (HAND-PLACED BITUMINOUS CONCRETE MATERIAL, DRIVES).

REVISION	DATE	DESCRIPTION	BY
1	01-27-16	CHANGED MICRO-MILL DEPTH TO 1" FROM 3/4". CHANGED MICRO-MILL DETAILS AT DRIVES TO COLD PLANE DETAILS AT DRIVES AND ADDED ASSOCIATED NOTES.	KML

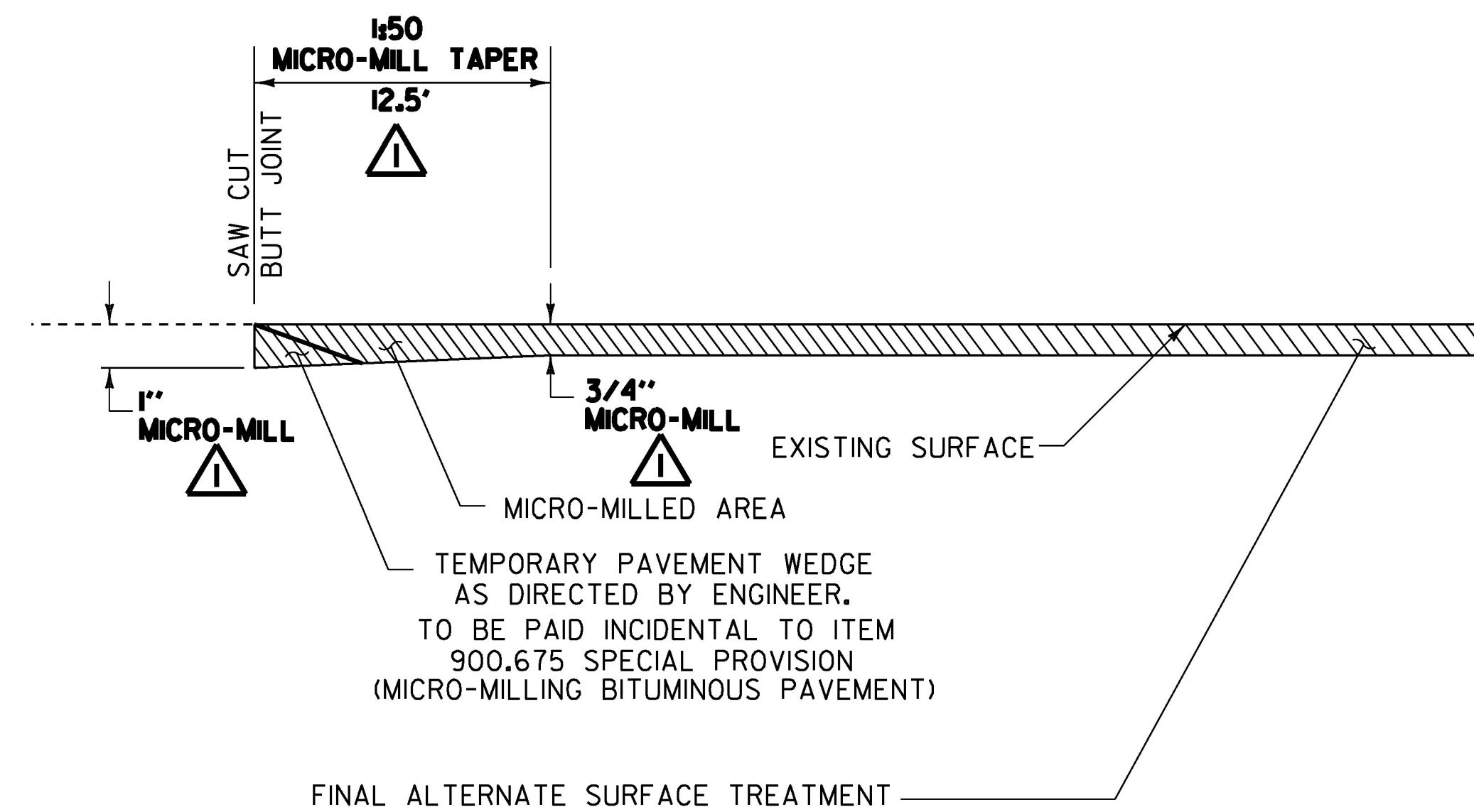


**MICRO-MILL DETAILS AT TOWN HIGHWAYS**

PROJECT NAME:	JOHNSON - HYDE PARK, BELVIDERE - BERKSHIRE
PROJECT NUMBER:	STP SURF(52), STP SURF(53)
FILE NAME:	I4v204\pi4v204.dgn\pi4v204_07.1
PLOT DATE:	26-JAN-2016
PROJECT LEADER:	M. FOWLER
DRAWN BY:	K. LOCKE
DESIGNED BY:	K. LOCKE
CHECKED BY:	M. FOWLER
MICRO-MILL DETAILS SHEET 1	SHEET 7 OF 45

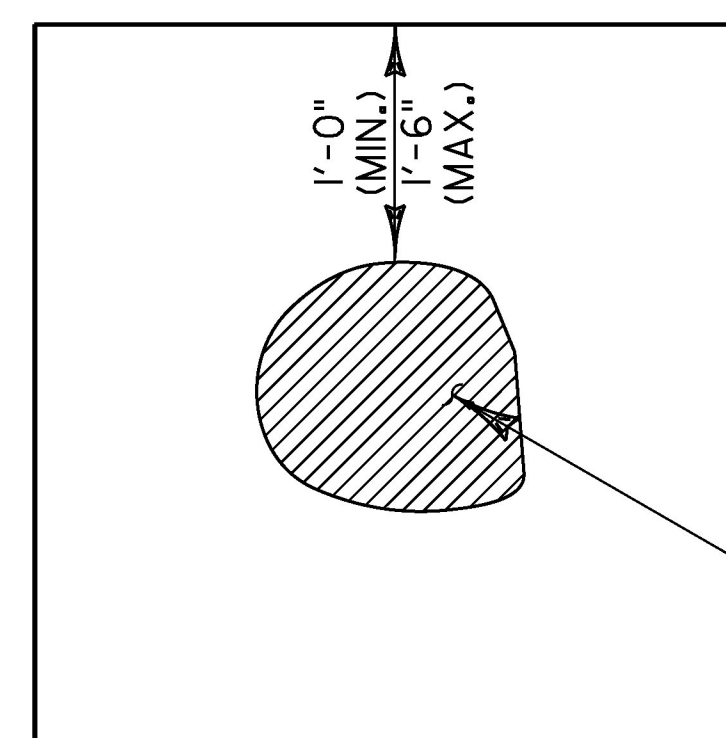
NOT TO SCALE





# **MICRO-MILL DETAIL AT BEGIN/END APPROACH**

VT 100C JOHNSON MM 0.025  
 VT 100C JOHNSON MM 0.928 (MIRROR IMAGE)  
 VT 118 BERKSHIRE MM 1.565 (MIRROR IMAGE)



SAW CUT BITUMINOUS  
 CONCRETE PAVEMENT

1.) EMULSIFIED ASPHALT SHALL BE APPLIED AT ALL PATCH  
 INTERFACES AT A RATE OF 0.25 - 0.50 GAL/SY. EMULSIFIED  
 ASPHALT SHALL MEET THE REQUIREMENTS OF SECTION 404 AND  
 WILL BE CONSIDERED INCIDENTAL TO ITEM 900.680 SPECIAL PROVISION  
 (BITUMINOUS CONCRETE PAVEMENT SURFACE PREPARATION, TYPE I)  
 2.) ALL WORK ASSOCIATED WITH POT HOLE REPAIR WILL BE PAID UNDER  
 ITEM 900.680 SPECIAL PROVISION (BITUMINOUS CONCRETE PAVEMENT  
 SURFACE PREPARATION, TYPE I).

EXISTING POT HOLE  
 3/4" MIN. DEPTH OR  
 AS DIRECTED BY THE  
 ENGINEER

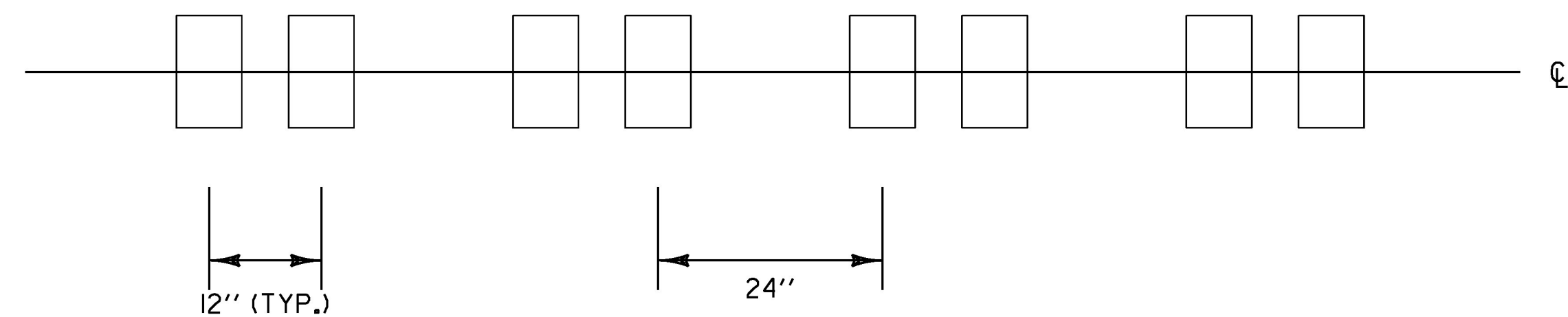
# **TYPICAL - POT HOLE REPAIR**

REVISION	DATE	DESCRIPTION	BY
1	01-27-16	REVISED DETAIL TO TRANSITION FROM 1" TO 3/4".	KML

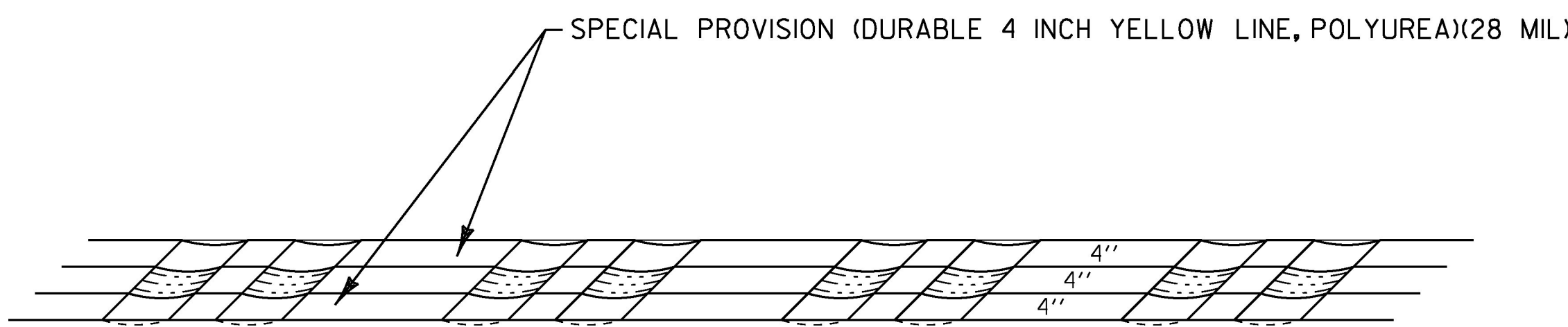
**NOT TO SCALE**

PROJECT NAME:	JOHNSON - HYDE PARK, BELVIDERE - BERKSHIRE
PROJECT NUMBER:	STP SURF(52), STP SURF(53)
FILE NAME:	I4v204\pi4v204.dgn\pi4v204_08.1
PLOT DATE:	26-JAN-2016
PROJECT LEADER:	M. FOWLER
DRAWN BY:	K. LOCKE
DESIGNED BY:	K. LOCKE
CHECKED BY:	M. FOWLER
MICRO-MILL DETAILS SHEET 2	SHEET 8 OF 45

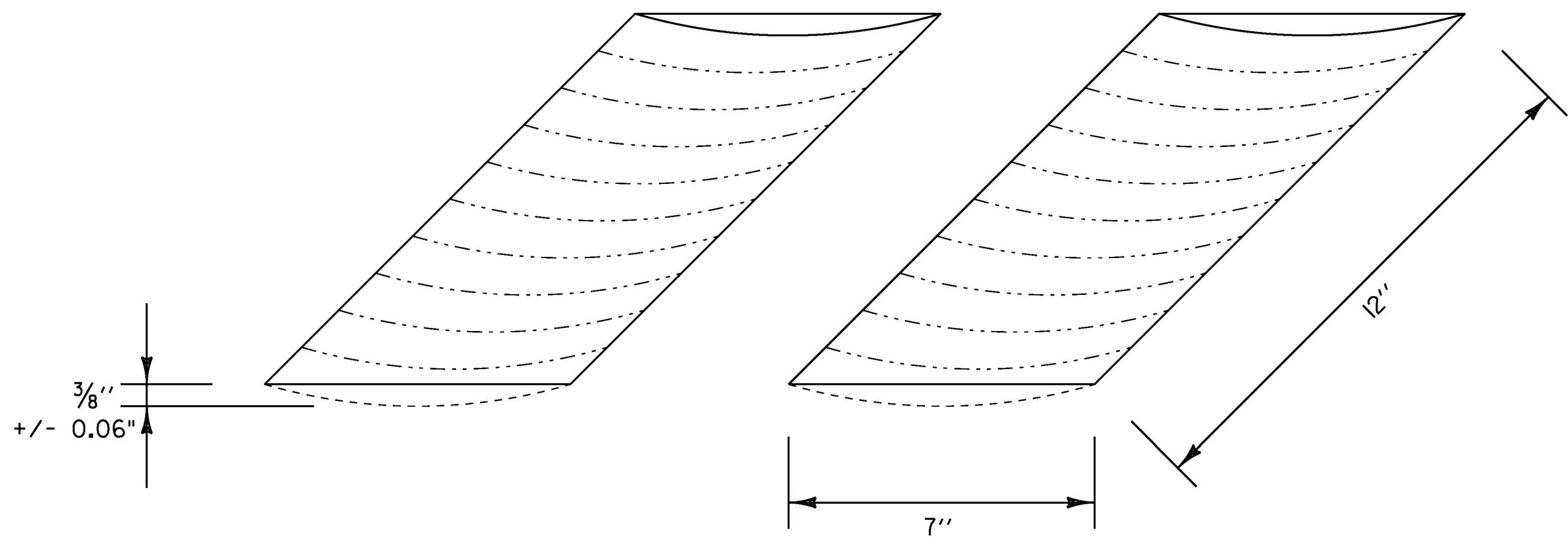




**RUMBLE STRIP LAYOUT**



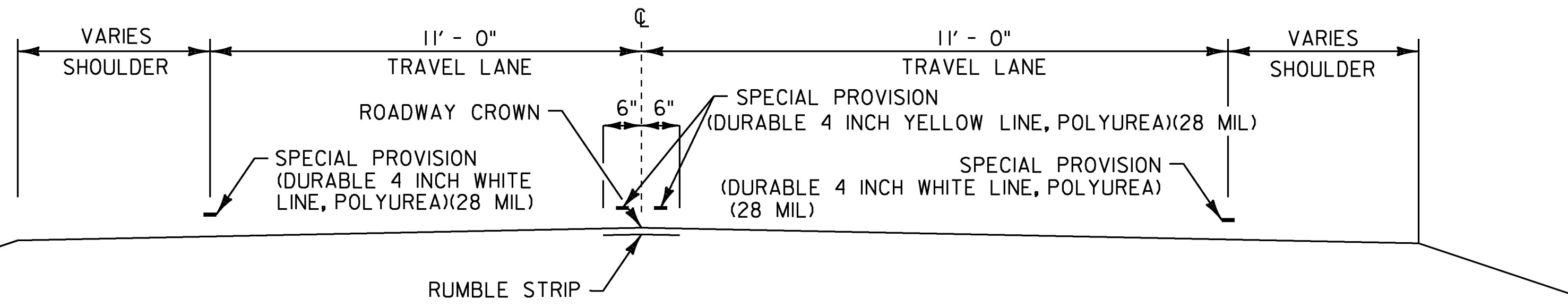
**PAVEMENT MARKINGS DETAIL**



**RUMBLE STRIP DETAIL**

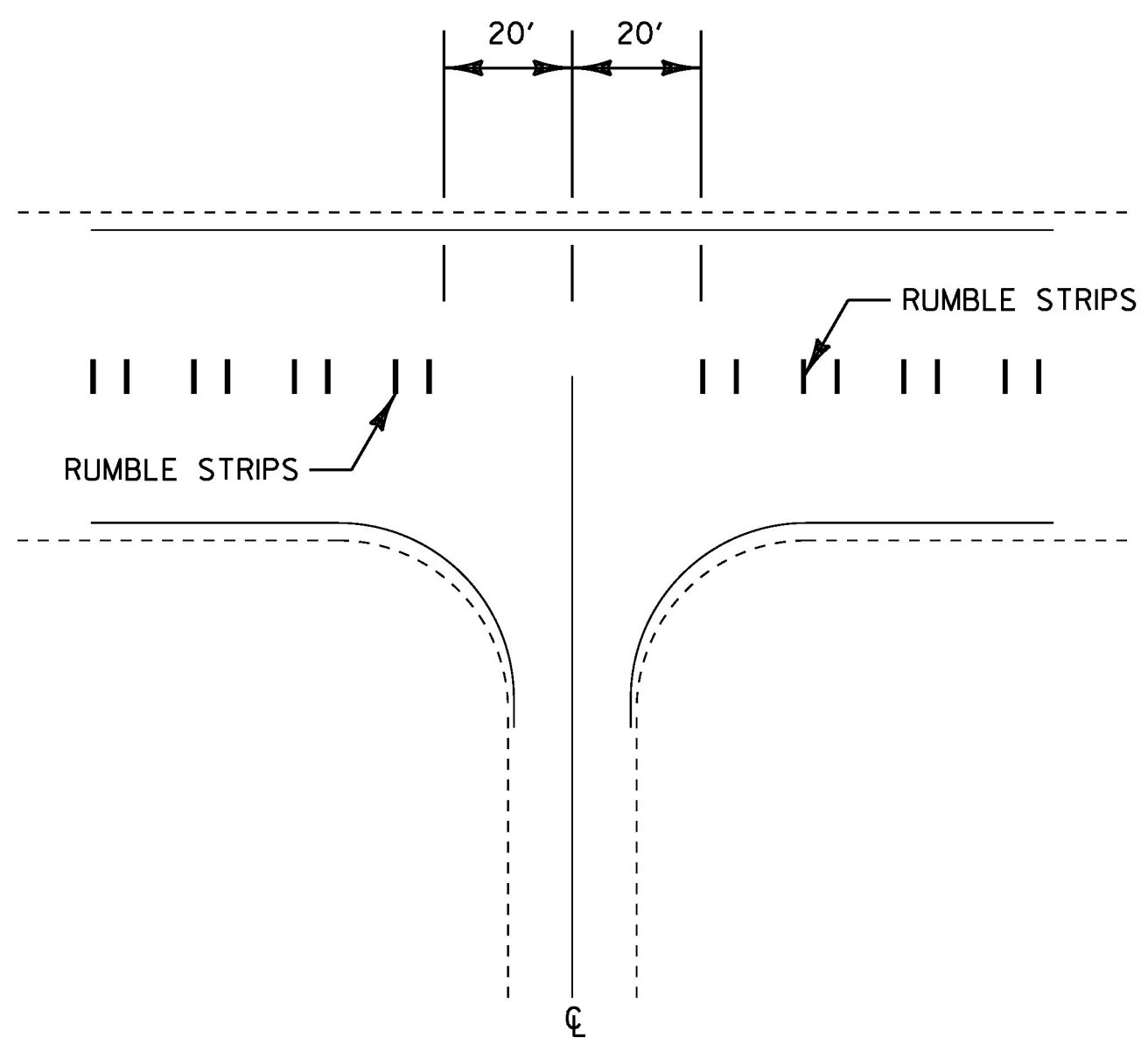
RUMBLE STRIP NOTES

1. CENTERLINE RUMBLE STRIPS SHALL NOT EXTEND BEYOND CENTERLINE WHEN CENTERLINE IS A DOUBLE YELLOW LINE, WITH OR WITHOUT A PASSING ZONE.
2. CENTERLINE RUMBLE STRIPS SHALL BE PLACED ALONG CENTERLINE OF ROADWAY.
3. CENTERLINE RUMBLE STRIPS SHALL STOP 20 FEET PRIOR TO THE CENTERLINE OF AN INTERSECTION.
4. 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.



**MILLED RUMBLE STRIPS TYPICAL SECTION**

LOCATION	
JOHNSON VT 100C:	MM 1.508 - MM 1.634
	MM 1.805 - MM 2.028
	MM 2.098 - MM 2.259
	MM 2.461 - MM 2.625
	MM 2.677 - MM 2.861
	MM 3.244 - MM 3.410
MONTGOMERY VT 118:	MM 3.456 - MM 3.581
	MM 8.420 - MM 8.773
	MM 8.819 - MM 9.166
	MM 9.226 - MM 9.441
	MM 9.636 - MM 10.147
	MM 10.207 - MM 10.464
ENOSBURG VT 118:	MM 0.000 - MM 0.158
	MM 0.266 - MM 0.532
	MM 0.582 - MM 0.750
	MM 0.829 - MM 0.987
BERKSHIRE VT 118:	MM 0.000 - MM 0.026
	MM 0.281 - MM 0.385
	MM 0.434 - MM 0.538
	MM 0.589 - MM 0.693



**INTERSECTION DETAIL**

NOT TO SCALE

PROJECT NAME: JOHNSON - HYDE PARK, BELVIDERE - BERKSHIRE	
PROJECT NUMBER: STP SURF(52), STP SURF(53)	
FILE NAME: 4v204\pi4v204.dgn\pi4v204.08A.i	PLOT DATE: 04-NOV-2015
PROJECT LEADER: M. FOWLER	DRAWN BY: K. LOCKE
DESIGNED BY: K. LOCKE	CHECKED BY: M. FOWLER
CENTERLINE RUMBLE STRIP DETAIL SHEET	SHEET 8A OF 45



# COMPOSITE QUANTITY SHEET 1

**STATE OF VERMONT**  
**AGENCY OF TRANSPORTATION**

## SUMMARY OF ESTIMATED QUANTITIES

JOHNSON - HYDE PARK STP SURF(52)						BELVIDERE - BERKSHIRE STP SURF(53)									
	ROADWAY ALT. A	ROADWAY ALT. B	BRIDGE	ROADWAY	FULL C.E.	ROADWAY ALT. A	ROADWAY ALT. B	BRIDGE	ROADWAY	FULL C.E.	QUANTITIES GRAND TOTAL	UNIT	ITEMS	ITEM NO.	ROUNDING
													BEGIN ITEMS COMMON TO ALL ALTERNATES		
				7,750					29,500		37,250	LF	SHOULDER BERM REMOVAL	203.40	EST
				1					1		2	CY	TRENCH EXCAVATION OF EARTH, EXPLORATORY (N.A.B.I.)	204.22	-
				6,065					14,810		20,875	LF	MILLED RUMBLE STRIPS (CENTERLINE)	213.10	EST
													BEGIN OPTION AA		
				450					1,500		1,950	TONS	AGGREGATE SHOULDERS	402.12	192
				450					1,500		1,950	TONS	AGGREGATE SHOULDERS, RAP	402.13	192
													END OPTION AA		
				1					1		2	LU	PRICE ADJUSTMENT, ASPHALT CEMENT (N.A.B.I.)	406.50	-
				4,750					15,500		20,250	LB	BITUMINOUS CRACK SEALING, "BLOW AND GO" METHOD (AASHTO M 324 (ASTM D 6690) TYPE II)	417.20	511
			80					520			600	LF	BRIDGE EXPANSION JOINT, ASPHALTIC PLUG	516.10	10
								250			250	LF	BRIDGE EXPANSION JOINT, ASPHALTIC PLUG (ø FINGER PLATE/VERMONT JOINT)	516.10	6
			50					50			100	CF	RAPID SETTING CONCRETE REPAIR MATERIAL WITH COARSE AGGREGATE	580.20	EST
				2					20		22	EA	CHANGING ELEVATION OF DI, CB, OR MH	604.40	-
				50					100		150	HR	POWER BROOM RENTAL, TYPE I	608.30	EST
				100					100		200	HR	POWER BROOM RENTAL, TYPE II	608.31	EST
				100					100		200	HR	TRUCK RENTAL	608.37	EST
									3		3	EA	ADJUST ELEVATION OF VALVE BOX	629.20	-
				200					450		650	HR	UNIFORMED TRAFFIC OFFICERS	630.10	EST
				1,000					2,250		3,250	HR	FLAGGERS	630.15	EST
					0.5					0.5	1	LS	FIELD OFFICE, ENGINEERS	631.10	-
					0.5					0.5	1	LS	TESTING EQUIPMENT, BITUMINOUS	631.17	-
					1,500					1,500	3,000	DL	FIELD OFFICE TELEPHONE (N.A.B.I.)	631.26	-
				0.5					0.5		1	LS	MOBILIZATION/DEMObILIZATION	635.11	-
				1							1	LS	TRAFFIC CONTROL (STP SURF(52))	641.10	-
									1		1	LS	TRAFFIC CONTROL (STP SURF(53))	641.10	-
				4					5		9	EA	PORTABLE CHANGEABLE MESSAGE SIGN	641.15	EST
													BEGIN OPTION BB		
				170					360		530	LF	DURABLE 24 INCH STOP BAR, THERMOPLASTIC	646.482	EST
				170					360		530	LF	SPECIAL PROVISION (DURABLE 24 INCH STOP BAR, POLYUREA) (28 MIL)	900.640	EST
													END OPTION BB		
													BEGIN OPTION CC		
				58					89		147	EA	DURABLE LETTER OR SYMBOL, THERMOPLASTIC	646.492	-
				58					89		147	EA	SPECIAL PROVISION (DURABLE LETTER OR SYMBOL, POLYUREA) (28 MIL)	900.620	-
													END OPTION CC		

## DETAILED SUMMARY OF QUANTITIES

[illegible]

PROJECT NAME: JOHNSON - HYDE PARK, BELVIDERE - BERKSHIRE  
PROJECT NUMBER: STP SURF(52), STP SURF(53)

FILE NAME: I4v204\pl4v204.dgn\pl4v204_09.i PLOT DATE: 04-NOV-2015  
PROJECT LEADER: M. FOWLER DRAWN BY: K. LOCKE  
DESIGNED BY: K. LOCKE CHECKED BY: M. FOWLER  
COMPOSITE QUANTITY SHEET 1 SHEET 9 OF 45



# COMPOSITE QUANTITY SHEET 2

**STATE OF VERMONT**  
**AGENCY OF TRANSPORTATION**

## SUMMARY OF ESTIMATED QUANTITIES

[illegible]

## DETAILED SUMMARY OF QUANTITIES

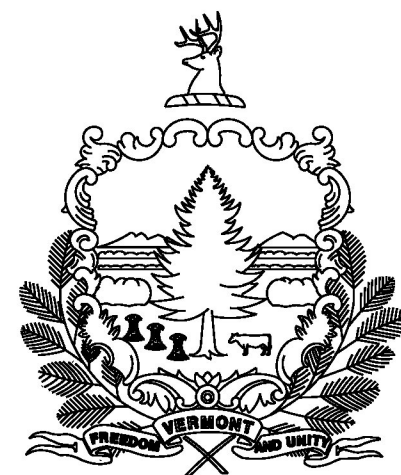
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PROJECT NAME: JOHNSON - HYDE PARK, BELVIDERE - BERKSHIRE  
PROJECT NUMBER: STP SURF(52), STP SURF(53)

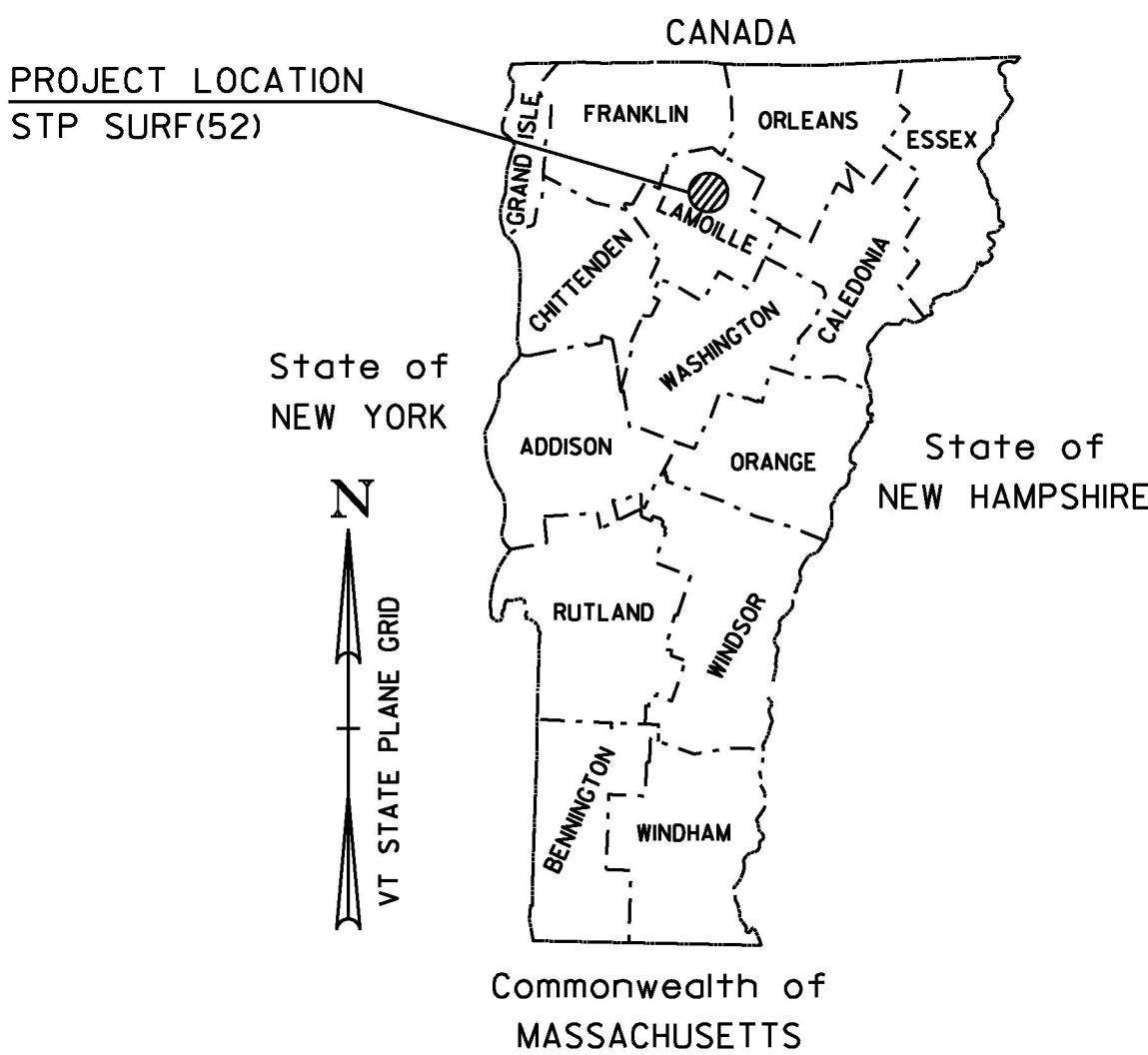
FILE NAME: I4v204\pl4v204.dgn\pl4v204_10.i PLOT DATE: 05-NOV-20  
PROJECT LEADER: M. FOWLER DRAWN BY: K. LOCKE  
DESIGNED BY: K. LOCKE CHECKED BY: M. FOWLER  
COMPOSITE QUANTITY SHEET 2 SHEET 10 OF 45



STATE OF VERMONT  
AGENCY OF TRANSPORTATION



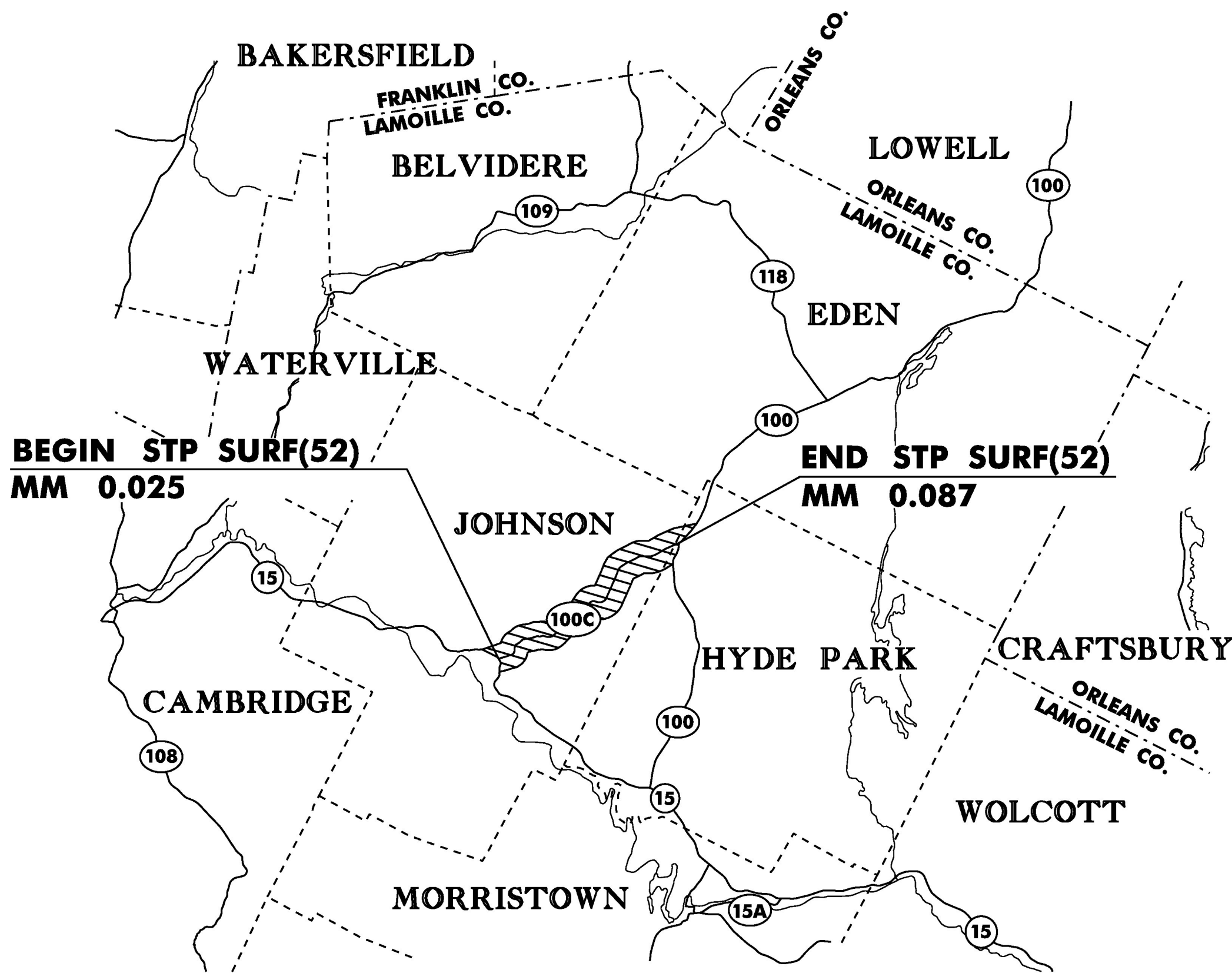
PROPOSED IMPROVEMENT  
TOWNS OF JOHNSON & HYDE PARK  
COUNTY OF LAMOILLE  
VT ROUTE 100C (MAJOR COLLECTOR)



BEGINNING IN THE TOWN OF JOHNSON AT THE VT 15/VT 100C JCT AT MILE MARKER 0.025 AND EXTENDING NORTHERLY ALONG VT ROUTE 100C FOR A DISTANCE OF 24,132.60 FT (4.571MILES) TO MILE MARKER 0.087 (VT 100C/VT 100 JCT) IN THE TOWN OF HYDE PARK.

LENGTH OF ROADWAY = 24,132.60 FT = (4.571MILES)  
LENGTH OF PROJECT = 24,132.60 FT = (4.571MILES)

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



TRAFFIC DATA

VT 100C	2015 AADT	2025 AADT	2015 DHV	2025 DHV	FLEXIBLE ESALS (2015-2025)	FLEXIBLE ESALS (2015-2035)
BEGIN PROJECT TO END PROJECT	2,800	2,900	320	330	1,017,000	2,489,000

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.

QUALITY ASSURANCE PROGRAM : LEVEL 3

SURVEYED BY : N/A  
SURVEYED DATE : N/A

DATUM  
VERTICAL N/A  
HORIZONTAL N/A

PROJECT MANAGER : MICHAEL J. FOWLER, P.E.

PROJECT NAME : JOHNSON - HYDE PARK  
PROJECT NUMBER : STP SURF (52)

SHEET 11 OF 45 SHEETS

NOT TO SCALE



# QUANTITY SHEET 1

**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 ITEMS COMMON TO ALL ALTERNATES		
			7,750		7,750	LF	SHOULDER BERM REMOVAL	203.40	EST
			I		I	CY	TRENCH EXCAVATION OF EARTH, EXPLORATORY (N.A.B.I.)	204.22	-
			6,065		6,065	LF	MILLED RUMBLE STRIPS (CENTERLINE)	213.10	EST
							BEGIN OPTION AA		
			450		450	TON	AGGREGATE SHOULDERS	402.12	44
			450		450	TON	AGGREGATE SHOULDERS, RAP	402.13	44
							END OPTION AA		
			I		I	LU	PRICE ADJUSTMENT, ASPHALT CEMENT (N.A.B.I.)	406.50	-
			4,750		4,750	LB	BITUMINOUS CRACK SEALING, "BLOW AND GO" METHOD (AASHTO M 324 (ASTM D 6690) TYPE II)	417.20	185
		80			80	LF	BRIDGE EXPANSION JOINT, ASPHALTIC PLUG	516.10	4
		50			50	CF	RAPID SETTING CONCRETE REPAIR MATERIAL WITH COARSE AGGREGATE	580.20	EST
			2		2	EA	CHANGING ELEVATION OF DI, CB, OR MH	604.40	-
			50		50	HR	POWER BROOM RENTAL, TYPE I	608.30	EST
			100		100	HR	POWER BROOM RENTAL, TYPE II	608.31	EST
			100		100	HR	TRUCK RENTAL	608.37	EST
			200		200	HR	UNIFORMED TRAFFIC OFFICERS	630.10	EST
			1,000		1,000	HR	FLAGGERS	630.15	EST
				0.5	0.5	LS	FIELD OFFICE, ENGINEERS	631.10	-
				0.5	0.5	LS	TESTING EQUIPMENT, BITUMINOUS	631.17	-
				1,500	1,500	DL	FIELD OFFICE TELEPHONE (N.A.B.I.)	631.26	-
			0.5		0.5	LS	MOBILIZATION/DEMOBILIZATION	635.11	-
			I		I	LS	TRAFFIC CONTROL (STP SURF(52))	641.10	-
			4		4	EA	PORTABLE CHANGEABLE MESSAGE SIGN	641.15	EST
							BEGIN OPTION BB		
			170		170	LF	DURABLE 24 INCH STOP BAR, THERMOPLASTIC	646.482	EST
			170		170	LF	SPECIAL PROVISION (DURABLE 24 INCH STOP BAR, POLYUREA) (28 MIL)	900.640	EST
							END OPTION BB		
							BEGIN OPTION CC		
			58		58	EA	DURABLE LETTER OR SYMBOL, THERMOPLASTIC	646.492	-
			58		58	EA	SPECIAL PROVISION (DURABLE LETTER OR SYMBOL, POLYUREA) (28 MIL)	900.620	-
							END OPTION CC		
			48,500		48,500	LF	TEMPORARY 4 INCH WHITE LINE, PAINT	646.602	EST
			46,000		46,000	LF	TEMPORARY 4 INCH YELLOW LINE, PAINT	646.612	EST
			170		170	LF	TEMPORARY 24 INCH STOP BAR, PAINT	646.682	EST
			58		58	EA	TEMPORARY LETTER OR SYMBOL, PAINT	646.692	-

[illegible][illegible]



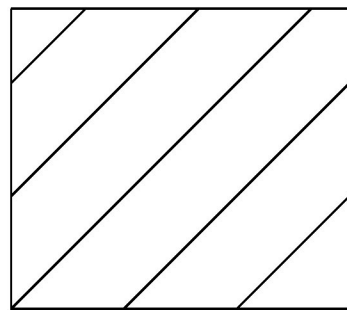
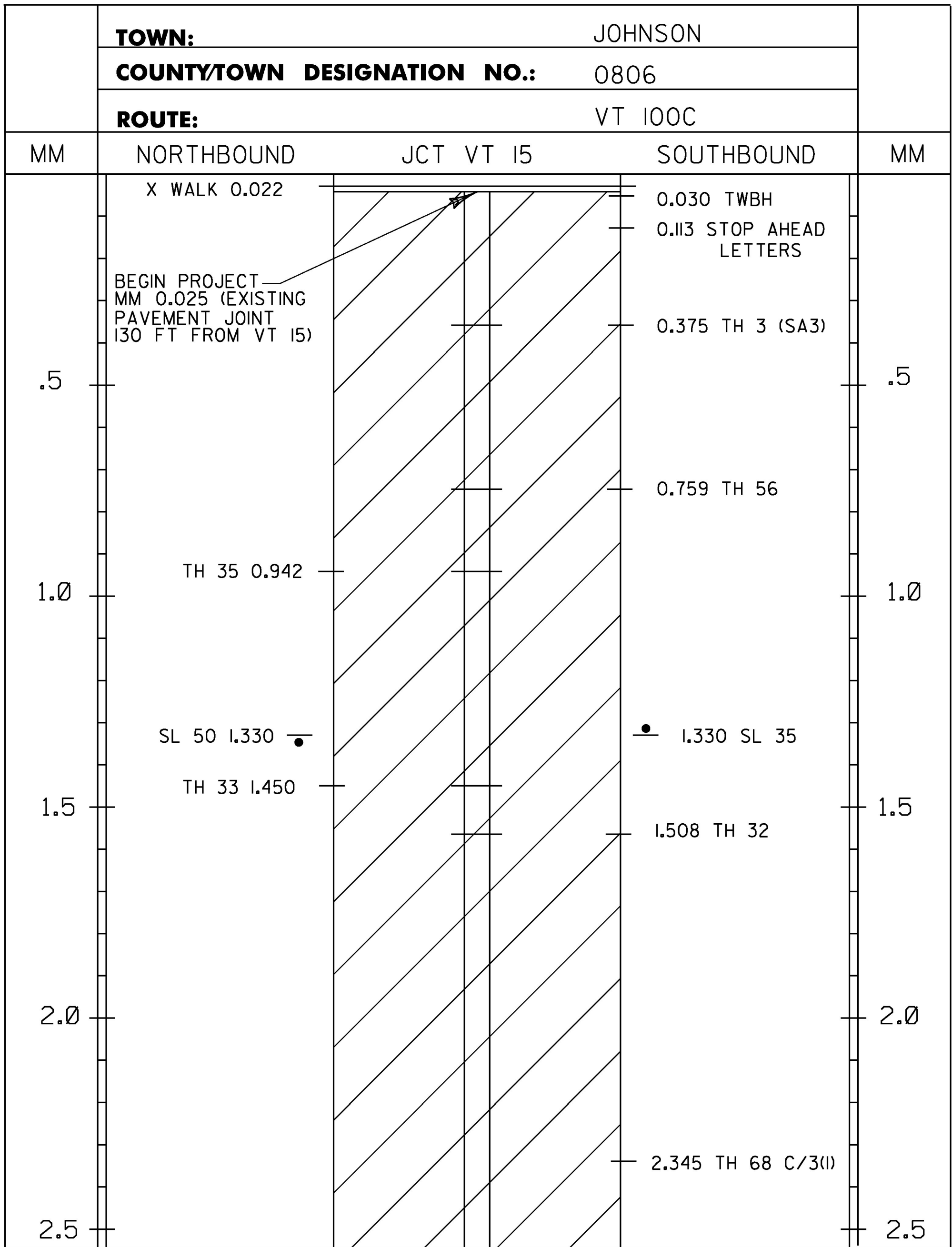
# QUANTITY SHEET 2

**STATE OF VERMONT**  
**AGENCY OF TRANSPORTATION**

[illegible][illegible][illegible]

PROJECT NAME: JOHNSON - HYDE PARK	
PROJECT NUMBER: STP SURF(52)	
FILE NAME: I4v204\pI4v204.dgn\pI4v204_I3.i	PLOT DATE: 05-NOV-2015
PROJECT LEADER: M. FOWLER	DRAWN BY: K. LOCKE
DESIGNED BY: K. LOCKE	CHECKED BY: M. FOWLER
QUANTITY SHEET 2	SHEET I3 OF 45





PROJECT AREA

LEGEND

TWBH-THROUGHWAY BEGINS HERE  
TWEH-THROUGHWAY ENDS HERE  
SHB-STATE HIGHWAY BEGINS  
SHE-STATE HIGHWAY ENDS  
SL-SPEED LIMIT  
SA - STATE AID TOWN HIGHWAY  
T/L-TOWN LINE  
C/3 - CLASS 3 TOWN HIGHWAY  
C/4 - CLASS 4 TOWN HIGHWAY

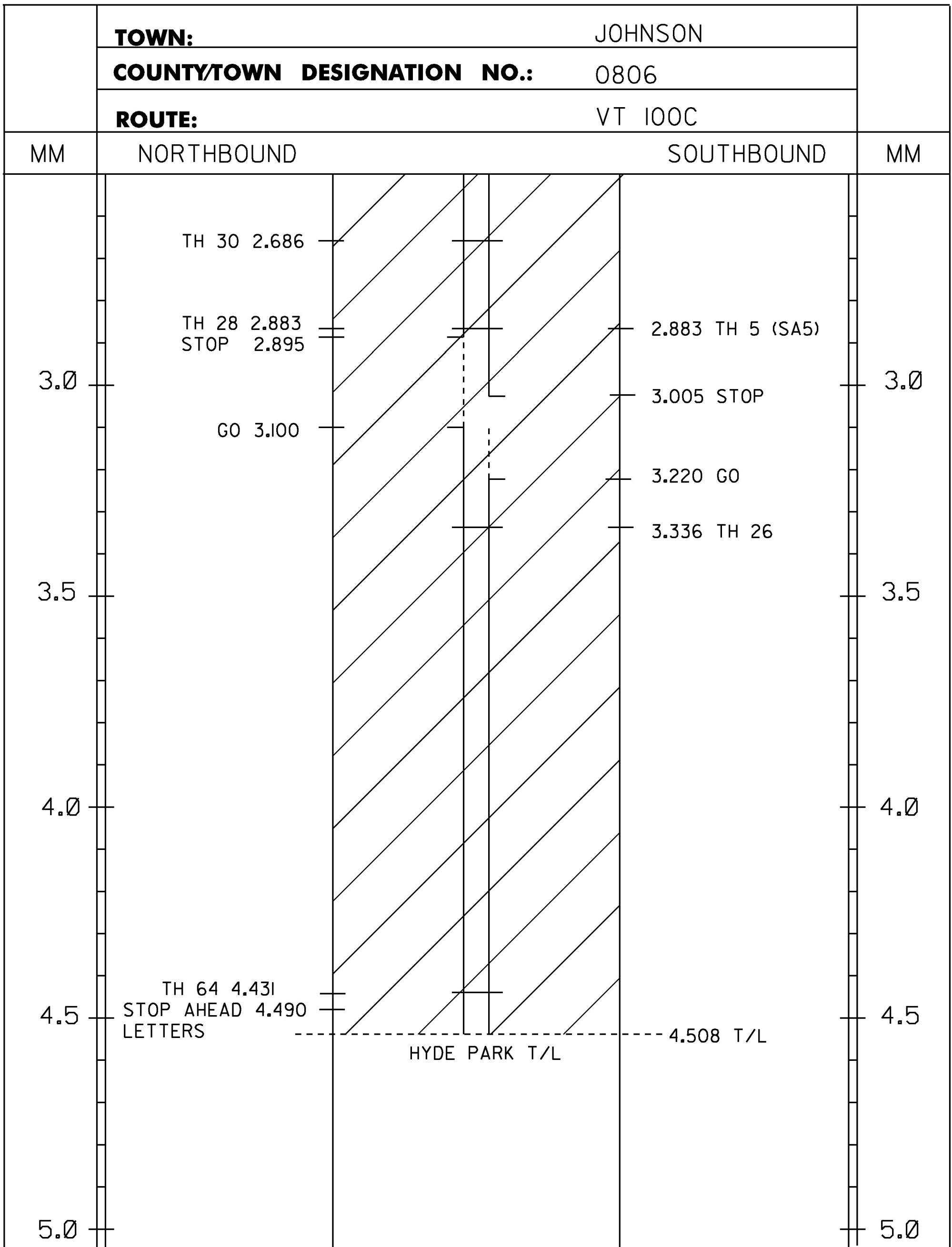
TEMPORARY 4 INCH WHITE LINE, PAINT  
SPECIAL PROVISION (DURABLE 4 INCH WHITE LINE, POLYUREA)(28 MIL)  
MM 0.025 - MM 4.508 LT & RT (EDGE LINES)  
(WITH BREAKS OR RADII AT TOWN HIGHWAYS)

TEMPORARY 4 INCH YELLOW LINE, PAINT  
SPECIAL PROVISION (DURABLE 4 INCH YELLOW LINE, POLYUREA)(28 MIL)

MM 0.025 - MM 2.895 SOLID LT & RT  
MM 2.895 - MM 3.005 SOLID LT, DASHED RT  
MM 3.005 - MM 3.100 DASHED CL  
MM 3.100 - MM 3.220 DASHED LT, SOLID RT  
MM 3.220 - MM 4.508 SOLID LT & RT  
(WITH CL BREAKS AT TOWN HIGHWAYS)

TEMPORARY LETTER OR SYMBOL, PAINT  
DURABLE LETTER OR SYMBOL, OPTION ITEM

MM 0.113 LT - "STOP AHEAD" (9 EACH)  
MM 4.490 RT - "STOP AHEAD" (9 EACH)  
FOR ADDITIONAL LETTERS & SYMBOLS LOCATIONS SEE  
TOWN/STATE HIGHWAY INVENTORY FOR PAVING AND MARKING  
TABLE ON SHEET 15.



NOTES:  
1. THIS SHEET TO BE USED FOR THE LAYOUT OF ALL CENTERLINE PAVEMENT MARKINGS.  
THE ENGINEER MAY CONTACT KEITH SWEET, PAVEMENT MARKING SUPERVISOR AT  
(802) 828-5573 FOR ASSISTANCE LAYING OUT THE CENTERLINE DURING CONSTRUCTION.

NOT TO SCALE

PROJECT NAME: JOHNSON - HYDE PARK

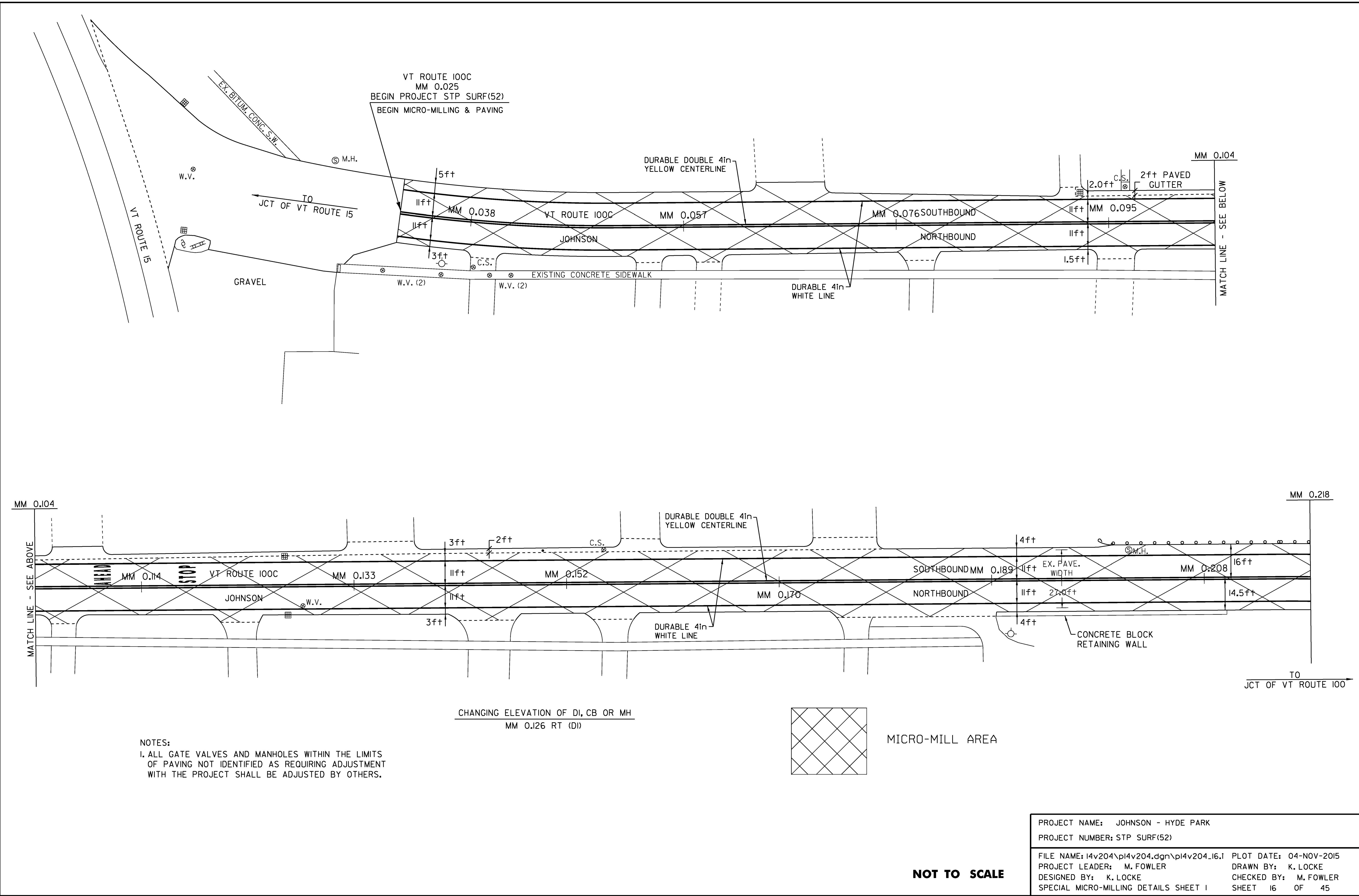
PROJECT NUMBER: STP SURF(52)

FILE NAME: I4v204\pi4v204.dgn\pi4v204.i4.t PLOT DATE: 04-NOV-2015  
PROJECT LEADER: M. FOWLER DRAWN BY: K. LOCKE  
DESIGNED BY: K. LOCKE CHECKED BY: M. FOWLER  
CENTERLINE MARKING LAYOUT SHEET 1 SHEET 14 OF 45

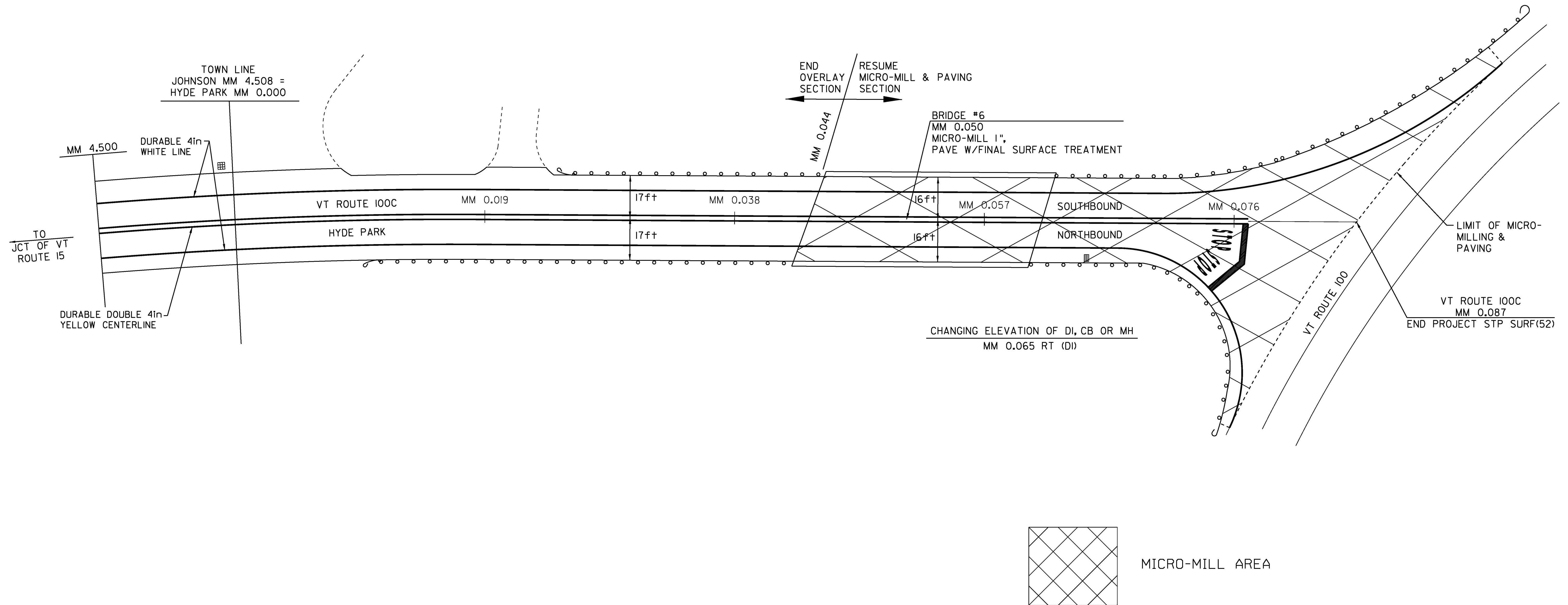








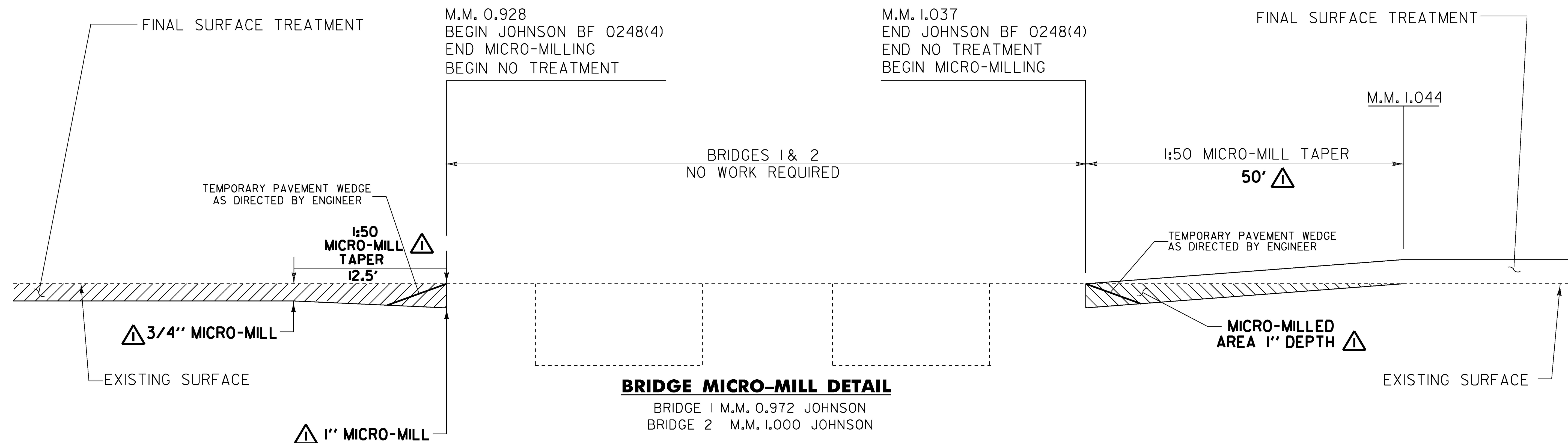




NOT TO SCALE

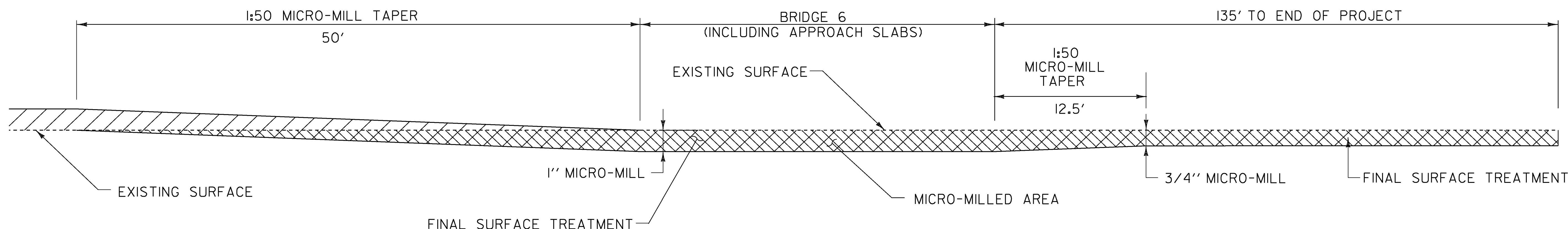
PROJECT NAME: JOHNSON - HYDE PARK	
PROJECT NUMBER: STP SURF(52)	
FILE NAME: I4v204\pi4v204.dgn\pi4v204_17.1	PLOT DATE: 04-NOV-2015
PROJECT LEADER: M. FOWLER	DRAWN BY: K. LOCKE
DESIGNED BY: K. LOCKE	CHECKED BY: M. FOWLER
SPECIAL MICRO-MILLING DETAILS SHEET 2	SHEET 17 OF 45





**BRIDGE MICRO-MILL DETAIL**

BRIDGE 1 M.M. 0.972 JOHNSON  
BRIDGE 2 M.M. 1.000 JOHNSON



**BRIDGE MICRO-MILL DETAIL**

BRIDGE 6 M.M. 0.054 HYDE PARK

**NOTES:**

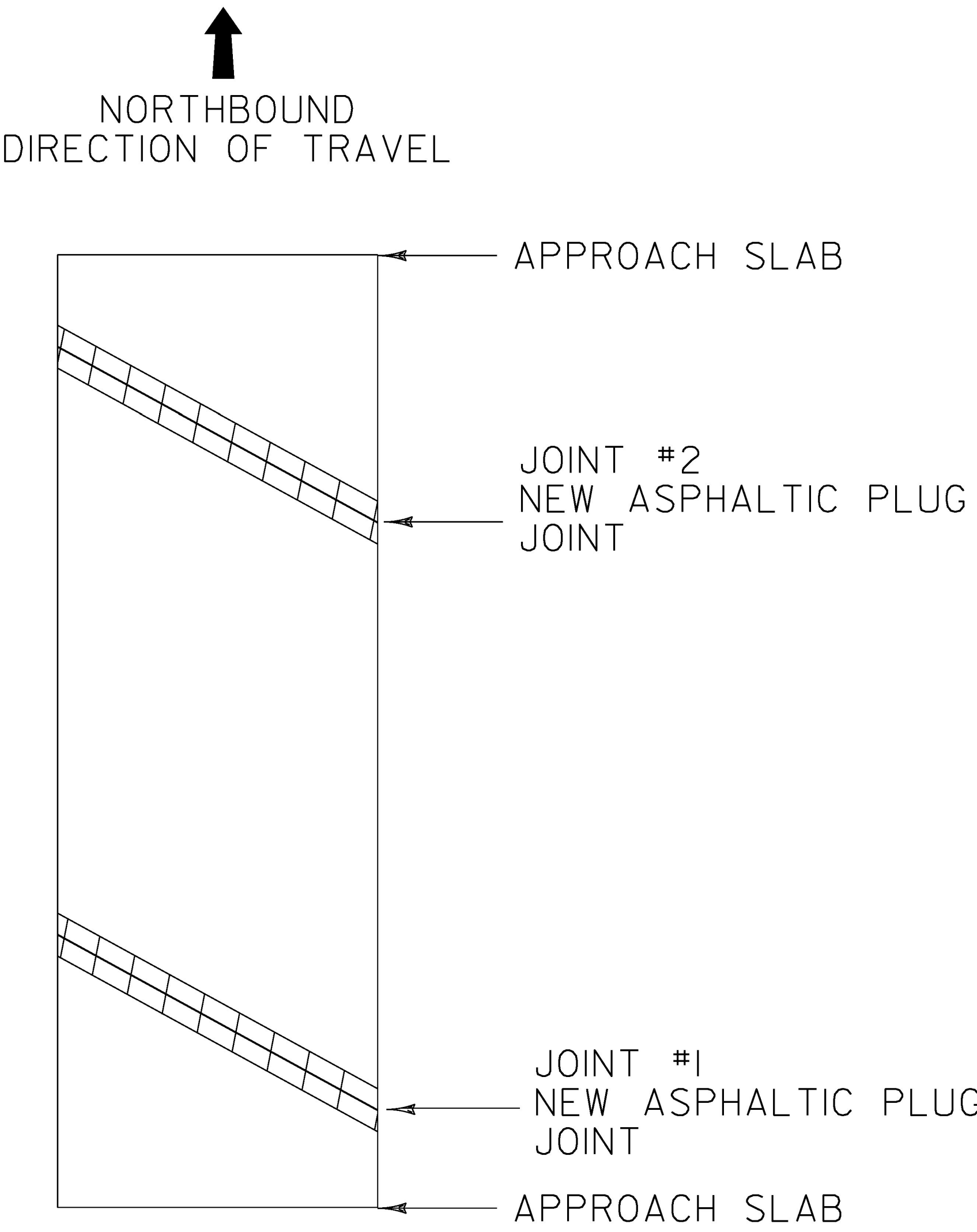
1. REFER TO ASPHALTIC PLUG JOINT DETAIL SHEET, SD-516.10. ALL NEW JOINTS WILL BE PAID FOR UNDER ITEM 516.10, "BRIDGE EXPANSION JOINT, ASPHALTIC PLUG."
2. THE CONTRACTOR SHALL TAKE PRECAUTIONS TO AVOID DAMAGING DRAINAGE STRUCTURES AND EXPANSION JOINTS. ANY DAMAGE CAUSED BY THE CONTRACTOR SHALL BE REPAIRED 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 MICRO-MILLING 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.

REVISION	DATE	DESCRIPTION	BY
1	01-27-16	CHANGED MICRO-MILL DEPTH TO 1" FROM 3/4". CHANGED MICRO-MILL TAPER LENGTHS.	KML

NOT TO SCALE

PROJECT NAME:	JOHNSON - HYDE PARK
PROJECT NUMBER:	STP SURF(52)
FILE NAME: I4v204\pi4v204.dgn\pi4v204.18.1	PLOT DATE: 26-JAN-2016
PROJECT LEADER: M. FOWLER	DRAWN BY: K. LOCKE
DESIGNED BY: K. LOCKE	CHECKED BY: M. FOWLER
BRIDGE DETAIL SHEET 1	SHEET 18 OF 45



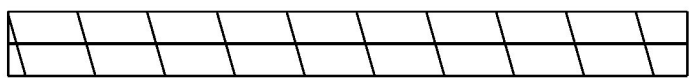


**BRIDGE 6**

MM 0.054 HYDE PARK

LENGTH OF ASPHALTIC PLUG JOINTS:  
JOINT #1 - 38' (MM 0.045)  
JOINT #2 - 38' (MM 0.063)  
TOTAL = 76'

**LEGEND**



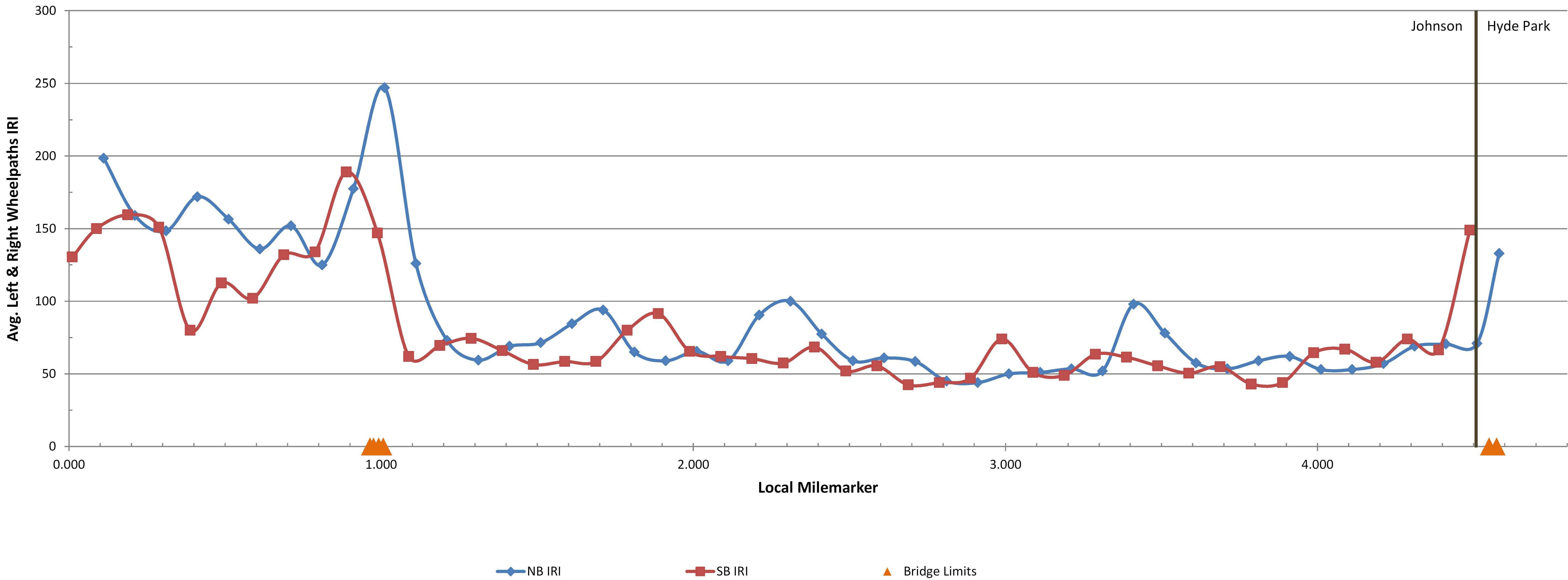
EXISTING BRIDGE JOINTS SHALL BE  
REPAIRED WITH ASPHALTIC PLUG JOINT

**NOT TO SCALE**

PROJECT NAME:	JOHNSON - HYDE PARK		
PROJECT NUMBER:	STP SURF(52)		
FILE NAME: I4v204\pi4v204.dgn\pi4v204.i9.t	PLOT DATE:	04-NOV-2015	
PROJECT LEADER: M. FOWLER	DRAWN BY:	K. LOCKE	
DESIGNED BY: K. LOCKE	CHECKED BY:	M. FOWLER	
BRIDGE DETAIL SHEET 2	SHEET	19	OF 45



VT 100C Johnson-Hyde Park STP SURF(52) PreCon IRI  
 Profiled 10/1/2015  
 NB Avg. IRI = 90.3 SB Avg. IRI = 80.1

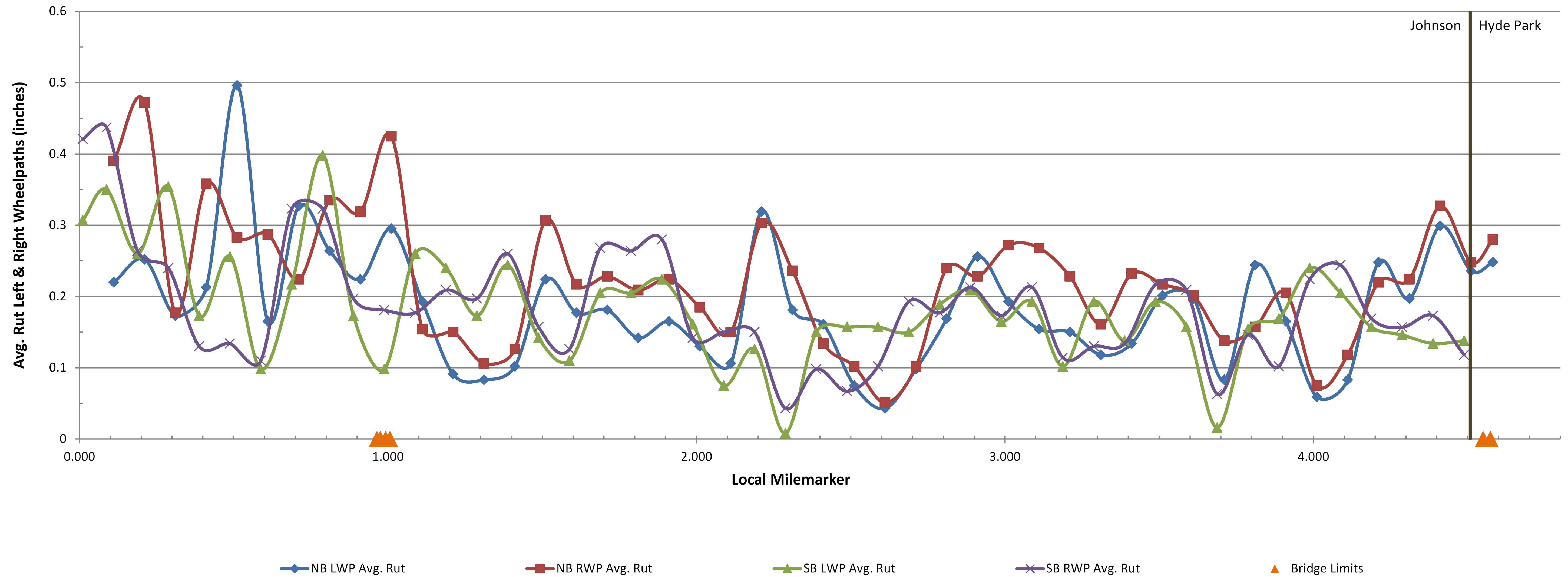


FOR INFORMATIONAL PURPOSES ONLY

PROJECT NAME:	JOHNSON - HYDE PARK		
PROJECT NUMBER:	STP SURF(52)		
FILE NAME: I4v204\pl4v204.dgn\pl4v204_20.i	PLOT DATE:	04-NOV-2015	
PROJECT LEADER: M. FOWLER	DRAWN BY:	K. LOCKE	
DESIGNED BY: K. LOCKE	CHECKED BY:	M. FOWLER	
ROUGHNESS DATA INFORMATION SHEET	SHEET	20	OF 45



VT 100C Johnson-Hyde Park STP SURF(52) PreCon Ruts  
Profiled 10/1/2015

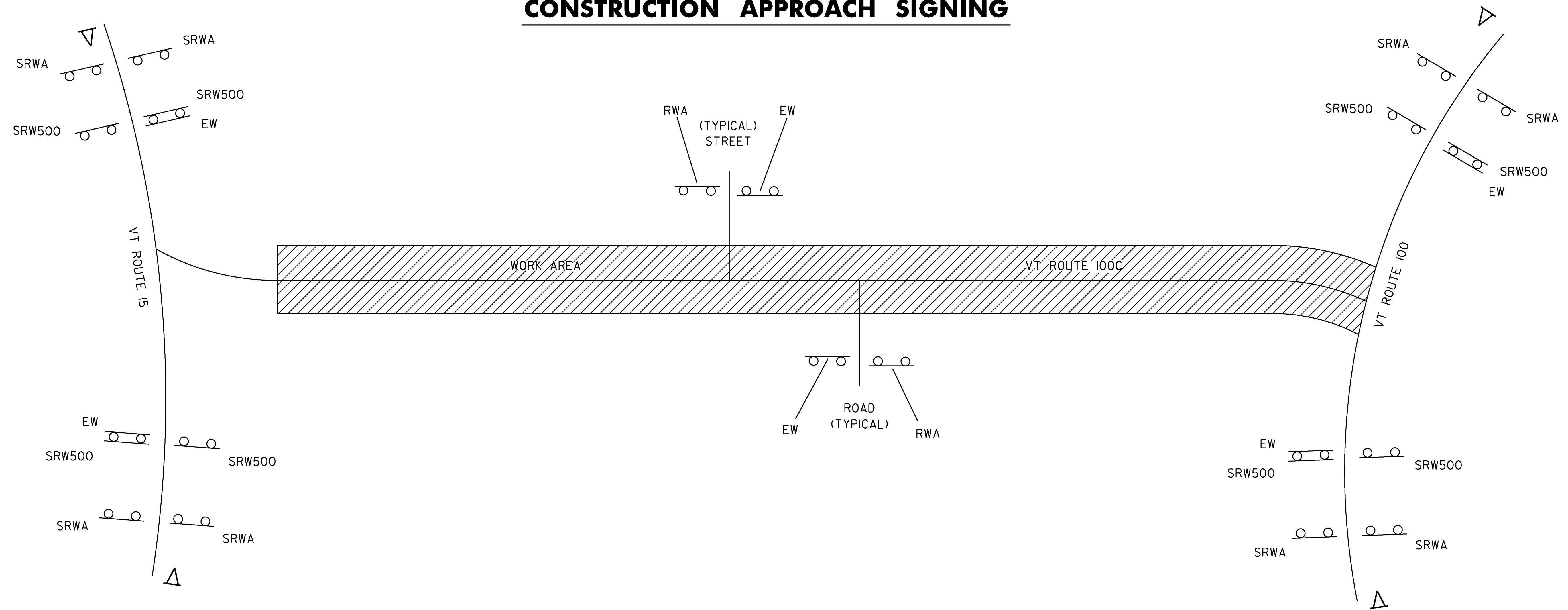


FOR INFORMATIONAL PURPOSES ONLY

PROJECT NAME:	JOHNSON - HYDE PARK		
PROJECT NUMBER:	STP SURF(52)		
FILE NAME: I4v204\pl4v204.dgn\pl4v204_21.i	PLOT DATE: 04-NOV-2015		
PROJECT LEADER: M. FOWLER	DRAWN BY: K. LOCKE		
DESIGNED BY: K. LOCKE	CHECKED BY: M. FOWLER		
RUTTING DATA INFORMATION SHEET	SHEET 21 OF 45		



CONSTRUCTION APPROACH SIGNING



LIST OF CONSTRUCTION SIGNS

TOWN HIGHWAY	RWA	EW	SRWA	SRW500
JOHNSON				
BEGIN PROJECT		2	4	4
SCHOOL ROAD				
TH #56				
SINCLAIR ROAD				
ROCKY ROAD				
HOAG ROAD				
WHITCOMB ISLAND ROAD				
MINE ROAD				
WILSON ROAD				
OBER HILL ROAD				
BRADLEY ROAD				
HYDE PARK				
END PROJECT		2	4	4
TOTALS	10	14	8	8

LEGEND

- RWA = SIDE ROAD WORK AHEAD
- SRWA = SIDE ROAD WORK AHEAD
- SRW500 = SIDE ROAD WORK 500 FEET
- EW = END WORK
- △ = PORTABLE CHANGEABLE MESSAGE SIGN

PROJECT NAME:	JOHNSON - HYDE PARK
PROJECT NUMBER:	STP SURF(52)
FILE NAME: I4v204\pi4v204.dgn\pi4v204_22.1	PLOT DATE: 04-NOV-2015
PROJECT LEADER: M. FOWLER	DRAWN BY: K. LOCKE
DESIGNED BY: K. LOCKE	CHECKED BY: M. FOWLER
CONSTRUCTION APPROACH SIGNING SHEET	SHEET 22 OF 45

NOT TO SCALE



NOTES:

1. THE CONTRACTOR SHALL SUBMIT A SITE SPECIFIC TRAFFIC CONTROL PLAN TO THE ENGINEER FOR APPROVAL PRIOR TO BEGINNING ANY FIELD WORK IN ACCORDANCE WITH SECTION 105.03. THE COST OF PREPARING THIS PLAN (AND MAKING CHANGES IF NECESSARY) WILL NOT BE PAID SEPARATELY BUT WILL BE INCLUDED IN THE UNIT PRICE BID FOR ITEM 641.10, TRAFFIC CONTROL.

2. THE CONTRACTOR SHALL INCLUDE A CONSTRUCTION APPROACH SIGN PACKAGE FOR EXPECTED LANE CLOSURES AND WORK ZONE SPEED REDUCTIONS IN COMPLIANCE WITH VAOT STANDARD T-17 AND THE LATEST EDITION OF THE MUTCD. PAYMENT FOR PROVIDING THIS PACKAGE WILL BE CONSIDERED INCIDENTAL TO ITEM 641.10, TRAFFIC CONTROL.

3. THE BID PRICE FOR TRAFFIC CONTROL, ITEM 641.10, WILL 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 WILL ALSO BE INCLUDED. THE FOLLOWING ITEMS WILL BE PAID FOR SEPARATELY: 630.10 - UNIFORMED TRAFFIC OFFICERS, AND 630.15 - FLAGGERS, 646.602 - TEMPORARY 4 INCH WHITE LINE, PAINT, 646.612 - TEMPORARY 4 INCH YELLOW LINE, PAINT, 646.682 - TEMPORARY 24 INCH STOP BAR, PAINT, 646.692 - TEMPORARY LETTER OR SYMBOL, PAINT, AND 646.76 - LINE STRIPING TARGETS.

4. 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.

FOR THE DURATION OF THE PROJECT, THE CONTRACTOR SHALL POSITION A PCMS PRIOR TO THE BEGIN AND END PROJECT LIMITS WARNING MOTORISTS OF EXPECTED ROADWAY CONDITIONS AND REDUCED ROADWAY WIDTHS.

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.

5. 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 TOWN HIGHWAYS.

6. REFER TO VAOT STANDARDS AND THE LATEST EDITION OF THE MUTCD FOR TEMPORARY TRAFFIC CONTROL SIGN COLORS.

7. EXISTING SPEED LIMIT SIGNS SHALL BE COVERED WHEN REDUCED SPEED SIGNS ARE POSTED. KEEP RECORDS WHEN POSTING THE WORK ZONE SPEED LIMIT FOR LEGAL PURPOSES; DOCUMENTING DATES, TIMES, AND LOCATIONS OF SIGNS. WHEN WORK ZONE SPEED LIMIT IS NOT IN USE ALL ASSOCIATED SIGNS SHALL BE COVERED, TURNED AND/OR LAID FLAT SO AS THE MOTORING PUBLIC CANNOT READ THESE SIGNS.

8. PORTABLE OR STATIONARY WORK ZONE SPEED LIMIT SIGNS SHOULD BE SPACED EVERY 1.5 TO 2 MILES WHERE APPLICABLE AND AFTER INTERSECTIONS AS A REMINDER TO THE MOTORIST TRAVELING THROUGH THE WORK ZONE WHAT SPEED THEY SHOULD BE TRAVELING.

9. WHEN REDUCED REGULATORY SPEED LIMIT SIGNS ARE USED, THE RESUMPTION OF THE USUAL SPEED LIMIT SHALL BE INDICATED BY AN APPROPRIATE SPEED LIMIT SIGN AT THE END OF THE WORK ZONE.

10. THE CONTRACTOR SHALL MAINTAIN PEDESTRIAN THROUGH MOVEMENTS FROM ONE END OF THE CONSTRUCTION AREA TO THE OTHER, ON AT LEAST ONE SIDE OF THE STREET DURING CONSTRUCTION. ANY SIDEWALK CLOSURES SHALL MEET THE REQUIREMENTS OF THE MUTCD, PART 6.

11. PEDESTRIAN ACCESS SHALL BE PROVIDED TO ALL ADJACENT PROPERTIES, BUILDINGS, RESIDENCES AND COMMERCIAL PROPERTIES AT ALL TIMES. THIS MAY INCLUDE TEMPORARY WALKWAYS SPANNING THE CONSTRUCTION AREA.

12. IF SIDEWALKS ARE CLOSED, A TEMPORARY PEDESTRIAN ACCESS ROUTE (TPAR) SHALL BE PROVIDED ON THE SAME SIDE OF THE ROAD AS THE CLOSED SIDEWALK, IF POSSIBLE. SIGNS AND BARRICADES SHALL BE USED TO PROVIDE ADVANCE NOTICE OF THE CLOSURE AND THE ROUTE OF ANY PEDESTRIAN DETOURS. THE TPAR SHALL HAVE A MINIMUM UNOBSTRUCTED WIDTH OF FOUR FEET. IF THE TPAR IS LESS THAN FIVE FEET IN WIDTH, A FIVE FOOT BY FIVE FOOT PASSING SPACE SHOULD BE PROVIDED AT LEAST EVERY 200 FEET. THE SURFACE OF THE TPAR SHALL BE SMOOTH AND CONTINUOUS FOR THE LENGTH OF THE TPAR. THE TPAR SHALL MAINTAIN THE SAME LEVEL OF ACCESSIBILITY AND DETECTABILITY AS THE FACILITY THAT IS BEING CLOSED. THE TPAR SHALL NOT LEAD PEDESTRIANS INTO CONFLICT WITH VEHICLES, EQUIPMENT, OR CONSTRUCTION OPERATIONS.

13. IF THE TPAR IS ADJACENT TO MOVING TRAFFIC, CONSTRUCTION OPERATIONS/EQUIPMENT, OR DROP-OFFS, THEN CRASH WORTHY CHANNELIZING DEVICES THAT MEET THE REQUIREMENTS OF THE MUTCD SHALL BE USED.

14. THE CONTRACTOR SHALL NOT STORE OR PLACE ANY CONSTRUCTION MATERIALS, EQUIPMENT OR SIGNS IN THE PEDESTRIAN PATH OF TRAVEL.

15. THE CONTRACTOR'S OPERATIONS SHALL NOT OCCUPY SIDEWALKS EXCEPT WHERE PROPER PROTECTION AND A TPAR HAVE BEEN PROVIDED.

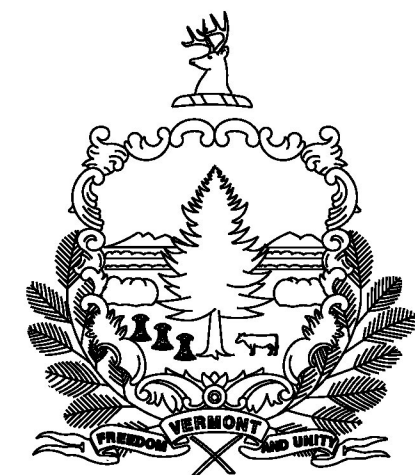
16. THE CONTRACTOR SHALL SUBMIT A TEMPORARY PEDESTRIAN TRAFFIC CONTROL PLAN FOR REVIEW AND WRITTEN APPROVAL TO THE ENGINEER A MINIMUM OF THREE WEEKS BEFORE SUCH PLAN IS IMPLEMENTED. THIS PLAN SHALL DETAIL THE CONSTRUCTION PHASING AND SCHEDULE AND THE SPECIFIC METHODS OF MAINTAINING SAFE PEDESTRIAN ACCESS THROUGHOUT THE CONSTRUCTION AREA. THIS PLAN SHALL PROVIDE THE LOCATION AND DETAILS OF TEMPORARY CONSTRUCTION SIGNING, MARKINGS, BARRICADES, CHANNELIZING DEVICES, TPARS AND METHODS TO MAINTAIN ACCESS TO ADJACENT PROPERTIES, BUSINESSES, RESIDENCES, ETC. PAYMENT FOR DEVELOPING, IMPLEMENTING, AND MAINTAINING THE TEMPORARY PEDESTRIAN TRAFFIC CONTROL PLAN WILL BE INCLUDED IN THE UNIT PRICE BID FOR CONTRACT ITEM 641.10.

PROJECT NAME:	JOHNSON - HYDE PARK
PROJECT NUMBER:	STP SURF(52)

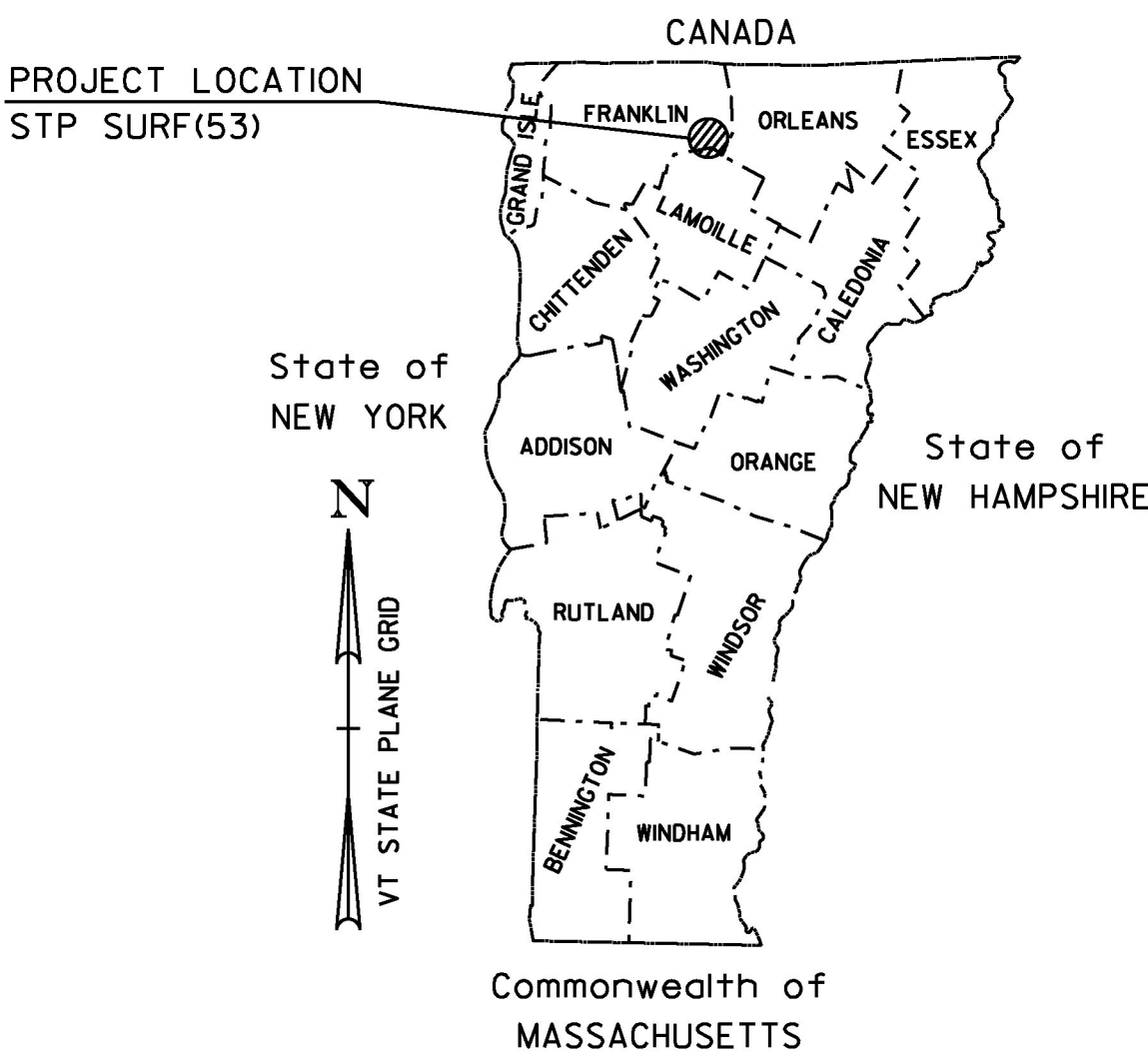
FILE NAME:	I4v204\pi4v204.dgn\pi4v204_23.1			PLOT DATE:	04-NOV-2015
PROJECT LEADER:	M. FOWLER	DRAWN BY:	K. LOCKE		
DESIGNED BY:	K. LOCKE	CHECKED BY:	M. FOWLER		
TRAFFIC CONTROL NOTES SHEET		SHEET	23	OF	45



STATE OF VERMONT  
AGENCY OF TRANSPORTATION



PROPOSED IMPROVEMENT  
TOWNS OF BELVIDERE, MONTGOMERY, ENOSBURG & BERKSHIRE  
COUNTIES OF LAMOILLE & FRANKLIN  
VT ROUTE 118 (MAJOR COLLECTOR)



BEGINNING IN THE TOWN OF BELVIDERE AT MILE MARKER 0.056 AND EXTENDING NORTHERLY ALONG VT ROUTE 118 THROUGH THE TOWNS OF MONTGOMERY AND ENOSBURG FOR A DISTANCE OF 80,118.72 FT (15.174 MILES) TO MILE MARKER 1.565 (VT 118/VT 105 JCT) IN THE TOWN OF BERKSHIRE.

LENGTH OF ROADWAY = 80,118.72 FT = (15.174 MILES)  
LENGTH OF PROJECT = 80,118.72 FT = (15.174 MILES)

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

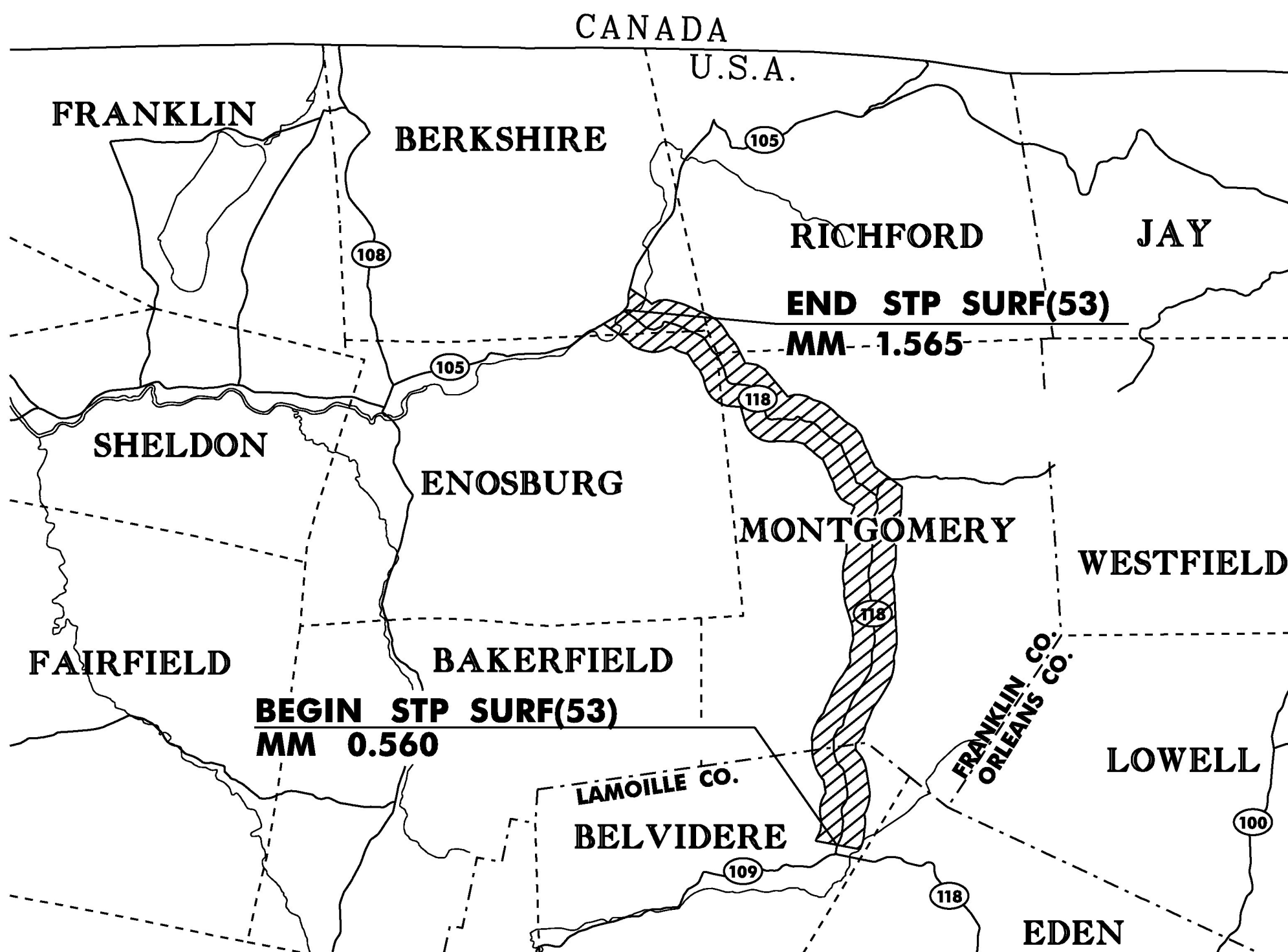


CONSTRUCTION IS TO BE CARRIED ON IN ACCORDANCE WITH THESE PLANS AND THE STANDARD SPECIFICATIONS FOR CONSTRUCTION DATED 2011, AS APPROVED BY THE FEDERAL HIGHWAY ADMINISTRATION ON JULY 20, 2011 FOR USE ON THIS PROJECT, INCLUDING ALL SUBSEQUENT REVISIONS AND SUCH REVISED SPECIFICATIONS AND SPECIAL PROVISIONS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

QUALITY ASSURANCE PROGRAM : LEVEL 3

SURVEYED BY : N/A  
SURVEYED DATE : N/A

DATUM  
VERTICAL N/A  
HORIZONTAL N/A



TRAFFIC DATA

VT 118	2015 AADT	2025 AADT	2015 DHV	2025 DHV	FLEXIBLE ESALS (2015-2025)	FLEXIBLE ESALS (2015-2035)
BEGIN PROJECT TO SOUTH BROOK RD (TH 43)	590	600	100	110	192,000	465,000
SOUTH BROOK RD (TH 43) TO NOTCH RD (VT 58)	1,000	1,000	160	160	256,000	552,000
NOTCH RD (VT 58) TO VT 242	2,000	2,100	300	310	389,000	964,000
VT 242 TO FULLER BRIDGE RD (TH 1)	2,300	2,400	340	350	447,000	1,012,000
FULLER BRIDGE RD (TH 1) TO PRIVE HILL RD (TH 6)	1,600	1,600	240	240	281,000	614,000
PRIVE HILL RD (TH 6) TO END PROJECT	2,500	2,600	330	340	661,000	1,487,000

NOT TO SCALE

PROJECT MANAGER : MICHAEL J. FOWLER, P.E.

PROJECT NAME : BELVIDERE - BERKSHIRE  
PROJECT NUMBER : STP SURF (53)

SHEET 24 OF 45 SHEETS



# QUANTITY SHEET 1

**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
			29,500		29,500	LF	SHOULDER BERM REMOVAL	203.40	EST
			I		I	CY	TRENCH EXCAVATION OF EARTH, EXPLORATORY (N.A.B.I.)	204.22	-
			14,810		14,810	LF	MILLED RUMBLE STRIPS (CENTERLINE)	213.10	EST
							BEGIN OPTION AA		
			1,500		1,500	TON	AGGREGATE SHOULDERS	402.12	152
			1,500		1,500	TON	AGGREGATE SHOULDERS, RAP	402.13	152
							END OPTION AA		
			I		I	LU	PRICE ADJUSTMENT, ASPHALT CEMENT (N.A.B.I.)	406.50	-
			15,500		15,500	LB	BITUMINOUS CRACK SEALING, "BLOW AND GO" METHOD (AASHTO M 324 (ASTM D 6690) TYPE II)	417.20	326
		520			520	LF	BRIDGE EXPANSION JOINT, ASPHALTIC PLUG	516.10	6
		250			250	LF	BRIDGE EXPANSION JOINT, ASPHALTIC PLUG (ø FINGER PLATE/VERMONT JOINT)	516.10	6
		50			50	CF	RAPID SETTING CONCRETE REPAIR MATERIAL WITH COARSE AGGREGATE	580.20	EST
			20		20	EA	CHANGING ELEVATION OF DI, CB, OR MH	604.40	-
			100		100	HR	POWER BROOM RENTAL, TYPE I	608.30	EST
			100		100	HR	POWER BROOM RENTAL, TYPE II	608.31	EST
			100		100	HR	TRUCK RENTAL	608.37	EST
			3		3	EA	ADJUST ELEVATION OF VALVE BOX	629.20	-
			450		450	HR	UNIFORMED TRAFFIC OFFICERS	630.10	EST
			2,250		2,250	HR	FLAGGERS	630.15	EST
				0.5	0.5	LS	FIELD OFFICE, ENGINEERS	631.10	-
				0.5	0.5	LS	TESTING EQUIPMENT, BITUMINOUS	631.17	-
				1,500	1,500	DL	FIELD OFFICE TELEPHONE (N.A.B.I.)	631.26	-
			0.5		0.5	LS	MOBILIZATION/DEMOBILIZATION	635.11	-
			I		I	LS	TRAFFIC CONTROL (STP SURF(53))	641.10	-
			5		5	EA	PORTABLE CHANGEABLE MESSAGE SIGN	641.15	EST
							BEGIN OPTION BB		
			360		360	LF	DURABLE 24 INCH STOP BAR, THERMOPLASTIC	646.482	EST
			360		360	LF	SPECIAL PROVISION (DURABLE 24 INCH STOP BAR, POLYUREA) (28 MIL)	900.640	EST
							END OPTION BB		
							BEGIN OPTION CC		
			89		89	EA	DURABLE LETTER OR SYMBOL, THERMOPLASTIC	646.492	-
			89		89	EA	SPECIAL PROVISION (DURABLE LETTER OR SYMBOL, POLYUREA) (28 MIL)	900.620	-
							END OPTION CC		
			155,700		155,700	LF	TEMPORARY 4 INCH WHITE LINE, PAINT	646.602	EST
			145,400		145,400	LF	TEMPORARY 4 INCH YELLOW LINE, PAINT	646.612	EST

[illegible][illegible]



# QUANTITY SHEET 2

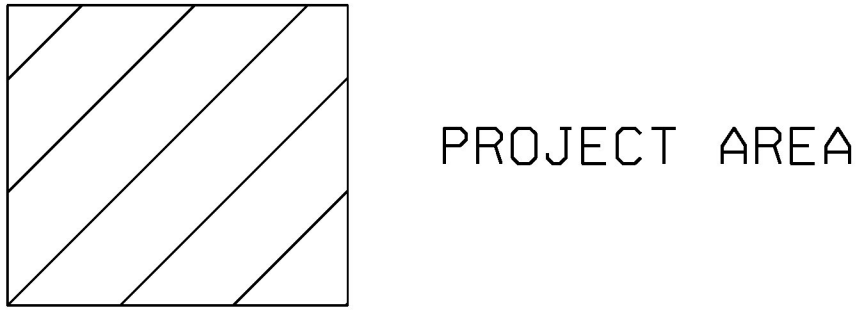
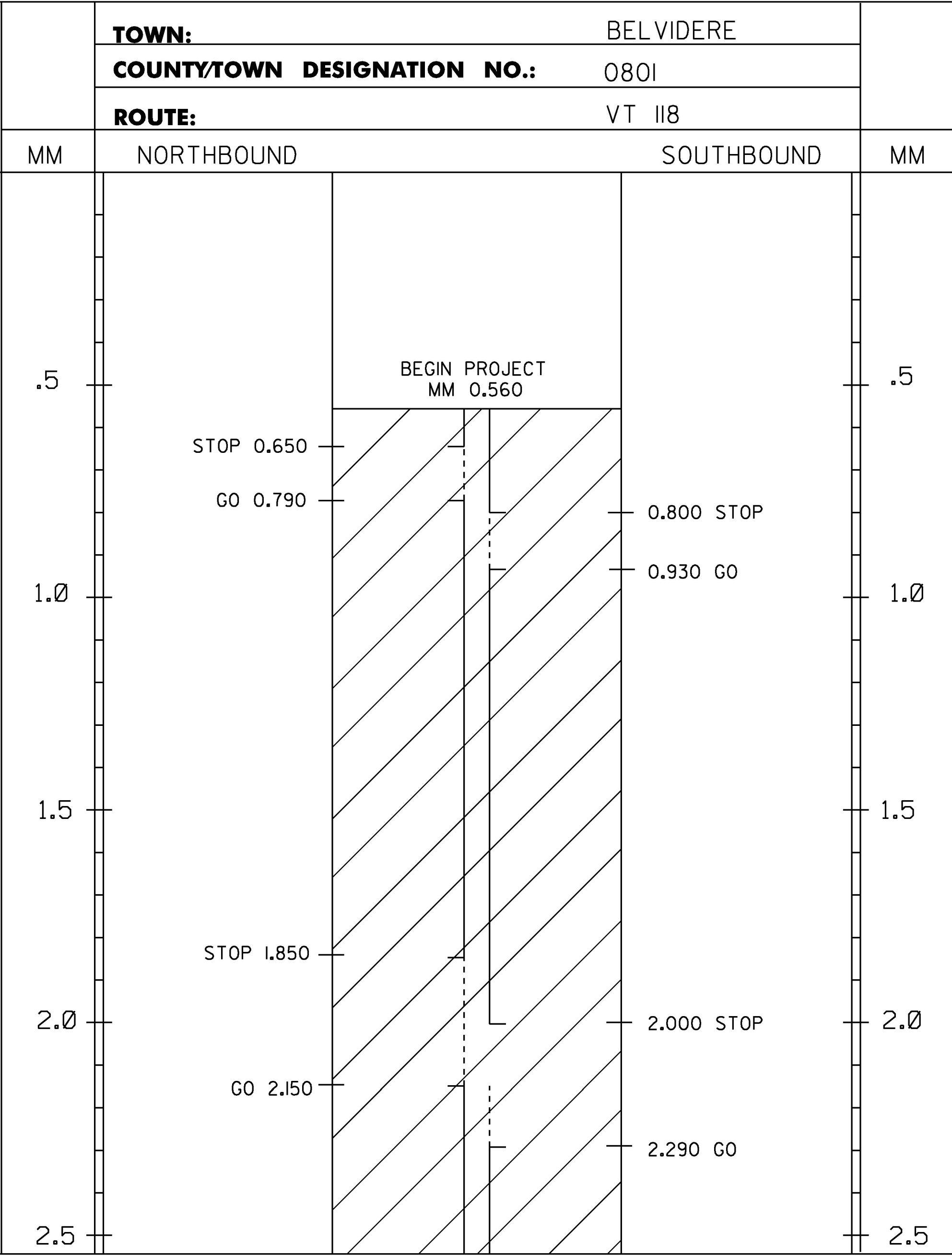
**STATE OF VERMONT**  
**AGENCY OF TRANSPORTATION**

[illegible][illegible][illegible]

PROJECT NAME: BELVIDERE - BERKSHIRE  
PROJECT NUMBER: STP SURF(53)

FILE NAME: I4v204\pl4v204.dgn\pl4v204_26.i	PLOT DATE: 05-NOV-2015
PROJECT LEADER: M. FOWLER	DRAWN BY: K. LOCKE
DESIGNED BY: K. LOCKE	CHECKED BY: M. FOWLER
QUANTITY SHEET 2	SHEET 26 OF 45



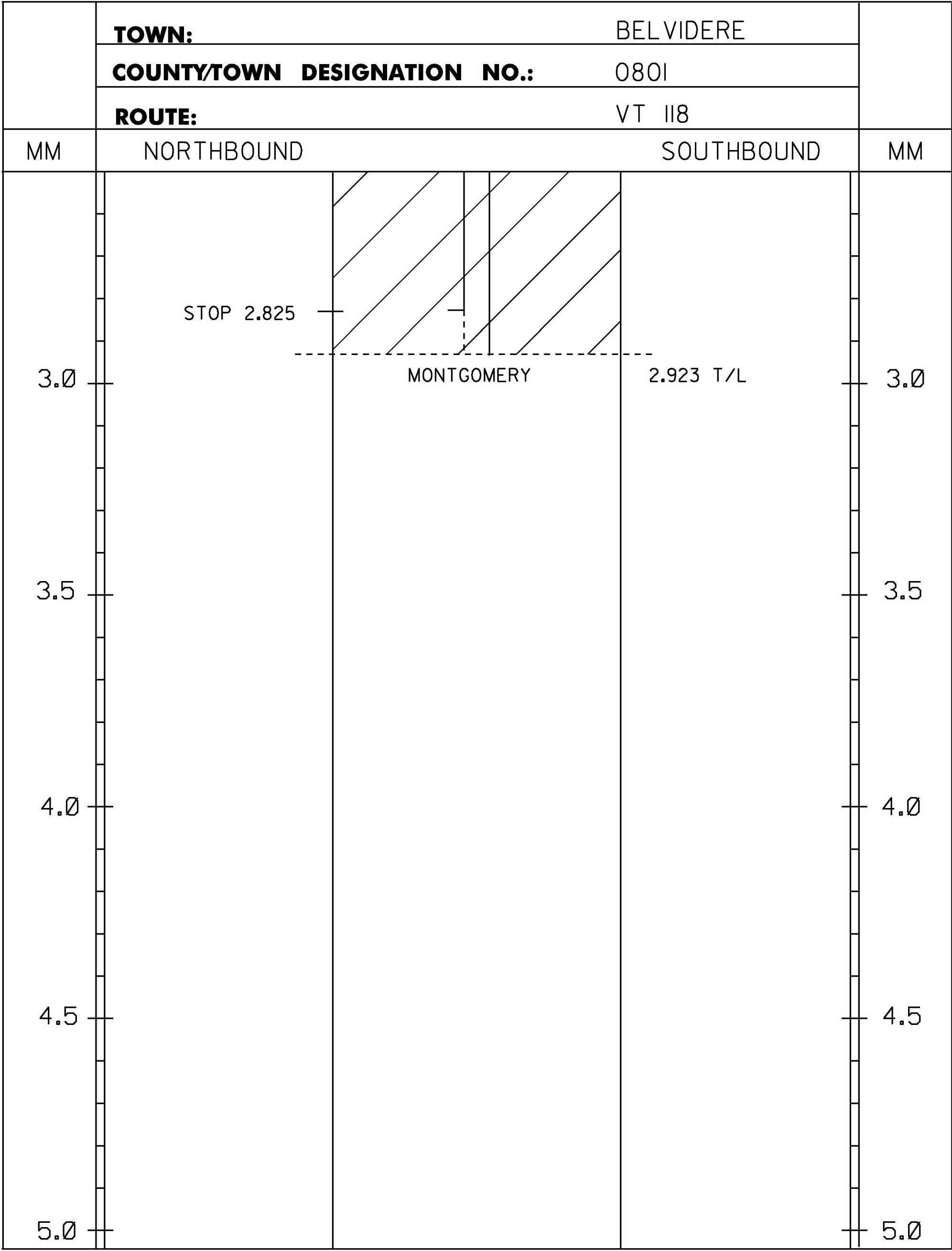


LEGEND

TWBH-THROUGHWAY BEGINS HERE  
TWEH-THROUGHWAY ENDS HERE  
SHB-STATE HIGHWAY BEGINS  
SHE-STATE HIGHWAY ENDS  
SL-SPEED LIMIT  
SA - STATE AID TOWN HIGHWAY  
T/L-TOWN LINE  
C/3 - CLASS 3 TOWN HIGHWAY  
C/4 - CLASS 4 TOWN HIGHWAY

TEMPORARY 4 INCH WHITE LINE, PAINT  
SPECIAL PROVISION (DURABLE 4 INCH WHITE LINE, POLYUREA)(28 MIL)  
MM 0.560 - MM 2.923 LT & RT (EDGE LINES)  
(WITH BREAKS OR RADIAT TOWN HIGHWAYS)

TEMPORARY 4 INCH YELLOW LINE, PAINT  
SPECIAL PROVISION (DURABLE 4 INCH YELLOW LINE, POLYUREA)(28 MIL)  
MM 0.560 - MM 0.650 SOLID LT & RT  
MM 0.650 - MM 0.790 SOLID LT, DASHED RT  
MM 0.790 - MM 0.800 SOLID LT & RT  
MM 0.800 - MM 0.930 DASHED LT, SOLID RT  
MM 0.930 - MM 1.850 SOLID LT & RT  
MM 1.850 - MM 2.000 SOLID LT, DASHED RT  
MM 2.000 - MM 2.150 DASHED CL  
MM 2.150 - MM 2.290 DASHED LT, SOLID RT  
MM 2.290 - MM 2.825 SOLID LT & RT  
MM 2.825 - MM 2.923 SOLID LT, DASHED RT  
(WITH CL BREAKS AT TOWN HIGHWAYS)

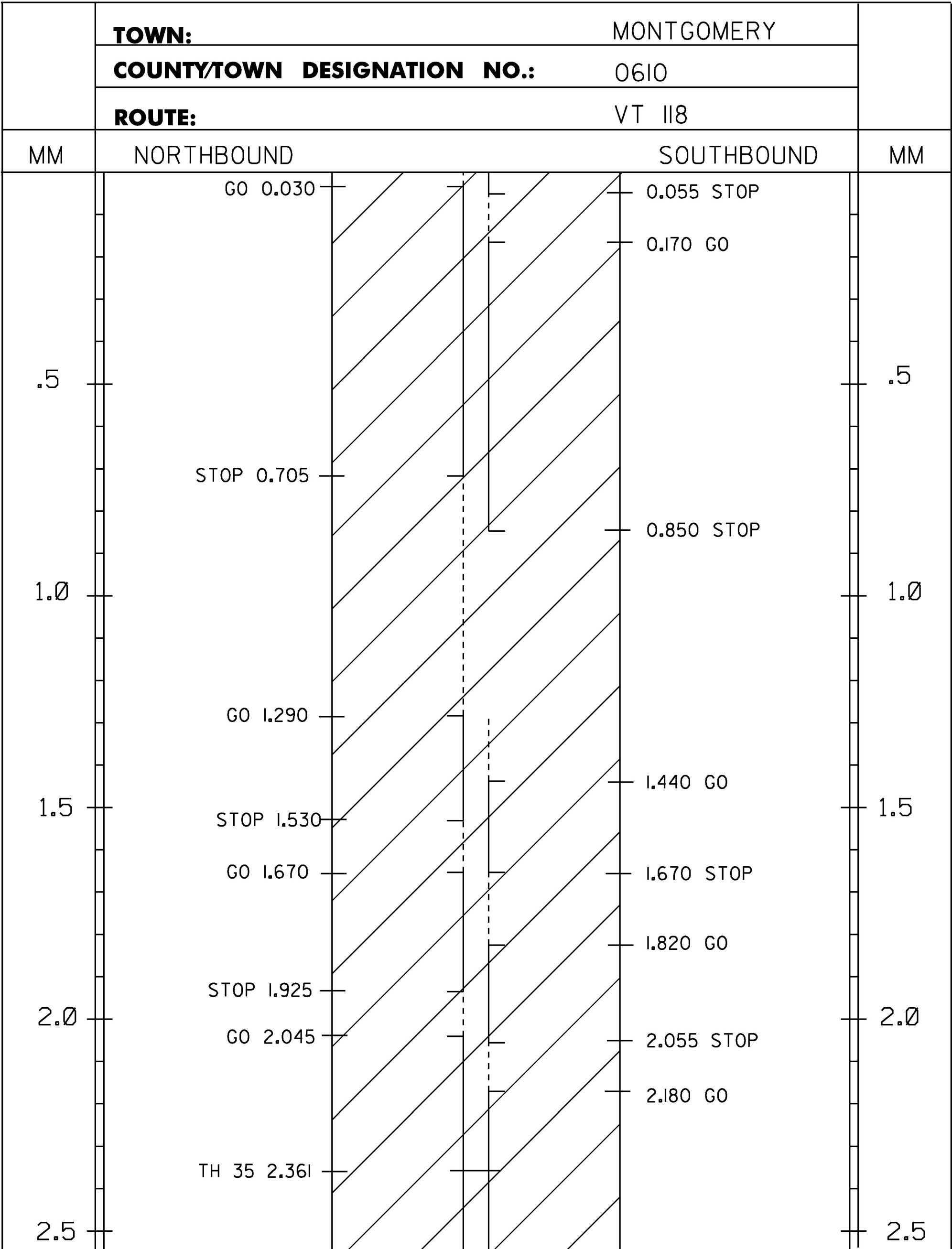


NOTES:  
1. THIS SHEET TO BE USED FOR THE LAYOUT OF ALL CENTERLINE PAVEMENT MARKINGS.  
THE ENGINEER MAY CONTACT KEITH SWEET, PAVEMENT MARKING SUPERVISOR AT  
(802) 828-5573 FOR ASSISTANCE LAYING OUT THE CENTERLINE DURING CONSTRUCTION.

NOT TO SCALE

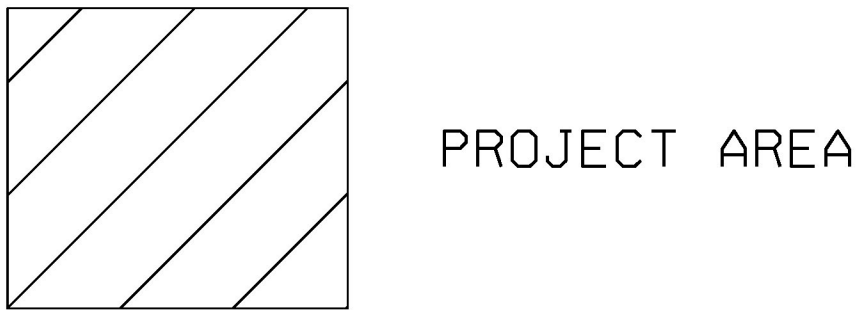
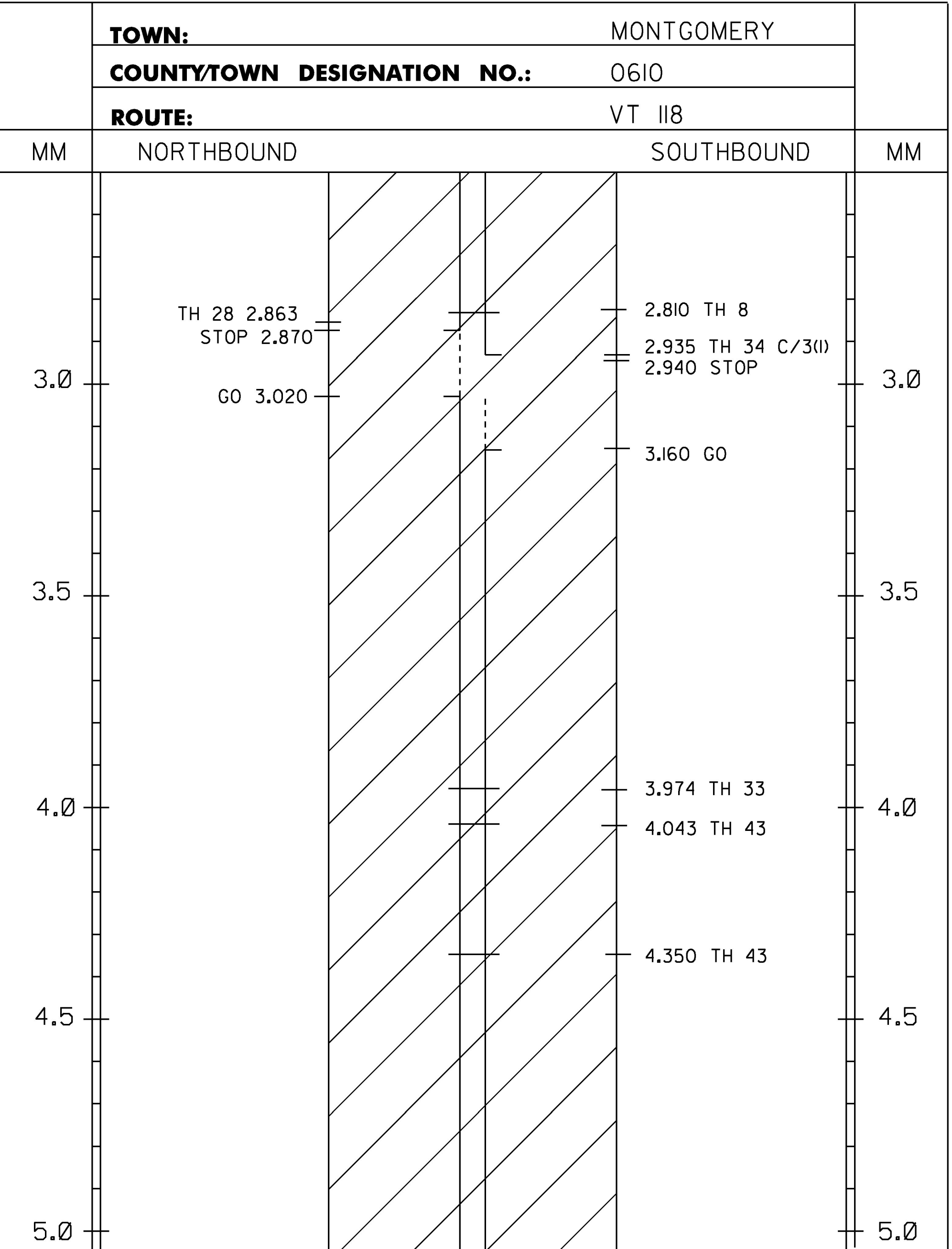
PROJECT NAME: BELVIDERE - BERKSHIRE	
PROJECT NUMBER: STP SURF(53)	
FILE NAME: I4v204\pi4v204.dgn\pi4v204_27.1	PLOT DATE: 04-NOV-2015
PROJECT LEADER: M. FOWLER	DRAWN BY: K. LOCKE
DESIGNED BY: K. LOCKE	CHECKED BY: M. FOWLER
CENTERLINE MARKING LAYOUT SHEET 1	SHEET 27 OF 45





TEMPORARY 4 INCH WHITE LINE, PAINT  
SPECIAL PROVISION (DURABLE 4 INCH WHITE LINE, POLYUREA)(28 MIL)  
MM 0.000 - MM 5.000 LT & RT (EDGE LINES)  
(WITH BREAKS OR RADII AT TOWN HIGHWAYS)

TEMPORARY 4 INCH YELLOW LINE, PAINT  
SPECIAL PROVISION (DURABLE 4 INCH YELLOW LINE, POLYUREA)(28 MIL)  
MM 0.000 - MM 0.030 SOLID LT, DASHED RT  
MM 0.030 - MM 0.055 SOLID LT & RT  
MM 0.055 - MM 0.170 DASHED LT, SOLID RT  
MM 0.170 - MM 0.705 SOLID LT & RT  
MM 0.705 - MM 0.850 SOLID LT, DASHED RT  
MM 0.850 - MM 1.290 DASHED CL  
MM 1.290 - MM 1.440 DASHED LT, SOLID RT  
MM 1.440 - MM 1.530 SOLID LT & RT  
MM 1.530 - MM 1.670 SOLID LT, DASHED RT  
MM 1.670 - MM 1.820 DASHED LT, SOLID RT  
MM 1.820 - MM 1.925 SOLID LT & RT  
MM 1.925 - MM 2.045 SOLID LT, DASHED RT  
MM 2.045 - MM 2.055 SOLID LT & RT  
MM 2.055 - MM 2.180 DASHED LT, SOLID RT  
MM 2.180 - MM 2.870 SOLID LT & RT  
MM 2.870 - MM 2.940 SOLID LT, DASHED RT  
MM 2.940 - MM 3.020 DASHED CL  
MM 3.020 - MM 3.160 DASHED LT, SOLID RT  
MM 3.160 - MM 5.000 SOLID LT & RT  
(WITH CL BREAKS AT TOWN HIGHWAYS)



LEGEND

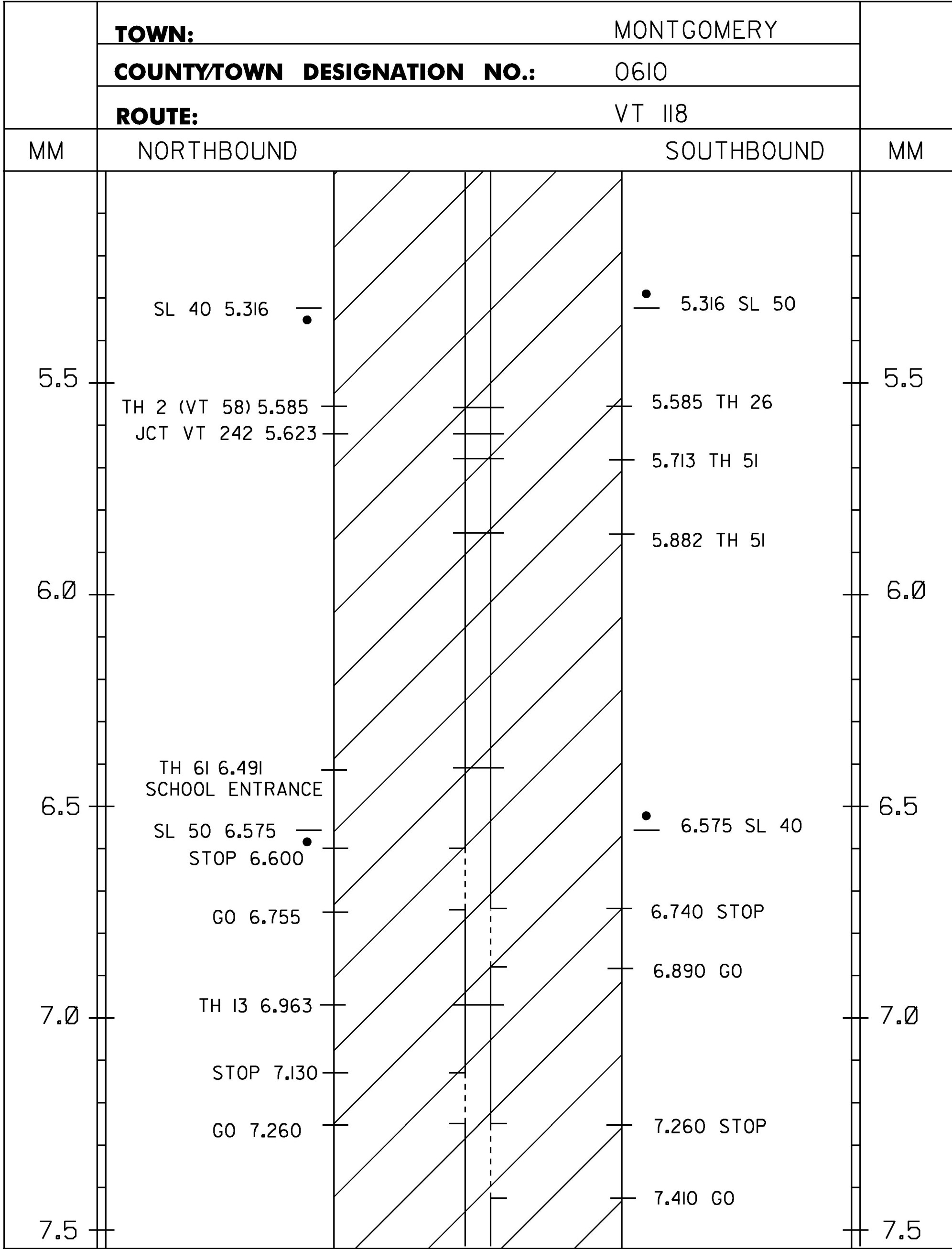
TWBH-THROUGHWAY BEGINS HERE  
TWEH-THROUGHWAY ENDS HERE  
SHB-STATE HIGHWAY BEGINS  
SHE-STATE HIGHWAY ENDS  
SL-SPEED LIMIT  
SA - STATE AID TOWN HIGHWAY  
T/L-TOWN LINE  
C/3 - CLASS 3 TOWN HIGHWAY  
C/4 - CLASS 4 TOWN HIGHWAY

NOTES:  
1. THIS SHEET TO BE USED FOR THE LAYOUT OF ALL CENTERLINE PAVEMENT MARKINGS.  
THE ENGINEER MAY CONTACT KEITH SWEET, PAVEMENT MARKING SUPERVISOR AT  
(802) 828-5573 FOR ASSISTANCE LAYING OUT THE CENTERLINE DURING CONSTRUCTION.

NOT TO SCALE

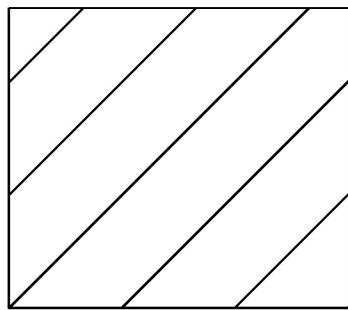
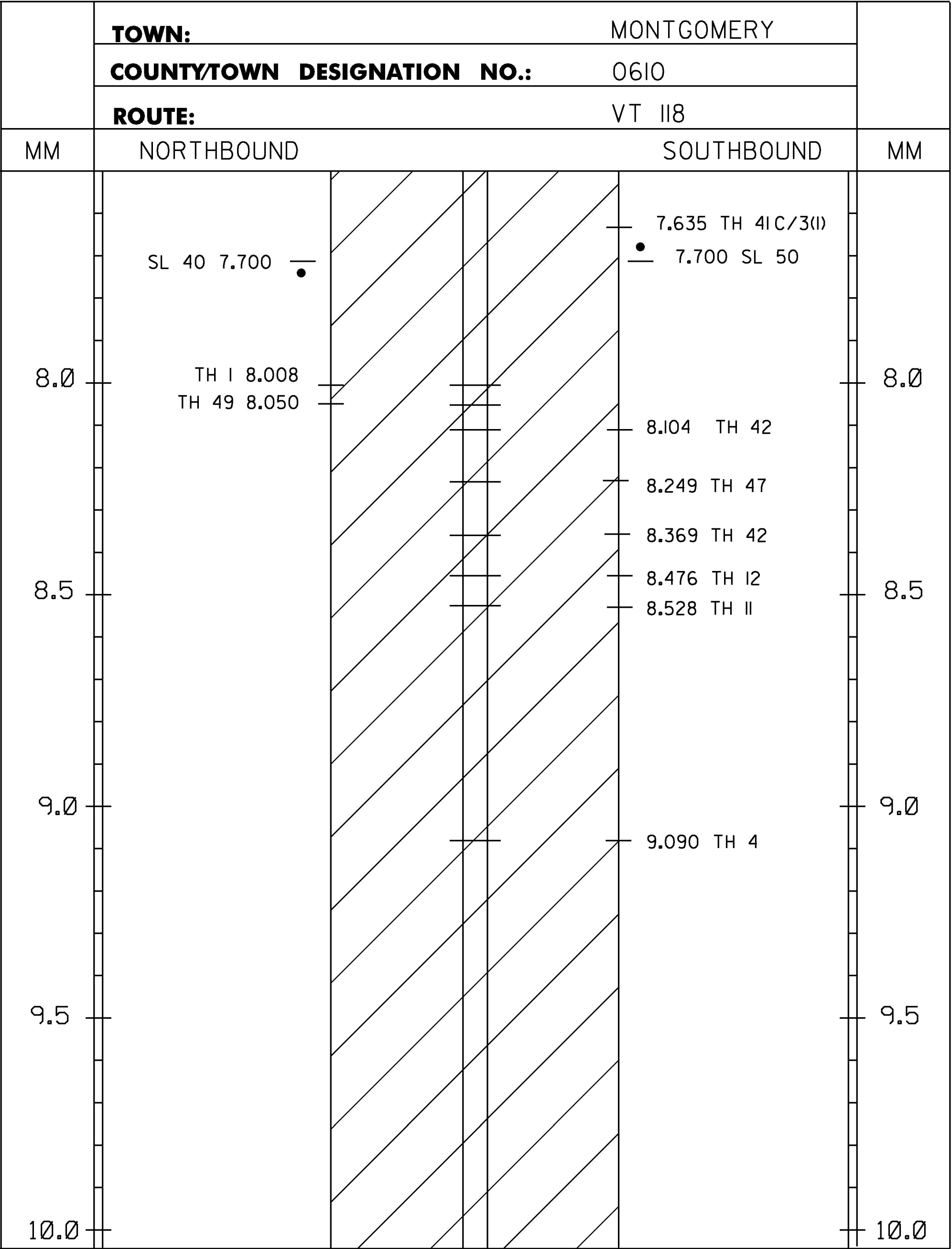
PROJECT NAME: BELVIDERE - BERKSHIRE	
PROJECT NUMBER: STP SURF(53)	
FILE NAME: I4v204\pi4v204.dgn\pi4v204_28.1	PLOT DATE: 04-NOV-2015
PROJECT LEADER: M. FOWLER	DRAWN BY: K. LOCKE
DESIGNED BY: K. LOCKE	CHECKED BY: M. FOWLER
CENTERLINE MARKING LAYOUT SHEET 2	SHEET 28 OF 45





TEMPORARY 4 INCH WHITE LINE, PAINT  
SPECIAL PROVISION (DURABLE 4 INCH WHITE LINE, POLYUREA)(28 MIL)  
MM 5.000 - MM 10.000 LT & RT (EDGE LINES)  
(WITH BREAKS OR RADII AT TOWN HIGHWAYS)

TEMPORARY 4 INCH YELLOW LINE, PAINT  
SPECIAL PROVISION (DURABLE 4 INCH YELLOW LINE, POLYUREA)(28 MIL)  
MM 5.000 - MM 6.600 SOLID LT & RT  
MM 6.600 - MM 6.740 SOLID LT, DASHED RT  
MM 6.740 - MM 6.755 DASHED CL  
MM 6.755 - MM 6.890 DASHED LT, SOLID RT  
MM 6.890 - MM 7.130 SOLID LT & RT  
MM 7.130 - MM 7.260 SOLID LT, DASHED RT  
MM 7.260 - MM 7.410 DASHED LT, SOLID RT  
MM 7.410 - MM 10.000 SOLID LT & RT  
(WITH CL BREAKS AT TOWN HIGHWAYS)



PROJECT AREA

LEGEND

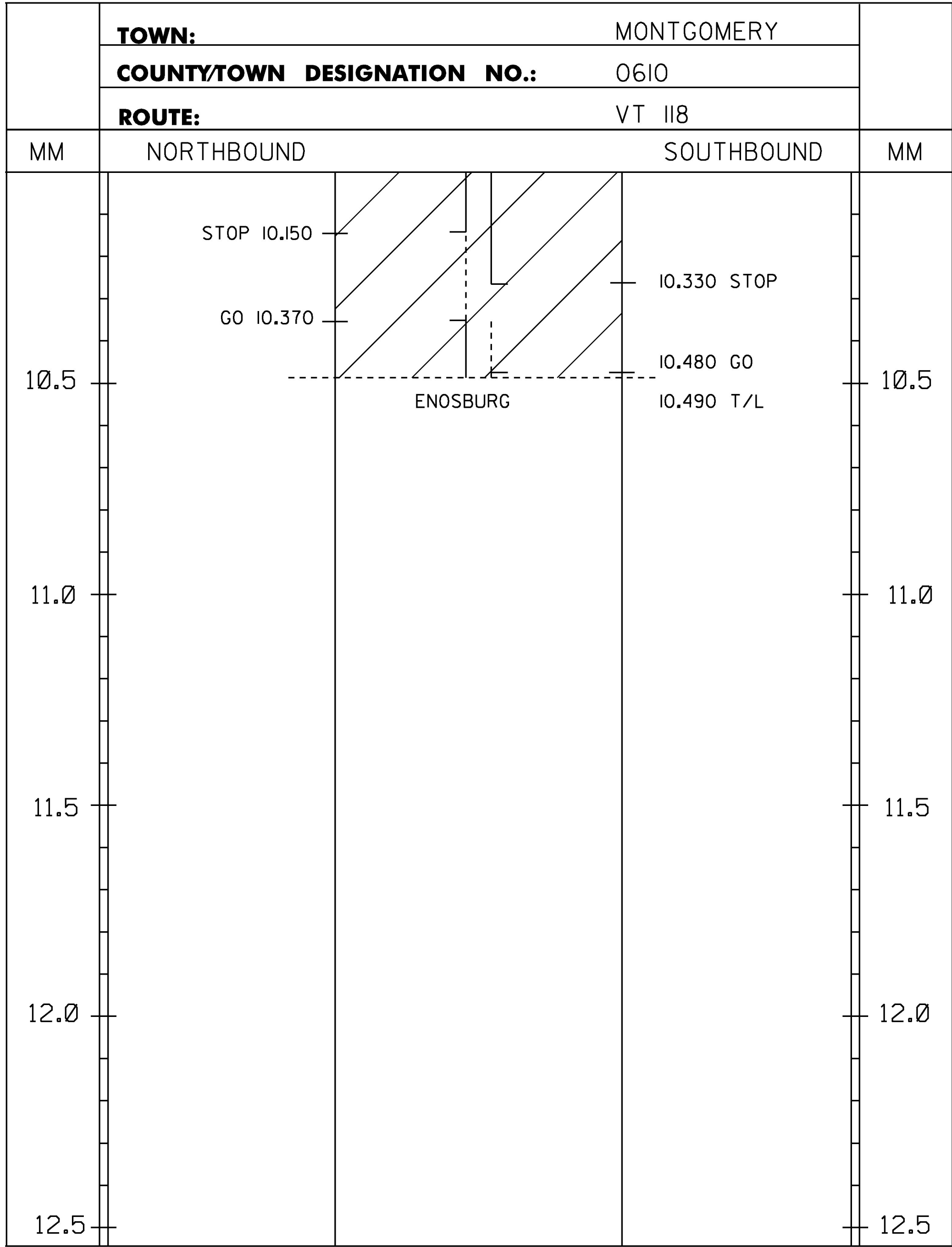
TWBH-THROUGHWAY BEGINS HERE  
TWEH-THROUGHWAY ENDS HERE  
SHB-STATE HIGHWAY BEGINS  
SHE-STATE HIGHWAY ENDS  
SL-SPEED LIMIT  
SA - STATE AID TOWN HIGHWAY  
T/L-TOWN LINE  
C/3 - CLASS 3 TOWN HIGHWAY  
C/4 - CLASS 4 TOWN HIGHWAY

NOTES:  
1. THIS SHEET TO BE USED FOR THE LAYOUT OF ALL CENTERLINE PAVEMENT MARKINGS.  
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(802) 828-5573 FOR ASSISTANCE LAYING OUT THE CENTERLINE DURING CONSTRUCTION.

NOT TO SCALE

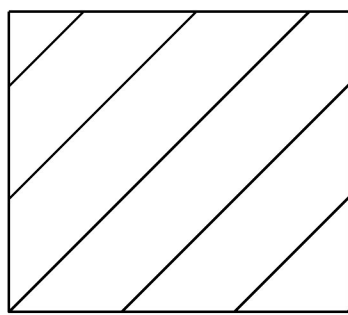
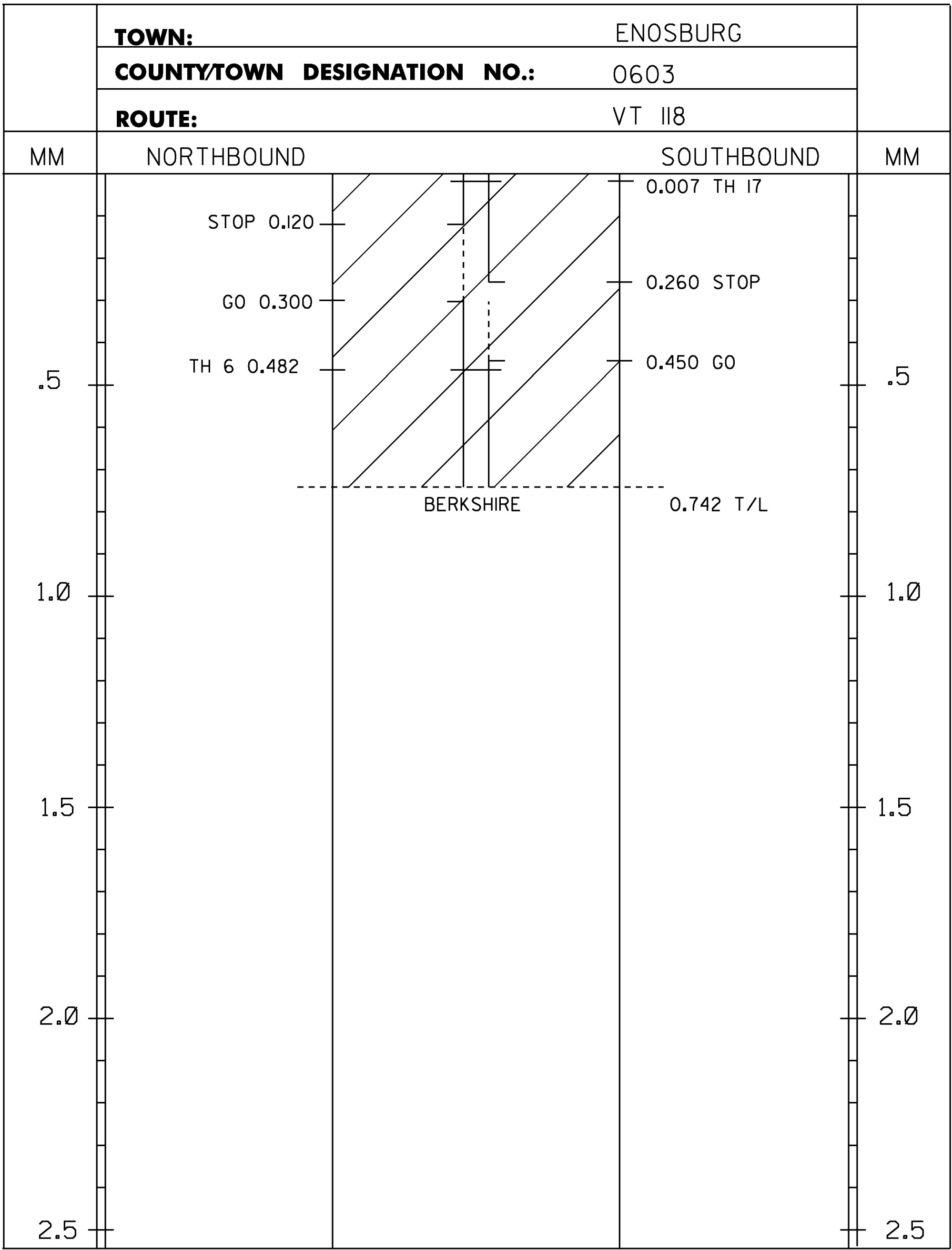
PROJECT NAME: BELVIDERE - BERKSHIRE	
PROJECT NUMBER: STP SURF(53)	
FILE NAME: I4v204\pi4v204.dgn\pi4v204_29.1	PLOT DATE: 04-NOV-2015
PROJECT LEADER: M. FOWLER	DRAWN BY: K. LOCKE
DESIGNED BY: K. LOCKE	CHECKED BY: M. FOWLER
CENTERLINE MARKING LAYOUT SHEET 3	SHEET 29 OF 45





TEMPORARY 4 INCH WHITE LINE, PAINT  
SPECIAL PROVISION (DURABLE 4 INCH WHITE LINE, POLYUREA)(28 MIL)  
MM 10.000 - MM 10.490 LT & RT (EDGE LINES)  
MM 0.000 - MM 0.742 LT & RT (EDGE LINES)  
(WITH BREAKS OR RADII AT TOWN HIGHWAYS)

TEMPORARY 4 INCH YELLOW LINE, PAINT  
SPECIAL PROVISION (DURABLE 4 INCH YELLOW LINE, POLYUREA)(28 MIL)  
MM 10.000 - MM 10.150 SOLID LT & RT  
MM 10.150 - MM 10.330 SOLID LT, DASHED RT  
MM 10.330 - MM 10.370 DASHED CL  
MM 10.370 - MM 10.480 DASHED LT, SOLID RT  
MM 10.480 - MM 10.490 SOLID LT & RT  
MM 0.000 - MM 0.120 SOLID LT & RT  
MM 0.120 - MM 0.260 SOLID LT, DASHED RT  
MM 0.260 - MM 0.300 DASHED CL  
MM 0.300 - MM 0.450 DASHED LT, SOLID RT  
MM 0.450 - MM 0.742 SOLID LT & RT  
(WITH CL BREAKS AT TOWN HIGHWAYS)



PROJECT AREA

LEGEND

TWBH-THROUGHWAY BEGINS HERE  
TWEH-THROUGHWAY ENDS HERE  
SHB-STATE HIGHWAY BEGINS  
SHE-STATE HIGHWAY ENDS  
SL-SPEED LIMIT  
SA - STATE AID TOWN HIGHWAY  
T/L-TOWN LINE  
C/3 - CLASS 3 TOWN HIGHWAY  
C/4 - CLASS 4 TOWN HIGHWAY

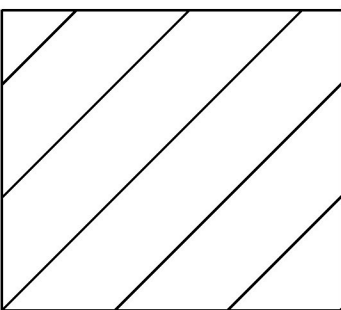
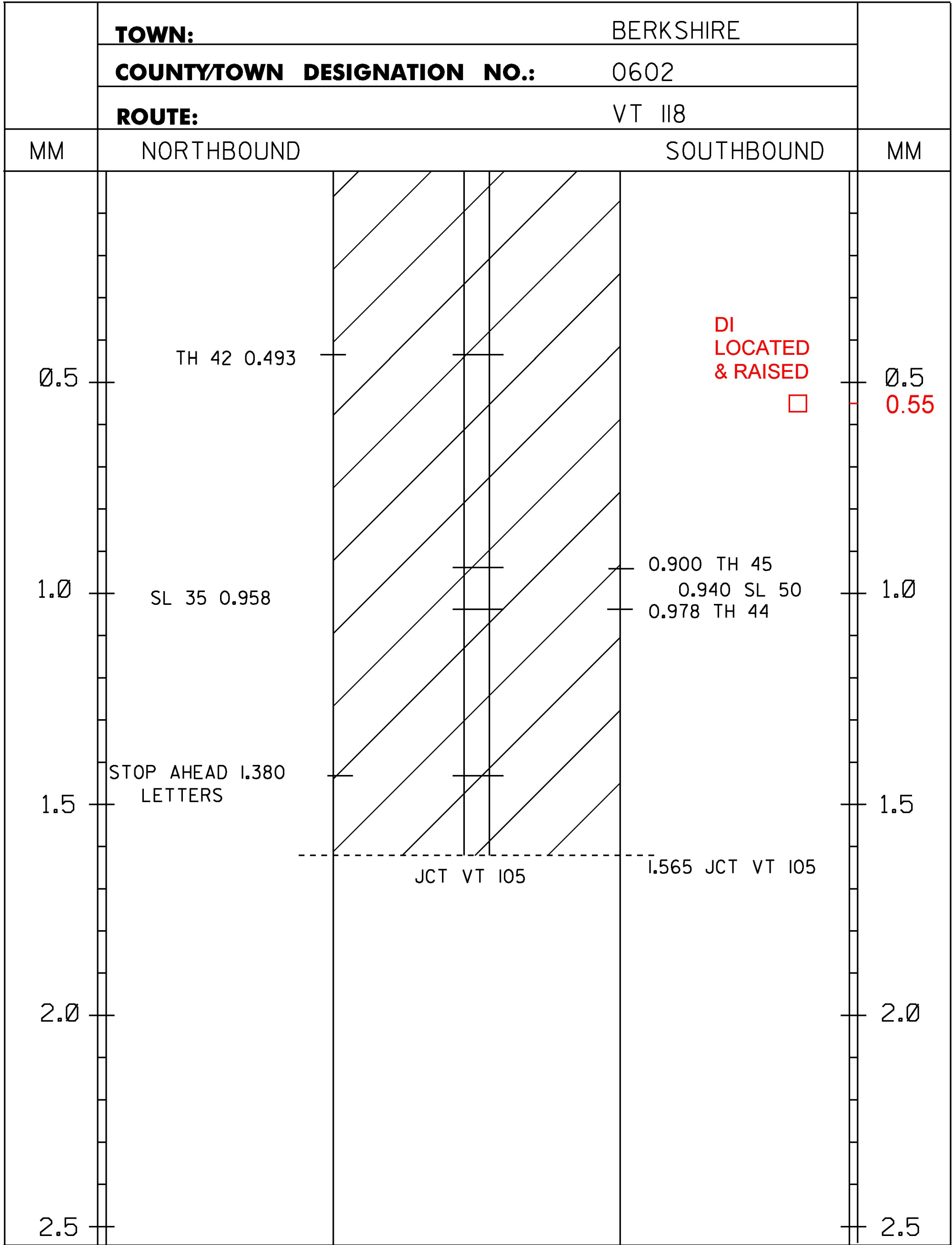
NOTES:  
1. THIS SHEET TO BE USED FOR THE LAYOUT OF ALL CENTERLINE PAVEMENT MARKINGS.  
THE ENGINEER MAY CONTACT KEITH SWEET, PAVEMENT MARKING SUPERVISOR AT  
(802) 828-5573 FOR ASSISTANCE LAYING OUT THE CENTERLINE DURING CONSTRUCTION.

NOT TO SCALE

PROJECT NAME: BELVIDERE - BERKSHIRE  
PROJECT NUMBER: STP SURF(53)  
FILE NAME: I4v204\pi4v204.dgn\pi4v204_30.1 PLOT DATE: 04-NOV-2015  
PROJECT LEADER: M. FOWLER DRAWN BY: K. LOCKE  
DESIGNED BY: K. LOCKE CHECKED BY: M. FOWLER  
CENTERLINE MARKING LAYOUT SHEET 4 SHEET 30 OF 45



TOWN/STATE HIGHWAY INVENTORY FOR PAVING & MARKING



PROJECT AREA

TEMPORARY 4 INCH WHITE LINE, PAINT  
SPECIAL PROVISION (DURABLE 4 INCH WHITE LINE, POLYUREA)(28 MIL)  
MM 0.000 - MM 1.565 LT & RT (EDGE LINES)  
(WITH BREAKS OR RADIAT TOWN HIGHWAYS)

TEMPORARY 4 INCH YELLOW LINE, PAINT  
SPECIAL PROVISION (DURABLE 4 INCH YELLOW LINE, POLYUREA)(28 MIL)

MM 0.000 - MM 1.565 SOLID LT & RT  
(WITH CL BREAKS AT TOWN HIGHWAYS)

TEMPORARY LETTER OR SYMBOL, PAINT  
DURABLE LETTER OR SYMBOL, OPTION ITEM

MM 1.380 RT - "STOP AHEAD" (9 EACH)  
MM 1.556 RT - "STOP" (4 EACH)

TEMPORARY 24 INCH STOP BAR, PAINT  
DURABLE 24 INCH STOP BAR, OPTION ITEM

MM 1.556 RT

TOWN/STATE HIGHWAY NAME	LOCATION MM	MAINLINE CENTERLINE BREAK	MAINLINE EDGE LINE BREAK	TH CENTERLINE	TH EDGE LINE	TH STOP BAR	TH STOP LETTERS
MONTGOMERY							
TH 35 NUTTING RD	2.361 RT	YES	YES	YES	YES	YES	YES
TH 8 SOUTH BRANCH RD	2.810 LT	YES	YES	NO	NO	NO	NO
TH 28 REAGAN RD	2.863 RT	YES	YES	YES	YES	YES	YES
TH 34 SUNDELL RD	2.935 LT	NO	NO	NO	NO	NO	NO
TH 33 GIBOU RD	3.974 LT	YES	YES	YES	YES	YES	YES
TH 43 SOUTH BROOK RD	4.043 LT	YES	YES	NO	NO	NO	NO
TH 43 SOUTH BROOK RD	4.350 LT	YES	YES	NO	NO	NO	NO
TH 2 NOTCH RD (VT 58)	5.585 RT	YES	YES	YES	YES	YES	YES
TH 26 GRANNY GRUNTS RD	5.585 LT	YES	YES	NO	NO	NO	NO
VT 242	5.623 RT	YES	YES	-	-	-	-
TH 51 TROUT RIVER RD	5.713 LT	YES	YES	NO	NO	NO	NO
TH 51 RIVER STREET	5.882 LT	YES	YES	NO	NO	NO	NO
TH 61 SCHOOL DRIVE	6.491 RT	YES	YES	YES	YES	YES	YES
TH 13 DREAMER'S RD	5.231 RT	YES	YES	NO	YES	YES	YES
TH 41 VINCENTS BRIDGE RD	6.173 RT	NO	NO	NO	NO	NO	NO
TH 1 FULLER BRIDGE RD	8.008 RT	YES	YES	YES	YES	YES	YES
TH 39	8.065 RT	YES	YES	YES	YES	YES	YES
TH 49 DEUSO RD	8.050 RT	NO	NO	NO	NO	NO	NO
TH 42 COMSTOCK BR RD	8.104 LT	YES	YES	YES	YES	YES	YES
TH 47 BANK RD	8.249 LT	YES	YES	NO	NO	NO	NO
TH 42 COMSTOCK BR RD	8.369 LT	YES	YES	YES	YES	YES	YES
TH 12 HILL WEST RD	8.476 LT	YES	YES	YES	YES	YES	YES
TH 11 WEST HILL RD	8.528 LT	YES	YES	YES	YES	YES	YES
TH 4 LONGLEY BRIDGE RD	9.090 LT	YES	YES	YES	NO	YES	YES
ENOSBURG							
TH 17 HOPKINS BRIDGE RD	0.007 RT	YES	YES	YES	YES	YES	YES
TH 6 PRIVE HILL RD	0.482 LT	YES	YES	YES	YES	YES	YES
BERKSHIRE							
TH 42 DEMARIS RD	0.493 RT	YES	YES	YES	YES	YES	YES
TH 45 WOODARD NEIGHB	0.900 LT	YES	YES	YES	NO	YES	YES
TH 44 PERLEY RD	0.978 LT	YES	YES	YES	YES	YES	YES

NOTES:  
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(802) 828-5573 FOR ASSISTANCE LAYING OUT THE CENTERLINE DURING CONSTRUCTION.

CHANGING ELEVATION OF DI, CB OR MH  
MM 0.010 LT (DI)

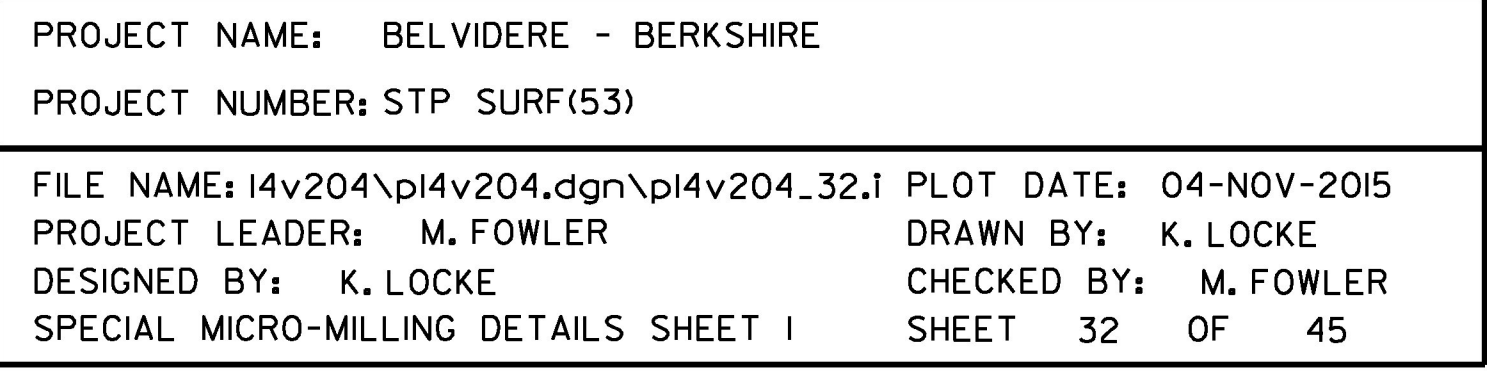
NOT TO SCALE

PROJECT NAME: BELVIDERE - BERKSHIRE

PROJECT NUMBER: STP SURF(53)

FILE NAME: I4v204\pi4v204.dgn\pi4v204_31.f PLOT DATE: 04-NOV-2015  
PROJECT LEADER: M. FOWLER DRAWN BY: K. LOCKE  
DESIGNED BY: K. LOCKE CHECKED BY: M. FOWLER  
CENTERLINE MARKING LAYOUT SHEET 5 SHEET 31 OF 45

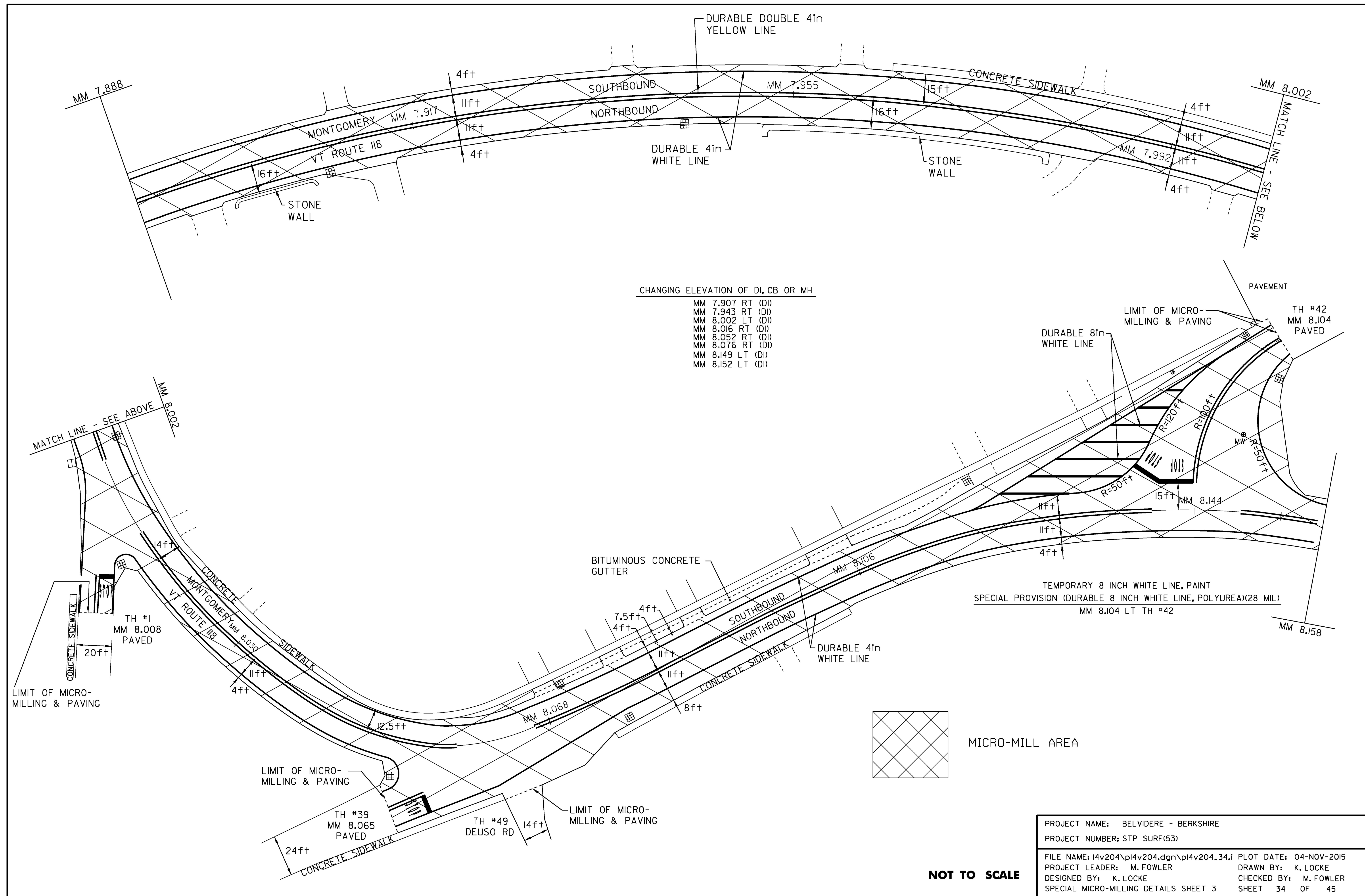




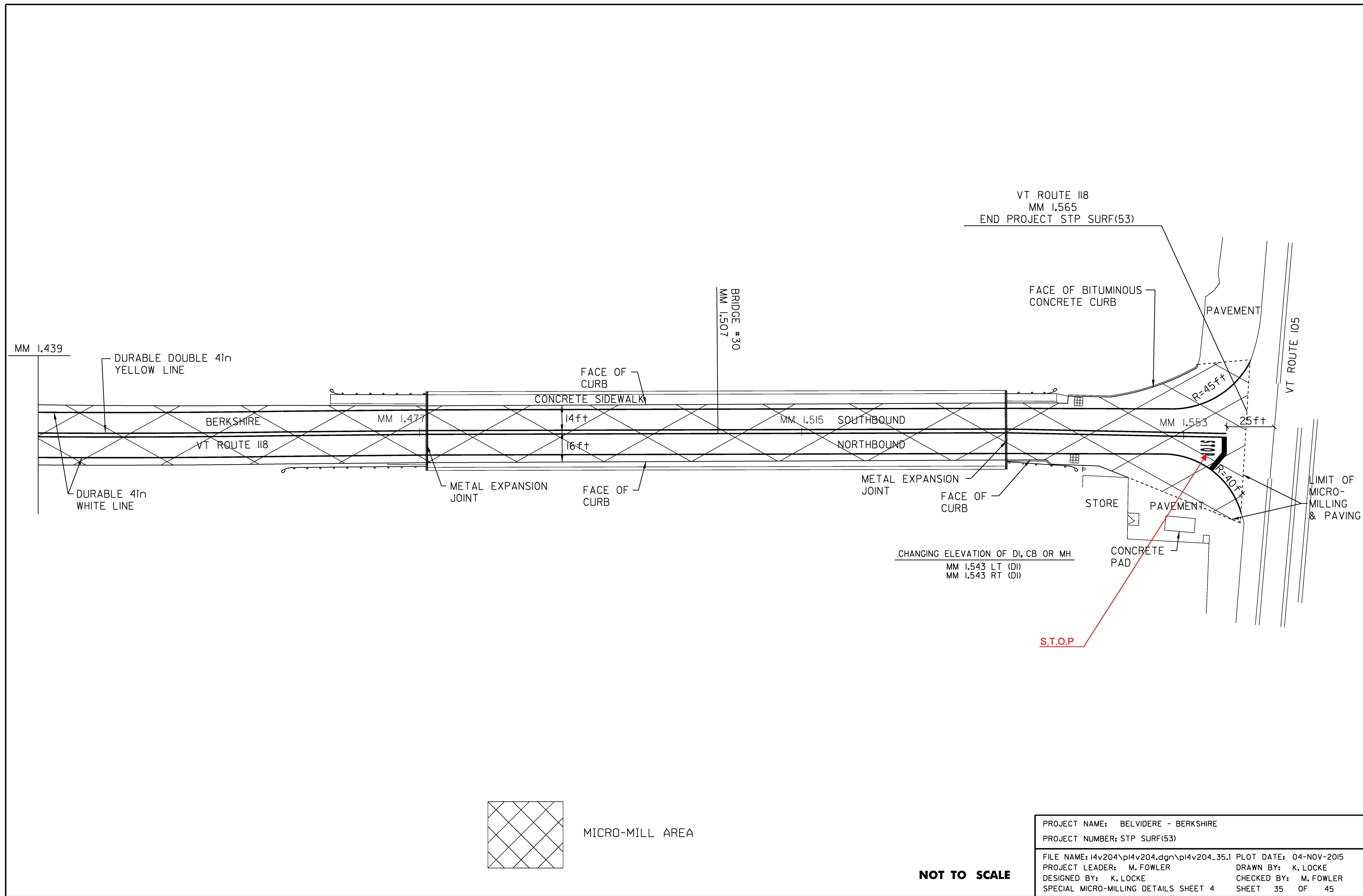




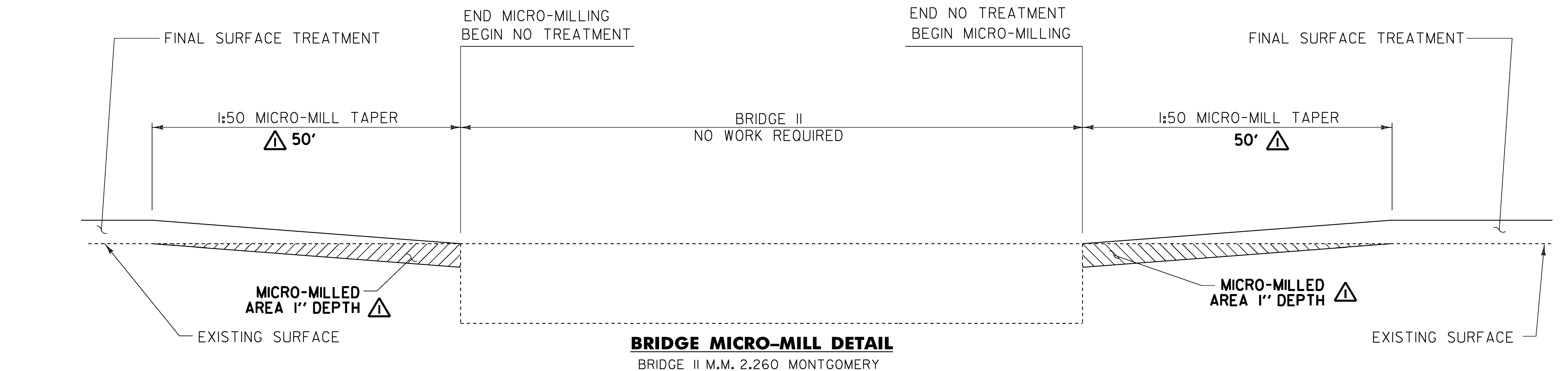




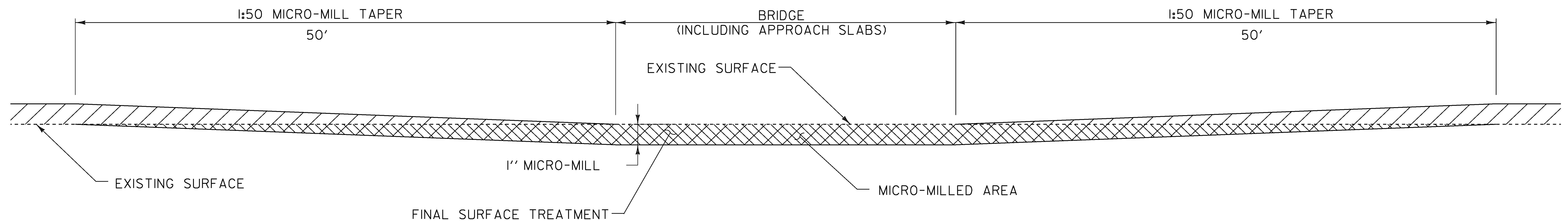








**BRIDGE MICRO-MILL DETAIL**  
BRIDGE II M.M. 2.260 MONTGOMERY



**BRIDGE MICRO-MILL DETAIL**  
BRIDGE I2 M.M. 2.974 MONTGOMERY

**NOTES:**

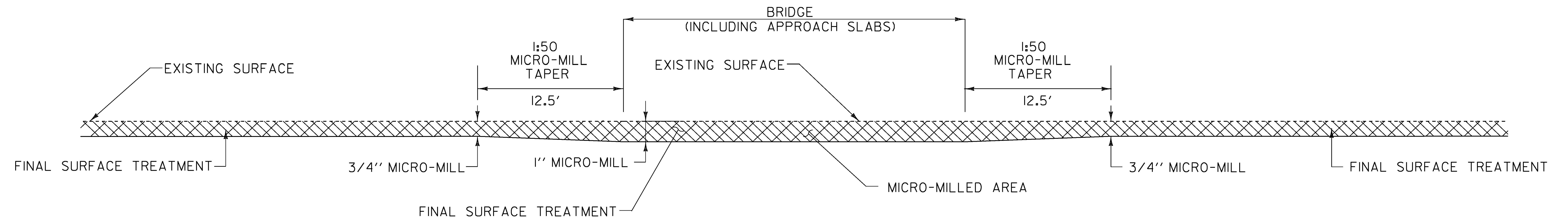
1. REFER TO ASPHALTIC PLUG JOINT DETAIL SHEET, SD-516.10. ALL NEW JOINTS WILL BE PAID FOR UNDER ITEM 516.10, "BRIDGE EXPANSION JOINT, ASPHALTIC PLUG."
2. THE CONTRACTOR SHALL TAKE PRECAUTIONS TO AVOID DAMAGING DRAINAGE STRUCTURES AND EXPANSION JOINTS. ANY DAMAGE CAUSED BY THE CONTRACTOR SHALL BE REPAIRED 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 MICRO-MILLING 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.

REVISION	DATE	DESCRIPTION	BY
△	01-27-16	CHANGED MICRO-MILL DEPTH TO 1" FROM 3/4". CHANGED MICRO-MILL TAPER LENGTHS.	KML

**NOT TO SCALE**

PROJECT NAME:	BELVIDERE - BERKSHIRE
PROJECT NUMBER:	STP SURF(53)
FILE NAME: I4v204\pi4v204.dgn\pi4v204_36.1	PLOT DATE: 26-JAN-2016
PROJECT LEADER: M. FOWLER	DRAWN BY: K. LOCKE
DESIGNED BY: K. LOCKE	CHECKED BY: M. FOWLER
BRIDGE DETAIL SHEET I	SHEET 36 OF 45





#### **BRIDGE MICRO-MILL DETAIL**

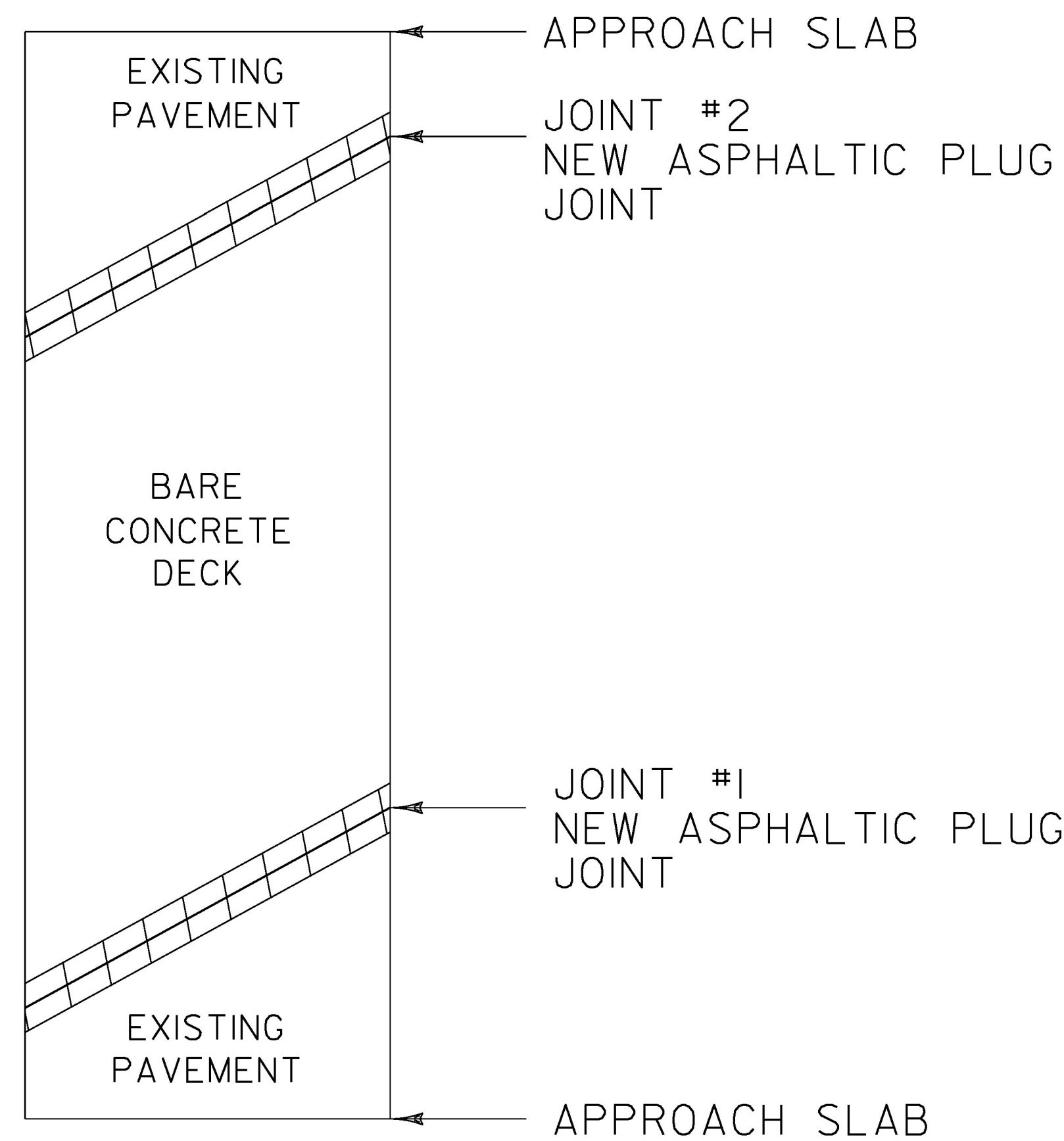
BRIDGE 15 M.M. 5.612 MONTGOMERY  
 BRIDGE 19 M.M. 8.355 MONTGOMERY  
 BRIDGE 20 M.M. 8.525 MONTGOMERY  
 BRIDGE 21 M.M. 8.691 MONTGOMERY  
 BRIDGE 23 M.M. 10.148 MONTGOMERY  
 BRIDGE 24 M.M. 0.621 ENOSBURG  
 BRIDGE 26 M.M. 0.639 BERKSHIRE  
 BRIDGE 30 M.M. 1.507 BERKSHIRE

**NOT TO SCALE**

PROJECT NAME:	BELVIDERE - BERKSHIRE
PROJECT NUMBER:	STP SURF(53)
FILE NAME: I4v204\pi4v204.dgn\pi4v204_37.1	PLOT DATE: 04-NOV-2015
PROJECT LEADER: M. FOWLER	DRAWN BY: K. LOCKE
DESIGNED BY: K. LOCKE	CHECKED BY: M. FOWLER
BRIDGE DETAIL SHEET 2	SHEET 37 OF 45



↑  
NORTHBOUND  
DIRECTION OF TRAVEL

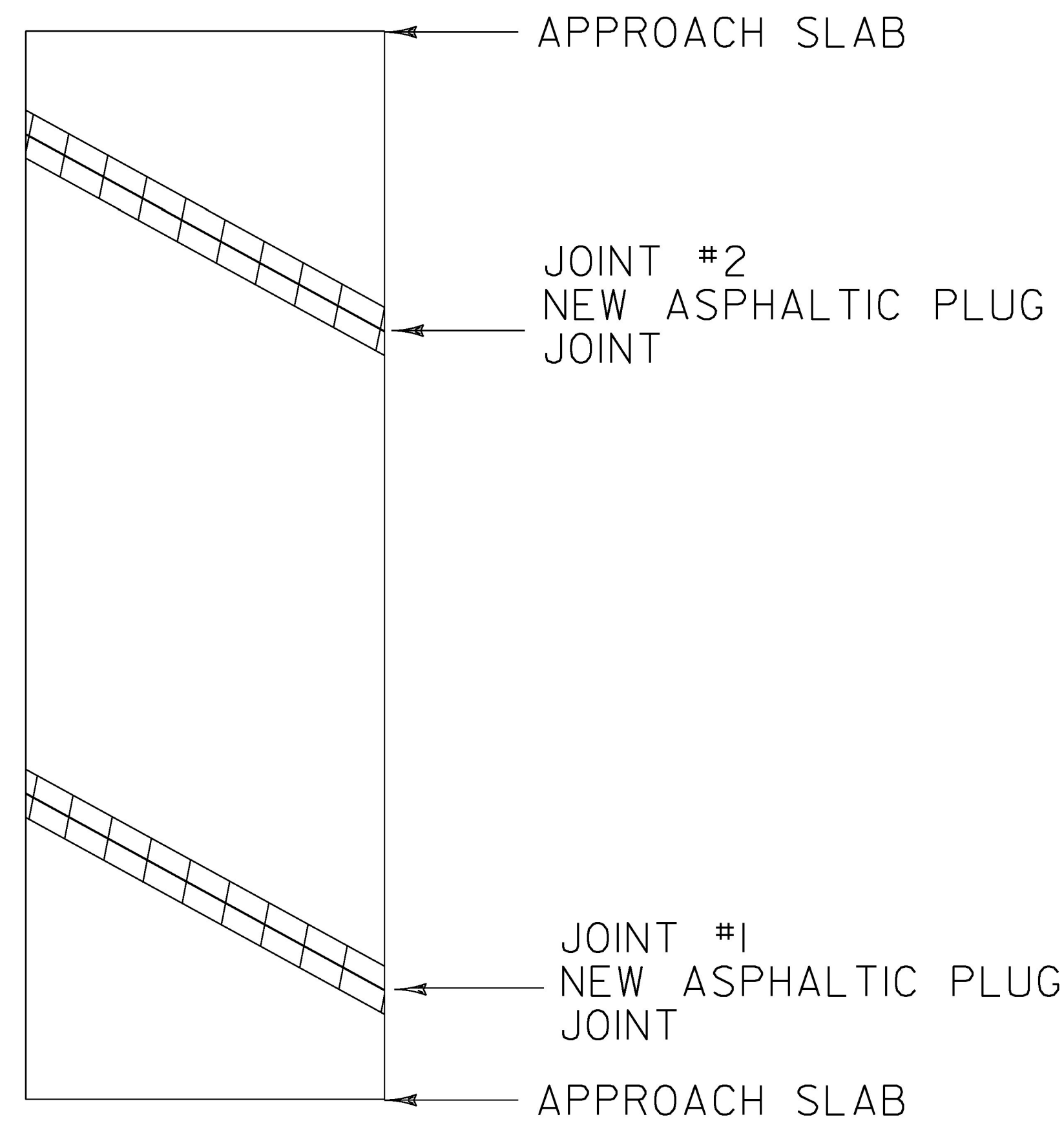


**BRIDGE 11**

MM 2.260 MONTGOMERY

LENGTH OF ASPHALTIC PLUG JOINTS:  
JOINT #1 - 45' (MM 2.255)  
JOINT #2 - 45' (MM 2.265)  
TOTAL = 90'

↑  
NORTHBOUND  
DIRECTION OF TRAVEL

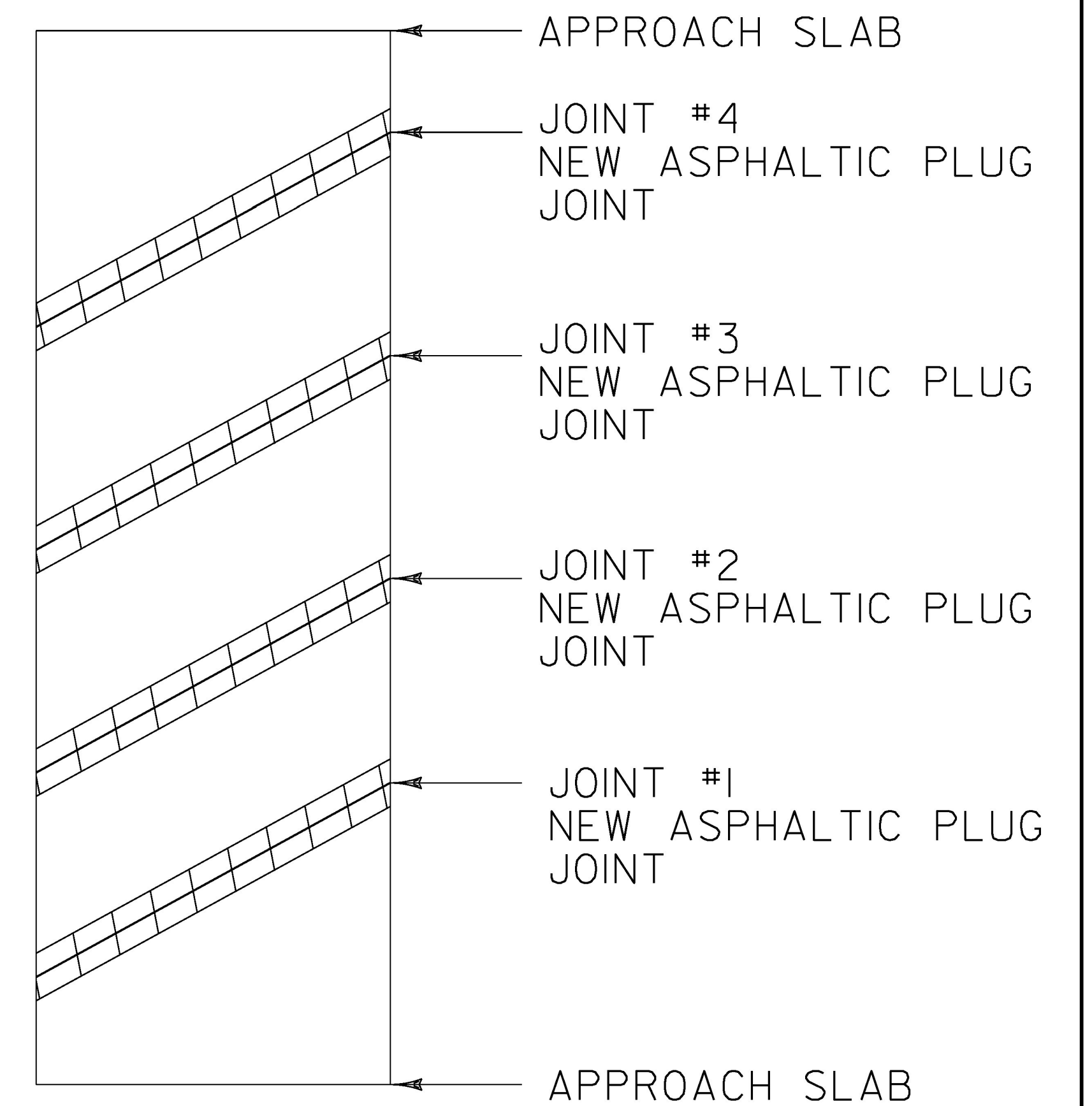


**BRIDGE 15**

MM 5.612 MONTGOMERY

LENGTH OF ASPHALTIC PLUG JOINTS:  
JOINT #1 - 29' (MM 5.604)  
JOINT #2 - 29' (MM 5.616)  
TOTAL = 58'

↑  
NORTHBOUND  
DIRECTION OF TRAVEL

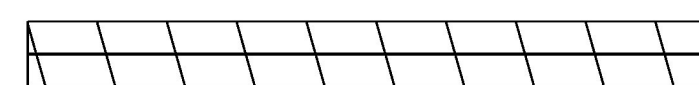


**BRIDGE 19**

MM 8.355 MONTGOMERY

LENGTH OF ASPHALTIC PLUG JOINTS:  
JOINT #1 - 34' (MM 8.341)  
JOINT #2 - 34' (MM 8.357)  
JOINT #3 - 34' (MM 8.374)  
JOINT #4 - 34' (MM 8.390)  
TOTAL = 136'

**LEGEND**



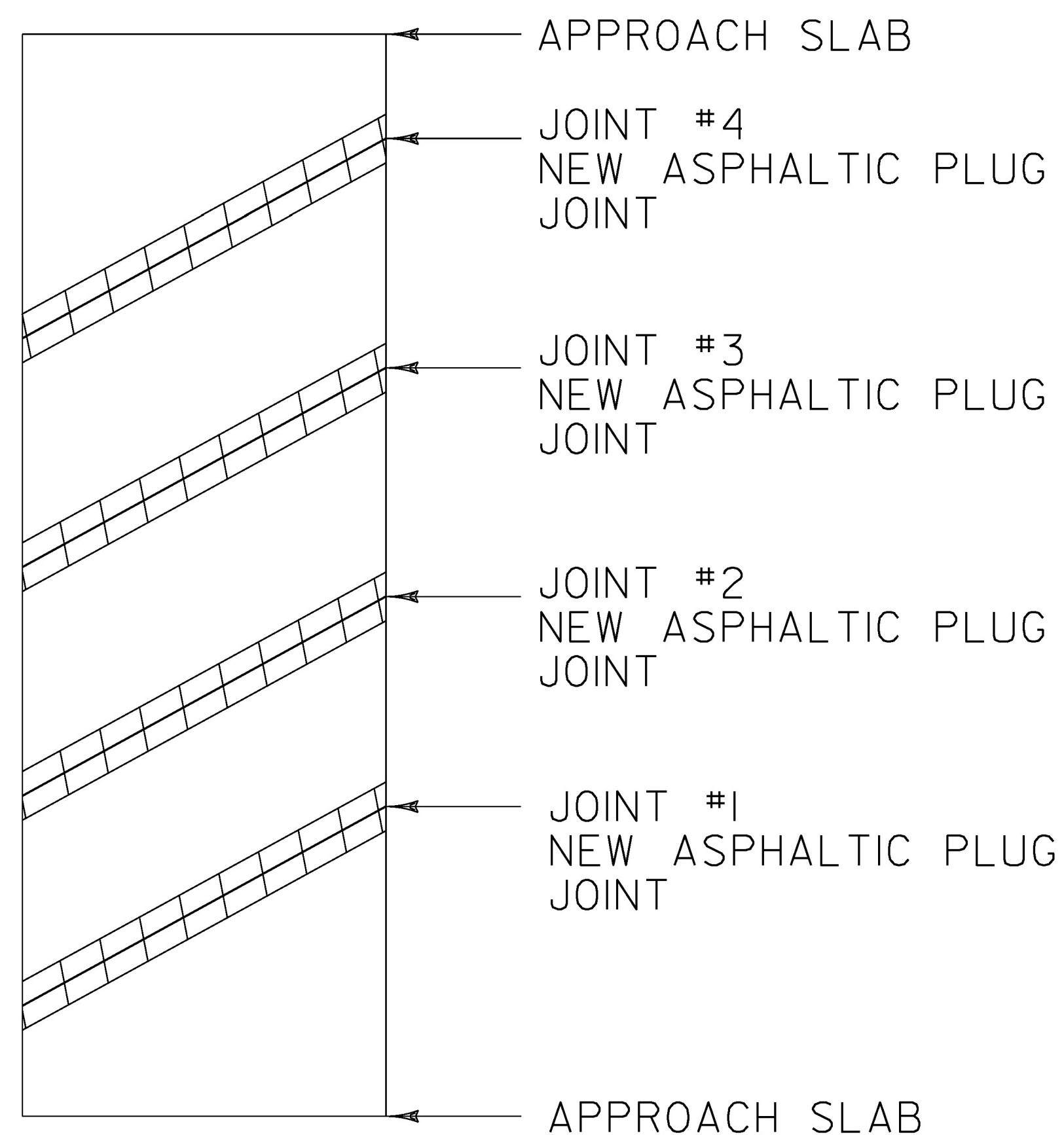
EXISTING BRIDGE JOINTS SHALL BE  
REPAIRED WITH ASPHALTIC PLUG JOINT

**NOT TO SCALE**

PROJECT NAME:	BELVIDERE - BERKSHIRE
PROJECT NUMBER:	STP SURF(53)
FILE NAME: I4v204\pi4v204.dgn\pi4v204_38.1	PLOT DATE: 04-NOV-2015
PROJECT LEADER: M. FOWLER	DRAWN BY: K. LOCKE
DESIGNED BY: K. LOCKE	CHECKED BY: M. FOWLER
BRIDGE DETAIL SHEET 3	SHEET 38 OF 45



↑  
NORTHBOUND  
DIRECTION OF TRAVEL



### **BRIDGE 20**

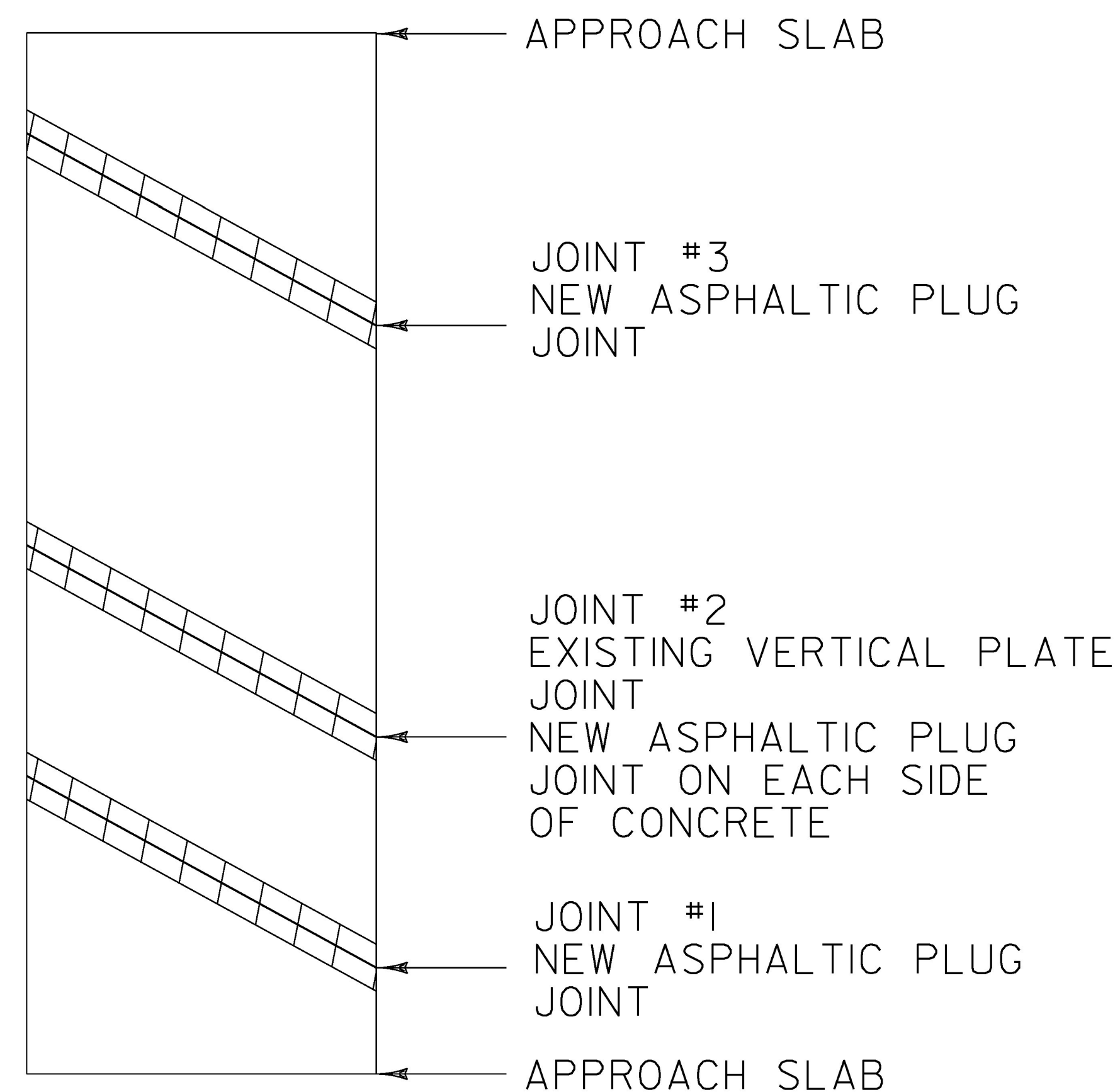
MM 8.525 MONTGOMERY

LENGTH OF ASPHALTIC PLUG JOINTS:

JOINT #1 - 34' (MM 8.513)  
JOINT #2 - 34' (MM 8.525)  
JOINT #3 - 34' (MM 8.537)  
JOINT #4 - 34' (MM 8.549)

TOTAL = 136'

↑  
NORTHBOUND  
DIRECTION OF TRAVEL



### **BRIDGE 21**

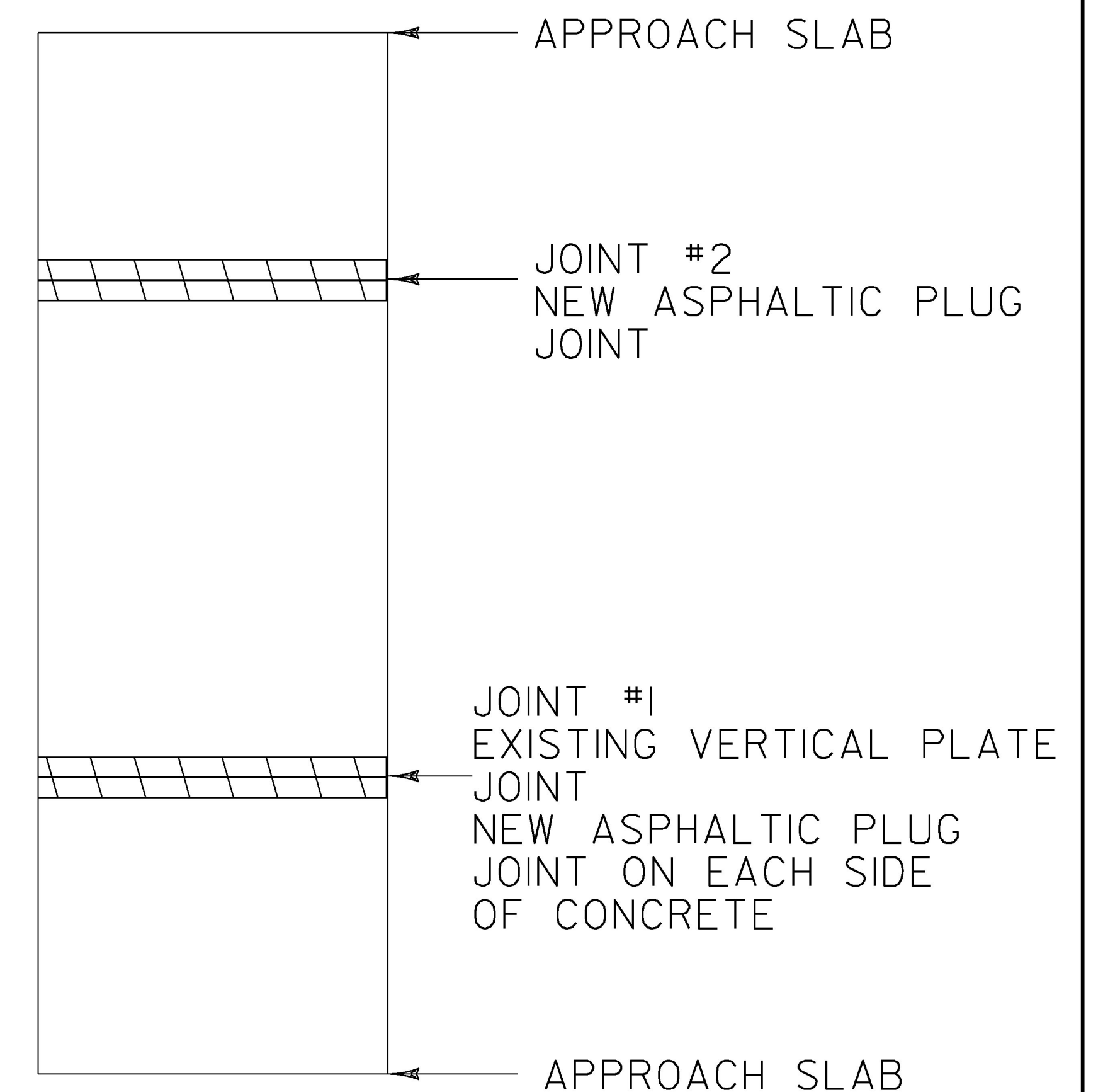
MM 8.691 MONTGOMERY

LENGTH OF ASPHALTIC PLUG JOINTS:

JOINT #1 - 32' (MM 8.672)  
JOINT #2 - 32' X 2 = 64' (MM 8.679)  
JOINT #3 - 32' (MM 8.707)

TOTAL = 128'

↑  
NORTHBOUND  
DIRECTION OF TRAVEL



### **BRIDGE 26**

MM 0.639 BERKSHIRE

LENGTH OF ASPHALTIC PLUG JOINTS:

JOINT #1 - 30' X 2 = 60' (MM 0.626)  
JOINT #2 - 30' (MM 0.653)

TOTAL = 90'

### **LEGEND**

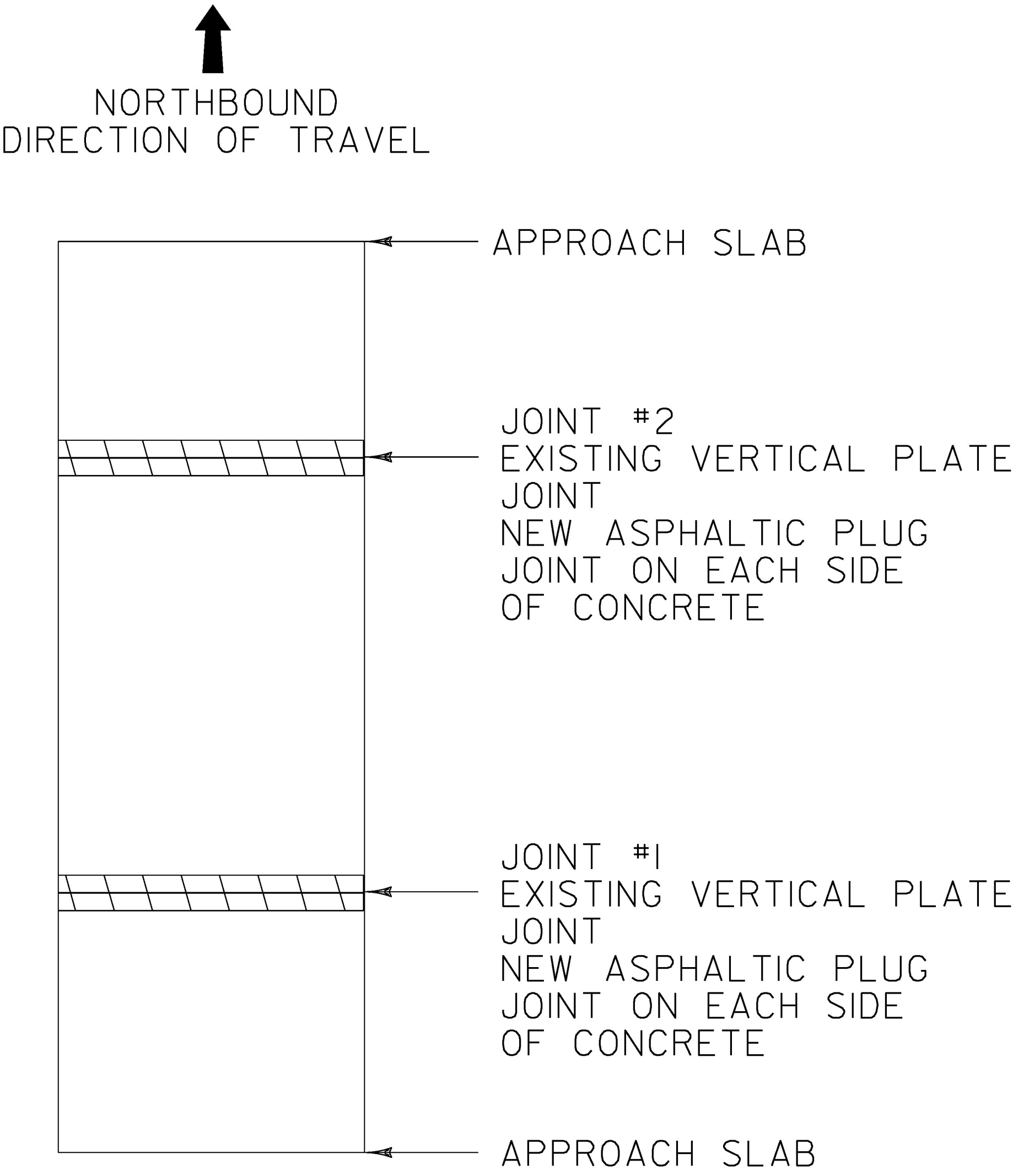


EXISTING BRIDGE JOINTS SHALL BE  
REPAIRED WITH ASPHALTIC PLUG JOINT

**NOT TO SCALE**

PROJECT NAME:	BELVIDERE - BERKSHIRE
PROJECT NUMBER:	STP SURF(53)
FILE NAME: I4v204\pi4v204.dgn\pi4v204_39.I	PLOT DATE: 04-NOV-2015
PROJECT LEADER: M. FOWLER	DRAWN BY: K. LOCKE
DESIGNED BY: K. LOCKE	CHECKED BY: M. FOWLER
BRIDGE DETAIL SHEET 4	SHEET 39 OF 45



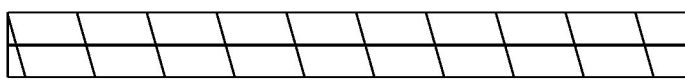


**BRIDGE 30**

MM 1.507 BERKSHIRE

LENGTH OF ASPHALTIC PLUG JOINTS:  
JOINT #1 - 30' X 2 = 60' (MM 1.481)  
JOINT #2 - 30' X 2 = 60' (MM 1.536)  
TOTAL = 120'

**LEGEND**



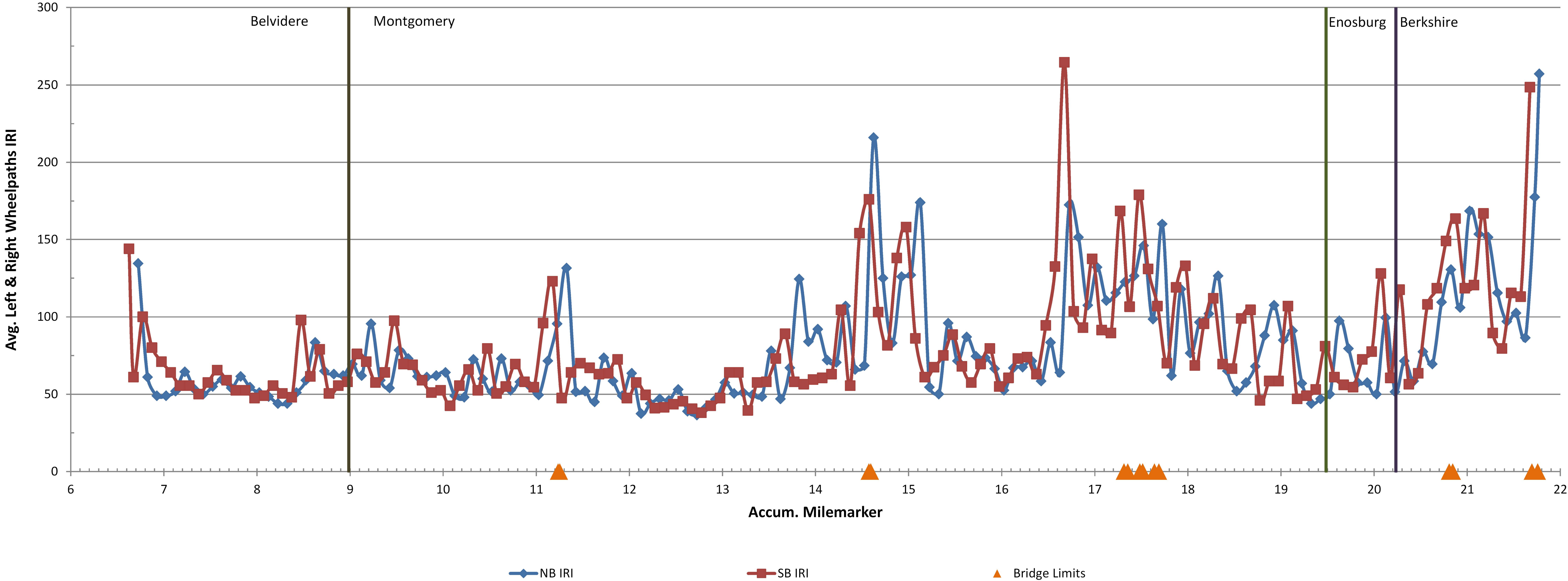
EXISTING BRIDGE JOINTS SHALL BE  
REPAIRED WITH ASPHALTIC PLUG JOINT

**NOT TO SCALE**

PROJECT NAME:	BELVIDERE - BERKSHIRE
PROJECT NUMBER:	STP SURF(53)
FILE NAME: I4v204\pi4v204.dgn\pi4v204_40.1	PLOT DATE: 04-NOV-2015
PROJECT LEADER: M. FOWLER	DRAWN BY: K. LOCKE
DESIGNED BY: K. LOCKE	CHECKED BY: M. FOWLER
BRIDGE DETAIL SHEET 5	SHEET 40 OF 45



VT 118 Belvidere-Berkshire STP SURF(53) PreCon IRI  
 Profiled 10/1/2015  
 NB Avg. IRI = 79.2 SB Avg. IRI = 80.3

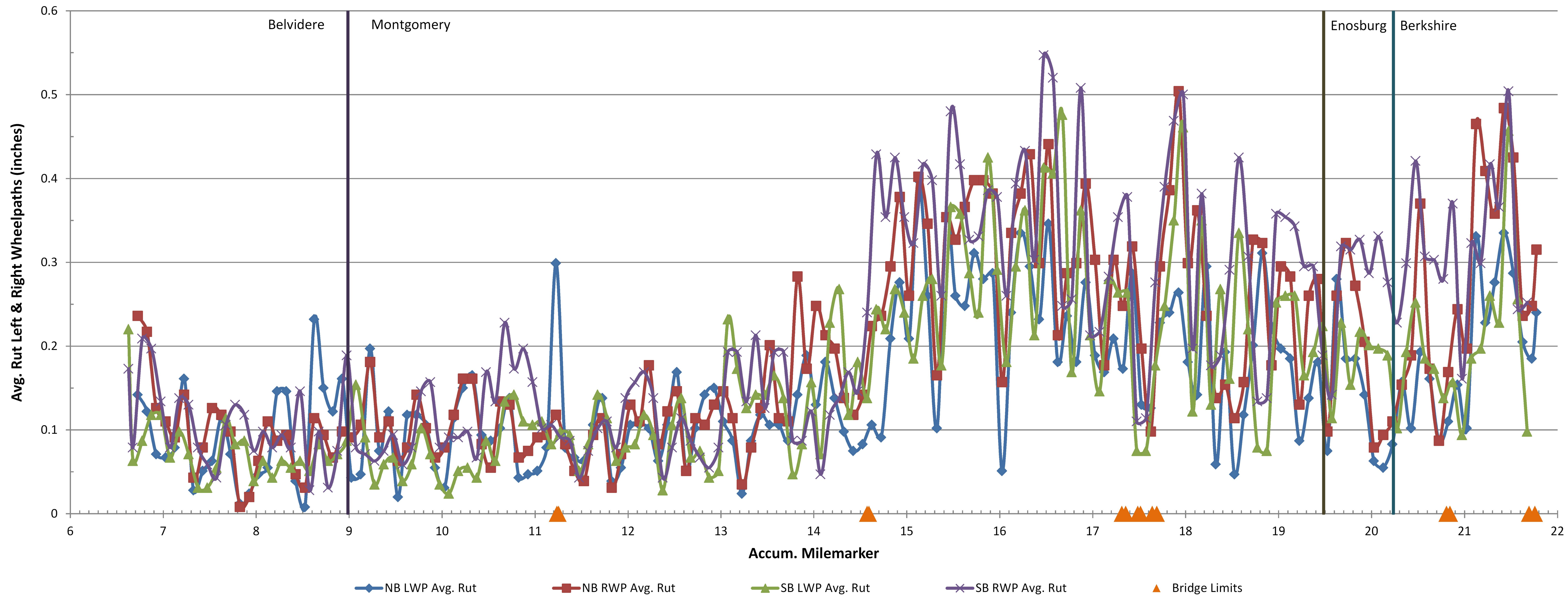


FOR INFORMATIONAL PURPOSES ONLY

PROJECT NAME:	BELVIDERE - BERKSHIRE
PROJECT NUMBER:	STP SURF(53)
FILE NAME: I4v204\pl4v204.dgn\pl4v204_41.i	PLOT DATE: 04-NOV-2015
PROJECT LEADER: M. FOWLER	DRAWN BY: K. LOCKE
DESIGNED BY: K. LOCKE	CHECKED BY: M. FOWLER
ROUGHNESS DATA INFORMATION SHEET	SHEET 41 OF 45



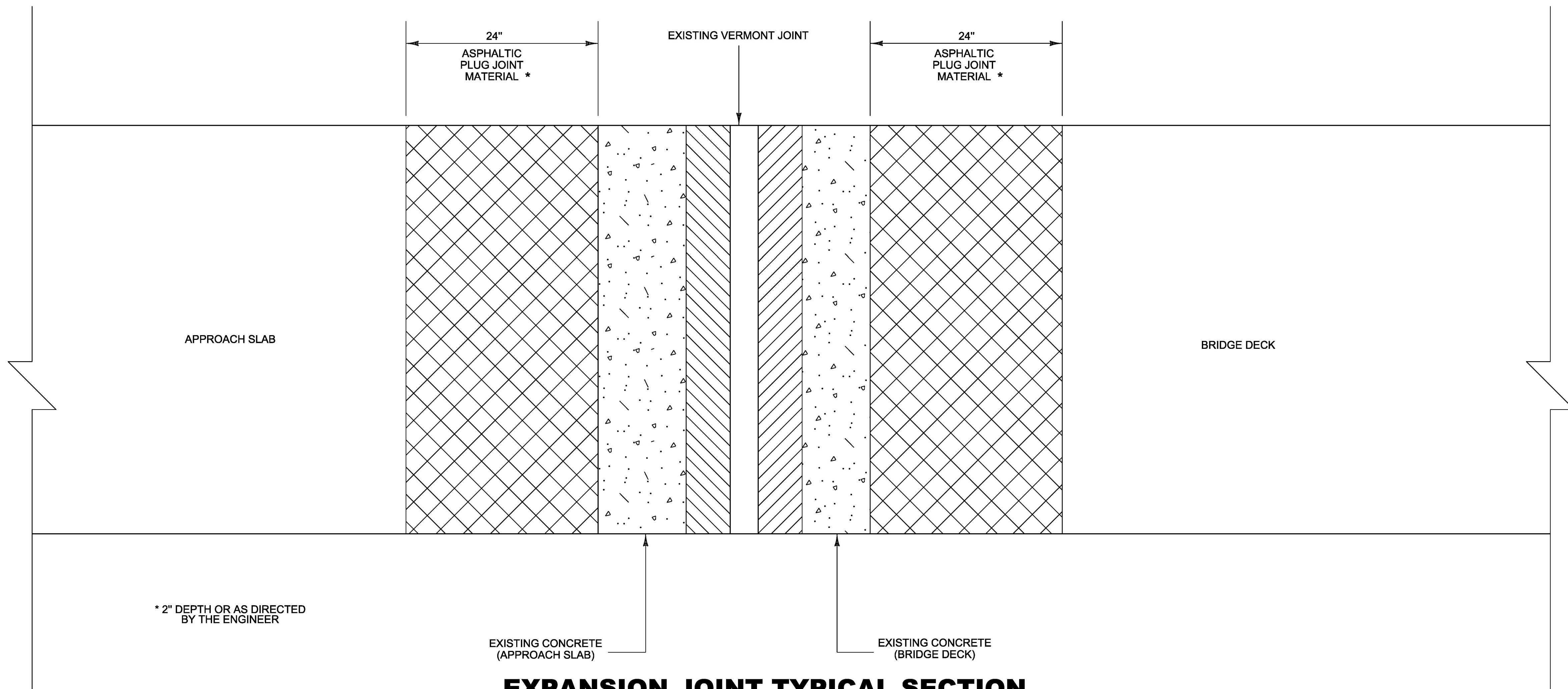
VT 118 Belvidere-Berkshire STP SURF(53) PreCon Ruts  
Profiled 10/1/2015



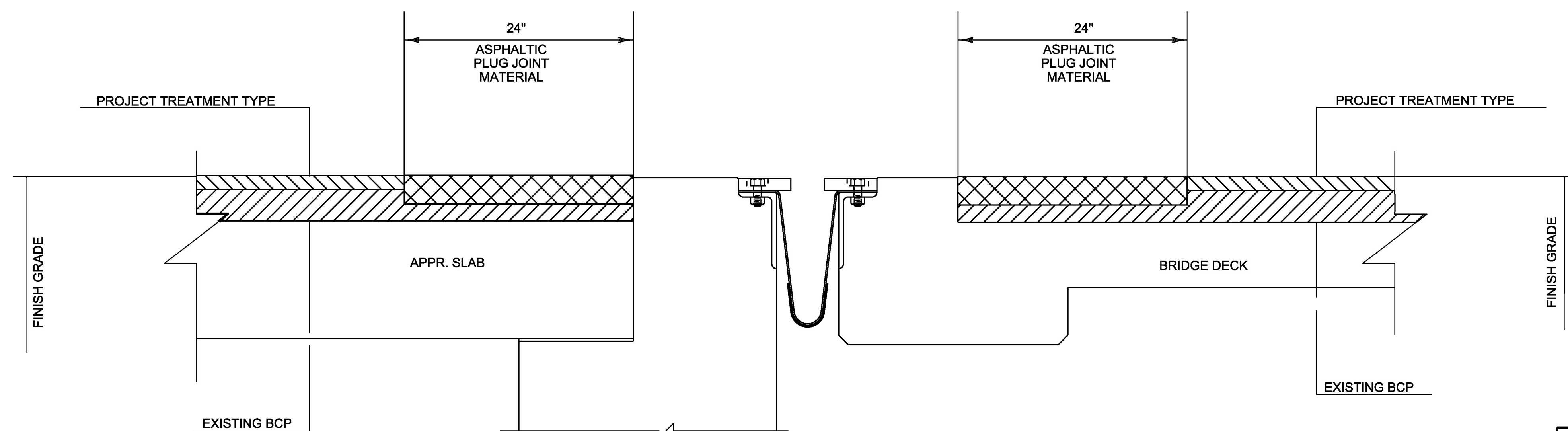
**FOR INFORMATIONAL PURPOSES ONLY**

PROJECT NAME:	BELVIDERE - BERKSHIRE
PROJECT NUMBER:	STP SURF(53)
FILE NAME: I4v204\pl4v204.dgn\pl4v204_42.i	PLOT DATE: 04-NOV-2015
PROJECT LEADER: M. FOWLER	DRAWN BY: K. LOCKE
DESIGNED BY: K. LOCKE	CHECKED BY: M. FOWLER
RUTTING DATA INFORMATION SHEET	SHEET 42 OF 45





**EXPANSION JOINT TYPICAL SECTION  
PLAN VIEW  
(VERTICAL PLATE/VERMONT JOINT)**



**EXPANSION JOINT TYPICAL SECTION  
CROSS SECTION  
(VERTICAL PLATE/VERMONT JOINT)**

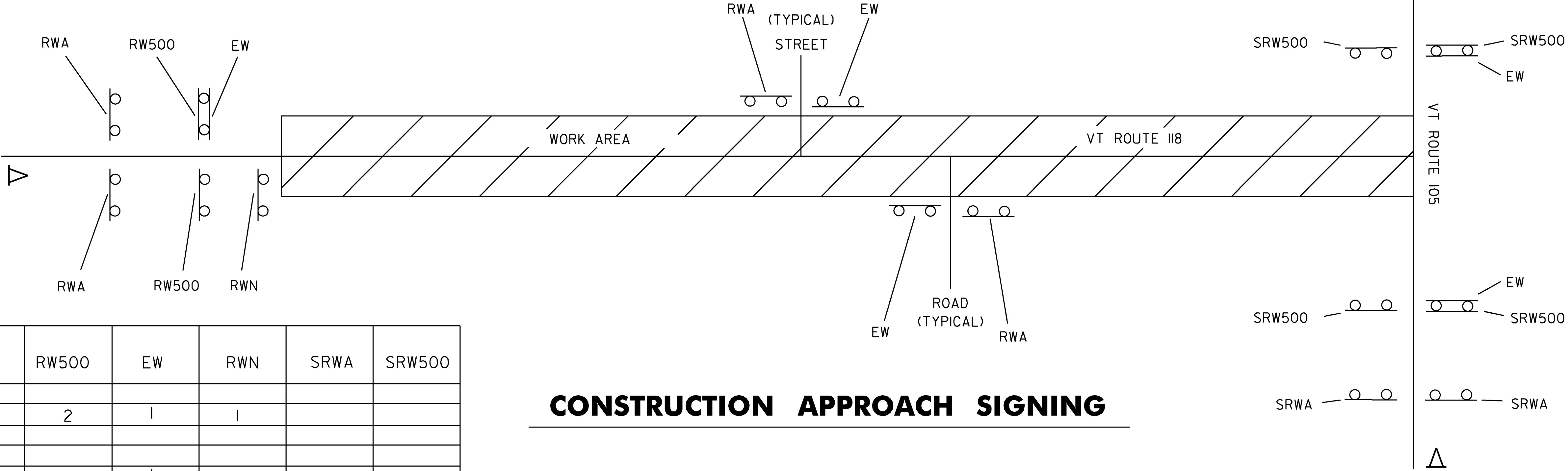
NOT TO SCALE

PROJECT NAME: BELVIDERE - BERKSHIRE	
PROJECT NUMBER: STP SURF(53)	
FILE NAME: \pl4v204.dgn\pl4v204_43.1	PLOT DATE: 04-NOV-2015
PROJECT LEADER: MJF	DRAWN BY: JLR
DESIGNED BY: KML	CHECKED BY: MJF
EXPANSION JOINT DETAILS SHEET	SHEET 43 OF 45



LIST OF  
CONSTRUCTION SIGNS

TOWN HIGHWAY	RWA	RW500	EW	RWN	SRWA	SRW500
BELVIDERE						
BEGIN PROJECT	2	2				
MONTGOMERY						
NUTTING RD						
S. BRANCH RD						
REAGAN RD						
SUNDELL RD						
GIBOU RD						
SOUTH BROOK RD						
SOUTH BROOK RD						
NOTCH RD						
GRANNY GRUNTS RD						
VT ROUTE 242						
TROUT RIVER RD						
RIVER ST						
SCHOOL DRIVE						
DREAMERS RD						
TH #41						
TH #1						
TH #39						
TH #42						
BANK RD						
COMSTOCK BRIDGE RD						
HILL WEST RD						
WEST HILL RD						
LONGLEY BRIDGE RD						
ENOSBURG						
HOPKINS BRIDGE RD						
PRIVE HILL RD						
BERKSHIRE						
WOODARD NEIGHBORHOOD RD						
PERLEY RD						
VT ROUTE 105 (END PROJ)			2		4	4
TOTALS	29	2	30	1	4	4



CONSTRUCTION APPROACH SIGNING

LEGEND

- RWA = ROAD WORK AHEAD  
RW500 = ROAD WORK 500 FEET  
EW = END WORK  
RWN = ROAD WORK NEXT 15 MILES  
SRWA = SIDE ROAD WORK AHEAD  
SRW500 = SIDE ROAD WORK 500 FEET  
△ = PORTABLE CHANGEABLE MESSAGE SIGN

NOT TO SCALE

PROJECT NAME:	BELVIDERE - BERKSHIRE
PROJECT NUMBER:	STP SURF(53)
FILE NAME:	I4v204\pi4v204.dgn\pi4v204_44.1
PLLOT DATE:	04-NOV-2015
PROJECT LEADER:	M. FOWLER
DRAWN BY:	K. LOCKE
DESIGNED BY:	K. LOCKE
CHECKED BY:	M. FOWLER
CONSTRUCTION APPROACH SIGNING SHEET	SHEET 44 OF 45



NOTES:

1. THE CONTRACTOR SHALL SUBMIT A SITE SPECIFIC TRAFFIC CONTROL PLAN TO THE ENGINEER FOR APPROVAL PRIOR TO BEGINNING ANY FIELD WORK IN ACCORDANCE WITH SECTION 105.03. THE COST OF PREPARING THIS PLAN (AND MAKING CHANGES IF NECESSARY) WILL NOT BE PAID SEPARATELY BUT WILL BE INCLUDED IN THE UNIT PRICE BID FOR ITEM 641.10, TRAFFIC CONTROL.

2. THE CONTRACTOR SHALL INCLUDE A CONSTRUCTION APPROACH SIGN PACKAGE FOR EXPECTED LANE CLOSURES AND WORK ZONE SPEED REDUCTIONS IN COMPLIANCE WITH VAOT STANDARD T-17 AND THE LATEST EDITION OF THE MUTCD. PAYMENT FOR PROVIDING THIS PACKAGE WILL BE CONSIDERED INCIDENTAL TO ITEM 641.10, TRAFFIC CONTROL.

3. THE BID PRICE FOR TRAFFIC CONTROL, ITEM 641.10, WILL 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 WILL ALSO BE INCLUDED. THE FOLLOWING ITEMS WILL BE PAID FOR SEPARATELY: 630.10 - UNIFORMED TRAFFIC OFFICERS, AND 630.15 - FLAGGERS, 646.602 - TEMPORARY 4 INCH WHITE LINE, PAINT, 646.612 - TEMPORARY 4 INCH YELLOW LINE, PAINT, 646.642 - TEMPORARY 8 INCH WHITE LINE, PAINT, 646.682 - TEMPORARY 24 INCH STOP BAR, PAINT, 646.692 - TEMPORARY LETTER OR SYMBOL, PAINT, AND 646.76 - LINE STRIPING TARGETS.

4. 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.

FOR THE DURATION OF THE PROJECT, THE CONTRACTOR SHALL POSITION A PCMS PRIOR TO THE BEGIN AND END PROJECT LIMITS WARNING MOTORISTS OF EXPECTED ROADWAY CONDITIONS AND REDUCED ROADWAY WIDTHS.

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.

5. 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 TOWN HIGHWAYS.

6. REFER TO VAOT STANDARDS AND THE LATEST EDITION OF THE MUTCD FOR TEMPORARY TRAFFIC CONTROL SIGN COLORS.

7. EXISTING SPEED LIMIT SIGNS SHALL BE COVERED WHEN REDUCED SPEED SIGNS ARE POSTED. KEEP RECORDS WHEN POSTING THE WORK ZONE SPEED LIMIT FOR LEGAL PURPOSES; DOCUMENTING DATES, TIMES, AND LOCATIONS OF SIGNS. WHEN WORK ZONE SPEED LIMIT IS NOT IN USE ALL ASSOCIATED SIGNS SHALL BE COVERED, TURNED AND/OR LAID FLAT SO AS THE MOTORING PUBLIC CANNOT READ THESE SIGNS.

8. PORTABLE OR STATIONARY WORK ZONE SPEED LIMIT SIGNS SHOULD BE SPACED EVERY 1.5 TO 2 MILES WHERE APPLICABLE AND AFTER INTERSECTIONS AS A REMINDER TO THE MOTORIST TRAVELING THROUGH THE WORK ZONE WHAT SPEED THEY SHOULD BE TRAVELING.

9. WHEN REDUCED REGULATORY SPEED LIMIT SIGNS ARE USED, THE RESUMPTION OF THE USUAL SPEED LIMIT SHALL BE INDICATED BY AN APPROPRIATE SPEED LIMIT SIGN AT THE END OF THE WORK ZONE.

10. THE CONTRACTOR SHALL MAINTAIN PEDESTRIAN THROUGH MOVEMENTS FROM ONE END OF THE CONSTRUCTION AREA TO THE OTHER, ON AT LEAST ONE SIDE OF THE STREET DURING CONSTRUCTION. ANY SIDEWALK CLOSURES SHALL MEET THE REQUIREMENTS OF THE MUTCD, PART 6.

11. PEDESTRIAN ACCESS SHALL BE PROVIDED TO ALL ADJACENT PROPERTIES, BUILDINGS, RESIDENCES AND COMMERCIAL PROPERTIES AT ALL TIMES. THIS MAY INCLUDE TEMPORARY WALKWAYS SPANNING THE CONSTRUCTION AREA.

12. IF SIDEWALKS ARE CLOSED, A TEMPORARY PEDESTRIAN ACCESS ROUTE (TPAR) SHALL BE PROVIDED ON THE SAME SIDE OF THE ROAD AS THE CLOSED SIDEWALK, IF POSSIBLE. SIGNS AND BARRICADES SHALL BE USED TO PROVIDE ADVANCE NOTICE OF THE CLOSURE AND THE ROUTE OF ANY PEDESTRIAN DETOURS. THE TPAR SHALL HAVE A MINIMUM UNOBSTRUCTED WIDTH OF FOUR FEET. IF THE TPAR IS LESS THAN FIVE FEET IN WIDTH, A FIVE FOOT BY FIVE FOOT PASSING SPACE SHOULD BE PROVIDED AT LEAST EVERY 200 FEET. THE SURFACE OF THE TPAR SHALL BE SMOOTH AND CONTINUOUS FOR THE LENGTH OF THE TPAR. THE TPAR SHALL MAINTAIN THE SAME LEVEL OF ACCESSIBILITY AND DETECTABILITY AS THE FACILITY THAT IS BEING CLOSED. THE TPAR SHALL NOT LEAD PEDESTRIANS INTO CONFLICT WITH VEHICLES, EQUIPMENT, OR CONSTRUCTION OPERATIONS.

13. IF THE TPAR IS ADJACENT TO MOVING TRAFFIC, CONSTRUCTION OPERATIONS/EQUIPMENT, OR DROP-OFFS, THEN CRASH WORTHY CHANNELIZING DEVICES THAT MEET THE REQUIREMENTS OF THE MUTCD SHALL BE USED.

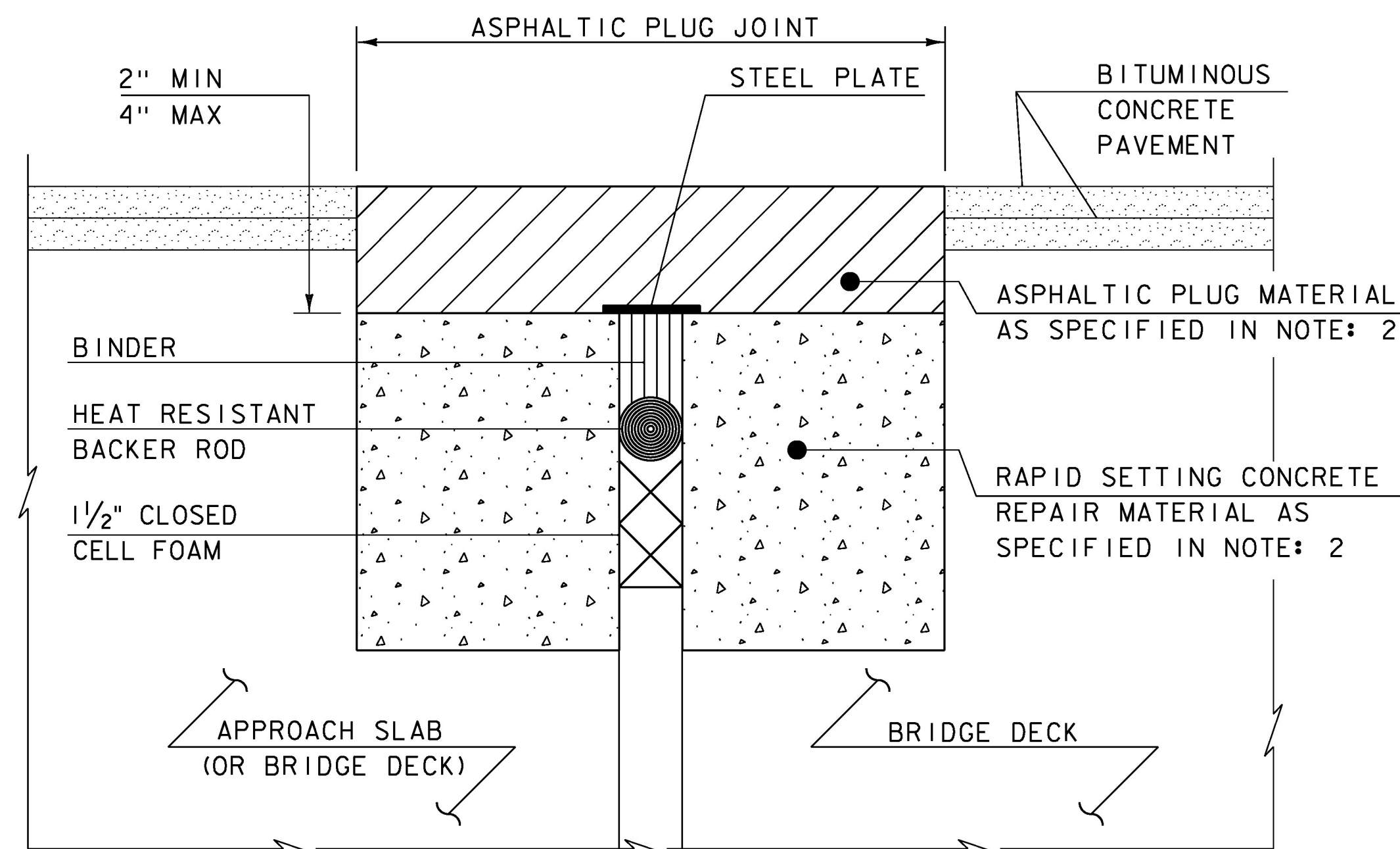
14. THE CONTRACTOR SHALL NOT STORE OR PLACE ANY CONSTRUCTION MATERIALS, EQUIPMENT OR SIGNS IN THE PEDESTRIAN PATH OF TRAVEL.

15. THE CONTRACTOR'S OPERATIONS SHALL NOT OCCUPY SIDEWALKS EXCEPT WHERE PROPER PROTECTION AND A TPAR HAVE BEEN PROVIDED.

16. THE CONTRACTOR SHALL SUBMIT A TEMPORARY PEDESTRIAN TRAFFIC CONTROL PLAN FOR REVIEW AND WRITTEN APPROVAL TO THE ENGINEER A MINIMUM OF THREE WEEKS BEFORE SUCH PLAN IS IMPLEMENTED. THIS PLAN SHALL DETAIL THE CONSTRUCTION PHASING AND SCHEDULE AND THE SPECIFIC METHODS OF MAINTAINING SAFE PEDESTRIAN ACCESS THROUGHOUT THE CONSTRUCTION AREA. THIS PLAN SHALL PROVIDE THE LOCATION AND DETAILS OF TEMPORARY CONSTRUCTION SIGNING, MARKINGS, BARRICADES, CHANNELIZING DEVICES, TPARS AND METHODS TO MAINTAIN ACCESS TO ADJACENT PROPERTIES, BUSINESSES, RESIDENCES, ETC. PAYMENT FOR DEVELOPING, IMPLEMENTING, AND MAINTAINING THE TEMPORARY PEDESTRIAN TRAFFIC CONTROL PLAN WILL BE INCLUDED IN THE UNIT PRICE BID FOR CONTRACT ITEM 641.10.

PROJECT NAME:	BELVIDERE - BERKSHIRE		
PROJECT NUMBER:	STP SURF(53)		
FILE NAME:	I4v204\pi4v204.dgn\pi4v204_45.1		
PLOT DATE:	04-NOV-2015		
PROJECT LEADER:	M. FOWLER	DRAWN BY:	K. LOCKE
DESIGNED BY:	K. LOCKE	CHECKED BY:	M. FOWLER
TRAFFIC CONTROL NOTES SHEET		SHEET	45 OF 45

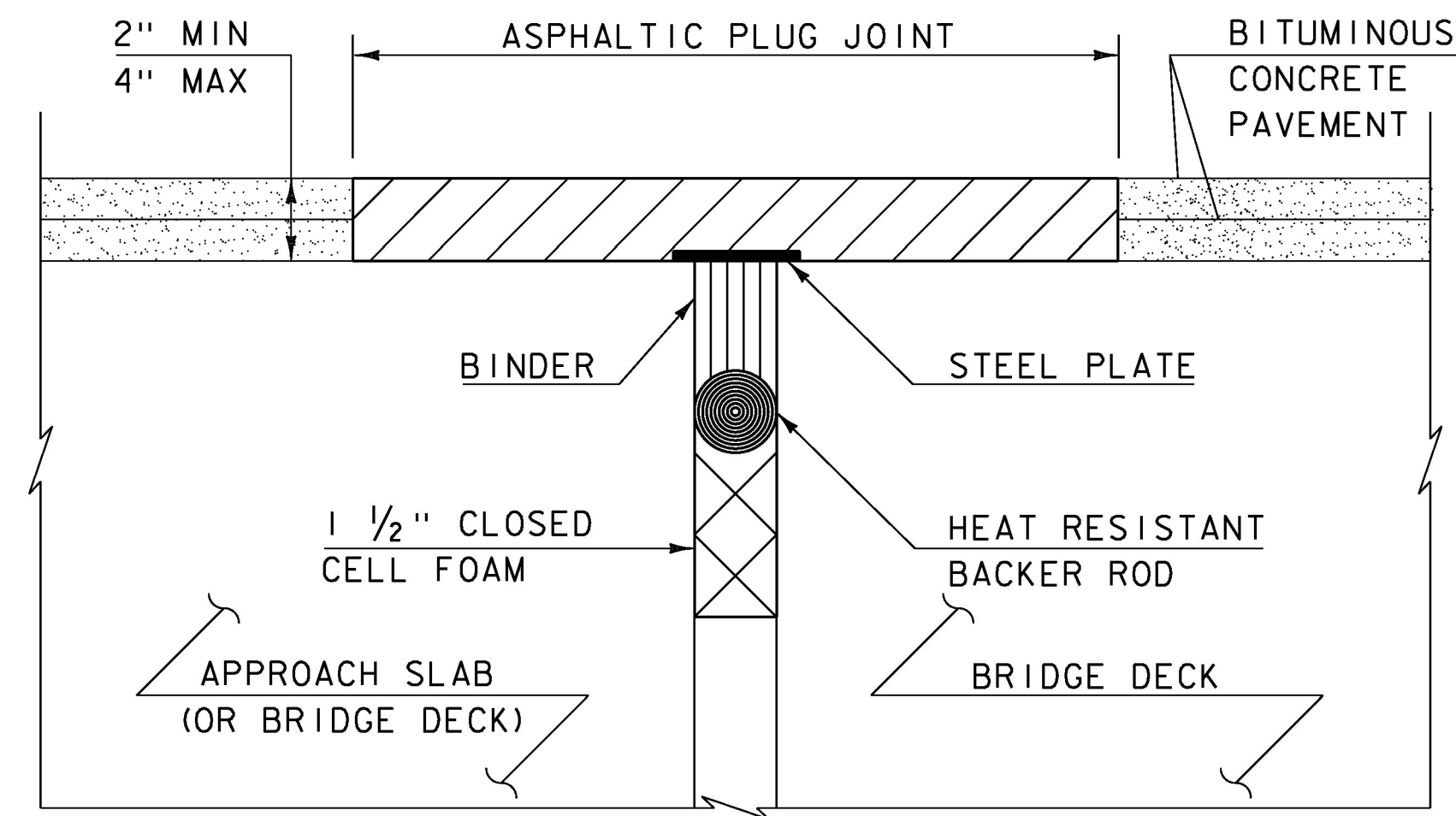




ASPHALTIC PLUG-TYPE JOINT DETAIL - REHAB

NOTES: (NOT TO SCALE)

1. THE CONTRACTOR SHALL REMOVE ALL ASPHALTIC PLUG JOINT MATERIAL AND DETERIORATED CONCRETE AS DIRECTED BY THE ENGINEER. REMOVAL OF THE FIRST 4 INCHES OF MATERIAL SHALL BE INCLUDED IN THE BID PRICE FOR ITEM 516.10 BRIDGE EXPANSION JOINT, ASPHALTIC PLUG. ANY REMOVAL OF MATERIAL GREATER THAN 4 INCHES SHALL BE INCLUDED IN THE BID PRICE OF ITEM 580.20 RAPID SETTING CONCRETE REPAIR MATERIAL WITH COURSE AGGREGATE.
2. THE CONTRACTOR SHALL REPLACE REMOVED MATERIAL THAT IS LESS THAN 4" FROM FINISHED GRADE WITH ASPHALTIC PLUG JOINT MATERIAL MEETING THE REQUIREMENTS OF SUBSECTION 707.15. ALL REMOVED MATERIAL THAT IS GREATER THAN 4 INCHES FROM FINISHED GRADE SHALL BE REPLACED WITH RAPID SETTING CONCRETE REPAIR MATERIAL WITH COARSE AGGREGATE MEETING THE REQUIREMENTS OF SUBSECTION 780.04.
3. REINFORCING STEEL NOT SHOWN FOR CLARITY.



ASPHALTIC PLUG-TYPE JOINT DETAIL - NEW  
(NOT TO SCALE)

ASPHALTIC PLUG JOINT NOTES

INSTALLATION:

1. LOCATE THE JOINT CENTRALLY OVER THE DECK OVERLAY EXPANSION GAP OR FIXED JOINT, MARKED OUT TO THE MANUFACTURER'S RECOMMENDED WIDTH.
2. REMOVE THE BITUMINOUS CONCRETE PAVEMENT FULL DEPTH AS SHOWN ON THE PLANS. THE PAVEMENT SHALL BE DRY AND SAW CUT TO THE LIMITS REQUIRED TO PLACE THE JOINT. A PNEUMATIC HAMMER AND CHISEL MAY BE USED ADJACENT TO THE CURB ONLY WHEN SAW CUTTING IS NOT POSSIBLE.
3. BLAST CLEAN THE JOINT AREA OF DEBRIS, ASPHALT AND SHEET MEMBRANE. THOROUGHLY DRY THE JOINT AREA WITH COMPRESSED AIR PRIOR TO APPLYING BINDER MATERIAL.
4. REPAIR MATERIAL GREATER THAN 4 INCHES FROM FINISHED GRADE WITH RAPID SETTING CONCRETE REPAIR MATERIAL WITH COARSE AGGREGATE MEETING THE REQUIREMENTS OF SUBSECTION 780.04.
5. PLACE PROPERLY SIZED HEAT RESISTANT BACKER ROD IN THE MOVEMENT GAP ALLOWING FOR 1" +/- OF BINDER ABOVE THE ROD.
6. HEAT AND PLACE THE BINDER MATERIAL AS RECOMMENDED BY THE MANUFACTURER.
7. PLACE 1/4" THICK BY 8" WIDE SECTIONS OF STEEL PLATE OVER THE CENTER OF THE MOVEMENT GAP. SECURE THE PLATES FROM MOVING BY INSERTING LOCATING PINS THROUGH THE PRE-STAMPED HOLES INTO BACKER ROD AND COVER WITH HOT BINDER. THE STEEL PLATES MAY BE OMITTED WHERE THE ENGINEER DETERMINES THAT THE APPROACH SLAB OR BRIDGE DECK WILL PROVIDE INADEQUATE SUPPORT AND WHERE VERTICAL MOVEMENT OF THE PLATES MIGHT OCCUR.
8. HEAT AND MIX THE BINDER MATERIAL AND AGGREGATE AS RECOMMENDED BY THE MANUFACTURER.
9. INSTALLATION OF MATERIAL, COMPACTION, AND TOP COATING SHALL BE AS RECOMMENDED BY THE MANUFACTURER.
10. IMMEDIATELY AFTER TOP COATING, CAST AN ANTI-SKID MATERIAL OVER THE JOINT TO REDUCE THE RISK OF TRACKING.
11. ONCE THE JOINT REACHES 82 DEG C (180 DEG F) +/-, WATER MAY BE USED TO EXPEDITE THE COOLING PROCESS.
12. PROTECT JOINT FROM TRAFFIC UNTIL THE MATERIAL HAS COOLED TO 51 DEG C (125 DEG F) +/-.

WEATHER LIMITATIONS

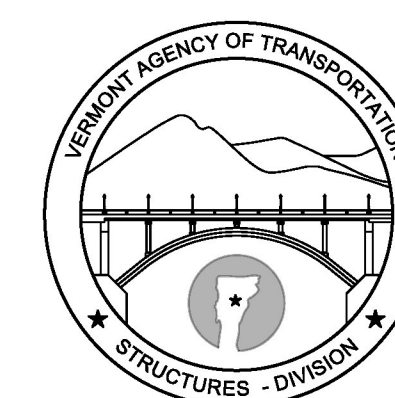
APPLY BINDER MATERIAL ONLY WHEN THE FOLLOWING CONDITIONS PREVAIL OR AS RECOMMENDED BY THE MANUFACTURER:

1. THE AMBIENT AIR TEMPERATURE IS AT LEAST 10 DEG C (50 DEG F) AND RISING.
2. THE ROAD SURFACE IS DRY.
3. WEATHER CONDITIONS OR OTHER CONDITIONS ARE FAVORABLE AND ARE EXPECTED TO REMAIN SO FOR THE PERFORMANCE OF SATISFACTORY WORK.

REVISIONS

MAY 7, 2010	APPROVED FOR USE BY VAOT STRUCTURES SECTION

BRIDGE JOINT  
ASPHALTIC PLUG



STRUCTURES  
DETAIL  
SD-516.10