

RESIDENTIAL DETENTION CALCULATIONS

Project Number: _____

EXAMPLE:

Total lot area = 2500 sq. ft.
 Impervious cover area = 1885 sq. ft.
 Ratio of impervious cover area / total lot area =
 (1885 / 2500) x 100% = 75.4% *(If larger than 65% detention is required)*
 65% of lot area = 0.65 x 2500 = 1625 sq. ft.
 Impervious cover over 65% of lot area =
 1885 - 1625 = 260 sq. ft.

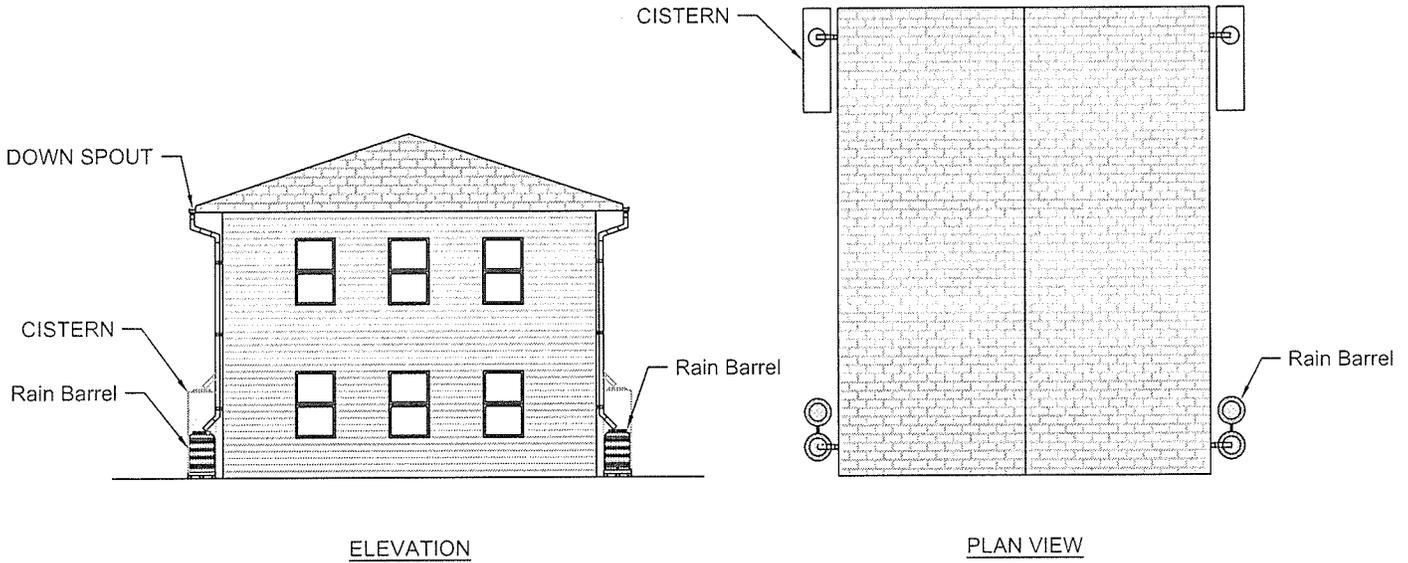
CALCULATIONS:

Total lot area = _____ sq. ft.
 Impervious cover area = _____ sq. ft.
 Ratio of impervious cover area / total lot area =
 (_____ / _____) x 100% = _____ %
 65% of lot area = 0.65 x _____ = _____ sq. ft.
 Impervious cover over 65% of lot area =
 _____ - _____ = _____ sq. ft.

Detention volume required, in gallons = 1.496 x Impervious cover over 65% of lot area

Detention volume req'd = 1.496 x 260 = 389 gallons.

Detention volume req'd = 1.496 x _____ = _____ gal.



NOTES:

1. Cisterns/Rain Barrels come in different shapes and sizes, ranging from 55 gallons to several hundred gallons in capacity. They can be placed on ground or underground.
2. Empty rain barrels after each rainfall event in order to be ready for the next storm.



STANDARD DRAWING
CITY OF HOUSTON
 DEPARTMENT OF PUBLIC
 WORKS & ENGINEERING

RESIDENTIAL DETENTION
 CALCULATIONS
 1002 WASHINGTON AVE., HOUSTON, TEXAS 77002

APPROVED BY

 BUILDING OFFICIAL
 DATE: 7 / 1 / 2015 DWG No: 15-04-R 1 of 1