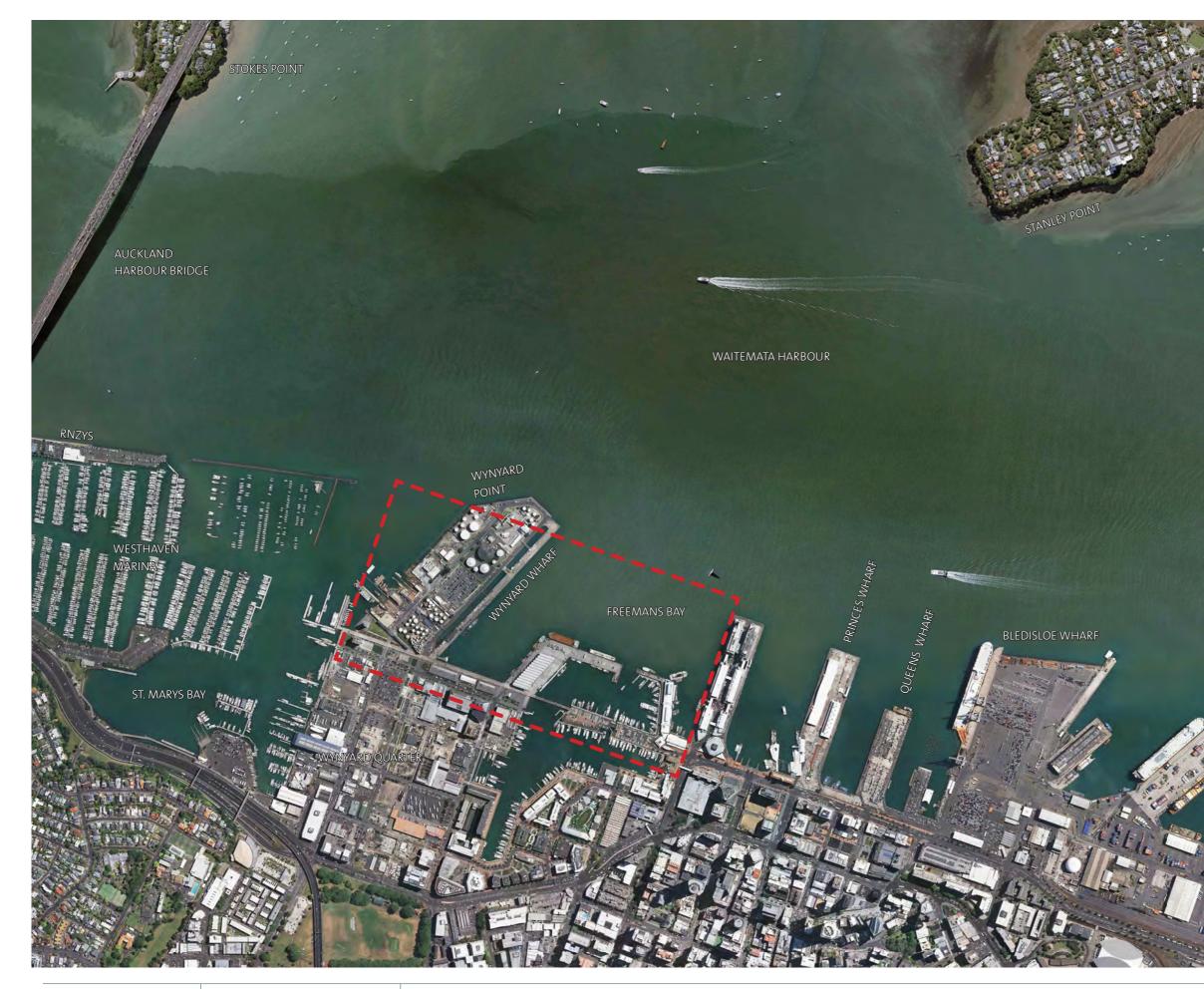
AMERICA'S CUP 36 Wynyard Hobson Proposal

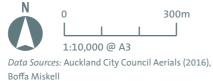
URBAN DESIGN, LANDSCAPE AND PLANNING FIGURES

PART 2 -

LANDSCAPE AND VISUAL ASSESSMENT PLANS AND VISUAL SIMULATIONS







Projection: NZGD 2000 New Zealand Transverse Mercator

AMERICA'S CUP 36 - WYNYARD HOBSON PROPOSAL - URBAN DESIGN, LANDSCAPE AND PLANNING FIGURES - PART 2

Location and Harbour Context | Date: 10 April 2018 | Revision: 0 | Prepared for Panuku Development Auckland by Boffa Miskell Limited

Project Manager: john.goodwin@boffamiskell.co.nz | Drawn: JMy | Checked: JGo

6 94 6

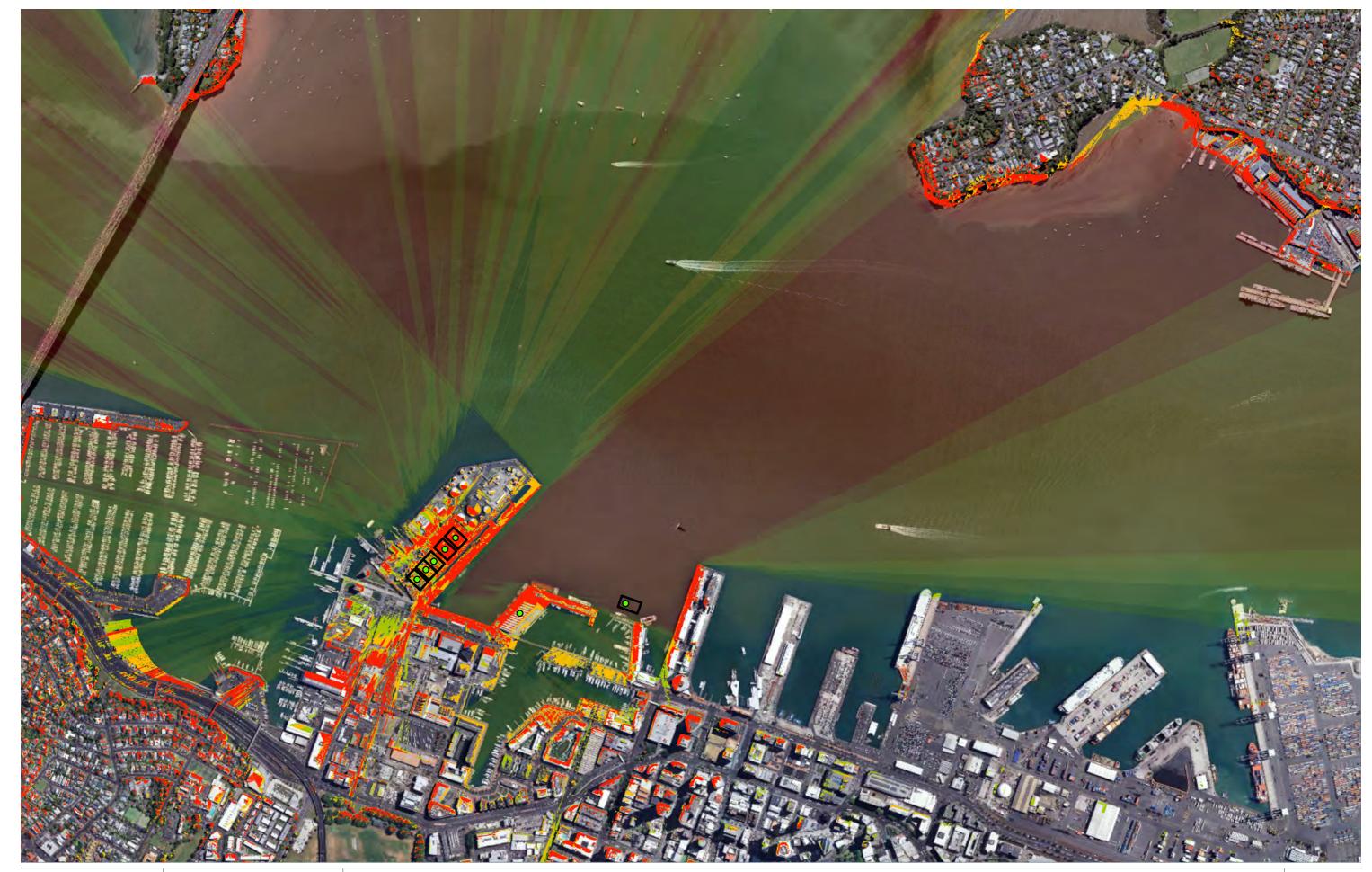




1:5,000 @ A3 Data Sources: Auckland City Council Aerials (2016), Boffa Miskell Projection: NZGD 2000 New Zealand Transverse Mercator AMERICA'S CUP 36 - WYNYARD HOBSON PROPOSAL - URBAN DESIGN, LANDSCAPE AND PLANNING FIGURES - PART 2

Prepared for Panuku Development Auckland by Boffa Miskell Limited Project Manager: john.goodwin@boffamiskell.co.nz | Drawn: JMy | Checked: JGo

DSCAPE AND PLANNING FIGURES - PART 2 Western Waterfront Context | Date: 10 April 2018 | Revision: 0 |







Data Sources: Auckland Council (Aerials 2016, LiDAR 2013), Boffa Miskell Projection: NZGD 2000 New Zealand Transverse Mercator



AMERICA'S CUP 36 - WYNYARD HOBSON PROPOSAL - URBAN DESIGN, LANDSCAPE AND PLANNING FIGURES - PART 2 Building Locations Visibility Analysis - Harbour Context | Date: 13 April 2018 | Revision: A | Prepared for Panuku Development Auckland by Boffa Miskell Limited

Project Manager: john.goodwin@boffamiskell.co.nz | Drawn: JWa | Checked: JGo





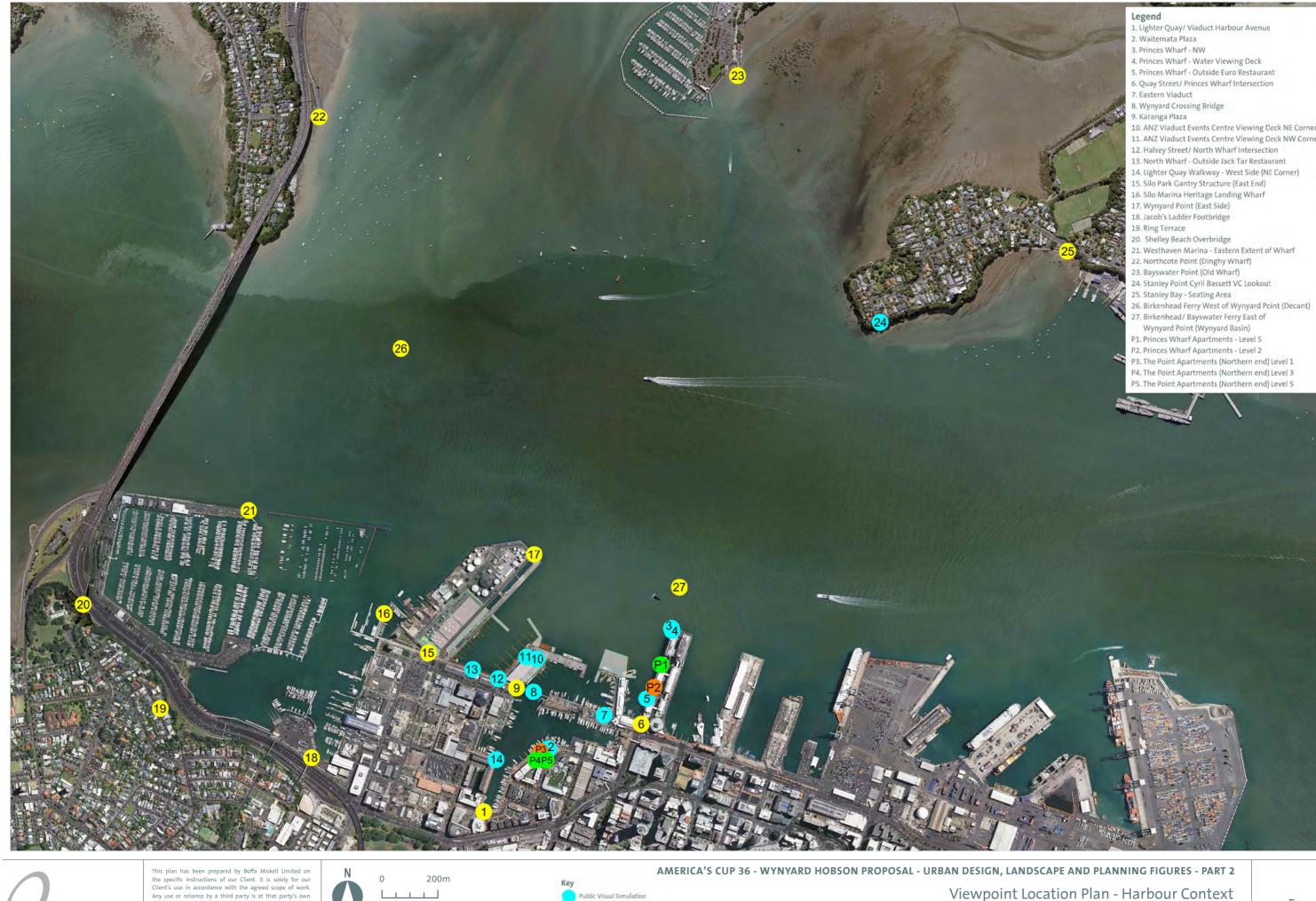
Ν 1:5,000 @ A3

Data Sources: Auckland Council (Aerials 2016, LiDAR 2013), Boffa Miskell Projection: NZGD 2000 New Zealand Transverse Mercator

150m

Building Footprints Visibility

AMERICA'S CUP 36 - WYNYARD HOBSON PROPOSAL - URBAN DESIGN, LANDSCAPE AND PLANNING FIGURES - PART 2 Building Locations Visibility Analysis - Western Waterfront Context | Date: 13 April 2018 | Revision: A | Prepared for Panuku Development Auckland by Boffa Miskell Limited Project Manager: john.goodwin@boffamiskell.co.nz | Drawn: JWa | Checked: JGo



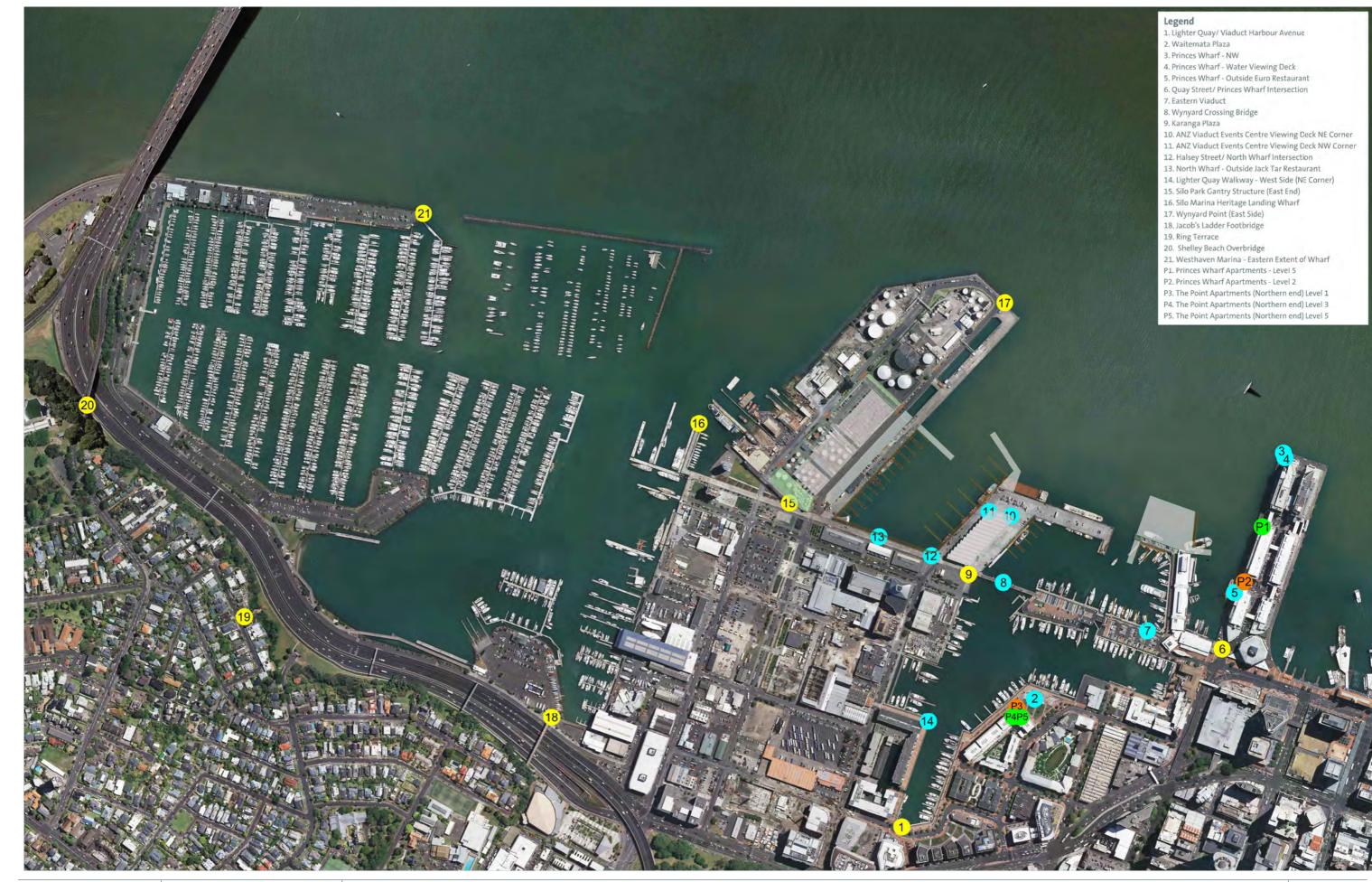




Public Reference Photo Private Reference Private Visual Simulation (P1/ P4/ P5)

- 10. ANZ Viaduct Events Centre Viewing Deck NE Corner
- 11. ANZ Viaduct Events Centre Viewing Deck NW Corner

| Date: 11 April 2018 | Revision: 0 | Prepared for Panuku Development Auckland by Boffa Miskell Limited Project Manager: john.goodwin@boffamiskell.co.nz | Drawn: JMy | Checked: JGo



Boffa Miskell

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Key Public Visual Simulation Public Reference Photo Private Reference Photo Private Visual Simulation (P1/ P4/ P5)

AMERICA'S CUP 36 - WYNYARD HOBSON PROPOSAL - URBAN DESIGN, LANDSCAPE AND PLANNING FIGURES - PART 2 Viewpoint Location Plan - Western Waterfront Context | Date: 11 April 2018 | Revision: 0 | Prepared for Panuku Development Auckland by Boffa Miskell Limited

Project Manager: john.goodwin@boffamiskell.co.nz | Drawn: JMy | Checked: JGo



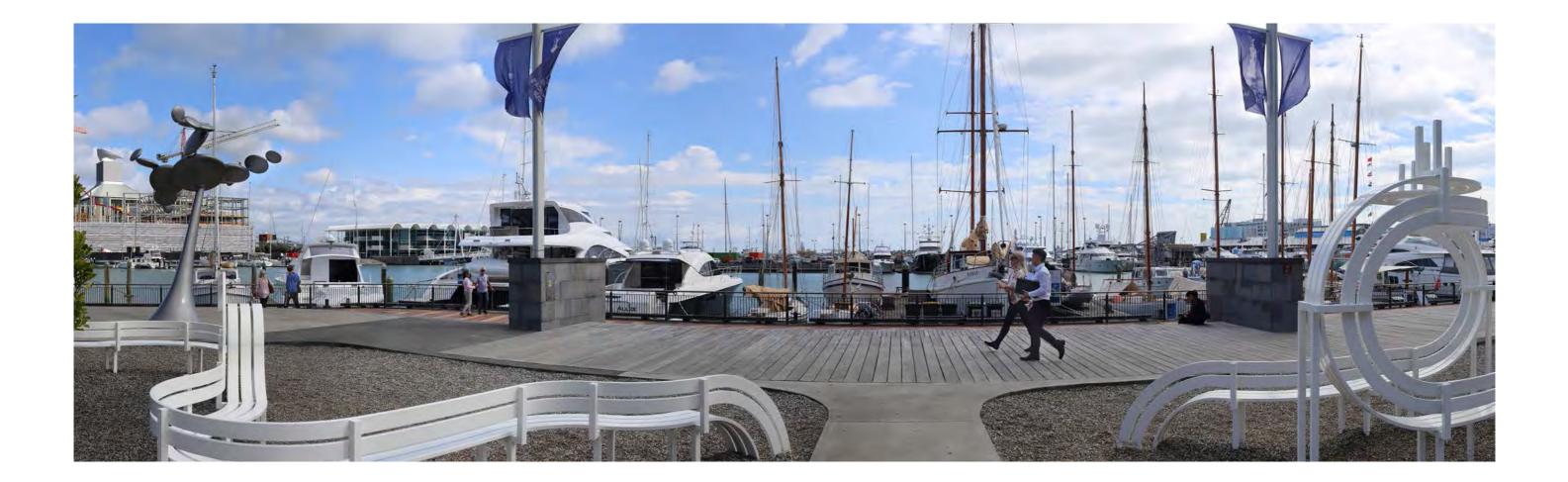


NZTM Easting : 1756743.8 mE NZTM Northing : 5920860.7 mN Elevation : 4.9m Approx Date of Photography : 9:56am, 22-Nov-17 Horizontal Field of View (Main Image): 90° Optimum viewing distance of image @ A3 is 190mm

Data sources: Photography - BML; Aerials 2015/16, LiDAR 2011 - ACC; Survey -BECA; CAD 2D Base - BECA; 3D Model - BML Sketchup

AC36 Lighter Quay Viaducy Harbour Avenue - Existing

| Date: 22-Dec-17 | Revision: 0 | Plan prepared for Panuku Development Ltd. by Boffa Miskell Limited Project Manager: john.goodwin@boffamiskell.co.nz@boffamiskell.co.nz | Drawn: | Checked:





 NZTM Easting
 : 1756976.9 mE

 NZTM Northing
 : 5921085.9 mN

 Elevation
 : 4.28m Approx

 Date of Photography : 10:15am, 22-Nov-17

Horizontal Field of View (Main Image): 125° Optimum viewing distance of image @ A3 is 100mm

> | Date: 22-Dec-17 | Revision: 0 | Plan prepared for Panuku Development Ltd. by Boffa Miskell Limited Project Manager: john.goodwin@boffamiskell.co.nz@boffamiskell.co.nz | Drawn: | Checked:

Data sources: Photography - BML; Aerials 2015/16, LiDAR 2011 - ACC; Survey -BECA; CAD 2D Base - BECA; 3D Model - BML Sketchup

AC36 Waitemata Plaza - Existing





 NZTM Easting
 : 1757414 mE

 NZTM Northing
 : 5921516.9 mN

 Elevation
 : 5.26m Approx

 Date of Photography
 : 11:22am, 2-Feb-17

Horizontal Field of View (Main Image): 125° Optimum viewing distance of image @ A3 is 100mm

> | Date: 22-Dec-17 | Revision: 0 | Plan prepared for Panuku Development Ltd. by Boffa Miskell Limited Project Manager: john.goodwin@boffamiskell.co.nz@boffamiskell.co.nz | Drawn: | Checked:

Data sources: Photography - BML; Aerials 2015/16, LiDAR 2011 - ACC; Survey -BECA; CAD 2D Base - BECA; 3D Model - BML Sketchup AC36 Princes Wharf - North West - Existing



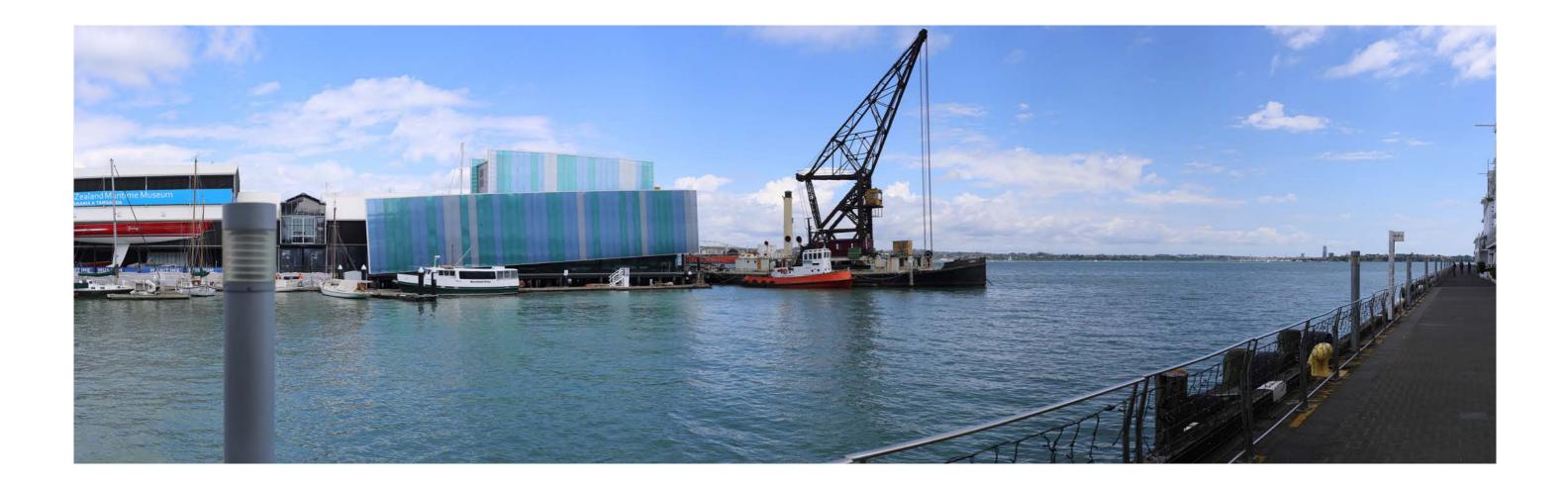


NZTM Easting : 1757416.6 mE NZTM Northing : 5921509 mN Elevation : 9.68m Approx Date of Photography: 10.53am, 22-Nov-17 Horizontal Field of View (Main Image): 125° Optimum viewing distance of image @ A3 is 100mm

| Date: 22-Dec-17 | Revision: 0 | Plan prepared for Panuku Development Ltd. by Boffa Miskell Limited Project Manager: john.goodwin@boffamiskell.co.nz@boffamiskell.co.nz | Drawn: | Checked:

Data sources: Photography - BML; Aerials 2015/16, LiDAR 2011 - ACC; Survey -BECA; CAD 2D Base - BECA; 3D Model - BML Sketchup

AC36 Princes Wharf - Water Viewing Deck - Existing





NZTM Easting : 1757328 mE NZTM Northing : 5921272.2 mN Elevation : 5.26m Approx Date of Photography: 11:11am, 22-Nov-17 Horizontal Field of View (Main Image): 125° Optimum viewing distance of image @ A3 is 100mm

| Date: 22-Dec-17 | Revision: 0 | Plan prepared for Panuku Development Ltd. by Boffa Miskell Limited Project Manager: john.goodwin@boffamiskell.co.nz@boffamiskell.co.nz | Drawn: | Checked:

Data sources: Photography - BML; Aerials 2015/16, LiDAR 2011 - ACC; Survey -BECA; CAD 2D Base - BECA; 3D Model - BML Sketchup

AC36 Princes Wharf outside Euro Restaurant - Existing





 NZTM Easting
 : 1757306.3 mE

 NZTM Northing
 : 5921173.5 mN

 Elevation
 : 5.27m Approx

 Date of Photography : 11:24am, 22-Nov-17

Horizontal Field of View (Main Image): 90° Optimum viewing distance of image @ A3 is 190mm AC36 Quay Street / Princes Wharf Intersection - Existing

| Date: 22-Dec-17 | Revision: 0 | Plan prepared for Panuku Development Ltd. by Boffa Miskell Limited Project Manager: john.goodwin@boffamiskell.co.nz@boffamiskell.co.nz | Drawn: | Checked:

Data sources: Photography - BML; Aerials 2015/16, LiDAR 2011 - ACC; Survey -BECA; CAD 2D Base - BECA; 3D Model - BML Sketchup





 NZTM Easting
 : 1757174.3 mE

 NZTM Northing
 : 5921205.3 mN

 Elevation
 : 4.91m Approx

 Date of Photography :
 9:37am, 4-Dec-17

Horizontal Field of View (Main Image): 125° Optimum viewing distance of image @ A3 is 100mm

> | Date: 22-Dec-17 | Revision: 0 | Plan prepared for Panuku Development Ltd. by Boffa Miskell Limited Project Manager: john.goodwin@boffamiskell.co.nz@boffamiskell.co.nz | Drawn: | Checked:

Data sources: Photography - BML; Aerials 2015/16, LiDAR 2011 - ACC; Survey -BECA; CAD 2D Base - BECA; 3D Model - BML Sketchup

AC36 Eastern Viaduct - Existing





 NZTM Easting
 : 1756921.5 mE

 NZTM Northing
 : 5921289.8 mN

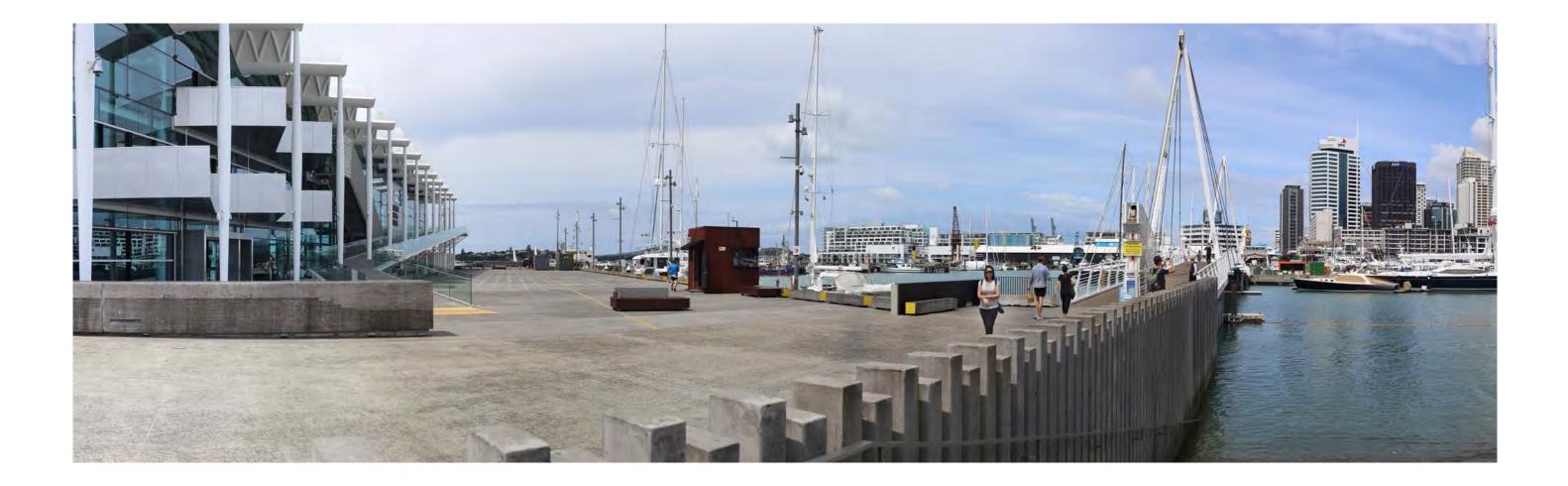
 Elevation
 : 6.68m Approx

 Date of Photography:
 : 3:05pm, 28-Nov-17

Horizontal Field of View (Main Image): 125° Optimum viewing distance of image @ A3 is 100mm

> | Date: 22-Dec-17 | Revision: 0 | Plan prepared for Panuku Development Ltd. by Boffa Miskell Limited Project Manager: john.goodwin@boffamiskell.co.nz@boffamiskell.co.nz | Drawn: | Checked:

Data sources: Photography - BML; Aerials 2015/16, LiDAR 2011 - ACC; Survey -BECA; CAD 2D Base - BECA; 3D Model - BML Sketchup AC36 Wynyard Crossing Bridge - Existing





 NZTM Easting
 : 1756860.5 mE

 NZTM Northing
 : 5921304.1 mN

 Elevation
 : 4.97m Approx

 Date of Photography:
 :11:55am, 22-Nov-17

Horizontal Field of View (Main Image): 125° Optimum viewing distance of image @ A3 is 100mm

> | Date: 22-Dec-17 | Revision: 0 | Plan prepared for Panuku Development Ltd. by Boffa Miskell Limited Project Manager: john.goodwin@boffamiskell.co.nz@boffamiskell.co.nz | Drawn: | Checked:

Data sources: Photography - BML; Aerials 2015/16, LiDAR 2011 - ACC; Survey -BECA; CAD 2D Base - BECA; 3D Model - BML Sketchup

AC36 Karanga Plaza - Existing





 NZTM Easting
 : 1756860.5 mE

 NZTM Northing
 : 5921304.1 mN

 Elevation
 : 11.69m Approx

 Date of Photography
 : 10:26am, 4-Dec-17

Horizontal Field of View (Main Image): 125° Optimum viewing distance of image @ A3 is 100mm AC36 VP10 - Events Centre Viewing Deck NE Corner - Existing

| Date: 13-Dec-17 | Revision: 1 | Plan prepared for Panuku Development Ltd. by Boffa Miskell Limited Project Manager: john.goodwin@boffamiskell.co.nz@boffamiskell.co.nz | Drawn: | Checked:

Data sources: Photography - BML; Aerials 2015/16, LiDAR 2011 - ACC; Survey -BECA; CAD 2D Base - BECA; 3D Model - BML Sketchup





 NZTM Easting
 : 1756896.3 mE

 NZTM Northing
 : 5921414.5 mN

 Elevation
 : 11.73m Approx

 Date of Photography
 : 10:34am, 4-Dec-17

Horizontal Field of View (Main Image): 125° Optimum viewing distance of image @ A3 is 100mm AC36 VP11 - Events Centre Viewing Deck NE Corner - Existing

| Date: 13-Dec-17 | Revision: 0 | Plan prepared for Panuku Development Ltd. by Boffa Miskell Limited Project Manager: john.goodwin@boffamiskell.co.nz@boffamiskell.co.nz | Drawn: | Checked:

Data sources: Photography - BML; Aerials 2015/16, LiDAR 2011 - ACC; Survey -BECA; CAD 2D Base - BECA; 3D Model - BML Sketchup





 NZTM Easting
 : 1756795.7 mE

 NZTM Northing
 : 5921337.3 mN

 Elevation
 : 4.91m Approx

 Date of Photography:
 : 4:03pm, 28-Nov-17

Horizontal Field of View (Main Image): 125° Optimum viewing distance of image @ A3 is 100mm AC36 VP12 - Halsey Street/ North Wharf Intersection -Existing

| Date: 13-Dec-17 | Revision: 0 | Plan prepared for Panuku Development Ltd. by Boffa Miskell Limited Project Manager: john.goodwin@boffamiskell.co.nz@boffamiskell.co.nz | Drawn: | Checked:

Data sources: Photography - BML; Aerials 2015/16, LiDAR 2011 - ACC; Survey -BECA; CAD 2D Base - BECA; 3D Model - BML Sketchup





NZTM Easting : 1756704 mE NZTM Northing : 5921370.6 mN Elevation : 4.88m Approx Date of Photography : 4:29pm, 12-Dec-17 Horizontal Field of View (Main Image): 125° Optimum viewing distance of image @ A3 is 100mm

Data sources: Photography - BML; Aerials 2015/16, LiDAR 2011 - ACC; Survey -BECA; CAD 2D Base - BECA; 3D Model - BML Sketchup

AC36 North Wharf outside Jack Tar Restaurant - Existing

| Date: 22-Dec-17 | Revision: 0 | Plan prepared for Panuku Development Ltd. by Boffa Miskell Limited Project Manager: john.goodwin@boffamiskell.co.nz@boffamiskell.co.nz | Drawn: | Checked:





NZTM Easting : 1756790.3 mE NZTM Northing : 5921046.4 mN Elevation : 4.12m Approx Date of Photography : 4:21pm, 28-Nov-17 Horizontal Field of View (Main Image): 125° Optimum viewing distance of image @ A3 is 100mm

Data sources: Photography - BML; Aerials 2015/16, LiDAR 2011 - ACC; Survey -BECA; CAD 2D Base - BECA; 3D Model - BML Sketchup

AC36 Lighter Quay Walkway Corner - Existing

| Date: 22-Dec-17 | Revision: 0 | Plan prepared for Panuku Development Ltd. by Boffa Miskell Limited Project Manager: john.goodwin@boffamiskell.co.nz@boffamiskell.co.nz | Drawn: | Checked:



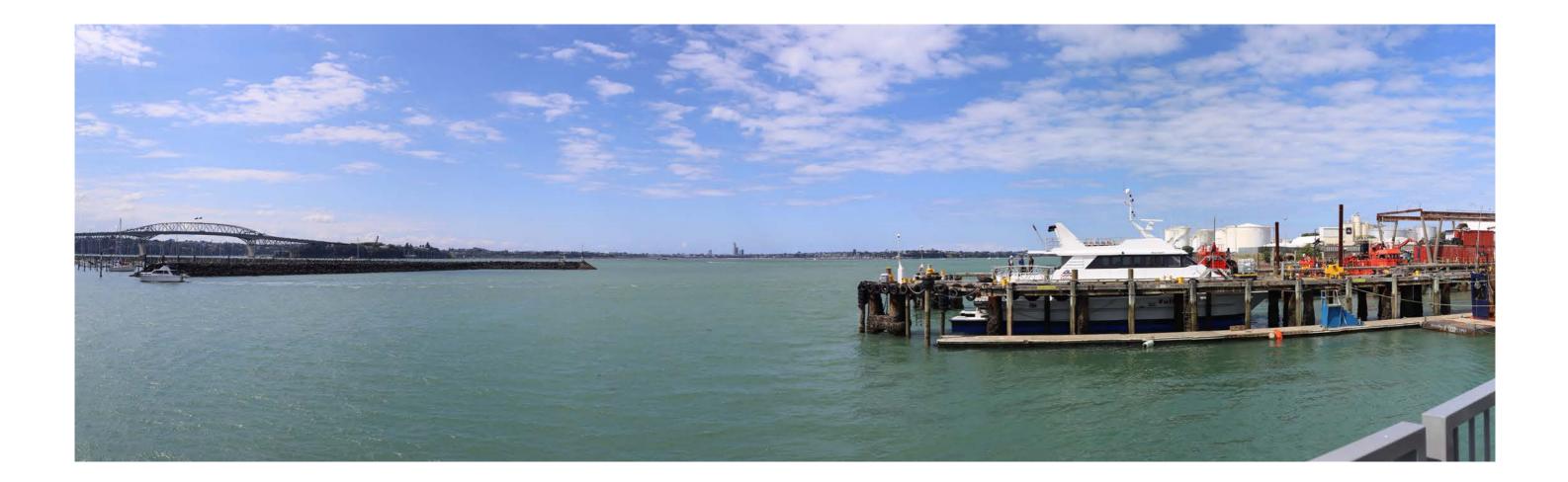


NZTM Easting : 1756546 mE NZTM Northing : 5921429.6 mN Elevation : 13.8m Approx Date of Photography : 3:41pm, 22-Nov-17 Horizontal Field of View (Main Image): 90° Optimum viewing distance of image @ A3 is 190mm

Data sources: Photography - BML; Aerials 2015/16, LiDAR 2011 - ACC; Survey -BECA; CAD 2D Base - BECA; 3D Model - BML Sketchup

AC36 Silo Park Gantry Structure (East End) - Existing

| Date: 22-Dec-17 | Revision: 0 | Plan prepared for Panuku Development Ltd. by Boffa Miskell Limited Project Manager: john.goodwin@boffamiskell.co.nz@boffamiskell.co.nz | Drawn: | Checked:





NZTM Easting : 1756386.6 mE NZTM Northing : 5921569.3 mN Elevation : 4.87m Approx Date of Photography: 3:48pm, 22-Nov-17 Horizontal Field of View (Main Image): 125° Optimum viewing distance of image @ A3 is 100mm

| Date: 22-Dec-17 | Revision: 0 | Plan prepared for Panuku Development Ltd. by Boffa Miskell Limited Project Manager: john.goodwin@boffamiskell.co.nz@boffamiskell.co.nz | Drawn: | Checked:

Data sources: Photography - BML; Aerials 2015/16, LiDAR 2011 - ACC; Survey -BECA; CAD 2D Base - BECA; 3D Model - BML Sketchup

AC36 Heritage Landing Wharf (Silo Marina) - Existing





 NZTM Easting
 : 1756924.4 mE

 NZTM Northing
 : 5921780.9 mN

 Elevation
 : 5.1m Approx

 Date of Photography:
 : 3:56pm, 22-Nov-17

Horizontal Field of View (Main Image): 125° Optimum viewing distance of image @ A3 is 100mm

> | Date: 22-Dec-17 | Revision: 0 | Plan prepared for Panuku Development Ltd. by Boffa Miskell Limited Project Manager: john.goodwin@boffamiskell.co.nz@boffamiskell.co.nz | Drawn: | Checked:

Data sources: Photography - BML; Aerials 2015/16, LiDAR 2011 - ACC; Survey -BECA; CAD 2D Base - BECA; 3D Model - BML Sketchup AC36 Wynyard Point (East Side) - Existing





 NZTM Easting
 : 1756128 mE

 NZTM Northing
 : 5921053.6 mN

 Elevation
 : 13.1m Approx

 Date of Photography:
 : 3:32pm, 22-Nov-17

Horizontal Field of View (Main Image): 90° Optimum viewing distance of image @ A3 is 190mm

> | Date: 22-Dec-17 | Revision: 0 | Plan prepared for Panuku Development Ltd. by Boffa Miskell Limited Project Manager: john.goodwin@boffamiskell.co.nz@boffamiskell.co.nz | Drawn: | Checked:

Data sources: Photography - BML; Aerials 2015/16, LiDAR 2011 - ACC; Survey -BECA; CAD 2D Base - BECA; 3D Model - BML Sketchup AC36 Jacobs Ladder Footbridge - Existing





NZTM Easting: 1755591 mENZTM Northing: 5921233 mNElevation: 20.2m ApproxDate of Photography: 2:06pm, 17-Aug-16

Horizontal Field of View (Main Image): 90° Optimum viewing distance of image @ A3 is 190mm

> | Date: 22-Dec-17 | Revision: 0 | Plan prepared for Panuku Development Ltd. by Boffa Miskell Limited Project Manager: john.goodwin@boffamiskell.co.nz@boffamiskell.co.nz | Drawn: | Checked:

Data sources: Photography - BML; Aerials 2015/16, LiDAR 2011 - ACC; Survey -BECA; CAD 2D Base - BECA; 3D Model - BML Sketchup AC36 Ring Terrace (already taken) - Existing



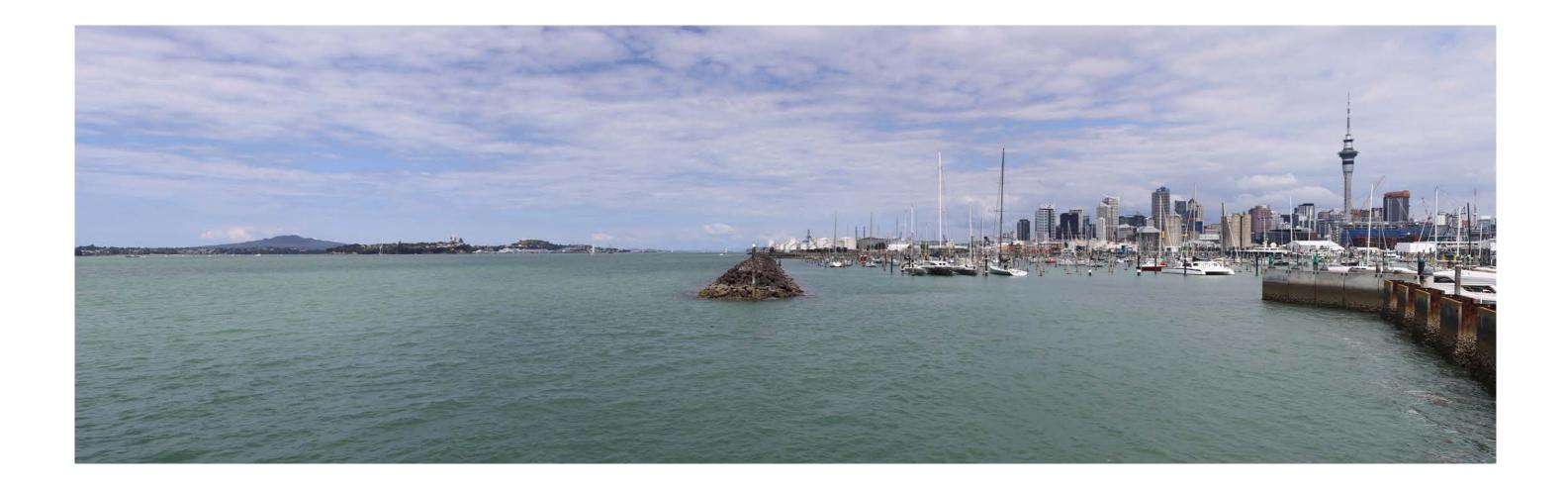


NZTM Easting: 1755312 mENZTM Northing: 5921601.8 mNElevation: 17m ApproxDate of Photography:: 3:24pm, 22-Nov-17

Horizontal Field of View (Main Image): 90° Optimum viewing distance of image @ A3 is 190mm

> | Date: 22-Dec-17 | Revision: 0 | Plan prepared for Panuku Development Ltd. by Boffa Miskell Limited Project Manager: john.goodwin@boffamiskell.co.nz@boffamiskell.co.nz | Drawn: | Checked:

Data sources: Photography - BML; Aerials 2015/16, LiDAR 2011 - ACC; Survey -BECA; CAD 2D Base - BECA; 3D Model - BML Sketchup AC36 Shelley Beach Overbridge - Existing





 NZTM Easting
 : 1755903.2 mE

 NZTM Northing
 : 5921937.9 mN

 Elevation
 : 4.51m Approx

 Date of Photography
 : 3:16pm, 22-Nov-17

Horizontal Field of View (Main Image): 90° Optimum viewing distance of image @ A3 is 190mm AC36 Westhaven Marina / Eastern Extent of Wharf - Existing

| Date: 22-Dec-17 | Revision: 0 | Plan prepared for Panuku Development Ltd. by Boffa Miskell Limited Project Manager: john.goodwin@boffamiskell.co.nz@boffamiskell.co.nz | Drawn: | Checked:

Data sources: Photography - BML; Aerials 2015/16, LiDAR 2011 - ACC; Survey -BECA; CAD 2D Base - BECA; 3D Model - BML Sketchup



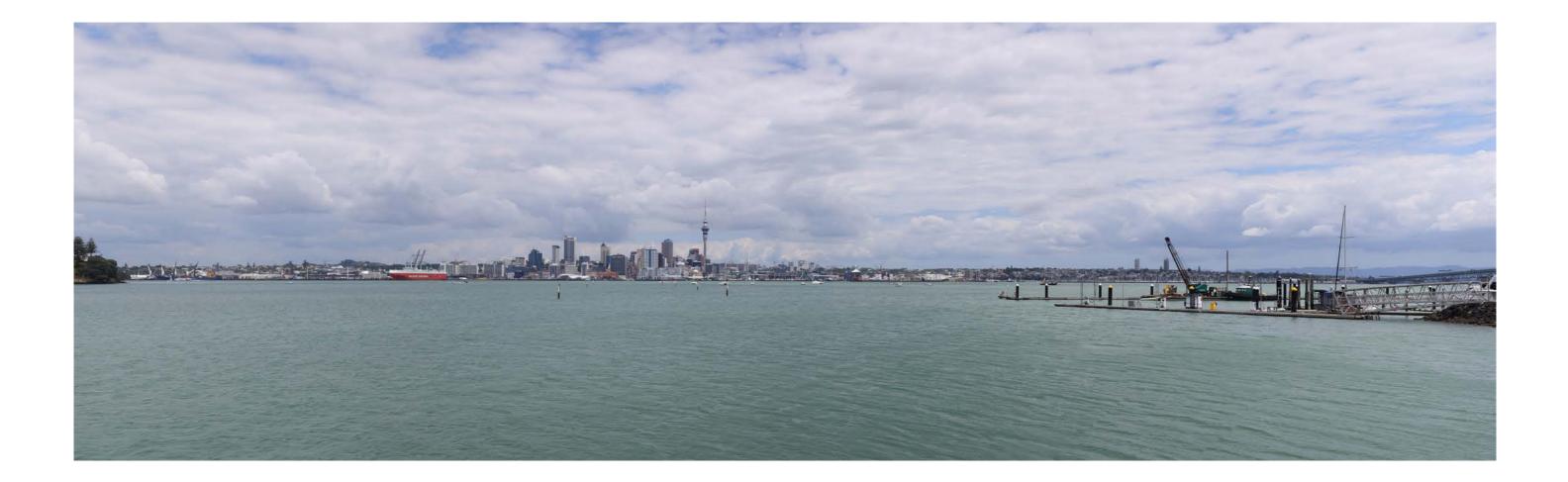


NZTM Easting : 1756154.7 mE NZTM Northing : 5923343.2 mN Elevation : 4.8m Approx Date of Photography : 2:35pm, 22-Nov-17 Horizontal Field of View (Main Image): 90° Optimum viewing distance of image @ A3 is 190mm

| Date: 22-Dec-17 | Revision: 0 | Plan prepared for Panuku Development Ltd. by Boffa Miskell Limited Project Manager: john.goodwin@boffamiskell.co.nz@boffamiskell.co.nz | Drawn: | Checked:

Data sources: Photography - BML; Aerials 2015/16, LiDAR 2011 - ACC; Survey -BECA; CAD 2D Base - BECA; 3D Model - BML Sketchup

AC36 Northcote Point (Dinghy Lockers) - Existing





NZTM Easting : 1757650.9 mE NZTM Northing : 5923491 mN Elevation : 4.7m Approx Date of Photography : 2:07pm, 22-Nov-17 Horizontal Field of View (Main Image): 90° Optimum viewing distance of image @ A3 is 190mm

Data sources: Photography - BML; Aerials 2015/16, LiDAR 2011 - ACC; Survey -BECA; CAD 2D Base - BECA; 3D Model - BML Sketchup

AC36 Bayswater Point (Old Wharf) - Existing

| Date: 22-Dec-17 | Revision: 0 | Plan prepared for Panuku Development Ltd. by Boffa Miskell Limited Project Manager: john.goodwin@boffamiskell.co.nz@boffamiskell.co.nz | Drawn: | Checked:





NZTM Easting : 1758160.9 mE NZTM Northing : 5922610.1 mN Elevation : 28.3m Approx Date of Photography: 1:34pm, 22-Nov-17 Horizontal Field of View (Main Image): 125° Optimum viewing distance of image @ A3 is 100mm

Data sources: Photography - BML; Aerials 2015/16, LiDAR 2011 - ACC; Survey -BECA; CAD 2D Base - BECA; 3D Model - BML Sketchup

AC36 Cyril Bassett VC Lookout / Stanley Point - Existing

| Date: 22-Dec-17 | Revision: 0 | Plan prepared for Panuku Development Ltd. by Boffa Miskell Limited Project Manager: john.goodwin@boffamiskell.co.nz@boffamiskell.co.nz | Drawn: | Checked:





 NZTM Easting
 : 1758830.6 mE

 NZTM Northing
 : 5922864 mN

 Elevation
 : 4.4m Approx

 Date of Photography:
 1:50pm, 22-Nov-17

Horizontal Field of View (Main Image): 90° Optimum viewing distance of image @ A3 is 190mm

> | Date: 22-Dec-17 | Revision: 0 | Plan prepared for Panuku Development Ltd. by Boffa Miskell Limited Project Manager: john.goodwin@boffamiskell.co.nz@boffamiskell.co.nz | Drawn: | Checked:

Data sources: Photography - BML; Aerials 2015/16, LiDAR 2011 - ACC; Survey -BECA; CAD 2D Base - BECA; 3D Model - BML Sketchup AC36 Stanley Bay / Seating Area - Existing





NZTM Easting : 1756447 mE NZTM Northing : 5922516.7 mN Elevation : m Approx Date of Photography : 2:01pm, 28-Nov-17 Horizontal Field of View (Main Image): 65° Optimum viewing distance of image @ A3 is 300mm

Data sources: Photography - BML; Aerials 2015/16, LiDAR 2011 - ACC; Survey -BECA; CAD 2D Base - BECA; 3D Model - BML Sketchup

AC36 Birkenhead Ferry West of Wynyard Point (Decant) - Existing

| Date: 22-Dec-17 | Revision: 0 | Plan prepared for Panuku Development Ltd. by Boffa Miskell Limited Project Manager: john.goodwin@boffamiskell.co.nz@boffamiskell.co.nz | Drawn: | Checked:





NZTM Easting : 1757442.5 mE NZTM Northing : 5921663.1 mN Elevation : m Approx Date of Photography : 2:01pm, 28-Nov-17 Horizontal Field of View (Main Image): 65° Optimum viewing distance of image @ A3 is 300mm

AC36 Birkenhead / Bayswater Ferry East of Wynyard Point (Wynyard Basin) -Existing | Date: 22-Dec-17 | Revision: 0 | Plan prepared for Panuku Development Ltd. by Boffa Miskell Limited Project Manager: john.goodwin@boffamiskell.co.nz@boffamiskell.co.nz | Drawn: | Checked:

Data sources: Photography - BML; Aerials 2015/16, LiDAR 2011 - ACC; Survey -BECA; CAD 2D Base - BECA; 3D Model - BML Sketchup





NZTM Easting : mE NZTM Northing : mN Elevation : m Approx Date of Photography : , 19-Dec-17 Horizontal Field of View (Main Image): 90° Optimum viewing distance of image @ A3 is 190mm

> | Date: 22-Dec-17 | Revision: 0 | Plan prepared for Panuku Development Ltd. by Boffa Miskell Limited Project Manager: john.goodwin@boffamiskell.co.nz@boffamiskell.co.nz | Drawn: | Checked:

Data sources: Photography - BML; Aerials 2015/16, LiDAR 2011 - ACC; Survey - BECA; CAD 2D Base - BECA; 3D Model - BML Sketchup

AC36 Princes Wharf Apartments - Level 5





NZTM Easting : mE NZTM Northing : mN Elevation : m Approx Date of Photography : , 19-Dec-17 Horizontal Field of View (Main Image): 90° Optimum viewing distance of image @ A3 is 190mm

> | Date: 22-Dec-17 | Revision: 0 | Plan prepared for Panuku Development Ltd. by Boffa Miskell Limited Project Manager: john.goodwin@boffamiskell.co.nz@boffamiskell.co.nz | Drawn: | Checked:

Data sources: Photography - BML; Aerials 2015/16, LiDAR 2011 - ACC; Survey -BECA; CAD 2D Base - BECA; 3D Model - BML Sketchup AC36 Princes Wharf Apartments - Level 1





NZTM Easting тE NZTM Northing : mN Elevation : m Approx Date of Photography : , 19-Dec-17 Horizontal Field of View (Main Image): 90° Optimum viewing distance of image @ A3 is 190mm

Data sources: Photography - BML; Aerials 2015/16, LiDAR 2011 - ACC; Survey -BECA; CAD 2D Base - BECA; 3D Model - BML Sketchup

AC36 The Point Apartments (Northern end) Level 1

| Date: 22-Dec-17 | Revision: 0 | Plan prepared for Panuku Development Ltd. by Boffa Miskell Limited Project Manager: john.goodwin@boffamiskell.co.nz@boffamiskell.co.nz | Drawn: | Checked:

FIGURE VP P3



\mathcal{C})
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NZTM Easting тE NZTM Northing : mN Elevation : m Approx Date of Photography : , 19-Dec-17

Horizontal Field of View (Main Image): 90° Optimum viewing distance of image @ A3 is 190mm

| Date: 22-Dec-17 | Revision: 0 | Plan prepared for Panuku Development Ltd. by Boffa Miskell Limited Project Manager: john.goodwin@boffamiskell.co.nz@boffamiskell.co.nz | Drawn: | Checked:

Data sources: Photography - BML; Aerials 2015/16, LiDAR 2011 - ACC; Survey -BECA; CAD 2D Base - BECA; 3D Model - BML Sketchup

AC36 The Point Apartments (Northern end) Level 3

FIGURE VP P4





NZTM Easting тE NZTM Northing : mN Elevation : m Approx Date of Photography : , 19-Dec-17

Data sources: Photography - BML; Aerials 2015/16, LiDAR 2011 - ACC; Survey -BECA; CAD 2D Base - BECA; 3D Model - BML Sketchup

Horizontal Field of View (Main Image): 90° Optimum viewing distance of image @ A3 is 190mm

AC36 The Point Apartments (Northern end) Level 5

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FIGURE VP P5

VISUAL SIMULATION METHODOLOGY

The simulations have been produced in accordance with the NZILA Best Practice Guidelines for Visual Simulations (BPG 10.2) and adhere to Boffa Miskell's internal Visualisation Guidelines.

Site Visit

Site photographs were taken with a Canon 6D digital SLR camera fitted with a 50mm focal length lens and mounted on a tripod and panoramic head. (0) The photos were taken at predetermined viewpoints (public and private) and the locations of each viewpoint were subsequently surveyed by Registered Surveyor. A number of other easily identifiable points visible in each photo were also surveyed to assist with photo matching.

Production

Using digital stitching software, each sequence of photographs was merged to create a panorama with a 90° or 65° horizontal field of view. These were stitched using a rectilinear transformation - (1).

An architectural model of the proposed development (positioned at it's correct height and location) was combined with 3D modelling of the wharves, LIDAR data and camera viewpoint data in visualisation software - (2).

Virtual camera views were then created in this file with the LIDAR point cloud data turned on. These views were then matched to the photographic panoramas - (3).

Meanwhile, a photorealistic rendering of the 3D model was exported from the visualisation software - (4).

The point cloud image and the rendering were matched together over the panorama - (5). A foreground mask containing intervening foreground detail was created - (6).

The final simulation was produced - (7) and all panoramas were then assembled using graphic design software.

Publishing and Viewing

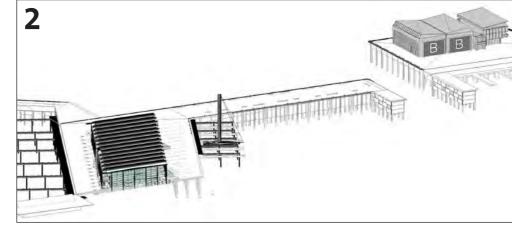
Simulations which have a horizontal field of view of 90° should be viewed from a distance of 20 cm when printed at A3. Those with a field of view of 65° should be viewed from a distance of 30 cm at A3. This will ensure that each simulation is viewed as if standing on-site at the actual camera location, and elements will appear "true to scale".

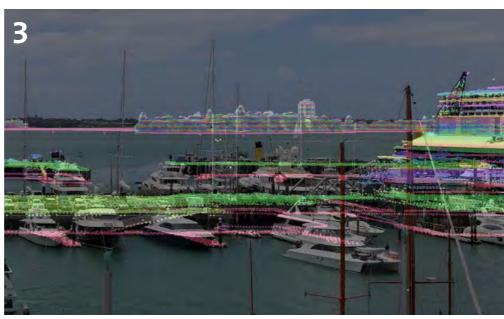




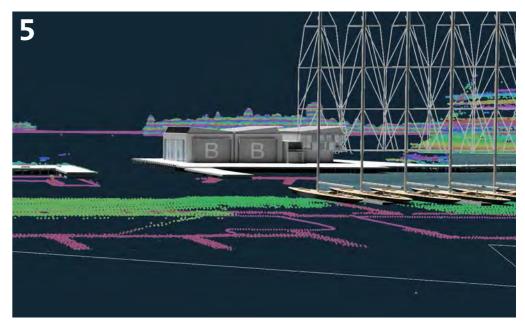
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File Ref: A17217_Sim_Methodology_A3L.indd



AMERICAS CUP WYNYARD HOBSON PROPOSAL VISUAL SIMULATIONS - METHODOLOGY

| Date: 9 April 2018 | Revision: 0 | Prepared for Panuku Developmment Ltd. by Boffa Miskell Ltd Project Manager: john.goodwin@boffamiskell.co.nz | Drawn: PMo | Checked: DIr