

SECTION V

SELECTING A TYPICAL RSF CONFIGURATION:

Area Required:

GPD / Recirculation Rate (3.0-5.0 gpd/sq.ft.) = SF Area Required (sq. ft.)

Sand Filter Length:

Typical Sand Filter Length = 50'

Sand Filter Width:

Area Required (sq.ft.) / 50' length

Determine Number of Laterals Required:

Typical lateral spacing: 2.0'

Note: Sand filter length is 50' but laterals have 1 ft separation from both ends creating an effective lateral length of 48'.

Width (ft.) / Lateral Spacing (typ. 2') = Number of 48' laterals required

Determine which standard configuration to use:

Refer to selection chart in Table 1

EXAMPLE:

20,000 gpd w/ a 5.0 gpd/sq.ft. loading rate

Area Required:

20,000 GPD / 5.0 gpd/sq.ft. = 4000 sq. ft. required

Sand Filter Length:

Typical Sand Filter Length = 50'

Sand Filter Width:

Area Required (sq.ft.) / 50' length

4000 sq.ft. / 50' = 80' width

Determine Number of Laterals Required:

Typical lateral spacing: 2.0'

Width (ft.) / Lateral Spacing (typ. 2') = Number of 48' laterals required

80 ft / 2.0 ft. = 40 laterals of 48' length required.

Determine which standard configuration to use:

Refer to selection chart in *Table #1*

Options for 40 laterals from *Table #1* are **SF 245** or **SF 254**