

Project Profile

Charles Sturt Industrial Estate Demolition Works



Client	Moto Projects
Location	Adelaide, SA
Duration	January 2018 to October 2018
Contract	Lump Sum Design and Construct
Cost	\$6.1 million

Project Overview

Charles Sturt Industrial Estate is a new industrial and bulky goods estate developed by ISPT on the site of the original General Motors Holden assembly plant in the northern Adelaide suburb of Woodville. The assembly plant had closed in October 2017.

Through a competitive tendering process McMahon Services was awarded the project for the demolition of the former General Motors Holden main assembly plant, Charles Sturt Industrial Estate Building and the surrounding pavements and hardstand located in the north-western area of the site.

Scope of Work

Works included the decommissioning, demolition and environmental remediation of the former General Motors Holden Main Assembly Plant within the Charles Sturt Industrial Estate.

Initial works were the identification and safe decommissioning of electrical, stormwater, water main, sewers, telecommunication and gas services and then relocating and connecting these services to the new Nerve Centre building located adjacent to the demolition site.

Asbestos remediation works included the safe removal and disposal of 100,000m² of asbestos deep 6 sheet roofing from the saw tooth roof configuration prevalent across the plant. Third party air monitoring was applied during asbestos clearance activities. All asbestos containing materials were packaged in double layer 200µm plastic wrap and disposed of at an approved EPA licenced waste facility receiving station. Hazardous waste removed from site included 100,000L of transformer and subterranean tunnel oil.

Mechanical demolition works was undertaken with three demolition excavators fitted with hydraulic shear attachments working to a height of 16m. Other works included site clearances, demolition of approximately 26,000m² of concrete footing and crushing of concrete, excavating and remediating contaminated areas to a depth of 3m, and backfilling pits, sumps, tunnels and excavations. 25,000t of concrete and masonry were demolished and recycled. 2,000t was recovered from structural steel supports and salvaged heavy equipment on site. 29 large presses ranging from 40t to 65t were also removed from site.

Additional works included the replacement of a SA Power Networks 33kVA transformer used by the adjacent Bunnings Waterhouse facility.

Plant and equipment used on site includes one small forklift, two large forklifts, five elevated work platforms, trucks, 13t, 30t and 45t excavators with hydraulic shears and 100t and 250t cranes.

