

SCONE CBD REVITALISATION ELECTRICAL SERVICES

DRAWING SCHEDULE

23167-E00 - COVER SHEET
23167-E01 - LEGEND SHEET
23167-E02 - ELECTRICAL LAYOUT SHEET 1 OF 4
23167-E03 - ELECTRICAL LAYOUT SHEET 2 OF 4
23167-E04 - ELECTRICAL LAYOUT SHEET 3 OF 4
23167-E05 - ELECTRICAL LAYOUT SHEET 4 OF 4
23167-E06 - SINGLE LINE & CONTROL DIAGRAM

[illegible]

LEGEND

- | | |
|---|--|
|  | P5 SHARED POWER / COMMS PIT |
|  | SHARED POWER / COMMS PIT - SIZED AS NECESSARY |
|  | ADAPTABLE ENCLOSURE - BR ENCLOSURE MONARCH IP
316SS IP13091/S
- 2 x DOUBLE SOCKET OUTLETS IP RATED |
|  | ELECTRICAL SWITCHBOARD - FREE STANDING STAINLESS STEEL |
|  | PERMANENT CONNECTION ISOLATOR
(No. OF PHASES & RATING SHOWN) |
|  | UNDERGROUND CONDUIT |
|  | CCTV IP RATED - NOTE 6 |
|  | CONSUMER PILLAR |

CONDUIT GROUPS

- | | |
|---------|-------------------------|
| GROUP 1 | - 1x50mm HDUPVC CONDUIT |
| | - 1x50mm COMMS CONDUIT |
| GROUP 2 | - 2x63mm HDUPVC CONDUIT |
| | - 2x50mm COMMS CONDUIT |
| GROUP 3 | - 2x63mm HDUPVC CONDUIT |
| | - 1x50mm HDUPVC CONDUIT |
| GROUP 4 | - 2x50mm COMMS CONDUIT |
| | - 2x63mm HDUPVC CONDUIT |
| GROUP 5 | - 2x50mm HDUPVC CONDUIT |
| | - 2x50mm COMMS CONDUIT |
| GROUP 6 | - 3x63mm HDUPVC CONDUIT |
| | - 3x50mm HDUPVC CONDUIT |
| GROUP 7 | - 2x50mm COMMS CONDUIT |
| | - 1x32mm HDUPVC CONDUIT |
| GROUP 7 | - 5x63mm HDUPVC CONDUIT |
| | - 3x50mm HDUPVC CONDUIT |
| | - 2x50mm COMMS CONDUIT |

SMART POLE LIGHTING SCHEDULE

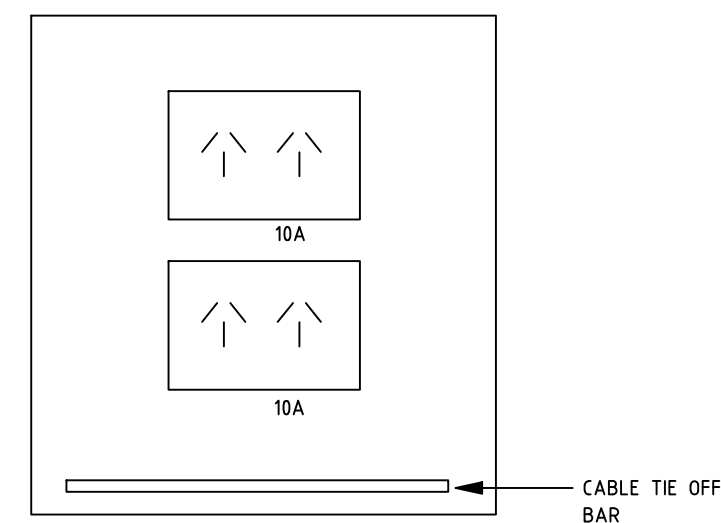
SYMBOL	DESCRIPTION	MANUFACTURER	AUTHORITY	NOTES	LUMINAIRE	OTHER
	LED POST TOP LUMINAIRE MOUNTED ON SMART POLE	CURRENT LIGHTING - BEACON	UPPER HUNTER SHIRE COUNCIL	7m POLE WITH 1m OUTREACH ARM. REFER TO TYPICAL POLE DETAIL FOR HEIGHTS	BEACON URBAN 18L-50-3K7-2	- WIFI - CCTV WHERE SHOWN
	LED POST TOP LUMINAIRE MOUNTED ON SMART POLE	CURRENT LIGHTING - BEACON	UPPER HUNTER SHIRE COUNCIL	7m POLE WITH DUAL 1m OUTREACH ARM. REFER TO TYPICAL POLE DETAIL FOR HEIGHTS	2 x BEACON URBAN 18L-50-3K7-2	- WIFI - CCTV WHERE SHOWN
	LED POST TOP LUMINAIRE MOUNTED ON SMART POLE	CURRENT LIGHTING - BEACON	UPPER HUNTER SHIRE COUNCIL	4m POLE WITH 0.6m OUTREACH ARM. REFER TO TYPICAL POLE DETAIL FOR HEIGHTS	BEACON URBAN 18L-50-3K7-5QW	- WIFI - CCTV WHERE SHOWN
	LED POST TOP LUMINAIRE MOUNTED ON SMART POLE	CURRENT LIGHTING - BEACON	UPPER HUNTER SHIRE COUNCIL	4m POLE WITH 0.6m OUTREACH ARM. REFER TO TYPICAL POLE DETAIL FOR HEIGHTS	BEACON URBAN 18L-50-3K7-2	- WIFI - CCTV WHERE SHOWN

NOTES

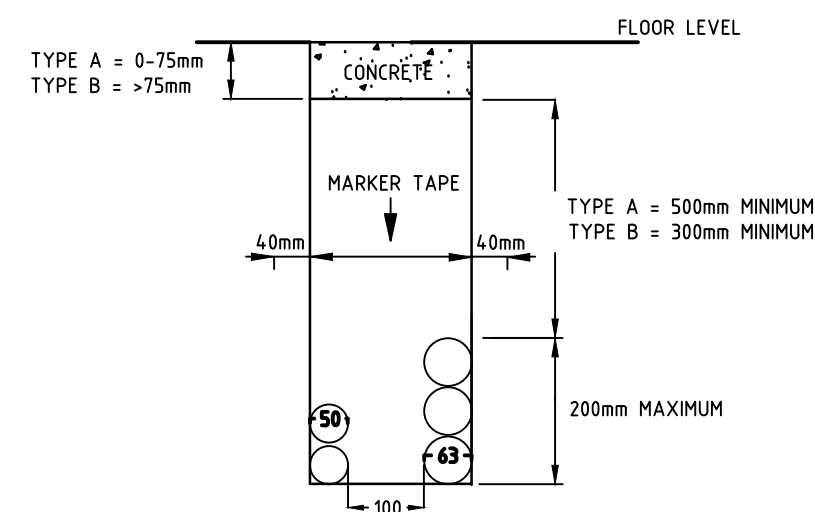
1. DRAWINGS TO BE READ IN CONJUNCTION WITH LANDSCAPE ARCHITECTURAL AND OTHER SERVICES LAYOUTS.
2. PATHWAY LIGHTING IS CALCULATED TO AS1158 SUBCATEGORY PP3, ROAD LIGHTING IS CALCULATED TO AS1158 SUBCATEGORY PR3 AND LIGHTING NEAR RESIDENTIAL BUILDINGS HAS BEEN DESIGNED TO COMPLY AS4282 - CONTROL OF THE OBTRUSIVE EFFECTS OF OUTDOOR LIGHTING.
3. CONDUITS TO BE BURIED AT MINIMUM DEPTHS AS PER AS/NZS3000 TABLE 3.6.
 - 500mm MINIMUM, WHERE SURFACE COVERING IS <75mm CONCRETE
 - 300mm MINIMUM, WHERE SURFACE COVERING IS >75mm CONCRETE
 - 1000mm MINIMUM, WHERE BURIED UNDER A RMS ROAD COVERING
4. WHERE POWER (LV) AND COMMS (ELV) SHARE PITS ALLOW FOR MINIMUM SEPARATION BETWEEN CABLES, AND CABLE SLEEVES IF REQUIRED.
5. CONDUIT ROUTES AND PIT LOCATIONS ARE DIAGRAMMATIC / INDICATIVE ONLY. COORDINATE ROUTES WITH OTHER SERVICES DRAWINGS AND WITH SERVICES CONTRACTORS ONSITE.
6. REFER TO CONTRACT LT CCTV LAYOUT PLAN FOR CCTV MAKE/MODEL, MOUNTING HEIGHTS AND AIMING ANGLES.
7. FINAL COORDINATION OF ALL ROAD CROSSINGS TO BE COMPLETED WITH CIVIL AND ARCHITECTURAL SERVICES DRAWINGS AND ONSITE.
8. PROVIDE 0-10V DIMMING MECHANISM/POD IN THE BASE OF ALL NEW LIGHT POLES FOR MANUAL DIMMING CONTROL.
9. ALLOW TO UNCOVER PAVEMENT AREAS LINKING MEDIAN.
10. ELV AND LV CABLES MUST MAINTAIN APPROPRIATE SEGREGATION WITHIN SHARED PIT. THIS CAN BE DONE BY DISTANCE OR BARRIER.

SERVICES DISTANCES TYPICAL

MINIMUM SEPARATION DISTANCES BETWEEN SERVICES				
	POTABLE WATER	SEWER	STORMWATER	COMMS
POWER	100 (<65dia) 300 (>65dia)	100	100	100
COMMS	100	100	100	100

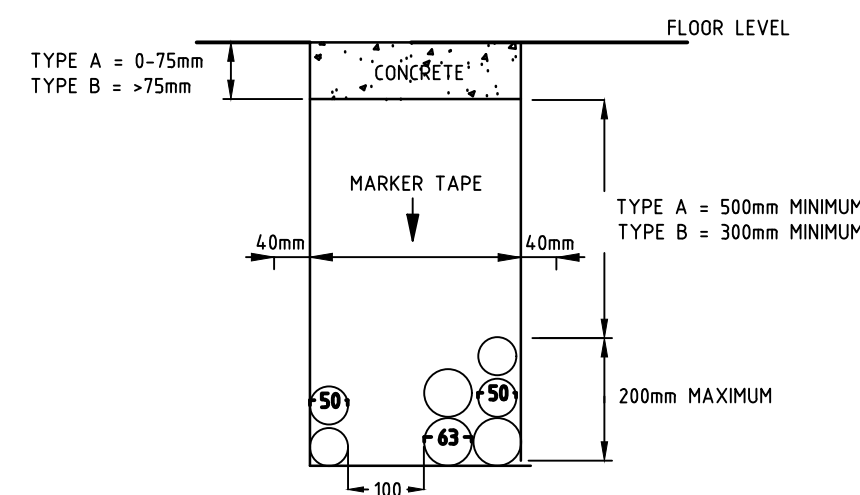


TYPICAL ENCLOSURE A1
INTERNAL LAYOUT
N.T.S.



TYPICAL TRENCH - GROUP 2

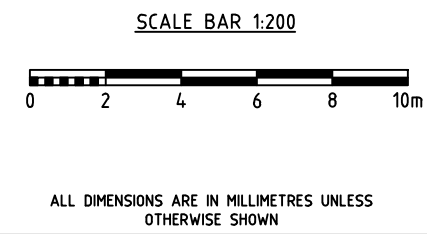
REFER TO AS/NSZ3008-2018 FOR FURTHER
DETAILS FOR TRENCHING AND SPACING
REQUIREMENTS BETWEEN CONDUITS
N.T.S



TYPICAL TRENCH - GROUP 5

REFER TO AS/NSZ3008-2018 FOR FURTHER
DETAILS FOR TRENCHING AND SPACING
REQUIREMENTS BETWEEN CONDUITS
N.T.S

0	ISSUED FOR CONSTRUCTION	LM	DM	31.07.23
B	DRAFT ISSUE	LM	DM	25.07.23
A	APPROVAL ISSUE	LM	DM	07.07.23
REV	REVISION DETAILS	BY	APP.	DATE



Completion of the Drawing Status is evidence that the design has been verified as conforming to the requirements of the Project Quality Plan			
DRAWING STATUS	Reviewed By:	Signature	Date
Preliminary			
For Information Only			
For Approval	DM	DM	07.07.23
For Tender			
For Construction	PM	PM	31.07.23

DESIGN BY:

ELECTRICAL PROJECTS AUSTRALIA P/U

(Pty Ltd / A.C.N. 053 112 502)

386 Maitland Road,
P.O. Box 365
MAYFIELD NSW 2304
PHONE: (02) 4967 5999
FAX: (02) 4967 5933



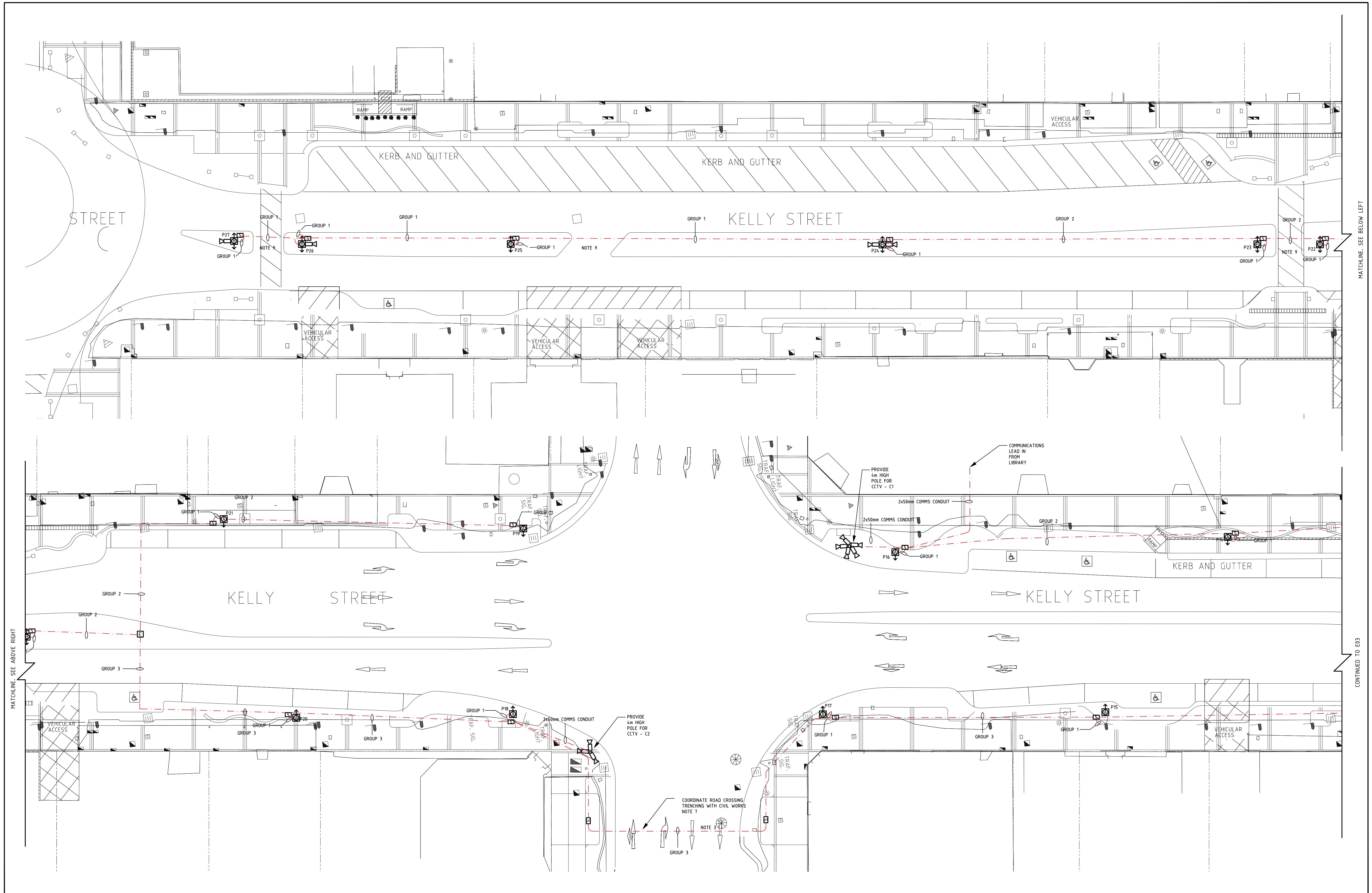
PROJECT:
SCONE CBD
REVITALISATION

CLIENT:
UPPER HUNTER SHIRE COUNCIL

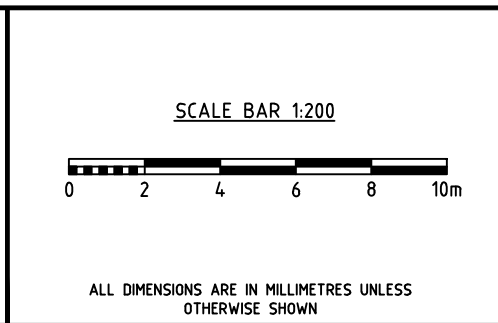
LOCATION:
KELLY STREET,
SCONE NSW 2337

DRAWING:
LEGEND SHEET

DATE: 07.07.23 DRAWN: LM
SCALE: 1:200@A1 DESIGN: DM
PROJECT No. DRAWING No: ISSUE
23167 E01 0



REV	DESCRIPTION	BY	APP.	DATE
0	ISSUED FOR CONSTRUCTION	LM	DM	31.07.23
B	DRAFT ISSUE	LM	DM	25.07.23
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	REVISION DETAILS			



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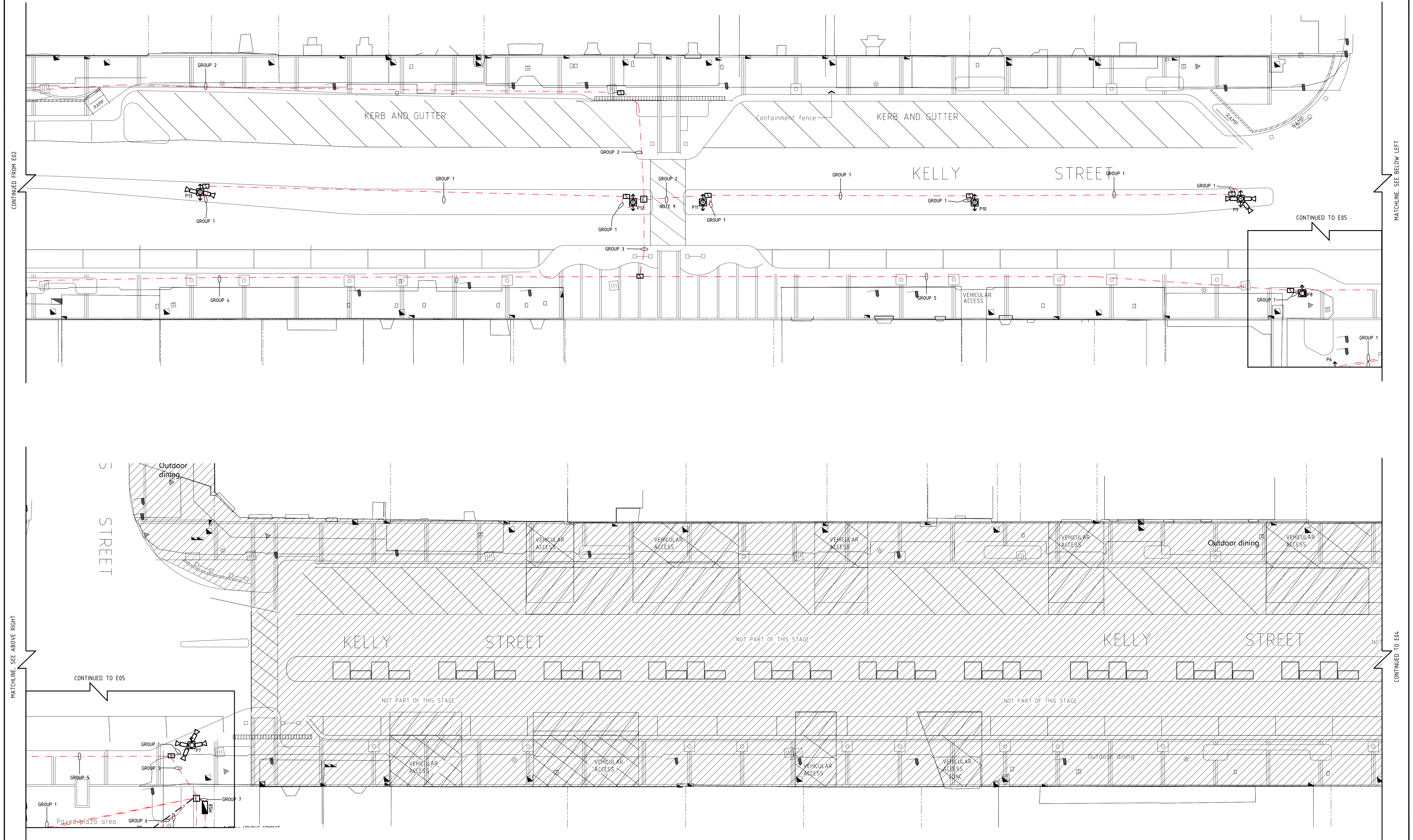
386 Maitland Road,
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PROJECT:
SCONE CBD
REVITALISATION

CLIENT:
UPPER HUNTER SHIRE COUNCIL

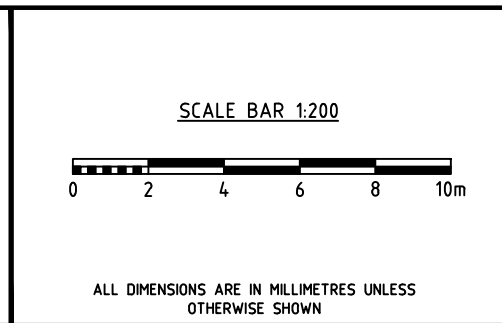
LOCATION:
KELLY STREET,
SCONE NSW 2337

DATE: 07.07.23
SCALE: 1:200@A1
PROJECT No. 23167
DRAWN: LM
DESIGN: DM
DRAWING:
ELECTRICAL LAYOUT
SHEET 1 OF 4
DRAWING No. E02
ISSUE: 0



REV	DESCRIPTION	BY	APP.	DATE
0	ISSUED FOR CONSTRUCTION	LM	DM	31.07.23
B	DRAFT ISSUE	LM	DM	25.07.23
A	APPROVAL ISSUE	LM	DM	07.07.23

LM	DM	31.07.23
LM	DM	25.07.23
LM	DM	07.07.23



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Preliminary			
For Information Only			
For Approval	DM	DM	07.07.23
For Tender			
For Construction	PM	PM	31.07.23

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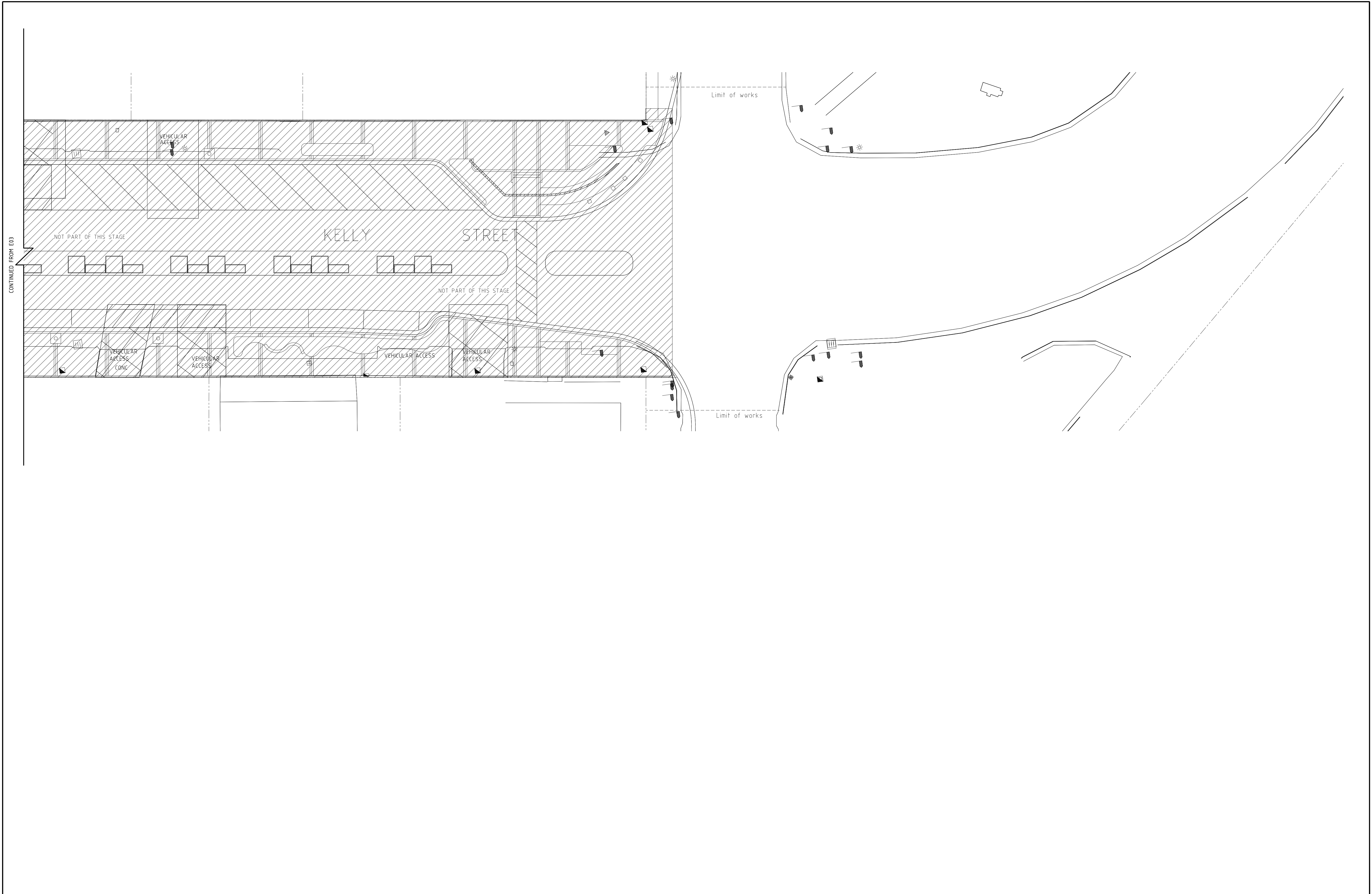
386 Maitland Road,
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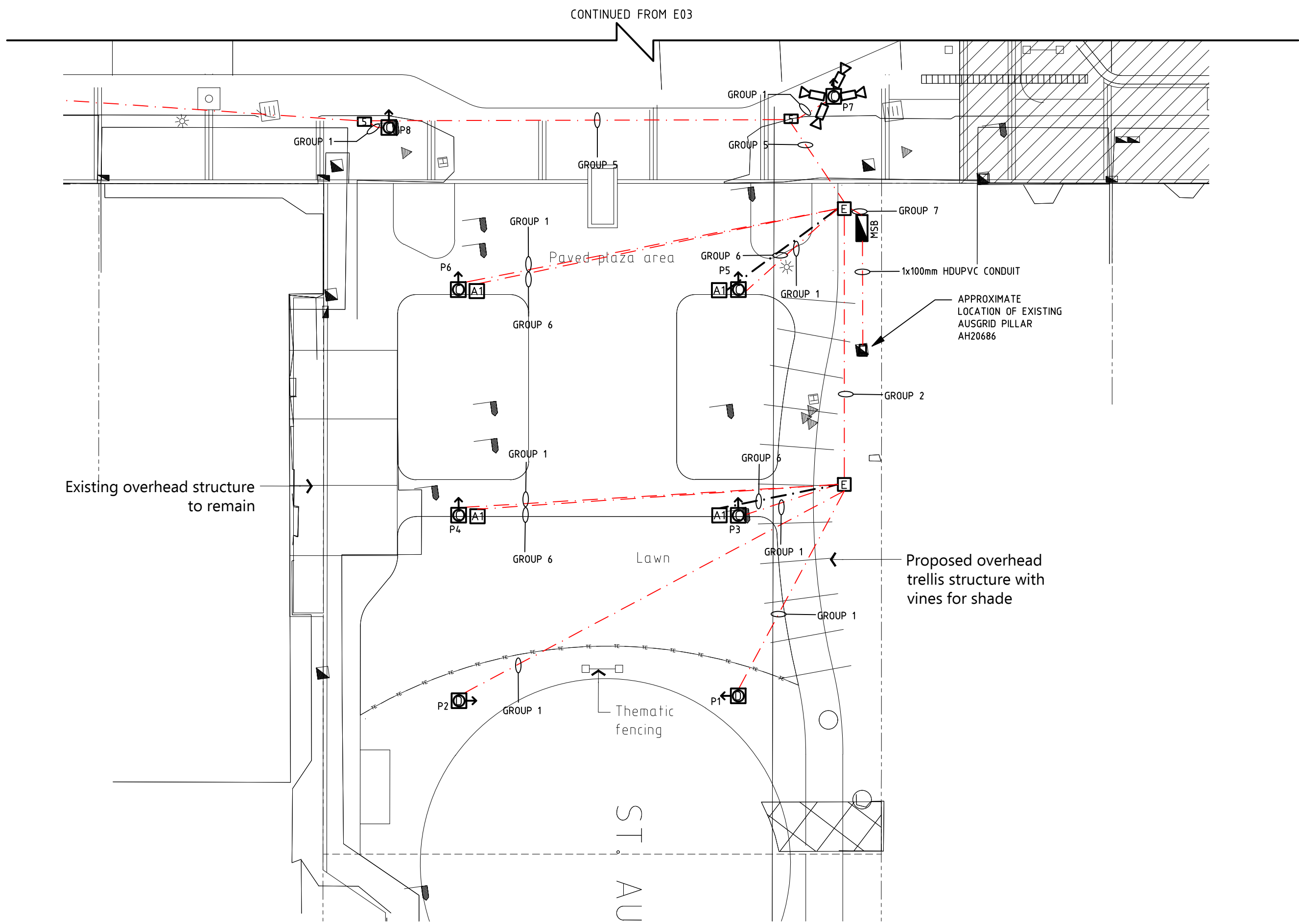
PROJECT:
**SCONE CBD
REVITALISATION**

CLIENT:
UPPER HUNTER SHIRE COUNCIL

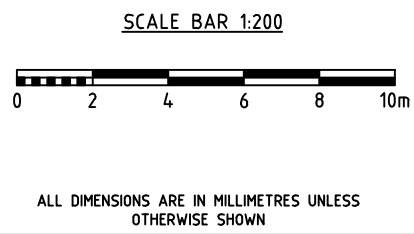
LOCATION:
**KELLY STREET,
SCONE NSW 2337**

DATE: 07.07.23
SCALE: 1:200@A1
PROJECT No. **23167**
DRAWN: LM
DESIGN: DM
DRAWING:
**ELECTRICAL LAYOUT
SHEET 2 OF 4**
DRAWING No. **E03**
ISSUE: **0**





0	ISSUED FOR CONSTRUCTION	LM	DM	31.07.23
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REV	REVISION DETAILS	BY	APP.	DATE



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For Information Only			
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For Tender			
For Construction	PM	PM	31.07.23

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PROJECT:
SCONE CBD
REVITALISATION

CLIENT:
UPPER HUNTER SHIRE COUNCIL

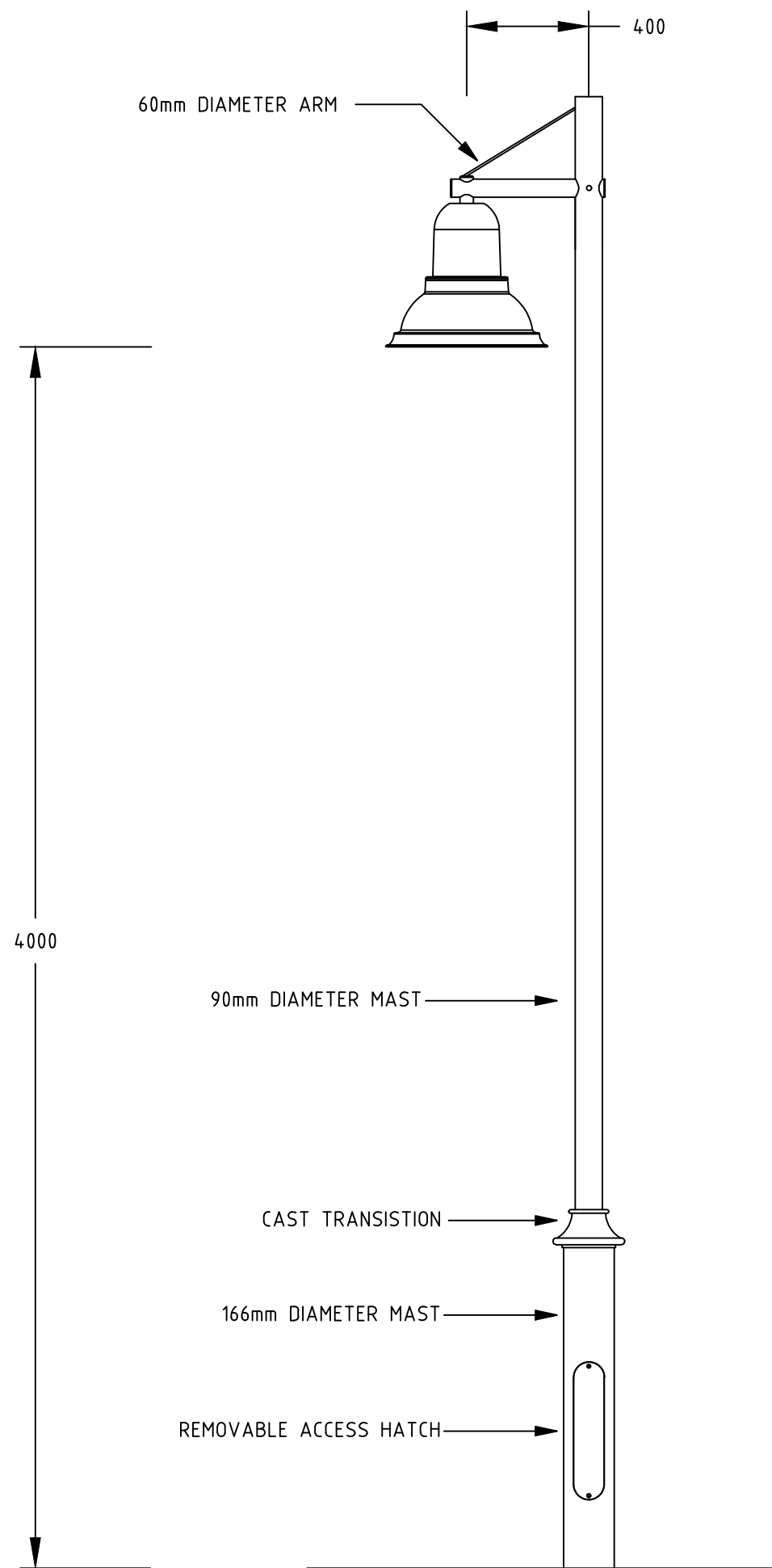
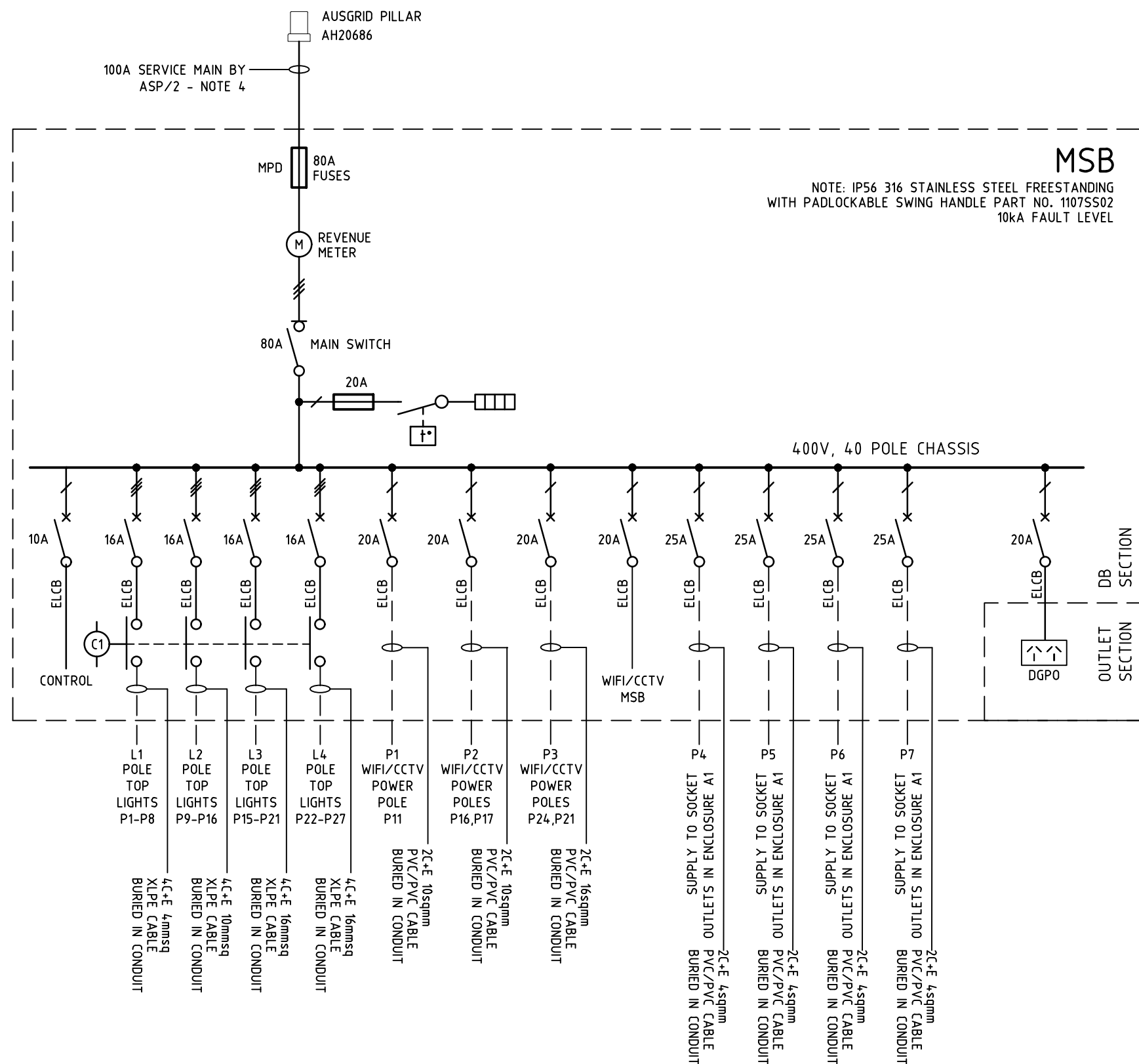
LOCATION:
KELLY STREET,
SCONE NSW 2337

DRAWING:
ELECTRICAL LAYOUT
SHEET 4 OF 4

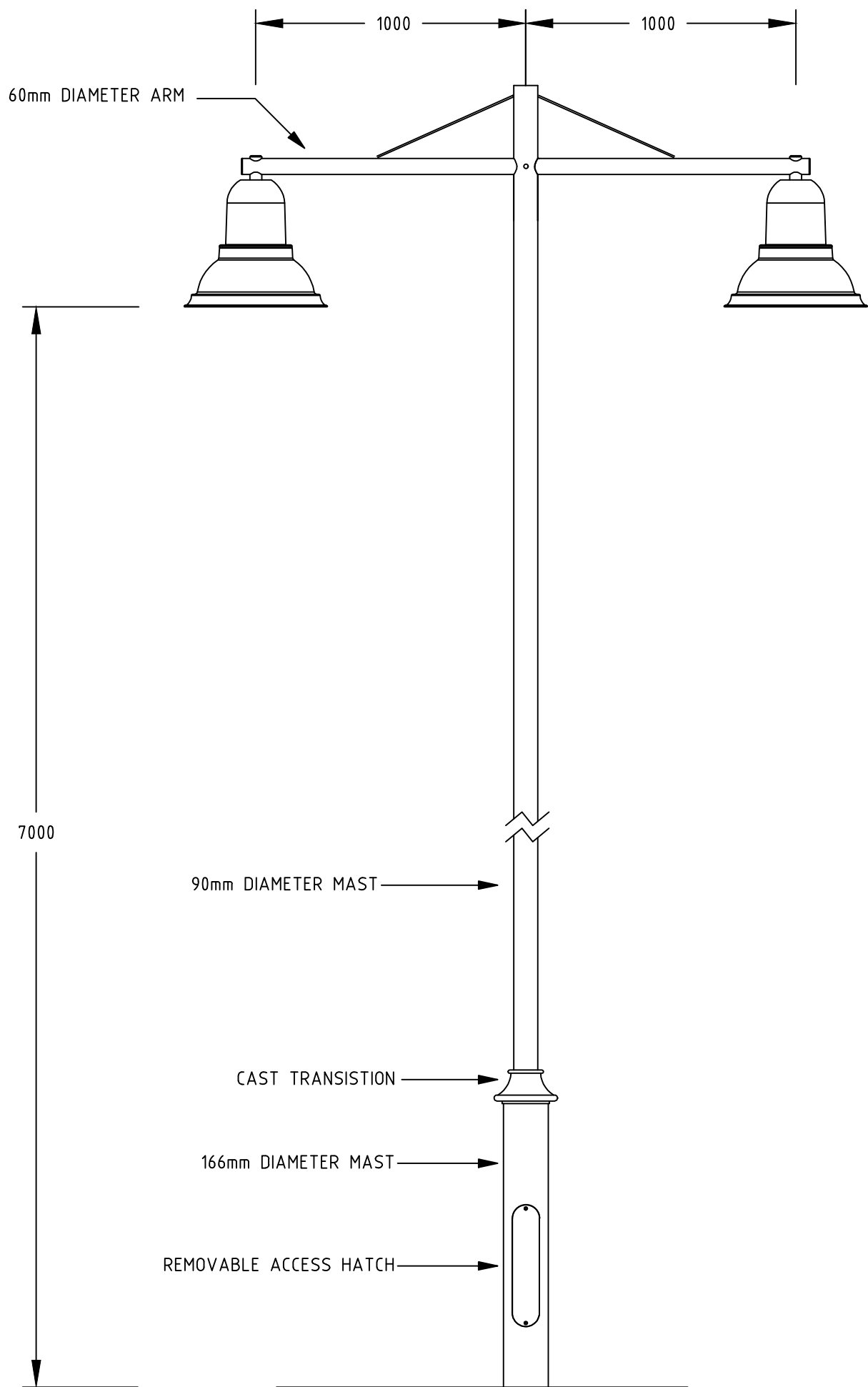
DATE: 07.07.23 DRAWN: LM

SCALE: 1:200@A1 DESIGN: DM

PROJECT No. 23167 DRAWING No. E05 ISSUE: 0

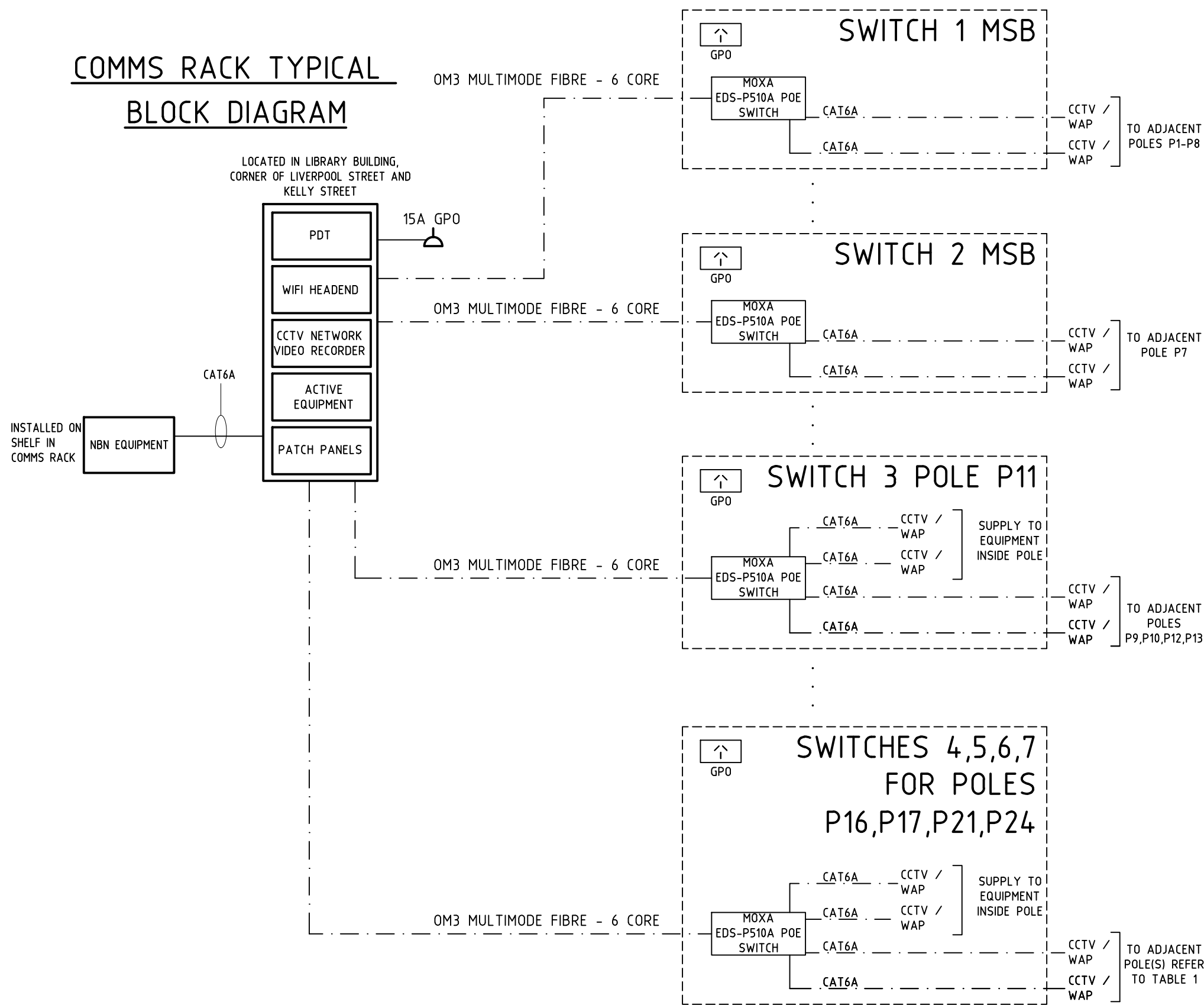


TYPICAL POLE DETAIL - TYPE A & B
SCALE 1:50



TYPICAL POLE DETAIL - TYPE C & D
SCALE N.T.S.

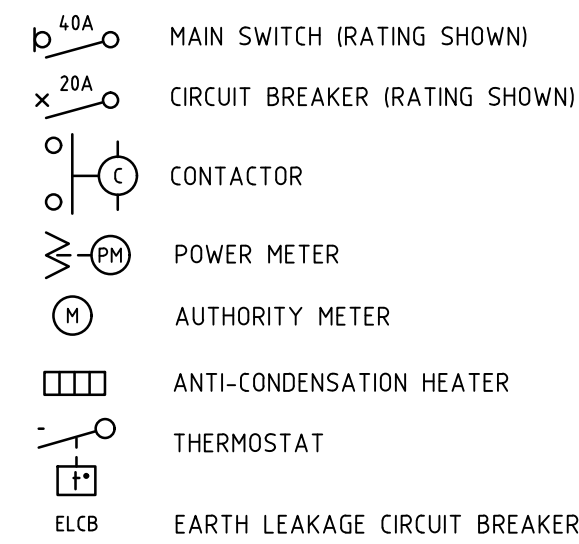
COMMS RACK TYPICAL BLOCK DIAGRAM



NOTES

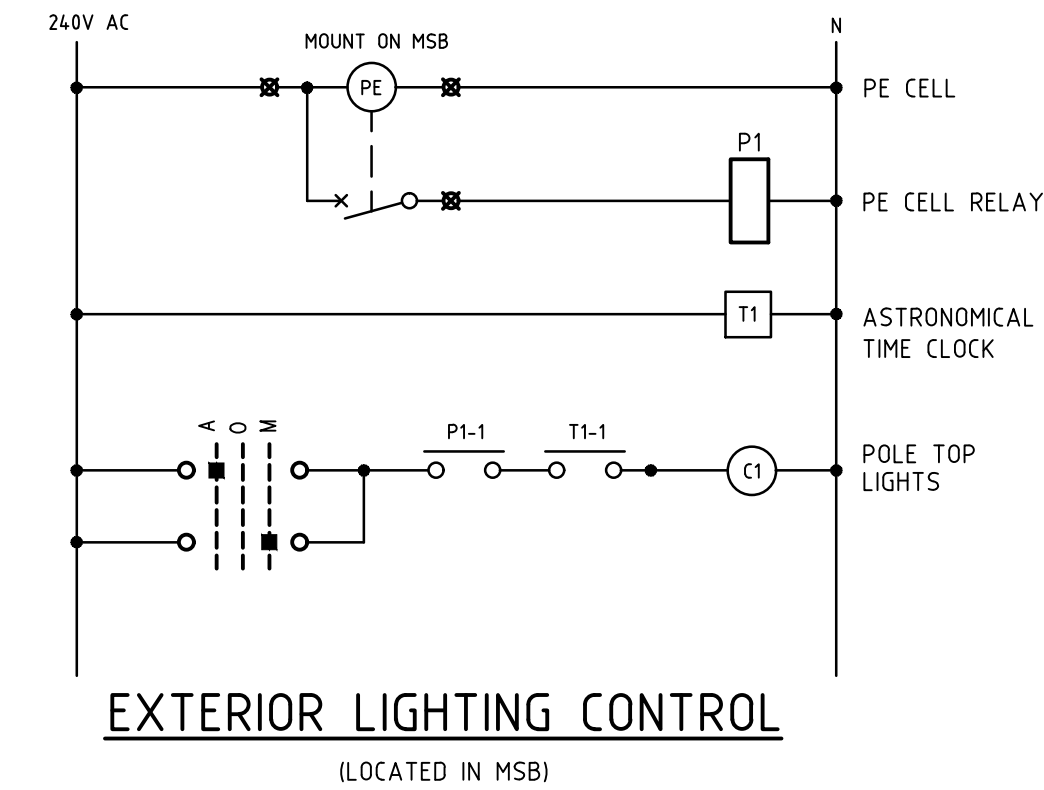
- ALLOW TO RETICULATE FROM FIBRE COMMUNICATIONS RETICULATION NETWORK TO LOCAL POE EQUIPMENT AS PER TABLE 1.
- 15A GPO FOR COMMS RACK POWER TO BE SUPPLIED FROM LIBRARY EDB - ALLOW NEW RCD CIRCUIT.

SINGLE LINE DIAGRAM LEGEND



NOTES

- METERING TO COMPLY WITH SUPPLY AUTHORITY REQUIREMENTS.
- USED REINFORCED CASCADING AND ENHANCED DISCRIMINATION FOR CIRCUIT BREAKER SELECTIVITY SO THAT MINIATURE CIRCUIT BREAKERS 6-10KA MAY BE USED.
- CONNECT THE LIGHTING CIRCUITS L1-L4 TO POWER USING ALTERNATING PHASES FOR THE LENGTH OF THE CONNECTED CIRCUIT.
- EXACT SERVICE SIZE TO BE CONFIRMED BY ASP/2.
- MSB AND POLES WITH POE SWITCH INSTALLED MUST ALSO HAVE A 48VDC 6A POWER SUPPLY AND GPO INSTALLED FOR POE SWITCH POWER SUPPLY.



NO	POWER OVER ETHERNET NETWORK SWITCHES		
	POE SWITCH LOCATIONS (Pn)	WIFI	CCTV
1	MSB	P1-P8	-
2	MSB	-	P7
3	P11	P9,P10,P11,P12,P13	P9,P13
4	P16	P14,P16	C1
5	P17	P15,P17,P18,P20	C2
6	P21	P19,P21,P22,P23	-
7	P24	P24,P25,P26,P27	P24,P26,P27

TABLE 1 - COMMUNICATIONS RETICULATION

REV	REVISION DETAILS	BY	APP.	DATE
0	ISSUED FOR CONSTRUCTION	LM	DM	31.07.23
B	DRAFT ISSUE	LM	DM	25.07.23
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SCONE CBD
REVITALISATION

CLIENT:
UPPER HUNTER SHIRE COUNCIL

LOCATION:
SCONE STREET,
SCONE NSW 2337

DRAWING:
SINGLE LINE & CONTROL DIAGRAM

DATE: 07.07.23

DRAWN: LM

SCALE: NTS@A1

DESIGN: DM

PROJECT No.
23167

DRAWING No.
E06

ISSUE:
0