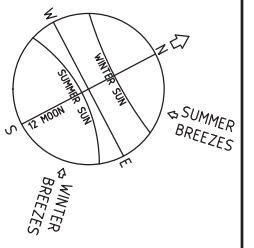


Townsville City Council
 Accepted Subject to Conditions
 OPW21/0152
 02/02/2022



LEGEND

- ALLOWABLE DRIVEWAY ACCESS
- BUILT TO BOUNDARY GARAGE AS PER QDC
- SEWER MAIN & MANHOLE
- WATER MAIN, FIRE HYDRANT & SLUICE VALVE
- STORMWATER DRAINAGE LINE
- SUBSOIL DRAIN & CLEANOUT POINT
- EXISTING SEWER MAIN & MANHOLE
- EXISTING WATER MAIN
- EXISTING STORMWATER
- BUILDING SETBACK, REFER NOTE 3
- LINK BLOCK RETAINING WALL
- EXISTING LINK BLOCK RETAINING WALL
- PREFERRED DRIVEWAY LOCATION
- ERGON CABINET

DRIVEWAY ACCESS ENVELOPE

1. FOR DRIVEWAY ACCESS ENVELOPE ALLOW 0.5m MINIMUM CLEARANCE TO ALL COUNCIL INFRASTRUCTURE, EXCEPT STORMWATER PITS WHICH REQUIRED 0.6m MINIMUM CLEARANCE AND SEWERAGE HOUSE CONNECTIONS WHICH REQUIRE 1.2m MINIMUM CLEARANCE.
2. ALL DRIVEWAYS REQUIRED A PERMIT FROM COUNCIL PRIOR TO CONSTRUCTION

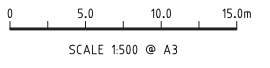
CORNER SIGHT LINES

1. COMPLY WITH SIGHT LINES REQUIREMENT OF THE QUEENSLAND AND DEVELOPMENT CODE ON ROAD CORNERS. THIS IS TYPICALLY A 9m x 9m EXCLUSION ZONE BASED ON BOUNDARIES.
2. FOR CLOPPED CORNERS AND LOTS WITH PARK FRONT AGES TYPICALLY THIS IS A 18m x 18m EXCLUSION ZONE BASED ON THE EDGE OF THE TRAFFIC LANE. REAR ACCESS LANES ARE EXEMPTED FROM THIS REQUIREMENT.

BUILDING SETBACK

1. "SETBACK" MEANS A LINE OR LINES PARALLEL TO ANY BOUNDARY OF A LOT BEYOND WHICH THE BUILDING OR OTHER STRUCTURE SHALL NOT ENCROACH, AND MEASURED AS THE SHORTEST HORIZONTAL DISTANCE FROM THE OUTERMOST PROJECTION OF THE BUILDING OR OTHER STRUCTURE TO THE VERTICAL PROJECTION OF THE LOT BOUNDARY (TOWNSVILLE CITY PLAN 2005, PAGE 491).
2. THE BUILDING ENVELOPES ARE TO COMPLY WITH THE DESIGN CODE SHOWN ON THIS PLAN. GREATER SETBACKS MAY BE REQUIRED TO ACCOMMODATE THE ZONE OF INFLUENCE OF UNDERGROUND SERVICES AS STATED IN COUNCIL'S POLICY ON BUILDING OVER OR ADJACENT TO SEWERS.
3. DIMENSIONS ARE QDC GROUND DWELLING ONLY AND DO NOT ACCOUNT FOR BATTERS OR RETAINING WALLS. A SITE INSPECTION IS REQUIRED PRIOR TO COMMENCEMENT OF DESIGN. REFER DESIGN CODE FOR UPPER FLOOR AND GARAGE SETBACKS.

LIGHT POLES & TELSTRA PITS
 HAVE NOT BEEN SHOWN



STAGE 24B

PRELIMINARY - NOT FOR CONSTRUCTION

DATE	REV	DESCRIPTION	KD REC	PP APP
15/10/21	1	ISSUED FOR OPERATIONAL WORKS APPROVAL		

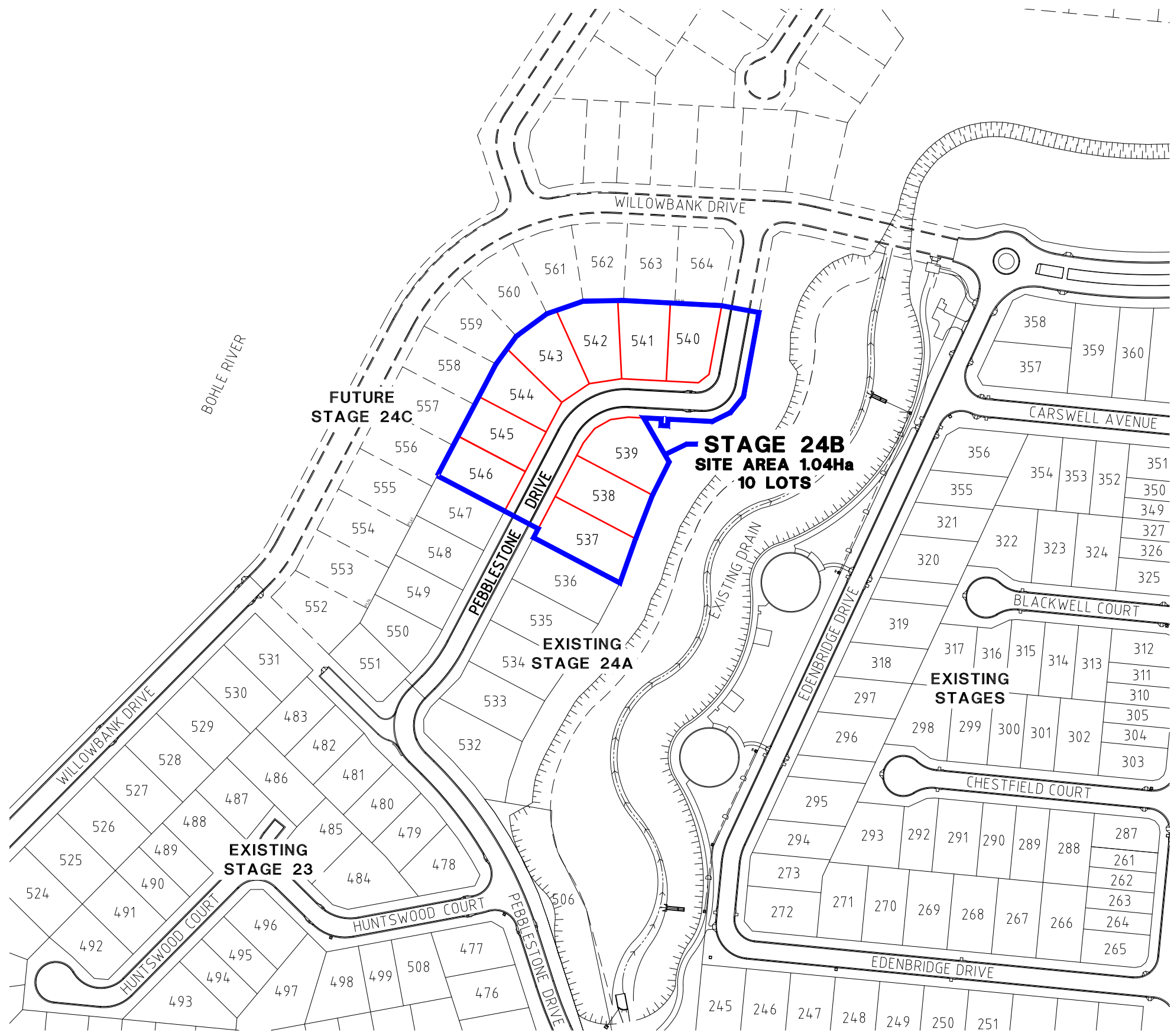
Premise
 TOWNSVILLE OFFICE
 84 DENHAM STREET
 PO BOX 1110
 TOWNSVILLE, QLD 4810
 PH: (07) 4772 0666
 WEB: www.premise.com.au

DESIGNED
 K. DE LACEY
 CHECKED
 K. DE LACEY
 PROJECT MANAGER
 P. PETERSEN
 ENGINEERING CERTIFICATION
 P. PETERSEN RPEQ 13231

SCALE
 ORIGINAL SHEET SIZE A1

CLIENT
PARKSIDE DEVELOPMENT PTY LTD
 PROJECT
WILLOWBANK ESTATE - STAGE 24B
 LOCATION
WILLOWBANK DRIVE, KIRWAN
 SHEET TITLE
BUILDING ENVELOPE & DRIVEWAY ACCESS PLAN

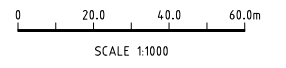
JOB CODE
PAR-0036
 SHEET NUMBER
C115
 REV
1



SITE PLAN
SCALE: 1:1000

DRAWING SCHEDULE

NO.	NAME
OPERATIONAL WORKS DRAWINGS	
512	LOCALITY PLAN, SITE PLAN & DRAWING SCHEDULE
513	EARTHWORKS LAYOUT PLAN
514	ROADWORKS & STORMWATER DRAINAGE PLAN
515	PEBBLESTONE DRIVE LONGITUDINAL AND CROSS SECTIONS
516	ROADWORKS DETAILS PLAN
517	Q2 STORMWATER LONGITUDINAL SECTIONS
518	WATER RETICULATION PLAN
519	SEWERAGE RETICULATION PLAN



No.	Date	Details	Check
A	19.08.22	Original Issue	

Level Datum: AHD (DERIVED)
 B.M. Used: PSM203102 RL.12.126
 Coordinate Projection: Plane Rectangular
 Coordinate Datum: Arbitrary
 Origin of Coordinates: E: -
 Meridian: MGA Zone 55 N: -
 Map Reference:
 Contour Interval:
 Job No: 06826-748-01
 File No: 06826_512A.dwg

Surveyed by: BM
 Drawn: MJM
 Approved:

TOWNSVILLE EARTHMOVING DO HEREBY CERTIFY THAT THE WORKS SHOWN ON THE 'AS CONSTRUCTED' DRAWINGS HAVE BEEN CONSTRUCTED IN ACCORDANCE WITH THE DRAWINGS AND CONTRACT DOCUMENTS APPROVED BY COUNCIL FOR THE CONSTRUCTION OF THE PROJECT.

AUTHORISED DELEGATE
 DATE 23/08/22

PREMISE DO HEREBY CERTIFY THAT THE WORKS AS SHOWN ON THE 'AS CONSTRUCTED' DRAWINGS REFLECT ANY CHANGES THAT WERE MADE DURING THE COURSE OF CONSTRUCTION.

22896
 RPEQ 23/08/22
 DATE

Client: **PARKSIDE DEVELOPMENT PTY LTD**

Project: **AS CONSTRUCTED - WILLOWBANK STAGE 24B
 LOCALITY PLAN, SITE PLAN & DRAWING SCHEDULE
 WILLOWBANK DRIVE, KIRWAN**

Local Authority: Townsville City Council Locality: Kirwan

Date: 19th August, 2022
 Sheet 1 of 1 Sheets
 Scale: AS SHOWN A1
 Plan No: 06826/512 A

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Original information compiled from SP280614 & SP243844 in the Department of Resources.

Peg placed at all new corners, unless otherwise stated.

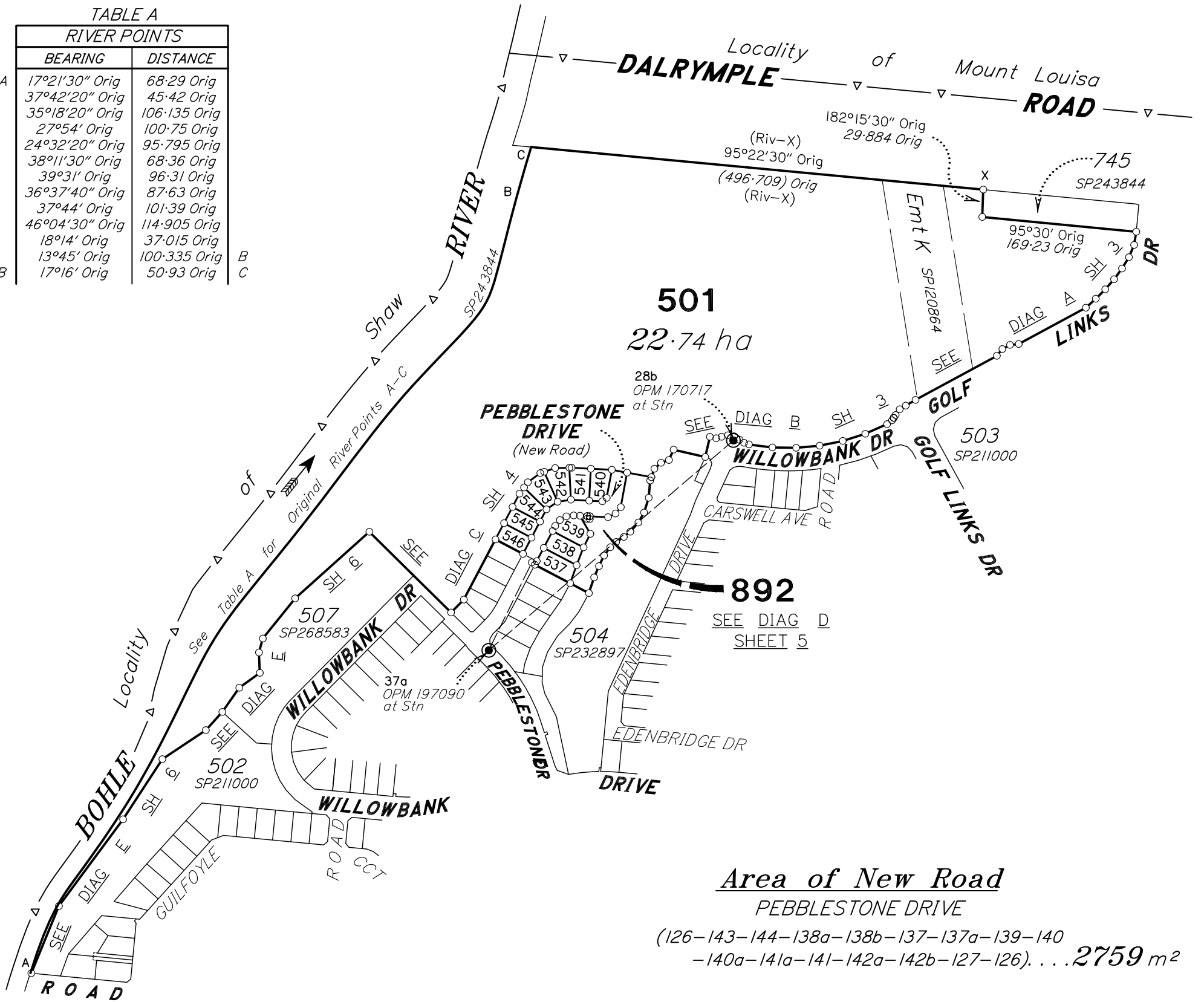
For Meridian Table See Sheet 7
For Traverse Tabulation See Sheet 7
For Reference Mark Tabulation See Sheet 7
For Permanent Mark Tabulation See Sheet 7
For MGA Coordinate Tabulation See Sheet 7

For Survey Report See Sheet 7



TABLE A
RIVER POINTS

	BEARING	DISTANCE	
A	17°21'30" Orig	68.29 Orig	
	37°42'20" Orig	45.42 Orig	
	35°18'20" Orig	106.135 Orig	
	27°54' Orig	100.75 Orig	
	24°32'20" Orig	95.795 Orig	
	38°11'30" Orig	68.36 Orig	
	39°31' Orig	96.31 Orig	
	36°37'40" Orig	87.63 Orig	
	37°44' Orig	101.39 Orig	
	46°04'30" Orig	114.905 Orig	
B	18°14' Orig	37.015 Orig	B
	13°45' Orig	100.335 Orig	B
	17°16' Orig	50.93 Orig	C
			C



BRAZIER MOTTI PTY LTD (ACN 066 411 041) hereby certify that the land comprised in this plan was surveyed by the corporation, by Sepideh RAHBAR, Surveying Graduate, for whose work the corporation accepts responsibility, under the supervision of Geoffrey Edwin OSBALDISTON, Cadastral Surveyor, and that the plan is accurate, that the said survey was performed in accordance with the Survey and Mapping Infrastructure Act 2003 and Surveyors Act 2003 and associated Regulations and Standards and that the said survey was completed on 29th August 2022.



Date 14-09-22



Plan of Lots 537-546, 501 & 892

Cancelling Lot 501 on SP280614

LOCAL TOWNSVILLE CITY
GOVERNMENT: COUNCIL

LOCALITY: KIRWAN

Meridian: MGA (Zone 55) vide CORS

Survey Records: No

Scale: 1:5000
Format: STANDARD



SP335128

State copyright reserved.

WARNING : Folded or Mutilated Plans will not be accepted.
Plans may be rolled.
Information may not be placed in the outer margins.

(Dealing No.)

4. Lodged by

(Include address, phone number, email, reference, and Lodger Code)

I. Existing		Created		
Title Reference	Description	New Lots	Road	Secondary Interests
51121550	Lot 501 on SP280614	537-546, 501 & 892	New Rd	_____

ENCUMBRANCE EASEMENT ALLOCATIONS

Easement	Lots to be Encumbered
706036844 (Emt K on SPI20864)	501

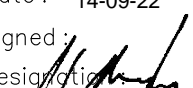
537-546, 501 & 892	Por 47
Lots	Orig

2. Orig Grant Allocation :

3. References :

Dept File :
 Local Govt :
 Surveyor : 6826/747-01 - 06826_511A.dwg - SLR - 04/22 - V0

5. Passed & Endorsed :

By : BRAZIER MOTTI PTY LTD
 Date : 14-09-22
 Signed : 
 Designation : Liaison Officer

6. Building Format Plans only.

I certify that :
 * As far as it is practical to determine, no part of the building shown on this plan encroaches onto adjoining lots or road;
 * Part of the building shown on this plan encroaches onto adjoining * lots and road

.....
 Cadastral Surveyor/Director* Date
 *delete words not required

7. Lodgement Fees :

Survey Deposit	\$
Lodgement	\$
.....New Titles	\$
Photocopy	\$
Postage	\$
TOTAL	\$

8. Insert Plan Number

SP335128

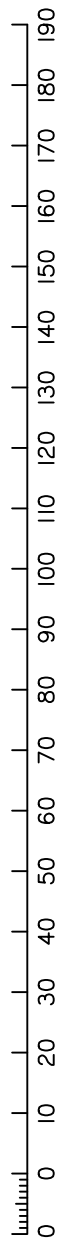
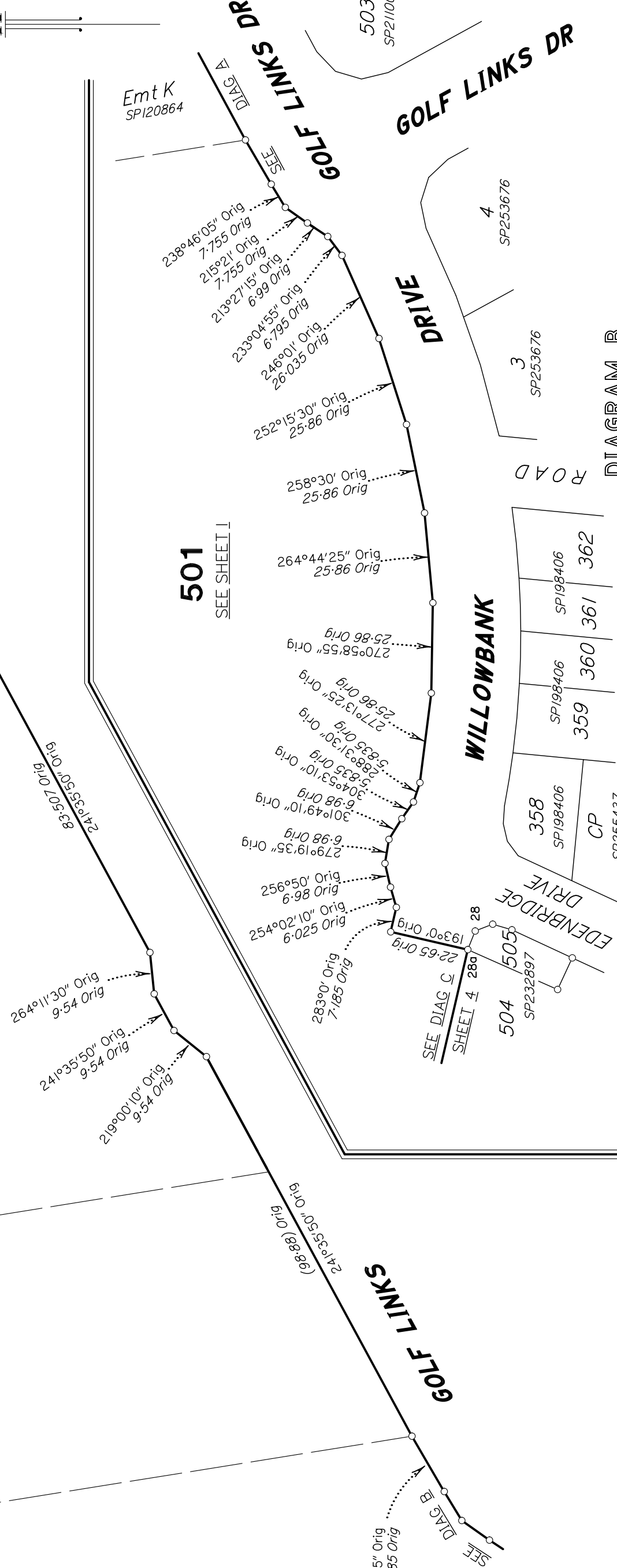
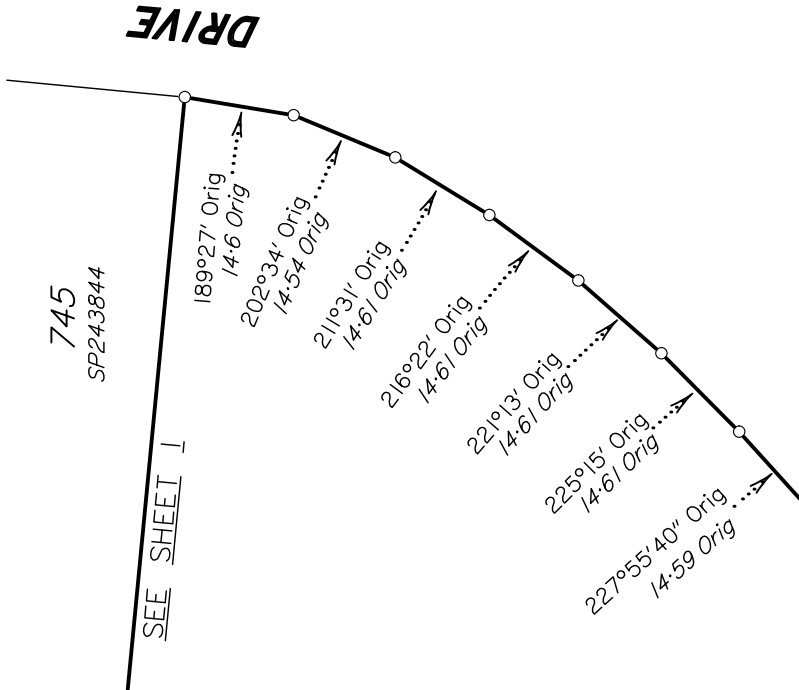


DIAGRAM A
Scale 1:1000

DIAGRAM B
Scale 1:1250

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Insert Plan Number **SP335128**



DIAGRAM F
Scale 1:500

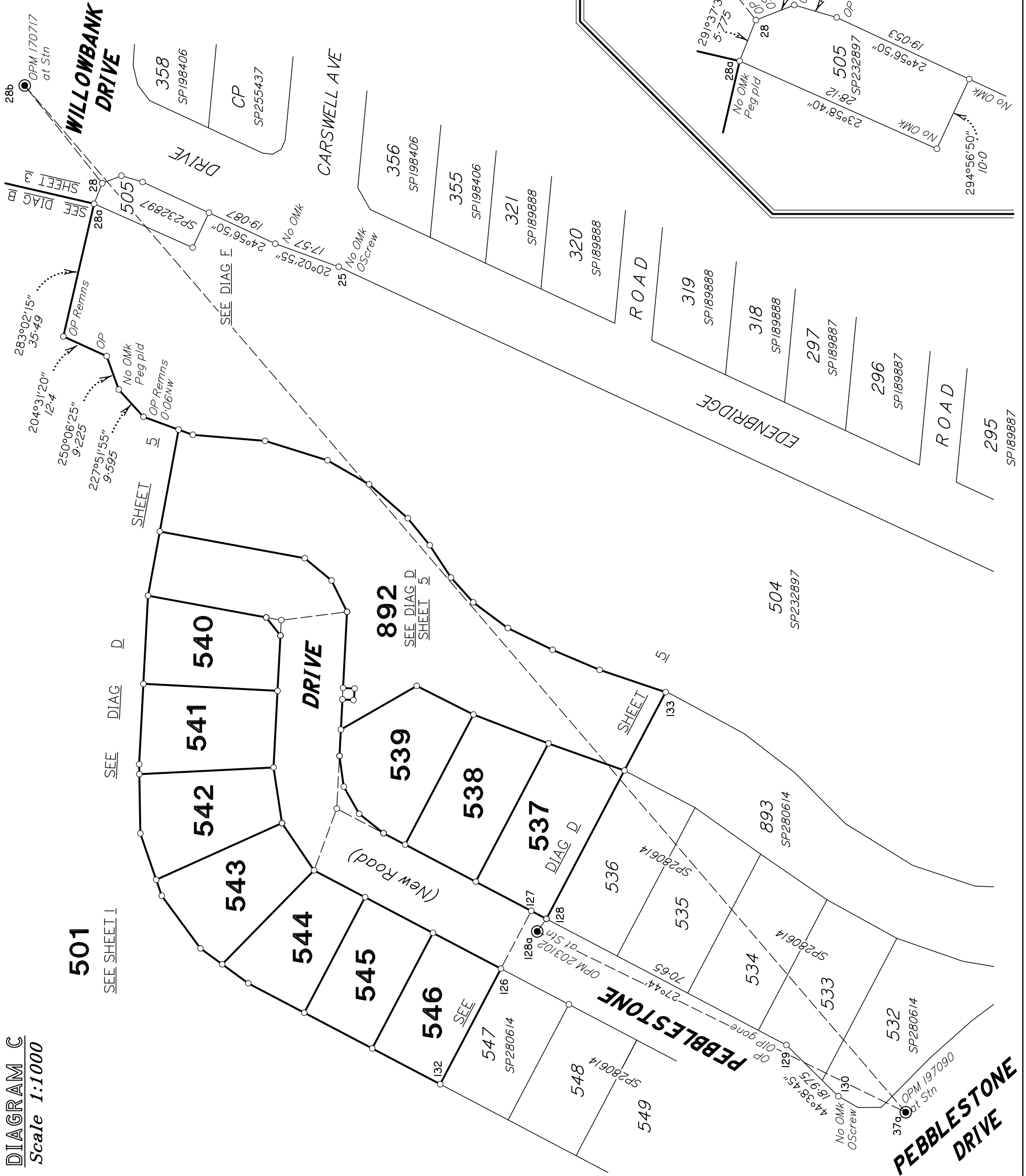


DIAGRAM C
Scale 1:1000

501

SEE SHEET I

SEE DIAG D

SHEET 5

542

541

543

544

545

546

SEE

DRIVE

(New Road)

892

SEE DIAG D
SHEET 5

539

538

537

DIAG D

PEBBLESTONE DRIVE

536

535

534

533

532

SP280614

893

SP280614

504

SP232897

PEBBLESTONE DRIVE

37°

OPM 197090 at Stn

Insert Plan Number SP335128

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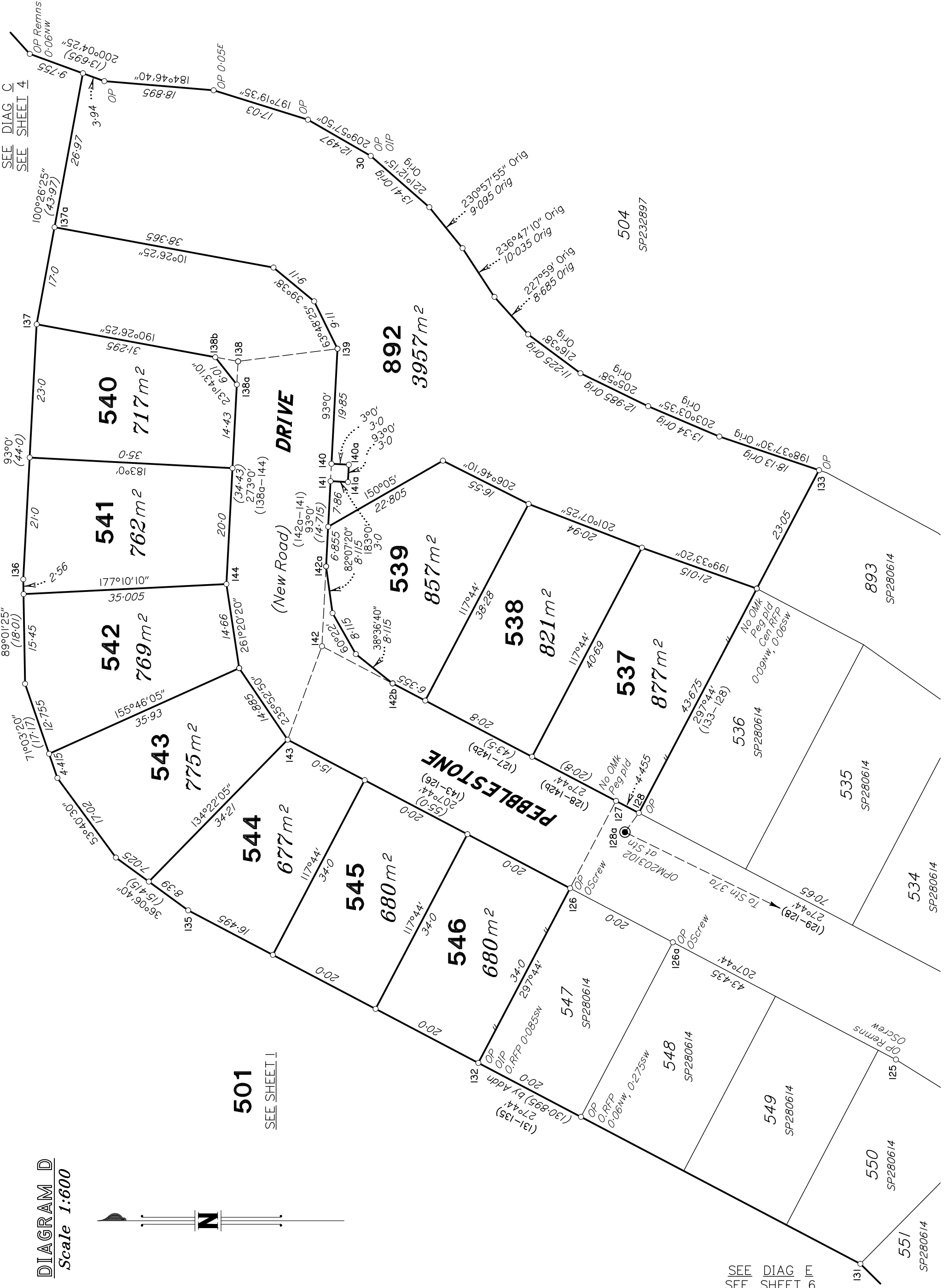


DIAGRAM D
Scale 1:600



0m 30m 50mm 60m 100mm 90m 150mm

SEE DIAG E
SEE SHEET 6

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Insert Plan Number
SP335128

Q100 LEVELS

PEBBLESTONE DRIVE	
CHAINAGE	LEVEL
280	12.26
300	12.21
320	12.16
340	12.12
360	12.11
380	12.11
400	12.11
420	12.11
440	12.11

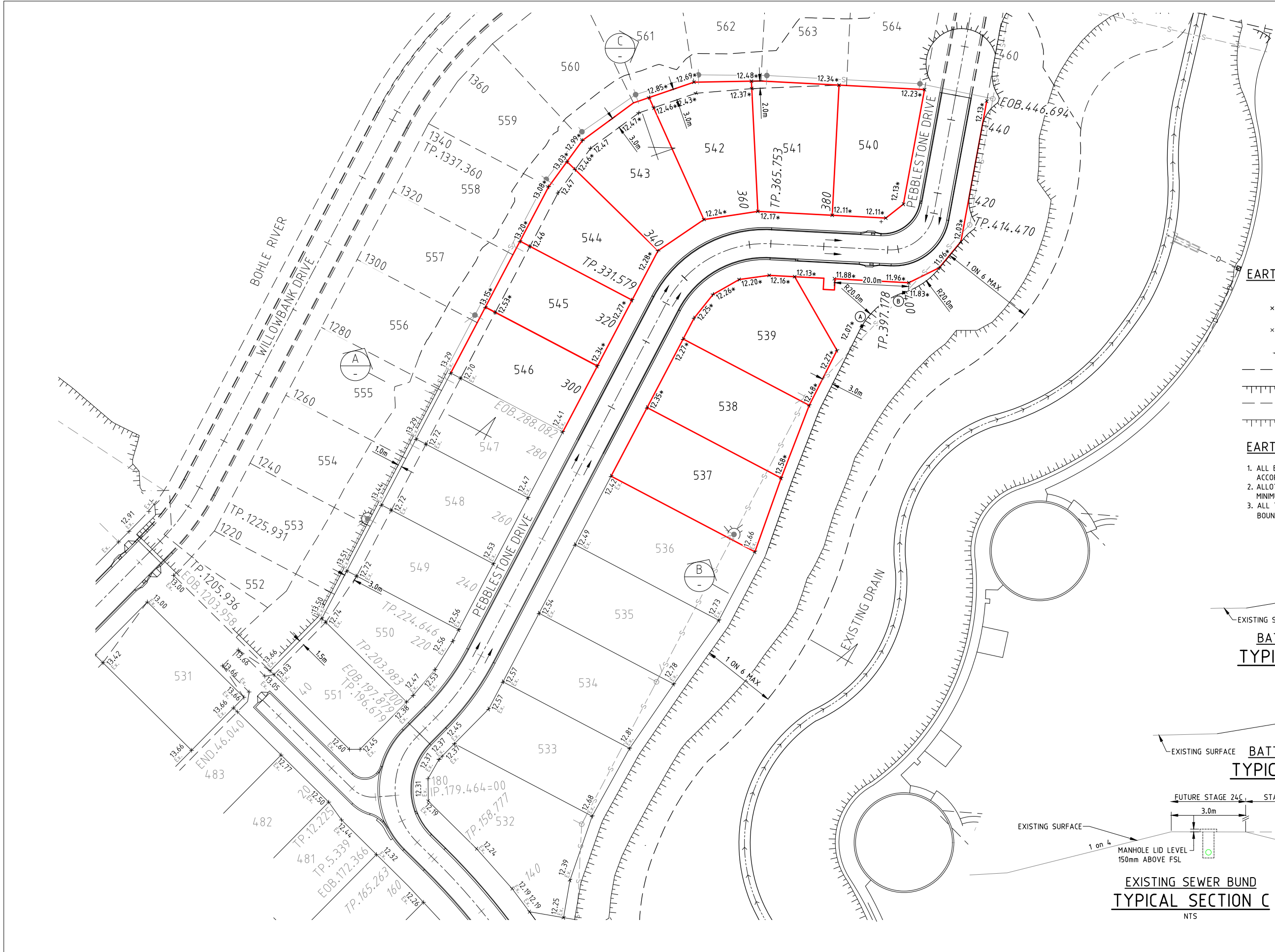
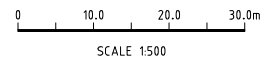
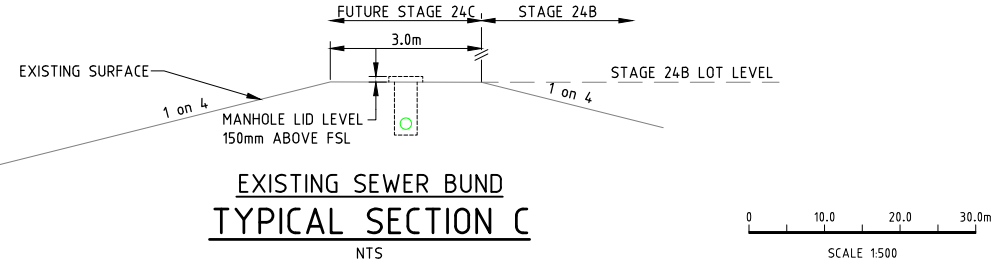
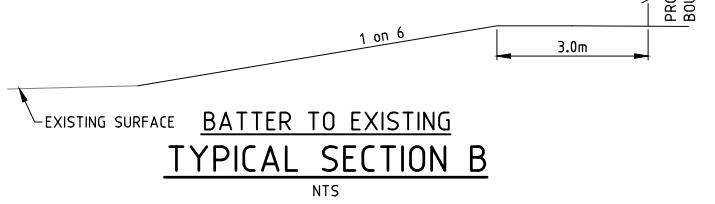
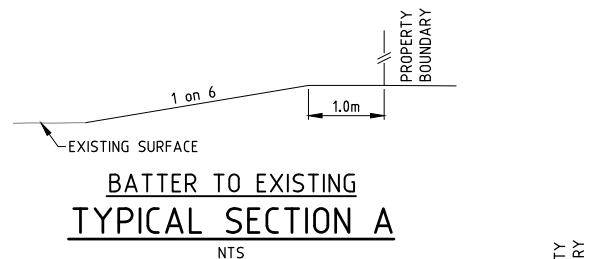


EARTHWORKS LEGEND

- × 11.85* CERTIFIED FINISHED ALLOTMENT LEVEL
- × 11.85 EXISTING ALLOTMENT LEVEL
- DIRECTION OF KERB & CHANNEL FLOW
- BOTTOM OF BATTER
- ▄ TOP OF BATTER
- EXISTING BOTTOM OF BATTER
- ▄ EXISTING TOP OF BATTER

EARTHWORKS NOTES

- ALL EARTHWORKS OPERATIONS ARE UNDERTAKEN IN ACCORDANCE WITH THE PROJECT SPECIFICATION.
- ALLOTMENTS GRADED EVENLY BETWEEN LEVELS SHOWN. MINIMUM FINISHED ALLOTMENT GRADE TO BE 1:200.
- ALL TEMPORARY FILL BATTERS EXTEND 1.0m PAST BOUNDARY AND BATTER AT 1 ON 6 TO NATURAL SURFACE U.N.O.



No.	Date	Details	Check
A	19.08.22	Original Issue	

Level Datum: AHD (DERIVED)
 B.M. Used: PSM203102 RL.12.126
 Coordinate Projection: Plane Rectangular
 Coordinate Datum: Arbitrary
 Origin of Coordinates: E:
 Meridian: MGA Zone 55 N:
 Map Reference:
 Contour Interval:
 Job No: 06826-748-01
 File No: 06826_513A.dwg

Surveyed by: BM
 Drawn: MJM
 Approved:

BRAZIER MOTTI PTY LTD (ACN 066 411 041), 595 Flinders Street, Townsville hereby certify that this Drawing accurately and correctly describes and records the nature and location of the works depicted by asterisks (*) as they have been constructed for subdivision.

Director
 Date: 23-08-2022

TOWNSVILLE EARTHMOVING DO HEREBY CERTIFY THAT THE WORKS SHOWN ON THE 'AS CONSTRUCTED' DRAWINGS HAVE BEEN CONSTRUCTED IN ACCORDANCE WITH THE DRAWINGS AND CONTRACT DOCUMENTS APPROVED BY COUNCIL FOR THE CONSTRUCTION OF THE PROJECT.

AUTHORISED DELEGATE
 DATE 23/08/22

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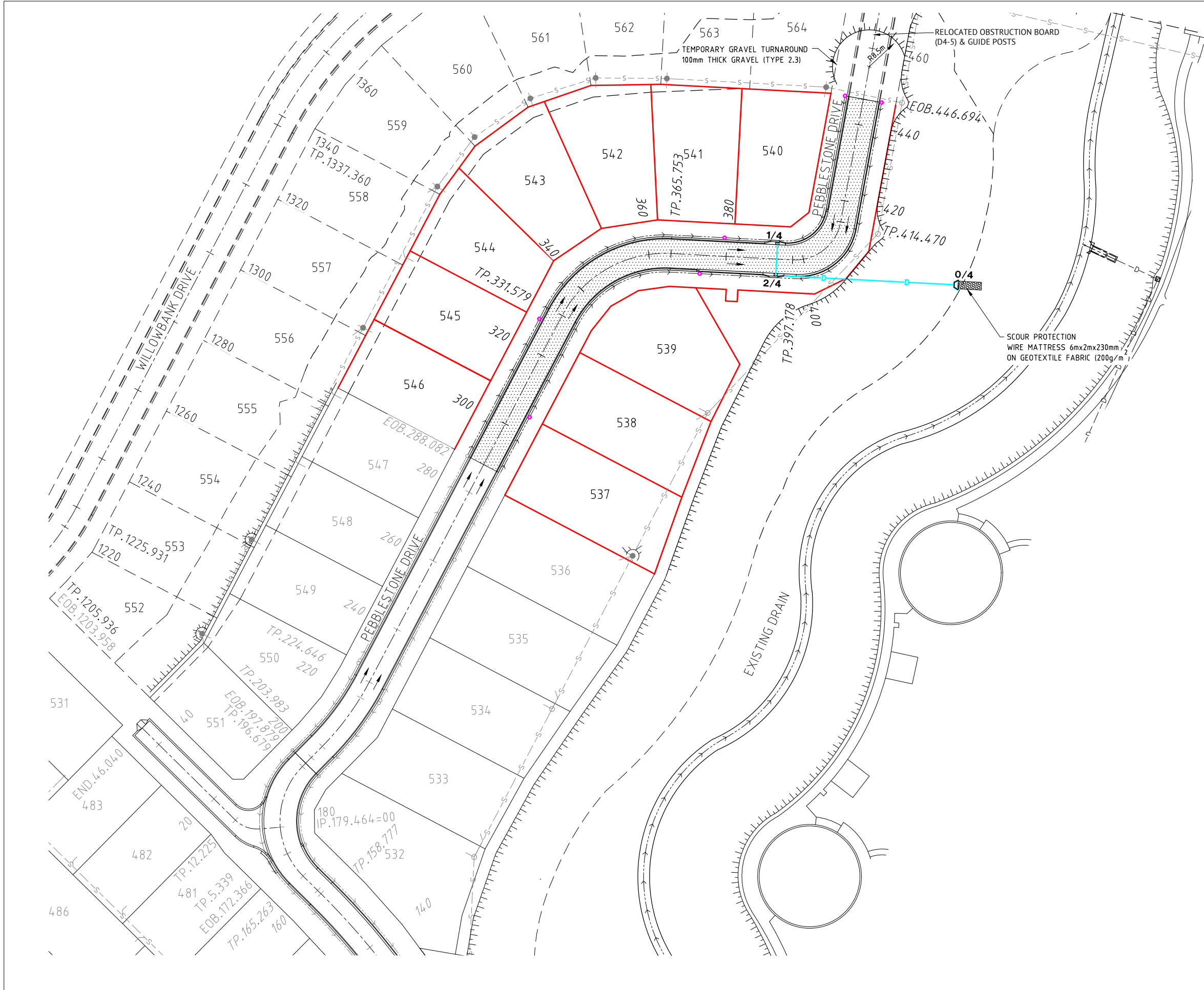
RPEQ 230822 22896
 DATE 23/08/22

Client: **PARKSIDE DEVELOPMENT PTY LTD**
 Project: **AS CONSTRUCTED - WILLOWBANK STAGE 24B
 EARTHWORKS LAYOUT PLAN
 WILLOWBANK DRIVE, KIRWAN**

Local Authority: Townsville City Council
 Locality: Kirwan

Date: 19th August, 2022
 Sheet 1 of 1 Sheets
 Scale: AS SHOWN A1
 Plan No: 06826/513 A

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STORMWATER LEGEND:

- STORMWATER DRAINAGE LINE
- 3/1 STORMWATER MANHOLE (MANHOLE NO./LINE NO.)
- 1/12 KERB INLET PIT (PIT NO./LINE NO.)
- EXISTING STORMWATER DRAINAGE LINE
- Ex.6/1 EXISTING STORMWATER MANHOLE (MANHOLE NO./LINE NO.)
- Ex.1/13 EXISTING KERB INLET PIT (PIT NO./LINE NO.)
- EXISTING SEWERAGE RETICULATION
- DUMPED ROCK SCOUR PROTECTION

STORMWATER NOTES

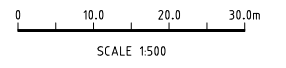
1. ALL WORKS CONSTRUCTED IN ACCORDANCE WITH RELEVANT LATEST ISSUE COUNCIL STANDARD DRAWINGS AND SPECIFICATIONS, UNLESS NOTED OTHERWISE.
2. FOR STORMWATER LEVELS, PIPE LENGTHS, PIPE CLASS AND STRUCTURE TYPES, REFER STORMWATER LONGITUDINAL DRAWINGS.
3. ALL PIPE AND BOX CULVERT CUTS MADE USING A MASONRY SAW.
4. ALL TRENCHES UNDER ROAD PAVEMENT (INCLUDING FUTURE) BACKFILLED WITH CRUSHER DUST TO SUBGRADE LEVEL. REFER PROJECT SPECIFICATION FOR COMPACTION AND COMPLIANCE TESTING REQUIREMENTS.
5. REFER DETAIL ON ROADWORKS DETAILS PLAN FOR TYPICAL SUBSURFACE DRAINAGE TO STORMWATER MANHOLES.
6. FOR STORMWATER KERB INLET TRANSITION DETAILS, REFER ROADWORKS DETAILS PLAN.

ROADWORKS LEGEND

- LAYBACK KERB AND CHANNEL (TYPE L1)
- BARRIER KERB AND CHANNEL (TYPE B1)
- DIRECTION OF KERB & CHANNEL FLOW
- SUBSOIL DRAIN & CLEANOUT POINT
- 30mm THICK ASPHALT REFER PAVEMENT DESIGN FOR DETAILS

ROADWORKS NOTES

1. ALL WORKS CONSTRUCTED IN ACCORDANCE WITH RELEVANT LATEST ISSUE COUNCIL STANDARD DRAWINGS AND SPECIFICATIONS, UNLESS NOTED OTHERWISE.
2. FOR ROAD GRADING, LEVELS AND TYPICAL SECTIONS, REFER ROAD LONGITUDINAL/CROSS SECTION AND ROADWORKS DETAILS DRAWINGS.
3. FOR SUBSOIL DRAIN DETAILS, REFER TO ROADWORKS DETAILS PLAN.
4. ALL SUBSOIL DRAINS GRADED AT MINIMUM 0.5% FROM HIGH POINT TO OUTLET, UNLESS NOTED OTHERWISE.



No.	Date	Details	Check
A	19.08.22	Original Issue	

Level Datum: AHD (DERIVED)
 B.M. Used:
 Coordinate Projection:
 Coordinate Datum:
 Origin of Coordinates: E:
 Meridian: MGA Zone 55 N:
 Map Reference:
 Contour Interval:
 Job No: 06826-748-01
 File No: 06826_514A.dwg
 Surveyed by: BM
 Drawn: MJM
 Approved:

BRAZIER MOTTI PTY LTD (ACN 066 411 041), 595 Flinders Street, Townsville hereby certify that this Drawing accurately and correctly describes and records the nature and location of the works depicted by asterisks and they have been constructed for subdivision.

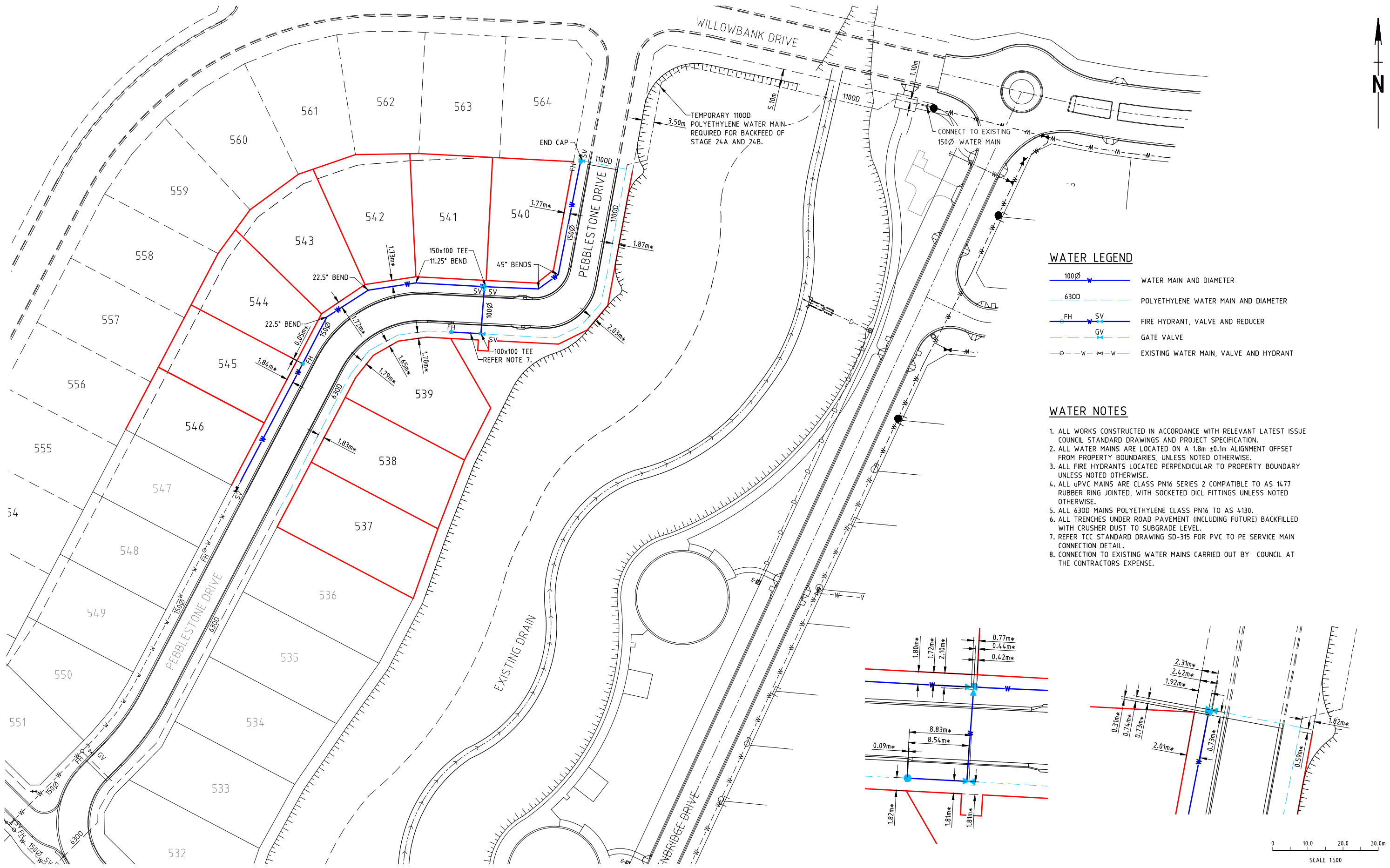
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 AUTHORISED DELEGATE
 DATE 23/08/22

PREMISE DO HEREBY CERTIFY THAT THE WORKS AS SHOWN ON THE 'AS CONSTRUCTED' DRAWINGS REFLECT ANY CHANGES THAT WERE MADE DURING THE COURSE OF CONSTRUCTION.
 RPEQ 2308/22
 DATE 23/08/22
 22896

Client: PARKSIDE DEVELOPMENT PTY LTD
 Project: AS CONSTRUCTED - WILLOWBANK STAGE 24B ROADWORKS & STORMWATER DRAINAGE PLAN WILLOWBANK DRIVE, KIRWAN
 Local Authority: Townsville City Council
 Locality: Kirwan

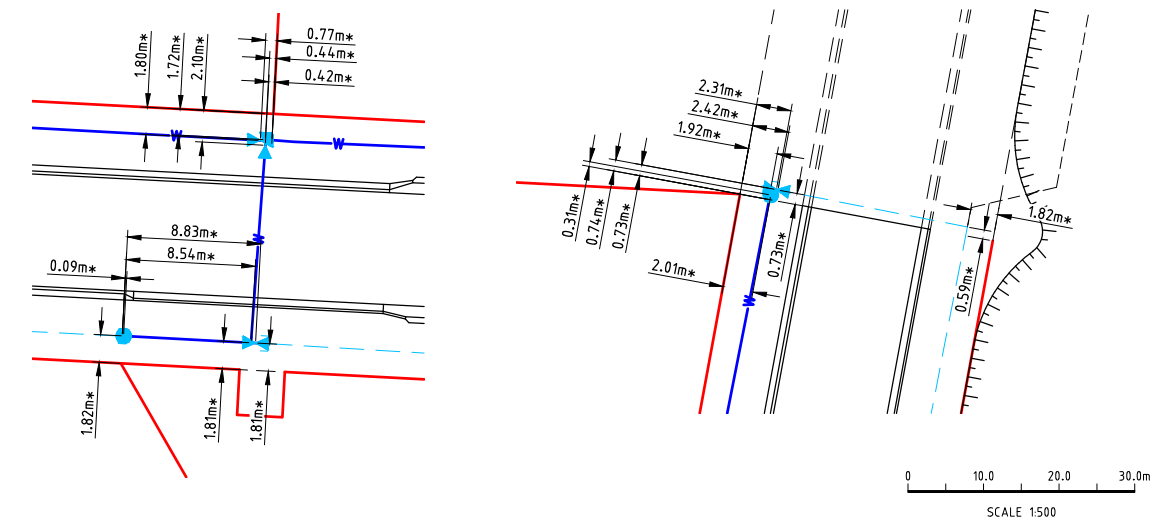
Date: 19th August, 2022
 Sheet 1 of 1 Sheets
 Scale: AS SHOWN
 Plan No: 06826/514 A
 Local Authority: Townsville City Council
 Locality: Kirwan



WATER LEGEND

- 100Ø WATER MAIN AND DIAMETER
- 630Ø POLYETHYLENE WATER MAIN AND DIAMETER
- FIRE HYDRANT, VALVE AND REDUCER
- VALVE
- GATE VALVE
- EXISTING WATER MAIN, VALVE AND HYDRANT

- WATER NOTES**
1. ALL WORKS CONSTRUCTED IN ACCORDANCE WITH RELEVANT LATEST ISSUE COUNCIL STANDARD DRAWINGS AND PROJECT SPECIFICATION.
 2. ALL WATER MAINS ARE LOCATED ON A 1.8m ±0.1m ALIGNMENT OFFSET FROM PROPERTY BOUNDARIES, UNLESS NOTED OTHERWISE.
 3. ALL FIRE HYDRANTS LOCATED PERPENDICULAR TO PROPERTY BOUNDARY UNLESS NOTED OTHERWISE.
 4. ALL uPVC MAINS ARE CLASS PN16 SERIES 2 COMPATIBLE TO AS 1477 RUBBER RING JOINTED, WITH SOCKETED DICL FITTINGS UNLESS NOTED OTHERWISE.
 5. ALL 630D MAINS POLYETHYLENE CLASS PN16 TO AS 4130.
 6. ALL TRENCHES UNDER ROAD PAVEMENT (INCLUDING FUTURE) BACKFILLED WITH CRUSHER DUST TO SUBGRADE LEVEL.
 7. REFER TCC STANDARD DRAWING SD-315 FOR PVC TO PE SERVICE MAIN CONNECTION DETAIL.
 8. CONNECTION TO EXISTING WATER MAINS CARRIED OUT BY COUNCIL AT THE CONTRACTORS EXPENSE.



No.	Date	Details	Check
A	19.08.22	Original Issue	

Level Datum: AHD (DERIVED)
 B.M. Used: PSM203102 RL.12.126
 Coordinate Projection: Plane Rectangular
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 Map Reference:
 Contour Interval:
 Job No: 06826-748-01
 File No: 06826_518A.dwg

Surveyed by: BM
 Drawn: MJM
 Approved:

BRAZIER MOTTI PTY LTD (ACN 066 411 041), 595 Flinders Street, Townsville hereby certify that this Drawing accurately and correctly describes and records the nature and location of the works depicted by asterisks (*) as they have been constructed for subdivision.

Director
 Date: 23-08-2022

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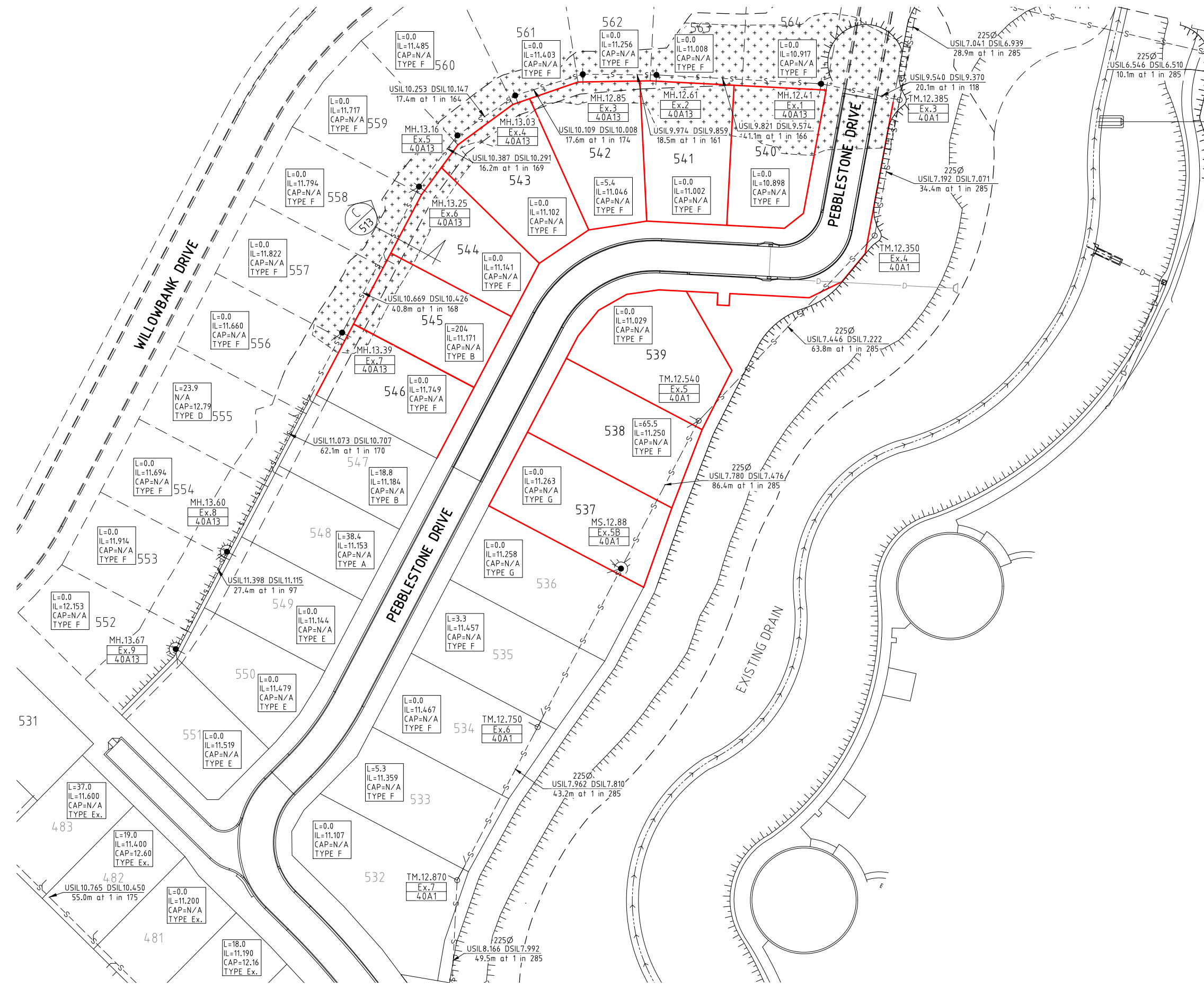
RPEQ 22896
 DATE 23/08/22

Client: **PARKSIDE DEVELOPMENT PTY LTD**
 Project: **AS CONSTRUCTED - WILLOWBANK STAGE 24B WATER RETICULATION PLAN WILLOWBANK DRIVE, KIRWAN**

Local Authority: Townsville City Council
 Locality: Kirwan

Date: 19th August, 2022
 Sheet 1 of 1 Sheets
 Scale: AS SHOWN
 Plan No: 06826/518 A

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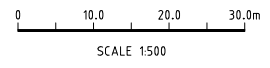


SEWER LEGEND

- EZI PIT WITH TYPE G HOUSE CONNECTION
- EXISTING SEWER MAIN AND MANHOLE
- STORMWATER DRAINAGE LINE
- SEWER BUND EXTENTS BUILT AS PART OF 24A
- MANHOLE TYPE AND MANHOLE RL
MANHOLE NUMBER
LINE NUMBER
- HOUSE CONNECTION (X&Y DIMENSIONS AS PER RELEVANT COUNCIL STANDARD DRAWING U.N.O.)
- DISTANCE FROM DOWNSTREAM MANHOLE
INVERT LEVEL OF HOUSE CONNECTION POINT
LEVEL OF CAP FOR 'TYPE D' CONNECTION
HOUSE CONNECTION TYPE
TYPE A - ACROSS BOUNDARY 'SLOPE DROP'
TYPE B - ACROSS BOUNDARY 'JUMP UP'
TYPE C - WITHIN LOT 'DIRECT CONNECTION'
TYPE D - WITHIN LOT 'JUMP UP'
TYPE E - MANHOLE 'DIRECT CONNECTION'
TYPE F - MANHOLE 'INTERNAL DROP'
TYPE G - 100mm dia. POLY PIT CONNECTION
TYPE Ex. - EXISTING HOUSE CONNECTION

SEWER NOTES

1. ALL WORKS CONSTRUCTED IN ACCORDANCE WITH RELEVANT LATEST ISSUE COUNCIL STANDARD DRAWINGS AND PROJECT SPECIFICATION
2. ALL SEWERAGE MAINS LOCATED ON 1.5m ±0.1m ALIGNMENT OFFSET FROM THE PROPERTY BOUNDARIES, UNLESS NOTED OTHERWISE.
3. ALL SEWERAGE MAINS DN150, UNLESS NOTED OTHERWISE.
4. ALL DN150 AND DN225 SEWERAGE MAINS uPVC DWV SN8, UNLESS NOTED OTHERWISE.
5. ALL DN100 HOUSE DRAINS uPVC DWV SN10, UNLESS NOTED OTHERWISE. (MAXIMUM LENGTH 10.0m)
6. ALL TRENCHES UNDER ROAD PAVEMENT (INCLUDING FUTURE) BACKFILLED WITH CRUSHER DUST TO SUBGRADE LEVEL.
7. CONNECTION/ALTERATIONS TO EXISTING SEWERAGE INFRASTRUCTURE CARRIED OUT BY COUNCIL AT THE CONTRACTORS EXPENSE.
8. ALL MANHOLE INTERNAL DROP 'CORES' ARE NOT LOCATED WITHIN 150mm OF PRECAST WALL JOINTS.
9. TOP OF MANHOLE LEVELS PROVIDED ARE INDICATIVE. REFER TCC STANDARD DRAWING SD-475 FOR FINISHED LEVELS OF MANHOLE COVERS.



No.	Date	Details	Check
A	19.08.22	Original Issue	

Level Datum: AHD (DERIVED)
 B.M. Used: PSM203102 RL.12.126
 Coordinate Projection: Plane Rectangular
 Coordinate Datum: Arbitrary
 Origin of Coordinates: E: -
 Meridian: MGA Zone 55 N: -
 Map Reference:
 Contour Interval:
 Job No: 06826-748-01
 File No: 06826_519A.dwg

Surveyed by: BM
 Drawn: MJM
 Approved:

TOWNSVILLE EARTHMOVING DO HEREBY CERTIFY THAT THE WORKS SHOWN ON THE 'AS CONSTRUCTED' DRAWINGS HAVE BEEN CONSTRUCTED IN ACCORDANCE WITH THE DRAWINGS AND CONTRACT DOCUMENTS APPROVED BY COUNCIL FOR THE CONSTRUCTION OF THE PROJECT.

AUTHORISED DELEGATE
 DATE 23/08/22

PREMISE DO HEREBY CERTIFY THAT THE WORKS AS SHOWN ON THE 'AS CONSTRUCTED' DRAWINGS REFLECT ANY CHANGES THAT WERE MADE DURING THE COURSE OF CONSTRUCTION.

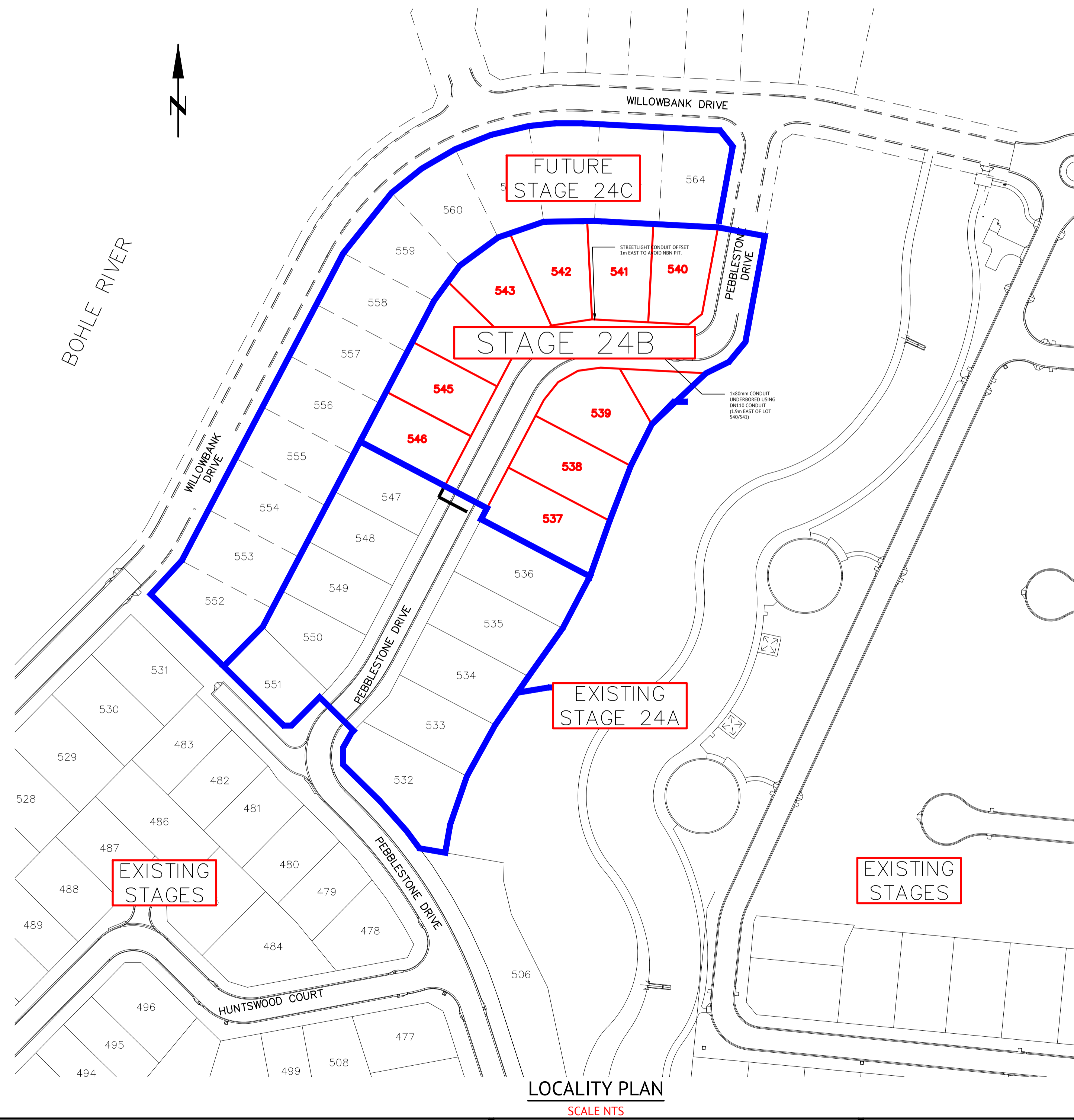
22896
 RPEQ 23/08/22
 DATE

Client:	PARKSIDE DEVELOPMENT PTY LTD
Project:	AS CONSTRUCTED - WILLOWBANK STAGE 24B SEWERAGE RETICULATION PLAN WILLOWBANK DRIVE, KIRWAN
Local Authority:	Townsville City Council
Locality:	Kirwan

Date:	19th August, 2022
Sheet	1 of 1 Sheets
Scale:	AS SHOWN
Plan No:	06826/519 A

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 SURVEYING
 TOWNPLANNING
 PROJECTMANAGEMENT
 MAPPING&GIS

WILLOWBANK ESTATE - STAGE 24B FOR PARKSIDE DEVELOPMENT PTY LTD



LOCALITY PLAN
SCALE NTS

ON COMPLETION, CLEARLY MARK UP THIS DRAWING WITH ANY CHANGES AND RETURN TO PREMISE.

CHANGES: YES/NO

ELECTRICAL CONTRACTOR
NAME: DOWNER GROUP
SIGNATURE: PAUL LANGTREE
DATE: 12-08-22

CIVIL CONTRACTOR
NAME: TOWNSVILLE EARTH MOVING
SIGNATURE: MICHAEL BROSNAN
DATE: 12-08-22

LIGHTING DESIGN COMPLIANCE CERTIFICATE

THIS LIGHTING DESIGN COMPLIES WITH THE NOMINATED CATEGORIES OF AS1158.3.1:2020

LIGHTING CATEGORY: PR5

LUMINAIRE DETAILS: SLEDGL0167A
MANUFACTURER & MODEL: Gerard Lighting StreetLED MK III 17 W
TYPE & WATTAGE: 17W LED 4000K STREET OPTIC I-TABLE
INITIAL LUMENS: StreetLED3 17W 4K 180804PH 2078

COMPUTER DESIGN DETAILS
AS/NZS 1158.2: 2020
COMPLIANT SOFTWARE: AGI32 VER.19.11
SOURCE OF PROGRAM: LIGHTING ANALYSTS INC

MAINTENANCE FACTOR: 0.8 - BASED ON 36 MTH CLEANING

I MATTHEW MORICONI OF PREMISE AUSTRALIA PTY LTD BEING THE DEVELOPER'S ELECTRICAL DESIGNER FOR THE ABOVE PROJECT DO HERBY CERTIFY THAT ERGON ENERGY'S REQUIREMENTS IN ACCORDANCE WITH RSD01, STANDARD SPECIFICATION UDC DESIGN HAVE BEEN COMPLETED, INCLUDING THE FOLLOWING:

(i) ALL NECESSARY APPROVALS HAVE BEEN OBTAINED AND OTHER AUTHORITIES NOTIFIED.

(ii) REQUIRED DESIGN MATERIAL HAS BEEN SUBMITTED USE OF

(iii) ERGON ENERGY CURRENT STANDARD CONSTRUCTION DETAILS IN ACCORDANCE WITH THE UNDERGROUND CONSTRUCTION MANUAL, LIGHTING CONSTRUCTION MANUAL & OVERHEAD CONSTRUCTION MANUAL, AS APPLICABLE (EXCEPT AS DIRECTED OR AGREED IN WRITING BY ERGON ENERGY)

DESIGN SIGN-OFF
COMPANY NAME: PREMISE AUSTRALIA PTY LTD
DESIGNER: MATTHEW MORICONI

DESIGN SIGNATURE:

RPEQ CERTIFICATION
COMPANY NAME: PREMISE AUSTRALIA PTY LTD
RPEQ NAME: MATTHEW MORICONI
RPEQ No.: 23476
DATE: 13-05-22

RPEQ SIGNATURE:

EXISTING SERVICES

ALL EXISTING SERVICES ARE TO BE LOCATED BY THE CONTRACTOR THROUGH CONTACTING THE RELEVANT SERVICE AUTHORITY PRIOR TO THE COMMENCEMENT OF ANY WORK

PATHWAY LIGHTING CERTIFIED TO COMPLY WITH AS/NZS 1158.3.1:2020 FOR 'P' CATEGORY FOR LUMINAIRES SUPPLIED UNDER CONTRACT. THE LIGHTING DESIGN IS BASED UPON THE FOLLOWING MAINTENANCE SCHEDULE:

- LUMINAIRES REPLACEMENT AT 50,000 HRS
- 36 MONTH INTERVALS INCL. CLEANING & INSPECTION OF LUMINAIRE.
- VEGETATION TO BE KEPT CLEAR OF LUMINAIRES.
- INSPECTION PATROLS & SPOT LUMINAIRE REPLACEMENT TO MAINTAIN SERVICE AVAILABILITY AT MIN. 95%
- LUMINAIRES TO BE REPLACED WITH EXACT EQUIVALENTS.

WILLOWBANK ESTATE STAGE 24B

MATTHEW MORICONI RPEQ No. 23476

MAINTENANCE FACTOR ASSUMED:
THE MAINTENANCE FACTOR ASSUMED IN THE CALCULATIONS IS AS FOLLOWS:

LUMINAIRE MAINTENANCE FACTOR (REFER AS 1158.3.1:2020 APPENDIX E).
LAMP LUMEN DEPRECIATION FACTOR (REFER LAMP MANUFACTURER'S "LAMP LUMIN DEPRECIATION CURVES").
MAINTENANCE FACTOR CALCULATED: (0.8)

SCHEDULE OF MAINTENANCE:
THIS PATHWAY LIGHTING DESIGN IS BASED ON THE FOLLOWING MAINTENANCE SCHEDULE.

BULK LUMINAIRE REPLACEMENT CARRIED OUT AT 50,000 HOUR RUNTIME INTERVALS. ALL OPTICAL SURFACES, BOTH INTERNAL AND EXTERNAL, OF THE LUMINAIRE SHALL BE CLEANED AT A MINIMUM EVERY 36 MONTHS.
ALL GASKETS SHALL BE CHECKED FOR DETERIORATION AND REPLACED WHERE NECESSARY.
DAMAGED/WEATHERED VISORS SHALL BE REPLACED.
ALL ACCESSIBLE SCREWS, NUTS ETC... SHALL BE CHECKED FOR TIGHTNESS.
A VISUAL CHECK SHALL BE MADE OF THE ELECTRICAL COMPONENTS AND WIRING FOR SIGNS OF OVERHEATING.
IF REQUIRED, THE LUMINAIRE SHALL BE REALIGNED/ADJUSTED TO THE DESIGN SPECIFICATION.

ELECTRICAL SERVICES DRAWING SCHEDULE

SHEET NUMBER	SHEET TITLE
E001	COVER PAGE, LOCATION PLAN, NOTES AND DRAWING SCHEDULE
E002	ELECTRICAL LAYOUT PLAN, SCHEDULES AND NOTES
E003	SCHEMATICS, SCHEDULES AND LEGENDS

ERGON WRN: 1722471

AS-BUILT

DATE	REV	DESCRIPTION	NRF	MM
18-08-22	C	AS-BUILT	NRF	MM
13-05-22	B	ELECTRICAL RETICULATION CERTIFICATE	NRF	MM
21-01-22	A	CONSTRUCTION ISSUE	NRF	MM
			REC	APP

REVISIONS

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84 DENHAM STREET
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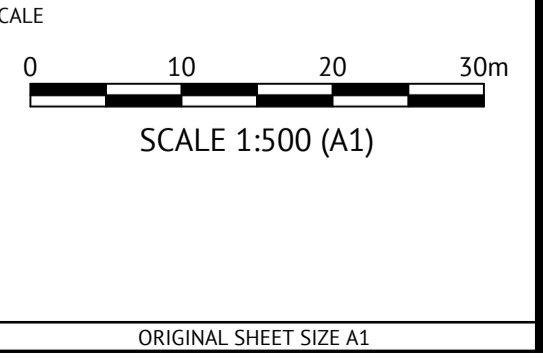
DESIGNED
M. MORICONI

CHECKED
M. MORICONI

PROJECT MANAGER
P. PETERSON

ENGINEERING CERTIFICATION

M.MORICONI RPEQ: 23476



CLIENT: PARKSIDE DEVELOPMENT PTY LTD

PROJECT: WILLOWBANK ESTATE STAGE 24B

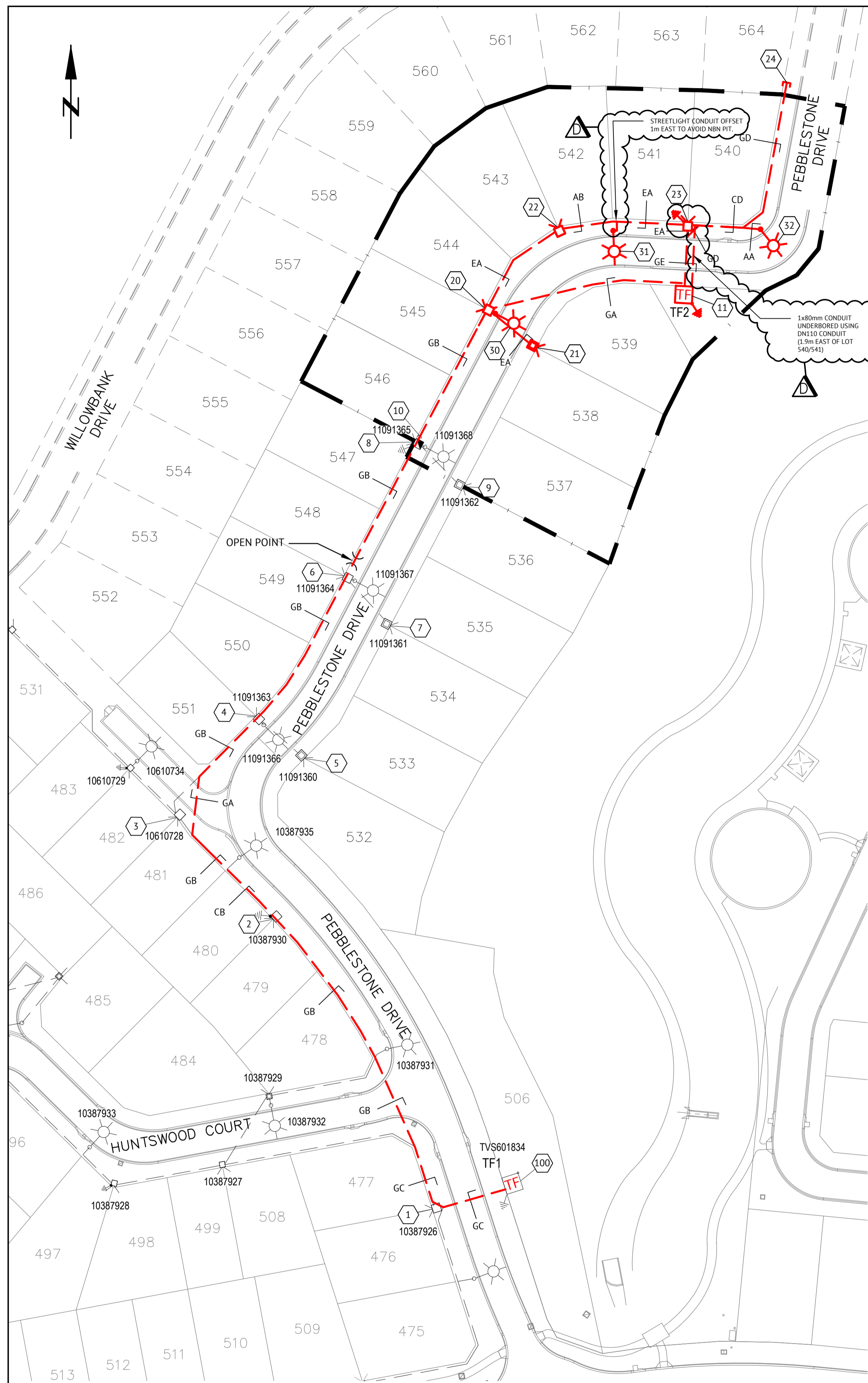
LOCATION: WILLOWBANK, KIRWAN

SHEET TITLE: COVER PAGE, LOCATION PLAN, NOTES AND DRAWING SCHEDULE

JOB CODE: PAR-0036

SHEET NUMBER	REV
E001	C

SHEET 001 OF 003



STAGE 24B LAYOUT

ERGON WORKS SCHEDULE						
STATION NUMBER	SITE LABEL	ACTION	CONSTRUCTION CLASS	CONSTRUCTION CODE	DRG NO.	REMARKS
100	TVS601834	INSTALL - ERGON	11kV FBX PADMOUNTED SUBSTATION CABLE TERMINATION 185mm ² INSECT PROTECTED	11PM/CTC/FBX/185TI	5270	ERGON TO INSERT AND TERMINATE HV CABLES IN EXISTING PADMOUNT AT STATION 100
8	11091365	EXISTING - ERGON	LINKING PILLAR - 2 WAY 4 CORE CABLE INSECT PROTECTED	LVPL2/6/240I/N	5042	ERGON TO TERMINATE IN EXISTING PILLAR AT STATION 8

CONSTRUCTION SCHEDULE						
STATION NUMBER	SITE LABEL	ACTION	CONSTRUCTION CLASS	CONSTRUCTION CODE	DRG NO.	REMARKS
11	12514364	INSTALL - ELEC	315kVA - FRONT ENTRY TYPE WITH LV SWITCHGEAR AND ABB SAFELINK 2, 2 SW, 1 FUSE - CONSTRUCTION	PM11/315/ASL2 2S1F	5388	
11		INSTALL - ELEC	11kV PADMOUNT SUBSTATION FRONT ENTRY TYPE UNICULVERT FOUNDATION DETAILS WITH BASE SLAB	PMF11US	5005	
11		INSTALL - ELEC	11kV PADMOUNTED SUBSTATION COMMON EARTHING	EPM11/COM	5013	
11		INSTALL - ELEC	11kV ABB SAFELINK RMU FREESTANDING 185mm ² IP TRIPLEX CABLE TERMINATION & CONNECTION	11CTC/ASL/185TI	5244	
11		INSTALL - ELEC	L.V. SWITCHGEAR CONNECTION CABLE TERMINATION 4 CORE XLPE 240mm ²	LVCTPM11/240	5087	
20	12514294	INSTALL - ELEC	SUPPLY PILLAR - 2 WAY 4 CORE CABLE INSECT PROTECTED + S/L	LVPN2/6S/240I/N	5026	
21	12514295	INSTALL - ELEC	CROSS ROAD PILLAR - 4 CORE 16mm ² CABLE INSECT PROTECTED	LVPX/6/16CUI/N	5041	
22	12514296	INSTALL - ELEC	SUPPLY PILLAR - 2 WAY 4 CORE CABLE INSECT PROTECTED + S/L	LVPN2/6S/240I/N	5026	
23	12514297	INSTALL - ELEC	SUPPLY PILLAR - 2 WAY 4 CORE CABLE INSECT PROTECTED + S/L	LVPN2/6S/240I/N	5026	
23	12514297	INSTALL - ELEC	MEN EARTHING PILLAR	EMEN/PIL	5085	
30	12514298	INSTALL - ELEC	BPM STEEL POLE / FOUNDATION SINGLE 1.5m OUTREACH - CAST IN SITU FOUNDATION	SLBPM75/1/15CI	1-6-4-1	
31	12514299	INSTALL - ELEC	BPM STEEL POLE / FOUNDATION SINGLE 1.5m OUTREACH - CAST IN SITU FOUNDATION	SLBPM75/1/15CI	1-6-4-1	
32	12514300	INSTALL - ELEC	BPM STEEL POLE / FOUNDATION SINGLE 1.5m OUTREACH - CAST IN SITU FOUNDATION	SLBPM75/1/15CI	1-6-4-1	

STREET LIGHT SCHEDULE											
STN No.	SITE LABEL	ACTION	CONSTRUCTION CODE	DESCRIPTION	RATE	TARIFF OWNER	EASTING	NORTHING	ORIENTATION (NORTH θ°)	MOUNTING HEIGHT (m)	REMARKS
30	12514298	INSTALL - ELEC	SLEDGL0167A	Gerard Lighting StreetLED MK III 17 W Aeroscreen	NPL2	TOWNSVILLE CITY COUNCIL	18800.3752	30660.1215	141.72	7.5	
31	12514299	INSTALL - ELEC	SLEDGL0167A	Gerard Lighting StreetLED MK III 17 W Aeroscreen	NPL2	TOWNSVILLE CITY COUNCIL	18831.5604	30682.0697	177.26	7.5	
32	12514300	INSTALL - ELEC	SLEDGL0167A	Gerard Lighting StreetLED MK III 17 W Aeroscreen	NPL2	TOWNSVILLE CITY COUNCIL	18870.5206	30682.4416	117.74	7.5	

CONSTRUCTION NOTES:

STANDARD NOTES

- CONDUIT DEPTHS, ALIGNMENTS AND TRENCHING DETAILS REFER UNDERGROUND CONSTRUCTION MANUAL TRENCHING DRAWING 5163.
- DEVELOPER TO SUPPLY AND INSTALL CONDUITS, LIGHTING FOUNDATIONS, MARKERS AND SITE FINISH.
- DEVELOPER TO CONTACT ERGON FOR SITE AUDITS IN ACCORDANCE WITH RSC07.
- LOCAL COUNCIL TO ACCEPT STREETLIGHTS AND POSITIONS.
- ALTERATION TO DESIGN - PREMISE MUST BE CONTACTED ON BEFORE PROCEEDING.
- SPECIFICATIONS
THIS WORKS PLAN IS TO BE READ IN CONJUNCTION WITH THE FOLLOWING ERGON ENERGY MANUALS AND SPECIFICATIONS.
- RSC06 URD MAIN SPECIFICATION
- RSC07 URD CIVIL WORKS
- U/G CONSTRUCTION MANUAL
- LIGHTING CONSTRUCTION MANUAL
CONSUMERS INSTALLATION SHALL COMPLY WITH AS3000:2018 - SAA WIRING RULES
- CIVIL WORKS CONSIST OF
- ALL TRENCHING
- ALL CONDUIT INSTALLATION
- ALL FOUNDATIONS FOR TRANSFORMERS
- OPENING UP AND BACKFILLING OF PILLARS AND THE LIKE TO ALLOW FOR THE ELECTRICAL INSTALLATION.
- OPENING UP AND BACKFILLING OF REQUESTED LOCATIONS TO ENABLE ERGON INSPECTIONS.
- ELECTRICAL WORKS CONSIST OF
- ALL CABLING INSTALLATION
- LIGHT POLES, PILLARS AND THE LIKE

SPECIAL NOTES

- LIVE RETICULATION (CABLES AND PILLARS) EXIST IN THE VICINITY OF STATIONS 100 AND 01 THROUGH TO 10, CONFIRM LOCATION OF ALL EXISTING INFRASTRUCTURE BEFORE DIGGING. CONNECTION TO THESE STATION NUMBERS IS ERGON WORKS.
- WHERE CONSTRAINTS ARE DISCOVERED DURING CONSTRUCTION, THE CONTRACTOR SHALL PROVIDE THE CONSULTANT WITH PHOTOGRAPHIC EVIDENCE AND DOCUMENTATION DETAILING THE DEPTH OF CONDUITS, SIZE OF OBSTRUCTION AND COVER TO REVIEW AND APPROVE.
- WHERE CHANGES IN NON-STANDARD DEPTHS EXCEED 2.5m DEPTH, EXCEEDS 5% OF TOTAL TRENCH LENGTH OR 300mm REDUCED COVER CONTINUES FOR MORE THAN 5m, ALL SUPPORTING DOCUMENTATION SHALL BE SUBMITTED TO THE ASP CONSULTANT FOR THEM TO OBTAIN ERGON APPROVAL PRIOR TO CARRYING OUT WORKS.
- STREET LIGHTING IS TO AS1158 CATEGORY PR5 FOR ALL MINOR STREETS.
- ALL LIGHT POLES TO BE OFFSET 1.05m FROM THE BACK OF KERB TO CENTRE OF POLE FOUNDATION UNLESS OTHERWISE NOTED.
- ENSURE CAUTION TAPE DEPTH IS STRICTLY IN ACCORDANCE WITH ERGON STANDARD DRAWING 5163: 350+50 BELOW FINISHED SURFACE FOR FOOTPATHS AND 500+50 FOR ROADWAYS.
- SUPPLY AND INSTALL POLYMERIC CABLE PROTECTION COVER OVER ALL CONDUITS OUTSIDE ELECTRICITY FOOTPATH ALIGNMENT IN ACCORDANCE WITH CONSTRUCTION PRACTICES DRAWING 5124.
- SUPPLY AND INSTALL KERB MARKERS FOR ALL ROAD CROSSING.
- ALL MEASUREMENTS ARE TAKEN FROM CAD DRAWINGS ENSURE SITE MEASUREMENTS OF ALL CABLE AND CONDUIT LENGTHS PRIOR TO ORDERING MATERIALS.

ON COMPLETION, CLEARLY MARK UP THIS DRAWING WITH ANY CHANGES AND RETURN TO PREMISE.

CHANGES: YES NO

ELECTRICAL CONTRACTOR
NAME: DOWNER GROUP
SIGNATURE: PAUL LANGTREE
DATE: 12-08-22

CIVIL CONTRACTOR
NAME: TOWNSVILLE EARTH MOVING
SIGNATURE: MICHAEL BROSAN
DATE: 12-08-22

EXISTING SERVICES

ALL EXISTING SERVICES ARE TO BE LOCATED BY THE CONTRACTOR THROUGH CONTACTING THE RELEVANT SERVICE AUTHORITY PRIOR TO THE COMMENCEMENT OF ANY WORK

ERGON WRN: 1722471

AS-BUILT

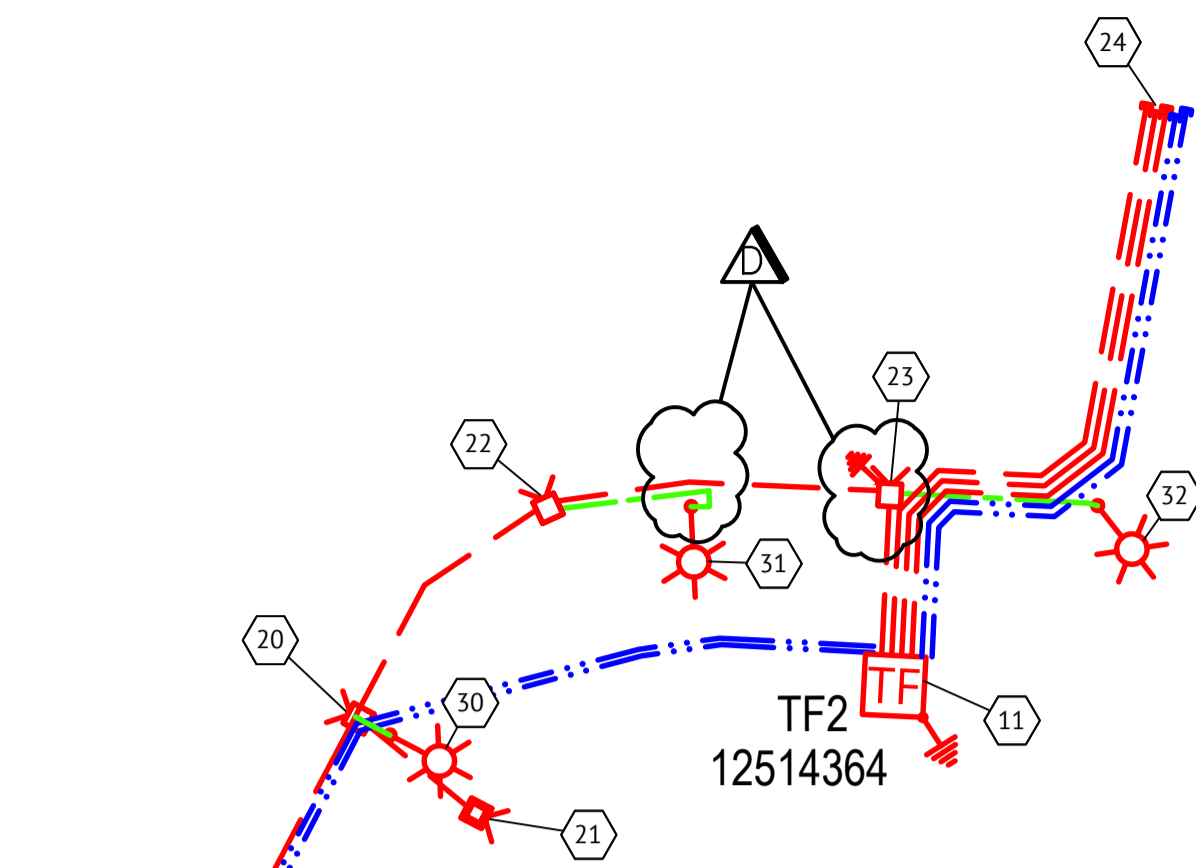
DATE	REV	DESCRIPTION	NRF	MM	REC	APP
18-08-22	D	AS-BUILT	NRF	MM		
13-05-22	C	SCHEDULES, NOTES AND LAYOUT UPDATED	NRF	MM		
18-03-22	B	REVISED CONSTRUCTION ISSUE	NRF	MM		
21-01-22	A	CONSTRUCTION ISSUE	NRF	MM		



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84 DENHAM STREET
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TOWNSVILLE, QLD 4810
PH: (07) 4772 0666
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DESIGNED M. MORICONI	SCALE 0 15 30 45m SCALE 1:750(A1)
CHECKED M. MORICONI	CLIENT PARKSIDE DEVELOPMENT PTY LTD
PROJECT MANAGER P. PETERSON	PROJECT WILLOWBANK ESTATE STAGE 24B
ENGINEERING CERTIFICATION	LOCATION WILLOWBANK, KIRWAN
M.MORICONI	SHEET TITLE ELECTRICAL LAYOUT PLAN, SCHEDULES AND NOTES
RPEQ: 23476	JOB CODE PAR-0036

SHEET NUMBER E002	REV D
SHEET 002 OF 003	



LEGEND:

- NEW PADMOUNTED TRANSFORMER.
- EXISTING PADMOUNTED TRANSFORMER.
- PILLAR
- EXISTING PILLAR
- CROSS ROAD PILLAR
- EXISTING CROSS ROAD PILLAR
- LINK PILLAR
- EXISTING LINK PILLAR
- OPEN POINT
- SERVICE CONDUITS TO LOTS
- EARTH - PLACED AS SHOWN ON DRAWING
- STATION NUMBER
- EXISTING STATION NUMBER
- STREET LIGHT
- EXISTING STREET LIGHT
- TRENCH SECTION WHERE 'XX' INDICATES SECTION DETAIL

LEGEND: conduit schematic

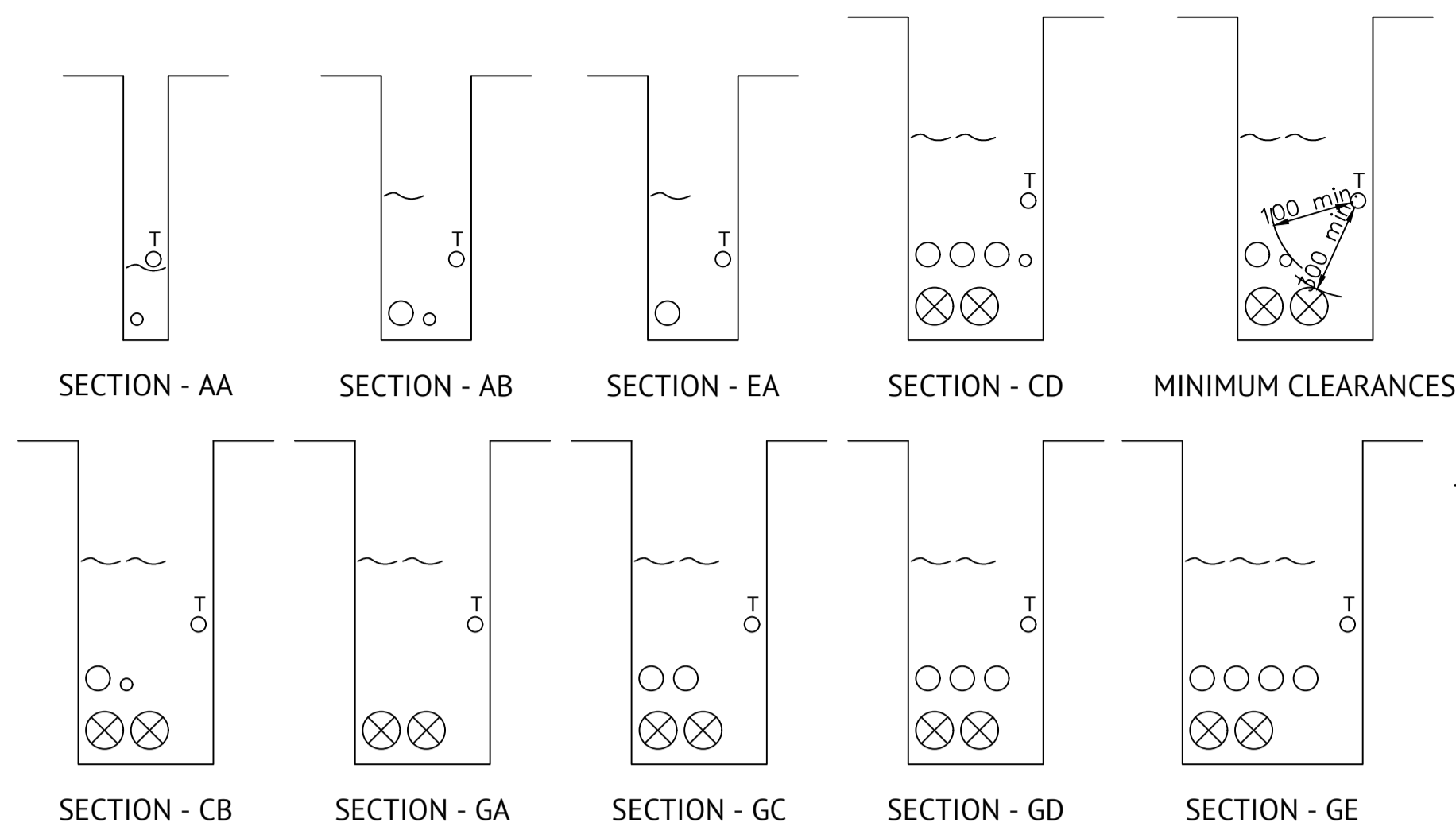
- EXISTING 40mm CONDUIT
- EXISTING 80mm CONDUIT
- EXISTING 125mm CONDUIT
- NEW 50mm CONDUIT
- NEW 80mm CONDUIT
- NEW 125mm CONDUIT

ON COMPLETION, CLEARLY MARK UP THIS DRAWING WITH ANY CHANGES AND RETURN TO PREMISE.

CHANGES: YES/NO

ELECTRICAL CONTRACTOR
NAME: DOWNER GROUP
SIGNATURE: PAUL LANGTREE
DATE: 12-08-22

CIVIL CONTRACTOR
NAME: TOWNSVILLE EARTH MOVING
SIGNATURE: MICHAEL BROSNAN
DATE: 12-08-22



LEGEND

- CAUTION TAPE ORANGE
- TELECOMMUNICATIONS CONDUIT
- PUBLIC LIGHTING CONDUIT
- LV CONDUIT
- HV CONDUIT

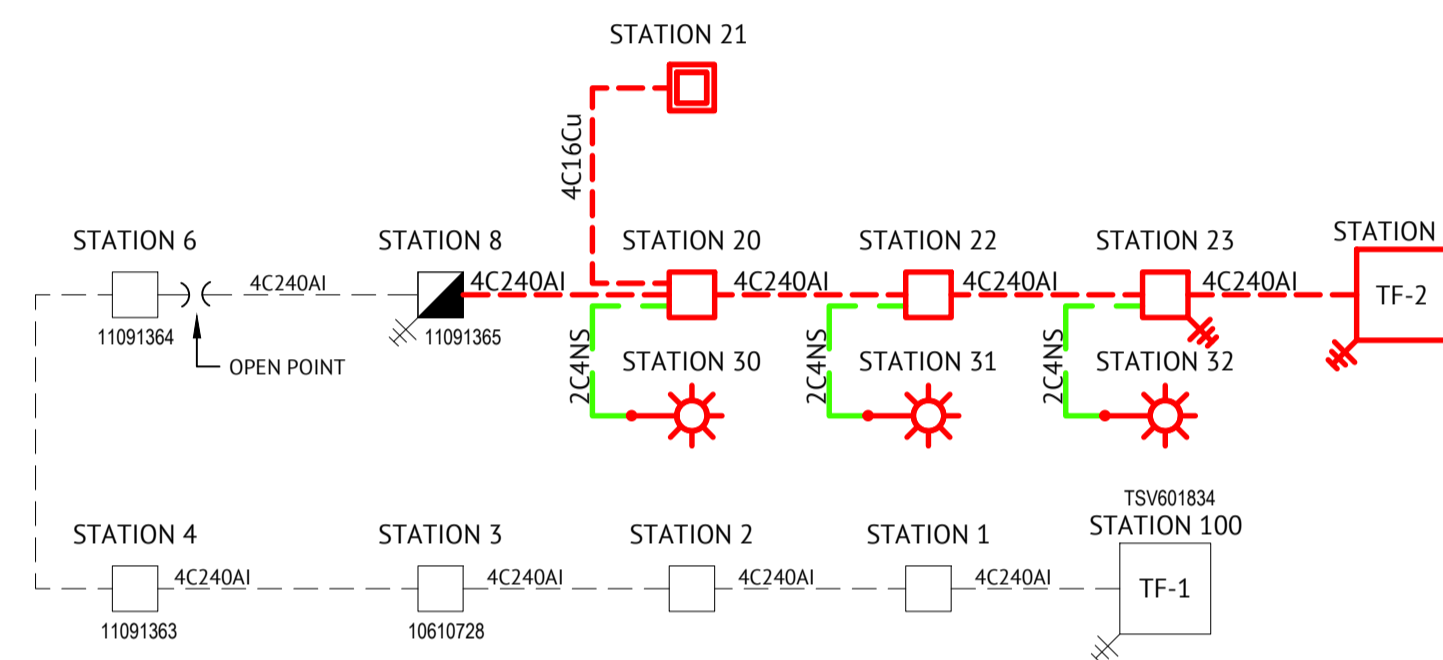
CALCULATED HV PULLING TENSION:

STN 100 - 11 9.93kN
STN 11 - 100 12.73kN

ACTUAL PULLING TENSION:
850kg

TRENCH DETAILS

NOT TO SCALE



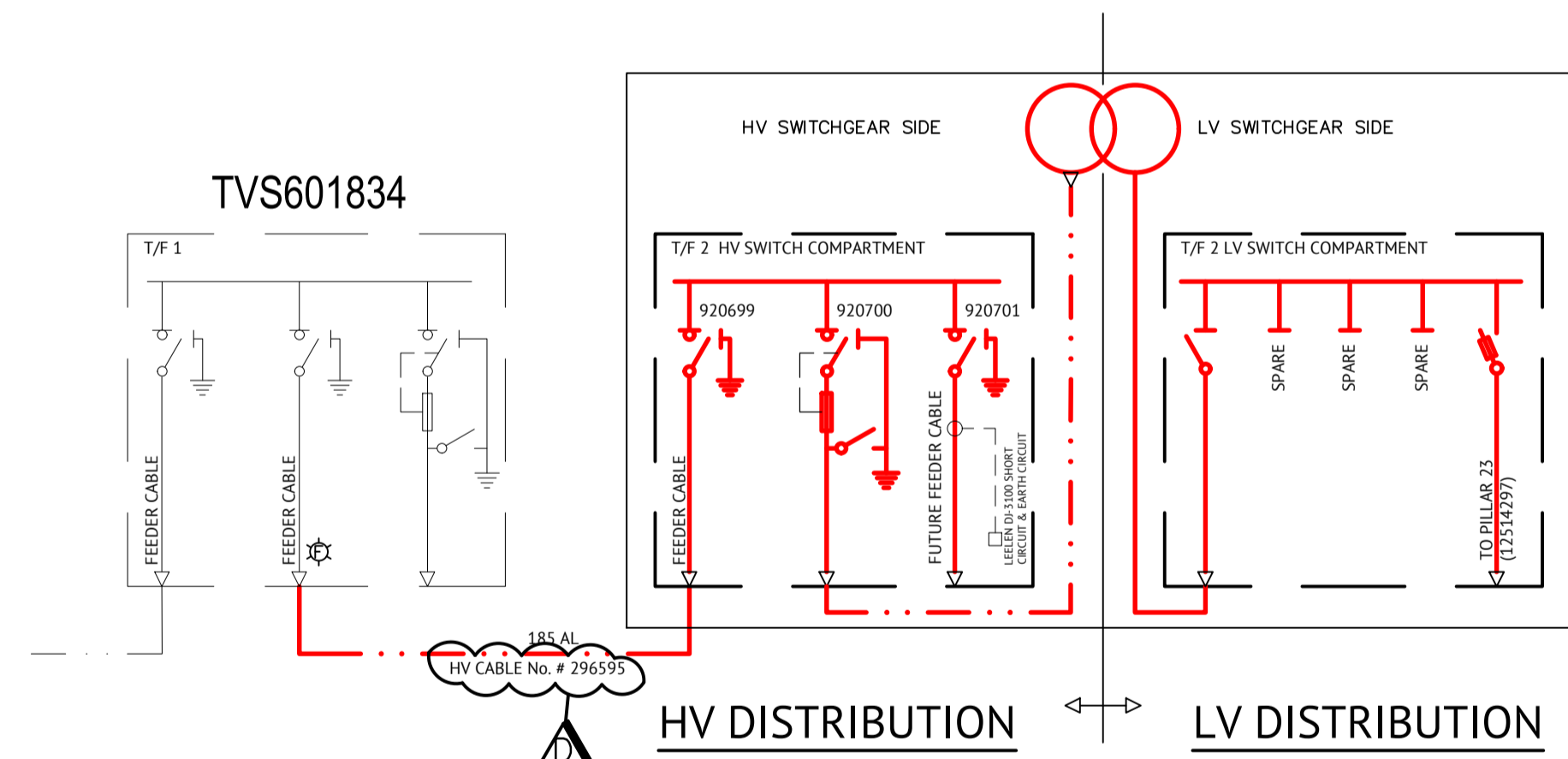
STAGE 24B LV SCHEMATIC

HV SCHEMATIC: NOT TO SCALE

NOTE: HV CABLE TO BE PULLED FROM STATION 11 TO STATION 100

LEGEND:

- EXISTING SWITCH
- NEW SWITCH
- EXISTING FUSE SWITCH
- NEW FUSE SWITCH
- CIRCUIT FAULT INDICATOR



STAGE 24B CONDUIT SCHEMATIC

SCALE 1:500@A1

CABLE SCHEDULE							
STN FROM	STN TO	VOLTAGE	ACTION	CONSTRUCTION CODE	ROUTE LENGTH (m)	CABLE LEGTH (m)	REMARKS
8	20	400V	INSTALL - ELEC	LVI-240C4/1611	40	44	CONTRACTOR TO INSTALL CABLE IN BOTH PILLARS AND TERMINATE AT STATION 20. TERMINATION AT STATION 8 BY ERGON
11	23	400V	INSTALL - ELEC	LVI-240C4/1611	18	23	
11	100	11kV	INSTALL - ELEC	11I-185T/1720	350	354	CONTRACTOR TO INSTALL HV CABLE AND TERMINATE IN NEW PADMOUNT AT STATION 11. ERGON INSERTS AND TERMINATES HV CABLE IN THE EXISTING PADMOUNT AT STATION 100.
20	21	400V	INSTALL - ELEC	LVI-16CUC4/1601	16	20	
20	22	400V	INSTALL - ELEC	LVI-240C4/1611	30	34	
20	30	230V	INSTALL - ELEC	LVI-4CU2NS/1671	4	8	STREET LIGHT
22	23	400V	INSTALL - ELEC	LVI-240C4/1611	35	39	
22	31	230V	INSTALL - ELEC	LVI-4CU2NS/1671	17	21	STREET LIGHT
23	32	230V	INSTALL - ELEC	LVI-4CU2NS/1671	20	24	STREET LIGHT

CONDUIT SCHEDULE						
STN FROM	STN TO	ACTION	CONSTRUCTION CODE	LENGTH (m)	BENDS	REMARKS
10	11	INSTALL - CIVIL	C125L	92	15/1830x2, 45/1830x1	
10	11	INSTALL - CIVIL	C125L	92	15/1830x2, 45/1830x1	SPARE CONDUIT
11	23	INSTALL - CIVIL	C80L	18	45/1200x1	
11	24	INSTALL - CIVIL	C125L	69	45/1830x4	SPARE CONDUIT
11	24	INSTALL - CIVIL	C125L	69	45/1830x4	SPARE CONDUIT
11	24	INSTALL - CIVIL	C80L	69	45/1830x4	SPARE CONDUIT
11	24	INSTALL - CIVIL	C80L	69	45/1830x4	SPARE CONDUIT
11	24	INSTALL - CIVIL	C80L	69	45/1830x4	SPARE CONDUIT
10	20	INSTALL - CIVIL	C80L	40	45/1200x1	SPARE CONDUIT. UNDERBORE ROAD CROSSING DN110 JOIN TO CAPPED
20	21	INSTALL - CIVIL	C80L	16	90/450x2	
20	22	INSTALL - CIVIL	C80L	30	45/1200x2, 30/1830x1	
20	30	INSTALL - CIVIL	C50H	4	90/300x2	STREET LIGHT
22	23	INSTALL - CIVIL	C80L	35	45/1200x2, 15/1830x1	
22	31	INSTALL - CIVIL	C50H	17	90/600x1, 90/300x3	STREET LIGHT
23	32	INSTALL - CIVIL	C50H	20	90/600x2	STREET LIGHT

EXISTING SERVICES

ALL EXISTING SERVICES ARE TO BE LOCATED BY THE CONTRACTOR THROUGH CONTACTING THE RELEVANT SERVICE AUTHORITY PRIOR TO THE COMMENCEMENT OF ANY WORK

ERGON WRN: 1722471

AS-BUILT

DATE	REV	DESCRIPTION	REVISIONS	NRF	MM
18-08-22	D	AS-BUILT		NRF	MM
13-05-22	C	SCHEDULES AND SCHEMATICS UPDATED		NRF	MM
18-03-22	B	REVISED CONSTRUCTION ISSUE		NRF	MM
21-01-22	A	CONSTRUCTION ISSUE		NRF	MM



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PH: (07) 4772 0666
WEB: www.premise.com.au

DESIGNED
M. MORICONI
CHECKED
M. MORICONI
PROJECT MANAGER
P. PETERSON
ENGINEERING CERTIFICATION

M.MORICONI RPEQ: 23476

SCALE
AS SHOWN
ORIGINAL SHEET SIZE A1

CLIENT
PARKSIDE DEVELOPMENT PTY LTD

PROJECT
WILLOWBANK ESTATE STAGE 24B

LOCATION
WILLOWBANK, KIRWAN

SHEET TITLE
SCHEMATICS, SCHEDULES AND LEGENDS

JOB CODE
PAR-0036

SHEET NUMBER
E003

REV
D

SHEET 003 OF 003



LEGEND

	STAGE BOUNDARY
	NBNCo. CONDUIT WITH END CAP
	EXISTING NBN CONDUIT
	SHARED TRENCH
	ACO CABLEMATE TYPE 2 PLASTIC PIT OR SIMILAR
	ACO CABLEMATE TYPE 5 PLASTIC PIT OR SIMILAR
	ACO CABLEMATE TYPE 8 PLASTIC PIT OR SIMILAR
	EXISTING ACO CABLEMATE TYPE 5 PLASTIC PIT OR SIMILAR

- NOTES**
- PITS TO BE LOCATED CLEAR OF THE PILLAR EXCLUSION ZONE AS PER ERGON DRAWING 5196-1
 - PITS ARE TO INCLUDE LID GASKET.
 - SERVICE CONDUITS TO EXTEND 1m INSIDE THE FRONT PROPERTY BOUNDARY. FOR DISTANCES FROM SIDE BOUNDARY, REFER APPLICABLE PIT LAYOUT DETAILS OR SERVICE CONDUIT DETAIL FOR BOUNDARIES WITHOUT COMMUNICATIONS PIT. CONTRACTORS TO TIE TELECOMMUNICATIONS CAUTION TAPE TO END OF SERVICE CONDUITS AND EXTEND TO ABOVE GROUND LEVEL FOR FUTURE CONDUIT LOCATION.
 - CONDUITS TO ENTER AND EXIT AT ENDS OF PITS ONLY. LOCATE CONDUITS AS CENTRALLY IN PIT END WALLS AS POSSIBLE. MINIMUM SEPARATION BETWEEN CONDUITS IS TO BE 25mm. REFER THIS SHEET FOR PIT END WALL DETAILS FOR ANY ADDITIONAL REQUIREMENTS.
 - MINIMUM COVER TO BE 300mm FOR SERVICE DROP CONDUITS, 450mm IN VERGE 600mm UNDER LOCAL ROADS, AND 800mm UNDER MAIN ROADS.
 - CONDUITS ARE TO BE CLEANED AND PROVEN USING A MANDREL. AFTER TESTING INSTALL A SUITABLE DRAW ROPE AND CAP CONDUIT ENDS. SEAL CONDUITS AT PITS TO PREVENT ENTRY OF DUST AND MOISTURE.
 - INSTALL NON-CONDUCTIVE (METAL FREE) MARKER TAPE ABOVE ALL SERVICE CONDUITS 300mm BELOW FINISHED GROUND LEVEL.
 - REFER TO ERGON ENERGY STANDARD DRAWINGS 5228 AND 5168 SHEETS 1 TO 3 FOR SHARED TRENCH CROSSING SECTIONS.
 - REFER TO NBNCo. DOCUMENT NO. NBN-TE-CTO-194 (DEPLOYMENT OF THE NBNCo. CONDUIT AND PIT NETWORK - GUIDELINES FOR DEVELOPERS) FOR DETAILED SPECIFICATION.
 - GRADE TOP OF PIT TO MATCH VERGE/FOOTPATH.
 - WHERE REQUIRED, SUPPLY AND INSTALL SERVICE AND ROAD CROSSING CONDUIT SHOWN IN THE PIT LAYOUTS.
 - WHERE CONDUIT BURIAL DEPTH IS LESS THAN THAT SPECIFIED IN THE NBNCo. DEPLOYMENT OF CONDUIT AND PIT NETWORK GUIDELINES, SUPPLY AND INSTALL CONCRETE COVER (FOR VERGE AND FOOTPATH) /CONCRETE ENCASUREMENT (FOR ROADWAYS) ENSURE THAT MINIMUM SEPARATION TO ALL OTHER SERVICES ARE MAINTAINED.
 - SUPPLY AND INSTALL ADDITIONAL DEVIATING CONDUIT BENDS TO ACHIEVE THE INCREASED/DECREASED BURIAL DEPTH REQUIRED TO AVOID CLASH WITH OTHER SERVICES.

SDU Development Information

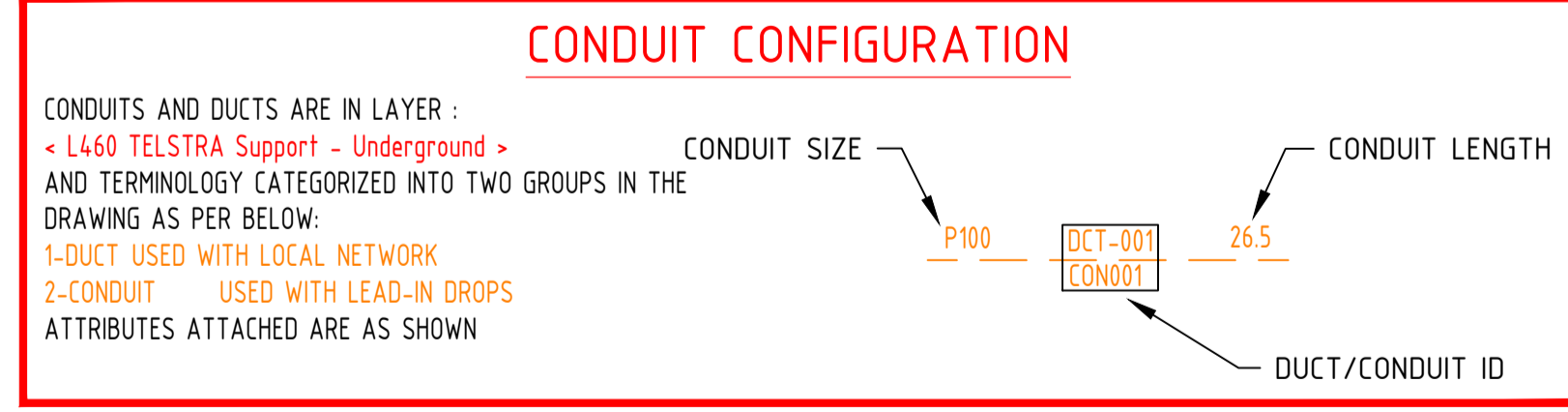
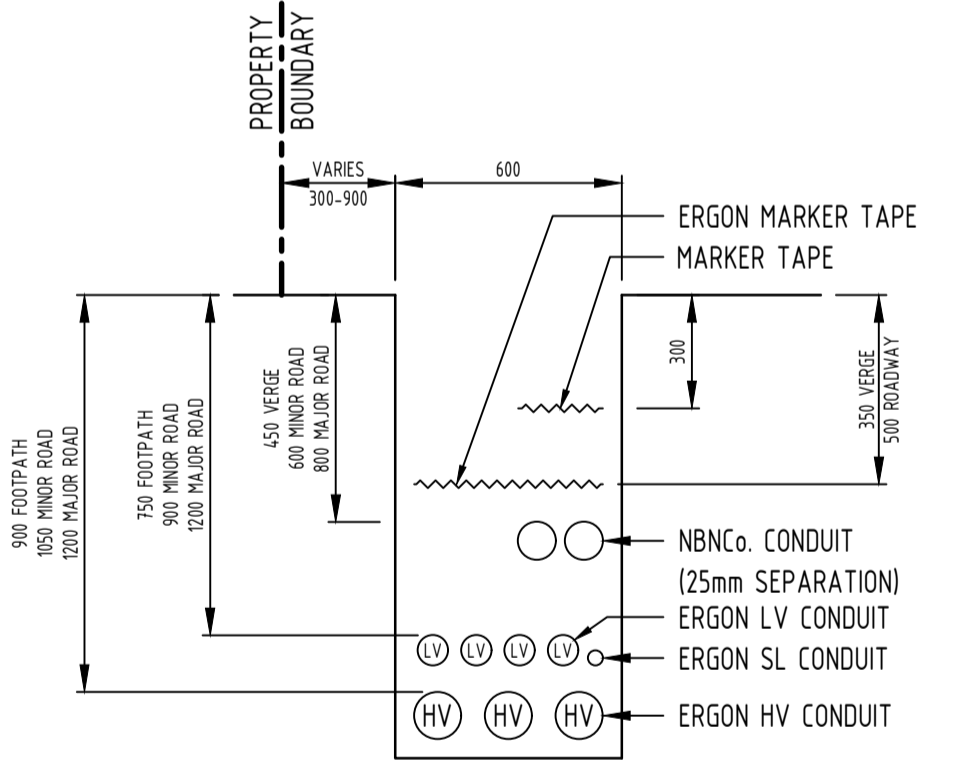
Development Name: WILLOWBANK	
Developer Company: PARKSIDE DEVELOPMENT	
Development Address: PEBBLEDRIE DRIVE, KIRWAN, QLD 4817	
Authorised Rep: MICHAEL TAPIOLAS Phone: 07 4431 2600 E-Mail: michael.tapiolas@parksidedev.com.au	
nbn Reference Number: STG-W000215178	Stage Number: 24B Design Revision: 1

BILL OF MATERIAL

NO OF LOTS: 10				
PITS		DUCTS		
SIZE	QTY	SIZE	QTY	MTRS
2	0	P100	5	183.1
5	5	P50	1	23.2
6	0	P20	10	50.8
8	0			
9	0			
TOTAL NUMBER OF PITS:		5		
TOTAL NUMBER OF MANHOLES:		0		
TOTAL NUMBER OF CONDUITS:		16		
TOTAL LENGTH OF CONDUITS:		257.1		

STAFF WORKING ON THIS ESTIMATE PLEASE NOTE:
The location of other authorities services which may affect this work have not been obtained by the estimator. Constructor to obtain service information before commencing.

SAFETY FIRST
SAFETY STARTS WITH YOU



TYPICAL SEPARATION FROM ERGON CONDUITS

ERGON CONDUIT TYPE	PARALLEL SEPARATION (mm)	CROSSING SEPARATION (mm)
LV/SL	100	100
HV	300	100



REV	DATE	DRAFTER	DESCRIPTION	APPROVED
1	24-01-22	N. FAIRCHILD	FOR APPROVAL	M. MORICONI

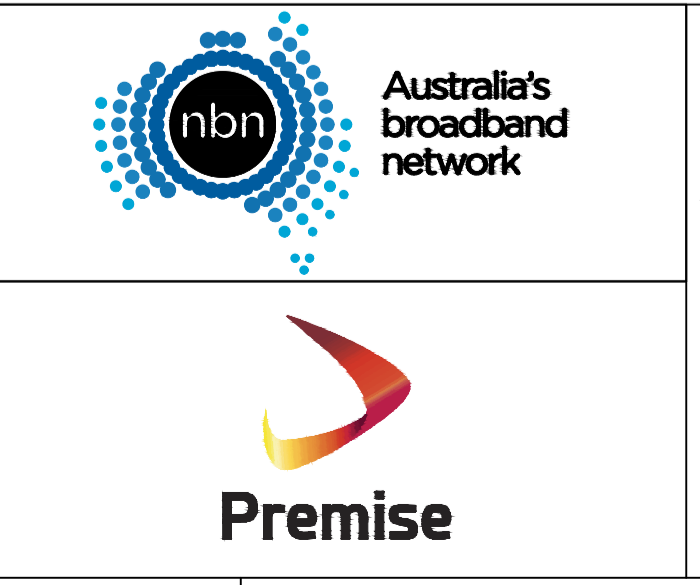
STRICTLY CONFIDENTIAL

NBNCo APPROVAL RECORD:

SIGNATURE	DATE
<input type="checkbox"/> DD	_____
<input type="checkbox"/> WD	_____
<input type="checkbox"/> AB	_____

QUALITY RECORD :

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KEY PLAN

DRAWING TITLE:
STG-W000215178
WILLOWBANK STAGE 24B
PIT AND PIPE DESIGN

ENABLE#: 326055

STATE: QLD REGION: NQ

FSA: SAM: ADA:

PROJECT No:
CADREF No: PAR-0036

SCALE: N/A SHEET No. 1 OF 2 REV. 1