

c. WHERE THE FINAL GRADE ELEVATIONS ARE APPROXIMATELY EQUAL ON BOTH SIDES OF A WALL, BACKFILL IN LIFTS TO MAINTAIN LEVEL ELEVATIONS WITHIN 12" ON BOTH SIDES AT ANY TIME.

3. STRUCTURAL FILL:

a. REFER TO SPECIFICATIONS AND GEOTECHNICAL REPORT REQUIREMENTS FOR COMPACTED STRUCTURAL FILL. REQUIREMENTS CONTAINED IN THE GEOTECHNICAL REPORT ARE PART OF THIS WORK. INSPECTION OF THE PLACEMENT OF COMPACTED STRUCTURAL FILL SHALL BE BY AN EXPERIENCED, QUALIFIED GEOTECHNICAL ENGINEER.

- G. SPECIFIC FOUNDATION REQUIREMENTS AS CONTAINED IN
GEOTECHNICAL REPORT:

1. THE FOUNDATIONS MAY BEAR IN EITHER THE COMPACTED SUITABLE NATURAL SOILS OR COMPACTED STRUCTURAL FILL. THE BEARING LEVEL SOILS, AFTER COMPACTION, SHALL EXHIBIT DENSITIES EQUIVALENT TO 95 PERCENT OF THE MODIFIED PROCTOR MAXIMUM DRY DENSITY (ASTM D 1557), TO A DEPTH OF AT LEAST ONE FOOT BELOW THE FOUNDATION BEARING LEVELS.

2. PER THE GEOTECHNICAL REPORT, THE FOUNDATION SOILS ARE SUITABLE TO SUPPORT A WALL TO A DEPTH OF ABOUT 10 FEET. HOWEVER, THE SILTY SOILS ENCOUNTERED BEGINNING AT A DEPTH OF 4 TO 5 FEET BELOW EXISTING GRADE MAY BE DIFFICULT TO EXCAVATE AND COMPACT AT THE FOUNDATION BEARING ELEVATION. THEREFORE, ANY EXCAVATIONS EXCEEDING 4" IN DEPTH, THE SOILS BELOW SHALL BE FURTHER EXCAVATED TO A DEPTH OF 24" AND REPLACED W/ SUITABLE SAND BACKFILL.

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3. PRIOR TO CONSTRUCTION, THE LOCATION OF EXISTING UNDERGROUND UTILITY LINES WITHIN THE CONSTRUCTION AREA SHALL BE ESTABLISHED. PROVISIONS SHALL THEN BE MADE TO RELOCATE INTERFERING UTILITIES TO APPROPRIATE LOCATIONS.

4. THE "FOOTPRINT" OF THE PROPOSED BUILDING AREA, PLUS A MINIMUM ADDITIONAL MARGIN OF 5 FEET, AND OF THE HARDSCAPED AREAS (PARKING/DRIVEWAY) PLUS A MINIMUM ADDITIONAL MARGIN OF 3 FEET, SHALL BE STRIPPED OF ALL EXISTING PAVEMENT LAYERS (ASPHALT SURFACE AND LIMEROCK BASE) AS WELL AS SURFACE VEGETATION, STUMPS, DEBRIS, ORGANIC TOPSOIL, OR OTHER DELETERIOUS MATERIALS. DISCARD ALL STUMP REMAINS, ROOTS WITH A DIAMETER GREATER THAN 0.5-INCH, STUMPS, OR SMALL ROOTS IN A CONCENTRATED STATE, SHALL BE GRUBBED AND COMPLETELY REMOVED.

5. BASED ON THE RESULTS OF THIS GEOTECHNICAL EXPLORATION, IT SHOULD BE ANTICIPATED THAT 13 TO 14 INCHES OF PAVEMENT MATERIAL AND 6 INCHES OF TOPSOIL OR SOILS CONTAINING SIGNIFICANT AMOUNTS OF ORGANIC MATERIALS MAY BE ENCOUNTERED ACROSS THE SITE. THE ACTUAL DEPTHS OF UNSUITABLE SOILS AND MATERIALS SHOULD BE DETERMINED BY A DESIGNATED REPRESENTATIVE VISUAL INSPECTION OF THE EXPOSED SOILS DURING EARTHWORK OPERATIONS. ANY TOPSOILS REMOVED FROM THE BUILDING AND PARKING/DRIVE AREAS CAN BE STOCKPILED AND USED SUBSEQUENTLY IN AREAS TO BE GRASSED.

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6. AFTER COMPLETING THE CLEARING AND STRIPPING OPERATIONS, THE EXPOSED SURFACE AREA SHALL BE COMPACTED WITH A VIBRATORY DRUM ROLLER HAVING A MINIMUM STATIC, AT-DRUM WEIGHT, ON THE ORDER OF 10 TONS. TYPICALLY, THE MATERIAL SHOULD EXHIBIT MOISTURE CONTENTS WITHIN ± 2 PERCENT OF THE MODIFIED PROCTOR OPTIMUM MOISTURE CONTENT (ASTM D 1557) DURING THE COMPACTION OPERATIONS. COMPACTION SHALL CONTINUE UNTIL DENSITIES OF AT LEAST 95 PERCENT OF THE MODIFIED PROCTOR MAXIMUM DRY DENSITY (ASTM D 1557) HAVE BEEN ACHIEVED WITHIN THE UPPER 2 FEET OF THE COMPACTED NATURAL SOILS AT THE SITE.

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7. SHOULD THE BEARING LEVEL SOILS EXPERIENCE PUMPING AND SOIL STRENGTH LOSS DURING THE COMPACTION OPERATIONS, COMPACTION WORK SHALL BE IMMEDIATELY TERMINATED; THE DISTURBED SOILS SHALL BE REMOVED AND BACKFILLED WITH DRY STRUCTURAL FILL SOILS, WHICH ARE THEN COMPACTED; OR THE EXCESS MOISTURE CONTENT WITHIN THE DISTURBED SOILS SHALL BE ALLOWED TO DISSIPATE BEFORE RECOMPACTING.

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