APPENDIX B STRUCTURAL SKETCHES



| FORT NEGLEY |  |  |  |  |  |  |  |  |  | $\xrightarrow{\sim}$ |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| DESIGNATION | LOCATIONS | SEGMENT | MEASUREMENTS AND PLUMBNESS |  |  |  | $\begin{aligned} & \text { GLOBAL } \\ & \text { PROFIL } \end{aligned}$ | INTERPRETATION | COMMENTS |  |  |
|  |  |  | A | B | C | D | E |  |  |  |  |
|  |  |  | HEIGHT（FT） | TOP（IN） | MIDDLE（IN） | BOTTOM（IN） | （H：V） |  |  |  |  |
| （1） | REDAN 5 | WEST FACE | 5.5 | 12 | 6 | 6 | 0.09 | BULGE |  |  |  |
| （2） | REDAN 5 | CORNER | 6 | 9 | 7.5 | 6.5 | 0.03 | BATEE | TREE ROOT |  |  |
| （3） | REDAN 5 | NORTH FACE | 7.0833 | 14.5 | 9.5 | 10.5 | 0.05 | BULGE |  |  |  |
| （4） | REDAN 6 | WEST FACE | 5.5 | 12 | 11 | 10 | 0.03 | BULGE |  |  |  |
| （5） | REDAN 6 | EAST FACE | 7.583 | 21 | 13 | 10 | 0.12 | BULGE |  |  |  |
| 6） | REDAN 6 | EAST FACE | 4.375 | 14 | 13 | 12 | 0.04 | BATER | TREE ROOT | O |  |
| 7） | REDAN 7 | NORTH FACE | 5 | 11.5 | 12.25 | 11.5 | 0.00 | BULGE |  | － | U |
| （8） | REDAN 7 | EAST FACE | 4.833 | 9.75 | 12 | 11 | －0．02 | OUT－OF－PLANE |  |  | $\stackrel{\rightharpoonup}{a}$ |
| （9） | REDAN 8 | NORTH FACE | 4.583 | 12.25 | 10.25 | 9.25 | 0.05 | BATTER |  | $\infty$ |  |
| （10） | REDAN 8 | NORTH FACE | 6.2083 | 16 | 7.5 | 8 | 0.11 | BULGE |  | $\cdots$ | 这 |
| （11） | REDAN 8 | SOUTH EAST CORNER | 6.1667 | 13.5 | 9.5 | 5 | 0.11 | BATTER |  | $\stackrel{\square}{z}$ | $\mathbb{N} \frac{\bar{Z}}{\frac{\mathrm{Z}}{10}}$ |
| （12） | EAST BASTION | EAST FACE | 10 | 15 | 10.5 | 12.5 | 0.02 | BULGE | SOUTH OF NORTH PARTIAL COLLAPSE | $\pm$ | ${ }^{( }$ |
| （13） | EAST BASTION | EAST FACE | 9 | 13.5 | 11.5 | 11.5 | 0.02 | BULGE | NORTH OF SOUTH PARTIAL COLLAPSE | \＃ | \｜\｜ |
| （14） | EAST BASTION | EAST FACE | 6 | 3.25 | 3.5 | 2.75 | 0.01 | OUT－OF－PLANE | TEST PIT 1；24＂WIDE CAPSTONE；PLUMBNESS＠2＇AND 4＇BELOW GRADE＝2＂AND 3＂，RESPECTIVELY | $\geq$ | 袁 |
| （15） | EAST BASTION | SOUTH FACE | 6.25 | 5.5 | 7 | 8.5 | －0．04 | OUT－OF－PLANE | TREE ROOT | 山 | ） |
| （16） | EAST BASTION | SOUTH FACE | 5.167 | 3.25 | 4.5 | 6.5 | －0．05 | OUT－OF－PLANE | $17^{\prime \prime}$ WIDE CAPSTONE | $\underline{\sim}$ | － |
| （17） | SOUTH SCARP | EAST | 10 | 10 | 8 | 8.5 | 0.01 | BULGE |  | $\bigcirc$ | $)$ |
| （18） | SOUTH SCARP | CENTER | 10 | 6.75 | 3.125 | 8.5 | －0．01 | BULGE | TEST PIT 2 | 0 | 丐 |
| 19） | SOUTH SCARP | WEST | 10 | 13 | 8.5 | 9 | 0.03 | BULGE | PLUMBNESS＠2＇ABOVE BOTTOM＝5．5＂ | 4 | － |
| $20)$ | WEST BASTION | EAST FACE | 6.5 | 6.5 | 5.5 | 9 | －0．03 | OUT－OF－PLANE |  | Ш |  |
| （21） | WEST BASTION | SOUTH FACE | 6 | 7 | 8 | 9 | －0．03 | OUT－OF－PLANE |  | $\Sigma$ |  |
| （22） | WEST BASTION | SOUTH FACE | 6.5 | 5.5 | 6 | 9.5 | －0．05 | OUT－OF－PLANE |  | － |  |
| 23） | WEST BASTION | SOUTH FACE | 7 | 6 | 10 | 14.5 | －0．10 | OUT－OF－PLANE | BULGE | － |  |
| 24） | WEST BASTION | CORNER | 7.5 | 9 | 10 | 9.5 | －0．01 | BULGE |  | S |  |
| 25） | WEST BASTION | WEST FACE | 8.833 | 12 | 11.5 | 12 | 0.00 | IN－PLANE | 48＂FROM INTERIOR AND EXTERIOR FACE（SEPARATION BETWEEN） | 3 |  |
| （26） | WEST BASTION | WEST FACE | 9.5 | 5.5 | 6.5 | 14.5 | －0．08 | OUT－OF－PLANE |  | 3 |  |
| 27） | REDAN 1 | CORNER | 6.5 | 12.5 | 9.5 | 9.5 | 0.04 | BULGE | WALL THICKNESS：48－53＂ | － | $>$ |
| （28） | REDAN 2 | WEST FACE | 6.33 | 9 | 8 | 6.5 | 0.03 | BATEE |  | － | $\cdots$ |
| （29） | REDAN 2 | NORTH CORNER | 5.5 | 9 | 9.5 | 10 | －0．02 | OUT－OF－PLANE |  | F | 이N |
| $30)$ | REDAN 3 | WEST FACE | 8.33 | 15 | 14 | 10.5 | 0.05 | BATTER |  | 4 | ¢ |
| （31） | REDAN 3 | NORTH FACE | 8.33 | 16 | 11 | 10 | 0.06 | BATTER |  | U | ＞¢ ミ |
| （32） | REDAN 4 | WEST FACE | 5.5 | 12 | 7 | 7 | 0.08 | OUT－OF－PLANE |  | － | 山 |
| （33） | REDAN 4 | NORTH FACE | 4.75 | 7.5 | 5 | 3.5 | 0.07 | OUT－OF－PLANE |  | 三 | ○「山 |
| （34） | NORTH SCARP | WEST | 7 | 13 | 12.5 | 9.5 | 0.04 | BATTER |  | $\sim$ | $\stackrel{\text { 山 }}{\sim}$ |
| 35） | NORTH SCARP | CENTER | 6.33 | 9.5 | 9.5 | 9.5 | 0.00 | IN－PLANE |  | － | ト山ミ |
| 36） | NORTH SCARP | EAST | 5.5 | 12 | 6 | 6 | 0.09 | OUT－OF－PLANE |  | 1 | ジロ |
| 37） | GATE WALL | WEST FACE | 8.833 | 11 | 8 | 9.5 | 0.01 | BULGE | 8＇FROM NORTH CORNER；44＂THICKNESS＠TOP | － |  |
| （38） | SALLY PORT EAST | EAST FACE | 6.67 | 14 | 13.5 | 14.5 | －0．01 | IN－PLANE |  | 官 |  |
| 39） | SALLY PORT EAST | EAST FACE | 6.5 | 15.5 | 12.5 | 15 | 0.01 | BULGE |  | $\cdots$ |  |
| （40） | SALLY PORT EAST | EAST FACE | 7.5 | 12 | 11.5 | 10.5 | 0.02 | OUT－OF－PLANE |  | 능 |  |
| （41） | SALLY PORT EAST | WEST FACE | 4.167 | 7 | 7 | 7 | 0.00 | IN－PLANE |  | न |  |
| （42） | SALLY PORT EAST | WEST FACE | 6.1667 | 5 | 5.5 | 5 | 0.00 | IN－PLANE |  | $\stackrel{7}{>}$ |  |
| 43） | SALLY PORT EAST | WEST FACE | 6.1667 | 12 | 10.5 | 12.5 | －0．01 | BULGE |  |  |  |
| NOTES： |  |  |  |  |  |  |  |  |  |  |  |
| 1 | MEASUREMENTS TAKEN FROM TOE－SIDE（EXTERIOR FACE）OF FORTIFICATION WALLS IN A COUNTER－CLOCKWISE DIRECTION WITH PLUM－BOB AND MEASURING TAPE． |  |  |  |  |  |  |  |  | －2 |  |
| 2 | SEGMENT LOCATION BASED ON VIEW LOOKING INTO FORTIFICATION． |  |  |  |  |  |  |  |  |  | － |
| 3 | WALLS CONSTRUCTED OF UNREINFORCED STONE MASONRY LAID WITHOUT MORTAR OR GROUT（DRY－STACKED） |  |  |  |  |  |  |  |  |  | $\stackrel{\sim}{7}$ |
| 4 | WALLS ORIGINALLY CONSTRUCTED IN 1862 （U．S．ARMY）；LOCALLY RECONSTRUCTED IN 1935 BY WPA AND LOCALLY REPAIRED IN 1999 BY CITY OF NASHVILLE． |  |  |  |  |  |  |  |  |  | ， |
| 5 | MEASUREMENTS TAKEN ON JUNE 19， 2013 BY 1200 ARCHITECTURAL ENGINEERS，PLLC |  |  |  |  |  |  |  |  |  |  |
| 6 | SEE DETALLS FOR GRAPHIC REPRESENTATION OF WALL MEASUREMENTS，NOMENCLATURE AND BEHAVIOR |  |  |  |  |  |  |  |  | 咅 |  |






