

13<sup>th</sup> January 2023

Reference No. SMS1.22204-L15.Rev0

Mr Michael Engelaar  
LR&M Construction Pty Ltd  
6 Roseworthy Road  
ROSEWORTHY SA 5371

**LOT 1114 CRAWFORD WALK – BLUESTONE LAND DIVISION STAGE 5B2, MT BARKER**

Dear Michael,

SMS Geotechnical Pty Ltd (SMS) was commissioned by LR&M Construction Pty Ltd (LR&M) to provide Level 1 earthworks inspection and testing services during fill placement on Lot 1114 Crawford Walk on the above project in Mt Barker, South Australia. The area where fill was placed is shown approximately in Drawing SMS1.22204-F15.Rev0.

SMS were provided with a TBM by LR&M which was used to measure and record both pre and post fill levels. Post fill levels were taken prior to the placement of topsoil. The post fill levels were measured at approximately the same locations as the pre fill levels. These levels are detailed in Drawing SMS1.22204-F15.Rev0.

Whilst the utmost amount of care was taken while measuring these levels, SMS is not a licensed surveyor and the difference in measurements on Drawing SMS1.22204-F15.Rev0 may differ slightly to the maximum depth of placed fill on this site.

Level 1 inspection and testing services were carried out by SMS to Australian Standard AS3798-2007 "Guidelines on earthworks for commercial and residential developments" between 31<sup>st</sup> March 2022 and 18<sup>th</sup> May 2022. The subgrade was inspected and showed no signs of organic or unsuitable material. Subgrade proof rolling was witnessed prior to fill being placed and was deemed suitable by SMS' representative on site.


SMS conducted in situ density testing to AS1289.5.8.1 at randomly selected locations throughout areas in which fill was placed as per frequencies outlined in AS3798-2007. The density test results have been issued separately to LR&M and are retained in our project file. The required laboratory dry density ratio was achieved on all tests taken during fill placement. Laboratory tests were conducted to AS1289.5.1.1.

On the completion of Level 1 earthworks inspection and testing, SMS advise that the fill placed on Lot 1114 Crawford Walk as shown in Drawing SMS1.22204-F15.Rev0, was witnessed and in our opinion meets the requirements of "Controlled Fill" as defined in AS3798-2007 and AS2870-2011 "Residential slabs and footings".

However, it should be recognised that the passage of time affects the information provided in this letter. SMS's opinions are based upon information that existed at the time that our services were provided. The services allowed SMS to form no more than an opinion of the fill placement undertaken under our Level 1 inspection and testing services at the times the earthworks were carried out. These services cannot be used to assess the effect of any subsequent further works at the site.

If you have any questions relating to this project or require any additional information, please contact our office on (08) 8258 7498.

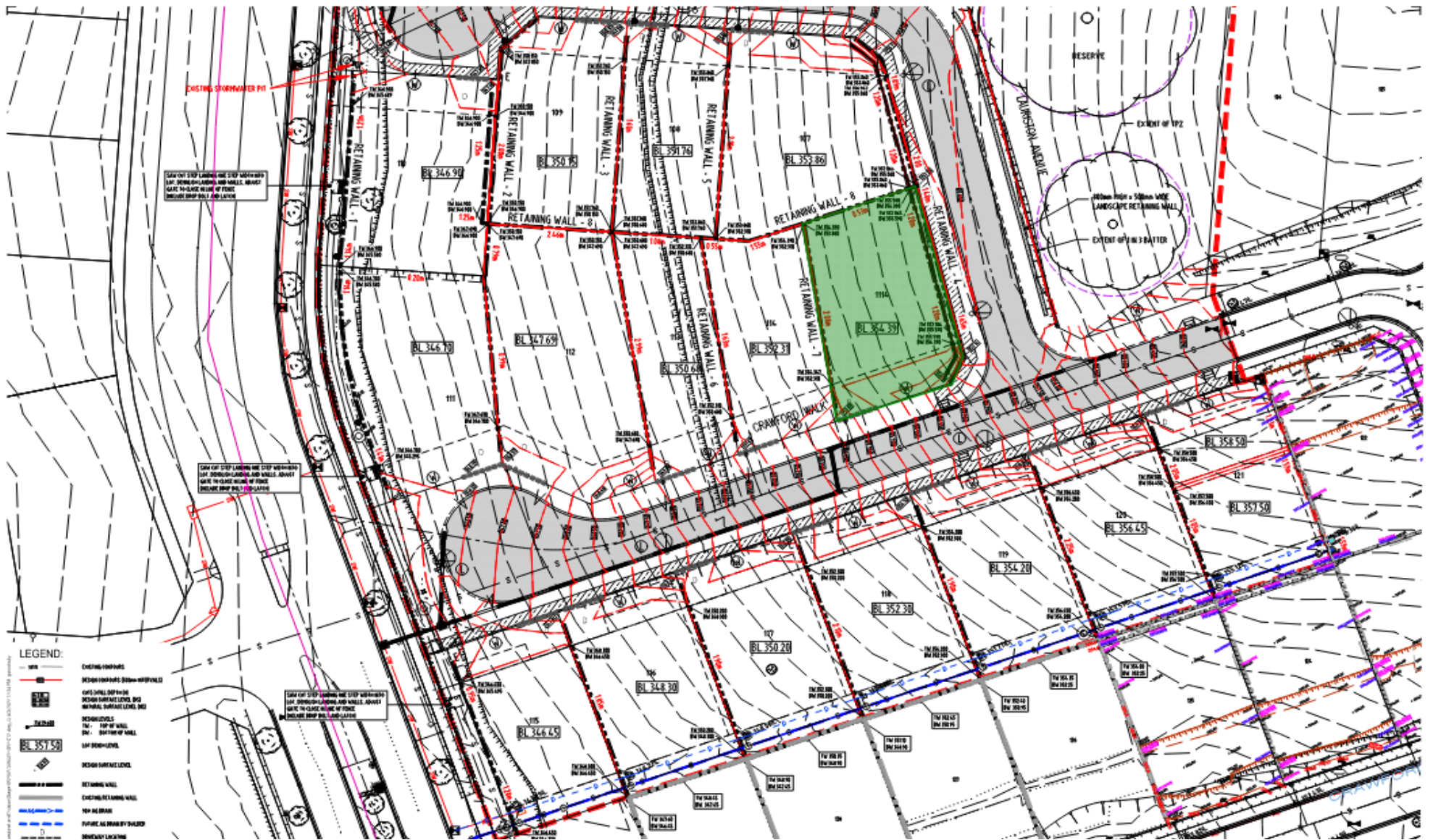
**SMS GEOTECHNICAL PTY LTD**



**Luke Garcia**  
Laboratory Manager

Attachments: Drawing SMS1.22204-F15.Rev0

| Location | Pre Fill | Post Fill |
|----------|----------|-----------|
| Lot 1114 | 353.820  | 354.280   |



**LEGEND:**

|  |                                 |
|--|---------------------------------|
|  | EXISTING CONTOURS               |
|  | DESIGN CONTOURS 200mm INTERVALS |
|  | SPOT HEIGHTS                    |
|  | TOP OF WALL                     |
|  | BOTTOM OF WALL                  |
|  | RETAINING WALL                  |
|  | EXISTING RETAINING WALL         |
|  | NEW RETAINING WALL              |
|  | FUTURE RETAINING WALL           |

Approx. Fill Location



|           |     |       |            |
|-----------|-----|-------|------------|
| Drawn:    | LG  | Date: | 12.01.2023 |
| Checked:  | CS  | Date: | 12.01.2023 |
| Revision: |     | Date: |            |
| Scale:    | NTS |       |            |

|   |                     |
|---|---------------------|
| <b>LR&amp;M CONSTRUCTIONS PTY LTD</b>             |                     |
| <b>BLUESTONE STAGE 5B2</b>                        |                     |
| <b>MOUNT BARKER</b>                               |                     |
| <b>SITE PLAN SHOWING PRE AND POST FILL LEVELS</b> |                     |
| Project No.:                                      | SMS1.22204          |
| Drawing No.:                                      | SMS1.22204-F15.Rev0 |

13<sup>th</sup> January 2023

Reference No. SMS1.22204-L14.Rev0

Mr Michael Engelaar  
LR&M Construction Pty Ltd  
6 Roseworthy Road  
ROSEWORTHY SA 5371

**LOT 121 CRAWFORD WALK – BLUESTONE LAND DIVISION STAGE 5B2, MT BARKER**

Dear Michael,

SMS Geotechnical Pty Ltd (SMS) was commissioned by LR&M Construction Pty Ltd (LR&M) to provide Level 1 earthworks inspection and testing services during fill placement on Lot 121 Crawford Walk on the above project in Mt Barker, South Australia. The area where fill was placed is shown approximately in Drawing SMS1.22204-F14.Rev0.

SMS were provided with a TBM by LR&M which was used to measure and record both pre and post fill levels. Post fill levels were taken prior to the placement of topsoil. The post fill levels were measured at approximately the same locations as the pre fill levels. These levels are detailed in Drawing SMS1.22204-F14.Rev0.

Whilst the utmost amount of care was taken while measuring these levels, SMS is not a licensed surveyor and the difference in measurements on Drawing SMS1.22204-F14.Rev0 may differ slightly to the maximum depth of placed fill on this site.

Level 1 inspection and testing services were carried out by SMS to Australian Standard AS3798-2007 "Guidelines on earthworks for commercial and residential developments" between 31<sup>st</sup> March 2022 and 18<sup>th</sup> May 2022. The subgrade was inspected and showed no signs of organic or unsuitable material. Subgrade proof rolling was witnessed prior to fill being placed and was deemed suitable by SMS' representative on site.


SMS conducted in situ density testing to AS1289.5.8.1 at randomly selected locations throughout areas in which fill was placed as per frequencies outlined in AS3798-2007. The density test results have been issued separately to LR&M and are retained in our project file. The required laboratory dry density ratio was achieved on all tests taken during fill placement. Laboratory tests were conducted to AS1289.5.1.1.

On the completion of Level 1 earthworks inspection and testing, SMS advise that the fill placed on Lot 121 Crawford Walk as shown in Drawing SMS1.22204-F14.Rev0, was witnessed and in our opinion meets the requirements of "Controlled Fill" as defined in AS3798-2007 and AS2870-2011 "Residential slabs and footings".

However, it should be recognised that the passage of time affects the information provided in this letter. SMS's opinions are based upon information that existed at the time that our services were provided. The services allowed SMS to form no more than an opinion of the fill placement undertaken under our Level 1 inspection and testing services at the times the earthworks were carried out. These services cannot be used to assess the effect of any subsequent further works at the site.

If you have any questions relating to this project or require any additional information, please contact our office on (08) 8258 7498.

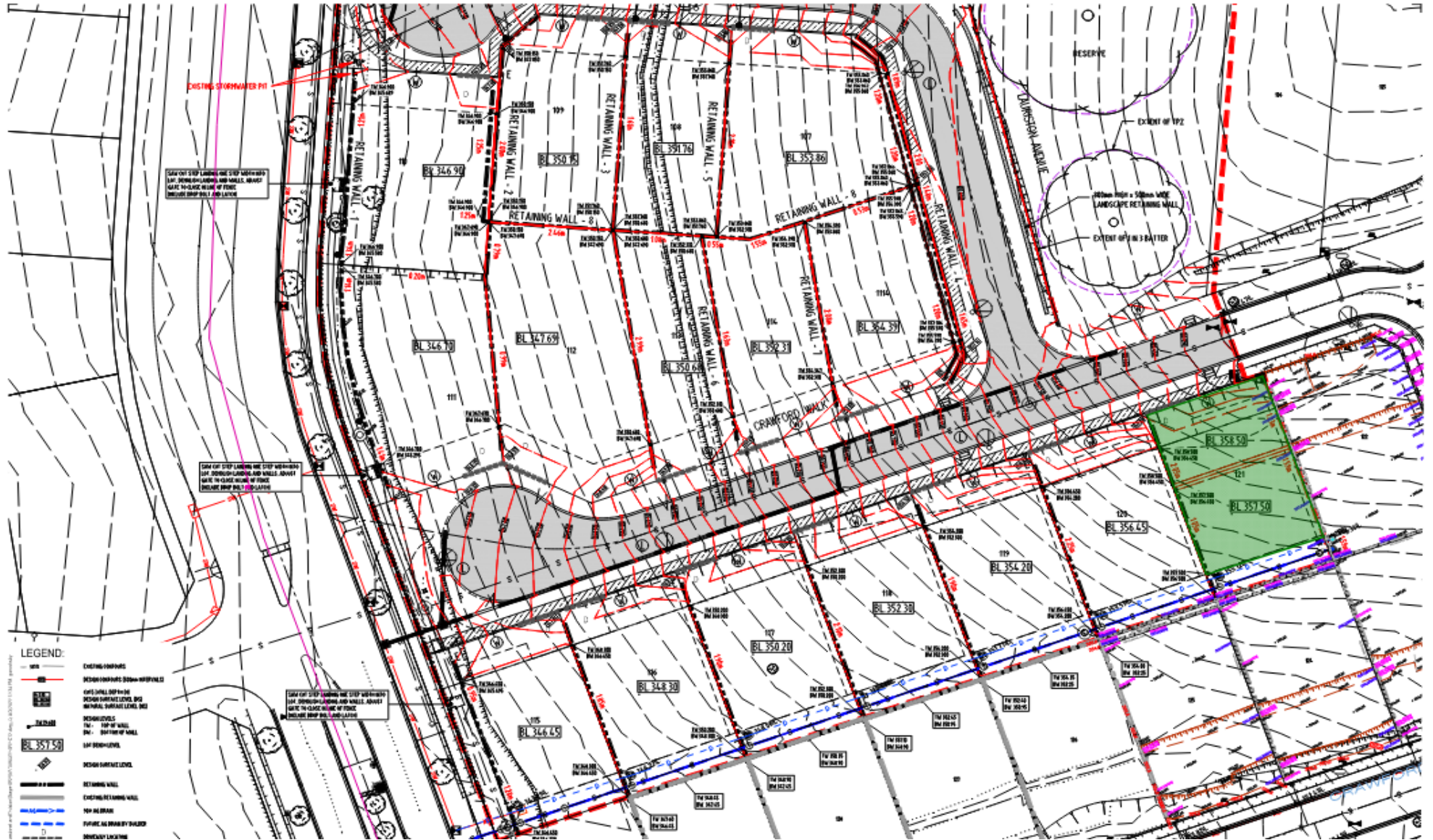
**SMS GEOTECHNICAL PTY LTD**



**Luke Garcia**  
Laboratory Manager

Attachments: Drawing SMS1.22204-F14.Rev0

| Location | Pre Fill | Post Fill |
|----------|----------|-----------|
| Lot 121  | 356.400  | 357.390   |



**LEGEND:**

|  |  |
|--|--|
|  | EXISTING BOUNDARY  |
|  | DESIGN BOUNDARY 200mm OFFSET   |
|  | EXISTING STOP LANDING AND STOP MARKINGS (SEE DRAWING LAYOUT AND WALLS ADJUST TO MATCH EXISTING LEVELS AND MATCHING SURFACE LEVELS, SEE NOTE TO CLASH CHECK OF THIS INCLUDE DROP BOLL AND LANE) |
|  | DESIGN STOP LANDING AND STOP MARKINGS (SEE DRAWING LAYOUT AND WALLS ADJUST TO MATCH EXISTING LEVELS AND MATCHING SURFACE LEVELS, SEE NOTE TO CLASH CHECK OF THIS INCLUDE DROP BOLL AND LANE)   |
|  | DESIGN LEVELS  |
|  | TOP OF WALL  |
|  | EXTENT OF BATTER   |
|  | DESIGN SURFACE LEVEL   |
|  | RETAINING WALL   |
|  | EXISTING RETAINING WALL  |
|  | NEW DRIVE  |
|  | EXISTING DRIVEWAY PAVED  |
|  | EXISTING DRIVEWAY  |

Approx. Fill Location



|           |     |       |            |
|-----------|-----|-------|------------|
| Drawn:    | LG  | Date: | 12.01.2023 |
| Checked:  | CS  | Date: | 12.01.2023 |
| Revision: |     | Date: |            |
| Scale:    | NTS |       |            |

|   |                     |
|---|---------------------|
| <b>LR&amp;M CONSTRUCTIONS PTY LTD</b>             |                     |
| <b>BLUESTONE STAGE 5B2</b>                        |                     |
| <b>MOUNT BARKER</b>                               |                     |
| <b>SITE PLAN SHOWING PRE AND POST FILL LEVELS</b> |                     |
| Project No.:                                      | SMS1.22204          |
| Drawing No.:                                      | SMS1.22204-F14.Rev0 |

13<sup>th</sup> January 2023

Reference No. SMS1.22204-L13.Rev0

Mr Michael Engelaar  
LR&M Construction Pty Ltd  
6 Roseworthy Road  
ROSEWORTHY SA 5371

**LOT 120 CRAWFORD WALK – BLUESTONE LAND DIVISION STAGE 5B2, MT BARKER**

Dear Michael,

SMS Geotechnical Pty Ltd (SMS) was commissioned by LR&M Construction Pty Ltd (LR&M) to provide Level 1 earthworks inspection and testing services during fill placement on Lot 120 Crawford Walk on the above project in Mt Barker, South Australia. The area where fill was placed is shown approximately in Drawing SMS1.22204-F13.Rev0.

SMS were provided with a TBM by LR&M which was used to measure and record both pre and post fill levels. Post fill levels were taken prior to the placement of topsoil. The post fill levels were measured at approximately the same locations as the pre fill levels. These levels are detailed in Drawing SMS1.22204-F13.Rev0.

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Level 1 inspection and testing services were carried out by SMS to Australian Standard AS3798-2007 "Guidelines on earthworks for commercial and residential developments" between 31<sup>st</sup> March 2022 and 18<sup>th</sup> May 2022. The subgrade was inspected and showed no signs of organic or unsuitable material. Subgrade proof rolling was witnessed prior to fill being placed and was deemed suitable by SMS' representative on site.


SMS conducted in situ density testing to AS1289.5.8.1 at randomly selected locations throughout areas in which fill was placed as per frequencies outlined in AS3798-2007. The density test results have been issued separately to LR&M and are retained in our project file. The required laboratory dry density ratio was achieved on all tests taken during fill placement. Laboratory tests were conducted to AS1289.5.1.1.

On the completion of Level 1 earthworks inspection and testing, SMS advise that the fill placed on Lot 120 Crawford Walk as shown in Drawing SMS1.22204-F13.Rev0, was witnessed and in our opinion meets the requirements of "Controlled Fill" as defined in AS3798-2007 and AS2870-2011 "Residential slabs and footings".

However, it should be recognised that the passage of time affects the information provided in this letter. SMS's opinions are based upon information that existed at the time that our services were provided. The services allowed SMS to form no more than an opinion of the fill placement undertaken under our Level 1 inspection and testing services at the times the earthworks were carried out. These services cannot be used to assess the effect of any subsequent further works at the site.

If you have any questions relating to this project or require any additional information, please contact our office on (08) 8258 7498.

**SMS GEOTECHNICAL PTY LTD**



**Luke Garcia**  
Laboratory Manager

Attachments: Drawing SMS1.22204-F13.Rev0

| Location | Pre Fill | Post Fill |
|----------|----------|-----------|
| Lot 120  | 354.250  | 356.340   |



Approx. Fill Location

**SMS**  
**GEOTECHNICAL**  
*Quality in Construction*

|           |     |       |            |
|-----------|-----|-------|------------|
| Drawn:    | LG  | Date: | 12.01.2023 |
| Checked:  | CS  | Date: | 12.01.2023 |
| Revision: |     | Date: |            |
| Scale:    | NTS |       | A4         |

|   |                     |
|---|---------------------|
| <b>LR&amp;M CONSTRUCTIONS PTY LTD</b>             |                     |
| <b>BLUESTONE STAGE 5B2</b>                        |                     |
| <b>MOUNT BARKER</b>                               |                     |
| <b>SITE PLAN SHOWING PRE AND POST FILL LEVELS</b> |                     |
| Project No.:                                      | SMS1.22204          |
| Drawing No.:                                      | SMS1.22204-F13.Rev0 |

13<sup>th</sup> January 2023

Reference No. SMS1.22204-L12.Rev0

Mr Michael Engelaar  
LR&M Construction Pty Ltd  
6 Roseworthy Road  
ROSEWORTHY SA 5371

**LOT 119 CRAWFORD WALK – BLUESTONE LAND DIVISION STAGE 5B2, MT BARKER**

Dear Michael,

SMS Geotechnical Pty Ltd (SMS) was commissioned by LR&M Construction Pty Ltd (LR&M) to provide Level 1 earthworks inspection and testing services during fill placement on Lot 119 Crawford Walk on the above project in Mt Barker, South Australia. The area where fill was placed is shown approximately in Drawing SMS1.22204-F12.Rev0.

SMS were provided with a TBM by LR&M which was used to measure and record both pre and post fill levels. Post fill levels were taken prior to the placement of topsoil. The post fill levels were measured at approximately the same locations as the pre fill levels. These levels are detailed in Drawing SMS1.22204-F12.Rev0.

Whilst the utmost amount of care was taken while measuring these levels, SMS is not a licensed surveyor and the difference in measurements on Drawing SMS1.22204-F12.Rev0 may differ slightly to the maximum depth of placed fill on this site.

Level 1 inspection and testing services were carried out by SMS to Australian Standard AS3798-2007 "Guidelines on earthworks for commercial and residential developments" between 31<sup>st</sup> March 2022 and 18<sup>th</sup> May 2022. The subgrade was inspected and showed no signs of organic or unsuitable material. Subgrade proof rolling was witnessed prior to fill being placed and was deemed suitable by SMS' representative on site.


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On the completion of Level 1 earthworks inspection and testing, SMS advise that the fill placed on Lot 119 Crawford Walk as shown in Drawing SMS1.22204-F12.Rev0, was witnessed and in our opinion meets the requirements of "Controlled Fill" as defined in AS3798-2007 and AS2870-2011 "Residential slabs and footings".

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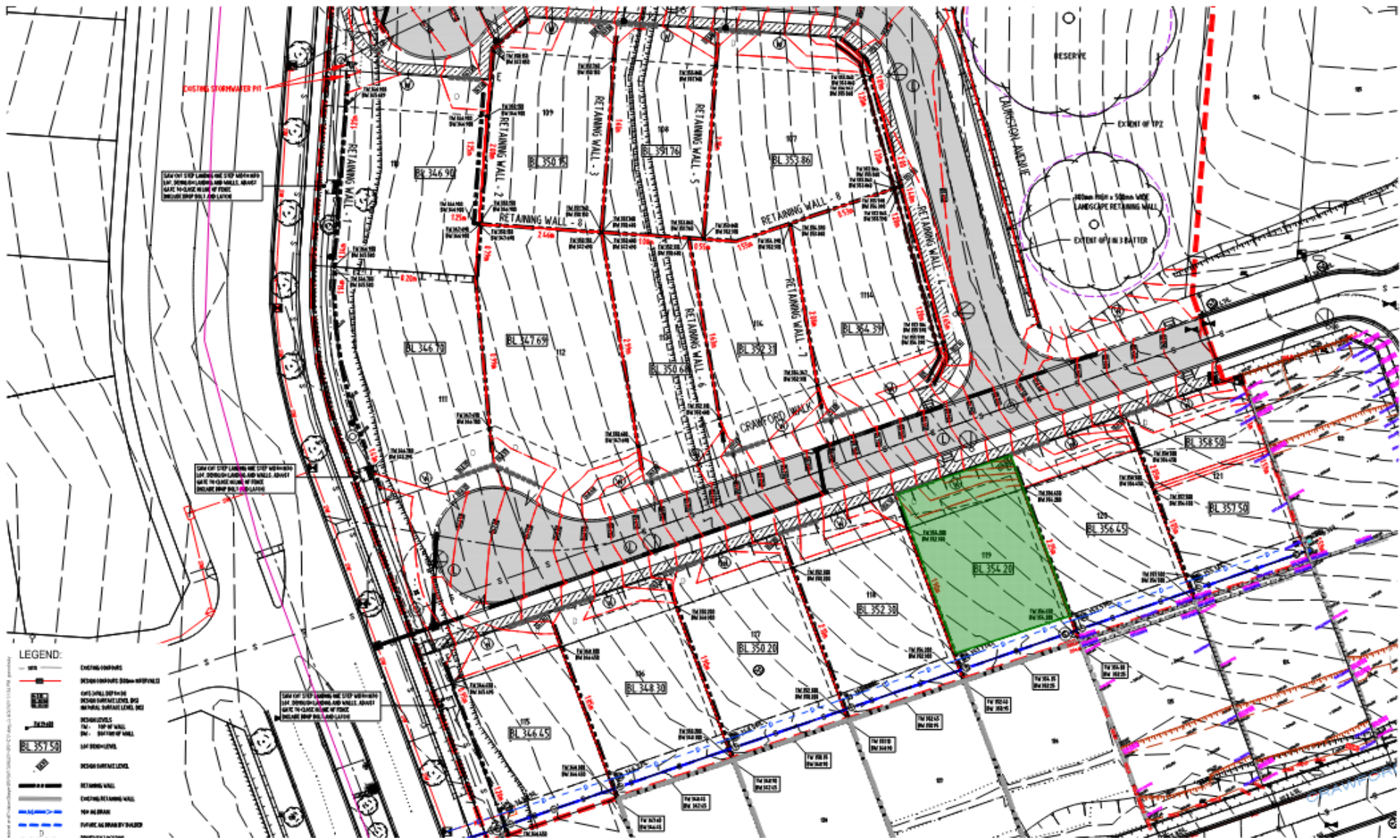
**SMS GEOTECHNICAL PTY LTD**



**Luke Garcia**  
Laboratory Manager

Attachments: Drawing SMS1.22204-F12.Rev0

| Location | Pre Fill | Post Fill |
|----------|----------|-----------|
| Lot 119  | 352.200  | 354.080   |



**LEGEND:**

|  |                                    |
|--|------------------------------------|
|  | EXISTING CONTOURS                  |
|  | DESIGN CONTOURS (DESIGN UNIFORMED) |
|  | EXISTING SURFACE LEVELS, BPO       |
|  | DESIGN SURFACE LEVELS, BPO         |
|  | RETAINING WALL                     |
|  | EXISTING RETAINING WALL            |
|  | TOP OF WALL                        |
|  | BOTTOM OF WALL                     |
|  | TOP OF FILL                        |
|  | BOTTOM OF FILL                     |
|  | RESERVE                            |
|  | LANDSCAPE RETAINING WALL           |
|  | EXTENT OF 1:2 BATTER               |
|  | EXTENT OF 1:3 BATTER               |

Approx. Fill Location

**SMS**  
**GEOTECHNICAL**  
*Quality in Construction*

|           |     |       |            |
|-----------|-----|-------|------------|
| Drawn:    | LG  | Date: | 12.01.2023 |
| Checked:  | CS  | Date: | 12.01.2023 |
| Revision: |     | Date: |            |
| Scale:    | NTS |       | A4         |

|   |                     |
|---|---------------------|
| <b>LR&amp;M CONSTRUCTIONS PTY LTD</b>             |                     |
| <b>BLUESTONE STAGE 5B2</b>                        |                     |
| <b>MOUNT BARKER</b>                               |                     |
| <b>SITE PLAN SHOWING PRE AND POST FILL LEVELS</b> |                     |
| Project No.:                                      | SMS1.22204          |
| Drawing No.:                                      | SMS1.22204-F12.Rev0 |



13<sup>th</sup> January 2023

Reference No. SMS1.22204-L11.Rev0

Mr Michael Engelaar  
LR&M Construction Pty Ltd  
6 Roseworthy Road  
ROSEWORTHY SA 5371

**LOT 118 CRAWFORD WALK – BLUESTONE LAND DIVISION STAGE 5B2, MT BARKER**

Dear Michael,

SMS Geotechnical Pty Ltd (SMS) was commissioned by LR&M Construction Pty Ltd (LR&M) to provide Level 1 earthworks inspection and testing services during fill placement on Lot 118 Crawford Walk on the above project in Mt Barker, South Australia. The area where fill was placed is shown approximately in Drawing SMS1.22204-F11.Rev0.

SMS were provided with a TBM by LR&M which was used to measure and record both pre and post fill levels. Post fill levels were taken prior to the placement of topsoil. The post fill levels were measured at approximately the same locations as the pre fill levels. These levels are detailed in Drawing SMS1.22204-F11.Rev0.

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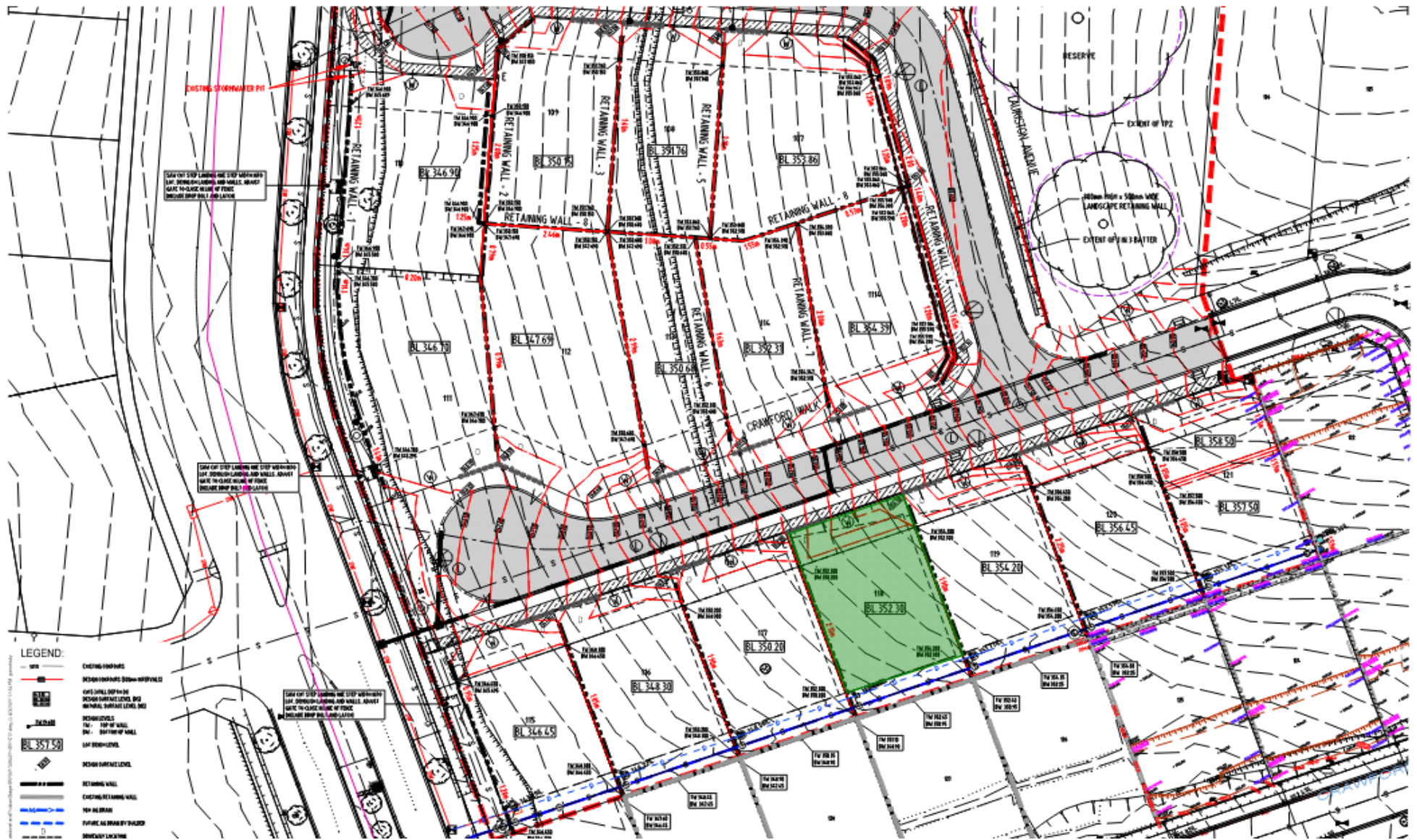
**SMS GEOTECHNICAL PTY LTD**



**Luke Garcia**  
Laboratory Manager

Attachments: Drawing SMS1.22204-F11.Rev0

| Location | Pre Fill | Post Fill |
|----------|----------|-----------|
| Lot 118  | 350.300  | 352.190   |



**LEGEND:**

- EXISTING SHAPES
- DESIGN SHAPES: DRAINAGE IMPROVEMENTS
- EXISTING AND PROPOSED DRAINAGE
- DESIGN LEVELS:
  - TOP OF WALL
  - OUTSIDE OF WALL
  - SAT. GROUND LEVEL
  - DESIGN FINISH LEVEL
- RETAINING WALL
  - EXISTING/PROPOSED RETAINING WALL
  - TOP OF GRADE
  - FUTURE WALL PROPOSED BY OTHERS
  - BOUNDARY LINES

Approx. Fill Location

**SMS**  
**GEOTECHNICAL**  
*Quality in Construction*

|           |     |       |            |
|-----------|-----|-------|------------|
| Drawn:    | LG  | Date: | 12.01.2023 |
| Checked:  | CS  | Date: | 12.01.2023 |
| Revision: |     | Date: |            |
| Scale:    | NTS |       |            |

**LR&M CONSTRUCTIONS PTY LTD**  
**BLUESTONE STAGE 5B2**  
**MOUNT BARKER**  
**SITE PLAN SHOWING PRE AND POST FILL LEVELS**

|              |            |              |                     |
|--------------|------------|--------------|---------------------|
| Project No.: | SMS1.22204 | Drawing No.: | SMS1.22204-F11.Rev0 |
|--------------|------------|--------------|---------------------|

13<sup>th</sup> January 2023

Reference No. SMS1.22204-L10.Rev0

Mr Michael Engelaar  
LR&M Construction Pty Ltd  
6 Roseworthy Road  
ROSEWORTHY SA 5371

**LOT 117 CRAWFORD WALK – BLUESTONE LAND DIVISION STAGE 5B2, MT BARKER**

Dear Michael,

SMS Geotechnical Pty Ltd (SMS) was commissioned by LR&M Construction Pty Ltd (LR&M) to provide Level 1 earthworks inspection and testing services during fill placement on Lot 117 Crawford Walk on the above project in Mt Barker, South Australia. The area where fill was placed is shown approximately in Drawing SMS1.22204-F10.Rev0.

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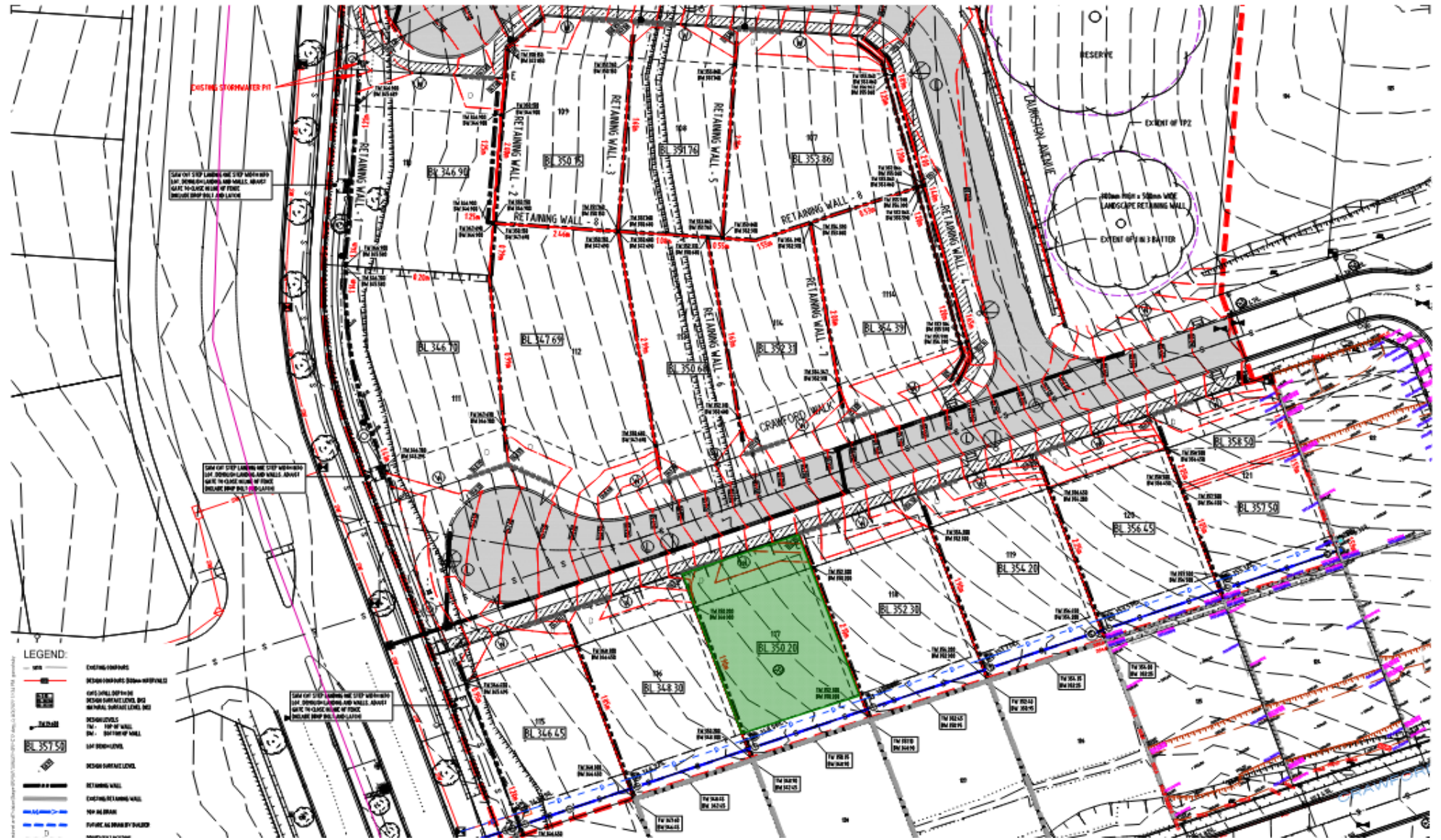
**SMS GEOTECHNICAL PTY LTD**



**Luke Garcia**  
Laboratory Manager

Attachments: Drawing SMS1.22204-F10.Rev0

| Location | Pre Fill | Post Fill |
|----------|----------|-----------|
| Lot 117  | 348.450  | 350.080   |



**LEGEND:**

- - - - - EXISTING FOOTPATH
- - - - - EXISTING FOOTPATH BOUNDARY
- - - - - EXISTING RETAINING WALL
- - - - - TOP OF ROAD
- - - - - FUTURE AS SHOWN BY DWELLER
- █ RETAINING WALL
- █ EXISTING RETAINING WALL
- █ TOP OF ROAD
- █ FUTURE AS SHOWN BY DWELLER

Approx. Fill Location



|           |     |       |            |
|-----------|-----|-------|------------|
| Drawn:    | LG  | Date: | 12.01.2023 |
| Checked:  | CS  | Date: | 12.01.2023 |
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| Scale:    | NTS |       | A4         |

|   |                     |
|---|---------------------|
| <b>LR&amp;M CONSTRUCTIONS PTY LTD</b><br><b>BLUESTONE STAGE 5B2</b><br><b>MOUNT BARKER</b><br><b>SITE PLAN SHOWING PRE AND POST FILL LEVELS</b> |                     |
| Project No.:  | SMS1.22204          |
| Drawing No.:  | SMS1.22204-F10.Rev0 |

13<sup>th</sup> January 2023

Reference No. SMS1.22204-L9.Rev0

Mr Michael Engelaar  
LR&M Construction Pty Ltd  
6 Roseworthy Road  
ROSEWORTHY SA 5371

**LOT 116 CRAWFORD WALK – BLUESTONE LAND DIVISION STAGE 5B2, MT BARKER**

Dear Michael,

SMS Geotechnical Pty Ltd (SMS) was commissioned by LR&M Construction Pty Ltd (LR&M) to provide Level 1 earthworks inspection and testing services during fill placement on Lot 116 Crawford Walk on the above project in Mt Barker, South Australia. The area where fill was placed is shown approximately in Drawing SMS1.22204-F9.Rev0.

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Level 1 inspection and testing services were carried out by SMS to Australian Standard AS3798-2007 "Guidelines on earthworks for commercial and residential developments" between 31<sup>st</sup> March 2022 and 18<sup>th</sup> May 2022. The subgrade was inspected and showed no signs of organic or unsuitable material. Subgrade proof rolling was witnessed prior to fill being placed and was deemed suitable by SMS' representative on site.


SMS conducted in situ density testing to AS1289.5.8.1 at randomly selected locations throughout areas in which fill was placed as per frequencies outlined in AS3798-2007. The density test results have been issued separately to LR&M and are retained in our project file. The required laboratory dry density ratio was achieved on all tests taken during fill placement. Laboratory tests were conducted to AS1289.5.1.1.

On the completion of Level 1 earthworks inspection and testing, SMS advise that the fill placed on Lot 116 Crawford Walk as shown in Drawing SMS1.22204-F9.Rev0, was witnessed and in our opinion meets the requirements of "Controlled Fill" as defined in AS3798-2007 and AS2870-2011 "Residential slabs and footings".

However, it should be recognised that the passage of time affects the information provided in this letter. SMS's opinions are based upon information that existed at the time that our services were provided. The services allowed SMS to form no more than an opinion of the fill placement undertaken under our Level 1 inspection and testing services at the times the earthworks were carried out. These services cannot be used to assess the effect of any subsequent further works at the site.

If you have any questions relating to this project or require any additional information, please contact our office on (08) 8258 7498.

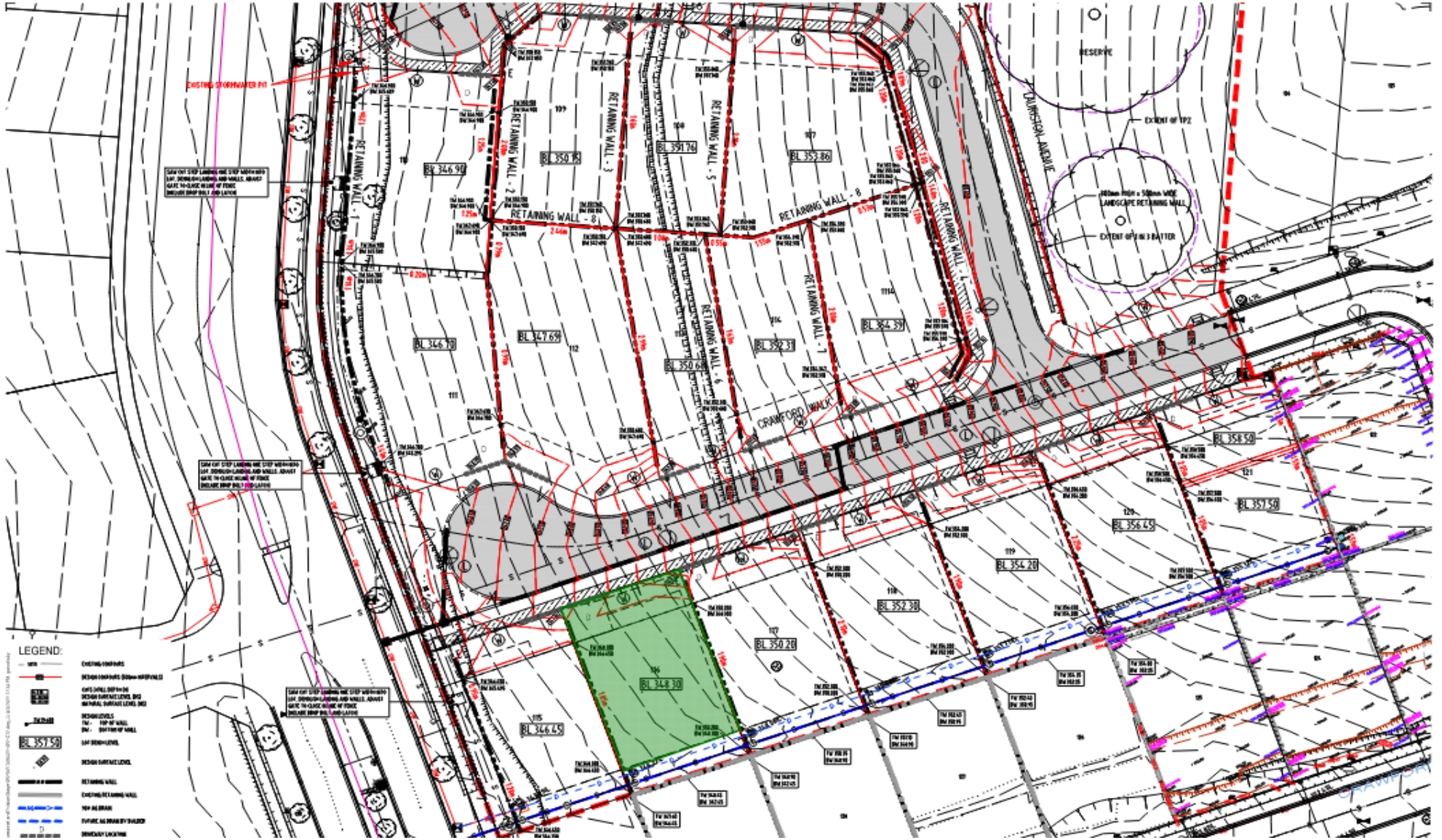
**SMS GEOTECHNICAL PTY LTD**



**Luke Garcia**  
Laboratory Manager

Attachments: Drawing SMS1.22204-F9.Rev0

| Location | Pre Fill | Post Fill |
|----------|----------|-----------|
| Lot 116  | 346.650  | 348.190   |



**LEGEND:**

|  |                                   |
|--|-----------------------------------|
|  | EXISTING CONTOURS                 |
|  | DESIGN CONTOURS (200mm INTERVALS) |
|  | EXISTING WALL                     |
|  | DESIGN CONTOUR (200mm INTERVALS)  |
|  | EXISTING RETAINING WALL           |
|  | DESIGN RETAINING WALL             |
|  | PRE-FILL                          |
|  | POST-FILL                         |
|  | APPROX. FILL LOCATION             |

Approx. Fill Location



|           |     |       |            |
|-----------|-----|-------|------------|
| Drawn:    | LG  | Date: | 12.01.2023 |
| Checked:  | CS  | Date: | 12.01.2023 |
| Revision: |     | Date: |            |
| Scale:    | NTS |       |            |

|   |                    |
|---|--------------------|
| <b>LR&amp;M CONSTRUCTIONS PTY LTD</b>             |                    |
| <b>BLUESTONE STAGE 5B2</b>                        |                    |
| <b>MOUNT BARKER</b>                               |                    |
| <b>SITE PLAN SHOWING PRE AND POST FILL LEVELS</b> |                    |
| Project No.:                                      | SMS1.22204         |
| Drawing No.:                                      | SMS1.22204-F9.Rev0 |

13<sup>th</sup> January 2023

Reference No. SMS1.22204-L8.Rev0

Mr Michael Engelaar  
LR&M Construction Pty Ltd  
6 Roseworthy Road  
ROSEWORTHY SA 5371

**LOT 115 CRAWFORD WALK – BLUESTONE LAND DIVISION STAGE 5B2, MT BARKER**

Dear Michael,

SMS Geotechnical Pty Ltd (SMS) was commissioned by LR&M Construction Pty Ltd (LR&M) to provide Level 1 earthworks inspection and testing services during fill placement on Lot 115 Crawford Walk on the above project in Mt Barker, South Australia. The area where fill was placed is shown approximately in Drawing SMS1.22204-F8.Rev0.

SMS were provided with a TBM by LR&M which was used to measure and record both pre and post fill levels. Post fill levels were taken prior to the placement of topsoil. The post fill levels were measured at approximately the same locations as the pre fill levels. These levels are detailed in Drawing SMS1.22204-F8.Rev0.

Whilst the utmost amount of care was taken while measuring these levels, SMS is not a licensed surveyor and the difference in measurements on Drawing SMS1.22204-F8.Rev0 may differ slightly to the maximum depth of placed fill on this site.

Level 1 inspection and testing services were carried out by SMS to Australian Standard AS3798-2007 "Guidelines on earthworks for commercial and residential developments" between 31<sup>st</sup> March 2022 and 18<sup>th</sup> May 2022. The subgrade was inspected and showed no signs of organic or unsuitable material. Subgrade proof rolling was witnessed prior to fill being placed and was deemed suitable by SMS' representative on site.


SMS conducted in situ density testing to AS1289.5.8.1 at randomly selected locations throughout areas in which fill was placed as per frequencies outlined in AS3798-2007. The density test results have been issued separately to LR&M and are retained in our project file. The required laboratory dry density ratio was achieved on all tests taken during fill placement. Laboratory tests were conducted to AS1289.5.1.1.

On the completion of Level 1 earthworks inspection and testing, SMS advise that the fill placed on Lot 115 Crawford Walk as shown in Drawing SMS1.22204-F8.Rev0, was witnessed and in our opinion meets the requirements of "Controlled Fill" as defined in AS3798-2007 and AS2870-2011 "Residential slabs and footings".

However, it should be recognised that the passage of time affects the information provided in this letter. SMS's opinions are based upon information that existed at the time that our services were provided. The services allowed SMS to form no more than an opinion of the fill placement undertaken under our Level 1 inspection and testing services at the times the earthworks were carried out. These services cannot be used to assess the effect of any subsequent further works at the site.

If you have any questions relating to this project or require any additional information, please contact our office on (08) 8258 7498.

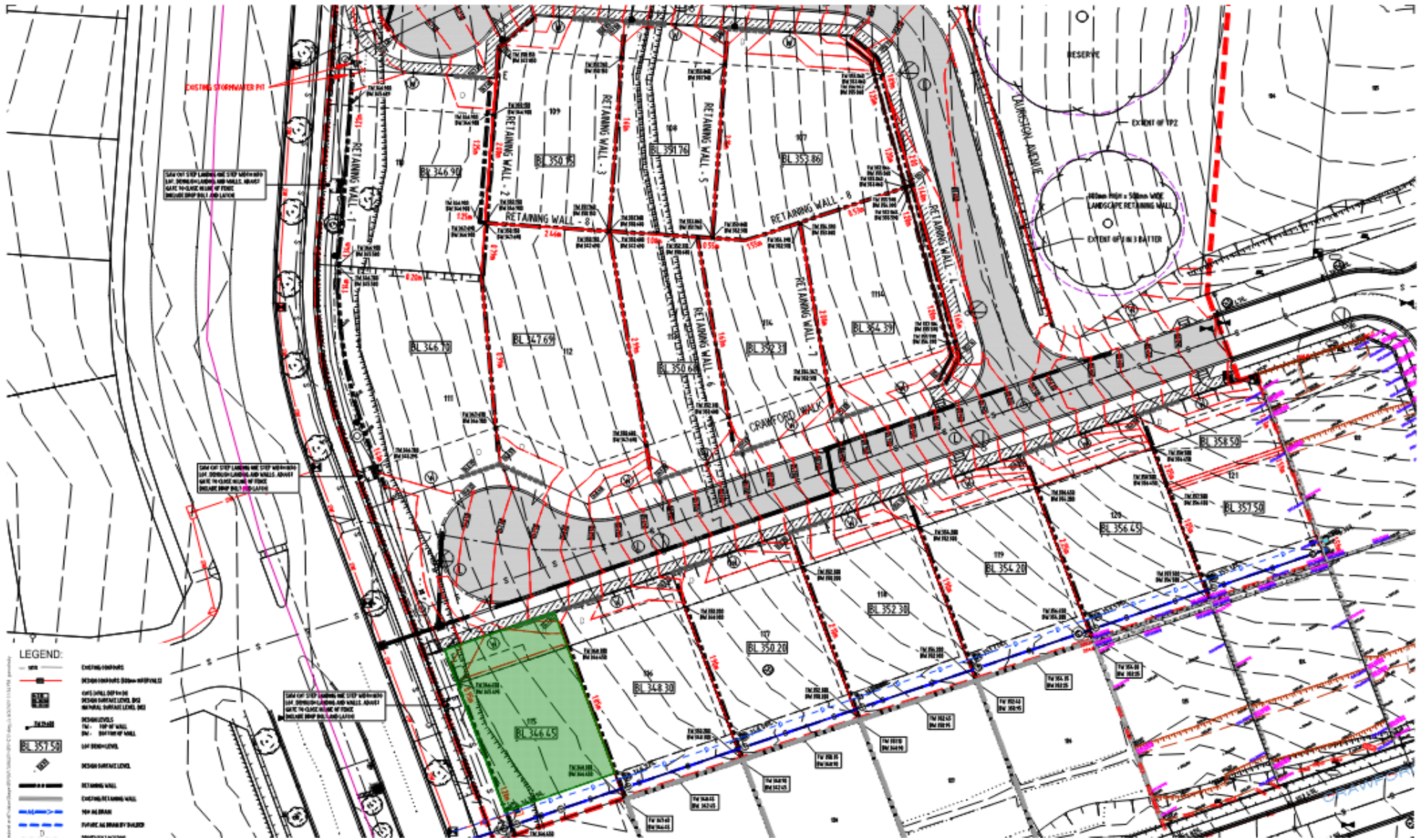
**SMS GEOTECHNICAL PTY LTD**



**Luke Garcia**  
Laboratory Manager

Attachments: Drawing SMS1.22204-F8.Rev0

| Location | Pre Fill | Post Fill |
|----------|----------|-----------|
| Lot 115  | 346.220  | 346.340   |



Approx. Fill Location

**SMS**  
**GEOTECHNICAL**  
*Quality in Construction*

|           |     |       |            |
|-----------|-----|-------|------------|
| Drawn:    | LG  | Date: | 12.01.2023 |
| Checked:  | CS  | Date: | 12.01.2023 |
| Revision: |     | Date: |            |
| Scale:    | NTS |       | A4         |

|   |  |              |                    |
|---|--|--------------|--------------------|
| <b>LR&amp;M CONSTRUCTIONS PTY LTD</b><br><b>BLUESTONE STAGE 5B2</b><br><b>MOUNT BARKER</b><br><b>SITE PLAN SHOWING PRE AND POST FILL LEVELS</b> |  |              |                    |
|   |  | Project No.: | SMS1.22204         |
|   |  | Drawing No.: | SMS1.22204-F8.Rev0 |



13<sup>th</sup> January 2023

Reference No. SMS1.22204-L7.Rev0

Mr Michael Engelaar  
LR&M Construction Pty Ltd  
6 Roseworthy Road  
ROSEWORTHY SA 5371

**LOT 114 CRAWFORD WALK – BLUESTONE LAND DIVISION STAGE 5B2, MT BARKER**

Dear Michael,

SMS Geotechnical Pty Ltd (SMS) was commissioned by LR&M Construction Pty Ltd (LR&M) to provide Level 1 earthworks inspection and testing services during fill placement on Lot 114 Crawford Walk on the above project in Mt Barker, South Australia. The area where fill was placed is shown approximately in Drawing SMS1.22204-F7.Rev0.

SMS were provided with a TBM by LR&M which was used to measure and record both pre and post fill levels. Post fill levels were taken prior to the placement of topsoil. The post fill levels were measured at approximately the same locations as the pre fill levels. These levels are detailed in Drawing SMS1.22204-F7.Rev0.

Whilst the utmost amount of care was taken while measuring these levels, SMS is not a licensed surveyor and the difference in measurements on Drawing SMS1.22204-F7.Rev0 may differ slightly to the maximum depth of placed fill on this site.

Level 1 inspection and testing services were carried out by SMS to Australian Standard AS3798-2007 "Guidelines on earthworks for commercial and residential developments" between 31<sup>st</sup> March 2022 and 18<sup>th</sup> May 2022. The subgrade was inspected and showed no signs of organic or unsuitable material. Subgrade proof rolling was witnessed prior to fill being placed and was deemed suitable by SMS' representative on site.


SMS conducted in situ density testing to AS1289.5.8.1 at randomly selected locations throughout areas in which fill was placed as per frequencies outlined in AS3798-2007. The density test results have been issued separately to LR&M and are retained in our project file. The required laboratory dry density ratio was achieved on all tests taken during fill placement. Laboratory tests were conducted to AS1289.5.1.1.

On the completion of Level 1 earthworks inspection and testing, SMS advise that the fill placed on Lot 114 Crawford Walk as shown in Drawing SMS1.22204-F7.Rev0, was witnessed and in our opinion meets the requirements of "Controlled Fill" as defined in AS3798-2007 and AS2870-2011 "Residential slabs and footings".

However, it should be recognised that the passage of time affects the information provided in this letter. SMS's opinions are based upon information that existed at the time that our services were provided. The services allowed SMS to form no more than an opinion of the fill placement undertaken under our Level 1 inspection and testing services at the times the earthworks were carried out. These services cannot be used to assess the effect of any subsequent further works at the site.

If you have any questions relating to this project or require any additional information, please contact our office on (08) 8258 7498.

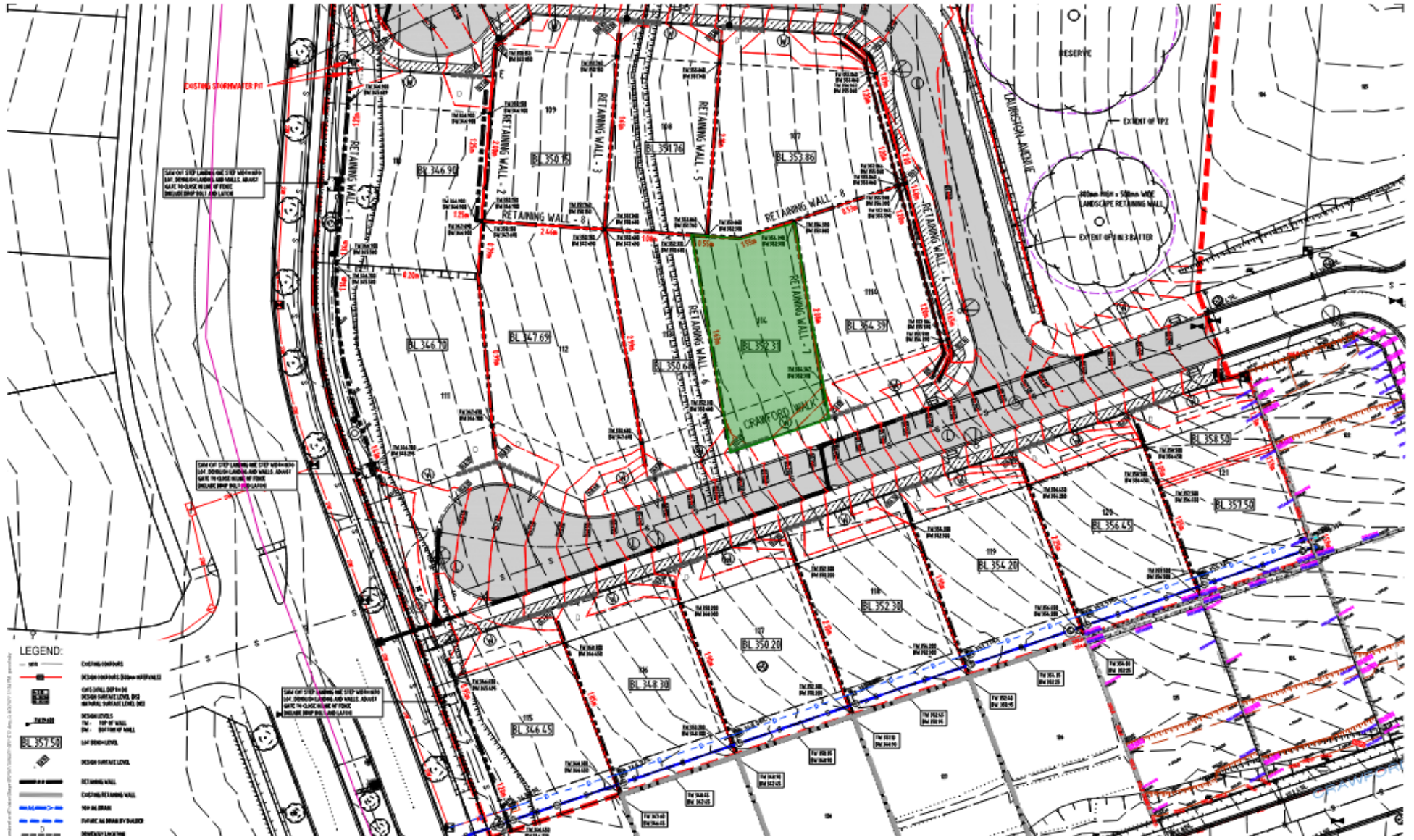
**SMS GEOTECHNICAL PTY LTD**



**Luke Garcia**  
Laboratory Manager

Attachments: Drawing SMS1.22204-F7.Rev0

| Location | Pre Fill | Post Fill |
|----------|----------|-----------|
| Lot 114  | 351.970  | 352.200   |



**LEGEND:**

|  |   |
|--|---|
|  | EXISTING CONTOURS                       |
|  | DESIGN CONTOURS 200mm HORIZONTAL        |
|  | OPEN SLOPE FOR PRE AND POST FILL        |
|  | DESIGN SURFACE LEVEL, PRE AND POST FILL |
|  | DESIGN LEVELS                           |
|  | TOP OF WALL                             |
|  | TOP OF WALK                             |
|  | TOP OF DRIVE                            |
|  | DESIGN FINISH LEVEL                     |
|  | RETAINING WALL                          |
|  | EXISTING RETAINING WALL                 |
|  | TOP OF DRIVE                            |
|  | POSTURE AS DRAWN BY ENGINEER            |
|  | DRIVEWAY LINING                         |

Approx. Fill Location

**SMS**  
**GEOTECHNICAL**  
*Quality in Construction*

|           |     |       |            |
|-----------|-----|-------|------------|
| Drawn:    | LG  | Date: | 12.01.2023 |
| Checked:  | CS  | Date: | 12.01.2023 |
| Revision: |     | Date: |            |
| Scale:    | NTS |       | A4         |

|   |                    |
|---|--------------------|
| <b>LR&amp;M CONSTRUCTIONS PTY LTD</b>             |                    |
| <b>BLUESTONE STAGE 5B2</b>                        |                    |
| <b>MOUNT BARKER</b>                               |                    |
| <b>SITE PLAN SHOWING PRE AND POST FILL LEVELS</b> |                    |
| Project No.:                                      | SMS1.22204         |
| Drawing No.:                                      | SMS1.22204-F7.Rev0 |

13<sup>th</sup> January 2023

Reference No. SMS1.22204-L6.Rev0

Mr Michael Engelaar  
LR&M Construction Pty Ltd  
6 Roseworthy Road  
ROSEWORTHY SA 5371

**LOT 113 CRAWFORD WALK – BLUESTONE LAND DIVISION STAGE 5B2, MT BARKER**

Dear Michael,

SMS Geotechnical Pty Ltd (SMS) was commissioned by LR&M Construction Pty Ltd (LR&M) to provide Level 1 earthworks inspection and testing services during fill placement on Lot 113 Crawford Walk on the above project in Mt Barker, South Australia. The area where fill was placed is shown approximately in Drawing SMS1.22204-F6.Rev0.

SMS were provided with a TBM by LR&M which was used to measure and record both pre and post fill levels. Post fill levels were taken prior to the placement of topsoil. The post fill levels were measured at approximately the same locations as the pre fill levels. These levels are detailed in Drawing SMS1.22204-F6.Rev0.

Whilst the utmost amount of care was taken while measuring these levels, SMS is not a licensed surveyor and the difference in measurements on Drawing SMS1.22204-F6.Rev0 may differ slightly to the maximum depth of placed fill on this site.

Level 1 inspection and testing services were carried out by SMS to Australian Standard AS3798-2007 "Guidelines on earthworks for commercial and residential developments" between 31<sup>st</sup> March 2022 and 18<sup>th</sup> May 2022. The subgrade was inspected and showed no signs of organic or unsuitable material. Subgrade proof rolling was witnessed prior to fill being placed and was deemed suitable by SMS' representative on site.


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On the completion of Level 1 earthworks inspection and testing, SMS advise that the fill placed on Lot 113 Crawford Walk as shown in Drawing SMS1.22204-F6.Rev0, was witnessed and in our opinion meets the requirements of "Controlled Fill" as defined in AS3798-2007 and AS2870-2011 "Residential slabs and footings".

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If you have any questions relating to this project or require any additional information, please contact our office on (08) 8258 7498.

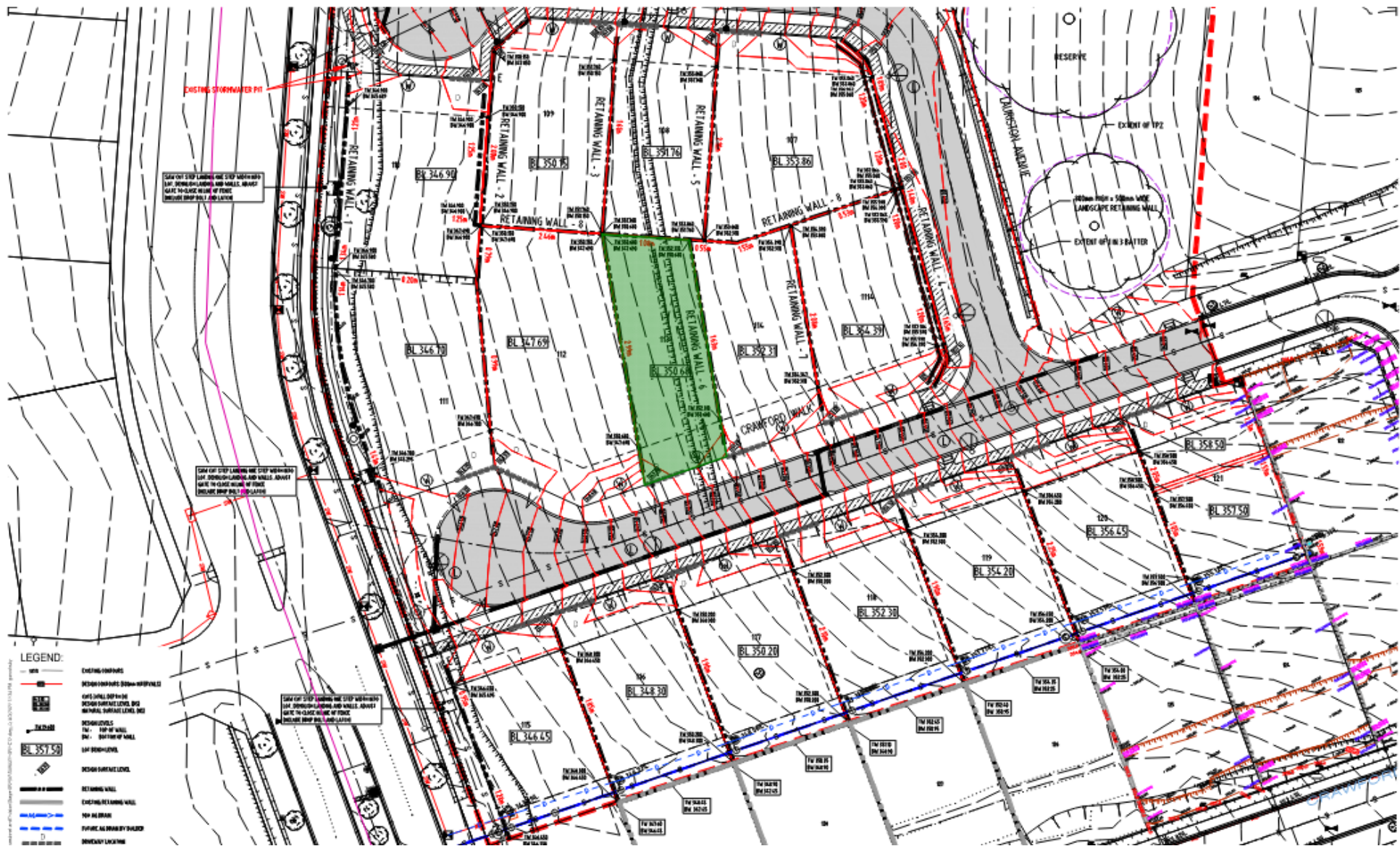
**SMS GEOTECHNICAL PTY LTD**




**Luke Garcia**  
Laboratory Manager

Attachments: Drawing SMS1.22204-F6.Rev0

| Location | Pre Fill | Post Fill |
|----------|----------|-----------|
| Lot 113  | 350.320  | 350.570   |



 Approx. Fill Location



|           |     |       |            |
|-----------|-----|-------|------------|
| Drawn:    | LG  | Date: | 12.01.2023 |
| Checked:  | CS  | Date: | 12.01.2023 |
| Revision: |     | Date: |            |
| Scale:    | NTS |       | A4         |

|   |  |              |                    |
|---|--|--------------|--------------------|
| <b>LR&amp;M CONSTRUCTIONS PTY LTD</b><br><b>BLUESTONE STAGE 5B2</b><br><b>MOUNT BARKER</b><br><b>SITE PLAN SHOWING PRE AND POST FILL LEVELS</b> |  |              |                    |
|   |  | Project No.: | SMS1.22204         |
|   |  | Drawing No.: | SMS1.22204-F6.Rev0 |

13<sup>th</sup> January 2023

Reference No. SMS1.22204-L5.Rev0

Mr Michael Engelaar  
LR&M Construction Pty Ltd  
6 Roseworthy Road  
ROSEWORTHY SA 5371

**LOT 111 CRAWFORD WALK – BLUESTONE LAND DIVISION STAGE 5B2, MT BARKER**

Dear Michael,

SMS Geotechnical Pty Ltd (SMS) was commissioned by LR&M Construction Pty Ltd (LR&M) to provide Level 1 earthworks inspection and testing services during fill placement on Lot 111 Crawford Walk on the above project in Mt Barker, South Australia. The area where fill was placed is shown approximately in Drawing SMS1.22204-F5.Rev0.

SMS were provided with a TBM by LR&M which was used to measure and record both pre and post fill levels. Post fill levels were taken prior to the placement of topsoil. The post fill levels were measured at approximately the same locations as the pre fill levels. These levels are detailed in Drawing SMS1.22204-F5.Rev0.

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Level 1 inspection and testing services were carried out by SMS to Australian Standard AS3798-2007 "Guidelines on earthworks for commercial and residential developments" between 31<sup>st</sup> March 2022 and 18<sup>th</sup> May 2022. The subgrade was inspected and showed no signs of organic or unsuitable material. Subgrade proof rolling was witnessed prior to fill being placed and was deemed suitable by SMS' representative on site.


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On the completion of Level 1 earthworks inspection and testing, SMS advise that the fill placed on Lot 111 Crawford Walk as shown in Drawing SMS1.22204-F5.Rev0, was witnessed and in our opinion meets the requirements of "Controlled Fill" as defined in AS3798-2007 and AS2870-2011 "Residential slabs and footings".

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If you have any questions relating to this project or require any additional information, please contact our office on (08) 8258 7498.

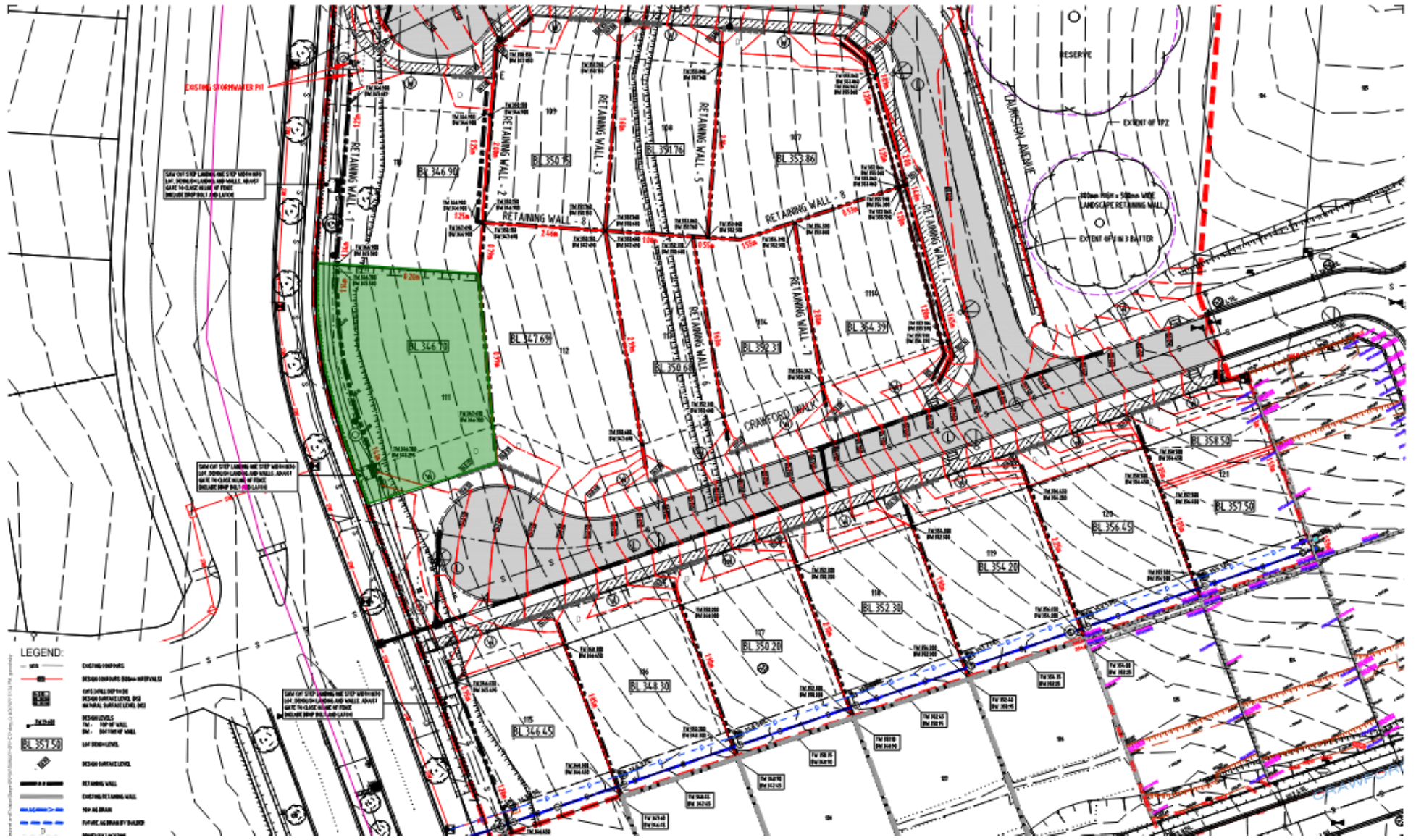
**SMS GEOTECHNICAL PTY LTD**



**Luke Garcia**  
Laboratory Manager


Attachments: Drawing SMS1.22204-F5.Rev0

| Location | Pre Fill | Post Fill |
|----------|----------|-----------|
| Lot 111  | 345.500  | 346.680   |



**LEGEND:**

- EXISTING BOUNDARY
- PROPOSED BOUNDARY
- EXISTING SURFACE LEVEL
- PROPOSED SURFACE LEVEL
- RETAINING WALL
- EXISTING RETAINING WALL
- TOP OF ROAD
- EXISTING ROADWAY

 Approx. Fill Location

**SMS**  
**GEOTECHNICAL**  
*Quality in Construction*

|           |     |       |            |
|-----------|-----|-------|------------|
| Drawn:    | LG  | Date: | 12.01.2023 |
| Checked:  | CS  | Date: | 12.01.2023 |
| Revision: |     | Date: |            |
| Scale:    | NTS |       | A4         |

**LR&M CONSTRUCTIONS PTY LTD**  
**BLUESTONE STAGE 5B2**  
**MOUNT BARKER**  
**SITE PLAN SHOWING PRE AND POST FILL LEVELS**

Project No.: **SMS1.22204**      Drawing No.: **SMS1.22204-F5.Rev0**

13<sup>th</sup> January 2023

Reference No. SMS1.22204-L4.Rev0

Mr Michael Engelaar  
LR&M Construction Pty Ltd  
6 Roseworthy Road  
ROSEWORTHY SA 5371

**LOT 110 LAURISTON AVENUE – BLUESTONE LAND DIVISION STAGE 5B2, MT BARKER**

Dear Michael,

SMS Geotechnical Pty Ltd (SMS) was commissioned by LR&M Construction Pty Ltd (LR&M) to provide Level 1 earthworks inspection and testing services during fill placement on Lot 110 Lauriston Avenue on the above project in Mt Barker, South Australia. The area where fill was placed is shown approximately in Drawing SMS1.22204-F4.Rev0.

SMS were provided with a TBM by LR&M which was used to measure and record both pre and post fill levels. Post fill levels were taken prior to the placement of topsoil. The post fill levels were measured at approximately the same locations as the pre fill levels. These levels are detailed in Drawing SMS1.22204-F4.Rev0.

Whilst the utmost amount of care was taken while measuring these levels, SMS is not a licensed surveyor and the difference in measurements on Drawing SMS1.22204-F4.Rev0 may differ slightly to the maximum depth of placed fill on this site.

Level 1 inspection and testing services were carried out by SMS to Australian Standard AS3798-2007 "Guidelines on earthworks for commercial and residential developments" between 31<sup>st</sup> March 2022 and 18<sup>th</sup> May 2022. The subgrade was inspected and showed no signs of organic or unsuitable material. Subgrade proof rolling was witnessed prior to fill being placed and was deemed suitable by SMS' representative on site.


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On the completion of Level 1 earthworks inspection and testing, SMS advise that the fill placed on Lot 110 Lauriston Avenue as shown in Drawing SMS1.22204-F4.Rev0, was witnessed and in our opinion meets the requirements of "Controlled Fill" as defined in AS3798-2007 and AS2870-2011 "Residential slabs and footings".

However, it should be recognised that the passage of time affects the information provided in this letter. SMS's opinions are based upon information that existed at the time that our services were provided. The services allowed SMS to form no more than an opinion of the fill placement undertaken under our Level 1 inspection and testing services at the times the earthworks were carried out. These services cannot be used to assess the effect of any subsequent further works at the site.

If you have any questions relating to this project or require any additional information, please contact our office on (08) 8258 7498.

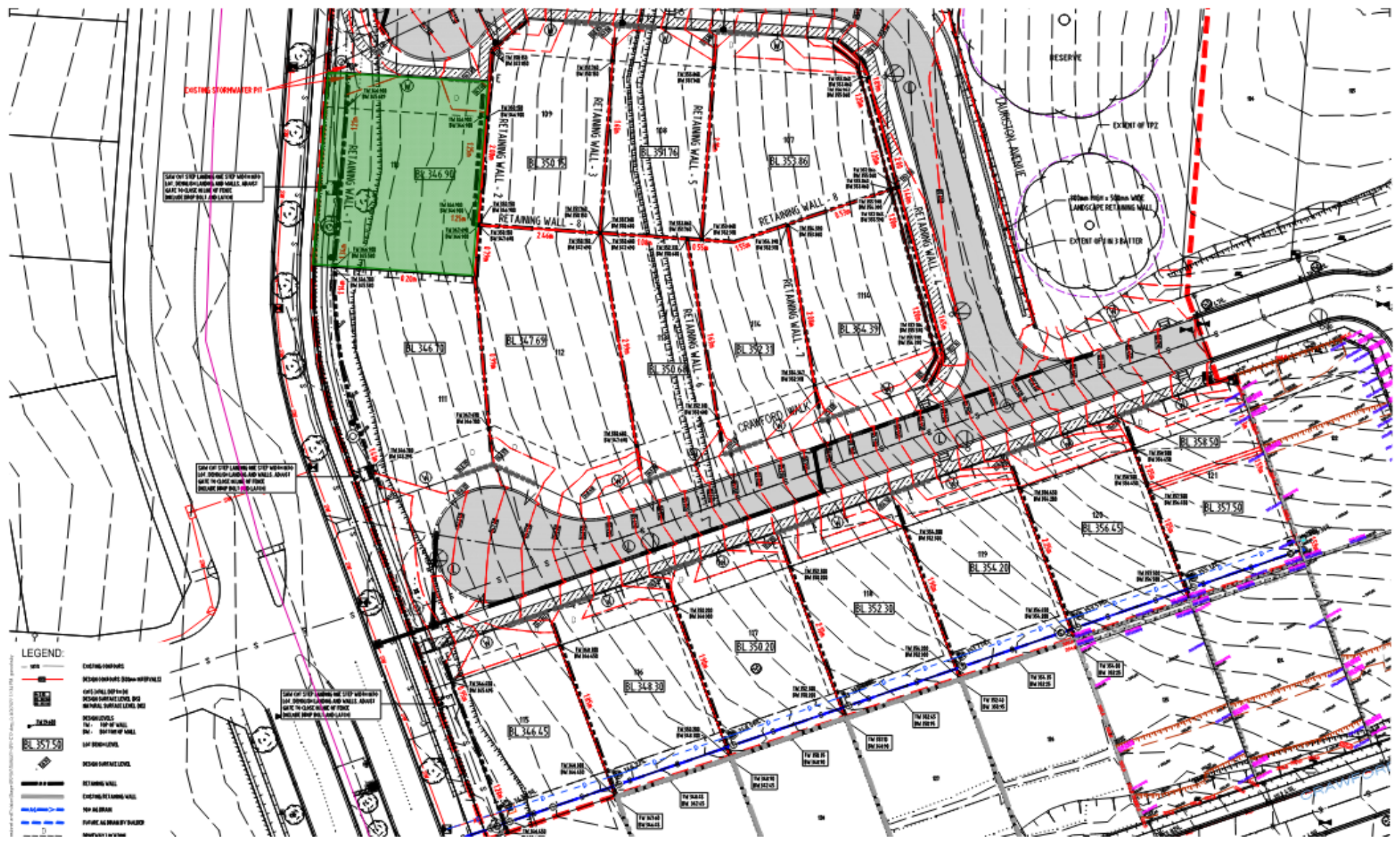
**SMS GEOTECHNICAL PTY LTD**



**Luke Garcia**  
Laboratory Manager

Attachments: Drawing SMS1.22204-F4.Rev0

| Location | Pre Fill | Post Fill |
|----------|----------|-----------|
| Lot 110  | 346.440  | 346.890   |



**LEGEND:**

|  |                               |
|--|-------------------------------|
|  | EXISTING FOOTINGS             |
|  | DESIGN FOOTINGS 300mm MINIMUM |
|  | APPROX. FILL LOCATION         |
|  | EXISTING RETAINING WALL       |
|  | DESIGN RETAINING WALL         |
|  | EXISTING LANDSCAPE            |
|  | DESIGN LANDSCAPE              |
|  | EXISTING DRIVEWAY             |
|  | DESIGN DRIVEWAY               |
|  | EXISTING SIDEWALK             |
|  | DESIGN SIDEWALK               |
|  | EXISTING CURB                 |
|  | DESIGN CURB                   |
|  | EXISTING ROAD                 |
|  | DESIGN ROAD                   |
|  | EXISTING DRIVE                |
|  | DESIGN DRIVE                  |
|  | EXISTING ALLEY                |
|  | DESIGN ALLEY                  |
|  | EXISTING FENCE                |
|  | DESIGN FENCE                  |
|  | EXISTING UTILITY              |
|  | DESIGN UTILITY                |
|  | EXISTING POWER                |
|  | DESIGN POWER                  |
|  | EXISTING WATER                |
|  | DESIGN WATER                  |
|  | EXISTING GAS                  |
|  | DESIGN GAS                    |
|  | EXISTING TELEPHONE            |
|  | DESIGN TELEPHONE              |
|  | EXISTING CABLE                |
|  | DESIGN CABLE                  |
|  | EXISTING OTHER                |
|  | DESIGN OTHER                  |

Approx. Fill Location



|           |     |       |            |
|-----------|-----|-------|------------|
| Drawn:    | LG  | Date: | 12.01.2023 |
| Checked:  | CS  | Date: | 12.01.2023 |
| Revision: |     | Date: |            |
| Scale:    | NTS |       |            |

**LR&M CONSTRUCTIONS PTY LTD**  
**BLUESTONE STAGE 5B2**  
**MOUNT BARKER**  
**SITE PLAN SHOWING PRE AND POST FILL LEVELS**

|              |            |              |                    |
|--------------|------------|--------------|--------------------|
| Project No.: | SMS1.22204 | Drawing No.: | SMS1.22204-F4.Rev0 |
|--------------|------------|--------------|--------------------|



13<sup>th</sup> January 2023

Reference No. SMS1.22204-L3.Rev0

Mr Michael Engelaar  
LR&M Construction Pty Ltd  
6 Roseworthy Road  
ROSEWORTHY SA 5371

**LOT 109 LAURISTON AVENUE – BLUESTONE LAND DIVISION STAGE 5B2, MT BARKER**

Dear Michael,

SMS Geotechnical Pty Ltd (SMS) was commissioned by LR&M Construction Pty Ltd (LR&M) to provide Level 1 earthworks inspection and testing services during fill placement on Lot 109 Lauriston Avenue on the above project in Mt Barker, South Australia. The area where fill was placed is shown approximately in Drawing SMS1.22204-F3.Rev0.

SMS were provided with a TBM by LR&M which was used to measure and record both pre and post fill levels. Post fill levels were taken prior to the placement of topsoil. The post fill levels were measured at approximately the same locations as the pre fill levels. These levels are detailed in Drawing SMS1.22204-F3.Rev0.

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Level 1 inspection and testing services were carried out by SMS to Australian Standard AS3798-2007 "Guidelines on earthworks for commercial and residential developments" between 31<sup>st</sup> March 2022 and 18<sup>th</sup> May 2022. The subgrade was inspected and showed no signs of organic or unsuitable material. Subgrade proof rolling was witnessed prior to fill being placed and was deemed suitable by SMS' representative on site.


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On the completion of Level 1 earthworks inspection and testing, SMS advise that the fill placed on Lot 109 Lauriston Avenue as shown in Drawing SMS1.22204-F3.Rev0, was witnessed and in our opinion meets the requirements of "Controlled Fill" as defined in AS3798-2007 and AS2870-2011 "Residential slabs and footings".

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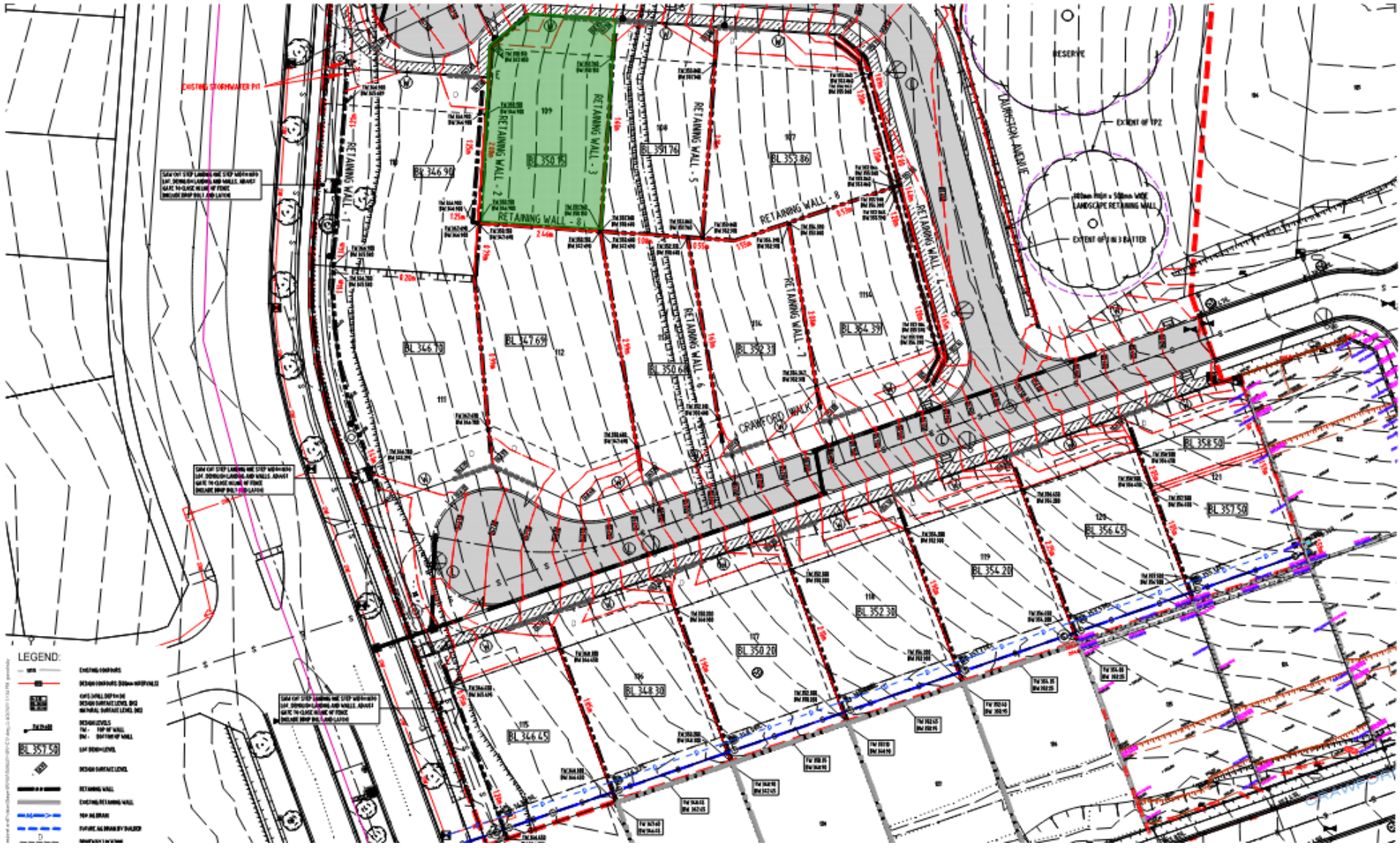
**SMS GEOTECHNICAL PTY LTD**




**Luke Garcia**  
Laboratory Manager

Attachments: Drawing SMS1.22204-F3.Rev0

| Location | Pre Fill | Post Fill |
|----------|----------|-----------|
| Lot 109  | 349.830  | 350.080   |



 Approx. Fill Location



|           |     |       |            |
|-----------|-----|-------|------------|
| Drawn:    | LG  | Date: | 12.01.2023 |
| Checked:  | CS  | Date: | 12.01.2023 |
| Revision: |     | Date: |            |
| Scale:    | NTS |       | A4         |

|   |                    |
|---|--------------------|
| <b>LR&amp;M CONSTRUCTIONS PTY LTD</b>             |                    |
| <b>BLUESTONE STAGE 5B2</b>                        |                    |
| <b>MOUNT BARKER</b>                               |                    |
| <b>SITE PLAN SHOWING PRE AND POST FILL LEVELS</b> |                    |
| Project No.:                                      | SMS1.22204         |
| Drawing No.:                                      | SMS1.22204-F3.Rev0 |

13<sup>th</sup> January 2023

Reference No. SMS1.22204-L2.Rev0

Mr Michael Engelaar  
LR&M Construction Pty Ltd  
6 Roseworthy Road  
ROSEWORTHY SA 5371

**LOT 108 LAURISTON AVENUE – BLUESTONE LAND DIVISION STAGE 5B2, MT BARKER**

Dear Michael,

SMS Geotechnical Pty Ltd (SMS) was commissioned by LR&M Construction Pty Ltd (LR&M) to provide Level 1 earthworks inspection and testing services during fill placement on Lot 108 Lauriston Avenue on the above project in Mt Barker, South Australia. The area where fill was placed is shown approximately in Drawing SMS1.22204-F2.Rev0.

SMS were provided with a TBM by LR&M which was used to measure and record both pre and post fill levels. Post fill levels were taken prior to the placement of topsoil. The post fill levels were measured at approximately the same locations as the pre fill levels. These levels are detailed in Drawing SMS1.22204-F2.Rev0.

Whilst the utmost amount of care was taken while measuring these levels, SMS is not a licensed surveyor and the difference in measurements on Drawing SMS1.22204-F2.Rev0 may differ slightly to the maximum depth of placed fill on this site.

Level 1 inspection and testing services were carried out by SMS to Australian Standard AS3798-2007 "Guidelines on earthworks for commercial and residential developments" between 31<sup>st</sup> March 2022 and 18<sup>th</sup> May 2022. The subgrade was inspected and showed no signs of organic or unsuitable material. Subgrade proof rolling was witnessed prior to fill being placed and was deemed suitable by SMS' representative on site.


SMS conducted in situ density testing to AS1289.5.8.1 at randomly selected locations throughout areas in which fill was placed as per frequencies outlined in AS3798-2007. The density test results have been issued separately to LR&M and are retained in our project file. The required laboratory dry density ratio was achieved on all tests taken during fill placement. Laboratory tests were conducted to AS1289.5.1.1.

On the completion of Level 1 earthworks inspection and testing, SMS advise that the fill placed on Lot 108 Lauriston Avenue as shown in Drawing SMS1.22204-F2.Rev0, was witnessed and in our opinion meets the requirements of "Controlled Fill" as defined in AS3798-2007 and AS2870-2011 "Residential slabs and footings".

However, it should be recognised that the passage of time affects the information provided in this letter. SMS's opinions are based upon information that existed at the time that our services were provided. The services allowed SMS to form no more than an opinion of the fill placement undertaken under our Level 1 inspection and testing services at the times the earthworks were carried out. These services cannot be used to assess the effect of any subsequent further works at the site.

If you have any questions relating to this project or require any additional information, please contact our office on (08) 8258 7498.

**SMS GEOTECHNICAL PTY LTD**



**Luke Garcia**  
Laboratory Manager

Attachments: Drawing SMS1.22204-F2.Rev0

| Location | Pre Fill | Post Fill |
|----------|----------|-----------|
| Lot 108  | 351.480  | 351.710   |



- LEGEND:**
- EXISTING CONTOUR
  - DESIGN CONTOUR (20m INTERVAL)
  - EXISTING SURFACE LEVEL, 20m INTERVAL
  - DESIGN SURFACE LEVEL, 20m INTERVAL
  - EXISTING RETAINING WALL
  - DESIGN RETAINING WALL
  - EXISTING DRAINAGE PI
  - DESIGN DRAINAGE PI
  - EXISTING 1:1 BATTER
  - DESIGN 1:1 BATTER
  - APPROX. FILL LOCATION

Approx. Fill Location



|           |     |       |            |
|-----------|-----|-------|------------|
| Drawn:    | LG  | Date: | 12.01.2023 |
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|---|--------------------|
| <b>LR&amp;M CONSTRUCTIONS PTY LTD</b>             |                    |
| <b>BLUESTONE STAGE 5B2</b>                        |                    |
| <b>MOUNT BARKER</b>                               |                    |
| <b>SITE PLAN SHOWING PRE AND POST FILL LEVELS</b> |                    |
| Project No.:                                      | SMS1.22204         |
| Drawing No.:                                      | SMS1.22204-F2.Rev0 |

13<sup>th</sup> January 2023

Reference No. SMS1.22204-L1.Rev0

Mr Michael Engelaar  
LR&M Construction Pty Ltd  
6 Roseworthy Road  
ROSEWORTHY SA 5371

**LOT 107 LAURISTON AVENUE – BLUESTONE LAND DIVISION STAGE 5B2, MT BARKER**

Dear Michael,

SMS Geotechnical Pty Ltd (SMS) was commissioned by LR&M Construction Pty Ltd (LR&M) to provide Level 1 earthworks inspection and testing services during fill placement on Lot 107 Lauriston Avenue on the above project in Mt Barker, South Australia. The area where fill was placed is shown approximately in Drawing SMS1.22204-F1.Rev0.

SMS were provided with a TBM by LR&M which was used to measure and record both pre and post fill levels. Post fill levels were taken prior to the placement of topsoil. The post fill levels were measured at approximately the same locations as the pre fill levels. These levels are detailed in Drawing SMS1.22204-F1.Rev0.

Whilst the utmost amount of care was taken while measuring these levels, SMS is not a licensed surveyor and the difference in measurements on Drawing SMS1.22204-F1.Rev0 may differ slightly to the maximum depth of placed fill on this site.

Level 1 inspection and testing services were carried out by SMS to Australian Standard AS3798-2007 "Guidelines on earthworks for commercial and residential developments" between 31<sup>st</sup> March 2022 and 18<sup>th</sup> May 2022. The subgrade was inspected and showed no signs of organic or unsuitable material. Subgrade proof rolling was witnessed prior to fill being placed and was deemed suitable by SMS' representative on site.


SMS conducted in situ density testing to AS1289.5.8.1 at randomly selected locations throughout areas in which fill was placed as per frequencies outlined in AS3798-2007. The density test results have been issued separately to LR&M and are retained in our project file. The required laboratory dry density ratio was achieved on all tests taken during fill placement. Laboratory tests were conducted to AS1289.5.1.1.

On the completion of Level 1 earthworks inspection and testing, SMS advise that the fill placed on Lot 107 Lauriston Avenue as shown in Drawing SMS1.22204-F1.Rev0, was witnessed and in our opinion meets the requirements of "Controlled Fill" as defined in AS3798-2007 and AS2870-2011 "Residential slabs and footings".

However, it should be recognised that the passage of time affects the information provided in this letter. SMS's opinions are based upon information that existed at the time that our services were provided. The services allowed SMS to form no more than an opinion of the fill placement undertaken under our Level 1 inspection and testing services at the times the earthworks were carried out. These services cannot be used to assess the effect of any subsequent further works at the site.

If you have any questions relating to this project or require any additional information, please contact our office on (08) 8258 7498.

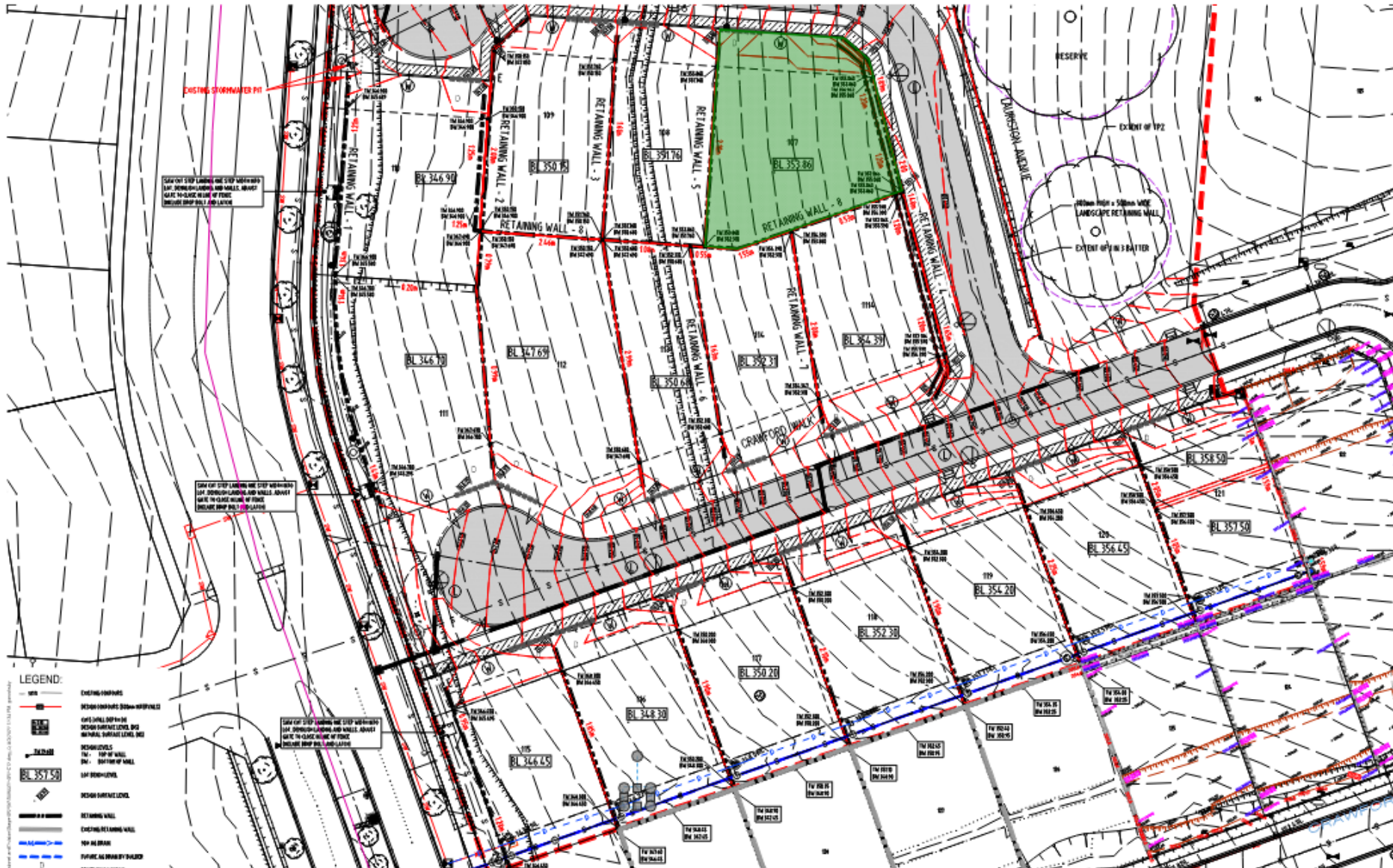
**SMS GEOTECHNICAL PTY LTD**



**Luke Garcia**  
Laboratory Manager

Attachments: Drawing SMS1.22204-F1.Rev0

| Location | Pre Fill | Post Fill |
|----------|----------|-----------|
| Lot 107  | 353.400  | 353.820   |



**LEGEND:**

|                 |                                 |
|-----------------|---------------------------------|
| [Dashed Line]   | EXISTING CONTOURS               |
| [Solid Line]    | PROPOSED CONTOURS (DOWN SLOPES) |
| [Green Area]    | APPROX. FILL LOCATION           |
| [Hatched Area]  | RETAINING WALL                  |
| [Dotted Line]   | EXISTING RETAINING WALL         |
| [Blue Line]     | TOP OF WALL                     |
| [Red Line]      | BOTTOM OF WALL                  |
| [Black Line]    | LEVEL                           |
| [Grey Area]     | RESERVE                         |
| [Purple Circle] | EXISTING STORMWATER PIT         |

Approx. Fill Location



|           |     |       |            |
|-----------|-----|-------|------------|
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**LR&M CONSTRUCTIONS PTY LTD**  
**BLUESTONE STAGE 5B2**  
**MOUNT BARKER**  
**SITE PLAN SHOWING PRE AND POST FILL LEVELS**

|              |            |              |                    |
|--------------|------------|--------------|--------------------|
| Project No.: | SMS1.22204 | Drawing No.: | SMS1.22204-F1.Rev0 |
|--------------|------------|--------------|--------------------|