



QUANTUM | CONSULTING ENGINEERS

STRUCTURAL DESIGN CRITERIA

BRINDLEY RESIDENCE DETENTION VAULT
79TH AVE SE,
MERCER IS, WA, 98040.

QUANTUM JOB NUMBER: 21482.01

CODE CRITERIA:

BUILDING CODE 2018 INTERNATIONAL BUILDING CODE
BUILDING DEPARTMENT MERCER ISLAND
DRIVE WAY LIVE LOAD250 PSF
SOIL WEIGHT 150 PCF

SOILS CRITERIA:

ALLOWABLE BEARING PRESSURE 2,500 PSF
MINIMUM FOOTING WIDTH CONTINUOUS: 16" MIN., ISOLATED: 24" MIN.
FROST DEPTH 18" MIN.
PASSIVE SOIL PRESSURE 300 PCF
COEFFICIENT OF FRICTION 0.50 PCF

MATERIALS CRITERIA:

CONCRETE (28 DAY STRENGTH):

FOUNDATION/S.O.G. F'C=4,000 PSI

REINFORCING STEEL:

GRADE 60 FY=60,000 PSI