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- THE REQUIREMENTS HEREIN SHALL BE COMPLIED WITH, WHETHER BY THE HEAD CONTRACTOR OR ELECTRICAL SUB-CONTRACTOR. CONTRACTORS SHOULD BE EXPERIENCED IN THIS WORK AND SHALL MEET LISTED WP QUALIFICATIONS.
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- ALL WORKS SHALL COMPLY WITH WESTERN POWER (WP) POLICIES, INCLUDING THE UDS, WASIR, DDC, DSPM, DCSD, UCIM AND EARTHING FAQ. ALL MATERIALS USED MUST BE APPROVED WESTERN POWER MATERIALS.
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- VERIFY ALL MATERIAL QUANTITIES AGAINST SITE CONDITIONS PRIOR TO TENDER AND ADVISE THE PRINCIPAL OF ANY VARIATIONS IN TENDER OFFER.
- PREPARE AND COMPLY WITH A SITE SAFETY MANAGEMENT PLAN INCORPORATING REQUIREMENTS OF WP'S ESSR AND ALL APPLICABLE LAWS & REGULATIONS.
- FOR ALL WORKS IN PROXIMITY OF EX SERVICES AND ASSETS, ACQUIRE CURRENT DBYD DRAWINGS, LOCATE UG SERVICES AS NECESSARY USING APPROPRIATE TECHNIQUES (GROUND PENETRATING RADAR, HAND & VACUUM POT-HOLING ETC). COMPLY WITH THE REQUIREMENTS OF ALL SERVICE PROVIDERS FOR WORKS IN PROXIMITY TO THEIR SERVICES AND ACQUIRE REQUIRED PERMITS FOR WORK. PLAN FOR AND PROTECT EXISTING SERVICES IN THE VICINITY OF ALL WORKS. DO NOT ENCRoACH MINIMUM APPROACH DISTANCES FOR UG OR OH SERVICES.
- LIASE WITH WP AS REQUIRED. ATTEND PRE-HANDOVER INSPECTION WITH WP AND RECTIFY ALL DEFECTS. COMPLETE HANDOVER PROCESS FOR ALL NETWORK TO WP.
- LIASE WITH SUPERINTENDENT AND NOMINATED ELECTRICAL INSPECTOR AS REQUIRED. HOST A PRE-START MEETING AND FACILITATE PERIODIC ON SITE WORK PROGRESS GA INSPECTIONS WITH SUPERINTENDENT AND/OR INSPECTOR.
- TRENCH, BACKFILL AND RE-INSTATE (MAKE GOOD) ALL SURFACES.
- LEAVE SUFFICIENT CABLE COILED AT ALL INTERFACE POINTS (INCLUDING JOINTS, PILLAR TERMINATIONS & POLE TERMINATIONS) TO ALLOW WP TO COMPLETE INTERFACE WORKS. INSTALL END CAPS TO PROTECT CABLE. BRING NEW CABLE ADJACENT TO EXISTING CABLE AND POT-HOLE TO EXPOSE EXISTING CABLES FOR WP AT HANDOVER.
- WHERE RETAINING WALLS OR ANY WALL THAT COULD BE A COLLAPSE RISK DURING EXCAVATION ARE PROPOSED, INSTALL ALL ADJACENT CABLES IN CONDUITS, WHERE SUCH WALLS ARE EXISTING, DRILL CONDUITS PAST WALLS AND HAUL CABLE THROUGH CONDUITS.
- AT ALL POINTS WHERE CABLES ARE NOT IN CONDUIT ADJACENT TO A WALL (BENDS, JOINTS ETC) INSTALL DEEPENED WALL FOOTINGS TO AT LEAST THE DEPTH OF THE ADJACENT CABLES.
- ALL CABLES INSTALLED OUTSIDE OF 0-0.5m ALIGNMENT TO BE IN CONDUIT OR WITH CABLE SLABS ABOVE WHERE REQUIRED.
- INSTALL SUITABLE RUST-FREE DRAW WIRES IN ALL SPARE CONDUITS, INCLUDING CONSUMER-MAINS CONDUITS FROM PILLARS UNDER RETAINING WALLS.
- BORE UNDER EXISTING ROADS AND DRIVEWAYS, HAND PLUNK UNDER FOOTPATHS ETC WHERE SUITABLE.
- STREETLIGHT POLES MUST NOT BE INSTALLED IN FOOTPATHS. PEG POLE LOCATIONS PRIOR TO INSTALL AND NOTIFY THE SUPERINTENDENT OF CLASHES IN ADVANCE.
- STREETLIGHT POLES SHALL BE PLUMB VERTICAL AND GROUND AROUND POLES COMPACTED TO CIVIL SPECIFICATION AFTER INSTALL.
- ERECT STREETLIGHT POLES ONLY AFTER NEARBY EXISTING OVERHEAD POWERLINES ARE REMOVED, WHERE NOTED.
- COMPLETE CLEARING/TRIMMING OF EXISTING VEGETATION AT WP INTERFACE WORKS LOCATIONS.
- COMPLETE ALL TESTING AS PER WP REQUIREMENTS AND PROVIDE TEST DOCUMENTATION AND HANDOVER CHECKLIST TO THE SUPERINTENDENT OR NOMINATED ELECTRICAL INSPECTOR.
- COMPLETE AS CONSTRUCTED PACKAGE TO THE AS PER UDS & PROVIDE TO THE SUPERINTENDENT ENGAGE 3E CONSULTING ENGINEERS TO PREPARE WP COMPLIANT CAD AS CONS DRAWINGS. INCLUDE 3E'S COSTS FOR DRAFTING AS CON DRAWINGS IN TENDER PRICE. MAINTAIN AND PROVIDE COMPLETE CLEAR & LEGIBLE RED-LINE AS CONSTRUCTED DRAWING MARK-UPS TO 3E.
- WHERE NOTED, INSTALL STREETLIGHT ON 2.5m ALIGNMENT

**WESTERN POWER SCOPE OF WORKS**

WP TO COST TO CARRY OUT WORKS DESCRIBED HERE INCLUDING ALL ASSOCIATED WORKS AND SUPPLY OF ALL MATERIALS.

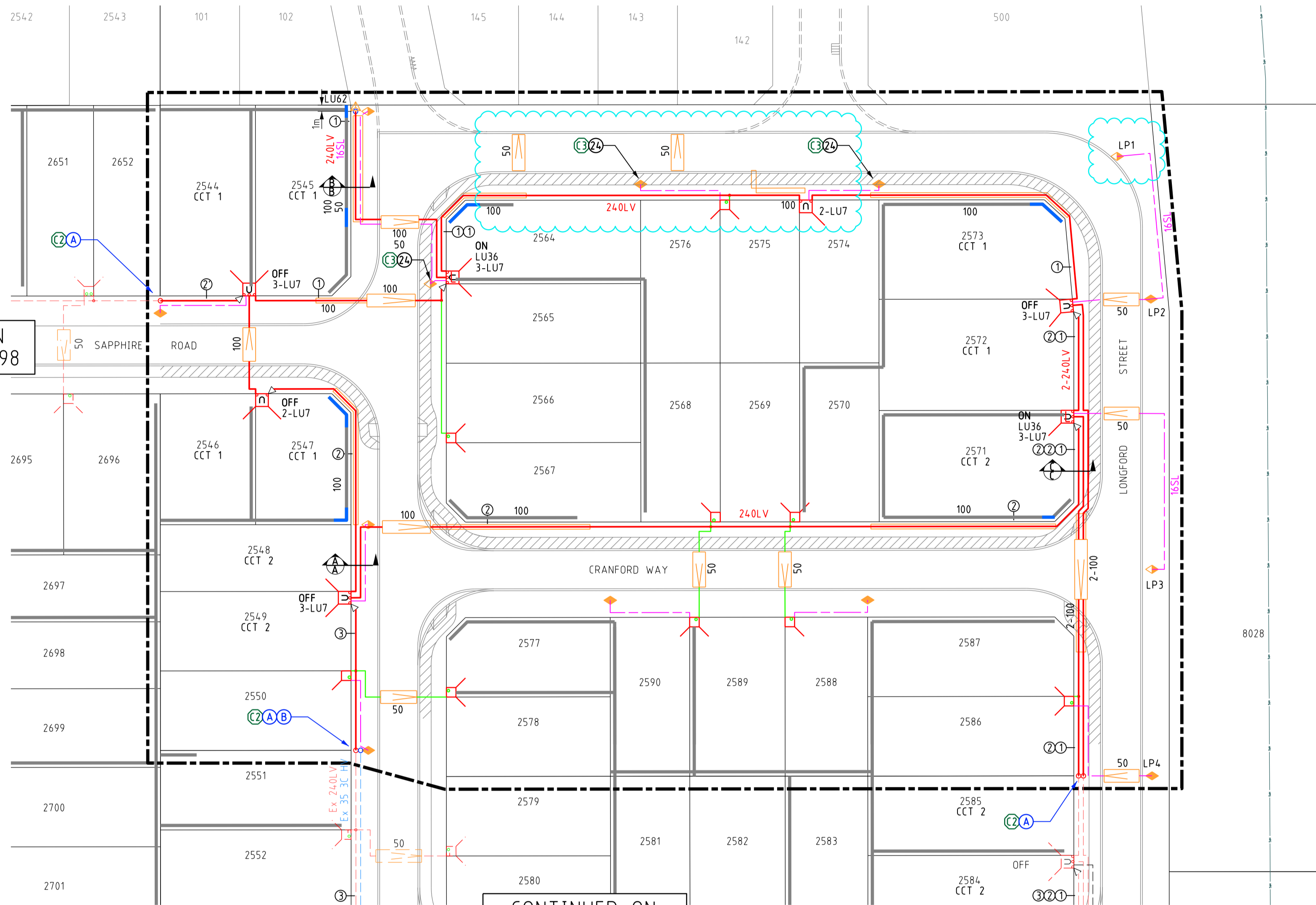
- A** REMOVE EX LES/WORKING END AND STRAIGHT JOINT NEW 240LV CABLE TO EX 240LV CABLE. EXCAVATE & BACKFILL JOINT BAY & SUPPLY JOINT.
- B** DISCONNECT AND ABANDON EXISTING 35HV CABLE UPSTREAM AT SAPPHIRE ROAD S/GEAR.

**CLIENT SCOPE/NOTES:**

- PROJECT SURVEYOR REQUIREMENTS -
  - LOT BOUNDARY CREATION/MODIFICATION, INCLUDING ANY ROAD RESERVE EXTENSIONS FOR SUBSTATION SITES AND LIGHT POLES AS SHOWN ON THIS DRAWING.
  - CREATION OF ANY EASEMENTS, TITLE NOTIFICATIONS & RESTRICTIVE COVENANTS ETC AS SHOWN ON THIS DRAWING.
- OBTAIN ALL RELEVANT ENVIRONMENTAL APPROVALS AND/OR CLEARING PERMITS FOR CLEARING OF FLORA IN AREA OF WP WORKS, AT AREAS SHOWN ON THIS DRAWING.
- WHERE NOTED, CIVIL DESIGN TO DEVIATE FOOTPATH AROUND LIGHT POLE.

CONTINUED ON MS016103/3E15098

CONTINUED ON MS018382/3E21097



- ARROW DENOTES DIRECTION TO PEG WITH WHICH DUCTS ARE TO BE ALIGNED
- DUCTS TO BE LAID TO WP SPECIFICATION AS OUTLINED IN UNDERGROUND DISTRIBUTION SCHEMES MANUAL - POLICY AND INSTALLATION OPTIONS
- DENOTES PREVIOUSLY REQUESTED DUCTS

**NOTE:**  
ENERGISATION OF SUBDIVISION IS SUBJECT TO THE SUCCESSFUL COMPLETION OF MS018382

**LEGEND**

**SCHEME BOY:**

- RETAINING WALL
- RETAINING WALL EXTRA FOOTING
- RESTRICTED ZONE
- EASEMENT

**HV CABLES**

- CN53 - 400mm<sup>2</sup> (3X1c)
- CN49 - 240mm<sup>2</sup> (3X1c)
- CN48 - 185mm<sup>2</sup> (3X1c)
- CN50 - 95mm<sup>2</sup> (3X1c)
- CN51 - 50mm<sup>2</sup> (3X1c)
- CN46 - 35mm<sup>2</sup> (3X1c)
- CN47 - 35mm<sup>2</sup> (1c)

**EXISTING HV CABLES**  
(SIZE AND TYPE INDICATED)

**LV-SL CABLES**

- CN45 - 240mm<sup>2</sup> (1x3c)
- CN44 - 185mm<sup>2</sup> (1x3c)
- CN43 - 120mm<sup>2</sup> (1x3c)
- CN42 - 25mm<sup>2</sup> (1x3c)
- CN41 - 16mm<sup>2</sup> SL (1c)

**EXISTING LV CABLES**  
(SIZE AND TYPE INDICATED)

**STREET LIGHTS**

LEGEND DEFINES TYPE & WATTAGE - NOT COLOUR

ROAD FLAIR LED 3000K	ROAD FLAIR LED 4000K	DECORATIVE LED 4000K
15W 1E	16W 1L	17W 1A
43W 2E	42W 2L	42W 3A
28W 3E	27W 3L	80W 4C
70W 4E	68W 4L	100W 5C
100W 5E	135W 5L	155W 6C
165W 6E	155W 6L	

**EXISTING SUPERSEDED DISCHARGE LUMINAIRES**

- 42W CFL
- 80W HV
- 125W HV
- EXISTING
- 70W HPS
- 150W HPS
- 250W HPS
- 250W HPS AERODROME
- 70W MH
- 150W MH
- 250W MH

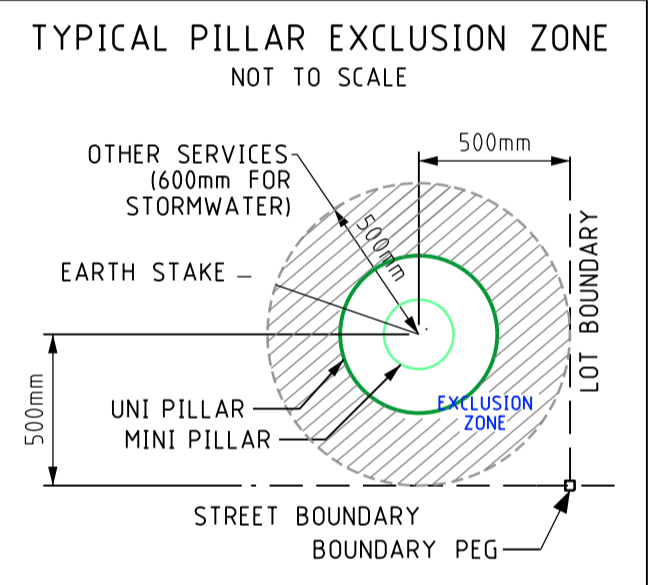
**PILLARS / PITS / ETC**

- MINI (WORKING END)
- MINI
- LINK
- STANDARD WP MARKER POST
- CUSTOM FOOTPATH CABLE MARKER PLATE
- CONDUIT / POLY PIPE
- UMS PIT
- CONCRETE HV CABLE PIT
- P4 - TYPE B/D - TRAFFICABLE
- LID RATING
- 100/200AMP CUTOUT
- SERVICED UNCLEARED DE-ENERGISED LOT
- EXISTING SUDL LOT TO BE ENERGISED NOW

**TRANSFORMER EXISTING SWITCHGEAR**

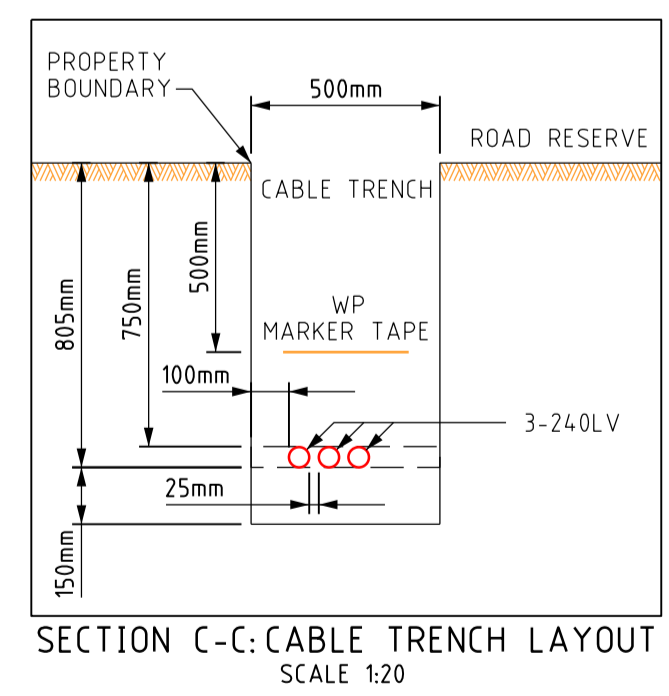
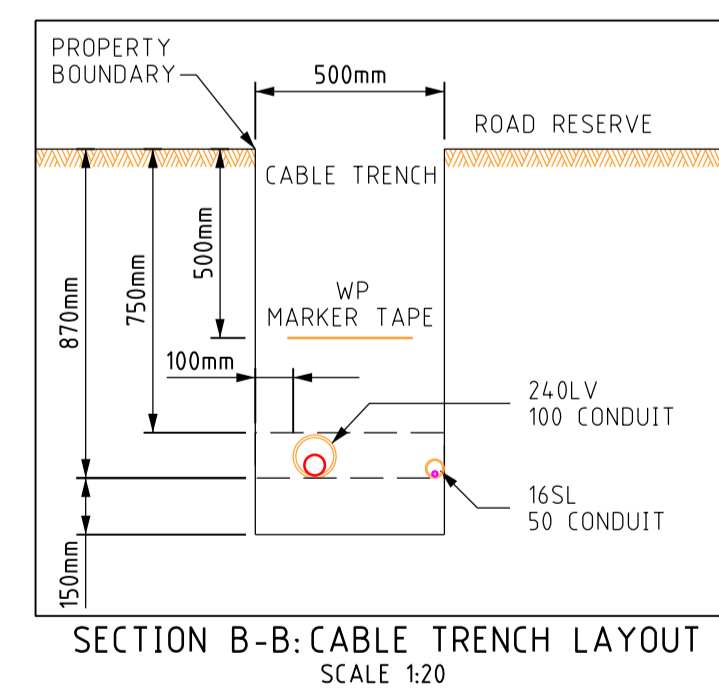
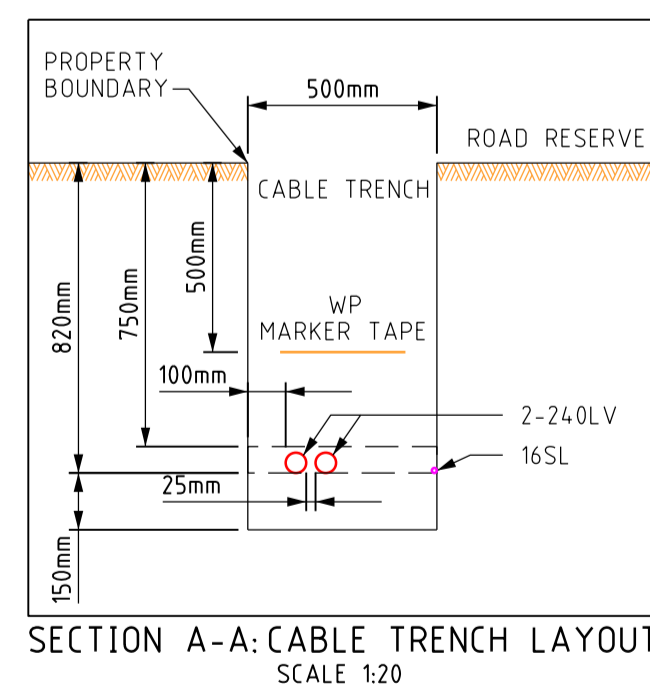
**AERIAL CONDUCTORS AND POLES**

- NEW POLE (ANY TYPE AS INDICATED)
- EXISTING POLE (ANY TYPE AS INDICATED)
- EXISTING AERIAL CONDUCTORS (SIZE AND TYPE INDICATED)



\*ASTERISK DENOTES CHANGE IN LOAD ON AN EXISTING CIRCUIT

TRANSFORMER SPECIFICATIONS AND LOCATION	FUSEWAY NO.	CIRCUIT NO.	FUSE AMPS	CABLE mm <sup>2</sup>	CIRCUIT NAME	VOLT DROP	AMPS	TOTAL AMPS
EXISTING 630kVA Tx POS 8030 22kV (1827A) ADMD: 4.7kVA	1	*x1	315	240	UNI LOT 2547 & L.E.S LOT 2545	11.78V	98A	529A
	2	*x2	315	240	UNIS LOTS 2572 (OFF) & 2547 (OFF)	14.19V	176A	
	3	*x3	315	240	UNIS LOTS 2549 (OFF) & 2584 (OFF)	13.90V	176A	
	4	4	315	240	UNI LOT 2560 & UNI LOT 2598 (OFF)	12.25V	235A	
	5	5	315	240	UNI LOT 114 (OFF)	-	-	



REV	DESCRIPTION	DATE	DRWN	CHKD
0	CIVIL BASE UPDATED DESIGN UPDATED TO SUIT FUTURE INTERCONNECTION. ISSUED TO WP FOR CONFORMANCE	07.02.2022	DA	VH
A	ISSUED TO CLIENT FOR COMMENT	24.01.2022	DA	VH

**3E CONSULTING ENGINEERS PTY LTD**  
Electrical Engineering Excellence

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22 St George's Tce, Perth WA 6000  
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**PRELIMINARY**  
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**WORKING IN THE VICINITY OF EXISTING OVERHEAD SERVICES IS APPROPRIATE ONLY. NO GUARANTEE IS GIVEN THAT ALL EXISTING SERVICES ARE SHOWN ALWAYS. REFER TO CURRENT CIVIL DRAWINGS FOR POSITIVE LOCATIONS ON SITE BEFORE COMMENCEMENT OF WORKS. REFER TO 'WORKSAFE' REGULATION 321**

Scale 1:500 @ A1 Original Paper Size  
Base File Date 02-02-2022 H. Datum PCG94  
Designed: DA Drawn: DA Checked: JH Appr: JH  
Western Power Reference No. TBA WAPC No. 160731  
Local Authority CITY OF SWAN  
Civil Consultant TABEC

**ST LEONARDS ESTATE, DAYTON - STAGE 1W**  
27 RESIDENTIAL LOTS ELECTRICAL NETWORK

Sheet 01 of 2  
3E Drawing Number 3E22009-01  
Revision 0

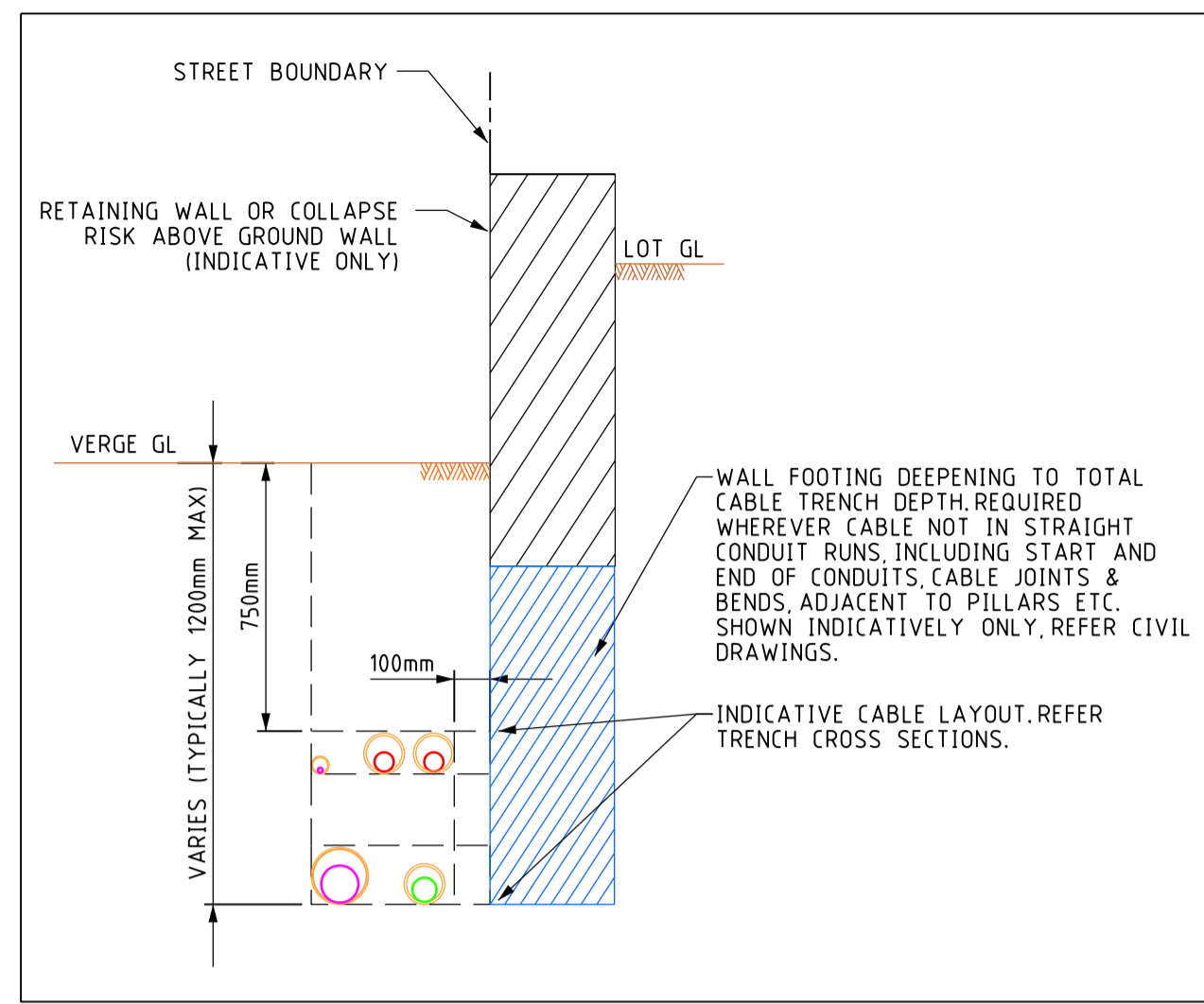
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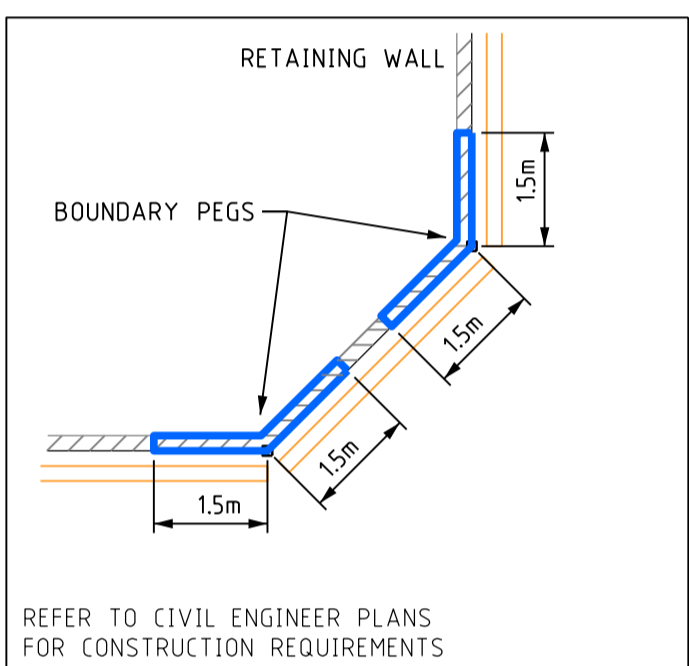
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**CLIENT SCOPE/NOTES:**

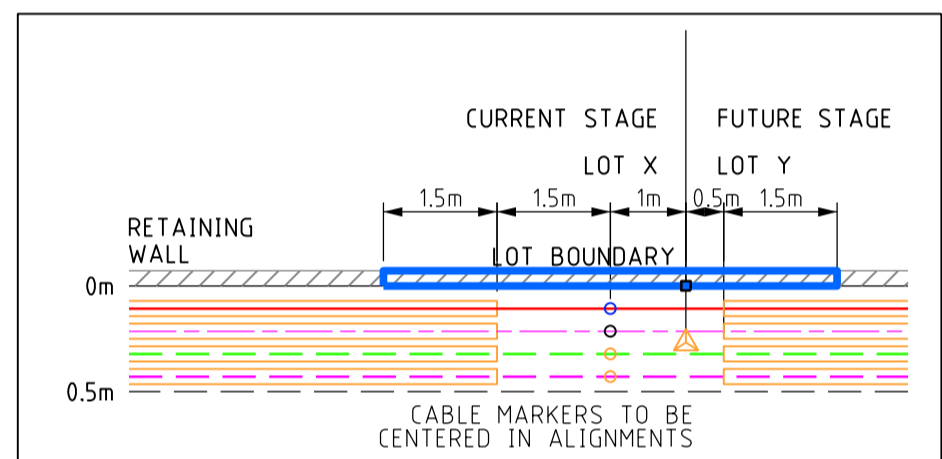
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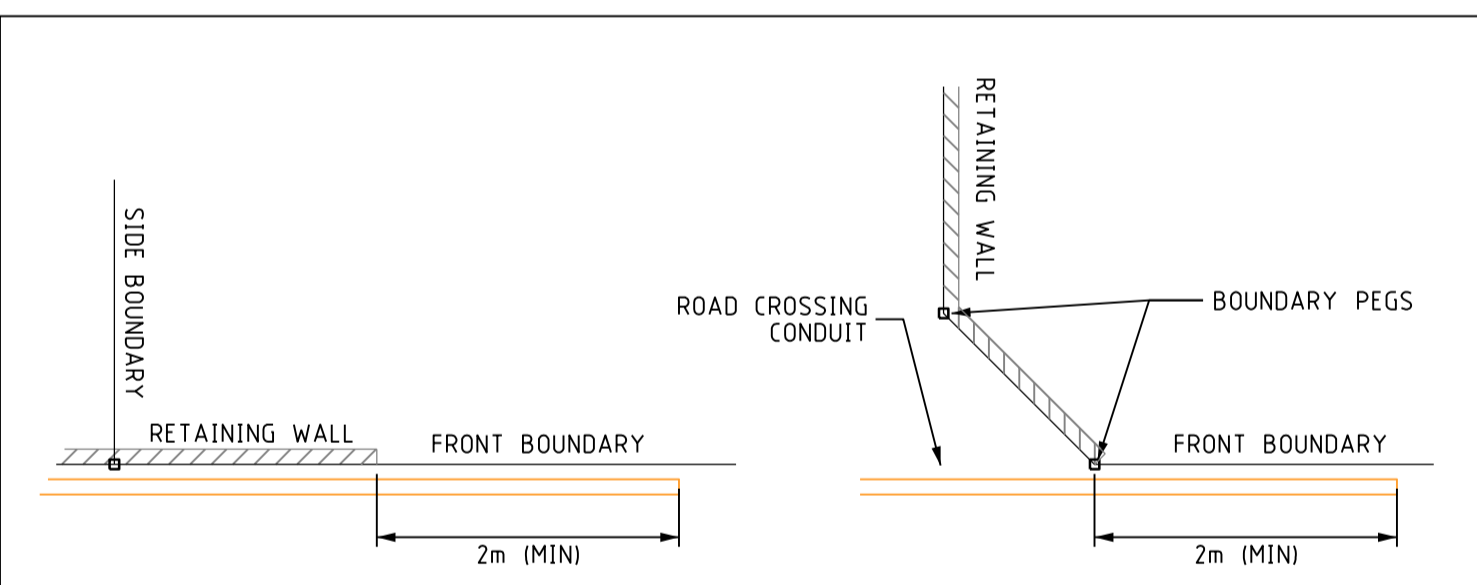
**TYPICAL WALL FOOTING DEEPENING ARRANGEMENT**  
NOT TO SCALE



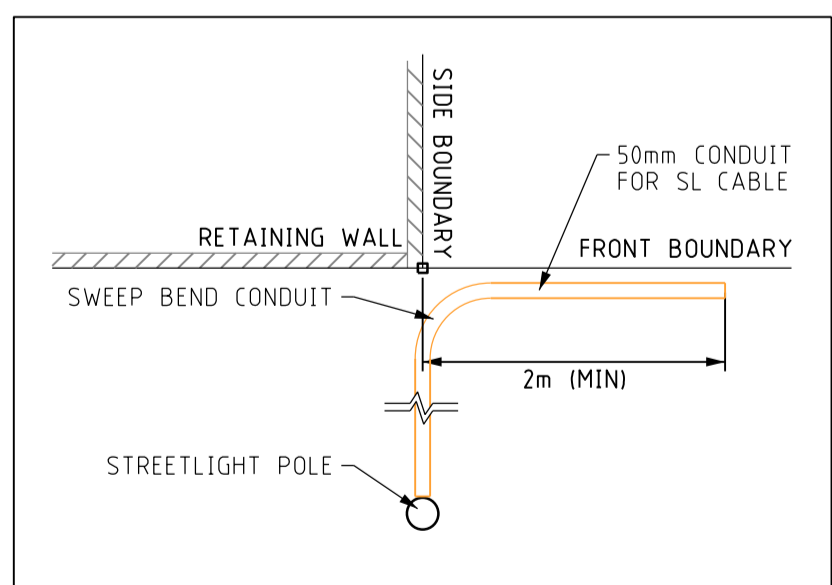
**RECOMMENDATION FOR EXTRA RETAINING WALL FOOTINGS TO ALLOW CABLE PULL**  
NOT TO SCALE



**TYPICAL DETAIL FOR CONDUIT, CABLE & LES SET-OUT AT PROJECT BOUNDARY ADJACENT TO WALL**  
NOT TO SCALE



**MINIMUM CONDUIT EXTENSION AT WALLS TO AVOID DEEPENED FOOTINGS**  
NOT TO SCALE



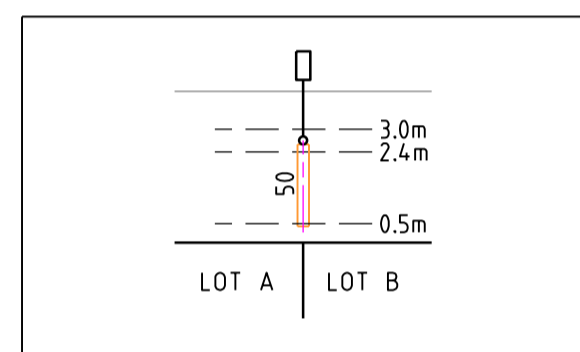
**SL POLE CONDUIT TO AVOID DEEPENED FOOTINGS**  
NOT TO SCALE

**NOTES:**

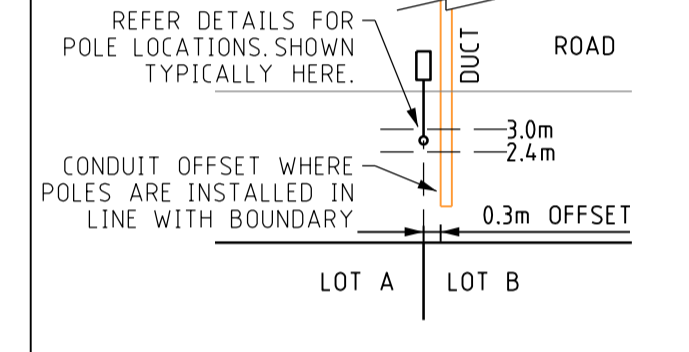
- FOR STREET LIGHT POLES WITHOUT REFERENCE POINTS TO LOCATE - REFER TO THE COORDINATE TABLE BELOW.
- SEPARATION DISTANCES LISTED ARE MINIMUM REQUIREMENTS, NOT REFERENCES FOR SET-OUT. ENSURE CLEARANCES ARE MET AFTER PEGGING ON SITE, TAKING INTO ACCOUNT POLE DIAMETER.
- POLE LOCATION COORDINATE POINTS TAKEN OFF THE CADASTRAL DRAWING PROVIDED BY CIVIL CONSULTANT. LOCATIONS TO BE CONFIRMED BY SURVEYOR ON SITE.

**STREET LIGHT POLE LOCATION SUMMARY**

POLE	EASTING	NORTHING	NOTES
LP1	65565.1595	274887.5323	1m TO TOE OF KERB
LP2	65570.4573	274865.1075	2.7m ALIGNMENT
LP3	65570.6483	274822.5881	2.7m ALIGNMENT
LP4	65570.6478	274790.1076	2.7m ALIGNMENT



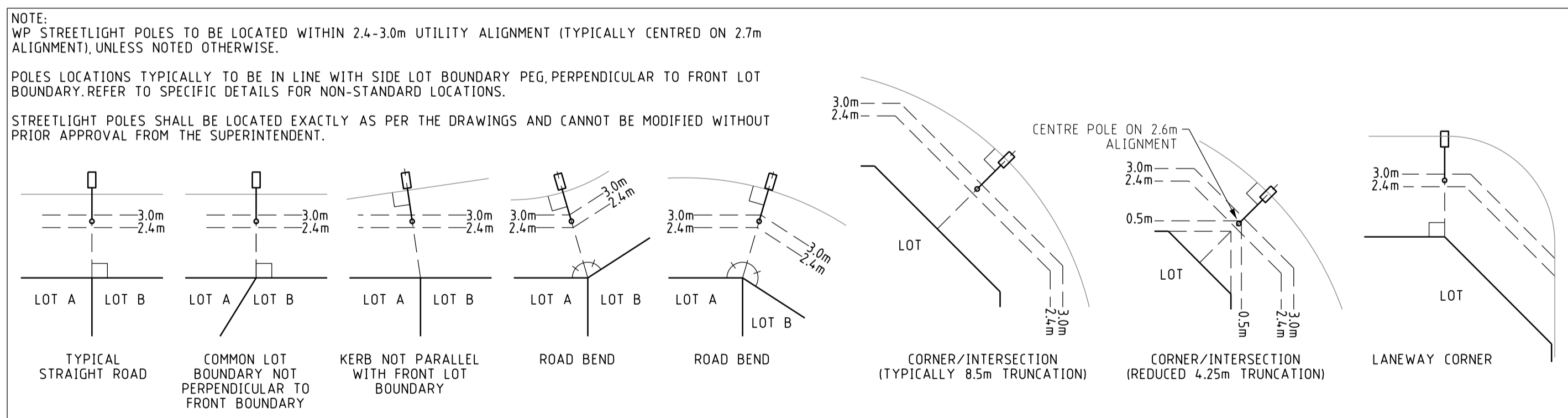
**TYPICAL CONDUIT FOR SL CABLE OUTSIDE OF 0-0.5m ALIGNMENT**  
NOT TO SCALE



**TYPICAL ROAD CROSSING NEAR LIGHT POLE ARRANGEMENT**  
NOT TO SCALE

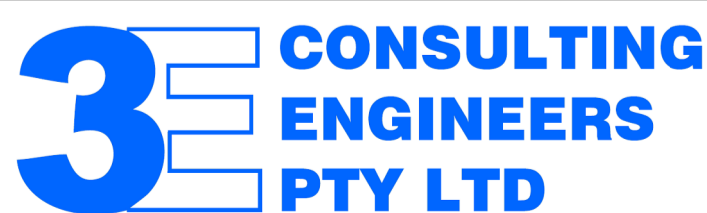
NOTE: ALL UNMETERED SUPPLIES (INCLUDING CUSTOMER AND WESTERN POWER STREETLIGHTING ASSETS) CONNECTED TO UNDERGROUND SYSTEM IN CONTRACTOR'S SCOPE. FOR ANY UMS LIGHTS WITHIN WP'S SCOPE, REFER TO WP DRAWINGS FOR UMS LOAD DETAILS.

TYPE OF EQUIPMENT	SYMBOL	NO OF UNITS	UNIT WATTAGE	TOTAL WATTAGE	DAILY HRS OPERATION	WP Asset Yes / No
6.5m STANDARD POLE + ROAD FLAIR 16W 1E	◆	8	16W	128W	DUSK/DAWN	YES
6.5m STANDARD POLE + ROAD FLAIR 43W 2E	◆	5	43W	215W	DUSK/DAWN	YES



**TYPICAL STREETLIGHT POLE LOCATIONS**  
NOT TO SCALE

REV	DESCRIPTION	DATE	DRWN	CHKD
0	CIVIL BASE UPDATED, DESIGN UPDATED TO SUIT FUTURE INTERCONNECTION. ISSUED TO WP FOR CONFORMANCE	07.02.2022	DA	VH
A	ISSUED TO CLIENT FOR COMMENT	24.01.2022	DA	VH

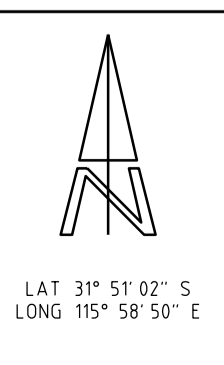
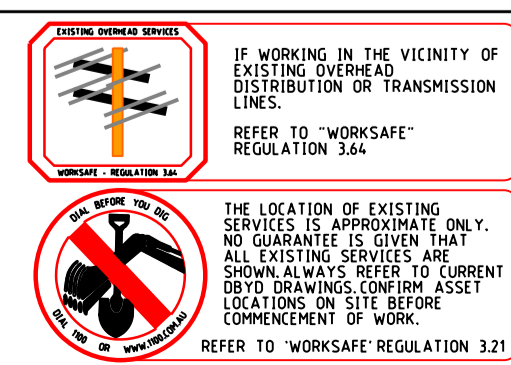


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0	5	10	20	30	40
Scale 1:500 @ A1 Original Paper Size					
Base File Date 02-02-2022 H. Datum PCG94					
Designed: DA Drawn: DA Checked: JH Appr: JH					
Western Power Reference No. TBA WAPC No. 160731					
Local Authority CITY OF SWAN					
Civil Consultant TABEC					

**ST LEONARDS ESTATE,**  
**DAYTON - STAGE 1W**  
 27 RESIDENTIAL LOTS  
 ELECTRICAL NETWORK

Sheet 01	3E Drawing Number	Revision
2	3E22009-01	0