

Appendix 3.E, Pile Driving Assumptions for the Proposed Action

3.E Pile Driving Assumptions for the Proposed Action

Feature	On-land or In-water	Pile Type/ Sizes	Total Piles/ Site	Number of Concurrent Pile Drivers at Site	Piles/ Day	Strikes/ Pile	Strikes/ Day
Intake Cofferdam	In-water	Sheet pile	2,500	4	60	700	42,000
Intake Structure Foundation—Intake 2	In-water	42-inch-diameter steel	1,120	4	60	1,500	90,000
Intake Structure Foundation—Intake 3	In-water	42-inch-diameter steel	850	4	60	1,500	90,000
Intake Structure Foundation—Intake 5	In-water	42-inch-diameter steel	1,120	4	60	1,500	90,000
Barge Unloading Facility	In-water	18-inch-diameter steel	800	4	60	1,050	63,000
Inlet Structure at Intermediate Forebay	On-land	14-inch concrete or steel pipe	1,700	1	15	750	11,250
Outlet Structure at Intermediate Forebay	On-land	14-inch concrete or steel pipe	1,700	1	15	750	11,250
SR12 Improvement	On-land	14-inch steel pipe	40	1	6	1,500	9,000
Cofferdam for Modified Clifton Court Forebay Embankments	In-water	Sheet piles (AZ-28-700)	22,000	4	60	700	42,000
Divider Wall for Modified Clifton Court Forebay	In-water	Sheet piles (AZ-28-700)	5,000	4	60	700	42,000
Siphon at North Clifton Court Forebay Outlet	In-water	14-inch concrete or steel pipe	2,160	2	30	1,050	31,500
Siphon under Byron Highway	On-land	14-inch concrete or steel pipe	1,600	2	30	1,050	31,500
Cofferdam for Head of Old River Gate	In-water	Sheet piles (AZ-28-700)	550	1	15	700	10,500
Foundation for Head of Old River Gate	In-water	14-inch steel pipe or H-piles	100	1	15	1,050	15,750

Notes: All assumptions will be refined as part of next engineering phase when site-specific geotechnical data are collected. Assumptions for the inlet and outlet structures at the intermediate forebay represent the worst-case scenario. These structures could be supported on shallow foundations with ground improvement (i.e., no pile driving would be needed).