



CASE STUDIES

APB BUILDING – QINETIQ LIMITED

Contract Start:	April 2020
Contract Finish	February 2021
Duration:	46 weeks
Contractor Status:	Principal Contractor
Contract:	NEC3
MAL Tender Price:	£7,300,000
MAL Final Price:	£8,439,000

Prepared by: MacAulay Askernish Ltd
HILLSIDE OFFICE, LOCHBOISDALE, ISLE OF SOUTH UIST, HS8 5TH

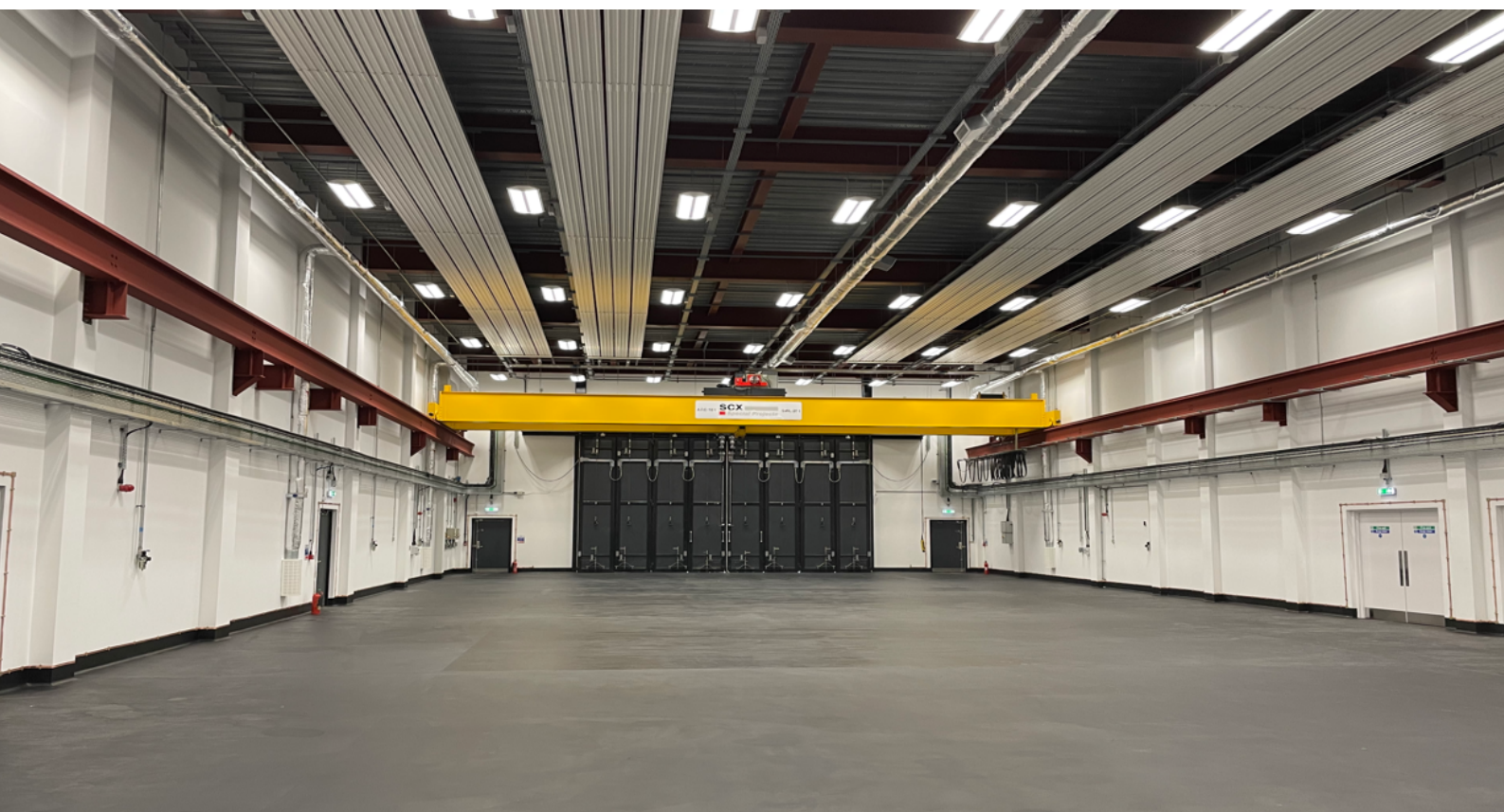


QinetiQ Limited

APB Building

MacAulay Askernish Ltd (MAL) successfully completed the £8.5m Construction of the Ammo Processing Building on behalf of QinetiQ Hebrides, Rangehead, South Uist.

Works Commenced April 2020, with completion on 27th February 2021, this represents an incredible achievement by all at MAL during the 11 month construction period.



QinetiQ Limited APB Building

The works consisted of the construction of an Ammo Processing Building, located off the northwest coast of Scotland on the QinetiQ MoD site, Rangehead in the Outer Hebrides. This involved the installation of a 20t Gantry Crane, Blast Doors and a Substantial amount of Mechanical & Electrical equipment.

MAL sub-contracted several different companies covering a wide range of specialties.

Early engagement with sub-contractors was a critical element of the project, and more so was the frequent communication with all sub-contractors, ensuring lead times and start on site dates where met.

Management of our Sub-contractors and communication was another key aspect in the timely and safe completion of the project.

The works were contracted under NEC3 terms and conditions, MAL carried out the works in the spirit of NEC, ensuring an open & transparent relationship.

Coupler Proposal

Site ref : APB Blast Wall
 Job no : FS21

Bar schedule ref : 3503 01
 Date prepared : 07-Jul-20
 Prepared by : NM Checked by :

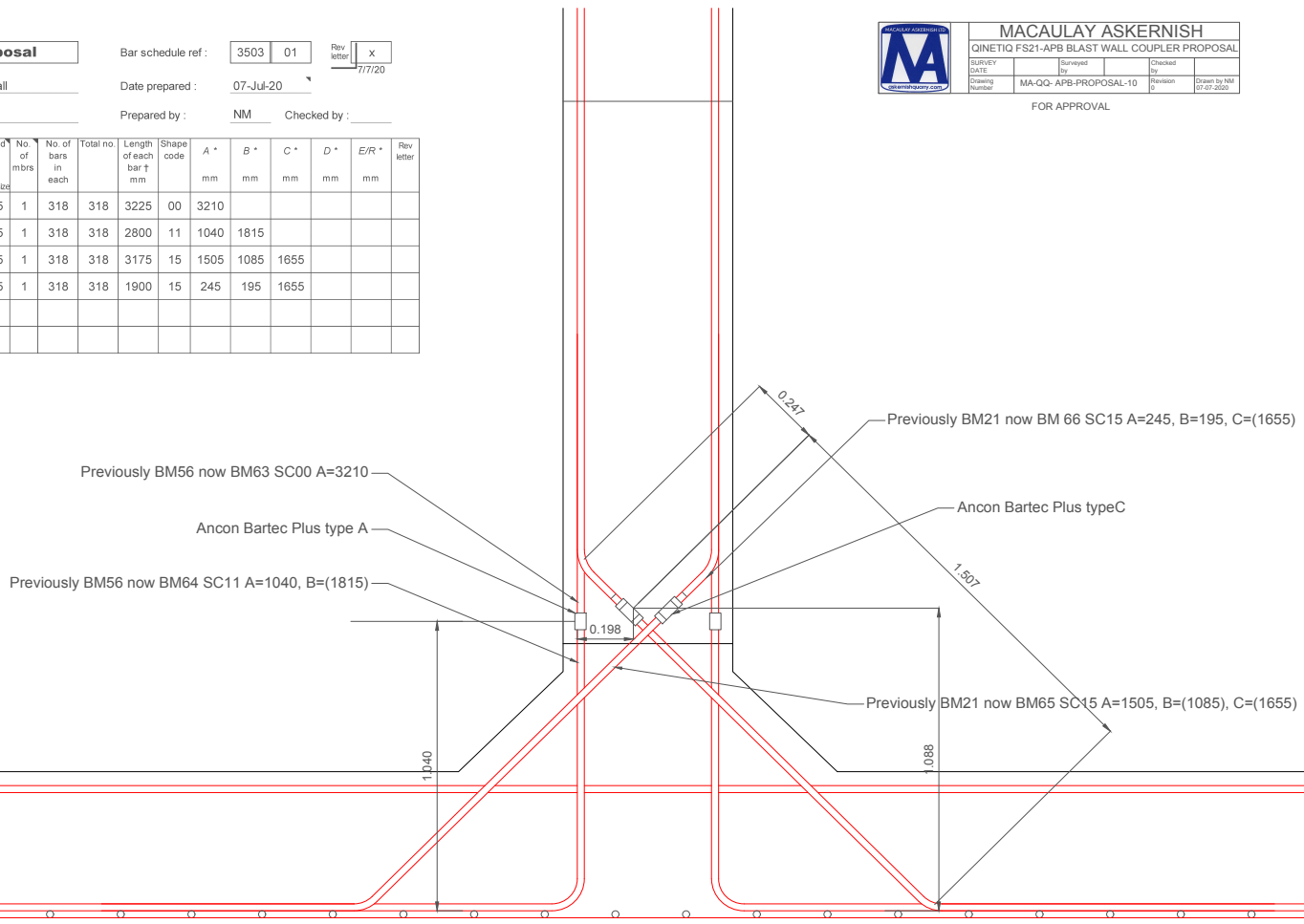
Rev letter: X
 7/7/20



MACAULAY ASKERNISH			
QINETIQ FS21-APB BLAST WALL COUPLER PROPOSAL			
SURVEY DATE	Surveyed by	Checked by	
Drawing Number	MA-QQ-APB-PROPOSAL-10	Revision 0	Drawn by NM 07-07-2020

FOR APPROVAL

Member	Bar mark	Type and size	No of mbrs	No of bars in each	Total no.	Length of each bar ft	Shape code	A *	B *	C *	D *	E/R *	Rev letter
		type size				mm		mm	mm	mm	mm	mm	
Foundation	63	H 25	1	318	318	3225	00	3210					
	64	H 25	1	318	318	2800	11	1040	1815				
	65	H 25	1	318	318	3175	15	1505	1085	1655			
	66	H 25	1	318	318	1900	15	245	195	1655			



QinetiQ Limited

APB Building

Due to time constraints, MAL proposed a design change in relation to the Blast Wall Reinforcement. Due to the wall and its foundations being in close proximity to the main building structure, if the wall foundation excavations were left until the main building foundations were complete, it could potentially undermine the structure. MAL proposal to introduce couplers allowed the wall foundations to be cast several months prior to the planned task, without starter bars projecting above the ground. The position and height of the starter bars in the original design would have also impacted on the frame and cladding trades.



QinetiQ Limited APB Building

MacAulay Askernish Ltd (MAL) provided in-house resources to carry out all Civil works, utilising local labour and material. MAL carried out the on-site wet concrete batching of 4000m³ used in the construction of hardstanding's, Blast Wall, Concrete Roof and Floor Slab. Also supplied was over 15,000 tonnes of infill material for the project. All raw materials with the exception of the cement were sourced on Island.

QinetiQ Limited
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