

STATE OF VERMONT
AGENCY OF TRANSPORTATION



PROPOSED IMPROVEMENT
TOWNS OF ST. JOHNSBURY, KIRBY, CONCORD,
LUNENBURG & GUILDHALL
COUNTIES OF CALEDONIA & ESSEX
US ROUTE 2
PRINCIPAL ARTERIAL (NHS)

BEGINNING IN THE TOWN OF ST. JOHNSBURY AT MILE MARKER 4.684 AND EXTENDING EASTERLY ALONG US ROUTE 2 FOR A DISTANCE OF 136,725.60 FT (25.895 MILES) THROUGH THE TOWNS OF KIRBY, CONCORD & LUNENBURG TO MILE MARKER 1.149 IN THE TOWN OF GUILDHALL (VT/NH STATE LINE).

LENGTH OF ROADWAY = 136,725.60 FT = (25.895 MILES)
LENGTH OF PROJECT = 136,725.60 FT = (25.895 MILES)

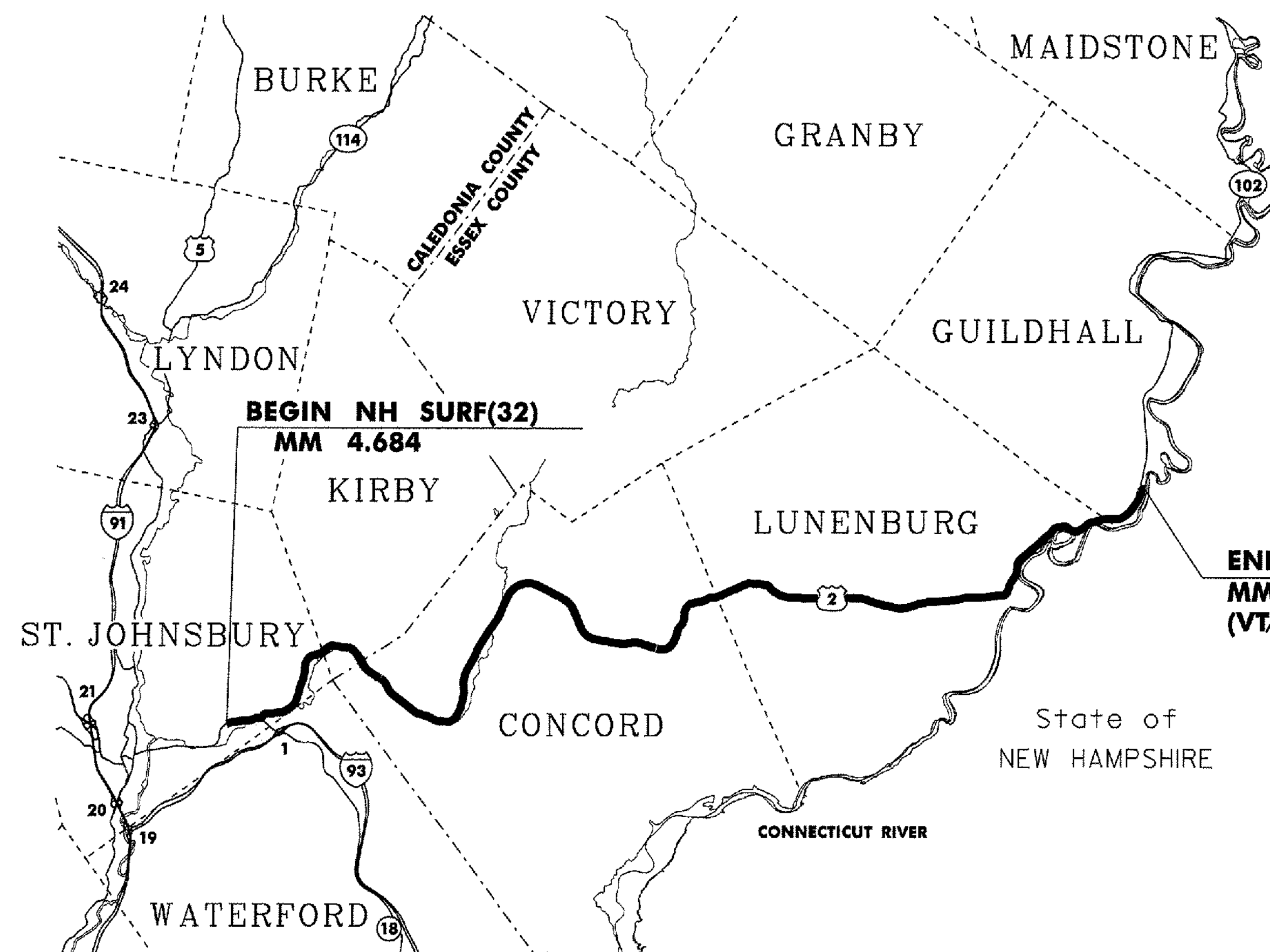
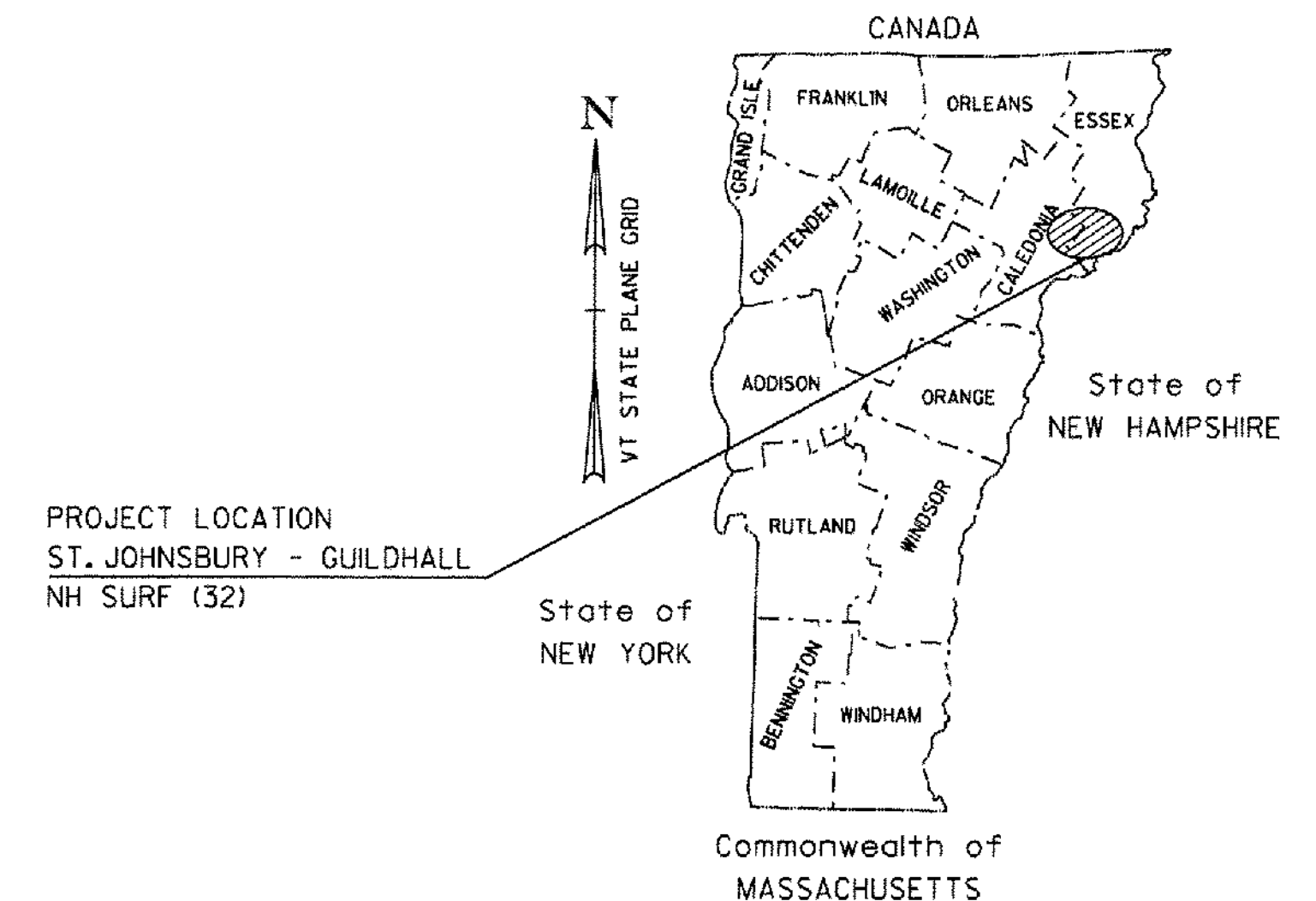
WORK TO BE PERFORMED UNDER THIS PROJECT INCLUDES SURFACE PREPARATION INVOLVING PATCHING, POT HOLE REPAIR, AND CRACK SEALING; SOME SPOT LEVELING; OVERLAYING WITH A THIN BITUMINOUS CONCRETE PAVEMENT WEARING COURSE, TRAFFIC MARKINGS AND OTHER HIGHWAY RELATED ITEMS.

INDEX OF SHEETS

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- BRIDGE JOINT ASPHALTIC PLUG-STRUCTURES DETAIL SD-516.10

STANDARDS

E-100	CONSTRUCTION APPROACH SIGNS	01/02/04
E-100A	SIDE ROAD CONSTRUCTION - APPROACH SIGNS	01/02/04
E-101	CONSTRUCTION SIGN DETAILS	05/30/03
E-102	CONSTRUCTION SIGN DETAILS	06/30/03
E-102A	CONSTRUCTION SIGN DETAILS	05/01/04
E-106	TRAFFIC CONTROL - MISCELLANEOUS DETAILS	03/01/04
E-107A	BREAKAWAY BARRICADE DETAILS	06/08/09
E-108	CONSTRUCTION ZONE LONGITUDINAL DROP OFFS	06/08/09
E-108A	CONSTRUCTION ZONE LONGITUDINAL DROP OFFS FOR PAVING	06/08/09
E-150	WARNING SIGN DETAILS	05/01/04
E-191	PAVEMENT MARKING DETAILS	02/01/99
E-193	PAVEMENT MARKING DETAILS	08/18/95



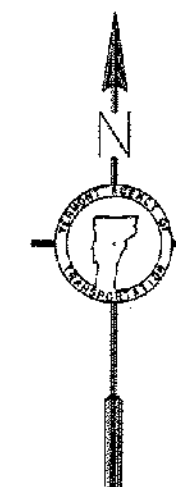
TRAFFIC DATA

SECTION	AADT		DHV		ESALS	
	2012	2022	2012	2022	2012~2022	2012~2032
BEGIN PROJECT TO VT 18	6100	6200	690	700	1,305,000	3,005,000
VT 18 TO SEVERANCE HILL RD	4300	4500	490	510	1,833,000	4,201,000
SEVERANCE HILL RD-SHADOW LAKE RD	4100	4300	520	550	1,847,000	4,128,000
SHADOW LAKE RD TO VICTORY RD	2900	3000	370	380	1,776,000	3,861,000
VICTORY RD TO OREGON RD	2500	2600	320	330	1,567,000	3,445,000
OREGON RD TO SO. LUNENBURG RD	2200	2300	280	290	1,582,000	3,612,000
SO. LUNENBURG RD TO END PROJECT	3400	3500	440	450	1,810,000	4,126,000

QUALITY ASSURANCE PROGRAM: LEVEL 1

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 2006, AS APPROVED BY THE FEDERAL HIGHWAY ADMINISTRATION ON JUNE 15, 2006 FOR USE ON THIS PROJECT, INCLUDING ALL SUBSEQUENT REVISIONS AND SUCH REVISED SPECIFICATIONS AND SPECIAL PROVISIONS AS ARE INCORPORATED IN THESE PLANS.

DIRECTOR OF PROGRAM DEVELOPMENT	
APPROVED	DATE 2/7/12
PROJECT MANAGER : MIKE FOWLER	
PROJECT NAME : ST. JOHNSBURY - GUILDHALL	
PROJECT NUMBER : NH SURF (32)	
SHEET 1 OF 22 SHEETS	

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 SHALL 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 I). AN ESTIMATED QUANTITY FOR THIS ITEM HAS BEEN INCLUDED TO COVER ALL COSTS ASSOCIATED WITH THIS WORK.

2. 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 RESIDENT ENGINEER.

3. 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.

4. A 50' COLD PLANED TRANSITION SHALL BE CONSTRUCTED AT THE PROJECT BEGIN, PROJECT END, AND AT ALL BRIDGE APPROACHES OR AS DIRECTED BY THE RESIDENT ENGINEER. ANY SAWCUTTING AT BUTT JOINTS SHALL BE PAID INCIDENTAL TO ITEM 210.10, COLD PLANING, BITUMINOUS PAVEMENT. THE CONTRACTOR SHALL USE CAUTION WHEN COLD PLANING 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.

5. IF IT IS DETERMINED BY THE RESIDENT 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 RESIDENT ENGINEER. AN ESTIMATED QUANTITY FOR ITEM 203.40 SHOULDER BERM REMOVAL HAS BEEN INCLUDED TO COVER THE COSTS ASSOCIATED WITH THIS WORK.

6. IT IS EXPECTED THAT SOME SPOT LEVELING WILL BE NECESSARY AS DIRECTED BY THE RESIDENT ENGINEER PRIOR TO THE PLACEMENT OF THE WEARING COURSE. AN ESTIMATED QUANTITY OF ITEM 900.680 SPECIAL PROVISION (BITUMINOUS CONCRETE PAVEMENT, SMALL QUANTITY) AND ITEM 900.683 SPECIAL PROVISION (EMULSIFIED ASPHALT)(RS-IH OR CRS-IH) HAS BEEN INCLUDED FOR THIS PURPOSE. AT A MINIMUM LEVELING WILL BE NEEDED IN THE FOLLOWING LOCATIONS IN BOTH LANES: ST. JOHNSBURY MM 7.400 - MM 8.000, CONCORD MM 9.558 - MM 9.655, LUNENBURG MM 1.600 - MM 1.800, LUNENBURG MM 2.200 - MM 2.400, AND LUNENBURG MM 3.400 - MM 4.900.

7. THERE ARE WEIGH IN MOTION SENSORS IN THE PAVEMENT AT MM 4.800 IN BOTH LANES IN THE TOWN OF CONCORD THAT MAY BE IMPACTED BY CONSTRUCTION ACTIVITIES. INSTALLATION OF NEW SENSORS WILL BE PERFORMED BY OTHERS FOLLOWING COMPLETION OF THE PROJECT. THE RESIDENT ENGINEER IS TO CONTACT DAVE GOSSELIN @ 802-828-2694 PRIOR TO PLACEMENT OF THE SURFACE TREATMENT.

8. BRIDGES WITHIN THIS TYPICAL SECTION ARE:

BRIDGE NUMBER 106, MM 5.712 (ST. JOHNSBURY) 5' X 5' CONCRETE BOX (OVERLAY WITH THIN BITUMINOUS SURFACE TREATMENT)
BRIDGE NUMBER 107, MM 6.538 (ST. JOHNSBURY) WF BEAM SSB (COLD PLANE 1" THEN PAVE WITH THIN BITUMINOUS SURFACE TREATMENT)
BRIDGE NUMBER 108, MM 7.199 (ST. JOHNSBURY) T BEAM SLAB CC (COLD PLANE 1" THEN PAVE WITH THIN BITUMINOUS SURFACE TREATMENT)
BRIDGE NUMBER 109, MM 8.486 (ST. JOHNSBURY) CONCRETE SLAB CC (OVERLAY WITH THIN BITUMINOUS SURFACE TREATMENT)
BRIDGE NUMBER 110, MM 0.421 (KIRBY) 4' X 4' CONCRETE BOX (OVERLAY WITH THIN BITUMINOUS SURFACE TREATMENT)
BRIDGE NUMBER 111, MM 0.678 (KIRBY) 5' X 5' CONCRETE BOX (OVERLAY WITH THIN BITUMINOUS SURFACE TREATMENT)
BRIDGE NUMBER 112, MM 0.902 (KIRBY) 4' X 4' CONCRETE BOX (OVERLAY WITH THIN BITUMINOUS SURFACE TREATMENT)
BRIDGE NUMBER 113, MM 0.564 (CONCORD) 8' X 6' CONCRETE BOX (OVERLAY WITH THIN BITUMINOUS SURFACE TREATMENT)
BRIDGE NUMBER 116, MM 3.316 (CONCORD) CONCRETE SLAB W (OVERLAY WITH THIN BITUMINOUS SURFACE TREATMENT)
BRIDGE NUMBER 117, MM 4.271 (CONCORD) COMP. WF BEAM (COLD PLANE 1" THEN PAVE WITH THIN BITUMINOUS SURFACE TREATMENT)
BRIDGE NUMBER 119, MM 9.541 (CONCORD) 4' X 4' CONCRETE BOX (OVERLAY WITH THIN BITUMINOUS SURFACE TREATMENT)
BRIDGE NUMBER 120, MM 9.696 (CONCORD) CONCRETE SLAB CC (OVERLAY WITH THIN BITUMINOUS SURFACE TREATMENT)
BRIDGE NUMBER 121, MM 0.975 (LUNENBURG) 4' X 5' STONE BOX W (OVERLAY WITH THIN BITUMINOUS SURFACE TREATMENT)
BRIDGE NUMBER 122, MM 3.705 (LUNENBURG) CONCRETE SLAB CC (COLD PLANE 1" THEN PAVE WITH THIN BITUMINOUS SURFACE TREATMENT)
BRIDGE NUMBER 123, MM 4.344 (LUNENBURG) STONE ARCH (COLD PLANE 1" THEN PAVE WITH THIN BITUMINOUS SURFACE TREATMENT)
BRIDGE NUMBER 125, MM 6.974 (LUNENBURG) 120" CGMPP CS (OVERLAY WITH THIN BITUMINOUS SURFACE TREATMENT)
BRIDGE NUMBER 126, MM 8.130 (LUNENBURG) 4' X 4' CONCRETE BOX (OVERLAY WITH THIN BITUMINOUS SURFACE TREATMENT)

**NOTES COMMON
TO BOTH
ALTERNATES**

PROJECT NAME: ST. JOHNSBURY - GUILDHALL

PROJECT NUMBER: NH SURF (32)

FILE NAME: I:\b032\p11b032.dgn

PROJECT LEADER: FOWLER

DESIGNED BY: LOCKE

IPARM FILE NAME: p11b032_02.i

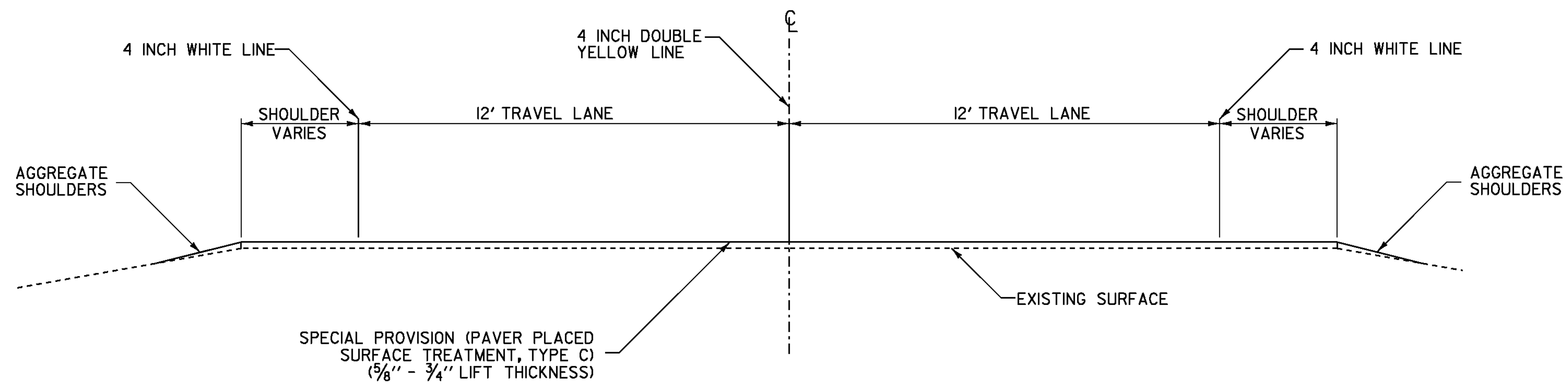
PLOT DATE: 03-FEB-2012

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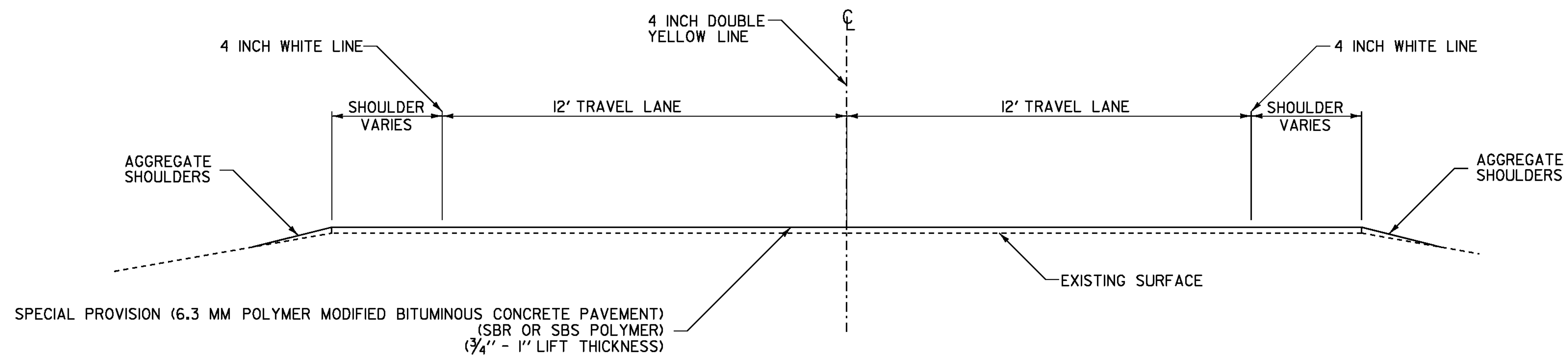
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SHEET 2 OF 22

NOT TO SCALE



TYPICAL SECTION ALTERNATE A
MM 4.684 (ST. JOHNSBURY) – MM 1.149 (GUILDHALL)



TYPICAL SECTION ALTERNATE B
MM 4.684 (ST. JOHNSBURY) – MM 1.149 (GUILDHALL)

NOTES:

1. PRIOR TO THE PLACEMENT OF THE POLYMER MODIFIED SURFACE TREATMENT, 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 RESIDENT 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. PG BINDER SHALL BE 58-28.

NOT TO SCALE

**TYPICAL
SECTIONS**

PROJECT NAME: ST. JOHNSBURY – GUILDHALL

PROJECT NUMBER: NH SURF (32)

FILE NAME: IIB032\pIIB032.dgn

PROJECT LEADER: FOWLER

DESIGNED BY: LOCKE

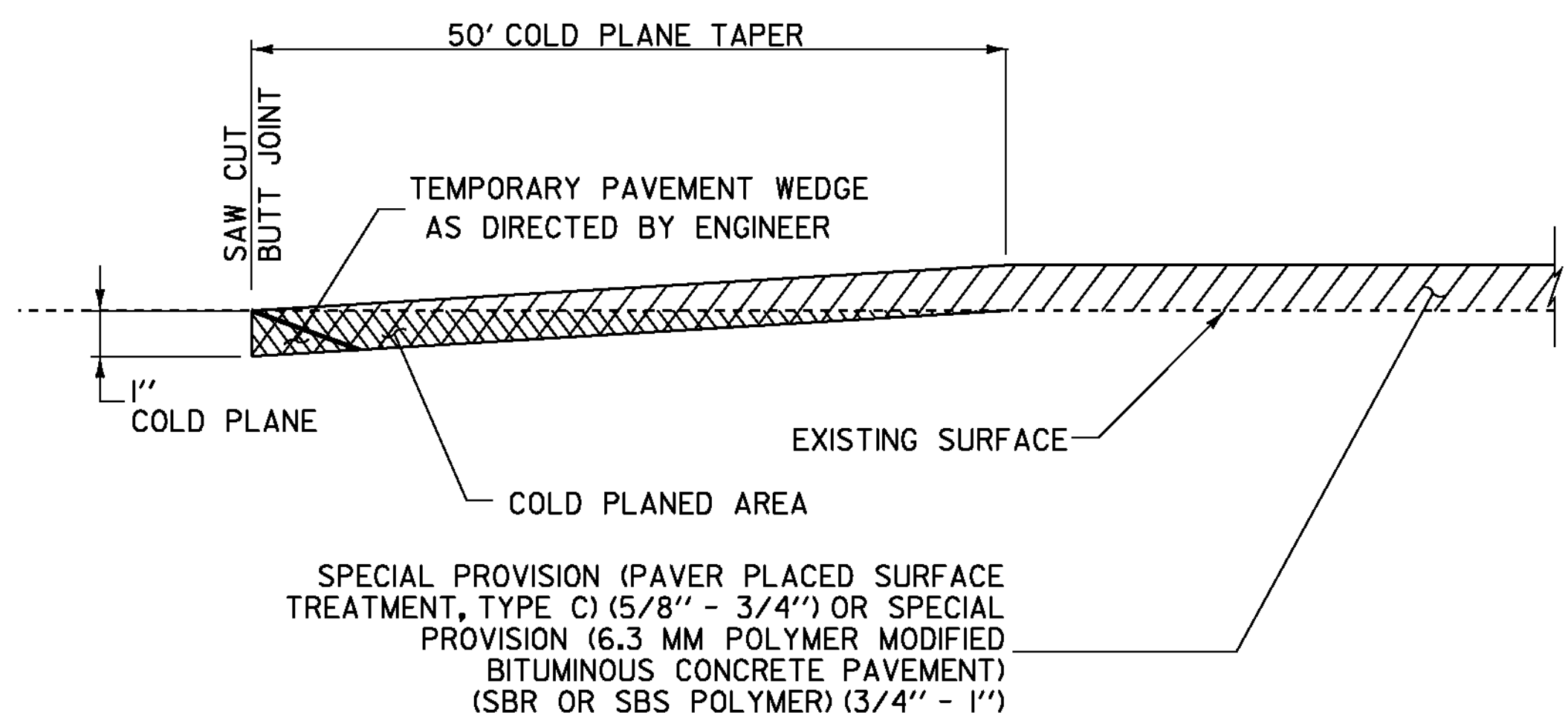
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PLOT DATE: 03-FEB-2012

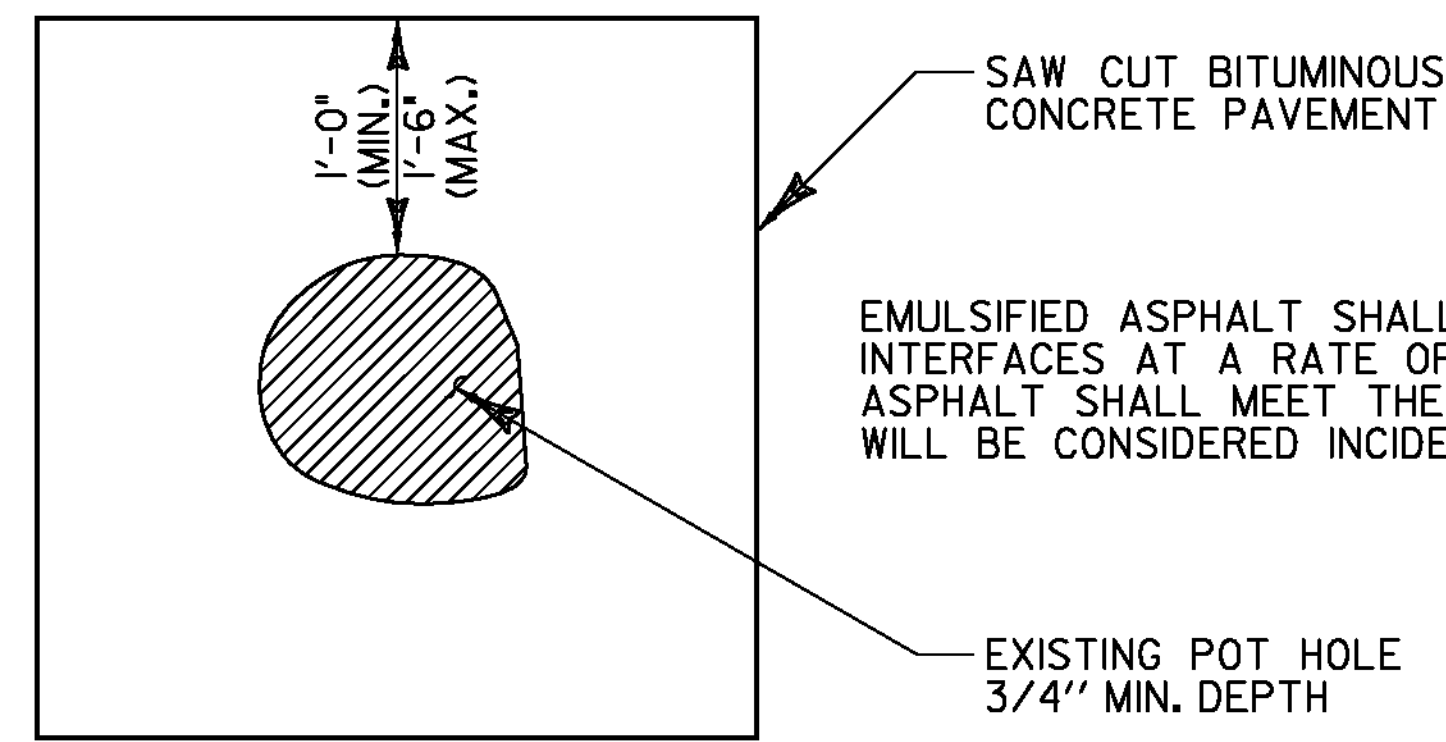
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CHECKED BY: PAVT MGMT

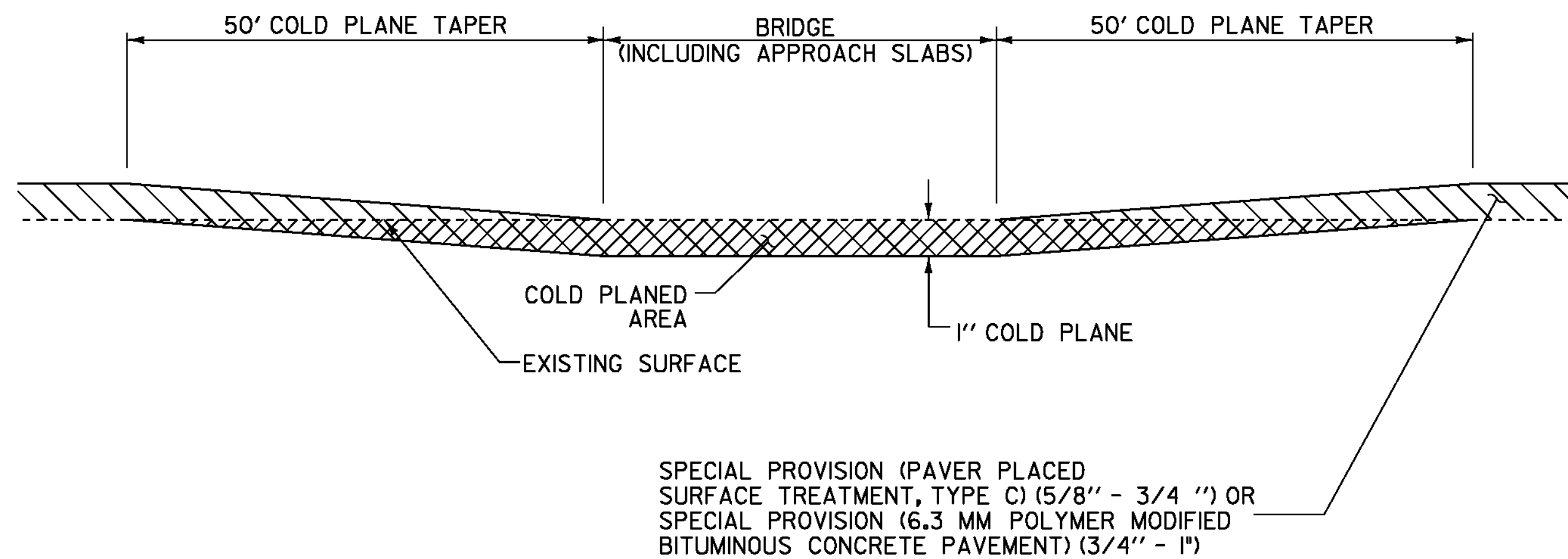
SHEET 3 OF 22



COLD PLANE DETAIL AT BEGINEND PROJECT AND AT VT 18

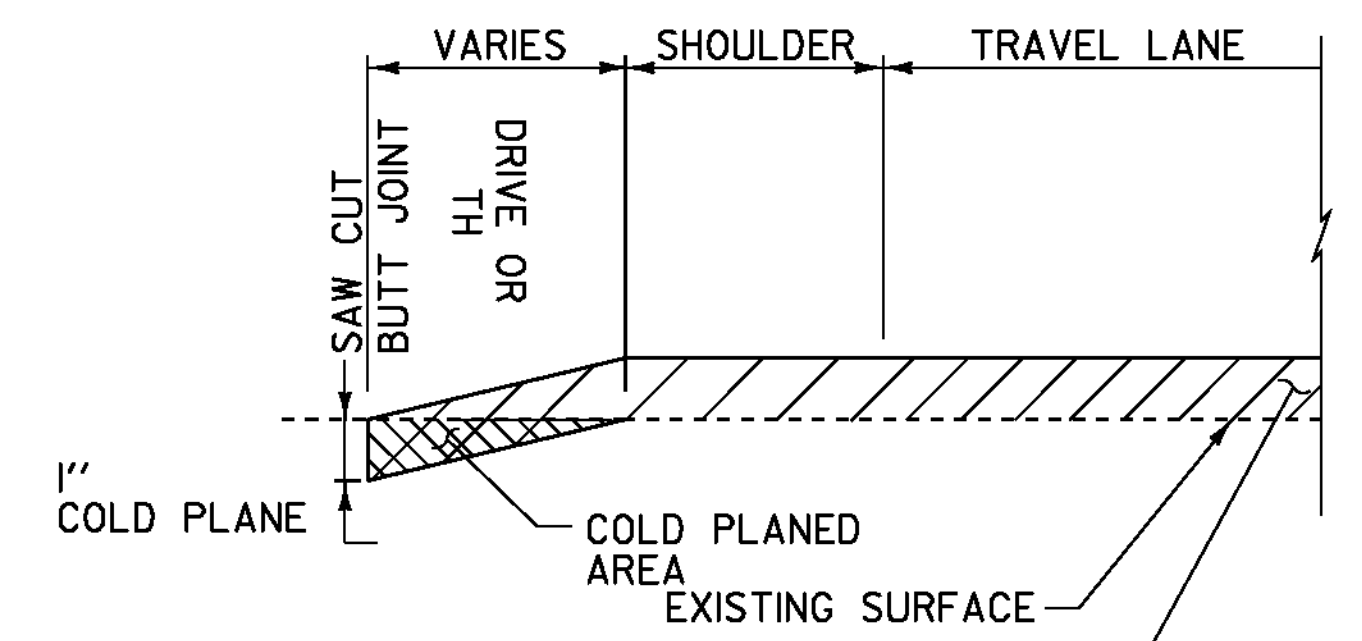
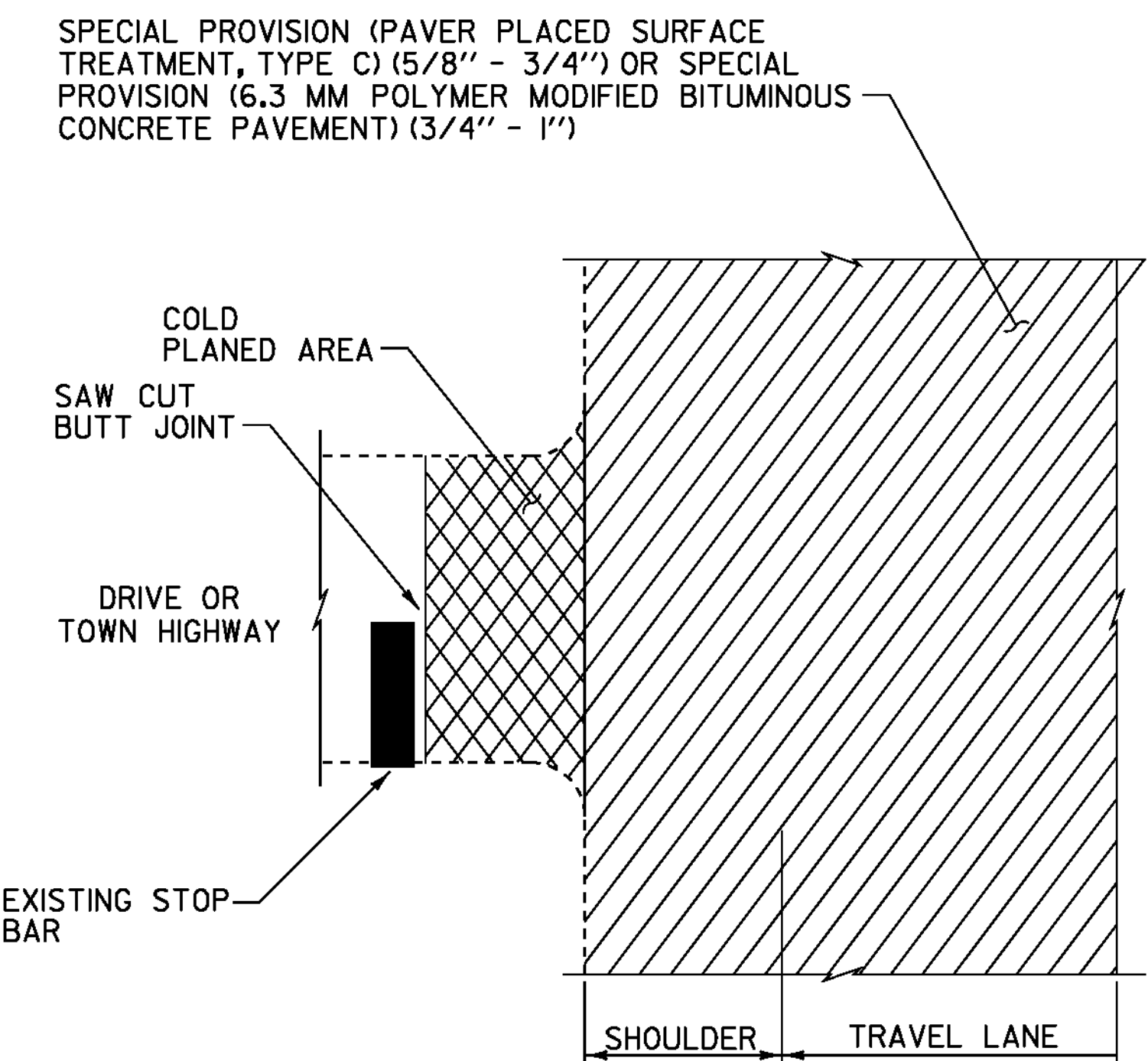


TYPICAL - POT HOLE REPAIR
NOT TO SCALE



BRIDGE COLD PLANE DETAIL

- NOTES:
1. REFER TO ASPHALTIC PLUG JOINT DETAIL SHEET. 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 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 RESIDENT 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 AND IS THE FAULT OF THE CONTRACTOR. IF THE CONTRACTOR IS DETERMINED TO BE AT FAULT, THE RECOMMENDED REPAIRS SHALL BE COMPLETED AT NO COST TO THE STATE.



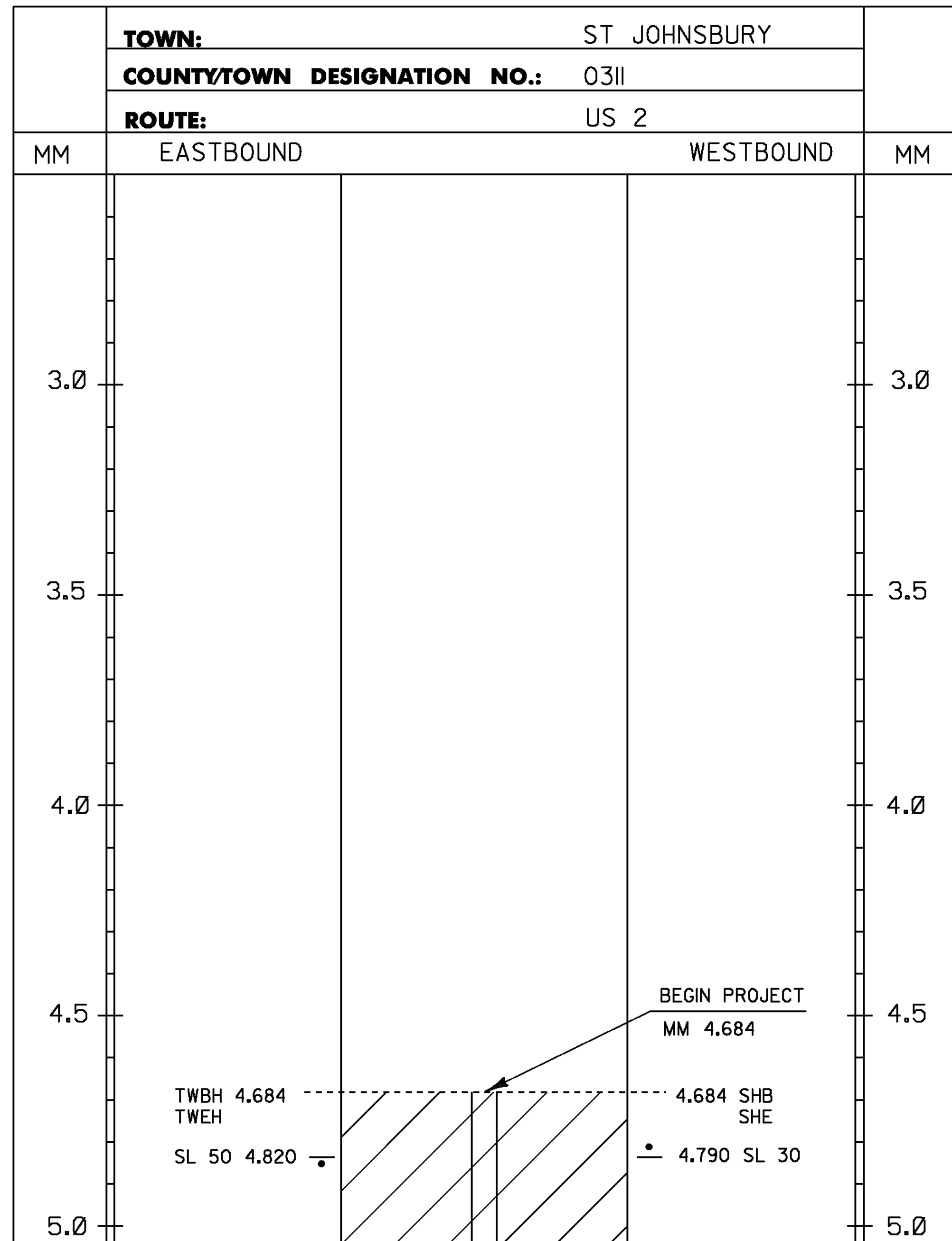
SPECIAL PROVISION (PAVER PLACED SURFACE TREATMENT, TYPE C) (5/8" - 3/4") OR SPECIAL PROVISION (6.3 MM POLYMER MODIFIED BITUMINOUS CONCRETE PAVEMENT) (SBR OR SBS POLYMER) (3/4" - 1")

COLD PLANE DETAILS AT DRIVES & TOWN HIGHWAYS

NOT TO SCALE

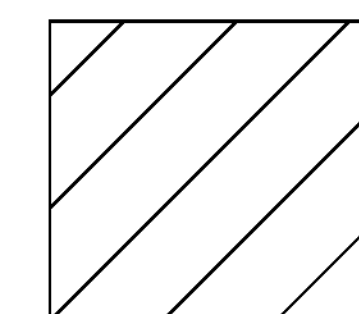
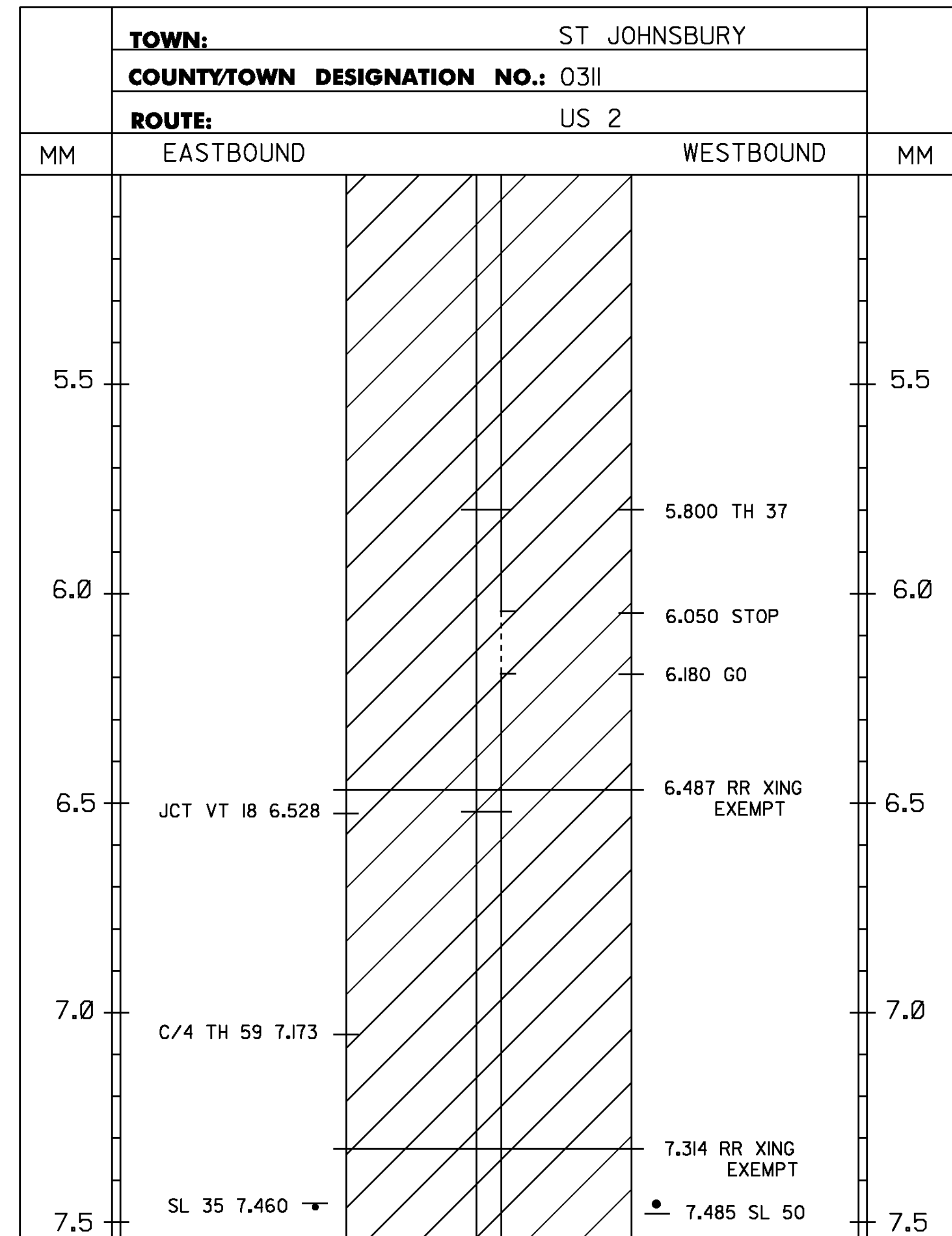
PROJECT COLD PLANE DETAILS

PROJECT NAME:	ST. JOHNSBURY - GUILDHALL
PROJECT NUMBER:	NH SURF (32)
FILE NAME:	11b032\p11b032.dgn
PROJECT LEADER:	FOWLER
DESIGNED BY:	LOCKE
IPARM FILE NAME:	p11b032_04.1
PLOT DATE:	03-FEB-2012
DRAWN BY:	LOCKE
CHECKED BY:	PAVT MGMT
SHEET	4 OF 22



4 INCH WHITE LINE
MM 4.684 - MM 7.500 LT & RT
(WITH BREAKS OR RADIAT TOWN HIGHWAYS)

4 INCH YELLOW LINE
MM 4.684 - MM 6.050 SOLID LT & RT
MM 6.050 - MM 6.180 DASHED LT, SOLID RT
MM 6.180 - MM 7.500 SOLID LT & RT
(WITH CENTERLINE 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
C/4 TH- CLASS 4 TOWN HIGHWAY
T/L-TOWN LINE

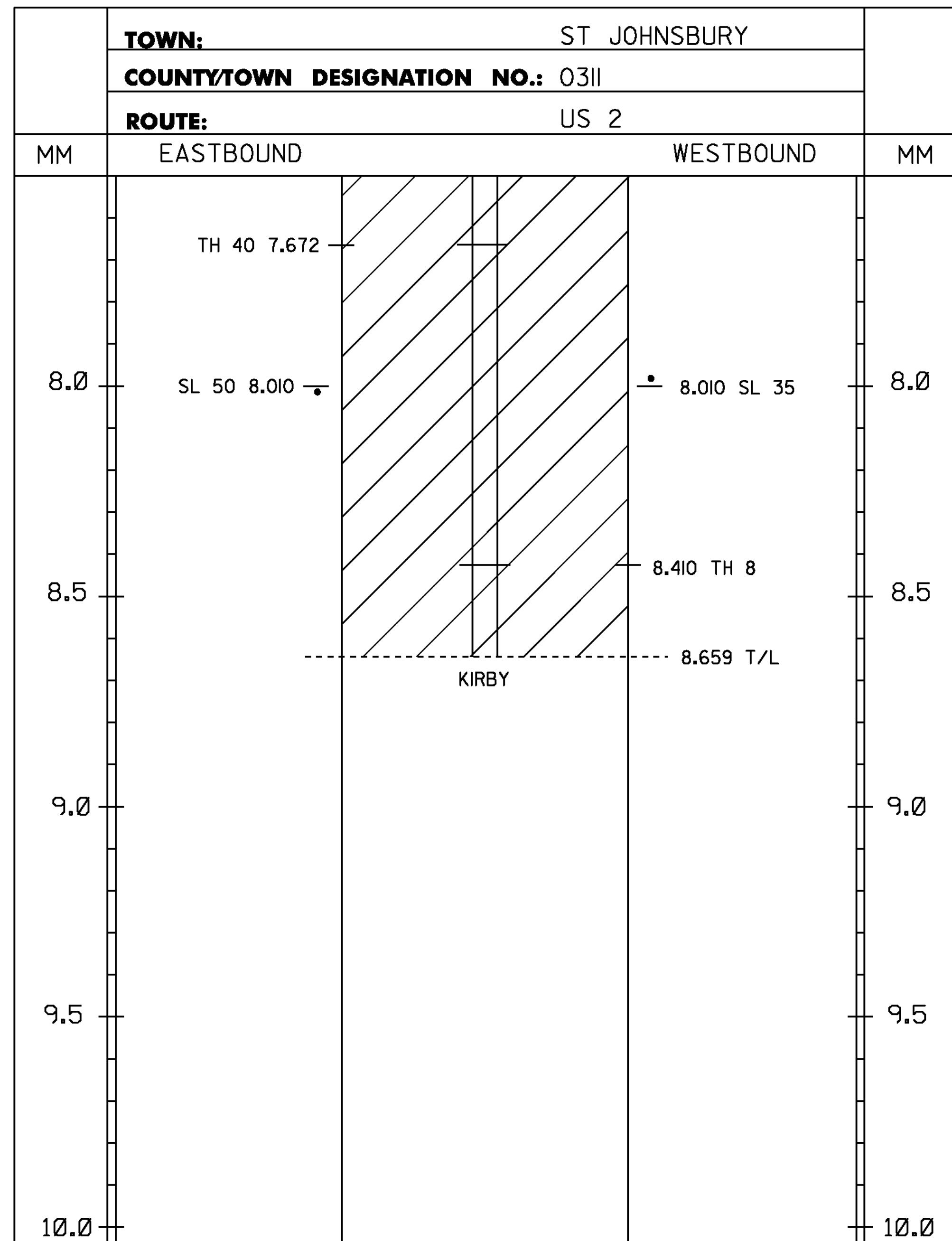
NOTES:
1. THIS SHEET TO BE USED FOR THE LAYOUT OF ALL CENTERLINE PAVEMENT MARKINGS.
THE RESIDENT ENGINEER MAY CONTACT KEITH SWEET, PAVEMENT MARKING SUPERVISOR
AT (802) 828-5573 FOR ASSISTANCE LAYING OUT THE CENTERLINE DURING CONSTRUCTION.

2. TWO (2) APPLICATIONS OF FINAL PAVEMENT MARKINGS WILL BE REQUIRED. SEE SPECIAL PROVISIONS
FOR COMPLETION DATE REQUIREMENTS.

NOT TO SCALE

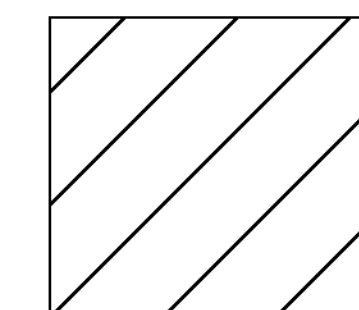
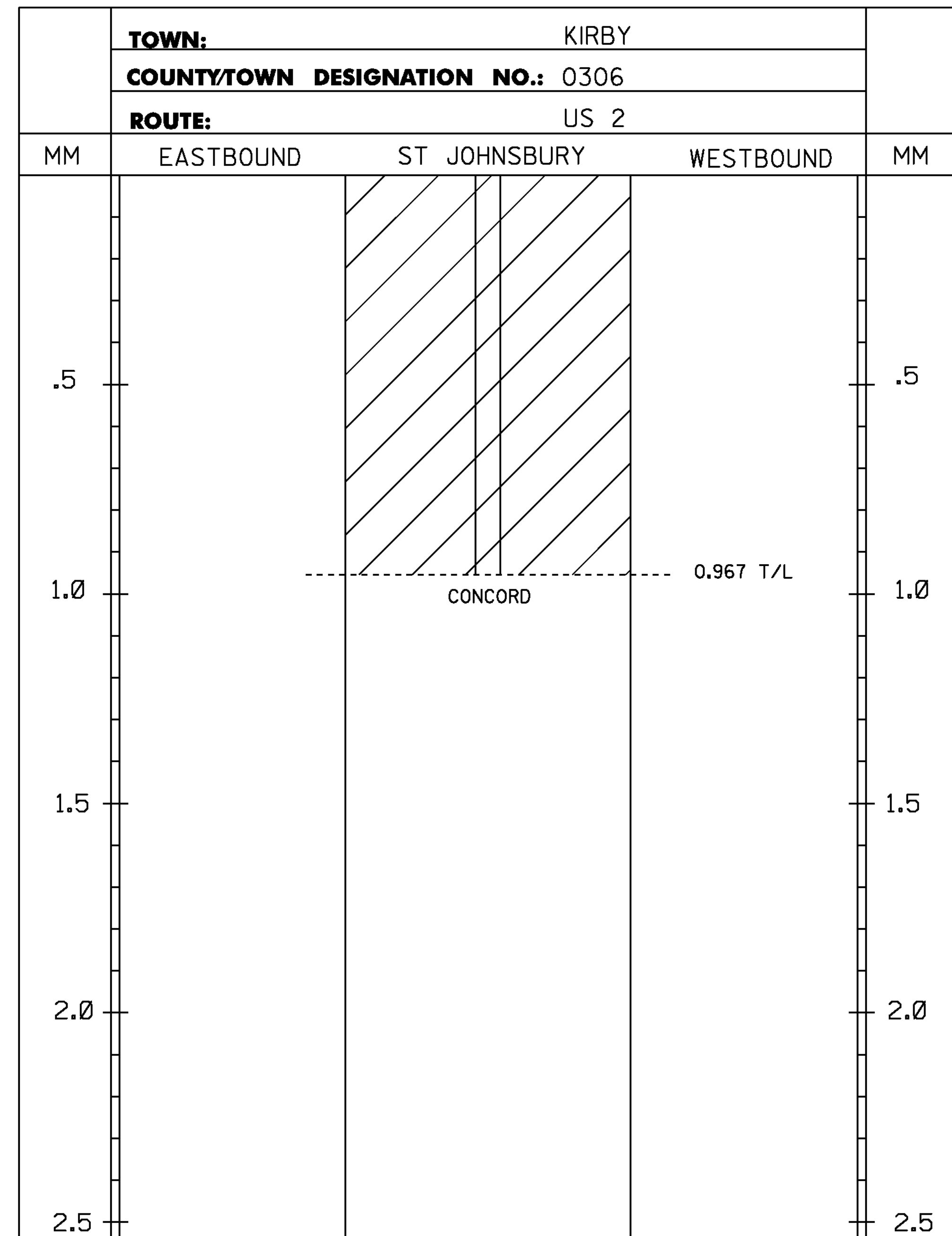
**PROJECT
LAYOUT
SHEET #1**

PROJECT NAME:	ST. JOHNSBURY - GUILDHALL
PROJECT NUMBER:	NH SURF (32)
FILE NAME:	11b032\p11b032.dgn
PROJECT LEADER:	FOWLER
DESIGNED BY:	LOCKE
IPARM FILE NAME:	p11b032_07.1
PLOT DATE:	03-FEB-2012
DRAWN BY:	LOCKE
CHECKED BY:	PAVT MGMT
	SHEET 7 OF 22



4 INCH WHITE LINE
MM 7.500 - MM 8.641 LT & RT
MM 0.000 - MM 0.965 LT & RT
(WITH BREAKS OR RADII AT TOWN HIGHWAYS)

4 INCH YELLOW LINE
MM 7.500 - MM 8.641 SOLID LT & RT
MM 0.000 - MM 0.965 SOLID LT & RT
(WITH CENTERLINE 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
T/L-TOWN LINE

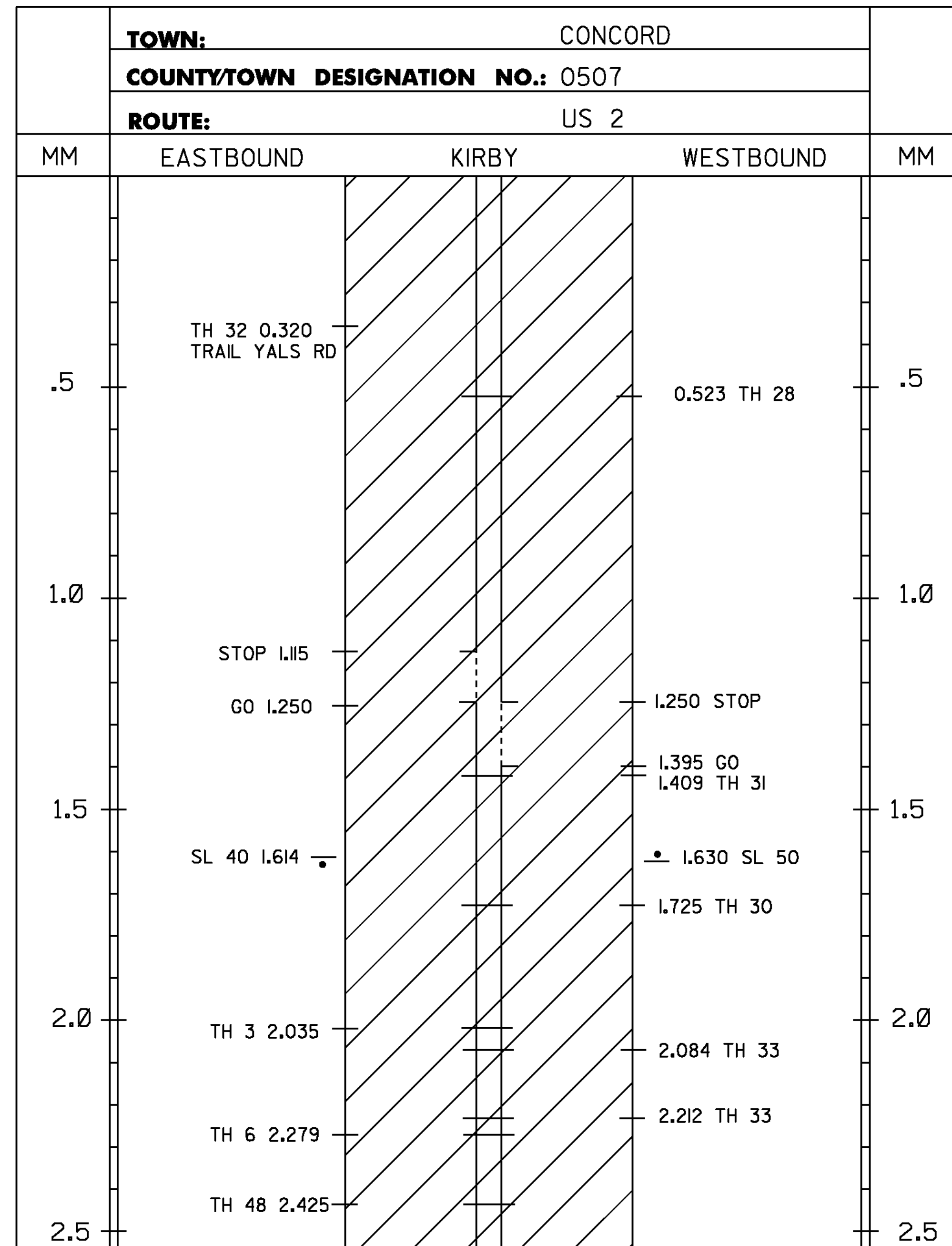
NOTES:
1. THIS SHEET TO BE USED FOR THE LAYOUT OF ALL CENTERLINE PAVEMENT MARKINGS.
THE RESIDENT ENGINEER MAY CONTACT KEITH SWEET, PAVEMENT MARKING SUPERVISOR
AT (802) 828-5573 FOR ASSISTANCE LAYING OUT THE CENTERLINE DURING CONSTRUCTION.

2. TWO (2) APPLICATIONS OF FINAL PAVEMENT MARKINGS WILL BE REQUIRED. SEE SPECIAL PROVISIONS
FOR COMPLETION DATE REQUIREMENTS.

NOT TO SCALE

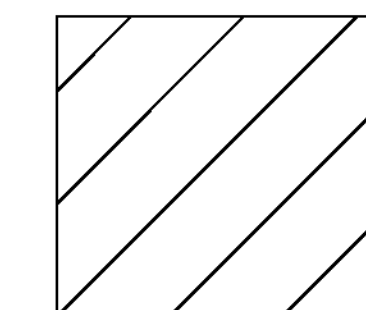
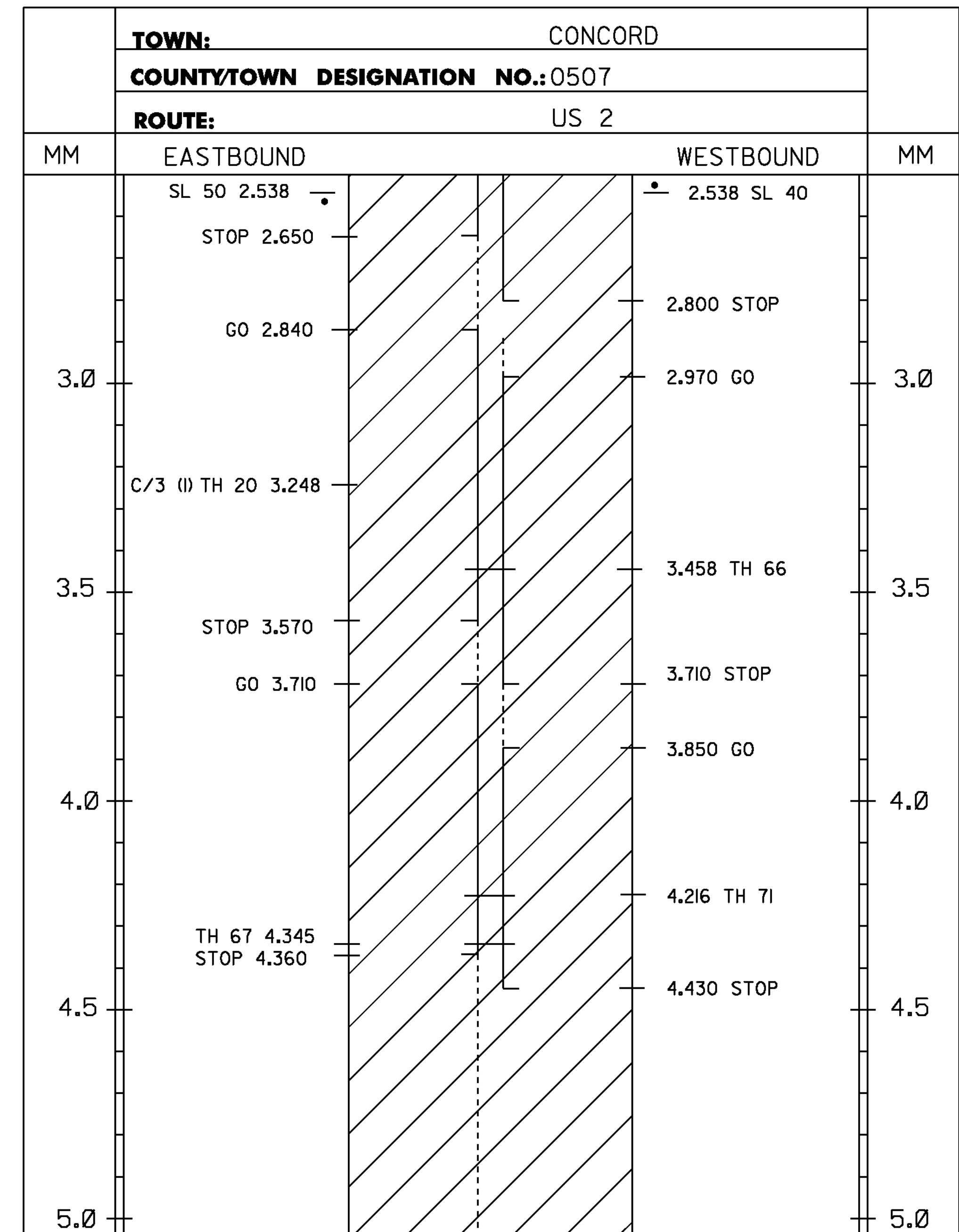
**PROJECT
LAYOUT
SHEET #2**

PROJECT NAME:	ST. JOHNSBURY - GUILDHALL
PROJECT NUMBER:	NH SURF (32)
FILE NAME:	11b032\p11b032.dgn
PROJECT LEADER:	FOWLER
DESIGNED BY:	LOCKE
IPARM FILE NAME:	p11b032_08.1
PLOT DATE:	03-FEB-2012
DRAWN BY:	LOCKE
CHECKED BY:	PAVT MGMT
SHEET	8 OF 22



4 INCH WHITE LINE
MM 0.000 - MM 5.000 LT & RT
(WITH BREAKS OR RADIAT TOWN HIGHWAYS)

4 INCH YELLOW LINE
MM 0.000 - MM 1.115 SOLID LT & RT
MM 1.115 - MM 1.250 SOLID LT, DASHED RT
MM 1.250 - MM 1.395 DASHED LT, SOLID RT
MM 1.395 - MM 2.650 SOLID LT & RT
MM 2.650 - MM 2.800 SOLID LT, DASHED RT
MM 2.800 - MM 2.840 DASHED RT
MM 2.840 - MM 2.970 DASHED LT, SOLID RT
MM 2.970 - MM 3.570 SOLID LT & RT
MM 3.570 - MM 3.710 SOLID LT, DASHED RT
MM 3.710 - MM 3.850 DASHED LT, SOLID RT
MM 3.850 - MM 4.360 SOLID LT & RT
MM 4.360 - MM 4.430 SOLID LT, DASHED RT
MM 4.430 - MM 5.000 DASHED RT
(WITH CENTERLINE 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
C/3 TH- CLASS 3 TOWN HIGHWAY
T/L-TOWN LINE

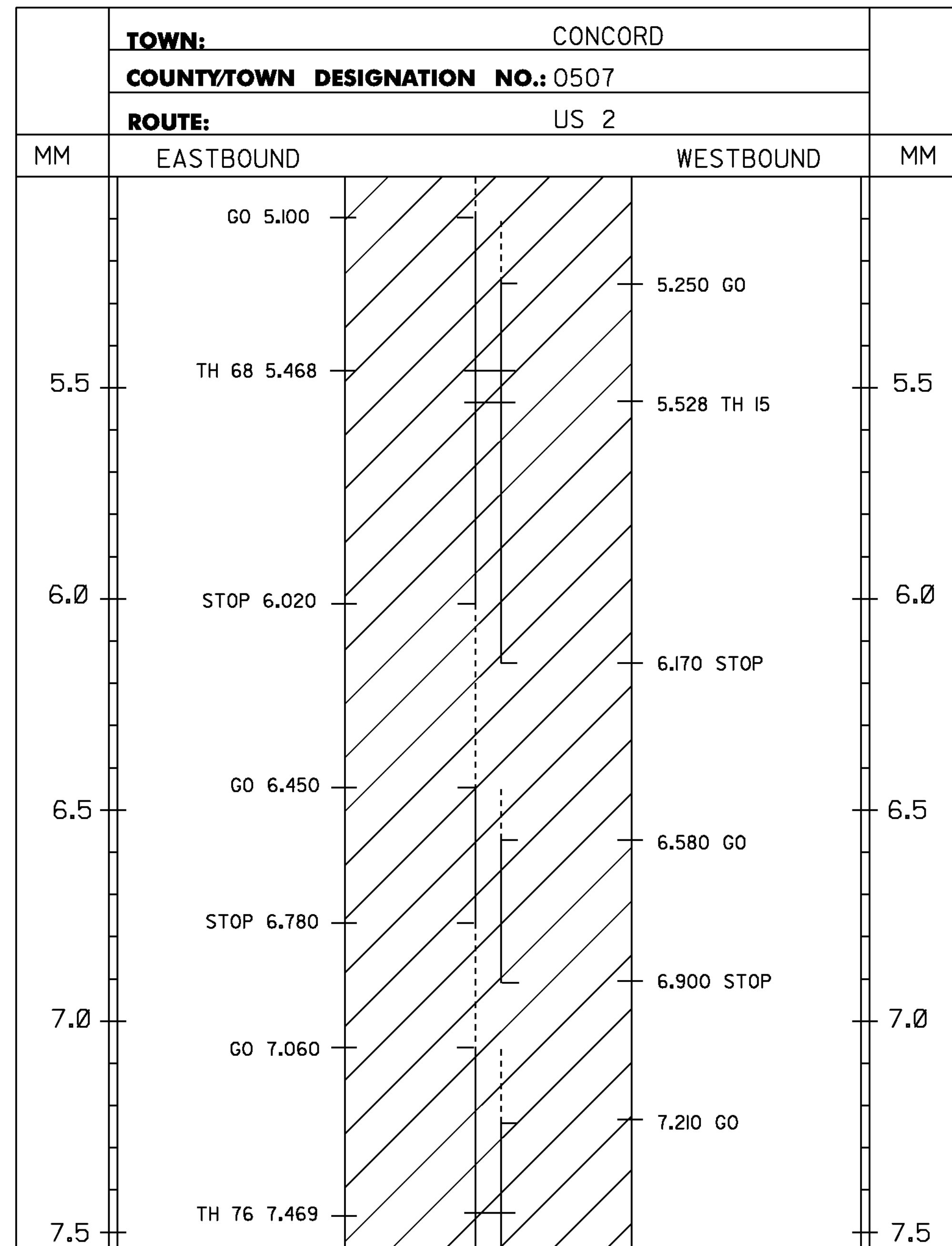
NOTES:
1. THIS SHEET TO BE USED FOR THE LAYOUT OF ALL CENTERLINE PAVEMENT MARKINGS.
THE RESIDENT ENGINEER MAY CONTACT KEITH SWEET, PAVEMENT MARKING SUPERVISOR
AT (802) 828-5573 FOR ASSISTANCE LAYING OUT THE CENTERLINE DURING CONSTRUCTION.

2. TWO (2) APPLICATIONS OF FINAL PAVEMENT MARKINGS WILL BE REQUIRED. SEE SPECIAL PROVISIONS
FOR COMPLETION DATE REQUIREMENTS.

NOT TO SCALE

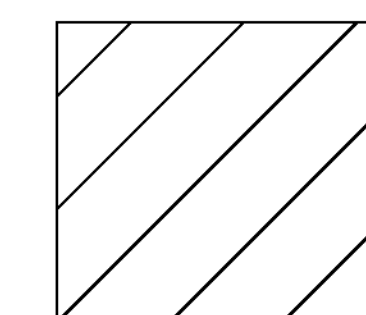
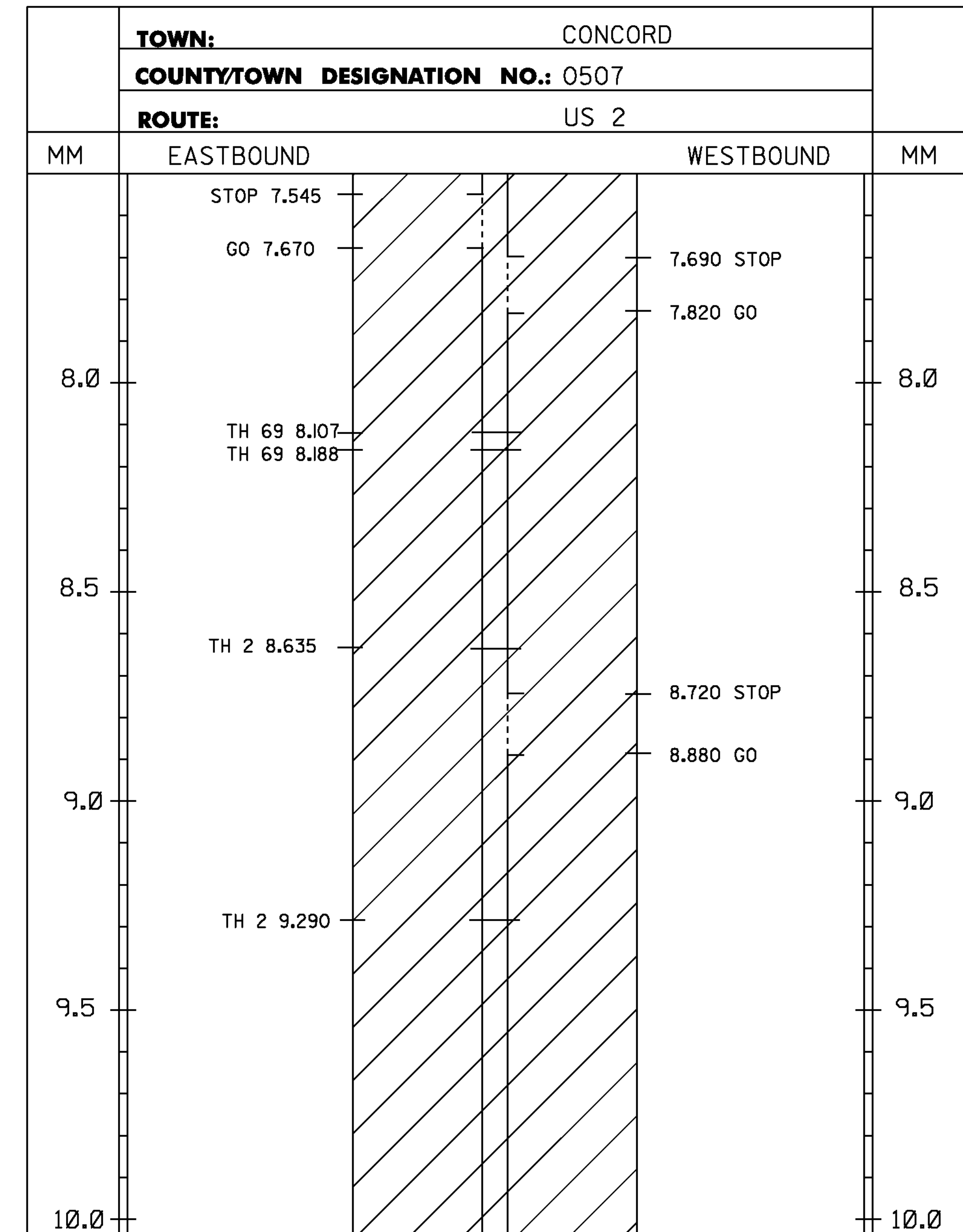
**PROJECT
LAYOUT
SHEET #3**

PROJECT NAME:	ST. JOHNSBURY - GUILDHALL
PROJECT NUMBER:	NH SURF (32)
FILE NAME:	11b032\p11b032.dgn
PROJECT LEADER:	FOWLER
DESIGNED BY:	LOCKE
IPARM FILE NAME:	p11b032_09.1
PLOT DATE:	03-FEB-2012
DRAWN BY:	LOCKE
CHECKED BY:	PAVT MGMT
	SHEET 9 OF 22



4 INCH WHITE LINE
MM 5.000 - MM 10.000 LT & RT
(WITH BREAKS OR RADIAT TOWN HIGHWAYS)

4 INCH YELLOW LINE
MM 5.000 - MM 5.100 DASHED RT
MM 5.100 - MM 5.250 DASHED LT, SOLID RT
MM 5.250 - MM 6.020 SOLID LT & RT
MM 6.020 - MM 6.170 SOLID LT, DASHED RT
MM 6.170 - MM 6.450 DASHED RT
MM 6.450 - MM 6.580 DASHED LT, SOLID RT
MM 6.580 - MM 6.780 SOLID LT & RT
MM 6.780 - MM 6.900 SOLID LT, DASHED RT
MM 6.900 - MM 7.060 DASHED RT
MM 7.060 - MM 7.210 DASHED LT, SOLID RT
MM 7.210 - MM 7.545 SOLID LT & RT
MM 7.545 - MM 7.670 SOLID LT, DASHED RT
MM 7.670 - MM 7.690 SOLID LT & RT
MM 7.690 - MM 7.820 DASHED LT, SOLID RT
MM 7.820 - MM 8.720 SOLID LT & RT
MM 8.720 - MM 8.880 DASHED LT, SOLID RT
MM 8.880 - MM 10.000 SOLID LT & RT
(WITH CENTERLINE BREAKS AT TOWN HIGHWAYS)



PROJECT AREA

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

2. TWO (2) APPLICATIONS OF FINAL PAVEMENT MARKINGS WILL BE REQUIRED. SEE SPECIAL PROVISIONS
FOR COMPLETION DATE REQUIREMENTS.

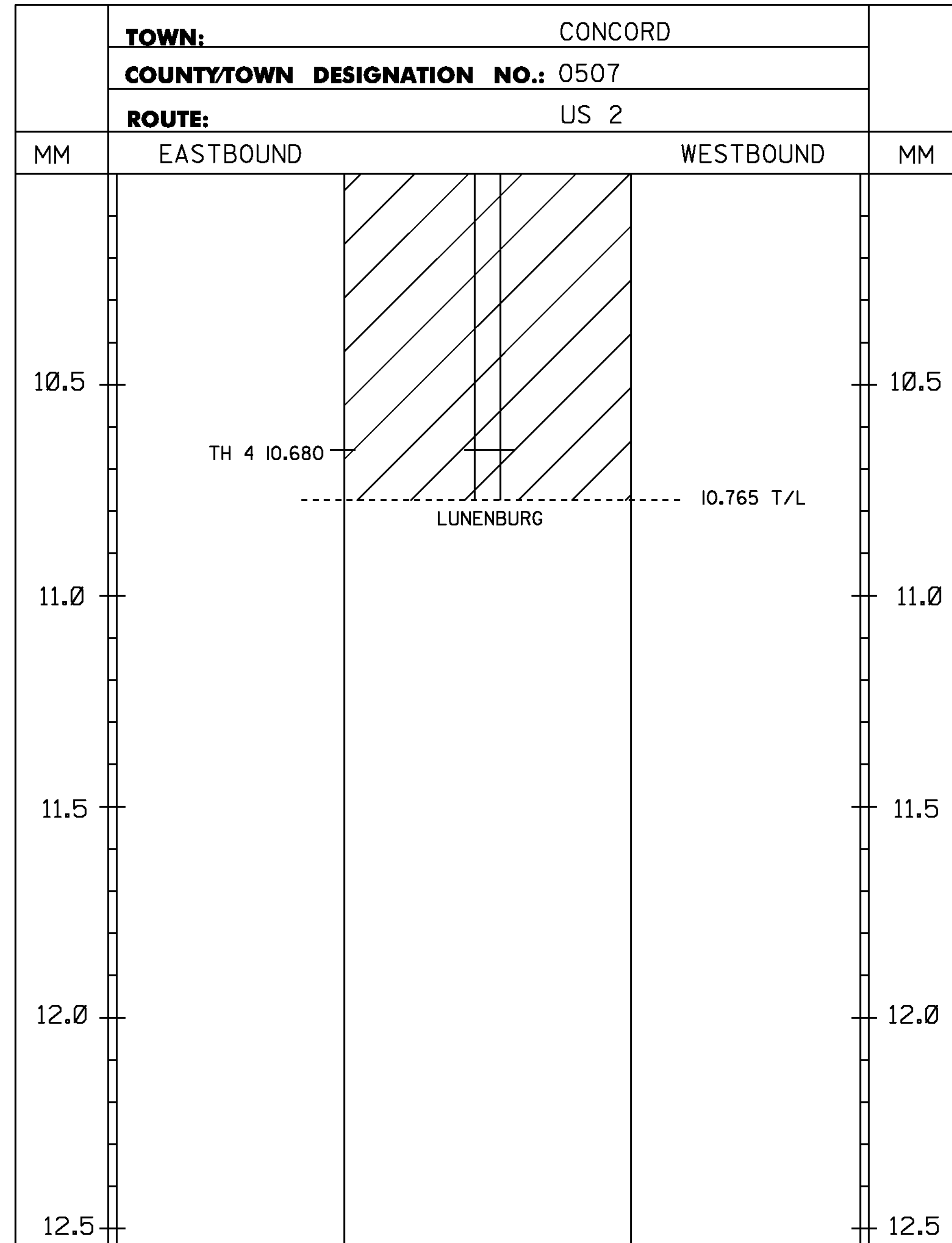
LEGEND

TWBH-THROUGHWAY BEGINS HERE
TWEH-THROUGHWAY ENDS HERE
SHB-STATE HIGHWAY BEGINS
SHE-STATE HIGHWAY ENDS
SL-SPEED LIMIT
T/L-TOWN LINE

NOT TO SCALE

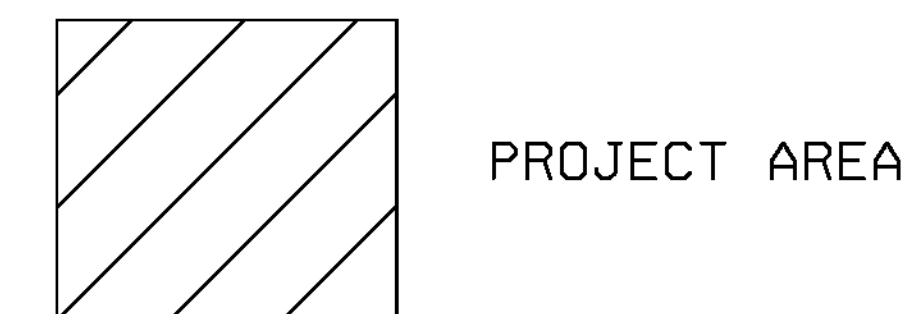
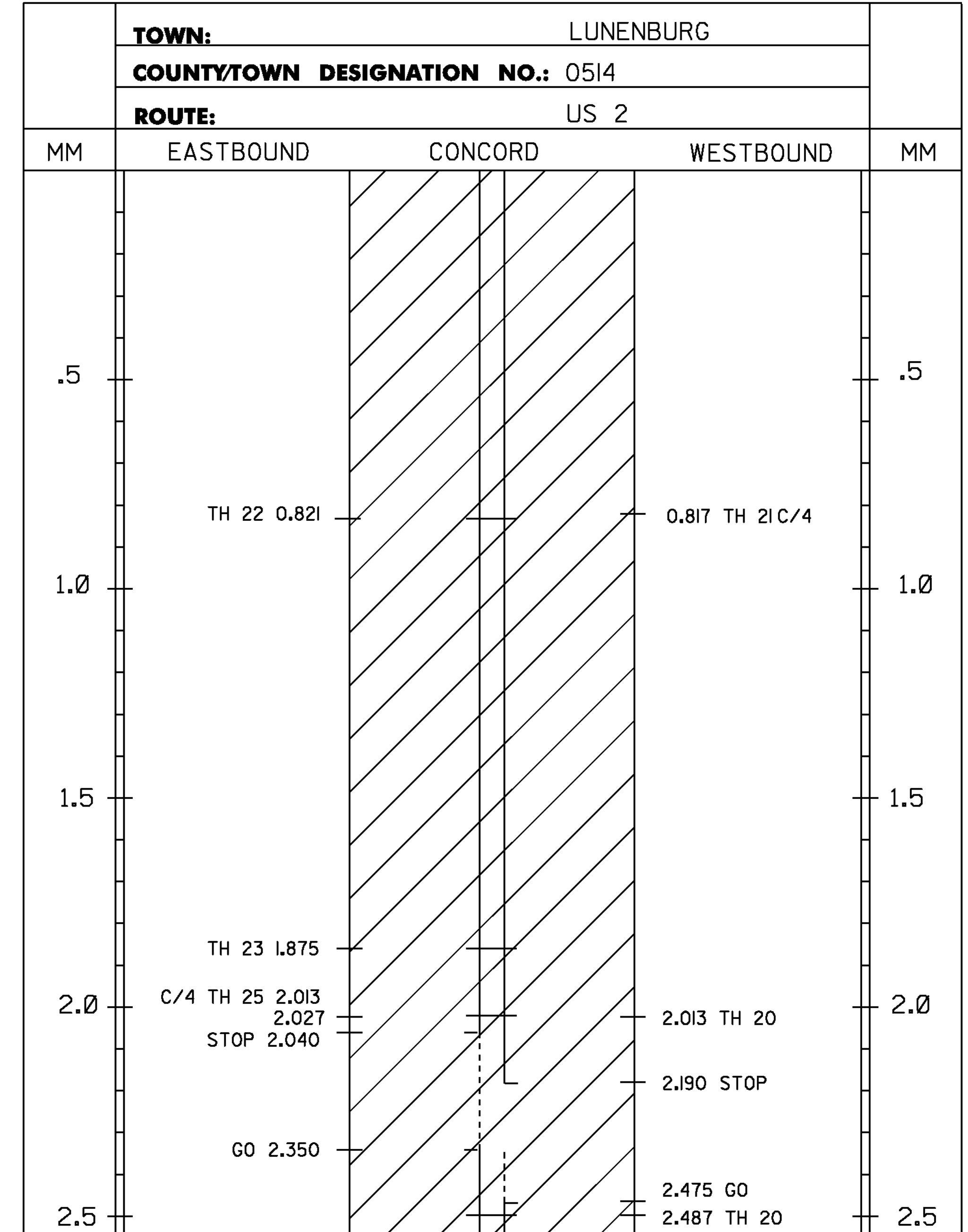
PROJECT
LAYOUT
SHEET #4

PROJECT NAME:	ST. JOHNSBURY - GUILDHALL
PROJECT NUMBER:	NH SURF (32)
FILE NAME:	I0b118\pl0b118.dgn
PROJECT LEADER:	FOWLER
DESIGNED BY:	LOCKE
IPARM FILE NAME:	plb032_10.1
PLOT DATE:	03-FEB-2012
DRAWN BY:	LOCKE
CHECKED BY:	PAVT MGMT
	SHEET 10 OF 22



4 INCH WHITE LINE
MM 10.000 - MM 10.784 LT & RT
MM 0.000 - MM 2.500 LT & RT
(WITH BREAKS OR RADI AT TOWN HIGHWAYS)

4 INCH YELLOW LINE
MM 10.000 - MM 10.784 SOLID LT & RT
MM 0.000 - MM 2.040 SOLID LT & RT
MM 2.040 - MM 2.190 SOLID LT, DASHED RT
MM 2.190 - MM 2.350 DASHED RT
MM 2.350 - MM 2.475 DASHED LT, SOLID RT
MM 2.475 - MM 2.500 SOLID LT & RT
(WITH CENTERLINE BREAKS AT TOWN HIGHWAYS)



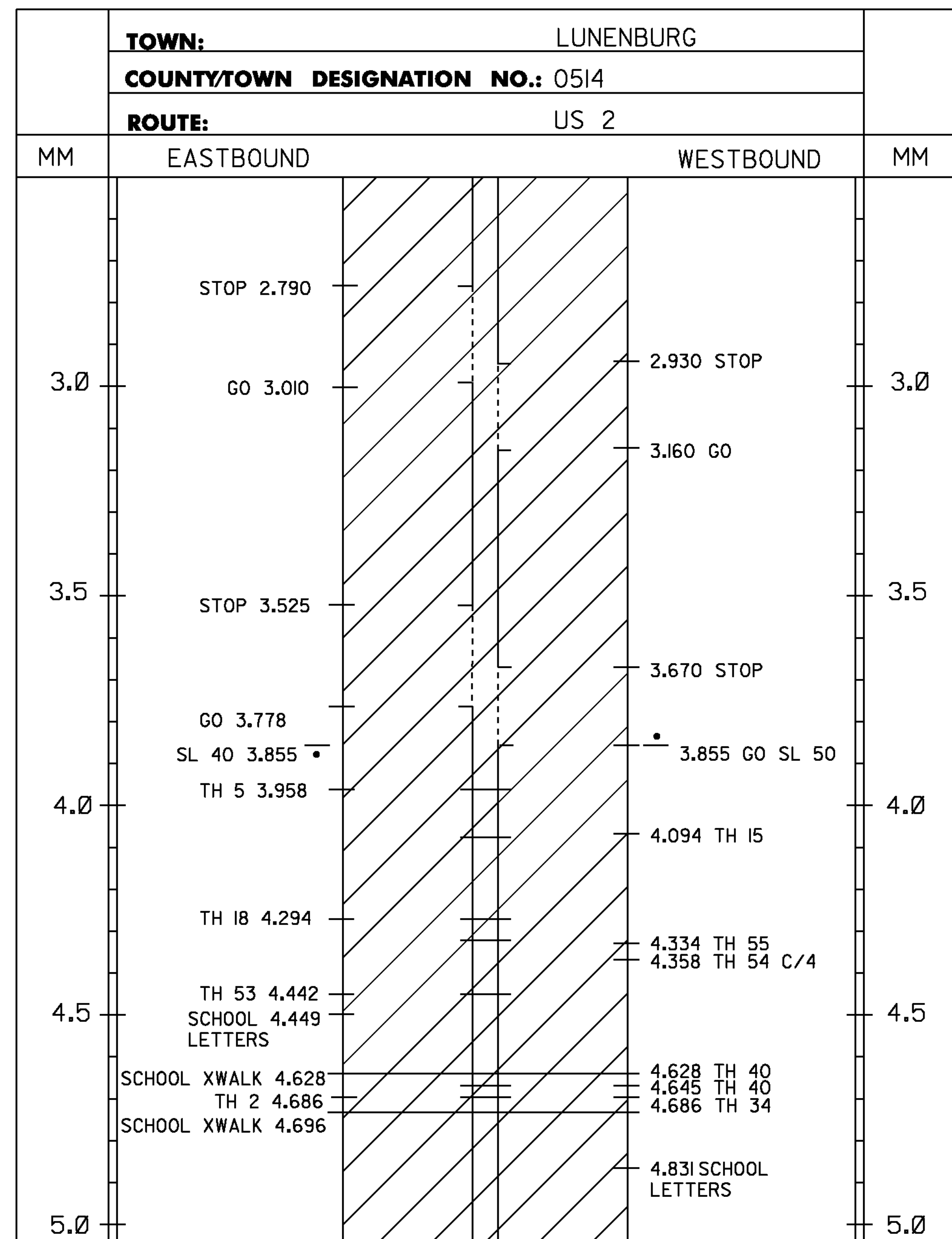
LEGEND
TWBH-THROUGHWAY BEGINS HERE
TWEH-THROUGHWAY ENDS HERE
SHB-STATE HIGHWAY BEGINS
SHE-STATE HIGHWAY ENDS
SL-SPEED LIMIT
C/4 TH- CLASS 4 TOWN HIGHWAY
T/L-TOWN LINE

NOTES:
1. THIS SHEET TO BE USED FOR THE LAYOUT OF ALL CENTERLINE PAVEMENT MARKINGS. THE RESIDENT ENGINEER MAY CONTACT KEITH SWEET, PAVEMENT MARKING SUPERVISOR AT (802) 828-5573 FOR ASSISTANCE LAYING OUT THE CENTERLINE DURING CONSTRUCTION.
2. TWO (2) APPLICATIONS OF FINAL PAVEMENT MARKINGS WILL BE REQUIRED. SEE SPECIAL PROVISIONS FOR COMPLETION DATE REQUIREMENTS.

NOT TO SCALE

PROJECT LAYOUT SHEET #5

PROJECT NAME:	ST. JOHNSBURY - GUILDHALL
PROJECT NUMBER:	NH SURF (32)
FILE NAME:	I0b118\pl0b118.dgn
PROJECT LEADER:	FOWLER
DESIGNED BY:	LOCKE
IPARM FILE NAME:	plb032_11.l
PLOT DATE:	03-FEB-2012
DRAWN BY:	LOCKE
CHECKED BY:	PAVT MGMT
	SHEET II OF 22

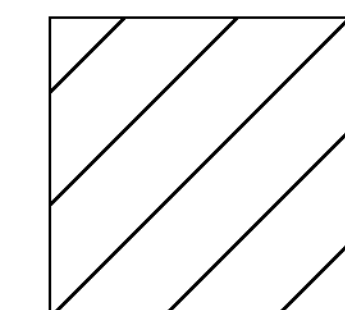
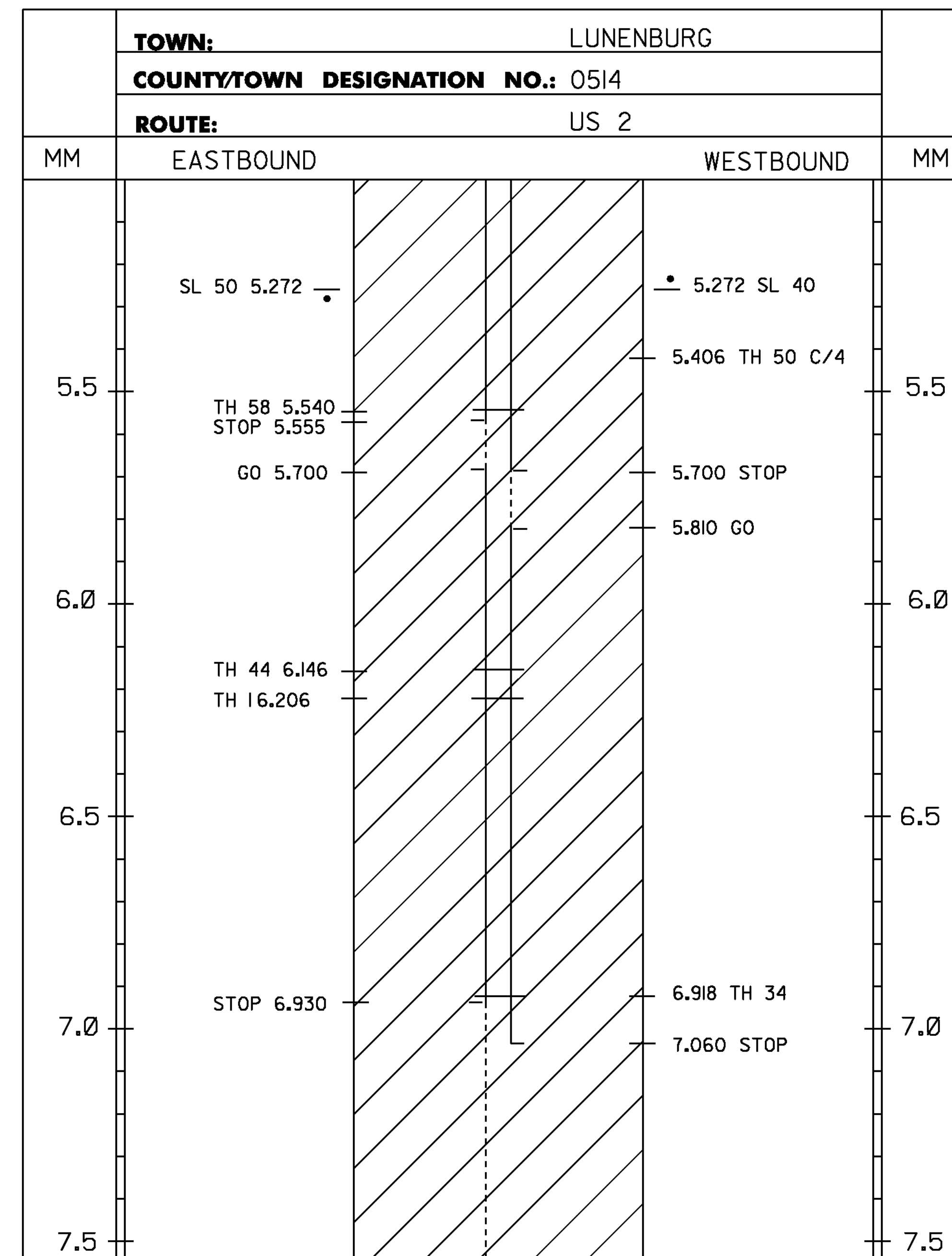


4 INCH WHITE LINE
MM 2.500 - MM 7.500 LT & RT
(WITH BREAKS OR RADI AT TOWN HIGHWAYS)

4 INCH YELLOW LINE
MM 2.500 - MM 2.790 SOLID LT & RT
MM 2.790 - MM 2.930 SOLID LT, DASHED RT
MM 2.930 - MM 3.010 DASHED LT & RT
MM 3.010 - MM 3.160 DASHED LT, SOLID RT
MM 3.160 - MM 3.525 SOLID LT & RT
MM 3.525 - MM 3.670 SOLID LT, DASHED RT
MM 3.670 - MM 3.778 DASHED LT & RT
MM 3.778 - MM 3.855 DASHED LT, SOLID RT
MM 3.855 - MM 5.555 SOLID LT & RT
MM 5.555 - MM 5.700 SOLID LT, DASHED RT
MM 5.700 - MM 5.810 DASHED LT, SOLID RT
MM 5.810 - MM 6.930 SOLID LT & RT
MM 6.930 - MM 7.060 SOLID LT, DASHED RT
MM 7.060 - MM 7.500 DASHED RT
(WITH CENTERLINE BREAKS AT TOWN HIGHWAYS)

LETTER OR SYMBOL
MM 4.449 RT "SCHOOL" 6 EACH
MM 4.831 LT "SCHOOL" 6 EACH

CROSSWALK MARKING
MM 4.628
MM 4.696



PROJECT AREA

LEGEND
TWBH-THROUGHWAY BEGINS HERE
TWEH-THROUGHWAY ENDS HERE
SHB-STATE HIGHWAY BEGINS
SHE-STATE HIGHWAY ENDS
SL-SPEED LIMIT
C/4 TH- CLASS 4 TOWNHIGHWAY
T/L-TOWN LINE

NOTES:
1. THIS SHEET TO BE USED FOR THE LAYOUT OF ALL CENTERLINE PAVEMENT MARKINGS. THE RESIDENT ENGINEER MAY CONTACT KEITH SWEET, PAVEMENT MARKING SUPERVISOR AT (802) 828-5573 FOR ASSISTANCE LAYING OUT THE CENTERLINE DURING CONSTRUCTION.
2. TWO (2) APPLICATIONS OF FINAL PAVEMENT MARKINGS WILL BE REQUIRED. SEE SPECIAL PROVISIONS FOR COMPLETION DATE REQUIREMENTS.

NOT TO SCALE

PROJECT LAYOUT SHEET #6

PROJECT NAME: ST. JOHNSBURY - GUILDHALL

PROJECT NUMBER: NH SURF (32)

FILE NAME: i0b118\pl0b118.dgn

PROJECT LEADER: FOWLER

DESIGNED BY: LOCKE

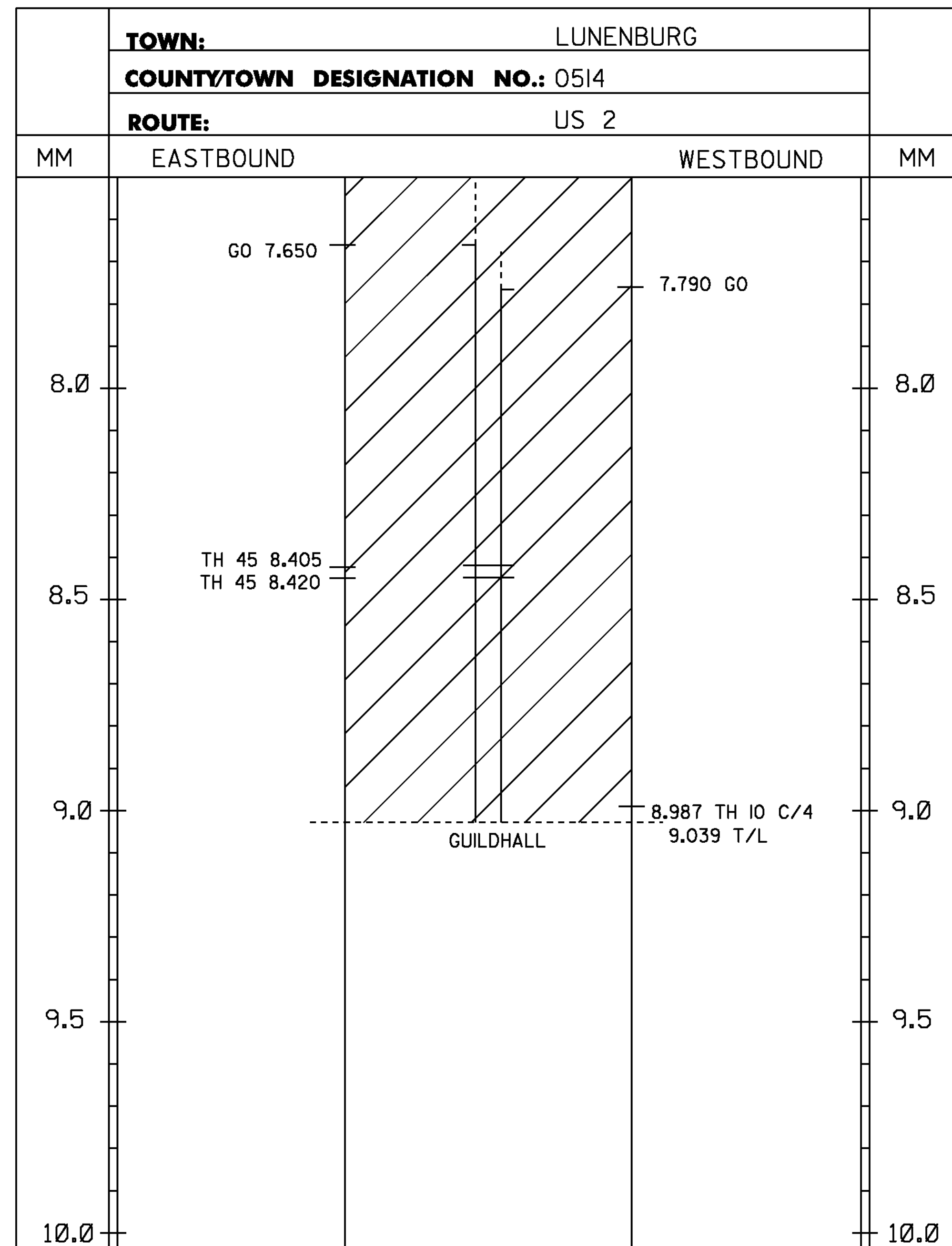
IPARM FILE NAME: pllb032_i2.1

PLOT DATE: 03-FEB-2012

DRAWN BY: LOCKE

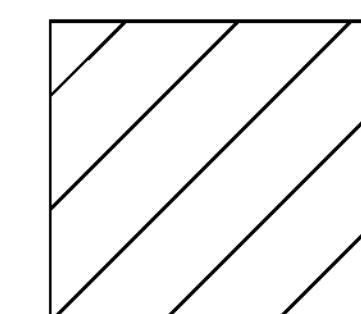
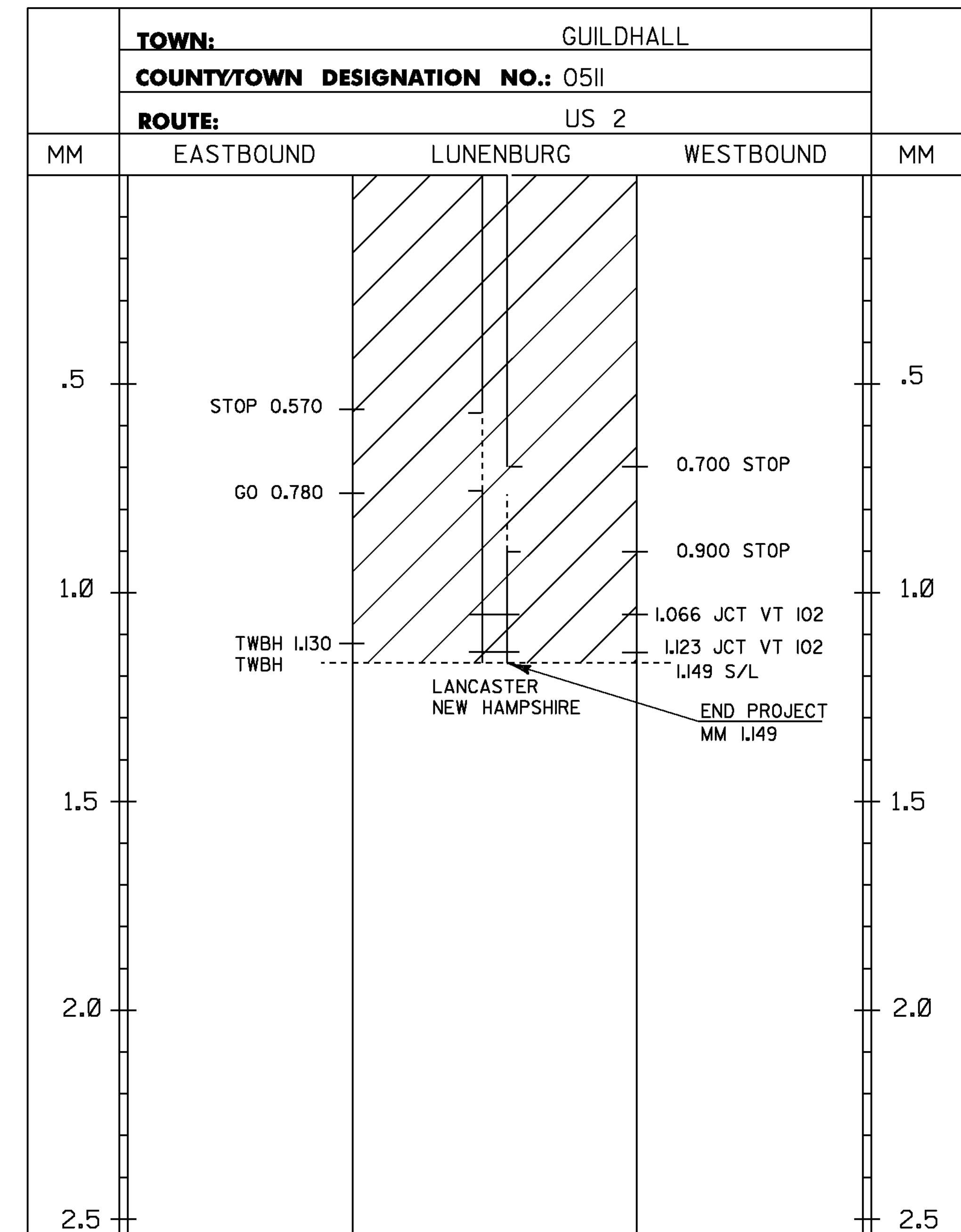
CHECKED BY: PAVT MGMT

SHEET 12 OF 22



4 INCH WHITE LINE
MM 7.500 - MM 9.028 LT & RT
MM 0.000 - MM 1.149 LT & RT
(WITH BREAKS OR RADII AT TOWN HIGHWAYS)

4 INCH YELLOW LINE
MM 7.500 - MM 7.650 DASHED RT
MM 7.650 - MM 7.790 DASHED LT, SOLID RT
MM 7.790 - MM 9.028 SOLID LT & RT
MM 0.000 - MM 0.570 SOLID LT & RT
MM 0.570 - MM 0.700 SOLID LT, DASHED RT
MM 0.700 - MM 0.780 DASHED RT
MM 0.780 - MM 0.900 DASHED LT, SOLID RT
MM 0.900 - MM 1.149 SOLID LT & RT
(WITH CENTERLINE 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
C/4 TH- CLASS 4 TOWN HIGHWAY
T/L-TOWN LINE

NOTES:
1. THIS SHEET TO BE USED FOR THE LAYOUT OF ALL CENTERLINE PAVEMENT MARKINGS. THE RESIDENT ENGINEER MAY CONTACT KEITH SWEET, PAVEMENT MARKING SUPERVISOR AT (802) 828-5573 FOR ASSISTANCE LAYING OUT THE CENTERLINE DURING CONSTRUCTION.
2. TWO (2) APPLICATIONS OF FINAL PAVEMENT MARKINGS WILL BE REQUIRED. SEE SPECIAL PROVISIONS FOR COMPLETION DATE REQUIREMENTS.

NOT TO SCALE

PROJECT LAYOUT SHEET #7

PROJECT NAME:	ST. JOHNSBURY - GUILDHALL
PROJECT NUMBER:	NH SURF (32)
FILE NAME:	I0b118\pl0b118.dgn
PROJECT LEADER:	FOWLER
DESIGNED BY:	LOCKE
IPARM FILE NAME:	plb032_13.1
PLOT DATE:	03-FEB-2012
DRAWN BY:	LOCKE
CHECKED BY:	PAVT MGMT
	SHEET 13 OF 22

4 INCH WHITE LINE
 MM 6.462 - MM 6.587 LT & RT
 (WITH RADIAT INTERSECTIONS)
 MM 6.538 RT (EDGE LINES VT 18)

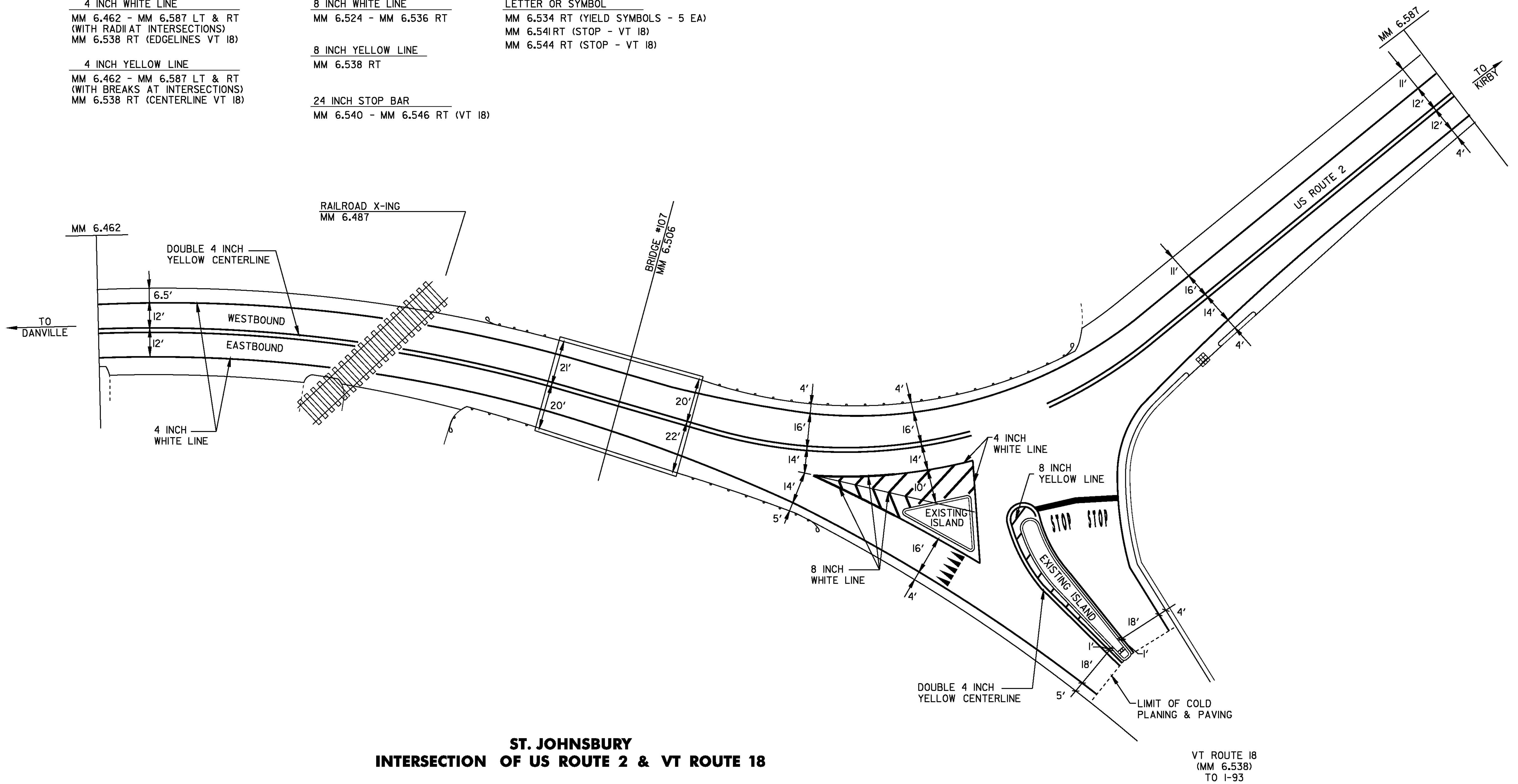
4 INCH YELLOW LINE
 MM 6.462 - MM 6.587 LT & RT
 (WITH BREAKS AT INTERSECTIONS)
 MM 6.538 RT (CENTERLINE VT 18)

8 INCH WHITE LINE
 MM 6.524 - MM 6.536 RT

8 INCH YELLOW LINE
 MM 6.538 RT

24 INCH STOP BAR
 MM 6.540 - MM 6.546 RT (VT 18)

LETTER OR SYMBOL
 MM 6.534 RT (YIELD SYMBOLS - 5 EA)
 MM 6.541 RT (STOP - VT 18)
 MM 6.544 RT (STOP - VT 18)



**ST. JOHNSBURY
 INTERSECTION OF US ROUTE 2 & VT ROUTE 18**

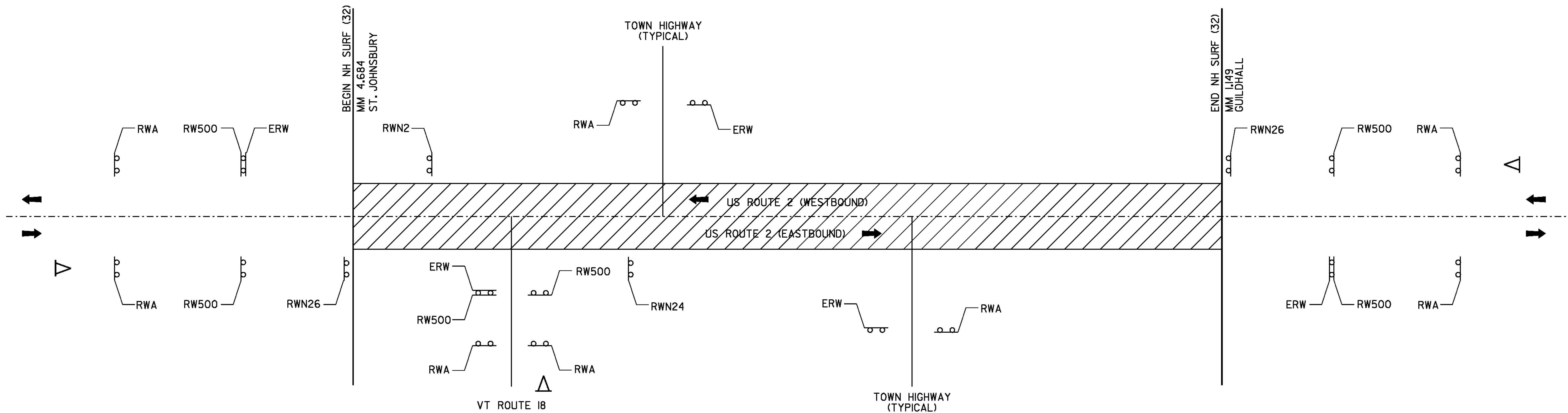
VT ROUTE 18
 (MM 6.538)
 TO I-93

NOT TO SCALE

**PROJECT
 LAYOUT
 SHEET #8**

PROJECT NAME:	ST. JOHNSBURY - GUILDHALL
PROJECT NUMBER:	NH SURF (32)
FILE NAME:	I0b118\pl0b118.dgn
PROJECT LEADER:	FOWLER
DESIGNED BY:	LOCKE
IPARM FILE NAME:	plb032_14.1
PLOT DATE:	03-FEB-2012
DRAWN BY:	LOCKE
CHECKED BY:	PAVT MGMT
	SHEET 14 OF 22

CONSTRUCTION APPROACH SIGNING



NOTES:

1. THE CONTRACTOR SHALL SUBMIT A TRAFFIC CONTROL PLAN TO THE RESIDENT 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 SHALL BE INCLUDED IN THE UNIT PRICE BID FOR ITEM 641.10, TRAFFIC CONTROL.
 2. THE CONTRACTOR SHALL INCLUDE A CONSTRUCTION SIGN APPROACH PACKAGE FOR EXPECTED LANE CLOSURES AND WORK ZONE SPEED REDUCTIONS IN COMPLIANCE WITH VAOT STANDARD E-106 AND THE LATEST EDITION OF THE MUTCD. PAYMENT FOR PROVIDING THIS PACKAGE SHALL BE INCIDENTAL TO ITEM 641.10, TRAFFIC CONTROL.
 3. 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 VTRANS STANDARDS. ALL ADJUSTING, RELOCATING, AND REMOVING OF THESE DEVICES AS DIRECTED BY THE RESIDENT ENGINEER SHALL 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, 646.652 - TEMPORARY 8 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, 646.702 - TEMPORARY CROSSWALK MARKING, 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 RESIDENT 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 VT. STATE 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 4 FEET. IF THE TPAR IS LESS THAN 5 FEET IN WIDTH, A 5 FOOT BY 5 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 PROVIDE A TEMPORARY PEDESTRIAN TRAFFIC CONTROL PLAN FOR REVIEW AND WRITTEN APPROVAL 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.

LEGEND

- RWA = ROAD WORK AHEAD
- RW500 = ROAD WORK IN 500 FEET
- RWN = ROAD WORK NEXT (XX MILES)
- ERW = END ROAD WORK
- △ = PORTABLE CHANGEABLE MESSAGE SIGN
- ▨ = WORK AREA
- ← = DIRECTION OF TRAFFIC FLOW

NOT TO SCALE

**CONSTRUCTION
APPROACH
SIGNING
SHEET**

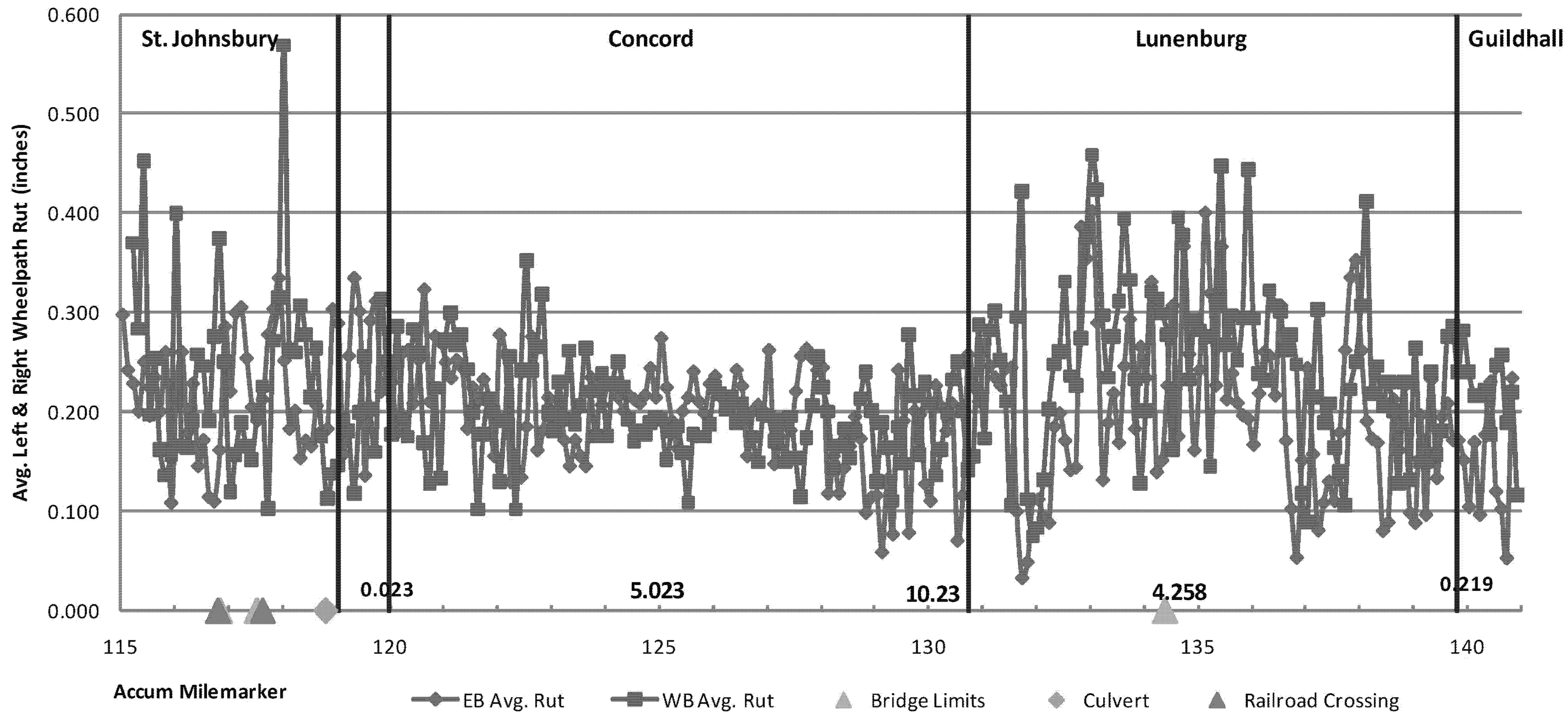
PROJECT NAME:	ST. JOHNSBURY - GUILDHALL
PROJECT NUMBER:	NH SURF (32)
FILE NAME: 11b032\p11b032.dgn	PLOT DATE: 03-FEB-2012
PROJECT LEADER: FOWLER	DRAWN BY: LOCKE
DESIGNED BY: LOCKE	CHECKED BY: PAYT MGMT
IPARM FILE NAME: p11b032_15.1	SHEET 15 OF 22

RUTTING DATA INFORMATION

US 2 St. Johnsbury-Guildhall NH SURF(32) Pre. Construction

Profiled 5-31-11

EB Lane Avg. Rut = 0.203". WB Lane Avg. Rut = 0.223"



FOR INFORMATIONAL PURPOSES ONLY

**RUTTING
DATA
INFORMATION
SHEET**

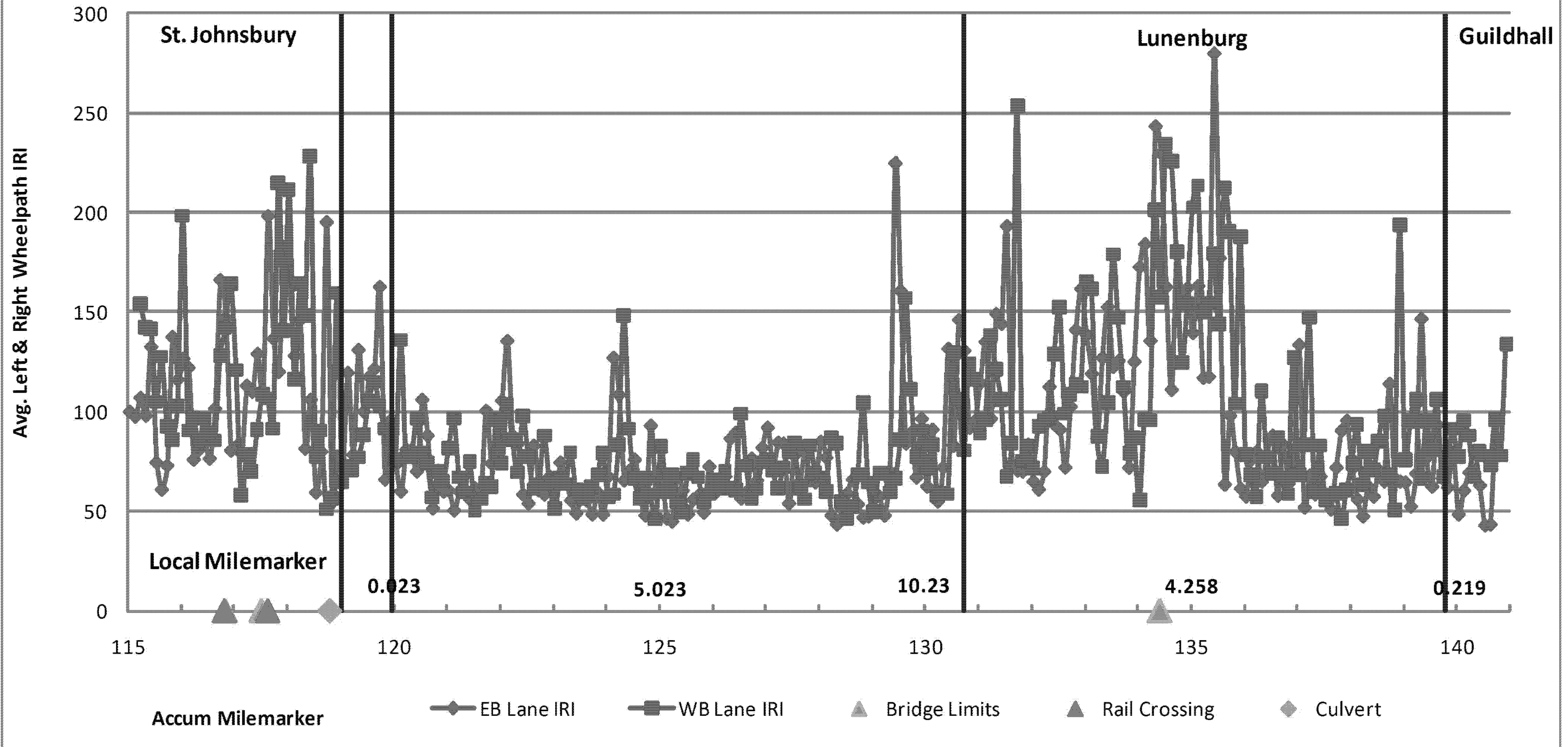
PROJECT NAME:	ST. JOHNSBURY - GUILDHALL
PROJECT NUMBER:	NH SURF (32)
FILE NAME:	llb032\pllb032.dgn
PROJECT LEADER:	FOWLER
DESIGNED BY:	LOCKE
IPARM FILE NAME:	pllb032_16.1
PLOT DATE:	03-FEB-2012
DRAWN BY:	LOCKE
CHECKED BY:	PAVT MGMT
SHEET	16 OF 22

ROUGHNESS DATA INFORMATION

US 2 St. Johnsbury-Guildhall NH SURF(32) Pre. Construction

Profiled 5-31-11

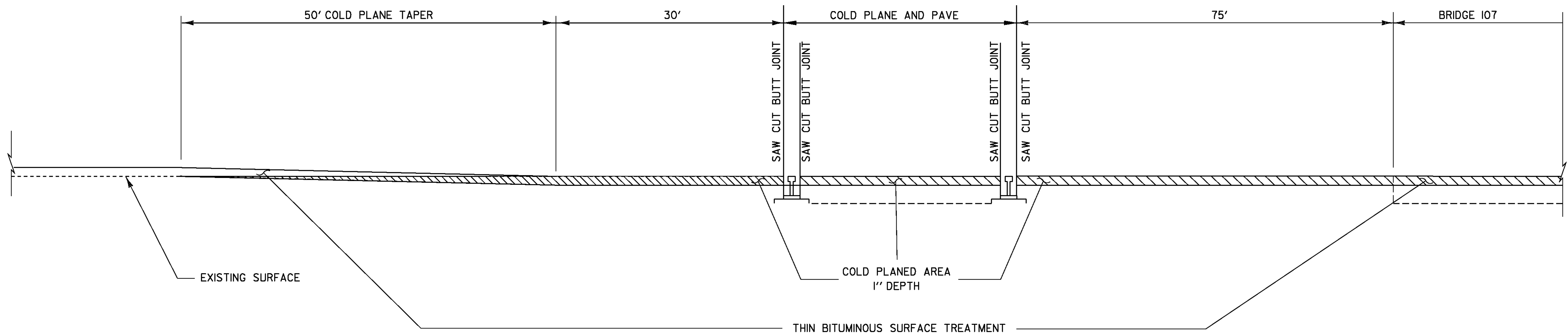
EB Lane Avg. IRI = 90.1, WB Lane Avg. IRI = 94.1



FOR INFORMATIONAL PURPOSES ONLY

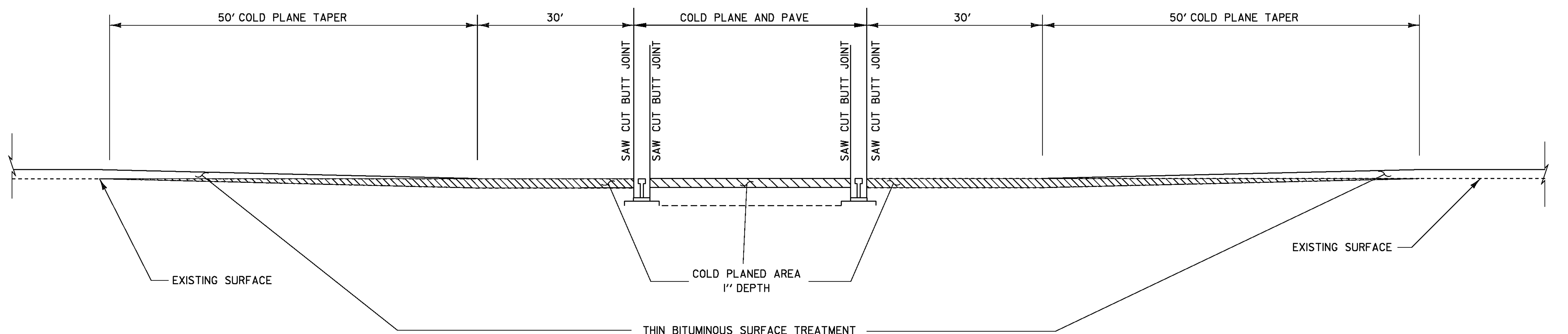
**ROUGHNESS
DATA
INFORMATION
SHEET**

PROJECT NAME:	ST. JOHNSBURY - GUILDHALL
PROJECT NUMBER:	NH SURF (32)
FILE NAME:	llb032\pllb032.dgn
PROJECT LEADER:	FOWLER
DESIGNED BY:	LOCKE
IPARM FILE NAME:	pllb032_17.1
PLOT DATE:	03-FEB-2012
DRAWN BY:	LOCKE
CHECKED BY:	PAVT MGMT
SHEET	17 OF 22



RAIL - HIGHWAY CROSSING TREATMENT DETAIL

PAN AM RAILWAYS
 AAR/DOT #364-714V RR MP 128.33 (US ROUTE 2 MM 6.487 ST. JOHNSBURY)
 NOTE: EXISTING RAIL SEAL IS TO REMAIN

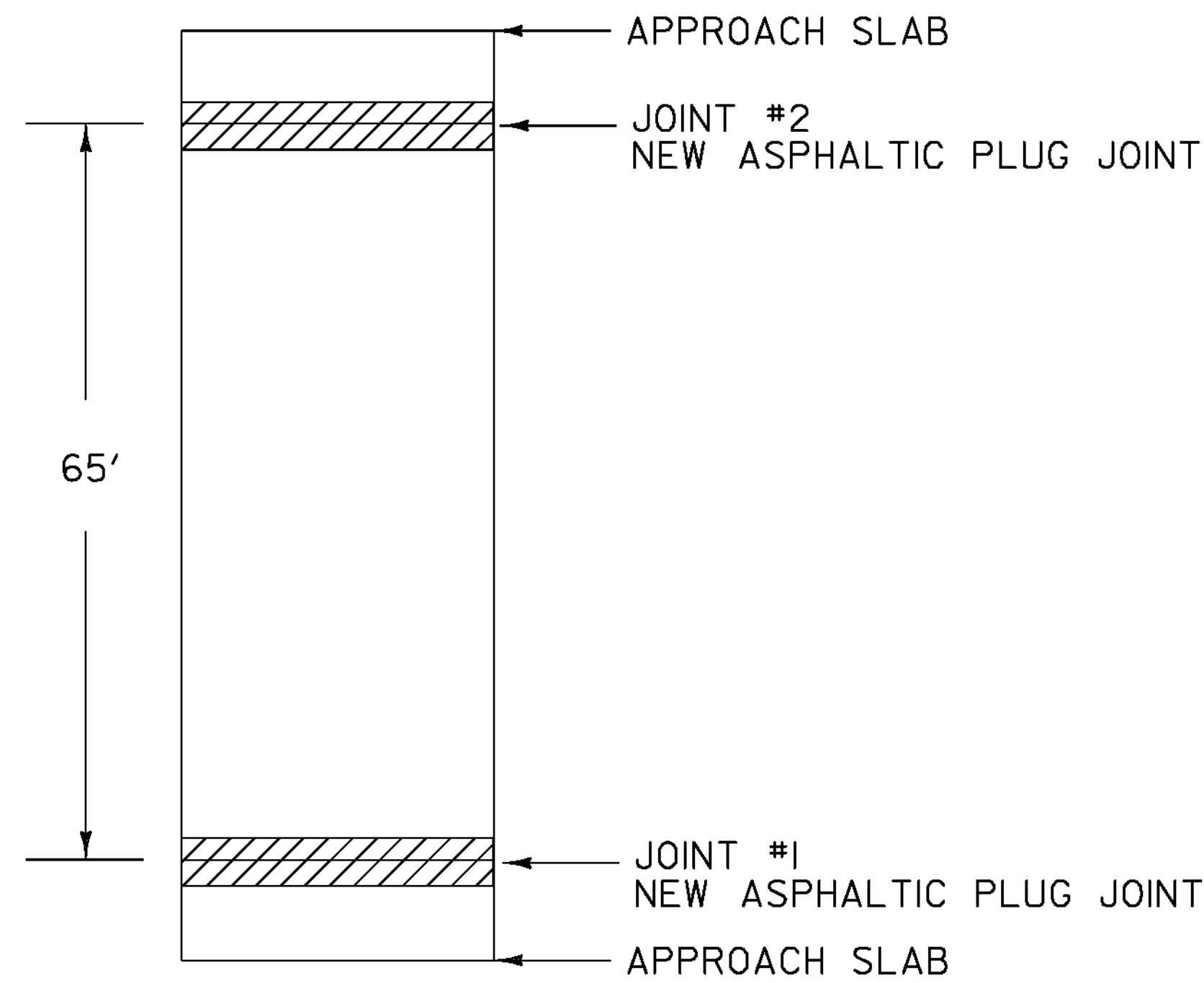


RAIL - HIGHWAY CROSSING TREATMENT DETAIL

PAN AM RAILWAYS
 AAR/DOT #364-715C RR MP 127.50 (US ROUTE 2 MM 7.314 ST. JOHNSBURY)
 NOTE: EXISTING RAIL SEAL IS TO REMAIN

NOT TO SCALE

RAILROAD CROSSING DETAIL SHEET	PROJECT NAME: ST. JOHNSBURY - GUILDHALL
	PROJECT NUMBER: NH SURF (32)
	FILE NAME: \\lb032\pllb032.dgn
	PLOT DATE: 03-FEB-2012
PROJECT LEADER: FOWLER	DRAWN BY: LOCKE
DESIGNED BY: LOCKE	CHECKED BY: PAVT MGMT
IPARM FILE NAME: pllb032_l8.1	SHEET 18 OF 22



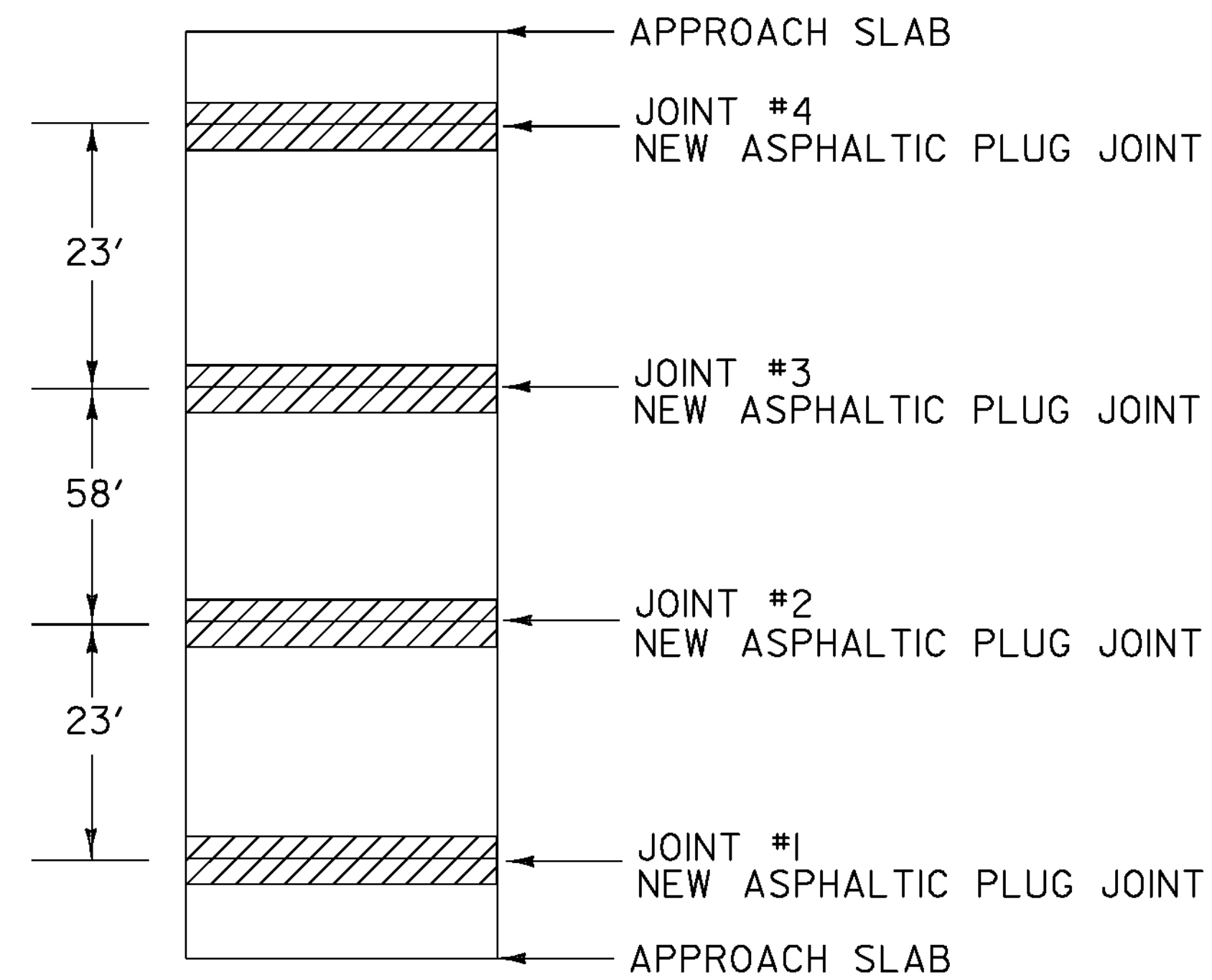
BRIDGE 107

MM 6.538 (ST. JOHNSBURY)

LENGTH OF ASPHALTIC PLUG JOINTS:

JOINT #1 - 4'
JOINT #2 - 4'

TOTAL = 82'



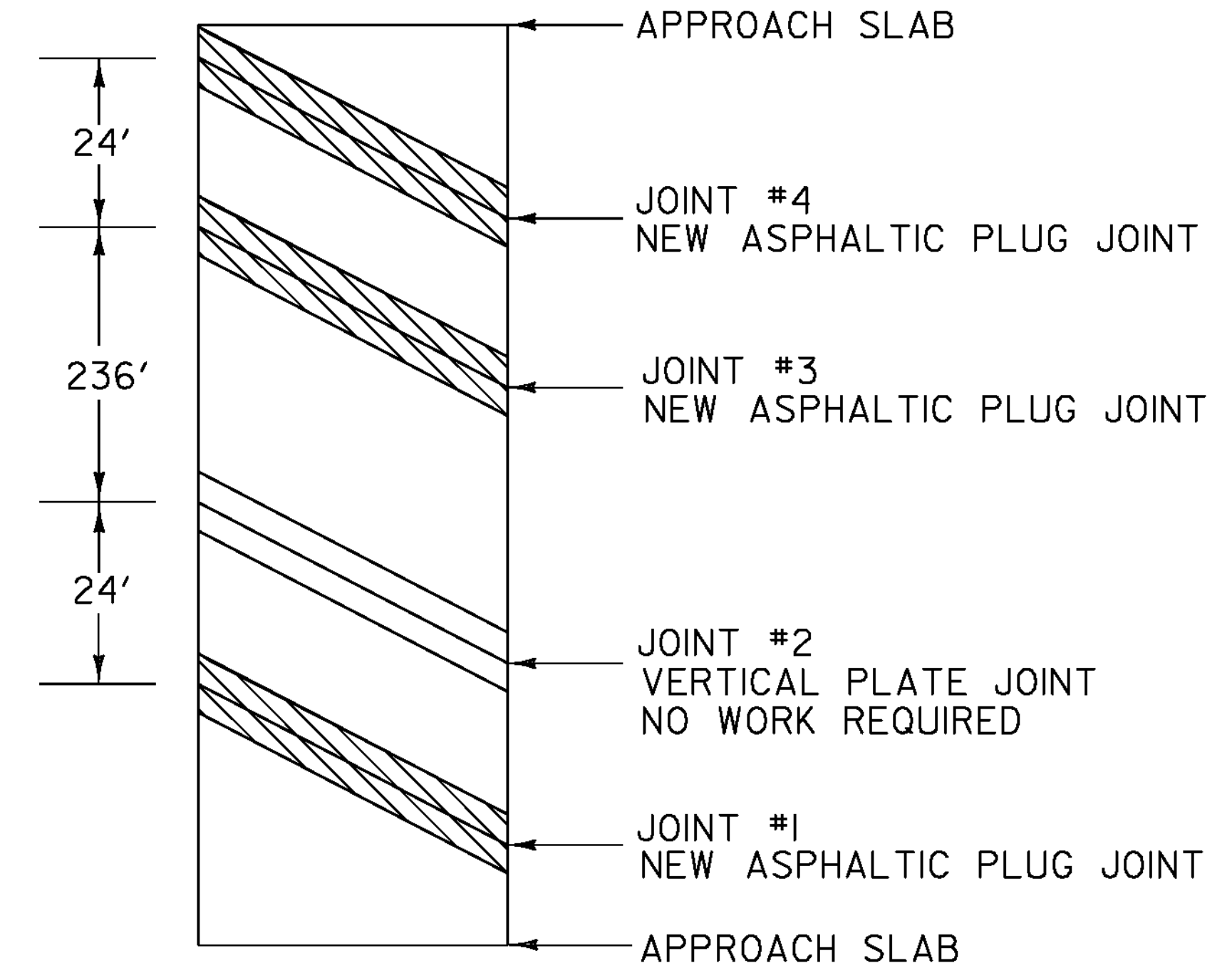
BRIDGE 108

MM 7.199 (ST. JOHNSBURY)

LENGTH OF ASPHALTIC PLUG JOINTS:

JOINT #1 - 30'
JOINT #2 - 30'
JOINT #3 - 30'
JOINT #4 - 30'

TOTAL = 120'



BRIDGE 117

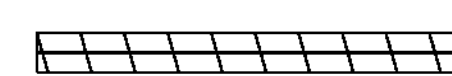
MM 4.271 (CONCORD)

LENGTH OF ASPHALTIC PLUG JOINTS:

JOINT #1 - 45'
JOINT #3 - 45'
JOINT #4 - 45'

TOTAL = 135'

LEGEND

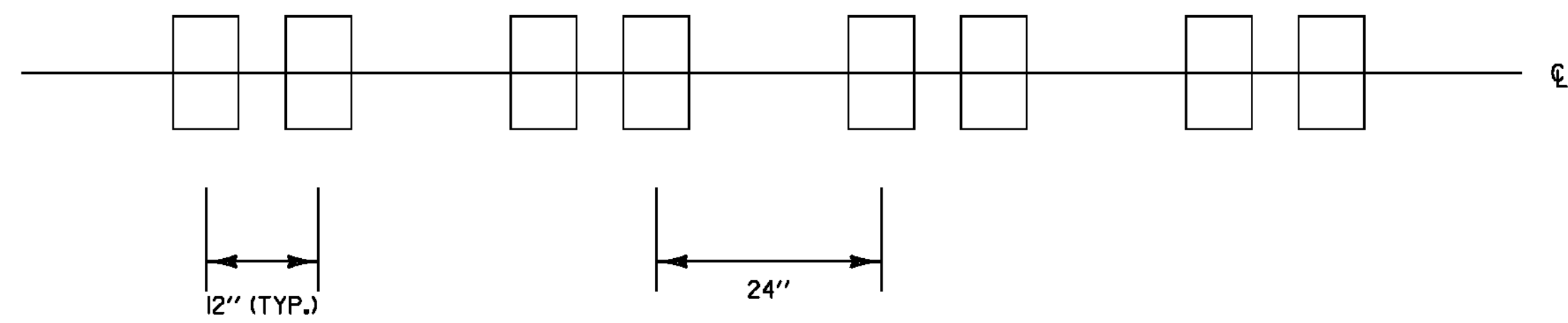


EXISTING BRIDGE JOINTS TO BE REPAIRED WITH ASPHALTIC PLUG JOINT

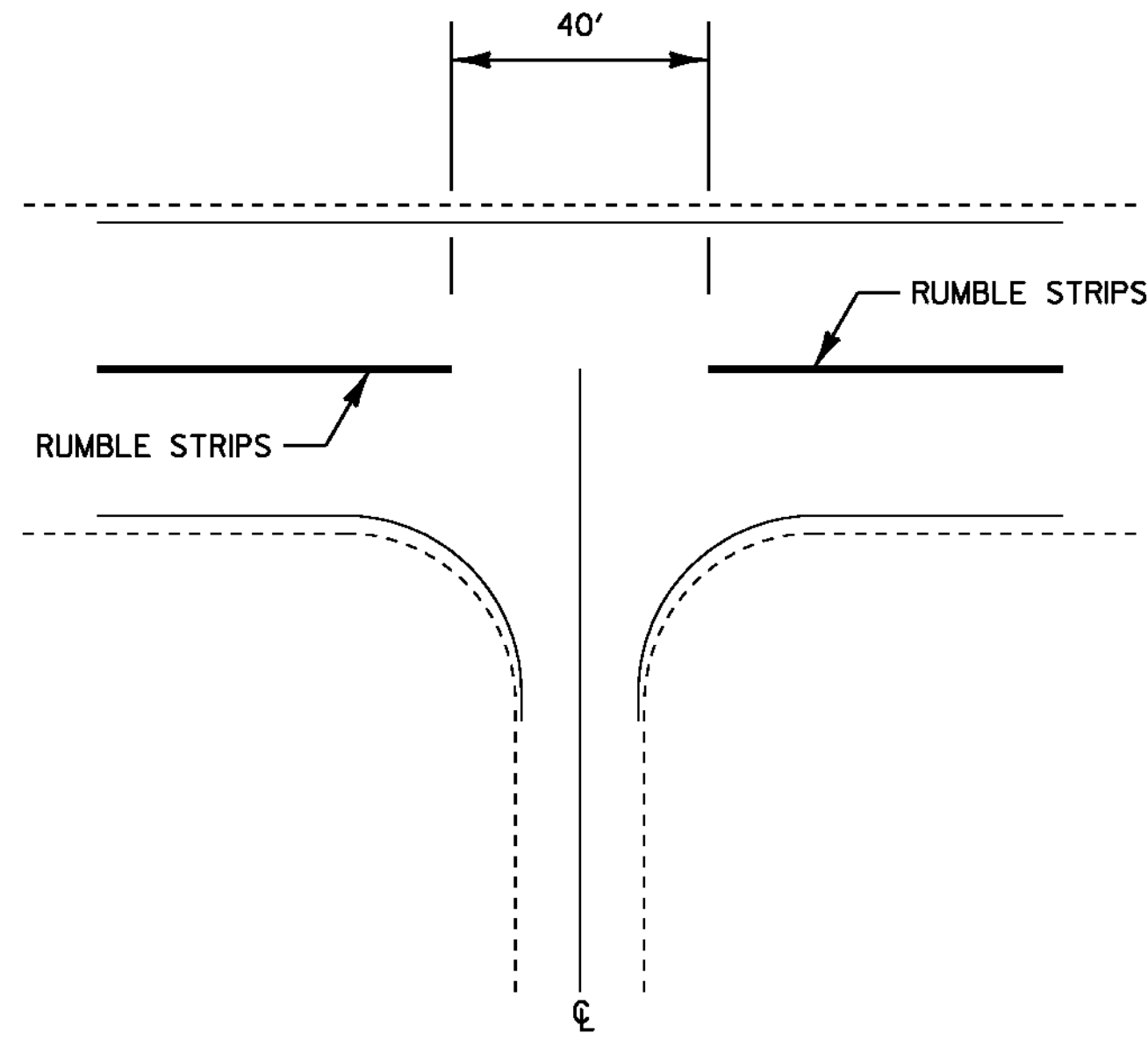
NOT TO SCALE

**BRIDGE
DETAIL
SHEET**

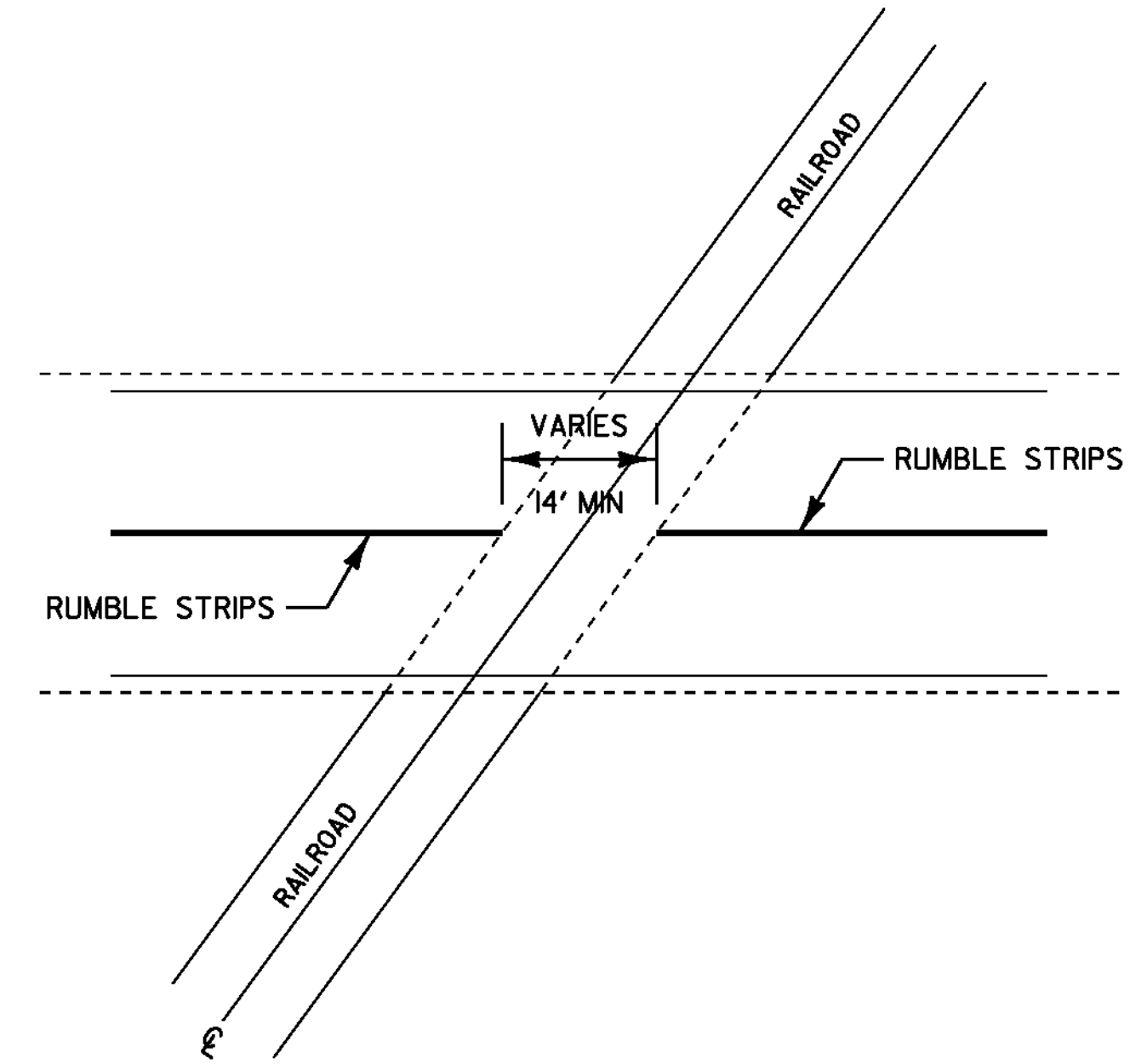
PROJECT NAME:	ST. JOHNSBURY - GUILDHALL
PROJECT NUMBER:	NH SURF (32)
FILE NAME:	11b032\p11b032.dgn
PROJECT LEADER:	FOWLER
DESIGNED BY:	LOCKE
IPARM FILE NAME:	p11b032_19.1
PLOT DATE:	03-FEB-2012
DRAWN BY:	LOCKE
CHECKED BY:	PAVT MGMT
SHEET	19 OF 22



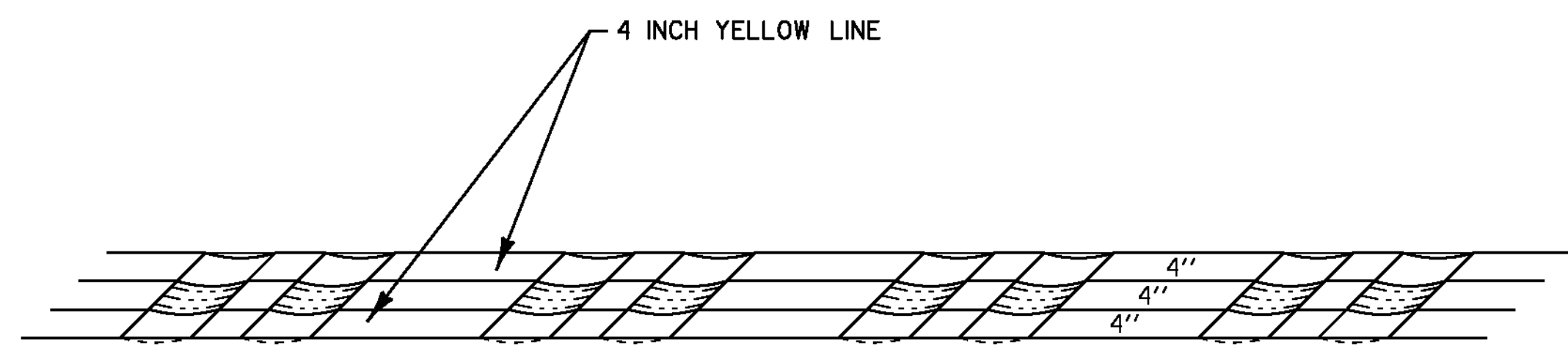
RUMBLE STRIP LAYOUT



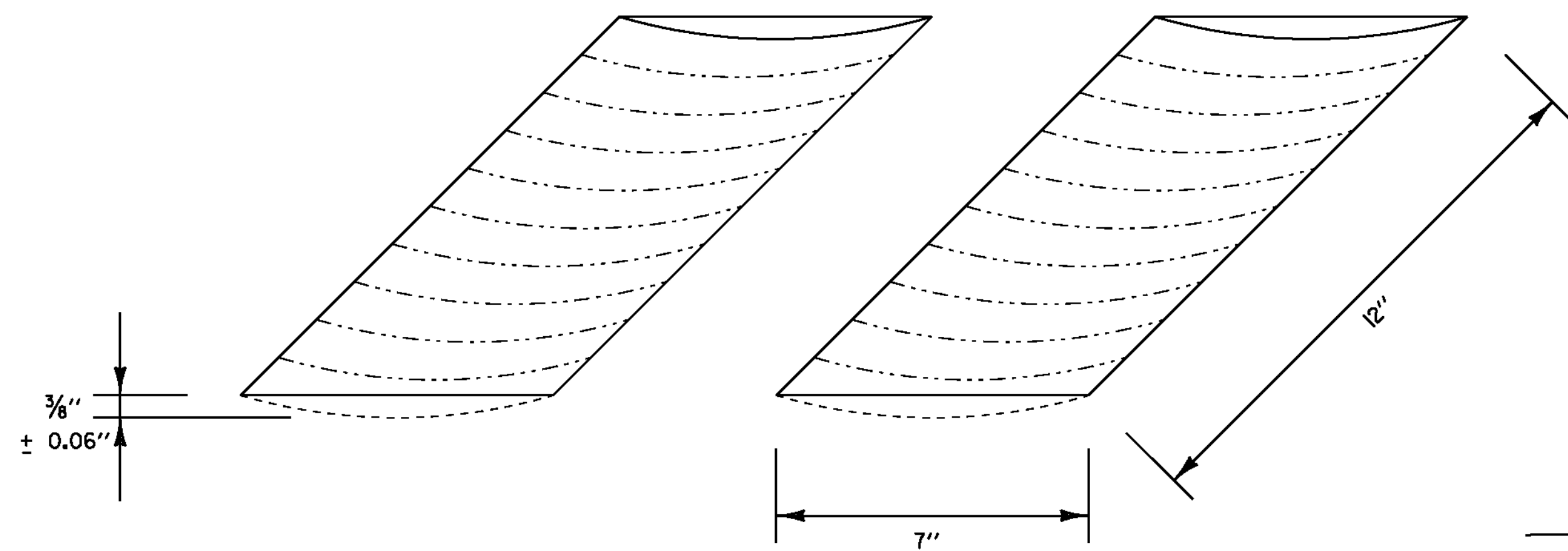
INTERSECTION DETAIL



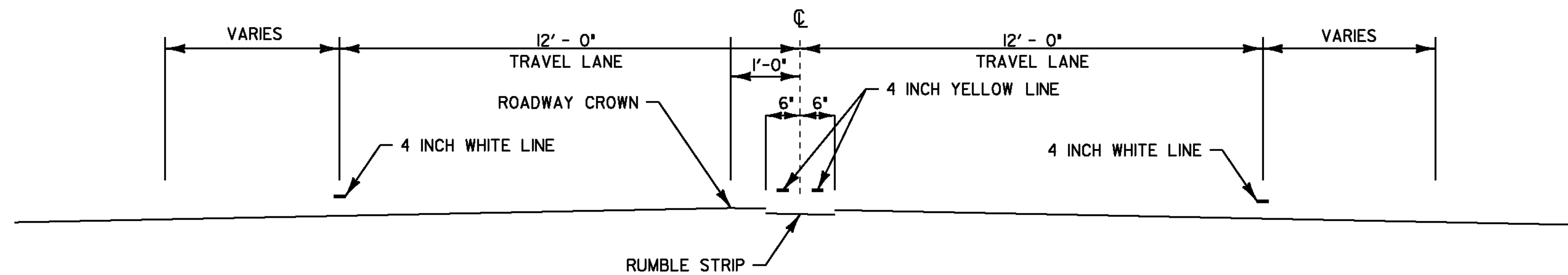
RAILROAD CROSSING DETAIL



PAVEMENT MARKINGS DETAIL



RUMBLE STRIP DETAIL



RUMBLE STRIP TYPICAL SECTION

- ST. JOHNSBURY
- MM 5.050 - 5.800
- MM 6.300 - 6.600
- MM 6.800 - 7.350
- MM 8.240 - 8.659
- KIRBY
- MM 0.000 - 0.967
- CONCORD
- MM 0.000 - 1.830
- MM 2.345 - 10.765
- LUNENBURG
- MM 0.000 - 3.850
- MM 5.280 - 9.039
- GUILDHALL
- MM 0.000 - 0.900

NOTES

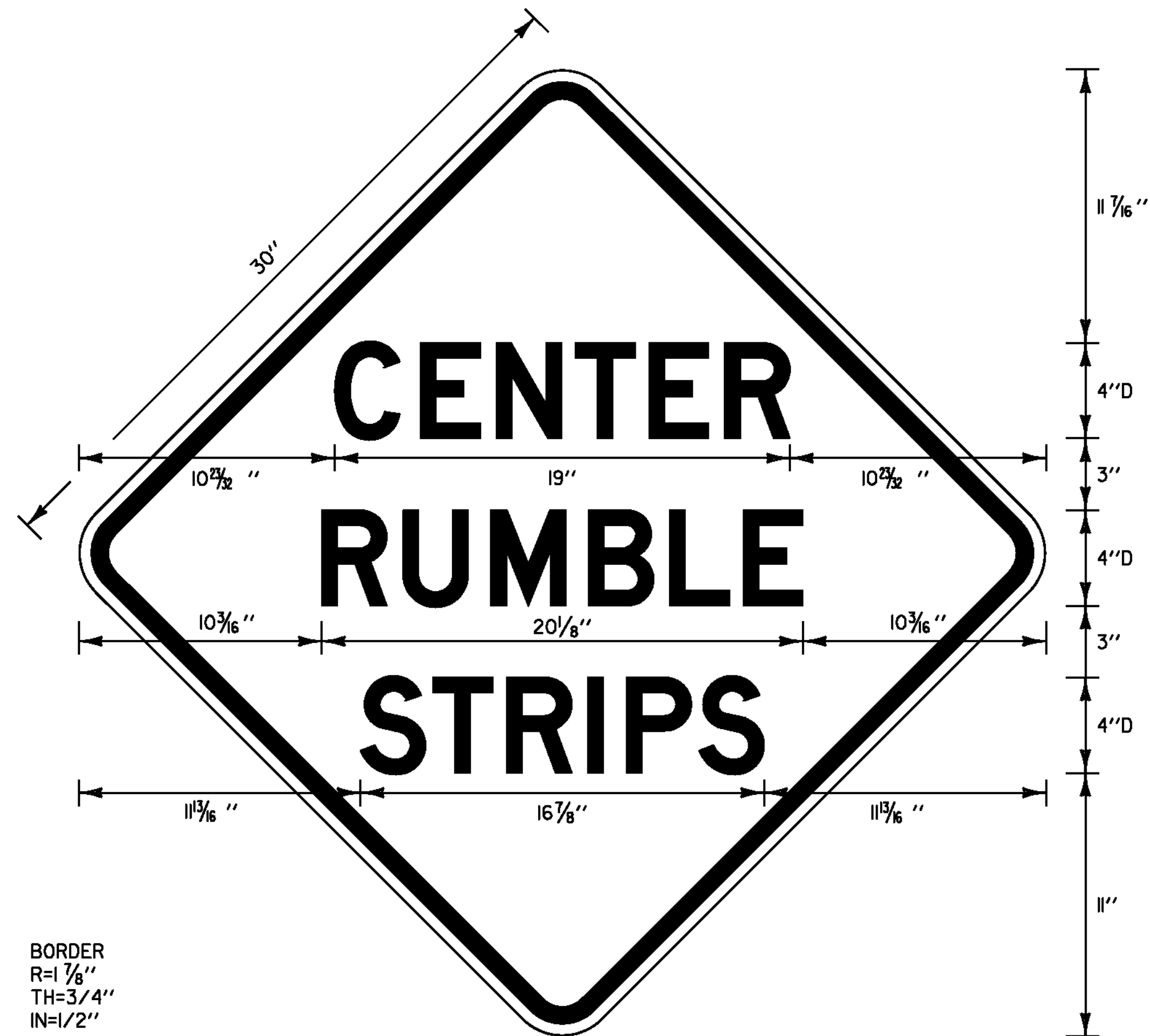
1. CENTERLINE RUMBLE STRIPS NOT TO EXTEND BEYOND CENTERLINE WHEN CENTERLINE IS A DOUBLE YELLOW LINE, WITH OR WITHOUT A PASSING ZONE.
2. CENTERLINE RUMBLE STRIP TO BE PLACED ALONG CENTERLINE OF ROADWAY.
3. CENTERLINE RUMBLE STRIP TO STOP 20 FEET PRIOR TO THE CENTERLINE OF AN INTERSECTION.
4. WIDTH OF GAP AT RAILROAD CROSSINGS WILL VARY WITH SKEW OF CROSSING WITH A MINIMUM 14 FOOT GAP TO BE PROVIDED AT ALL RAILROAD CROSSINGS.

**CENTERLINE
RUMBLE STRIP
DETAIL
SHEET #1**

PROJECT NAME: ST. JOHNSBURY - GUILDHALL
PROJECT NUMBER: NH SURF(32)

FILE NAME: I1b032\p11b032.dgn
PROJECT LEADER: MJF
DESIGNED BY: KML
p11b032_20.i

PLOT DATE: 03-FEB-2012
DRAWN BY: KML
CHECKED BY: MJF
SHEET 20 OF 22

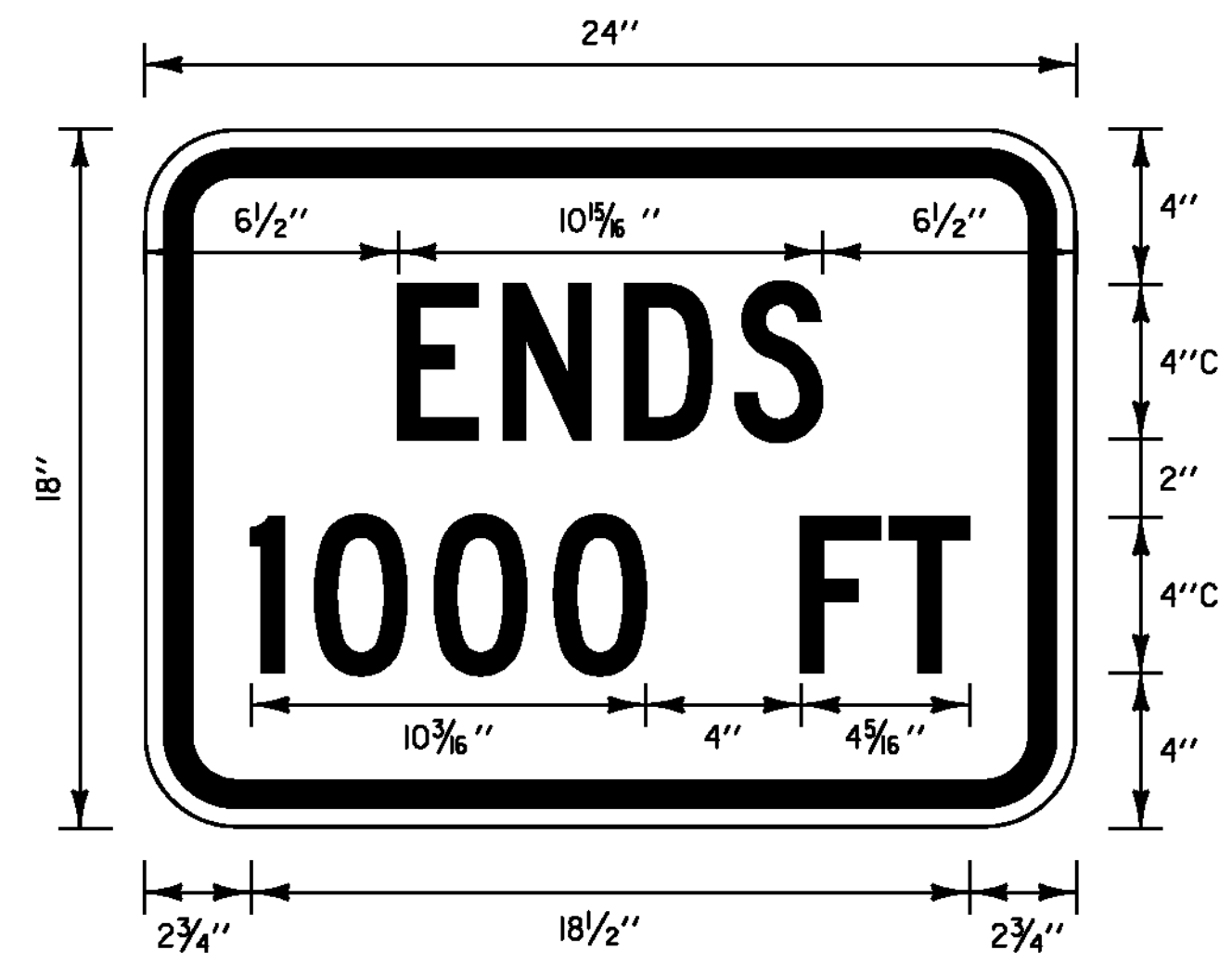


BLACK TEXT WITH YELLOW (RETROREFLECTIVE) BACKGROUND
SEE VAOT STANDARD E-150 FOR MATERIALS

LOCATIONS

ST. JOHNSBURY
MM 5.050, RT
MM 5.239, LT

GUILDHALL
MM 0.711, RT
MM 0.900, LT

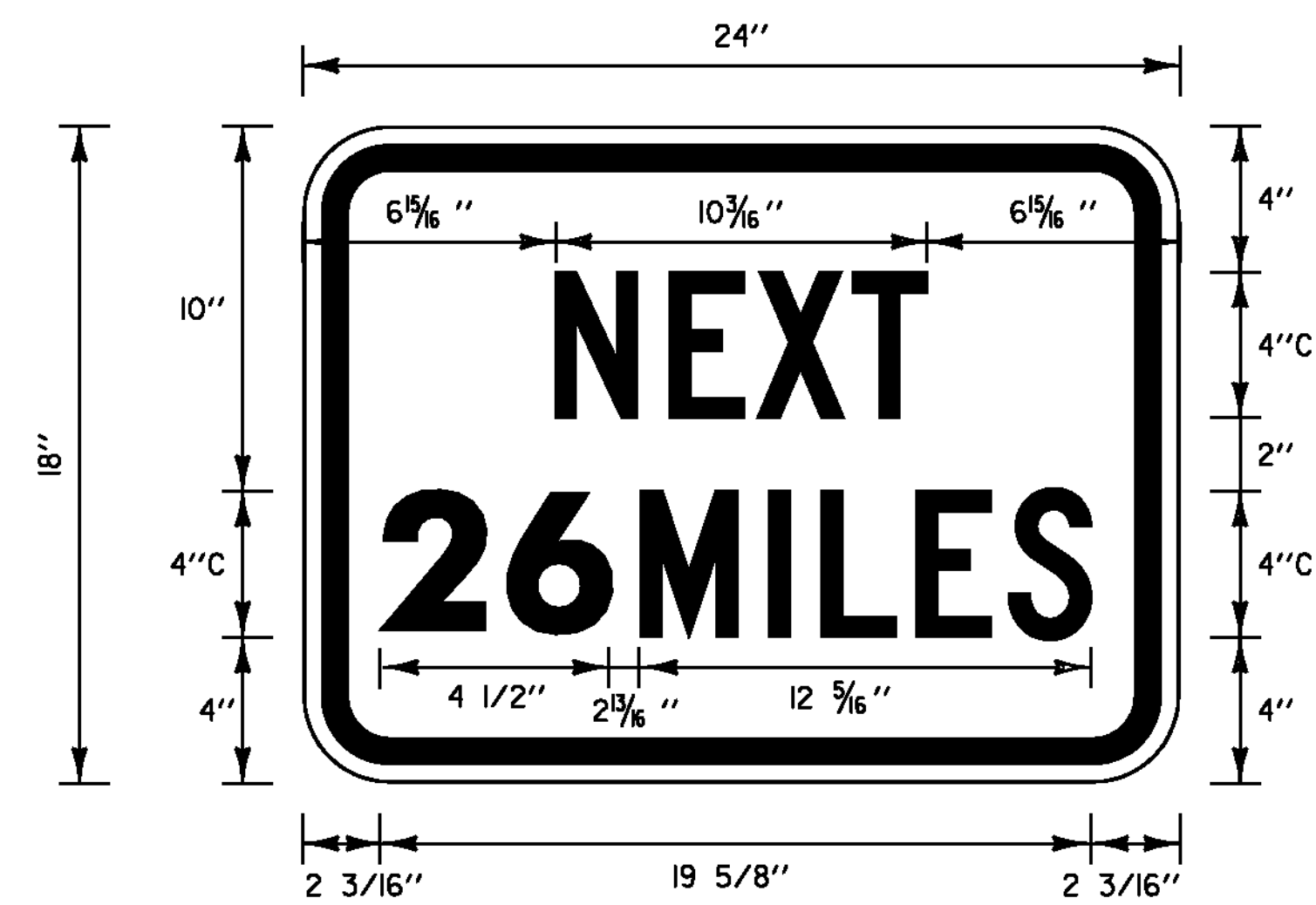


BORDER
R=1 7/8"
TH=3/4"
IN=1/2"

BLACK TEXT WITH YELLOW (RETROREFLECTIVE) BACKGROUND
SEE VAOT STANDARD E-150 FOR MATERIALS

LOCATIONS

ST. JOHNSBURY
MM 5.239, LT
GUILDHALL
MM 0.711, RT



BORDER
R=1 7/8"
TH=3/4"
IN=1/2"

BLACK TEXT WITH YELLOW (RETROREFLECTIVE) BACKGROUND
SEE VAOT STANDARD E-150 FOR MATERIALS

ST. JOHNSBURY
MM 5.050, RT
GUILDHALL
MM 0.900, LT

CENTERLINE RUMBLE STRIP DETAIL SHEET #2	PROJECT NAME: ST. JOHNSBURY - GUILDHALL
	PROJECT NUMBER: NH SURF(32)
FILE NAME: I1b032\p11b032.dgn	PLOT DATE: 03-FEB-2012
PROJECT LEADER: MJF	DRAWN BY: KML
DESIGNED BY: KML	CHECKED BY: MJF
p11b032_21.i	SHEET 21 OF 22

