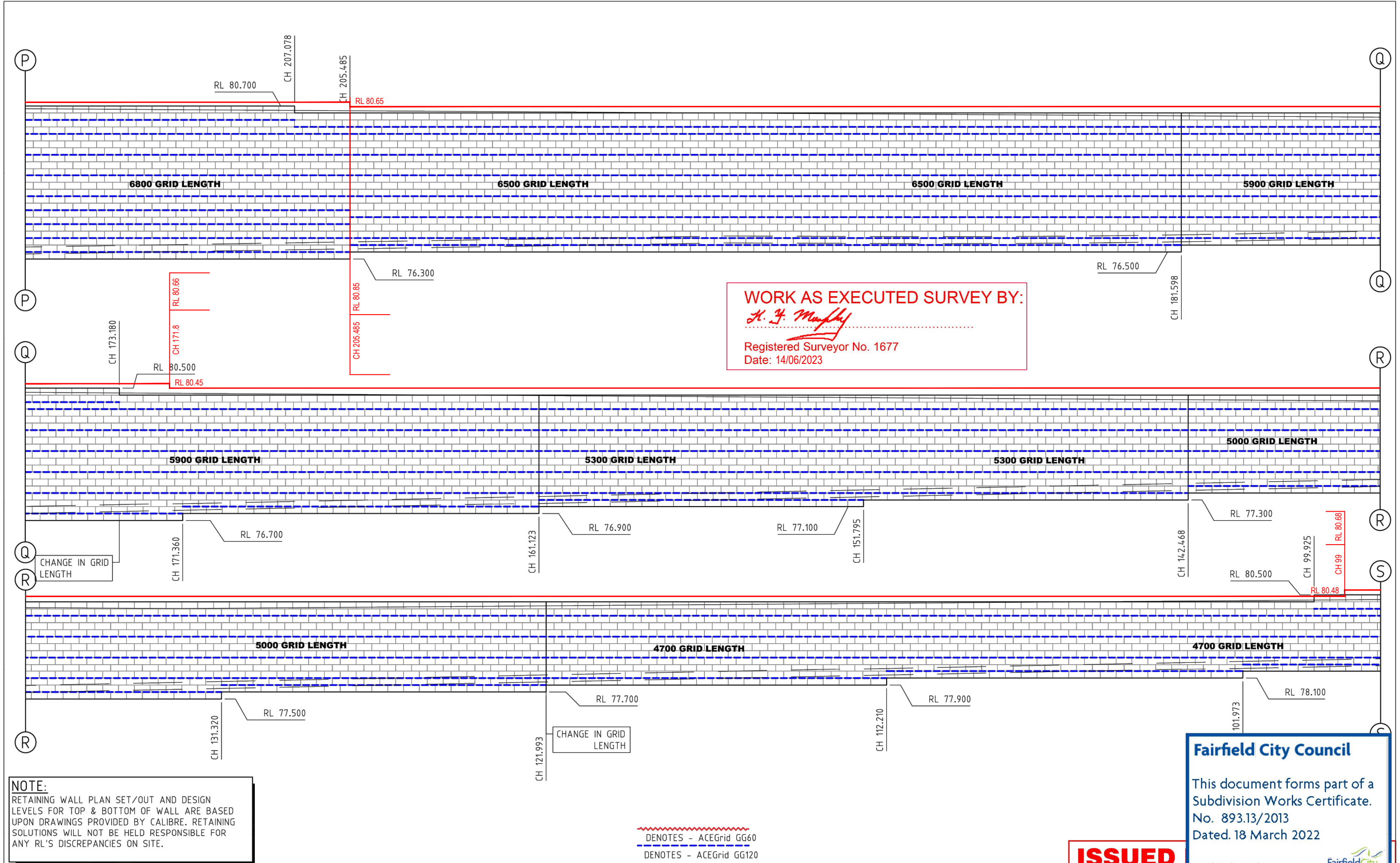




NOTE:
RETAINING WALL PLAN SET/OUT AND DESIGN LEVELS FOR TOP & BOTTOM OF WALL ARE BASED UPON DRAWINGS PROVIDED BY CALIBRE. RETAINING SOLUTIONS WILL NOT BE HELD RESPONSIBLE FOR ANY RL'S DISCREPANCIES ON SITE.

REV	REVISION DESCRIPTION	DRAWN	DESIGNED	APPROVED	DATE
1	ELEVATION CHANGES	BB	PW		21-02-22
0	FOR APPROVAL PURPOSES	BB	PW		14-07-21

ABN 16 103 223 721
PHONE (02)9899 2111 FACSIMILE (02)9899 2112
SYDNEY AUSTRALIA

**ENGINEERING DESIGN SERVICES FOR ALL
TYPE OF RETAINING STRUCTURES**
GABIONS, TERRAMESH, CRIB WALLS, SEGMENTAL WALLS
AND REINFORCED SOIL STRUCTURES

2m 0 2 4 6
SCALE 1:100 (A3)

PROJECT TITLE
CSR STAGE 3

CLIENT/DEVELOPER
MULGOA QUARRIES

RW01 - REAR ELEVATION
SHEET 9 OF 10

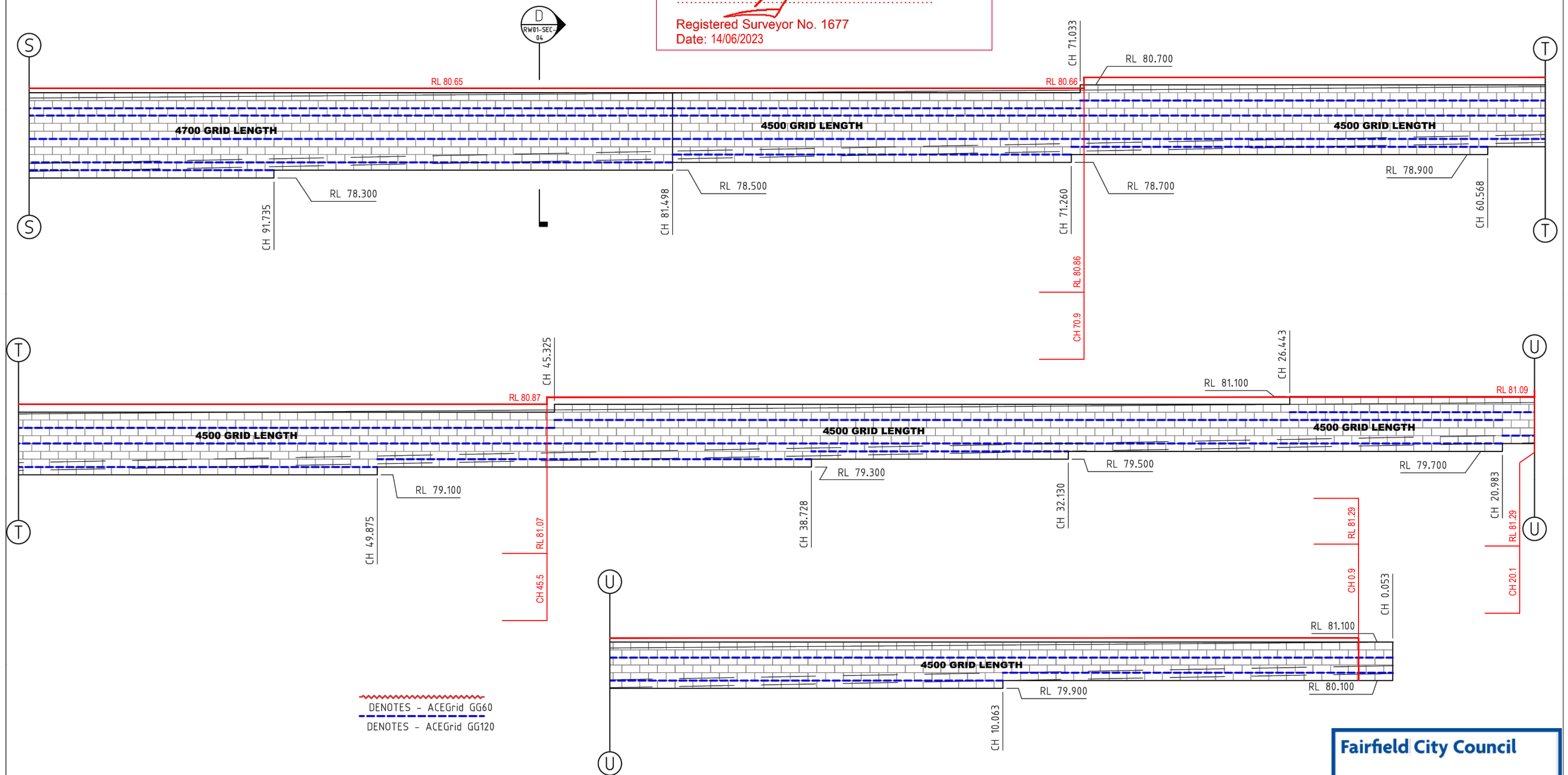
PROJECT NO
RS 2389

AUTOCAD REF
RS 2389 2

DWG. NO
RS-2389-RW01-9

REVISION
1

WORK AS EXECUTED SURVEY BY:
H. J. Murphy
Registered Surveyor No. 1677
Date: 14/06/2023



NOTE:
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REV	REVISION DESCRIPTION	DRAWN	DESIGNED	APPROVED	DATE
1	ELEVATION CHANGES	BB	PW		21-02-22
0	FOR APPROVAL PURPOSES	BB	PW		14-07-21

ABN 16 103 223 721
PHONE (02)9899 2111 FACSIMILE (02)9899 2112
SYDNEY AUSTRALIA

ENGINEERING DESIGN SERVICES FOR ALL TYPE OF RETAINING STRUCTURES
GABIONS, TERRAMESH, CRIB WALLS, SEGMENTAL WALLS AND REINFORCED SOIL STRUCTURES

2m 0 2 4 6
SCALE 1:100 (A3)

PROJECT TITLE
CSR STAGE 3

CLIENT/DEVELOPER
MULGOA QUARRIES

RW01 - REAR ELEVATION SHEET 10 OF 10	
PROJECT NO RS 2389	AUTOCAD REF RS 2389 2
DWG. NO RS-2389-RW01-10	REVISION 1

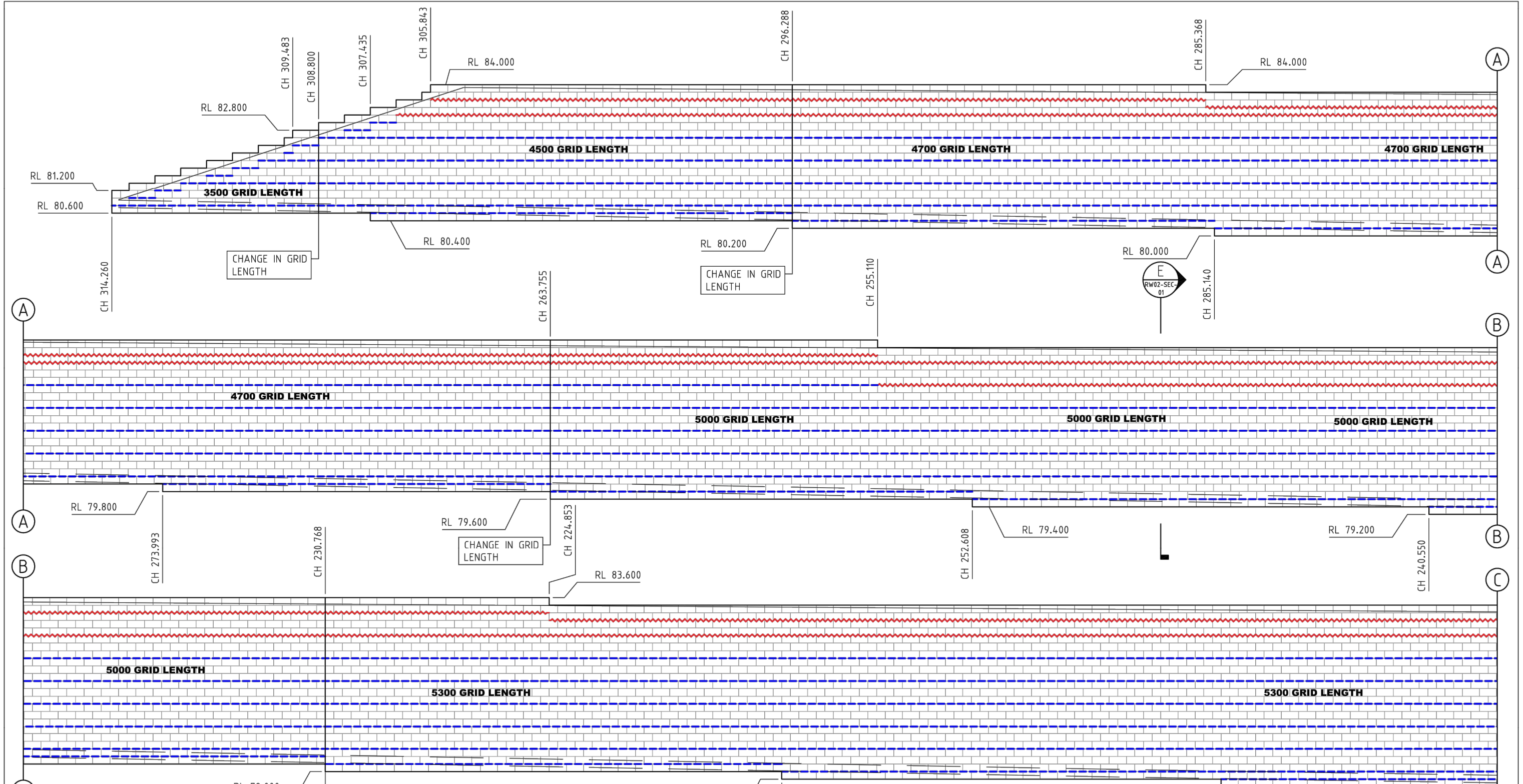
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and is hereby approved

ISSUED

C:\USERS\JAMES\DOWNLOADS\RS 2389 2022-21-02.DWG



NOTE:
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WORK AS EXECUTED SURVEY BY:
H. J. Murphy
Registered Surveyor No. 1677
Date: 14/06/2023
NO COMMENT

~~~~~  
DENOTES - ACEGrid GG60  
-----  
DENOTES - ACEGrid GG120

**RETAINING WALL RW02 REAR ELEVATION**  
**WALL TYPE: - KEYSTONE COMPAC II**  
SCALE 1:100  
WALL SURFACE AREA-1362m<sup>2</sup> (EXCL CAPS)

**ISSUE** and is hereby approved 

| REV | REVISION DESCRIPTION  | DRAWN | DESIGNED | APPROVED | DATE     |
|-----|-----------------------|-------|----------|----------|----------|
| 1   | ELEVATION CHANGES     | BB    | PW       |          | 21-02-22 |
| 0   | FOR APPROVAL PURPOSES | BB    | PW       |          | 14-07-21 |

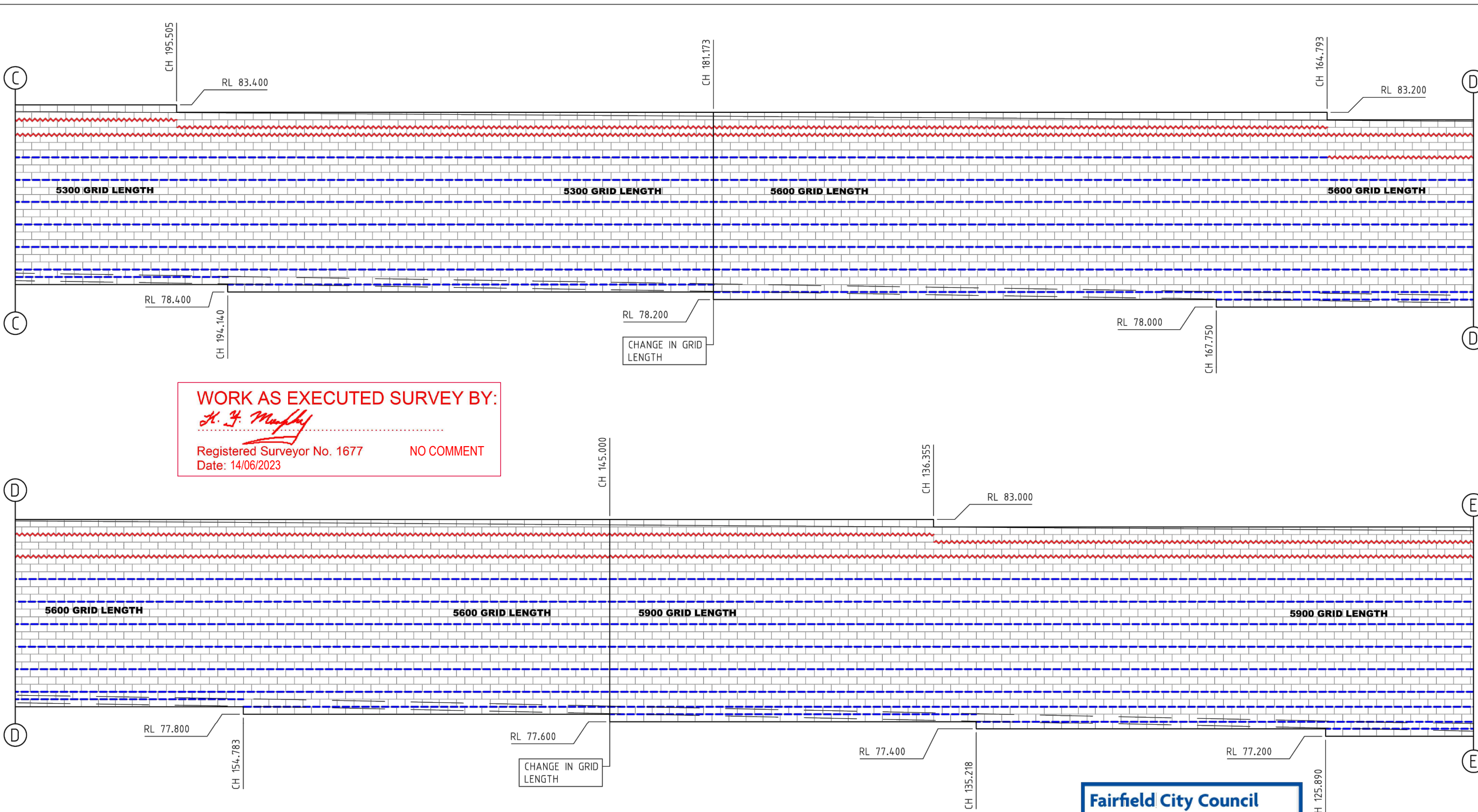
ABN 16 103 223 721  
PHONE (02)9899 2111 FACSIMILE (02)9899 2112  
SYDNEY AUSTRALIA

**ENGINEERING DESIGN SERVICES FOR ALL TYPE OF RETAINING STRUCTURES**  
GABIONS, TERRAMESH, CRIB WALLS, SEGMENTAL WALLS AND REINFORCED SOIL STRUCTURES

2m 0 2 4 6  
SCALE 1:100 (A3)

PROJECT TITLE  
CSR STAGE 3  
CLIENT/DEVELOPER  
MULGOA QUARRIES

|                                       |                          |
|---------------------------------------|--------------------------|
| RW02 - REAR ELEVATION<br>SHEET 1 OF 4 |                          |
| PROJECT NO<br>RS 2389                 | AUTOCAD REF<br>RS 2389 2 |
| DWG. NO<br>RS-2389-RW02-1             | REVISION<br>1            |



WORK AS EXECUTED SURVEY BY:  
*H. J. Murphy*  
Registered Surveyor No. 1677 NO COMMENT  
Date: 14/06/2023

**NOTE:**  
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DENOTES - ACEGrid GG60

DENOTES - ACEGrid GG120

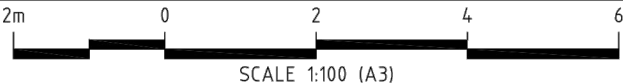
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No. 893.13/2013
Dated. 18 March 2022
and is hereby approved by

FOR APPROVAL

1	ELEVATION CHANGES	BB	PW		21-02-22
0	FOR APPROVAL PURPOSES	BB	PW		14-07-21
REV	REVISION DESCRIPTION	DRAWN	DESIGNED	APPROVED	DATE

ABN 16 103 223 721
PHONE (02)9899 2111 FACSIMILE (02)9899 2112
SYDNEY AUSTRALIA

**ENGINEERING DESIGN SERVICES FOR ALL
TYPE OF RETAINING STRUCTURES**
GABIONS, TERRAMESH, CRIB WALLS, SEGMENTAL WALLS
AND REINFORCED SOIL STRUCTURES

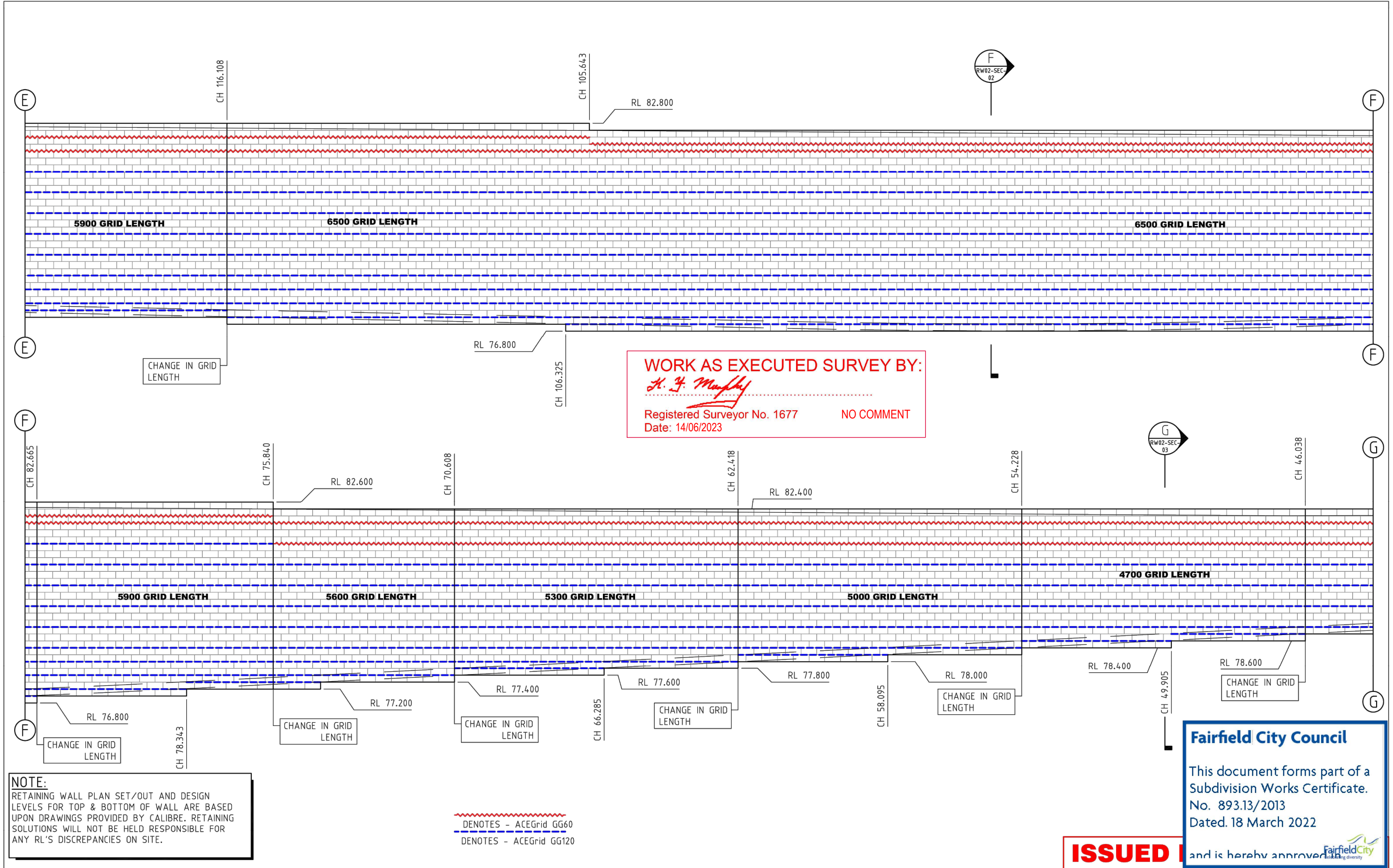


PROJECT TITLE
CSR STAGE 3

CLIENT/DEVELOPER
MULGOA QUARRIES

RW02 - REAR ELEVATION
SHEET 2 OF 4

PROJECT NO RS 2389	AUTOCAD REF RS 2389 2
DWG. NO RS-2389-RW02-2	REVISION 1



1	ELEVATION CHANGES	BB	PW		21-02-22
0	FOR APPROVAL PURPOSES	BB	PW		14-07-21
REV	REVISION DESCRIPTION	DRAWN	DESIGNED	APPROVED	DATE

ABN 16 103 223 721
PHONE (02)9899 2111 FACSIMILE (02)9899 2112
SYDNEY AUSTRALIA

**ENGINEERING DESIGN SERVICES FOR ALL
TYPE OF RETAINING STRUCTURES**
GABIONS, TERRAMESH, CRIB WALLS, SEGMENTAL WALLS
AND REINFORCED SOIL STRUCTURES

2m 0 2 4 6
SCALE 1:100 (A3)

PROJECT TITLE
CSR STAGE 3

CLIENT/DEVELOPER
MULGOA QUARRIES

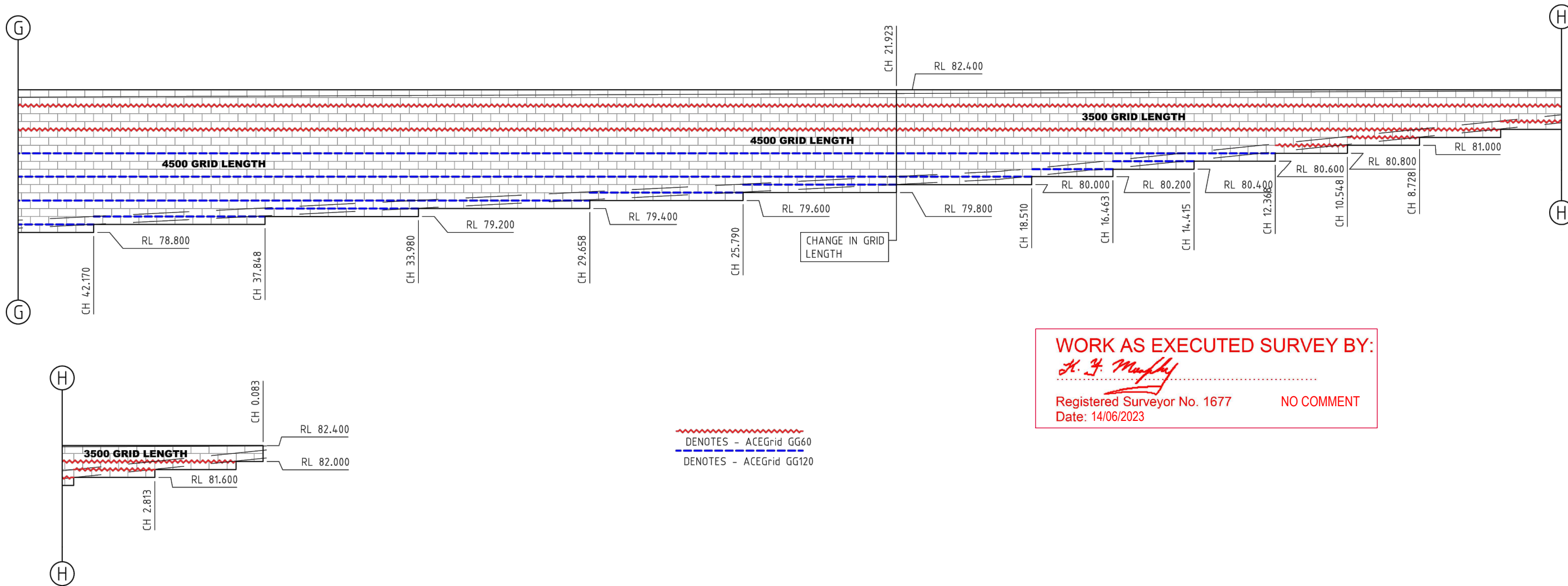
RW02 - REAR ELEVATION
SHEET 3 OF 4

PROJECT NO
RS 2389

AUTOCAD REF
RS 2389 2

DWG. NO
RS-2389-RW02-3

REVISION
1



WORK AS EXECUTED SURVEY BY:
H. J. Murphy
Registered Surveyor No. 1677
Date: 14/06/2023
NO COMMENT

~~~~~  
DENOTES - ACEGrid GG60  
-----  
DENOTES - ACEGrid GG120

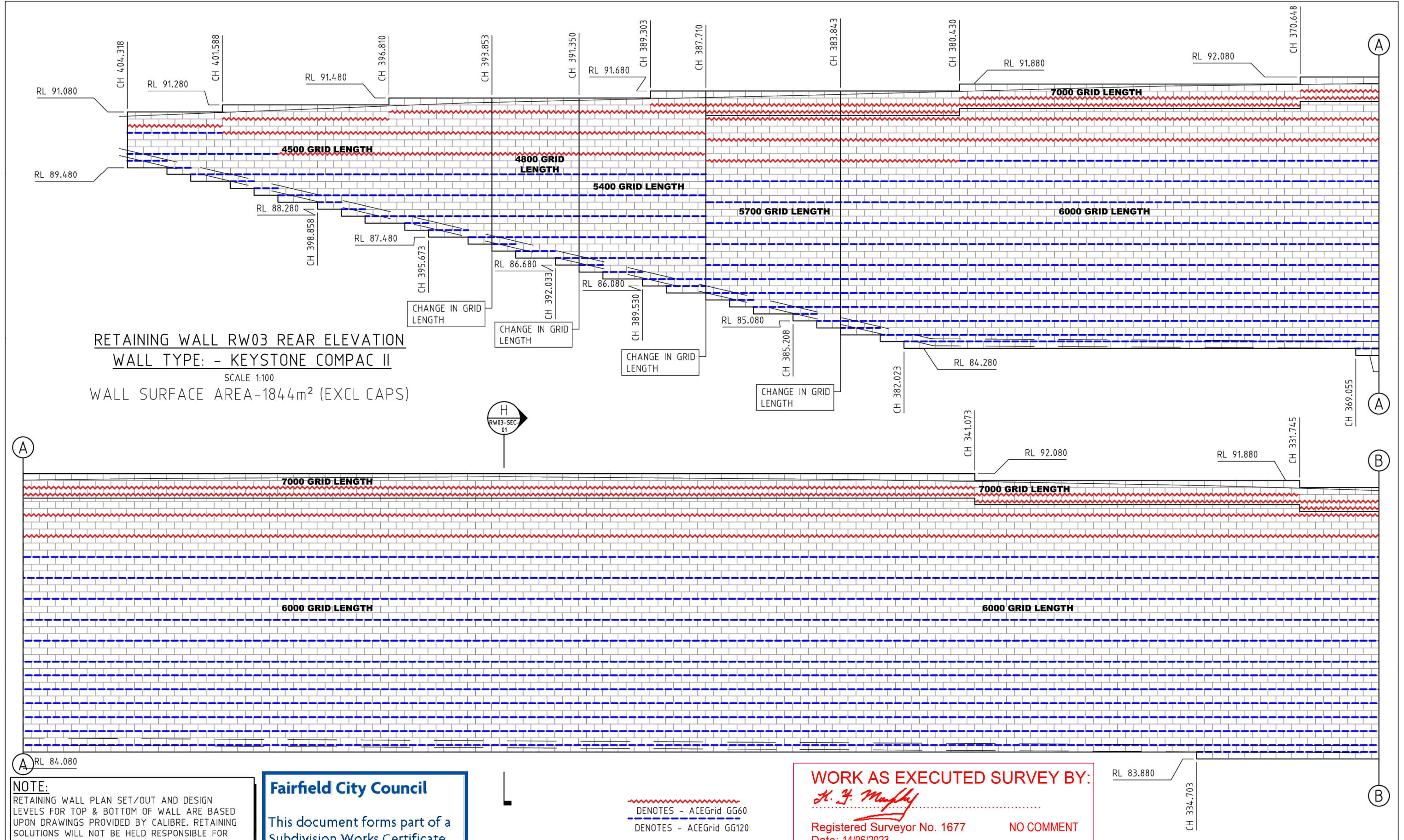
**NOTE:**  
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No. 893.13/2013  
Dated. 18 March 2022

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|     |                       |       |          |          |          |                                                                                                                                                                                                    |                                                                                                                                                                               |                                                        |                                                   |                                              |                                  |
|-----|-----------------------|-------|----------|----------|----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------|---------------------------------------------------|----------------------------------------------|----------------------------------|
|     |                       |       |          |          |          | <div></div> <div>ABN 16 103 223 721<br/>PHONE (02)9899 2111 FACSIMILE (02)9899 2112<br/>SYDNEY AUSTRALIA</div> | <div>ENGINEERING DESIGN SERVICES FOR ALL<br/>TYPE OF RETAINING STRUCTURES</div> <div>GABIONS, TERRAMESH, CRIB WALLS, SEGMENTAL WALLS<br/>AND REINFORCED SOIL STRUCTURES</div> | <div>PROJECT TITLE</div> <div>CSR STAGE 3</div>        | <div>RW02 - REAR ELEVATION<br/>SHEET 4 OF 4</div> |                                              |                                  |
|     |                       |       |          |          |          |                                                                                                                                                                                                    |                                                                                                                                                                               |                                                        |                                                   |                                              |                                  |
|     |                       |       |          |          |          |                                                                                                                                                                                                    |                                                                                                                                                                               |                                                        |                                                   |                                              |                                  |
|     |                       |       |          |          |          |                                                                                                                                                                                                    |                                                                                                                                                                               |                                                        |                                                   |                                              |                                  |
|     |                       |       |          |          |          |                                                                                                                                                                                                    |                                                                                                                                                                               |                                                        |                                                   |                                              |                                  |
| 1   | ELEVATION CHANGES     | BB    | PW       |          | 21-02-22 |                                                                                                                                                                                                    | <div>2m0246</div> <div>SCALE 1:100 (A3)</div>                                                                                                                                 | <div>CLIENT/DEVELOPER</div> <div>MULGOA QUARRIES</div> | <div>PROJECT NO</div> <div>RS 2389</div>          | <div>AUTOCAD REF RS 2389 2</div>             |                                  |
| 0   | FOR APPROVAL PURPOSES | BB    | PW       |          | 14-07-21 |                                                                                                                                                                                                    |                                                                                                                                                                               |                                                        |                                                   | <div>DWG. NO</div> <div>RS-2389-RW02-4</div> | <div>REVISION</div> <div>1</div> |
| REV | REVISION DESCRIPTION  | DRAWN | DESIGNED | APPROVED | DATE     |                                                                                                                                                                                                    |                                                                                                                                                                               |                                                        |                                                   |                                              |                                  |





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|     |                       |       |          |          |          |
|-----|-----------------------|-------|----------|----------|----------|
| 1   | ELEVATION CHANGES     | BB    | JG       |          | 21-02-22 |
| 0   | FOR APPROVAL PURPOSES | BB    | PW       |          | 21-07-21 |
| REV | REVISION DESCRIPTION  | DRAWN | DESIGNED | APPROVED | DATE     |

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Dated. 18 March 2022

and is hereby approved

ABN 16 103 223 721  
PHONE (02)9899 2111 FACSIMILE (02)9899 2112  
SYDNEY AUSTRALIA

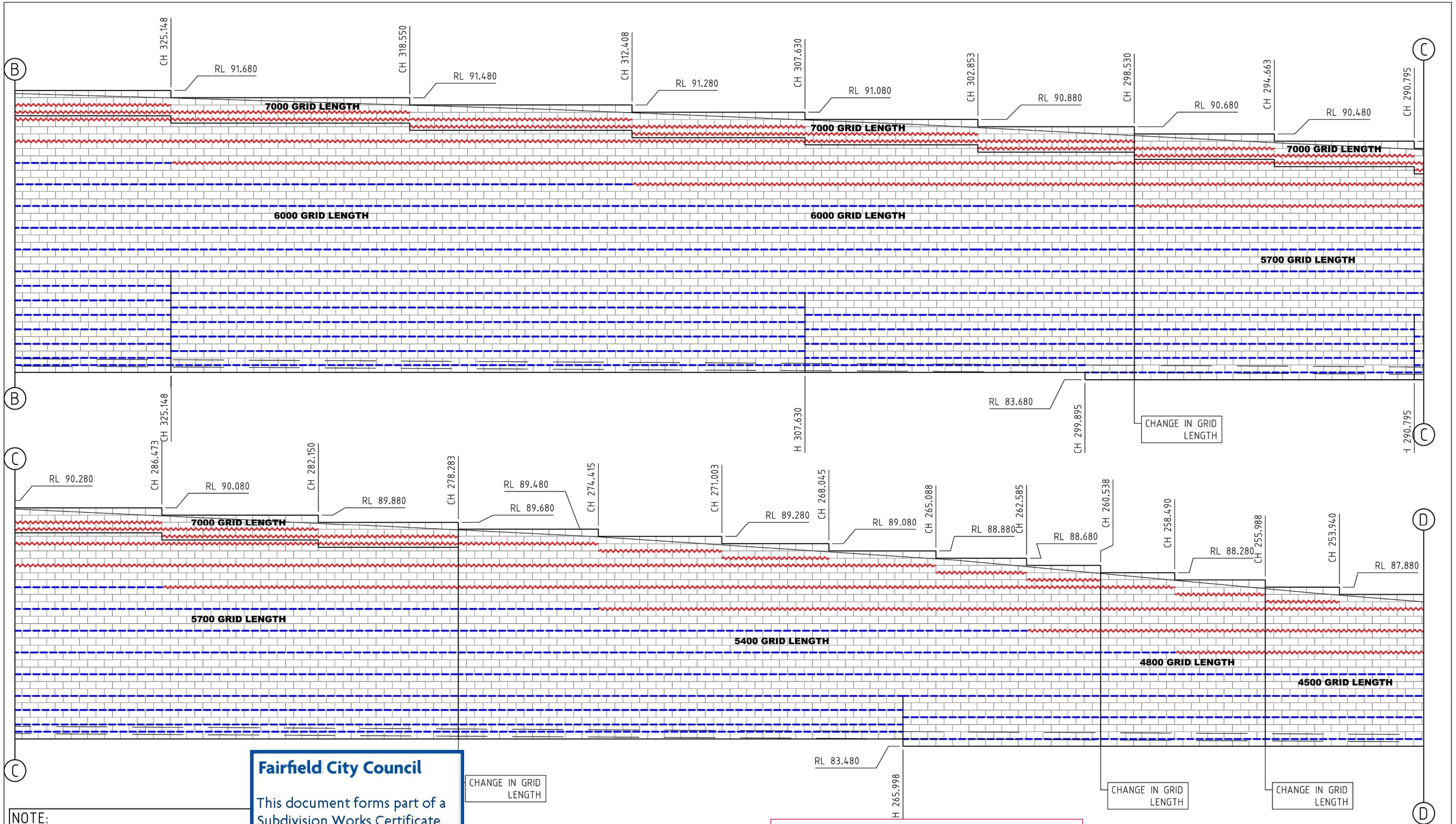
**ENGINEERING DESIGN SERVICES FOR ALL TYPE OF RETAINING STRUCTURES**  
GABIONS, TERRAMESH, CRIB WALLS, SEGMENTAL WALLS AND REINFORCED SOIL STRUCTURES

2m 0 2 4 6  
SCALE 1:100 (A3)

|                                     |
|-------------------------------------|
| PROJECT TITLE<br>CSR STAGE 3        |
| CLIENT/DEVELOPER<br>MULGOA QUARRIES |

|                                       |                          |
|---------------------------------------|--------------------------|
| RW03 - REAR ELEVATION<br>SHEET 1 OF 5 |                          |
| PROJECT NO<br>RS 2389                 | AUTOCAD REF<br>RS 2389 2 |
| DWG. NO<br>RS-2389-RW03-1             | REVISION<br>1            |





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Dated. 18 March 2022  
and is hereby approved

~~~~~  
DENOTES - ACEGrid GG60

DENOTES - ACEGrid GG120

WORK AS EXECUTED SURVEY BY:

Registered Surveyor No. 1677
Date: 14/06/2023

NO COMMENT

ISSUED FOR APPROVAL

REV	REVISION DESCRIPTION	DRAWN	DESIGNED	APPROVED	DATE
1	ELEVATION CHANGES	BB	PW		21-02-22
0	FOR APPROVAL PURPOSES	BB	PW		21-07-21

ABN 16 103 223 721
PHONE (02)9899 2111 FACSIMILE (02)9899 2112
SYDNEY AUSTRALIA

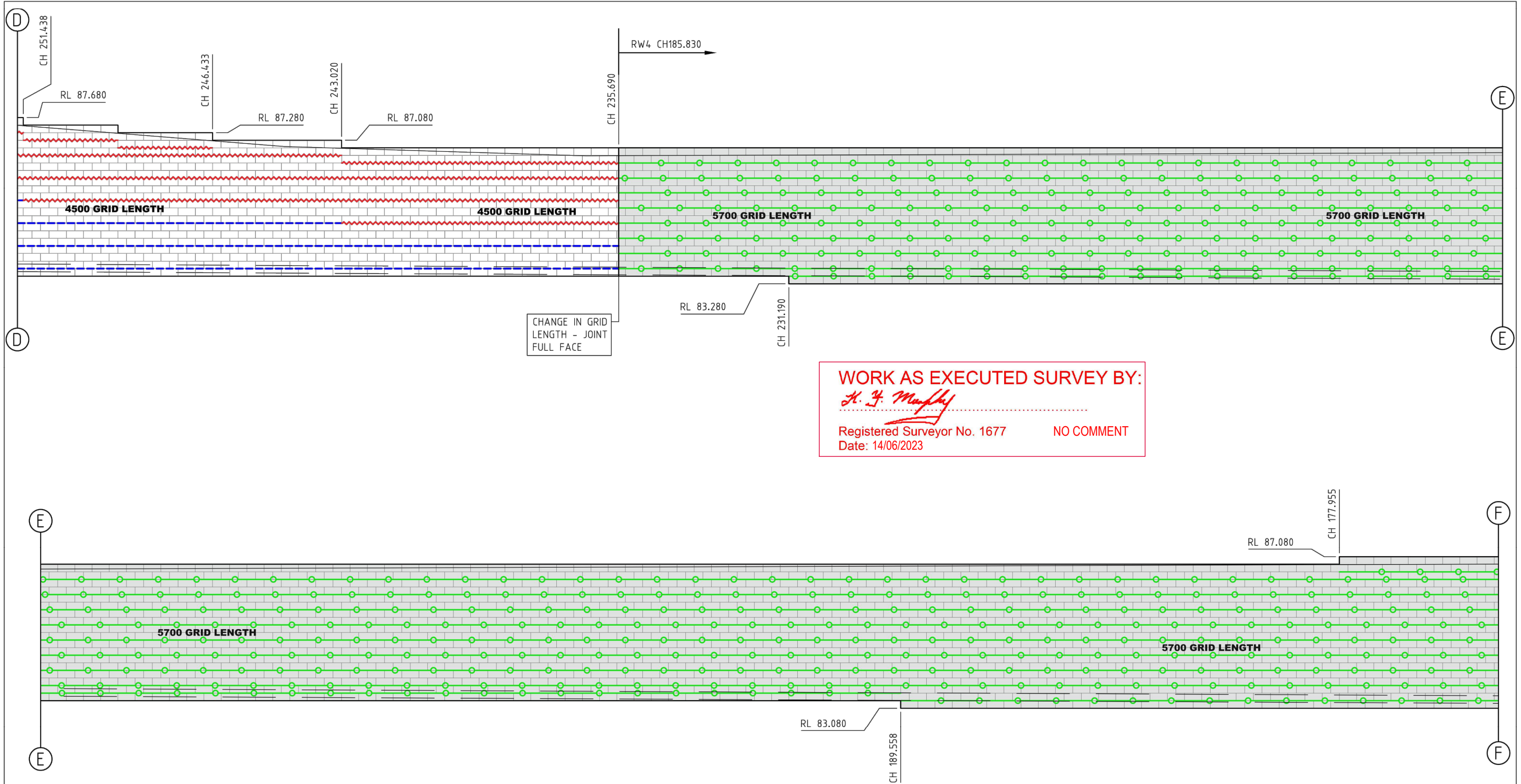
ENGINEERING DESIGN SERVICES FOR ALL TYPE OF RETAINING STRUCTURES
GABIONS, TERRAMESH, CRIB WALLS, SEGMENTAL WALLS AND REINFORCED SOIL STRUCTURES

SCALE 1:100 (A3)

PROJECT TITLE
CSR STAGE 3

CLIENT/DEVELOPER
MULGOA QUARRIES

RW03 - REAR ELEVATION SHEET 2 OF 5	
PROJECT NO RS 2389	AUTOCAD REF RS 2389 2
DWG. NO RS-2389-RW03-2	REVISION 1



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NOTE:
IF FOUNDATION MATERIAL SOIL PROPERTIES FOR RW3 FROM CH235-404.55 IS LESS THAN ASSUMED, FOUNDATION REPLACEMENT IS REQUIRED. REFER TO ASSUMED DESIGN PARAMETERS ON SHEET NOTES 2 FOR FURTHER DETAILS.

 DENOTES - TW3 FACING BLOCK

 DENOTES - ACEGrid GG60
 DENOTES - ACEGrid GG120

 DENOTES - TENSAR RE570

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REV	REVISION DESCRIPTION	DRAWN	DESIGNED	APPROVED	DATE
1	ELEVATION CHANGES	BB	PW		21-02-22
0	FOR APPROVAL PURPOSES	BB	PW		21-07-21

ABN 16 103 223 721
PHONE (02)9899 2111 FACSIMILE (02)9899 2112
SYDNEY AUSTRALIA

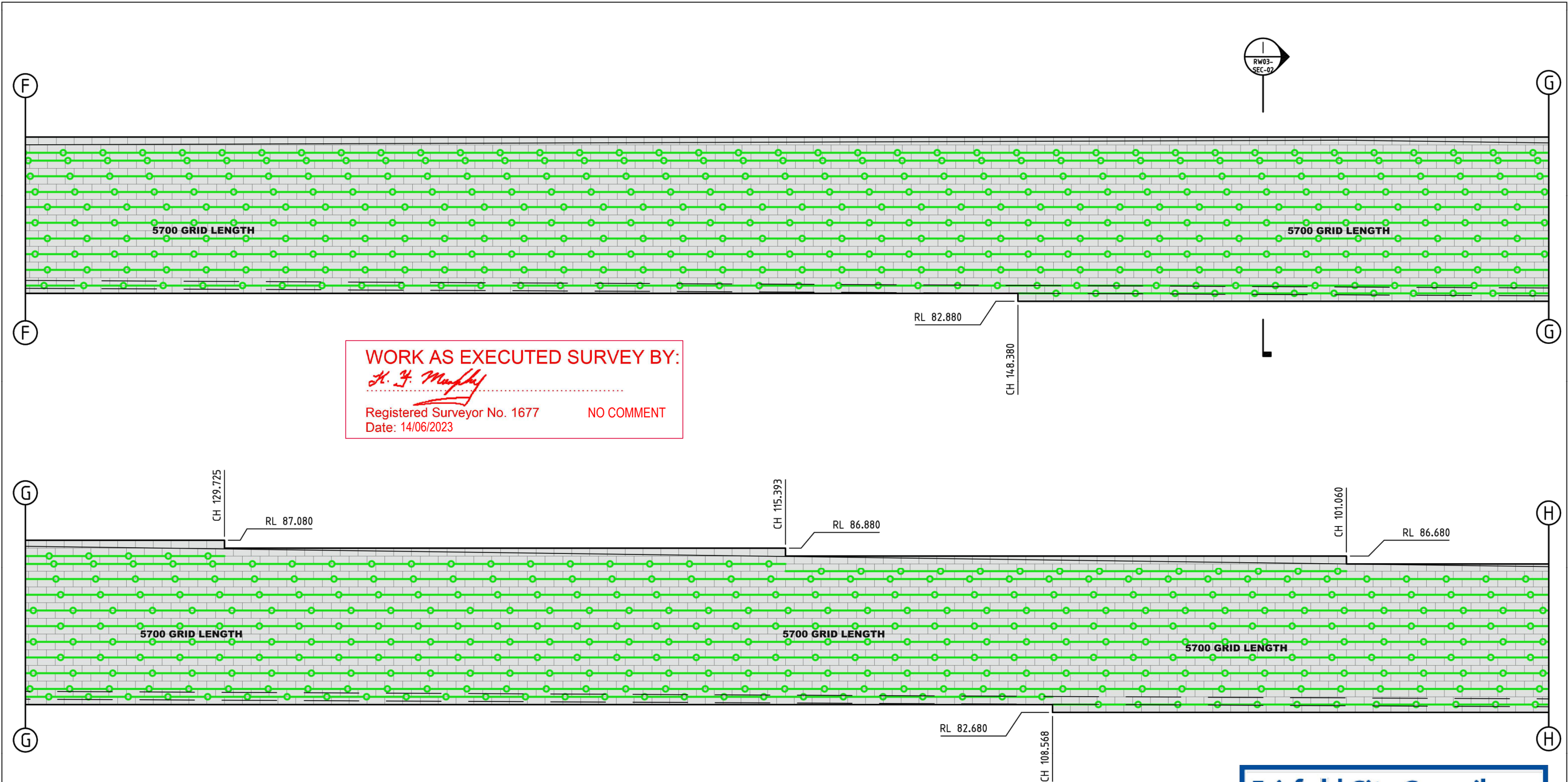
ENGINEERING DESIGN SERVICES FOR ALL TYPE OF RETAINING STRUCTURES
GABIONS, TERRAMESH, CRIB WALLS, SEGMENTAL WALLS AND REINFORCED SOIL STRUCTURES

2m 0 2 4 6
SCALE 1:100 (A3)

PROJECT TITLE
CSR STAGE 3

CLIENT/DEVELOPER
MULGOA QUARRIES

RW03 - REAR ELEVATION SHEET 3 OF 5	
PROJECT NO RS 2389	AUTOCAD REF RS 2389 2
DWG. NO RS-2389-RW03-3	REVISION 1



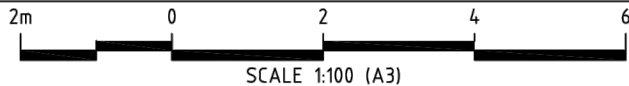
WORK AS EXECUTED SURVEY BY:
H. J. Murphy
Registered Surveyor No. 1677 NO COMMENT
Date: 14/06/2023

NOTE:
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REV	REVISION DESCRIPTION	DRAWN	DESIGNED	APPROVED	DATE
1	ELEVATION CHANGES	BB	JG		21-02-22
0	FOR APPROVAL PURPOSES	BB	PW		21-07-21

ABN 16 103 223 721
PHONE (02)9899 2111 FACSIMILE (02)9899 2112
SYDNEY AUSTRALIA

**ENGINEERING DESIGN SERVICES FOR ALL
TYPE OF RETAINING STRUCTURES**
GABIONS, TERRAMESH, CRIB WALLS, SEGMENTAL WALLS
AND REINFORCED SOIL STRUCTURES



PROJECT TITLE
CSR STAGE 3

CLIENT/DEVELOPER
MULGOA QUARRIES

RW03 - REAR ELEVATION
SHEET 4 OF 5

PROJECT NO RS 2389	AUTOCAD REF RS 2389 2
DWG. NO RS-2389-RW03-4	REVISION 1

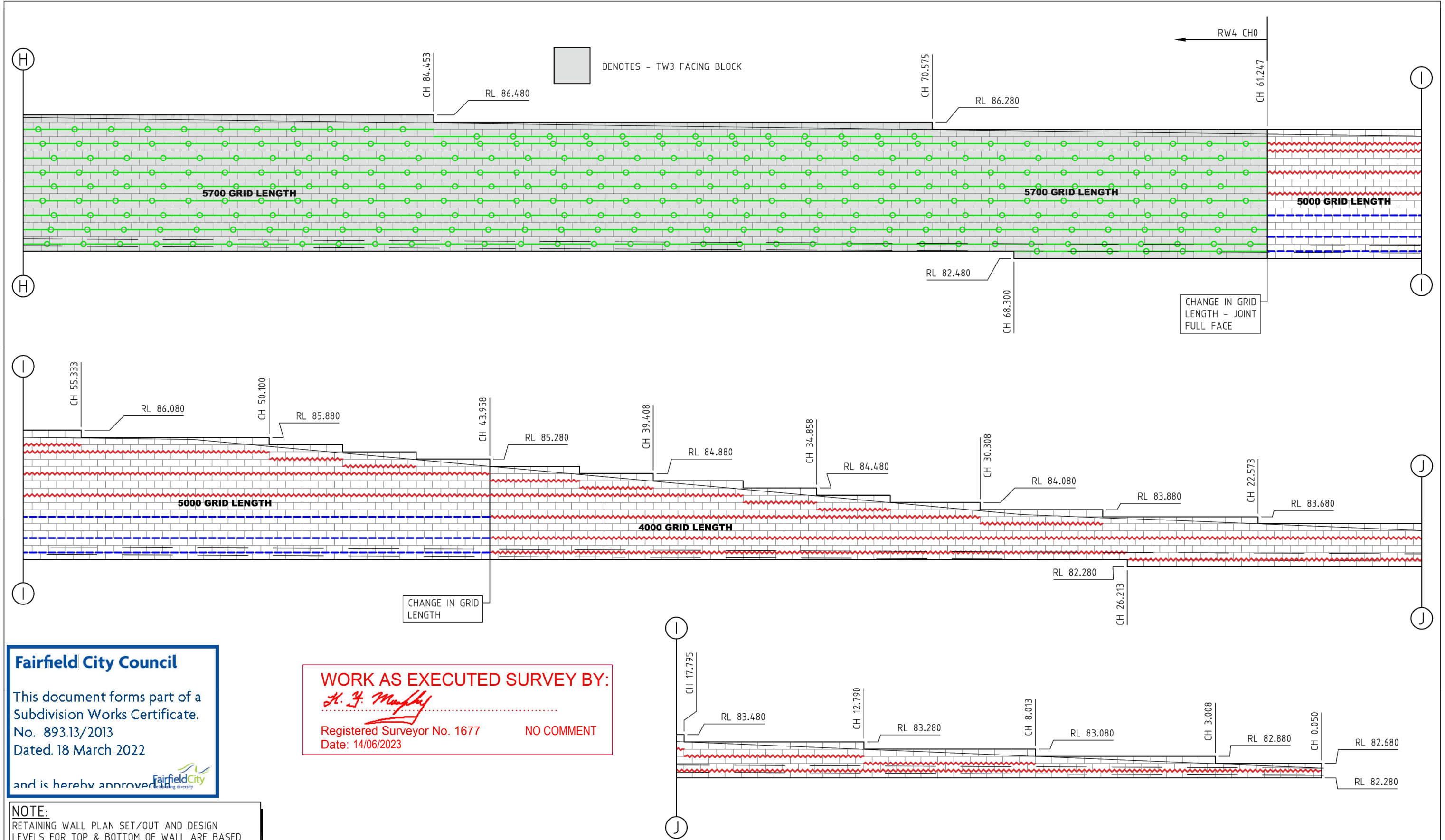
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Dated. 18 March 2022

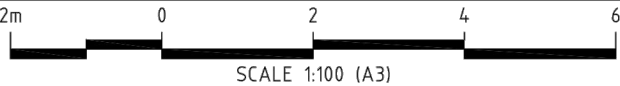
and is hereby approved

NOTE:
RETAINING WALL PLAN SET/OUT AND DESIGN
LEVELS FOR TOP & BOTTOM OF WALL ARE BASED
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1	ELEVATION CHANGES	BB	JG	21-02-22
0	FOR APPROVAL PURPOSES	BB	PW	21-07-21
REV	REVISION DESCRIPTION	DRAWN	DESIGNED	APPROVED DATE

ABN 16 103 223 721
PHONE (02)9899 2111 FACSIMILE (02)9899 2112
SYDNEY AUSTRALIA

**ENGINEERING DESIGN SERVICES FOR ALL
TYPE OF RETAINING STRUCTURES**
GABIONS, TERRAMESH, CRIB WALLS, SEGMENTAL WALLS
AND REINFORCED SOIL STRUCTURES



PROJECT TITLE
CSR STAGE 3

CLIENT/DEVELOPER
MULGOA QUARRIES

ISSUED FOR APPROVAL

RW03 - REAR ELEVATION
SHEET 5 OF 5

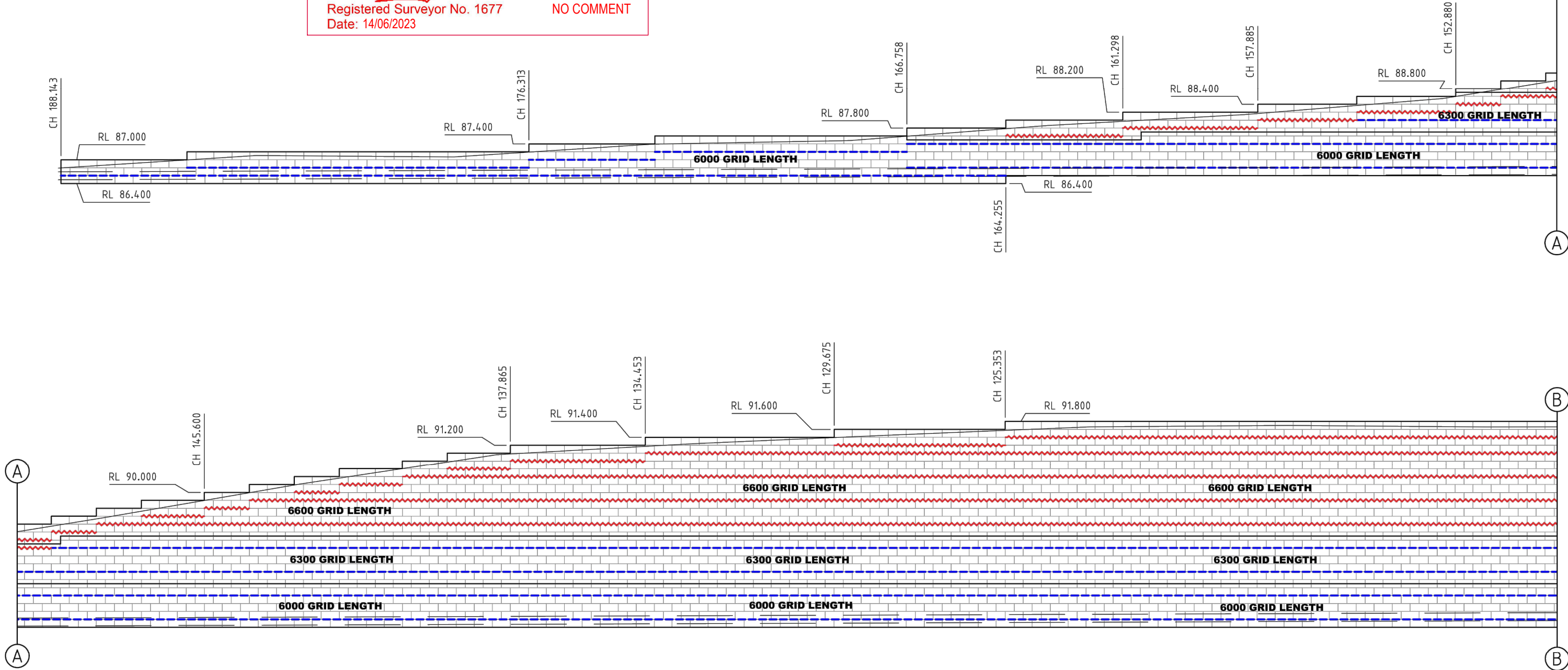
PROJECT NO RS 2389	AUTOCAD REF RS 2389 2
DWG. NO RS-2389-RW03-5	REVISION 1

WORK AS EXECUTED SURVEY BY:

H. J. Murphy

Registered Surveyor No. 1677
Date: 14/06/2023

NO COMMENT



NOTE:
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~~~~~  
DENOTES - ACEGrid GG60  
-----  
DENOTES - ACEGrid GG120

RETAINING WALL RW04 REAR ELEVATION  
WALL TYPE: - KEYSTONE COMPAC II  
SCALE 1:100  
WALL SURFACE AREA-633m<sup>2</sup> (EXCL CAPS)

**Fairfield City Council**

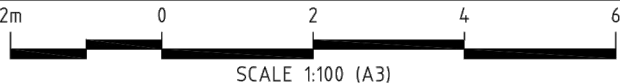
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| REV | REVISION DESCRIPTION  | DRAWN | DESIGNED | APPROVED | DATE     |
|-----|-----------------------|-------|----------|----------|----------|
| 1   | ELEVATION CHANGES     | BB    | PW       |          | 21-02-22 |
| 0   | FOR APPROVAL PURPOSES | BB    | PW       |          | 21-07-21 |

ABN 16 103 223 721  
PHONE (02)9899 2111 FACSIMILE (02)9899 2112  
SYDNEY AUSTRALIA

**ENGINEERING DESIGN SERVICES FOR ALL  
TYPE OF RETAINING STRUCTURES**  
GABIONS, TERRAMESH, CRIB WALLS, SEGMENTAL WALLS  
AND REINFORCED SOIL STRUCTURES



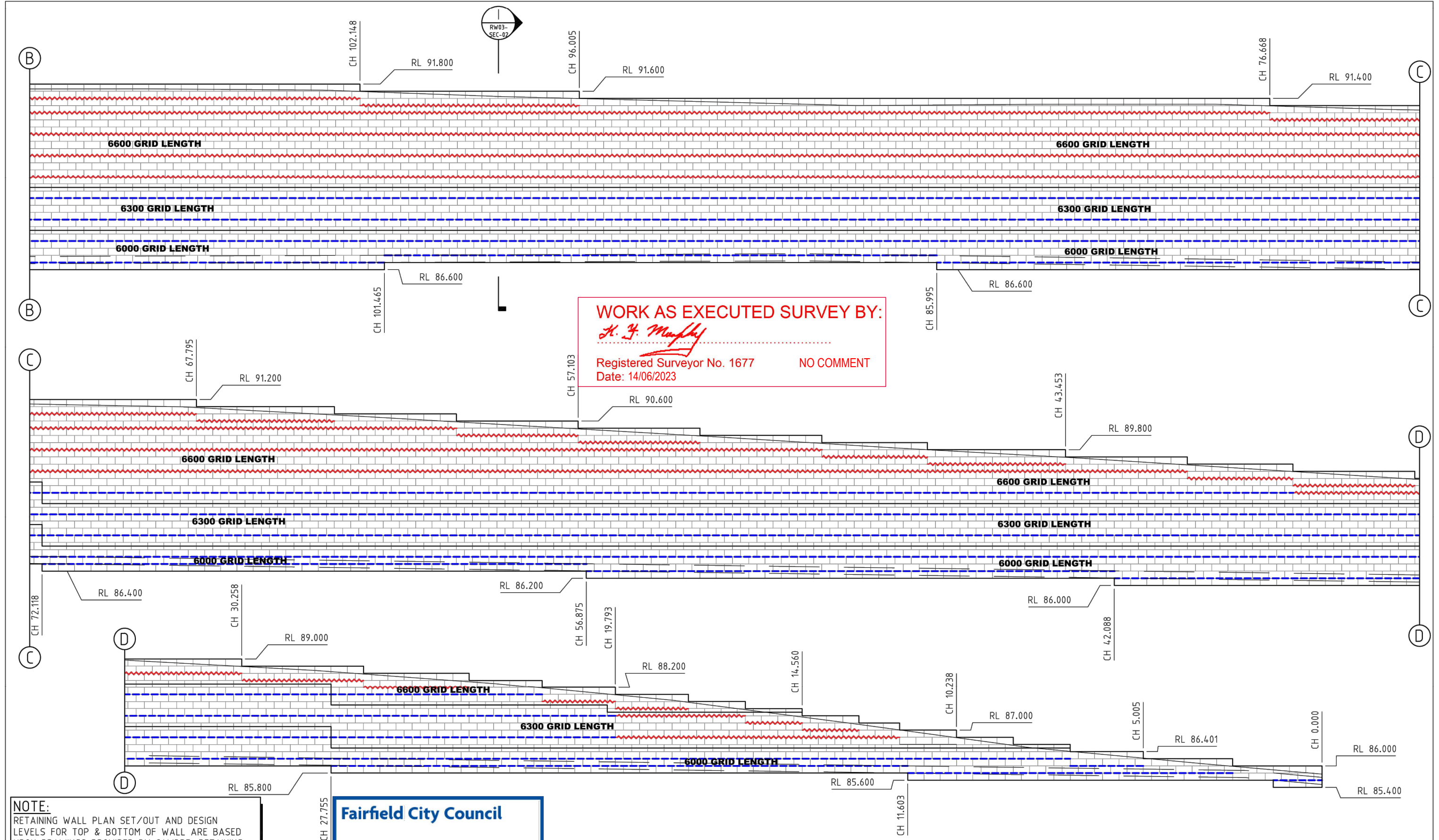
PROJECT TITLE  
CSR STAGE 3

CLIENT/DEVELOPER  
MULGOA QUARRIES

RW04 - REAR ELEVATION  
SHEET 1 OF 2

|                       |                          |                           |               |
|-----------------------|--------------------------|---------------------------|---------------|
| PROJECT NO<br>RS 2389 | AUTOCAD REF<br>RS 2389 2 | DWG. NO<br>RS-2389-RW04-1 | REVISION<br>1 |
|-----------------------|--------------------------|---------------------------|---------------|





WORK AS EXECUTED SURVEY BY:  
*H. J. Murphy*  
Registered Surveyor No. 1677      NO COMMENT  
Date: 14/06/2023

**NOTE:**  
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and is hereby approved

--- DENOTES --- ACEGrid GG60  
--- DENOTES --- ACEGrid GG120

|     |                       |       |          |          |          |
|-----|-----------------------|-------|----------|----------|----------|
| 1   | ELEVATION CHANGES     | BB    | JG       |          | 21-02-22 |
| 0   | FOR APPROVAL PURPOSES | BB    | PW       |          | 21-07-21 |
| REV | REVISION DESCRIPTION  | DRAWN | DESIGNED | APPROVED | DATE     |

ABN 16 103 223 721  
PHONE (02)9899 2111 FACSIMILE (02)9899 2112  
SYDNEY AUSTRALIA

**ENGINEERING DESIGN SERVICES FOR ALL TYPE OF RETAINING STRUCTURES**  
GABIONS, TERRAMESH, CRIB WALLS, SEGMENTAL WALLS AND REINFORCED SOIL STRUCTURES

2m 0 2 4 6  
SCALE 1:100 (A3)

PROJECT TITLE  
CSR STAGE 3

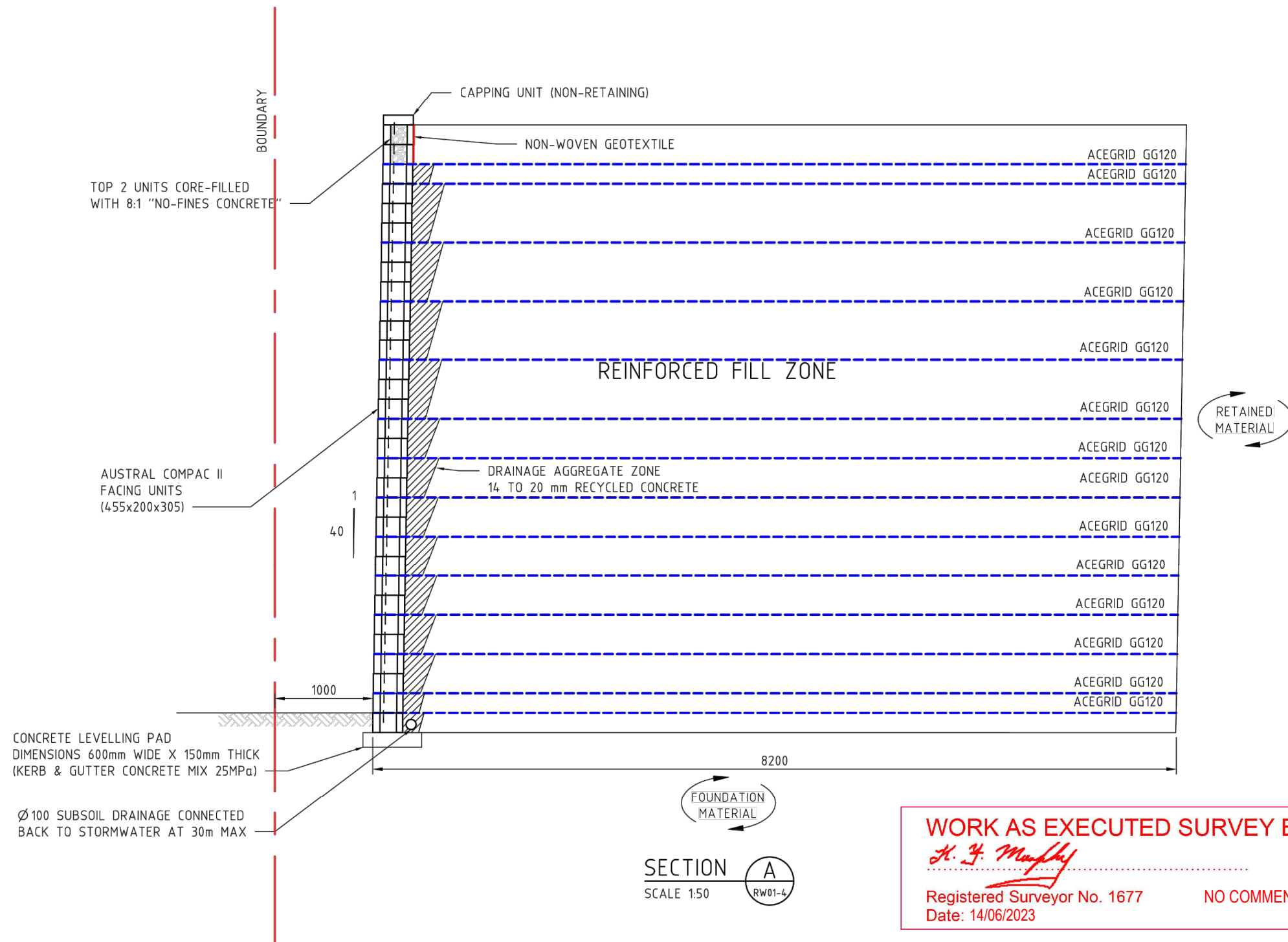
CLIENT/DEVELOPER  
MULGOA QUARRIES

**ISSUED FOR APPROVAL**

|                                       |                          |
|---------------------------------------|--------------------------|
| RW04 - REAR ELEVATION<br>SHEET 2 OF 2 |                          |
| PROJECT NO<br>RS 2389                 | AUTOCAD REF<br>RS 2389 2 |
| DWG. NO<br>RS-2389-RW04-2             | REVISION<br>1            |



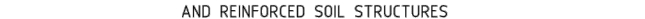




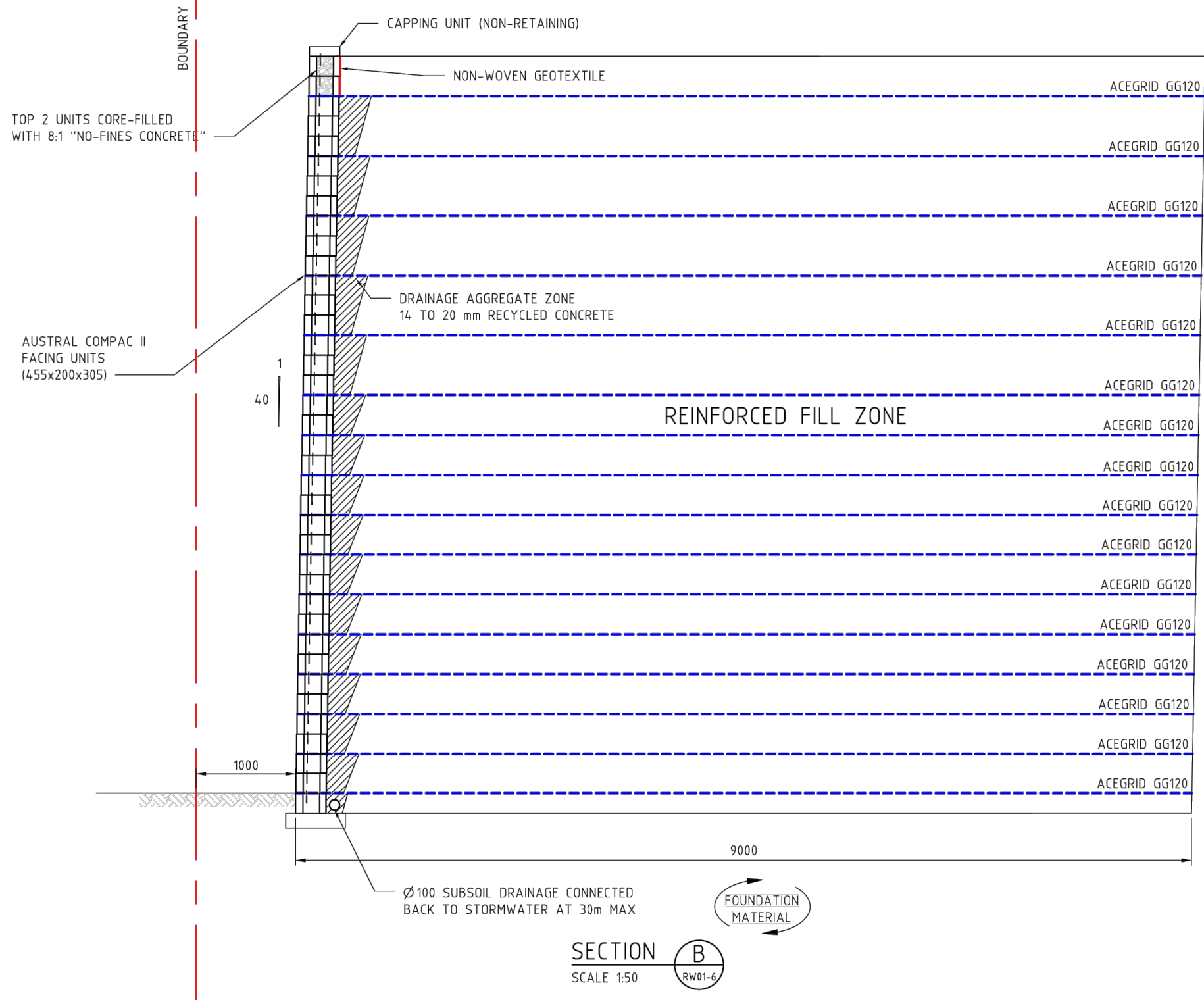
WORK AS EXECUTED SURVEY BY:  
*H. J. Murphy*  
Registered Surveyor No. 1677 NO COMMENT  
Date: 14/06/2023

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Dated. 18 March 2022  
and is hereby approved

**ISSUED**

|     |                       |       |          |          |          |                                                                                                                                                                                                    |                                                                                                                                                                               |  |                                                 |                                             |                             |                                                   |  |                                  |
|-----|-----------------------|-------|----------|----------|----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-------------------------------------------------|---------------------------------------------|-----------------------------|---------------------------------------------------|--|----------------------------------|
|     |                       |       |          |          |          | <div></div> <div>ABN 16 103 223 721<br/>PHONE (02)9899 2111 FACSIMILE (02)9899 2112<br/>SYDNEY AUSTRALIA</div> | <div>ENGINEERING DESIGN SERVICES FOR ALL<br/>TYPE OF RETAINING STRUCTURES</div> <div>GABIONS, TERRAMESH, CRIB WALLS, SEGMENTAL WALLS<br/>AND REINFORCED SOIL STRUCTURES</div> |  | <div>PROJECT TITLE</div> <div>CSR STAGE 3</div> |                                             | RW01 - CROSS SECTION 1 OF 5 |                                                   |  |                                  |
|     |                       |       |          |          |          |                                                                                                                                                                                                    | <div>CLIENT/DEVELOPER</div> <div>MULGOA QUARRIES</div>                                                                                                                        |  | <div>PROJECT NO</div> <div>RS 2389</div>        | <div>AUTOCAD REF</div> <div>RS 2389 2</div> |                             |                                                   |  |                                  |
| 0   | FOR APPROVAL PURPOSES | BB    | PW       |          | 14-07-21 |                                                                                                                                                                                                    | <div></div> <div>SCALE 1:100 (A3)</div>                                                  |  |                                                 |                                             |                             | <div>DWG. NO</div> <div>RS-2389-RW01-SEC-01</div> |  | <div>REVISION</div> <div>0</div> |
| REV | REVISION DESCRIPTION  | DRAWN | DESIGNED | APPROVED | DATE     |                                                                                                                                                                                                    |                                                                                                                                                                               |  |                                                 |                                             |                             |                                                   |  |                                  |
|     |                       |       |          |          |          |                                                                                                                                                                                                    |                                                                                                                                                                               |  |                                                 |                                             |                             |                                                   |  |                                  |
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Registered Surveyor No. 1677 NO COMMENT  
Date: 14/06/2023



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MATERIAL

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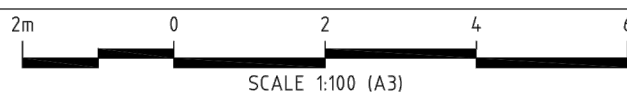
ISSUED and is hereby approved



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| 0   | FOR APPROVAL PURPOSES | BB    | PW       |          | 14-07-21 |
| REV | REVISION DESCRIPTION  | DRAWN | DESIGNED | APPROVED | DATE     |

ABN 16 103 223 721  
PHONE (02)9899 2111 FACSIMILE (02)9899 2112  
SYDNEY AUSTRALIA

ENGINEERING DESIGN SERVICES FOR ALL  
TYPE OF RETAINING STRUCTURES  
GABIONS, TERRAMESH, CRIB WALLS, SEGMENTAL WALLS  
AND REINFORCED SOIL STRUCTURES



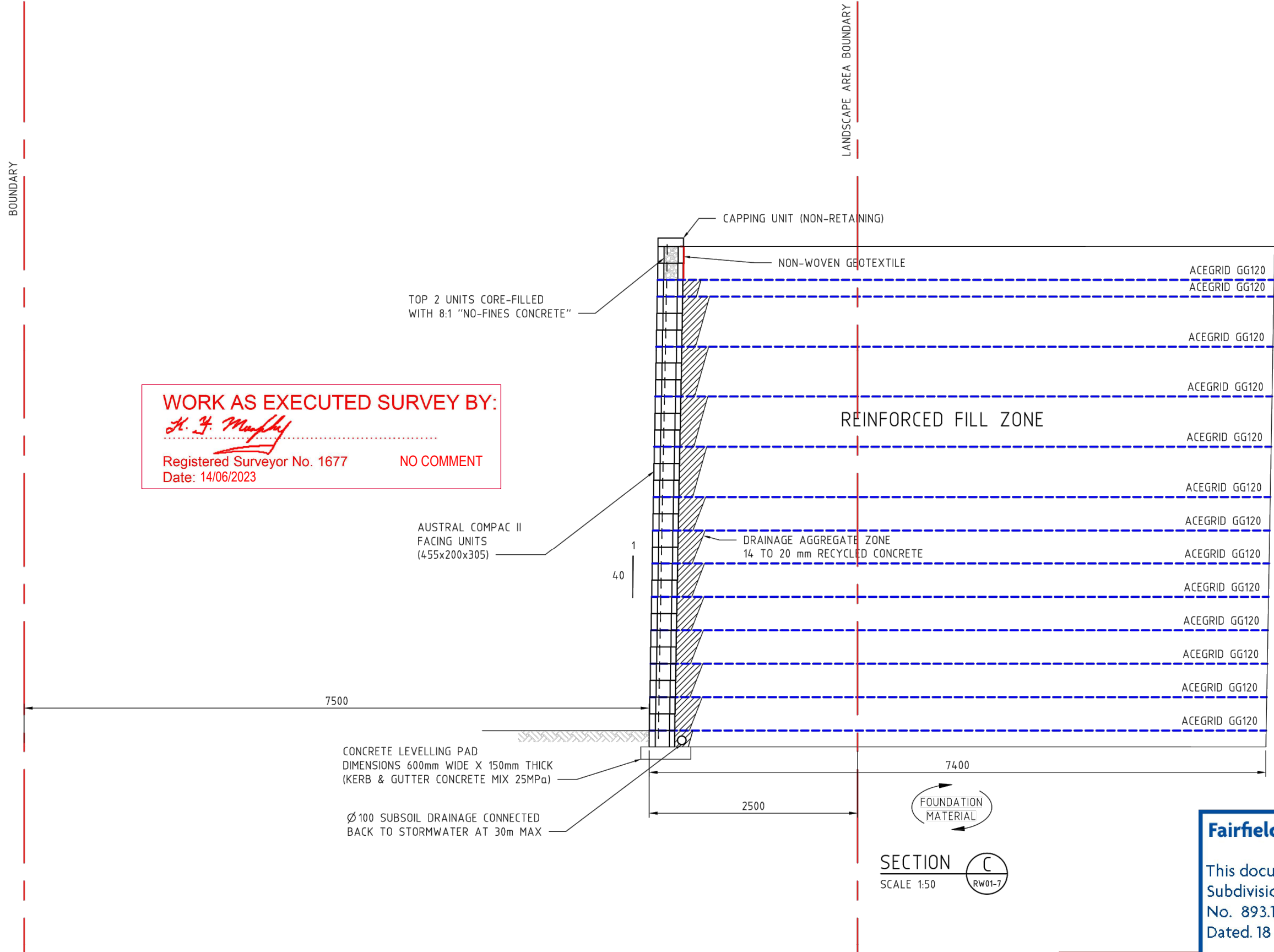
PROJECT TITLE  
CSR STAGE 3

CLIENT/DEVELOPER  
MULGOA QUARRIES

RW01 - CROSS SECTION 2 OF 5

|                       |                          |               |
|-----------------------|--------------------------|---------------|
| PROJECT NO<br>RS 2389 | AUTOCAD REF<br>RS 2389 2 | REVISION<br>0 |
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Date: 14/06/2023

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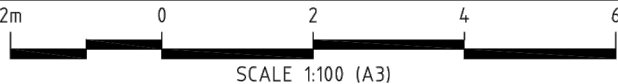
and is hereby approved



| REV | REVISION DESCRIPTION  | DRAWN | DESIGNED | APPROVED | DATE     |
|-----|-----------------------|-------|----------|----------|----------|
| 0   | FOR APPROVAL PURPOSES | BB    | PW       |          | 14-07-21 |

ABN 16 103 223 721  
PHONE (02)9899 2111 FACSIMILE (02)9899 2112  
SYDNEY AUSTRALIA

ENGINEERING DESIGN SERVICES FOR ALL  
TYPE OF RETAINING STRUCTURES  
GABIONS, TERRAMESH, CRIB WALLS, SEGMENTAL WALLS  
AND REINFORCED SOIL STRUCTURES



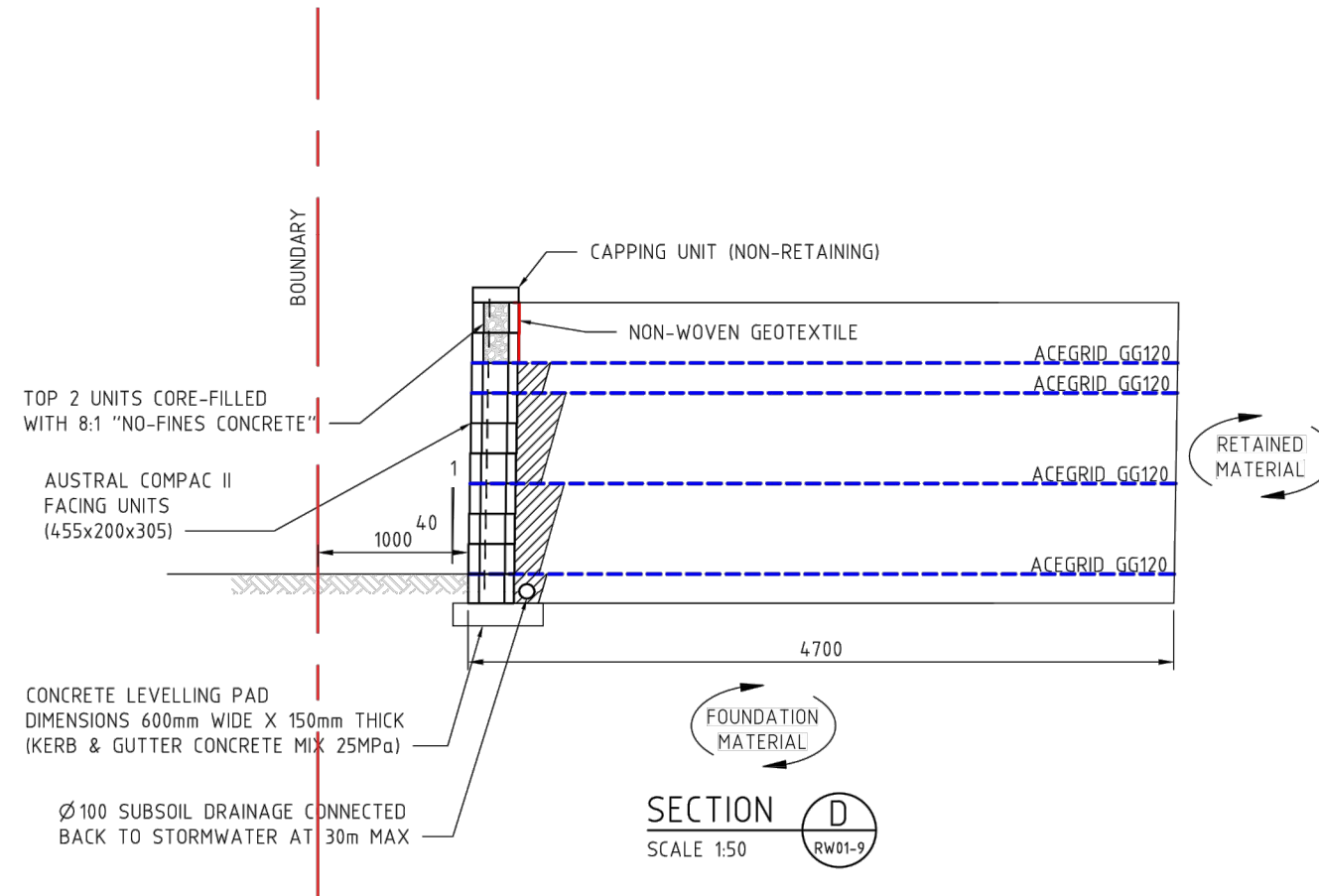
PROJECT TITLE  
CSR STAGE 3

CLIENT/DEVELOPER  
MULGOA QUARRIES

RW01 - CROSS SECTION 3 OF 5

|                       |                          |               |
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| PROJECT NO<br>RS 2389 | AUTOCAD REF<br>RS 2389 2 | REVISION<br>0 |
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Dated: 18 March 2022

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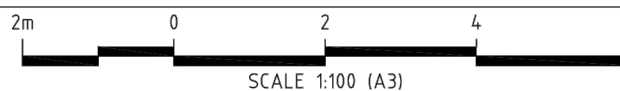


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| 0   | FOR APPROVAL PURPOSES | BB    | PW       |          | 14-07-21 |
| REV | REVISION DESCRIPTION  | DRAWN | DESIGNED | APPROVED | DATE     |

ABN 16 103 223 721  
PHONE (02)9899 2111 FACSIMILE (02)9899 2112  
SYDNEY AUSTRALIA

ENGINEERING DESIGN SERVICES FOR ALL  
TYPE OF RETAINING STRUCTURES

GABIONS, TERRAMESH, CRIB WALLS, SEGMENTAL WALLS  
AND REINFORCED SOIL STRUCTURES



PROJECT TITLE

CSR STAGE 3

CLIENT/DEVELOPER

MULGOA QUARRIES

RW01 - CROSS SECTION 4 OF 5

PROJECT NO

RS 2389

AUTOCAD REF RS 2389 2

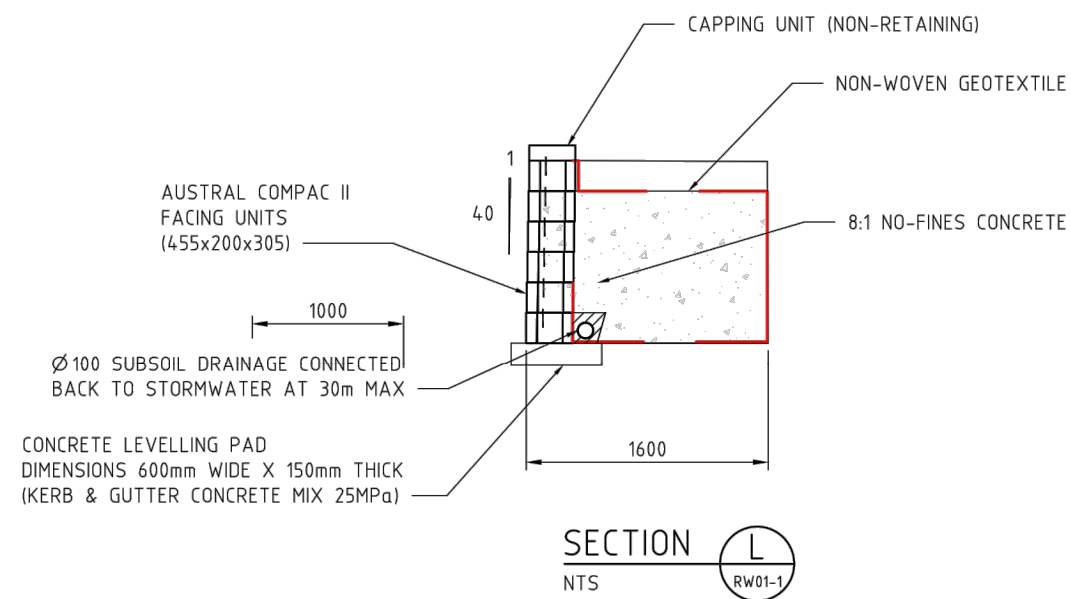
DWG. NO

RS-2389-RW01-SEC-04

REVISION

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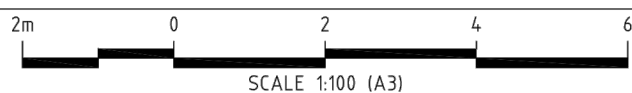
and is hereby approved



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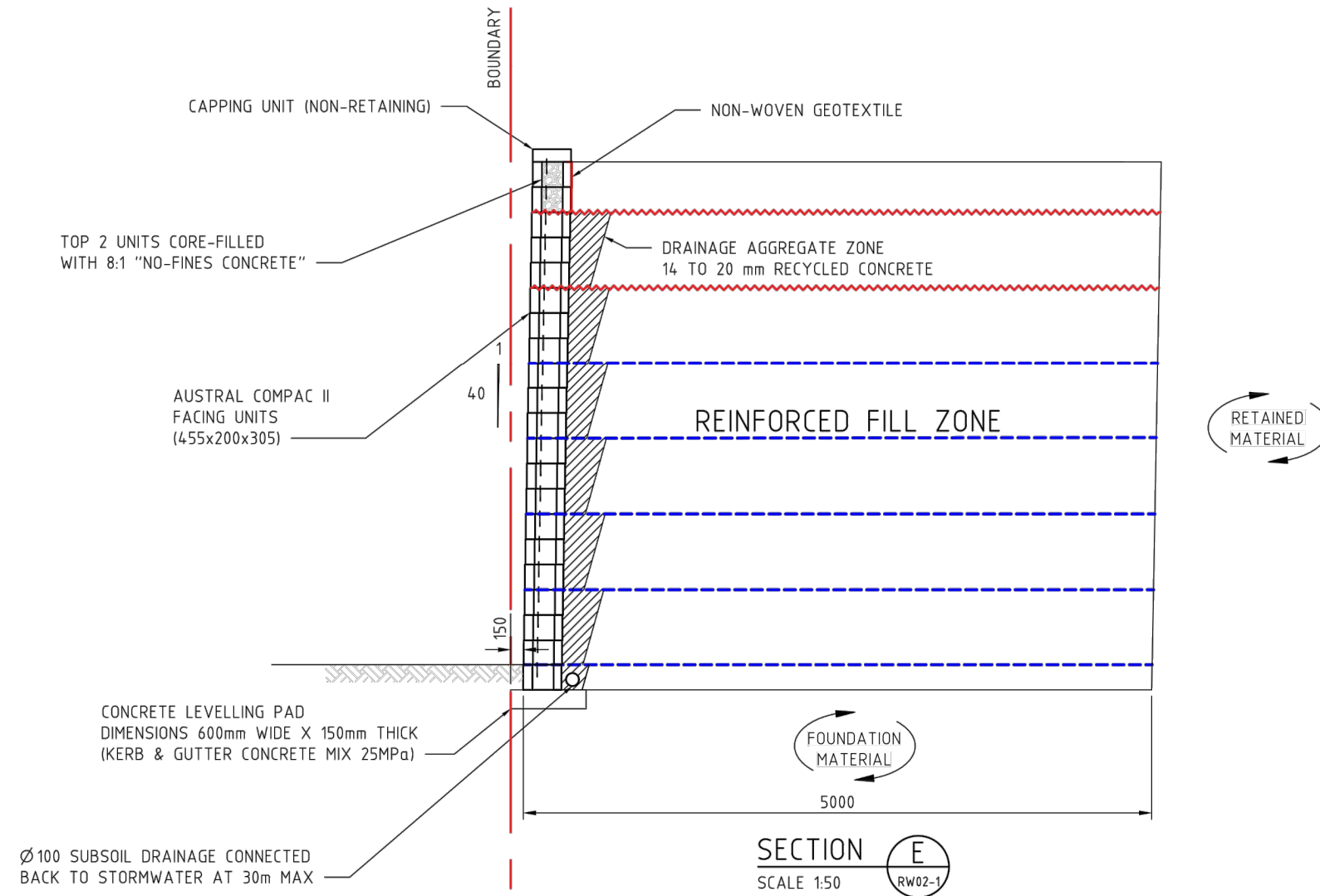
ABN 16 103 223 721  
PHONE (02)9899 2111 FACSIMILE (02)9899 2112  
SYDNEY AUSTRALIA

**ENGINEERING DESIGN SERVICES FOR ALL  
TYPE OF RETAINING STRUCTURES**  
GABIONS, TERRAMESH, CRIB WALLS, SEGMENTAL WALLS  
AND REINFORCED SOIL STRUCTURES



PROJECT TITLE  
CSR STAGE 3  
CLIENT/DEVELOPER  
MULGOA QUARRIES

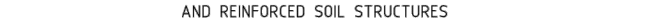
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| RW01 - CROSS SECTION 5 OF 5    |                          |
| PROJECT NO<br>RS 2389          | AUTOCAD REF<br>RS 2389 2 |
| DWG. NO<br>RS-2389-RW01-SEC-05 | REVISION<br>0            |



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Registered Surveyor No. 1677 NO COMMENT  
Date: 14/06/2023

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Dated: 18 March 2022  
and is hereby approved

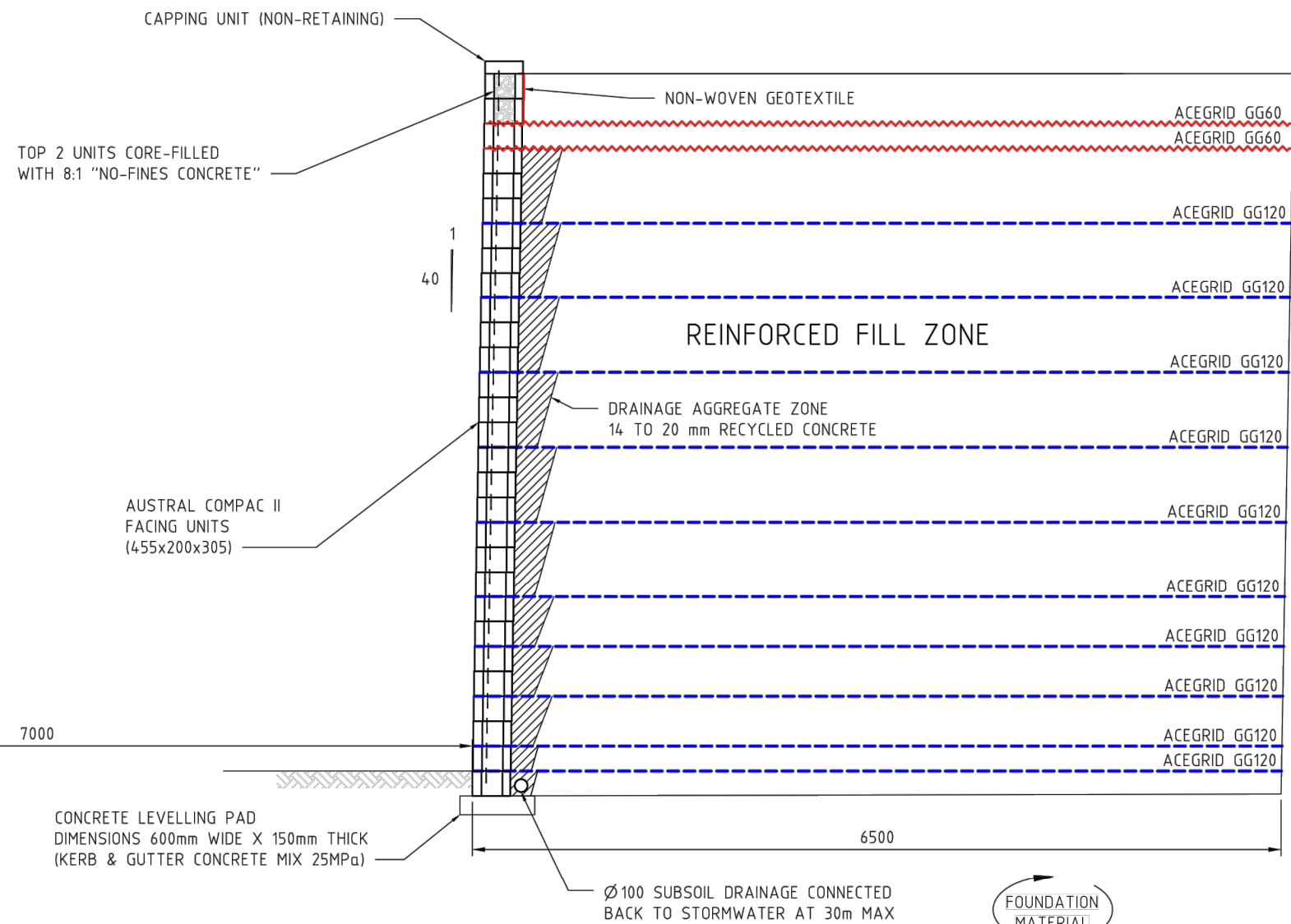
**ISSUED**

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|-----|-----------------------|-------|----------|----------|----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|---------------------------------------------------|---------------------------------------------|-----------------------------|--|
|     |                       |       |          |          |          | <div></div> <div>ABN 16 103 223 721<br/>PHONE (02)9899 2111 FACSIMILE (02)9899 2112<br/>SYDNEY AUSTRALIA</div> | <div>ENGINEERING DESIGN SERVICES FOR ALL<br/>TYPE OF RETAINING STRUCTURES</div> <div>GABIONS, TERRAMESH, CRIB WALLS, SEGMENTAL WALLS<br/>AND REINFORCED SOIL STRUCTURES</div> |  | <div>PROJECT TITLE</div> <div>CSR STAGE 3</div>   |                                             | RW02 - CROSS SECTION 1 OF 3 |  |
|     |                       |       |          |          |          |                                                                                                                                                                                                    | <div>CLIENT/DEVELOPER</div> <div>MULGOA QUARRIES</div>                                                                                                                        |  | <div>PROJECT NO</div> <div>RS 2389</div>          | <div>AUTOCAD REF</div> <div>RS 2389 2</div> |                             |  |
|     |                       |       |          |          |          |                                                                                                                                                                                                    |                                                                                                                                                                               |  | <div>DWG. NO</div> <div>RS-2389-RW02-SEC-01</div> | <div>REVISION</div> <div>0</div>            |                             |  |
| 0   | FOR APPROVAL PURPOSES | BB    | PW       |          | 14-07-21 |                                                                                                                                                                                                    | <div></div> <div>SCALE 1:100 (A3)</div>                                                  |  |                                                   |                                             |                             |  |
| REV | REVISION DESCRIPTION  | DRAWN | DESIGNED | APPROVED | DATE     |                                                                                                                                                                                                    |                                                                                                                                                                               |  |                                                   |                                             |                             |  |
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Registered Surveyor No. 1677 NO COMMENT  
Date: 14/06/2023

BOUNDARY



RETAINED MATERIAL

SECTION F  
SCALE 1:50  
RW02-3

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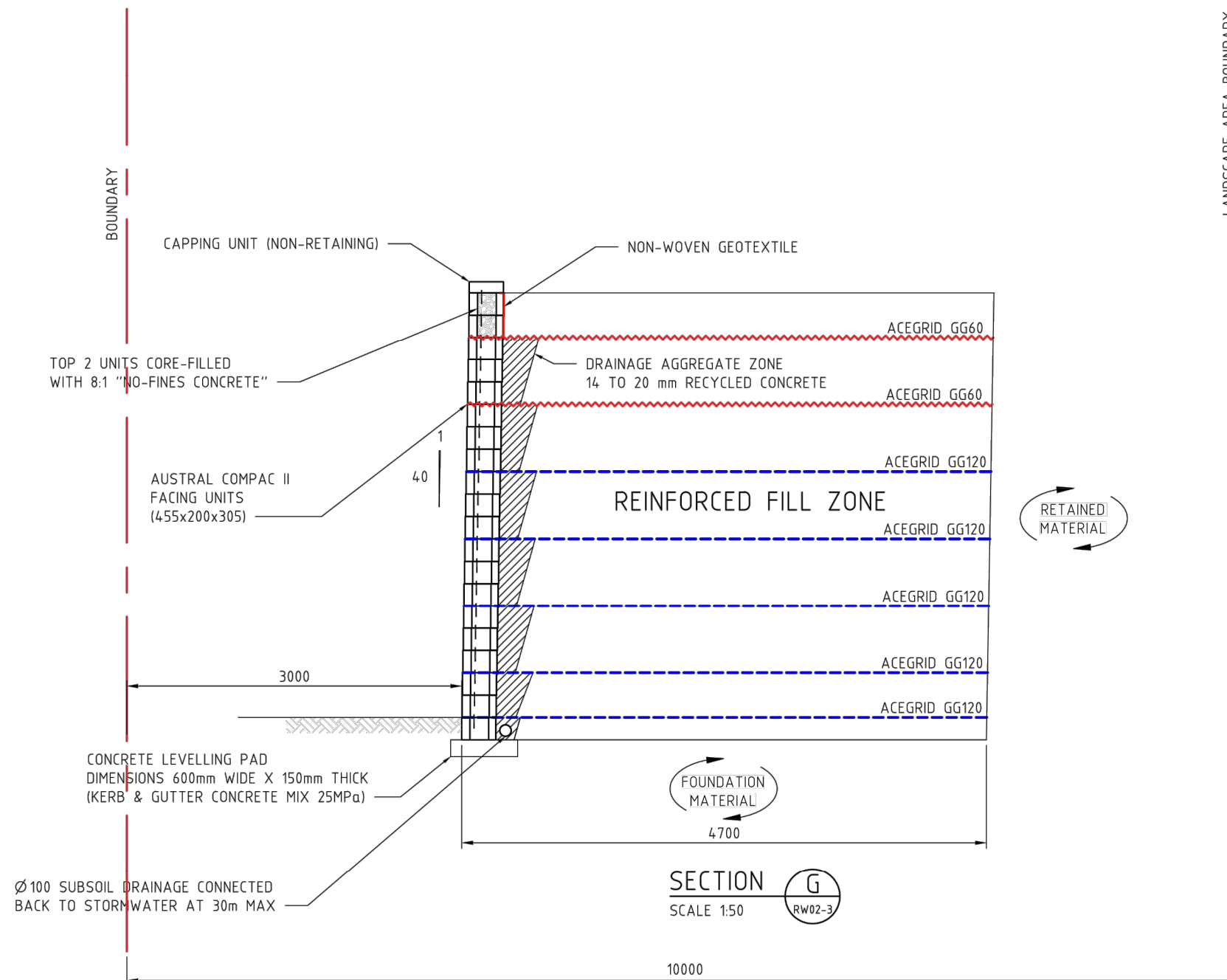
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|     |                       |       |          |          |          | <div><div></div><div>ABN 16 103 223 721<br/>PHONE (02)9899 2111 FACSIMILE (02)9899 2112<br/>SYDNEY AUSTRALIA</div></div> | <div>ENGINEERING DESIGN SERVICES FOR ALL<br/>TYPE OF RETAINING STRUCTURES<br/>GABIONS, TERRAMESH, CRIB WALLS, SEGMENTAL WALLS<br/>AND REINFORCED SOIL STRUCTURES</div> <div><div>2m0246</div><div>SCALE 1:100 (A3)</div></div> | <div>PROJECT TITLE<br/>CSR STAGE 3</div> <div>CLIENT/DEVELOPER<br/>MULGOA QUARRIES</div> | <div>RW02 - CROSS SECTION 2 OF 3</div> <div><div>PROJECT NO<br/>RS 2389</div><div><div>AUTOCAD REF<br/>RS 2389 2</div><div><div>DWG. NO<br/>RS-2389-RW02-SEC-02</div><div>REVISION<br/>0</div></div></div></div> |  |  |  |
|     |                       |       |          |          |          |                                                                                                                          |                                                                                                                                                                                                                                |                                                                                          |                                                                                                                                                                                                                  |  |  |  |
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| 0   | FOR APPROVAL PURPOSES | BB    | PW       |          | 14-07-21 |                                                                                                                          |                                                                                                                                                                                                                                |                                                                                          |                                                                                                                                                                                                                  |  |  |  |
| REV | REVISION DESCRIPTION  | DRAWN | DESIGNED | APPROVED | DATE     |                                                                                                                          |                                                                                                                                                                                                                                |                                                                                          |                                                                                                                                                                                                                  |  |  |  |

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*H. J. Murphy*

Registered Surveyor No. 1677  
Date: 14/06/2023

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| 0   | FOR APPROVAL PURPOSES | BB    | PW       |          | 14-07-21 |
| REV | REVISION DESCRIPTION  | DRAWN | DESIGNED | APPROVED | DATE     |

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| ABN 16 103 223 721<br>PHONE (02)9899 2111 FACSIMILE (02)9899 2112<br>SYDNEY AUSTRALIA |
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| ENGINEERING DESIGN SERVICES FOR ALL<br>TYPE OF RETAINING STRUCTURES<br>GABIONS, TERRAMESH, CRIB WALLS, SEGMENTAL WALLS<br>AND REINFORCED SOIL STRUCTURES |
| 2m 0 2 4 6<br>SCALE 1:100 (A3)                                                                                                                           |

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| PROJECT TITLE<br>CSR STAGE 3        |
| CLIENT/DEVELOPER<br>MULGOA QUARRIES |

|                       |                          |               |
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| PROJECT NO<br>RS 2389 | AUTOCAD REF<br>RS 2389 2 | REVISION<br>0 |
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THIS DRAWING AND DESIGN REMAINS THE PROPERTY OF RETAINING SOLUTIONS AND MAY NOT BE REPRODUCED WITHOUT THE PRIOR WRITTEN APPROVAL FROM RETAINING SOLUTIONS

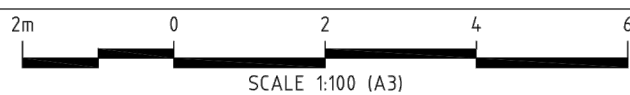


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| 0   | FOR APPROVAL PURPOSES | BB    | PW       |          | 21-07-21 |
| REV | REVISION DESCRIPTION  | DRAWN | DESIGNED | APPROVED | DATE     |

ABN 16 103 223 721  
PHONE (02)9899 2111 FACSIMILE (02)9899 2112  
SYDNEY AUSTRALIA

ENGINEERING DESIGN SERVICES FOR ALL  
TYPE OF RETAINING STRUCTURES  
GABIONS, TERRAMESH, CRIB WALLS, SEGMENTAL WALLS  
AND REINFORCED SOIL STRUCTURES



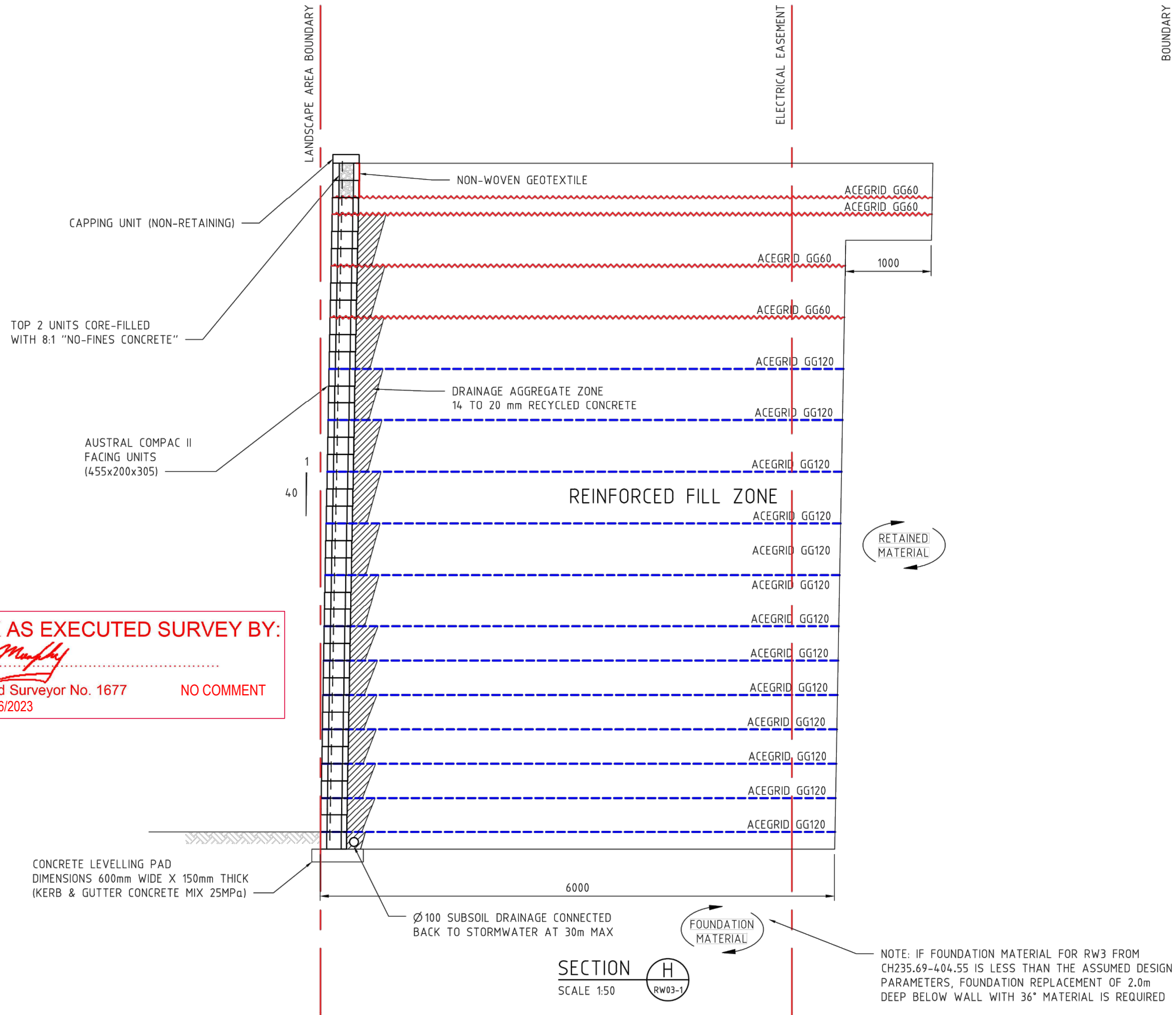
PROJECT TITLE  
CSR STAGE 3

CLIENT/DEVELOPER  
MULGOA QUARRIES

RW03 - CROSS SECTION

|                                |                          |               |
|--------------------------------|--------------------------|---------------|
| PROJECT NO<br>RS 2389          | AUTOCAD REF<br>RS 2389 2 | REVISION<br>0 |
| DWG. NO<br>RS-2389-RW03-SEC-01 |                          |               |

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*H. F. Murphy*  
Registered Surveyor No. 1677 NO COMMENT  
Date: 14/06/2023



SECTION H  
SCALE 1:50  
RW03-1

NOTE: IF FOUNDATION MATERIAL FOR RW3 FROM CH235.69-404.55 IS LESS THAN THE ASSUMED DESIGN PARAMETERS, FOUNDATION REPLACEMENT OF 2.0m DEEP BELOW WALL WITH 36" MATERIAL IS REQUIRED

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Dated: 18 March 2022  
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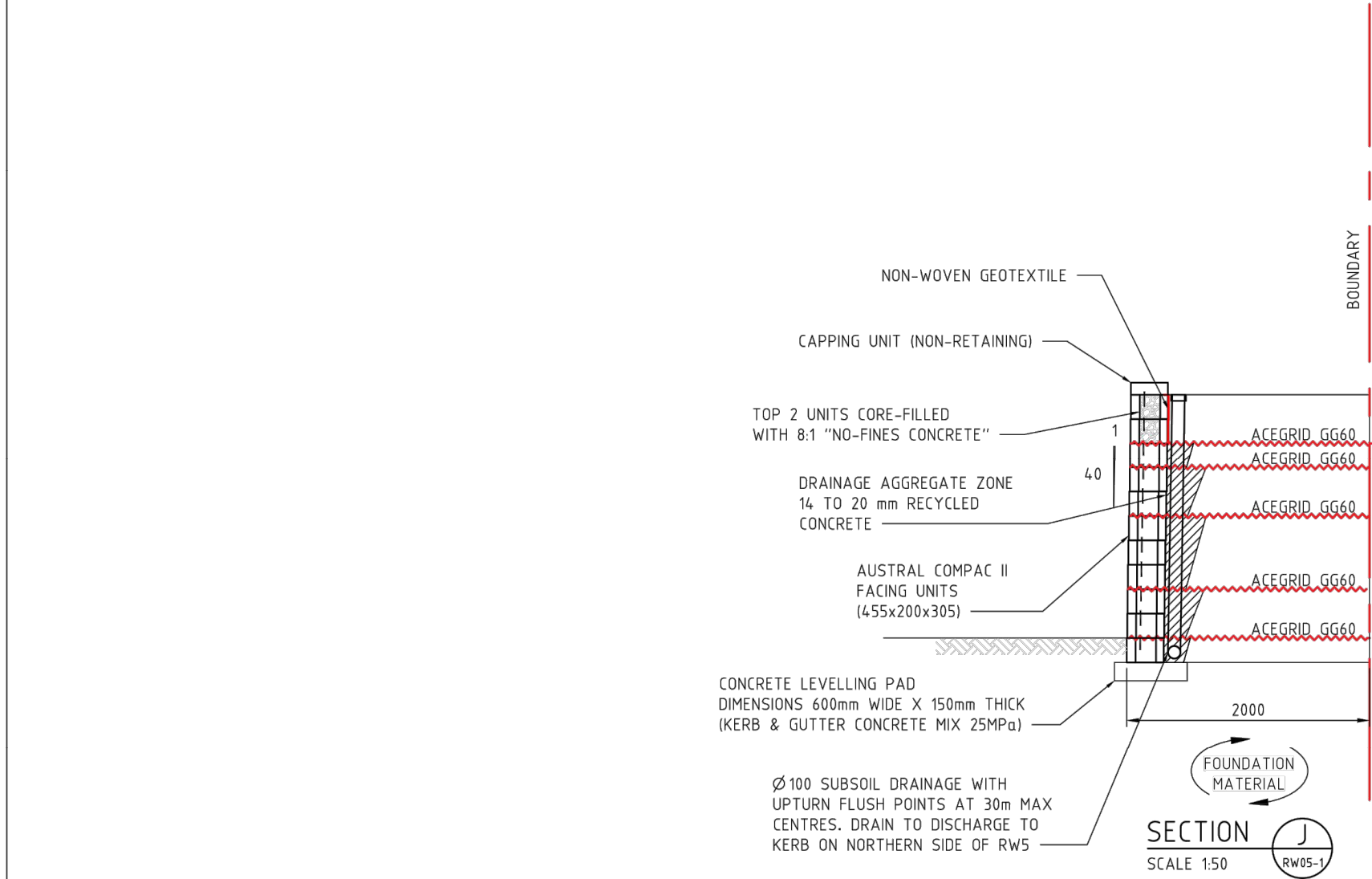
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Subdivision Works Certificate.  
No. 893.13/2013  
Dated. 18 March 2022

and is hereby approved in

|                           |                                |
|---------------------------|--------------------------------|
| RW03 & 04 - CROSS SECTION |                                |
| PROJECT NO<br>RS 2389     | AUTOCAD REF<br>RS 2389 2       |
|                           | DWG. NO<br>RS-2389-RW03-SEC-02 |
|                           | REVISION<br>0                  |



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| REV | REVISION DESCRIPTION            | DRAWN | DESIGNED | APPROVED | DATE     |
|-----|---------------------------------|-------|----------|----------|----------|
| 1   | SUBSOIL DRAINAGE DETAIL AMENDED | BB    | PW       |          | 21-02-22 |
| 0   | FOR APPROVAL PURPOSES           | BB    | PW       |          | 14-07-21 |

ABN 16 103 223 721  
PHONE (02)9899 2111 FACSIMILE (02)9899 2112  
SYDNEY AUSTRALIA

**ENGINEERING DESIGN SERVICES FOR ALL  
TYPE OF RETAINING STRUCTURES**  
GABIONS, TERRAMESH, CRIB WALLS, SEGMENTAL WALLS  
AND REINFORCED SOIL STRUCTURES

2m 0 2 4 6  
SCALE 1:100 (A3)

PROJECT TITLE  
CSR STAGE 3

CLIENT/DEVELOPER  
MULGOA QUARRIES

RW05 - CROSS SECTION 1 OF 2

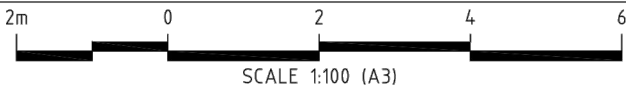
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|     |                                 |       |          |          |          |
| 1   | SUBSOIL DRAINAGE DETAIL AMENDED | BB    | PW       |          | 21-02-22 |
| 0   | FOR APPROVAL PURPOSES           | BB    | PW       |          | 14-07-21 |
| REV | REVISION DESCRIPTION            | DRAWN | DESIGNED | APPROVED | DATE     |

ABN 16 103 223 721  
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SYDNEY AUSTRALIA

ENGINEERING DESIGN SERVICES FOR ALL  
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GABIONS, TERRAMESH, CRIB WALLS, SEGMENTAL WALLS  
AND REINFORCED SOIL STRUCTURES

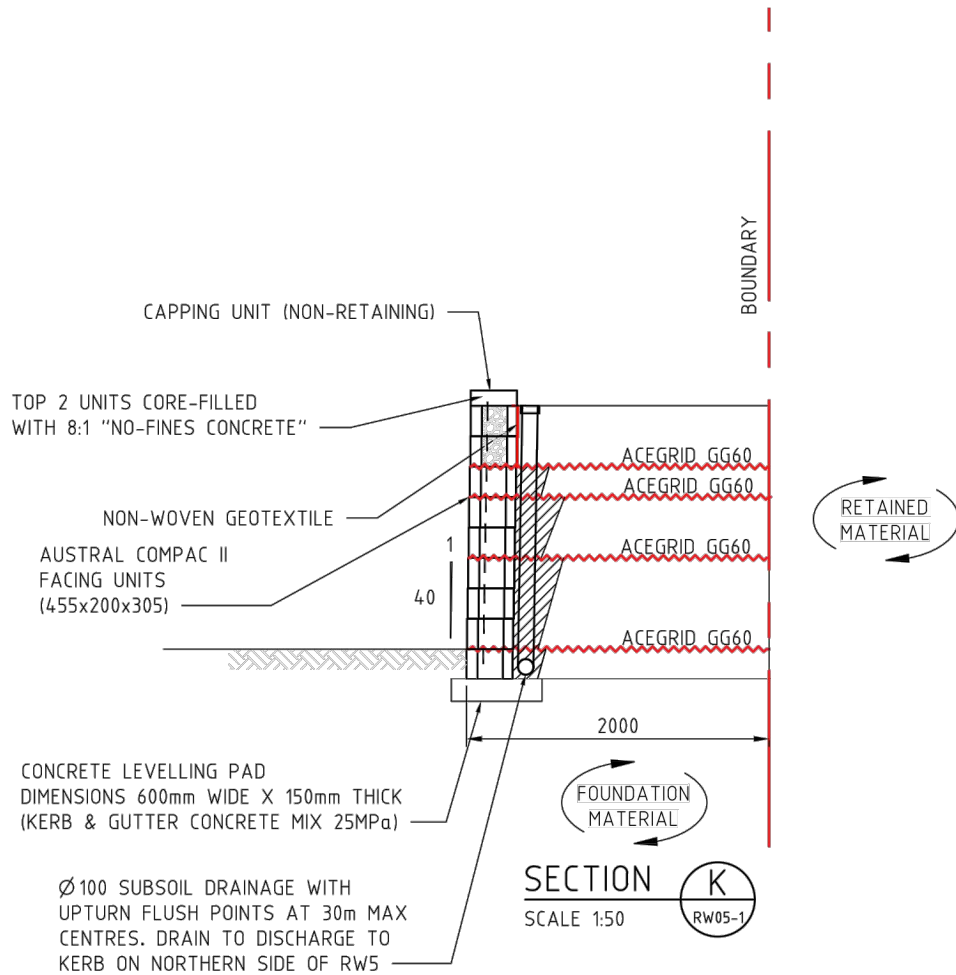


PROJECT TITLE  
CSR STAGE 3

CLIENT/DEVELOPER  
MULGOA QUARRIES

RW05 - CROSS SECTION 2 OF 2

|                                |                          |               |
|--------------------------------|--------------------------|---------------|
| PROJECT NO<br>RS 2389          | AUTOCAD REF<br>RS 2389 2 | REVISION<br>1 |
| DWG. NO<br>RS-2389-RW05-SEC-02 |                          |               |



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*H. J. Murphy*

Registered Surveyor No. 1677  
Date: 14/06/2023

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Dated. 18 March 2022

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ISSUED



| KEYSTONE CAPPING UNIT |     |
|-----------------------|-----|
| WIDTH                 | 455 |
| DEPTH                 | 315 |
| HEIGHT                | 100 |

| KEYSTONE COMPAC II UNIT |     |
|-------------------------|-----|
| WIDTH                   | 455 |
| DEPTH                   | 315 |
| HEIGHT                  | 200 |

KEYSTONE UNIT  
COMPAC II - SPLIT FACING

APPEARANCE FOR  
FLUSHFACE UNIT

APPEARANCE FOR  
FLUSHFACE UNIT

KEYSTONE COMPAC II UNIT ISOMETRIC SECTIONAL VIEW  
(SPLIT-FACE)  
NOT TO SCALE

KEYSTONE COMPAC II UNIT  
(STANDARD BEVELED)  
NOT TO SCALE

KEYSTONE CAPPING UNIT  
(STANDARD, STRAIGHT SIDED)  
NOT TO SCALE

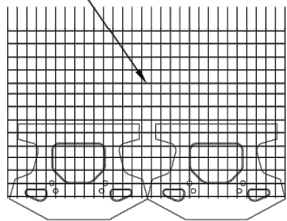
WORK AS EXECUTED SURVEY BY:

*H. J. Murphy*

Registered Surveyor No. 1677  
Date: 14/06/2023

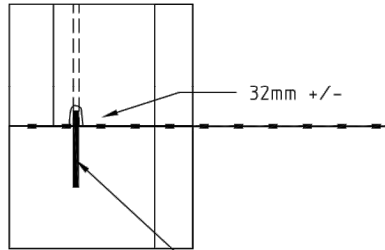
NO COMMENT

GEOGRID IS TO BE PLACED  
ON LEVEL BACKFILL AND  
EXTENDED OVER PINS.  
PLACE NEXT UNIT, PULL  
GEOGRID TIGHT AND BACKFILL.  
STAKE AS REQUIRED.



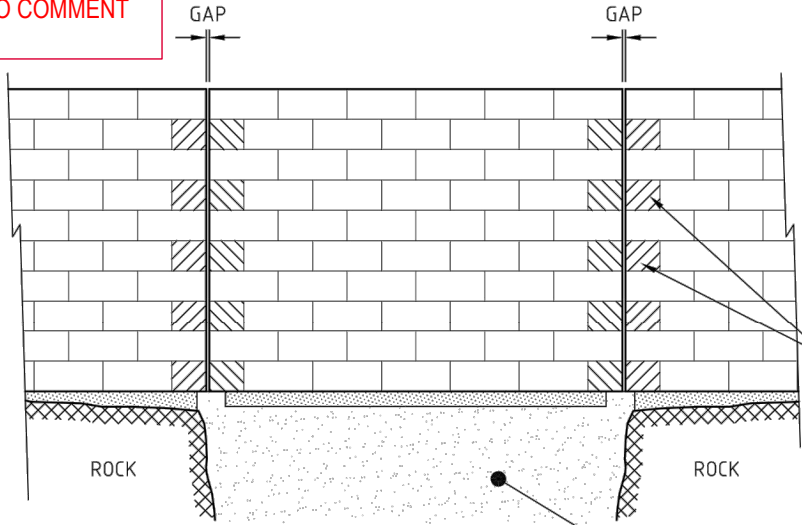
GRID/PIN CONNECTION  
NOT TO SCALE

200mm MIN. COVERAGE  
OF GEOGRID



GRID CONNECTION  
NOT TO SCALE

PROVIDE 2 No 12Ø FIBREGLASS  
PINS PER BLOCK



DETAIL AT CONTROL JOINTS  
SCALE 1:50

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No. 893.13/2013  
Dated: 18 March 2022

and is hereby approved

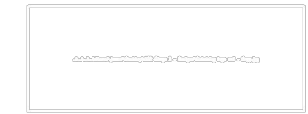


CONTROL JOINT ALTERNATE  
BLOCKS CUT ON SITE IN  
HALF TO PROVIDE

FOUNDATION AS AN  
EXISTING FILL CONDITION

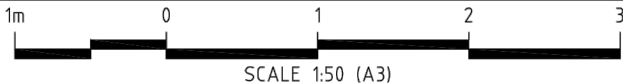
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| REV | REVISION DESCRIPTION  | DRAWN | DESIGNED | APPROVED | DATE     |
|-----|-----------------------|-------|----------|----------|----------|
| 0   | FOR APPROVAL PURPOSES | HE    | BAI      | BAI      | 17-04-18 |



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SYDNEY AUSTRALIA

ENGINEERING DESIGN SERVICES FOR ALL  
TYPE OF RETAINING STRUCTURES  
GABIONS, TERRAMESH, CRIB WALLS, SEGMENTAL WALLS  
AND REINFORCED SOIL STRUCTURES



PROJECT TITLE

STANDARD  
DRAWING SET

CLIENT/DEVELOPER

STANDARD DRAWING SET

KEYSTONE STANDARD DETAILS  
SHEET 1 OF 5

PROJECT NO

RS-INFO

AUTOCAD REF RS-INFO

DWG. NO

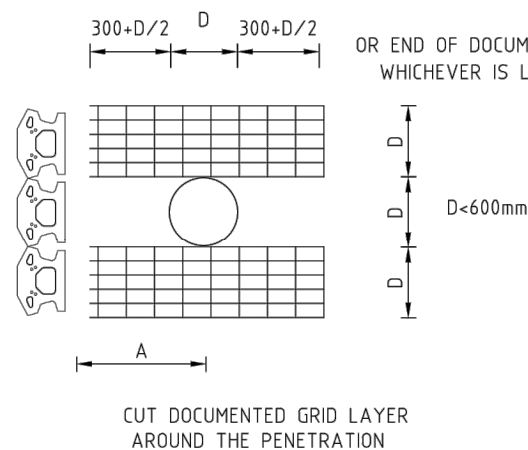
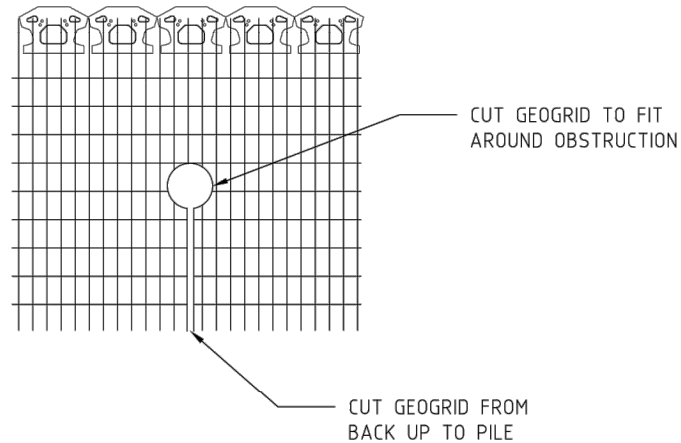
RS-INFO-KS-DET-01

REVISION

0

### OBSTRUCTIONS

IF A VERTICAL PENETRATION MUST PASS THROUGH THE REINFORCED SOIL ZONE, ADDITIONAL GEOGRID SHALL BE PLACED AS PER THE FOLLOWING SKETCHES



**PLAN**  
NOT TO SCALE

### NOTE:

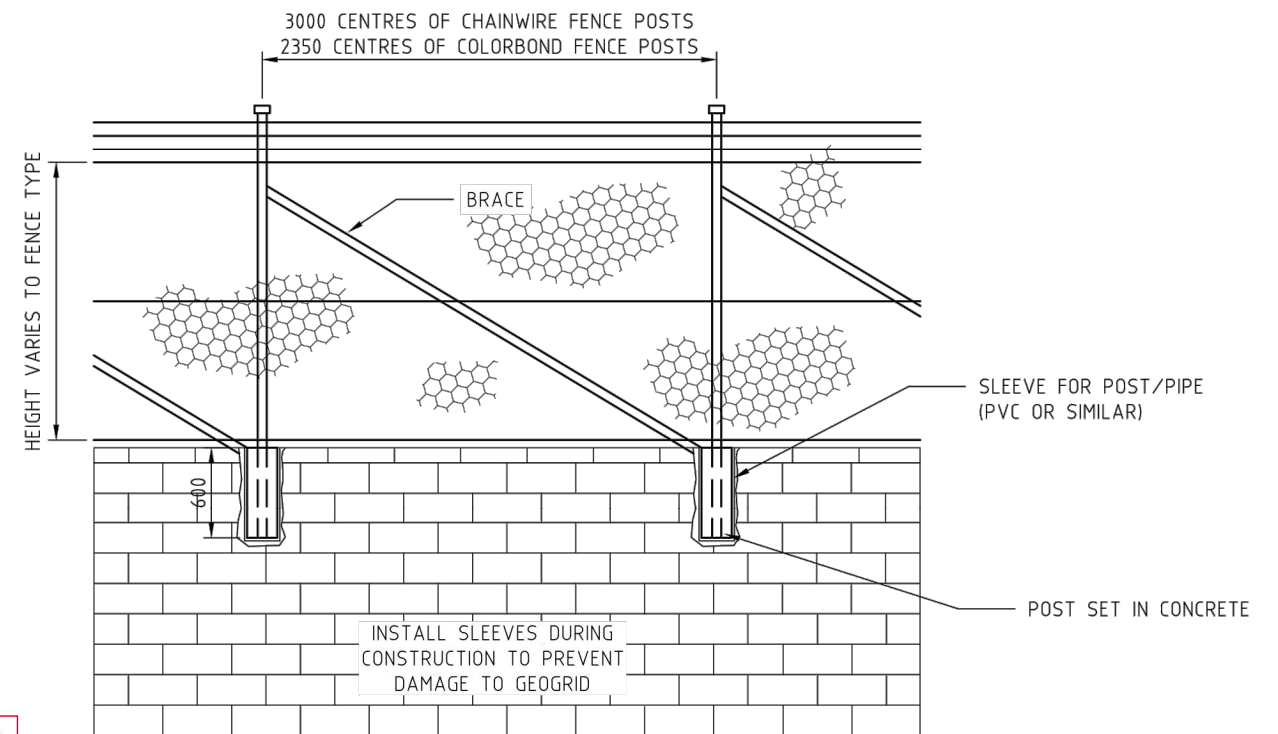
WHERE DIMENSION "A" IS LESS THAN 300+D/2, PLACE EXTRA GRID AT BLOCK COURSE BELOW THE DOCUMENTED GEOGRID LEVEL AND ANCHOR FULLY TO FACING TO ENSURE THAT THERE IS AT LEAST 75mm OF SOIL BETWEEN DOCUMENTED GRID AND ADDITIONAL GRID

### WORK AS EXECUTED SURVEY BY:

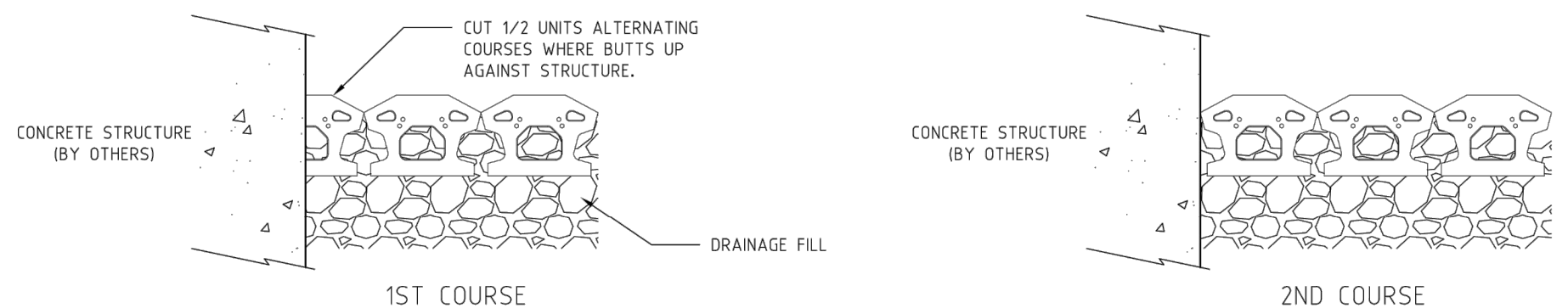
*H. J. Murphy*

Registered Surveyor No. 1677  
Date: 14/06/2023

NO COMMENT



**SRW - CWFENCE POST DETAIL**  
SCALE 1:50



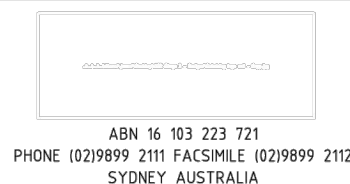
**CONSTRUCTION ABUTING WALLS**  
SCALE 1:25

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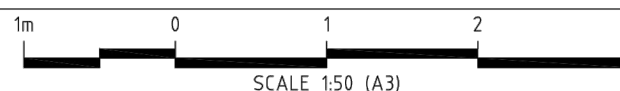
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**ENGINEERING DESIGN SERVICES FOR ALL**  
**TYPE OF RETAINING STRUCTURES**  
GABIONS, TERRAMESH, CRIB WALLS, SEGMENTAL WALLS  
AND REINFORCED SOIL STRUCTURES



PROJECT TITLE  
**STANDARD  
DRAWING SET**

CLIENT/DEVELOPER  
**STANDARD DRAWING SET**

**KEYSTONE STANDARD DETAILS  
SHEET 2 OF 5**

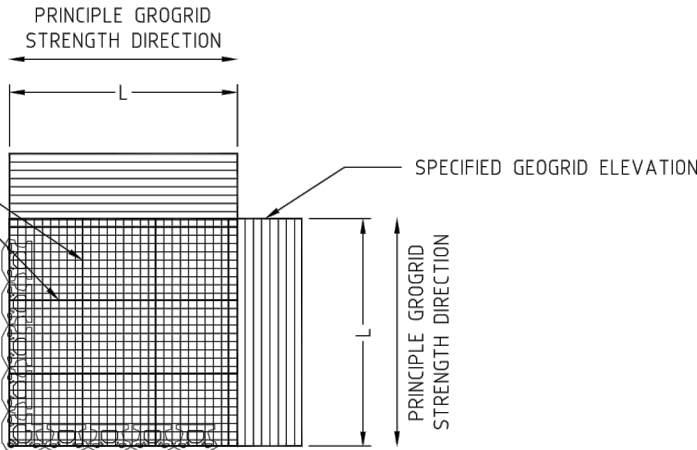
| PROJECT NO | AUTOCAD REF | REVISION |
|------------|-------------|----------|
| RS-INFO    | RS-INFO     | 0        |

### FOR INFORMATION USE ONLY

REINFORCEMENT PLACEMENT FOR  
EXTERNAL CONVEX CORNERS

75mm OF SOIL REQUIRED BETWEEN OVERLAPPING  
GEOGRID FOR PROPER ANCHORAGE IF BOTH LAYERS  
PLACED AT THE SAME ELEVATION

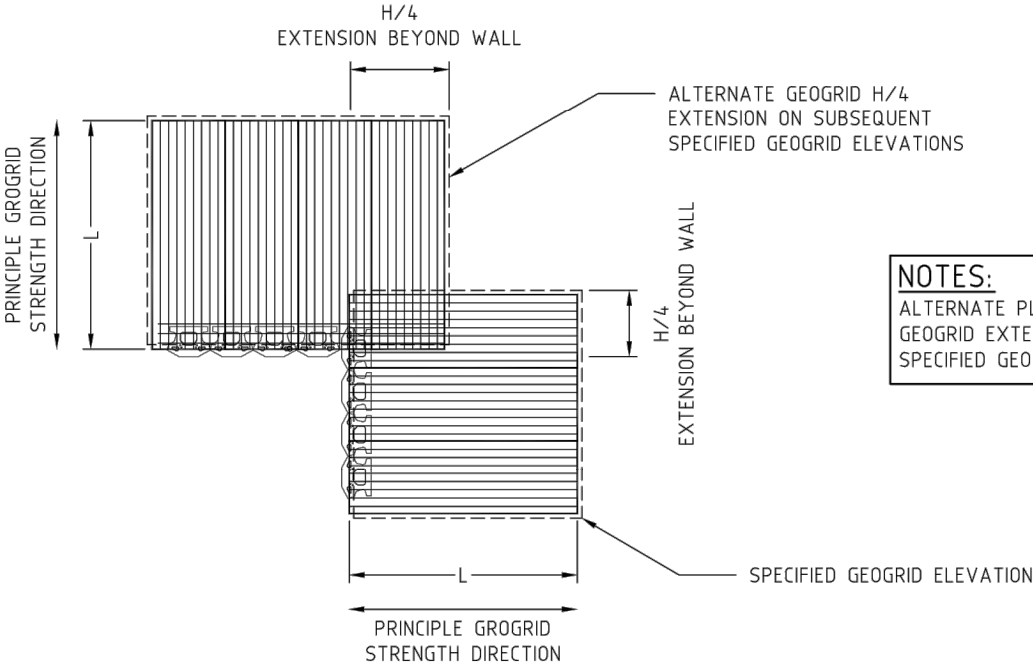
ALTERNATIVE TO OVERLAPPING IN A SINGLE  
COURSE, GEOGRID COULD BE PLACED IN THE  
PERPENDICULAR PRINCIPAL DIRECTION IN THE  
CROSS-OVER AREA ON THE SUCCEEDING COURSE



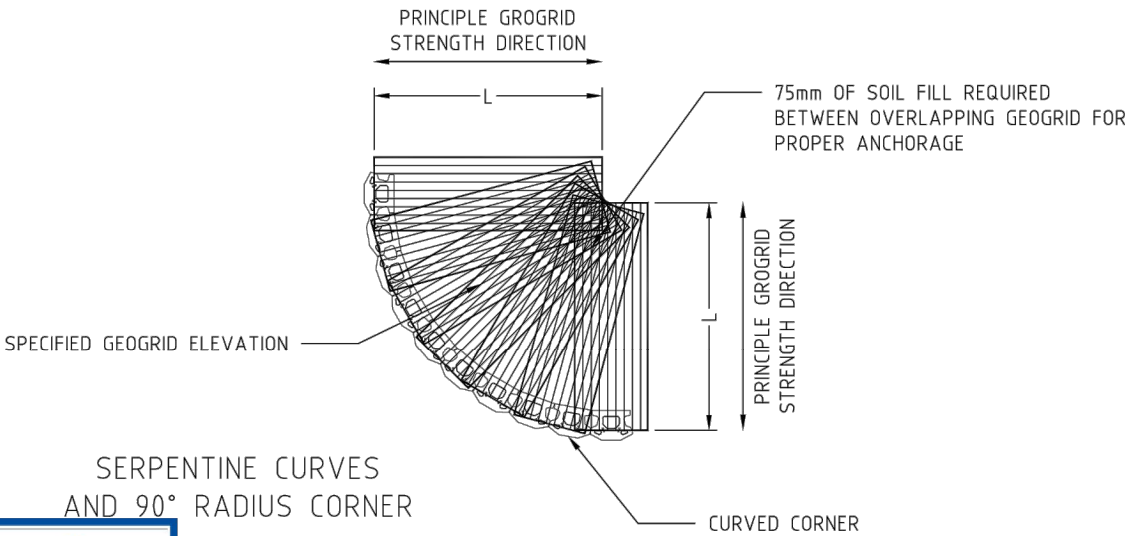
**NOTE:**  
THIS DRAWING IS INTENDED AS A  
GUIDE ONLY AND IS NOT PROJECT SPECIFIC

**WORK AS EXECUTED SURVEY BY:**  
*H. J. Murphy*  
Registered Surveyor No. 1677 NO COMMENT  
Date: 14/06/2023

REINFORCEMENT PLACEMENT FOR  
INTERNAL CONVEX CORNERS



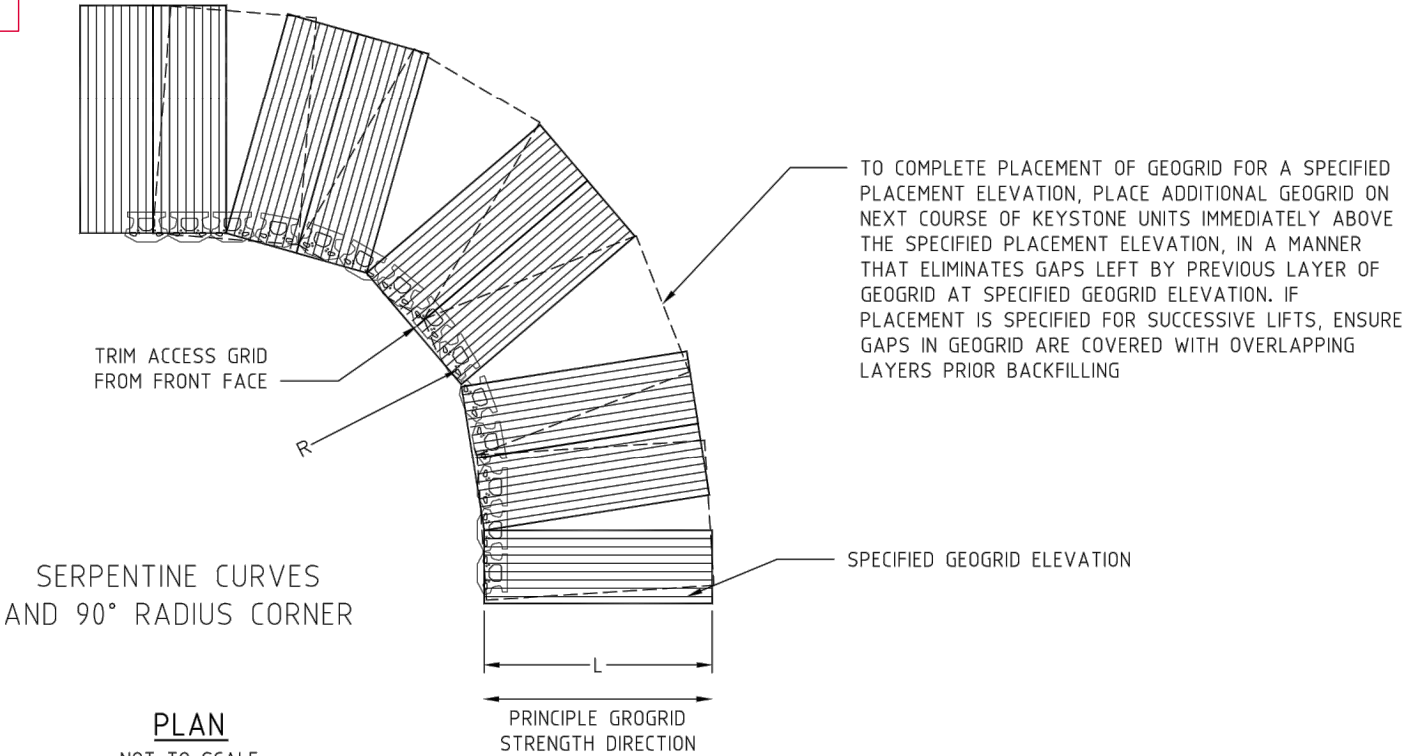
**NOTES:**  
ALTERNATE PLACEMENT OF  
GEOGRID EXTENSION ON  
SPECIFIED GEOGRID ELEVATIONS



SERPENTINE CURVES  
AND 90° RADIUS CORNER

CURVED CORNER

**PLAN**  
NOT TO SCALE



SERPENTINE CURVES  
AND 90° RADIUS CORNER

**PLAN**  
NOT TO SCALE

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and is hereby approved



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SYDNEY AUSTRALIA

**ENGINEERING DESIGN SERVICES FOR ALL  
TYPE OF RETAINING STRUCTURES**  
GABIONS, TERRAMESH, CRIB WALLS, SEGMENTAL WALLS  
AND REINFORCED SOIL STRUCTURES

SCALE N.T.S

PROJECT TITLE  
**STANDARD  
DRAWING SET**

CLIENT/DEVELOPER  
**STANDARD DRAWING SET**

**KEYSTONE STANDARD DETAILS  
SHEET 3 OF 5**

|                              |                        |               |
|------------------------------|------------------------|---------------|
| PROJECT NO<br><b>RS-INFO</b> | AUTOCAD REF<br>RS-INFO | REVISION<br>0 |
|------------------------------|------------------------|---------------|

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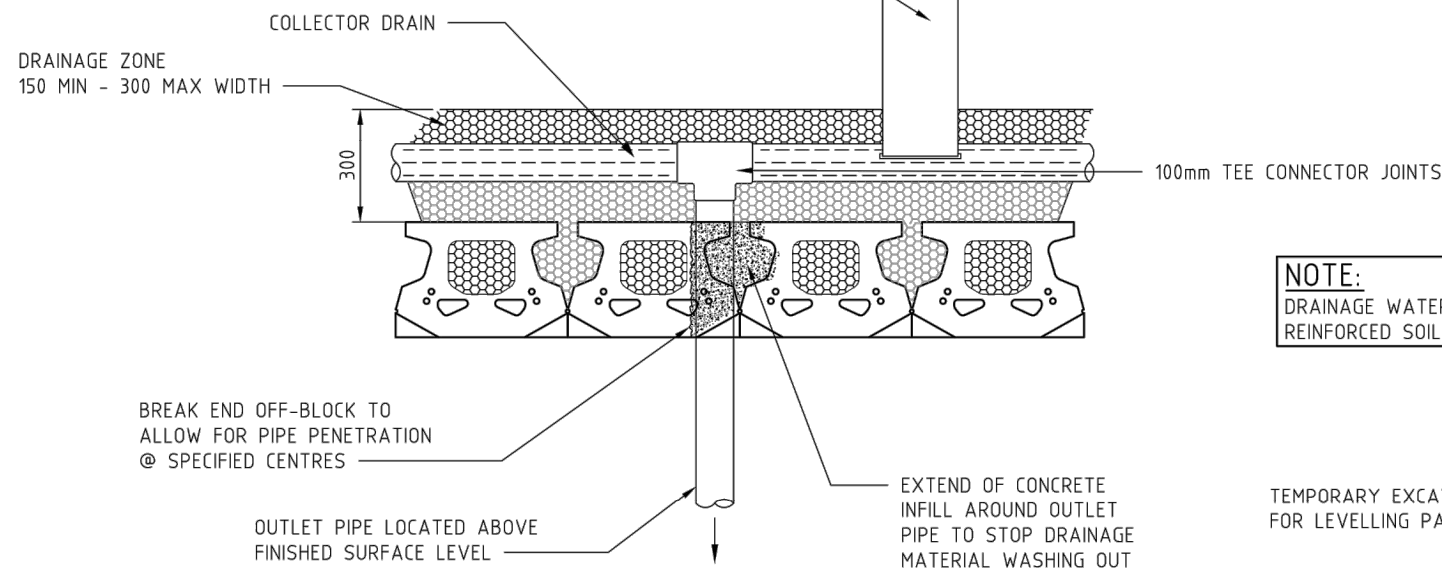
**NOTE:**  
CHIMNEY DRAINAGE DETAILS AT REAR OF REINFORCED FILL ZONE TO BE DESIGNED AND SPECIFIED BY A SUITABLY QUALIFIED AND EXPERIENCED GEOTECHNICAL ENGINEER.

**SUGGESTIONS:**  
PARTIAL COVERAGE - STRIPDRAIN OR CORDRAIN (30% TO 50% MAX)  
FULL 100% COVERAGE - GRAVEL DRAIN GEOTEXTILE ENCAPSULATED

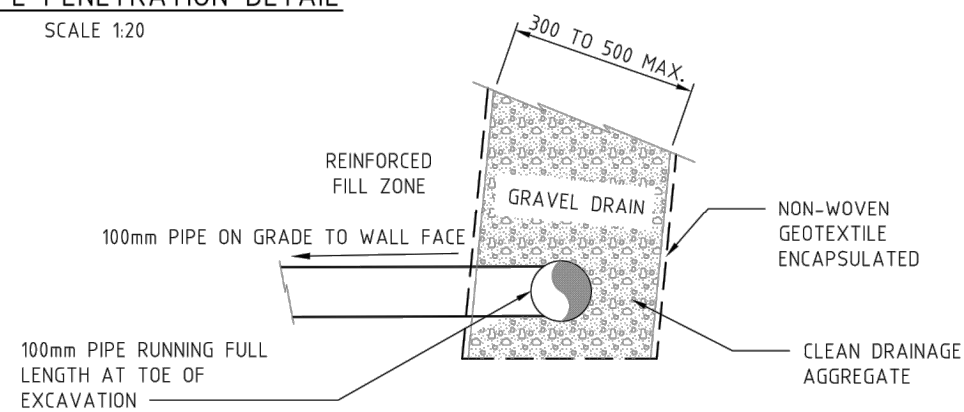
SUGGESTED DRAINAGE PROVISIONS BENEATH, IN FRONT OF AND BEHIND THE REINFORCED SOIL STRUCTURE ARE INDICATED. INCORPORATION OF SUCH DRAINAGE SUGGESTIONS INTO THE DESIGN IS SUBJECT TO ASSESSMENT UPON FURTHER TESTING OF REINFORCED FILL, RETAINED AND FOUNDATION MATERIALS.

INTERNAL AND EXTERNAL DRAINAGE PROVISIONS SHALL BE DESIGNED AND SPECIFIED BY A SUITABLY QUALIFIED AND EXPERIENCED GEOTECHNICAL ENGINEER

AG PIPE OF STRIPDRAIN MEDIUM TO BE TAKEN FROM REAR OF REINFORCED FILL ZONE @ SPECIFIED CENTRES THROUGH TO SLOT CUT IN COLLECTOR DRAIN & STRIP DRAIN INSERTED THROUGH PIPE

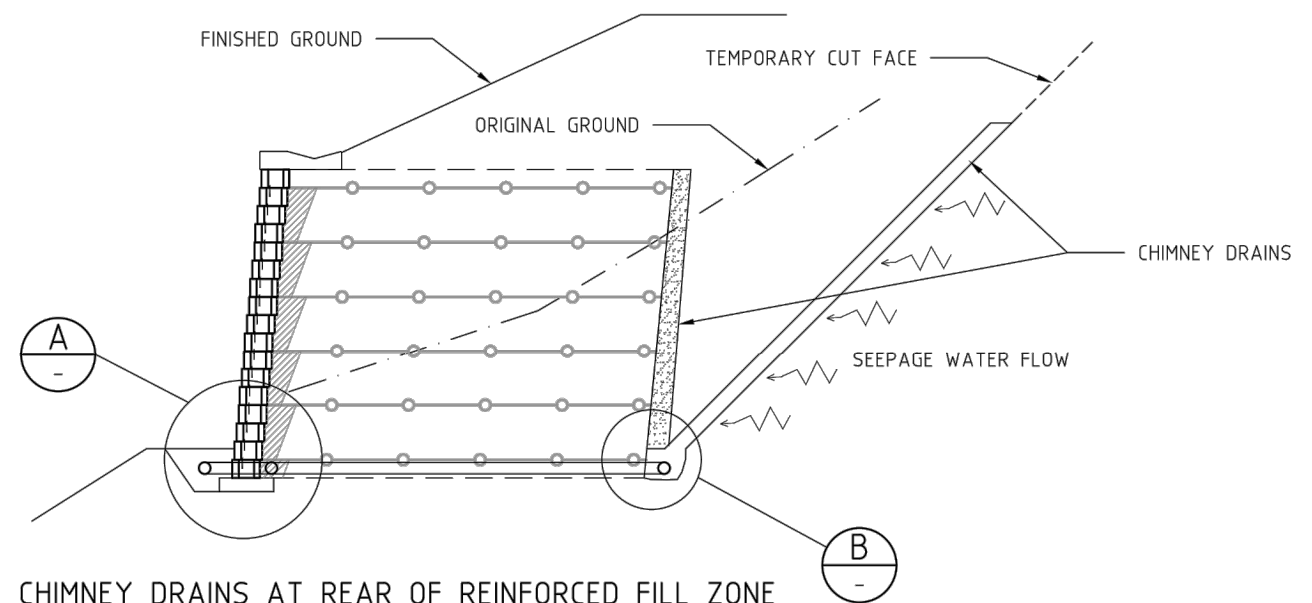


OUTLET PIPE PENETRATION DETAIL  
SCALE 1:20



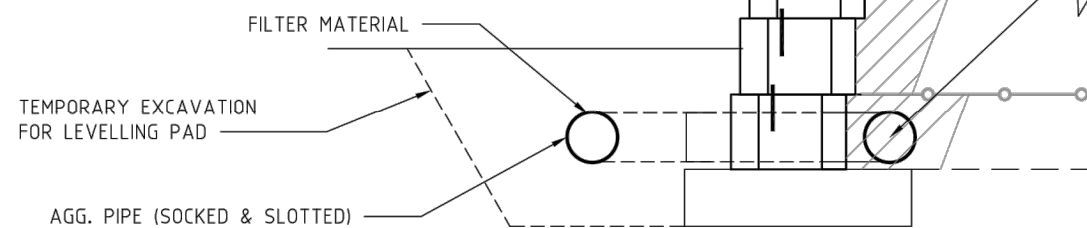
100% FULL COVERAGE OF CHIMNEY DRAINS

DETAIL B  
SCALE N.T.S.



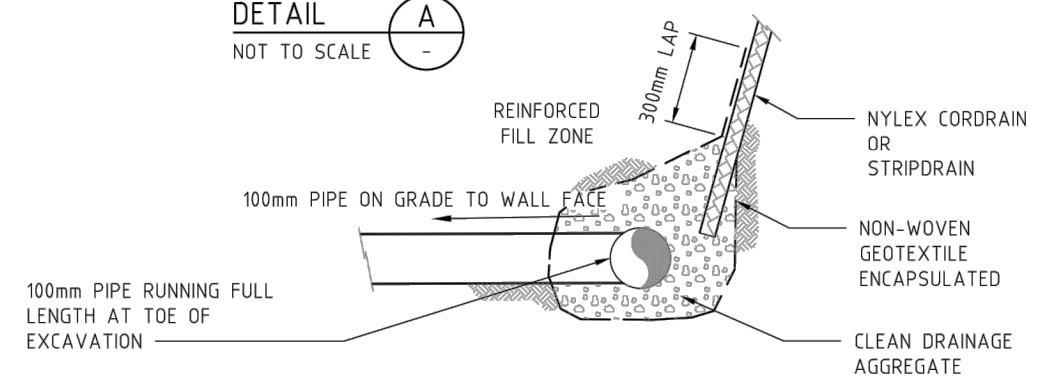
CHIMNEY DRAINS AT REAR OF REINFORCED FILL ZONE  
(LOW TO MEDIUM TO HIGH WATER FLOW)

**NOTE:**  
DRAINAGE WATER MUST BE ABLE TO DRAIN AWAY FROM THE REINFORCED SOIL WALL TO AVOID PONDING IN FRONT OF THE WALL



DRAINAGE AT TOE OF WALL FACE

DETAIL A  
NOT TO SCALE



PARTIAL COVERAGE OF CHIMNEY DRAINS

DETAIL B  
SCALE N.T.S.

REFER TO OUTLET PIPE PENETRATION DETAIL. PURPOSE OF OUTLET IS TO CONTROL WATER PRESSURE ACTING ON THE FACING AND NOT INTENDED TO DRAIN THE FOUNDATION

**WORK AS EXECUTED SURVEY BY:**  
*H. J. Murphy*  
Registered Surveyor No. 1677  
Date: 14/06/2023  
NO COMMENT

**Fairfield City Council**

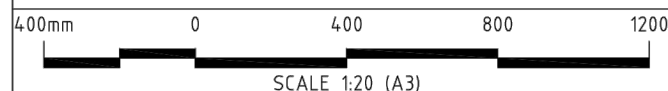
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SYDNEY AUSTRALIA

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GABIONS, TERRAMESH, CRIB WALLS, SEGMENTAL WALLS  
AND REINFORCED SOIL STRUCTURES



PROJECT TITLE  
STANDARD  
DRAWING SET

CLIENT/DEVELOPER  
STANDARD DRAWING SET

KEYSTONE STANDARD DETAILS  
SHEET 4 OF 5

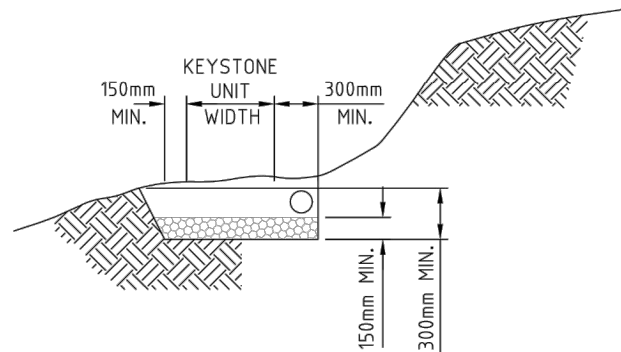
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|-----------------------|------------------------|---------------|
| PROJECT NO<br>RS-INFO | AUTOCAD REF<br>RS-INFO | REVISION<br>0 |
|-----------------------|------------------------|---------------|

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# TYPICAL CONSTRUCTION SEQUENCE

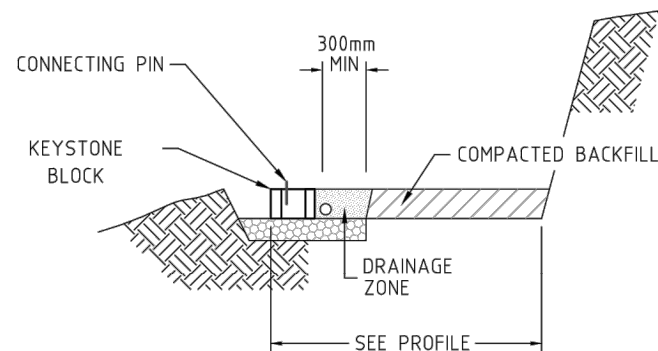
## STEP 1

- EXCAVATE TRENCH FOR LEVEL BASE.
- PROVIDE LEVELLING PAD FOR BASE OF WALL (UNREINFORCED CONCRETE KERB&GUTTER MIX OR AS REQUIRED BY FOUNDATION CONDITIONS).



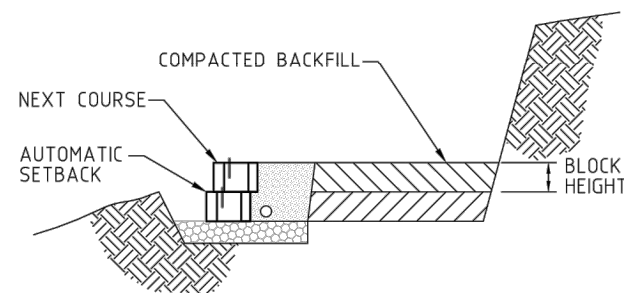
## STEP 2

- CHECK LEVEL OF BASE COURSE, LAY FIRST ROW OF BLOCKS
- CHECK ALL LINE, GRADE, AND CURVES.
- PLACE AND COMPACT BACKFILL TO TOP OF BLOCKS, ENSURING BACKFILL IS LEVEL AND UNIFORM
- INSTALL CONNECTING PINS INTO BLOCKS.
- PLACE DRAINAGE LAYER (GRANULAR MATERIAL) IN THE ZONE IMMEDIATELY BEHIND BLOCKS.
- SWEEP TOP OF BLOCK IN PREPARATION FOR NEXT COURSE.



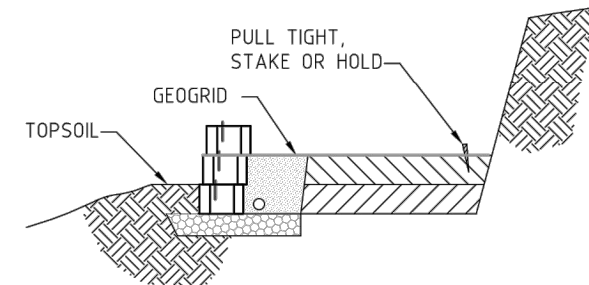
## STEP 3

- INSTALL NEXT LAYER OF KEYSTONE BLOCKS.
- PLACE NEXT BLOCK, PUSH FORWARD TOWARD EXPOSED FACE, UNTIL IT IS RESTRAINED BY THE PINS FROM THE PREVIOUS COURSE.
- PLACE AND COMPACT BACKFILL TO TOP OF BLOCKS, ENSURING BACKFILL IS LEVEL AND UNIFORM
- INSTALL CONNECTING PINS INTO BLOCKS.
- PLACE DRAINAGE LAYER (GRANULAR MATERIAL) IN THE ZONE IMMEDIATELY BEHIND BLOCKS.
- SWEEP TOP OF BLOCK IN PREPARATION FOR NEXT COURSE.
- REPEAT STEP 3, UNTIL GEOGRID REINFORCEMENT IS REQUIRED



## STEP 4

- PLACE GEOGRID REINFORCEMENT AT CORRECT LOCATION. (REFER TO WALL ELEVATIONS FOR GEOGRID LENGTH, GRADE & VERTICAL SPACING)
- PLACE NEXT BLOCK, PUSH FORWARD TOWARD EXPOSED FACE, UNTIL IT IS RESTRAINED BY THE PINS FROM THE PREVIOUS COURSE WHILE STANDING ON GEOGRID REINFORCEMENT.
- PULL GEOGRID TIGHT, KEEP TENSION APPLIED TILL BACKFILL IS PLACED. STAKES MAY BE USED TO MAINTAIN TENSION.
- FINISH BACKFILL SPREADING AND COMPACTION.



WORK AS EXECUTED SURVEY BY:

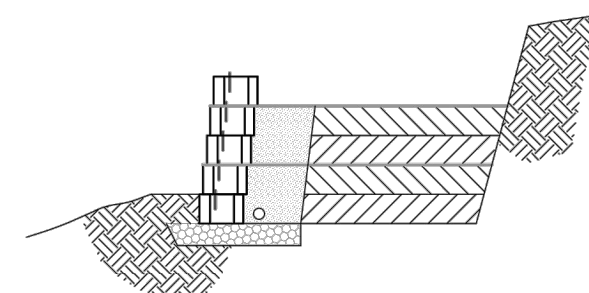
*H. J. Murphy*

Registered Surveyor No. 1677  
Date: 14/06/2023

NO COMMENT

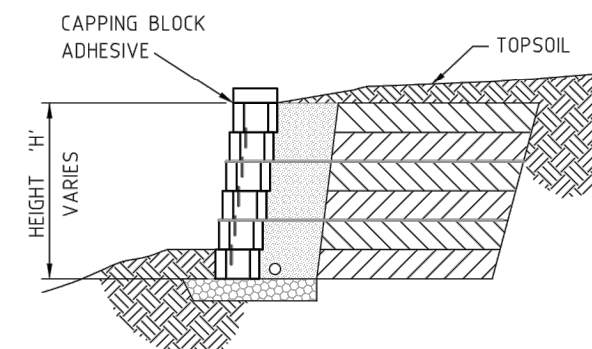
## STEP 5

- CONTINUE WALL CONSTRUCTION.
- PLACE ADDITIONAL BLOCK COURSES BY REPEATING STEP 3.
- PLACE GEOGRID REINFORCEMENT AT REQUIRED HEIGHTS AND LENGTHS (AS ILLUSTRATED ON WALL ELEVATIONS) BY REPEATING STEP 4.



## STEP 6

- REPEAT STEPS 3 THRU 5, UNTIL WALL IS AT REQUIRED HEIGHT.
- INSTALL CAPPING BLOCKS, FINAL BACKFILL AND ANY OPTIONAL DRAINAGE OR BARRIER STRUCTURES AS REQUIRED.



## NOTE

AT THE END OF EACH DAYS OPERATION, THE CONTRACTOR SHALL SLOPE THE LAST LAYER OF SELECT FILL AWAY FROM THE WALL FACING TO RAPIDLY DIRECT RUNOFF AWAY FROM THE WALL FACE. IN ADDITION, THE CONTRACTOR SHALL NOT ALLOW SURFACE RUNOFF FROM ADJACENT AREAS TO ENTER THE WALL CONSTRUCTION SITE.

## Fairfield City Council

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Dated. 18 March 2022



FOR FURTHER INFORMATION REGARDING KEYSTONE  
WALLS REFER MANUFACTURERS RECOMMENDATIONS

FOR INFORMATION USE ONLY

|     |                       |       |          |          |          |
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|                                                                                                                                                          |
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| ENGINEERING DESIGN SERVICES FOR ALL<br>TYPE OF RETAINING STRUCTURES<br>GABIONS, TERRAMESH, CRIB WALLS, SEGMENTAL WALLS<br>AND REINFORCED SOIL STRUCTURES |
| SCALE N.T.S                                                                                                                                              |

|                                          |
|------------------------------------------|
| PROJECT TITLE<br>STANDARD<br>DRAWING SET |
| CLIENT/DEVELOPER<br>STANDARD DRAWING SET |

|                                           |                              |               |
|-------------------------------------------|------------------------------|---------------|
| KEYSTONE STANDARD DETAILS<br>SHEET 5 OF 5 |                              |               |
| PROJECT NO<br><br>RS-INFO                 | AUTOCAD REF<br>RS-INFO       |               |
|                                           | DWG. NO<br>RS-INFO-KS-DET-05 | REVISION<br>0 |