# EARTHWORK SHEET

STATE OF VERMONT
AGENCY OF TRANSPORTATION

| V.C. | % GRADE | STATION | ELEVATION ON TANGENT | ELEVATION ON CURVES | CORR. V.C. | DIST. | TOTAL EXCAVATION EARTH AND ROCK AREA | TOTAL EXCAVATION EARTH AND ROCK CU. YDS. | ROCK EXCAVATION AREA | ROCK EXCAVATION CU. YDS. | EMBANKMENT AREA | EMBANKMENT CU. YDS. | AREA | CU. YDS. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | -2.5089 % | | | | | | | | | | | | | |
| | | 227+02.75 | 796.86 | 797.90 | +1.04 | | | | | | 408 | | | |
| | | +50 | 795.87 | 797.45 | +1.78 | 50.05 | | | | | | 1066 | | |
| | | +52.80 | 795.60 | 797.42 | +1.82 | | | | | | 742 | | | |
| VC = 500' K = 113 | | 228+00 | 794.42 | 797.19 | +2.77 | 50.06 | | | | | | 1474 | | |
| | | +02.86 | 794.48 | 797.19 | +2.71 | | | | | | 848 | | | |
| | | +50 | 795.38 | 797.16 | +1.78 | 50.05 | | | | | | 1522 | | |
| | | +52.91 | 795.44 | 797.16 | +1.72 | | | | | | 794 | | | |
| | | 229+00 | 796.35 | 797.35 | +1.00 | 50.06 | | | | | | 1268 | C | 862 |
| | | +02.97 | 796.41 | 797.37 | +0.96 | | | | | | 574 | | R | 0 |
| | | +50 | 797.32 | 797.76 | +0.44 | 50.06 | | | | | | 757 | F | 6398 |
| | | +53.03 | 797.37 | 797.79 | +0.42 | | 0 | | | | 243 | | FAC | 1.15 |
| | | 230+00 | 798.28 | 798.39 | +0.11 | 50.05 | | 34 | | | | 267 | | |
| | | +03.08 | 798.34 | 798.44 | +0.10 | | 37 | | | | 45 | | EXF | 6496 |
| | | +50 | 799.24 | 799.24 | 0 | 50.06 | | 134 | | | | 42 | | |
| | +1.9300 % | +53.14 | 799.30 | 799.30 | 0 | | 108 | | | | 0 | | | |
| | | 231+00 | 800.21 | 800.11 | −0.10 | 50.05 | | 210 | | | | 1 | | |
| | | +03.19 | 800.27 | 800.16 | −0.11 | | 119 | | | | 1 | | | |
| | | +50 | 801.18 | 800.79 | −0.39 | 50.06 | | 214 | | | | 1 | | |
| | | +53.25 | 801.24 | 800.84 | −0.40 | | 112 | | | | 0 | | | |
| | | 232+00 | 802.14 | 801.28 | −0.86 | 50.06 | | 270 | | | | | | |
| | | +03.31 | 802.20 | 801.31 | −0.89 | | 179 | | | | 0 | | | |
| | | +50 | 803.10 | 801.58 | −1.52 | 50.05 | | 285 | | | | 2 | | |
| | | +53.36 | 803.17 | 801.60 | −1.57 | | 128 | | | | 2 | | | |
| | | 233+00 | 804.07 | 801.69 | −2.38 | 50.06 | | 261 | | | | 4 | | |
| | | +03.42 | 804.14 | 801.70 | −2.44 | | 154 | | | | 2 | | | |
| | | +50 | 805.04 | 801.61 | −3.43 | 50.04 | | 293 | | | | 4 | | |
| | | +53.46 | 805.10 | 801.60 | −3.50 | | 162 | | | | 2 | | | |
| VC = 700' SSD = 418' | | 234+00 | 806.00 | 801.34 | −4.66 | 50.00 | | 313 | | | | 22 | C | 2181 |
| | | +03.46 | 805.88 | 801.31 | −4.57 | | 176 | | | | 22 | | R | 0 |
| | | +50 | 804.30 | 800.87 | −3.43 | 50.01 | | 324 | | | | 102 | F | 2556 |
| | | +53.47 | 804.18 | 800.83 | −3.35 | | 174 | | | | 88 | | FAC | 1.15 |
| | | 235+00 | 802.60 | 800.22 | −2.38 | 50.04 | | 287 | | | | 194 | | |
| | | +03.51 | 802.48 | 800.17 | −2.31 | | 136 | | | | 121 | | EXF | 758 |
| | | +50 | 800.90 | 799.38 | −1.52 | 50.37 | | 235 | | | | 326 | | |
| | | +53.88 | 800.77 | 799.31 | −1.46 | | 116 | | | | 228 | | | |
| | | 236+00 | 799.20 | 798.34 | −0.86 | 50.91 | | 146 | | | | 548 | | |
| | | +04.79 | 799.04 | 798.24 | −0.80 | | 39 | | | | 353 | | | |
| | | +50 | 797.50 | 797.12 | −0.38 | 50.78 | | 37 | | | | 693 | | |
| | | +55.57 | 797.31 | 796.97 | −0.34 | | 0 | | | | 384 | | | |
| | -3.4000 % | 237+00 | 795.80 | 795.70 | −0.10 | 50.68 | | | | | | 661 | | |
| | | +06.25 | 795.59 | 795.52 | −0.07 | | | | | | 320 | | | |
| | | +50 | 794.10 | 794.10 | 0 | 50.58 | | | | | | 545 | | |
| | | +56.83 | 793.87 | 793.87 | 0 | | | | | | 262 | | | |
| | | 238+00 | 792.40 | 792.51 | +0.11 | 50.48 | | | | | | 467 | | |
| | | +07.31 | 792.15 | 792.29 | +0.14 | | | | | | 238 | | | |
| | | +50 | 790.70 | 791.14 | +0.44 | 50.39 | | | | | | 667 | | |
| | | +57.70 | 790.44 | 790.95 | +0.51 | | | | | | 477 | | | |
| | | 239+00 | 789.00 | 789.99 | +0.99 | 50.31 | | | | | | 626 | C | 1160 |
| | | +08.01 | 788.73 | 789.83 | +1.10 | | | | | | 195 | | R | 0 |
| | | +50 | 787.30 | 789.06 | +1.76 | 50.24 | | | | | | 258 | F | 2654 |
| | | +58.25 | 787.02 | 788.92 | +1.90 | | 0 | | | | 82 | | FAC | 1.15 |
| VC = 500' K = 114 | | 240+00 | 785.60 | 788.34 | +2.74 | 50.35 | | 21 | | | | 84 | | |
| | | +08.60 | 785.68 | 788.24 | +2.56 | | 23 | | | | 8 | | EXF | 1892 |
| | | +50 | 786.10 | 787.85 | +1.75 | 49.94 | | 105 | | | | 7 | | |
| | | +58.54 | 786.18 | 787.79 | +1.61 | | 90 | | | | 0 | | | |
| | | 241+00 | 786.59 | 787.58 | +0.99 | 50.06 | | 187 | | | | | | |
| | | +08.60 | 786.68 | 787.56 | +0.88 | | 112 | | | | | | | |
| | | +50 | 787.08 | 787.52 | +0.44 | 50.02 | | 317 | | | | | | |
| | | +58.62 | 787.17 | 787.54 | +0.37 | | 230 | | | | | | | |
| | +0.9900 % | 242+00 | 787.58 | 787.69 | +0.11 | 49.98 | | 530 | | | | | | |
| | | +08.60 | 787.66 | 787.74 | +0.08 | | 343 | | | | | | | |
| | | CARRIED FORWARD | | | | | | | | | | | | |
| | | COLUMN FOOTING | | | | | | 4203 | | 0 | | 11608 | | |

| V.C. | % GRADE | STATION | ELEVATION ON TANGENT | ELEVATION ON CURVES | CORR. V.C. | DIST. | TOTAL EXCAVATION EARTH AND ROCK AREA | TOTAL EXCAVATION EARTH AND ROCK CU. YDS. | ROCK EXCAVATION AREA | ROCK EXCAVATION CU. YDS. | EMBANKMENT AREA | EMBANKMENT CU. YDS. | AREA | CU. YDS. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 242+08.60 | 787.66 | 787.74 | +0.08 | | 343 | | | | | | | |
| | | +50 | 788.08 | 788.08 | 0 | 49.96 | | 649 | | | | | | |
| | | +58.56 | 788.16 | | | | 358 | | | | | | | |
| | | 243+00 | 788.57 | | | 49.93 | | 608 | | | | | | |
| | | +08.49 | 788.65 | | | | 300 | | | | | | | |
| | +0.9900 % | +50 | 789.06 | | | 49.92 | | 634 | | | | | | |
| | | +58.41 | 789.15 | | | | 386 | | | | | | | |
| | | 244+00 | 789.56 | | | 49.92 | | 529 | | | | | C | 4445 |
| | | +08.33 | 789.64 | | | | 186 | | | | | | R | 0 |
| | | +50 | 790.06 | | | 49.92 | | 351 | | | | | F | 62 |
| | | +58.25 | 790.14 | | | | 194 | | | | | | FAC | 1.15 |
| | | 245+00 | 790.55 | | | 49.93 | | 365 | | | | | | |
| | | +08.18 | 790.63 | | | | 201 | | | | | 0 | | EXC 4374 |
| | | +50 | 791.04 | | | 49.95 | | 339 | | | | 7 | | |
| | | +58.13 | 791.12 | | | | 165 | | | | | 8 | | |
| | | 246+00 | 791.54 | | | 49.97 | | 341 | | | | 13 | | |
| | | +08.10 | 791.62 | | | | 203 | | | | | 6 | | |
| | | +50 | 792.04 | | | 50.00 | | 356 | | | | 20 | | |
| | | +58.10 | 792.12 | 792.12 | 0 | | 182 | | | | | 16 | | |
| | | 246+61.11 | (BK) = | | | 41.90 | | 273 | | | | 22 | | |
| | | 246+53.01 | (AH) | EQ=+8.10 | | | | | | | | | | |
| | | 247+00 | 792.61 | 792.56 | −0.05 | | 170 | | | | | 12 | | |
| | | | | | | 50 | | 288 | | | | 19 | | |
| | | +50 | 793.10 | 792.91 | −0.19 | | 141 | | | | | 9 | | |
| | | | | | | 50 | | 194 | | | | 30 | | |
| | | 248+00 | 793.60 | 793.16 | −0.44 | | 68 | | | | | 23 | | |
| | | | | | | 50 | | 99 | | | | 60 | | |
| VC = 500' SSD = 591' | | +50 | 794.10 | 793.32 | −0.78 | | 39 | | | | | 42 | | |
| | | | | | | 50 | | 56 | | | | 75 | C | 679 |
| | | 249+00 | 794.59 | 793.37 | −1.22 | | 22 | | | | | 39 | R | 0 |
| | | | | | | 50 | | 31 | | | | 105 | F | 3290 |
| | | +50 | 794.11 | 793.33 | −0.78 | | 12 | | | | | 74 | FAC | 1.15 |
| | | | | | | 50 | | 11 | | | | 267 | | |
| | | 250+00 | 793.63 | 793.19 | −0.44 | | 0 | | | | | 214 | | EXF 3104 |
| | | | | | | 50 | | | | | | 567 | | |
| | | +50 | 793.15 | 792.96 | −0.19 | | | | | | | 398 | | |
| | | | | | | 50 | | | | | | 670 | | |
| | -0.9600 % | 251+00 | 792.67 | 792.62 | −0.05 | | | | | | | 326 | | |
| | | | | | | 50 | | | | | | 631 | | |
| | | +50 | 792.19 | 792.19 | 0 | | | | | | | 356 | | |
| | | | | | | 50 | | | | | | 866 | | |
| | | 252+00 | 791.71 | 791.78 | +0.07 | | | | | | | 579 | | |
| | | +50 | 791.23 | 791.50 | +0.27 | 50.02 | | | | | | 1049 | | |
| | | +50.02 | 791.23 | 791.50 | +0.27 | | 0 | | | | | 553 | | |
| | | 253+00 | 790.75 | 791.36 | +0.61 | 50.11 | | 19 | | | | 1011 | | |
| | | +00.13 | 790.75 | 791.36 | +0.61 | | 20 | | | | | 537 | | |
| | | +50 | 790.27 | 791.35 | +1.08 | 50.29 | | 53 | | | | 877 | | |
| | | +50.42 | 790.27 | 791.35 | +1.08 | | 37 | | | | | 405 | | |
| VC = 500' K = 185 | | 254+00 | 789.79 | 791.48 | +1.69 | 50.40 | | 36 | | | | 908 | | |
| | | +00.82 | 789.84 | 791.49 | +1.65 | | 2 | | | | | 568 | | C 110 |
| | | +50 | 790.67 | 791.75 | +1.08 | 50.41 | | 2 | | | | 1065 | R | 0 |
| | | +51.23 | 790.69 | 791.76 | +1.07 | | 0 | | | | | 573 | F | 9025 |
| | | 255+00 | 791.54 | 792.15 | +0.61 | 50.43 | | | | | | 1046 | FAC | 1.15 |
| | | +01.66 | 791.57 | 792.17 | +0.60 | | | | | | | 547 | | |
| | | +50 | 792.42 | 792.69 | +0.27 | 50.44 | | | | | | 912 | EXF | 10269 |
| | | +52.10 | 792.45 | 792.71 | +0.26 | | | | | | | 429 | | |
| | | 256+00 | 793.29 | 793.36 | +0.07 | 50.43 | | | | | | 773 | | |
| | | +02.53 | 793.33 | 793.40 | +0.07 | | | | | | | 399 | | |
| | + 1.7501 % | +50 | 794.17 | 794.17 | 0 | 50.42 | | | | | | 699 | | |
| | | +52.95 | 794.22 | | | | | | | | | 350 | | |
| | | 257+00 | 795.04 | | | 50.40 | | | | | | 685 | | |
| | | +03.35 | 795.10 | | | | | | | | | 384 | | |
| | | CARRIED FORWARD | | | | | | | | | | | | |
| | | COLUMN FOOTING | | | | | | 5234 | | 0 | | 12377 | | |

| V.C. | % GRADE | STATION | ELEVATION ON TANGENT | ELEVATION ON CURVES | CORR. V.C. | DIST. | TOTAL EXCAVATION EARTH AND ROCK AREA | TOTAL EXCAVATION EARTH AND ROCK CU. YDS. | ROCK EXCAVATION AREA | ROCK EXCAVATION CU. YDS. | EMBANKMENT AREA | EMBANKMENT CU. YDS. | AREA | CU. YDS. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 257+03.35 | 795.10 | | | | | | | | 384 | | | |
| | | +50 | 795.92 | | | 50.35 | | | | | | 720 | | |
| | | +53.70 | 795.98 | | | | 0 | | | | 388 | | | |
| | | 258+00 | 796.79 | | | 50.15 | | 42 | | | | 785 | | |
| | | +03.85 | 796.86 | | | | 45 | | | | 457 | | | |
| | | +50 | 797.67 | | | 50.03 | | 105 | | | | 691 | | |
| | | +53.88 | 797.73 | | | | 68 | | | | 289 | | | |
| | | 258+68.55 | (BK) = | | | 46.12 | | 181 | | | | 424 | | |
| | | 258+64.67 | (AH) | EQ=+3.88' | | | | | | | | | | |
| | | 259+00 | 798.61 | | | | 144 | | | | 207 | | C | 2667 |
| | | | | | | 50 | | 326 | | | | 248 | R | 0 |
| | | +50 | 799.48 | | | | 208 | | | | 61 | | F | 3069 |
| | | | | | | 50 | | 411 | | | | 122 | FAC | 1.15 |
| | +1.7501 % | 260+00 | 800.36 | | | | 236 | | | | 71 | | | |
| | | | | | | 50 | | 453 | | | | 66 | EXF | 862 |
| | | +50 | 801.23 | | | | 253 | | | | 0 | | | |
| | | | | | | 50 | | 466 | | | | | | |
| | | 261+00 | 802.11 | | | | 250 | | | | | | | |
| | | | | | | 50 | | 390 | | | | | | |
| | | +50 | 802.98 | | | | 171 | | | | 0 | | | |
| | | | | | | 50.03 | | 293 | | | | 13 | | |
| | | 262+00 | 803.86 | | | | | | | | | | | |
| | | +00.03 | 803.86 | | | | 145 | | | | 14 | | | |
| | | +50 | 804.73 | | | 50.06 | | 142 | | | | 331 | | |
| | | +50.09 | 804.74 | | | | 8 | | | | 343 | | | |
| | | 263+00 | 805.61 | | | 50.08 | | 25 | | | | 554 | | |
| | | +00.17 | 805.61 | | | | 19 | | | | 254 | | | |
| | | +50 | 806.48 | | | 50.11 | | 35 | | | | 296 | | |
| | | +50.28 | 806.49 | | | | 19 | | | | 65 | | | |
| | | 264+00 | 807.36 | | | 50.14 | | 46 | | | | 117 | | |
| | | +00.42 | 807.37 | | | | 31 | | | | 61 | | C | 1305 |
| | | +50 | 808.23 | | | 50.16 | | 67 | | | | 77 | R | 0 |
| | | +50.58 | 808.24 | | | | 41 | | | | 22 | | F | 1443 |
| | | 265+00 | 809.11 | 809.11 | 0 | 50.19 | | 98 | | | | 29 | FAC | 1.15 |
| | | +00.77 | 809.12 | 809.12 | −0.00 | | 64 | | | | 9 | | | |
| | | +50 | 809.98 | 809.88 | −0.10 | 50.23 | | 158 | | | | 9 | EXF | 354 |
| | | +51.00 | 810.00 | 809.90 | −0.10 | | 106 | | | | 1 | | | |
| | | 266+00 | 810.86 | 810.45 | −.041 | 50.08 | | 202 | | | | 2 | | |
| | | +01.08 | 810.88 | 810.46 | −0.42 | | 112 | | | | 1 | | | |
| | | +50 | 811.73 | 810.81 | −0.92 | 50.03 | | 258 | | | | 1 | | |
| | | +51.11 | 811.75 | 810.81 | −0.94 | | 166 | | | | 0 | | | |
| | | 267+00 | 812.61 | 810.96 | −1.65 | 50.03 | | 274 | | | | 27 | | |
| | | +01.14 | 812.63 | 810.96 | −1.67 | | 130 | | | | 29 | | | |
| | | +50 | 813.48 | 810.91 | −2.57 | 50.03 | | 235 | | | | 102 | | |
| | | +51.17 | 813.50 | 810.90 | −2.60 | | 124 | | 0 | | 81 | | | |
| VC = 600' SSD = 401' | | 268+00 | 814.36 | 810.65 | −3.71 | 50.03 | | 201 | | 2 | | 120 | | |
| | | +01.20 | 814.32 | 810.64 | −3.68 | | 93 | | 2 | | 48 | | | |
| | | +50 | 812.76 | 810.18 | −2.58 | 50.03 | | 117 | | 2 | | 804 | | |
| | | +51.23 | 812.72 | 810.17 | −2.55 | | 33 | | 0 | | 820 | | | |
| | | 269+00 | 811.16 | 809.51 | −1.65 | 50.03 | | 65 | | | | 1712 | | |
| | | +01.26 | 811.12 | 809.49 | −1.63 | | 37 | | | | 1028 | | C | 672 |
| | | +50 | 809.56 | 808.63 | −0.93 | 49.98 | | 44 | | | | 2002 | R | 4 |
| | | +51.24 | 809.52 | 808.61 | −0.91 | | 11 | | | | 1135 | | F | 12357 |
| | | 270+00 | 807.96 | 807.55 | −0.41 | 49.68 | | 10 | | | | 1928 | FAC | 1.15 |
| | | +00.92 | 807.93 | 807.52 | −0.41 | | 0 | | | | 961 | | | |
| | | +50 | 806.36 | 806.26 | −0.10 | 49.66 | | | | | | 1813 | EXF | 13537 |
| | | +50.58 | 806.34 | 806.24 | −0.10 | | | | | | 1010 | | | |
| | | 271+00 | 804.76 | 804.76 | 0 | 49.65 | | | | | | 1486 | | |
| | | +00.23 | 804.75 | 804.75 | +0.00 | | | | | | 606 | | | |
| | | | | | | 49.67 | | | | | | 1189 | | |
| | | +49.90 | 803.16 | 803.27 | +0.11 | | | | | | 687 | | | |
| | -3.2000 % | +50 | 803.16 | 803.27 | +0.11 | 49.68 | | | | | | 1201 | | |
| | | +99.58 | 801.57 | 802.02 | +0.55 | | | | | | 618 | | | |
| | | CARRIED FORWARD | | | | | | | | | | | | |
| | | COLUMN FOOTING | | | | | | 4644 | | 4 | | 16869 | | |

PROJECT NAME U.S. ROUTE 2 MARSHFIELD
PROJECT NUMBER FEGC − F028 − 3(28)

SHEET 26 OF SHEETS