

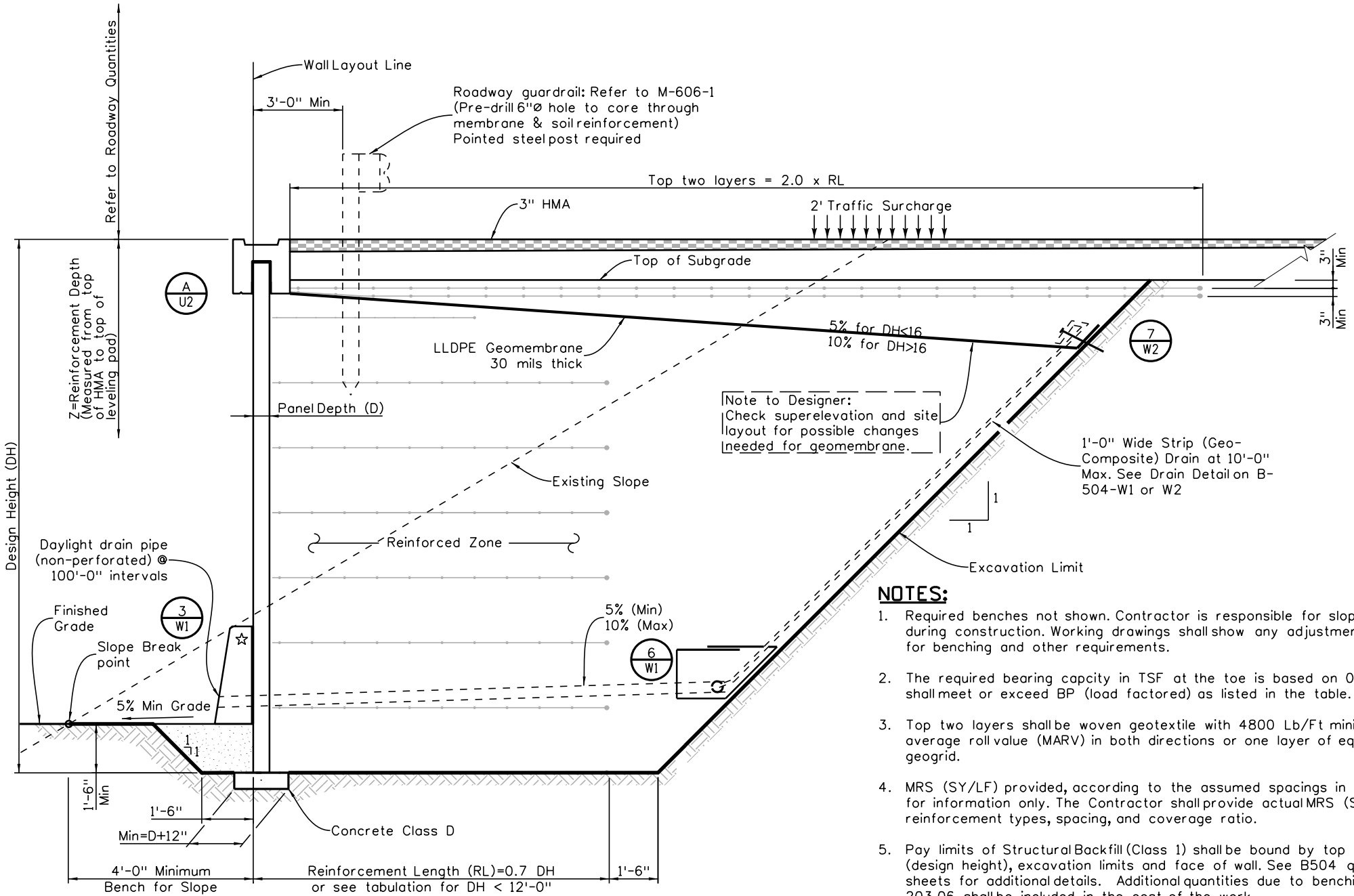
B-504-E1

(This sheet must be accompanied with B-504-H2)

| DH<br>(Ft) | RL**<br>(Ft) | MRS<br>(CY/LF) | MRS<br>(SY/LF) | BM1<br>(CY/LF) | PLG<br>(Ft/LF) | BP<br>(TSF) |
|------------|--------------|----------------|----------------|----------------|----------------|-------------|
| 2.000      | 6.000        | 0.444          | 2.667          | 0.755          | 9.500          | 0.417       |
| 2.667      | 6.000        | 0.593          | 3.333          | 0.997          | 10.167         | 0.482       |
| 3.333      | 6.000        | 0.741          | 3.333          | 1.257          | 10.833         | 0.550       |
| 4.000      | 6.000        | 0.889          | 4.000          | 1.532          | 11.500         | 0.624       |
| 4.667      | 6.000        | 1.037          | 4.000          | 1.825          | 12.167         | 0.702       |
| 5.333      | 6.000        | 1.185          | 4.000          | 2.133          | 12.833         | 0.788       |
| 6.000      | 6.000        | 1.333          | 4.000          | 2.458          | 13.500         | 0.881       |
| 6.667      | 7.000        | 1.728          | 5.444          | 3.047          | 15.167         | 0.929       |
| 7.333      | 7.000        | 1.901          | 5.444          | 3.430          | 15.833         | 1.024       |
| 8.000      | 8.000        | 2.370          | 6.222          | 4.125          | 17.500         | 1.069       |
| 8.667      | 8.000        | 2.568          | 6.222          | 4.565          | 18.167         | 1.166       |
| 9.333      | 8.000        | 2.765          | 7.111          | 5.022          | 18.833         | 1.270       |
| 10.000     | 8.000        | 2.963          | 7.111          | 5.495          | 19.500         | 1.383       |
| 10.667     | 8.000        | 3.160          | 7.111          | 5.985          | 20.167         | 1.506       |
| 11.333     | 8.000        | 3.358          | 7.111          | 6.491          | 20.833         | 1.642       |
| 12.000     | 8.400        | 3.733          | 8.400          | 7.192          | 21.900         | 1.724       |
| 12.667     | 8.867        | 4.160          | 8.867          | 7.960          | 23.033         | 1.795       |
| 13.333     | 9.333        | 4.609          | 9.333          | 8.767          | 24.167         | 1.866       |
| 14.000     | 9.800        | 5.081          | 10.889         | 9.614          | 25.300         | 1.937       |
| 14.667     | 10.267       | 5.577          | 11.407         | 10.500         | 26.433         | 2.008       |
| 15.333     | 10.733       | 6.095          | 11.926         | 11.426         | 27.567         | 2.079       |
| *** 16.000 | 11.200       | 6.637          | 13.689         | 12.392         | 28.700         | 2.150       |
| 16.667     | 11.667       | 7.202          | 14.259         | 13.397         | 29.833         | 2.222       |
| 17.333     | 12.133       | 7.789          | 14.830         | 14.441         | 30.967         | 2.293       |
| 18.000     | 12.600       | 8.400          | 16.800         | 15.525         | 32.100         | 2.364       |
| 18.667     | 13.067       | 9.034          | 17.422         | 16.648         | 33.233         | 2.436       |
| 19.333     | 13.533       | 9.691          | 18.044         | 17.811         | 34.367         | 2.507       |
| 20.000     | 14.000       | 10.370         | 20.222         | 19.014         | 35.500         | 2.578       |
| 20.667     | 14.467       | 11.073         | 20.896         | 20.256         | 36.633         | 2.650       |
| 21.333     | 14.933       | 11.799         | 21.570         | 21.537         | 37.767         | 2.721       |
| 22.000     | 15.400       | 12.548         | 23.956         | 22.858         | 38.900         | 2.792       |
| 22.667     | 15.867       | 13.320         | 24.681         | 24.219         | 40.033         | 2.864       |
| 23.333     | 16.333       | 14.115         | 25.407         | 25.619         | 41.167         | 2.935       |
| 24.000     | 16.800       | 14.933         | 28.000         | 27.058         | 42.300         | 3.007       |
| 24.667     | 17.267       | 15.774         | 28.778         | 28.537         | 43.433         | 3.078       |
| 25.333     | 17.733       | 16.639         | 29.556         | 30.056         | 44.567         | 3.149       |
| 26.000     | 18.200       | 17.526         | 32.356         | 31.614         | 45.700         | 3.221       |
| 26.667     | 18.667       | 18.436         | 33.185         | 33.211         | 46.833         | 3.292       |
| 27.333     | 19.133       | 19.370         | 34.015         | 34.848         | 47.967         | 3.364       |
| 28.000     | 19.600       | 20.326         | 37.022         | 36.525         | 49.100         | 3.435       |
| 28.667     | 20.067       | 21.305         | 37.904         | 38.241         | 50.233         | 3.506       |
| 29.333     | 20.533       | 22.308         | 41.067         | 39.997         | 51.367         | 3.578       |
| 30.000     | 21.000       | 23.333         | 42.000         | 41.792         | 52.500         | 3.649       |
| 30.667     | 21.467       | 24.382         | 45.319         | 43.626         | 53.633         | 3.721       |
| 31.333     | 21.933       | 25.453         | 46.304         | 45.500         | 54.767         | 3.792       |
| 32.000     | 22.400       | 26.548         | 49.778         | 47.414         | 55.900         | 3.864       |
| 32.667     | 22.867       | 27.666         | 50.815         | 49.367         | 57.033         | 3.935       |
| 33.333     | 23.333       | 28.807         | 54.444         | 51.360         | 58.167         | 4.007       |
| 34.000     | 23.800       | 29.970         | 55.533         | 53.392         | 59.300         | 4.078       |
| 34.667     | 24.267       | 31.157         | 59.319         | 55.463         | 60.433         | 4.150       |
| 35.333     | 24.733       | 32.367         | 60.459         | 57.574         | 61.567         | 4.221       |
| 36.000     | 25.200       | 33.600         | 64.400         | 59.725         | 62.700         | 4.292       |
| 36.667     | 25.667       | 34.856         | 68.444         | 61.915         | 63.833         | 4.364       |
| 37.333     | 26.133       | 36.135         | 72.593         | 64.145         | 64.967         | 4.435       |
| 38.000     | 26.600       | 37.437         | 76.844         | 66.414         | 66.100         | 4.507       |
| 38.667     | 27.067       | 38.762         | 81.200         | 68.723         | 67.233         | 4.578       |
| 39.333     | 27.533       | 40.110         | 85.659         | 71.071         | 68.367         | 4.650       |
| 40.000     | 28.000       | 41.481         | 90.222         | 73.458         | 69.500         | 4.721       |

\*\* RL for top two geotextile layers = 2.0 x RL

\*\*\* For example spacing on B-504-H2: DH=16' requires 13.69 SY/LF reinforcement corresponding to 6.637 CY/LF volume of MRS with Class 1 backfill paid separately



NOTES:

1. Required benches not shown. Contractor is responsible for slope stability during construction. Working drawings shall show any adjustments needed for benching and other requirements.
2. The required bearing capacity in TSF at the toe is based on 0.7 DH and shall meet or exceed BP (load factored) as listed in the table.
3. Top two layers shall be woven geotextile with 4800 Lb/Ft minimum average roll value (MARV) in both directions or one layer of equivalent geogrid.
4. MRS (SY/LF) provided, according to the assumed spacings in B-504-H2, for information only. The Contractor shall provide actual MRS (SY/LF), soil reinforcement types, spacing, and coverage ratio.
5. Pay limits of Structural Backfill (Class 1) shall be bound by top of DH (design height), excavation limits and face of wall. See B504 quantity sheets for additional details. Additional quantities due to benching per 203.06 shall be included in the cost of the work.

SECTION VIEW

☆ Barrier required when located within clear zone. See M-606-15 Style CD for details.

| Revision Dates |       |
|----------------|-------|
| 09-16          | 10-24 |

| INITIALS   | DESIGN | DATE | DETAIL | DATE | QUANTITY | DATE |
|------------|--------|------|--------|------|----------|------|
| By         |        |      |        |      |          |      |
| Checked By |        |      |        |      |          |      |

All seals for this set of drawings are applied to the cover page(s)

|  |
|--|
| Print Date: \$DATE\$                       |
| File Name: Sheet_B-504-E1.dgn              |
| Horiz. Scale:      Vert. Scale: As Noted   |
| Unit Information      Unit Leader Initials |

| Sheet Revisions |          |       |
|-----------------|----------|-------|
| Date:           | Comments | Init. |
|                 |          |       |
|                 |          |       |
|                 |          |       |
|                 |          |       |

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Staff Bridge Branch

Initials

| As Constructed |
|----------------|
| No Revisions:  |
| Revised:       |
| Void:          |

PANEL FACING MSE WALL WITH ROADWAY RAIL AND 1:1 SOIL EXCAVATION

|                     |                           |
|---------------------|---------------------------|
| Designer: XXXXXXXXX | Structure XXXXXXXXXXXXX   |
| Detailer: XXXXXXXXX | Numbers XXXXXXXXXXXXX     |
| Sheet Subset: WALL  | Subset Sheets: WXX of XXX |

| Project No./Code |
|------------------|
|                  |
| Sheet Number     |
|                  |