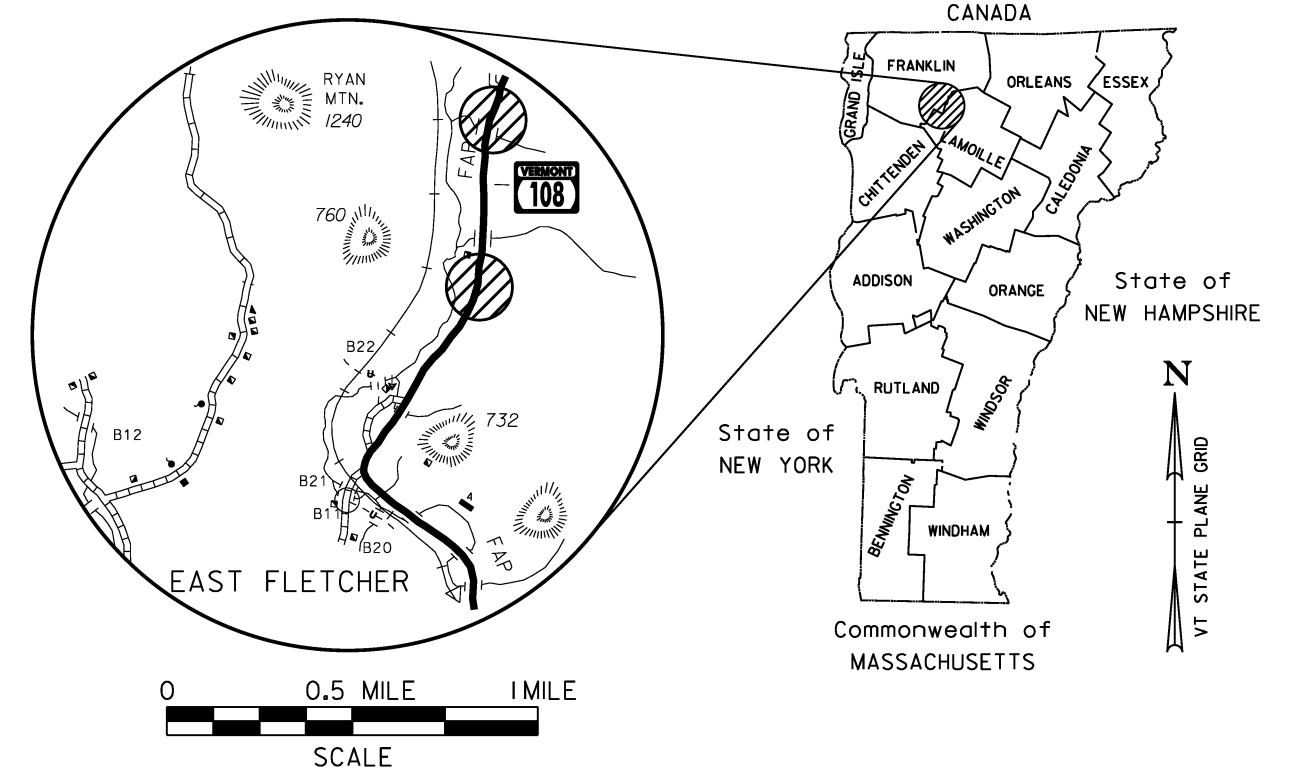


# STATE OF VERMONT AGENCY OF TRANSPORTATION



## PROPOSED IMPROVEMENT TOWN OF FLETCHER COUNTY OF FRANKLIN VT ROUTE 108 MINOR ARTERIAL

*R.O.W. PLANS*



SITE 1 BEGINNING IN THE TOWN OF FLETCHER ON VT ROUTE 108 AT STA. 78+50.67 (MM 1.487) AND EXTENDING NORTHERLY FOR A DISTANCE OF 238.66 FEET (0.045 MILES) TO STA. 80+89.33 (MM 1.532).

SITE 2 BEGINNING IN THE TOWN OF FLETCHER ON VT ROUTE 108 AT STA. 118+86.00 (MM 2.251) AND EXTENDING NORTHERLY FOR A DISTANCE OF 196.33 FEET (0.037 MILES) TO STA. 120+82.33 (MM 2.288).

| TOWN OF FLETCHER<br>VT ROUTE 108                        | LENGTH<br>(FEET) | LENGTH<br>(MILES) |
|---|------------------|-------------------|
| SITE 1: STA. 78+50.67 TO 80+89.33 (MM 1.487 TO 1.532)   | 238.66           | 0.045             |
| SITE 2: STA. 118+86.00 TO 120+82.33 (MM 2.251 TO 2.288) | 196.33           | 0.037             |
| <b>TOTAL LENGTH OF PROJECT:</b>                         | <b>434.99</b>    | <b>0.082</b>      |
| <b>TOTAL LENGTH OF ROADWAY:</b>                         | <b>434.99</b>    | <b>0.082</b>      |

WORK TO BE PERFORMED UNDER THIS PROJECT INCLUDES FULL DEPTH RECONSTRUCTION OF SUBBASE AND PAVEMENT, SLOPE REPAIR, CULVERT REPLACEMENT, GUARDRAIL AND OTHER RELATED HIGHWAY ITEMS.

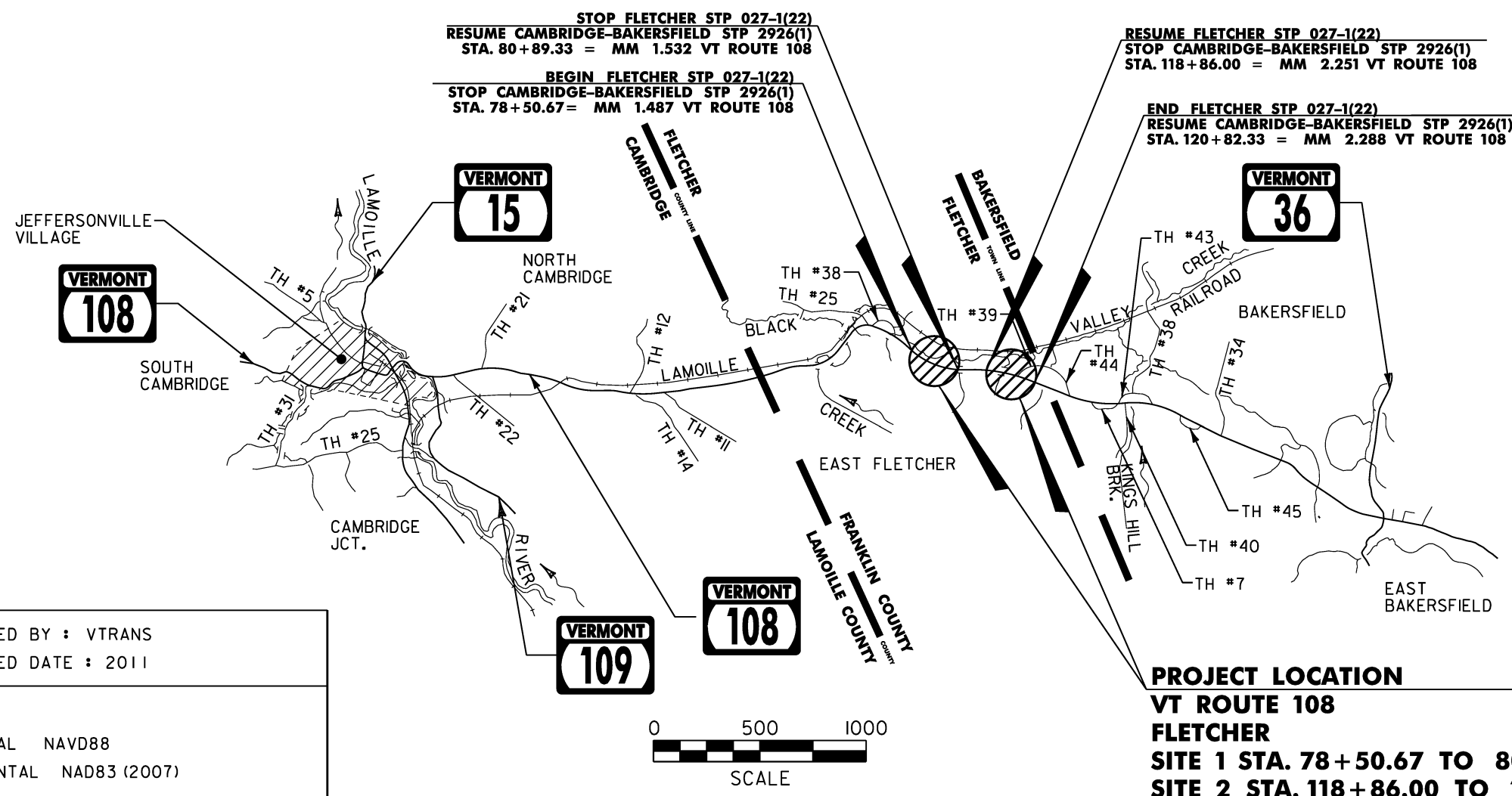
ALL DRIVES AS INDICATED ON PLANS ARE SUBJECT TO PERMITS PURSUANT TO TITLE 19 V.S.A. § 1111.

### CONVENTIONAL SYMBOLS

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

SURVEYED BY : VTRANS  
SURVEYED DATE : 2011

DATUM  
VERTICAL NAVD88  
HORIZONTAL NAD83 (2007)



VT STATE PLANE GRID

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

APPROVED RICHARD TETREault DATE 08-01-12  
*Director of Program Development*

APPROVED ROBERT M. WHITE DATE 08-01-12  
*Chief of Right of Way*

**FLETCHER  
STP 027-1(22)**

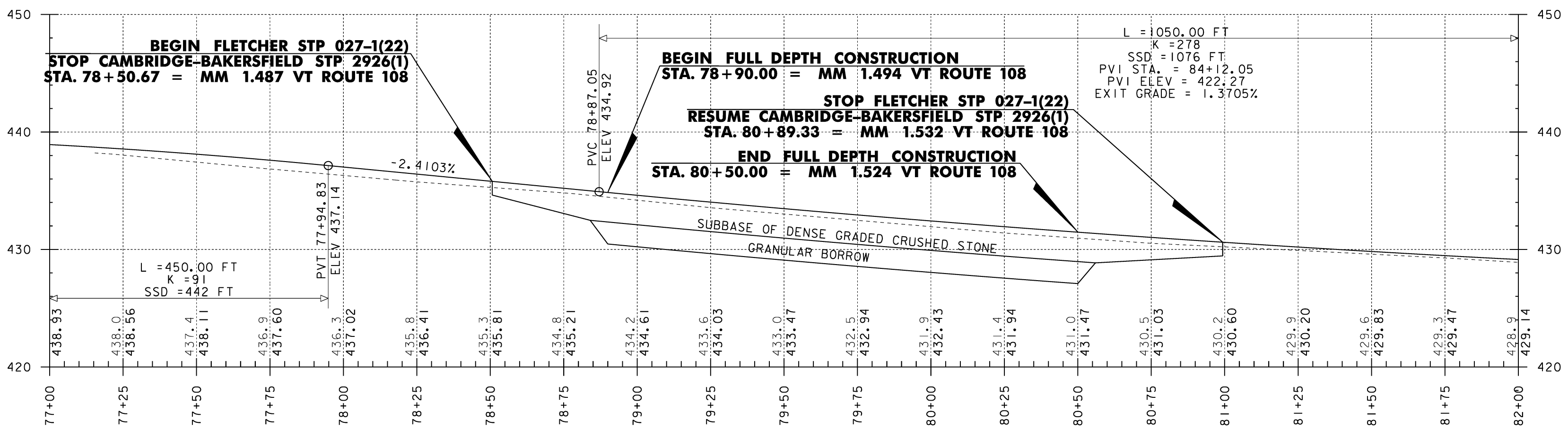
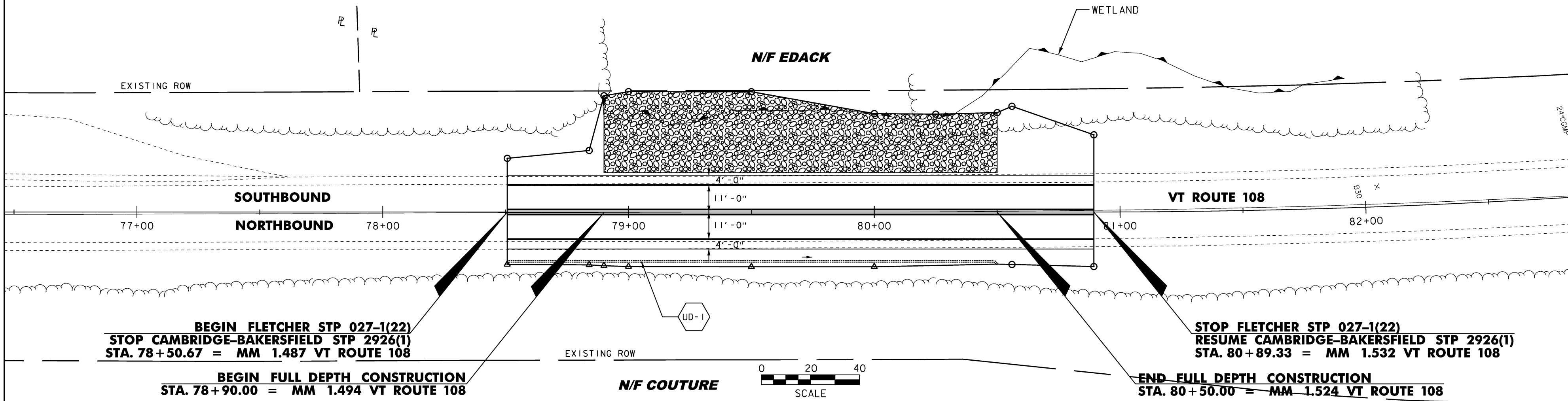
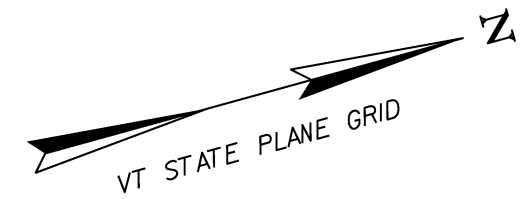
ROW SHEET 1 OF 6 SHEETS

**PROJECT LOCATION**  
**VT ROUTE 108**  
**FLETCHER**  
**SITE 1 STA. 78+50.67 TO 80+89.33**  
**SITE 2 STA. 118+86.00 TO 120+82.33**



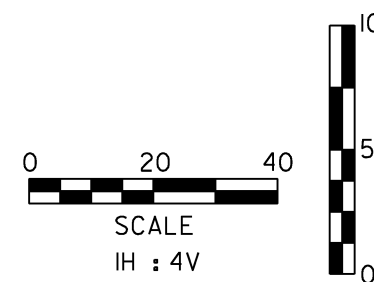
646.400 DURABLE 4 INCH WHITE LINE  
 STA. 78+50.67, LT. - STA. 80+89.33, LT.  
 STA. 78+50.67, RT. - STA. 80+89.33, RT.  
 646.410 DURABLE 4 INCH YELLOW LINE  
 STA. 78+50.67, CL. - STA. 80+89.33, CL. (DOUBLE)

UD-1 STA. 78+50.67, RT. - STA. 80+50.00, RT.  
 CONSTRUCT 6" x 200' UNDERDRAIN  
 CONNECT TO UNDERDRAIN CONSTRUCTED UNDER  
 STP 2926 (1) AT 78+50.67, RT.



LINES SHOWN ON THIS PLAN AS EXISTING  
 PROPERTY LINES P/L ARE BELIEVED TO  
 BE ACCURATE BUT SHOULD NOT BE RELIED  
 UPON FOR PURPOSES UNRELATED TO THE  
 STATE OF VERMONT'S ACQUISITION OF LAND  
 AND RIGHTS FOR THIS PROJECT.

**FOR R.O.W.  
 USE ONLY**



PROJECT NAME: FLETCHER  
 PROJECT NUMBER: STP 027-1(22)

FILE NAME: r1lb064.lay1.dgn  
 PROJECT LEADER: K. ROBIE  
 DESIGNED BY: STANTEC

PLOT DATE: 01-AUG-2012  
 DRAWN BY: J. BLANCHARD  
 CHECKED BY: H. PETROVS  
 SHEET 3 OF 6

NOTES:

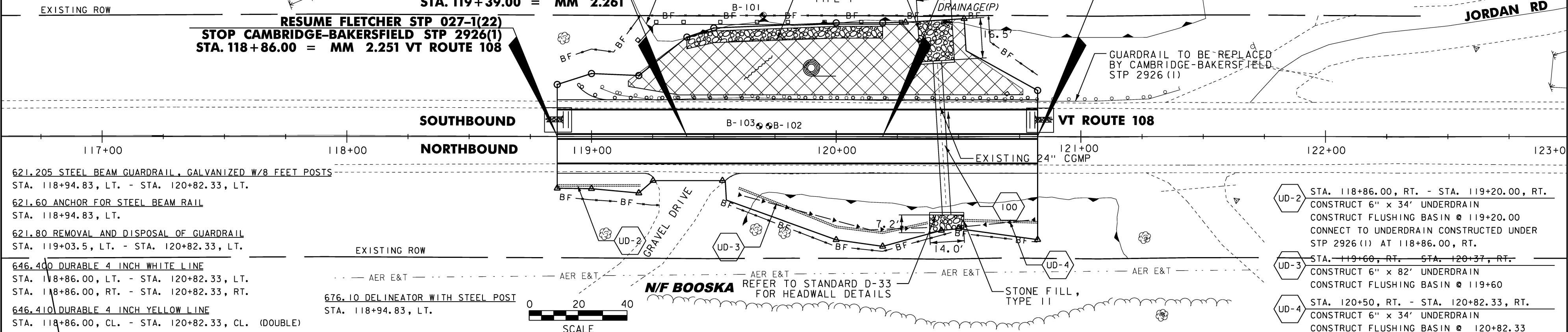
1) PIPE OPTION 1 SHALL BE THE CONTRACTORS OPTION FOR EITHER CAAP OR PCCSP

100 STA. 120+41.0, LT. - STA. 120+45.0, RT.  
 CONSTRUCT 42" x 64' PIPE OPTION 1  
 CONSTRUCT HEADWALL @ INLET AND OUTLET  
 CONSTRUCT STONE FILL TYPE II INLET AND OUTLET PROTECTION  
 INVERT IN = 457.87  
 INVERT OUT = 454.48

1 NEWBURY III, GEORGE END FULL DEPTH CONSTRUCTION  
 STA. 120+19.00 = MM 2.276

END FLETCHER STP 027-1(22)  
 RESUME CAMBRIDGE-BAKERSFIELD STP 2926(1)  
 STA. 120+82.33 = MM 2.288 VT ROUTE 108

BEGIN FULL DEPTH CONSTRUCTION  
 STA. 119+39.00 = MM 2.261  
 RESUME FLETCHER STP 027-1(22)  
 STOP CAMBRIDGE-BAKERSFIELD STP 2926(1)  
 STA. 118+86.00 = MM 2.251 VT ROUTE 108



- 621.205 STEEL BEAM GUARDRAIL, GALVANIZED W/8 FEET POSTS  
 STA. 118+94.83, LT. - STA. 120+82.33, LT.
- 621.60 ANCHOR FOR STEEL BEAM RAIL  
 STA. 118+94.83, LT.
- 621.80 REMOVAL AND DISPOSAL OF GUARDRAIL  
 STA. 119+03.5, LT. - STA. 120+82.33, LT.
- 646.400 DURABLE 4 INCH WHITE LINE  
 STA. 118+86.00, LT. - STA. 120+82.33, LT.  
 STA. 118+86.00, RT. - STA. 120+82.33, RT.
- 646.410 DURABLE 4 INCH YELLOW LINE  
 STA. 118+86.00, CL. - STA. 120+82.33, CL. (DOUBLE)

- UD-2 STA. 118+86.00, RT. - STA. 119+20.00, RT.  
 CONSTRUCT 6" x 34" UNDERDRAIN  
 CONSTRUCT FLUSHING BASIN @ 119+20.00  
 CONNECT TO UNDERDRAIN CONSTRUCTED UNDER  
 STP 2926(1) AT 118+86.00, RT.
- UD-3 STA. 119+60, RT. - STA. 120+37, RT.  
 CONSTRUCT 6" x 82' UNDERDRAIN  
 CONSTRUCT FLUSHING BASIN @ 119+60
- UD-4 STA. 120+50, RT. - STA. 120+82.33, RT.  
 CONSTRUCT 6" x 34" UNDERDRAIN  
 CONSTRUCT FLUSHING BASIN @ 120+82.33

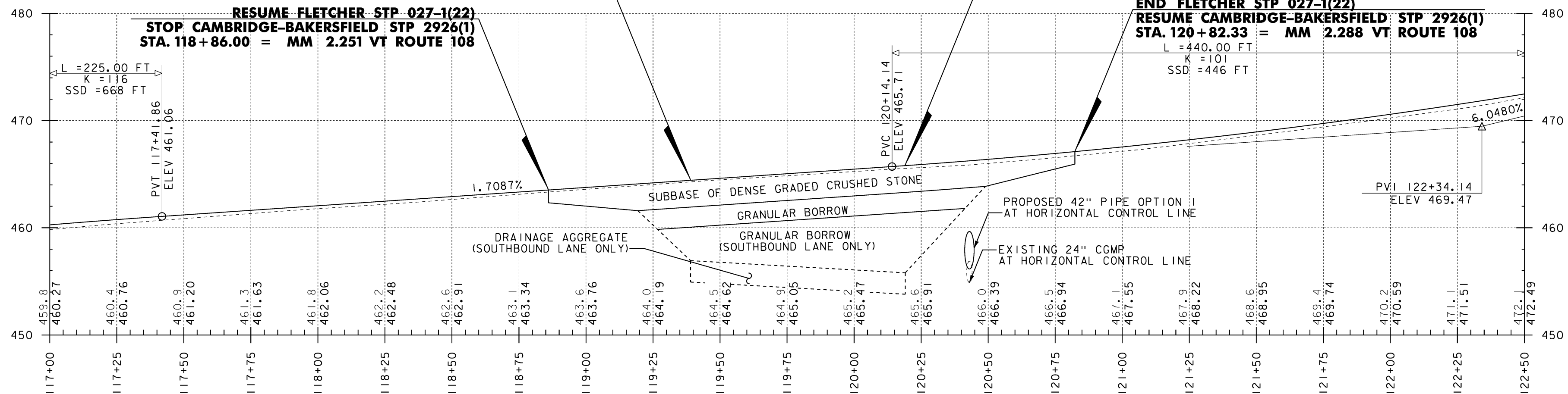
BEGIN FULL DEPTH CONSTRUCTION  
 STA. 119+39.00 = MM 2.261

END FULL DEPTH CONSTRUCTION  
 STA. 120+19.00 = MM 2.276

RESUME FLETCHER STP 027-1(22)  
 STOP CAMBRIDGE-BAKERSFIELD STP 2926(1)  
 STA. 118+86.00 = MM 2.251 VT ROUTE 108

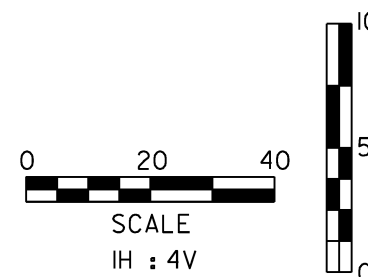
END FLETCHER STP 027-1(22)  
 RESUME CAMBRIDGE-BAKERSFIELD STP 2926(1)  
 STA. 120+82.33 = MM 2.288 VT ROUTE 108

L = 440.00 FT  
 K = 101  
 SSD = 446 FT



LINES SHOWN ON THIS PLAN AS EXISTING PROPERTY LINES P/L ARE BELIEVED TO BE ACCURATE BUT SHOULD NOT BE RELIED UPON FOR PURPOSES UNRELATED TO THE STATE OF VERMONT'S ACQUISITION OF LAND AND RIGHTS FOR THIS PROJECT.

FOR R.O.W. USE ONLY

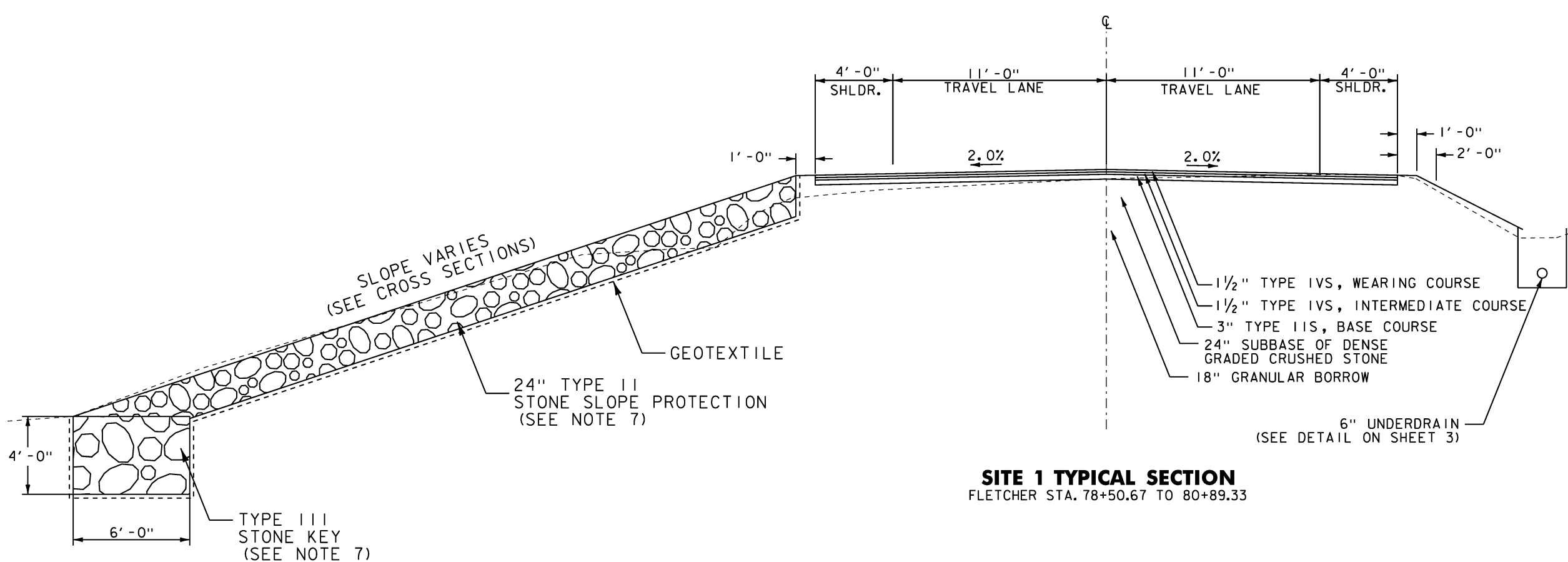


PROJECT NAME: FLETCHER  
 PROJECT NUMBER: STP 027-1(22)

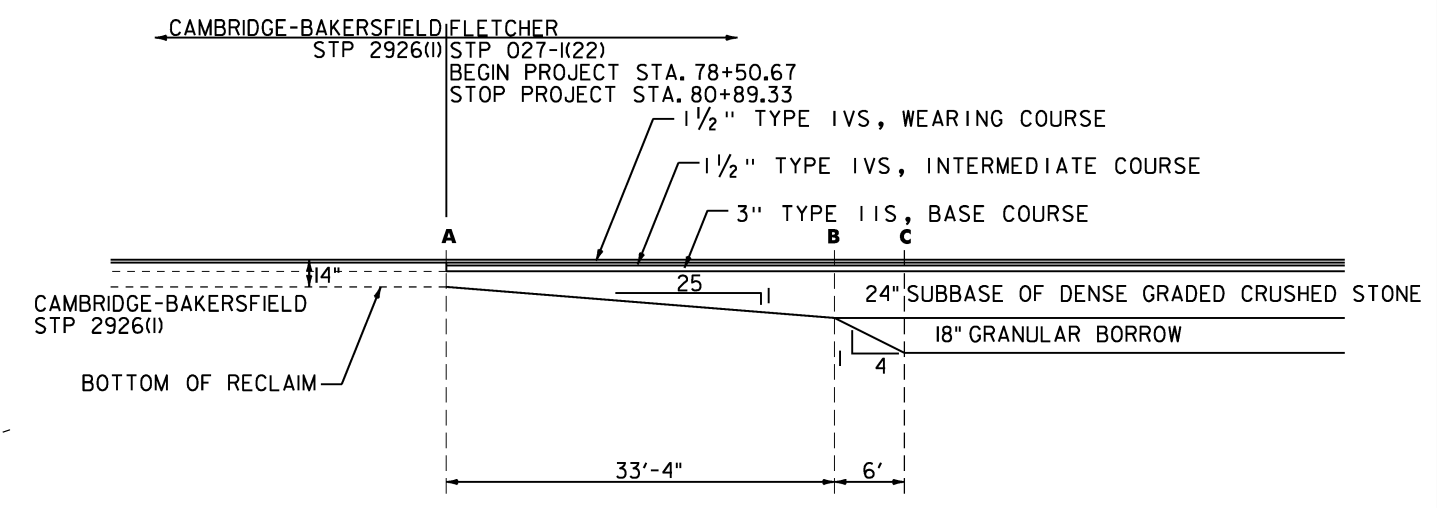
FILE NAME: r1lb064.lay2.dgn  
 PROJECT LEADER: K. ROBE  
 DESIGNED BY: STANTEC  
 ROW PLAN-PROFILE SHEET 2 OF 2

PLOT DATE: 22-AUG-2012  
 DRAWN BY: J. BLANCHARD  
 CHECKED BY: H. PETROVS  
 SHEET 4 OF 6

| MATERIAL ITEM                  | THICKNESS TOLERANCE |
|--------------------------------|---------------------|
| PAVEMENT COURSES (TOTAL DEPTH) | + 1/4"              |
| BASE COURSES (TOTAL DEPTH)     | +/- 1"              |
| SUBBASE                        | +/- 1"              |

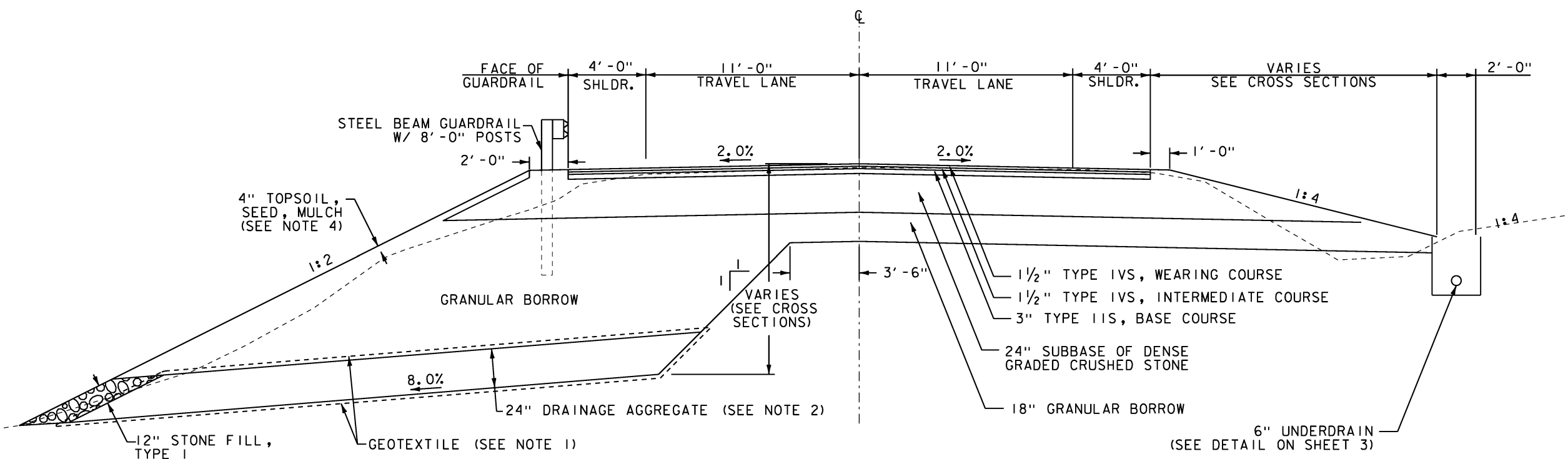


**SITE 1 TYPICAL SECTION**  
FLETCHER STA. 78+50.67 TO 80+89.33

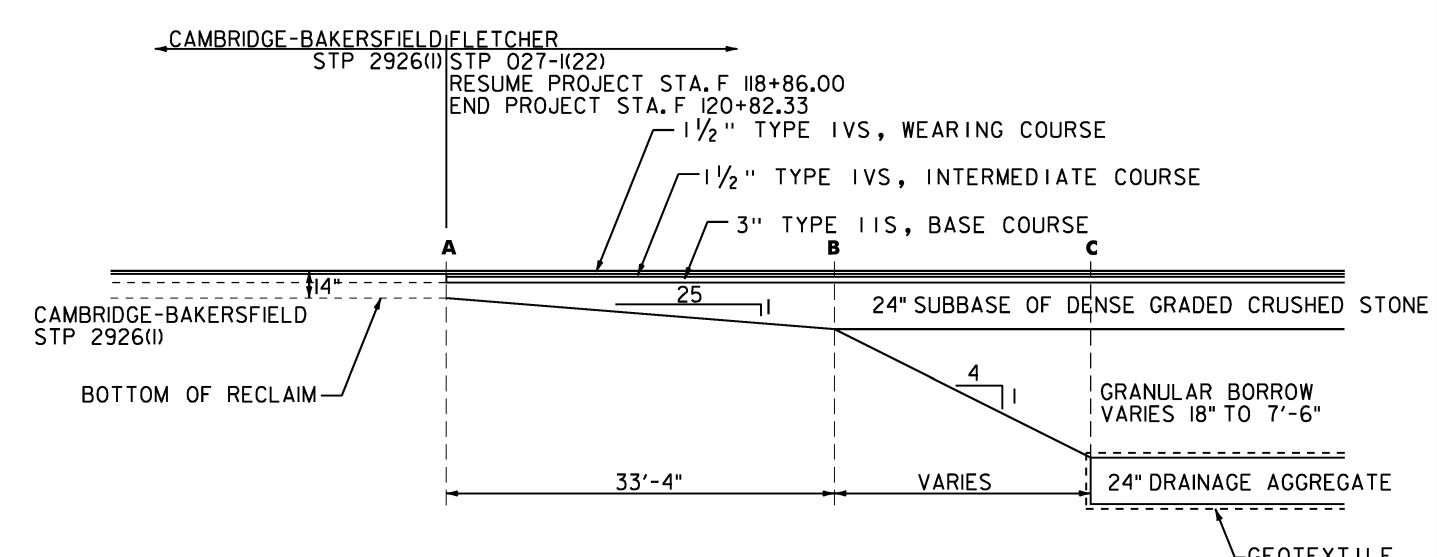


|                             | A        | B        | C        |
|-----------------------------|----------|----------|----------|
| VT ROUTE 108 SOUTH APPROACH | 78+50.67 | 78+84.00 | 78+90.00 |
| VT ROUTE 108 NORTH APPROACH | 80+89.33 | 80+56.00 | 80+50.00 |

**SITE 1 SUBBASE & PAVEMENT TRANSITION DETAIL**



**SITE 2 TYPICAL SECTION**  
FLETCHER STA. 118+86.00 TO 120+82.33



|                             | A         | B         | C         |
|-----------------------------|-----------|-----------|-----------|
| VT ROUTE 108 SOUTH APPROACH | 118+86.00 | 119+19.33 | 119+39.00 |
| VT ROUTE 108 NORTH APPROACH | 120+82.33 | 120+49.00 | 120+19.00 |

**SITE 2 SUBBASE & PAVEMENT TRANSITION DETAIL**

- NOTES:
1. GEOTEXTILE TO BE PAID AS ITEM 649.31 GEOTEXTILE UNDER STONE FILL. GEOTEXTILE SHALL FULLY WRAP AROUND DRAINAGE AGGREGATE. REFER TO VTRANS STANDARD SPECIFICATIONS FOR MINIMUM OVERLAP.
  2. DRAINAGE AGGREGATE TO BE PAID AS ITEM 900.608 - SPECIAL PROVISION (DRAINAGE AGGREGATE FOR TOE DRAIN).
  3. GRANULAR BORROW TO BE PAID AS ITEM 203.32 GRANULAR BORROW. MATERIAL SHALL MEET THE REQUIREMENTS OF SECTION 704.03.
  4. TOPSOIL, SEED AND MULCH TO BE APPLIED AS DIRECTED BY THE RESIDENT ENGINEER.
  5. EDGES OF NEW PAVEMENT SHALL INCLUDE A SAFETY EDGE AS SHOWN ON SHEET 3.
  6. EMULSIFIED ASPHALT TYPE CRS-1H OR RS-1H SHALL BE APPLIED AS A TACK COAT BETWEEN COURSE OF SUPERPAVE BITUMINOUS CONCRETE PAVEMENT AT A RATE OF 0.025 TO 0.04 GAL/SY. BOTH APPLICATIONS WILL BE PAID UNDER ITEM 900.683 SPECIAL PROVISION (EMULSIFIED ASPHALT) (RS-1H OR CRS-1H).
  7. EXCAVATION FOR STONE SLOPE PROTECTION AND STONE KEY SHALL BE PAID AS ITEM 203.15 COMMON EXCAVATION.

NOT TO SCALE

|                               |                          |
|-------------------------------|--------------------------|
| PROJECT NAME: FLETCHER        | PLOT DATE: 01-AUG-2012   |
| PROJECT NUMBER: STP 027-I(22) | DRAWN BY: STANTEC        |
| FILE NAME: r11b064_typ.dgn    | CHECKED BY: J. BLANCHARD |
| PROJECT LEADER: K. ROBBIE     | SHEET 5 OF 6             |
| DESIGNED BY: ISM              |                          |
| PROJECT TYPICAL SHEET         |                          |

GPS CONTROL POINTS

HVCTRL #1

BAKE I  
 NORTH = 816328.366  
 EAST = 1555864.797  
 ELEV. = 528.611

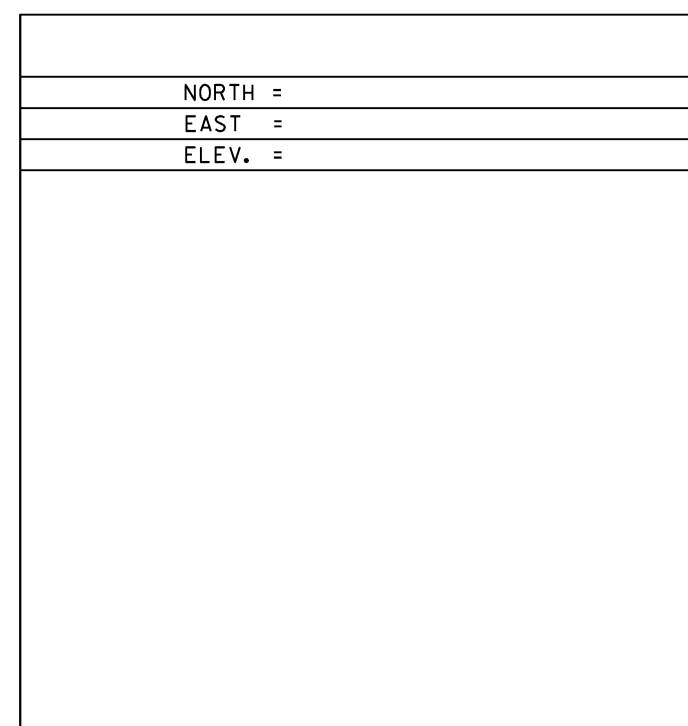
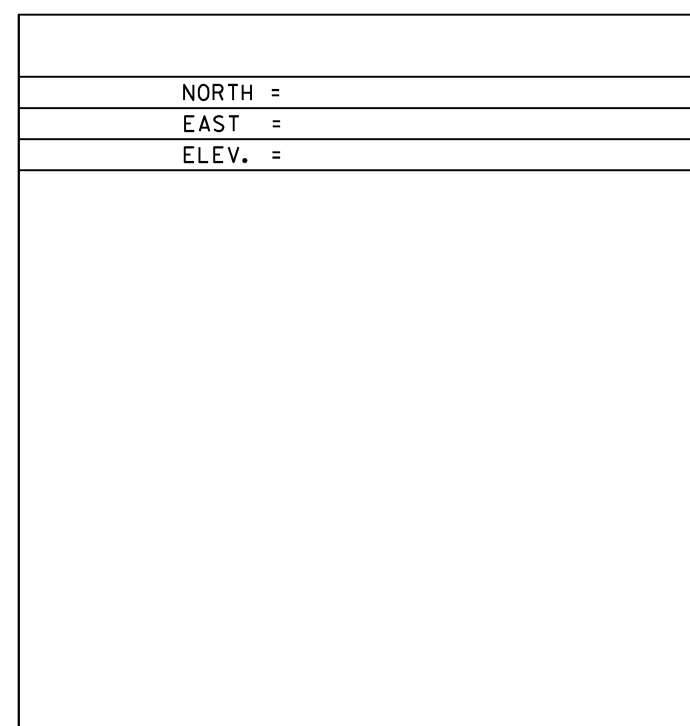
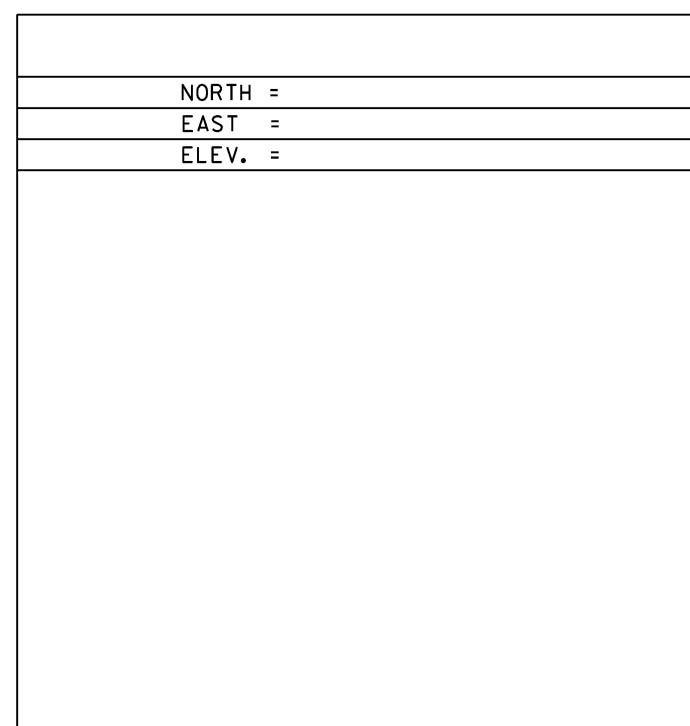
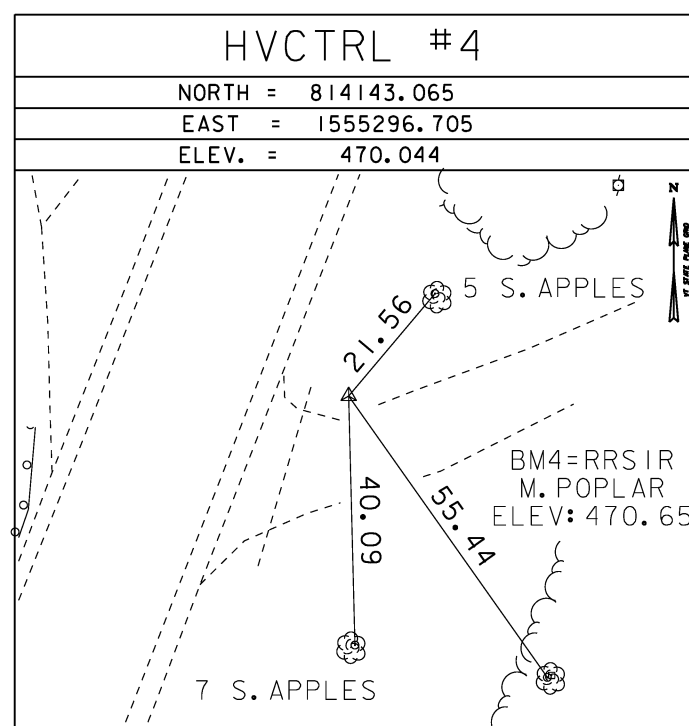
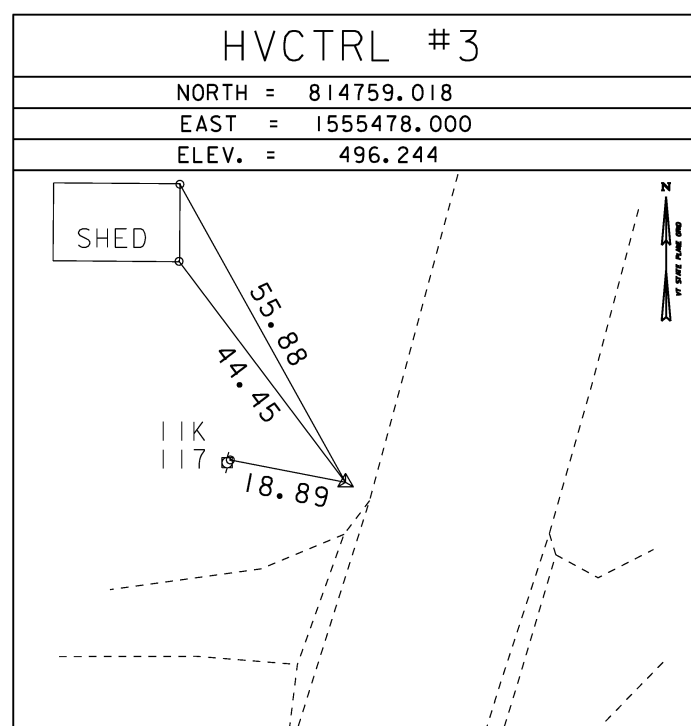
HVCTRL #2

FLETCH  
 NORTH = 813679.320  
 EAST = 1555053.772  
 ELEV. = 460.898

TO REACH FROM THE INTERSECTION OF VT ROUTES 36 AND 108 IN BAKERSFIELD, GO SOUTH ALONG VT ROUTE 108 FOR 1.7 MI (2.7 KM) TO THE INTERSECTION OF WHITNEY ROAD RIGHT. CONTINUE SOUTH ALONG VT ROUTE 108 FOR 1.5 MI (2.4 KM) TO THE SITE OF THE MARK ON THE RIGHT. IT IS ABOUT 37 M (121.4 FT) NORTH OF JORDAN ROAD RIGHT AND MILE MARKER POST 1080/0601/0038. THE MARK IS SET 10 CM (4 INCHES) BELOW GROUND SURFACE IN THE TOP OF A FENO STYLE MONUMENT. IT IS 7.0 M (23.0 FT) NORTHWEST OF AND ABOUT 0.1 M (0.3 FT) HIGHER THAN THE CENTERLINE OF VT ROUTE 108, 13.7 M (44.9 FT) SOUTH-SOUTHWEST OF POLE NO 14, 14.6 M (47.9 FT) SOUTH-SOUTHWEST OF MAILBOX NO 3275, 33.1 M (108.6 FT) NORTHEAST OF POLE NO 6/71 AND 0.3 M (1.0 FT) SOUTHEAST OF A FIBERGLASS WITNESS POST

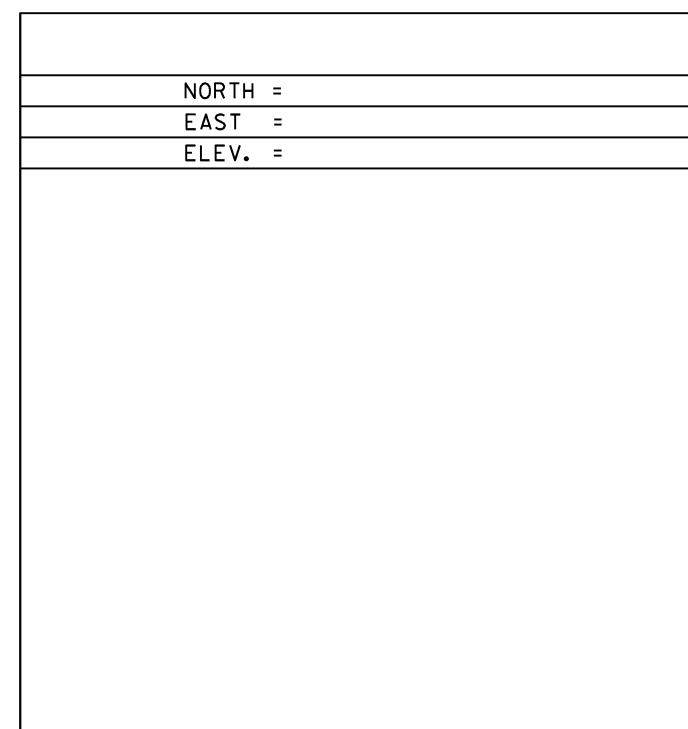
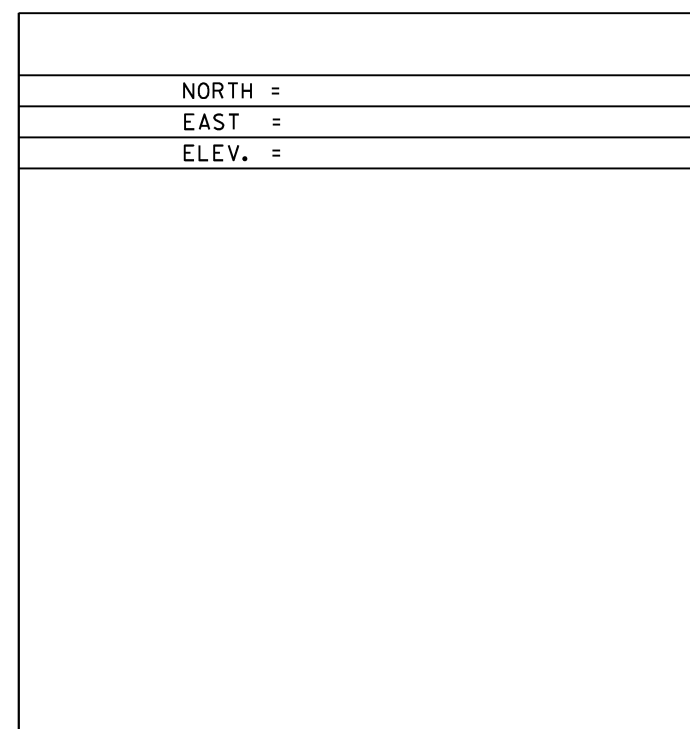
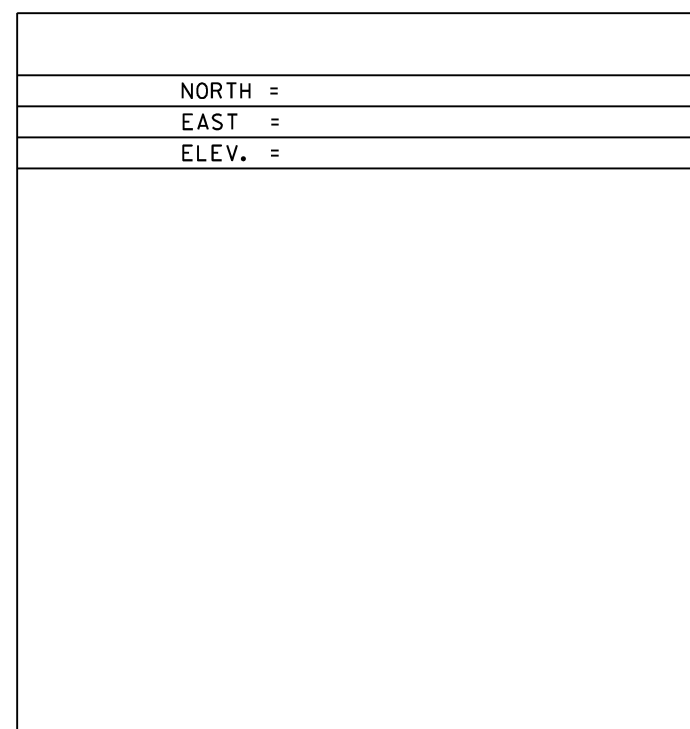
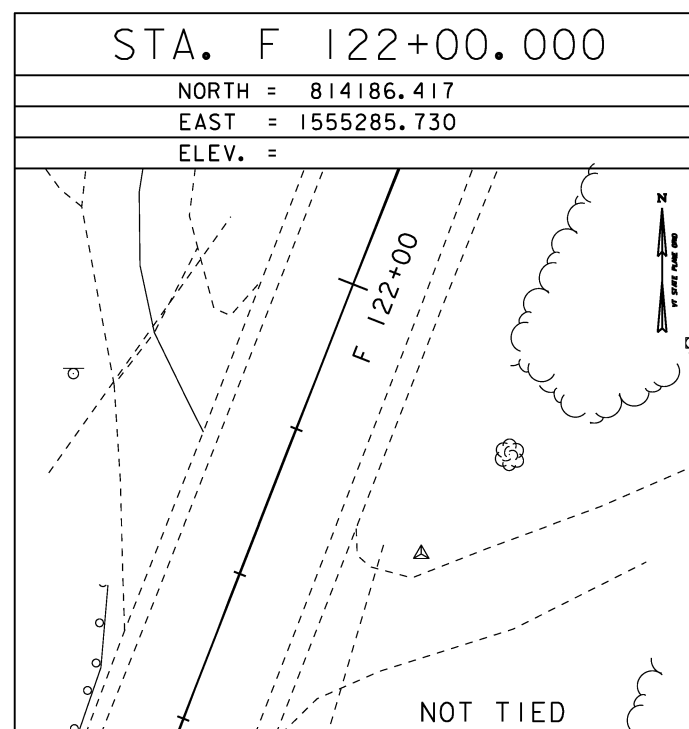
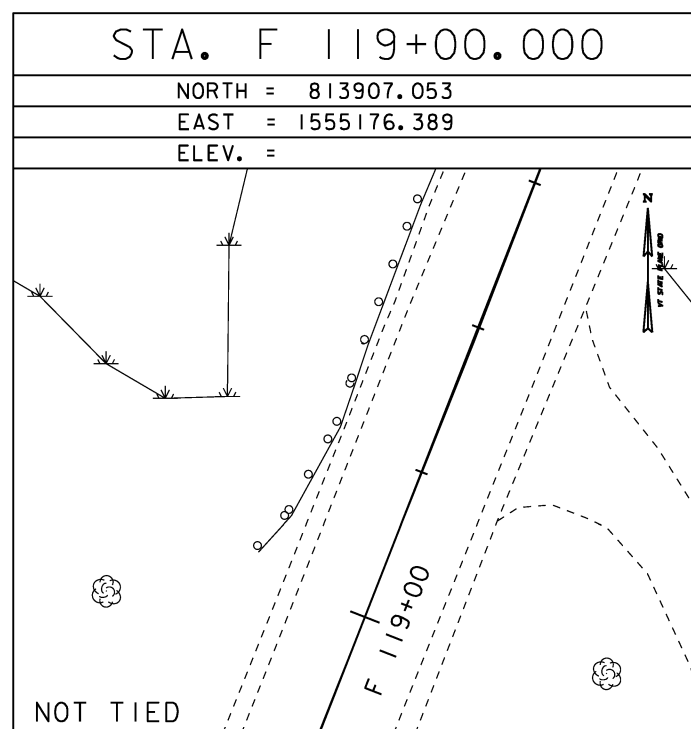
TO REACH FROM THE INTERSECTION OF VT ROUTES 36 AND 108 IN BAKERSFIELD, GO SOUTH ALONG VT ROUTE 108 FOR 1.7 MI (2.7 KM) TO THE INTERSECTION OF WHITNEY ROAD RIGHT. CONTINUE SOUTH ALONG VT ROUTE 108 FOR 2.0 MI (3.2 KM) TO THE SITE OF THE MARK ON THE RIGHT. THE MARK IS SET 25 CM (10 INCHES) BELOW GROUND SURFACE IN THE TOP OF A FENO STYLE MONUMENT. IT IS 9.4 M (30.8 FT) NORTHWEST OF AND ABOUT 1.0 M (3.3 FT) HIGHER THAN THE CENTERLINE OF VT ROUTE 108, 16.1 M (52.8 FT) NORTH-NORTHEAST OF MILE MARKER POST 1080/0606/0220, 30.4 M (99.7 FT) WEST OF AND ACROSS THE ROAD FROM POLE NO 11K/114/77 WITH TRANSFORMER, 80.0 M (262.5 FT) SOUTHWEST OF THE SOUTHWEST END POST OF A METAL GUARD RAIL AND 0.4 M (1.3 FT) SOUTHEAST OF A FIBERGLASS WITNESS POST.

TRAVERSE TIES



\*MAIN TRAVERSE COMPLETED 8/8/2011 BY L. ORVIS P.C. & R. CAULK

ALIGNMENT TIES



|            |             |
|------------|-------------|
| DATUM      |             |
| VERTICAL   | NAVD 88     |
| HORIZONTAL | NAD 83 (07) |
| ADJUSTMENT | NONE        |

|                               |                        |
|-------------------------------|------------------------|
| PROJECT NAME: FLETCHER        |                        |
| PROJECT NUMBER: STP 027-(122) |                        |
| FILE NAME: r1lb064_tie.dgn    | PLOT DATE: 01-AUG-2012 |
| PROJECT LEADER: K. ROBIE      | DRAWN BY:              |
| DESIGNED BY: STANTEC          | CHECKED BY: H. PETROVS |
| PROJECT TIE SHEET             | SHEET 6 OF 6           |