

LIGHTSOURCE DEVELOPMENT SERVICES

WEST WYALONG SOLAR FARM

CIVIL WORKS

DRAWING LIST

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18-583-C080	OVERALL PROPOSED STORMWATER CATCHMENT PLAN



LOCALITY PLAN

N.T.S

		Bar Scales	Key Plan	Client <div>lightsourcebp</div>	Scales	Drawn	DM	Project WEST WYALONG SOLAR FARM	Civil Engineers and Project Managers <div>at&l</div> <div>Level 7, 153 Walker Street North Sydney NSW 2060 ABN 96 130 882 405 Tel: 02 9439 1777 Fax: 02 9923 1055 www.atl.net.au info@atl.net.au</div>			
						Designed	DM					
					Grid	MGA	Checked				AT	
					Height Datum	AHD	Approved					
					THIS DRAWING CANNOT BE COPIED OR REPRODUCED IN ANY FORM OR USED FOR ANY OTHER PURPOSE OTHER THAN THAT ORIGINALLY INTENDED WITHOUT THE WRITTEN PERMISSION OF AT&L			Title COVER SHEET AND LOCALITY PLAN		Status <div>FOR APPROVAL</div> <div>NOT TO BE USED FOR CONSTRUCTION</div>		A1
P2	ISSUED FOR DEVELOPMENT APPLICATION									09-01-19	Project - Drawing No. 18-583-C000	
P1	ISSUED FOR DEVELOPMENT APPLICATION	05-12-18										
Issue	Description	Date										

100mm on Original

Date Plotted: 9 Jan 2019 - 04:39PM File Name: F:\18-583 West Wyalong Solar Farm\6.0 Drgs\Civil\Final\18-583-C000.dwg

SURVEY NOTES

THE EXISTING SITE CONDITIONS SHOWN ON THE FOLLOWING DRAWINGS HAVE BEEN INVESTIGATED BY T.J. HINCHCLIFFE & ASSOCIATES PTY LTD. BEING REGISTERED SURVEYORS. THE INFORMATION IS SHOWN TO PROVIDE A BASIS FOR DESIGN. AT&L DOES NOT GUARANTEE THE ACCURACY OR COMPLETENESS OF THE SURVEY BASE OR ITS SUITABILITY AS A BASIS FOR CONSTRUCTION DRAWINGS.

SHOULD DISCREPANCIES BE ENCOUNTERED DURING CONSTRUCTION BETWEEN THE SURVEY DATA AND ACTUAL FIELD DATA, CONTACT AT & L.

THE FOLLOWING NOTES HAVE BEEN TAKEN DIRECTLY FROM THE ORIGINAL SURVEY DOCUMENTS:

- 1. ALL BENCHMARKS ARE STAR PICKETS NEAR FENCE LINES DRIVEN INTO THE GROUND IN A SHALLOW DEPRESSION.
- 2. THIS PLAN IS DRAWN TO NATURAL SCALE.
- 3. CO-ORDINATES OF POINTS IN THE DIGITAL VERSION OF THIS PLAN ARE NOT M.G.A. CO-ORDINATES.
- 4. PLEASE CONTACT T.J. HINCHCLIFFE & ASSOCIATES IF YOU REQUIRE SHIFTS, SWINGS OR SCALE FACTORS TO ACHIEVE M.G.A. CO-ORDINATES
- 5. THIS DETAIL SURVEY IS NOT A SURVEY AS DEFINED BY THE SURVEYING AND SPATIAL INFORMATION ACT, 2002 IF ANY CONSTRUCTION OR DESIGN WORK WHICH RELIES ON CRITICAL SETBACKS FROM THE STREET OR BOUNDARIES IS PLANNED WE RECOMMEND THAT SUCH A SURVEY BE CARRIED OUT TO MORE ACCURATELY DEFINE THE BOUNDARIES AND ANY ENCROACHMENTS BY OR UPON THE LAND. THE BOUNDARIES SHOWN HAVE NOT BEEN MARKED ON THE GROUND & HAVE BEEN DETERMINED BY BOTH PLAN DIMENSIONS & FIELD MEASUREMENT SERVICES SHOWN ARE THOSE THAT WERE VISIBLE AT THE TIME OF SURVEY. SERVICE LOCATIONS SHOULD BE INVESTIGATED WITH THE RELEVANT SERVICE AUTHORITY BEFORE THE COMMENCEMENT OF ANY EARTHWORKS OR CONSTRUCTION

EXISTING UNDERGROUND SERVICES NOTES

THE LOCATIONS OF UNDERGROUND SERVICES SHOWN IN THIS SET OF DRAWINGS HAVE BEEN PLOTTED FROM SURVEY INFORMATION AND SERVICE AUTHORITY INFORMATION. THE SERVICE INFORMATION HAS BEEN PREPARED ONLY TO SHOW THE APPROXIMATE POSITIONS OF ANY KNOWN SERVICES AND MAY NOT BE AS CONSTRUCTED OR ACCURATE.

AT & L CAN NOT GUARANTEE THAT THE SERVICES INFORMATION SHOWN ON THESE DRAWINGS ACCURATELY INDICATES THE PRESENCE OR ABSENCE OF SERVICES OR THEIR LOCATION AND WILL ACCEPT NO LIABILITY FOR INACCURACIES IN THE SERVICES INFORMATION SHOWN FROM ANY CAUSE WHATSOEVER.

CONTRACTORS SHALL TAKE DUE CARE WHEN EXCAVATING ONSITE INCLUDING HAND EXCAVATION WHERE NECESSARY.

CONTRACTORS ARE TO CONTACT THE RELEVANT SERVICE AUTHORITY PRIOR TO COMMENCEMENT OF EXCAVATION WORKS.

CONTRACTORS ARE TO UNDERTAKE A SERVICES SEARCH, PRIOR TO COMMENCEMENT OF WORKS ON SITE. SEARCH RESULTS ARE TO BE KEPT ON SITE AT ALL TIMES.

STORMWATER DRAINAGE NOTES

- 1. STORMWATER DESIGN CRITERIA:
(A) AVERAGE RECURRENCE INTERVAL:
1:100 YEARS ROOFED AREAS TO SURCHARGE PIT
1:20 YEARS EXTERNAL PAVEMENTS
(B) RAINFALL INTENSITIES:
TIME OF CONCENTRATION: 5 MINUTES
1:100 YEARS= 229 mm/hr
1:20 YEARS= 179 mm/hr
(C) RUNOFF COEFFICIENTS:
ROOF AREAS: C100 =1.0
EXTERNAL PAVEMENTS: C20 =1.0
- 2. PIPES 300 DIA. AND LARGER TO BE REINFORCED CONCRETE CLASS '3' APPROVED SPIGOT AND SOCKET WITH RUBBER RING JOINTS. U.N.O.
- 3. PIPES UP TO 300 DIA SHALL BE SEWER GRADE uPVC WITH SOLVENT WELDED JOINTS
- 4. EQUIVALENT STRENGTH VCP OR FRC PIPES MAY BE USED.
- 5. ALL STORMWATER DRAINAGE LINES UNDER PROPOSED BUILDING SLABS TO BE uPVC PRESSURE PIPE GRADE 6. ENSURE ALL VERTICALS AND DOWNPIPPES ARE uPVC PRESSURE PIPE, GRADE 6 FOR A MIN OF 3.0m IN HEIGHT.
- 6. PIPES TO BE INSTALLED TO TYPE HS3 (ROAD) HS2 (LOTS) SUPPORT IN ACCORDANCE WITH AS 3723 (2007) IN ALL CASES BACKFILL TRENCH WITH SAND TO 300mm ABOVE PIPE, WHERE PIPE IS UNDER PAVEMENTS BACKFILL REMAINDER OF TRENCH TO UNDERSIDE OF PAVEMENT WITH SAND OR APPROVED GRANULAR MATERIAL COMPACTED IN 150mm LAYERS TO MINIMUM 98% STANDARD MAXIMUM DRY DENSITY IN ACCORDANCE WITH AS 1289 5.2.1. (OR A DENSITY INDEX OF NOT LESS THAN 75)
- 7. ALL INTERNAL WORKS WITHIN PROPERTY BOUNDARIES ARE TO COMPLY WITH THE REQUIREMENTS OF AS 3500 3.1 (2006) AND AS/NZS 3500 3.2 (2010).
- 8. PRECAST PITS MAY BE USED EXTERNAL TO THE BUILDING SUBJECT TO APPROVAL BY AT & L.
- 9. ENLARGERS, CONNECTIONS AND JUNCTIONS TO BE PREFABRICATED FITTINGS WHERE PIPES ARE LESS THAN 300 DIA.
- 10. WHERE SUBSOIL DRAINS PASS UNDER FLOOR SLABS AND VEHICULAR PAVEMENTS, UNSLOTTED uPVC SEWER GRADE PIPE IS TO BE USED.
- 11. CARE IS TO BE TAKEN WITH LEVELS OF STORMWATER LINES. GRADES SHOWN ARE NOT TO BE REDUCED WITHOUT APPROVAL.
- 12. GRATES AND COVERS SHALL CONFORM TO AS 3996.
- 13. ALL INTERNAL PIT DIMENSIONS TO CONFORM TO AS3500.3 TABLE 7.5.2.1
- 14. AT ALL TIMES DURING CONSTRUCTION OF STORMWATER PITS, ADEQUATE SAFETY PROCEDURES SHALL BE TAKEN TO ENSURE AGAINST THE POSSIBILITY OF PERSONNEL FALLING DOWN PITS.
- 15. ALL EXISTING STORMWATER DRAINAGE LINES AND PITS THAT ARE TO REMAIN ARE TO BE INSPECTED AND CLEANED, DURING THIS PROCESS. ANY PART OF THE STORMWATER DRAINAGE SYSTEM THAT WARRANTS REPAIR SHALL BE REPORTED TO THE SUPERINTENDENT/ENGINEER FOR FURTHER DIRECTIONS.

SITWORKS NOTES

- 1. ORIGIN OF LEVELS:- REFER SURVEY NOTES.
- 2. CONTRACTOR MUST VERIFY ALL DIMENSIONS AND EXISTING LEVELS ON SITE PRIOR TO COMMENCEMENT OF WORK. ANY DISCREPANCIES TO BE REPORTED TO AT & L.
- 3. MAKE SMOOTH CONNECTION WITH EXISTING WORKS.
- 4. ALL TRENCH BACKFILL MATERIAL SHALL BE COMPACTED TO THE SAME DENSITY AS THE ADJACENT MATERIAL.
- 5. ALL SERVICE TRENCHES UNDER VEHICULAR PAVEMENTS SHALL BE BACKFILLED WITH SAND TO 300mm ABOVE PIPE, WHERE PIPE IS UNDER PAVEMENTS BACKFILL REMAINDER OF TRENCH TO UNDERSIDE OF PAVEMENT WITH SAND OR APPROVED GRANULAR MATERIAL COMPACTED IN 150mm LAYERS TO MINIMUM 98% MODIFIED MAXIMUM DRY DENSITY IN ACCORDANCE WITH AS 1289 5.2.1. (OR A DENSITY INDEX OF NOT LESS THAN 75)
- 6. PROVIDE 10mm WIDE EXPANSION JOINTS BETWEEN BUILDINGS AND ALL CONCRETE OR UNIT PAVEMENTS.
- 7. ASPHALTIC CONCRETE SHALL CONFORM TO RMS. SPECIFICATION R116.
- 8. ALL BASECOURSE MATERIAL SHALL BE IGNEOUS ROCK QUARRIED MATERIAL TO COMPLY WITH RMS. FORM 3051 (UNBOUND), RMS. FORM 3052 (BOUND) COMPACTED TO MINIMUM 98% MODIFIED DENSITY IN ACCORDANCE WITH AS 1289 5.2.1. FREQUENCY OF COMPACTION TESTING SHALL NOT BE LESS THAN 1 TEST PER 50m² OF BASECOURSE MATERIAL PLACED.
- 9. ALL SUB-BASE COURSE MATERIAL SHALL BE IGNEOUS ROCK QUARRIED MATERIAL TO COMPLY WITH RMS. FORM 3051, 3051.1 AND COMPACTED TO MINIMUM 95% MODIFIED DENSITY IN ACCORDANCE WITH A.S 1289 5.2.1. FREQUENCY OF COMPACTION TESTING SHALL NOT BE LESS THAN 1 TEST PER 50m² OF SUB-BASE COURSE MATERIAL PLACED.
- 10. AS AN ALTERNATIVE TO THE USE OF IGNEOUS ROCK AS A SUB-BASE MATERIAL IN (9) A CERTIFIED RECYCLED CONCRETE MATERIAL COMPLYING WITH RMS. FORM 3051 AND 3051.1 WILL BE CONSIDERED. SUBJECT TO MATERIAL SAMPLES AND APPROPRIATE CERTIFICATIONS BEING PROVIDED TO THE SATISFACTION OF AT & L.
- 11. SHOULD THE CONTRACTOR WISH TO USE A RECYCLED PRODUCT THIS SHALL BE CLEARLY INDICATED IN THEIR TENDER AND THE PRICE DIFFERENCE BETWEEN AN IGNEOUS PRODUCT AND A RECYCLED PRODUCT SHALL BE CLEARLY INDICATED.
- 12. WHERE NOTED ON THE DRAWINGS THAT WORKS ARE TO BE CARRIED BY OTHERS, (eg. ADJUSTMENT OF SERVICES), THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CO-ORDINATION OF THESE WORKS.

BULK EARTHWORKS NOTES

- 1. ORIGIN OF LEVELS: REFER SURVEY NOTES
- 2. STRIP ALL TOPSOIL/ORGANIC MATERIAL FROM CONSTRUCTION AREA AND REMOVE FROM SITE OR STOCK PILE AS DIRECTED BY SUPERINTENDENT.
- 3. EXCAVATED MATERIAL TO BE USED AS STRUCTURAL FILL PROVIDED THE PLACEMENT MOISTURE CONTENT OF THE MATERIAL IS +/- 2% OF THE OPTIMUM MOISTURE CONTENT.
- 4. COMPACT FILL AREAS AND SUBGRADE TO NOT LESS THAN:

LOCATION	STANDARD DRY DENSITY (AS 1289 E 5.1.1)
UNDER BUILDING SLABS ON GROUND	98%
UNDER ROADS AND CARPARKS	98%
LANDSCAPED AREAS UNLESS NOTED OTHERWISE	98%
- 5. FOR NON COHESIVE MATERIAL, COMPACT TO 75% DENSITY INDEX.
- 6. BEFORE PLACING FILL, PROOF ROLL EXPOSED SUBGRADE WITH AN 8 TONNE (MIN) DEADWEIGHT SMOOTH DRUM VIBRATORY ROLLER TO DETECT THEN REMOVE SOFT SPOTS (AREAS WITH MORE THAN 2mm MOVEMENT UNDER ROLLER).
- 7. FREQUENCY OF COMPACTION TESTING SHALL BE NOT LESS THAN :-
(A) 1 TEST PER 200m² OF FILL PLACED PER 300 LAYER OF FILL.
(B) 3 TESTS PER VISIT
(C) 1 TEST PER 1000m² OF EXPOSED SUBGRADE
TESTING SHALL BE "LEVEL 1" TESTING IN ACCORDANCE WITH AS 3798 (1996).
- 8. FILLING TO BE PLACED AND COMPACTED IN MAXIMUM 150mm LAYERS
- 9. NO FILLING SHALL TAKE PLACE TO EXPOSE SUBGRADE UNTIL THE AREA HAS BEEN PROOF ROLLED IN THE PRESENCE OF AT & L AND APPROVAL GIVEN IN WRITING THAT FILLING CAN PROCEED.

EROSION AND SEDIMENT CONTROL NOTES

GENERAL INSTRUCTIONS

- 1. THE SITE SUPERINTENDENT/ENGINEER WILL ENSURE THAT ALL SOIL AND WATER MANAGEMENT WORKS ARE LOCATED AS DOCUMENTED.
- 2. ALL WORK SHALL BE GENERALLY CARRIED OUT IN ACCORDANCE WITH
a. LOCAL AUTHORITY REQUIREMENTS
b. EPA REQUIREMENTS
c. NSW DEPARTMENT OF HOUSING MANUAL "MANAGING URBAN STORMWATER, SOILS AND CONSTRUCTION", 4th EDITION, MARCH 2004.
- 3. MAINTAIN THE EROSION CONTROL DEVICES TO THE SATISFACTION OF THE SUPERINTENDENT AND THE LOCAL AUTHORITY.
- 4. WHEN STORMWATER PITS ARE CONSTRUCTED, PREVENT SITE RUNOFF ENTERING UNLESS SEDIMENT FENCES ARE ERECTED AROUND PITS.
- 5. CONTRACTOR IS TO ENSURE ALL EROSION & SEDIMENT CONTROL DEVICES ARE MAINTAINED IN GOOD WORKING ORDER AND OPERATE EFFECTIVELY. REPAIRS AND OR MAINTENANCE SHALL BE UNDERTAKEN AS REQUIRED, PARTICULARLY FOLLOWING STORM EVENTS.

LAND DISTURBANCE

- 6. WHERE PRACTICAL, THE SOIL EROSION HAZARD ON THE SITE WILL BE KEPT AS LOW AS POSSIBLE. TO THIS END, WORKS SHOULD BE UNDERTAKEN IN THE FOLLOWING SEQUENCE:
(A) INSTALL A WIND FENCE ALONG THE BOUNDARIES AS SHOWN ON PLAN. REFER DETAIL.
(B) INSTALL A SEDIMENT FENCE ALONG THE BOUNDARIES AS SHOWN ON PLAN. REFER DETAIL.
(C) CONSTRUCT STABILISED CONSTRUCTION ENTRANCE TO LOCATION AS DETERMINED BY SUPERINTENDENT/ENGINEER. REFER DETAIL.
(D) INSTALL SEDIMENT BASIN AS SHOWN ON PLAN
(E) INSTALL SEDIMENT TRAPS AS SHOWN ON PLAN.
(F) UNDERTAKE SITE DEVELOPMENT WORKS IN ACCORDANCE WITH THE ENGINEERING PLANS. WHERE POSSIBLE, PHASE DEVELOPMENT SO THAT LAND DISTURBANCE IS CONFINED TO AREAS OF WORKABLE SIZE.

EROSION CONTROL

- 7. DURING WINDY WEATHER, LARGE, UNPROTECTED AREAS WILL BE KEPT MOIST (NOT WET) BY SPRINKLING WITH WATER TO KEEP DUST UNDER CONTROL.
- 8. FINAL SITE LANDSCAPING WILL BE UNDERTAKEN AS SOON AS POSSIBLE AND WITHIN 20 WORKING DAYS FROM COMPLETION OF CONSTRUCTION ACTIVITIES.

SEDIMENT CONTROL

- 9. STOCKPILES WILL NOT BE LOCATED WITHIN 2 METRES OF HAZARD AREAS, INCLUDING LIKELY AREAS OF CONCENTRATED OR HIGH VELOCITY FLOWS SUCH AS WATERWAYS. WHERE THEY ARE BETWEEN 2 AND 5 METRES FROM SUCH AREAS, SPECIAL SEDIMENT CONTROL MEASURES SHOULD BE TAKEN TO MINIMISE POSSIBLE POLLUTION TO DOWNSLOPE WATERS, E.G. THROUGH INSTALLATION OF SEDIMENT FENCING.
- 10. ANY SAND USED IN THE CONCRETE CURING PROCESS (SPREAD OVER THE SURFACE) WILL BE REMOVED AS SOON AS POSSIBLE AND WITHIN 10 WORKING DAYS FROM PLACEMENT.
- 11. WATER WILL BE PREVENTED FROM ENTERING THE PERMANENT DRAINAGE SYSTEM UNLESS IT IS RELATIVELY SEDIMENT FREE, I.E. THE CATCHMENT AREA HAS BEEN PERMANENTLY LANDSCAPED AND/OR ANY LIKELY SEDIMENT HAS BEEN FILTERED THROUGH AN APPROVED STRUCTURE.
- 12. TEMPORARY SOIL AND WATER MANAGEMENT STRUCTURES WILL BE REMOVED ONLY AFTER THE LANDS THEY ARE PROTECTING ARE REHABILITATED.

OTHER MATTERS

- 13. ACCEPTABLE RECEPTORS WILL BE PROVIDED FOR CONCRETE AND MORTAR SLURRIES, PAINTS, ACID WASHINGS, LIGHT-WEIGHT WASTE MATERIALS AND LITTER.
- 14. ANY EXISTING TREES WHICH FORM PART OF THE FINAL LANDSCAPING PLAN WILL BE PROTECTED FROM CONSTRUCTION ACTIVITIES BY:
(A) PROTECTING THEM WITH BARRIER FENCING OR SIMILAR MATERIALS INSTALLED OUTSIDE THE DRIP LINE
(B) ENSURING THAT NOTHING IS NAILED TO THEM
(C) PROHIBITING PAVING, GRADING, SEDIMENT WASH OR PLACING OF STOCKPILES WITHIN THE DRIP LINE EXCEPT UNDER THE FOLLOWING CONDITIONS.
(i) ENCROACHMENT ONLY OCCURS ON ONE SIDE AND NO CLOSER TO THE TRUNK THAN EITHER 15 METRES OR HALF THE DISTANCE BETWEEN THE OUTER EDGE OF THE DRIP LINE AND THE TRUNK, WHICH EVER IS THE GREATER
(ii) A DRAINAGE SYSTEM THAT ALLOWS AIR AND WATER TO CIRCULATE THROUGH THE ROOT ZONE (E.G. A GRAVEL BED) IS PLACED UNDER ALL FILL LAYERS OF MORE THAN 300 MILLIMETRES DEPTH
(iii) CARE IS TAKEN NOT TO CUT ROOTS UNNECESSARILY NOR TO COMPACT THE SOIL AROUND THEM.

WORKS LEGEND

EXISTING

- FENCE
- TREES
- EXISTING OVERLAND FLOW PATH
- EXISTING BOUNDARY

PROPOSED

- VEHICLE ACCESS TRACKS
- SOLTEC TRACKERS
- SECURITY FENCING
- STORMWATER DRAINAGE SWALE
- STORMWATER DRAINAGE CULVERT

P2	ISSUED FOR DEVELOPMENT APPLICATION	09-01-19
P1	ISSUED FOR DEVELOPMENT APPLICATION	05-12-18
Issue	Description	Date

Bar Scales

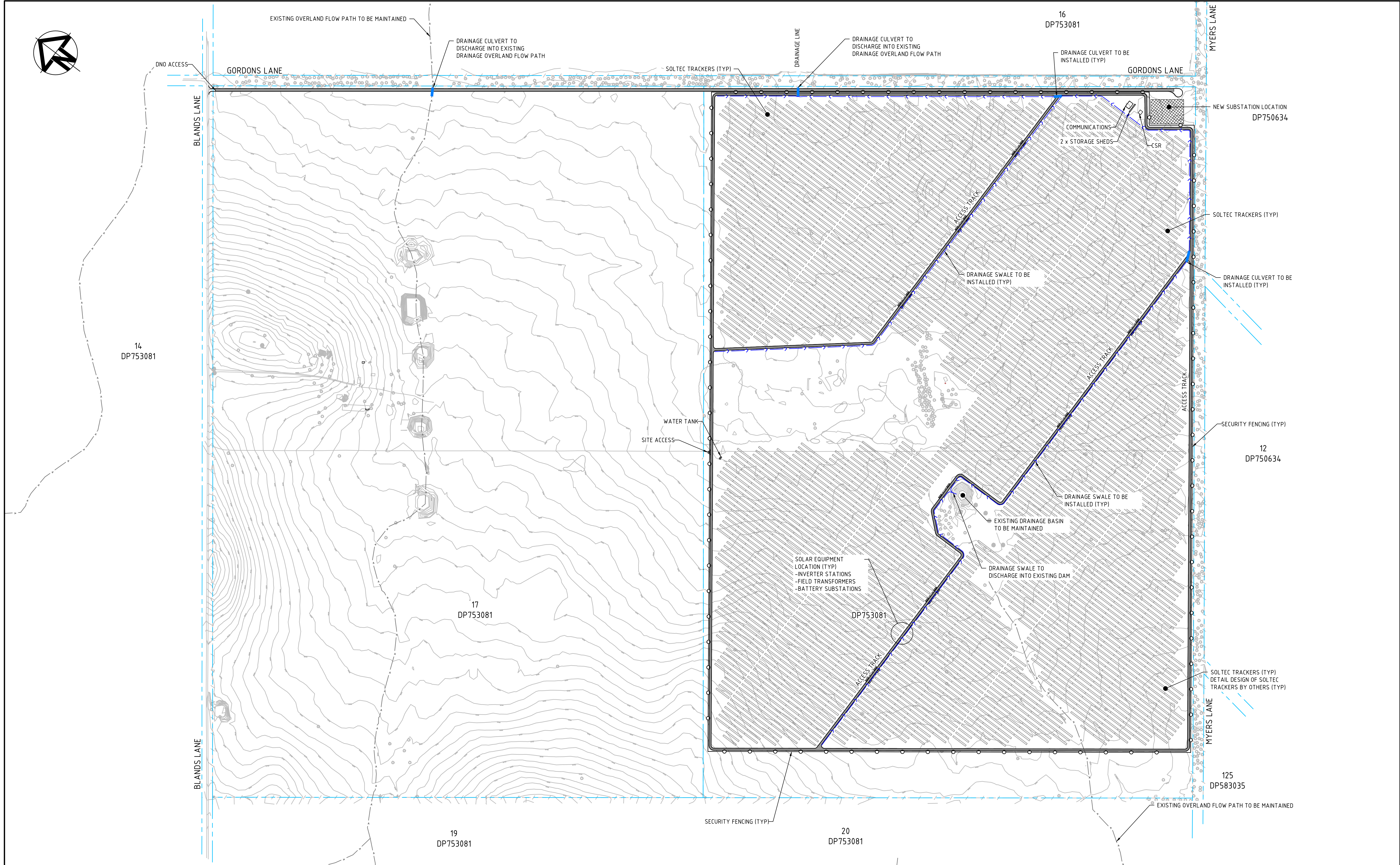
Key Plan

Client

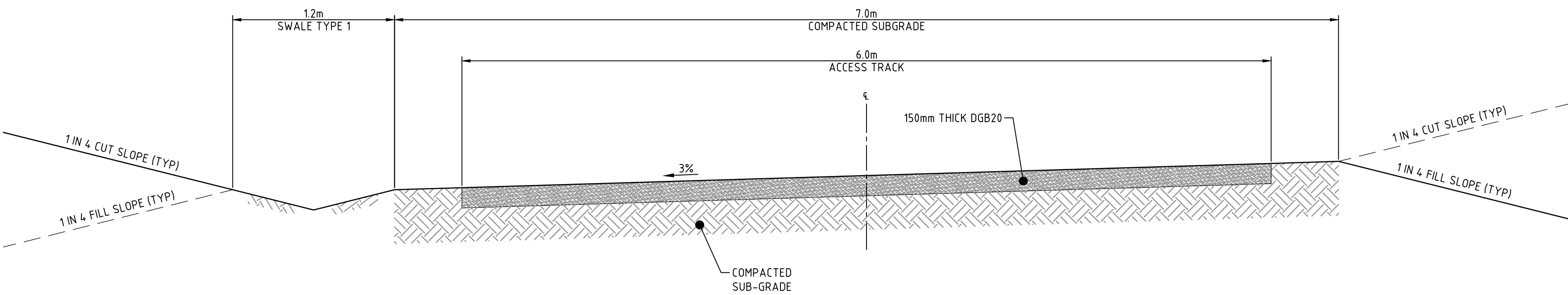
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Project
WEST WYALONG SOLAR FARM
Title
NOTES AND LEGENDS

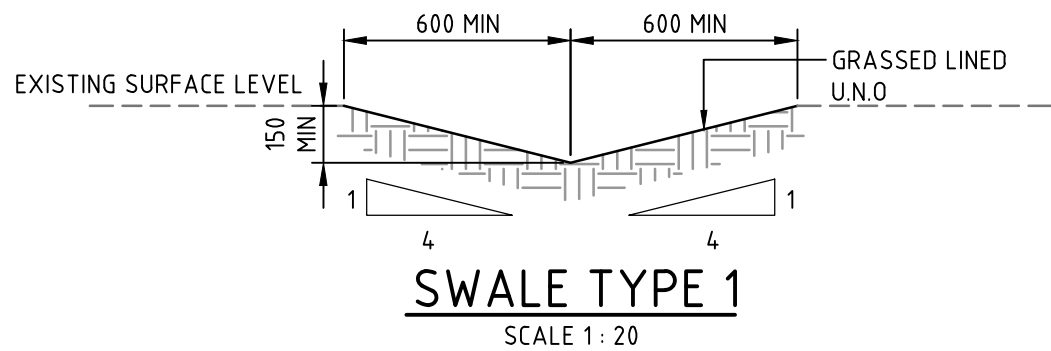
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18-583-C001		P2



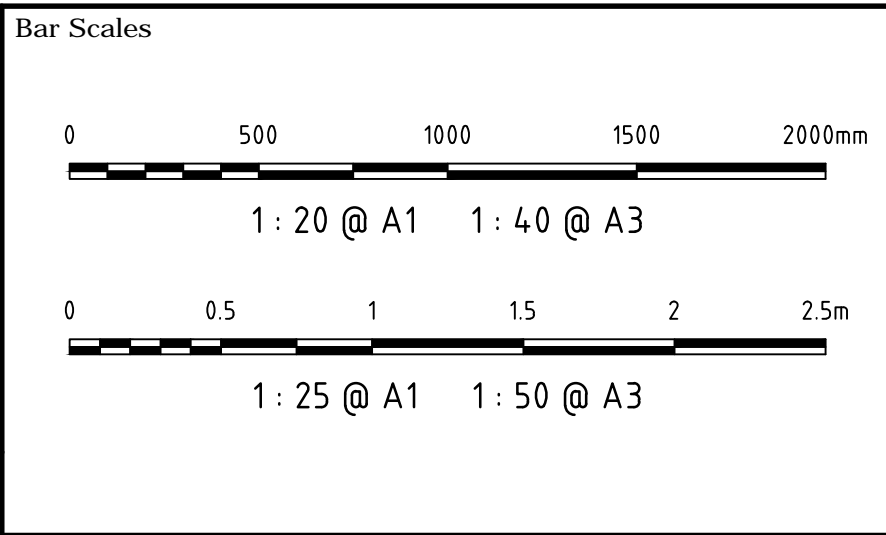
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TYPICAL SECTION - ACCESS TRACK
SCALE 1:25




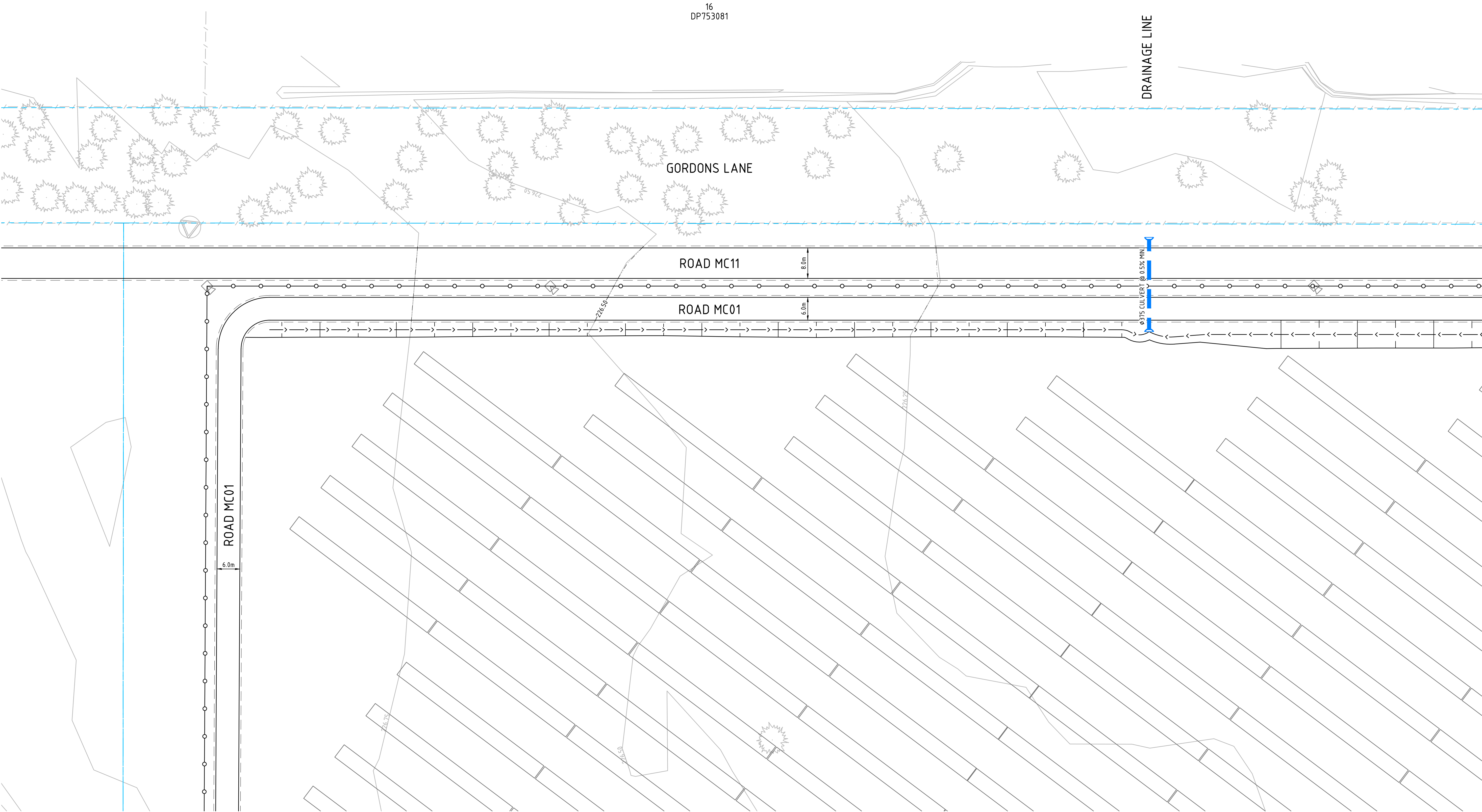
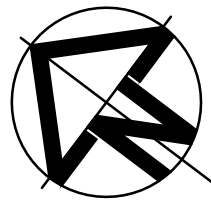
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P1	ISSUED FOR DEVELOPMENT APPLICATION	05-12-18
Issue	Description	Date



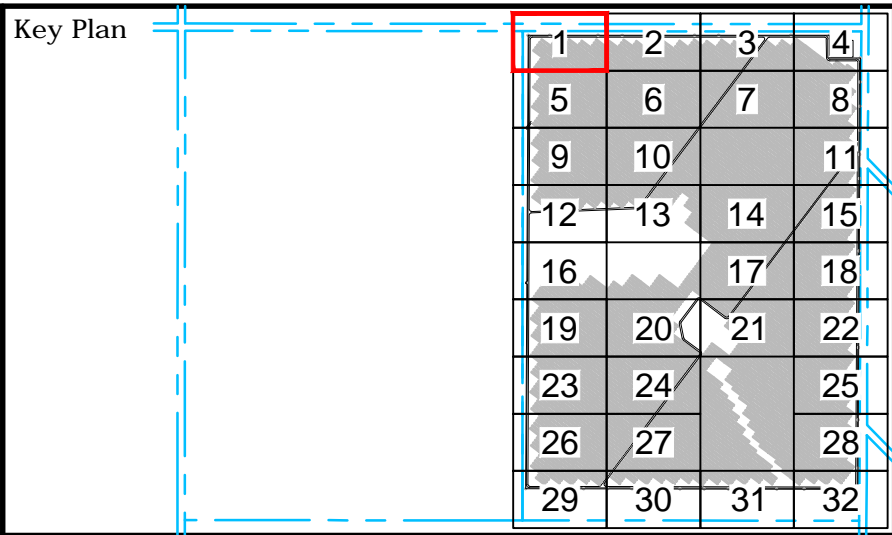
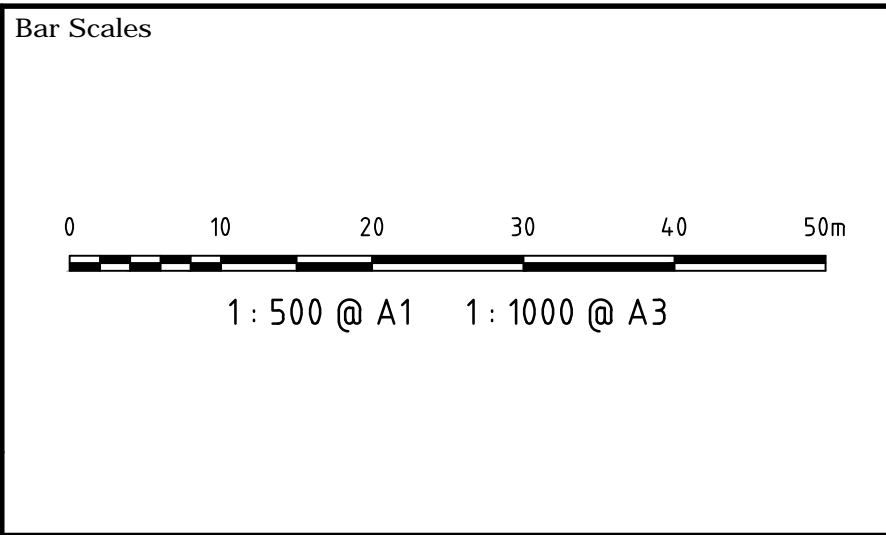
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Project	WEST WYALONG SOLAR FARM
Title	TYPICAL DETAILS

Civil Engineers and Project Managers		
 <div>Level 7, 153 Walker Street North Sydney NSW 2060 ABN 96 130 882 405 Tel: 02 9439 1777 Fax: 02 9923 1055 www.atl.net.au info@atl.net.au</div>		
Status	FOR APPROVAL	A1
NOT TO BE USED FOR CONSTRUCTION		
Project - Drawing No.	18-583-C005	Issue
		P2



P2	ISSUED FOR DEVELOPMENT APPLICATION	09-01-19
P1	ISSUED FOR DEVELOPMENT APPLICATION	05-12-18
Issue	Description	Date



Client

lightsource bp

Scales	1 : 500	Drawn	JB
		Designed	JB
Grid	MGA	Checked	AT
Height Datum	AHD	Approved	
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Project

WEST WYALONG SOLAR FARM

Title

SITEWORKS AND STORMWATER DRAINAGE PLAN SHEET 1

Civil Engineers and Project Managers

at&l

Level 7, 153 Walker Street
North Sydney NSW 2060
ABN 96 130 882 405
Tel: 02 9439 1777
Fax: 02 9923 1055
www.atl.net.au
info@atl.net.au

Status

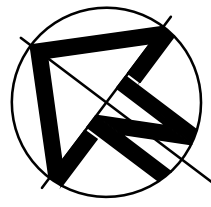
FOR APPROVAL
NOT TO BE USED FOR CONSTRUCTION

Project - Drawing No.

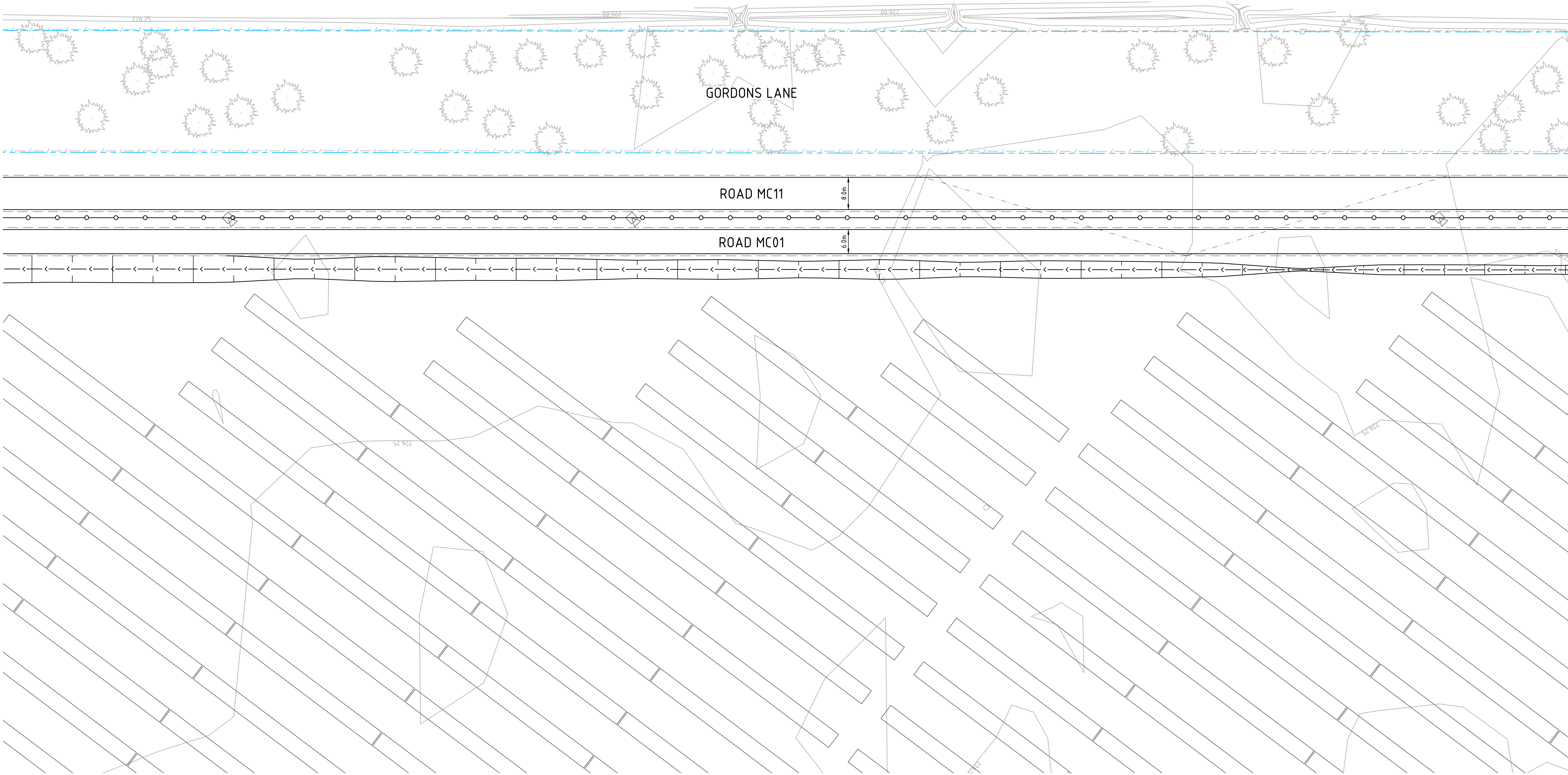
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Issue

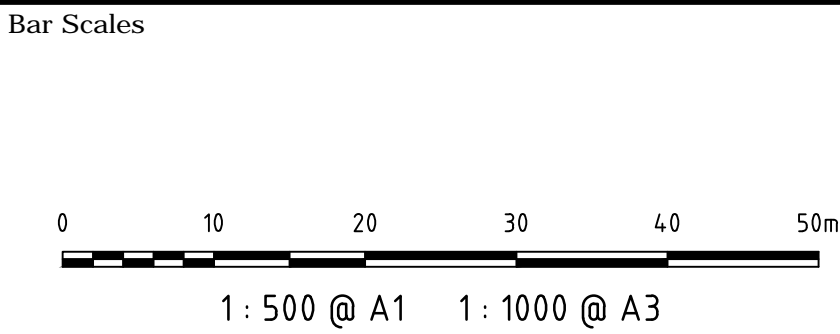
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16
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P2	ISSUED FOR DEVELOPMENT APPLICATION	09-01-19
P1	ISSUED FOR DEVELOPMENT APPLICATION	05-12-18
Issue	Description	Date



Key Plan	
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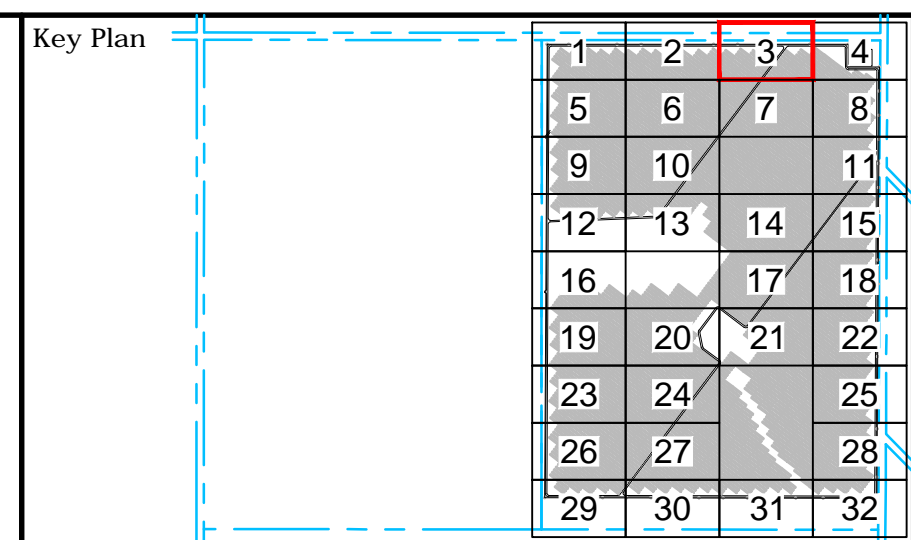
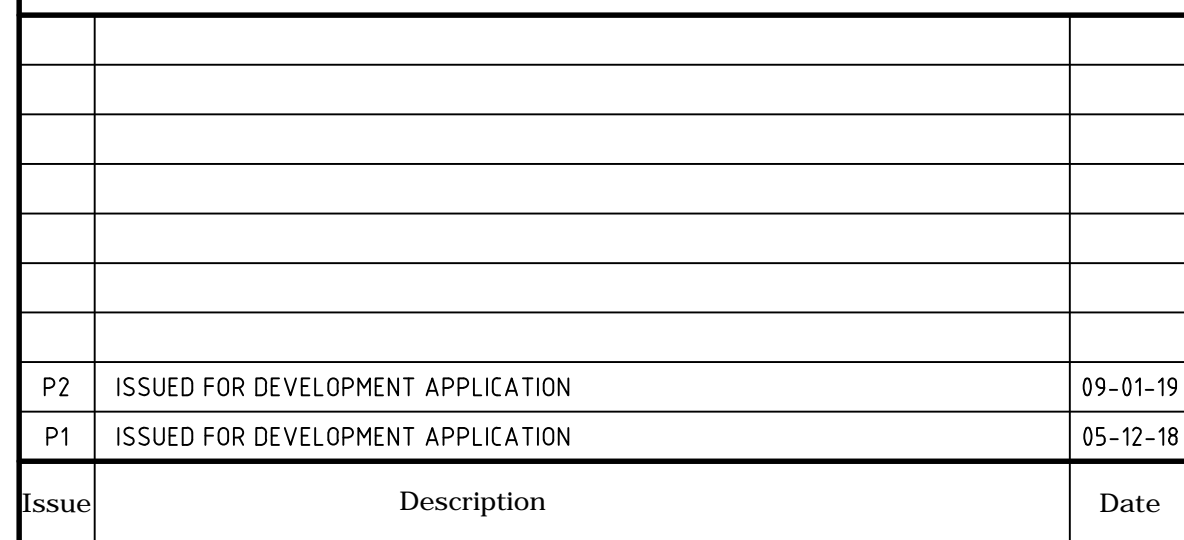
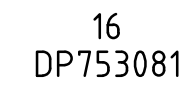
Client

lightsource bp

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Project	WEST WYALONG SOLAR FARM
Title	SITEWORKS AND STORMWATER DRAINAGE PLAN SHEET 2

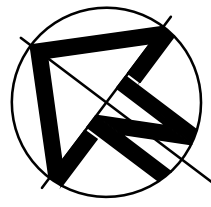
Civil Engineers and Project Managers	
Level 7, 153 Walker Street North Sydney NSW 2060 ABN 96 130 882 405 Tel: 02 9439 1777 Fax: 02 9923 1055 www.atl.net.au info@atl.net.au	
Status	FOR APPROVAL
NOT TO BE USED FOR CONSTRUCTION	
Project - Drawing No.	18-583-C012
Issue	P2



Scales	1 : 500	Drawn	JB
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Height Datum	AHD	Approved	
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Project	WEST WYALONG SOLAR FARM
Title	SITEWORKS AND STORMWATER DRAINAGE PLAN SHEET 3

Civil Engineers and Project Managers 		Level 7, 153 Walker Street North Sydney NSW 2060 ABN 96 130 882 405 Tel: 02 9439 1777 Fax: 02 9923 1055 www.atl.net.au info@atl.net.au
Status FOR APPROVAL NOT TO BE USED FOR CONSTRUCTION	A1	
Project - Drawing No. 18-583-C013	Issue P2	



16
DP753081

GORDONS LANE

ROAD MC11

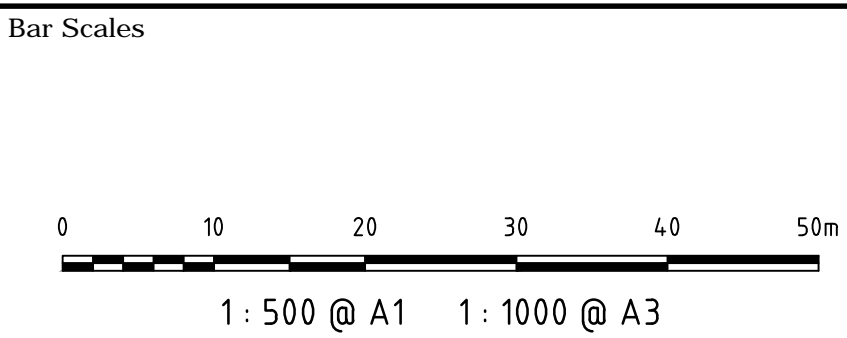
ROAD MC01

MYERS LANE

SUBSTATION SLAB
FFL 227.50

7
DP750634

P2	ISSUED FOR DEVELOPMENT APPLICATION	09-01-19
P1	ISSUED FOR DEVELOPMENT APPLICATION	05-12-18
Issue	Description	Date



Key Plan	<p>Grid coordinates: 1-32 horizontally, 5-29 vertically. Sheet 14 is highlighted in red.</p>
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Client

lightsource bp

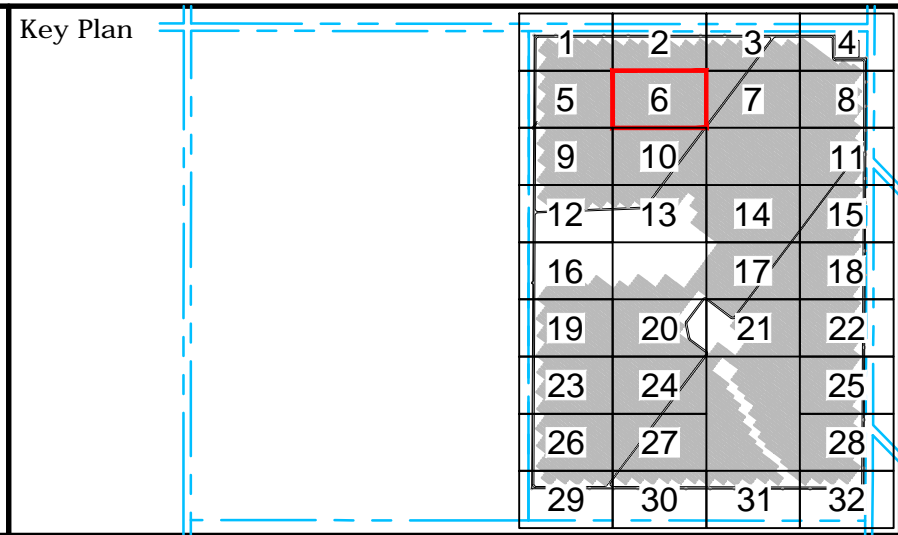
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Project	WEST WYALONG SOLAR FARM
Title	SITEWORKS AND STORMWATER DRAINAGE PLAN SHEET 4

Civil Engineers and Project Managers		
Level 7, 153 Walker Street North Sydney NSW 2060 ABN 96 130 882 405 Tel: 02 9439 1777 Fax: 02 9923 1055 www.atl.net.au info@atl.net.au		
Status	FOR APPROVAL NOT TO BE USED FOR CONSTRUCTION	A1
Project - Drawing No.	18-583-C014	Issue P2



P2	ISSUED FOR DEVELOPMENT APPLICATION	09-01-19
P1	ISSUED FOR DEVELOPMENT APPLICATION	05-12-18
Issue	Description	Date



Client

lightsource bp

Scales	1 : 500	Drawn	JB
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Grid	MGA	Checked	AT
Height Datum	AHD	Approved	
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Project

WEST WYALONG SOLAR FARM

Title

SITEWORKS AND STORMWATER DRAINAGE PLAN SHEET 6

Civil Engineers and Project Managers

at&l

Level 7, 153 Walker Street
North Sydney NSW 2060
ABN 96 130 882 405
Tel: 02 9439 1777
Fax: 02 9923 1055
www.atl.net.au
info@atl.net.au

Status

FOR APPROVAL
NOT TO BE USED FOR CONSTRUCTION

Project - Drawing No.

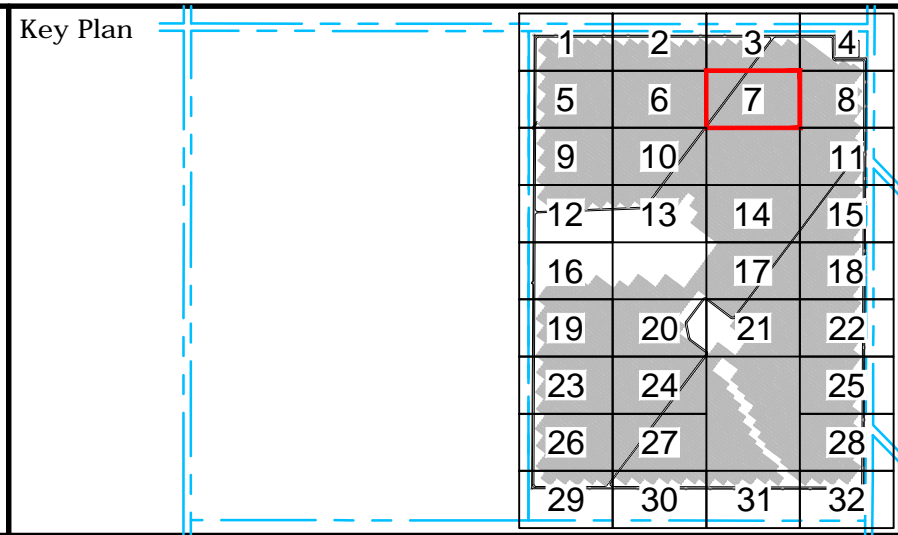
18-583-C016

Issue

P2



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P1	ISSUED FOR DEVELOPMENT APPLICATION	05-12-18
Issue	Description	Date



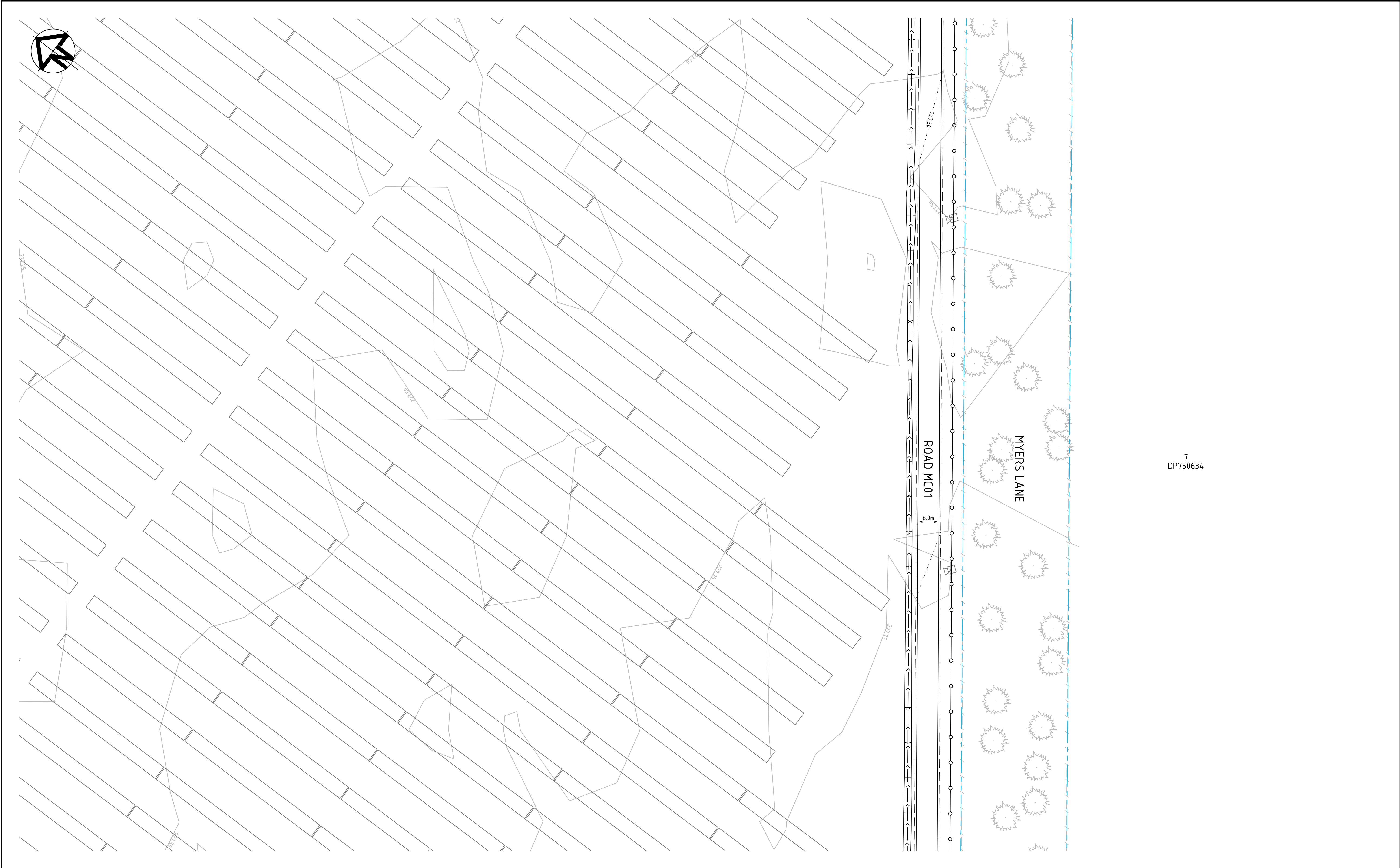
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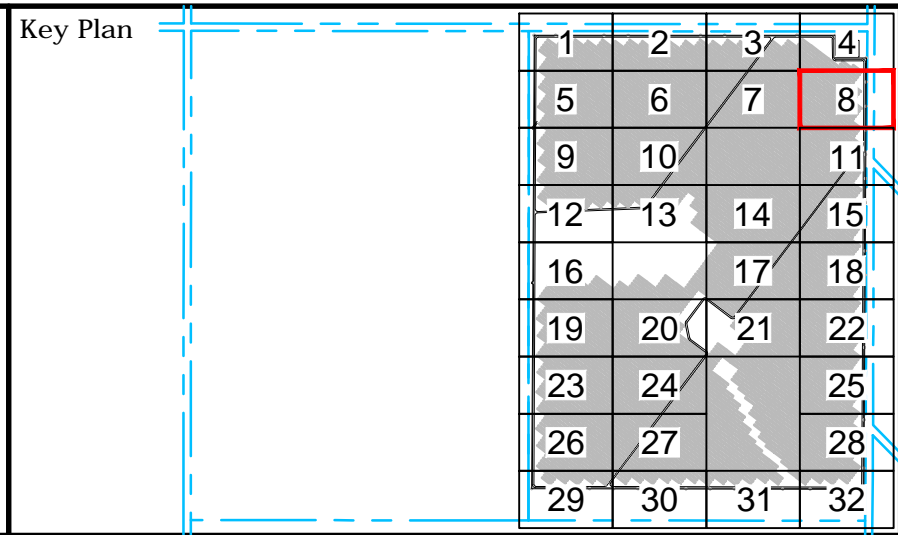
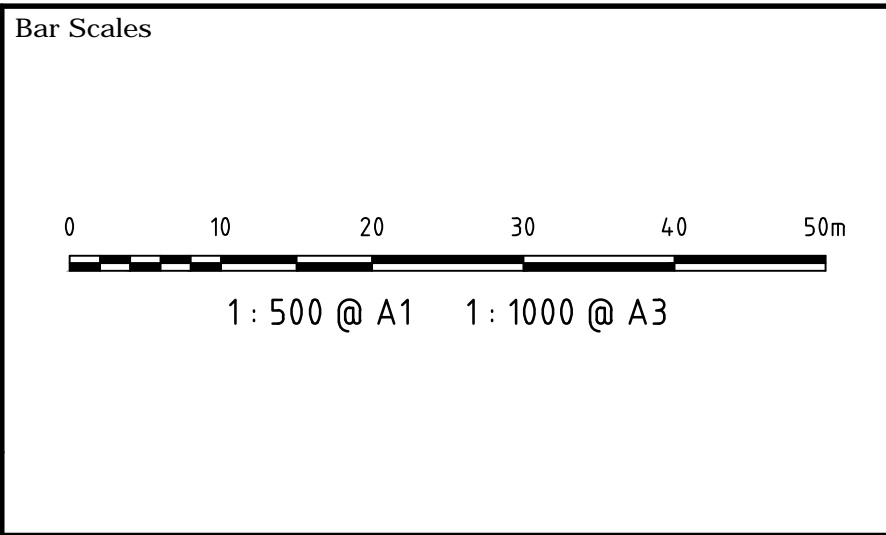
Project	WEST WYALONG SOLAR FARM
Title	SITEWORKS AND STORMWATER DRAINAGE PLAN SHEET 7

Civil Engineers and Project Managers	
at&l Level 7, 153 Walker Street North Sydney NSW 2060 ABN 96 130 882 405 Tel: 02 9439 1777 Fax: 02 9923 1055 www.atl.net.au info@atl.net.au	
Status	FOR APPROVAL
NOT TO BE USED FOR CONSTRUCTION	
Project - Drawing No.	18-583-C017
Issue	P2



7
DP750634

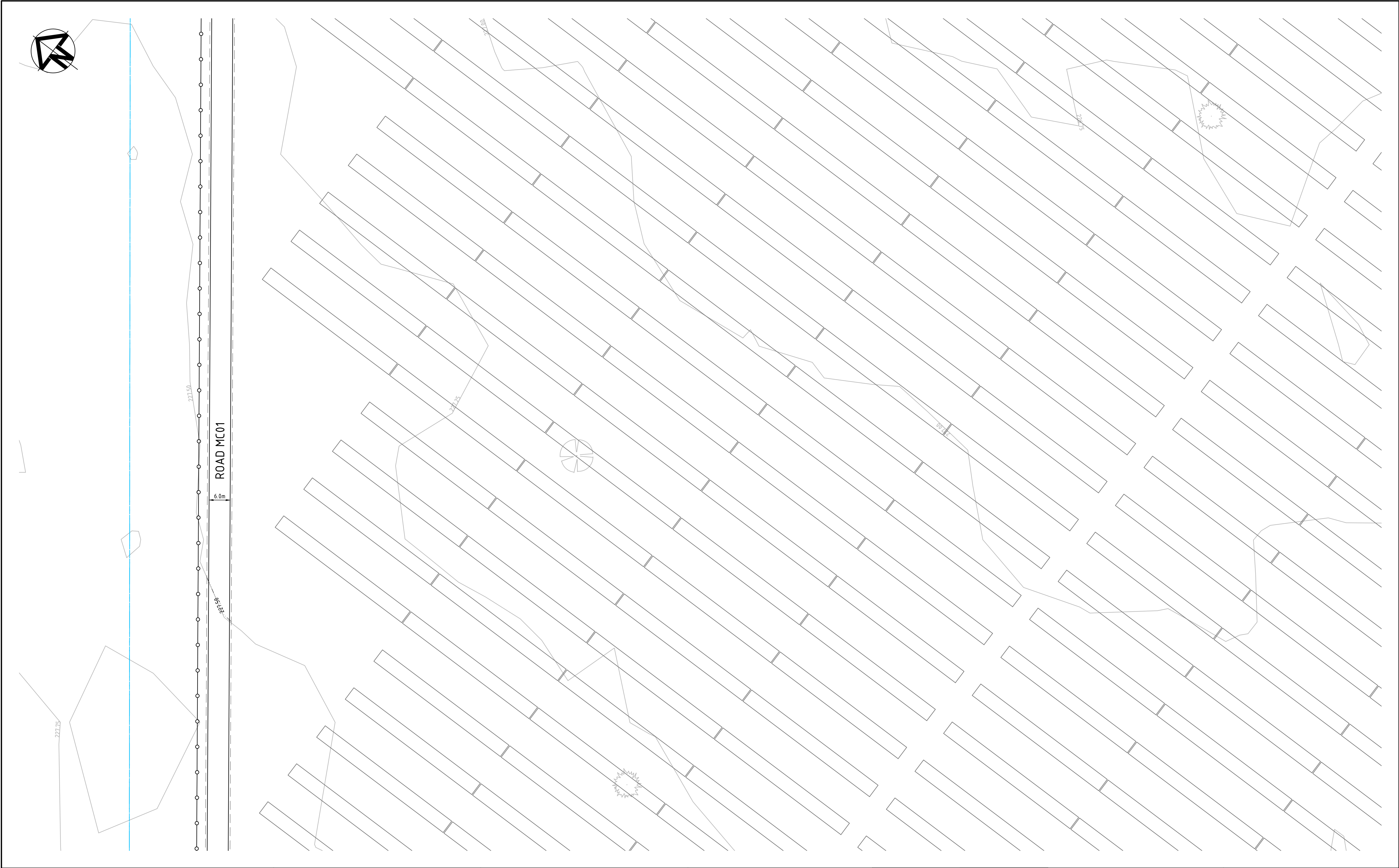
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P1	ISSUED FOR DEVELOPMENT APPLICATION	05-12-18
Issue	Description	Date



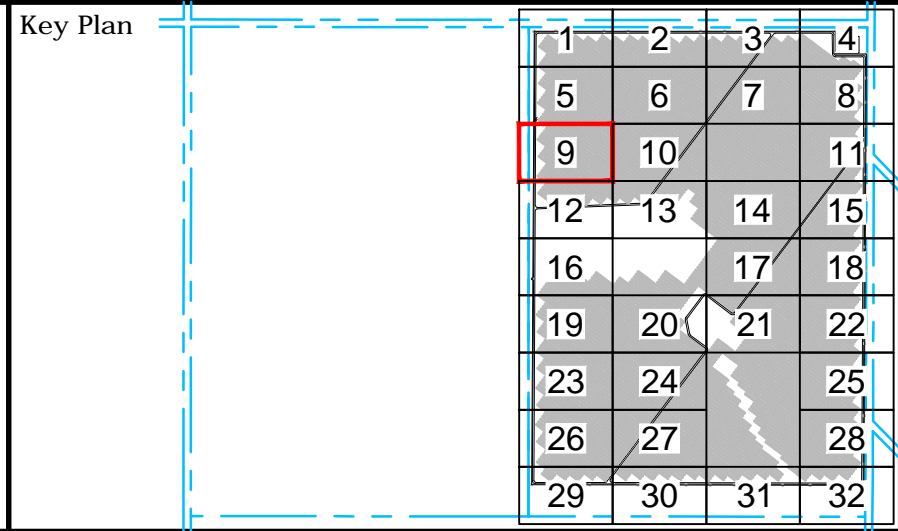
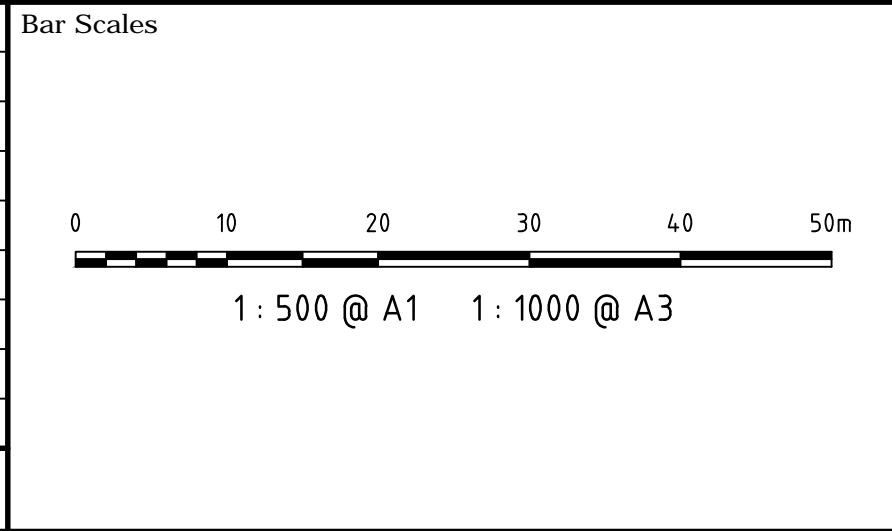
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Project	WEST WYALONG SOLAR FARM
Title	SITEWORKS AND STORMWATER DRAINAGE PLAN SHEET 8

Civil Engineers and Project Managers		
Level 7, 153 Walker Street North Sydney NSW 2060 ABN 96 130 882 405 Tel: 02 9439 1777 Fax: 02 9923 1055 www.ati.net.au info@ati.net.au		
Status	FOR APPROVAL NOT TO BE USED FOR CONSTRUCTION	A1
Project - Drawing No.	18-583-C018	Issue P2



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P1	ISSUED FOR DEVELOPMENT APPLICATION	05-12-18
Issue	Description	Date



Client

lightsource bp

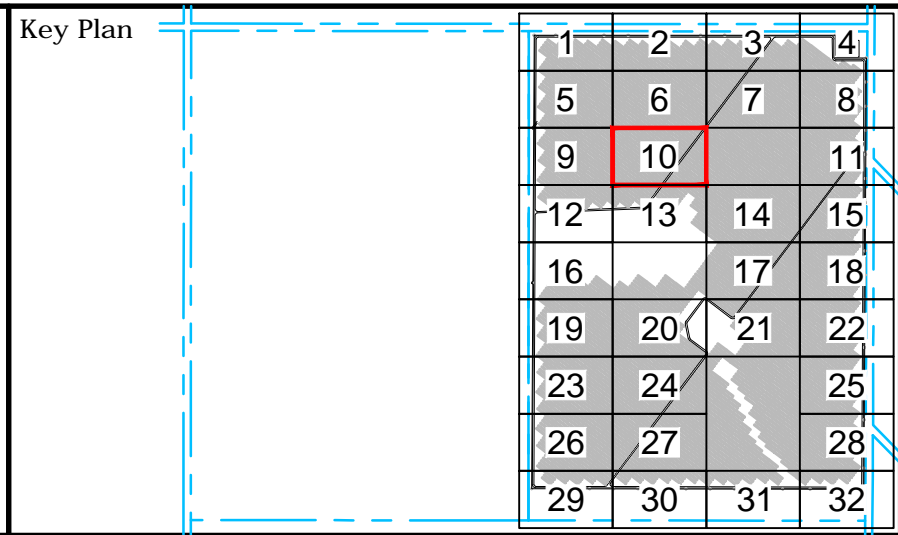
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Project	WEST WYALONG SOLAR FARM
Title	SITEWORKS AND STORMWATER DRAINAGE PLAN SHEET 9

Civil Engineers and Project Managers	
at&l	
Level 7, 153 Walker Street North Sydney NSW 2060 ABN 96 130 882 405 Tel: 02 9439 1777 Fax: 02 9923 1055 www.atl.net.au info@atl.net.au	
Status	FOR APPROVAL
NOT TO BE USED FOR CONSTRUCTION	
Project - Drawing No.	18-583-C019
Issue	P2



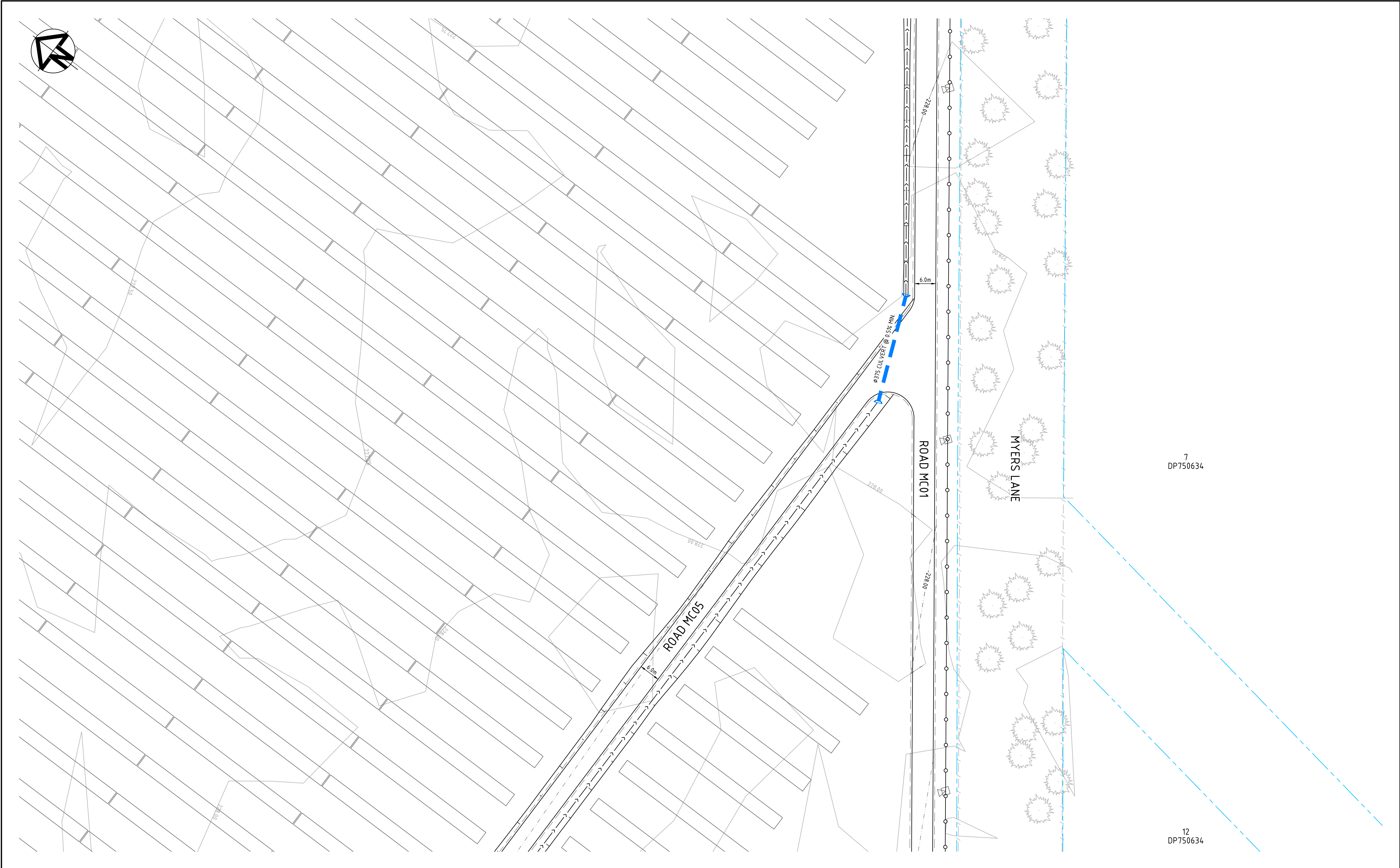
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P1	ISSUED FOR DEVELOPMENT APPLICATION	05-12-18
Issue	Description	Date



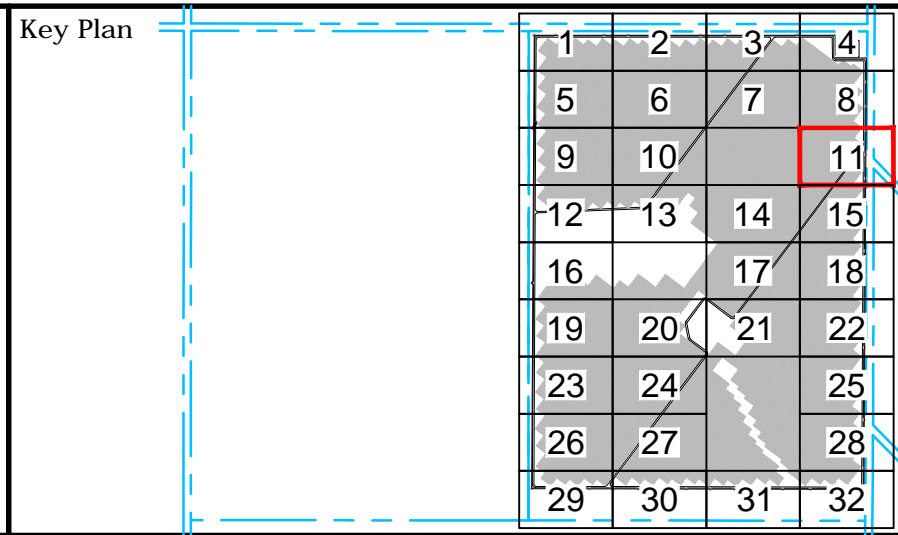
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Project	WEST WYALONG SOLAR FARM
Title	SITEWORKS AND STORMWATER DRAINAGE PLAN SHEET 10

Civil Engineers and Project Managers	
at&l	
Level 7, 153 Walker Street North Sydney NSW 2060 ABN 96 130 882 405 Tel: 02 9439 1777 Fax: 02 9923 1055 www.atl.net.au info@atl.net.au	
Status	FOR APPROVAL
NOT TO BE USED FOR CONSTRUCTION	
Project - Drawing No.	18-583-C020
Issue	P2



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P1	ISSUED FOR DEVELOPMENT APPLICATION	05-12-18
Issue	Description	Date



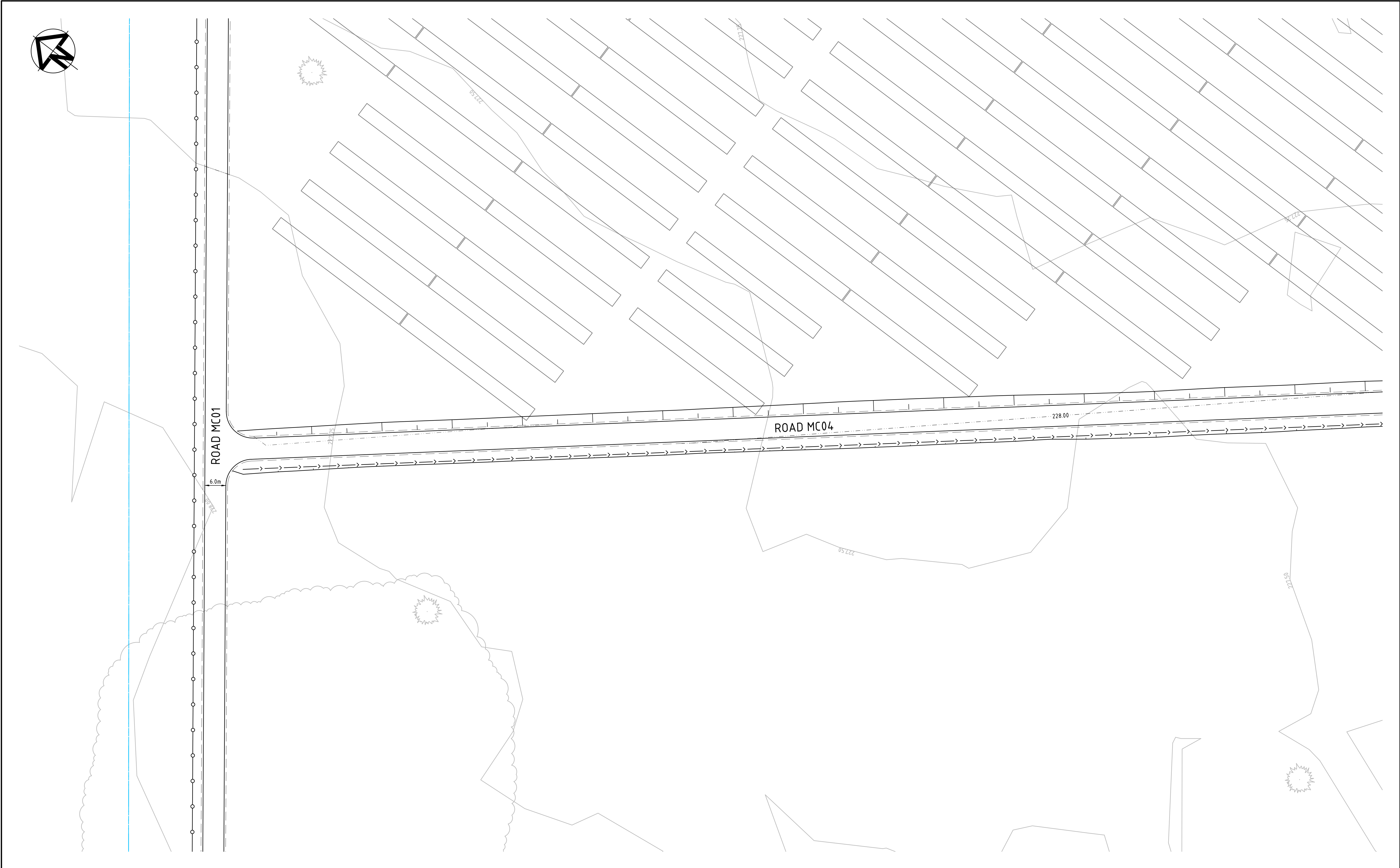
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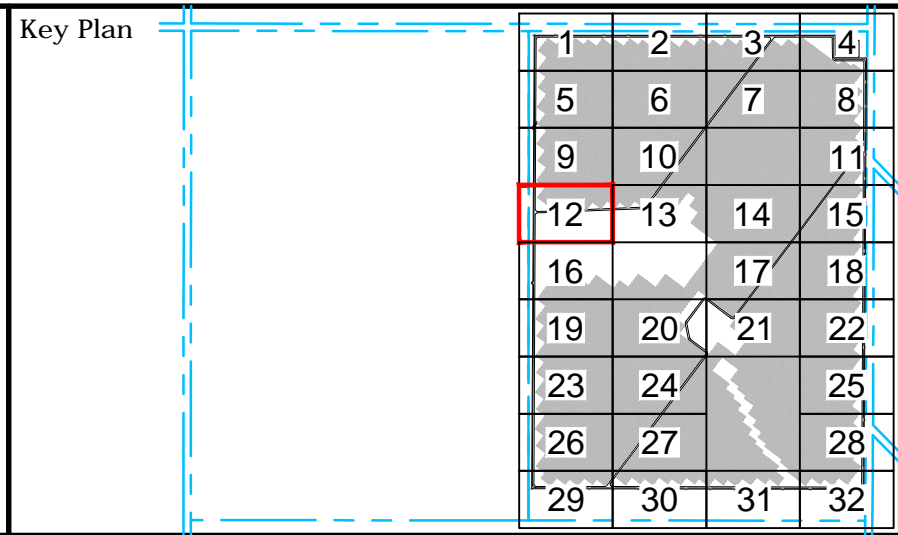
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Project		WEST WYALONG SOLAR FARM
Title		SITEWORKS AND STORMWATER DRAINAGE PLAN SHEET 11

Civil Engineers and Project Managers		
at&L		
Level 7, 153 Walker Street North Sydney NSW 2060 ABN 96 130 882 405 Tel: 02 9439 1777 Fax: 02 9923 1055 www.atl.net.au info@atl.net.au		
Status	FOR APPROVAL NOT TO BE USED FOR CONSTRUCTION	A1
Project - Drawing No.	18-583-C021	Issue P2



P2	ISSUED FOR DEVELOPMENT APPLICATION	09-01-19
P1	ISSUED FOR DEVELOPMENT APPLICATION	05-12-18
Issue	Description	Date



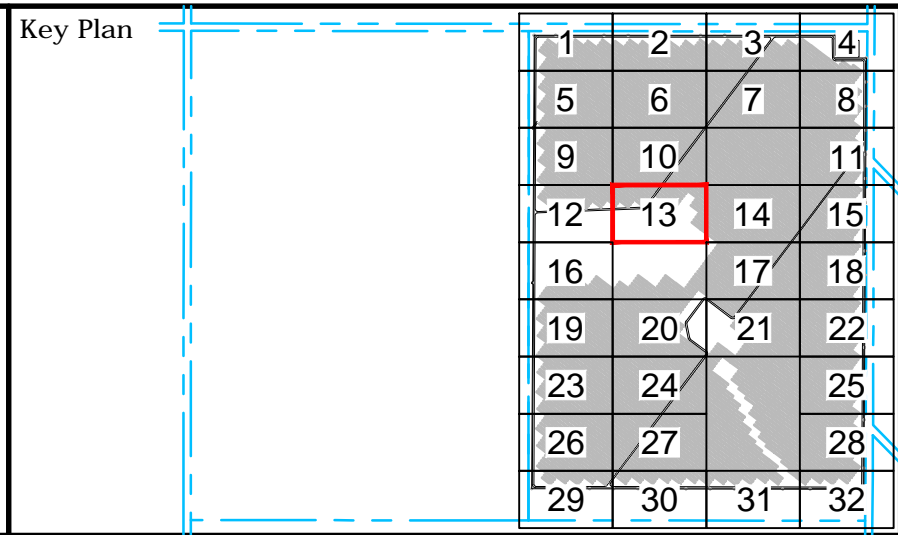
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Project	WEST WYALONG SOLAR FARM
Title	SITEWORKS AND STORMWATER DRAINAGE PLAN SHEET 12

Civil Engineers and Project Managers	
Level 7, 153 Walker Street North Sydney NSW 2060 ABN 96 130 882 405 Tel: 02 9439 1777 Fax: 02 9923 1055 www.atl.net.au info@atl.net.au	
Status	FOR APPROVAL
NOT TO BE USED FOR CONSTRUCTION	
Project - Drawing No.	18-583-C022
Issue	P2



P2	ISSUED FOR DEVELOPMENT APPLICATION	09-01-19
P1	ISSUED FOR DEVELOPMENT APPLICATION	05-12-18
Issue	Description	Date



Client

lightsource bp

Scales	1 : 500	Drawn	JB
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Grid	MGA	Checked	AT
Height Datum	AHD	Approved	
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Project

WEST WYALONG SOLAR FARM

Title

SITEWORKS AND STORMWATER DRAINAGE PLAN SHEET 13

Civil Engineers and Project Managers

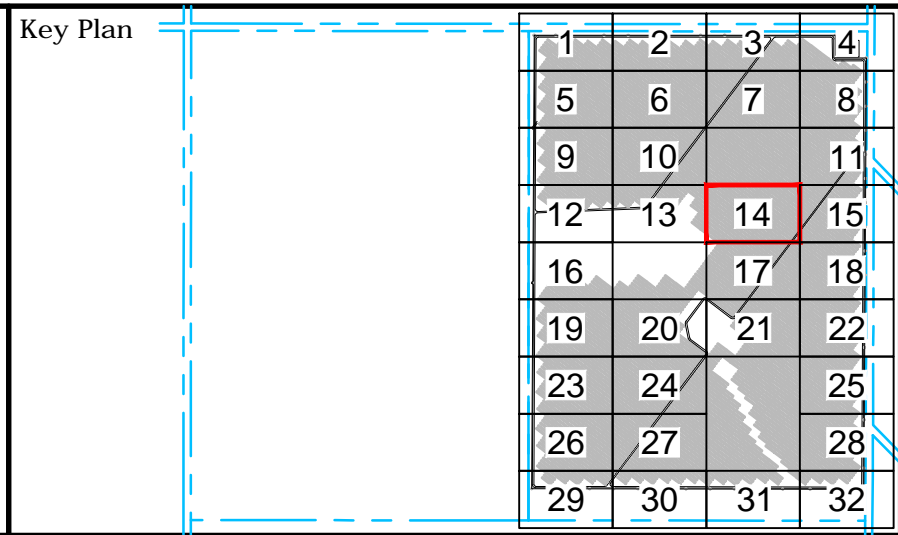
at&I

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North Sydney NSW 2060
ABN 96 130 882 405
Tel: 02 9439 1777
Fax: 02 9923 1055
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info@atl.net.au

Status	FOR APPROVAL	A1
NOT TO BE USED FOR CONSTRUCTION		
Project - Drawing No.	18-583-C023	Issue
		P2



P2	ISSUED FOR DEVELOPMENT APPLICATION	09-01-19
P1	ISSUED FOR DEVELOPMENT APPLICATION	05-12-18
Issue	Description	Date




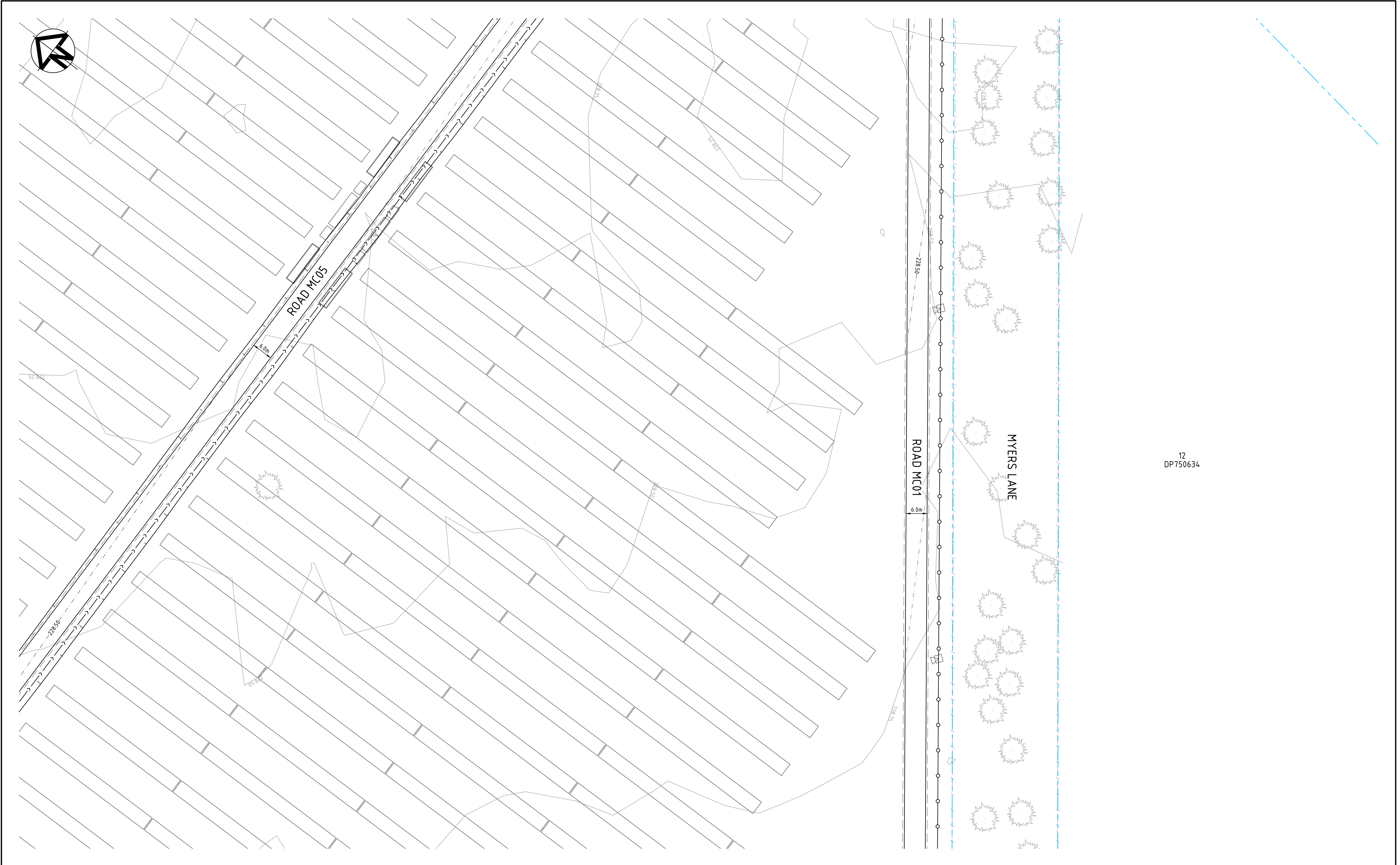
Client

lightsourcebp

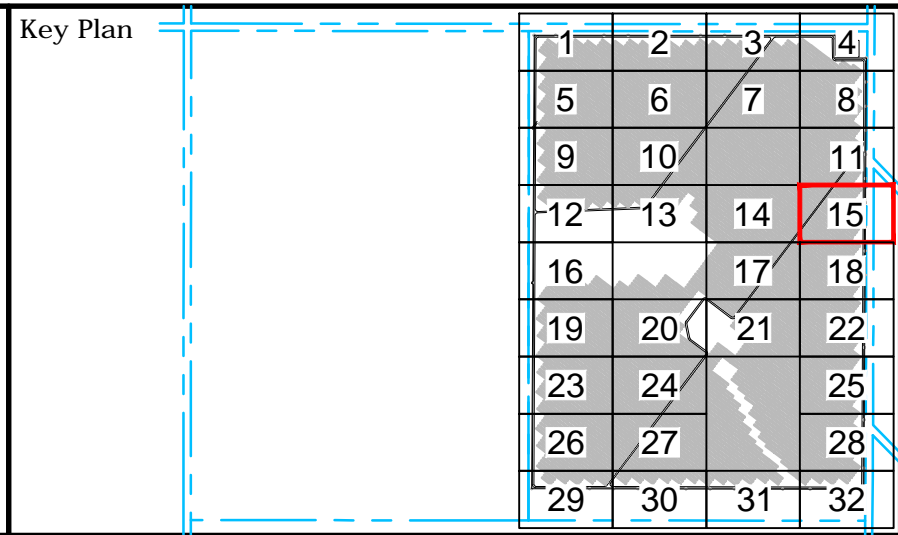
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Project	WEST WYALONG SOLAR FARM
Title	SITEWORKS AND STORMWATER DRAINAGE PLAN SHEET 14

Civil Engineers and Project Managers	
	
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Status	FOR APPROVAL
NOT TO BE USED FOR CONSTRUCTION	
Project - Drawing No.	18-583-C024
Issue	P2



P2	ISSUED FOR DEVELOPMENT APPLICATION	09-01-19
P1	ISSUED FOR DEVELOPMENT APPLICATION	05-12-18
Issue	Description	Date



Client

lightsource bp

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Grid	MGA	Checked	AT
Height Datum	AHD	Approved	
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Project

WEST WYALONG
SOLAR FARM

Title

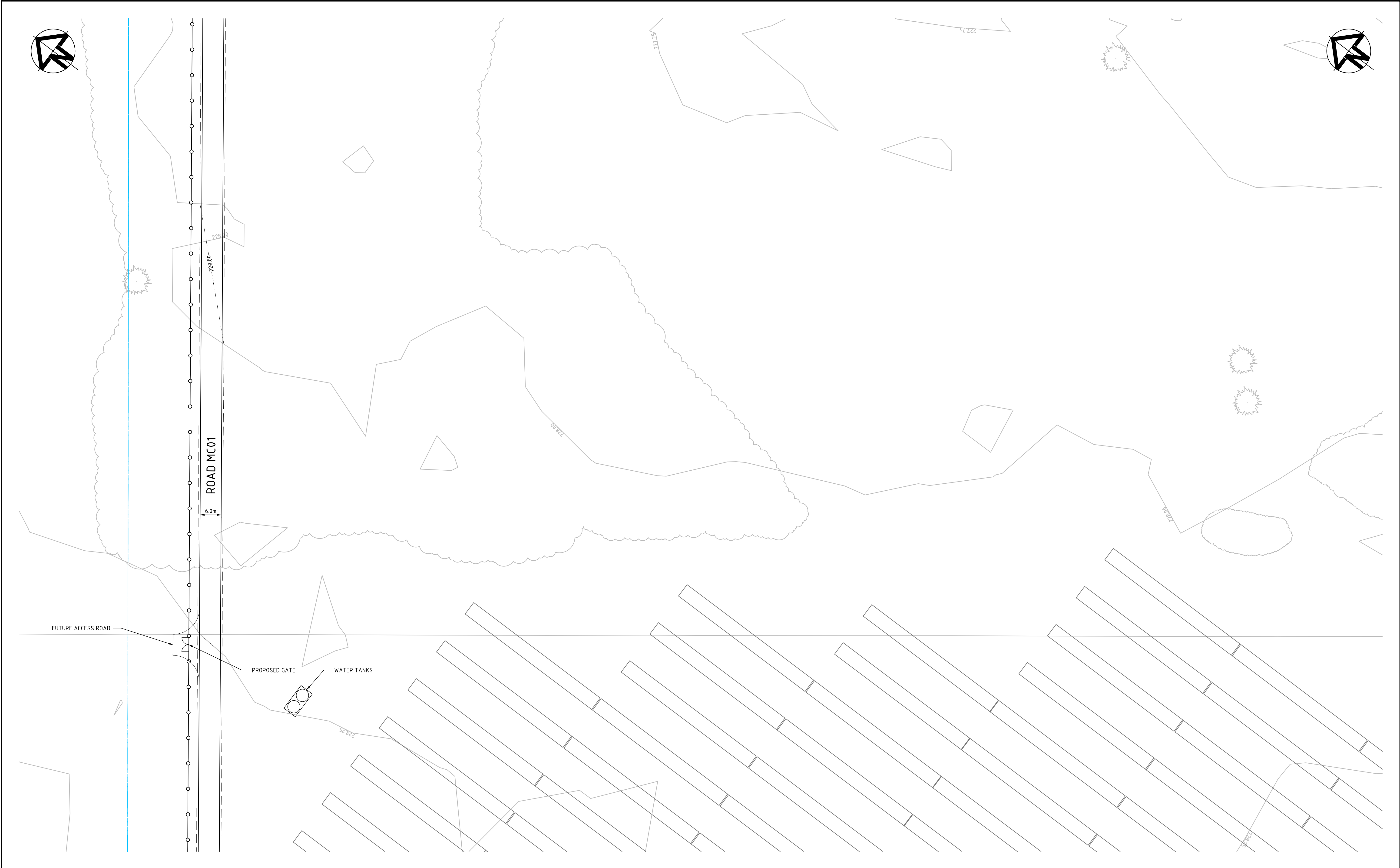
SITEWORKS AND
STORMWATER DRAINAGE
PLAN
SHEET 15

Civil Engineers and Project Managers

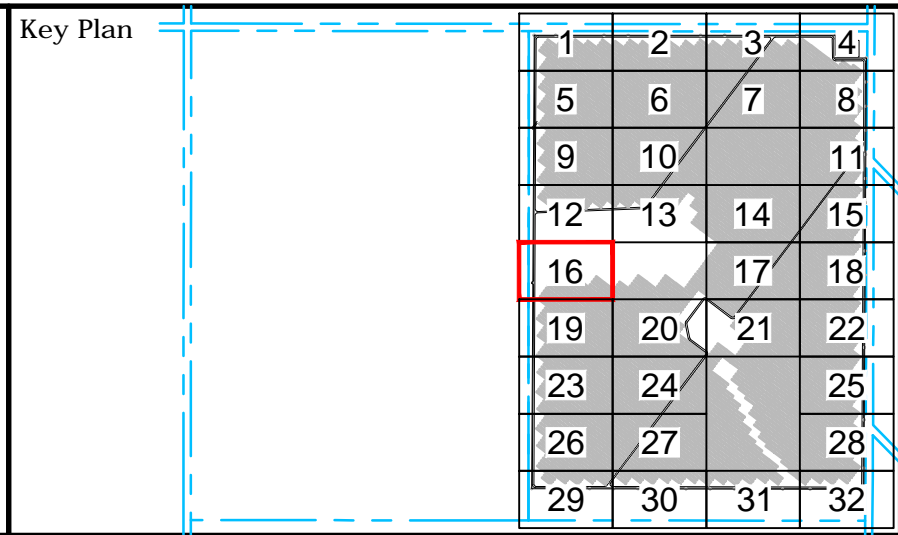
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ABN 96 130 882 405
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info@atl.net.au

Status	FOR APPROVAL	A1
Project - Drawing No.	18-583-C025	Issue
		P2



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P1	ISSUED FOR DEVELOPMENT APPLICATION	05-12-18
Issue	Description	Date



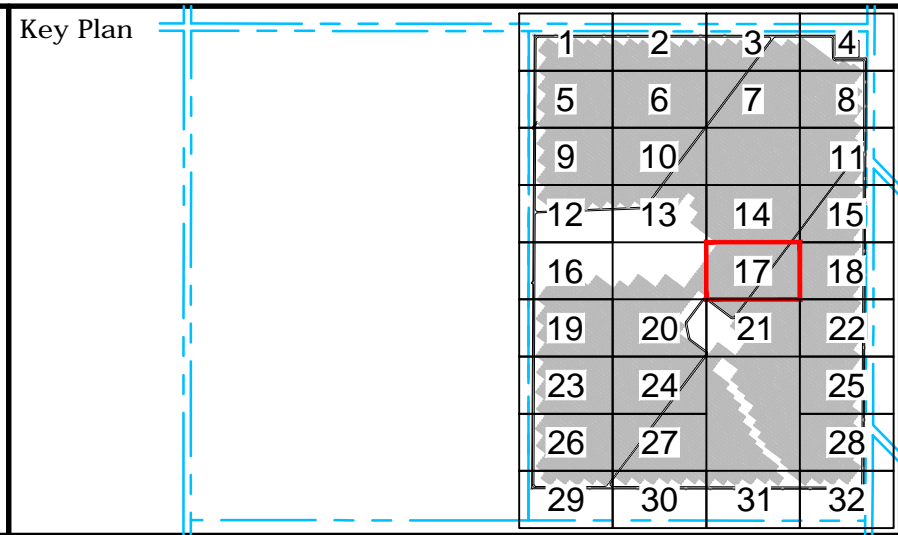
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Project	WEST WYALONG SOLAR FARM
Title	SITEWORKS AND STORMWATER DRAINAGE PLAN SHEET 16

Civil Engineers and Project Managers		
at&l		
Level 7, 153 Walker Street North Sydney NSW 2060 ABN 96 130 882 405 Tel: 02 9439 1777 Fax: 02 9923 1055 www.atl.net.au info@atl.net.au		
Status	FOR APPROVAL	A1
NOT TO BE USED FOR CONSTRUCTION		
Project - Drawing No.		Issue
18-583-C026		P2



P2	ISSUED FOR DEVELOPMENT APPLICATION	09-01-19
P1	ISSUED FOR DEVELOPMENT APPLICATION	05-12-18
Issue	Description	Date



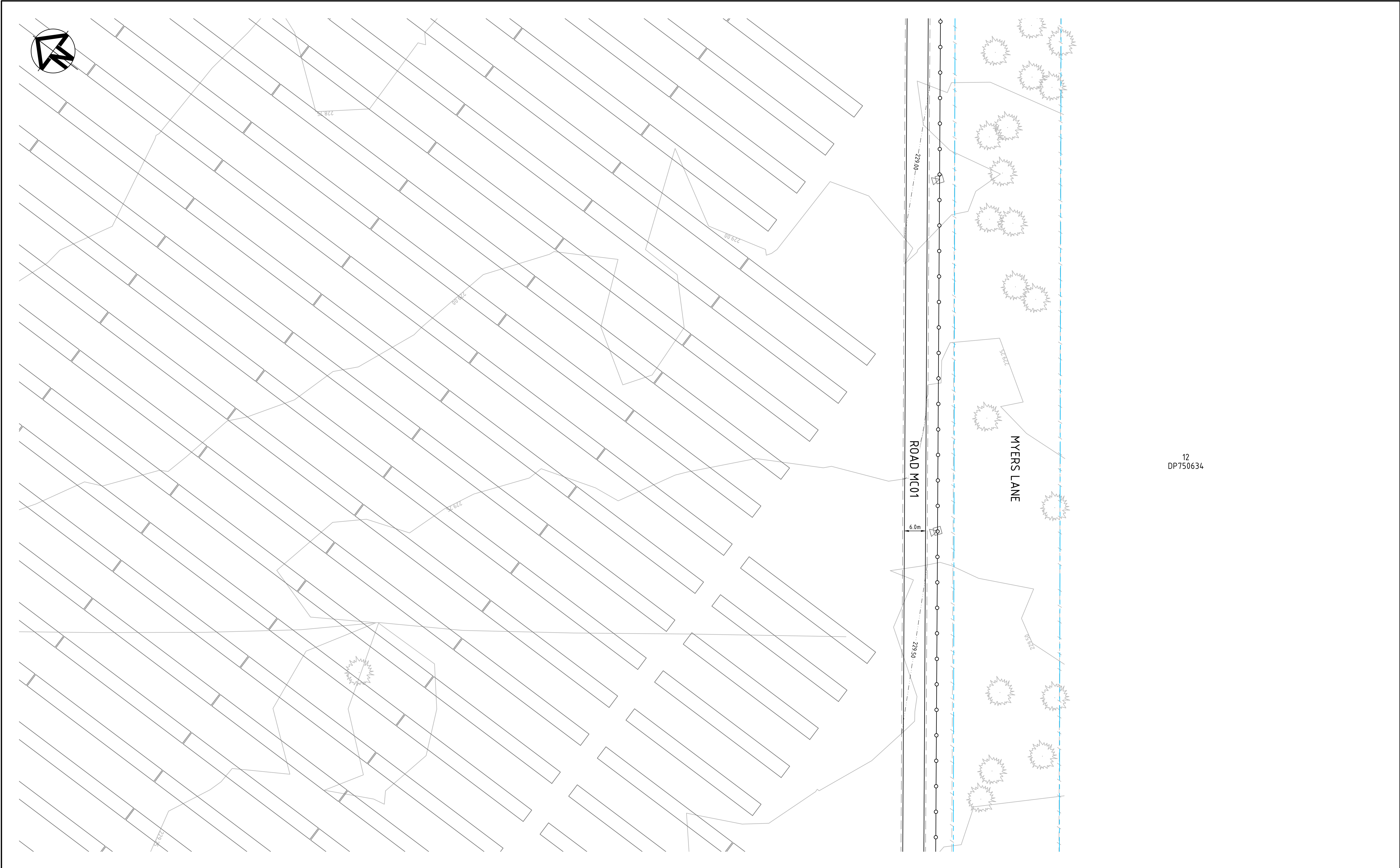
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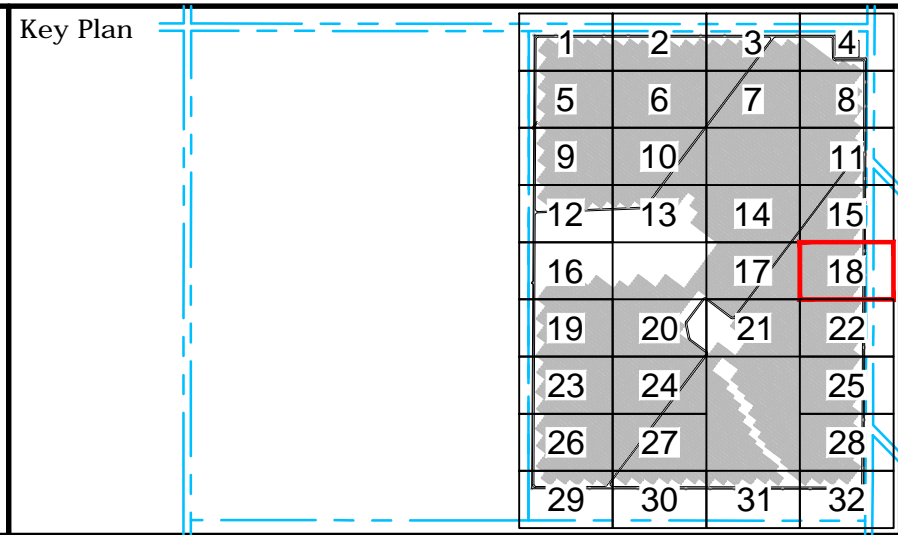
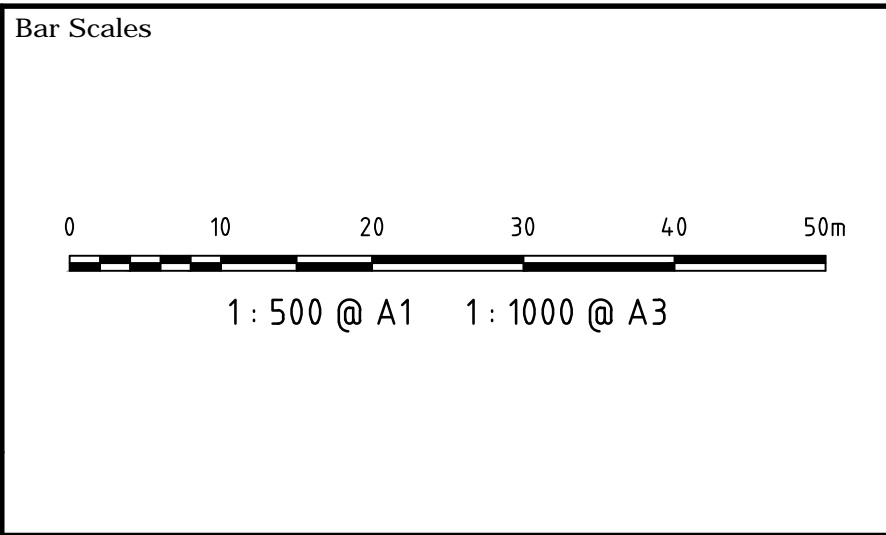
Project	WEST WYALONG SOLAR FARM
Title	SITEWORKS AND STORMWATER DRAINAGE PLAN SHEET 17

Civil Engineers and Project Managers		
at&l		
Level 7, 153 Walker Street North Sydney NSW 2060 ABN 96 130 882 405 Tel: 02 9439 1777 Fax: 02 9923 1055 www.atl.net.au info@atl.net.au		
Status	FOR APPROVAL	A1
NOT TO BE USED FOR CONSTRUCTION		
Project - Drawing No.		Issue
18-583-C027		P2



12
DP750634

P2	ISSUED FOR DEVELOPMENT APPLICATION	09-01-19
P1	ISSUED FOR DEVELOPMENT APPLICATION	05-12-18
Issue	Description	Date



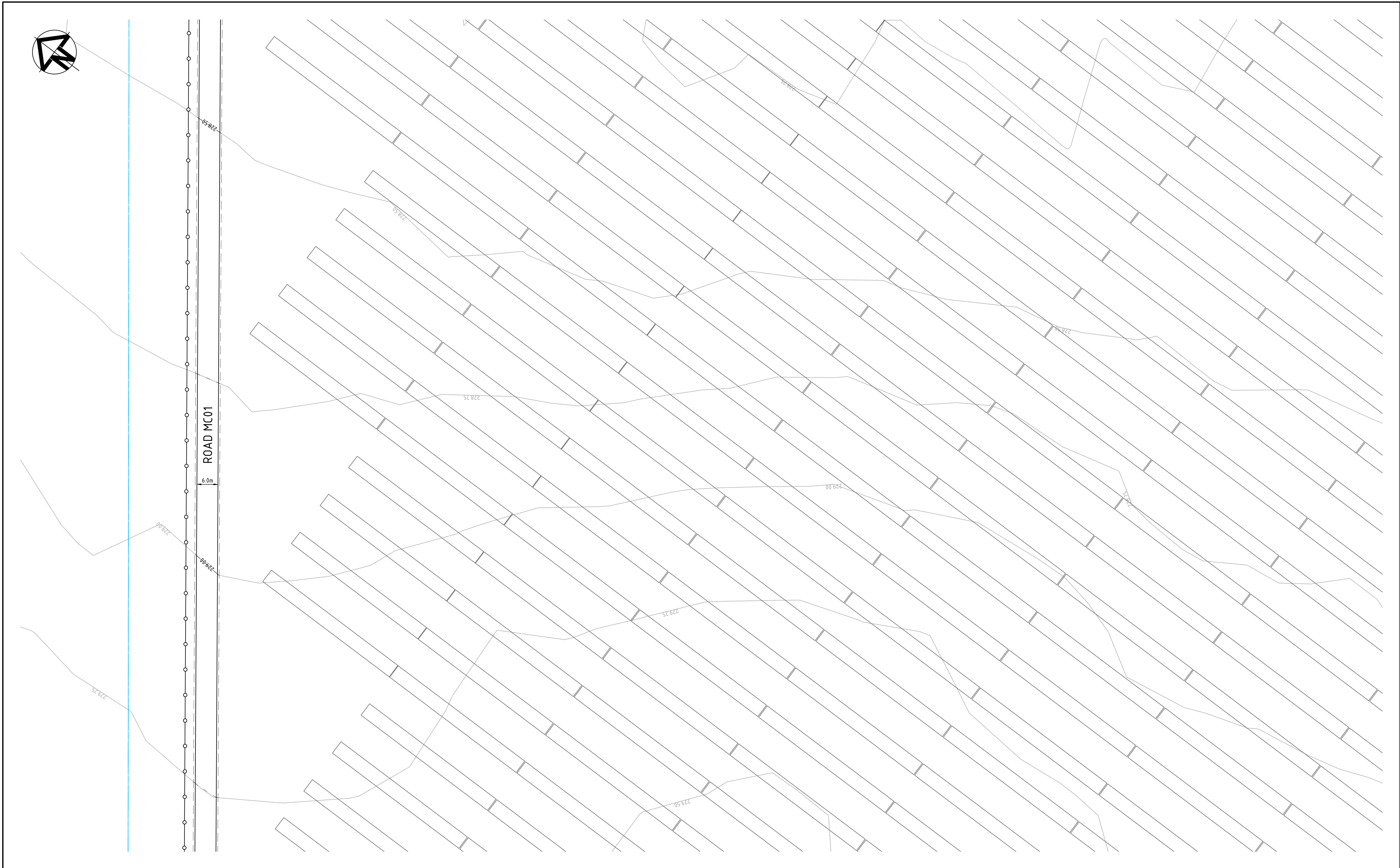
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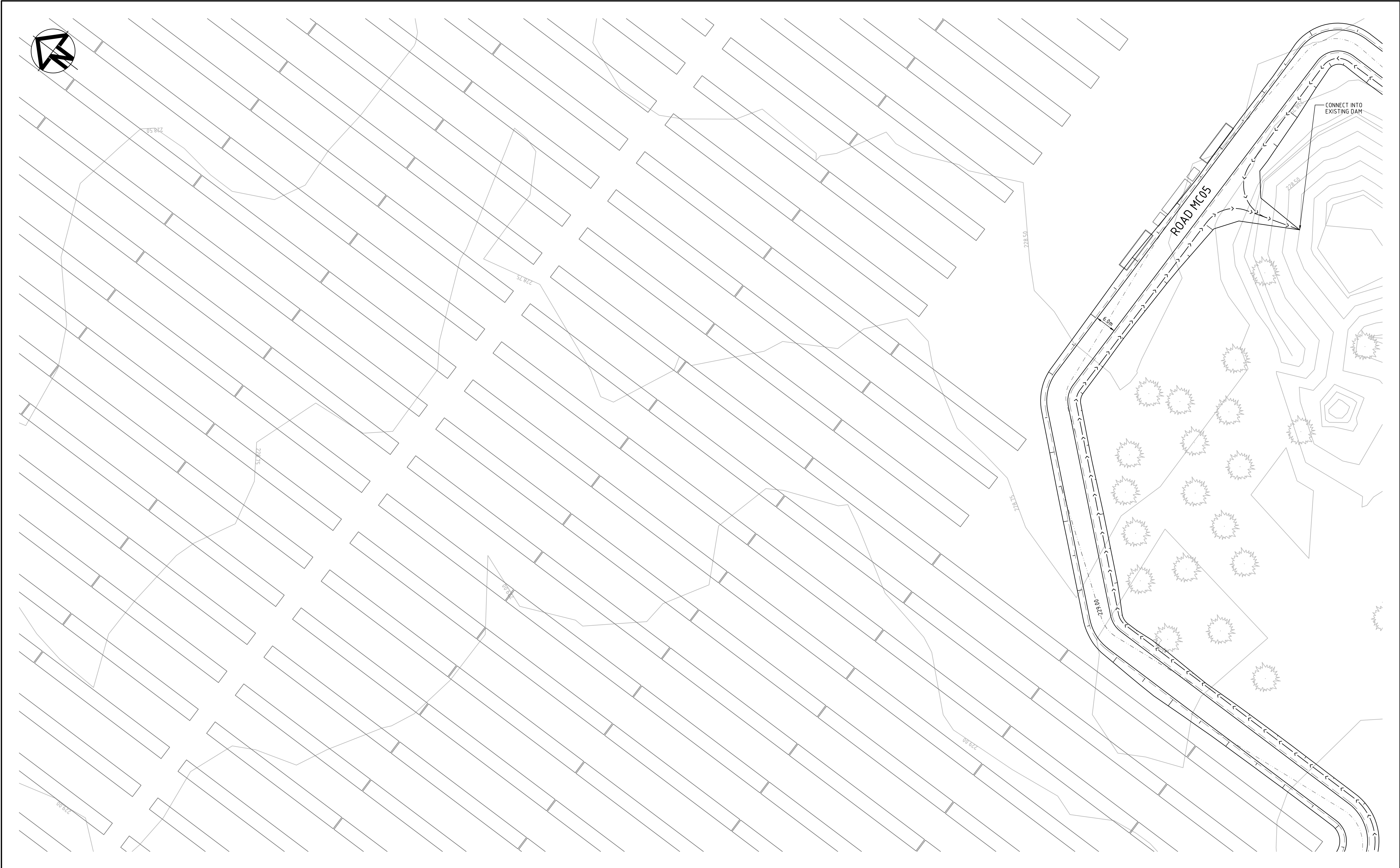
Project	WEST WYALONG SOLAR FARM
Title	SITEWORKS AND STORMWATER DRAINAGE PLAN SHEET 18

Civil Engineers and Project Managers		
at&l		
Level 7, 153 Walker Street North Sydney NSW 2060 ABN 96 130 882 405 Tel: 02 9439 1777 Fax: 02 9923 1055 www.atl.net.au info@atl.net.au		
Status	FOR APPROVAL	A1
NOT TO BE USED FOR CONSTRUCTION		
Project - Drawing No.	18-583-C028	Issue
		P2

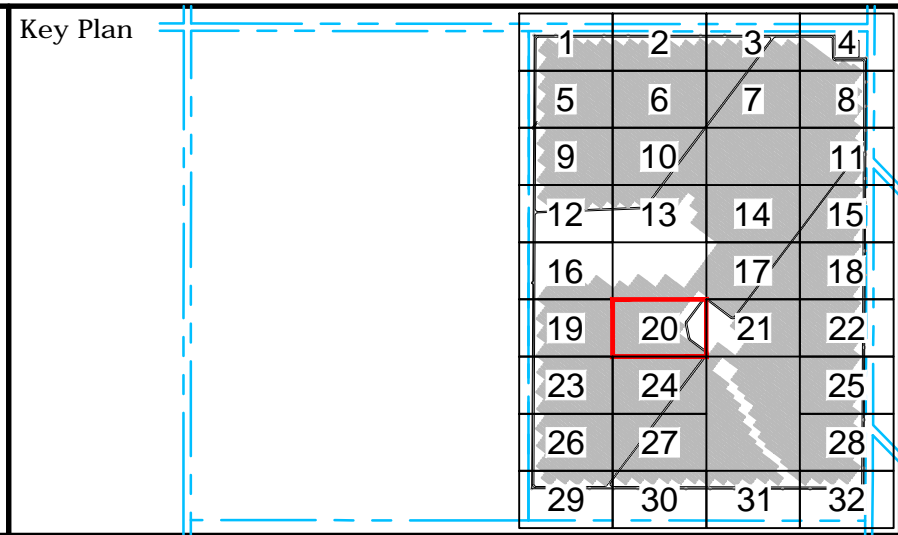


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P1	ISSUED FOR DEVELOPMENT APPLICATION	05-12-18
Issue	Description	Date



Client

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Project

WEST WYALONG SOLAR FARM

Title

SITWORKS AND STORMWATER DRAINAGE PLAN SHEET 20

Civil Engineers and Project Managers

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ABN 96 130 882 405
Tel: 02 9439 1777
Fax: 02 9923 1055
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Status

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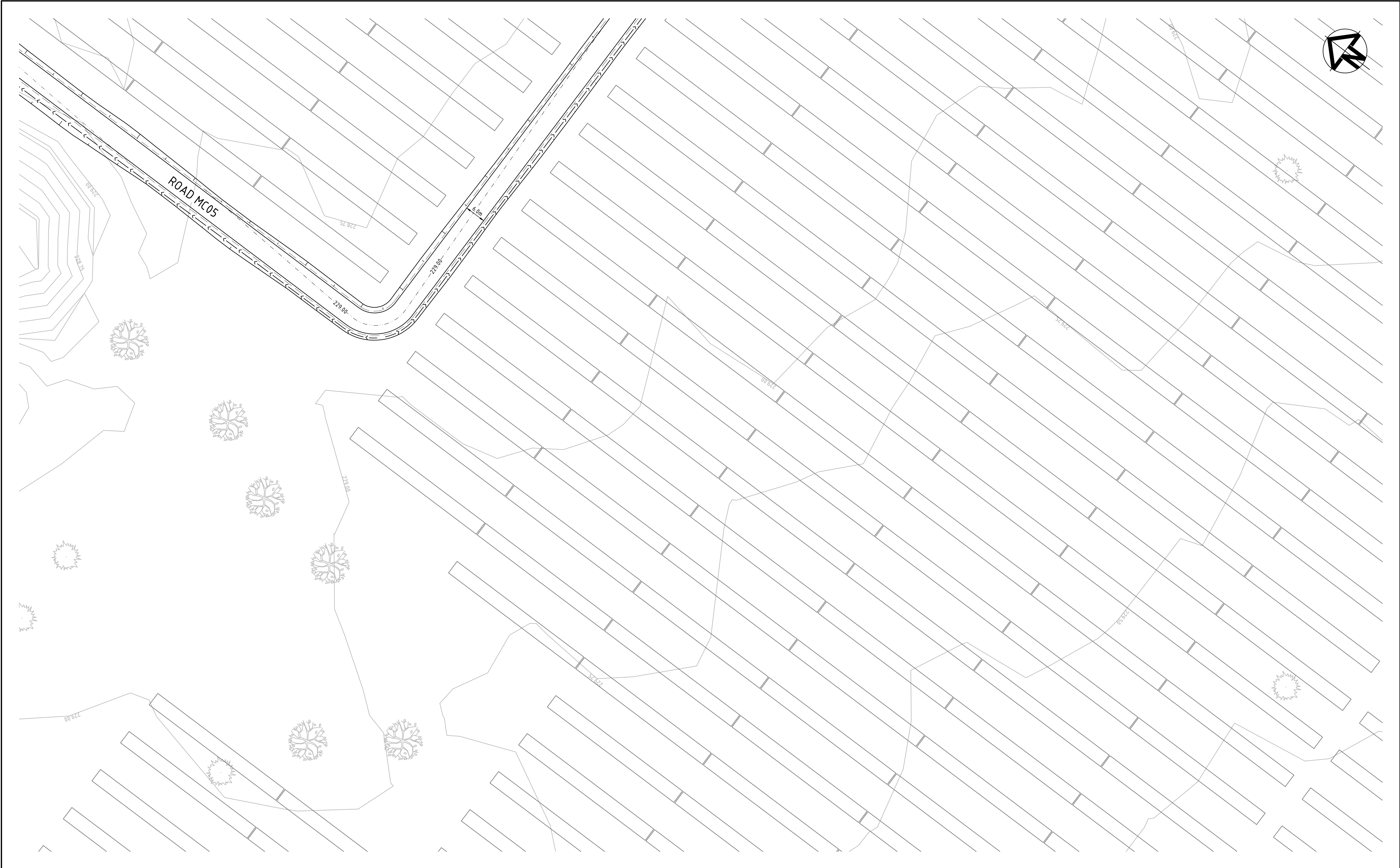
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Project - Drawing No.

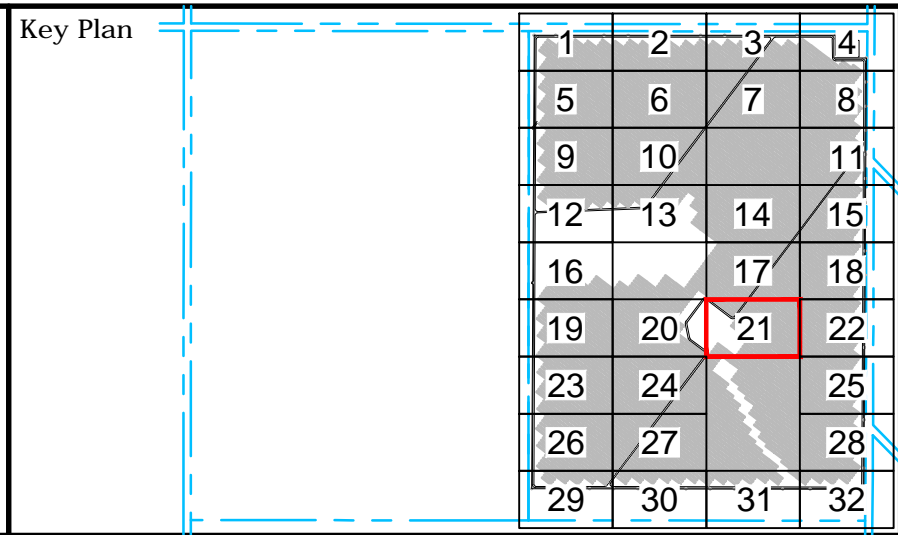
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Issue

P2



P2	ISSUED FOR DEVELOPMENT APPLICATION	09-01-19
P1	ISSUED FOR DEVELOPMENT APPLICATION	05-12-18
Issue	Description	Date



Client

lightsource bp

Scales	1 : 500	Drawn	JB
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Project

WEST WYALONG SOLAR FARM

Title

SITEWORKS AND STORMWATER DRAINAGE PLAN SHEET 21

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North Sydney NSW 2060
ABN 96 130 882 405
Tel: 02 9439 1777
Fax: 02 9923 1055
www.atl.net.au
info@atl.net.au

Status

FOR APPROVAL

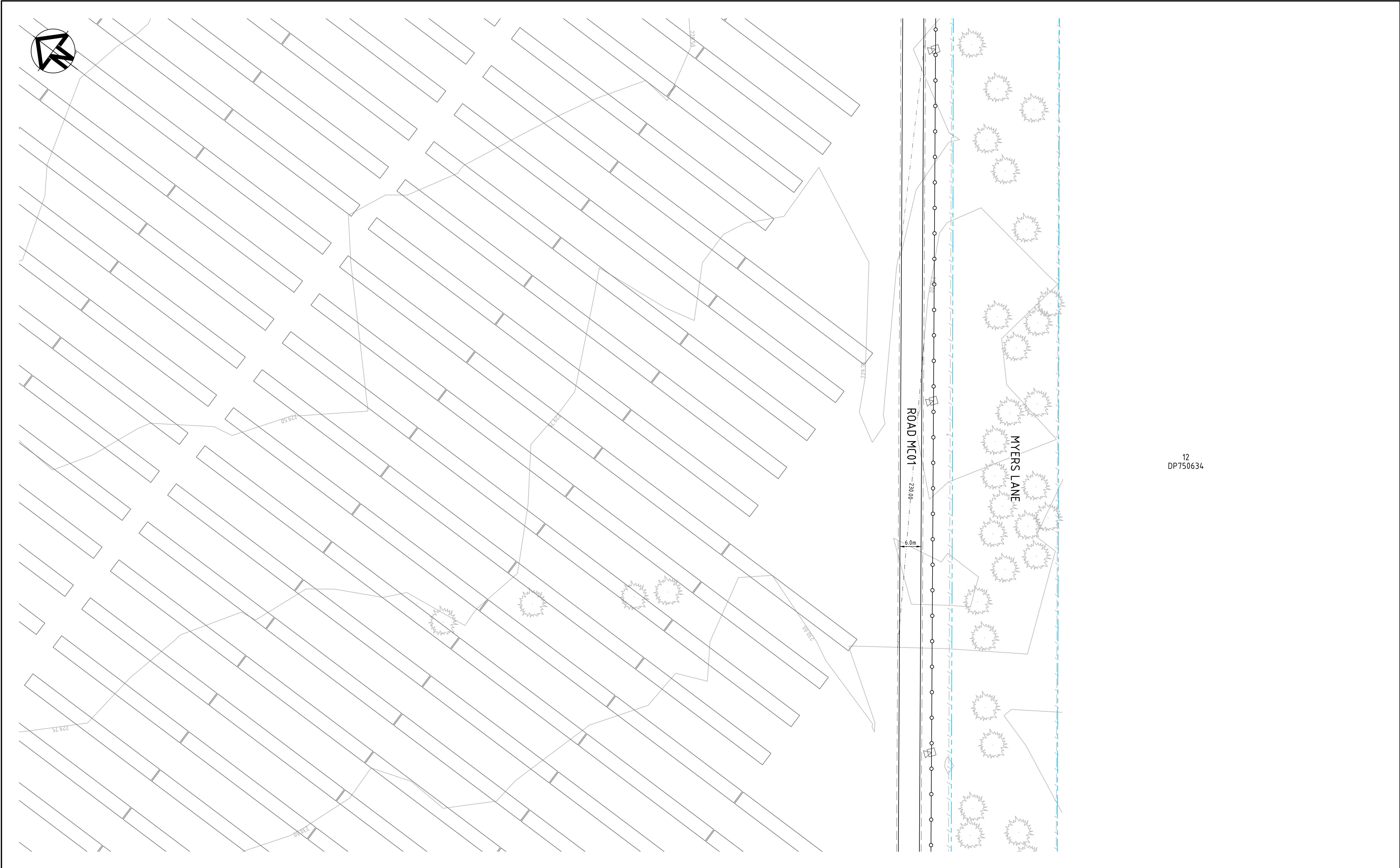
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Project - Drawing No.

18-583-C031

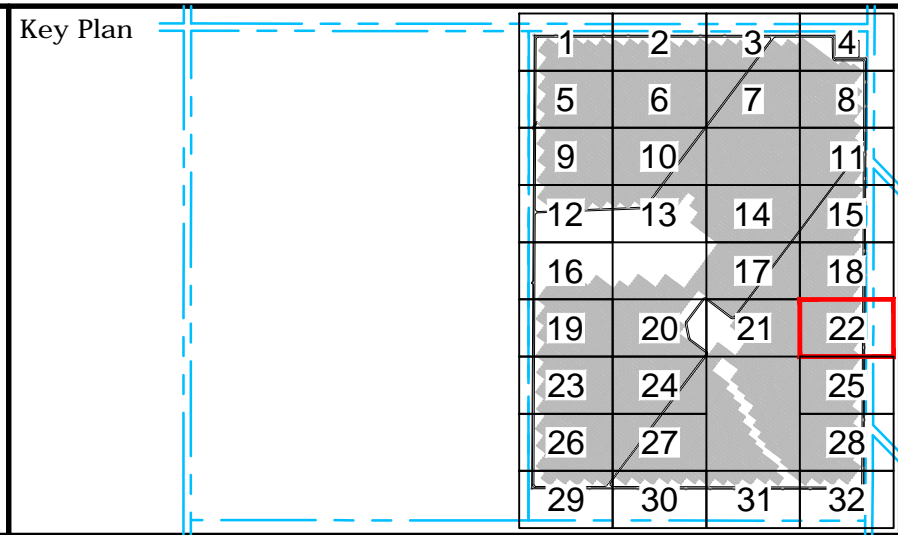
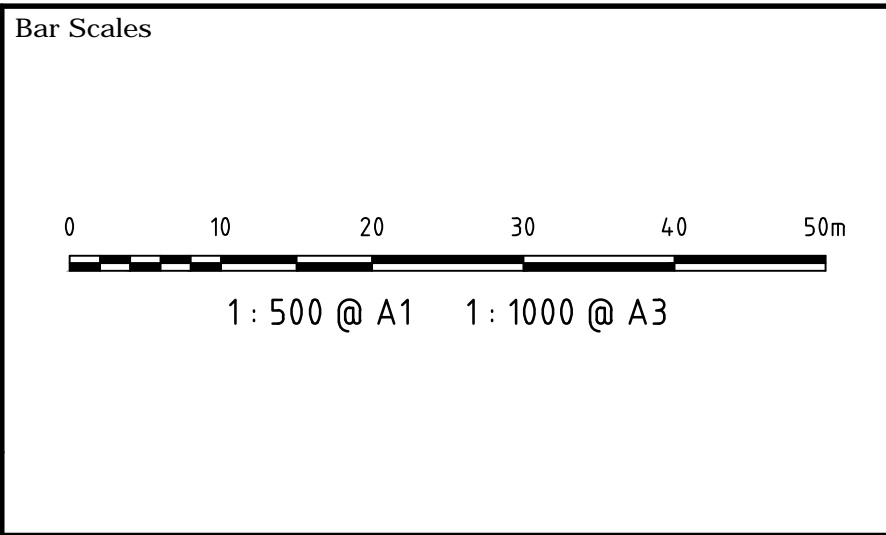
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P2



12
DP750634

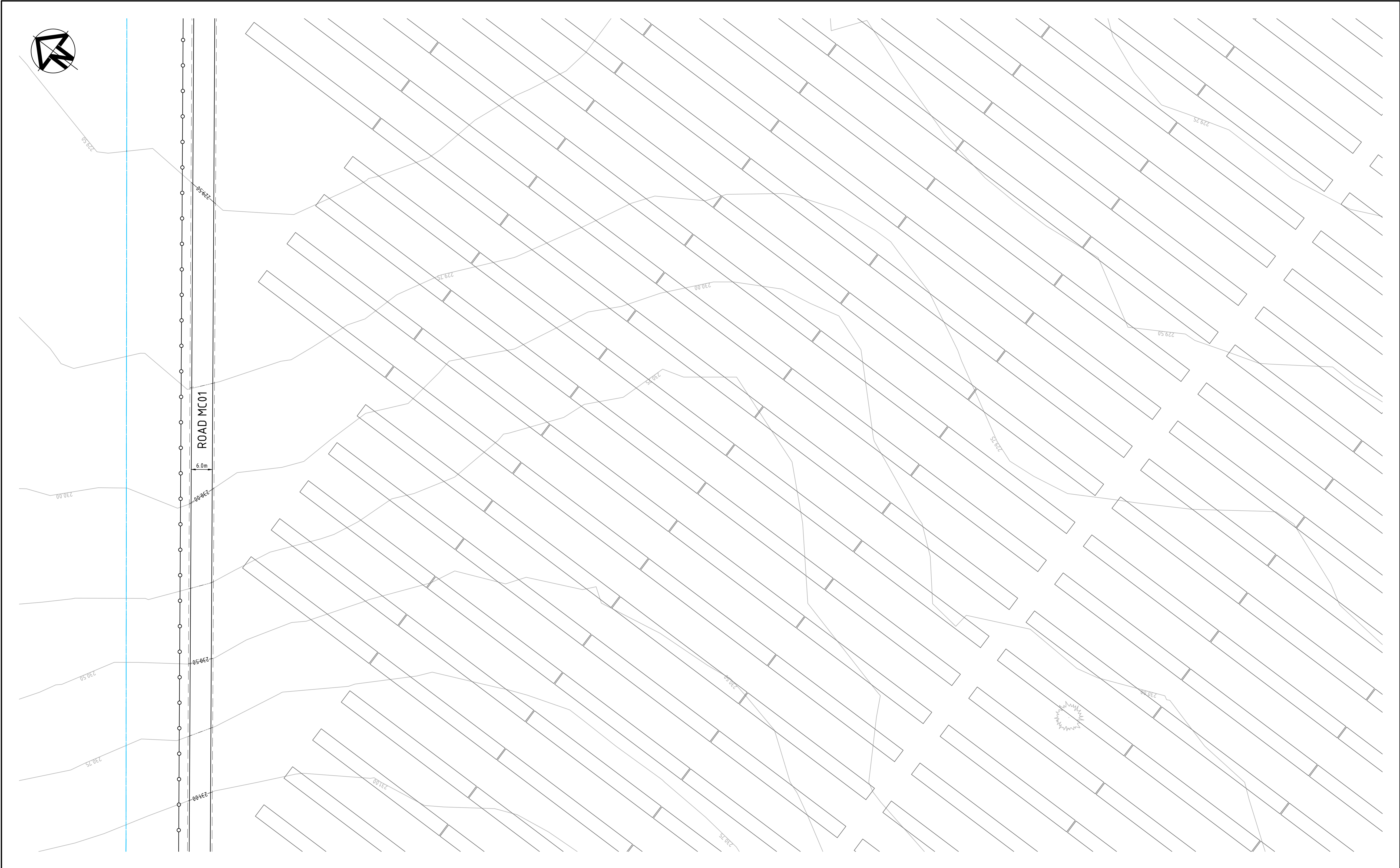
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P1	ISSUED FOR DEVELOPMENT APPLICATION	05-12-18
Issue	Description	Date



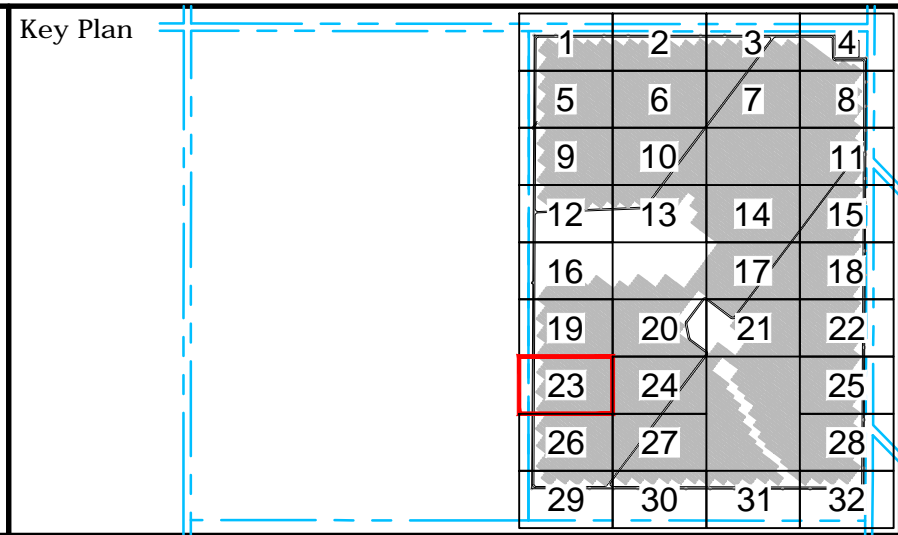
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Project	WEST WYALONG SOLAR FARM
Title	SITEWORKS AND STORMWATER DRAINAGE PLAN SHEET 22

Civil Engineers and Project Managers		
Level 7, 153 Walker Street North Sydney NSW 2060 ABN 96 130 882 405 Tel: 02 9439 1777 Fax: 02 9923 1055 www.atl.net.au info@atl.net.au		
Status	FOR APPROVAL	A1
NOT TO BE USED FOR CONSTRUCTION		
Project - Drawing No.	18-583-C032	Issue
		P2



P2	ISSUED FOR DEVELOPMENT APPLICATION	09-01-19
P1	ISSUED FOR DEVELOPMENT APPLICATION	05-12-18
Issue	Description	Date



Client

lightsource bp

Scales	1 : 500	Drawn	JB
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Grid	MGA	Checked	AT
Height Datum	AHD	Approved	
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Project

WEST WYALONG SOLAR FARM

Title

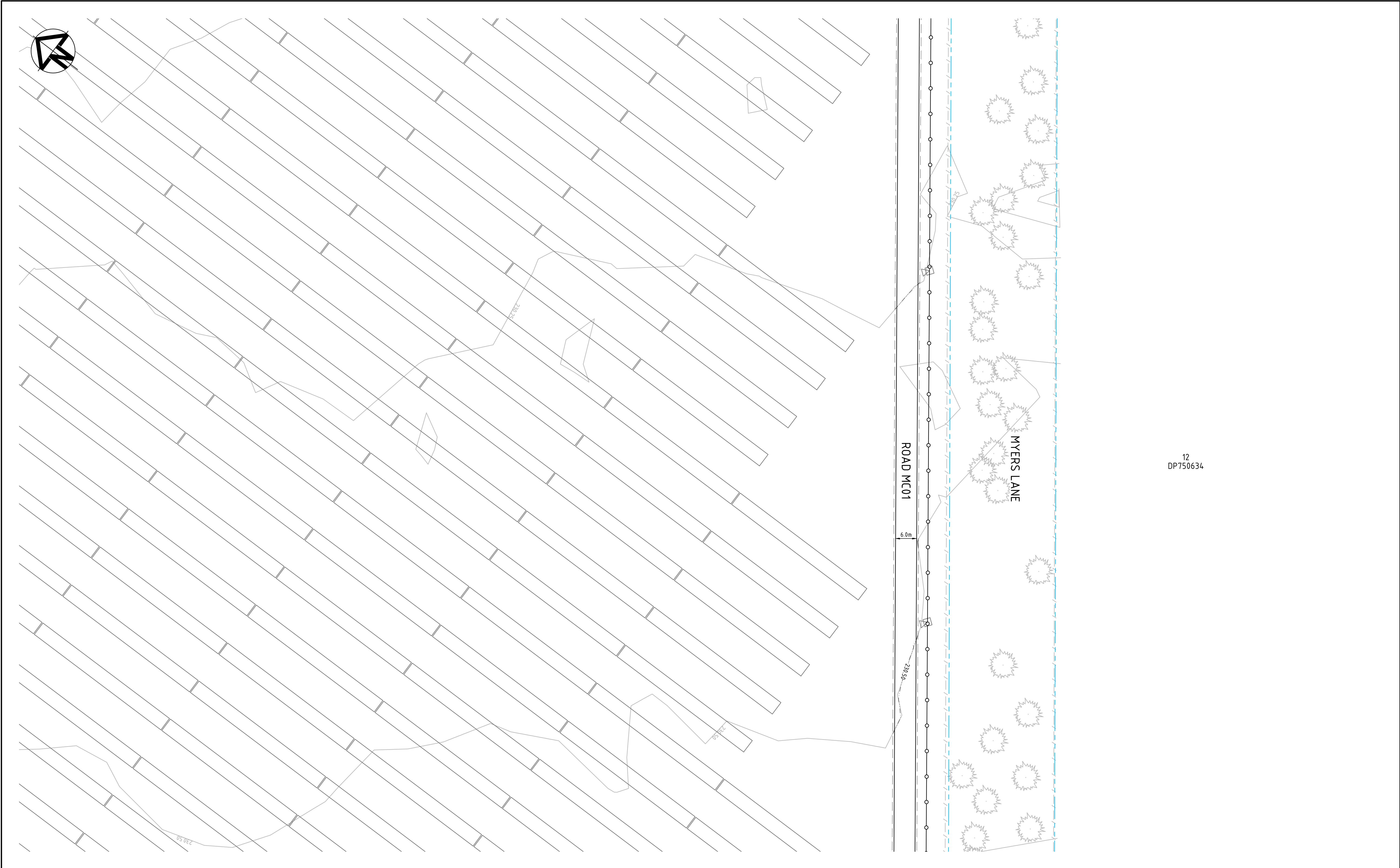
SITEWORKS AND STORMWATER DRAINAGE PLAN SHEET 23

Civil Engineers and Project Managers

at&l

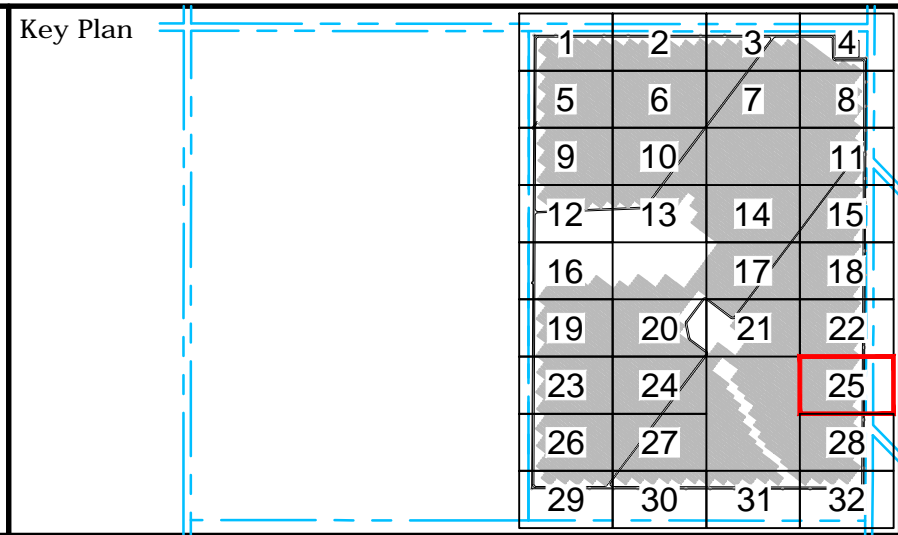
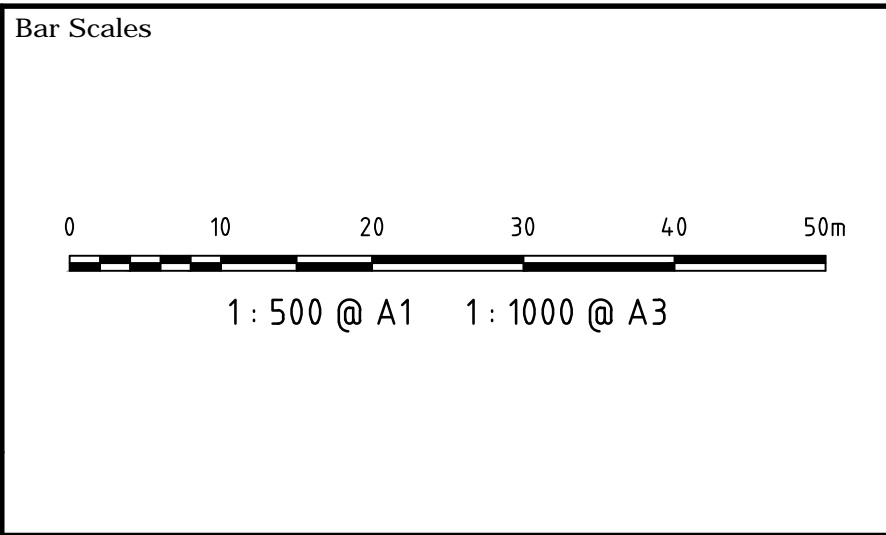
Level 7, 153 Walker Street
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ABN 96 130 882 405
Tel: 02 9439 1777
Fax: 02 9923 1055
www.atl.net.au
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Status	FOR APPROVAL	A1
NOT TO BE USED FOR CONSTRUCTION		Issue
Project - Drawing No.		P2
18-583-C033		



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P2	ISSUED FOR DEVELOPMENT APPLICATION	09-01-19
P1	ISSUED FOR DEVELOPMENT APPLICATION	05-12-18
Issue	Description	Date



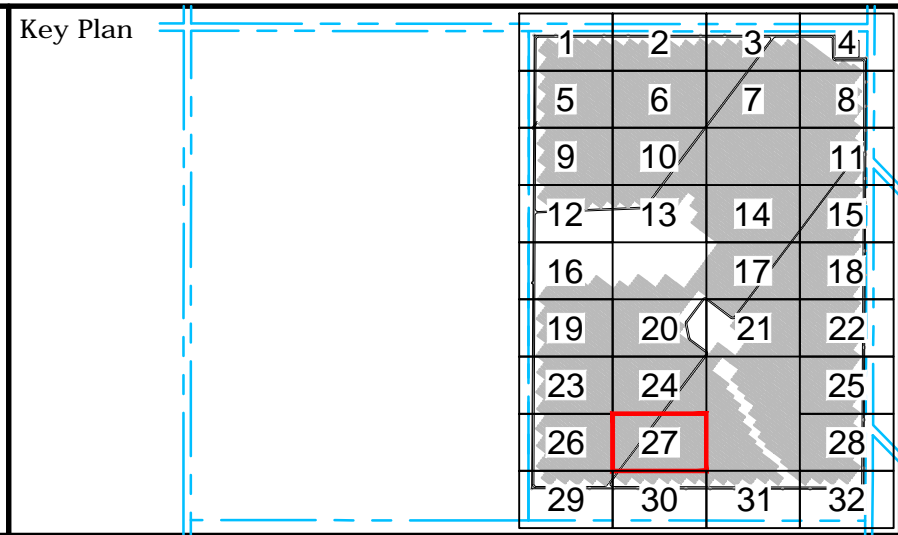
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Project	WEST WYALONG SOLAR FARM
Title	SITEWORKS AND STORMWATER DRAINAGE PLAN SHEET 25

Civil Engineers and Project Managers		
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Status	FOR APPROVAL NOT TO BE USED FOR CONSTRUCTION	A1
Project - Drawing No.	18-583-C035	Issue P2




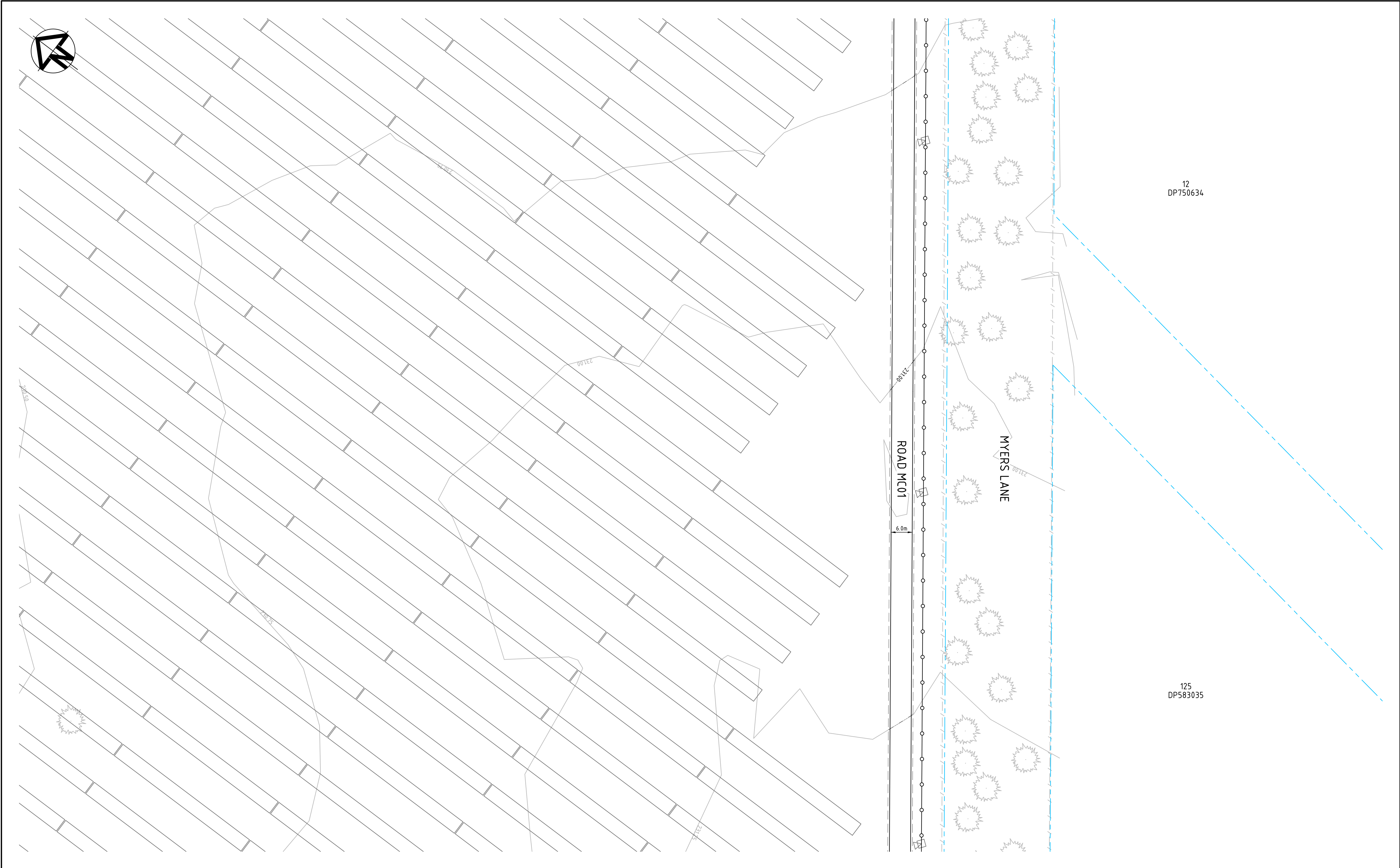
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Issue	Description	Date



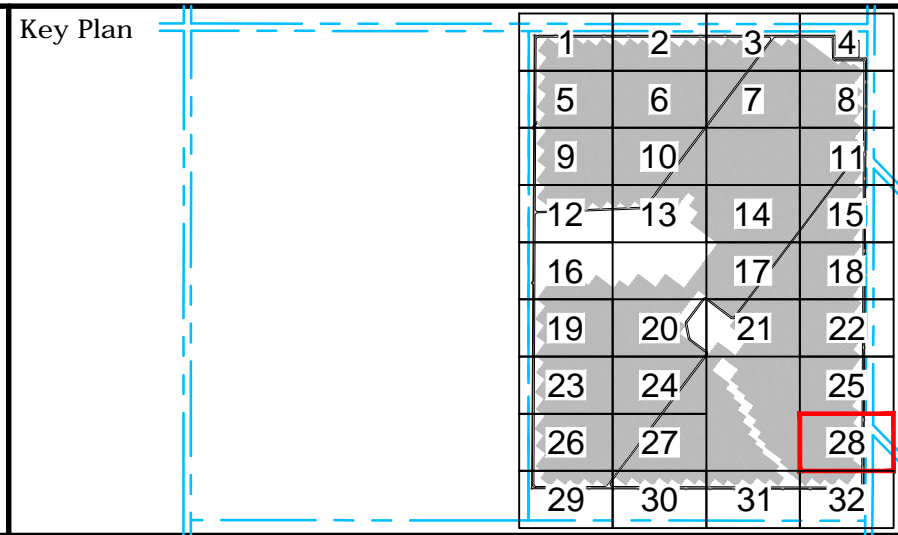
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Project	WEST WYALONG SOLAR FARM
Title	SITEWORKS AND STORMWATER DRAINAGE PLAN SHEET 27

Civil Engineers and Project Managers		
		
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Status	FOR APPROVAL	A1
NOT TO BE USED FOR CONSTRUCTION		
Project - Drawing No.		Issue
18-583-C037		P2



P2	ISSUED FOR DEVELOPMENT APPLICATION	09-01-19
P1	ISSUED FOR DEVELOPMENT APPLICATION	05-12-18
Issue	Description	Date



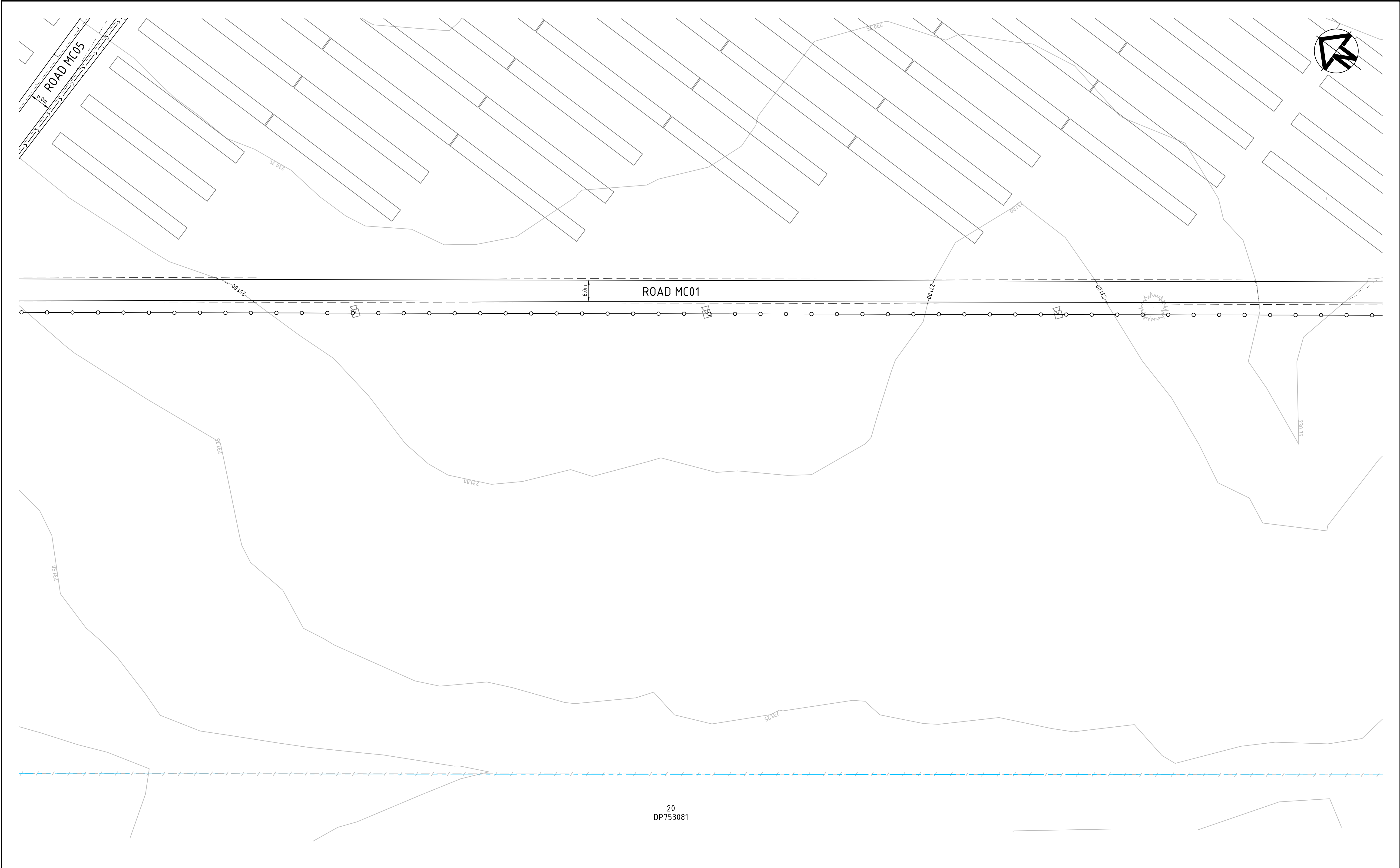
Client

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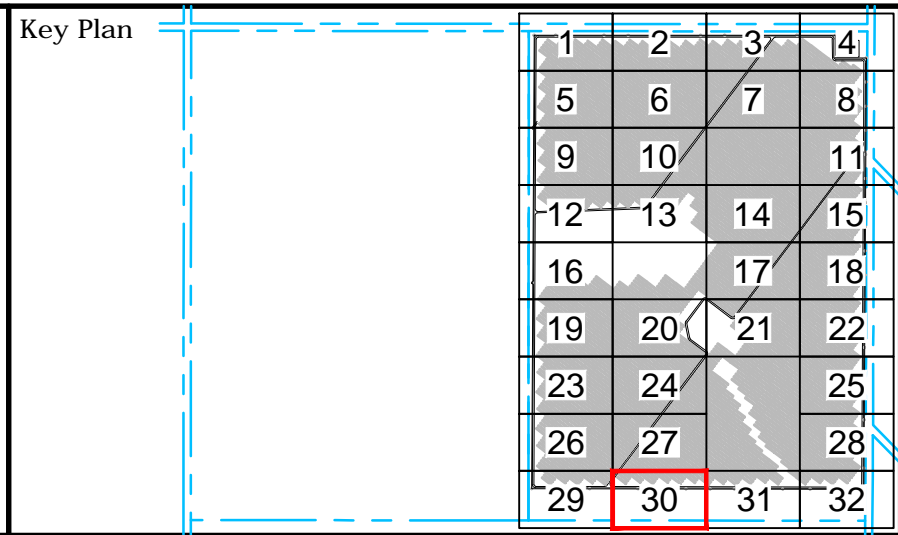
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Project	WEST WYALONG SOLAR FARM
Title	SITEWORKS AND STORMWATER DRAINAGE PLAN SHEET 28

Civil Engineers and Project Managers		
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Level 7, 153 Walker Street North Sydney NSW 2060 ABN 96 130 882 405 Tel: 02 9439 1777 Fax: 02 9923 1055 www.atl.net.au info@atl.net.au		
Status	FOR APPROVAL	A1
NOT TO BE USED FOR CONSTRUCTION		
Project - Drawing No.		Issue
18-583-C038		P2



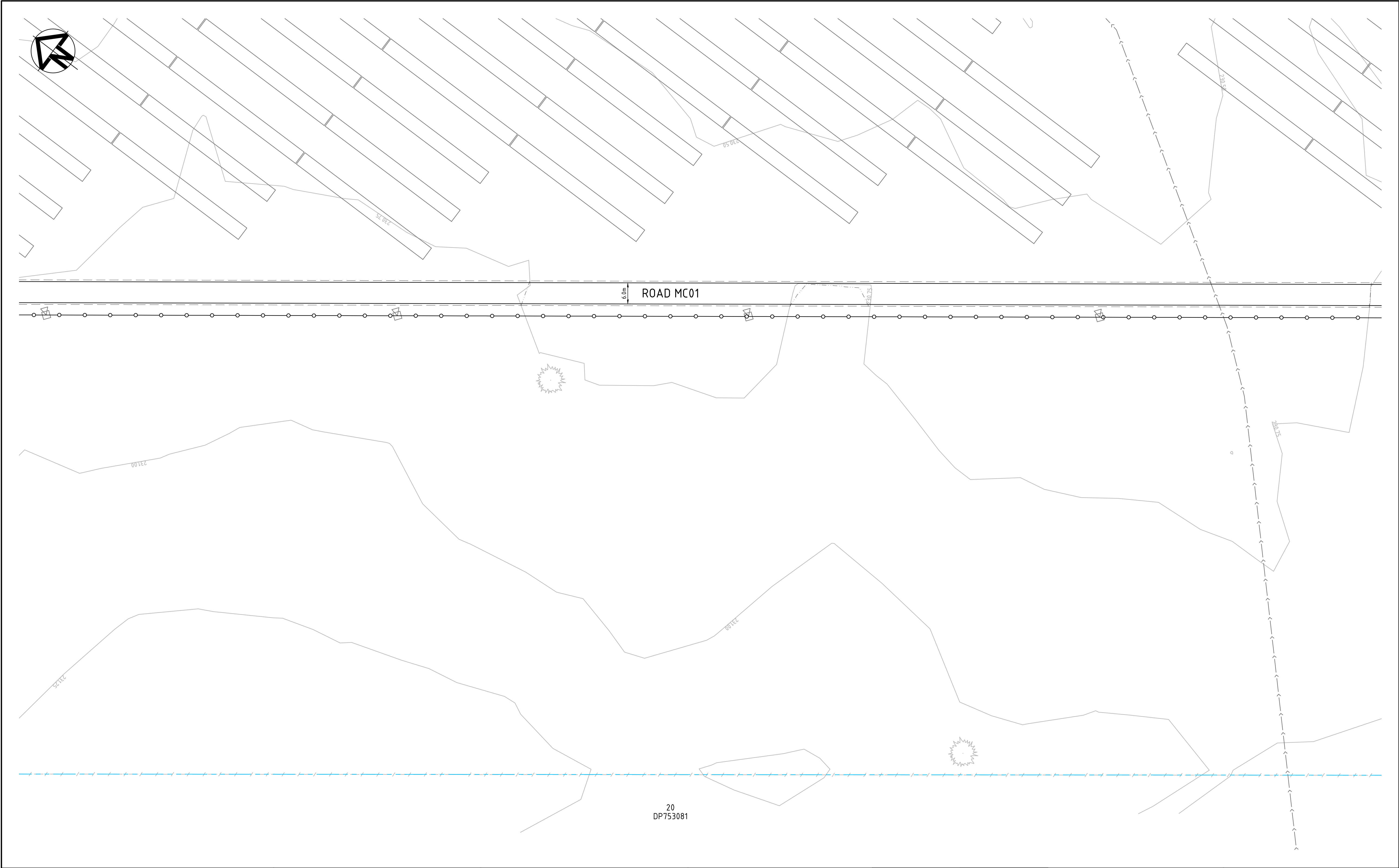
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P1	ISSUED FOR DEVELOPMENT APPLICATION	05-12-18
Issue	Description	Date



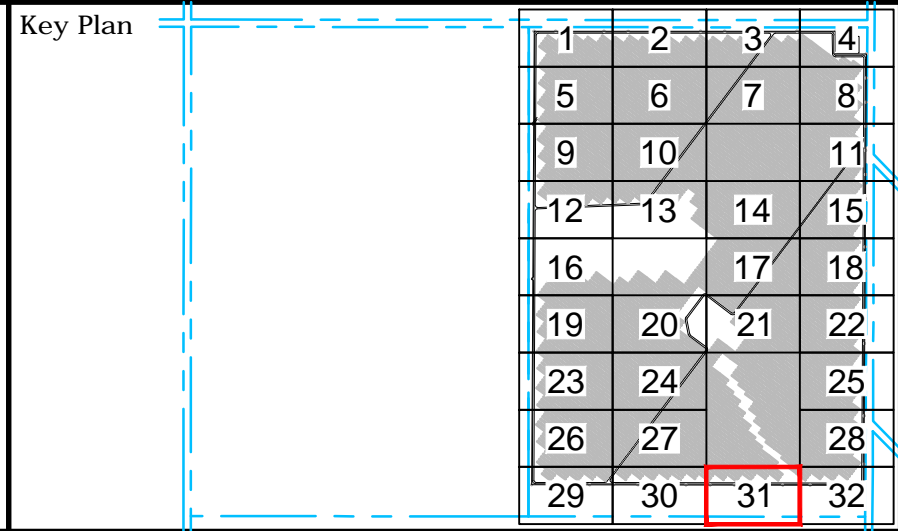
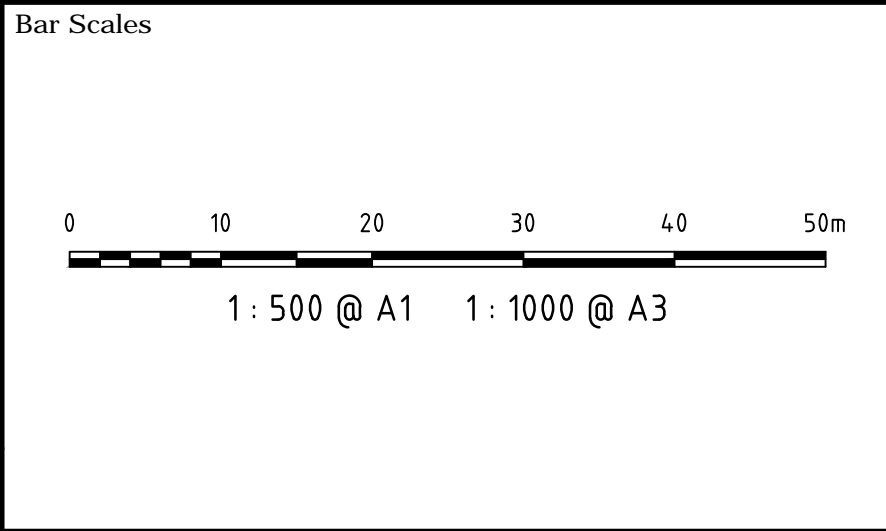
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Project	WEST WYALONG SOLAR FARM
Title	SITEWORKS AND STORMWATER DRAINAGE PLAN SHEET 30

Civil Engineers and Project Managers		
Level 7, 153 Walker Street North Sydney NSW 2060 ABN 96 130 882 405 Tel: 02 9439 1777 Fax: 02 9923 1055 www.atl.net.au info@atl.net.au		
Status	FOR APPROVAL NOT TO BE USED FOR CONSTRUCTION	A1
Project - Drawing No.	18-583-C040	Issue P2



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Issue	Description	Date



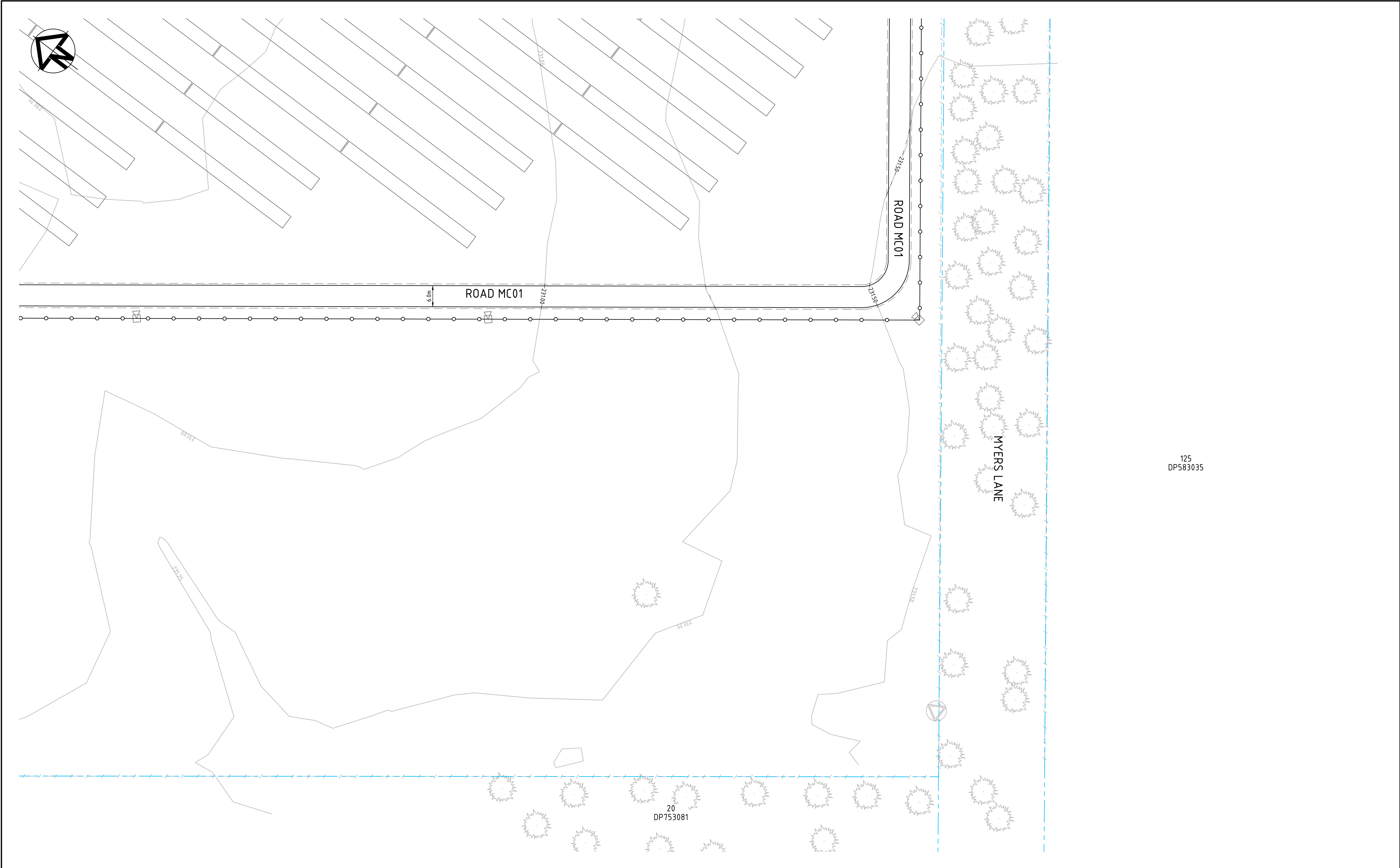
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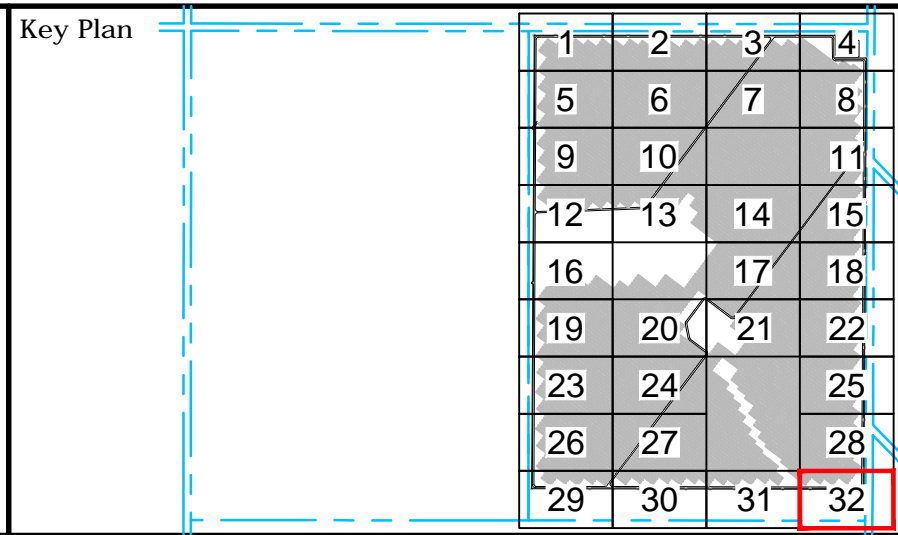
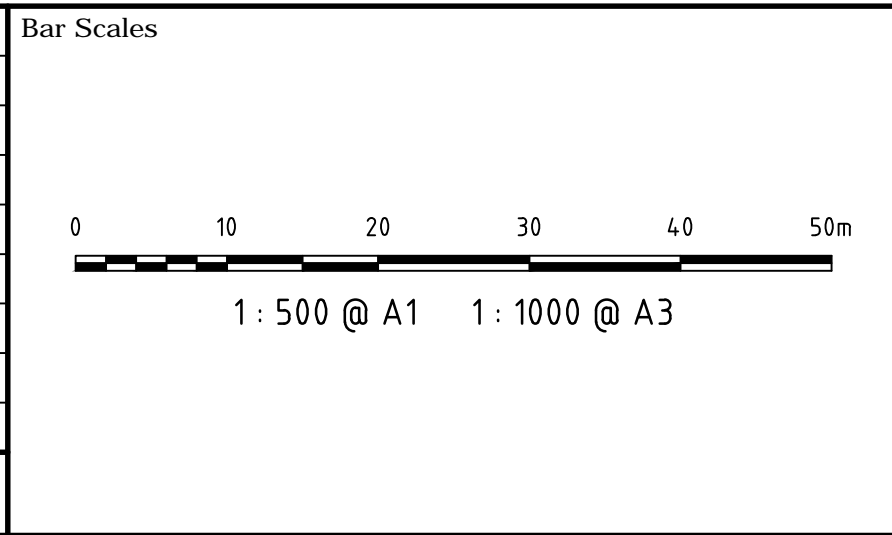
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Project	WEST WYALONG SOLAR FARM
Title	SITEWORKS AND STORMWATER DRAINAGE PLAN SHEET 31

Civil Engineers and Project Managers	
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Status	FOR APPROVAL
NOT TO BE USED FOR CONSTRUCTION	
Project - Drawing No.	18-583-C041
Issue	P2



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P1	ISSUED FOR DEVELOPMENT APPLICATION	05-12-18
Issue	Description	Date




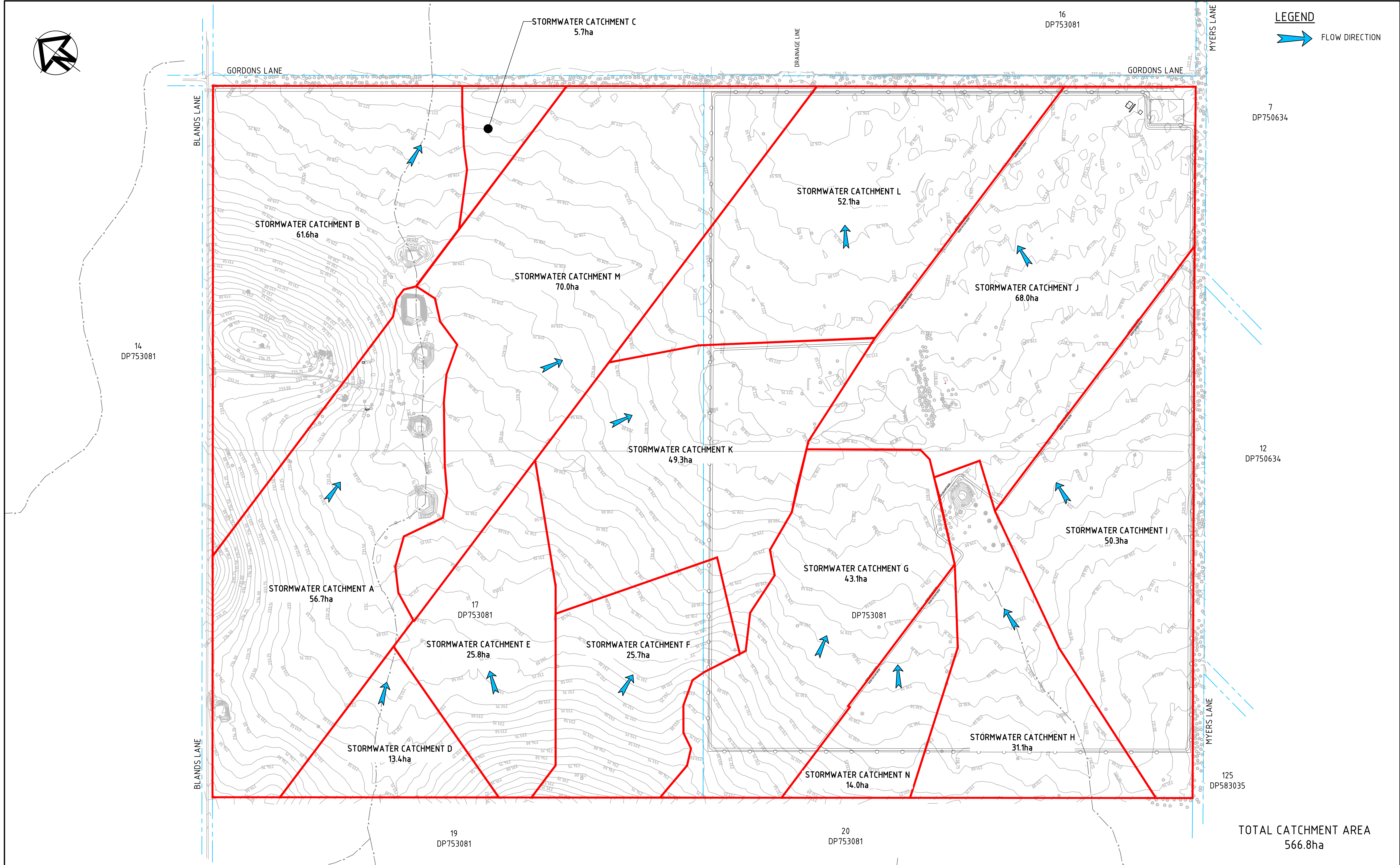
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Project		WEST WYALONG SOLAR FARM
Title		SITEWORKS AND STORMWATER DRAINAGE PLAN SHEET 32

Civil Engineers and Project Managers		
		
Level 7, 153 Walker Street North Sydney NSW 2060 ABN 96 130 882 405 Tel: 02 9439 1777 Fax: 02 9923 1055 www.atl.net.au info@atl.net.au		
Status	FOR APPROVAL	A1
Project - Drawing No.		Issue
18-583-C042		P2



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