

# GRADING REPORT

COMPUTED BY: DUSTIN HUNT

CHECKED BY: TODD KEMP

FEDERAL PROJECT NO: N/A

ROUTE NO. OR STREET: I-40 BRIDGES OVER SR-24 (US-70N), L.M. 0.24

SHEET 1 OF 4

STATE NO.: 18100-4148-04

PIN: 105727.01

COUNTY: CUMBERLAND

## ESTIMATED GRADING QUANTITIES

| DESCRIPTION                               | UNADJUSTED VOLUMES (CY) |               | ADJUSTED VOLUMES (CY) | BALANCE SUMMARY            |               |             |
|-------------------------------------------|-------------------------|---------------|-----------------------|----------------------------|---------------|-------------|
|                                           | EXC.                    | EMB.          | EXC.                  | SHRINK = 20 % SWELL = 20 % |               |             |
| MAINLINE                                  | 5126                    | 7133          | 4101                  |                            |               |             |
| SIDE ROADS                                | 431                     | 0             | 345                   |                            |               |             |
| PVT. DRIVES, BUSINESS AND FIELD ENTRANCES | 0                       | 0             |                       | EMB.                       |               | EXC.        |
| INDEPENDENT DITCHES                       | 0                       | 0             |                       |                            |               |             |
| TEMPORARY CONSTRUCTION EXITS              | 39                      | 0             | 32                    | 7133                       | VS.           | -4496       |
| BRIDGE END FLUME                          | 24                      | 0             | 20                    |                            |               |             |
| TOPSOIL (EMB.)                            | 0                       |               |                       | AVAILABLE                  | =             | 2637        |
| TOPSOIL (EXC.)                            | 308                     |               |                       |                            |               |             |
| TOPSOIL TOTALS (SEE TOPSOIL TABLE)        |                         |               |                       | BORROW MATERIAL            | =             | 3165        |
| ROCK (C.Y.)                               |                         | TOTALS (C.Y.) |                       |                            |               |             |
| EXC.                                      | EMB.                    | EXC. (UNCL.)  | EMB. (UNCL.)          | EXC. (COMMON)              | EXC. (AVAIL.) | EXC. (ADJ.) |
| 0                                         | 0                       | 5928          | 7133                  | 5928                       | 5620          | 4496        |

| Station | Exc<br>(S.F.) | Emb<br>(S.F.) | Exc<br>(C.Y.) | Emb<br>(C.Y.) |
|---------|---------------|---------------|---------------|---------------|
| I-40    |               |               |               |               |
| 76300   | 15            | 7             |               |               |
| 76350   | 15            | 15            | 28            | 20            |
| 76400   | 14            | 27            | 27            | 39            |
| 76450   | 11            | 38            | 23            | 60            |
| 76500   | 12            | 40            | 21            | 72            |
| 76550   | 13            | 39            | 23            | 73            |
| 76600   | 13            | 23            | 24            | 57            |
| 76615   | 13            | 21            | 7             | 12            |
| 76650   | 34            | 18            | 30            | 25            |
| 76700   | 30            | 20            | 59            | 35            |
| 76750   | 30            | 31            | 56            | 47            |
| 76800   | 30            | 29            | 56            | 56            |
| 76850   | 31            | 32            | 56            | 56            |
| 76900   | 30            | 31            | 56            | 58            |
| 76950   | 29            | 34            | 55            | 60            |
| 77000   | 29            | 38            | 54            | 67            |
| 77050   | 30            | 27            | 55            | 60            |
| 77100   | 28            | 24            | 54            | 47            |
| 77150   | 30            | 19            | 54            | 40            |
| 77200   | 35            | 10            | 60            | 27            |
| 77250   | 32            | 13            | 62            | 21            |
| 77300   | 31            | 26            | 58            | 36            |
| 77350   | 30            | 33            | 56            | 55            |
| 77400   | 40            | 9             | 65            | 39            |
| 77450   | 83            | 0             | 114           | 8             |
| 77500   | 33            | 13            | 107           | 12            |
| 77550   | 31            | 17            | 59            | 28            |

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|          |     |    |     |     |
|----------|-----|----|-----|-----|
| 77600    | 31  | 27 | 57  | 41  |
| 77650    | 29  | 32 | 56  | 55  |
| 77700    | 30  | 44 | 55  | 70  |
| 77750    | 28  | 47 | 54  | 84  |
| 77800    | 33  | 40 | 117 | 156 |
| 77833    | 30  | 43 | 89  | 138 |
| 77850    | 29  | 47 | 19  | 28  |
| 77900    | 31  | 48 | 56  | 88  |
| 77950    | 30  | 55 | 56  | 95  |
| 78000    | 28  | 60 | 54  | 106 |
| 78050    | 29  | 52 | 53  | 104 |
| 78100    | 27  | 50 | 52  | 94  |
| 78150    | 26  | 58 | 49  | 100 |
| 78200    | 26  | 65 | 48  | 114 |
| 78250    | 28  | 53 | 50  | 109 |
| 78300    | 32  | 32 | 56  | 79  |
| 78350    | 38  | 17 | 65  | 45  |
| 78400    | 36  | 8  | 69  | 23  |
| 78450    | 52  | 6  | 81  | 13  |
| 78500    | 75  | 2  | 118 | 7   |
| 78541.8  | 143 | 2  | 169 | 3   |
| 78550    | 134 | 2  | 42  | 1   |
| 78600    | 20  | 0  | 143 | 2   |
| 78611.66 | 11  | 0  | 7   | 0   |
| 78650    | 0   | 0  | 8   | 0   |
| 78700    | 0   | 0  | 0   | 0   |
| 78750    | 0   | 0  | 0   | 0   |
| 78800    | 0   | 0  | 0   | 0   |
| 78850    | 9   | 0  | 8   | 0   |
| 78851.16 | 9   | 0  | 0   | 0   |
| 78900    | 73  | 1  | 74  | 1   |
| 78913.91 | 81  | 0  | 40  | 0   |
| 78950    | 73  | 3  | 103 | 2   |
| 79000    | 56  | 15 | 119 | 17  |
| 79050    | 65  | 12 | 112 | 25  |
| 79100    | 39  | 24 | 96  | 33  |
| 79150    | 35  | 40 | 69  | 59  |
| 79200    | 32  | 45 | 62  | 79  |
| 79250    | 29  | 54 | 56  | 92  |
| 79300    | 26  | 70 | 51  | 115 |
| 79350    | 31  | 62 | 53  | 122 |
| 79400    | 30  | 64 | 56  | 117 |
| 79450    | 28  | 61 | 54  | 116 |
| 79500    | 29  | 66 | 53  | 118 |
| 79550    | 25  | 81 | 50  | 136 |
| 79600    | 25  | 88 | 46  | 156 |
| 79627.79 | 24  | 88 | 25  | 91  |
| 79650    | 24  | 80 | 20  | 69  |
| 79700    | 27  | 62 | 47  | 131 |
| 79750    | 28  | 28 | 51  | 83  |

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|       |    |    |        |        |
|-------|----|----|--------|--------|
| 79800 | 29 | 21 | 53     | 45     |
| 79850 | 26 | 35 | 51     | 52     |
| 79900 | 24 | 65 | 46     | 93     |
| 79950 | 24 | 60 | 44     | 116    |
| 80000 | 23 | 60 | 44     | 111    |
| 80050 | 23 | 61 | 43     | 112    |
| 80100 | 23 | 71 | 43     | 122    |
| 80150 | 23 | 69 | 43     | 130    |
| 80200 | 23 | 70 | 43     | 129    |
| 80250 | 23 | 72 | 43     | 131    |
| 80300 | 22 | 76 | 42     | 137    |
| 80350 | 23 | 75 | 42     | 140    |
| 80400 | 22 | 71 | 42     | 135    |
| 80450 | 23 | 71 | 42     | 131    |
| 80500 | 23 | 74 | 43     | 134    |
| 80550 | 24 | 46 | 44     | 111    |
| 80600 | 24 | 47 | 44     | 86     |
| 80650 | 24 | 48 | 44     | 88     |
| 80700 | 23 | 52 | 44     | 93     |
| 80750 | 23 | 46 | 43     | 91     |
| 80800 | 25 | 45 | 44     | 84     |
| 80850 | 25 | 43 | 46     | 81     |
| 80885 | 12 | 41 | 24     | 54     |
| 80900 | 11 | 40 | 6      | 23     |
| 80950 | 12 | 32 | 21     | 67     |
| 81000 | 12 | 33 | 22     | 60     |
| 81050 | 14 | 26 | 24     | 55     |
| 81100 | 13 | 25 | 25     | 47     |
| 81150 | 12 | 29 | 23     | 50     |
| 81200 | 13 | 24 | 23     | 49     |
| 81250 | 12 | 25 | 23     | 45     |
| 81300 | 16 | 12 | 26     | 34     |
| 81350 | 13 | 15 | 27     | 25     |
| 81400 | 12 | 14 | 23     | 27     |
| 81450 | 0  | 0  | 11     | 13     |
|       |    |    | Exc    | Emb    |
|       |    |    | (C.Y.) | (C.Y.) |
|       |    |    | 5434   | 7133   |

## SR-24

|      |    |   |    |   |
|------|----|---|----|---|
| 1600 | 0  | 0 | 0  | 0 |
| 1650 | 0  | 0 | 0  | 0 |
| 1700 | 0  | 0 | 0  | 0 |
| 1750 | 0  | 0 | 0  | 0 |
| 1800 | 16 | 0 | 15 | 0 |
| 1850 | 30 | 0 | 43 | 0 |
| 1900 | 19 | 0 | 45 | 0 |
| 1950 | 19 | 0 | 35 | 0 |

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|      |    |   |        |        |
|------|----|---|--------|--------|
| 2000 | 36 | 0 | 51     | 0      |
| 2050 | 36 | 0 | 67     | 0      |
| 2100 | 17 | 0 | 49     | 0      |
| 2150 | 21 | 0 | 35     | 0      |
| 2200 | 23 | 0 | 41     | 0      |
| 2250 | 16 | 0 | 36     | 0      |
| 2300 | 0  | 0 | 15     | 0      |
| 2350 | 0  | 0 | 0      | 0      |
|      |    |   | Exc    | Emb    |
|      |    |   | (C.Y.) | (C.Y.) |
|      |    |   | 431    | 0      |