

TABLE 5

NORTH VINEYARD STATION SPECIFIC PLAN

DRAINAGE MASTER PLAN  
UPDATE AND PHASING

DETENTION BASIN PARAMETERS  
PHASE D CONDITIONS

| Basin Parameters                    | Basin Name                    |                               |                  |                               |                               |
|-------------------------------------|-------------------------------|-------------------------------|------------------|-------------------------------|-------------------------------|
|                                     | E24A                          | E24B                          | E26              | G41                           | G46                           |
| Basin Site (ac)                     | 14                            | 7.1                           | 22               | 11                            | 17                            |
| Basin Description                   | Online W.Q./<br>Combined F.C. | Online W.Q./<br>Combined F.C. | Online W.Q./F.C. | Online W.Q./<br>Combined F.C. | Online W.Q./<br>Combined F.C. |
| UNET Storage Area Number            | 11                            | 6                             | 5                | 10                            | 8                             |
| Bottom Elevation                    | 33.5                          | 36                            | 39.5             | 38.5                          | 47.5                          |
| Maximum Side Slopes                 | 4:1                           | 4:1                           | 4:1 and 3:1      | 4:1                           | 4:1                           |
| Basin Equation                      | $4.84y + 0.487y^3$            | $4.74y + 0.0925y^3$           | $9.6y + 0.16y^3$ | $5.46y + 0.0389y^3$           | $11.48y + 0.0028y^3$          |
| Water Quality Volume (ac-ft)        | 7.2                           | 2.3                           | 17               | 8.7                           | 17.1                          |
| Water Quality Pool Elevation        | 36.5                          | 39                            | 42.5             | 41.5                          | 50.5                          |
| 10-year Flood Control Volume        | 14.85                         | 13.58                         | 40.63            | 24.49                         | 53.44                         |
| 10-year Pool Elevation              | 38.96                         | 41.72                         | 46.47            | 45.85                         | 55.15                         |
| 100-year Flood Control Volume       | 61.52                         | 33.95                         | 65.09            | 53.77                         | 93.52                         |
| 100-year Pool Elevation             | 43.82                         | 45.37                         | 48.65            | 50.74                         | 58.63                         |
| Total Weir Length (ft)              | 200                           | 100                           | n/a              | 150                           | 100                           |
| Segment 1 Weir Length and Elevation | 100' @ 43.3'                  | 100' @ 47.3'                  |                  | 150' @ 50.0'                  | N/A                           |
| Segment 2 Weir Length and Elevation | 100' @ 43.5'                  |                               |                  |                               |                               |
| Segment 3 Weir Length and Elevation |                               |                               |                  |                               |                               |
| Diameter of Outfall Pipe (in)       | 24                            | 24                            | 60               | 24                            | 24                            |