

PROPOSED RESIDENTIAL SUBDIVISION

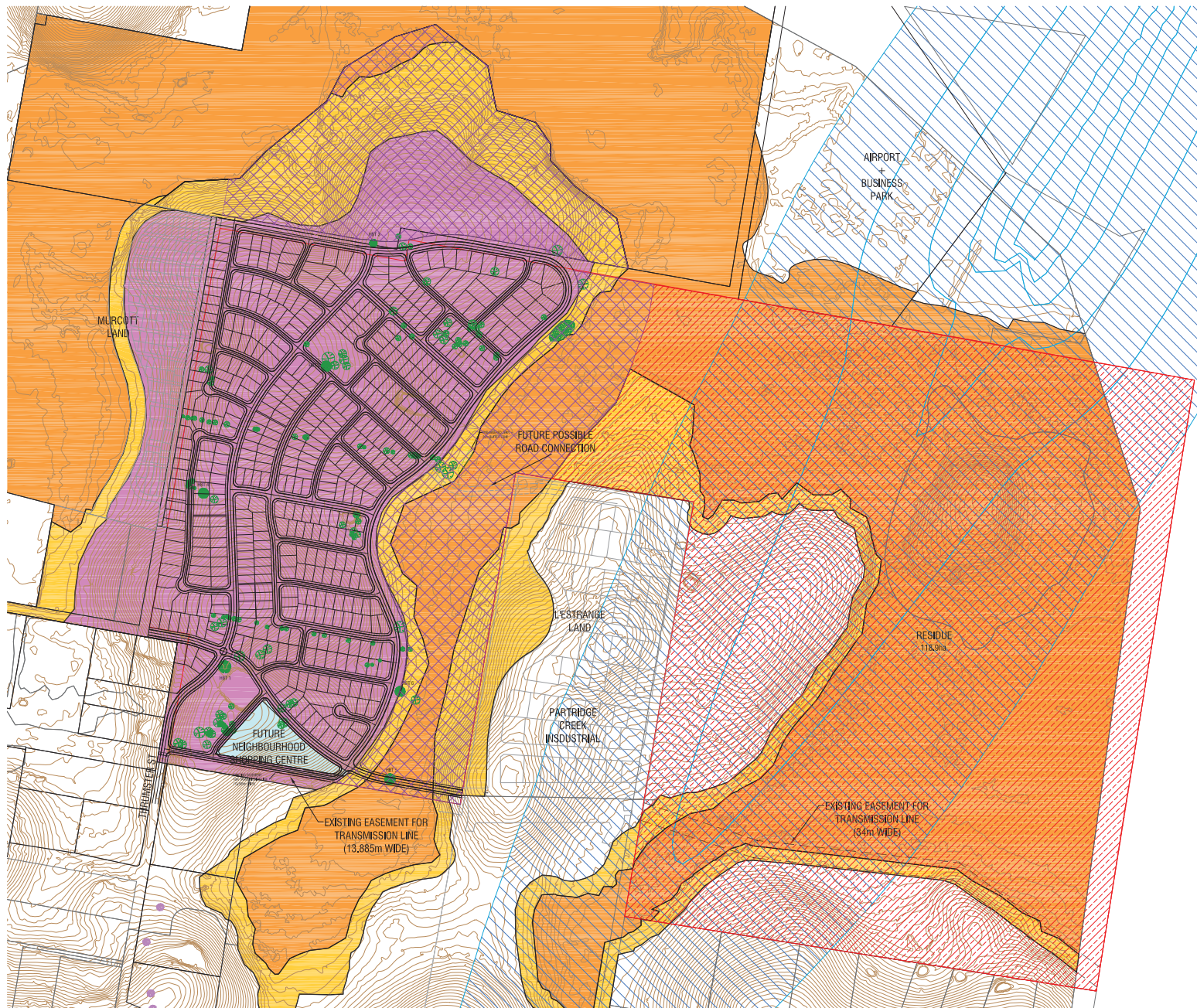
PARTRIDGE CREEK RESIDENTIAL

THRUMSTER

PORT MACQUARIE HASTINGS COUNCIL

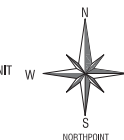
DRAWING INDEX - 1

DRAWING No.	DRAWING TITLE
160059-C1	PARTRIDGE PRECINCT PLAN
160059-C2	OVERALL LAYOUT PLAN
160059-C3	LAYOUT PLAN (Sheet 1 of 4)
160059-C4	LAYOUT PLAN (Sheet 2 of 4)
160059-C5	LAYOUT PLAN (Sheet 3 of 4)
160059-C6	LAYOUT PLAN (Sheet 4 of 4)
160059-C7	STAGING PLAN
160059-C8	STAGING DETAILS
160059-C9	VEGETATION/KOALA HABITAT PLAN
160059-C10	ROAD HIERARCHY
160059-C11	ROAD TYPICAL CROSS SECTIONS
160059-C12	CONCEPT CATCHMENT PLAN
160059-C13	CONCEPT SEWER STRATEGY PLAN
160059-C14	WATER SUPPLY STRATEGY PLAN
160059-C15	PEDESTRIAN AND PUBLIC TRANSPORT FACILITIES PLAN
160059-C16	SITE LAYOUT/APZ PLAN
160059-C17	PUBLIC RESERVES PLAN
160059-C18	ENVIRONMENTAL MANAGEMENT PLAN
160059-C19	PRELIMINARY EARTHWORKS DESIGN PLAN
160059-C20	CULVERT DESIGN
160059-C20A	CULVERT DESIGN CALC SHEET
160059-C21	SITE ANALYSIS PLAN
160059-C22	ACID SULFATE SOIL PLAN
160059-C23	ZONING PLAN
160059-C24	APZ STAGING PLAN
160059-C25	ELECTRICAL RE-ROUTING PLAN



LEGEND

- ROAD
- PROPOSED PARKLANDS
- ANEF CONTOURS
- RESIDUE LOT
- ENVIRONMENTAL MANAGEMENT UNIT
- E2 ZONE
- E3 ZONE
- R1 ZONE
- B1 ZONE
- TREES TO BE RETAINED
- HOLLOW BEARING



No.	DATE	AMENDMENTS	BY
F	06/09/2017	LOT 829 UPDATED	ZS
G	08/12/2017	ISSUED FOR APPROVAL	ZS
H	21/12/2017	ISSUED FOR APPROVAL	ZS
I	23/07/2018	ISSUED FOR APPROVAL	ZS

Filename: C:\160059_Plan_15.dwg

PROJECT
**PROPOSED SUBDIVISION
PARTRIDGE CREEK
RESIDENTIAL, THRUMSTER**

SHEET SUBJECT
**PARTRIDGE CREEK
PRECINCT PLAN**

CLIENT
PMHC

PROJECT NO.	SHEET NO.	ISSUE	DATE
160059	1	I	June 2016
COUNCIL REF.	SCALE		
	1:4000 (A1) 1:8000 (A3)		
DESIGNED	CHECKED	DRAWN	CHECKED
MM		ZS	



MJM
CONSULTING ENGINEERS
CIVIL • STRUCTURAL • BUILDING DESIGN • PLANNING

Wagga Wagga
Level 1, 37 Johnson Street
(02) 6921 8333
admin@mjmsolutions.com
www.mjmsolutions.com
Boronia Pty, Ltd, trading as MJM Consulting Engineers
ABN 35 137 138 350 ACN 137 138 350

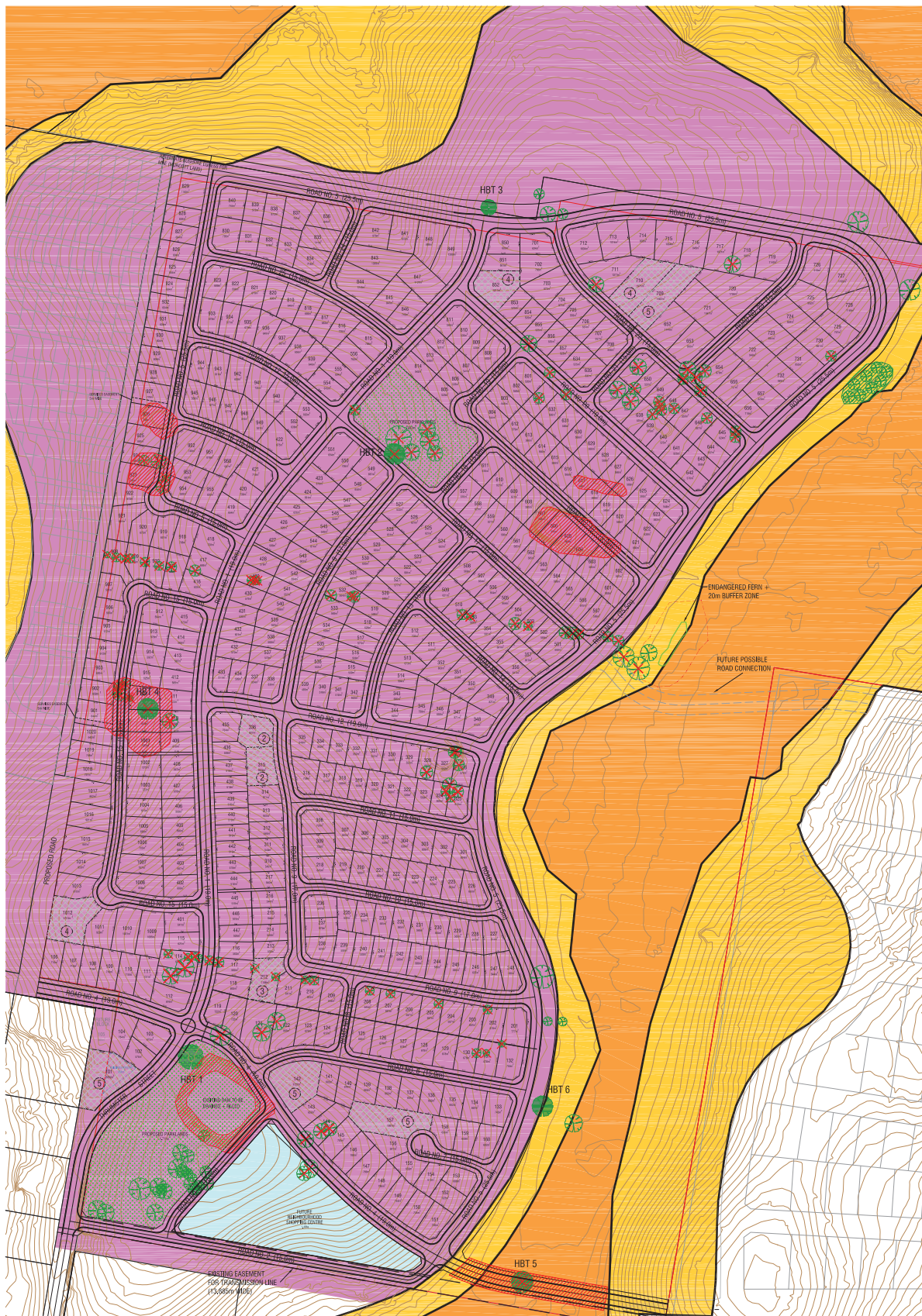
I HEREBY CERTIFY THAT ENGINEERING WORKS AS SHOWN ON THIS PLAN ARE WORK AS EXECUTED AND HAVE BEEN CONSTRUCTED GENERALLY IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS APPROVED BY THE DIRECTOR, IN ACCORDANCE WITH THE GENERAL REQUIREMENTS OF THE LOCAL COUNCIL.

NAME: Michael J. McFetters

SIGNATURE:

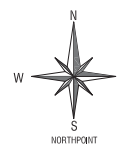
CAPACITY: Director

DATE:



LEGEND

- PROPOSED ROADWAY
- PROPOSED PARKLANDS
- POSSIBLE UNIT SITE
- E2 ZONE
- E3 ZONE
- R1 ZONE
- B1 ZONE
- TREES TO BE RETAINED
- HOLLOW BEARING
- TREES TO BE REMOVED
- GROUP OF TREES TO BE REMOVED



No.	DATE	AMENDMENTS	BY
I	08/12/2017	ISSUED FOR APPROVAL	ZS
J	19/12/2017	ISSUED FOR APPROVAL	ZS
K	21/12/2017	ISSUED FOR APPROVAL	ZS
L	23/07/2018	ISSUED FOR APPROVAL	ZS

Filename: C:\160059_Plan_15.dwg

PROJECT
**PROPOSED SUBDIVISION
PARTRIDGE CREEK
RESIDENTIAL, THRUMSTER**

SHEET SUBJECT
OVERALL LAYOUT PLAN

CLIENT
PMHC

PROJECT NO.	SHEET NO.	ISSUE	DATE
160059	2	L	June 2016
COUNCIL REF.		SCALE	
		1:2000 (A1) 1:4000 (A3)	

DESIGNED	CHECKED	DRAWN	CHECKED
MM		ZS	



MJM
CONSULTING ENGINEERS
CIVIL • STRUCTURAL • BUILDING DESIGN • PLANNING

Wagga Wagga
Level 1, 37 Johnston Street
(02) 6921 8333
admin@mjmsolutions.com
www.mjmsolutions.com
Boulton Pty. Ltd. trading as MJM Consulting Engineers
ABN 16 107 258 350 ACN 107 258 350

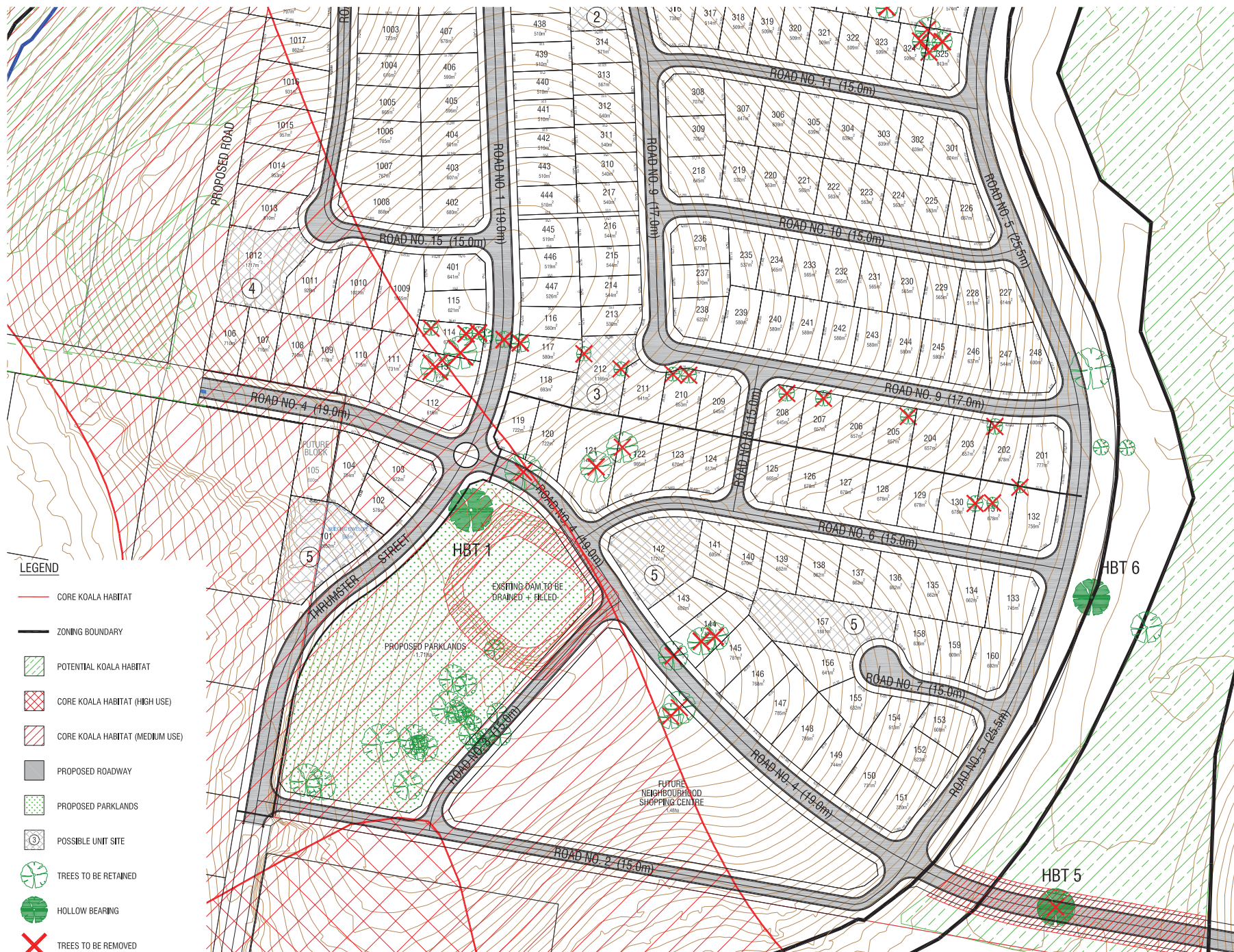
I HEREBY CERTIFY THAT ENGINEERING WORKS AS SHOWN ON THIS PLAN ARE WORK AS EXECUTED AND HAVE BEEN CONSTRUCTED GENERALLY IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS APPROVED BY THE DIRECTOR, IN ACCORDANCE WITH THE GENERAL REQUIREMENTS OF THE LOCAL COUNCIL.

NAME: Michael J. McFeeters

SIGNATURE:

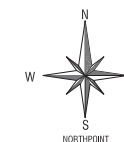
CAPACITY: Director

DATE:



LEGEND

- CORE KOALA HABITAT
- ZONING BOUNDARY
- POTENTIAL KOALA HABITAT
- CORE KOALA HABITAT (HIGH USE)
- CORE KOALA HABITAT (MEDIUM USE)
- PROPOSED ROADWAY
- PROPOSED PARKLANDS
- POSSIBLE UNIT SITE
- TREES TO BE RETAINED
- HOLLOW BEARING
- TREES TO BE REMOVED
- GROUP OF TREES TO BE REMOVED



NO.	DATE	AMENDMENTS	BY
H	08/12/2017	ISSUED FOR APPROVAL	ZS
I	18/12/2017	ISSUED FOR APPROVAL	ZS
J	21/12/2017	ISSUED FOR APPROVAL	ZS
K	23/07/2018	ISSUED FOR APPROVAL	ZS

Filename: C:\160059_Plan_15.dwg

PROJECT
PROPOSED SUBDIVISION
PARTRIDGE CREEK
RESIDENTIAL, THURMSTER

SHEET SUBJECT
LAYOUT PLAN
Sheet 1 of 4

CLIENT

PMHC

PROJECT NO.	SHEET NO.	ISSUE	DATE
160059	3	K	June 2016
COUNCIL REF.	SCALE		
	1:1000 (A1) 1:2000 (A3)		

DESIGNED	CHECKED	DRAWN	CHECKED
MM		ZS	



MJM
CONSULTING ENGINEERS
CIVIL • STRUCTURAL • BUILDING DESIGN • PLANNING

Wagga Wagga
Level 4, 37 Johnson Street
(02) 6921 8333
admrh@mjmsolutions.com
www.mjmsolutions.com
Boronia Pty. Ltd. trading as MJM Consulting Engineers
ABN 35 137 138 330 ACR 137 138 330

I HEREBY CERTIFY THAT ENGINEERING WORKS AS SHOWN ON THIS PLAN ARE WORK AS EXECUTED AND HAVE BEEN CONSTRUCTED GENERALLY IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS APPROVED BY THE DIRECTOR, IN ACCORDANCE WITH THE GENERAL REQUIREMENTS OF THE LOCAL COUNCIL.

NAME: Michael J. McFeters

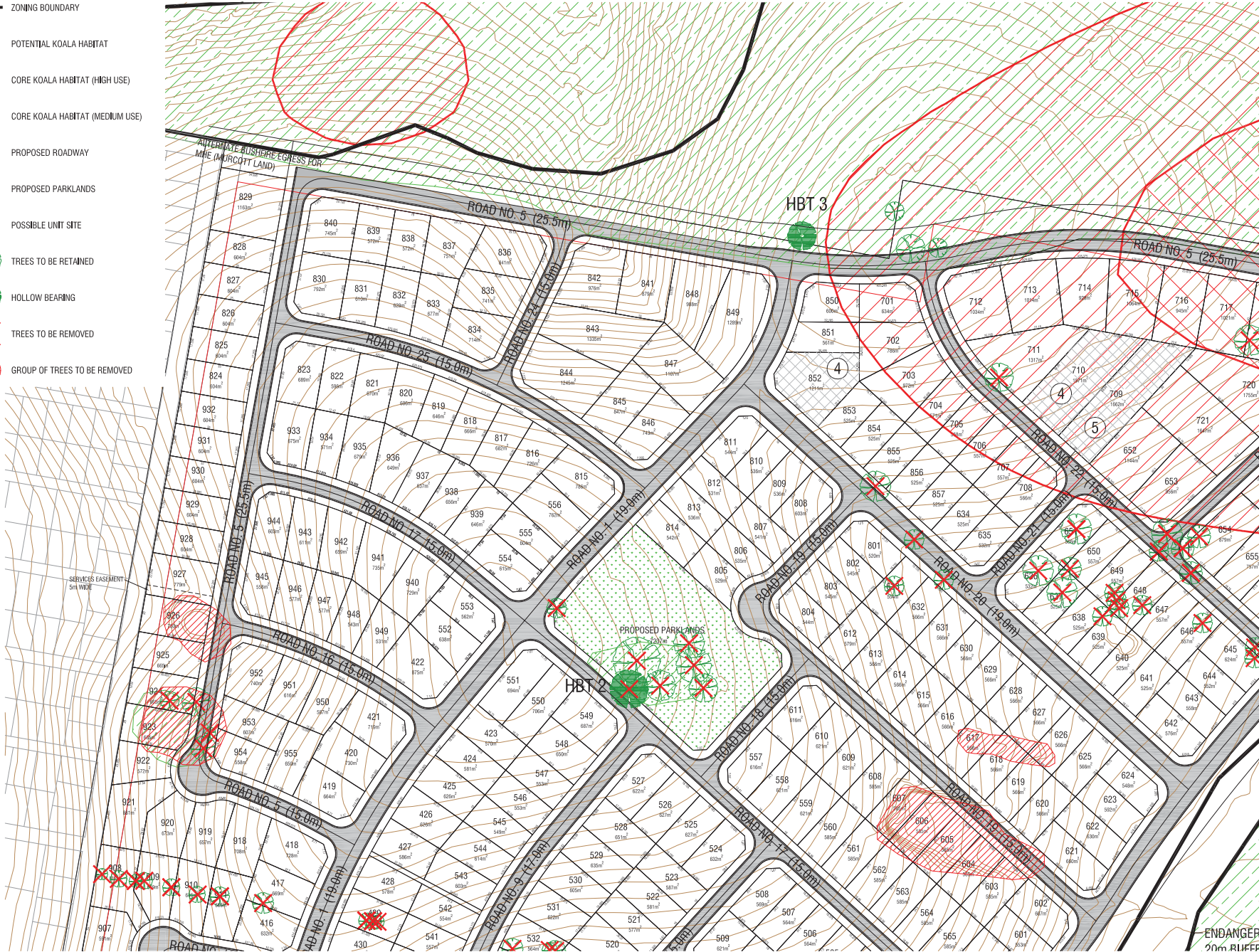
SIGNATURE:

CAPACITY: Director

DATE:

LEGEND

- CORE KOALA HABITAT
- ZONING BOUNDARY
- POTENTIAL KOALA HABITAT
- CORE KOALA HABITAT (HIGH USE)
- CORE KOALA HABITAT (MEDIUM USE)
- PROPOSED ROADWAY
- PROPOSED PARKLANDS
- POSSIBLE UNIT SITE
- TREES TO BE RETAINED
- HOLLOW BEARING
- TREES TO BE REMOVED
- GROUP OF TREES TO BE REMOVED



No.	DATE	AMENDMENTS	BY
G	08/12/2017	ISSUED FOR APPROVAL	ZS
H	18/12/2017	ISSUED FOR APPROVAL	ZS
I	21/12/2017	ISSUED FOR APPROVAL	ZS
J	23/07/2018	ISSUED FOR APPROVAL	ZS

Filename: C:\160059_Plan_15.dwg

PROJECT
**PROPOSED SUBDIVISION
 PARTRIDGE CREEK
 RESIDENTIAL, THRUMSTER**

SHEET SUBJECT
**LAYOUT PLAN
 Sheet 3 of 4**

CLIENT
PMHC

PROJECT NO.	SHEET NO.	ISSUE	DATE
160059	5	J	June 2016
COUNCIL REF.	SCALE		
	1:1000 (A1) 1:2000 (A3)		

DESIGNED	CHECKED	DRAWN	CHECKED
MM		ZS	



Wagga Wagga
 Level 1, 37 Johnson Street
 (02) 6921 8333
 adm@mm-solutions.com
 www.mm-solutions.com
 Bowart Pty Ltd, trading as M3M Consulting Engineers
 ABN 36 137 138 330 ACR 137 138 330

I HEREBY CERTIFY THAT ENGINEERING WORKS AS SHOWN ON THIS PLAN ARE WORK AS EXECUTED AND HAVE BEEN CONSTRUCTED GENERALLY IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS APPROVED BY THE DIRECTOR, IN ACCORDANCE WITH THE GENERAL REQUIREMENTS OF THE LOCAL COUNCIL.

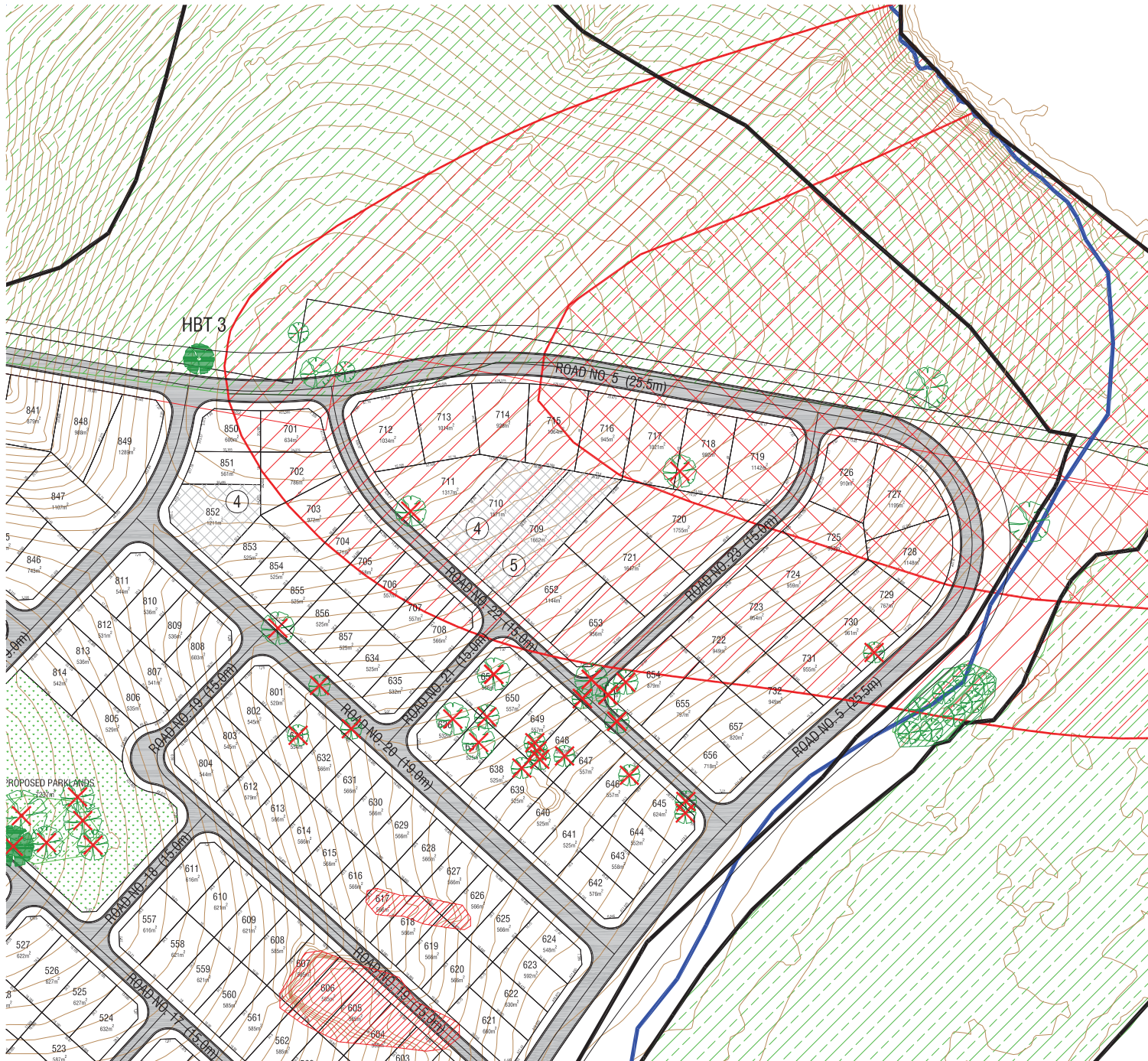
NAME: Michael J. McFeters

SIGNATURE:

CAPACITY: Director

DATE:

ENDANGER
 20m BUFFER



LEGEND

- CORE KOALA HABITAT
- ZONING BOUNDARY
- POTENTIAL KOALA HABITAT
- CORE KOALA HABITAT (HIGH USE)
- CORE KOALA HABITAT (MEDIUM USE)
- PROPOSED ROADWAY
- PROPOSED PARKLANDS
- POSSIBLE UNIT SITE
- TREES TO BE RETAINED
- HOLLOW BEARING
- TREES TO BE REMOVED
- GROUP OF TREES TO BE REMOVED



No.	DATE	AMENDMENTS	BY
F	06/09/2017	LOT 829 UPDATED	ZS
G	08/12/2017	ISSUED FOR APPROVAL	ZS
H	21/12/2017	ISSUED FOR APPROVAL	ZS
I	23/07/2018	ISSUED FOR APPROVAL	ZS

Filename: C:\160059_Plan_15.dwg

PROJECT
**PROPOSED SUBDIVISION
PARTRIDGE CREEK
RESIDENTIAL, THRUMSTER**

SHEET SUBJECT
**LAYOUT PLAN
Sheet 4 of 4**

CLIENT
PMHC

PROJECT NO.	SHEET NO.	ISSUE	DATE
160059	6	I	June 2016
COUNCIL REF.	SCALE		
	1:1000 (A1) 1:2000 (A3)		

DESIGNED	CHECKED	DRAWN	CHECKED
MM		ZS	



MJM
CONSULTING ENGINEERS
CIVIL • STRUCTURAL • BUILDING DESIGN • PLANNING

Wagga Wagga
Level 4, 37 Johnson Street
(02) 6921 8333
admn@mjm-solutions.com
www.mjm-solutions.com
Boronia Pty. Ltd, trading as MJM Consulting Engineers
ABN 35 137 138 335 ACR 137 138 335

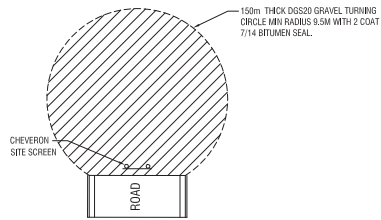
I HEREBY CERTIFY THAT ENGINEERING WORKS AS SHOWN ON THIS PLAN ARE WORK AS EXECUTED AND HAVE BEEN CONSTRUCTED GENERALLY IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS APPROVED BY THE DIRECTOR, IN ACCORDANCE WITH THE GENERAL REQUIREMENTS OF THE LOCAL COUNCIL.

NAME: Michael J. McFeters

SIGNATURE:

CAPACITY: Director

DATE:



TURNING CIRCLE DETAIL

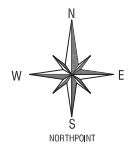
LEGEND

- STAGE 1 = 60 LOTS
- STAGE 2 = 48 LOTS
- STAGE 3 = 57 LOTS
- STAGE 4 = 47 LOTS
- STAGE 5 = 67 LOTS
- STAGE 6 = 57 LOTS
- STAGE 7 = 32 LOTS
- STAGE 8 = 57 LOTS
- STAGE 9 = 55 LOTS
- STAGE 10 = 20 LOTS
- TURNING CIRCLE
- ROAD

RESIDENTIAL = 500 LOTS

BUSINESS = 1 LOT

OPEN SPACE = 2 LOTS



No.	DATE	AMENDMENTS	BY
F	06/09/2017	LOT 829 UPDATED	ZS
G	08/12/2017	ISSUED FOR APPROVAL	ZS
H	21/12/2017	ISSUED FOR APPROVAL	ZS
I	23/07/2018	ISSUED FOR APPROVAL	ZS

Filename: C:\160059_Plan_15.dwg

PROPOSED SUBDIVISION PARTRIDGE CREEK RESIDENTIAL, THURMSTER

SHEET SUBJECT STAGING PLAN

CLIENT
PMHC

PROJECT NO.	SHEET NO.	ISSUE	DATE
160059	7	I	June 2016
COUNCIL REF.	SCALE		
	1:2000 (A1) 1:4000 (A3)		
DESIGNED	CHECKED	DRAWN	CHECKED
MM		ZS	



MJM CONSULTING ENGINEERS

Wagga Wagga
Level 1, 27 Johnston Street
(02) 6921 8333
admin@mjm-solutions.com
www.mjm-solutions.com
Borlton Pty. Ltd. trading as MJM Consulting Engineers
ABN 16 107 536 350 ACN 107 536 350

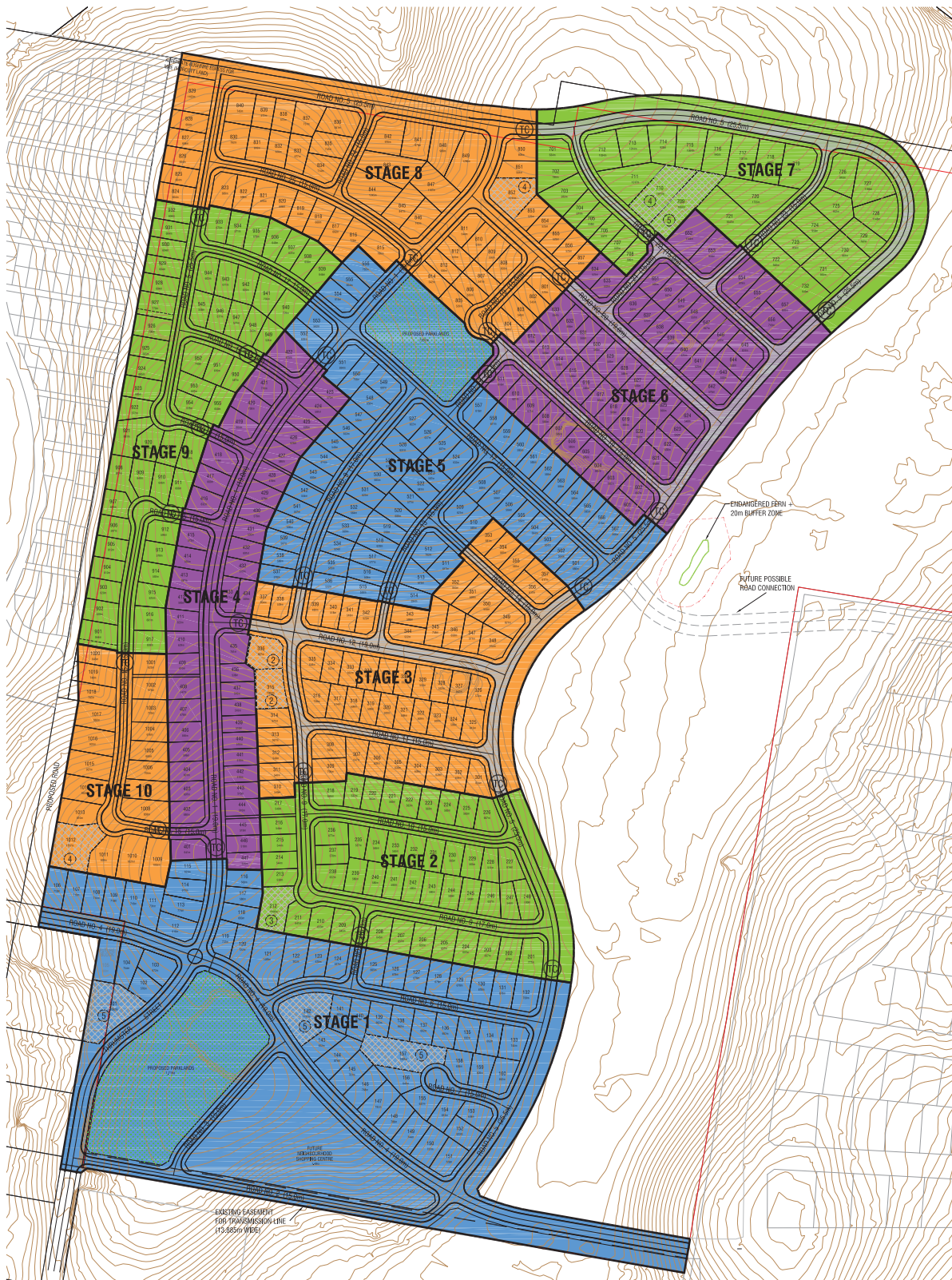
I HEREBY CERTIFY THAT ENGINEERING WORKS AS SHOWN ON THIS PLAN ARE WORK AS EXECUTED AND HAVE BEEN CONSTRUCTED GENERALLY IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS APPROVED BY THE DIRECTOR, IN ACCORDANCE WITH THE GENERAL REQUIREMENTS OF THE LOCAL COUNCIL.

NAME: Michael J. McFeeters

SIGNATURE:

CAPACITY: Director

DATE:



STAGE 1	
TOTAL No. OF LOTS	60 lots
TOTAL STAGE AREA	120574 m²
TOTAL ALLOTMENT AREA	45648 m²
TOTAL DWELLING ENTITLEMENTS	72 lots
TOTAL AREA OF ROAD RESERVE	39552 m²
TOTAL LENGTH OF ROAD RESERVES	2200 m
TOTAL PARK AREA	17119 m²
TOTAL BUSINESS AREA	14777 m²
TOTAL RESERVE AREA	3477 m²
WIDTH OF ALL ROAD RESERVES (U.N.O)	28.2, 19, 15 m
WIDTH OF ALL ROADS (U.N.O)	11, 7 m
WIDTH OF ALL NATURE STRIP/FOOTPATHS	4.0 m

LOT DENSITY	6.22 dw/h
-------------	-----------

STAGE 4	
TOTAL No. OF LOTS	47 lots
TOTAL STAGE AREA	40926 m²
TOTAL ALLOTMENT AREA	28866 m²
TOTAL DWELLING ENTITLEMENTS	47 lots
TOTAL AREA OF ROAD RESERVE	12060 m²
TOTAL LENGTH OF ROAD RESERVES	704 m
WIDTH OF ALL ROAD RESERVES (U.N.O)	19, 15 m
WIDTH OF ALL ROADS (U.N.O)	11, 7 m
WIDTH OF ALL NATURE STRIP/FOOTPATHS	4.0 m

LOT DENSITY	11.5 dw/h
-------------	-----------

STAGE 2	
TOTAL No. OF LOTS	48 lots
TOTAL STAGE AREA	43517 m²
TOTAL ALLOTMENT AREA	29248 m²
TOTAL DWELLING ENTITLEMENTS	50 lots
TOTAL AREA OF ROAD RESERVE	14269 m²
TOTAL LENGTH OF ROAD RESERVES	759 m
WIDTH OF ALL ROAD RESERVES (U.N.O)	28.2, 19, 17, 15 m
WIDTH OF ALL ROADS (U.N.O)	11, 9, 7 m
WIDTH OF ALL NATURE STRIP/FOOTPATHS	4.0 m

LOT DENSITY	11.5 dw/h
-------------	-----------

STAGE 5	
TOTAL No. OF LOTS	67 lots
TOTAL STAGE AREA	65279 m²
TOTAL ALLOTMENT AREA	40325 m²
TOTAL DWELLING ENTITLEMENTS	67 lots
TOTAL AREA OF ROAD RESERVE	17717 m²
TOTAL LENGTH OF ROAD RESERVES	1076 m
TOTAL PARK AREA	7237 m²
WIDTH OF ALL ROAD RESERVES (U.N.O)	28.2, 19, 17, 15 m
WIDTH OF ALL ROADS (U.N.O)	11, 9, 7 m
WIDTH OF ALL NATURE STRIP/FOOTPATHS	4.0 m

LOT DENSITY	10.3 dw/h
-------------	-----------

STAGE 3	
TOTAL No. OF LOTS	57 lots
TOTAL STAGE AREA	51952 m²
TOTAL ALLOTMENT AREA	34281 m²
TOTAL DWELLING ENTITLEMENTS	59 lots
TOTAL AREA OF ROAD RESERVE	17671 m²
TOTAL LENGTH OF ROAD RESERVES	967 m
WIDTH OF ALL ROAD RESERVES (U.N.O)	28.2, 19, 17, 15 m
WIDTH OF ALL ROADS (U.N.O)	11, 9, 7 m
WIDTH OF ALL NATURE STRIP/FOOTPATHS	4.0 m

LOT DENSITY	11.3 dw/h
-------------	-----------

STAGE 6	
TOTAL No. OF LOTS	57 lots
TOTAL STAGE AREA	52530 m²
TOTAL ALLOTMENT AREA	34346 m²
TOTAL DWELLING ENTITLEMENTS	57 lots
TOTAL AREA OF ROAD RESERVE	18184 m²
TOTAL LENGTH OF ROAD RESERVES	997 m
WIDTH OF ALL ROAD RESERVES (U.N.O)	28.2, 19, 15 m
WIDTH OF ALL ROADS (U.N.O)	11, 9, 7 m
WIDTH OF ALL NATURE STRIP/FOOTPATHS	4.0 m

LOT DENSITY	10.8 dw/h
-------------	-----------

STAGE 7	
TOTAL No. OF LOTS	32 lots
TOTAL STAGE AREA	50909 m²
TOTAL ALLOTMENT AREA	31990 m²
TOTAL DWELLING ENTITLEMENTS	39 lots
TOTAL AREA OF ROAD RESERVE	18919 m²
TOTAL LENGTH OF ROAD RESERVES	794 m
WIDTH OF ALL ROAD RESERVES (U.N.O)	28.2, 15 m
WIDTH OF ALL ROADS (U.N.O)	11, 7 m
WIDTH OF ALL NATURE STRIP/FOOTPATHS	4.0 m

LOT DENSITY	7.66 dw/h
-------------	-----------

STAGE 8	
TOTAL No. OF LOTS	57 lots
TOTAL STAGE AREA	61571 m²
TOTAL ALLOTMENT AREA	39992 m²
TOTAL DWELLING ENTITLEMENTS	60 lots
TOTAL AREA OF ROAD RESERVE	21579 m²
TOTAL LENGTH OF ROAD RESERVES	1116 m
WIDTH OF ALL ROAD RESERVES (U.N.O)	28.2, 26.2, 19, 15 m
WIDTH OF ALL ROADS (U.N.O)	11, 9, 7 m
WIDTH OF ALL NATURE STRIP/FOOTPATHS	4.0 m

LOT DENSITY	9.74 dw/h
-------------	-----------

STAGE 9	
TOTAL No. OF LOTS	55 lots
TOTAL STAGE AREA	44982 m²
TOTAL ALLOTMENT AREA	35431 m²
TOTAL DWELLING ENTITLEMENTS	55 lots
TOTAL AREA OF ROAD RESERVE	9521 m²
TOTAL LENGTH OF ROAD RESERVES	610 m
WIDTH OF ALL ROAD RESERVES (U.N.O)	15 m
WIDTH OF ALL ROADS (U.N.O)	7 m
WIDTH OF ALL NATURE STRIP/FOOTPATHS	4.0 m

LOT DENSITY	12.2 dw/h
-------------	-----------

STAGE 10	
TOTAL No. OF LOTS	20 lots
TOTAL STAGE AREA	20322 m²
TOTAL ALLOTMENT AREA	16872 m²
TOTAL DWELLING ENTITLEMENTS	23 lots
TOTAL AREA OF ROAD RESERVE	3450 m²
TOTAL LENGTH OF ROAD RESERVES	210 m
WIDTH OF ALL ROAD RESERVES (U.N.O)	15 m
WIDTH OF ALL ROADS (U.N.O)	7 m
WIDTH OF ALL NATURE STRIP/FOOTPATHS	4.0 m

LOT DENSITY	11.3 dw/h
-------------	-----------

No.	DATE	AMENDMENTS	BY
D	06/09/2017	LOT 829 UPDATED	ZS
E	08/12/2017	ISSUED FOR APPROVAL	ZS
F	21/12/2017	ISSUED FOR APPROVAL	ZS
G	23/07/2018	ISSUED FOR APPROVAL	ZS

Filename: C:\160059_Plan_15.dwg

PROJECT
**PROPOSED SUBDIVISION
PARTRIDGE CREEK
RESIDENTIAL, THURMSTER**

SHEET SUBJECT
STAGING DETAILS

CLIENT
PMHC

PROJECT NO.	SHEET NO.	ISSUE	DATE
160059	8	G	June 2016
COUNCIL REF.	SCALE		

DESIGNED	CHECKED	DRAWN	CHECKED
MM		ZS	

 **Local Government
PROCUREMENT**
APPROVED CONTRACTOR



MJM
CONSULTING ENGINEERS
CIVIL • STRUCTURAL • BUILDING DESIGN • PLANNING

Wagga Wagga
Level 1, 37 Johnston Street
(02) 6921 8333
admh@mjm-solutions.com
www.mjm-solutions.com
Bawfart Pty, Ltd, trading as MJM Consulting Engineers
ABN 16 107 158 350 ACN 107 158 350
Griffith
Level 1, 130 Benna Avenue
(02) 6962 9922

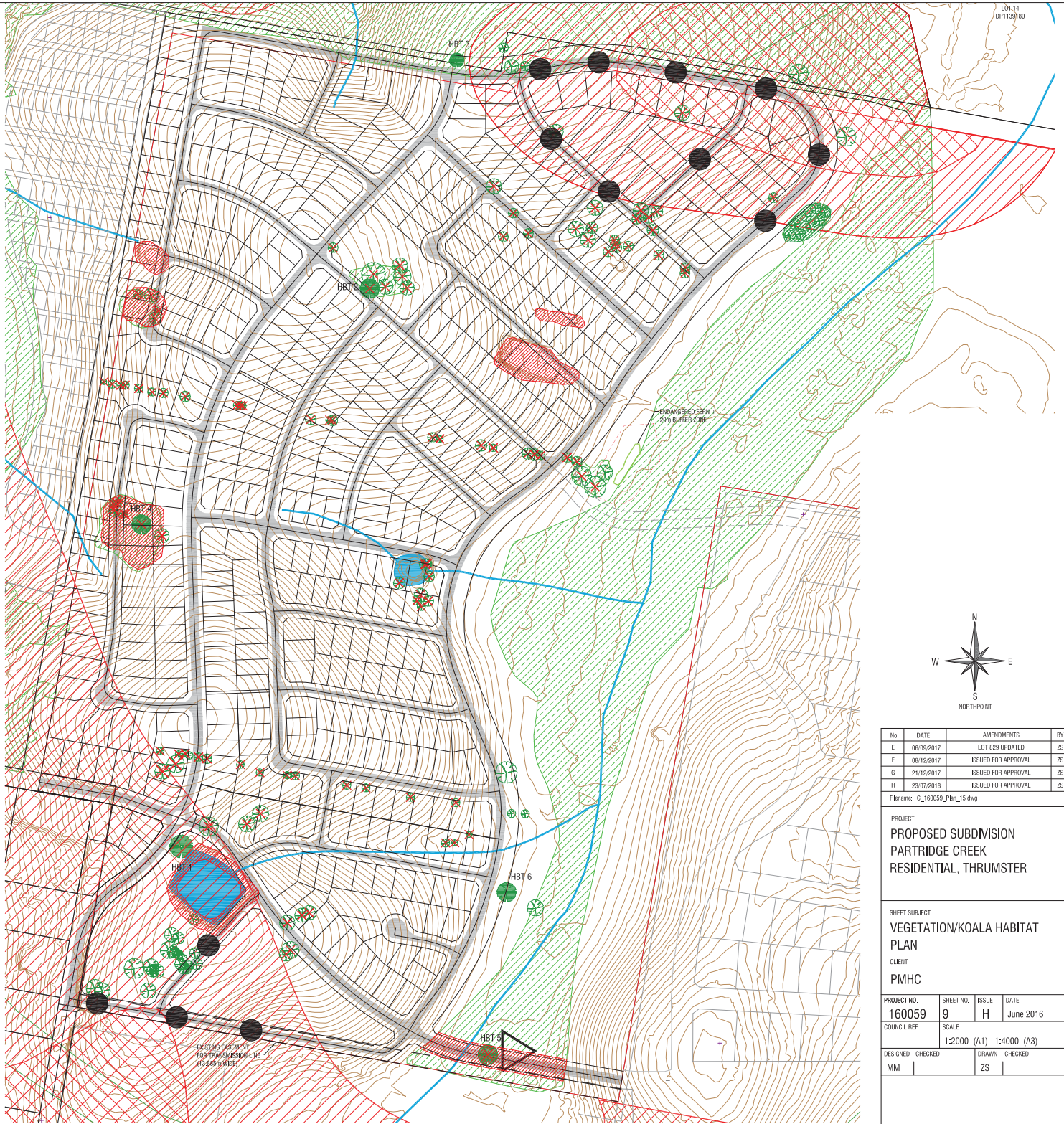
I HEREBY CERTIFY THAT ENGINEERING WORKS AS SHOWN ON THIS PLAN ARE WORK AS EXECUTED AND HAVE BEEN CONSTRUCTED GENERALLY IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS APPROVED BY THE DIRECTOR, IN ACCORDANCE WITH THE GENERAL REQUIREMENTS OF THE LOCAL COUNCIL.

NAME: Michael J. McFeeters

SIGNATURE:

CAPACITY: Director

DATE:



No.	DATE	AMENDMENTS	BY
E	06/09/2017	LOT 829 UPDATED	ZS
F	08/12/2017	ISSUED FOR APPROVAL	ZS
G	21/12/2017	ISSUED FOR APPROVAL	ZS
H	23/07/2018	ISSUED FOR APPROVAL	ZS

Filename: C:\160059_Plan_15.dwg

PROJECT
PROPOSED SUBDIVISION
PARTRIDGE CREEK
RESIDENTIAL, THURMSTER

SHEET SUBJECT
VEGETATION/KOALA HABITAT
PLAN
CLIENT
PMHC

PROJECT NO.	SHEET NO.	ISSUE	DATE
160059	9	H	June 2016
COUNCIL REF.	SCALE		
	1:2000 (A1) 1:4000 (A3)		

DESIGNED	CHECKED	DRAWN	CHECKED
MM		ZS	



MJM
CONSULTING ENGINEERS
 CIVIL • STRUCTURAL • BUILDING DESIGN • PLANNING

Wagga Wagga
 Level 1, 37 Johnston Street
 (02) 6921 8333
 admin@mjm-solutions.com
 www.mjm-solutions.com
 Griffith
 Level 1, 130 Benna Avenue
 (02) 6962 9922
 Bowdler Pty Ltd, trading as MJM Consulting Engineers
 ABN 16 107 535 353 ACN 107 535 353

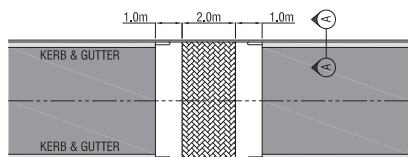
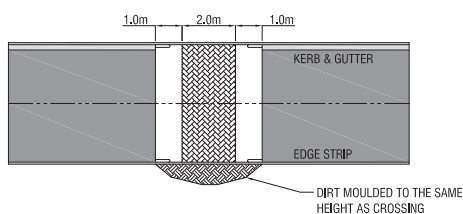
I HEREBY CERTIFY THAT ENGINEERING WORKS AS SHOWN ON THIS PLAN ARE WORK AS EXECUTED AND HAVE BEEN CONSTRUCTED GENERALLY IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS APPROVED BY THE DIRECTOR, IN ACCORDANCE WITH THE GENERAL REQUIREMENTS OF THE LOCAL COUNCIL.

NAME: Michael J. McFeeters

SIGNATURE:

CAPACITY: Director

DATE:



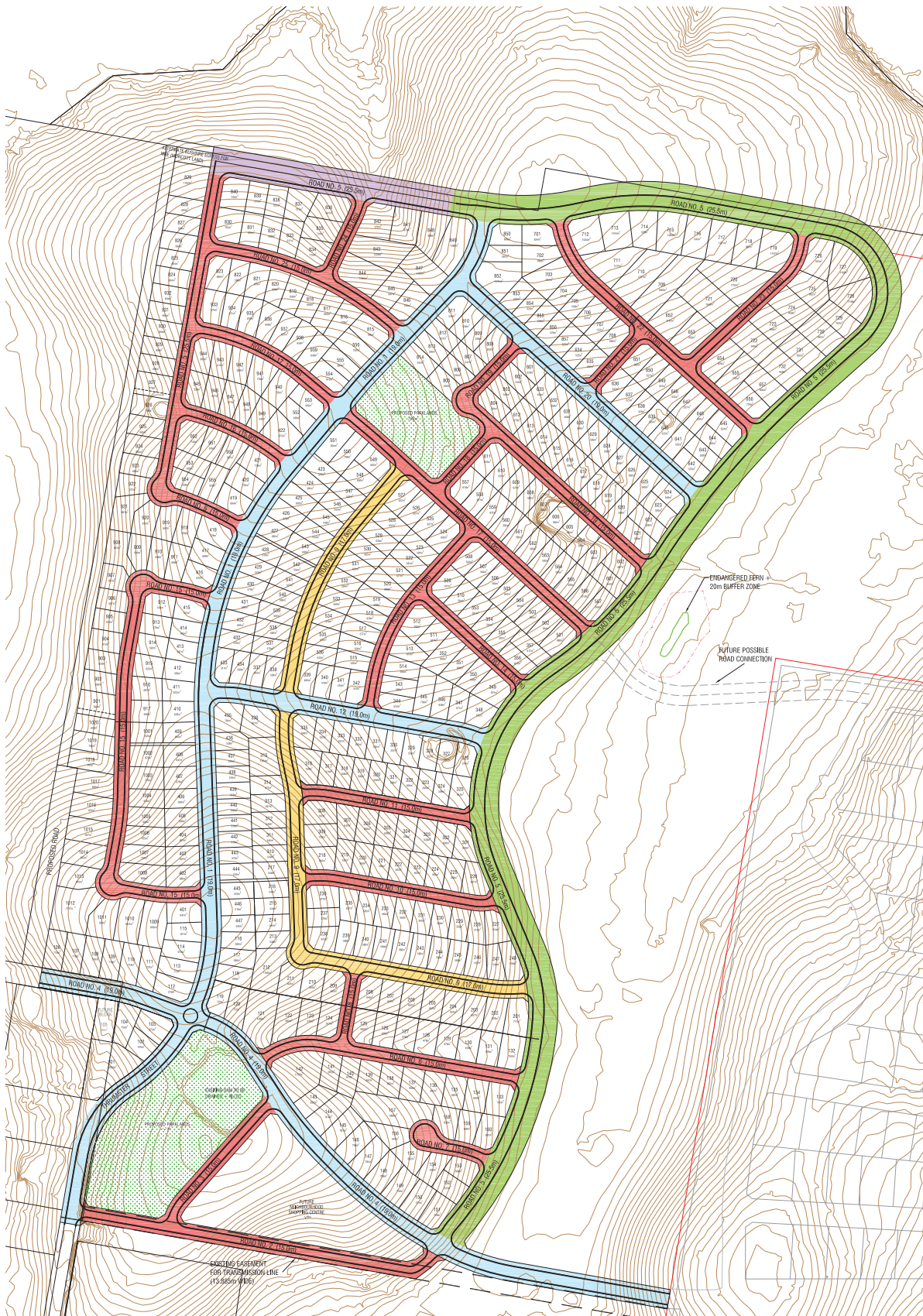
TRAFFIC CALMING DEVICE



SECTION A-A

LEGEND

- POTENTIAL KOALA HABITAT
- CORE KOALA HABITAT (HIGH USE)
- CORE KOALA HABITAT (MEDIUM USE)
- KOALA UNDERPASSES
- EXISTING CREEK LINE
- EXISTING DAMS
- ROAD
- TREES TO BE RETAINED
- HOLLOW BEARING
- TREES TO BE REMOVED
- GROUP OF TREES TO BE REMOVED
- TRAFFIC CALMING DEVICES



LEGEND

- BUSHLAND EDGE COLLECTOR ROAD
- PERIMETER ROAD
- COLLECTOR ROAD (19.0m)
- COLLECTOR ROAD (17.0m)
- LOCAL ROAD



No.	DATE	AMENDMENTS	BY
D	06/09/2017	LOT 829 UPDATED	ZS
E	09/12/2017	ISSUED FOR APPROVAL	ZS
F	21/12/2017	ISSUED FOR APPROVAL	ZS
G	23/07/2018	ISSUED FOR APPROVAL	ZS

Filename: C:\160059_Plan_15.dwg

PROJECT PROPOSED SUBDIVISION PARTRIDGE CREEK RESIDENTIAL THURMSTER

SHEET SUBJECT ROAD HEIRACHY PLAN

CLIENT
PMHC

PROJECT NO.	SHEET NO.	ISSUE	DATE
160059	10	G	June 2016

COUNCIL REF.	SCALE
	1:2000 (A1) 1:4000 (A3)

DESIGNED	CHECKED	DRAWN	CHECKED
MM		ZS	



Wagga Wagga Level 1, 37 Johnston Street (02) 6921 8333 admin@m3m-solutions.com www.m3m-solutions.com	Griffith Level 1, 130 Banna Avenue (02) 6962 9922 admin@m3m-solutions.com Boutfort Pty. Ltd. trading as M3M Consulting Engineers ABN 16 107 258 350 ACN 107 258 350
--	--

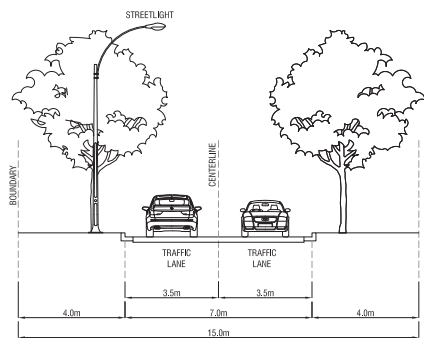
I HEREBY CERTIFY THAT ENGINEERING WORKS AS SHOWN ON THIS PLAN ARE WORK AS EXECUTED AND HAVE BEEN CONSTRUCTED GENERALLY IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS APPROVED BY THE DIRECTOR, IN ACCORDANCE WITH THE GENERAL REQUIREMENTS OF THE LOCAL COUNCIL.

NAME: Michael J. McFeeters

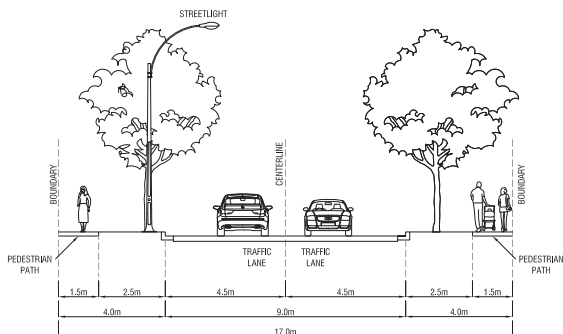
SIGNATURE:

CAPACITY: Director

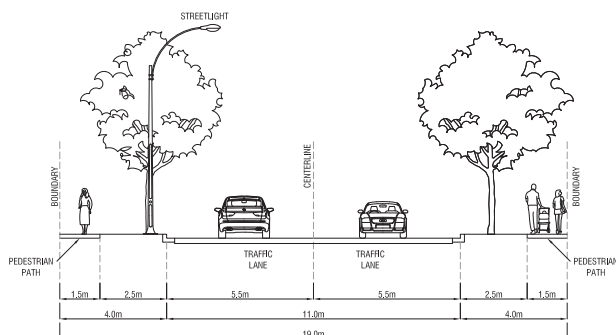
DATE:



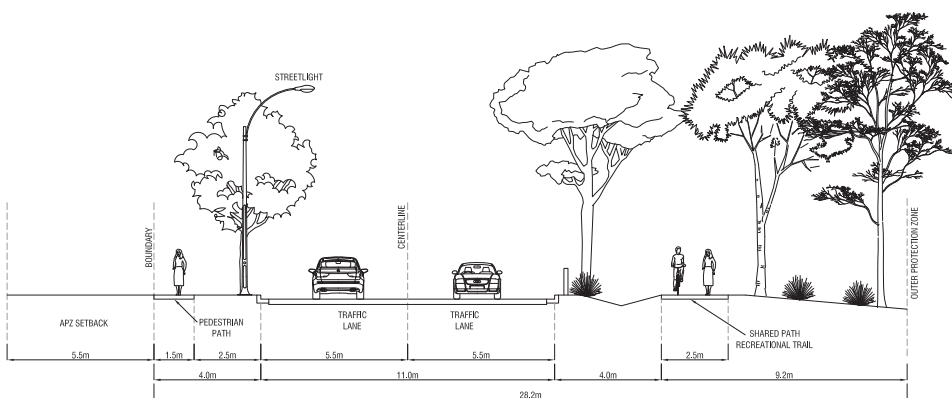
LOCAL ROAD SECTION



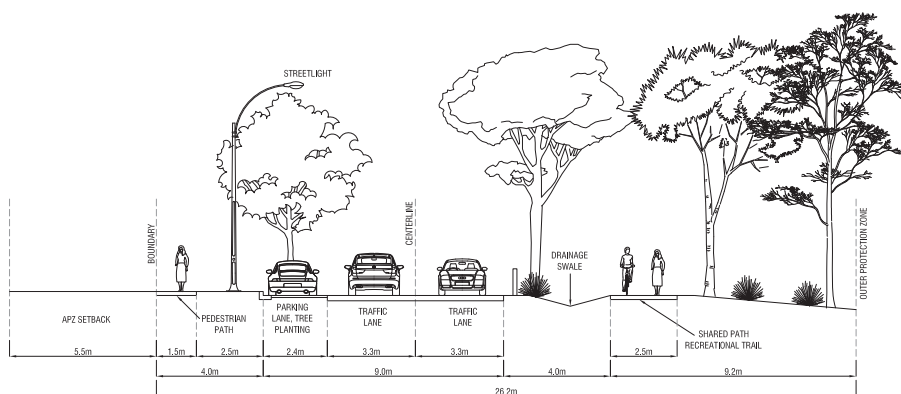
COLLECTOR ROAD SECTION - 17.0m



COLLECTOR ROAD SECTION - 19.0m



BUSHLAND EDGE COLLECTOR ROAD SECTION



PERIMETER ROAD SECTION



No.	DATE	AMENDMENTS	BY
B	07/08/2017	ISSUED FOR APPROVAL	ZS
C	06/09/2017	ISSUED FOR APPROVAL	ZS
D	08/12/2017	ISSUED FOR APPROVAL	ZS
E	23/07/2018	ISSUED FOR APPROVAL	ZS

Filename: C:\160059_Plan_15.dwg

PROJECT
PROPOSED SUBDIVISION
PARTRIDGE CREEK
RESIDENTIAL, THURMSTER

SHEET SUBJECT
ROAD TYPICAL CROSS SECTIONS

CLIENT
PMHC

PROJECT NO.	SHEET NO.	ISSUE	DATE
160059	11	E	June 2016
COUNCIL REF.	SCALE		
	N.T.S		

DESIGNED	CHECKED	DRAWN	CHECKED
MM		ZS	



MJM
CONSULTING ENGINEERS
CIVIL • STRUCTURAL • BUILDING DESIGN • PLANNING

Wagga Wagga
Level 1, 37 Johnston Street
(02) 6921 8333
admin@mjm-solutions.com
www.mjm-solutions.com
Griffith
Level 1, 130 Banna Avenue
(02) 6962 9922
Boulton Pty. Ltd. trading as MJM Consulting Engineers
ABN 16 107 438 350 ACN 107 438 350

I HEREBY CERTIFY THAT ENGINEERING WORKS AS SHOWN ON THIS PLAN ARE WORK AS EXECUTED AND HAVE BEEN CONSTRUCTED GENERALLY IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS APPROVED BY THE DIRECTOR, IN ACCORDANCE WITH THE GENERAL REQUIREMENTS OF THE LOCAL COUNCIL.

NAME: Michael J. McFeeters

SIGNATURE:

CAPACITY: Director

DATE:

B1					
level	W	L		Batter	
2	25	71		4	1
	H	Area	volume		
2	2485	0			
2.25	2701	875.25			
2.5	2925	1462.5			
2.75	3157	2367.75			
3	3397	3397			
3.25	3645	4596.25			
3.5	3901	5851.5			
Req Volume From Calc (cum)				3800	
Maximum Height (m)				1.13	

B2					
level	W	L		Batter	
3	28	57		4	1
	H	Area	volume		
3	1596	0			
3.25	1770	442.5			
3.5	1952	976			
3.75	2142	1606.5			
4	2340	2340			
4.25	2546	3182.5			
4.5	2760	4140			
Req Volume From Calc (cum)				2400	
Maximum Height (m)				1.2	












B3					
level	W	L		Batter	
3	26	52		4	1
	H	Area	volume		
3	1352	0			
3.25	1512	378			
3.5	1680	840			
3.75	1856	1392			
4	2040	2040			
4.25	2232	2790			
4.5	2432	3648			
Req Volume From Calc (cum)				2135	
Maximum Height (m)				1.21	

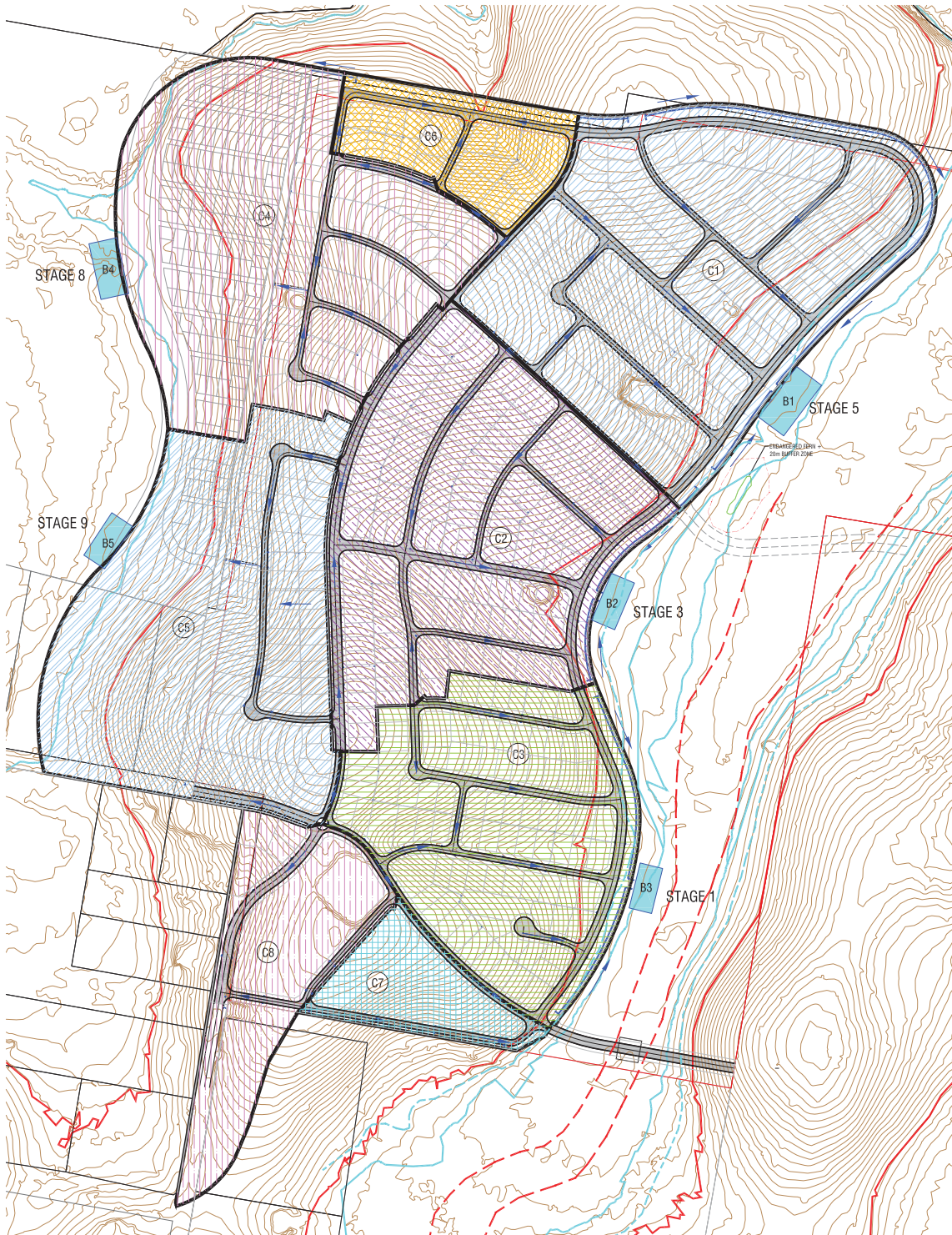
B4					
level	W	L		Batter	
2	32	64		4	1
	H	Area	volume		
2	3048	0			
2.25	2244	561			
2.5	2468	1224			
2.75	2660	1995			
3	2880	2880			
3.25	3108	3885			
3.5	3344	5018			
Req Volume From Calc (cum)				2670	
Maximum Height (m)				1.1	

B5					
level	W	L		Batter	
2	28	57		4	1
	H	Area	volume		
2	1596	0			
2.25	1770	442.5			
2.5	1952	976			
2.75	2142	1606.5			
3	2340	2340			
3.25	2546	3182.5			
3.5	2760	4140			
Req Volume From Calc (cum)				2195	
Maximum Height (m)				1.11	

CATCHMENT NUMBER	AREA
C1	14.5ha
C2	11.3ha
C3	9.7ha
C4	12.1ha
C5	11.5ha
C6	2.8ha
C7	2.1ha
C8	4.0ha

LEGEND

-  SWALE DRAIN
-  DIRECTION OF FLOW
-  DRAINAGE CATCHMENT
-  CATCHMENT NUMBER
-  BASINS
-  BASIN NUMBER
-  ROAD
-  100YR ARI FLOOD LEVEL
-  100YR + 900mm
-  PMF LEVEL
-  MAIN FLOOD CATCHMENT



No.	DATE	AMENDMENTS	BY
G	08/12/2017	ISSUED FOR APPROVAL	ZS
H	21/12/2017	ISSUED FOR APPROVAL	ZS
I	23/07/2018	ISSUED FOR APPROVAL	ZS
J	23/08/2018	ISSUED FOR APPROVAL	ZS

Filename: C_160059_FPlan_15.dwg

PROJECT
PROPOSED SUBDIVISION
PARTRIDGE CREEK
RESIDENTIAL, THURMSTER

SHEET SUBJECT
CONCEPT CATCHMENT PLAN

CLIENT
PMHC

PROJECT NO.	SHEET NO.	ISSUE	DATE
160059	12	J	June 2016
COUNCIL REF.	SCALE		
	NTS		

DESIGNED	CHECKED	DRAWN	CHECKED
MM		ZS	



MJM
CONSULTING ENGINEERS
CIVIL • STRUCTURAL • BUILDING DESIGN • PLANNING

Wagga Wagga
Level 1, 37 Johnston Street
(02) 6921 8333
admin@mjm-solutions.com
www.mjm-solutions.com
Boulton Pty. Ltd. trading as MJM Consulting Engineers
ABN 16 107 336 350 ACN 107 336 350

I HEREBY CERTIFY THAT ENGINEERING WORKS AS SHOWN ON THIS PLAN ARE WORK AS EXECUTED AND HAVE BEEN CONSTRUCTED GENERALLY IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS APPROVED BY THE DIRECTOR, IN ACCORDANCE WITH THE GENERAL REQUIREMENTS OF THE LOCAL COUNCIL.







NAME: Michael J. McFeeters

SIGNATURE:

CAPACITY: Director

DATE:

LEGEND

-  SEWER LINE
-  STAGE 1 SEWER
-  RISING MAIN
-  PUMP STATION
-  PITS
-  ROAD



No.	DATE	AMENDMENTS	BY
F	06/09/2017	LOT 829 UPDATED	ZS
G	08/12/2017	ISSUED FOR APPROVAL	ZS
H	21/12/2017	ISSUED FOR APPROVAL	ZS
I	23/07/2018	ISSUED FOR APPROVAL	ZS

Filename: C:\160059_Plan_15.dwg

PROJECT
**PROPOSED SUBDIVISION
PARTRIDGE CREEK
RESIDENTIAL, THURMSTER**

SHEET SUBJECT
CONCEPT SEWER STRATEGY PLAN

CLIENT
PMHC

PROJECT NO.	SHEET NO.	ISSUE	DATE
160059	13	I	June 2016

COUNCIL REF.	SCALE
	1:2000 (A1) 1:4000 (A3)

DESIGNED	CHECKED	DRAWN	CHECKED
MM		ZS	



MJM
CONSULTING ENGINEERS
CIVIL • STRUCTURAL • BUILDING DESIGN • PLANNING

Wagga Wagga
Level 1, 37 Johnston Street
(02) 6921 8333
admin@mjmsolutions.com
www.mjmsolutions.com

Griffith
Level 1, 130 Benna Avenue
(02) 6962 9922
Boutfort Pty Ltd, trading as MJM Consulting Engineers
ABN 16 107 258 350 ACN 107 258 350

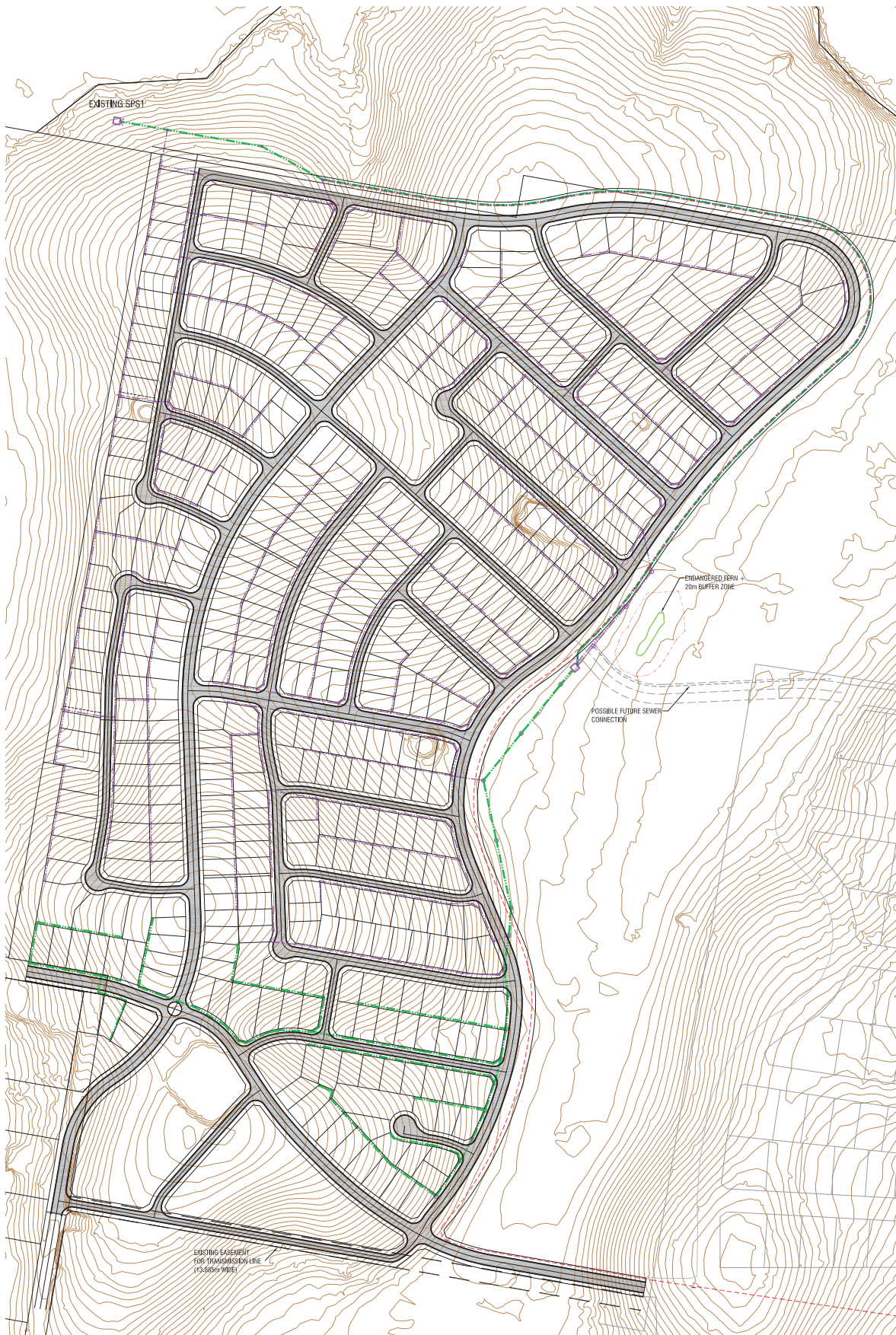
I HEREBY CERTIFY THAT ENGINEERING WORKS AS SHOWN ON THIS PLAN ARE WORK AS EXECUTED AND HAVE BEEN CONSTRUCTED GENERALLY IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS APPROVED BY THE DIRECTOR, IN ACCORDANCE WITH THE GENERAL REQUIREMENTS OF THE LOCAL COUNCIL.

NAME: Michael J. McFeeters

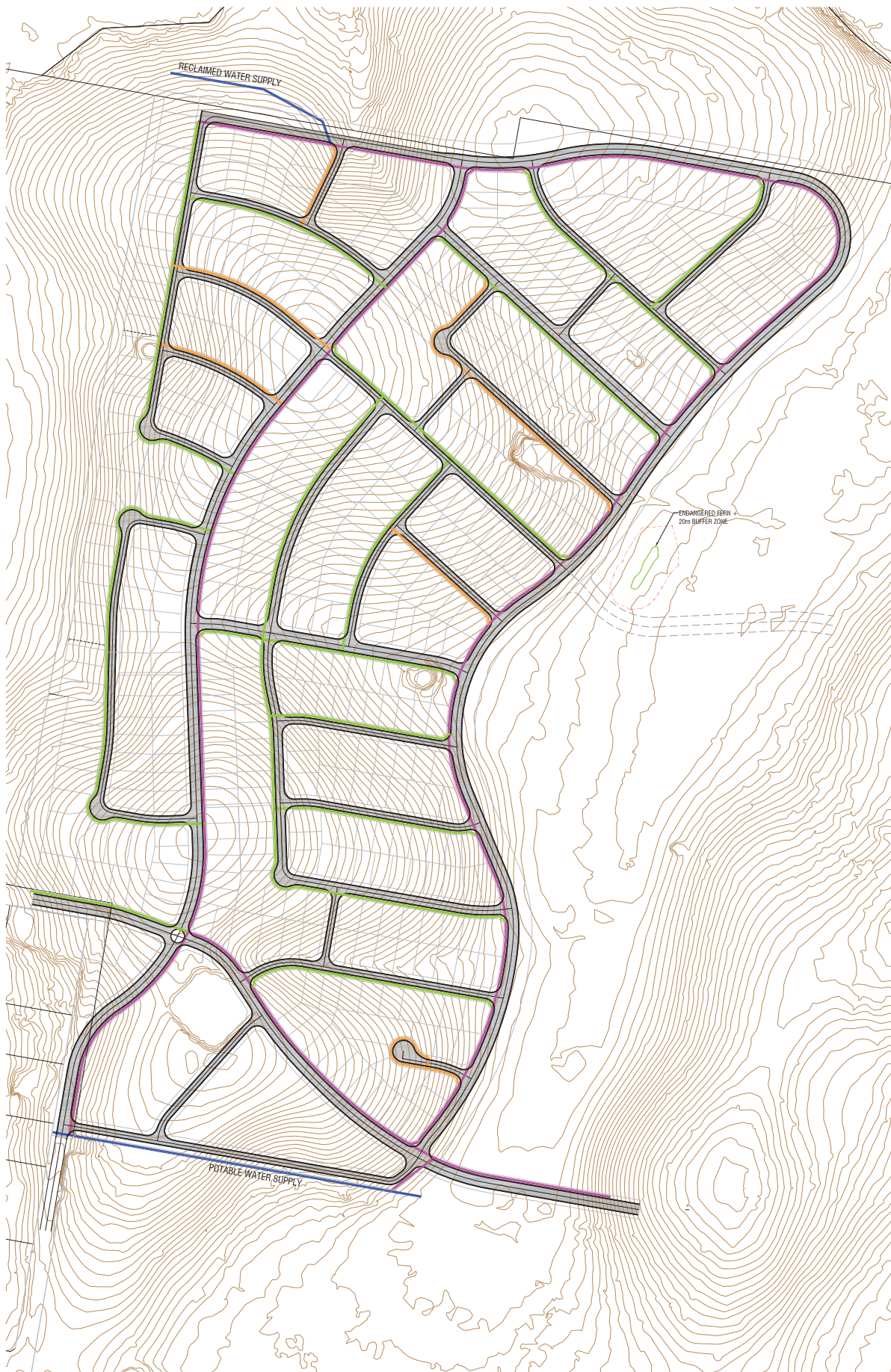
SIGNATURE:

CAPACITY: Director

DATE:



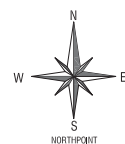
EXISTING SEWER
FOR TRANSMISSION LINE
(1:50000/1000)



NOTE: ALL PIPE WORK DENOTED IS A DUAL USE SYSTEM COMPRISED OF A POTABLE WATER LINE AND A RECLAMATION WATER LINE.

LEGEND

- 1000
- 1500
- 2250
- 3000
- ROAD



No.	DATE	AMENDMENTS	BY
D	06/09/2017	LOT 829 UPDATED	ZS
E	08/12/2017	ISSUED FOR APPROVAL	ZS
F	21/12/2017	ISSUED FOR APPROVAL	ZS
G	23/07/2018	ISSUED FOR APPROVAL	ZS

Filename: C:\160059_Plan_15.dwg

PROJECT
**PROPOSED SUBDIVISION
PARTRIDGE CREEK
RESIDENTIAL, THURMSTER**

SHEET SUBJECT
**WATER SUPPLY
STRATEGY PLAN**

CLIENT
PMHC

PROJECT NO.	SHEET NO.	ISSUE	DATE
160059	14	G	June 2016
COUNCIL REF.	SCALE		
	1:2000 (A1) 1:4000 (A3)		
DESIGNED	CHECKED	DRAWN	CHECKED
MM		ZS	



MJM
CONSULTING ENGINEERS
CIVIL • STRUCTURAL • BUILDING DESIGN • PLANNING

Wagga Wagga
Level 1, 37 Johnston Street
(02) 6921 8333
admin@mjmsolutions.com
www.mjmsolutions.com

Griffith
Level 1, 130 Banna Avenue
(02) 6962 9922
admin@mjmsolutions.com
www.mjmsolutions.com

Bowditch Pty Ltd, trading as MJM Consulting Engineers
ABN 16 107 258 350 ACN 107 258 350

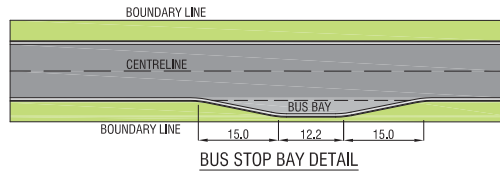
I HEREBY CERTIFY THAT ENGINEERING WORKS AS SHOWN ON THIS PLAN ARE WORK AS EXECUTED AND HAVE BEEN CONSTRUCTED GENERALLY IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS APPROVED BY THE DIRECTOR, IN ACCORDANCE WITH THE GENERAL REQUIREMENTS OF THE LOCAL COUNCIL.

NAME: Michael J. McFeeters

SIGNATURE:

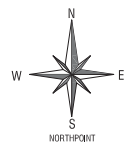
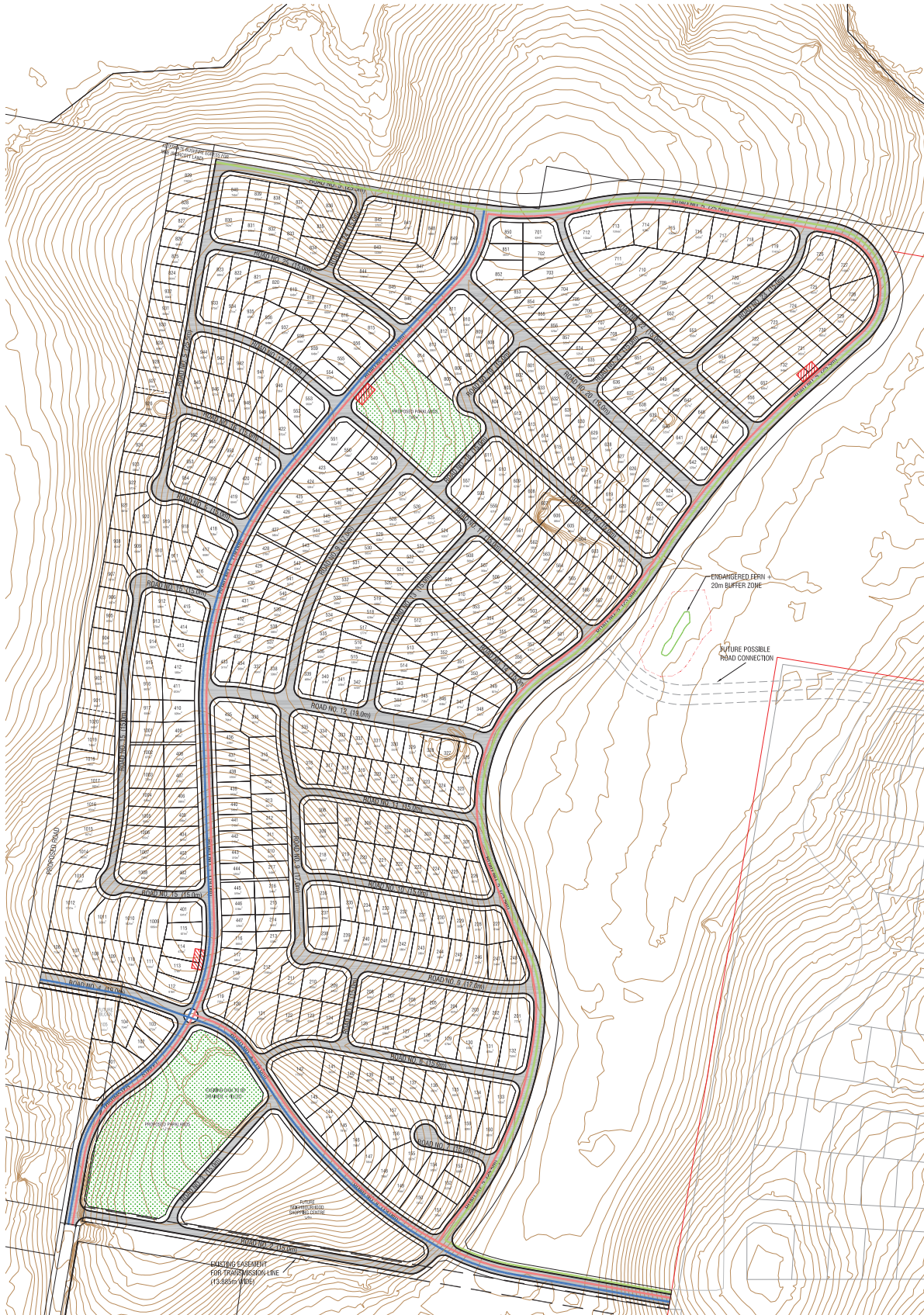
CAPACITY: Director

DATE:



LEGEND

- FOOTPATH ROUTE
- BUS ROUTE
- OFF - ROAD SHAREWAY
- BUS STOP
- ROAD



No.	DATE	AMENDMENTS	BY
E	06/09/2017	LOT NUMBERS UPDATED	ZS
F	08/12/2017	ISSUED FOR APPROVAL	ZS
G	21/12/2017	ISSUED FOR APPROVAL	ZS
H	23/07/2018	ISSUED FOR APPROVAL	ZS

Filename: C:\160059_FPlan_15.dwg

PROJECT
**PROPOSED SUBDIVISION
PARTRIDGE CREEK
RESIDENTIAL THURMSTER**

SHEET SUBJECT
**PEDESTRIAN AND PUBLIC
TRANSPORT FACILITIES PLAN**

CLIENT

PMHC

PROJECT NO.	SHEET NO.	ISSUE	DATE
160059	15	H	June 2016
COUNCIL REF.	SCALE		
	1:2000 (A1) 1:4000 (A3)		

DESIGNED	CHECKED	DRAWN	CHECKED
MM		ZS	



MJM
CONSULTING ENGINEERS
CIVIL • STRUCTURAL • BUILDING DESIGN • PLANNING

Wagga Wagga
Level 1, 37 Johnston Street
(02) 6921 8333
admin@mjm-solutions.com
www.mjm-solutions.com
Griffith
Level 1, 130 Banna Avenue
(02) 6962 9922
Boutford Pty. Ltd. trading as MJM Consulting Engineers
ABN 16 107 258 350 ACN 107 258 350

I HEREBY CERTIFY THAT ENGINEERING WORKS AS SHOWN ON THIS PLAN ARE WORK AS EXECUTED AND HAVE BEEN CONSTRUCTED GENERALLY IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS APPROVED BY THE DIRECTOR, IN ACCORDANCE WITH THE GENERAL REQUIREMENTS OF THE LOCAL COUNCIL.

NAME: Michael J. McFeeters

SIGNATURE:

CAPACITY: Director

DATE:

LEGEND

-  ASSET PROTECTION ZONE
-  BUSHFIRE PRONE AREA
-  BUFFER ZONE
-  BUILDING ENVELOPE LOT 101 - 558m²



No.	DATE	AMENDMENTS	BY
E	08/12/2017	ISSUED FOR APPROVAL	ZS
F	21/12/2017	ISSUED FOR APPROVAL	ZS
G	27/06/2018	ISSUED FOR APPROVAL	ZS
H	23/07/2018	ISSUED FOR APPROVAL	ZS

Filename: C:\160059_Plan_15.dwg

PROJECT
PROPOSED SUBDIVISION
PARTRIDGE CREEK
RESIDENTIAL, THURMSTER

SHEET SUBJECT
SITE LAYOUT/APZ PLAN

CLIENT
PMHC

PROJECT NO.	SHEET NO.	ISSUE	DATE
160059	16	H	June 2016
COUNCIL REF.	SCALE		
	1:2000 (A1) 1:4000 (A3)		

DESIGNED	CHECKED	DRAWN	CHECKED
MM		ZS	



MJM
CONSULTING ENGINEERS
 CIVIL • STRUCTURAL • BUILDING DESIGN • PLANNING

Wagga Wagga
 Level 1, 37 Johnston Street
 (02) 6921 8333
 admin@mjm-solutions.com
 www.mjm-solutions.com
 Bowdoin Pty. Ltd. trading as MJM Consulting Engineers
 ABN 16 107 258 350 ACN 107 258 350

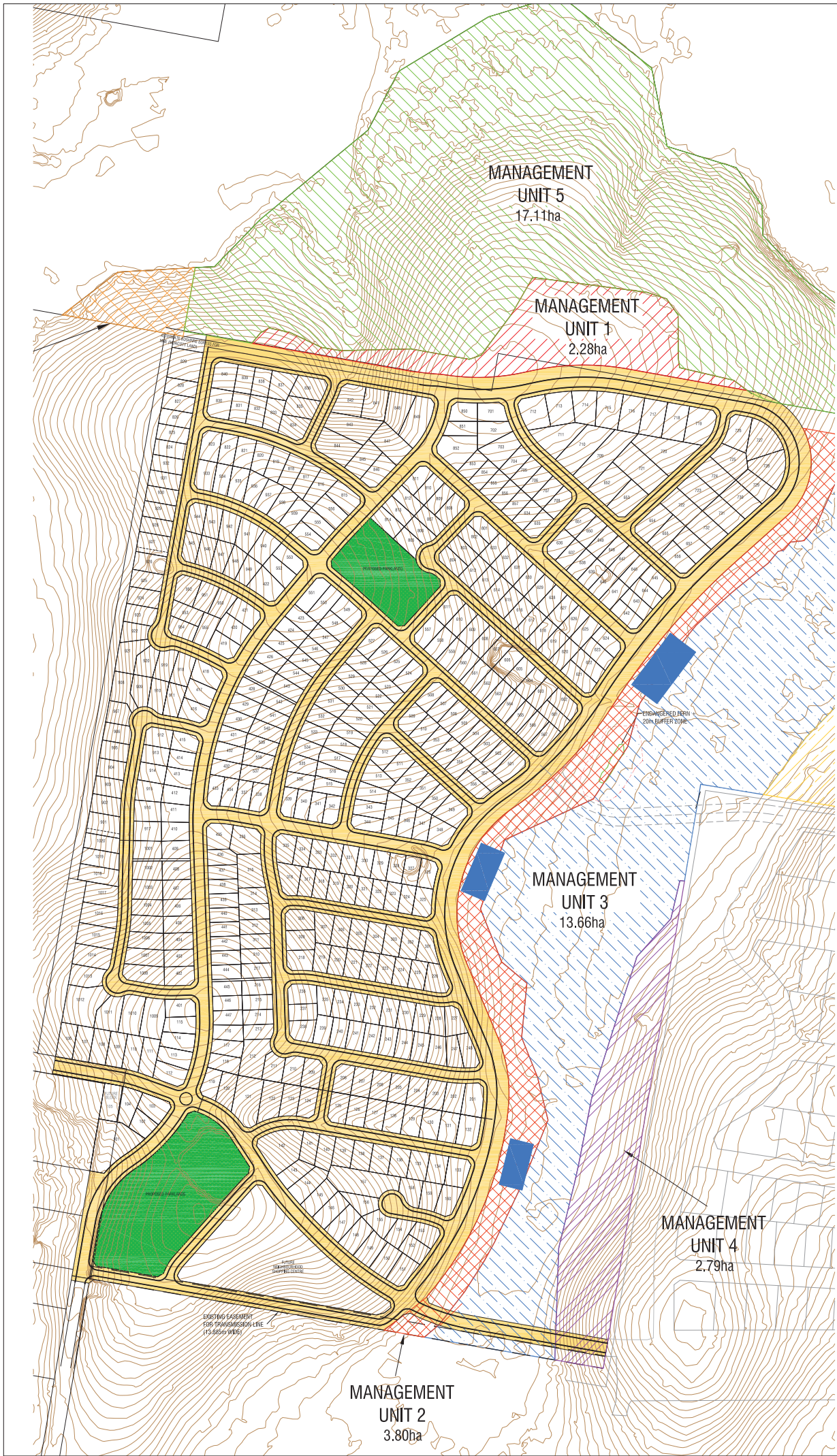
I HEREBY CERTIFY THAT ENGINEERING WORKS AS SHOWN ON THIS PLAN ARE WORK AS EXECUTED AND HAVE BEEN CONSTRUCTED GENERALLY IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS APPROVED BY THE DIRECTOR, IN ACCORDANCE WITH THE GENERAL REQUIREMENTS OF THE LOCAL COUNCIL.

NAME: Michael J. McFeeters

SIGNATURE:

CAPACITY: Director

DATE:



LEGEND

- ROAD
- ACTIVE PARK
- DRAINAGE BASIN



No.	DATE	AMENDMENTS	BY
F	06/09/2017	LOT 829 UPDATED	ZS
G	08/12/2017	ISSUED FOR APPROVAL	ZS
H	21/12/2017	ISSUED FOR APPROVAL	ZS
I	23/07/2018	ISSUED FOR APPROVAL	ZS

Filename: C:\160059_Plan_15.dwg

PROJECT
PROPOSED SUBDIVISION
PARTRIDGE CREEK
RESIDENTIAL THURMSTER

SHEET SUBJECT
PUBLIC RESERVES PLAN

CLIENT
PMHC

PROJECT NO.	SHEET NO.	ISSUE	DATE
160059	17	I	June 2016
COUNCIL REF.	SCALE		
	1:2000 (A1) 1:4000 (A3)		

DESIGNED	CHECKED	DRAWN	CHECKED
MM		ZS	



MJM
CONSULTING ENGINEERS
CIVIL • STRUCTURAL • BUILDING DESIGN • PLANNING

Wagga Wagga
Level 1, 37 Johnston Street
(02) 6921 8333
admin@mjm-solutions.com
www.mjm-solutions.com
Boulton Pty. Ltd. trading as MJM Consulting Engineers
ABN 16 107 535 353 ACN 107 535 353
Griffith
Level 1, 130 Benna Avenue
(02) 6962 9922

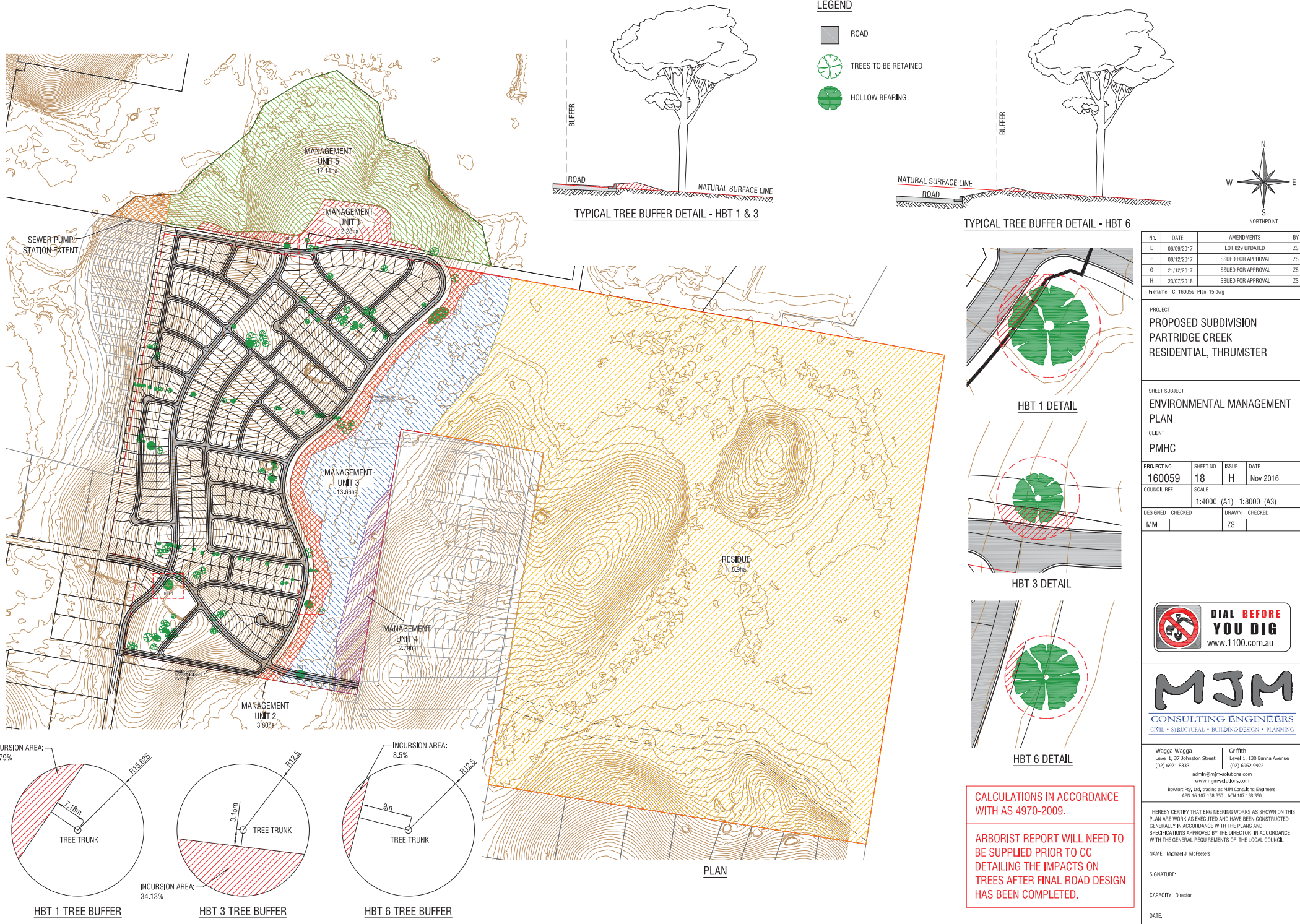
I HEREBY CERTIFY THAT ENGINEERING WORKS AS SHOWN ON THIS PLAN ARE WORK AS EXECUTED AND HAVE BEEN CONSTRUCTED GENERALLY IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS APPROVED BY THE DIRECTOR, IN ACCORDANCE WITH THE GENERAL REQUIREMENTS OF THE LOCAL COUNCIL.

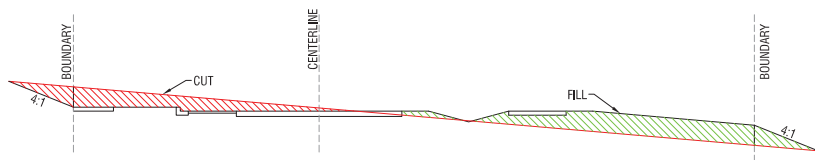
NAME: Michael J. McFeeters

SIGNATURE:

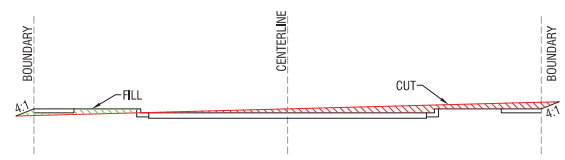
CAPACITY: Director

DATE:

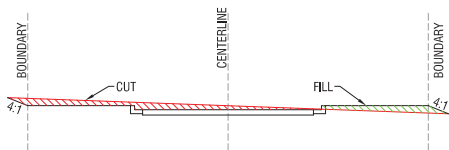




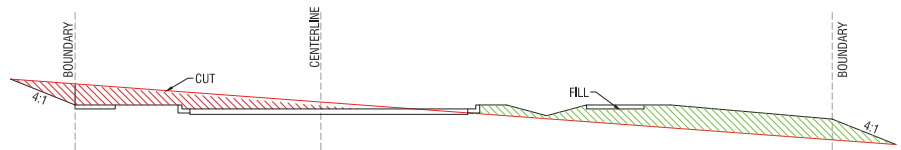
SECTION A-A (25.5m ROAD)



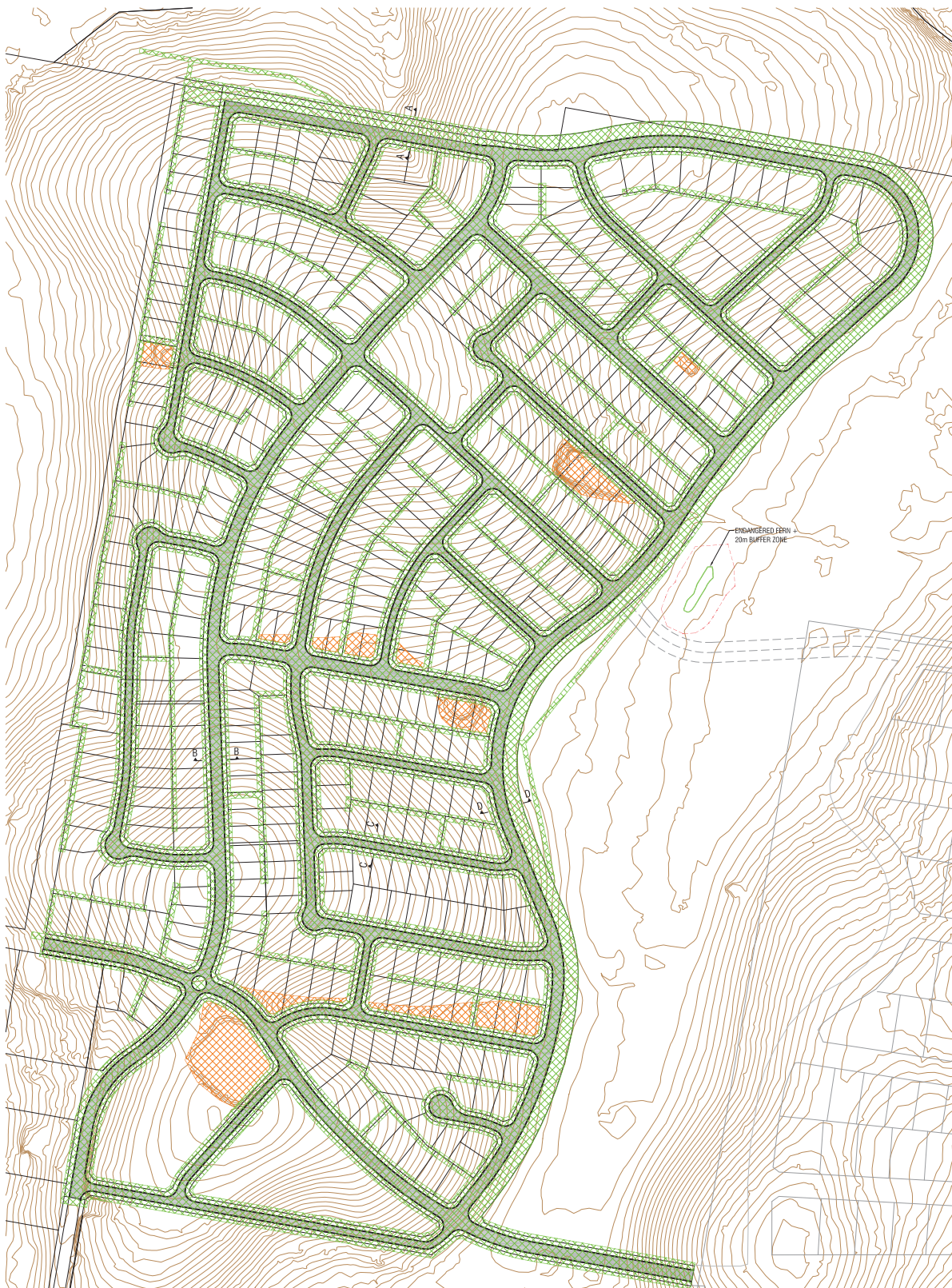
SECTION B-B (19m ROAD)






SECTION C-C (15m ROAD)



SECTION D-D (28.2m ROAD)



LEGEND

-  CUT/FILL - DISTURBED AREA
-  LOT FILLING
-  ROAD



No.	DATE	AMENDMENTS	BY
C	06/09/2017	LOT 829 UPDATED	ZS
D	08/12/2017	ISSUED FOR APPROVAL	ZS
E	21/12/2017	ISSUED FOR APPROVAL	ZS
F	23/07/2018	ISSUED FOR APPROVAL	ZS

Filename: C_160059_Plan_15.dwg

PROJECT
**PROPOSED SUBDIVISION
 PARTRIDGE CREEK
 RESIDENTIAL THURMSTER**

SHEET SUBJECT
**PRELIMINARY EARTHWORKS
 DESIGN PLAN**

CLIENT

PMHC

PROJECT NO.	SHEET NO.	ISSUE	DATE
160059	19	F	June 2016
COUNCIL REF.	SCALE		
	1:2000 (A1) 1:4000 (A3)		

DESIGNED	CHECKED	DRAWN	CHECKED
MM		ZS	



MJM
 CONSULTING ENGINEERS
 CIVIL • STRUCTURAL • BUILDING DESIGN • PLANNING

Wagga Wagga
 Level 1, 37 Johnston Street
 (02) 6923 8333
 admin@mjm-solutions.com
 www.mjm-solutions.com

Griffith
 Level 1, 130 Benna Avenue
 (02) 6962 9922
 admin@mjm-solutions.com
 www.mjm-solutions.com

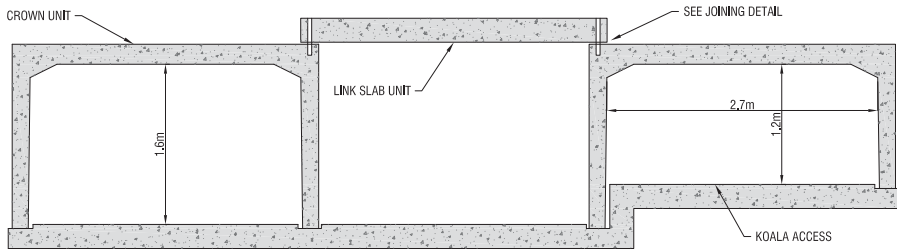
I HEREBY CERTIFY THAT ENGINEERING WORKS AS SHOWN ON THIS PLAN ARE WORK AS EXECUTED AND HAVE BEEN CONSTRUCTED GENERALLY IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS APPROVED BY THE DIRECTOR, IN ACCORDANCE WITH THE GENERAL REQUIREMENTS OF THE LOCAL COUNCIL.

NAME: Michael J. McFeeters

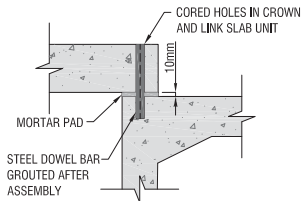
SIGNATURE:

CAPACITY: Director

DATE:



CULVERT SECTION



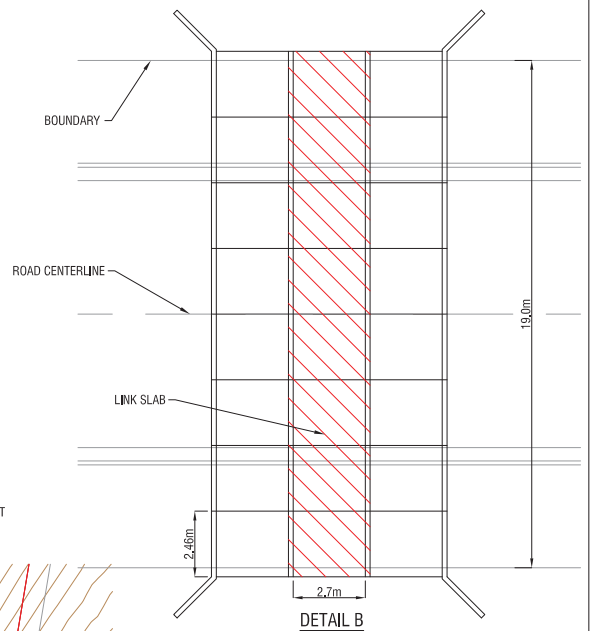
JOINING DETAIL

BOX CULVERT	NO. CELLS	WIDTH	HEIGHT	HEAD	LENGTH	Q
	3.00	2.70	1.20	0.10	19.68m	12.13
	AREA	3.24	WP	2.41		

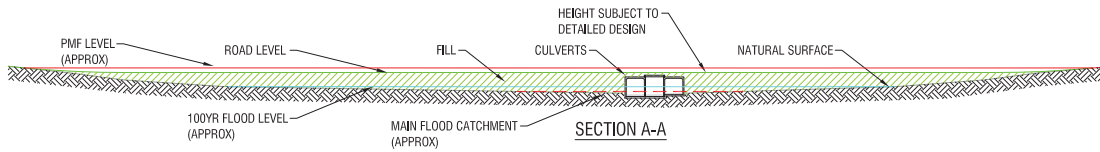
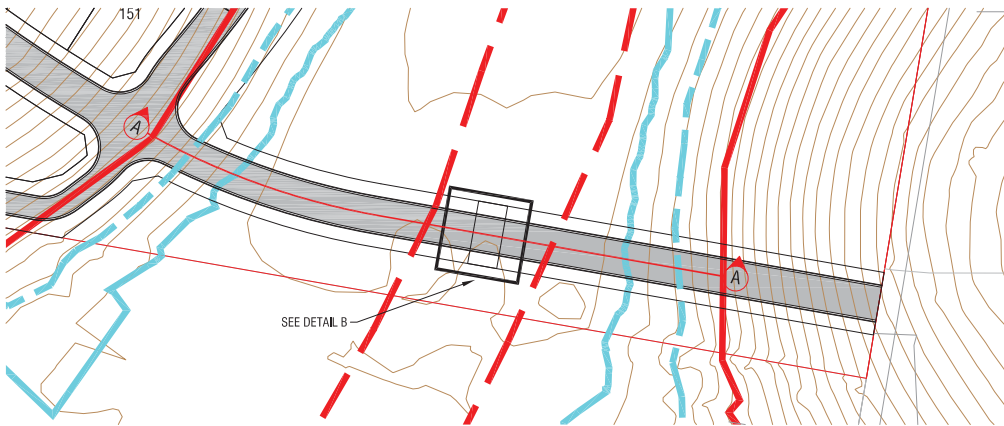
LEGEND

- 100YR AFI FLOOD LEVEL
- 100YR + 900mm
- PMF LEVEL
- MAIN FLOOD CATCHMENT

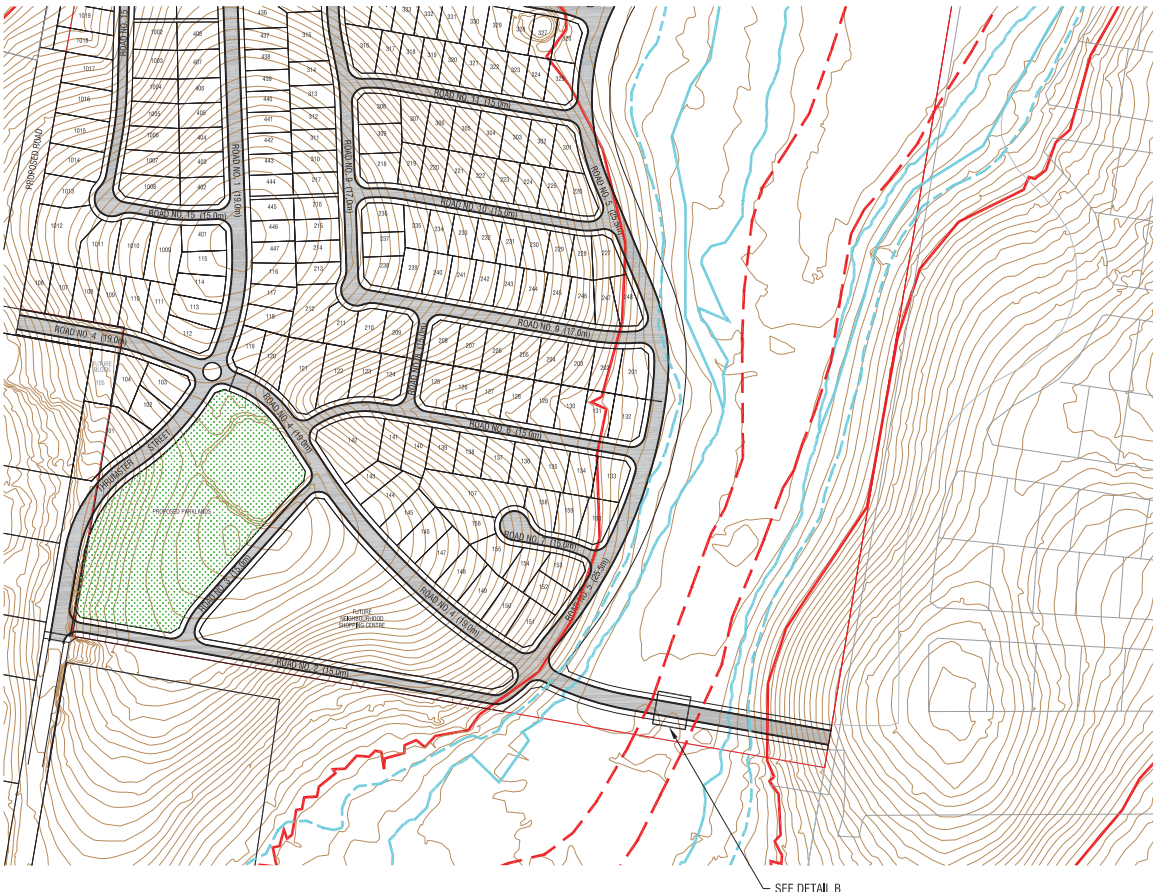
SUBJECT TO DETAILED DESIGN
PRIOR TO CONSTRUCTION CERTIFICATE



DETAIL B



SECTION A-A



No.	DATE	AMENDMENTS	BY
E	08/12/2017	ISSUED FOR APPROVAL	ZS
F	19/12/2017	ISSUED FOR APPROVAL	ZS
G	21/12/2017	ISSUED FOR APPROVAL	ZS
H	23/07/2018	ISSUED FOR APPROVAL	ZS

Filename: C:\160059_Plan_15.dwg

PROJECT
**PROPOSED SUBDIVISION
PARTRIDGE CREEK
RESIDENTIAL THURMSTER**

SHEET SUBJECT
CULVERT DESIGN

CLIENT
PMHC

PROJECT NO.	SHEET NO.	ISSUE	DATE
160059	20	H	Dec 2016

COUNCIL REF.	SCALE
	1:2000 (A1) 1:4000 (A3)

DESIGNED	CHECKED	DRAWN	CHECKED
MM		ZS	



MJM
CONSULTING ENGINEERS
CIVIL • STRUCTURAL • BUILDING DESIGN • PLANNING

Wagga Wagga
Level 1, 37 Johnston Street
(02) 6921 8333
admin@mjm-solutions.com
www.mjm-solutions.com
Borlton Pty. Ltd. trading as MJM Consulting Engineers
ABN 16 107 158 350 ACN 107 158 350

I HEREBY CERTIFY THAT ENGINEERING WORKS AS SHOWN ON THIS PLAN ARE WORK AS EXECUTED AND HAVE BEEN CONSTRUCTED GENERALLY IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS APPROVED BY THE DIRECTOR, IN ACCORDANCE WITH THE GENERAL REQUIREMENTS OF THE LOCAL COUNCIL.

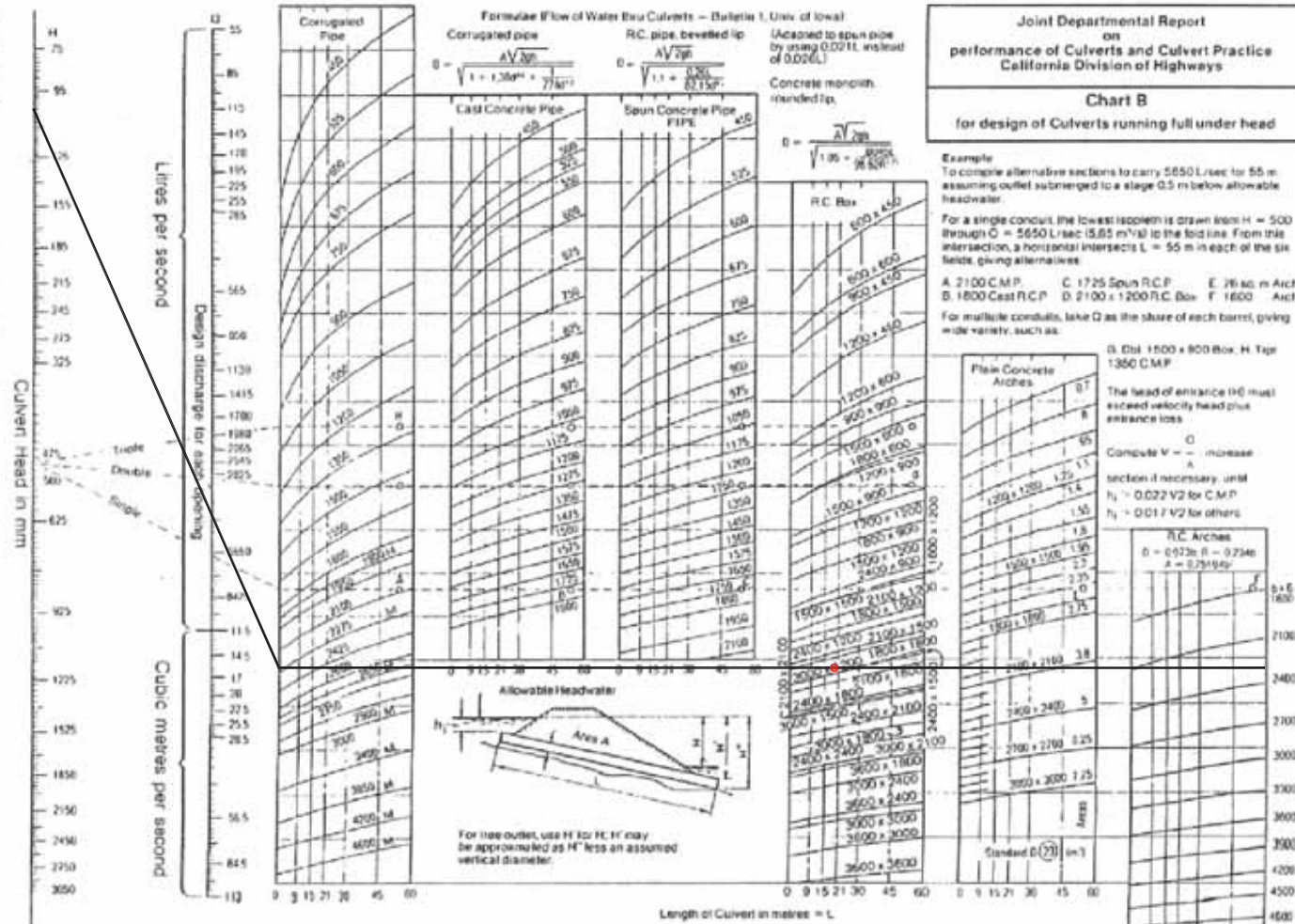
NAME: Michael J. McFeeters

SIGNATURE:

CAPACITY: Director

DATE:

NOTE — See notes on method 1 on P6, particularly the paragraph on rounded entry. For concrete pipe, the "female" end of a flush joint pipe provides a rounded entry condition, and this would similarly apply for a box culvert.



THE NOMINATED BOX CULVERT SIZE AS SHOWN BY THE CHART ABOVE IS A 3.0m x 1.2m x 3. THE SURFACE AREA OF ONE 3.0m x 1.2m CULVERT IS EQUAL TO 3.6m². OUR DESIGN HAS SHOWN AN AVERAGE CULVERT SIZE OF 2.7m x 1.4m x 3. THE SURFACE AREA FOR ONE 2.7m x 1.4m CULVERT IS EQUAL TO 3.78m². PLEASE NOTE THE TABLE ON SHEET 20 WAS GENERATED FROM THE R.C. BOX EQUATION AS NOTED ON THE CHART ABOVE.

No.	DATE	AMENDMENTS	BY
A	23/08/2018	ISSUED FOR APPROVAL	ZS

Filename: C:\160059_Plan_15.dwg
PROJECT
**PROPOSED SUBDIVISION
PARTRIDGE CREEK
RESIDENTIAL THURMSTER**

SHEET SUBJECT
CULVERT DESIGN CALC SHEET

CLIENT
PMHC

PROJECT NO.	SHEET NO.	ISSUE	DATE
160059	20A	A	Aug 2018
COUNCIL REF.	SCALE		

DESIGNED	CHECKED	DRAWN	CHECKED
MM		ZS	

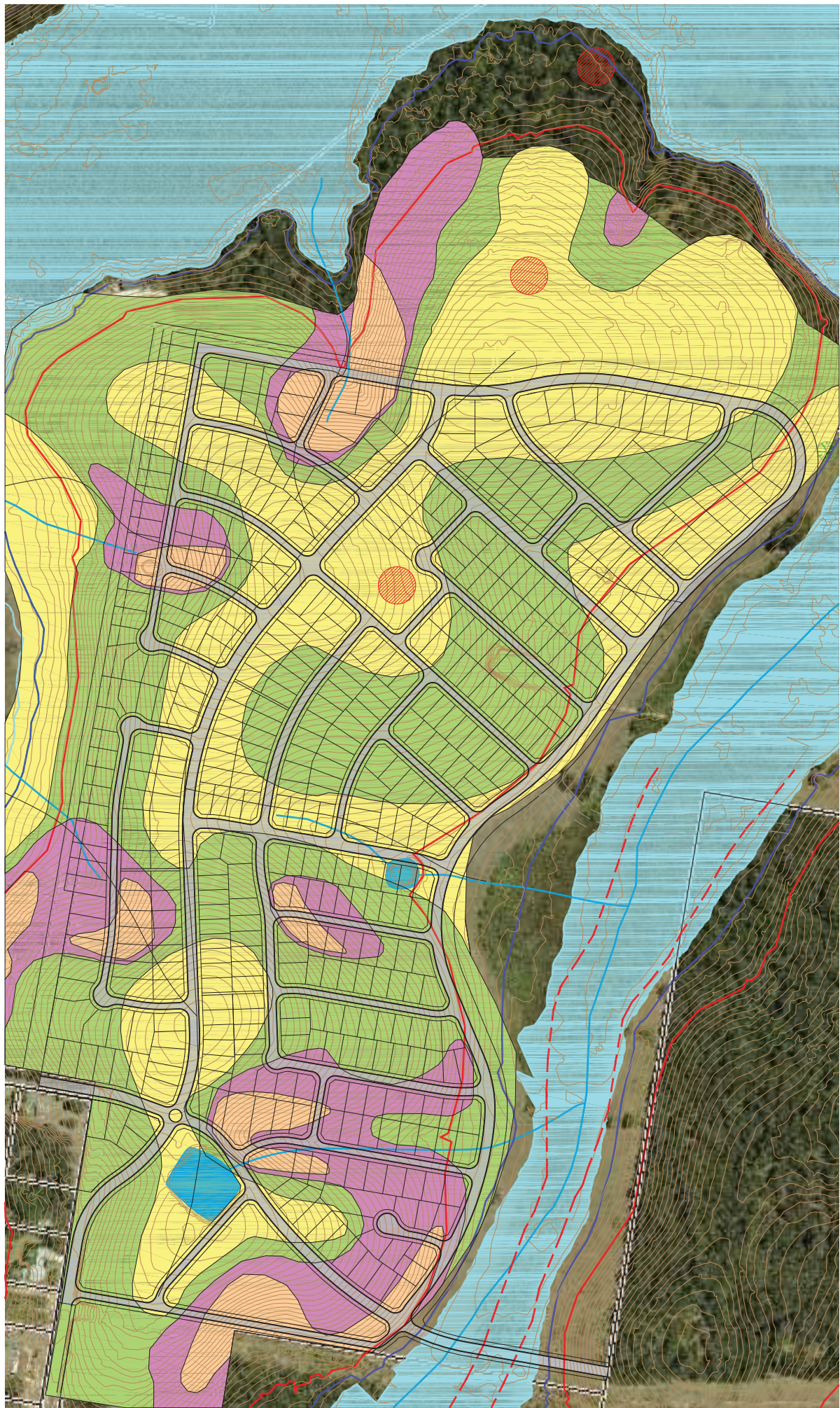


MJM
CONSULTING ENGINEERS
CIVIL • STRUCTURAL • BUILDING DESIGN • PLANNING

Wagga Wagga
Level 1, 37 Johnston Street
(02) 6921 8333
adm@mjmsolutions.com
www.mjmsolutions.com
Boronia Pty. Ltd, trading as MJM Consulting Engineers
ABN 35 157 158 350 ACH 157 158 350

I HEREBY CERTIFY THAT ENGINEERING WORKS AS SHOWN ON THIS PLAN ARE WORK AS EXECUTED AND HAVE BEEN CONSTRUCTED GENERALLY IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS APPROVED BY THE DIRECTOR, IN ACCORDANCE WITH THE GENERAL REQUIREMENTS OF THE LOCAL COUNCIL.

NAME: Michael J. McFeters
SIGNATURE:
CAPACITY: Director
DATE:



LEGEND

- 3% - 6%
- 6% - 9%
- 9% - 12%
- 12% - 15%
- EXISTING CREEK LINE
- 100YR ARI FLOOD LEVEL
- PMF LEVEL
- MAIN FLOOD CATCHMENT
- ABORIGINAL ARCHAEOLOGY "KNOWN SITE"
- EXISTING DAMS
- ROAD



No.	DATE	AMENDMENTS	BY
G	06/09/2017	LOT 829 UPDATED	ZS
H	08/12/2017	ISSUED FOR APPROVAL	ZS
I	21/12/2017	ISSUED FOR APPROVAL	ZS
J	23/07/2018	ISSUED FOR APPROVAL	ZS

Filename: C:\160059_Plan_15.dwg

PROJECT
PROPOSED SUBDIVISION
PARTRIDGE CREEK
RESIDENTIAL, THRUMSTER

SHEET SUBJECT
SITE ANALYSIS PLAN

CLIENT
PMHC

PROJECT NO.	SHEET NO.	ISSUE	DATE
160059	21	J	June 2016
COUNCIL REF.		SCALE	
		1:2000 (A1) 1:4000 (A3)	

DESIGNED	CHECKED	DRAWN	CHECKED
MM		ZS	



MJM
CONSULTING ENGINEERS
CIVIL • STRUCTURAL • BUILDING DESIGN • PLANNING

Wagga Wagga
Level 1, 37 Johnston Street
(02) 6921 8333
admb@mjm-solutions.com
www.mjm-solutions.com
Boulton Pty. Ltd. trading as MJM Consulting Engineers
ABN 16 107 436 350 ACN 107 436 350
Griffith
Level 1, 130 Benna Avenue
(02) 6962 9922

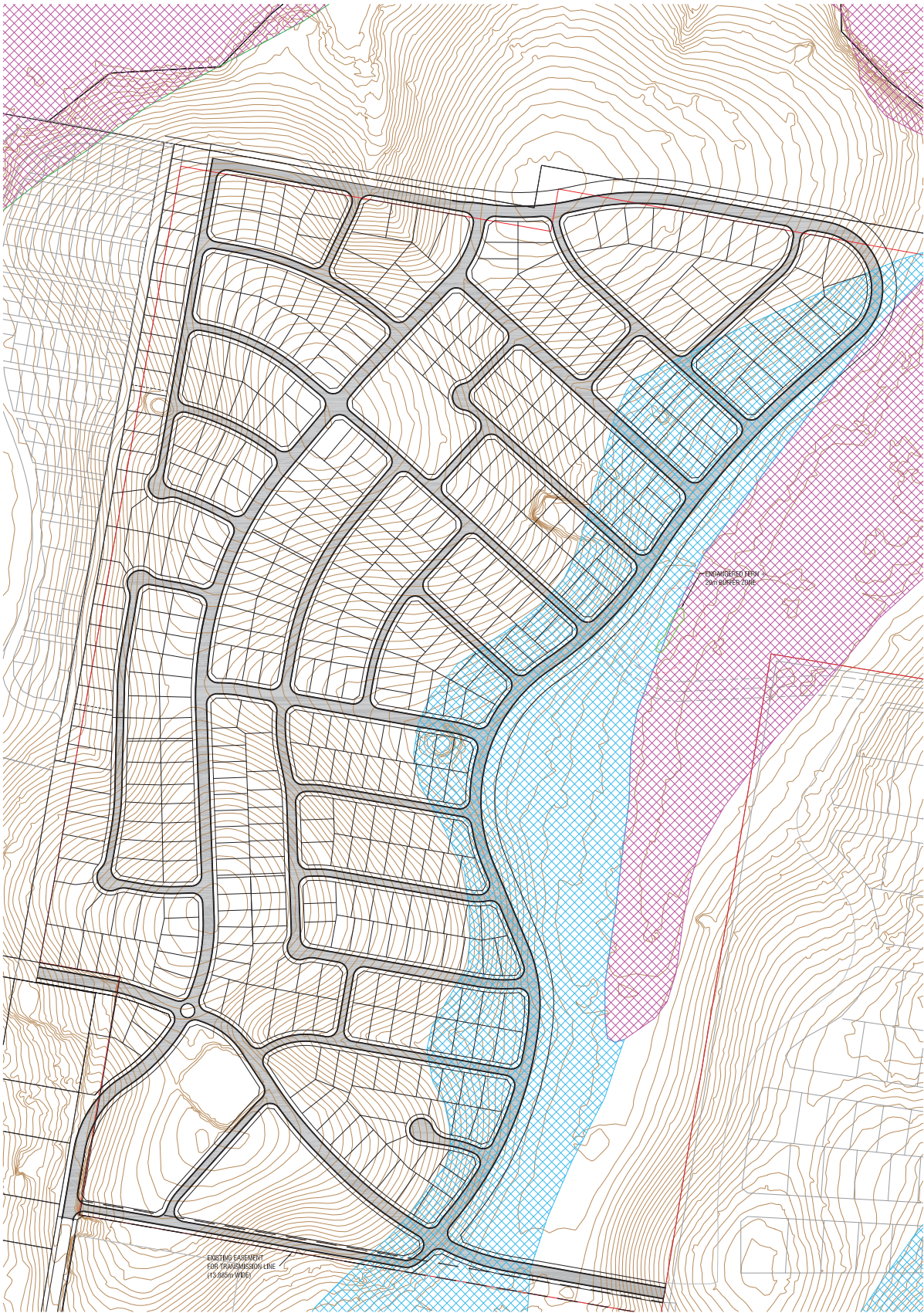
I HEREBY CERTIFY THAT ENGINEERING WORKS AS SHOWN ON THIS PLAN ARE WORK AS EXECUTED AND HAVE BEEN CONSTRUCTED GENERALLY IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS APPROVED BY THE DIRECTOR, IN ACCORDANCE WITH THE GENERAL REQUIREMENTS OF THE LOCAL COUNCIL.

NAME: Michael J. McFeeters

SIGNATURE:

CAPACITY: Director

DATE:



LEGEND

- CLASS 5
- CLASS 2
- ROAD



No.	DATE	AMENDMENTS	BY
D	06/09/2017	LOT 829 UPDATED	ZS
E	08/12/2017	ISSUED FOR APPROVAL	ZS
F	21/12/2017	ISSUED FOR APPROVAL	ZS
G	23/07/2018	ISSUED FOR APPROVAL	ZS

Filename: C:\160059_Plan_15.dwg

PROJECT
PROPOSED SUBDIVISION
PARTRIDGE CREEK
RESIDENTIAL THURMSTER

SHEET SUBJECT
ACID SULFATE SOIL PLAN

CLIENT
PMHC

PROJECT NO.	SHEET NO.	ISSUE	DATE
160059	22	G	June 2016
COUNCIL REF.		SCALE	
		1:2000 (A1) 1:4000 (A3)	
DESIGNED	CHECKED	DRAWN	CHECKED
MM		ZS	



MJM
CONSULTING ENGINEERS
CIVIL • STRUCTURAL • BUILDING DESIGN • PLANNING

Wagga Wagga
Level 1, 37 Johnston Street
(02) 6921 8333
admin@mjmsolutions.com
www.mjmsolutions.com
Griffith
Level 1, 130 Banna Avenue
(02) 6962 9922
Boutfort Pty Ltd, trading as MJM Consulting Engineers
ABN 16 107 258 350 A/CN 107 258 350

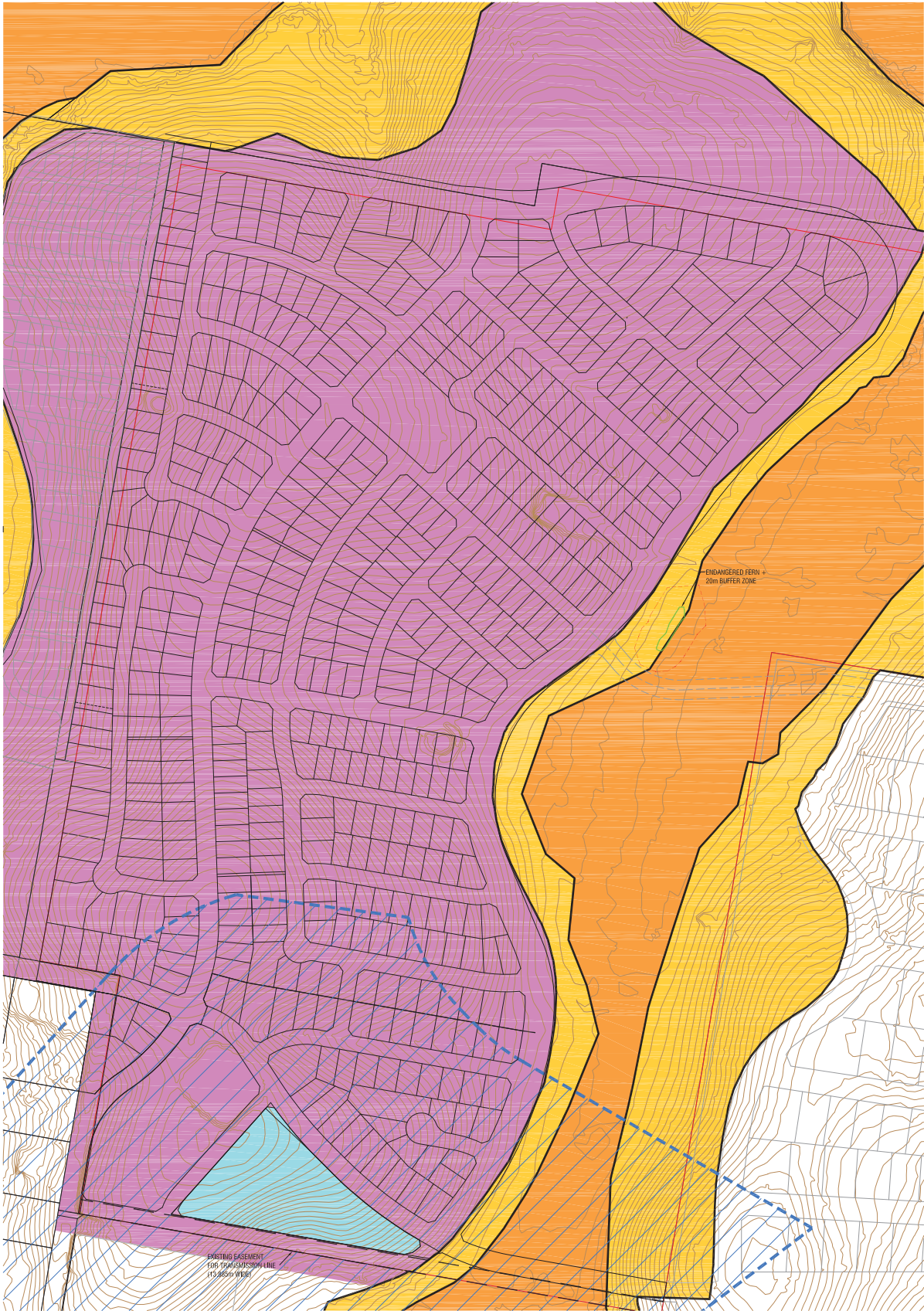
I HEREBY CERTIFY THAT ENGINEERING WORKS AS SHOWN ON THIS PLAN ARE WORK AS EXECUTED AND HAVE BEEN CONSTRUCTED GENERALLY IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS APPROVED BY THE DIRECTOR, IN ACCORDANCE WITH THE GENERAL REQUIREMENTS OF THE LOCAL COUNCIL.

NAME: Michael J. McFeeters

SIGNATURE:

CAPACITY: Director

DATE:



LEGEND

- E2
- E3
- B1
- R1

200m BUFFER AROUND B1 ZONE



No.	DATE	AMENDMENTS	BY
E	06/09/2017	LOT 829 UPDATED	ZS
F	09/12/2017	ISSUED FOR APPROVAL	ZS
G	21/12/2017	ISSUED FOR APPROVAL	ZS
H	23/07/2018	ISSUED FOR APPROVAL	ZS

Filename: C:\160059_Plan_15.dwg

PROJECT
PROPOSED SUBDIVISION
PARTRIDGE CREEK
RESIDENTIAL, THURMSTER

SHEET SUBJECT
ZONING PLAN

CLIENT
PMHC

PROJECT NO.	SHEET NO.	ISSUE	DATE
160059	23	H	June 2016

COUNCIL REF.	SCALE
	1:2000 (A1) 1:4000 (A3)

DESIGNED	CHECKED	DRAWN	CHECKED
MM		ZS	



Wagga Wagga
Level 1, 37 Johnston Street
(02) 6921 8333
admin@m3m-solutions.com
www.m3m-solutions.com
Griffith
Level 1, 130 Banna Avenue
(02) 6962 9922
Boutort Pty. Ltd. trading as M3M Consulting Engineers
ABN 16 107 436 350 ACN 107 436 350

I HEREBY CERTIFY THAT ENGINEERING WORKS AS SHOWN ON THIS PLAN ARE WORK AS EXECUTED AND HAVE BEEN CONSTRUCTED GENERALLY IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS APPROVED BY THE DIRECTOR, IN ACCORDANCE WITH THE GENERAL REQUIREMENTS OF THE LOCAL COUNCIL.

NAME: Michael J. McFeeters

SIGNATURE:

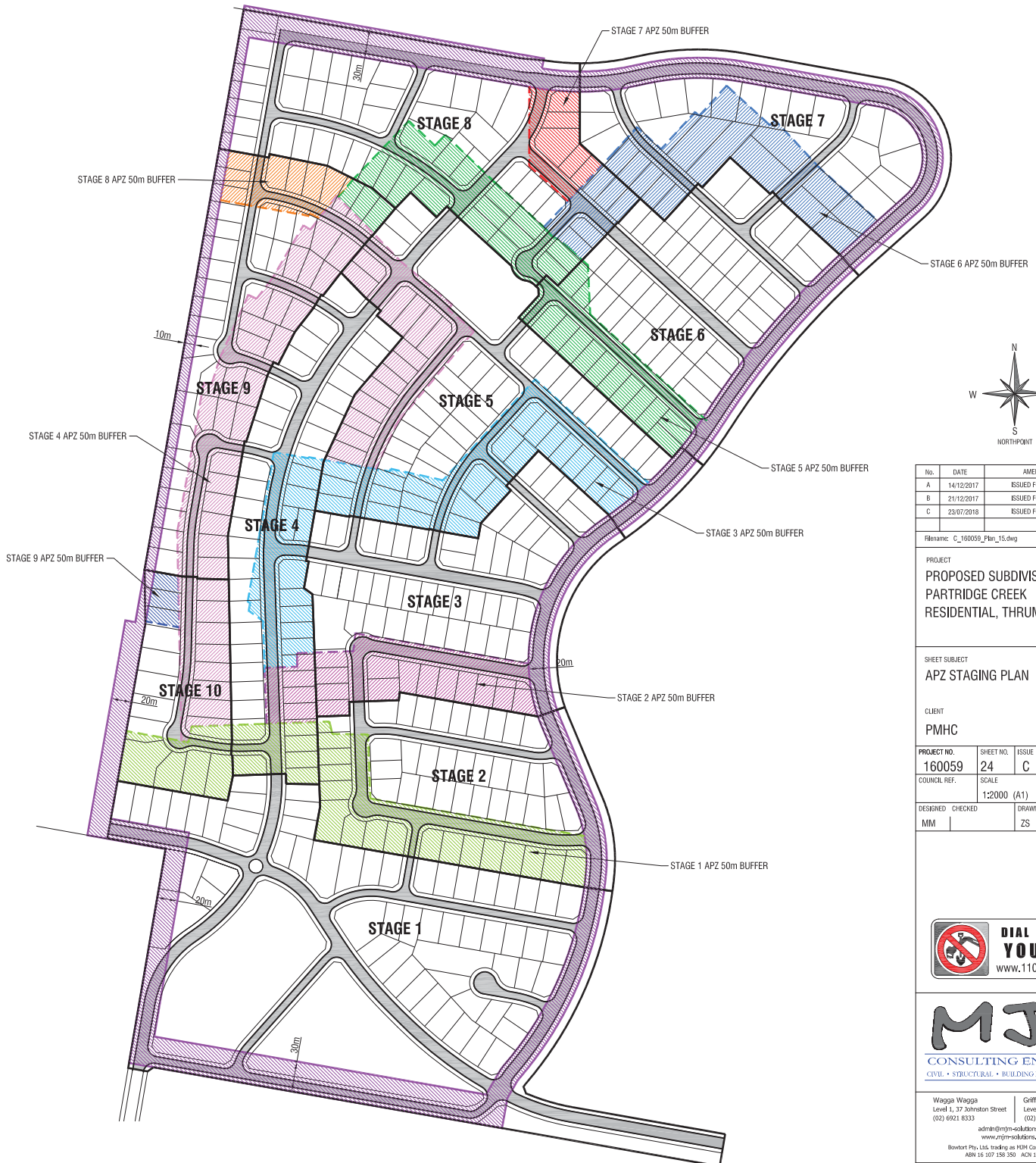
CAPACITY: Director

DATE:

NOTE: INTERNAL APZ'S ARE SHOWN IN ACCORDANCE WITH THE RECOMENDATIONS LISTED IN THE BUSHFIRE REPORT BY DAVID PENSINI, SEPTEMBER 2017

LEGEND

 ASSET PROTECTION ZONE



No.	DATE	AMENDMENTS	BY
A	14/12/2017	ISSUED FOR APPROVAL	ZS
B	21/12/2017	ISSUED FOR APPROVAL	ZS
C	23/07/2018	ISSUED FOR APPROVAL	ZS

Filename: C:\160059_Plan_15.dwg

PROJECT
PROPOSED SUBDIVISION
PARTRIDGE CREEK
RESIDENTIAL, THURMSTER

SHEET SUBJECT
APZ STAGING PLAN

CLIENT
PMHC

PROJECT NO.	SHEET NO.	ISSUE	DATE
160059	24	C	Dec 2017
COUNCIL REF.	SCALE		
	1:2000 (A1) 1:4000 (A3)		

DESIGNED	CHECKED	DRAWN	CHECKED
MM		ZS	



MJM
CONSULTING ENGINEERS
CIVIL • STRUCTURAL • BUILDING DESIGN • PLANNING

Wagga Wagga Level 1, 37 Johnston Street (02) 6921 8333 admin@mjmsolutions.com www.mjmsolutions.com	Griffith Level 1, 130 Banna Avenue (02) 6962 9922 Boutfort Pty. Ltd. trading as MJM Consulting Engineers ABN 16 107 258 350 ACN 107 258 350
--	---

I HEREBY CERTIFY THAT ENGINEERING WORKS AS SHOWN ON THIS PLAN ARE WORK AS EXECUTED AND HAVE BEEN CONSTRUCTED GENERALLY IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS APPROVED BY THE DIRECTOR, IN ACCORDANCE WITH THE GENERAL REQUIREMENTS OF THE LOCAL COUNCIL.

NAME: Michael J. McFeeters

SIGNATURE:

CAPACITY: Director

DATE:

