

Typical OptiComm Clearance from other Underground Utility & Carrier Services

Underground Plant Item	Minimum Radial Clearance from Underground Telecommunications Cable in mm (Notes 1, 4)
Gas Pipe	
Large Main (Over 110 mm diameter)	300
Small Main (75 mm diameter or less)	150
Power Line and Service Lines	
HV	300 (Note 2)
LV	100 (Note 3)
Water Main	
High Capacity Main	300
Local Reticulation	150
Sewer	
Mains	300
Connections to Mains	150 (Note 3)
Other Carriers' Telecommunication Cables	100

NOTES:
1. Lesser separations may be used where all the parties involved concur.
2. Where protective covering/barriers have not been provided over HV Power Lines, a minimum separation should be 450 mm.
3. LV Customer Leads and Service Lines housed in appropriately coloured pipes may share a common trench or bore on private property and under roadways without specified separation.
4. Telecommunication Cable includes non-conductive or passive communications cables such as self-supporting fibre optic cable.

Pit and Pipe installation to conform with G645:2017 & CS24:2013 as well as relevant local state and territory standards where practical.

BILL OF MATERIAL

BIRDWOOD - STAGE 1

TOTAL No OF LOTS :45

NUMBER OF EXISTING LEAD-INS INSIDE OF STAGE BOUNDARY : 0

NUMBER OF LEAD-INS CONSTRUCTED OUTSIDE OF STAGE BOUNDARY : 0

PITS

SIZE	QTY	SIZE	QTY	MTRS
PROPOSED	ACTUAL	PROPOSED	ACTUAL	PROPOSED
2	4	2xP50	0	12.0
5	20	P50	35	1185.0
6	4	P23	45	244.5
8	0	P100	0	

TOTAL NUMBER OF PITS: 28

TOTAL NUMBER OF CONDUITS: 80

TOTAL LENGTH OF CONDUITS: 14415

TOTAL LENGTH OF DUCT ROPE (2XP50, P50, P100): 1257.0

ALL CONDUITS ARE TO BE ROPED BY THE INSTALLATION CONTRACTOR

CONDUIT-PLUGS

ITEM	SIZE	QTY
		PROPOSED
CONDUIT BUSH	P100	0
CONDUIT BUSH	P50	70
CONDUIT BUSH	P23	45
TOTAL CONDUIT BUSHES		120
TOTAL CONDUIT NUMBER OF END CAPS:		7

CONDUIT - BENDS

ITEM	SIZE	QTY
		PROPOSED
CONDUIT BENDS	2xP50	1
CONDUIT BENDS	P50	73
CONDUIT BENDS	P23	45
TOTAL CONDUIT NUMBER OF BENDS:		119

AS BUILT USE ONLY

CONSTRUCTION COMPANY:

START DAY OF CONSTRUCTION:

END DAY OF CONSTRUCTION:

NOTE:PIT SYMBOLS ARE NOT 1:1 SCALE

NOTE:

- ALL PIT AND PIPE SHALL BE CONSTRUCTED IN ACCORDANCE WITH COMM'S ALLIANCE - G645-2017
- ALL PIT LIDS ARE TO BE BRANDED AS "COMMUNICATIONS" ONLY.
- ALL LEAD-IN CONDUITS MUST HAVE DRAWSTRINGS INSTALLED.
- ALL DISTRIBUTION CONDUITS MUST BE ROPED.
- ALL LEAD-IN CONDUIT DRAWSTRINGS MUST BE LABELED WITH THE LOT/UNIT NUMBER.
- ALL CONDUITS MUST ONLY ENTER THE END WALL OF THE PITS AND INSTALLED TO CORRECT DEPTH.
- ALL CONDUITS MUST HAVE BUSHES INSTALLED AND FLUSH WITH THE PIT WALLS.
- PLEASE ARRANGE AN ONSITE INSPECTION OF THE PIT AND PIPE INFRASTRUCTURE AND OBTAIN OPTICOMM APPROVAL.
- ALL PITS TO BE INSTALLED TO FINISHED GROUND LEVELS
- THE DEVELOPER/INSTALLATION CONTRACTOR MUST SUPPLY OPTICOMM WITH DATED, SIGNED, AND REDLINED AS-BUILT OF THIS DESIGN DRAWING THAT INCLUDE CONDUIT LENGTHS AND PIT LOCATIONS AFTER THE INSTALLATION IS COMPLETED, IN ACCORDANCE WITH COMM'S ALLIANCE - G645-2017.

ROAD RESERVE ALLOCATION FOR UTILITY SERVICE PROVIDERS WHEN USING STANDARD ALIGNMENTS

Notes:

- All measurements relate to distance from the boundary line on each side of the road reserve unless otherwise specified.
- Junction pits and access chambers may extend into the 2.4 – 3.0 metre corridor.
- These allocations may be interchanged with approval from all affected utility providers.
- Traffic light installation cables for synchronising systems to be located in verge by arrangement.
- Under established footpaths some variations may be necessary to Western Power and Telecommunications cable alignments following negotiation and approval from other affected utility providers.
- In general, no underground utility service shall exceed a nominal 300mm diameter in the 0.0–3.0 metre alignment. Larger utility services may be located within this alignment following negotiation and approval from other utility providers.
- Local Government reticulation or rising irrigation main to be located beyond the 3.0 metre alignment by arrangement.

OPTICOMM Networks

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OPTICOMM PROJECT MANAGER : SCOTT RICHARDSON

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WARNING

BEWARE OF UNDERGROUND SERVICES

THE LOCATION OF UNDERGROUND CABLES ARE APPROXIMATE ONLY AND THEIR EXACT POSITION SHOULD BE CHECKED ON SITE. LOCATE ALL UNDERGROUND SERVICES AND CABLES BEFORE COMMENCEMENT OF WORK.

DIAL 1100

BEFORE YOU DIG

REV	DATE	DESIGN	DESCRIPTION	CHECKED	APPROVED
1	26-03-25	C.G. (UPD)	CIVIL DESIGN ISSUED FOR CONSTRUCTION	T.B.	N.V.

Legend

1x100mm (ID) Telecommunication Pipe

2x100mm (ID) Telecommunication Pipe

3x100mm (ID) Telecommunication Pipe

4x100mm (ID) Telecommunication Pipe

5x100mm (ID) Telecommunication Pipe

2x150mm (ID) Telecommunication Pipe

1x150mm (ID) Telecommunication Pipe

1x150mm (ID) Telecommunication Pipe used as a Protective Sleeve

Telecommunication Pipe

Minimum Pipe Bend Radius for 150mm and 100mm

Telecommunication Pipe = 900mm

P5 P50 Telecommunication Pit

P6 P60 Telecommunication Pit

P6 P60 Telecommunication Pit

P5 P50 Telecommunication Pit

P2 P20 Telecommunication Pit (Single Lid)

Lead in 20mm Telecommunication Pipe (23mm Internal Diameter)

Length 15m

300mm Bend Radius at Pit

END CAP

Electrical Risk/Transformer/ Switchgear

Broadband Aggregation Node (BAN)

Fibre Access Node (FAN)

Headend Rack (HOF)

Fibre Joint Closure (FJC)

Fibre Distribution Hub (FDH)

Connectorised FDH

OFDC 158 Connectorised FDH

Network Access Port 4x (NAP)

Connectorised NAP 4-Port

OFDC Connectorised NAP 12-Port

BID PON 1 - WITH SPLICING TRAYS

BID PON 2 - NO SPLICING TRAYS

ROT - RAPID WALLBOX

FIBRE TRUNK CABLE 24F

FIBRE TRUNK CABLE 24F

NAP TAIL CABLE

CONDUIT CONFIGURATION

CONDUIT SIZE

CONDUIT QUANTITY

CONDUIT LENGTH

CONDUIT SIZE

CONDUIT QUANTITY

CONDUIT LENGTH

NAP CONFIGURATION

NAP NAME

NAP DESIGNATION

FDH DESIGNATION

Drawing Identification

YKCW-0001

STATE: WA REGION: COWARAMUP

DRAWING TITLE:

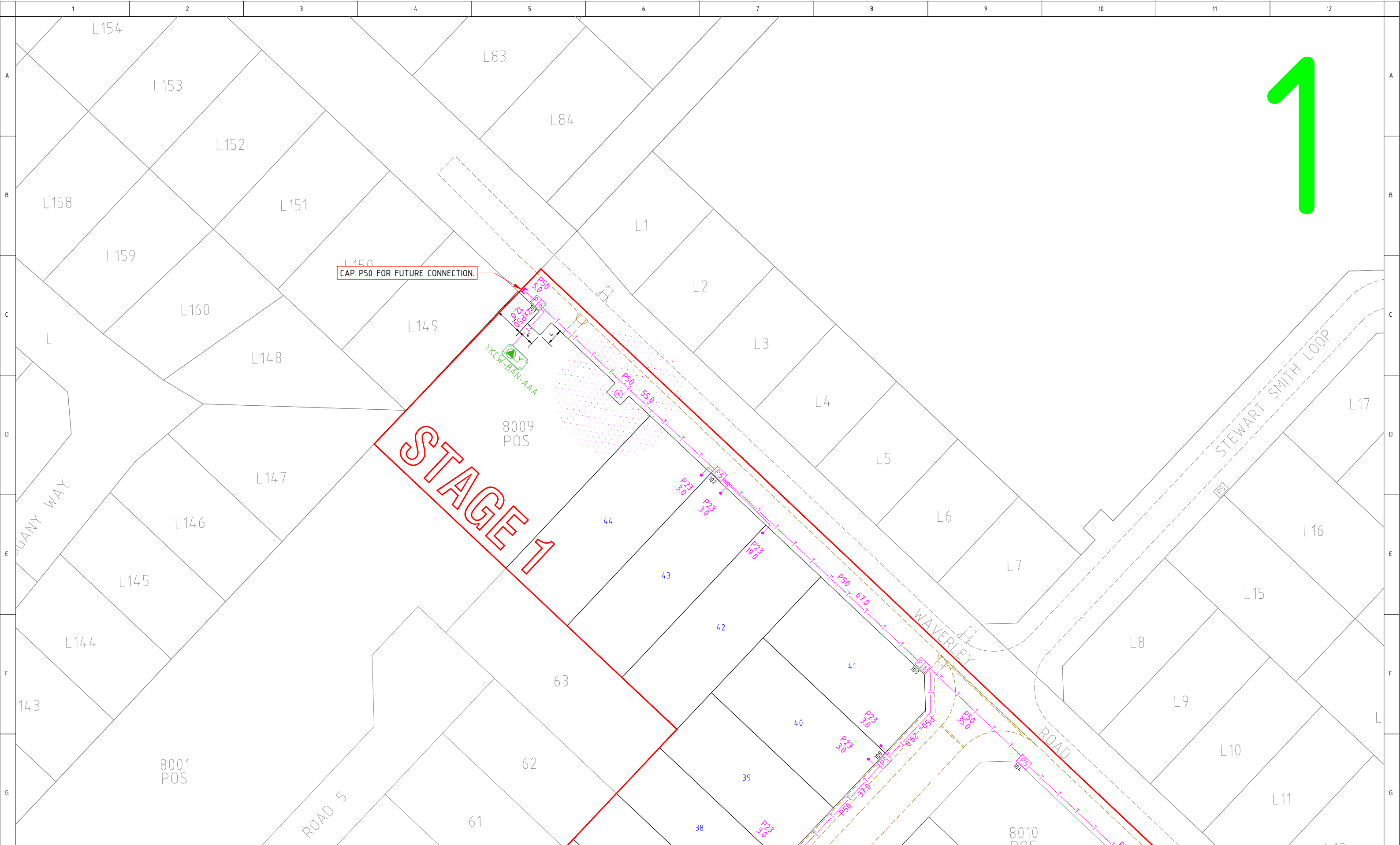
BIRDWOOD ESTATE

STAGE 1

CIVIL / FTTH NETWORK

KEY PLAN

SCALE: NTS SHEET No. KP OF 3 REV. 1



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- P40 2 x 100mm (ID) Telecommunication Pipe
- P30 3 x 100mm (ID) Telecommunication Pipe
- P20 4 x 100mm (ID) Telecommunication Pipe
- P10 5 x 100mm (ID) Telecommunication Pipe
- P0 2 x 50mm (ID) Telecommunication Pipe
- P-1 1 x 50mm (ID) Telecommunication Pipe
- 50mm Telecommunication Pipe used as a Protective Sleeve
- Telecommunication Pipe
- Minimum Pipe Bend Radius for 50mm and 100mm
- Telecommunication Pipe = 900mm
- P5 P50 Telecommunication P50
- P6 P60 Telecommunication P60
- P7 P70 Telecommunication P70
- P8 P80 Telecommunication P80
- P9 P90 Telecommunication P90
- P10 P100 Telecommunication P100
- P11 P110 Telecommunication P110
- P12 P120 Telecommunication P120
- P13 P130 Telecommunication P130
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- P21 P210 Telecommunication P210
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- P97 P970 Telecommunication P970
- P98 P980 Telecommunication P980
- P99 P990 Telecommunication P990
- P100 P1000 Telecommunication P1000

CONDUIT CONFIGURATION

CONDUIT SIZE

CONDUIT QUANTITY

CONDUIT LENGTH

NAP CONFIGURATION

NAP DESIGNATION

NAP NAME

NAP LENGTH

NAP WIDTH

NAP HEIGHT

NAP DEPTH

NAP DIRECTION

NAP LOCATION

NAP STATUS

NAP TYPE

NAP MATERIAL

NAP COLOR

NAP PATTERN

NAP TEXTURE

NAP FINISH

NAP TREATMENT

NAP PROTECTION

NAP MAINTENANCE

NAP REPAIR

NAP REPLACEMENT

NAP REMOVAL

NAP DISPOSAL

NAP RECYCLING

NAP SUSTAINABILITY

NAP INNOVATION

NAP FUTURE PROOFING

NAP ADAPTABILITY

NAP FLEXIBILITY

NAP SCALABILITY

NAP GROWTH

NAP RESILIENCE

NAP SECURITY

NAP PRIVACY

NAP COMPLIANCE

NAP LEGALITY

NAP ETHICALITY

NAP SOCIALITY

NAP ENVIRONMENTALITY

NAP ECONOMICITY

NAP POLITICALITY

NAP CULTURALITY

NAP HISTORICALITY

NAP HERITAGE

NAP IDENTITY

NAP BELONGING

NAP WELLBEING

NAP HAPPINESS

NAP PEACE

NAP JUSTICE

NAP EQUITY

NAP INCLUSION

NAP PARTICIPATION

NAP VOICE

NAP POWER

NAP INFLUENCE

NAP CREDIBILITY

NAP TRUST

NAP RESPECT

NAP DIGNITY

NAP HONOR

NAP GLORY

NAP REPUTATION

NAP IMAGE

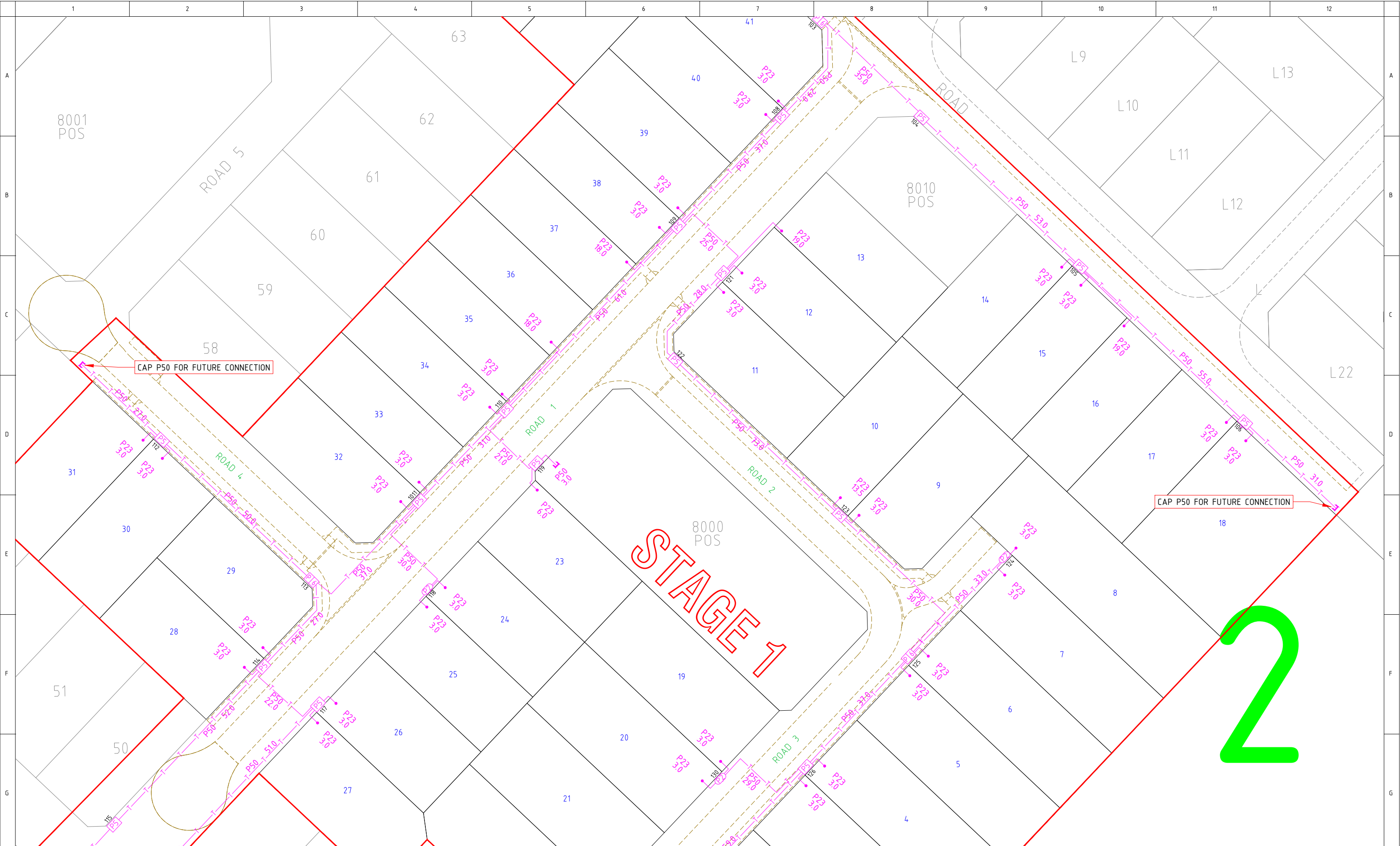
NAP REPUTATION

NAP IMAGE

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Drawing Identification	
YKCW-0001	
STATE: WA	REGION: COWARAMUP
DRAWING TITLE:	
BIRDWOOD ESTATE	
STAGE 1	
CIVIL / FTTH NETWORK	
CONSTRUCTION PLAN	
SCALE	SHEET No.
NTS	1 OF 3
REV.	1



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Legend

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- P23 2 x 100mm (ID) Telecommunication Pipe
- P23 3 x 100mm (ID) Telecommunication Pipe
- P23 4 x 100mm (ID) Telecommunication Pipe
- P23 5 x 100mm (ID) Telecommunication Pipe
- P23 2 x 50mm (ID) Telecommunication Pipe
- P23 1 x 50mm (ID) Telecommunication Pipe
- P50 50mm Telecommunication Pipe used as a Protective Sleeve
- P50 100mm Telecommunication Pipe
- P50 150mm Telecommunication Pipe
- P50 200mm Telecommunication Pipe
- P50 250mm Telecommunication Pipe
- P50 300mm Telecommunication Pipe
- P50 350mm Telecommunication Pipe
- P50 400mm Telecommunication Pipe
- P50 450mm Telecommunication Pipe
- P50 500mm Telecommunication Pipe
- P50 550mm Telecommunication Pipe
- P50 600mm Telecommunication Pipe
- P50 650mm Telecommunication Pipe
- P50 700mm Telecommunication Pipe
- P50 750mm Telecommunication Pipe
- P50 800mm Telecommunication Pipe
- P50 850mm Telecommunication Pipe
- P50 900mm Telecommunication Pipe
- P50 950mm Telecommunication Pipe
- P50 1000mm Telecommunication Pipe
- P50 1050mm Telecommunication Pipe
- P50 1100mm Telecommunication Pipe
- P50 1150mm Telecommunication Pipe
- P50 1200mm Telecommunication Pipe
- P50 1250mm Telecommunication Pipe
- P50 1300mm Telecommunication Pipe
- P50 1350mm Telecommunication Pipe
- P50 1400mm Telecommunication Pipe
- P50 1450mm Telecommunication Pipe
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- P50 3100mm Telecommunication Pipe
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- P50 4100mm Telecommunication Pipe
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- P50 9000mm Telecommunication Pipe
- P50 9050mm Telecommunication Pipe
- P50 9100mm Telecommunication Pipe
- P50 9150mm Telecommunication Pipe
- P50 9200mm Telecommunication Pipe
- P50 9250mm Telecommunication Pipe
- P50 9300mm Telecommunication Pipe
- P50 9350mm Telecommunication Pipe
- P50 9400mm Telecommunication Pipe
- P50 9450mm Telecommunication Pipe
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- P50 9650mm Telecommunication Pipe
- P50 9700mm Telecommunication Pipe
- P50 9750mm Telecommunication Pipe
- P50 9800mm Telecommunication Pipe
- P50 9850mm Telecommunication Pipe
- P50 9900mm Telecommunication Pipe
- P50 9950mm Telecommunication Pipe
- P50 10000mm Telecommunication Pipe

CONDUIT CONFIGURATION

- CONDUIT SIZE
- CONDUIT QUANTITY
- CONDUIT LENGTH

NAP CONFIGURATION

- NAP DESIGNATION
- NAP NAME

Drawing Identification

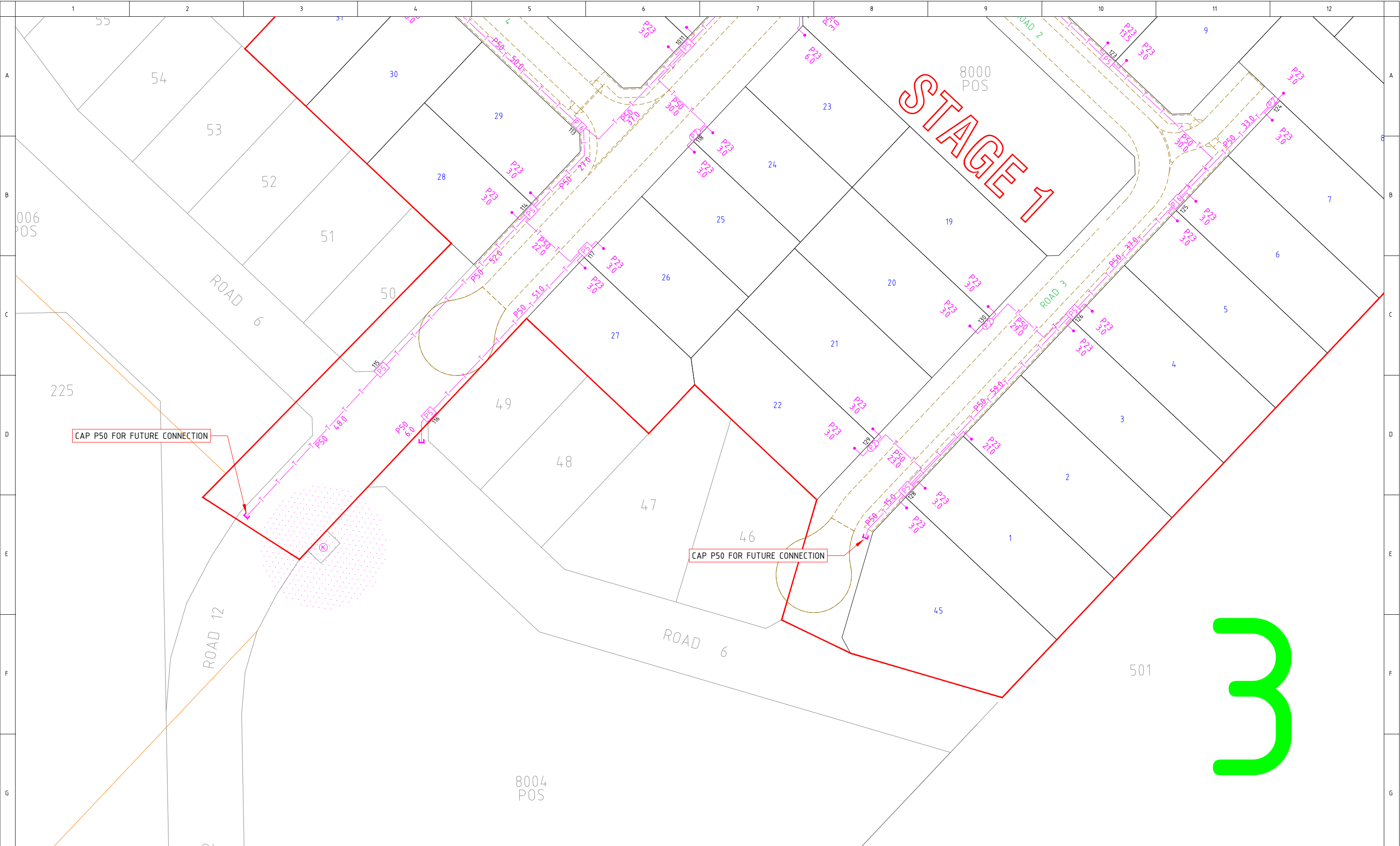
YKCW-0001

STATE: WA REGION: COWARAMUP

DRAWING TITLE:

**BORDWOOD ESTATE
STAGE 1
CIVIL / FTTH NETWORK
CONSTRUCTION PLAN**

SCALE: NTS SHEET No. 2 OF 3 REV. 1



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1	26-03-25	E.G. (UPD)	CIVIL DESIGN ISSUED FOR CONSTRUCTION	T.B.	N.V.

P50 1 X 100mm (ID) Telecommunication Pipe	Electrical Risk/Transformer/ Switchgear	FIBRE TRUNK CABLE_24F
P40 2 X 100mm (ID) Telecommunication Pipe	Broadband Aggregation Node (BAN)	FIBRE TRUNK CABLE_23F
P30 3 X 100mm (ID) Telecommunication Pipe	Fibre Access Node (FAN)	FIBRE TRUNK CABLE_24F
P20 4 X 100mm (ID) Telecommunication Pipe	Headend Rack (HOF)	NAP TAIL CABLE
P10 5 X 100mm (ID) Telecommunication Pipe	Fibre Joint Closure (FJC)	LEAD-IN ASSEMBLY (LIA)
P0 2 X 50mm (ID) Telecommunication Pipe	Fibre Distribution Hub (FDH)	
P50 50mm Telecommunication Pipe used as a Protective Sleeve	Connectorised FDH	
P10 Telecommunication Pipe	OPDC 18 Connectorised FDH	
P20 Telecommunication Pipe	Network Access Port 4x (NAP)	
P30 Telecommunication Pipe	OPDC Connectorised NAP 4-Port	
P40 Telecommunication Pipe	BID PON 1 - WITH SPLICING TRAYS	
P50 Telecommunication Pipe	BID PON 2 - NO SPLICING TRAYS	
P60 Telecommunication Pipe	ROT - RAPID WALLBOX	
P70 Telecommunication Pipe		
P80 Telecommunication Pipe		
P90 Telecommunication Pipe		
P100 Telecommunication Pipe		
P110 Telecommunication Pipe		
P120 Telecommunication Pipe		
P130 Telecommunication Pipe		
P140 Telecommunication Pipe		
P150 Telecommunication Pipe		
P160 Telecommunication Pipe		
P170 Telecommunication Pipe		
P180 Telecommunication Pipe		
P190 Telecommunication Pipe		
P200 Telecommunication Pipe		
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P280 Telecommunication Pipe		
P290 Telecommunication Pipe		
P300 Telecommunication Pipe		
P310 Telecommunication Pipe		
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P360 Telecommunication Pipe		
P370 Telecommunication Pipe		
P380 Telecommunication Pipe		
P390 Telecommunication Pipe		
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P870 Telecommunication Pipe		
P880 Telecommunication Pipe		
P890 Telecommunication Pipe		
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P920 Telecommunication Pipe		
P930 Telecommunication Pipe		
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P950 Telecommunication Pipe		
P960 Telecommunication Pipe		
P970 Telecommunication Pipe		
P980 Telecommunication Pipe		
P990 Telecommunication Pipe		
P1000 Telecommunication Pipe		

CONDUIT CONFIGURATION

CONDUIT SIZE: 25mm

CONDUIT QUANTITY: 1

CONDUIT LENGTH: 10m

NAP CONFIGURATION

NAP NAME: NAP 1

NAP DESIGNATION: NAP 1

Drawing Identification

YKCW-0001

STATE: WA REGION: COWARAMUP

DRAWING TITLE:

**BIRDWOOD ESTATE
STAGE 1
CIVIL / FTTH NETWORK
CONSTRUCTION PLAN**

SCALE: NTS SHEET No. 3 OF 3 REV. 1