Project Case Study

ALLTYPE ENGINEERING

Smart Freeway – Supply and Fabricate Gantries

End User	Main Roads WA
Client	SmartWays Alliance (SWA)
Location	Perth, WA
Market Sector	Government/ Infrastrcuture

Scope of Work:

Alltype Engineering was appointed by SmartWays Alliance (SWA) to supply and fabricate 14 gantries, as part of the Main Roads Western Australia (MRWA) Kwinana Northbound Project.

Designs for the Cantilever Gantry's required large bore CHS Pipe to EN10219 for the main gantry posts and arms. With the widening of the Kwinana Northbound roadworks, the gantry arms required extension were up to 26m long making them the largest seen in this state.

10 off the Gantries also accommodate VMS screens, whereas LUS screens inbuilt into the Balustrade Frames positioned over freeway lanes provide lane by lane electronic signage.

Manufactured to AS5131 CC3 the gantry fabrication process governed full traceability for materials and welding, increased levels for welding qualification, surface preparation along with application of MRWA's specifications for materials certification and additional testing has resulted in providing the highest quality applicable for these type of structures.

Alltype Engineering's processing capability was key to achieving accurate dimensional outcome. With equipment capable of cutting and bevelling shaped VMS arm penetrations through to processed and pre-drilled structural and plates, which provided us a well-produced finish product within dimensional tolerance.

Applaudable efforts must be acknowledged to all facets from our workshop's performance to surface treatment subcontractors efforts in delivering these gantries in a production line manner to a tight timeline to meet critical and rigid freeway shutdown dates for erection. The project was completed in Q1, 2020.

AS/NZS ISO 9001
AS/NZS 4801
BUREAU VERITAS
Certification