## 48203100 HOT MIX ASPHALT SHOULDERS

| | | STATION | TO | STATION | | LENGTH (FOOT) | WIDTH (FOOT) | AREA (SQ YD) | SHOULDER THICKNESS (INCHES) | 48203100 HMA SHLD (TON) | 40600100 BIT MATLS PR CT (GAL) | 40600300 AGG PR CT (TON) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | LT. | 759+39.00 | | 765+84.00 | BK | 645.0 | 3.0 | 215.0 | 1.5 | 18.1 | 21.5 | 0.4 |
| | RT. | 759+39.00 | | 764+94.00 | | 555.0 | 3.0 | 185.0 | 1.5 | 15.5 | 18.5 | 0.4 |
| | RT. | 01+17.58 | | 10+38.50 | | 920.9 | 3.0 | 307.0 | 1.5 | 25.8 | 30.7 | 0.6 |
| | LT. | 00+00.00 | AH | 09+88.90 | | 988.9 | 3.0 | 329.6 | 1.5 | 27.7 | 33.0 | 0.7 |
| | RT. | 10+38.50 | | 18+37.66 | BK | 799.2 | 8.0 | 710.4 | 1.5 | 59.7 | 71.0 | 1.4 |
| | RT. | 18+78.66 | AH | 28+60.00 | | 981.3 | 8.0 | 872.3 | 1.5 | 73.3 | 87.2 | 1.7 |
| | LT. | 09+88.60 | | 18+37.66 | BK | 849.1 | 8.0 | 754.7 | 1.5 | 63.4 | 75.5 | 1.5 |
| | RT. | 31+63.00 | | 34+50.00 | | 287.0 | 8.0 | 255.1 | 1.5 | 21.4 | 25.5 | 0.5 |
| | LT. | 18+78.66 | | 28+60.00 | | 981.3 | 8.0 | 872.3 | 1.5 | 73.3 | 87.2 | 1.7 |
| | RT. | 34+50.00 | | 39+10.00 | | 460.0 | 8.0 | 408.9 | 1.5 | 34.3 | 40.9 | 0.8 |
| | LT. | 32+03.00 | | 35+84.00 | | 381.0 | 8.0 | 338.7 | 1.5 | 28.4 | 33.9 | 0.7 |
| | LT. | 36+86.48 | | 37+15.85 | | 29.4 | 3.0 | 9.8 | 1.5 | 0.8 | 1.0 | 0.0 |
| | LT. | 37+74.87 | | 38+08.13 | | 33.3 | 3.0 | 11.1 | 1.5 | 0.9 | 1.1 | 0.0 |
| | RT. | 39+10.00 | | 46+30.91 | | 720.9 | 3.0 | 240.3 | 1.5 | 20.2 | 24.0 | 0.5 |
| | RT. | 47+26.62 | | 48+58.81 | | 132.2 | 3.0 | 44.1 | 1.5 | 3.7 | 4.4 | 0.1 |
| | LT. | 38+79.01 | | 43+68.35 | | 489.3 | 3.0 | 163.1 | 1.5 | 13.7 | 16.3 | 0.3 |
| | LT. | 44+32.45 | | 45+23.61 | | 91.2 | 3.0 | 30.4 | 1.5 | 2.6 | 3.0 | 0.1 |
| | LT. | 45+87.55 | | 83+32.79 | | 3745.2 | 3.0 | 1248.4 | 1.5 | 104.9 | 124.8 | 2.5 |
| | RT. | 49+51.11 | | 50+72.93 | | 121.8 | 3.0 | 40.6 | 1.5 | 3.4 | 4.1 | 0.1 |
| | RT. | 51+67.67 | | 138+54.66 | | 8687.0 | 3.0 | 2895.7 | 1.5 | 243.2 | 289.6 | 5.8 |
| | RT. | 139+27.13 | | 155+20.50 | | 1593.4 | 3.0 | 531.1 | 1.5 | 44.6 | 53.1 | 1.1 |
| | LT. | 83+71.68 | | 136+12.06 | | 5240.4 | 3.0 | 1746.8 | 1.5 | 146.7 | 174.7 | 3.5 |
| | LT. | 137+14.41 | | 155+20.50 | | 1806.1 | 3.0 | 602.0 | 1.5 | 50.6 | 60.2 | 1.2 |
| | LT. | 155+20.50 | | 156+42.50 | | 122.0 | 6.0 | 81.3 | 1.5 | 6.8 | 8.1 | 0.2 |
| | RT. | 155+20.50 | | 156+42.50 | | 122.0 | 6.0 | 81.3 | 1.5 | 6.8 | 8.1 | 0.2 |
| | RT. | 157+15.00 | | 159+94.16 | | 279.2 | 6.0 | 186.1 | 1.5 | 15.6 | 18.6 | 0.4 |
| | LT. | 157+15.00 | | 159+94.16 | | 279.2 | 6.0 | 186.1 | 1.5 | 15.6 | 18.6 | 0.4 |
| | LT. | 160+33.99 | | 202+69.20 | | 4235.2 | 3.0 | 1411.7 | 1.5 | 118.6 | 141.2 | 2.8 |
| | RT. | 159+94.16 | | 164+98.05 | | 503.9 | 3.0 | 168.0 | 1.5 | 14.1 | 16.8 | 0.3 |
| | RT. | 165+56.63 | | 217+76.92 | | 5220.3 | 3.0 | 1740.1 | 1.5 | 146.2 | 174.0 | 3.5 |
| | RT. | 218+15.84 | | 270+50.11 | | 5234.3 | 3.0 | 1744.8 | 1.5 | 146.6 | 174.5 | 3.5 |
| | LT. | 203+23.51 | | 242+56.32 | | 3932.8 | 3.0 | 1310.9 | 1.5 | 110.1 | 131.1 | 2.6 |
| | LT. | 243+02.96 | | 269+06.16 | | 2603.2 | 3.0 | 867.7 | 1.5 | 72.9 | 86.8 | 1.7 |
| | RT. | 270+89.61 | | 273+77.07 | | 287.5 | 3.0 | 95.8 | 1.5 | 8.0 | 9.6 | 0.2 |
| | RT. | 274+82.12 | | 276+40.68 | | 158.6 | 3.0 | 52.9 | 1.5 | 4.4 | 5.3 | 0.1 |
| | RT. | 277+07.64 | | 279+69.09 | | 261.5 | 3.0 | 87.2 | 1.5 | 7.3 | 8.7 | 0.2 |
| | RT. | 280+80.20 | | 281+47.20 | | 67.0 | 3.0 | 22.3 | 1.5 | 1.9 | 2.2 | 0.0 |
| | RT. | 282+20.78 | | 286+60.70 | | 439.9 | 3.0 | 146.6 | 1.5 | 12.3 | 14.7 | 0.3 |
| | LT. | 269+52.91 | | 292+15.00 | | 2262.1 | 3.0 | 754.0 | 1.5 | 63.3 | 75.4 | 1.5 |
| | RT. | 287+42.00 | | 292+15.00 | | 473.0 | 3.0 | 157.7 | 1.5 | 13.2 | 15.8 | 0.3 |
| | RT. | 292+15.00 | | 294+66.50 | | 251.5 | 6.0 | 167.7 | 1.5 | 14.1 | 16.8 | 0.3 |
| | LT. | 292+15.00 | | 294+41.00 | | 226.0 | 6.0 | 150.7 | 1.5 | 12.7 | 15.1 | 0.3 |
| | LT. | 296+77.90 | | 296+80.00 | | 2.1 | 6.0 | 1.4 | 1.5 | 0.1 | 0.1 | 0.0 |
| | RT. | 296+75.00 | | 298+79.90 | | 204.9 | 6.0 | 136.6 | 1.5 | 11.5 | 13.7 | 0.3 |
| | LT. | 297+68.00 | | 298+79.90 | | 111.9 | 6.0 | 74.6 | 1.5 | 6.3 | 7.5 | 0.1 |
| | RT. | 298+79.90 | | 315+83.74 | BK | 1703.8 | 3.0 | 567.9 | 1.5 | 47.7 | 56.8 | 1.1 |
| | RT. | 316+00.00 | AH | 317+60.00 | | 160.0 | 3.0 | 53.3 | 1.5 | 4.5 | 5.3 | 0.1 |
| | LT. | 298+79.90 | | 315+83.74 | BK | 1703.8 | 3.0 | 567.9 | 1.5 | 47.7 | 56.8 | 1.1 |
| | LT. | 316+00.00 | AH | 327+06.19 | | 1106.2 | 3.0 | 368.7 | 1.5 | 31.0 | 36.9 | 0.7 |
| | RT. | 318+44.26 | | 376+62.32 | | 5818.1 | 3.0 | 1939.4 | 1.5 | 162.9 | 193.9 | 3.9 |
| | LT. | 329+53.16 | | 348+06.58 | | 1853.4 | 3.0 | 617.8 | 1.5 | 51.9 | 61.8 | 1.2 |
| | LT. | 349+48.94 | | 458+86.70 | | 10937.8 | 3.0 | 3645.9 | 1.5 | 306.3 | 364.6 | 7.3 |
| | RT. | 377+10.21 | | 428+45.06 | | 5134.9 | 3.0 | 1711.6 | 1.5 | 143.8 | 171.2 | 3.4 |
| | RT. | 429+24.98 | | 458+86.70 | | 2961.7 | 3.0 | 987.2 | 1.5 | 82.9 | 98.7 | 2.0 |
| | RT. | 458+86.70 | | 461+52.00 | | 265.3 | 6.0 | 176.9 | 1.5 | 14.9 | 17.7 | 0.4 |
| | LT. | 458+86.70 | | 461+52.00 | | 265.3 | 6.0 | 176.9 | 1.5 | 14.9 | 17.7 | 0.4 |
| | LT. | 461+71.40 | | 464+12.00 | | 240.6 | 6.0 | 160.4 | 1.5 | 13.5 | 16.0 | 0.3 |
| | RT. | 461+71.40 | | 464+12.00 | | 240.6 | 6.0 | 160.4 | 1.5 | 13.5 | 16.0 | 0.3 |
| | RT. | 464+12.00 | | 471+64.00 | | 752.0 | 3.0 | 250.7 | 1.5 | 21.1 | 25.1 | 0.5 |
| | LT. | 464+12.00 | | 471+64.00 | | 752.0 | 3.0 | 250.7 | 1.5 | 21.1 | 25.1 | 0.5 |
| | LT. | 480+95.00 | | 482+06.78 | BK | 111.8 | 3.0 | 37.3 | 1.5 | 3.1 | 3.7 | 0.1 |
| | RT. | 480+95.00 | | 482+06.78 | BK | 111.8 | 3.0 | 37.3 | 1.5 | 3.1 | 3.7 | 0.1 |
| | LT. | 482+17.54 | AH | 486+07.24 | | 389.7 | 3.0 | 129.9 | 1.5 | 10.9 | 13.0 | 0.3 |
| | LT. | 488+31.27 | | 492+13.82 | BK | 382.6 | 3.0 | 127.5 | 1.5 | 10.7 | 12.8 | 0.3 |
| | LT. | 103+00.00 | AH | 112+16.57 | | 916.6 | 3.0 | 305.5 | 1.5 | 25.7 | 30.6 | 0.6 |
| | RT. | 482+17.54 | AH | 492+13.82 | BK | 996.3 | 3.0 | 332.1 | 1.5 | 27.9 | 33.2 | 0.7 |
| | RT. | 103+00.00 | AH | 108+78.00 | | 578.0 | 3.0 | 192.7 | 1.5 | 16.2 | 19.3 | 0.4 |
| SOUTH | RT. | 1999+58.00 | | 2009+04.00 | | 946.0 | 3.0 | 315.3 | 1.5 | 26.5 | 31.5 | 0.6 |
| RAMP | LT. | 2003+79.41 | | 2009+04.00 | | 524.6 | 3.0 | 174.9 | 1.5 | 14.7 | 17.5 | 0.3 |
| NORTH | LT. | 1000+59.47 | | 1007+19.50 | | 660.0 | 3.0 | 220.0 | 1.5 | 18.5 | 22.0 | 0.4 |
| RAMP | RT. | 1002+94.51 | | 1007+19.50 | | 425.0 | 3.0 | 141.7 | 1.5 | 11.9 | 14.2 | 0.3 |
| | | | | | | | | | TOTALS | 3031.4 | 3608.8 | 72.2 |
| | | | | | | | | | USE | 3032.0 | 3609.0 | 72.0 |

HMA SHOULDERS
STA. 759+39.00 TO STA. 376+85.50
USE "C" MIX = 2,306.9 TONS

STA. 376+85.50 TO STA. 116+88.50
USE."D" MIX = 724.5 TONS

THE HMA SHOULDER IS TO BE PLACED WITH THE MAINLINE OPERATION.

### X0301232 - SURVEY MARKER VAULT

| LOCATION | EACH |
|---|---|
| MAINLINE - US 36 | |
| 4.3' RT. STA. 0+00.00 | 1.0 |
| 6.2' RT. STA. 165+25.3 | 1.0 |
| 7.4' LT. STA. 217+89.7 | 1.0 |
| 3.2' LT STA. 242+77.8 | 1.0 |
| 3.2' RT. STA. 269+30 | 1.0 |
| 3.2' RT. STA. 323+04.6 | 1.0 |
| TOTAL | 6.0 |

### Z0070100 - SURVEY MONUMENT COVER ASSEMBLY

| LOCATION | EACH |
|---|---|
| SB RAMP | |
| PC STA. 2000+00.00 | 1.0 |
| PT STA. 2003+63.14 | 1.0 |
| PC STA. 2007+36.70 | 1.0 |
| PT STA. 2008+64.80 | 1.0 |
| NB RAMP | |
| PC STA. 1001+18.82 | 1.0 |
| PT STA. 1002+77.87 | 1.0 |
| PC STA. 1005+87.67 | 1.0 |
| PT STA. 1007+12.70 | 1.0 |
| TOTAL | 8.0 |