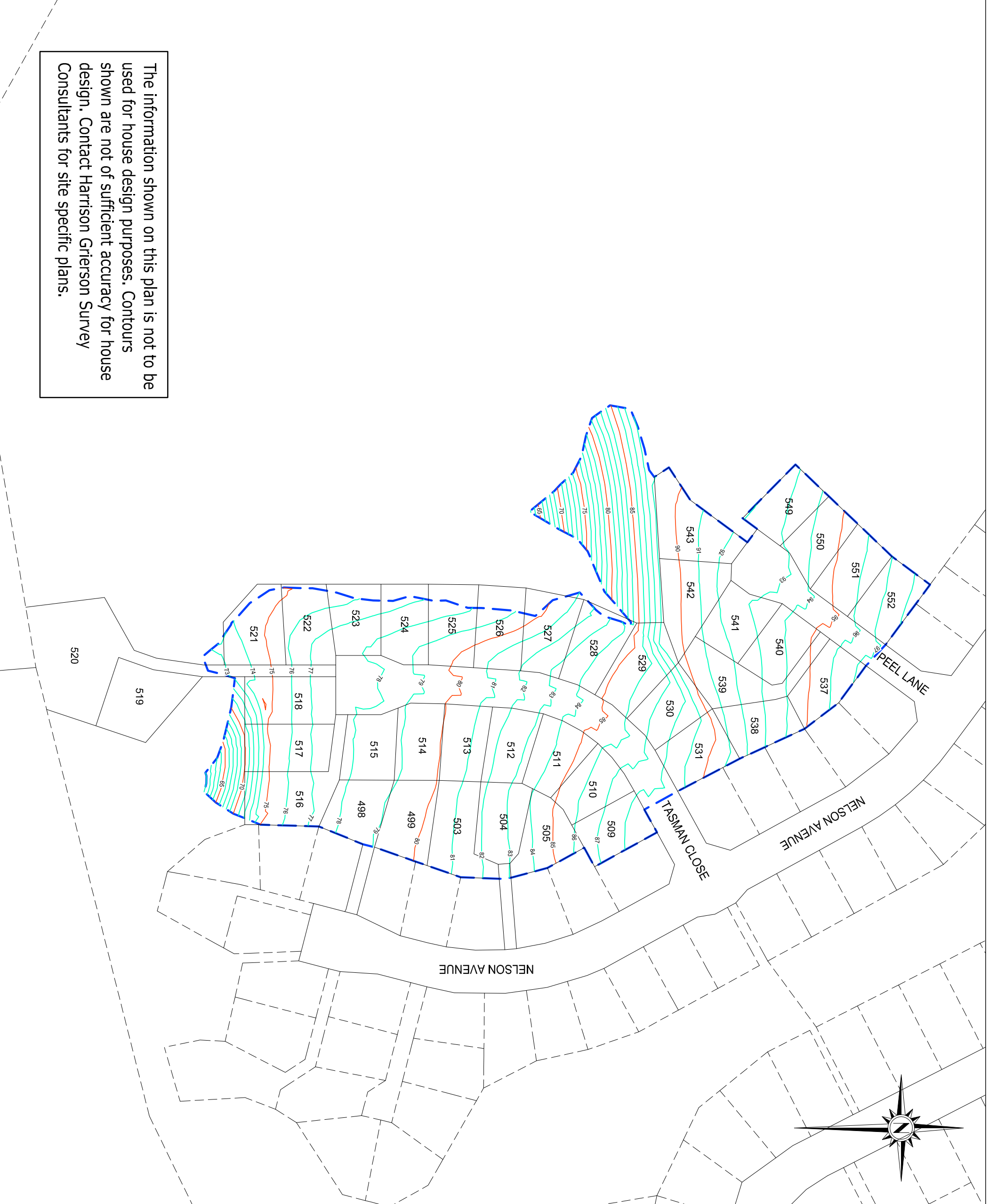
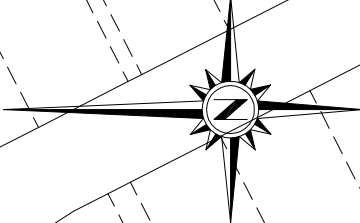




- NOTES:
1. Contours are shown at 1m intervals.
 2. Topsoil of approximately 150mm to 200mm has been laid on all lots.

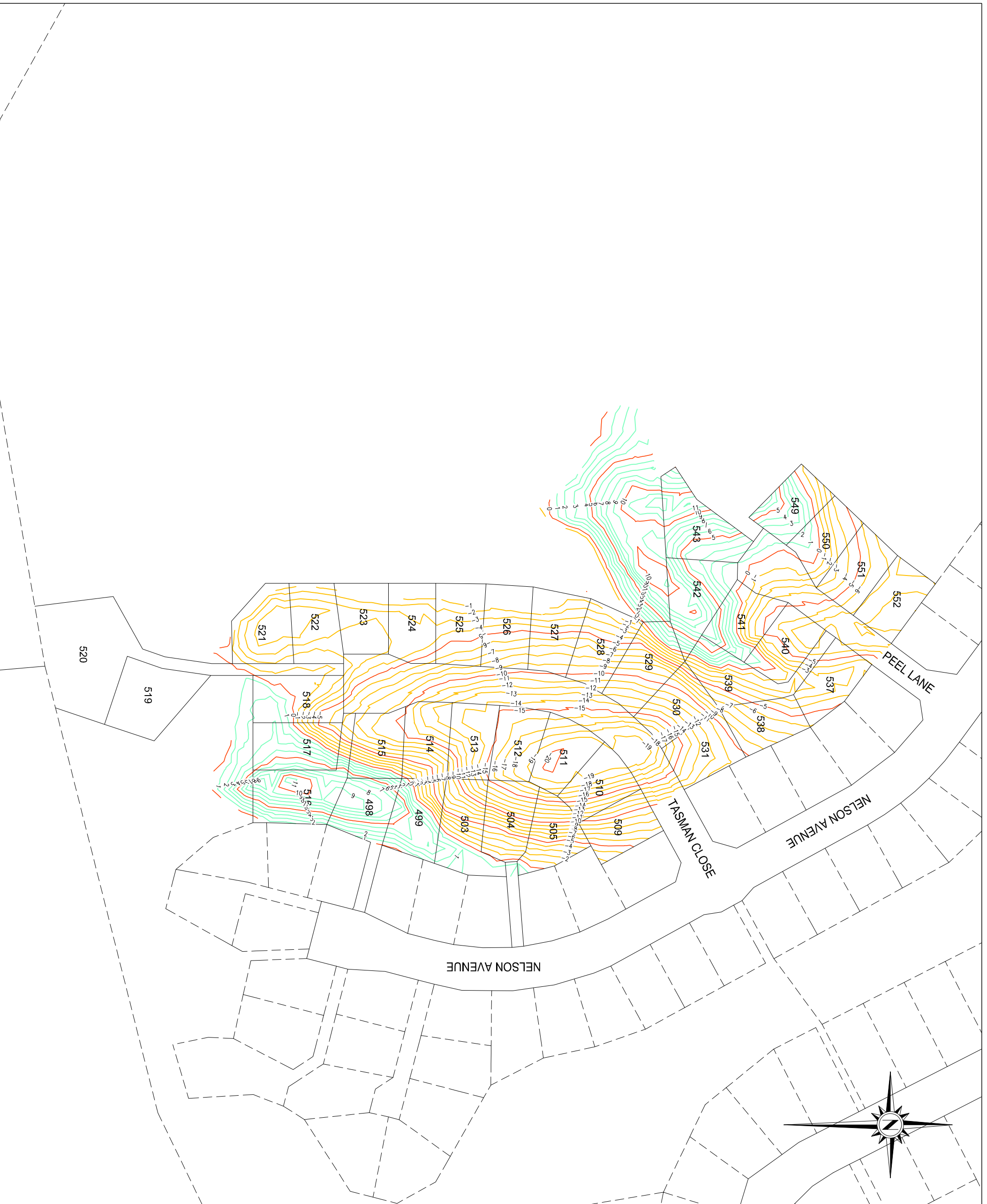
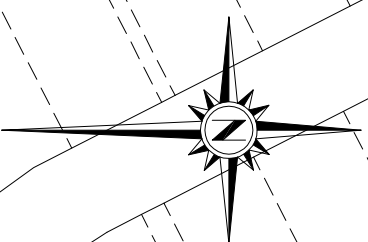


The information shown on this plan is not to be used for house design purposes. Contours shown are not of sufficient accuracy for house design. Contact Harrison Grierson Survey Consultants for site specific plans.

| | |
|--|--|
| HARRISON GRIERSON CONSULTING ENGINEERS SURVEYORS PLANNERS Level 16 Grand Alliance Tower 246 Glendon Terrace Wellington Ph: 04 385 0035 Fax: 04 385 0065 | |
| PROJECT: | CARRUS LIMITED AOTEA BLOCK - PORIRUA STAGE 5C & 5D |
| TITLE: | ASBUILT SUBGRADE CONTOURS |
| DESIGNED: | DATE: 30-07-2007 |
| DRAWN: | DATE: 07-2007 |
| CHECKED: | DATE: 07-2007 |
| APPROVED: | DATE: 07-2007 |
| PROJECT NO: | 1850-000633-01 |
| DRAWING NO: | 000633-5CD-AB200 |
| SCALE: | 1:150 (A1) |
| REV: | A |

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- NOTES:
- 1, Contours are shown at 1m Intervals.
 - 2,  Denotes Cut.
 - 3,  Denotes Fill.



HARRISON GRIERSON
CONSULTING ENGINEERS SURVEYORS PLANNERS

Level 16 Grand Alliance Tower 246 Collier Terrace Wellington Ph: 04 385 0005 Fax: 04 385 0006

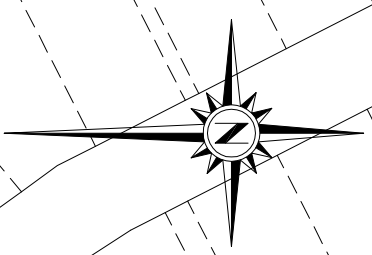
| | |
|----------|--|
| PROJECT: | CARRUS LIMITED AOTEA BLOCK - PORIRUA STAGE 5C & 5D |
| TITLE: | AS BUILT CUT/FILL CONTOURS |

| | | | | |
|--------------|-------|------------|--------------|------------|
| DESIGNED: | DATE: | SIGNATURE: | PLOT DATE: | 30-07-2007 |
| DRAWN: | DATE: | SIGNATURE: | CAD REF: | |
| CHECKED: | DATE: | SIGNATURE: | CAD NAME: | |
| APPROVED: | DATE: | SIGNATURE: | SURVEY BY: | |
| P/M/W: | DATE: | SIGNATURE: | SURVEY DATE: | |
| FOOT STATUS: | | SUR REF: | | |

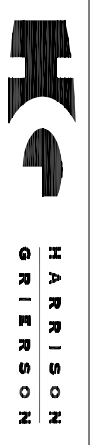
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| PROJECT NO: | 1850-00633-01 | SCALE: | 1:750 (A1) 1:1500 (A3) |
| DRAWING NO: | 000633-5CD-AB201 | REV | A |

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- NOTES:
- 1, Contours are shown at 1m intervals.
 - 2,  Denotes Cut.
 - 3,  Denotes Fill.

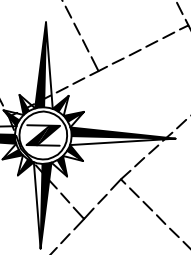


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| PROJECT NO: | | 1850-00633-01 | | SCALES: | | 1:750 (A1) 1:1500 (A3) | |
| DRAWING NO: | | 000633-SCD-AB202 | | REV | | A | |
| PROJECT: | | CARRUS LIMITED AOTEA BLOCK - PORIRUA STAGE 5C & 5C | | PROJECT: | | | |
| DESIGNED: | | | | PLOT DATE: | | 30-07-2007 | |
| DATE: | | | | CAD REF: | | | |
| SIGNATURE: | | | | CAD NAME: | | | |
| DRAWN: | | PWJ | | DATE: | | 04-2007 | |
| DATE: | | | | SIGNED BY: | | | |
| SIGNATURE: | | | | SIGNED DATE: | | | |
| CHECKED: | | BMH | | DATE: | | 04-2007 | |
| DATE: | | | | SIGNATURE: | | | |
| SIGNATURE: | | | | SIGNED DATE: | | | |
| APPROVED: | | PMMW | | DATE: | | 04-2007 | |
| DATE: | | | | SIGNATURE: | | | |
| SIGNATURE: | | | | SIGNED DATE: | | | |
| FOOT STATUS: | | | | SIR REF: | | | |
| AS BUILT | | | | SIR REF: | | | |
| TITLE: | | AS BUILT CUT/FILL CONTOURS WITH SOIL TESTS | | SIR REF: | | | |



Level 16 Grand Alliance Tower 246 Collier Terrace Wellington Ph: 04 385 0035 Fax: 04 385 0065

| | | | | |
|---------------|---|-----------------|-----|---------|
| PROJECT: | A | Initial Release | PWJ | 04-2007 |
| REF AMENDMENT | | | BY | DATE |



LEGEND

- SINGLE LIGHT 6.5m HPS 70W
- EXISTING SINGLE LIGHT 6.5m HPS 70W

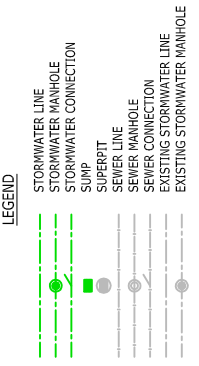
| HARRISON GRIERSON CONSULTING ENGINEERS SURVEYORS PLANNERS <small>Level 16 Grand Alliance Tower 246 Glendon Terrace Wellington Ph: 04 385 0035 Fax: 04 385 0006</small> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|-----------|------------|------------------|------------|--|--|--|------------|--------|-------|------------|-----------|-----|---------|--|------------------|----------|-------|------------|----------|-----|---------|--|-----|-----------|-------|------------|-------------|-----|---------|--|---------|------|-------|------------|----------|--|--|--|--|---|-------------|--------|----------------|-------|-------------|-----|------------------|----|
| PROJECT: CARRUS LIMITED AOTEA BLOCK-PORIRUA STAGE 5C & 5D | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| TITLE: ROADING AS BUILTS OVERALL LAYOUT AND STREET LIGHTS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| DESIGNED: | DATE: | SIGNATURE: | PLOT DATE: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | 30-07-2007 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| DRAWN: | DATE: | SIGNATURE: | CAD FILE: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| GMB | 07-2007 | | 000633-5CD-AB300 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CHECKED: | DATE: | SIGNATURE: | SWAY BY: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| GAW | 07-2007 | | GMB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| APPROVED: | DATE: | SIGNATURE: | SHEET DATE: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| PMW | 07-2007 | | 07-2007 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| PMW: | DATE: | SIGNATURE: | SIR REF: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| PROJECT NO: | SCALE: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1850.000633.01 | 1:750 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| DRAWING NO: | REV | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 000633-5CD-AB300 | A1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

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NOTE:

1. ALL HOUSE CONNECTIONS ARE 100mm DIA UPVC.
2. ALL SINGLE SUMP LEADS ARE 225mm DIA RCRRJ CLASS Z.
3. ALL DOUBLE SUMP LEADS ARE 300mm DIA RCRRJ CLASS Z.
4. ALL POSITIONS AND LEVELS ARE ACCURATE AT THE TIME OF SURVEY.
5. LEVELS ARE IN TERMS OF WELLINGTON VERTICAL DATUM 1953.
6. COORDINATES ARE IN TERMS OF NZGD2000 - WELLINGTON CIRCUIT.

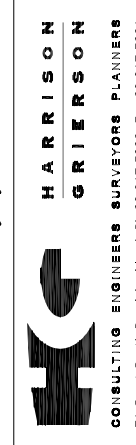
LEGEND



NOTE

THIS PLAN SUPERSEDES DRAWING NO. 000633-5CD-AB400

WARNING: Levels, locations and dimensions of water services shown on these plans may not be accurate due to circumstances not notified to Harrison Grierison Consultants Ltd. A physical check should be made on all levels, locations and dimensions before starting design or works.



| | | | |
|----------|-----------------|----|----------|
| A | INITIAL RELEASE | MH | 30/12/08 |
| REF | AMENDMENT | BY | DATE |
| PROJECT: | | | |

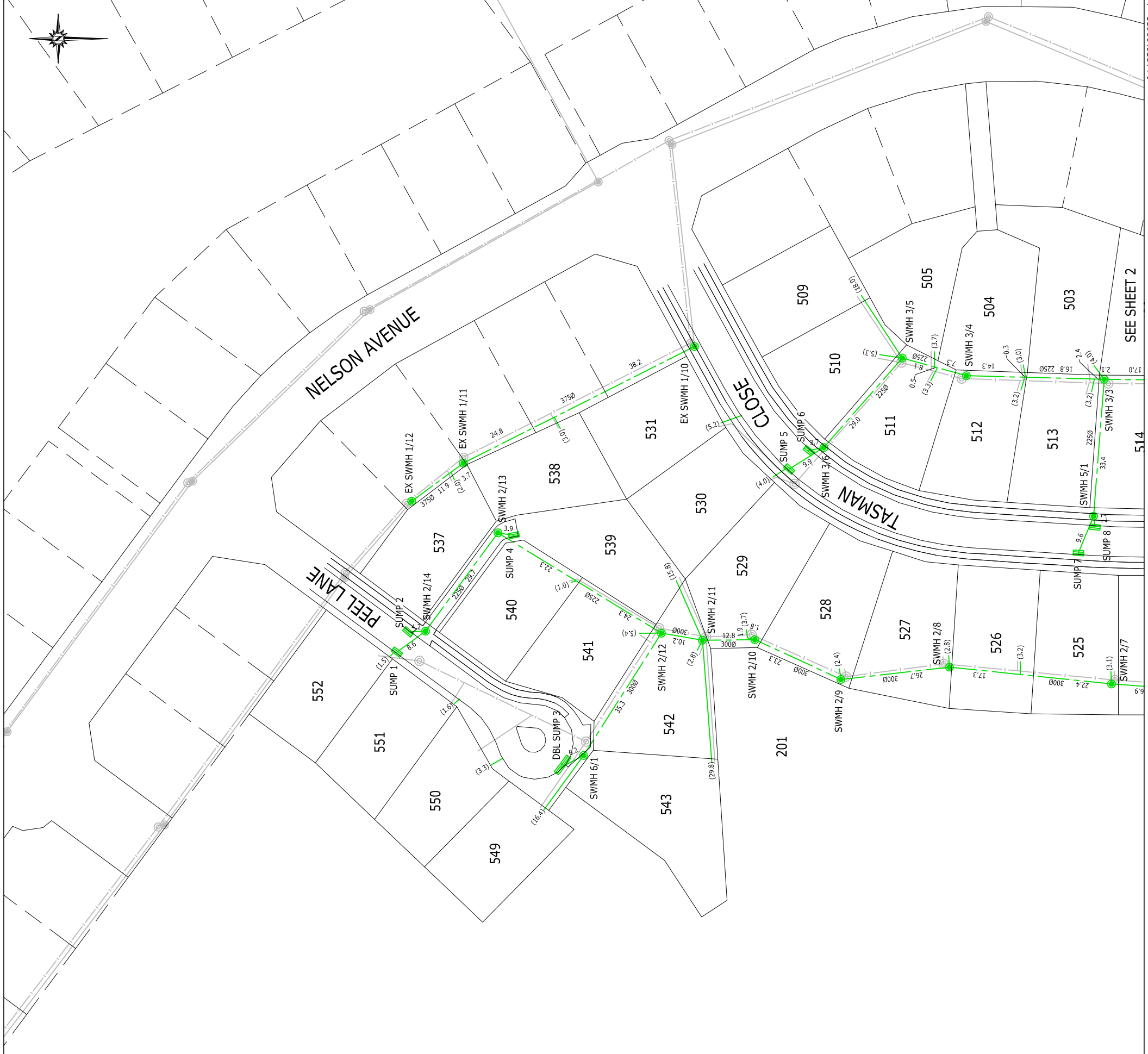
CARRUS LIMITED
AOTEA BLOCK - PORIRUA
STAGE 5C & 5D

TITLE:
STORMWATER AS-BUILTS
SHEET 1 OF 2

| | | | |
|--------------|------------|------------|------------|
| DESIGNED: | DATE: | SIGNATURE: | PLOT DATE: |
| GW | 17-01-2008 | | 17-01-2008 |
| DRAWN: | DATE: | SIGNATURE: | CAD REF: |
| NDH | 10-2-2007 | | |
| CHECKED: | DATE: | SIGNATURE: | CAD REF: |
| CSR | 14-01-2008 | | |
| APPROVED: | DATE: | SIGNATURE: | SURF DATE: |
| JMS | 17-01-2008 | | 06-2007 |
| PLOT STATUS: | | | |

| | |
|-------------|----------------|
| PROJECT No: | 1850-000633-01 |
| SCALE: | 1:500 (A1) |
| DRAWING No: | 1:1000 (A3) |

| |
|----------------------|
| AS BUILT |
| REV |
| A1 |
| 000633-5C-AB400-SW A |



| MH No. | mN | mE | LL | IL |
|--------------|-----------|-----------|-------|-------|
| EX SSMH 1/10 | 819008.90 | 407536.99 | 88.76 | 87.24 |
| EX SSMH 1/11 | 819065.13 | 407508.60 | 95.29 | 91.91 |
| EX SSMH 1/12 | 819077.69 | 407499.34 | 96.44 | 94.77 |
| SWMH 2/7 | 818907.42 | 407454.85 | 77.23 | 75.96 |
| SWMH 2/8 | 818946.79 | 407458.94 | 79.54 | 77.60 |
| SWMH 2/9 | 818973.21 | 407455.95 | 81.90 | 80.01 |
| SWMH 2/10 | 818994.15 | 407465.63 | 85.34 | 83.39 |
| SWMH 2/11 | 819006.92 | 407465.49 | 89.66 | 88.07 |
| SWMH 2/12 | 819016.94 | 407467.22 | 90.72 | 89.32 |
| SWMH 2/13 | 819056.70 | 407491.62 | 94.09 | 91.97 |
| SWMH 2/14 | 819074.33 | 407467.71 | 95.46 | 94.07 |
| SWMH 3/3 | 818909.20 | 407529.01 | 80.23 | 78.10 |
| SWMH 3/4 | 818942.73 | 407529.87 | 83.25 | 81.68 |
| SWMH 3/5 | 818958.33 | 407534.19 | 84.93 | 83.41 |
| SWMH 3/6 | 818977.42 | 407512.40 | 85.74 | 83.79 |
| SWMH 5/1 | 818911.78 | 407495.68 | 79.72 | 78.37 |
| SWMH 6/1 | 819035.89 | 407437.44 | 92.58 | 91.22 |
| SUMP 1 | 819081.27 | 407462.62 | 95.50 | - |
| SUMP 2 | 819078.57 | 407467.54 | 95.58 | - |
| DBL SUMP 3 | 819041.73 | 407434.16 | 92.31 | - |
| SUMP 4 | 819052.82 | 407491.05 | 93.71 | - |
| SUMP 5 | 818985.83 | 407507.17 | 85.75 | - |
| SUMP 6 | 818981.09 | 407511.64 | 85.74 | - |
| SUMP 7 | 818915.48 | 407486.76 | 79.97 | - |
| SUMP 8 | 818911.44 | 407493.02 | 79.69 | - |



ASSOCIATION OF CONSULTING ENGINEERS NEW ZEALAND

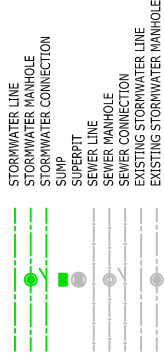
ISO 9001 QUALITY ASSURED

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NOTE:

1. ALL HOUSE CONNECTIONS ARE 100mm DIA UPVC.
2. ALL SINGLE SUMP LEADS ARE 225mm DIA RCRB CLASS Z.
3. ALL DOUBLE SUMP LEADS ARE 300mm DIA RCRB CLASS Z.
4. ALL POSITIONS AND LEVELS ARE ACCURATE AT THE TIME OF SURVEY.
5. LEVELS ARE IN TERMS OF WELLINGTON VERTICAL DATUM 1953.
6. COORDINATES ARE IN TERMS OF NZGD2000 - WELLINGTON CIRCUIT.

LEGEND



NOTE

THIS PLAN SUPERSEDES DRAWING NO. 000633-5CD-AB400

WARNING: Levels, locations and dimensions of water services shown on these plans may not be accurate due to circumstances not notified to Harrison Grierison Consultants Ltd. A physical check should be made on all levels, locations and dimensions before starting design or works.



HARRISON GRIERISON
CONSULTING ENGINEERS SURVEYORS PLANNERS
71 Great South Road Auckland Ph 09 917 5000 Fax 09 917 5001

| | | | |
|-----------------|------------|------------|------------|
| DESIGNED: | DATE: | SIGNATURE: | PLAT DATE: |
| DRAWN: | DATE: | SIGNATURE: | CAD REF: |
| CHECKED: | DATE: | SIGNATURE: | CAD REF: |
| APPROVED: | DATE: | SIGNATURE: | SURF DATE: |
| JMS | 17-01-2008 | | 06-2007 |
| INITIAL RELEASE | DATE: | BY: | DATE: |
| REF AMENDMENT | DATE: | BY: | DATE: |

CARRUS LIMITED
AOTEA BLOCK-PORIRUA
STAGE 5C & 5D

TITLE:

STORMWATER AS-BUILTS
SHEET 2 OF 2

| | | | |
|-----------|------------|------------|------------|
| DESIGNED: | DATE: | SIGNATURE: | PLAT DATE: |
| DRAWN: | DATE: | SIGNATURE: | CAD REF: |
| CHECKED: | DATE: | SIGNATURE: | CAD REF: |
| APPROVED: | DATE: | SIGNATURE: | SURF DATE: |
| JMS | 17-01-2008 | | 06-2007 |

| | | |
|-------------|-------------|----------|
| PROJECT NO: | 1:500 (A1) | AS-BUILT |
| DRAWING NO: | 1:1000 (A2) | A1 |
| | | REV |

000633-5C-AB400-SW A

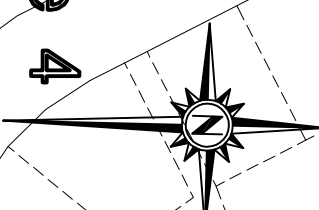


201

| MH No. | mN | mE | LL | IL |
|----------------|-----------|-----------|-------|-------|
| SW OUTLET 2/1A | 818783.32 | 407531.37 | 57.30 | 55.37 |
| SWMH 2/1 | 818786.20 | 407520.35 | 62.76 | 60.32 |
| SWMH 2/2 | 818799.30 | 407511.21 | 67.39 | 66.06 |
| SWMH 2/3 | 818812.30 | 407483.67 | 72.45 | 69.35 |
| SWMH 2/4 | 818838.51 | 407483.33 | 75.21 | 73.05 |
| SWMH 2/5 | 818842.34 | 407483.35 | 75.76 | 73.23 |
| SWMH 2/6 | 818841.97 | 407450.31 | 75.03 | 73.88 |
| SWMH 2/7 | 818907.42 | 407454.85 | 77.23 | 75.96 |
| SWMH 2/8 | 818946.79 | 407458.94 | 79.54 | 77.60 |
| SWMH 3/1 | 818841.43 | 407528.29 | 75.60 | 74.00 |
| SWMH 3/2 | 818863.80 | 407528.40 | 77.72 | 75.48 |
| SWMH 3/3 | 818909.20 | 407529.01 | 80.23 | 78.10 |
| SWMH 3/4 | 818942.73 | 407529.87 | 83.25 | 81.68 |
| SWMH 3/5 | 818958.33 | 407534.19 | 84.93 | 83.41 |
| SWMH 4/1 | 818862.70 | 407483.47 | 77.78 | 76.16 |
| SWMH 5/1 | 818911.78 | 407495.68 | 79.72 | 78.37 |
| SUMP 7 | 818915.48 | 407486.76 | 79.97 | - |
| SUMP 8 | 818911.44 | 407493.02 | 79.69 | - |
| DBL SUMP 9 | 818869.99 | 407490.44 | 77.76 | - |
| DBL SUMP 10 | 818798.00 | 407481.09 | 71.63 | - |
| SUMP 11 | 818865.21 | 407525.31 | 77.77 | - |

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Note:
All dimensions shown are in metres unless otherwise specified



| LOT | MN | mE | CODE |
|---------|-----------|-----------|------|
| LOT 498 | 818880.49 | 407550.82 | TOBY |
| LOT 499 | 818884.09 | 407551.80 | TOBY |
| LOT 503 | 818935.60 | 407565.88 | TOBY |
| LOT 504 | 818935.92 | 407565.21 | TOBY |
| LOT 505 | 818939.93 | 407565.50 | TOBY |
| LOT 509 | 818992.67 | 407534.39 | TOBY |
| LOT 510 | 818992.11 | 407533.69 | TOBY |
| LOT 511 | 818954.55 | 407501.35 | TOBY |
| LOT 512 | 818953.60 | 407501.11 | TOBY |
| LOT 513 | 818913.13 | 407497.39 | TOBY |
| LOT 514 | 818912.11 | 407497.43 | TOBY |
| LOT 515 | 818872.77 | 407502.16 | TOBY |
| LOT 516 | 818864.14 | 407526.06 | TOBY |
| LOT 517 | 818864.17 | 407525.73 | TOBY |
| LOT 518 | 818866.93 | 407486.31 | TOBY |
| LOT 519 | 818791.83 | 407483.33 | TOBY |
| LOT 520 | 818790.42 | 407483.09 | TOBY |
| LOT 521 | 818845.35 | 407481.96 | TOBY |
| LOT 522 | 818846.29 | 407481.85 | TOBY |
| LOT 523 | 818885.30 | 407477.92 | TOBY |
| LOT 524 | 818886.18 | 407478.03 | TOBY |
| LOT 525 | 818923.94 | 407483.00 | TOBY |
| LOT 526 | 818924.82 | 407483.13 | TOBY |
| LOT 527 | 818960.34 | 407488.19 | TOBY |
| LOT 528 | 818961.30 | 407488.51 | TOBY |
| LOT 529 | 818988.86 | 407504.36 | TOBY |
| LOT 530 | 818989.45 | 407504.99 | TOBY |
| LOT 531 | 819010.15 | 407534.90 | TOBY |
| LOT 537 | 819075.21 | 407470.36 | TOBY |
| LOT 538 | 819052.60 | 407495.56 | TOBY |
| LOT 539 | 819052.52 | 407495.27 | TOBY |
| LOT 540 | 819070.76 | 407466.80 | TOBY |
| LOT 541 | 819033.88 | 407445.98 | TOBY |
| LOT 542 | 819033.53 | 407445.28 | TOBY |
| LOT 543 | 819040.48 | 407429.87 | TOBY |
| LOT 549 | 819044.62 | 407424.30 | TOBY |
| LOT 550 | 819065.83 | 407449.32 | TOBY |
| LOT 551 | 819066.61 | 407449.79 | TOBY |
| LOT 552 | 819098.05 | 407472.96 | TOBY |
| FH 1 | 819054.12 | 407433.80 | FH |
| FH 2 | 818966.66 | 407493.55 | FH |
| FH 3 | 818868.69 | 407489.77 | FH |
| GV 1 | 819074.52 | 407470.42 | GV |
| GV 2 | 819052.37 | 407432.06 | GV |
| GV 3 | 819040.10 | 407429.29 | GV |
| GV 4 | 818866.55 | 407486.05 | GV |
| GV 5 | 818869.07 | 407491.08 | GV |
| GV 6 | 818871.44 | 407502.71 | GV |

LEGEND:

| | |
|--|----------------|
| | FIRE HYDRANT |
| | GATE VALVE |
| | SLUICE VALVE |
| | WATER TOBY |
| | END CAP |
| | WATERMAIN |
| | EXIT WATERMAIN |

I, BRETT WILLIAM HORNE, LICENSED CONSULTANT SURVEYOR CERTIFY THAT ALL PIPS AND FITTINGS SHOWN ON THIS PLAN ARE ACCURATELY PLOTTED IN RELATION TO BOUNDARIES AND THAT THE INFORMATION RECORDED IS CORRECT.

LICENSED CONSULTANT SURVEYOR

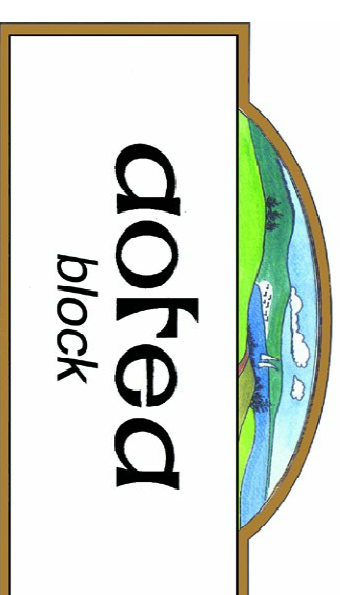


| | | | |
|---|------------------|---|---------------------------|
| | | HARRISON GRIERSON CONSULTING ENGINEERS SURVEYORS PLANNERS Level 16 Grand Pinnacle Tower 246 Clifftop Terrace Wellington Ph: 04 385 0035 Fax: 04 385 0065 | |
| PROJECT NO: | 1850-00633-01 | SCALE: | 1:750 (A1) 1:1500 (A3) |
| DRAWING NO: | 000633-5CD-AB500 | REV | B |
| CARRUS LIMITED AOTEA BLOCK-PORIRUA STAGE 5C & 5D | | WATERMAIN AS BUILTS OVERALL LAYOUT | |
| DESIGNER: | DATE: | SIGNATURE: | PILOT DATE: |
| PWJ | 04-2006 | | 11-09-2007 |
| DRAWN: | DATE: | SIGNATURE: | CAD FILE: |
| GMB | 07-2007 | | 000633-5CD-AB500 |
| CHECKED: | DATE: | SIGNATURE: | CAD FILE: |
| GAW | 07-2007 | | GMB |
| APPROVED: | DATE: | SIGNATURE: | SHEET DATE: |
| PMMW | 07-2007 | | 06-2007 |
| FOOTNOTES: | SIR REF: | | |
| AS-BUILT | | | |

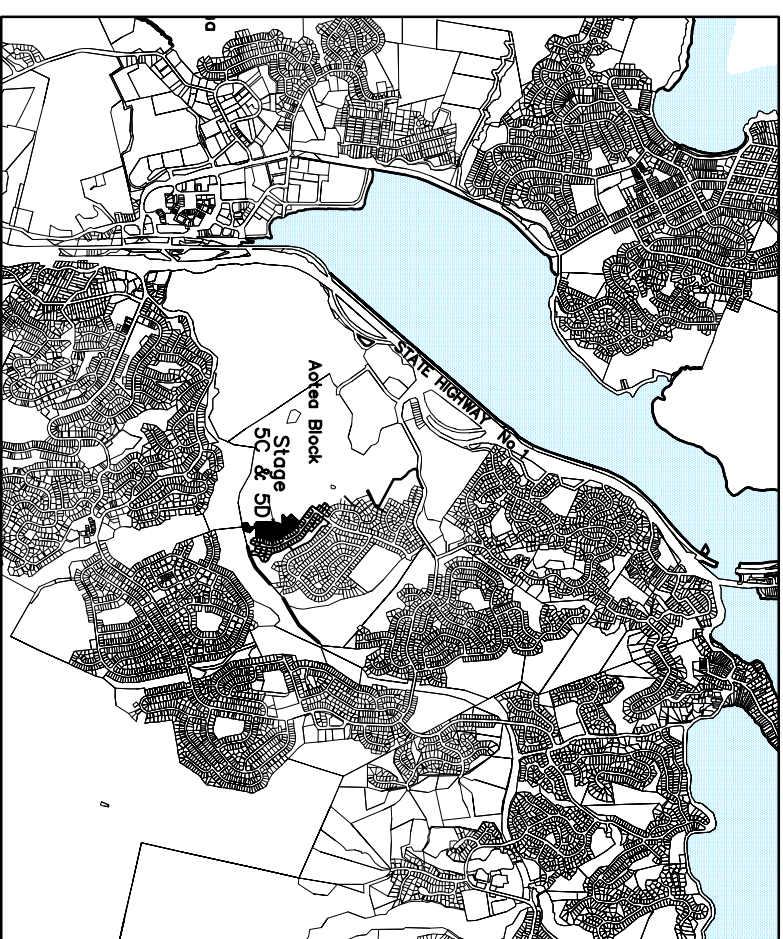
CARRUS LIMITED

AOTEA BLOCK - PORIRUA

STAGE 5C & 5D AS-BUILT



| | |
|------------------|---|
| 000633-5CD-AB200 | Earthworks As-Builts - Finished Subgrade Contours |
| 000633-5CD-AB201 | Earthworks As-Builts Cut/Fill Contours |
| 000633-5CD-AB202 | Earthworks As-Builts Cut/Fill Contours - Soil Test & Subsoil Location |
| 000633-5CD-AB300 | Roading As-Builts Overall - Layout & Lights |
| 000633-5CD-AB400 | Drainage As-Builts Overall Layout |
| 000633-5CD-AB500 | Watermain As-Builts Overall Layout |



Locality Plan
Scale 1:25,000



HARRISON
GRIERSON

ISSUE A

1850-000633-01
JULY 2007