



STRUCTURAL SOIL IS MADE UP OF THREE COMPONENTS THAT ARE MIXED IN THE FOLLOWING PROPORTIONS BY WEIGHT. CRUSHED STONE : 80%, CLAY LOAM 20%, HYDROGEL: 0.03%. TOTAL MOISTURE AT MIXING SHOULD BE 10% (AAS4 TO T-99 OPTIMUM MOISTURE). CRUSHED STONE (LIMESTONE) SHOULD BE NARROWLY GRADED FROM  $\frac{3}{4}$  TO  $1 \frac{1}{2}$ " HIGHLY ANGULAR WITH NO FINES OR AN APPROVED SCREED ROCK, THE CLAY LOAM SHOULD CONFORM TO THE USDA SOIL CLASSIFICATION SYSTEM (STONE < 5%, SAND 25%–30% SILT 20%–40%, CLAY 25%–40%) ORGANIC MATERIAL SHOULD RANGE BETWEEN 2% AND 5%. (SEE CITY WRITTEN SPECIFICATIONS).

CITY OF ALLENTOWN, PA.  
DEPT. OF PUBLIC WORKS - ENGINEERING

STRUCTURAL SOIL  
PAVEMENT PROFILE

DATE

SCALE  
NO SCALE

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ASST CITY ENGINEER: MARK GEOSITS