Before Hearing Commissioners at Christchurch

under: the Resource Management Act 1991

in the matter of: application RMA/2021/3921 for consents to demolish

the heritage-listed Grand National Stand at Riccarton

Racecourse

and: Canterbury Jockey Club

Applicant

Evidence of Chris Lang (quantity surveyor)

Dated: 17 August 2022

Reference: JM Appleyard (jo.appleyard@chapmantripp.com)

LMN Forrester (lucy.forrester@chapmantripp.com)





EVIDENCE OF CHRIS LANG

INTRODUCTION

- 1 My full name is Christopher David Lang. I am the Commercial Manager and Director of McKay Lang Limited, a Christchurch-based construction company.
- I have been a quantity surveyor for thirty years, I hold a BSc (Hons) in Commercial Management and Quantity Surveying from Loughborough University in the UK. I am also a member of the New Zealand Institute of Quantity Surveyors.
- 3 My experience is predominantly based on working for main contractors in the commercial sector. I have also worked for a structural steel subcontractor that specialises in structural strengthening.
- 4 My experience specifically relating to structural strengthening started ten years before the Canterbury Earthquakes when we strengthened many of the buildings in the laneways around Christchurch.
- Post-earthquake I delivered in excess of \$100,000,000 worth of insurance estimates to MWH Vero, securing \$40,000,000 back in actual construction work. My practical knowledge and expertise allows me to understand the building from a basic walk through and then to converse with the structural engineer to develop a solution. A skill which is evident in my estimate pricing that generally includes detail down to the nuts and bolts.
- I am familiar with the Canterbury Jockey Club's (*CJC*) application to demolish the heritage-listed Grand National Stand (*GNS*) at Riccarton Racecourse (the *Application*). I am authorised to give evidence on behalf of CJC.

CODE OF CONDUCT

Although this is not an Environment Court hearing, I note that in preparing my evidence I have reviewed the Code of Conduct for Expert Witnesses contained in Part 7 of the Environment Court Practice Note 2014. I have complied with it in preparing my evidence. I confirm that the issues addressed in this statement of evidence are within my area of expertise, except where relying on the opinion or evidence of other witnesses. I have not omitted to consider material facts known to me that might alter or detract from the opinions expressed.

SCOPE OF EVIDENCE

- 8 In preparing my evidence, I have reviewed:
 - 8.1 The Application;
 - 8.2 Responses to Council's further information requests;
 - 8.3 Submissions on the Application;
 - 8.4 The Officer's Report and associated appendices;
 - 8.5 The evidence of other witnesses for CJC; and
 - 8.6 The concept seismic strengthening design.
- 9 This evidence is divided as follows:
 - 9.1 The seismic strengthening works;
 - 9.2 The builders work associated with completing these works;
 - 9.3 The additional compliance related works that would need completing to enable a building consent to be issued;
 - 9.4 The works not included in a QS assessment that are likely to incur further costs; and
 - 9.5 Response to Officer's report and appendices.

SUMMARY OF AND UPDATED QUANTITY SURVEYING (QS) COST ESTIMATES

- 10 Based on the 34%NBS and 67%NBS solutions recommended and set out in the report of **Mr George**, I estimated in November 2021 that the cost of strengthening under those two options would be:
 - 10.1 \$ 13,869,828.00 for the 34%NBS solution; and
 - 10.2 \$ 16,190,339.00 for the 67%NBS solution.
- 11 Given the current construction climate giving rise to restricted building materials, increased steel prices, and labour delays (among other things) I have revisited my cost estimates for this hearing which I attach at **Appendix 1**. As of August 2022, I estimate that the cost of strengthening under those two options would be:
 - 11.1 \$ 15,796,470.00 for the 34%NBS solution; and
 - 11.2 \$ 18,063,342.00 for the 67%NBS solution.

THE QUANTITY SURVEYING (QS) ASSESSMENT – ASSUMPTIONS AND ATTRIBUTABLE COSTS

The Seismic Strengthening Works

- As part of my estimate preparation I made sure to thoroughly read and understand the concept proposed so that I could accurately cost the works. The concept proposed is similar to other schemes that I have worked on in the past and appeared to be the most appropriate way to strengthen the building.
- The value of the strengthening works is approximately 77% of the total value of the project, this percentage is applicable to both the 34% and 67%NBS options.
- 14 My estimate to complete the works includes all the necessary items required to complete the works which might not necessarily be shown on the concept design but would be required such as grouting, dry packing and the like.
- 15 There will be significant coordination required to complete these works due to the number of people and vehicle movements required to complete the works.

Builders work associated with the seismic strengthening works

- The value of the builders work required to complete these strengthening works is 21% of the total value of the project, this percentage is applicable to both the 34% and 67%NBS options.
- In completing this estimate, based on prior experience, I have assumed there is no chance to remove and replace linings, fixtures or fittings due to compliance issues from when the building was originally built through to the current day. So the estimate allows for new products throughout, and doesn't allow for any targeted decorating repairs. I consider this to be appropriate and realistic.
- When replacing linings the supporting structure (timber framing and the like) will need to be altered to allow fastenings to be installed to current best practice / product guidelines / building code. For example, additional timber would need to be added when fixing gib to allow for fixings at 300mm centres.

Additional compliance related works that would need completing to enable a building consent to be issued

- 19 The value of the works required to ensure compliance with current accessibility and life safety requirements is 2% of the project, this percentage is applicable to both the 34% and 67%NBS options.
- In making allowances for compliance requirements I have considered all the factors that we learned from a recent south island

wide strengthening programme we have completed, upgrading fire alarms systems, requirements for emergency lighting coverage, additional signage, and altering doors and hardware to allow easy exit in the direction of travel.

Works not included in a QS assessment that are likely to incur further costs

- This estimate relates to the concept design for strengthening works only, it does not take into account any works required to the building to repair other earthquake damage, or other parts of the structure (ie timber bleachers) that may have been affected due to the building not being in use.
 - 21.1 There could be a significant amount of crack injection to complete to the external elevation and some of the structural elements internally. The range for crack injection is between \$ 150 and \$ 185 per lm.
 - 21.2 Floor cracks requiring filling with a pourable grout could be completed for between \$ 60 and \$ 85 per lm.
 - 21.3 Replacement of timber bleacher seating including painting and fixings would be between \$ 45 and \$ 65 per lm, with each new metal bracket to support the runs of timber painted and including the appropriate level of corrosion protection at between \$ 450 and \$ 650 each installed.
 - 21.4 If panes of glass require replacing into existing frames this would be between \$ 180 and \$ 250 m2.
- The Aurecon peer review also notes that in addition to upgrading the seismic capacity the final scheme should allow for bringing the gravity and wind loads. These costs are not allowed for in this estimate, but from previous experience on another local racecourse stand upgrade this could require the following:
 - 22.1 Installation of cross bracing throughout the roof structure approximate cost of \$ 3,000 per pair of braces.
 - 22.2 Additional columns connecting the roof to the bleacher structure below approximate cost of \$ 5,000 per column.
 - 22.3 Upgrade of internal structure to provide load paths through the structure into increased foundation pads approximate cost for a 1 x 1 x 1m pad with a UB column of \$ 12,500 per pad and UB column.
 - 22.4 Installation of structural steel PFC's or the like to the floor supporting beams to increase the floor support beams

approximate cost of \$ 3,750 per nine metre length of PFC bolted to beams with chemset fixings.

In summary, there is likely to be an additional \$ 3,000,000 to \$ 5,000,000 worth of costs incurred that are not included in my QS estimate.

RESPONSE TO S 42A REPORT AND APPENDICES

I understand that the Council obtained a peer review of **Mr George's** report attached to the Application. This peer review considered the seismic strengthening concepts proposed were plausible and reasonable. I note that on this basis, the Council Officer did not consider it necessary to have my QS estimates peer reviewed.

Dated: 17 August 2022

Chris Lang

APPENDIX 1

Job Name :JOCKEY R3 34CJob Description

Client's Name: Kirk Roberts Consulting Riccarton Racecourse - Grand National Stand

| Trade Description | Trade | Cost/ m2 | | Labo | u r | Material | Sub Total | Mark | Trade |
|------------------------------------|--------|----------|-----|------|-------|------------|------------|------|---------------------|
| | % | | Qty | Rate | Total | Total | | Up % | Total |
| Grand National Stand - Riccarton | | | | | | | | | |
| Racecourse | | | | | | | | | |
| 34%NBS Budget Estimate | | | | | | | | | |
| Substructure | 8.59 | | | | | 1,179,484 | 1,179,484 | | 1,179,484 |
| Frame | 43.38 | | | | | 5,958,527 | 5,958,527 | | 5,958,527 |
| Upper Floors | 0.98 | | | | | 135,212 | 135,212 | | 135,212 |
| Structure Sub Total | | | | | | | | | 7,273,223.00 |
| External Walls | 4.76 | | | | | 653,645 | 653,645 | | 653,645 |
| External Fabric Subtotal | | | | | | | <u> </u> | | 653,645.00 |
| Ch.: | 0.00 | | | | | 20,000 | 20.022 | | 20.022 |
| Stairs | 0.20 | | | | | 28,030 | 28,030 | | 28,030 |
| Internal Walls, Partitions | 1.64 | | | | | 225,400 | 225,400 | | 225,400 |
| Floor Finishes | 3.62 | | | | | 497,794 | 497,794 | | 497,794 |
| Wall Finishes | 0.83 | | | | | 114,520 | 114,520 | | 114,520 |
| Ceiling Finishes | 2.08 | | | | | 285,900 | 285,900 | | 285,900 |
| Fittings and Fixtures | 0.70 | | | | | 96,470 | 96,470 | | 96,470 |
| Internal Finishing Subtotal | | | | | | | | | <u>1,248,114.00</u> |
| Plumbing and Drainage Services | 0.70 | | | | | 96,390 | 96,390 | | 96,390 |
| Fire Services | 1.21 | | | | | 166,560 | 166,560 | | 166,560 |
| Electrical and Data Services | 1.07 | | | | | 146,880 | 146,880 | | 146,880 |
| Lifts & Escalator | 0.29 | | | | | 39,440 | 39,440 | | 39,440 |
| Services Subtotal | | | | | | | | | 449,270.00 |
| External Works | 2.56 | | | | | 351,693 | 351,693 | | 351,693 |
| External Works & Sundries Subtotal | 2.30 | | | | | 331,033 | 331,073 | | <u>351,693.00</u> |
| | | | | | | | | | |
| Preliminaries | 6.48 | | | | | 890,620 | 890,620 | | 890,620 |
| Margin | 4.36 | | | | | 598,557 | 598,557 | | 598,557 |
| Contingency | 10.89 | | | | | 1,496,392 | 1,496,392 | | 1,496,392 |
| Prelims, Contingency Subtotal | | | | | | | | | 2,985,569.00 |
| Inflation | 5.64 | | | | | 774,547 | 774,547 | | 774,547 |
| Total Construction Cost | | | | | | | | | _13,736,061.00 |
| | 100.00 | | | 60 | | 13,736,061 | 13,736,061 | | 13,736,061 |

Final Total \$ 13,736,061 G.S.T. 15.00%: 2,060,409

Final Total Incl. G.S.T.: \$ 15,796,470

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Job Name: JOCKEY R3 34C Job Description

Client's Name: Kirk Roberts Consulting Riccarton Racecourse - Grand National Stand

| Item Description | Quantity | Unit | Material Rate | Mark Up % | Labour Factor | Labour Qty | Labour Rate | Amount |
|---|-----------|------|------------------|--------------|------------------|---------------|----------------|--------------|
| Trade: <u>Substructure</u> | | | | | | | | |
| | | | | | | | | |
| Level 0 - New Ground Beams | | | | | | | | |
| Sawcut, breakout and dispose concrete slab internally, working carefully around existing columns | 243.00 | m2 | 85.00 | | | | | 20,655.00 |
| Sawcut, breakout and dispose concrete slab externally, working carefully around existing panels and columns | 23.00 | m2 | 85.00 | | | | | 1,955.00 |
| Carefully cut sections of external columns and scabble | 1.00 | no | 1,105.00 | | | | | 1,105.00 |
| Hand excavate and dispose off site from above areas | 532.00 | m3 | 225.00 | | | | | 119,700.00 |
| Backfill with suitable fill and compact ready for concrete | 27.00 | m3 | 270.00 | | | | | 7,290.00 |
| Place and brace formwork | 421.00 | m2 | 65.00 | | | | | 27,365.00 |
| Drill and epoxy bar through column foundation (reinforcing measured elsewhere) | 28.00 | no | 34.50 | | | | | 966.00 |
| Drill and epoxy starters into existing foundation beam (reinforcing measured elsewhere) | 740.00 | no | 34.50 | | | | | 25,530.00 |
| Supply and place reinforcing | 86,335.00 | kg | 7.50 | | | | | 647,512.50 |
| Supply and place 30MPa pump mix concrete to ground beams, back up to slab level. Finish to a F5 finish | 559.00 | m3 | 435.00 | | | | | 243,165.00 |
| Existing Stairs and Ramps | | | | | | | | |
| Excavate and dispose off site from above areas | 80.00 | m3 | 225.00 | | | | | 18,000.00 |
| Backfill with suitable fill and compact ready for concrete | 48.00 | m3 | 270.00 | | | | | 12,960.00 |
| Supply and place reinforcing | 4,320.00 | kg | 7.50 | | | | | 32,400.00 |
| Supply and place 30MPa pump mix concrete to ground beams, back up to slab level. Finish to a F5 finish | 48.00 | m3 | 435.00 | | | | | 20,880.00 |
| | | | | | Substr | ucture T | otal: | 1,179,483.50 |

Job Name: JOCKEY R3 34C Job Description

Client's Name: Kirk Roberts Consulting Riccarton Racecourse - Grand National Stand

| Item Description | Quantity | Unit | Material Rate | Mark Up % | Labour Factor | Labour Qty | Labour Rate | Amount |
|---|------------|------|------------------|--------------|------------------|---------------|----------------|--------------|
| Trade: Frame | | | | | | | | |
| | | | | | | | | |
| Levels 1 - 4 - New Super Columns and | | | | | | | | |
| Beams - Assumed Poured in Five Lifts | | | | | | | | |
| Scabble the edges of each column to be poured against | 988.00 | m | 40.00 | | | | | 39,520.00 |
| Reo Scan, drill columns ready for post tensioned bars | 884.00 | no | 56.00 | | | | | 49,504.00 |
| Supply and place reinforcing | 158,671.00 | kg | 7.50 | | | | | 1,190,032.50 |
| Supply and place Macalloy Post Tensioned system | 1,560.00 | no | 570.00 | | | | | 889,200.00 |
| Supply, place, strike and move formwork. Assumed two sets of formwork, struck after three days and relocated to floor above | 3,202.00 | m2 | 215.00 | | | | | 688,430.00 |
| Supply, place, strike formwork to form nib to cover post tensioning. Assumed two sets of formwork, struck after three days and relocated to floor above | 138.00 | m2 | 215.00 | | | | | 29,670.00 |
| Supply and place 30MPa pump mix concrete to columns and beams. Finish to a F5 finish | 783.00 | m3 | 550.00 | | | | | 430,650.00 |
| Supply and place 30MPa pump mix concrete to form nib to cover post tensioning. Finish to a F5 finish | 9.00 | m3 | 550.00 | | | | | 4,950.00 |
| REV 2 - New Bleacher Support Frames and Additional Main Build Floor Support Beams | | | | | | | | |
| Scabble the edges of each column to be poured against | 171.00 | m | 40.00 | | | | | 6,840.00 |
| Reo Scan, drill columns ready for post tensioned bars | 155.00 | no | 56.00 | | | | | 8,680.00 |
| Supply and place reinforcing | 13,172.25 | kg | 7.50 | | | | | 98,791.88 |
| Supply and place Macalloy Post Tensioned system | 155.00 | no | 570.00 | | | | | 88,350.00 |
| Supply, place, strike and move formwork. Assumed two sets of formwork, struck after three days and relocated to floor above | 307.80 | m2 | 215.00 | | | | | 66,177.00 |
| Supply, place, strike formwork to form nib to cover post tensioning. Assumed two sets of formwork, struck after three days and relocated to floor above | 189.00 | m2 | 215.00 | | | | | 40,635.00 |

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Job Name: JOCKEY R3 34C Job Description

Client's Name: Kirk Roberts Consulting Riccarton Racecourse - Grand National Stand

| Item Description | Quantity | Unit | Material Rate | Mark Up % | Labour Factor | Labour Qty | Labour Rate | Amount |
|---|------------|------|------------------|--------------|------------------|---------------|----------------|--------------|
| Trade: Frame | | | | | | | | (Continued) |
| Supply and place 30MPa pump mix concrete to columns and beams. Finish to a F5 finish | 65.00 | m3 | 550.00 | | | | | 35,750.00 |
| Supply and place 30MPa pump mix concrete to form nib to cover post tensioning. Finish to a F5 finish | 18.90 | m3 | 550.00 | | | | | 10,395.00 |
| Reid Bracing to Bleachers | | | | | | | | |
| | | | | | | | | |
| Supply and install RB32 reid bracing as detailed internally. Assumed fixed to concrete with 12mm plate fabricated brackets | 3.00 | no | 36,912.00 | | | | | 110,736.00 |
| Supply and install RB32 reid bracing as detailed externally. Assumed fixed to steel with 12mm plate fabricated brackets | 1.00 | no | 37,110.00 | | | | | 37,110.00 |
| Supply and install RB32 reid bracing as detailed to roof space above floors. Assumed fixed to steel with 12mm plate fabricated brackets | 4.00 | no | 10,970.00 | | | | | 43,880.00 |
| | | | | | | | | |
| Lift Shaft | | | | | | | | |
| Break out pocket in wall for drag bars | 4.00 | no | 530.00 | | | | | 2,120.00 |
| Supply and install drag bars | 16.00 | no | 1,440.00 | | | | | 23,040.00 |
| Supply and install carbon fibre strips | 4.00 | no | 1,260.00 | | | | | 5,040.00 |
| General Concrete Repairs | | | | | | | | |
| Allow to repair spalling to existing concrete frames as works progress | 25.00 | no | 395.00 | | | | | 9,875.00 |
| Allow for low pressure epoxy injection to cracks, finished ready for decoration | 350.00 | m | 185.00 | | | | | 64,750.00 |
| Existing Stairs and Ramps | | | | | | | | |
| Demolish existing damaged precast concrete and ramps and stairs | 1.00 | no | 75,000.00 | | | | | 75,000.00 |
| Engineer design formwork and propping solution for new insitu steps and ramps | 1.00 | no | 375,000.00 | | | | | 375,000.00 |
| Supply and place reinforcing | 109,440.00 | kg | 7.50 | | | | | 820,800.00 |
| Supply and place 30MPa pump mix concrete to columns, beams, and deck | 912.00 | m3 | 550.00 | | | | | 501,600.00 |
| Connections to existing building | 4.00 | no | 12,500.00 | | | | | 50,000.00 |
| Galvanised steel handrails | 240.00 | m | 675.00 | | | | | 162,000.00 |
| | | 1 | + | - | | Frame T | otal : | 5,958,526.38 |

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Job Name: <u>JOCKEY R3 34C</u> <u>Job Description</u>

Client's Name: Kirk Roberts Consulting Riccarton Racecourse - Grand National Stand

| Item Description | Quantity | Unit | Material | Mark | Labour | Labour | Labour | Amount |
|--|----------|------|----------|------|--------------|----------|--------|------------|
| | | | Rate | Up % | Factor | Qty | Rate | |
| | | | | | | | | |
| Trade: <u>Upper Floors</u> | | 1 | | | | | | |
| | | | | | | | | |
| Levels 1 - 4 - Generally | | | | | | | | |
| | | | | | | | | |
| Supply and install temporary props for the | 264.00 | no | 360.00 | | | | | 95,040.00 |
| duration of the works; props placed slab to | | | | | | | | |
| slab | | | | | | | | |
| Supply and install temporary barriers to edges | 579.00 | m | 18.00 | | | | | 10,422.00 |
| of open excavations on floors | | | | | | | | |
| | | | | | | | | |
| General Concrete Repairs | | | | | | | | |
| - Control of the Cont | | | | | | | | |
| Allow for gravity placed epoxy mortar repairs | 350.00 | m | 85.00 | | | | | 29,750.00 |
| to floor slab, includes for V grooving slab and | | | | | | | | |
| finishing ready for carpet | | | | | | | | |
| | | | | | <u>Upper</u> | Floors T | otal : | 135,212.00 |

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Job Name: JOCKEY R3 34C Job Description

Client's Name: Kirk Roberts Consulting Riccarton Racecourse - Grand National Stand

| Item Description | Quantity | Unit | Material | Mark | Labour | Labour | Labour | Amount |
|---|----------|------|----------|------|----------|---------|--------|------------|
| | | | Rate | Up % | Factor | Qty | Rate | |
| | | | | | | | | |
| Trade: External Walls | | T | | 1 1 | | | | |
| | | | | | | | | |
| Saw Cuts to Spandrel Panels | | | | | | | | |
| | | | | | | | | |
| Saw cut and break out 100mm of wall panels | 68.00 | m | 55.00 | | | | | 3,740.00 |
| Install slip brackets and install flexible weatherproof sealant | 120.00 | no | 395.00 | | | | | 47,400.00 |
| Compliance Upgrades | | | | | | | | |
| Allow to remove existing door and replace with door and half doorset on hold opens to | 1.00 | no | 5,750.00 | | | | | 5,750.00 |
| the Ground Floor entry doors | | | | | | | | |
| Add manifestations to entry doors | 2.00 | no | 650.00 | | | | | 1,300.00 |
| Add hold opens to the doors at the top of Stair 2 A&B | 2.00 | no | 1,850.00 | | | | | 3,700.00 |
| ZACD | | | | | | | | |
| General Concrete Repairs | | | | | | | | |
| Allow to repair spalling to existing concrete | 50.00 | no | 395.00 | | | | | 19,750.00 |
| frames as works progress | | | | | | | | |
| Allow for low pressure epoxy injection to cracks, finished ready for decoration | 2,500.00 | m | 185.00 | | | | | 462,500.00 |
| Allow to paint all walls following crack repair | 1,991.00 | m2 | 55.00 | | | | | 109,505.00 |
| | 1 | | | 1 | External | Walls T | otal : | 653,645.00 |

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Job Name: JOCKEY R3 34C Job Description

Client's Name: Kirk Roberts Consulting Riccarton Racecourse - Grand National Stand

| Item Description | Quantity | Unit | Material | Mark | Labour | Labour | Labour | Amount |
|--|----------|------|----------|------|--------|-----------------|--------|-----------|
| | | | Rate | Up % | Factor | Qty | Rate | |
| Trade: <u>Stairs</u> | | | | | | | | |
| | | | | | | | | |
| Compliance Upgrades | | | | | | | | |
| | | | | | | | | |
| Provide colour contrast and tactile indicators | 13.00 | no | 1,560.00 | | | | | 20,280.00 |
| to all stairs | | | | | | | | |
| Supply and install new handrails to stair 1 | 1.00 | no | 540.00 | | | | | 540.00 |
| Upgrade handrails to Stiars 4, 5, 6, 7, 9 | 1.00 | no | 3,940.00 | | | | | 3,940.00 |
| Close in open risers to Stair 4 | 1.00 | no | 2,040.00 | | | | | 2,040.00 |
| | | | | | | | | |
| Ramps 1 and 2 upgrade handrails | 1.00 | no | 1,230.00 | | | | | 1,230.00 |
| | | | | | | Stairs T | otal : | 28,030.00 |

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Job Name: JOCKEY R3 34C Job Description

Client's Name: Kirk Roberts Consulting Riccarton Racecourse - Grand National Stand

| Item Description | Quantity | Unit | Material | Mark | Labour | Labour | Labour | Amount |
|--|----------|------|----------|-----------|------------|-----------|--------|------------|
| | | | Rate | Up % | Factor | Qty | Rate | |
| Trade: <u>Internal Walls, Partitions</u> | | | | | | | | |
| | | | | | | | | |
| All Levels | | | | | | | | |
| | | | | | | | | |
| Allow to remove and dispose of internal partitions as requried to complete the works | 805.00 | m2 | 85.00 | | | | | 68,425.00 |
| Allow to reinstate timber framed plasterboard walls removed previously | 805.00 | m2 | 195.00 | | | | | 156,975.00 |
| · | | | I | nternal ' | Walls, Par | titions T | otal : | 225,400.00 |

Job Name: JOCKEY R3 34C Job Description

Client's Name: Kirk Roberts Consulting Riccarton Racecourse - Grand National Stand

| Item Description | Quantity | Unit | Material | Mark | Labour | Labour | Labour | Amount |
|--|----------|------|----------|------|---------|-----------|--------|------------|
| | | | Rate | Up % | Factor | Qty | Rate | |
| Trade: Floor Finishes | | | | | | | | |
| | | | | | | | | |
| All Levels | | | | | | | | |
| Uplift and dispose all floor coverings | 3,272.00 | m2 | 56.00 | | | | | 183,232.00 |
| throughout to allow for demolition | | | | | | | | |
| Grind floors and lay new carpet tiles | 3,272.00 | m2 | 85.00 | | | | | 278,120.00 |
| Extra value for vinyl to toilet and kitchen areas | 654.40 | m2 | 55.00 | | | | | 35,992.00 |
| Complinace Upgrades | | | | | | | | |
| Extra value to ramp up to one side of entry door to Level 2 main bar entry | 1.00 | no | 450.00 | | | | | 450.00 |
| | I | | | 1 | Floor F | inishes T | otal : | 497,794.00 |

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Riccarton Racecourse - Grand National Stand

Job Name: JOCKEY R3 34C Job Description

Client's Name:

Kirk Roberts Consulting

Quantity Unit Material **Item Description** Mark Labour Labour Labour Amount Rate Up % **Factor** Qty Wall Finishes Trade: All Levels Allow to paint all walls and partitions 35.00 114,520.00 3,272.00 m2 **Wall Finishes** Total: 114,520.00

Mckay Lang Ltd Page: 9 of 20 Date of Printing: 15/Aug/22

Job Name: JOCKEY R3 34C Job Description

Client's Name: Kirk Roberts Consulting Riccarton Racecourse - Grand National Stand

| Item Description | Quantity | Unit | Material | Mark | Labour | Labour | Labour | Amount |
|--|----------|------|----------|------|-----------|-----------------|--------|------------|
| | | | Rate | Up % | Factor | Qty | Rate | |
| Trade: Ceiling Finishes | | | | | | | | |
| All Levels | | | | | | | | |
| Allow to remove and dispose existing ceiling linings to allow concrete works | 894.00 | m2 | 45.00 | | | | | 40,230.00 |
| Allow to frame out and reinstate ceilings, | 894.00 | m2 | 165.00 | | | | | 147,510.00 |
| finished ready for painting Allow to paint all ceilings throughout level | 3,272.00 | m2 | 30.00 | | | | | 98,160.00 |
| | | | | | Ceiling F | <u>nishes</u> T | otal: | 285,900.00 |

Job Name: JOCKEY R3 34C Job Description

Client's Name: Kirk Roberts Consulting Riccarton Racecourse - Grand National Stand

| Item Description | Quantity | Unit | Material Rate | Mark Up % | Labour Factor | Labour Qty | Labour Rate | Amount |
|---|----------|------|------------------|--------------|------------------|---------------|----------------|-----------|
| Trade: <u>Fittings and Fixtures</u> | | | | | | | | |
| | | | | | | | | |
| All Levels | | | | | | | | |
| Allow to remove and store fixtures and fittings from all floors, reinstate on completion of the works | 4.00 | no | 19,500.00 | | | | | 78,000.00 |
| | | | | | | | | |
| Complinace Upgrades | | | | | | | | |
| Add accessible counters to all existing counters | 7.00 | no | 1,610.00 | | | | | 11,270.00 |
| Adjust bleacher seating to provide wheelchair spaces | 1.00 | no | 2,700.00 | | | | | 2,700.00 |
| Upgrade building accessible signage | 1.00 | no | 4,500.00 | | | | | 4,500.00 |
| | <u>'</u> | • | <u>'</u> | <u>Fitti</u> | ngs and Fi | xtures T | otal : | 96,470.00 |

Mckay Lang Ltd Page: 11 of 20 Date of Printing: 15/Aug/22

Job Name: JOCKEY R3 34C Job Description

Client's Name: Kirk Roberts Consulting Riccarton Racecourse - Grand National Stand

| Item Description | Quantity | Unit | Material | Mark | Labour | Labour | Labour | Amount |
|---|----------|------|-----------|-------------|------------|----------|--------|-----------|
| | | | Rate | Up % | Factor | Qty | Rate | |
| Trade: Plumbing and Drainage Services | | | | | | | | |
| | | | | | | | | |
| All Levels | | | | | | | | |
| | | | | | | | | |
| Allow to remove and dispose existing fittings | 9.00 | no | 450.00 | | | | | 4,050.00 |
| to allow installation of super columnns | | | | | | | | |
| Allow to alter pipework and install new | 9.00 | no | 10,260.00 | | | | | 92,340.00 |
| compliant bathrooms | | | | | | | | |
| | | • | Plumbin | g and D | rainage Se | rvices T | otal : | 96,390.00 |

Mckay Lang Ltd Page: 12 of 20 Date of Printing: 15/Aug/22

Job Name: JOCKEY R3 34C Job Description

Client's Name: Kirk Roberts Consulting Riccarton Racecourse - Grand National Stand

| Item Description | Quantity | Unit | Material | Mark | Labour | Labour | Labour | Amount |
|--|----------|-------|----------|------|---------|-----------|--------|------------|
| | | | Rate | Up % | Factor | Qty | Rate | |
| Trade: <u>Fire Services</u> | | | | | | | | |
| All Levels | | | | | | | | |
| | | | | | | | | |
| Allow for isolations as required to complete the works, ensuring building is protected when site is closed | 36.00 | weeks | 1,900.00 | | | | | 68,400.00 |
| Allow to complete an upgrade to assumed a Type 4 system with all cable run in conduit | 3,272.00 | m2 | 30.00 | | | | | 98,160.00 |
| | | • | | | Fire So | ervices T | otal: | 166,560.00 |

Job Name: JOCKEY R3 34C Job Description

Client's Name: Kirk Roberts Consulting Riccarton Racecourse - Grand National Stand

| Item Description | Quantity | Unit | Material Rate | Mark Up % | Labour Factor | Labour Qty | Labour Rate | Amount |
|---|----------|-------|------------------|--------------|------------------|---------------|----------------|------------|
| Trade: Electrical and Data Services | | | | | | | | |
| | | | | | | | | |
| All Levels | | | | | | | | |
| | | | | | | | | |
| <u>Toilets</u> | | | | | | | | |
| | | | | | | | | |
| Allow to remove and dispose existing fittings | 9.00 | no | 450.00 | | | | | 4,050.00 |
| to allow installation of super columnns | | | | | | | | |
| Allow to alter cabling and install new fittings | 9.00 | no | 5,940.00 | | | | | 53,460.00 |
| Public Areas | | | | | | | | |
| General disconnections and alterations to | 36.00 | weeks | 1,875.00 | | | | | 67,500.00 |
| public areas to allow installation of super columns | | | | | | | | , |
| Extra value for replacement fittings not | 1.00 | no | 21,870.00 | | | | | 21,870.00 |
| suitable for reuse | | | | | | | | |
| | | | Ele | ctrical a | nd Data Se | ervices T | otal : | 146,880.00 |

Job Name: <u>JOCKEY R3 34C</u> <u>Job Description</u>

Client's Name: Kirk Roberts Consulting Riccarton Racecourse - Grand National Stand

| Item Description | Quantity | Unit | Material Rate | Mark Up % | Labour Factor | Labour Qty | Labour Rate | Amount |
|--|----------|------|------------------|--------------|------------------|---------------|----------------|-----------|
| Trade: <u>Lifts & Escalator</u> | | | | | | | | |
| | | | | | | | | |
| Generally | | | | | | | | |
| Allow for a lift engineer to attend site and | 4.00 | no | 1,110.00 | | | | | 4,440.00 |
| move lift as requried for liftshaft strengthening works | | | | | | | | |
| | | | | | | | | |
| Upgrade internal lift car to comply with current code | 1.00 | no | 35,000.00 | | | | | 35,000.00 |
| | 1 | | | | Lifts & Eso | calator T | otal : | 39,440.00 |

Job Name: JOCKEY R3 34C Job Description

Client's Name: Kirk Roberts Consulting Riccarton Racecourse - Grand National Stand

| Item Description | Quantity | Unit | Material Rate | Mark Up % | Labour Factor | Labour Qty | Labour Rate | Amount |
|--|-----------|------|------------------|--------------|------------------|---------------|----------------|------------|
| Trade: <u>External Works</u> | | | | | | | | |
| | | | | | | | | |
| Generally | | | | | | | | |
| Allow to reinsate tarmac to outside of building line where new ground beams placed | 1.00 | no | 4,500.00 | | | | | 4,500.00 |
| Allow to install additional accessible car parks as required | 1.00 | no | 1,250.00 | | | | | 1,250.00 |
| Allow to remove existing asphalt and increase area to provide compliant gradient | 2.00 | no | 3,750.00 | | | | | 7,500.00 |
| Retaining Wall to Front of Stand | | | | | | | | |
| Allow to remove external landscaping for wall replacement | 1.00 | no | 7,500.00 | | | | | 7,500.00 |
| Allow to breakout and remove existing wall, foundation and apron to allow replacement of wall | 90.00 | m | 225.00 | | | | | 20,250.00 |
| Allow to shape ground to receive new cantilevered foundation | 90.00 | m | 35.00 | | | | | 3,150.00 |
| Backfill with suitable fill and compact ready for concrete | 108.00 | m3 | 270.00 | | | | | 29,160.00 |
| Place and brace formwork | 513.00 | m2 | 65.00 | | | | | 33,345.00 |
| Supply and place reinforcing | 19,375.00 | kg | 7.50 | | | | | 145,312.50 |
| Supply and place 30MPa pump mix concrete to ground beams, back up to slab level. Finish to a F5 finish | 155.00 | m3 | 435.00 | | | | | 67,425.00 |
| Paint wall | 360.00 | m2 | 55.00 | | | | | 19,800.00 |
| Reinstate landscaping | 1.00 | no | 12,500.00 | | | | | 12,500.00 |
| | | 1 | | 1 | External | Works T | Cotal: | 351,692.50 |

Job Name: JOCKEY R3 34C Job Description

Client's Name: Kirk Roberts Consulting Riccarton Racecourse - Grand National Stand

| Item Description | Quantity | Unit | Material Rate | Mark Up % | Labour Factor | Labour Qty | Labour Rate | Amount |
|--|----------|-------|------------------|--------------|------------------|---------------|----------------|------------|
| Trade: Preliminaries | | | | | | | | |
| Trade: <u>Preliminaries</u> | | | | | | | | |
| Site Establishement | | | | | | | | |
| Site Container Hire - Ino | 42.00 | weeks | 52.50 | | | | | 2,205.00 |
| Site Container Establishment and Removal | 1.00 | | 630.00 | | | | | 630.00 |
| Site Office Hire - Ino | 42.00 | no | | | | | | |
| | | weeks | 183.75 | | | | | 7,717.50 |
| Site Office Establishment and Removal | 1.00 | no | 630.00 | | | | | 630.00 |
| Site Lunch Room - 2no | 42.00 | weeks | 472.50 | | | | | 19,845.00 |
| Site Lunch Room Establishment and Removal | 1.00 | no | 630.00 | | | | | 630.00 |
| Site Toilet Block - 3no | 42.00 | weeks | 236.25 | | | | | 9,922.50 |
| Site Lunch Room Establishment and Removal | 1.00 | no | 630.00 | | | | | 630.00 |
| Site Fencing | 42.00 | weeks | 831.60 | | | | | 34,927.20 |
| Site Fencing Establishment, Maintenance and Removal | 1.00 | no | 6,240.00 | | | | | 6,240.00 |
| Site Supervision | | | | | | | | |
| Project Manager - 100% supervision | 42.00 | weeks | 3,375.00 | | | | | 141,750.00 |
| Working Site Foreman - 4no - 50% working, | 42.00 | weeks | 1,350.00 | | | | | 56,700.00 |
| 50% supervision | .2.00 | Weeks | 1,000.00 | | | | | 20,700.00 |
| Health and Safety Manager - 10% of time allocated to the project | 42.00 | weeks | 352.50 | | | | | 14,805.00 |
| Quantity Surveyor - 50% of time allocated to the project | 42.00 | weeks | 1,522.50 | | | | | 63,945.00 |
| Access | | | | | | | | |
| Scaffolding - To external walls for superframe and crack repair works | 1,991.00 | m2 | 35.70 | | | | | 71,078.70 |
| Scaffolding - Weekly rental | 28.00 | weeks | 8,529.44 | | | | | 238,824.43 |
| Scaffold Towers to bleachers for reid brace install to levels 3 and 4, includes rental | 28.00 | no | 2,362.50 | | | | | 66,150.00 |
| Scaffold Protection to top of lift | 1.00 | no | 3,675.00 | | | | | 3,675.00 |
| Mobile Scaffolds - 12no | 42.00 | weeks | 1,134.00 | | | | | 47,628.00 |
| Consumables | | | | | | | | |
| PPE | 42.00 | weeks | 157.50 | | | | | 6,615.00 |
| Small Tools | 42.00 | weeks | 315.00 | | | | | 13,230.00 |
| Site Office Consumables | 42.00 | weeks | 157.50 | | | | | 6,615.00 |
| Cleaning | | | | | | | | .,. |
| Skips and Rubbish Removal | 42.00 | weeks | 1,365.00 | | | | | 57,330.00 |
| Builders Clean on Completion | 3,272.00 | m2 | 5.78 | | | | | 18,895.80 |
| Bunders Clean on Completion | 3,272.00 | 1112 | 3.78 | | | naries T | | 890,619.13 |

Mckay Lang Ltd Page: 17 of 20 Date of Printing: 15/Aug/22

Job Name: JOCKEY R3 34C Job Description

Client's Name: Kirk Roberts Consulting Riccarton Racecourse - Grand National Stand

| Item Description | Quantity | Unit | Material | Mark | Labour | Labour | Labour | Amount |
|---|----------|------|------------|------|----------|----------|---------|------------|
| | | | Rate | Up % | Factor | Qty | Rate | |
| | | | | | | | | |
| Trade: <u>Margin</u> | | | | | | | | |
| Main Contractor OH+P allowed at 6% of the | 1.00 | no | 598,556.70 | | | | | 598,556.70 |
| construction trade prices | | | | | | | | |
| | • | | • | | <u> </u> | Margin 1 | Total : | 598,556.70 |

Job Name: JOCKEY R3 34C Job Description

Client's Name: Kirk Roberts Consulting Riccarton Racecourse - Grand National Stand

| Item Description | Quantity | Unit | Material | Mark | Labour | Labour | Labour | Amount |
|---|----------|------|--------------|------|---------------|-----------------|--------|--------------|
| | | | Rate | Up % | Factor | Qty | Rate | |
| | | | | | | | | |
| Trade: <u>Contingency</u> | | | | | | | | |
| Project Contingency allowed at 15% of the | 1.00 | no | 1,496,391.75 | | | | | 1,496,391.75 |
| construction trade prices | | | | | | | | |
| | | | | | Contin | <u>igency</u> T | otal : | 1,496,391.75 |

Mckay Lang Ltd Page: 19 of 20 Date of Printing: 15/Aug/22

Job Name: JOCKEY R3 34C Job Description

Client's Name: Kirk Roberts Consulting Riccarton Racecourse - Grand National Stand

| Item Description | Quantity | Unit | Material Rate | Mark Up % | Labour Factor | Labour Qty | Labour Rate | Amount |
|---|----------|------|------------------|--------------|------------------|---------------|----------------|-----------|
| | | | Rate | СР /0 | Tactor | <u> </u> | Rate | |
| Trade: <u>Inflation</u> | | | | | | | | |
| | | | | | | | | |
| This estimate has been completed in 2022Q2 works are expected to commence in 2023Q2 | 1.00 | no | 774,546.42 | | | | | 774,546.4 |
| allow 6% cost increase | | | | | In | ıflation T | otal : | 774,546.4 |

Job Name :JOCKEY R3 67CJob Description

Client's Name: Kirk Roberts Consulting Riccarton Racecourse - Grand National Stand

| Trade Description | Trade | Cost/ m2 | | L a b o | u r | Material | Sub Total | Mark | Trade |
|------------------------------------|--------|----------|-----|---------|-------|------------|------------|------|---------------------|
| | % | | Qty | Rate | Total | Total | | Up % | Total |
| Grand National Stand - Riccarton | | | | | | | | | |
| Racecourse | | | | | | | | | |
| 67%NBS Budget Estimate | | | | | | | | | |
| Substructure | 6.14 | | | | | 964,106 | 964,106 | | 964,106 |
| Frame | 47.38 | | | | | 7,442,302 | 7,442,302 | | 7,442,302 |
| Upper Floors | 0.86 | | | | | 135,212 | 135,212 | | 135,212 |
| Structure Sub Total | | | | | | | | | <u>8,541,620.00</u> |
| External Walls | 4.16 | | | | | 653,645 | 653,645 | | 653,645 |
| External Fabric Subtotal | | | | | | | | | 653,645.00 |
| Stairs | 0.18 | | | | | 28,030 | 28,030 | | 28,030 |
| Internal Walls, Partitions | 1.44 | | | | | 225,400 | 225,400 | | 225,400 |
| Floor Finishes | 3.17 | | | | | 497,794 | 497,794 | | 497,794 |
| Wall Finishes | 0.73 | | | | | 114,520 | 114,520 | | 114,520 |
| Ceiling Finishes | 1.82 | | | | | 285,900 | 285,900 | | 285,900 |
| Fittings and Fixtures | 0.61 | | | | | 96,470 | 96,470 | | 96,470 |
| Internal Finishing Subtotal | | | | | | | | | 1,248,114.00 |
| Plumbing and Drainage Services | 0.61 | | | | | 96,390 | 96,390 | | 96,390 |
| Fire Services | 1.06 | | | | | 166,560 | 166,560 | | 166,560 |
| Electrical and Data Services | 0.90 | | | | | 141,300 | 141,300 | | 141,300 |
| Lifts & Escalator | 0.25 | | | | | 39,440 | 39,440 | | 39,440 |
| Services Subtotal | | | | | | | | | 443,690.00 |
| External Works | 2.24 | | | | | 351,693 | 351,693 | | 351,693 |
| External Works & Sundries Subtotal | | | | | | | | | <u>351,693.00</u> |
| Preliminaries | 5.67 | | | | | 890,620 | 890,620 | | 890,620 |
| Margin | 4.89 | | | | | 768,224 | 768,224 | | 768,224 |
| Contingency | 12.23 | | | | | 1,920,558 | 1,920,558 | | 1,920,558 |
| Prelims, Contingency Subtotal | | | | | | | | | 3,579,402.00 |
| Inflation | 5.66 | | | | | 889,090 | 889,090 | | 889,090 |
| Total Construction Cost | | | | | | | | | 15,707,254.00 |
| | 100.00 | 1 | | 60 | | 15.707.254 | 15.707.254 | | 15.707.254 |

100.00 60 15,707,254 15,707,254 15,707,254

Final Total \$ 15,707,254

G.S.T. 15.00%: 2,356,088 Final Total Incl. G.S.T.: \$ 18,063,342

Mckay Lang Ltd Page: 1 of 1 Date of Printing: 17/Aug/22

Job Name: <u>JOCKEY R3 67C</u> <u>Job Description</u>

Client's Name: Kirk Roberts Consulting Riccarton Racecourse - Grand National Stand

| Item Description | Quantity | Unit | Material Rate | Mark Up % | Labour Factor | Labour Qty | Labour Rate | Amount |
|---|-----------|------|------------------|--------------|------------------|---------------|----------------|------------|
| | | | | | | | | |
| Trade: Substructure | | | | | | | | |
| Level 0 - New Ground Beams | | | | | | | | |
| | | | | | | | | |
| Sawcut, breakout and dispose concrete slab internally, working carefully around existing columns | 675.00 | m2 | 85.00 | | | | | 57,375.00 |
| Sawcut, breakout and dispose concrete slab externally, working carefully around existing panels and columns | 23.00 | m2 | 85.00 | | | | | 1,955.00 |
| Carefully cut sections of external columns and scabble | 1.00 | no | 1,105.00 | | | | | 1,105.00 |
| Hand excavate and dispose off site from above areas | 608.00 | m3 | 225.00 | | | | | 136,800.00 |
| Backfill with suitable fill and compact ready for concrete | 31.00 | m3 | 270.00 | | | | | 8,370.00 |
| Place and brace formwork | 562.00 | m2 | 65.00 | | | | | 36,530.00 |
| Drill and epoxy bar through column foundation (reinforcing measured elsewhere) | 18.00 | no | 34.50 | | | | | 621.00 |
| Drill and epoxy starters into existing foundation beam (reinforcing measured elsewhere) | 1,900.00 | no | 34.50 | | | | | 65,550.00 |
| Supply and place reinforcing | 54,720.00 | kg | 5.75 | | | | | 314,640.00 |
| Supply and place 30MPa pump mix concrete to ground beams, back up to slab level. Finish to a F5 finish | 608.00 | m3 | 435.00 | | | | | 264,480.00 |
| Existing Stairs and Ramps | | | | | | | | |
| | | | | | | | | |
| Excavate and dispose off site from above areas | 80.00 | m3 | 225.00 | | | | | 18,000.00 |
| Backfill with suitable fill and compact ready for concrete | 48.00 | m3 | 270.00 | | | | | 12,960.00 |
| Supply and place reinforcing | 4,320.00 | kg | 5.75 | | | | | 24,840.00 |
| Supply and place 30MPa pump mix concrete to ground beams, back up to slab level. Finish to a F5 finish | 48.00 | m3 | 435.00 | | | | | 20,880.00 |
| | | | | | Substr | ucture T | otal : | 964,106.00 |

Job Name: <u>JOCKEY R3 67C</u> <u>Job Description</u>

Client's Name: Kirk Roberts Consulting Riccarton Racecourse - Grand National Stand

| Item Description | Quantity | Unit | Material Rate | Mark Up % | Labour Factor | Labour Qty | Labour Rate | Amount |
|--|------------|------|------------------|--------------|------------------|---------------|----------------|--------------|
| | | | | | | | | |
| Trade: <u>Frame</u> | | Г | | | | | | |
| | | | | | | | | |
| Levels 1 - 4 - New Super Columns and | | | | | | | | |
| Beams - Assumed Poured in Five Lifts | | | | | | | | |
| Scabble the edges of each column to be | 1,482.00 | m | 40.00 | | | | | 59,280.00 |
| poured against | 1,102.00 | | 10.00 | | | | | 37,200.00 |
| Reo Scan, drill columns ready for post | 1,326.00 | no | 56.00 | | | | | 74,256.00 |
| tensioned bars | | | | | | | | |
| Supply and place reinforcing | 238,006.00 | kg | 5.75 | | | | | 1,368,534.50 |
| Supply and place Macalloy Post Tensioned | 2,340.00 | no | 570.00 | | | | | 1,333,800.00 |
| system | 2,5 10100 | | 270.00 | | | | | |
| Supply, place, strike and move formwork. | 4,803.00 | m2 | 215.00 | | | | | 1,032,645.00 |
| Assumed two sets of formwork, struck after | , | | | | | | | ,, |
| three days and relocated to floor above | | | | | | | | |
| Supply, place, strike formwork to form nib to | 207.00 | m2 | 215.00 | | | | | 44,505.00 |
| cover post tensioning. Assumed two sets of formwork, struck after three days and | | | | | | | | |
| relocated to floor above | | | | | | | | |
| relocated to floor above | | | | | | | | |
| Supply and place 30MPa pump mix concrete | 1,174.00 | m3 | 550.00 | | | | | 645,700.00 |
| to columns and beams. Finish to a F5 finish | | | | | | | | |
| Supply and place 30MPa pump mix concrete | 14.00 | m3 | 550.00 | | | | | 7,700.00 |
| to form nib to cover post tensioning. Finish to | | | | | | | | |
| a F5 finish PEV 2. New Bloocher Support Frames and | | | | | | | | |
| REV 2 - New Bleacher Support Frames and Additional Main Build Floor Support | | | | | | | | |
| Beams | | | | | | | | |
| | | | | | | | | |
| Scabble the edges of each column to be poured against | 257.00 | m | 40.00 | | | | | 10,280.00 |
| Reo Scan, drill columns ready for post | 232.50 | no | 56.00 | | | | | 13,020.00 |
| tensioned bars | | | | | | | | |
| Supply and place reinforcing | 19,758.75 | kg | 5.75 | | | | | 113,612.81 |
| Supply and place Macalloy Post Tensioned | 232.50 | no | 570.00 | | | | | 132,525.00 |
| system System | 232.30 | | 370.00 | | | | | 132,323.00 |
| Supply, place, strike and move formwork. | 461.70 | m2 | 215.00 | | | | | 99,265.50 |
| Assumed two sets of formwork, struck after | 401.70 | 1112 | 213.00 | | | | | 77,203.30 |
| three days and relocated to floor above | | | | | | | | |
| Supply, place, strike formwork to form nib to | 283.00 | m2 | 215.00 | | | | | 60,845.00 |
| cover post tensioning. Assumed two sets of | | | | | | | | - |
| formwork, struck after three days and | | | | | | | | |
| relocated to floor above | | | | | | | | |

Mckay Lang Ltd Page: 2 of 20 Date of Printing: 17/Aug/22

Job Name: <u>JOCKEY R3 67C</u> <u>Job Description</u>

Client's Name: Kirk Roberts Consulting Riccarton Racecourse - Grand National Stand

| Item Description | Quantity | Unit | Material Rate | Mark Up % | Labour Factor | Labour Qty | Labour Rate | Amount |
|--|------------|-------|------------------|--------------|------------------|---------------|----------------|---|
| Trade: Frame | | | | | | | | (Continued) |
| Supply and place 30MPa pump mix concrete to columns and beams. Finish to a F5 finish | 97.50 | m3 | 550.00 | | | | | 53,625.00 |
| Supply and place 30MPa pump mix concrete | 28.50 | m3 | 550.00 | | | | | 15,675.00 |
| to form nib to cover post tensioning. Finish to | 20.50 | III.S | 250.00 | | | | | 13,073.00 |
| a F5 finish | | | | | | | | |
| | | | | | | | | |
| Reid Bracing to Bleachers | | | | | | | | |
| | | | | | | | | |
| Supply and install RB32 reid bracing as | 4.00 | no | 36,942.00 | | | | | 147,768.00 |
| detailed internally. Assumed fixed to concrete | | | | | | | | |
| with 12mm plate fabricated brackets Supply and install RB32 reid bracing as | 2.00 | | 37,110.00 | | | | | 74,220.00 |
| detailed externally. Assumed fixed to steel | 2.00 | no | 37,110.00 | | | | | 74,220.00 |
| with 12mm plate fabricated brackets | | | | | | | | |
| Supply and install RB32 reid bracing as | 6.00 | no | 10,970.00 | | | | | 65,820.00 |
| detailed to roof space above floors. Assumed | | | 20,21000 | | | | | 00,020.00 |
| fixed to steel with 12mm plate fabricated | | | | | | | | |
| brackets | | | | | | | | |
| X 10, C1 . 0. | | | | | | | | |
| Lift Shaft | | | | | | | | |
| Break out pocket in wall for drag bars | 4.00 | no | 530.00 | | | | | 2,120.00 |
| Supply and install drag bars | 16.00 | no | 1,440.00 | | | | | 23,040.00 |
| Supply and install carbon fibre strips | 4.00 | no | 1,260.00 | | | | | 5,040.00 |
| | | | | | | | | |
| General Concrete Repairs | | | | | | | | |
| Allow to repair spalling to existing concrete | 25.00 | no | 395.00 | | | | | 9,875.00 |
| frames as works progress | 25.00 | | 3,2.00 | | | | | ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, |
| Allow for low pressure epoxy injection to | 350.00 | m | 185.00 | | | | | 64,750.00 |
| cracks, finished ready for decoration | | | | | | | | |
| Existing Stairs and Ramps | | | | | | | | |
| Demolish existing damaged precast concrete | 1.00 | no | 75,000.00 | | | | | 75,000.00 |
| and ramps and stairs | 1.50 | | . 5,000.00 | | | | | |
| Engineer design formwork and propping | 1.00 | no | 375,000.00 | | | | | 375,000.00 |
| solution for new insitu steps and ramps | | | , | | | | | , |
| Supply and place reinforcing | 109,440.00 | kg | 7.50 | | | | | 820,800.00 |
| Supply and place 30MPa pump mix concrete to columns, beams, and deck | 912.00 | m3 | 550.00 | | | | | 501,600.00 |
| Connections to existing building | 4.00 | no | 12,500.00 | | | | | 50,000.00 |
| Galvanised steel handrails | 240.00 | m | 675.00 | | | | | 162,000.00 |
| | | 1 | | 1 | | Frame T | otal : | 7,442,301.81 |

Mckay Lang Ltd Page: 3 of 20 Date of Printing: 17/Aug/22

Job Name: <u>JOCKEY R3 67C</u> <u>Job Description</u>

Client's Name: Kirk Roberts Consulting Riccarton Racecourse - Grand National Stand

| Item Description | Quantity | Unit | Material | Mark | Labour | Labour | Labour | Amount |
|---|----------|------|----------|------|--------------|----------|--------|------------|
| | | | Rate | Up % | Factor | Qty | Rate | |
| | | | | | | | | |
| Trade: <u>Upper Floors</u> | | | | Т Т | | | | |
| | | | | | | | | |
| Levels 1 - 4 - Generally | | | | | | | | |
| | | | | | | | | |
| Supply and install temporary props for the | 264.00 | no | 360.00 | | | | | 95,040.00 |
| duration of the works; props placed slab to | | | | | | | | |
| slab | | | | | | | | |
| Supply and install temporary barriers to edges | 579.00 | m | 18.00 | | | | | 10,422.00 |
| of open excavations on floors | | | | | | | | |
| | | | | | | | | |
| General Concrete Repairs | | | | | | | | |
| | | | | | | | | |
| Allow for gravity placed epoxy mortar repairs | 350.00 | m | 85.00 | | | | | 29,750.00 |
| to floor slab, includes for V grooving slab and | | | | | | | | |
| finishing ready for carpet | | | | | | | | |
| | | | | | <u>Upper</u> | Floors T | otal : | 135,212.00 |

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Job Name: <u>JOCKEY R3 67C</u> <u>Job Description</u>

Client's Name: Kirk Roberts Consulting Riccarton Racecourse - Grand National Stand

| Item Description | Quantity | Unit | Material | Mark | Labour | Labour | Labour | Amount |
|---|----------|------|----------|------|----------|---------|--------|------------|
| | | | Rate | Up % | Factor | Qty | Rate | |
| | | | | | | | | |
| Trade: External Walls | | T | | 1 1 | | | | |
| | | | | | | | | |
| Saw Cuts to Spandrel Panels | | | | | | | | |
| | | | | | | | | |
| Saw cut and break out 100mm of wall panels | 68.00 | m | 55.00 | | | | | 3,740.00 |
| Install slip brackets and install flexible weatherproof sealant | 120.00 | no | 395.00 | | | | | 47,400.00 |
| Compliance Upgrades | | | | | | | | |
| Allow to remove existing door and replace with door and half doorset on hold opens to | 1.00 | no | 5,750.00 | | | | | 5,750.00 |
| the Ground Floor entry doors | | | | | | | | |
| Add manifestations to entry doors | 2.00 | no | 650.00 | | | | | 1,300.00 |
| Add hold opens to the doors at the top of Stair 2 A&B | 2.00 | no | 1,850.00 | | | | | 3,700.00 |
| ZACD | | | | | | | | |
| General Concrete Repairs | | | | | | | | |
| Allow to repair spalling to existing concrete | 50.00 | no | 395.00 | | | | | 19,750.00 |
| frames as works progress | | | | | | | | |
| Allow for low pressure epoxy injection to cracks, finished ready for decoration | 2,500.00 | m | 185.00 | | | | | 462,500.00 |
| Allow to paint all walls following crack repair | 1,991.00 | m2 | 55.00 | | | | | 109,505.00 |
| | 1 | | | 1 | External | Walls T | otal : | 653,645.00 |

Mckay Lang Ltd Page: 5 of 20 Date of Printing: 17/Aug/22

Job Name: JOCKEY R3 67C Job Description

Client's Name: Kirk Roberts Consulting Riccarton Racecourse - Grand National Stand

| Item Description | Quantity | Unit | Material Rate | Mark Up % | Labour Factor | Labour Qty | Labour Rate | Amount |
|--|----------|------|------------------|--------------|------------------|-----------------|----------------|-----------|
| | | | | | | | | |
| | | | | | | | | |
| Compliance Upgrades | | | | | | | | |
| | | | | | | | | |
| Provide colour contrast and tactile indicators | 13.00 | no | 1,560.00 | | | | | 20,280.00 |
| to all stairs | | | | | | | | |
| Supply and install new handrails to stair 1 | 1.00 | no | 540.00 | | | | | 540.00 |
| Upgrade handrails to Stiars 4, 5, 6, 7, 9 | 1.00 | no | 3,940.00 | | | | | 3,940.00 |
| Close in open risers to Stair 4 | 1.00 | no | 2,040.00 | | | | | 2,040.00 |
| Ramps 1 and 2 upgrade handrails | 1.00 | | 1,230.00 | | | | | 1,230.00 |
| Kamps 1 and 2 upgrade nandrans | 1.00 | no | 1,230.00 | | | <u> </u> | | |
| | | | | | | Stairs T | otal : | 28,030.00 |

Mckay Lang Ltd Page: 6 of 20 Date of Printing: 17/Aug/22

Job Name: JOCKEY R3 67C Job Description

Client's Name: Kirk Roberts Consulting Riccarton Racecourse - Grand National Stand

| Item Description | Quantity | Unit | Material Rate | Mark Up % | Labour Factor | Labour Qty | Labour | Amount |
|---|----------|------|------------------|--------------|------------------|---------------|--------|------------|
| | | | | | | | Rate | |
| | | | | | | | | |
| Trade: <u>Internal Walls, Partitions</u> | | | | | | | | |
| | | | | | | | | |
| All Levels | | | | | | | | |
| | | | | | | | | |
| Allow to remove and dispose of internal | 805.00 | m2 | 85.00 | | | | | 68,425.00 |
| partitons as requried to complete the works | | | | | | | | |
| Allow to reinstate timber framed plasterboard | 805.00 | m2 | 195.00 | | | | | 156,975.00 |
| walls removed previously | | | | | | | | |
| | | • | I | nternal ' | Walls, Par | titions T | otal : | 225,400.00 |

Mckay Lang Ltd Page: 7 of 20 Date of Printing: 17/Aug/22

Job Name: JOCKEY R3 67C Job Description

Client's Name: Kirk Roberts Consulting Riccarton Racecourse - Grand National Stand

| Item Description | Quantity | Unit | Material | Mark | Labour | Labour | Labour | Amount |
|---|----------|------|----------|------|---------|------------------|--------|------------|
| | | | Rate | Up % | Factor | Qty | Rate | |
| 71 71 1 | | | | | | | | |
| Trade: Floor Finishes | | T | | T T | | | | |
| | | | | | | | | |
| All Levels | | | | | | | | |
| | | | | | | | | |
| Uplift and dispose all floor coverings | 3,272.00 | m2 | 56.00 | | | | | 183,232.00 |
| throughout to allow for demolition | | | | | | | | |
| | | | | | | | | |
| Grind floors and lay new carpet tiles | 3,272.00 | m2 | 85.00 | | | | | 278,120.00 |
| Extra value for vinyl to toilet and kitchen | 654.40 | m2 | 55.00 | | | | | 35,992.00 |
| areas | | | | | | | | |
| | | | | | | | | |
| Complinace Upgrades | | | | | | | | |
| | | | | | | | | |
| Extra value to ramp up to one side of entry | 1.00 | no | 450.00 | | | T | | 450.00 |
| door to Level 2 main bar entry | | | | | | | | |
| | | | | | Floor F | <u>inishes</u> T | otal : | 497,794.00 |

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Job Name: JOCKEY R3 67C

Client's Name: Kirk Roberts Consulting

Riccarton Racecourse - Grand National Stand

| Item Description | Quantity | Unit | Material Rate | Mark Up % | Labour Factor | Labour Qty | Labour Rate | Amount |
|---|----------|------|------------------|--------------|------------------|---------------|----------------|------------|
| Trade: <u>Wall Finishes</u> | | | | | | | | |
| | | | | | | | | |
| All Levels | | | | | | | | |
| Allow to paint all walls and partitions | 3,272.00 | m2 | 35.00 | | | | | 114,520.00 |
| | | | | | Wall F | inishes T | otal: | 114,520.00 |

Job Name: JOCKEY R3 67C Job Description

Client's Name: Kirk Roberts Consulting Riccarton Racecourse - Grand National Stand

| Item Description | Quantity | Unit | Material | Mark | Labour | Labour | Labour | Amount |
|--|----------|------|----------|------|-----------|-----------------|--------|------------|
| | | | Rate | Up % | Factor | Qty | Rate | |
| Trade: Ceiling Finishes | | | | | | | | |
| All Levels | | | | | | | | |
| Allow to remove and dispose existing ceiling linings to allow concrete works | 894.00 | m2 | 45.00 | | | | | 40,230.00 |
| Allow to frame out and reinstate ceilings, | 894.00 | m2 | 165.00 | | | | | 147,510.00 |
| finished ready for painting Allow to paint all ceilings throughout level | 3,272.00 | m2 | 30.00 | | | | | 98,160.00 |
| | | | | | Ceiling F | <u>nishes</u> T | otal: | 285,900.00 |

Job Name: JOCKEY R3 67C Job Description

Client's Name: Kirk Roberts Consulting Riccarton Racecourse - Grand National Stand

| Item Description | Quantity | Unit | Material Rate | Mark Up % | Labour Factor | Labour Qty | Labour Rate | Amount |
|---|----------|------|------------------|--------------|------------------|---------------|----------------|-----------|
| Trade: <u>Fittings and Fixtures</u> | | | | | | | | |
| | | | | | | | | |
| All Levels | | | | | | | | |
| Allow to remove and store fixtures and fittings from all floors, reinstate on completion of the works | 4.00 | no | 19,500.00 | | | | | 78,000.00 |
| | | | | | | | | |
| Complinace Upgrades | | | | | | | | |
| Add accessible counters to all existing counters | 7.00 | no | 1,610.00 | | | | | 11,270.00 |
| Adjust bleacher seating to provide wheelchair spaces | 1.00 | no | 2,700.00 | | | | | 2,700.00 |
| Upgrade building accessible signage | 1.00 | no | 4,500.00 | | | | | 4,500.00 |
| | <u>'</u> | • | <u>'</u> | <u>Fitti</u> | ngs and Fi | xtures T | otal : | 96,470.00 |

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Job Name: JOCKEY R3 67C Job Description

Client's Name: Kirk Roberts Consulting Riccarton Racecourse - Grand National Stand

| Item Description | Quantity | Unit | Material | Mark | Labour | Labour | Labour | Amount |
|---|----------|------|-----------|----------|------------|----------|--------|-----------|
| | | | Rate | Up % | Factor | Qty | Rate | |
| Trade: Plumbing and Drainage Services | | | | | | | | |
| | | | | | | | | |
| All Levels | | | | | | | | |
| | | | | | | | | |
| Allow to remove and dispose existing fittings to allow installation of super columnns | 9.00 | no | 450.00 | | | | | 4,050.00 |
| Allow to alter pipework and install new compliant bathrooms | 9.00 | no | 10,260.00 | | | | | 92,340.00 |
| | " | • | Plumbin | ng and D | rainage Se | rvices T | otal : | 96,390.00 |

Job Name: JOCKEY R3 67C Job Description

Client's Name: Kirk Roberts Consulting Riccarton Racecourse - Grand National Stand

| Item Description | Quantity | Unit | Material | Mark | Labour | Labour | Labour | Amount |
|--|----------|--------------|----------|------|--------|-----------|--------|------------|
| | | Rate Up % Fa | Factor | Qty | Rate | | | |
| Trade: <u>Fire Services</u> | | | | | | | | |
| All Levels | | | | | | | | |
| | | | | | | | | |
| Allow for isolations as required to complete the works, ensuring building is protected when site is closed | 36.00 | weeks | 1,900.00 | | | | | 68,400.00 |
| Allow to complete an upgrade to assumed a Type 4 system with all cable run in conduit | 3,272.00 | m2 | 30.00 | | | | | 98,160.00 |
| | <u>'</u> | | | | Fire S | ervices T | otal : | 166,560.00 |

Job Name: JOCKEY R3 67C Job Description

Client's Name: Kirk Roberts Consulting Riccarton Racecourse - Grand National Stand

| Item Description | Quantity | Unit | Material Rate | Mark Up % | Labour Factor | Labour Qty | Labour Rate | Amount |
|---|----------|-------|---|--------------|------------------|---------------|----------------|------------|
| Trade: Electrical and Data Services | | | | | | | | |
| | | | | | | | | |
| All Levels | | | | | | | | |
| | | | | | | | | |
| Toilets | | | | | | | | |
| | | | | | | | | |
| Allow to remove and dispose existing fittings | 9.00 | no | 450.00 | | | | | 4,050.00 |
| to allow installation of super columnns | | | | | | | | |
| Allow to alter cabling and install new fittings | 9.00 | no | 5,500.00 | | | | | 49,500.00 |
| Public Areas | | | | | | | | |
| General disconnections and alterations to | 36.00 | weeks | 1,875.00 | | | | | 67,500.00 |
| public areas to allow installation of super columns | | | ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | | | | | , |
| Extra value for replacement fittings not | 1.00 | no | 20,250.00 | | | | | 20,250.00 |
| suitable for reuse | 1.00 | no no | 20,230.00 | | | | | 20,230.00 |
| | | | Ele | ctrical a | nd Data Se | ervices T | otal : | 141,300.00 |

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Job Name: JOCKEY R3 67C Job Description

Client's Name: Kirk Roberts Consulting Riccarton Racecourse - Grand National Stand

| Item Description | Quantity | Unit | Material Rate | Mark Up % | Labour Factor | Labour Qty | Labour Rate | Amount |
|--|----------|------|------------------|--------------|------------------|---------------|----------------|-----------|
| Trade: <u>Lifts & Escalator</u> | | | | | | | | |
| | | | | | | | | |
| Generally | | | | | | | | |
| Allow for a lift engineer to attend site and | 4.00 | no | 1,110.00 | | | | | 4,440.00 |
| move lift as requried for liftshaft strengthening works | | | | | | | | |
| | | | | | | | | |
| Upgrade internal lift car to comply with current code | 1.00 | no | 35,000.00 | | | | | 35,000.00 |
| | 1 | | | | Lifts & Eso | calator T | otal : | 39,440.00 |

Job Name: JOCKEY R3 67C Job Description

Client's Name: Kirk Roberts Consulting Riccarton Racecourse - Grand National Stand

| Item Description | Quantity | Unit | Material Rate | Mark Up % | Labour Factor | Labour Qty | Labour Rate | Amount |
|--|-----------|------|------------------|--------------|------------------|---------------|----------------|------------|
| Trade: <u>External Works</u> | | | | | | | | |
| | | | | | | | | |
| Generally | | | | | | | | |
| Allow to reinsate tarmac to outside of building line where new ground beams placed | 1.00 | no | 4,500.00 | | | | | 4,500.00 |
| Allow to install additional accessible car parks as required | 1.00 | no | 1,250.00 | | | | | 1,250.00 |
| Allow to remove existing asphalt and increase area to provide compliant gradient | 2.00 | no | 3,750.00 | | | | | 7,500.00 |
| Retaining Wall to Front of Stand | | | | | | | | |
| Allow to remove external landscaping for wall replacement | 1.00 | no | 7,500.00 | | | | | 7,500.00 |
| Allow to breakout and remove existing wall, foundation and apron to allow replacement of wall | 90.00 | m | 225.00 | | | | | 20,250.00 |
| Allow to shape ground to receive new cantilevered foundation | 90.00 | m | 35.00 | | | | | 3,150.00 |
| Backfill with suitable fill and compact ready for concrete | 108.00 | m3 | 270.00 | | | | | 29,160.00 |
| Place and brace formwork | 513.00 | m2 | 65.00 | | | | | 33,345.00 |
| Supply and place reinforcing | 19,375.00 | kg | 7.50 | | | | | 145,312.50 |
| Supply and place 30MPa pump mix concrete to ground beams, back up to slab level. Finish to a F5 finish | 155.00 | m3 | 435.00 | | | | | 67,425.00 |
| Paint wall | 360.00 | m2 | 55.00 | | | | | 19,800.00 |
| Reinstate landscaping | 1.00 | no | 12,500.00 | | | | | 12,500.00 |
| | | 1 | 1 | | External | Works T | otal: | 351,692.50 |

Job Name: JOCKEY R3 67C Job Description

Client's Name: Kirk Roberts Consulting Riccarton Racecourse - Grand National Stand

| Item Description | Quantity | Unit | Material Rate | Mark Up % | Labour Factor | Labour Qty | Labour Rate | Amount |
|--|----------|-------|------------------|--------------|------------------|---------------|----------------|------------|
| Trade: Preliminaries | | | | | | | | |
| Trade: <u>Preliminaries</u> | | | | | | | | |
| Site Establishement | | | | | | | | |
| Site Container Hire - Ino | 42.00 | weeks | 52.50 | | | | | 2,205.00 |
| Site Container Establishment and Removal | 1.00 | | 630.00 | | | | | 630.00 |
| Site Office Hire - Ino | 42.00 | no | | | | | | |
| | | weeks | 183.75 | | | | | 7,717.50 |
| Site Office Establishment and Removal | 1.00 | no | 630.00 | | | | | 630.00 |
| Site Lunch Room - 2no | 42.00 | weeks | 472.50 | | | | | 19,845.00 |
| Site Lunch Room Establishment and Removal | 1.00 | no | 630.00 | | | | | 630.00 |
| Site Toilet Block - 3no | 42.00 | weeks | 236.25 | | | | | 9,922.50 |
| Site Lunch Room Establishment and Removal | 1.00 | no | 630.00 | | | | | 630.00 |
| Site Fencing | 42.00 | weeks | 831.60 | | | | | 34,927.20 |
| Site Fencing Establishment, Maintenance and Removal | 1.00 | no | 6,240.00 | | | | | 6,240.00 |
| Site Supervision | | | | | | | | |
| Project Manager - 100% supervision | 42.00 | weeks | 3,375.00 | | | | | 141,750.00 |
| Working Site Foreman - 4no - 50% working, | 42.00 | weeks | 1,350.00 | | | | | 56,700.00 |
| 50% supervision | .2.00 | Weeks | 1,000.00 | | | | | 20,700.00 |
| Health and Safety Manager - 10% of time allocated to the project | 42.00 | weeks | 352.50 | | | | | 14,805.00 |
| Quantity Surveyor - 50% of time allocated to the project | 42.00 | weeks | 1,522.50 | | | | | 63,945.00 |
| Access | | | | | | | | |
| Scaffolding - To external walls for superframe and crack repair works | 1,991.00 | m2 | 35.70 | | | | | 71,078.70 |
| Scaffolding - Weekly rental | 28.00 | weeks | 8,529.44 | | | | | 238,824.43 |
| Scaffold Towers to bleachers for reid brace install to levels 3 and 4, includes rental | 28.00 | no | 2,362.50 | | | | | 66,150.00 |
| Scaffold Protection to top of lift | 1.00 | no | 3,675.00 | | | | | 3,675.00 |
| Mobile Scaffolds - 12no | 42.00 | weeks | 1,134.00 | | | | | 47,628.00 |
| Consumables | | | | | | | | |
| PPE | 42.00 | weeks | 157.50 | | | | | 6,615.00 |
| Small Tools | 42.00 | weeks | 315.00 | | | | | 13,230.00 |
| Site Office Consumables | 42.00 | weeks | 157.50 | | | | | 6,615.00 |
| Cleaning | | | | | | | | .,. |
| Skips and Rubbish Removal | 42.00 | weeks | 1,365.00 | | | | | 57,330.00 |
| Builders Clean on Completion | 3,272.00 | m2 | 5.78 | | | | | 18,895.80 |
| Bunders Clean on Completion | 3,272.00 | 1112 | 3.78 | | | naries T | | 890,619.13 |

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Job Name: JOCKEY R3 67C Job Description

Client's Name: Kirk Roberts Consulting Riccarton Racecourse - Grand National Stand

| Item Description | Quantity | Unit | Material Rate | Mark Up % | Labour Factor | Labour Qty | Labour Rate | Amount |
|---|----------|------|------------------|--------------|------------------|---------------|----------------|------------|
| Trade: <u>Margin</u> | | | | | | | | |
| Main Contractor OH+P allowed at 6% of the construction trade prices | 1.00 | no | 768,223.08 | | | | | 768,223.08 |
| | , | | | | • | Margin [| Fotal : | 768,223.08 |

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Job Name: JOCKEY R3 67C Job Description

Client's Name: Kirk Roberts Consulting Riccarton Racecourse - Grand National Stand

| Item Description | Quantity | Unit | Material Rate | Mark Up % | Labour Factor | Labour Qty | Labour Rate | Amount |
|---|----------|------|------------------|--------------|------------------|---------------|----------------|--------------|
| Trade: Contingency | | | | | | | | |
| Project Contingency allowed at 15% of the construction trade prices | 1.00 | no | 1,920,557.70 | | | | | 1,920,557.70 |
| | | | | | Conti | ngency T | otal: | 1,920,557.70 |

Mckay Lang Ltd Page: 19 of 20 Date of Printing: 17/Aug/22

Job Name: JOCKEY R3 67C Job Description

Client's Name: Kirk Roberts Consulting Riccarton Racecourse - Grand National Stand

| Item Description | Quantity | Unit | Material Rate | Mark Up % | Labour Factor | Labour Qty | Labour Rate | Amount |
|---|----------|------|------------------|--------------|------------------|---------------|----------------|------------|
| | | | Rate | СР /0 | ractor | 20 | Rate | |
| Trade: <u>Inflation</u> | | | | | | | | |
| | | | | | | | | |
| This estimate has been completed in 2021Q2 works are expected to commence in 2023Q2 | 1.00 | no | 889,089.84 | | | | | 889,089.84 |
| allow 6% cost increase | | | | | <u>In</u> | flation T | Cotal : | 889,089.84 |