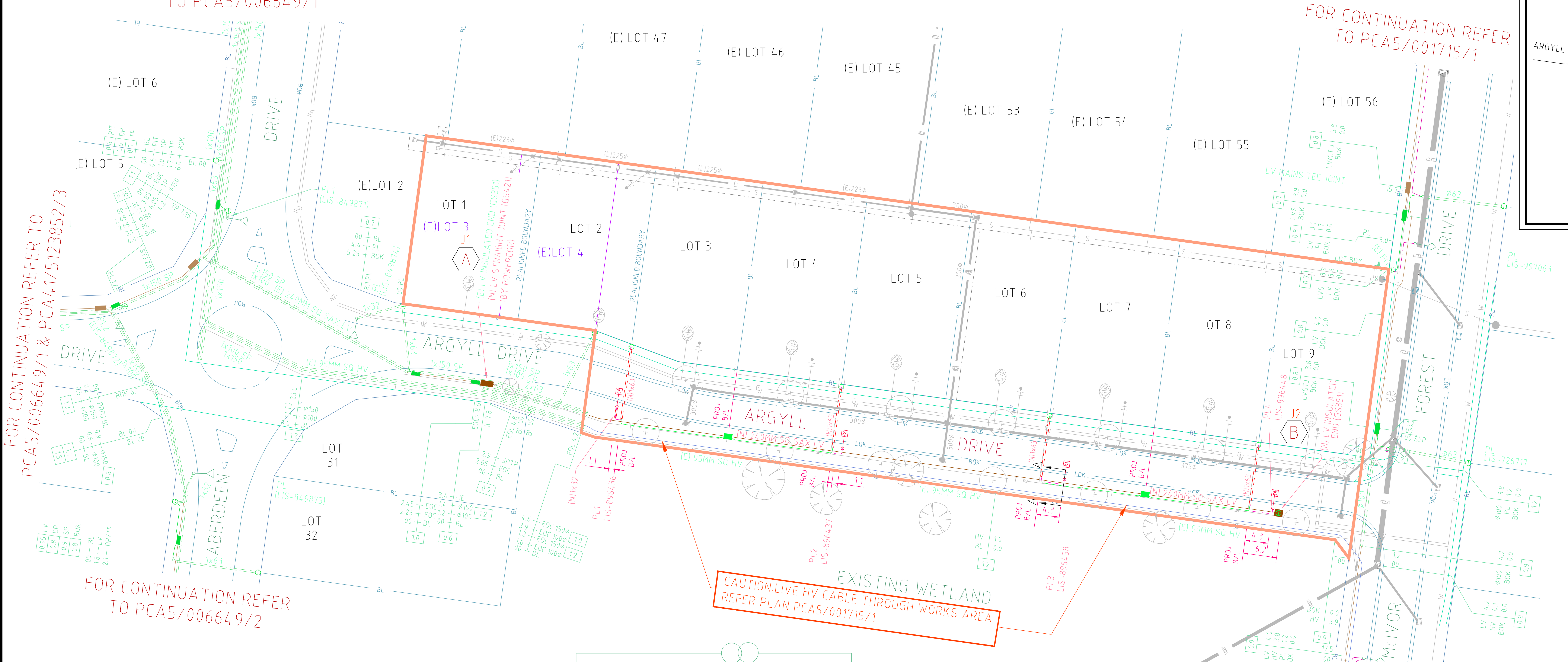
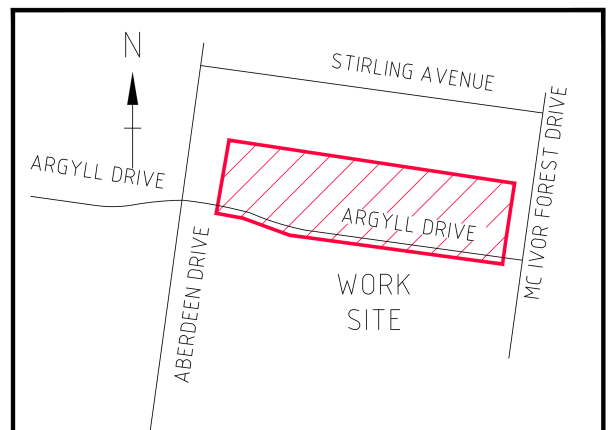
662x554





LOCALITY PLAN

NOT TO SCALE

VICROADS MAP REFERENCE: 608 K10

PUBLIC LIGHTING SCHEDULE

FOR PL POLE Nos:	PL1 - PL4
LANTERN:	NON STANDARD
WATTAGE & TYPE MANUFACTURE MODEL & CAT No MOUNTING HEIGHT COLOUR	L23 W/23W LED - SEMI CUT OFF OZLITE LED23 SWOZ23T 5.5 GLOSS BLACK
POLE:	NON STANDARD
MANUFACTURER MODEL & CAT No LENGTH & STRENGTH COLOUR	SAFEROADS BOULEVARD & GB5.5/0.9/7.6/GG 7.6/1kN GLOSS BLACK/GOLD TRANSITION
BRACKET:	TO SUIT
MANUFACTURER TYPE LENGTH COLOUR	SAFEROADS SINGLE 0.9 GLOSS BLACK
COUNCIL:	GREATER BENDIGO

NOTE 1

NO GO ZONES TO BE OBSERVED.
NO OPTION 2 CONTRACTORS TO BREACH
NO GO ZONES UNDER ANY CIRCUMSTANCE.
POWERCOR TO PERFORM LIVE WORKS

NOTE 2

ANY CONDUITS THAT NEED TO BE INSTALLED DEEPER THAN 1.5m MUST BE APPROVED BY POWERCOR PRIOR TO INSTALLATION

NOTE 3

TRENCH SHOULD NOT BE SAND AND SLAB BEFORE ELECTRICAL ASSETS DETAILS HAVE BEEN COLLECTED

NOTE 4

PROJECT MANAGER MUST BE NOTIFIED OF ANY CHANGE TO DESIGN DURING CONSTRUCTION.

CHANGES MUST BE DETAILED.

UG CABLE "AS-BUILT DETAIL" REQUIRED FOR THIS PROJECT

OFFSET DIMENSIONS

Offsets of the UG Assets from Boundary Line (BL) or the back of Kerb (BOK).

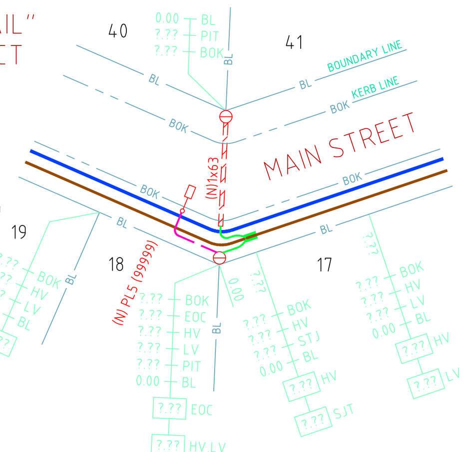
RUNNING DIMENSIONS

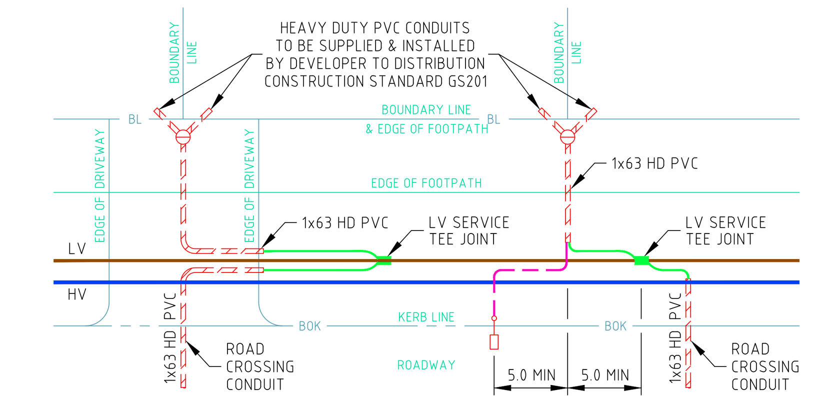
Accurate distances are to be recorded from Lot Boundaries to the middle of Joints, End of Conduits, Parallel Pillars, Distribution Cabinets and Kiosk Substations.

DEPTH DIMENSIONS

Depth of UG Asset to be recorded at the following points -
- Lot Boundaries
- Bends in Cable
- Joints
- End of Conduits
- Kiosk Substations
- Parallel Pillars
- Distribution Cabinets

REFER TO EN DRAFTING STANDARD DD235





TYPICAL SERVICE PIT INSTALLATIONS

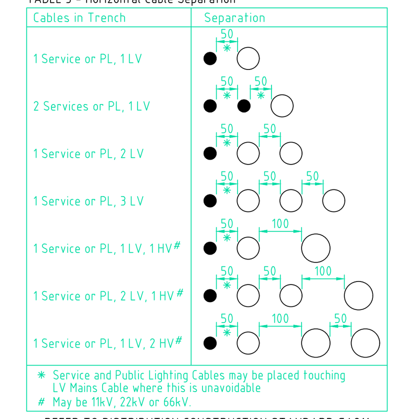
REFER TO DISTRIBUTION CONSTRUCTION STANDARD GA080

TABLE 1 - Minimum Depths for UG Lines from Surface of the Ground

Application	Directly Buried	Directly Buried with Cover Slab	Buried Enclosed in Conduit or Pipe
LV - multicore 11kV-22kV 66kV	750mm 750mm 1000mm	600mm 600mm 750mm	600mm 600mm 750mm

REFER TO DISTRIBUTION CONSTRUCTION STANDARD GA211

TABLE 3 - Horizontal Cable Separation



* Service and Public Lighting Cables may be placed touching LV Mains Cable where this is unavoidable
# May be 11kV, 22kV or 66kV.

REFER TO DISTRIBUTION CONSTRUCTION STANDARD GA211

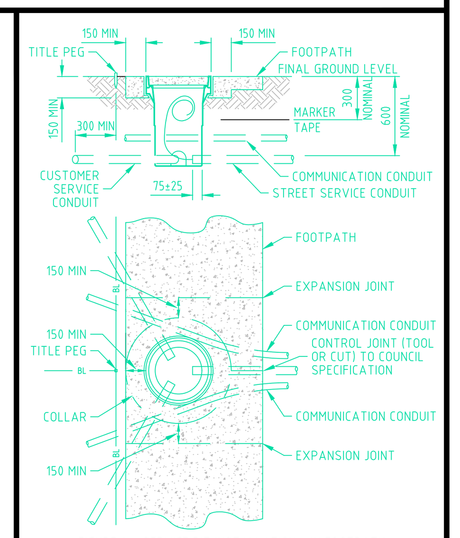


FIGURE 4 - SERVICE PIT INSTALLATION - IN FOOTPATH
REFER TO DISTRIBUTION CONSTRUCTION STANDARD GS021

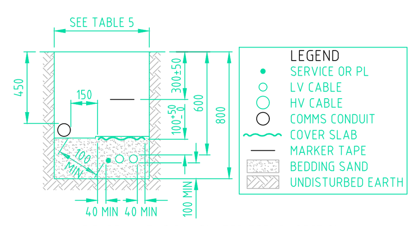


FIGURE 4 - TYPICAL SHARED TRENCH SECTION
REFER TO DISTRIBUTION CONSTRUCTION STANDARD GA211

TABLE 5 - Common Cable Arrangements - Shared Trench (Communications Carrier)

NUMBER OF CABLES	MINIMUM TRENCH WIDTH (mm) WITH 1xP100 COMMUNICATIONS CONDUIT	WITH 1xP100 & 1xP50 COMMUNICATIONS CONDUIT	POLYMERIC SLAB SIZE (mm)
1 LV	600	600	210
2 LV	600	750	300
2 HV	600	750	210
2 HV	900	900	300
1 HV & 1 LV	900	900	210+210
1 HV & 2 LV	900	900	210+300
1 HV & 3 LV	1100	1100	300+300
2 HV & 1 LV	1100	1100	210+300
2 HV & 2 LV	1100	1100	300+300
2 HV & 3 LV	1100	1200	210+210+300

NOTES: THE ABOVE ARRANGEMENTS MAY ALSO INCLUDE SERVICE AND PUBLIC LIGHTING CABLES. HV CABLES REFERRED TO ABOVE ARE 11-22kV.

REFER TO DISTRIBUTION CONSTRUCTION STANDARD GA211

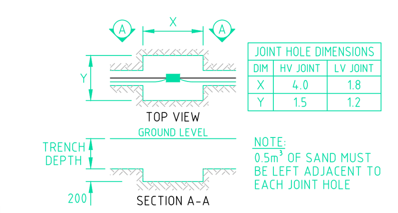


FIGURE 1 - JOINT BAY EXCAVATION DETAILS
REFER TO DISTRIBUTION CONSTRUCTION STANDARD GA211

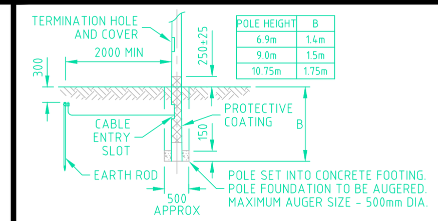


FIGURE 1 - MINOR ROAD STEEL URD LIGHTING POLE (PART)
REFER TO DISTRIBUTION CONSTRUCTION STANDARD FB101

DIAL BEFORE YOU DIG www.1100.com.au

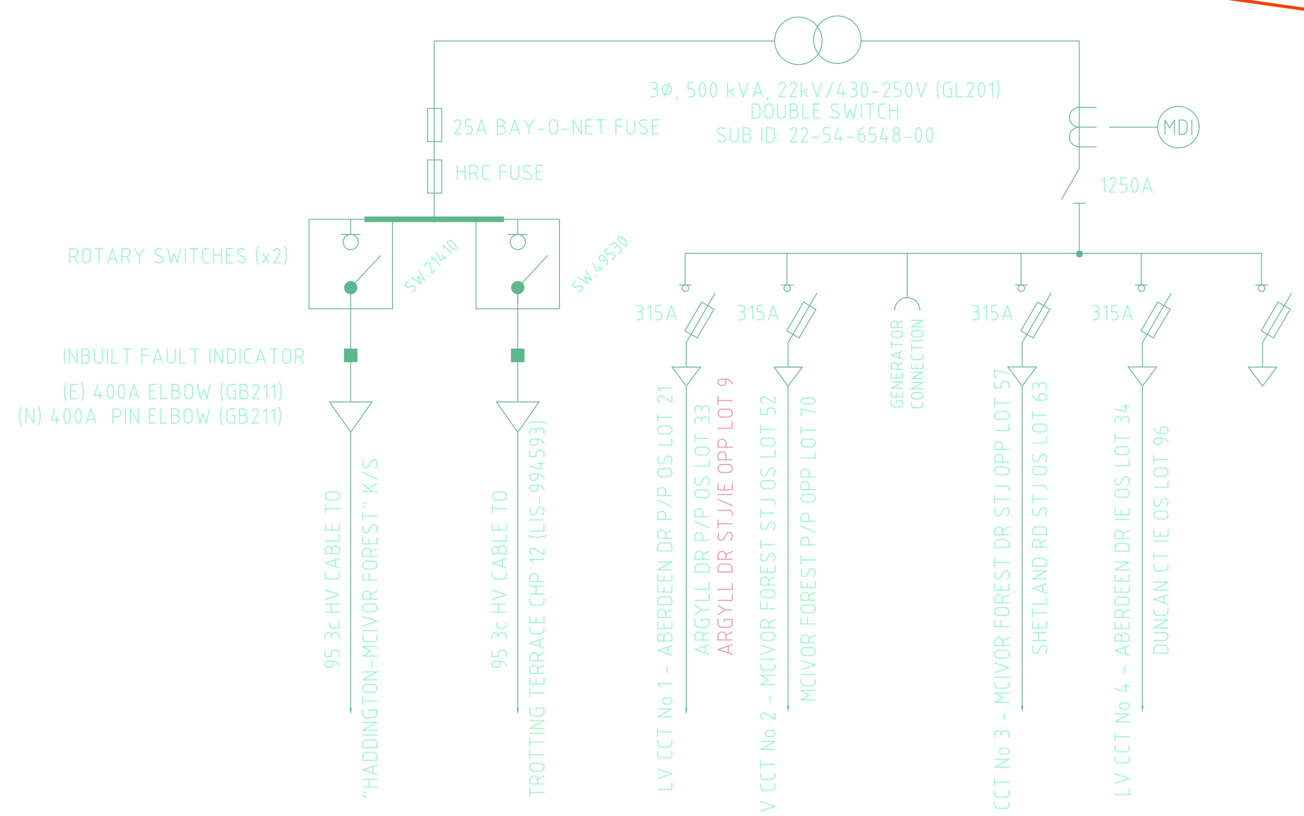
CONSTRUCTION NOTES:

MINIMUM BENDING RADIUS FOR ALL CONDUITS:
ϕ150/ϕ125 CONDUIT = 2040mm
ϕ100 CONDUIT = 900mm

LV CABLE CAN BE PULLED FROM EITHER END
MARKER TAPE INSTALLATION TOLERANCE -50 +150mm.

LV U/G MAINS CABLE OFFSET AS PER SERVICES SCHEDULE

P/L COLUMN CENTER OFFSET 0.9m FROM BACK OF KERB



SUBSTATION CONNECTION DIAGRAM

"ABERDEEN-STIRLING" K/S

LIGHTING IS DESIGNED TO MEET CAT P TO AS/NZS 1158.3.1:2005

CABLE SCHEDULE

CABLE ID	LOCATION	DETAILS	LENGTH
	LV CABLE:		
(N) LV1	FROM MSJ (A) O/S (E) LOT 31 IN ARGYLL DRIVE TO IE (B) OPP LOT 9 ARGYLL DRIVE	240 4c LV s.a.x.	155m
(N) LVS1	SERVICE CABLE	16 4c LV c.x.	150m
(N) PL1	PL CABLE	6 2c LV c.v.	95m

LV TIE IN WORKS

WORKS TO BE COMPLETED BY POWERCOR

- (N) LV MSJ (GS421) OS (E)LOT 31 IN ARGYLL DRIVE
- TEST AND COMMISSION CABLES, PITS AND PL
- UPDATE LV CIRCUIT LABELS IN "LANARK-ABERDEEN" KIOSK

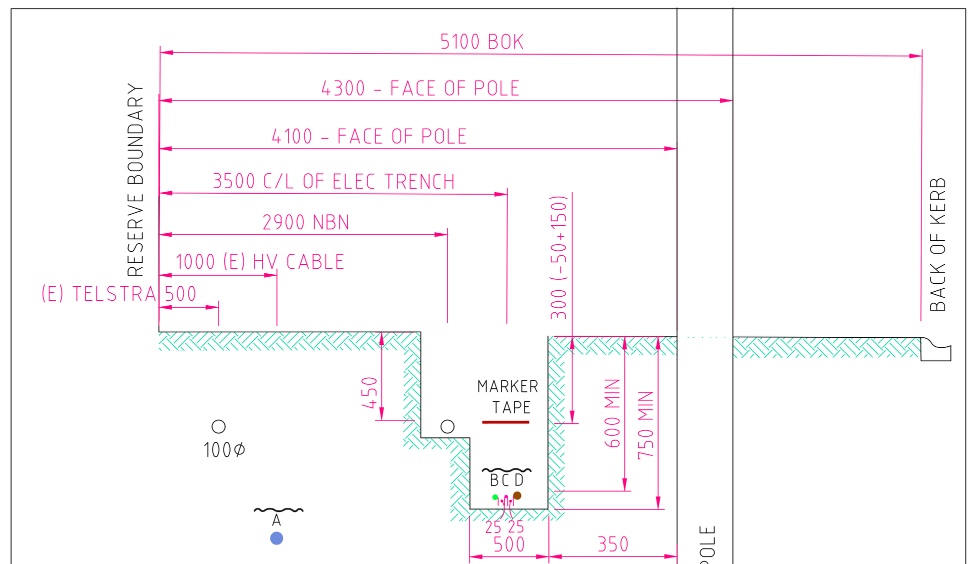
SERVICE LOCATIONS

STREET NAME	GAS		WATER		NBN		(E) TELSTRA		(E) ELECTRICITY		ELECTRICITY	
	OFFSET	SIDE	OFFSET	SIDE	OFFSET	SIDE	OFFSET	SIDE	OFFSET	SIDE	OFFSET	SIDE
ARGYLL DRIVE (LOT 3 TO LOT 9)	2.8	NORTH	3.3	NORTH	2.9	SOUTH	0.5	SOUTH	1.0	SOUTH	3.5	SOUTH

CLEARANCE OF ELECTRICAL CABLES & CONDUITS (UP TO 22kV) TO OTHER UTILITY ASSETSAND STRUCTURES - AUDITING GUIDELINE

	MINIMUM HORIZONTAL OR PARALLEL CLEARANCE (OFFSET) TO CABLE OR CONDUIT		MINIMUM VERTICAL & CROSSING CLEARANCE[4]
WATER	≤ 200 WATER MAIN: 500mm - SEPARATE TRENCH 300mm - SHARED TRENCH	> 200 TO ≤ 375mm WATER MAIN[5] 1000mm - SEPARATE TRENCH 600mm - SHARED TRENCH	225mm
GAS	≤ 50mm GAS PIPE: 300mm	≥ 50mm GAS PIPE: 500mm	150mm
COMMUNICATIONS[6]	100mm TO LV CABLE/CONDUIT, 300mm TO HV CABLE/CONDUIT 50mm TO LV COVER SLAB, 250mm TO HV COVER SLAB		100mm LV, 300mm HV
STREET LIGHT POLES	300mm TO ALL OTHER ASSETS		N/A
STORM WATER PIPE	300mm		100mm LV, 300mm HV
OTHER ASSETS/ STRUCTURES[7]	100mm LV, 300mm HV		100mm LV, 300mm HV

NOTES:
1. ALL SPECIFIED DISTANCES ARE THE MINIMUM REQUIREMENT MEASURED BETWEEN ASSET EDGES OR FACES
2. SPECIFIED CLEARANCE APPLIES TO BOTH LV AND HV ELECTRICAL ASSETS WHERE NOT NOTED
3. ANY VARIATIONS TO THESE MINIMUM CLEARANCES MUST HAVE PRIOR WRITTEN APPROVAL FROM THE CitiPOWER/ POWERCOR RESPONSIBLE OFFICER AND/OR MANAGER TECHNICAL STANDARDS
4. CROSSING CLEARANCES DOCUMENTED ARE TO THE ELECTRICAL CABLE OR CONDUIT. THE MINIMUM CROSSING CLEARANCE ABOVE CABLE COVER SLABS SHALL BE 50mm TO LV & 250mm TO HV COVER SLABS FOR COMMUNICATION CABLES; 175mm TO WATER; 100mm TO GAS ETC.
5. LARGER PIPE SIZES MAY REQUIRE ADDITIONAL CLEARANCES - CONSULT RELEVANT WATER AUTHORITY
6. INCLUDES PROPERTY LEAD-IN CONDUITS
7. INCLUDES STORM WATER PITS, SEWER INSPECTION POINT SHAFTS ETC. (ALL CABLE JOINTS MINIMUM 300mm CLEARANCE)



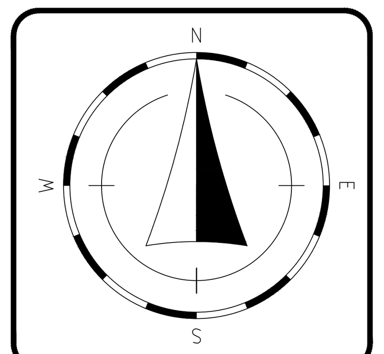
SECTION A-A

N.T.S

CONDUIT/CABLE SCHEDULE

ID	HD PVC	CABLE
A	-	(E)95 3c HV
B	-	(N) 16 4c LV
C	-	(N) 6 2c LV c.v.
D	-	(N) 240 4c LV

REFERENCE	
PROJECT NUMBER	5124867
ROAD DIRECTORY	VR 608 K10
GIS MAP REF.	MAP 149-21 : E4
MAP PROJECTION	MGA 55
FEEDER / SWITCHING ZONE	BG0013 / SWZ-5475757
REFERENCE DRAWING	N/A
REFERENCE DRAWING	N/A
PROJECT MANAGER	MICHAEL BOWDEN
DEVELOPER / No. OF LOTS	MC IVOR FOREST PTY LTD / 9 LOTS



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5.0 0 5.0 10.0 15.0 20.0 25.0 30.0

LENGTHS ARE IN METRES

SCALE: 1:500

REVISION			
DRAWING NUMBER	PCA40 5124867	1	SHEET 1 OF 1

ARGYLL DRIVE JUNORTOUN
UG DETAIL PLAN - URD
MC IVOR FOREST ESTATE STAGE 24
DETAIL DESIGN

DRAWN	DRAFTING CHECK	DESIGNER	DESIGN APPROVAL	PROJECT MANAGER
SPIIRE(DH) 05/05/20	J.DUPCINOV 18/06/2020	SPIIRE (DH) 05/05/20	J.DUPCINOV 18/06/2020	M.BOWDEN 23/06/2020

LEGEND

GENERAL: BL BOUNDARY LINE; BOK BACK OF KERB; FOK FACE OF KERB; LOK LIP OF KERB; STORM WATER PIT; (56096) POLE NUMBER; 609 PROPERTY NUMBER; Lot 23 LOT NUMBER; CONDUIT - OCCUPIED; CONDUIT - SPARE

EXISTING: HV CABLE; LV MAINS CABLE; LV SERVICE CABLE; PUBLIC LIGHTING CABLE; HV STRAIGHT JOINT; HV TEE JOINT; HV SEALED END; HV CUT END; LV STRAIGHT JOINT; LV TEE JOINT; LV SERV TEE JOINT; LV INSULATED END; LV SEALED END; LV CUT END; CONDUIT; SERVICE PIT (TYPICAL); SERVICE PIT (ROADWAY); PILLAR (SERVICE); PILLAR (PARALLELING); 80W MV PL & COLUMN; 150W HPS PL & COLUMN; SUBTRANS POLE; HV POLE; LV POLE (GENERAL); SUBSTATION (POLE); HV CABLE HEAD POLE; LV CABLE HEAD POLE

NEW: HV CABLE; LV MAINS CABLE; LV SERVICE CABLE; PUBLIC LIGHTING CABLE; HV STRAIGHT JOINT; HV TEE JOINT; HV SEALED END; HV CUT END; LV STRAIGHT JOINT; LV TEE JOINT; LV SERV TEE JOINT; LV INSULATED END; LV SEALED END; LV CUT END; CONDUIT; SERVICE PIT (TYPICAL); SERVICE PIT (ROADWAY); PILLAR (SERVICE); PILLAR (PARALLELING); 80W MV PL & COLUMN; 150W HPS PL & COLUMN; SUBTRANS POLE; HV POLE; LV POLE (GENERAL); SUBSTATION (POLE); HV CABLE HEAD POLE; LV CABLE HEAD POLE

OTHER SERVICES: D DRAIN; / FENCE; G GAS MAIN; S SEWER; T TELCO; W WATER MAIN

CAUTIONS

LIVE POWERCOR 22KV CABLE ON SOUTH SIDE OF ARGYLL DRIVE

FOR DETAILS OF CONDITIONS REFER TO DIAL BEFORE YOU DIG INFORMATION

Electricity Networks - EN UG CONSTRUCTION PLAN URD A1 - V1.0

A1