

DRY MASONRY NOTES:

- 1. DUE TO THE HISTORIC NATURE OF THE BRIDGE AND ABUTMENTS, THE WORK FOR THIS PROJECT, AS DETAILED ON SHEET 14, REQUIRES THE EXPERTISE OF A STONE MASON WHO IS HIGHLY KNOWLEDGEABLE AND EXPERIENCED IN THE CONSTRUCTION OF DRY STONE MASONRY WALLS AND FASCIA. THE CONTRACTOR’S STONE MASON PERFORMING THE WORK MUST POSSESS AT LEAST FIVE YEARS EXPERIENCE IN THE CONSTRUCTION OF DRY STONE MASONRY WALLS. DOCUMENTATION OF EXPERIENCE, INCLUDING A LIST OF PREVIOUS PROJECTS AND REFERENCES, SHALL BE SUBMITTED TO THE ENGINEER.
- 2. THE FOUNDATION COURSE FOR NEW WALL CONSTRUCTION SHALL CONSIST OF LARGE STONES WITH FAIRLY UNIFORM PROFILE AND SUFFICIENTLY FLAT BASE TO PROVIDE AN EVEN LOAD DISTRIBUTION. THE LENGTH OF INDIVIDUAL FOUNDATION STONES (AS MEASURED PERPENDICULAR TO THE FACE OF WALL) SHALL BE AT LEAST ONE QUARTER TO NO LESS THAN ONE FIFTH OF THE HEIGHT OF THE WALL. WHERE STONES DO NOT EXTEND ACROSS THE FULL WIDTH OF THE BASE, THEY SHALL BE PARTNERED WITH SINGLE STONES TO MAKE UP THE DIFFERENCE; THESE ‘PARTNERS’ SHALL BE OF SIMILAR (BUT NOT GREATER) THICKNESS AS THE FACE STONES. UNLESS THE STONES ARE ALL (OR MUCH) THE SAME DIMENSION, SHORTER AND LONGER FOUNDATION STONES SHALL ALTERNATE ALONG THE LENGTH OF THE WALL.
- 3. TO WITHSTAND VIBRATION CAUSED BY VEHICULAR TRAFFIC, ALL NEW WALL SECTIONS SHALL BE BUILT USING LONG, HEAVY STONES OF SIMILAR SIZE THROUGHOUT, USING A GRADUAL DECREMENT IN SIZE (IN THE VERTICAL DIMENSION) FROM BOTTOM TO TOP. ALL STONES SHALL BE PLACED (LAID, SET) WITH THEIR LENGTH INTO THE WALL, i.e., THEIR LONG AXIS SHOULD BE PERPENDICULAR TO THE FACE OF THE WALL.
- 4. FOR NEW WALL CONSTRUCTION, FACE STONES SHALL BE OVERLAPPED BY ‘BACK’ STONES (THOSE LITERALLY ON THE BACK SIDE OF THE WALL) TO THE GREATEST EXTENT POSSIBLE. IN GENERAL, FACE STONES SHALL NOT BE SHORTER THAN ONE THIRD THE THICKNESS OF THE WALL. AS WITH THE FOUNDATION COURSE, BACK STONES SHALL NOT BE GREATER IN HEIGHT THAN THEIR CORRESPONDING FACE STONES.
- 5. FOR NEW WALL CONSTRUCTION, THROUGH STONES (THOSE ALL THE WAY THROUGH THE WALL) SHALL BE PLACED IN HORIZONTAL ROWS USING SPACINGS OF THREE FEET BETWEEN STONES AND TWO FEET, SIX INCHES BETWEEN ROWS (ASSUMING THAT THE STONES THEMSELVES ARE SMALLER THAN THESE DIMENSIONS). THIS IS ESPECIALLY IMPORTANT IF MORE THAN 30% OF THE FACE STONES ARE SHORTER THAN ONE HALF THE WIDTH OF THE WALL.
- 6. THE HEARTING (PACKING STONES) OF NEW WALL SECTIONS MUST BE DENSE AND SHALL CONSIST OF STONES APPROPRIATELY SIZED TO COMPLEMENT THE MAIN BUILDING STONES AND THROUGH STONES. THE PACKING STONES SHALL NOT BE TOO LARGE OR TOO SMALL. THE CHOICE AND PLACING OF PACKING STONES SHALL REQUIRE THE SAME EFFORT AS THE CHOICE AND PLACING OF FACE STONES.
- 7. NO MORTAR SHALL BE USED FOR CONSTRUCTION OF DRY MASONRY.

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