

Table 2.4-1. Maximum Water Surface Elevations (ft) from the Applicant’s Model Setup and Sensitivity Analyses

Model Reach	Applicant’s Model	Manning’s Roughness of Overbanks and Channels			Contraction/Expansion Coefficient of Culvert Cross Sections	Inline Weir Coefficient of Blocked Culverts
		0.025	0.030	0.050		
Feeder Ditch 1	219.45 219.47 ^r	219.47 ^a 219.49 ^b 220.11 ^c	219.49 ^a 219.52 ^b	219.57 ^a 219.62 ^b	219.46	219.45
Feeder Ditch 2	219.40 219.42 ^r	219.40 ^a 219.41 ^b 220.09 ^c	219.40 ^a 219.42 ^b	219.40 ^a 219.45 ^b	219.40	219.40
Feeder Ditch 3	219.42 219.43 ^r	219.45 ^a 219.45 ^b 220.10 ^c	219.49 ^a 219.48 ^b	219.65 ^a 219.64 ^b	219.42	219.42
Main Stem + M1 through M4	219.37 219.39 ^r	219.37 ^a 219.39 ^b 220.07 ^c	219.37 ^a 219.40 ^b	219.37 ^a 219.43 ^b	219.37	219.37

a—minimum value in overbank areas of feeder ditches and reach 1 of the main ditch only

b—minimum value in overbank areas of all ditches

c—applied to all overbank areas and channel cross sections

r—results from applicant’s model revision 1

Table 2.4-2. Summary of Contributing Sub-basins the Feeder and Main Stem Ditches
 (based on HEC-HMS Hydrologic Model Configuration shown in Figure 2.4.2.4-103. For each ditch the sub-basin and upstream ditch are provided so that the number of contributing sub-basins increases at downstream ditches)

Ditch	Contributing Sub-basins
Feeder Ditch (FD) 1	FD1W, UN12-N,
Feeder Ditch (FD) 2	FD2W, FD2E
Feeder Ditch (FD) 3	FD3E, FD3W, OF1, OF2
Main Stem (M) 1	FD1, UN12S, M1W, M1S
Main Stem (M) 2	M1, FD2, M2E, M2W, M2S
Main Stem (M) 3	M2, FD3, M3W, M3E, M3S, LD2
Main Stem (M) 4	M3, M4W
Main Stem (M) 5	M4, M5W, LD3
Main Stem (M) 6	M5, M6W, LD4, FD5aN
Main Stem (M) 7	M6, M7W, M7E, LD5, FD6bE, FD6aE
Main Stem (M) 8	M7, M8W, M8Cat

Table 2.5-1 Backfill ITAAC

Design Requirement	Inspections, Tests, Analyses	Acceptance Criteria
Backfill material under Seismic Category 1 structures is installed to meet a minimum of 95 percent modified Proctor compaction.	Required testing will be performed during placement of the backfill materials.	A report exists that documents that the backfill material under Seismic Category 1 structures meets the minimum 95 percent modified Proctor compaction
Backfill shear wave velocity is greater than or equal to 1,000 fps at the depth of the NI foundation and below.	Field shear wave velocity measurements will be performed when backfill placement is at the elevation of the bottom of the Nuclear Island foundation and at finish grade.	A report exists and documents that the asbuilt backfill shear wave velocity at the NI foundation depth and below is greater than or equal to 1,000 fps.