

C:\Users\nguyenh\Desktop\Worksheet dgn and PDF\Sheet_B-504-01.dgn

| Revision Dates (Preliminary Stage Only) | |
|---|--|
| 09-16 | |

| Design | | Detail | | Quantities | |
|---------------|------------|---------|------|------------|------|
| Designed By | Checked By | INITIAL | DATE | INITIAL | DATE |
| | | | | | |
| Detailed By | Checked By | INITIAL | DATE | INITIAL | DATE |
| | | | | | |
| Quantities By | Checked By | INITIAL | DATE | INITIAL | DATE |
| | | | | | |

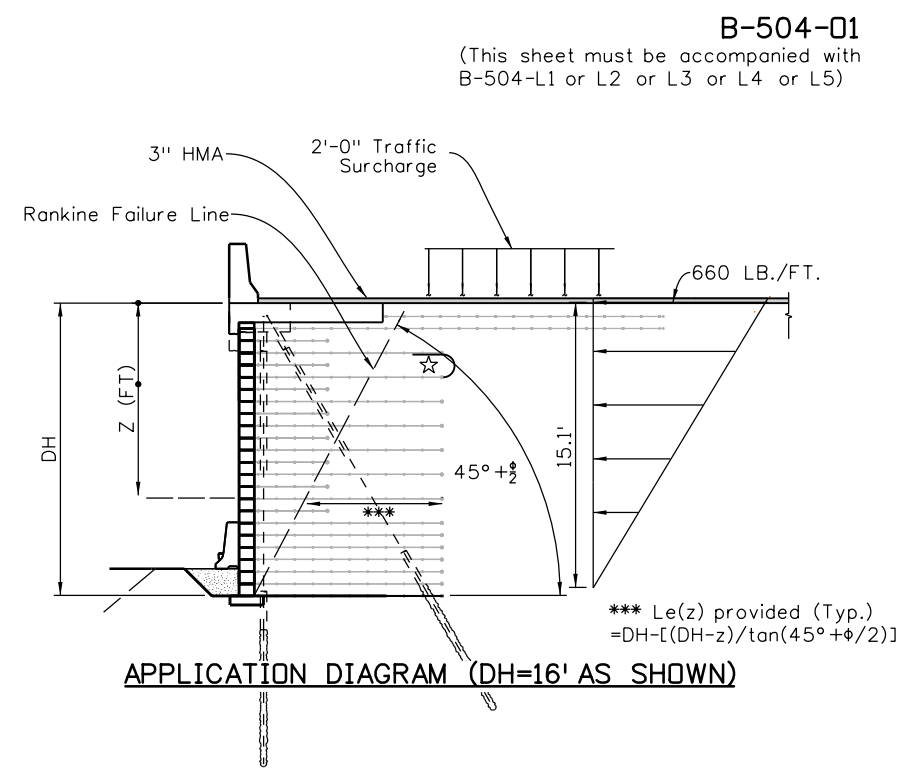
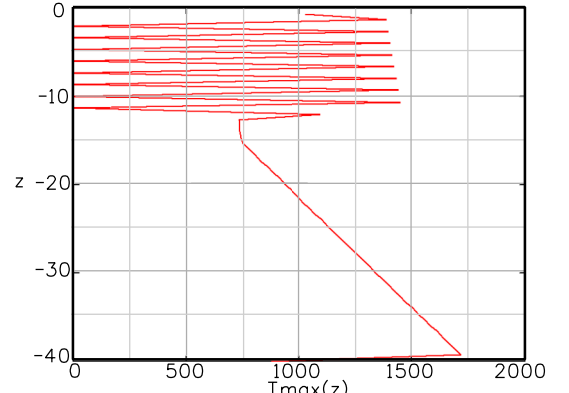
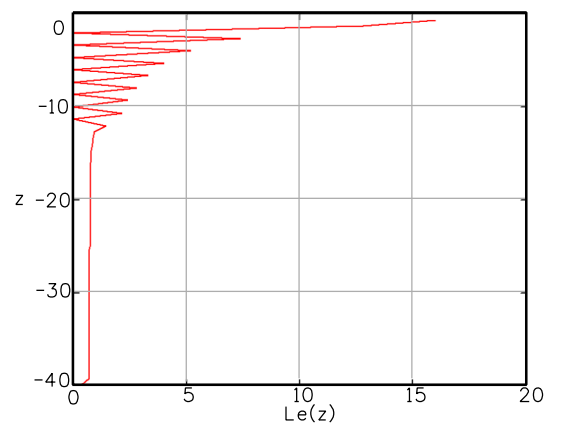
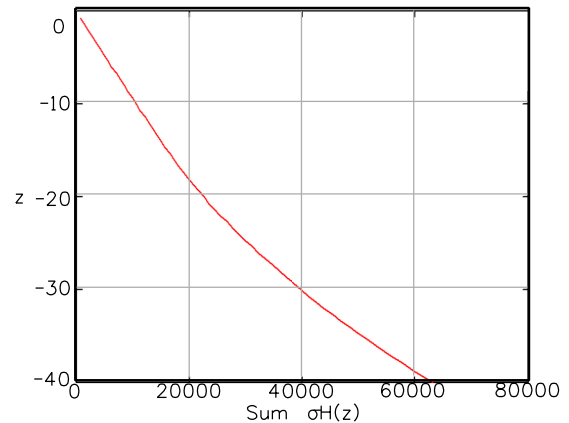
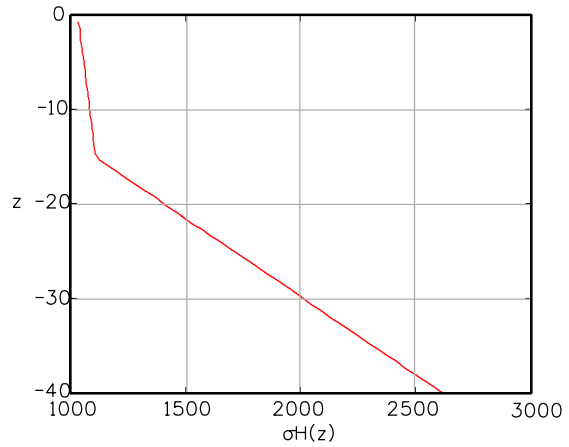
| DH or Z (FT) | # OF BLOCKS | σH (lb./Ft.) | $\Sigma \sigma H \times \text{spacing}$ (lb./Ft.) | RL TYPE | SPACING | Le (Ft.) |
|--------------|-------------|----------------------|---|---------|---------|----------|
| 0.667 | Coping | 1.03E+03 | 685.28 | TOP | 12" | 15.995 |
| 1.333 | 2 | 1.04E+03 | 1.38E+03 | TOP | 16" | 12.782 |
| 2.000 | 3 | 1.04E+03 | 2.07E+03 | TAIL | N/A | NA |
| 2.667 | 4 | 1.04E+03 | 2.77E+03 | FULL | 16" | 7.344 |
| 3.333 | 5 | 1.05E+03 | 3.46E+03 | TAIL | N/A | NA |
| 4.000 | 6 | 1.05E+03 | 4.17E+03 | FULL | 16" | 5.172 |
| 4.667 | 7 | 1.05E+03 | 4.87E+03 | TAIL | N/A | NA |
| 5.333 | 8 | 1.06E+03 | 5.57E+03 | FULL | 16" | 4.003 |
| 6.000 | 9 | 1.06E+03 | 6.28E+03 | TAIL | N/A | NA |
| 6.667 | 10 | 1.06E+03 | 6.99E+03 | FULL | 16" | 3.273 |
| 7.333 | 11 | 1.07E+03 | 7.70E+03 | TAIL | N/A | NA |
| 8.000 | 12 | 1.07E+03 | 8.42E+03 | FULL | 16" | 2.773 |
| 8.667 | 13 | 1.07E+03 | 9.13E+03 | TAIL | N/A | NA |
| 9.333 | 14 | 1.08E+03 | 9.85E+03 | FULL | 16" | 2.41 |
| 10.000 | 15 | 1.08E+03 | 1.06E+04 | TAIL | N/A | NA |
| 10.667 | 16 | 1.08E+03 | 1.13E+04 | FULL | 16" | 2.134 |
| 11.333 | 17 | 1.09E+03 | 1.20E+04 | TAIL | N/A | NA |
| 12.000 | 18 | 1.09E+03 | 1.28E+04 | FULL | 12" | 1.438 |
| 12.667 | 19 | 1.10E+03 | 1.35E+04 | FULL | 8" | 0.913 |
| 13.333 | 20 | 1.10E+03 | 1.42E+04 | FULL | 8" | 0.871 |
| 14.000 | 21 | 1.10E+03 | 1.49E+04 | FULL | 8" | 0.833 |
| 14.667 | 22 | 1.11E+03 | 1.57E+04 | FULL | 8" | 0.799 |
| 15.333 | 23 | 1.12E+03 | 1.64E+04 | FULL | 8" | 0.777 |
| 16.000 | 24 | 1.16E+03 | 1.72E+04 | FULL | 8" | 0.772 |
| 16.667 | 25 | 1.20E+03 | 1.80E+04 | FULL | 8" | 0.768 |
| 17.333 | 26 | 1.24E+03 | 1.88E+04 | FULL | 8" | 0.764 |
| 18.000 | 27 | 1.28E+03 | 1.97E+04 | FULL | 8" | 0.76 |
| 18.667 | 28 | 1.32E+03 | 2.06E+04 | FULL | 8" | 0.757 |
| 19.333 | 29 | 1.36E+03 | 2.15E+04 | FULL | 8" | 0.753 |
| 20.000 | 30 | 1.40E+03 | 2.24E+04 | FULL | 8" | 0.75 |
| 20.667 | 31 | 1.44E+03 | 2.34E+04 | FULL | 8" | 0.747 |
| 21.333 | 32 | 1.48E+03 | 2.44E+04 | FULL | 8" | 0.745 |
| 22.000 | 33 | 1.53E+03 | 2.54E+04 | FULL | 8" | 0.742 |
| 22.667 | 34 | 1.57E+03 | 2.64E+04 | FULL | 8" | 0.74 |
| 23.333 | 35 | 1.61E+03 | 2.75E+04 | FULL | 8" | 0.738 |
| 24.000 | 36 | 1.65E+03 | 2.86E+04 | FULL | 8" | 0.736 |
| 24.667 | 37 | 1.69E+03 | 2.97E+04 | FULL | 8" | 0.734 |
| 25.333 | 38 | 1.73E+03 | 3.09E+04 | FULL | 8" | 0.732 |
| 26.000 | 39 | 1.77E+03 | 3.20E+04 | FULL | 8" | 0.73 |
| 26.667 | 40 | 1.81E+03 | 3.33E+04 | FULL | 8" | 0.728 |
| 27.333 | 41 | 1.85E+03 | 3.45E+04 | FULL | 8" | 0.727 |
| 28.000 | 42 | 1.89E+03 | 3.57E+04 | FULL | 8" | 0.725 |
| 28.667 | 43 | 1.93E+03 | 3.70E+04 | FULL | 8" | 0.724 |
| 29.333 | 44 | 1.97E+03 | 3.83E+04 | FULL | 8" | 0.722 |
| 30.000 | 45 | 2.01E+03 | 3.97E+04 | FULL | 8" | 0.721 |
| 30.667 | 46 | 2.05E+03 | 4.10E+04 | FULL | 8" | 0.72 |
| 31.333 | 47 | 2.09E+03 | 4.24E+04 | FULL | 8" | 0.719 |
| 32.000 | 48 | 2.13E+03 | 4.39E+04 | FULL | 8" | 0.717 |
| 32.667 | 49 | 2.17E+03 | 4.53E+04 | FULL | 8" | 0.716 |
| 33.333 | 50 | 2.21E+03 | 4.68E+04 | FULL | 8" | 0.715 |
| 34.000 | 51 | 2.25E+03 | 4.83E+04 | FULL | 8" | 0.714 |
| 34.667 | 52 | 2.29E+03 | 4.98E+04 | FULL | 8" | 0.713 |
| 35.333 | 53 | 2.33E+03 | 5.14E+04 | FULL | 8" | 0.712 |
| 36.000 | 54 | 2.37E+03 | 5.29E+04 | FULL | 8" | 0.711 |
| 36.667 | 55 | 2.41E+03 | 5.45E+04 | FULL | 8" | 0.71 |
| 37.333 | 56 | 2.45E+03 | 5.62E+04 | FULL | 8" | 0.709 |
| 38.000 | 57 | 2.49E+03 | 5.78E+04 | FULL | 8" | 0.709 |
| 38.667 | 58 | 2.53E+03 | 5.95E+04 | FULL | 8" | 0.708 |
| 39.333 | 59 | 2.57E+03 | 6.12E+04 | FULL | 8" | 0.707 |
| 40.000 | 60 | 2.61E+03 | 6.30E+04 | FULL | 4" | 0.353 |

Note: Le of top two layers are not developed, layers used for avoiding roadway tension cracks.

* Summation of σH above Z including rail impact.

** Tributary spacing.

☆ Example looped geotextile layer for meeting pullout.



Note to Designer:
Refer to Bridge Design Manual (BDM) for Design Criteria and Examples

| | |
|---|------|
| Print Date: 9/6/2016 | 0000 |
| File Name: Sheet_LB-504-01.dgn | |
| Horiz. Scale: As Noted Vert. Scale: As Noted | |
| Staff Bridge Branch-Unit OXXX Unit Leader Initials | |

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

Colorado Department of Transportation
4201 East Arkansas Avenue
Room 107
Denver, CO 80222
Phone: 303-757-9309 FAX: 303-757-9197

Staff Bridge Branch Initials

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

| | | | |
|---|---------|-------------------|----------------------|
| LRFD GRS WALL WITH RAIL ANCHOR SLAB/B EAM DESIGN CHARTS/TABLE | | | |
| Designer: | XXXXXXX | Structure Numbers | Wall-X-XX-XX |
| Detailer: | XXXXXXX | Subset Sheets: | Wall WXX of XXX |

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