

TABLES

TABLE 1
NORTH VINEYARD STATION SPECIFIC PLAN

DRAINAGE MASTER PLAN
UPDATE AND PHASING

DETENTION BASIN PARAMETERS
PHASE A1 CONDITIONS

Basin Parameters	Basin Name				
	E24A	E24B	E26	G41	G46
Basin Site (ac)	N/A	N/A	N/A	11	N/A
Basin Description	N/A	N/A	N/A	Online W.Q./ Combined F.C.	N/A
UNET Storage Area Number	N/A	N/A	N/A	1	N/A
Bottom Elevation	N/A	N/A	N/A	38.5	N/A
Maximum Side Slopes	N/A	N/A	N/A	4:1	N/A
Basin Equation	N/A	N/A	N/A	$5.46y + 0.0389y^2$	N/A
Water Quality Volume (ac-ft)	N/A	N/A	N/A	8.7	N/A
Water Quality Pool Elevation	N/A	N/A	N/A	41.5	N/A
10-year Flood Control Volume	N/A	N/A	N/A	23.79	N/A
10-year Pool Elevation	N/A	N/A	N/A	45.73	N/A
100-year Flood Control Volume	N/A	N/A	N/A	63.57	N/A
100-year Pool Elevation	N/A	N/A	N/A	52.31	N/A
Total Weir Length (ft)	N/A	N/A	N/A	150	N/A
Segment 1 Weir Length and Elevation	N/A	N/A	N/A	150' @ 51.9'	N/A
Segment 2 Weir Length and Elevation	N/A	N/A	N/A		N/A
Segment 3 Weir Length and Elevation	N/A	N/A	N/A		N/A
Diameter of Outfall Pipe (in)	N/A	N/A	N/A	24	N/A

TABLE 2

NORTH VINEYARD STATION SPECIFIC PLAN

DRAINAGE MASTER PLAN
UPDATE AND PHASING

DETENTION BASIN PARAMETERS
PHASE A2 CONDITIONS

Basin Parameters	Basin Name				
	E24A	E24B	E26	G41	G46
Basin Site (ac)	N/A	7.1	22	11	N/A
Basin Description	N/A	Online W.Q./ Combined F.C.	Online W.Q./F.C.	Online W.Q./ Combined F.C.	N/A
UNET Storage Area Number	N/A	2	1	3	N/A
Bottom Elevation	N/A	36	39.5	38.5	N/A
Maximum Side Slopes	N/A	4:1	4:1 and 3:1	4:1	N/A
Basin Equation	N/A	$4.74y + 0.0925y^2$	$9.6y + 0.16y^2$	$5.46y + 0.0389y^2$	N/A
Water Quality Volume (ac-ft)	N/A	2.3	17	8.7	N/A
Water Quality Pool Elevation	N/A	39	42.5	41.5	N/A
10-year Flood Control Volume	N/A	15.26	41.18	18.61	N/A
10-year Pool Elevation	N/A	42.04	46.52	44.83	N/A
100-year Flood Control Volume	N/A	48.88	72.33	63.38	N/A
100-year Pool Elevation	N/A	47.8	49.27	52.28	N/A
Total Weir Length (ft)	N/A	100	N/A	150	N/A
Segment 1 Weir Length and Elevation	N/A	100' @ 47.3'		150' @ 51.9'	N/A
Segment 2 Weir Length and Elevation	N/A				N/A
Segment 3 Weir Length and Elevation	N/A				N/A
Diameter of Outfall Pipe (in)	N/A	24	60	24	N/A

TABLE 3

NORTH VINEYARD STATION SPECIFIC PLAN

DRAINAGE MASTER PLAN
UPDATE AND PHASING

DETENTION BASIN PARAMETERS
PHASE B CONDITIONS

Basin Parameters	Basin Name				
	E24A	E24B	E26	G41	G46
Basin Site (ac)	N/A	7.1	22	11	N/A
Basin Description	N/A	Online W.Q./ Combined F.C.	Online W.Q./F.C.	Online W.Q./ Combined F.C.	N/A
UNET Storage Area Number	N/A	6	5	10	N/A
Bottom Elevation	N/A	36	39.5	38.5	N/A
Maximum Side Slopes	N/A	4:1	4:1 and 3:1	4:1	N/A
Basin Equation	N/A	$4.74y + 0.0925y^2$	$9.6y + 0.16y^2$	$5.46y + 0.0389y^2$	N/A
Water Quality Volume (ac-ft)	N/A	2.3	17	8.7	N/A
Water Quality Pool Elevation	N/A	39	42.5	41.5	N/A
10-year Flood Control Volume	N/A	15.32	47.55	18.61	N/A
10-year Pool Elevation	N/A	42.05	47.1	44.83	N/A
100-year Flood Control Volume	N/A	48.94	71.62	63.57	N/A
100-year Pool Elevation	N/A	47.81	49.21	52.31	N/A
Total Weir Length (ft)	N/A	100	n/a	150	N/A
Segment 1 Weir Length and Elevation	N/A	100' @ 47.3'		150' @ 51.9'	N/A
Segment 2 Weir Length and Elevation	N/A				N/A
Segment 3 Weir Length and Elevation	N/A				N/A
Diameter of Outfall Pipe (in)	N/A	24	60	24	N/A

TABLE 4

NORTH VINEYARD STATION SPECIFIC PLAN

DRAINAGE MASTER PLAN
UPDATE AND PHASING

DETENTION BASIN PARAMETERS
PHASE C CONDITIONS

Basin Parameters	Basin Name				
	E24A	E24B	E26	G41	G46
Basin Site (ac)	N/A	7.1	22	11	17
Basin Description	N/A	Online W.Q./ Combined F.C.	Online W.Q./F.C.	Online W.Q./ Combined F.C.	Online W.Q./ Combined F.C.
UNET Storage Area Number	N/A	6	5	10	8
Bottom Elevation	N/A	36	39.5	38.5	47.5
Maximum Side Slopes	N/A	4:1	4:1 and 3:1	4:1	4:1
Basin Equation	N/A	$4.74y + 0.0925y^2$	$9.6y + 0.16y^2$	$5.46y + 0.0389y^2$	$11.48y + 0.0028y^2$
Water Quality Volume (ac-ft)	N/A	2.3	17	8.7	17.1
Water Quality Pool Elevation	N/A	39	42.5	41.5	50.5
10-year Flood Control Volume	N/A	15.32	47.55	23.79	59.77
10-year Pool Elevation	N/A	42.05	47.1	45.73	55.7
100-year Flood Control Volume	N/A	48.94	72.09	62.88	80.5
100-year Pool Elevation	N/A	47.81	49.25	52.2	57.5
Total Weir Length (ft)	N/A	100	N/A	150	N/A
Segment 1 Weir Length and Elevation	N/A	100' @ 47.3'		150' @ 51.9'	
Segment 2 Weir Length and Elevation	N/A				
Segment 3 Weir Length and Elevation	N/A				
Diameter of Outfall Pipe (in)	N/A	24	60	24	24

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./ Combined F.C.	Online W.Q./ Combined F.C.	Online W.Q./F.C.	Online W.Q./ Combined F.C.	Online W.Q./ 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

TABLE 6

NORTH VINEYARD STATION SPECIFIC PLAN

DRAINAGE MASTER PLAN
UPDATE AND PHASINGDETENTION BASIN PARAMETERS
PHASE E (STAND-ALONE) CONDITIONS

Basin Parameters	Basin Name				
	E24A	E24B	E26	G41	G46
Basin Site (ac)	14	7.1	22	11	17
Basin Description	Online W.Q./ Combined F.C.	Online W.Q./ Combined F.C.	Online W.Q./F.C.	Online W.Q./ Combined F.C.	Online W.Q./ 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	$4.84y + 0.487y^2$	$4.74y + 0.0925y^2$	$9.6y + 0.16y^2$	$5.46y + 0.0389y^2$	$11.48y + 0.0028y^2$
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	20.87	11.7	34.92	23.62	68.98
10-year Pool Elevation	39.75	41.36	45.94	45.7	56.5
100-year Flood Control Volume	62.12	33.71	53.68	54.95	89.83
100-year Pool Elevation	43.87	45.33	47.65	50.93	58.31
Total Weir Length (ft)	100	100	N/A	150	100
Segment 1 Weir Length and Elevation	100' @ 43.3'	100' @ 45.0'		150' @ 50.0'	100' @ 56.2'
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

TABLE 7

NORTH VINEYARD STATION SPECIFIC PLAN

DRAINAGE MASTER PLAN
UPDATE AND PHASING

DETENTION BASIN PARAMETERS
ULTIMATE CONDITIONS

Basin Parameters	Basin Name				
	E24A	E24B	E26	G41	G46
Basin Site (ac)	14	7.1	22	11	17
Basin Description	Online W.Q./ Combined F.C.	Online W.Q./ Combined F.C.	Online W.Q./F.C.	Online W.Q./ Combined F.C.	Online W.Q./ 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	$4.84y + 0.487y^2$	$4.74y + 0.0925y^2$	$9.6y + 0.16y^2$	$5.46y + 0.0389y^2$	$11.48y + 0.0028y^2$
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	30	25	34.6	33.57	104.93
10-year Pool Elevation	40.82	43.82	45.91	47.4	59.62
100-year Flood Control Volume	43.2	30.37	48.32	34.87	105.39
100-year Pool Elevation	42.18	44.76	47.17	47.62	59.66
Total Weir Length (ft)	50	100	N/A	150	100
Segment 1 Weir Length and Elevation	50' @ 41.0'	100' @ 43.5'		150' @ 48.0'	100' @ 56.2'
Segment 2 Weir Length and Elevation					
Segment 3 Weir Length and Elevation					
Diameter of Outfall Pipe (in)	24	24	60	24	24

TABLE 8
NORTH VINEYARD STATION SPECIFIC PLAN
DRAINAGE MASTER PLAN
UPDATE AND PHASING
SUMMARY OF PROBABLE COSTS

Name	Incremental Cost, \$	Cumulative Cost, \$
Phase A1	1,061,750	1,061,750
Phase A2	3,006,750	4,068,500
Phase B	0	4,068,500
Phase C	1,714,000	5,782,500
Phase D	3,237,500	9,020,000
Phase E	1,378,000	10,398,000