

가. NATM(무근)

|      |       |      |                                   |    |    |         |    |     |    |          |   |   |   |
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|      |       | 터널현황 | { { { { { 배열수식 : ctrl+shift+enter |    |    |         |    |     |    |          |   |   |   |
| SPAN | Sheet | 연장   | 누적거리                              | 균열 | 누수 | 파손 및 손상 | 바리 | 리 및 | 백테 | 재료<br>분리 | - | - | - |

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| 균열 | 누수 | 파손 | 박리 | 박락 | 백태 | 재료<br>분리 | - | - | - |
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| 균열 | 누수 | 파손 | 박리 | 박락 | 백태 | 재료<br>분리 | - | - | - | 결함점수<br>합 계 | 라 이 닝<br>결함지수 |
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|-------------|-----------|------|--------|--------|-----|------|------|---|------|------|------|---|---|---|---|
| NATURAL GAS | S280-S282 | 52   | 30.0   | 1438.0 | 0   | 없음   | 0.00 | 0 | 0    | 0.00 | 0.00 | - | - | - | - |
|             | S285-S287 | 53   | 30.0   | 1468.0 | 0.2 | 없음   | 0.00 | 0 | 0    | 0.00 | 0.00 | - | - | - | - |
|             | S288-S290 | 54   | 30.0   | 1498.0 | 0.2 | 없음   | 0.00 | 0 | 0    | 0.00 | 0.00 | - | - | - | - |
|             | S291-S293 | 55   | 21.0   | 1519.0 | 0.2 | 없음   | 0.00 | 0 | 0    | 0.00 | 0.00 | - | - | - | - |
|             | S294-S296 | 56   | 30.0   | 1549.0 | 0.3 | 없음   | 0.00 | 0 | 0    | 0.00 | 0.00 | - | - | - | - |
|             | S299-S301 | 57   | 27.0   | 1576.0 | 0.3 | 없음   | 0.00 | 0 | 0    | 0.00 | 0.00 | - | - | - | - |
|             | S321-S323 | 58   | 23.5   | 1599.5 | 0.5 | 없음   | 0.00 | 0 | 0    | 0.00 | 0.00 | - | - | - | - |
|             | S324-S326 | 59   | 30.0   | 1629.5 | 0.5 | 없음   | 0.00 | 0 | 0    | 0.00 | 0.00 | - | - | - | - |
|             | S327-S329 | 60   | 29.0   | 1658.5 | 0   | 없음   | 0.00 | 0 | 0    | 0.00 | 0.00 | - | - | - | - |
|             | S332-S334 | 61   | 21.5   | 1680.0 | 0   | 없음   | 0.00 | 0 | 0    | 0.00 | 0.00 | - | - | - | - |
|             | S335-S337 | 62   | 30.0   | 1710.0 | 0.5 | 없음   | 0.00 | 0 | 0    | 0.00 | 0.00 | - | - | - | - |
|             | S338-S340 | 63   | 30.0   | 1740.0 | 0   | 없음   | 0.00 | 0 | 0    | 0.00 | 0.00 | - | - | - | - |
|             | S341-S343 | 64   | 30.0   | 1770.0 | 0   | 없음   | 0.00 | 0 | 0    | 0.00 | 0.00 | - | - | - | - |
|             | S344-S346 | 65   | 30.0   | 1800.0 | 0.5 | 없음   | 0.00 | 0 | 0    | 0.00 | 0.00 | - | - | - | - |
|             | S347-S349 | 66   | 30.0   | 1830.0 | 0   | 없음   | 0.00 | 0 | 0    | 0.00 | 0.00 | - | - | - | - |
|             | S350      | 67   | 10.0   | 1840.0 | 0   | 없음   | 0.00 | 0 | 0    | 0.00 | 0.00 | - | - | - | - |
|             | S354-S356 | 68   | 26.5   | 1866.5 | 0   | 없음   | 0.00 | 0 | 0    | 0.00 | 0.00 | - | - | - | - |
|             | S357-S359 | 69   | 30.0   | 1896.5 | 0   | 없음   | 0.00 | 0 | 0    | 0.00 | 0.00 | - | - | - | - |
|             | S360-S362 | 70   | 30.0   | 1926.5 | 0   | 없음   | 0.00 | 0 | 0    | 0.00 | 0.00 | - | - | - | - |
|             | S363-S365 | 71   | 30.0   | 1956.5 | 0   | 없음   | 0.00 | 0 | 0    | 0.00 | 0.00 | - | - | - | - |
|             | S366-S368 | 72   | 30.0   | 1986.5 | 0.2 | 없음   | 0.00 | 0 | 0    | 0.00 | 0.00 | - | - | - | - |
|             | S369-S371 | 73   | 30.0   | 2016.5 | 0   | 없음   | 0.15 | 5 | 0    | 0.00 | 0.00 | - | - | - | - |
|             | S372-S374 | 74   | 30.0   | 2046.5 | 0.3 | 없음   | 0.00 | 0 | 0    | 0.00 | 0.00 | - | - | - | - |
|             | S375-S376 | 75   | 20.0   | 2066.5 | 0   | 없음   | 0.00 | 0 | 0    | 0.00 | 0.00 | - | - | - | - |
|             | S380-S382 | 76   | 26.5   | 2093.0 | 0.5 | 없음   | 0.00 | 0 | 0    | 0.00 | 0.00 | - | - | - | - |
|             | S383-S385 | 77   | 30.0   | 2123.0 | 0   | 없음   | 0.00 | 0 | 0    | 0.00 | 0.00 | - | - | - | - |
|             | S386-S388 | 78   | 30.0   | 2153.0 | 0.5 | 없음   | 0.00 | 0 | 0    | 0.00 | 0.00 | - | - | - | - |
|             | S389-S391 | 79   | 30.0   | 2183.0 | 0   | 초음   | 0.00 | 0 | 0    | 0.00 | 0.00 | - | - | - | - |
|             | S392-S394 | 80   | 30.0   | 2213.0 | 0   | 없음   | 0.00 | 0 | 0    | 0.00 | 0.00 | - | - | - | - |
|             | S395-S397 | 81   | 30.0   | 2243.0 | 0.2 | 없음   | 0.00 | 0 | 0    | 0.00 | 0.00 | - | - | - | - |
|             | S398-S400 | 82   | 30.0   | 2273.0 | 0   | 없음   | 0.00 | 0 | 0    | 0.00 | 0.00 | - | - | - | - |
|             | S401-S402 | 83   | 20.0   | 2293.0 | 0   | 없음   | 0.00 | 0 | 0    | 0.00 | 0.00 | - | - | - | - |
|             | S410-S412 | 84   | 26.5   | 2319.5 | 0.5 | 없음   | 0.00 | 0 | 0    | 0.00 | 0.00 | - | - | - | - |
|             | S413-S415 | 85   | 30.0   | 2349.5 | 0.5 | 없음   | 0.00 | 0 | 0    | 0.00 | 0.00 | - | - | - | - |
|             | S416-S418 | 86   | 30.0   | 2379.5 | 0   | 없음   | 0.00 | 0 | 0    | 0.00 | 0.00 | - | - | - | - |
|             | S419-S421 | 87   | 30.0   | 2409.5 | 0.5 | 없음   | 0.00 | 0 | 0    | 0.00 | 0.00 | - | - | - | - |
|             | S422-S424 | 88   | 30.0   | 2439.5 | 0   | 없음   | 0.00 | 0 | 0    | 0.00 | 0.00 | - | - | - | - |
|             | S425-S427 | 89   | 30.0   | 2469.5 | 0   | 없음   | 0.00 | 0 | 0    | 0.00 | 0.00 | - | - | - | - |
|             | S428      | 90   | 10.0   | 2479.5 | 0   | 없음   | 0.00 | 0 | 0    | 0.00 | 0.00 | - | - | - | - |
|             | S432-S434 | 91   | 28.0   | 2507.5 | 0   | 없음   | 0.00 | 0 | 0    | 0.00 | 0.00 | - | - | - | - |
|             | S435-S437 | 92   | 28.0   | 2535.5 | 0   | 없음   | 0.00 | 0 | 0    | 0.00 | 0.00 | - | - | - | - |
|             | S438-S440 | 93   | 30.0   | 2565.5 | 0   | 없음   | 0.00 | 0 | 0    | 0.00 | 0.00 | - | - | - | - |
|             | S441-S443 | 94   | 30.0   | 2595.5 | 0.5 | 없음   | 0.00 | 0 | 0    | 0.00 | 0.00 | - | - | - | - |
|             | S444-S446 | 95   | 30.0   | 2625.5 | 0   | 없음   | 0.00 | 0 | 0    | 0.00 | 0.00 | - | - | - | - |
| S447-S449   | 96        | 30.0 | 2655.5 | 0      | 없음  | 0.00 | 0    | 0 | 0.00 | 0.00 | -    | - | - | - |   |
| S450-S452   | 97        | 30.0 | 2685.5 | 0      | 없음  | 0.00 | 0    | 0 | 0.00 | 0.00 | -    | - | - | - |   |
| S453-S454   | 98        | 20.0 | 2705.5 | 0      | 없음  | 0.00 | 0    | 0 | 0.00 | 0.00 | -    | - | - | - |   |
| S458-S460   | 99        | 26.0 | 2731.5 | 0      | 없음  | 0.00 | 0    | 0 | 0.00 | 0.00 | -    | - | - | - |   |

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| S461~S463 | 100 | 30.0 | 2761.5 | 1.0 | 없음 | 0.00 | 0 | 0 | 0.00 | 0.00 | - | - | - | - |
| S464~S466 | 101 | 30.0 | 2791.5 | 0.5 | 없음 | 0.00 | 5 | 0 | 0.00 | 0.00 | - | - | - | - |
| S467~S469 | 102 | 30.0 | 2821.5 | 0.5 | 없음 | 0.00 | 5 | 0 | 0.00 | 0.00 | - | - | - | - |
| S470~S472 | 103 | 30.0 | 2851.5 | 0.5 | 없음 | 0.00 | 5 | 0 | 0.00 | 0.00 | - | - | - | - |
| S484~S486 | 104 | 26.5 | 2878.0 | 0.5 | 없음 | 0.00 | 5 | 0 | 0.00 | 0.00 | - | - | - | - |
| S487~S489 | 105 | 30.0 | 2908.0 | 0   | 없음 | 0.00 | 5 | 0 | 0.00 | 0.00 | - | - | - | - |
| S490~S492 | 106 | 30.0 | 2938.0 | 0.5 | 없음 | 0.00 | 5 | 0 | 0.00 | 0.00 | - | - | - | - |
| S493~S495 | 107 | 30.0 | 2968.0 | 0.5 | 없음 | 0.00 | 5 | 0 | 0.00 | 0.00 | - | - | - | - |
| S496~S498 | 108 | 30.0 | 2998.0 | 0.3 | 없음 | 0.00 | 0 | 0 | 0.00 | 0.00 | - | - | - | - |
| S499~S501 | 109 | 30.0 | 3028.0 | 0.5 | 없음 | 0.00 | 5 | 0 | 0.00 | 0.00 | - | - | - | - |
| S502~S504 | 110 | 30.0 | 3058.0 | 0.5 | 없음 | 0.00 | 0 | 0 | 0.00 | 0.00 | - | - | - | - |
| S505~S506 | 111 | 18.5 | 3076.5 | 0   | 없음 | 0.00 | 0 | 0 | 0.00 | 0.00 | - | - | - | - |
| S510~S512 | 112 | 30.5 | 3107.0 | 0.5 | 없음 | 0.00 | 5 | 0 | 0.00 | 0.00 | - | - | - | - |
| S513~S515 | 113 | 30.0 | 3137.0 | 0   | 없음 | 0.00 | 0 | 0 | 0.00 | 0.00 | - | - | - | - |
| S516~S518 | 114 | 30.0 | 3167.0 | 0.5 | 없음 | 0.00 | 5 | 0 | 0.00 | 0.00 | - | - | - | - |
| S519~S521 | 115 | 30.0 | 3197.0 | 0   | 없음 | 0.00 | 5 | 0 | 0.00 | 0.00 | - | - | - | - |
| S522~S524 | 116 | 30.0 | 3227.0 | 0   | 없음 | 0.00 | 0 | 0 | 0.00 | 0.00 | - | - | - | - |
| S525~S527 | 117 | 30.0 | 3257.0 | 0.5 | 없음 | 0.00 | 0 | 0 | 0.00 | 0.00 | - | - | - | - |
| S528~S530 | 118 | 30.0 | 3287.0 | 0   | 없음 | 0.00 | 0 | 0 | 0.00 | 0.00 | - | - | - | - |
| S531      | 119 | 10.0 | 3297.0 | 0.5 | 없음 | 0.00 | 0 | 0 | 0.00 | 0.00 | - | - | - | - |
| S535~S537 | 120 | 24.0 | 3321.0 | 0   | 없음 | 0.00 | 5 | 0 | 0.00 | 0.00 | - | - | - | - |
| S538~S540 | 121 | 30.0 | 3351.0 | 0.5 | 없음 | 0.00 | 0 | 0 | 0.00 | 0.00 | - | - | - | - |
| S541~S543 | 122 | 30.0 | 3381.0 | 0.5 | 없음 | 0.00 | 0 | 0 | 0.00 | 0.00 | - | - | - | - |
| S544~S546 | 123 | 30.0 | 3411.0 | 0.5 | 없음 | 0.00 | 5 | 0 | 0.00 | 0.00 | - | - | - | - |
| S547~S549 | 124 | 30.0 | 3441.0 | 0.5 | 없음 | 0.00 | 0 | 0 | 0.00 | 0.00 | - | - | - | - |
| S550~S552 | 125 | 30.0 | 3471.0 | 0.5 | 없음 | 0.00 | 0 | 0 | 0.00 | 0.00 | - | - | - | - |
| S553~S555 | 126 | 30.0 | 3501.0 | 0.5 | 없음 | 0.00 | 0 | 0 | 0.00 | 0.00 | - | - | - | - |
| S556~S558 | 127 | 28.5 | 3529.5 | 0.5 | 없음 | 0.15 | 0 | 0 | 0.00 | 0.00 | - | - | - | - |
| S561~S563 | 128 | 30.0 | 3559.5 | 0.5 | 없음 | 0.00 | 0 | 0 | 0.00 | 0.00 | - | - | - | - |
| S564~S566 | 129 | 30.0 | 3589.5 | 0.3 | 없음 | 0.00 | 0 | 0 | 0.00 | 0.00 | - | - | - | - |
| S567~S569 | 130 | 30.0 | 3619.5 | 0.5 | 없음 | 0.00 | 0 | 0 | 0.00 | 0.00 | - | - | - | - |
| S570~S572 | 131 | 30.0 | 3649.5 | 0.3 | 없음 | 0.00 | 0 | 0 | 0.00 | 0.00 | - | - | - | - |
| S573~S575 | 132 | 30.0 | 3679.5 | 0.3 | 없음 | 0.00 | 0 | 0 | 0.00 | 0.00 | - | - | - | - |
| S576~S578 | 133 | 30.0 | 3709.5 | 0.5 | 없음 | 0.00 | 0 | 0 | 0.00 | 0.00 | - | - | - | - |
| S579~S581 | 134 | 30.0 | 3739.5 | 0.2 | 없음 | 0.00 | 0 | 0 | 0.00 | 0.00 | - | - | - | - |
| S589~S591 | 135 | 30.0 | 3769.5 | 0   | 없음 | 0.00 | 0 | 0 | 0.00 | 0.00 | - | - | - | - |
| S592~S594 | 136 | 21.0 | 3790.5 | 0.3 | 없음 | 0.00 | 0 | 0 | 0.00 | 0.00 | - | - | - | - |
| S595~S596 | 137 | 12.0 | 3802.5 | 1.0 | 없음 | 0.00 | 0 | 0 | 0.00 | 0.00 | - | - | - | - |
| S611~S613 | 138 | 30.0 | 3832.5 | 0   | 없음 | 0.00 | 0 | 0 | 0.00 | 0.00 | - | - | - | - |
| S614~S616 | 139 | 30.0 | 3862.5 | 0   | 없음 | 0.00 | 0 | 0 | 0.00 | 0.00 | - | - | - | - |
| S617~S619 | 140 | 30.0 | 3892.5 | 0   | 없음 | 0.00 | 0 | 0 | 0.00 | 0.00 | - | - | - | - |
| S620~S622 | 141 | 30.0 | 3922.5 | 0.5 | 없음 | 0.00 | 0 | 0 | 0.00 | 0.00 | - | - | - | - |

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| 7 | 0 | 0 | 0 | 0 | 0 | 0 | - | - | - | 7.000 | 0.259 |
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| 7 | 0 | 0 | 0 | 0 | 0 | 0 | - | - | - | 7.000 | 0.259 |
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| 7 | 0 | 0 | 0 | 0 | 0 | 0 | - | - | - | 7.000 | 0.259 |
| 4 | 0 | 0 | 0 | 0 | 0 | 0 | - | - | - | 4.000 | 0.148 |
| 7 | 0 | 0 | 0 | 0 | 0 | 0 | - | - | - | 7.000 | 0.259 |
| 7 | 0 | 0 | 0 | 0 | 0 | 0 | - | - | - | 7.000 | 0.259 |
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| 7 | 0 | 0 | 0 | 0 | 0 | 0 | - | - | - | 7.000 | 0.259 |
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| 4 | 0 | 0 | 0 | 0 | 0 | 0 | - | - | - | 4.000 | 0.148 |
| 7 | 0 | 0 | 0 | 0 | 0 | 0 | - | - | - | 7.000 | 0.259 |
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| 구분 | 라이닝  |      |                |      |             |      |          |   |   |   | 터널<br>주변     | 결함<br>점수 | 결함<br>지수<br>(A) | 연장비<br>(B) | 연장비<br>고려<br>절감지수<br>(A)*(B) |
|----|------|------|----------------|------|-------------|------|----------|---|---|---|--------------|----------|-----------------|------------|------------------------------|
|    | 굴절   | 누수   | 파손<br>및 손<br>상 | 재질열화 |             |      |          |   |   |   |              |          |                 |            |                              |
|    |      |      |                | 박리   | 충분리<br>및 박락 | 백태   | 재료<br>부리 | - | - | - |              |          |                 |            |                              |
| 철근 | 2.81 | 0.03 | 0.00           | 0.00 | 0.00        | 0.00 | 0.00     | - | - | - | 2.00         | 4.84     | 0.14            | 1.000      | 0.142                        |
|    |      |      |                |      |             |      |          |   |   |   | 결함지수         |          |                 |            | 0.142                        |
|    |      |      |                |      |             |      |          |   |   |   | 기본시설 상태평가 결과 |          |                 |            | a                            |

#### 나. NATM(철근)

|                        |           | 터널현황  |        | 0      |     | 0    |         | 0  |      | 0    |          | 0        |       | 배열수식 : ctrl+shift+enter |      |  |  |
|------------------------|-----------|-------|--------|--------|-----|------|---------|----|------|------|----------|----------|-------|-------------------------|------|--|--|
| SPAN                   |           | Sheet | 연장     | 누적거리   | 균열  | 누수   | 파손 및 손상 | 벽리 | 리 빔  | 벽태   | 재료<br>분리 | 철근<br>노출 | 탄산화   | 염화물                     |      |  |  |
|                        |           | mm    |        |        | 정도  | 손상도  | mm      | mm | %    | %    | %        | mm       | kg/m³ |                         |      |  |  |
| N<br>AT<br>M<br>구<br>간 | S012~S014 | 1     | 30.0   | 30.0   | 0   | 없음   | 0.00    | 0  | 0    | 0.00 | 0.00     | 0.00     | -     | -                       |      |  |  |
|                        | S015~S017 | 2     | 29.0   | 59.0   | 0.3 | 없음   | 0.00    | 0  | 0    | 0.00 | 0.00     | 0.00     | -     | -                       |      |  |  |
|                        | S018~S020 | 3     | 27.0   | 86.0   | 0   | 없음   | 0.00    | 0  | 0    | 1.00 | 0.00     | 0.00     | -     | -                       |      |  |  |
|                        | S021~S023 | 4     | 27.0   | 113.0  | 0   | 없음   | 0.00    | 0  | 0    | 1.00 | 0.00     | 0.00     | -     | -                       |      |  |  |
|                        | S024~S026 | 5     | 27.0   | 140.0  | 0.3 | 없음   | 0.00    | 0  | 0    | 0.00 | 0.00     | 0.00     | -     | -                       |      |  |  |
|                        | S027~S029 | 6     | 30.0   | 170.0  | 0   | 없음   | 0.00    | 0  | 0    | 0.00 | 0.00     | 0.00     | -     | -                       |      |  |  |
|                        | S030~S032 | 7     | 30.0   | 200.0  | 0.5 | 없음   | 0.00    | 0  | 0    | 0.00 | 0.00     | 0.00     | -     | -                       |      |  |  |
|                        | S033~S035 | 8     | 30.0   | 230.0  | 0   | 없음   | 0.00    | 0  | 0    | 0.00 | 0.00     | 0.00     | -     | -                       |      |  |  |
|                        | S036~S038 | 9     | 30.0   | 260.0  | 0   | 없음   | 0.00    | 0  | 0    | 0.00 | 0.00     | 0.00     | -     | -                       |      |  |  |
|                        | S039~S041 | 10    | 30.0   | 290.0  | 0   | 없음   | 0.00    | 0  | 0    | 0.00 | 0.00     | 0.00     | -     | -                       |      |  |  |
|                        | S042~S044 | 11    | 29.5   | 319.5  | 0   | 없음   | 0.00    | 0  | 0    | 0.00 | 0.00     | 0.00     | -     | -                       | 50.0 |  |  |
|                        | S045~S047 | 12    | 30.0   | 349.5  | 0   | 없음   | 0.00    | 0  | 0    | 0.00 | 0.00     | 0.00     | -     | -                       |      |  |  |
|                        | S048~S050 | 13    | 30.0   | 379.5  | 0   | 없음   | 0.00    | 0  | 0    | 0.00 | 0.00     | 0.00     | -     | -                       |      |  |  |
|                        | S051~S053 | 14    | 30.0   | 409.5  | 0   | 없음   | 0.00    | 0  | 0    | 0.00 | 0.00     | 0.00     | -     | -                       |      |  |  |
|                        | S054~S056 | 15    | 30.0   | 439.5  | 0   | 없음   | 0.00    | 0  | 0    | 0.00 | 0.00     | 0.00     | -     | -                       |      |  |  |
|                        | S057~S059 | 16    | 30.0   | 469.5  | 0   | 없음   | 0.00    | 0  | 0    | 0.00 | 0.00     | 0.00     | -     | -                       |      |  |  |
|                        | S060~S062 | 17    | 28.0   | 497.5  | 0   | 없음   | 0.00    | 0  | 0    | 0.00 | 0.00     | 0.00     | -     | -                       |      |  |  |
|                        | S063~S065 | 18    | 28.0   | 525.5  | 0   | 없음   | 0.00    | 0  | 0    | 0.00 | 0.00     | 0.00     | -     | -                       |      |  |  |
|                        | S066~S068 | 19    | 29.5   | 555.0  | 0   | 없음   | 0.00    | 0  | 0    | 0.00 | 0.00     | 0.00     | -     | -                       |      |  |  |
|                        | S069~S071 | 20    | 30.0   | 585.0  | 0   | 없음   | 0.00    | 0  | 0    | 0.00 | 0.00     | 0.00     | -     | -                       |      |  |  |
|                        | S072~S074 | 21    | 30.0   | 615.0  | 0   | 없음   | 0.00    | 0  | 0    | 0.00 | 0.00     | 0.00     | -     | -                       |      |  |  |
|                        | S075~S076 | 22    | 20.0   | 635.0  | 0   | 없음   | 0.00    | 0  | 0    | 0.00 | 0.00     | 0.00     | -     | -                       |      |  |  |
|                        | S082~S084 | 23    | 26.0   | 661.0  | 0   | 없음   | 0.00    | 0  | 0    | 1.00 | 0.00     | 0.00     | -     | -                       |      |  |  |
|                        | S085~S087 | 24    | 34.0   | 695.0  | 0   | 없음   | 0.00    | 0  | 0    | 1.00 | 0.00     | 0.00     | -     | -                       |      |  |  |
|                        | S088~S090 | 25    | 24.0   | 719.0  | 0   | 없음   | 0.00    | 0  | 0    | 0.00 | 0.00     | 0.00     | -     | -                       |      |  |  |
|                        | S091~S093 | 26    | 27.0   | 746.0  | 0   | 없음   | 0.00    | 0  | 0    | 0.00 | 0.00     | 0.00     | -     | -                       |      |  |  |
|                        | S094~S096 | 27    | 30.0   | 776.0  | 0.5 | 없음   | 0.00    | 0  | 0    | 0.00 | 0.00     | 0.00     | -     | -                       |      |  |  |
|                        | S097~S099 | 28    | 30.0   | 806.0  | 0.5 | 없음   | 0.00    | 0  | 0    | 0.00 | 0.00     | 0.00     | -     | -                       |      |  |  |
|                        | S100~S102 | 29    | 30.0   | 836.0  | 0   | 없음   | 0.15    | 0  | 0    | 0.00 | 0.00     | 0.00     | -     | -                       |      |  |  |
|                        | S103~S105 | 30    | 29.0   | 865.0  | 0.5 | 없음   | 0.00    | 0  | 0    | 1.00 | 0.00     | 0.00     | -     | -                       | 43.0 |  |  |
|                        | S106~S108 | 31    | 30.0   | 895.0  | 0   | 없음   | 0.00    | 0  | 0    | 0.00 | 0.00     | 0.00     | -     | -                       |      |  |  |
|                        | S109~S111 | 32    | 30.0   | 925.0  | 0.5 | 없음   | 0.00    | 0  | 0    | 0.00 | 0.00     | 0.00     | -     | -                       |      |  |  |
|                        | S112~S114 | 33    | 30.0   | 955.0  | 0   | 없음   | 0.00    | 0  | 0    | 0.00 | 0.00     | 0.00     | -     | -                       |      |  |  |
|                        | S115      | 34    | 10.0   | 965.0  | 0   | 없음   | 0.00    | 0  | 0    | 0.00 | 0.00     | 0.00     | -     | -                       |      |  |  |
|                        | S123~S125 | 35    | 27.0   | 992.0  | 0   | 없음   | 0.00    | 0  | 0    | 0.00 | 0.00     | 0.00     | -     | -                       |      |  |  |
|                        | S134~S136 | 36    | 30.0   | 1022.0 | 0   | 없음   | 0.15    | 0  | 0    | 0.00 | 0.00     | 0.00     | -     | -                       |      |  |  |
|                        | S137~S139 | 37    | 29.0   | 1051.0 | 0   | 없음   | 0.00    | 0  | 0    | 0.00 | 0.00     | 0.00     | -     | -                       |      |  |  |
|                        | S140~S142 | 38    | 27.5   | 1078.5 | 0   | 없음   | 0.00    | 0  | 0    | 0.00 | 0.00     | 0.00     | -     | -                       |      |  |  |
|                        | S143~S145 | 39    | 28.5   | 1107.0 | 0   | 없음   | 0.00    | 0  | 0    | 0.00 | 0.00     | 0.00     | -     | -                       |      |  |  |
|                        | S146~S148 | 40    | 30.0   | 1137.0 | 0   | 없음   | 0.00    | 0  | 0    | 0.00 | 0.00     | 0.00     | -     | -                       |      |  |  |
| S149                   | 41        | 10.0  | 1147.0 | 0      | 없음  | 0.00 | 0       | 0  | 0.00 | 0.00 | 0.00     | -        | -     |                         |      |  |  |
| S164~S165              | 42        | 20.0  | 1167.0 | 0      | 없음  | 0.00 | 0       | 0  | 0.00 | 0.00 | 0.00     | -        | -     |                         |      |  |  |
| S184~S185              | 43        | 20.0  | 1187.0 | 0      | 없음  | 0.00 | 0       | 0  | 0.00 | 0.00 | 0.00     | -        | -     |                         |      |  |  |
| S191~S193              | 44        | 30.0  | 1217.0 | 0      | 없음  | 0.00 | 0       | 0  | 0.00 | 0.00 | 0.00     | -        | -     |                         |      |  |  |
| S194~S195              | 45        | 20.0  | 1237.0 | 0      | 없음  | 0.00 | 0       | 0  | 0.00 | 0.00 | 0.00     | -        | -     |                         |      |  |  |
| S204~S205              | 46        | 20.0  | 1257.0 | 0      | 없음  | 0.00 | 0       | 0  | 0.00 | 0.00 | 0.00     | -        | -     |                         |      |  |  |
| S230~S232              | 47        | 25.0  | 1282.0 | 0      | 없음  | 0.00 | 0       | 0  | 0.00 | 0.00 | 0.00     | -        | -     | 40.0                    |      |  |  |
| S256~S258              | 48        | 24.0  | 1306.0 | 0.2    | 없음  | 0.00 | 0       | 0  | 0.00 | 0.00 | 0.00     | -        | -     | 65.0                    |      |  |  |
| S283~S284              | 49        | 20.0  | 1326.0 | 0      | 없음  | 0.00 | 0       | 0  | 0.00 | 0.00 | 0.00     | -        | -     | 62.5                    |      |  |  |
| S297~S298              | 50        | 20.0  | 1346.0 | 0      | 없음  | 0.00 | 0       | 0  | 0.00 | 0.00 | 0.00     | -        | -     |                         |      |  |  |
| S302~S304              | 51        | 23.0  | 1369.0 | 0      | 없음  | 0.00 | 0       | 0  | 0.00 | 0.00 | 0.00     | -        | -     | 30.0                    |      |  |  |
| S305~S307              | 52        | 19.0  | 1388.0 | 0      | 없음  | 0.00 | 0       | 0  | 0.00 | 0.00 | 0.00     | -        | -     |                         |      |  |  |
| S308~S310              | 53        | 30.0  | 1418.0 | 0      | 없음  | 0.00 | 0       | 0  | 0.00 | 0.00 | 0.00     | -        | -     |                         |      |  |  |
| S311~S313              | 54        | 20.0  | 1438.0 | 0      | 없음  | 0.00 | 0       | 0  | 0.00 | 0.00 | 0.00     | -        | -     |                         |      |  |  |
| S314~S316              | 55        | 24.0  | 1462.0 | 0      | 없음  | 0.00 | 0       | 5  | 0.00 | 0.00 | 0.00     | -        | -     |                         |      |  |  |
| S317~S319              | 56        | 30.5  | 1492.5 | 0      | 없음  | 0.00 | 0       | 0  | 0.00 | 0.00 | 0.00     | -        | -     |                         |      |  |  |

[illegible][illegible]

2559.6

산 술  
평 균

산술  
평균

| 구분 | 라이닝     |      |                |      |             |      |          |          |      |   | 터널<br>주변     | 결함<br>점수 | 결함<br>지수<br>(A) | 연장비<br>(B) | 연장비<br>고려<br>결함지수<br>(A)*(B) |
|----|---------|------|----------------|------|-------------|------|----------|----------|------|---|--------------|----------|-----------------|------------|------------------------------|
|    | 라인<br>명 | 두수   | 파손<br>및 손<br>상 | 재질열화 |             |      |          |          |      |   |              |          |                 |            |                              |
|    |         |      |                | 바닥   | 중분리<br>및 박락 | 배토   | 재료<br>분리 | 철근<br>노출 | 탄산화  | - |              |          |                 |            |                              |
| 철근 | 1.83    | 0.02 | 0.00           | 0.00 | 0.00        | 0.00 | 0.00     | 0.01     | 0.00 | - | 2.00         | 3.86     | 0.09            | 1.000      | 0.094                        |
|    |         |      |                |      |             |      |          |          |      |   | 결함지수         |          |                 | 0.094      |                              |
|    |         |      |                |      |             |      |          |          |      |   | 기본시설 상태평가 결과 |          |                 | a          |                              |

| 터널현황     |  | 배열수식 : ctrl+shift+enter |  |      |  |       |  |     |  |    |  |      | 균열 |   |  |    |  |       |  |      | 누수 |      |  |   |  |   |  |   | 파손 |   |  |   |  |   |  |   | 바리 |   |  |   |  |   |  |   | 리 및 |   |  |   |  |   |  |       | 배태 |       |  |       |  |  |  |  | 재료 |  |  |  |  |  |  |  | 철근 |  |  |  |  |  |  |  | 노출 |  |  |  |  |  |  |  | 탄산화 |  |  |  |  |  |  |  | 염화물 |  |  |  |  |  |  |  |
|----------|--|-------------------------|--|------|--|-------|--|-----|--|----|--|------|----|---|--|----|--|-------|--|------|----|------|--|---|--|---|--|---|----|---|--|---|--|---|--|---|----|---|--|---|--|---|--|---|-----|---|--|---|--|---|--|-------|----|-------|--|-------|--|--|--|--|----|--|--|--|--|--|--|--|----|--|--|--|--|--|--|--|----|--|--|--|--|--|--|--|-----|--|--|--|--|--|--|--|-----|--|--|--|--|--|--|--|
|          |  | 연장                      |  | 균열   |  | 누수    |  | 파손  |  | 바리 |  | 리 및  |    |   |  |    |  |       |  |      |    |      |  |   |  |   |  |   |    |   |  |   |  |   |  |   |    |   |  |   |  |   |  |   |     |   |  |   |  |   |  |       |    |       |  |       |  |  |  |  |    |  |  |  |  |  |  |  |    |  |  |  |  |  |  |  |    |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |
| 시점측BOX구간 |  | mm                      |  | 정도   |  | 손상도   |  | mm  |  | mm |  | %    |    | % |  | mm |  | kg/m³ |  | b    |    | a    |  | a |  | a |  | a |    | a |  | a |  | a |  | x |    | x |  | 4 |  | 0 |  | 0 |     | 0 |  | 0 |  | 0 |  | 0     |    | 4.000 |  | 0.111 |  |  |  |  |    |  |  |  |  |  |  |  |    |  |  |  |  |  |  |  |    |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |
| B01      |  | 1                       |  | 40.0 |  | 40.0  |  | 0.2 |  | 없음 |  | 0.00 |    | 0 |  | 0  |  | 0.00  |  | 0.00 |    | 0.00 |  | - |  | - |  | b |    | a |  | a |  | a |  | a |    | a |  | x |  | x |  | 4 |     | 0 |  | 0 |  | 0 |  | 0     |    | 4.000 |  | 0.111 |  |  |  |  |    |  |  |  |  |  |  |  |    |  |  |  |  |  |  |  |    |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |
| B02      |  | 2                       |  | 40.0 |  | 80.0  |  | 0.2 |  | 없음 |  | 0.00 |    | 0 |  | 0  |  | 0.00  |  | 0.00 |    | 0.00 |  | - |  | - |  | b |    | a |  | a |  | a |  | a |    | a |  | x |  | x |  | 4 |     | 0 |  | 0 |  | 0 |  | 0     |    | 4.000 |  | 0.111 |  |  |  |  |    |  |  |  |  |  |  |  |    |  |  |  |  |  |  |  |    |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |
| B03      |  | 3                       |  | 40.0 |  | 120.0 |  | 0.2 |  | 없음 |  | 0.00 |    | 0 |  | 0  |  | 0.00  |  | 0.00 |    | 0.00 |  | - |  | - |  | b |    | a |  | a |  | a |  | a |    | a |  | x |  | x |  | 4 |     | 0 |  | 0 |  | 0 |  | 0     |    | 4.000 |  | 0.111 |  |  |  |  |    |  |  |  |  |  |  |  |    |  |  |  |  |  |  |  |    |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |
| B04      |  | 4                       |  | 40.0 |  | 160.0 |  | 0.2 |  | 없음 |  | 0.00 |    | 0 |  | 0  |  | 0.00  |  | 0.00 |    | 0.00 |  | - |  | - |  | b |    | a |  | a |  | a |  | a |    | a |  | x |  | x |  | 4 |     | 0 |  | 0 |  | 0 |  | 0     |    | 4.000 |  | 0.111 |  |  |  |  |    |  |  |  |  |  |  |  |    |  |  |  |  |  |  |  |    |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |
| B05      |  | 5                       |  | 40.0 |  | 200.0 |  | 0.2 |  | 없음 |  | 0.00 |    | 0 |  | 0  |  | 0.00  |  | 0.00 |    | 0.00 |  | - |  | - |  | b |    | a |  | a |  | a |  | a |    | a |  | x |  | x |  | 4 |     | 0 |  | 0 |  | 0 |  | 0     |    | 4.000 |  | 0.111 |  |  |  |  |    |  |  |  |  |  |  |  |    |  |  |  |  |  |  |  |    |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |
| B06      |  | 6                       |  | 40.0 |  | 240.0 |  | 0.1 |  | 없음 |  | 0.00 |    | 0 |  | 0  |  | 0.00  |  | 0.00 |    | 0.00 |  | - |  | - |  | a |    | a |  | a |  | a |  | a |    | a |  | x |  | x |  | 0 |     | 0 |  | 0 |  | 0 |  | 0.000 |    | 0.000 |  |       |  |  |  |  |    |  |  |  |  |  |  |  |    |  |  |  |  |  |  |  |    |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |
| B07      |  | 7                       |  | 11.0 |  | 251.0 |  | 0.2 |  | 없음 |  | 0.00 |    | 0 |  | 0  |  | 0.00  |  | 0.00 |    | 0.00 |  | - |  | - |  | b |    | a |  | a |  | a |  | a |    | a |  | x |  | x |  | 4 |     | 0 |  | 0 |  | 0 |  | 0     |    | 4.000 |  | 0.111 |  |  |  |  |    |  |  |  |  |  |  |  |    |  |  |  |  |  |  |  |    |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |
| BU01     |  | 8                       |  | 20.5 |  | 271.5 |  | 0.2 |  | 없음 |  | 0.00 |    | 0 |  | 0  |  | 0.00  |  | 0.00 |    | 0.00 |  | - |  | - |  | b |    | a |  | a |  | a |  | a |    | a |  | x |  | x |  | 4 |     | 0 |  | 0 |  | 0 |  | 0     |    | 4.000 |  | 0.111 |  |  |  |  |    |  |  |  |  |  |  |  |    |  |  |  |  |  |  |  |    |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |
| BU02     |  | 9                       |  | 20.5 |  | 292.0 |  | 0.2 |  | 없음 |  | 0.00 |    | 0 |  | 0  |  | 0.00  |  | 0.00 |    | 0.00 |  | - |  | - |  | b |    | a |  | a |  | a |  | a |    | a |  | x |  | x |  | 4 |     | 0 |  | 0 |  | 0 |  | 0     |    | 4.000 |  | 0.111 |  |  |  |  |    |  |  |  |  |  |  |  |    |  |  |  |  |  |  |  |    |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |
| BU03     |  | 10                      |  | 20.5 |  | 312.5 |  | 0.2 |  | 없음 |  | 0.00 |    | 0 |  | 0  |  | 0.00  |  | 0.00 |    | 0.00 |  | - |  | - |  | b |    | a |  | a |  | a |  | a |    | a |  | x |  | x |  | 4 |     | 0 |  | 0 |  | 0 |  | 0     |    | 4.000 |  | 0.111 |  |  |  |  |    |  |  |  |  |  |  |  |    |  |  |  |  |  |  |  |    |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |
| BU04     |  | 11                      |  | 20.5 |  | 333.0 |  | 0.2 |  | 없음 |  | 0.00 |    | 0 |  | 0  |  | 0.00  |  | 0.00 |    | 0.00 |  | - |  | - |  | b |    | a |  | a |  | a |  | a |    | a |  | x |  | x |  | 4 |     | 0 |  | 0 |  | 0 |  | 0     |    | 4.000 |  | 0.111 |  |  |  |  |    |  |  |  |  |  |  |  |    |  |  |  |  |  |  |  |    |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |
| BU05     |  | 12                      |  | 20.5 |  | 353.5 |  | 0.2 |  | 없음 |  | 0.00 |    | 0 |  | 0  |  | 0.00  |  | 0.00 |    | 0.00 |  | - |  | - |  | b |    | a |  | a |  | a |  | a |    | a |  | x |  | x |  | 4 |     | 0 |  | 0 |  | 0 |  |       |    |       |  |       |  |  |  |  |    |  |  |  |  |  |  |  |    |  |  |  |  |  |  |  |    |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |

| 타일주변     |          |          |          |           |          |      | 라이닝  |        |      |                   |      |                |      |          |          |      | 타일<br>주변     | 결함<br>점수 | 결함<br>지수<br>(A) | 연장비<br>(B) | 연장비<br>고려<br>결함지수<br>(A')/(B) |
|----------|----------|----------|----------|-----------|----------|------|------|--------|------|-------------------|------|----------------|------|----------|----------|------|--------------|----------|-----------------|------------|-------------------------------|
| 구분       | 배수<br>상태 | 지반<br>상태 | 경문<br>상태 | 공동구<br>상태 | 특수<br>조건 | 합계   | 구분   | 근<br>열 | 누수   | 파손<br>및<br>손<br>상 | 재질열화 |                |      |          |          |      |              |          |                 |            |                               |
|          |          |          |          |           |          |      |      |        |      |                   | 박리   | 중분리<br>및<br>박락 | 배대   | 재료<br>분리 | 철근<br>노출 | 탄산화  |              |          |                 |            |                               |
| 결함<br>점수 | 0.0      | 1.0      | 0.5      | 0.5       | 0.0      | 2.0  |      |        |      |                   |      |                |      |          |          |      |              |          |                 |            |                               |
| 철근       | 3.80     | 0.05     | 0.00     | 0.00      | 0.00     | 0.00 | 0.00 | 0.00   | 0.00 | 0.00              | 0.00 | 0.00           | 0.00 | 0.00     | -        | 2.00 | 5.85         | 0.14     | 1.000           | 0.143      |                               |
|          |          |          |          |           |          |      |      |        |      |                   |      |                |      |          |          |      | 결함지수         |          | 0.143           |            |                               |
|          |          |          |          |           |          |      |      |        |      |                   |      |                |      |          |          |      | 기본시설 상태평가 결과 |          | a               |            |                               |

[illegible]

| 터널주변     |          |          |          |           |          |      | 라이닝  |        |      |                |      |             |      |          |          |      | 터널<br>주변     | 결함<br>점수 | 결함<br>수<br>(A) | 연장비<br>(B) | 연장비<br>고려<br>결함수<br>(A)/(B) |   |
|----------|----------|----------|----------|-----------|----------|------|------|--------|------|----------------|------|-------------|------|----------|----------|------|--------------|----------|----------------|------------|-----------------------------|---|
| 구분       | 배수<br>상태 | 지반<br>상태 | 경문<br>상태 | 공동구<br>상태 | 특수<br>조건 | 합계   | 구분   | 근<br>월 | 누수   | 파손<br>및 손<br>상 | 재질열화 |             |      |          |          |      |              |          |                |            |                             |   |
|          |          |          |          |           |          |      |      |        |      |                | 박리   | 충분리<br>및 박락 | 배대   | 재료<br>분리 | 철근<br>노출 | 탄산화  |              |          |                |            |                             | - |
| 결함<br>점수 | 0.0      | 1.0      | 0.5      | 0.5       | 0.0      | 2.0  |      |        |      |                |      |             |      |          |          |      |              |          |                |            |                             |   |
| 철근       | 0.29     | 0.07     | 0.00     | 0.00      | 0.00     | 0.00 | 0.00 | 0.00   | 0.00 | 0.00           | 0.00 | 0.00        | 0.00 | 0.00     | -        | 2.00 | 2.36         | 0.06     | 1.000          | 0.057      |                             |   |
|          |          |          |          |           |          |      |      |        |      |                |      |             |      |          |          |      | 결함수          |          | 0.057          |            |                             |   |
|          |          |          |          |           |          |      |      |        |      |                |      |             |      |          |          |      | 기본시설 상태평가 결과 |          | a              |            |                             |   |

가. NATM(무근)

|           |       | 터널현황 |        | ()  |      | ()      |    | ()  |      | ()    |   | 배열수식 : ctrl+shift+enter |   |   |   |   |  |
|-----------|-------|------|--------|-----|------|---------|----|-----|------|-------|---|-------------------------|---|---|---|---|--|
| SPAN      | Sheet | 연장   | 누적거리   | 균열  | 누수   | 파손 및 손상 | 바리 | 리 및 | 벽체   | 재료 분리 | - | -                       | - | - | - | - |  |
|           |       |      |        | mm  | 정도   | 손상도     | mm | mm  | %    | %     |   |                         |   |   |   |   |  |
| S001~S003 | 1     | 27.0 | 27.0   | 0   | 없음   | 0.00    | 0  | 0   | 1.00 | 0.00  | - | -                       | - | - | - | - |  |
| S004~S006 | 2     | 29.0 | 56.0   | 0.3 | 없음   | 0.00    | 0  | 0   | 1.00 | 0.00  | - | -                       | - | - | - | - |  |
| S007~S009 | 3     | 30.0 | 86.0   | 0   | 스며있음 | 0.00    | 0  | 0   | 0.00 | 0.00  | - | -                       | - | - | - | - |  |
| S010~S012 | 4     | 30.0 | 116.0  | 0   | 없음   | 0.00    | 0  | 0   | 0.00 | 0.00  | - | -                       | - | - | - | - |  |
| S078~S080 | 5     | 30.0 | 146.0  | 0.5 | 없음   | 0.00    | 0  | 0   | 0.00 | 0.00  | - | -                       | - | - | - | - |  |
| S081~S082 | 6     | 19.0 | 165.0  | 0   | 없음   | 0.00    | 0  | 0   | 0.00 | 0.00  | - | -                       | - | - | - | - |  |
| S092~S094 | 7     | 30.0 | 195.0  | 0   | 없음   | 0.00    | 0  | 0   | 0.00 | 0.00  | - | -                       | - | - | - | - |  |
| S095      | 8     | 10.0 | 205.0  | 0   | 없음   | 0.00    | 0  | 0   | 0.00 | 0.00  | - | -                       | - | - | - | - |  |
| S106~S108 | 9     | 30.0 | 235.0  | 0   | 없음   | 0.00    | 0  | 0   | 0.00 | 0.00  | - | -                       | - | - | - | - |  |
| S115~S117 | 10    | 30.0 | 265.0  | 0   | 없음   | 0.00    | 0  | 0   | 0.00 | 0.00  | - | -                       | - | - | - | - |  |
| S118~S120 | 11    | 30.0 | 295.0  | 0   | 없음   | 0.00    | 0  | 0   | 0.00 | 0.00  | - | -                       | - | - | - | - |  |
| S121      | 12    | 10.0 | 305.0  | 0   | 없음   | 0.00    | 0  | 0   | 0.00 | 0.00  | - | -                       | - | - | - | - |  |
| S125~S127 | 13    | 30.0 | 335.0  | 0   | 없음   | 0.00    | 0  | 0   | 0.00 | 0.00  | - | -                       | - | - | - | - |  |
| S128~S130 | 14    | 30.0 | 365.0  | 0   | 없음   | 0.00    | 0  | 0   | 0.00 | 0.00  | - | -                       | - | - | - | - |  |
| S131~S133 | 15    | 30.0 | 395.0  | 0   | 없음   | 0.00    | 0  | 0   | 0.00 | 0.00  | - | -                       | - | - | - | - |  |
| S134~S136 | 16    | 30.0 | 425.0  | 0.3 | 없음   | 0.00    | 0  | 0   | 0.00 | 0.00  | - | -                       | - | - | - | - |  |
| S137~S138 | 17    | 20.0 | 445.0  | 0   | 없음   | 0.00    | 0  | 0   | 0.00 | 0.00  | - | -                       | - | - | - | - |  |
| S151~S153 | 18    | 30.0 | 475.0  | 0   | 없음   | 0.00    | 0  | 0   | 0.00 | 0.00  | - | -                       | - | - | - | - |  |
| S154~S156 | 19    | 30.0 | 505.0  | 0   | 없음   | 0.00    | 0  | 0   | 0.00 | 0.00  | - | -                       | - | - | - | - |  |
| S157~S159 | 20    | 30.0 | 535.0  | 0   | 없음   | 0.00    | 0  | 0   | 0.00 | 0.00  | - | -                       | - | - | - | - |  |
| S160~S162 | 21    | 30.0 | 565.0  | 0   | 없음   | 0.00    | 0  | 0   | 0.00 | 0.00  | - | -                       | - | - | - | - |  |
| S165~S167 | 22    | 30.0 | 595.0  | 0   | 없음   | 0.00    | 0  | 0   | 0.00 | 0.00  | - | -                       | - | - | - | - |  |
| S168~S170 | 23    | 30.0 | 625.0  | 0   | 없음   | 0.00    | 0  | 0   | 0.00 | 0.00  | - | -                       | - | - | - | - |  |
| S171~S173 | 24    | 30.0 | 655.0  | 0   | 없음   | 0.00    | 0  | 0   | 0.00 | 0.00  | - | -                       | - | - | - | - |  |
| S174~S176 | 25    | 30.0 | 685.0  | 0   | 없음   | 0.00    | 0  | 0   | 0.00 | 0.00  | - | -                       | - | - | - | - |  |
| S177~S179 | 26    | 30.0 | 715.0  | 0   | 없음   | 0.00    | 0  | 0   | 0.00 | 0.00  | - | -                       | - | - | - | - |  |
| S180~S181 | 27    | 20.0 | 735.0  | 0   | 없음   | 0.00    | 0  | 0   | 0.00 | 0.00  | - | -                       | - | - | - | - |  |
| S184~S186 | 28    | 30.0 | 765.0  | 0   | 없음   | 0.00    | 0  | 0   | 0.00 | 0.00  | - | -                       | - | - | - | - |  |
| S187~S189 | 29    | 30.0 | 795.0  | 0   | 없음   | 0.00    | 0  | 0   | 0.00 | 0.00  | - | -                       | - | - | - | - |  |
| S190~S192 | 30    | 30.0 | 825.0  | 0   | 없음   | 0.00    | 0  | 0   | 0.00 | 0.00  | - | -                       | - | - | - | - |  |
| S197      | 31    | 8.5  | 833.5  | 0   | 없음   | 0.00    | 0  | 0   | 0.00 | 0.00  | - | -                       | - | - | - | - |  |
| S202      | 32    | 10.0 | 843.5  | 0   | 없음   | 0.00    | 0  | 0   | 0.00 | 0.00  | - | -                       | - | - | - | - |  |
| S205~S207 | 33    | 21.0 | 864.5  | 0   | 없음   | 0.00    | 0  | 0   | 0.00 | 0.00  | - | -                       | - | - | - | - |  |
| S208~S210 | 34    | 30.0 | 894.5  | 0   | 없음   | 0.00    | 0  | 0   | 0.00 | 0.00  | - | -                       | - | - | - | - |  |
| S211~S213 | 35    | 30.0 | 924.5  | 0   | 없음   | 0.00    | 0  | 0   | 0.00 | 0.00  | - | -                       | - | - | - | - |  |
| S214~S216 | 36    | 30.0 | 954.5  | 0   | 없음   | 0.00    | 0  | 0   | 0.00 | 0.00  | - | -                       | - | - | - | - |  |
| S217~S219 | 37    | 30.0 | 984.5  | 0.5 | 없음   | 0.00    | 0  | 0   | 0.00 | 0.00  | - | -                       | - | - | - | - |  |
| S220~S222 | 38    | 30.0 | 1014.5 | 0   | 없음   | 0.00    | 0  | 0   | 0.00 | 0.00  | - | -                       | - | - | - | - |  |
| S223~S225 | 39    | 30.0 | 1044.5 | 0   | 없음   | 0.00    | 0  | 0   | 0.00 | 0.00  | - | -                       | - | - | - | - |  |
| S226~S228 | 40    | 30.0 | 1074.5 | 0   | 없음   | 0.00    | 0  | 0   | 0.00 | 0.00  | - | -                       | - | - | - | - |  |
| S232~S234 | 41    | 26.0 | 1100.5 | 0   | 없음   | 0.00    | 0  | 0   | 0.00 | 0.00  | - | -                       | - | - | - | - |  |
| S235~S237 | 42    | 30.0 | 1130.5 | 0   | 없음   | 0.00    | 0  | 0   | 0.00 | 0.00  | - | -                       | - | - | - | - |  |
| S238~S240 | 43    | 30.0 | 1160.5 | 0.5 | 없음   | 0.00    | 0  | 0   | 0.00 | 0.00  | - | -                       | - | - | - | - |  |
| S241~S243 | 44    | 30.0 | 1190.5 | 0.5 | 없음   | 0.00    | 0  | 0   | 0.00 | 0.00  | - | -                       | - | - | - | - |  |
| S244~S246 | 45    | 30.0 | 1220.5 | 0.5 | 없음   | 0.00    | 0  | 0   | 0.00 | 0.00  | - | -                       | - | - | - | - |  |
| S247~S249 | 46    | 30.0 | 1250.5 | 0.5 | 없음   | 0.00    | 0  | 0   | 0.00 | 0.00  | - | -                       | - | - | - | - |  |
| S250~S252 | 47    | 30.0 | 1280.5 | 0   | 없음   | 0.00    | 0  | 0   | 0.00 | 0.00  | - | -                       | - | - | - | - |  |
| S253~S254 | 48    | 20.0 | 1300.5 | 0.5 | 없음   | 0.00    | 0  | 0   | 0.00 | 0.00  | - | -                       | - | - | - | - |  |
| S258~S260 | 49    | 26.5 | 1327.0 | 0.5 | 없음   | 0.00    | 0  | 0   | 0.00 | 0.00  | - | -                       | - | - | - | - |  |
| S261~S263 | 50    | 30.0 | 1357.0 | 0.5 | 없음   | 0.00    | 0  | 0   | 0.00 | 0.00  | - | -                       | - | - | - | - |  |
| S264~S266 | 51    | 30.0 | 1387.0 | 0.5 | 없음   | 0.00    | 0  | 0   | 0.00 | 0.00  | - | -                       | - | - | - | - |  |
| S267~S269 | 52    | 30.0 | 1417.0 | 0.5 | 없음   | 0.00    | 0  | 0   | 0.00 | 0.00  | - | -                       | - | - | - | - |  |
| S270~S272 | 53    | 30.0 | 1447.0 | 0.5 | 없음   | 0.00    | 0  | 0   | 0.00 | 0.00  | - | -                       | - | - | - | - |  |
| S273~S275 | 54    | 30.0 | 1477.0 | 0.5 | 없음   | 0.00    | 0  | 0   | 0.00 | 0.00  | - | -                       | - | - | - | - |  |
| S276~S278 | 55    | 30.0 | 1507.0 | 0.5 | 없음   | 0.00    | 0  | 0   | 0.00 | 0.00  | - | -                       | - | - | - | - |  |
| S279~S280 | 56    | 20.5 | 1527.5 | 0.5 | 없음   | 0.00    | 0  | 0   | 1.00 | 0.00  | - | -                       | - | - | - | - |  |
| S284~S286 | 57    | 26.0 | 1553.5 | 0   | 없음   | 0.00    | 0  | 0   | 0.00 | 0.00  | - | -                       | - | - | - | - |  |
| S287~S289 | 58    | 30.0 | 1583.5 | 0   | 없음   | 0.00    | 0  | 0   | 0.00 | 0.00  | - | -                       | - | - | - | - |  |

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5811.5

|      |   |   |   |   |   |   |   |   |   |
|------|---|---|---|---|---|---|---|---|---|
| 산술평균 | b | a | a | a | a | a | - | - | - |
|------|---|---|---|---|---|---|---|---|---|

|          |      |      |      |      |      |      |      |   |   |   |       |       |
|----------|------|------|------|------|------|------|------|---|---|---|-------|-------|
| 산술<br>평균 | 2.35 | 0.02 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | - | - | - | 2.365 | 0.088 |
|----------|------|------|------|------|------|------|------|---|---|---|-------|-------|

| 구분 | 라이닝  |      |         |      |                |      |          |   |   | 타일<br>주변 | 결합<br>접수     | 결합<br>지수<br>(A) | 연장비<br>(B) | 연장비<br>고려<br>결합지수<br>(A)*(B) |       |
|----|------|------|---------|------|----------------|------|----------|---|---|----------|--------------|-----------------|------------|------------------------------|-------|
|    | 관열   | 누수   | 파손<br>상 | 재질열화 |                |      |          |   |   |          |              |                 |            |                              |       |
|    |      |      |         | 바리   | 충분리<br>및<br>박락 | 배태   | 재료<br>분리 | - | - |          |              |                 |            |                              | -     |
| 철근 | 2.35 | 0.02 | 0.00    | 0.00 | 0.00           | 0.00 | 0.00     | - | - | -        | 2.00         | 4.36            | 0.13       | 1.000                        | 0.128 |
|    |      |      |         |      |                |      |          |   |   |          | 결합지수         |                 |            | 0.128                        |       |
|    |      |      |         |      |                |      |          |   |   |          | 기본시설 상태평가 결과 |                 |            | a                            |       |

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터널현황

SPAN

Sheet

연장

누적거리

굴열

누수

파손 및 손상

박리

리 및

백태

재료 분리

철근 노출

탄산화

염화물

mm

정도

손상도

mm

mm

%

%

%

mm

kg/m³

S013~S015

1

30.0

30.0

0

없음

0.00

0

0

0.00

0.00

0.00

-

-

S016~S018

2

19.0

49.0

0.2

스며있음

0.00

0

0

1.00

0.00

0.00

-

-

S019~S021

3

30.0

79.0

0.2

없음

0.00

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S043~S045

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S046~S048

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S049~S051

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S052~S054

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S055~S057

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S058~S060

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S061~S063

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S064~S066

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S067~S069

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S070~S072

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S073~S075

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S076~S077

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S083~S085

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S086~S088

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S089~S091

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S096~S098

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S099~S101

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S102~S104

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S109~S111

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S112~S114

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S122~S124

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S139~S141

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S142~S144

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S145~S147

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S148~S150

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S163~S164

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S182~S183

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굴열

누수

파손

박리

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|------------------------|-----------|--------|--------|--------|-----|------|------|---|------|------|------|------|------|---|---|
| N<br>AT<br>M<br>구<br>지 | S193~S195 | 39     | 30.5   | 1079.2 | 0   | 없음   | 0.00 | 0 | 0    | 0.00 | 0.00 | 0.00 | -    | - | - |
|                        | S196      | 40     | 10.0   | 1089.2 | 0   | 없음   | 0.00 | 0 | 0    | 0.00 | 0.00 | 0.00 | -    | - | - |
|                        | S198~S200 | 41     | 29.5   | 1118.7 | 0   | 없음   | 0.00 | 0 | 0    | 0.00 | 0.00 | 0.00 | -    | - | - |
|                        | S201      | 42     | 10.0   | 1128.7 | 0   | 없음   | 0.00 | 0 | 0    | 0.00 | 0.00 | 0.00 | -    | - | - |
|                        | S203~S204 | 43     | 20.0   | 1148.7 | 0   | 없음   | 0.00 | 0 | 0    | 0.00 | 0.00 | 0.00 | -    | - | - |
|                        | S229~S231 | 44     | 25.0   | 1173.7 | 0   | 없음   | 0.00 | 0 | 0    | 0.00 | 0.00 | 0.00 | -    | - | - |
|                        | S255~S257 | 45     | 23.5   | 1197.2 | 0.5 | 없음   | 0.00 | 0 | 0    | 0.00 | 0.00 | 0.00 | -    | - | - |
|                        | S281~S283 | 46     | 24.0   | 1221.2 | 0.1 | 없음   | 0.00 | 0 | 0    | 0.00 | 0.00 | 0.00 | -    | - | - |
|                        | S295~S297 | 47     | 24.5   | 1245.7 | 0   | 없음   | 0.00 | 0 | 0    | 0.00 | 0.00 | 0.00 | -    | - | - |
|                        | S305~S307 | 48     | 14.4   | 1260.1 | 0   | 없음   | 0.00 | 0 | 0    | 0.00 | 0.00 | 0.00 | -    | - | - |
|                        | S308~S310 | 49     | 25.0   | 1285.1 | 0   | 없음   | 0.00 | 0 | 0    | 0.00 | 0.00 | 0.00 | -    | - | - |
|                        | S311~S313 | 50     | 30.5   | 1315.6 | 0.5 | 없음   | 0.00 | 0 | 0    | 0.00 | 0.00 | 0.00 | 64.0 | - | - |
|                        | S314~S316 | 51     | 26.0   | 1341.6 | 0   | 없음   | 0.00 | 0 | 0    | 0.00 | 0.00 | 0.00 | -    | - | - |
|                        | S317~S319 | 52     | 30.0   | 1371.6 | 0   | 없음   | 0.00 | 0 | 0    | 0.00 | 0.00 | 0.00 | -    | - | - |
|                        | S328~S330 | 53     | 21.0   | 1392.6 | 0   | 없음   | 0.00 | 0 | 0    | 0.00 | 0.00 | 0.00 | -    | - | - |
|                        | S349~S351 | 54     | 20.0   | 1412.6 | 0   | 없음   | 0.00 | 0 | 0    | 0.00 | 0.00 | 0.00 | 35.5 | - | - |
|                        | S375~S377 | 55     | 20.5   | 1433.1 | 0   | 없음   | 0.00 | 0 | 0    | 0.00 | 0.00 | 0.00 | 30.0 | - | - |
|                        | S401~S403 | 56     | 20.0   | 1453.1 | 0   | 없음   | 0.00 | 0 | 0    | 0.00 | 0.00 | 0.00 | -    | - | - |
|                        | S428~S429 | 57     | 20.0   | 1473.1 | 0   | 없음   | 0.00 | 0 | 0    | 0.00 | 0.00 | 0.00 | 35.0 | - | - |
|                        | S453~S455 | 58     | 24.5   | 1497.6 | 0.5 | 없음   | 0.00 | 0 | 0    | 0.00 | 0.00 | 0.00 | -    | - | - |
|                        | S479~S481 | 59     | 24.5   | 1522.1 | 0   | 없음   | 0.00 | 0 | 0    | 0.00 | 0.00 | 0.00 | -    | - | - |
|                        | S482      | 60     | 6.5    | 1528.6 | 0   | 없음   | 0.00 | 0 | 0    | 0.00 | 0.00 | 0.00 | -    | - | - |
|                        | S505~S506 | 61     | 19.0   | 1547.6 | 0   | 없음   | 0.00 | 0 | 0    | 0.00 | 0.00 | 0.00 | 35.5 | - | - |
|                        | S532~S533 | 62     | 17.0   | 1564.6 | 0   | 없음   | 0.00 | 0 | 0    | 0.00 | 0.00 | 0.00 | 33.0 | - | - |
|                        | S557~S558 | 63     | 19.0   | 1583.6 | 0   | 스머웃음 | 0.00 | 0 | 0    | 0.00 | 0.00 | 0.00 | 42.0 | - | - |
|                        | S581~S582 | 64     | 20.0   | 1603.6 | 0   | 없음   | 0.00 | 0 | 0    | 0.00 | 0.00 | 0.00 | 37.0 | - | - |
| S587~S589              | 65        | 30.0   | 1633.6 | 0.5    | 없음  | 0.00 | 0    | 0 | 0.00 | 0.00 | 0.00 | -    | -    | - |   |
| S590                   | 66        | 10.0   | 1643.6 | 0      | 없음  | 0.00 | 0    | 0 | 0.00 | 0.00 | 0.00 | -    | -    | - |   |
| S600~S602              | 67        | 40.0   | 1683.6 | 0      | 없음  | 0.00 | 0    | 0 | 0.00 | 0.00 | 0.00 | -    | -    | - |   |
| S603~S605              | 68        | 33.5   | 1717.1 | 0.3    | 없음  | 0.00 | 0    | 0 | 0.00 | 0.00 | 0.00 | -    | -    | - |   |
| S627~S628              | 69        | 18.5   | 1735.6 | 0      | 없음  | 0.00 | 0    | 0 | 0.00 | 0.00 | 0.00 | -    | -    | - |   |
| S653~S654              | 70        | 20.0   | 1755.6 | 0      | 없음  | 0.00 | 0    | 0 | 0.00 | 0.00 | 0.00 | -    | -    | - |   |
| S671~S672              | 71        | 20.0   | 1775.6 | 0      | 없음  | 0.00 | 0    | 0 | 0.00 | 0.00 | 0.00 | -    | -    | - |   |
| S691~S692              | 72        | 20.0   | 1795.6 | 0.3    | 없음  | 0.00 | 0    | 0 | 0.00 | 0.00 | 0.00 | -    | -    | - |   |
| S709~S711              | 73        | 30.0   | 1825.6 | 0      | 없음  | 0.00 | 0    | 0 | 0.00 | 0.00 | 0.00 | -    | -    | - |   |
| S728~S730              | 74        | 30.0   | 1855.6 | 0      | 없음  | 0.00 | 0    | 0 | 0.00 | 0.00 | 0.03 | 33.0 | -    | - |   |
| S747~S749              | 75        | 30.0   | 1885.6 | 0.5    | 없음  | 0.00 | 0    | 0 | 0.00 | 0.00 | 0.00 | -    | -    | - |   |
| S767~S769              | 76        | 30.0   | 1915.6 | 0      | 없음  | 0.00 | 0    | 0 | 0.00 | 0.00 | 0.00 | -    | -    | - |   |
| S786~S788              | 77        | 30.0   | 1945.6 | 0      | 없음  | 0.00 | 0    | 0 | 1.00 | 0.00 | 0.00 | -    | -    | - |   |
| S799~S801              | 78        | 30.0   | 1975.6 | 0.5    | 없음  | 0.00 | 0    | 0 | 0.00 | 0.00 | 0.00 | -    | -    | - |   |
| S802~S804              | 79        | 30.0   | 2005.6 | 0      | 없음  | 0.00 | 0    | 0 | 0.00 | 0.00 | 0.00 | -    | -    | - |   |
| S805~S807              | 80        | 26.5   | 2032.1 | 0      | 없음  | 0.00 | 0    | 0 | 0.00 | 0.00 | 0.00 | -    | -    | - |   |
| S808~S810              | 81        | 30.0   | 2062.1 | 0      | 없음  | 0.00 | 0    | 0 | 0.00 | 0.00 | 0.00 | -    | -    | - |   |
| S811~S813              | 82        | 30.0   | 2092.1 | 0.5    | 없음  | 0.00 | 0    | 0 | 0.00 | 0.00 | 0.00 | -    | -    | - |   |
| S814~S816              | 83        | 30.0   | 2122.1 | 0      | 없음  | 0.00 | 0    | 0 | 0.00 | 0.00 | 0.00 | -    | -    | - |   |
| S817~S819              | 84        | 30.0   | 2152.1 | 0      | 없음  | 0.00 | 0    | 0 | 0.00 | 0.00 | 0.00 | -    | -    | - |   |
| S820~S822              | 85        | 30.0   | 2182.1 | 0      | 없음  | 0.15 | 0    | 0 | 0.00 | 0.00 | 0.00 | -    | -    | - |   |
| S823                   | 86        | 6.0    | 2188.1 | 0      | 없음  | 0.00 | 0    | 0 | 1.00 | 0.00 | 0.00 | -    | -    | - |   |
|                        |           | 2188.1 |        |        |     |      |      |   |      |      |      |      |      |   |   |

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| 터널주변     |          |          |          |           |          |     |
|----------|----------|----------|----------|-----------|----------|-----|
| 구분       | 배수<br>상태 | 지반<br>상태 | 갱문<br>상태 | 공동구<br>상태 | 특수<br>조건 | 합계  |
| 결함<br>점수 | 0.0      | 1.0      | 0.5      | 0.5       | 0.0      | 2.0 |

| 구분 | 라이닝  |      |         |      |          |      |       |       |      |   | 디넨 주변        | 결합점수 | 결합지수(A) | 연장비(B) | 연장비 고려 결합지수(A)*(B) |
|----|------|------|---------|------|----------|------|-------|-------|------|---|--------------|------|---------|--------|--------------------|
|    | 굴절   | 두수   | 파손 및 손상 | 재질열화 |          |      |       |       |      |   |              |      |         |        |                    |
|    |      |      |         | 박리   | 중분리 및 박락 | 백태   | 재료 분리 | 철근 노출 | 탄산화  | - |              |      |         |        |                    |
| 철근 | 0.90 | 0.03 | 0.03    | 0.00 | 0.00     | 0.00 | 0.00  | 0.01  | 0.00 | - | 2.00         | 2.94 | 0.07    | 1.000  | 0.072              |
|    |      |      |         |      |          |      |       |       |      |   | 결합지수         |      |         | 0.072  |                    |
|    |      |      |         |      |          |      |       |       |      |   | 기본시험 상태평가 결과 |      |         | a      |                    |

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| 타일주변 |       |       |       |        |     |     |
|------|-------|-------|-------|--------|-----|-----|
| 구분   | 배수 상태 | 지반 상태 | 경관 상태 | 공동구 조건 | 특수  | 합계  |
| 결함점수 | 0.0   | 1.0   | 0.5   | 0.5    | 0.0 | 2.0 |

| 구분 | 라이닝  |      |         |      |          |      |       |       |      | 타일 주변 | 결합 점수        | 결함 지수 (A) | 연장비 (B) | 연장비 고려 결합지수 (A)*(B) |       |
|----|------|------|---------|------|----------|------|-------|-------|------|-------|--------------|-----------|---------|---------------------|-------|
|    | 관입   | 누수   | 파손 및 손상 | 재질열화 |          |      |       |       |      |       |              |           |         |                     |       |
|    |      |      |         | 바닥   | 중분리 및 벽각 | 벽태   | 재료 분리 | 철근 노출 | 탄산화  |       |              |           |         |                     | -     |
| 철근 | 4.00 | 0.29 | 0.00    | 0.00 | 0.00     | 0.00 | 0.00  | 0.00  | 0.00 | -     | 2.00         | 6.29      | 0.15    | 1.000               | 0.153 |
|    |      |      |         |      |          |      |       |       |      |       | 결함지수         |           |         |                     | 0.153 |
|    |      |      |         |      |          |      |       |       |      |       | 기본시설 상태평가 결과 |           |         |                     | b     |

[illegible]

| 터널주변  |       |       |       |        |       |     |
|-------|-------|-------|-------|--------|-------|-----|
| 구분    | 배수 상태 | 자반 상태 | 경문 상태 | 공동구 상태 | 특수 조건 | 합계  |
| 결함 점수 | 0.0   | 1.0   | 0.5   | 0.5    | 0.0   | 2.0 |

| 구분 | 라이닝  |      |         |         |          |      |       |       | 터널 주변 | 결함 점수 | 결함 지수 (A)    | 연장비 (B) | 연장비 고려 결함지수 (A)/(B) |       |
|----|------|------|---------|---------|----------|------|-------|-------|-------|-------|--------------|---------|---------------------|-------|
|    | 공열   | 누수   | 파손 및 손상 | 재질열화    |          |      |       |       |       |       |              |         |                     |       |
|    |      |      |         | 박리 및 박락 | 층분리 및 박락 | 백태   | 재료 분리 | 철근 노출 |       |       |              |         |                     |       |
|    |      |      |         |         |          |      |       |       |       |       |              |         |                     | 탄산화   |
| 철근 | 0.29 | 0.36 | 0.00    | 0.00    | 0.00     | 0.00 | 0.00  | 0.00  | -     | 2.00  | 2.64         | 0.06    | 1.000               | 0.064 |
|    |      |      |         |         |          |      |       |       |       |       | 결함지수         |         | 0.064               |       |
|    |      |      |         |         |          |      |       |       |       |       | 기본시설 상태평가 결과 |         | a                   |       |

## 서부간선지하도로의 상태평가결과

| 구 분  | 구조형식        | 환산<br>결함도점수 | 상태평가<br>결과 | 연장(m) | 차선 | 연장×차선  | 연장비   | 환산 결함도점수<br>× 연장비 |
|------|-------------|-------------|------------|-------|----|--------|-------|-------------------|
| 성산방향 | 가. NATM(무근) | 0.142       | a          | 5,440 | 2  | 10,880 | 0.306 | 0.043             |
|      | 나. NATM(철근) | 0.094       | a          | 2,560 | 2  | 5,119  | 0.144 | 0.014             |
|      | 다. 시점측 BOX  | 0.143       | a          | 654   | 2  | 1,308  | 0.037 | 0.005             |
|      | 라. 종점측 BOX  | 0.057       | a          | 430   | 2  | 860    | 0.024 | 0.001             |
| 일직방향 | 가. NATM(무근) | 0.128       | a          | 5,812 | 2  | 11,623 | 0.327 | 0.042             |
|      | 나. NATM(철근) | 0.072       | a          | 2,188 | 2  | 4,376  | 0.123 | 0.009             |
|      | 다. 시점측 BOX  | 0.153       | b          | 280   | 2  | 560    | 0.016 | 0.002             |
|      | 라. 종점측 BOX  | 0.064       | a          | 430   | 2  | 860    | 0.024 | 0.002             |
|      |             |             |            |       |    |        |       | 0.118             |
|      |             |             |            |       |    |        |       | A                 |