

STREET LIGHTING			
POLE TYPE	OUTREACH	LUMINAIRE/WATTAGE	No.
DM5 6.5m MEADOW SPRINGS	-	BOURKE HILL 80W	9
DM 6.5m MEADOW SPRINGS	-	BOURKE HILL 125W	8
COLOUR: EBONY			
ROAD LIGHTING COMPLIES TO AS/NZS1158.3.1:2005 ROAD LIGHTING STD'S UNLESS OTHERWISE INDICATED			

CABLE	CONDUIT SIZE
240mm <sup>2</sup> HV	150mm
185mm <sup>2</sup> HV	150mm
95mm <sup>2</sup> HV	100mm
35mm <sup>2</sup> HV	150mm
240mm <sup>2</sup> LV	100mm
185mm <sup>2</sup> LV	100mm
120mm <sup>2</sup> LV	100mm
25mm <sup>2</sup> LV	50mm
16mm <sup>2</sup> SL	50mm
10mm <sup>2</sup> SL	50mm

STREET LIGHTS		EXISTING
50w MV	70w HPS	70/75w MH
80w MV	150w HPS	150w MH
125w MV	250w HPS	250w MH

PILLARS		EXISTING
UNIVERSAL	UMS PIT	
MINI	100AMP CUTOUT	
MINI -WORKING END	200AMP CUTOUT	
LINK		

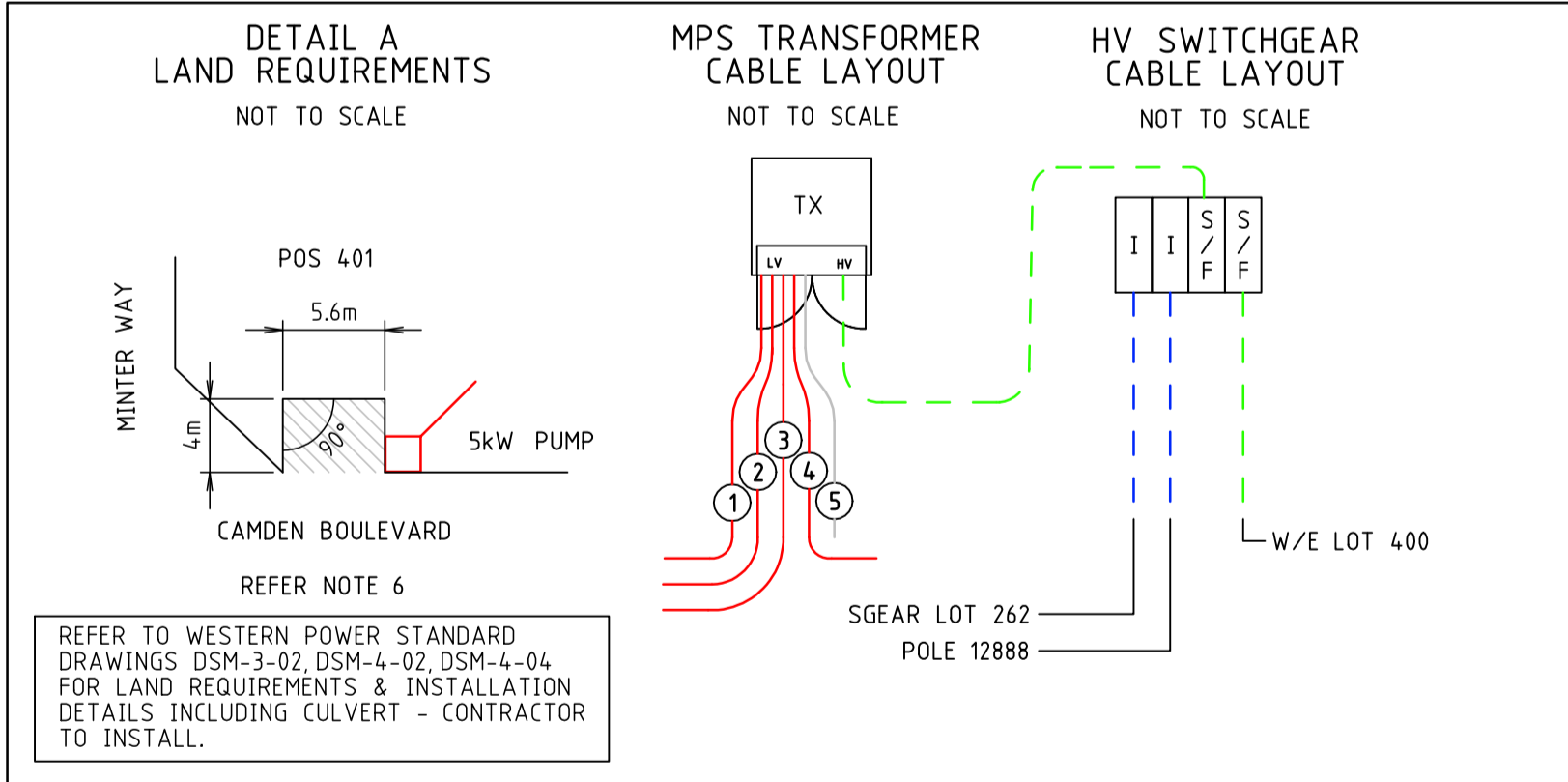
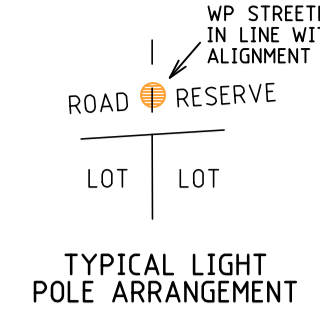
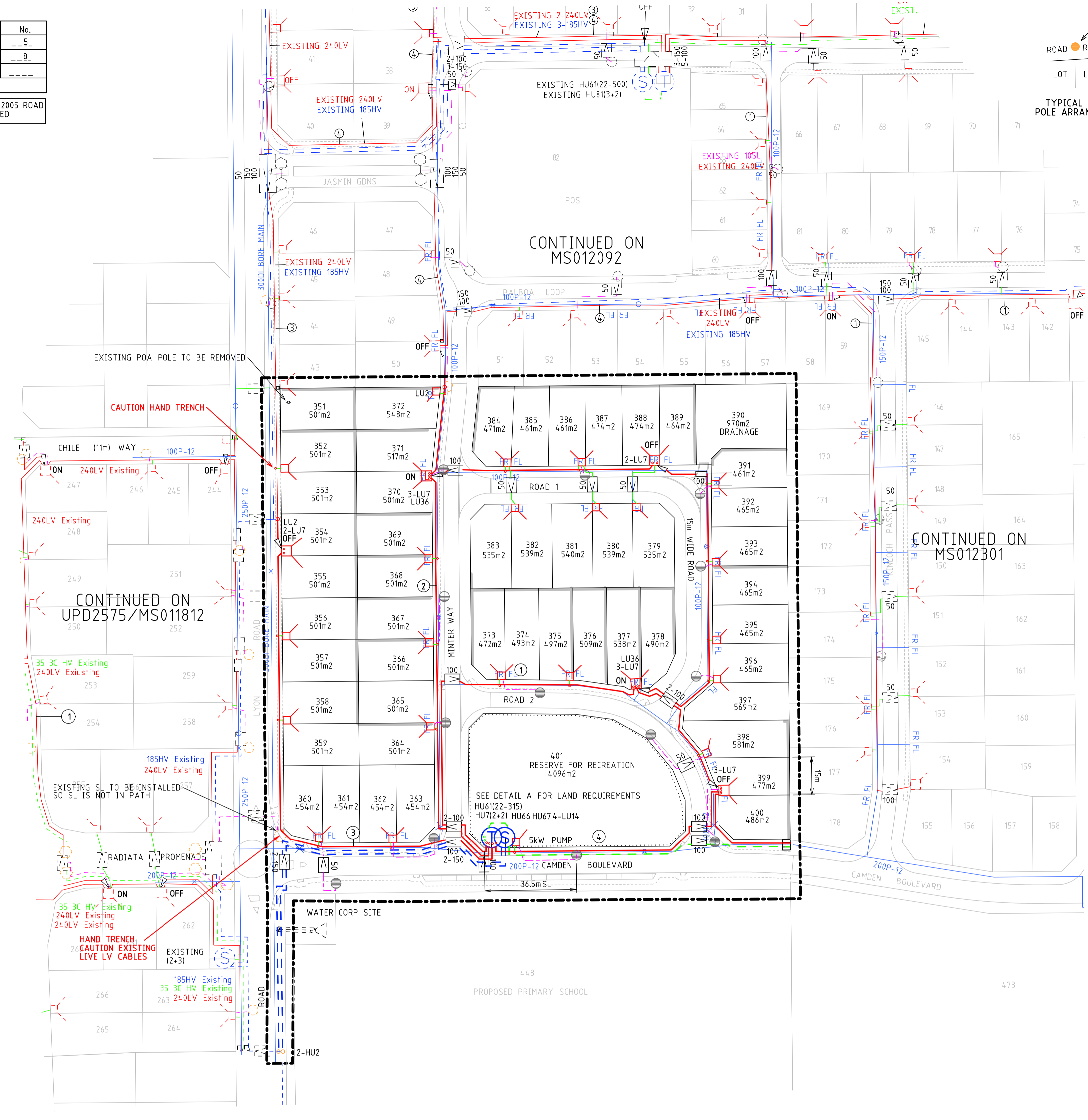
TRANSFORMERS	SWITCHGEAR
T	S

SCHEME BOUNDARY	RETAINING WALLS
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DUCTS	EXISTING DUCTS
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DUCTS TO BE LAID TO WP SPECIFICATION ES 3/16/84	

**DRAWING & CONSTRUCTION OF THIS PROJECT TO BE READ & BUILT IN CONJUNCTION WITH WESTERN POWER'S LATEST UDS MANUAL**

- CABLE PROTECTOR SLABBING IS REQUIRED WHERE THE CABLES LEAVE THE STANDARD WP ALIGNMENT  
 a) TERMINATE AT STREETLIGHT POLE  
 b) ENTER ROAD CROSSING CONDUIT  
 c) TERMINATE AT CABLE POLE
- STREET LIGHTS TO BE INSTALLED CLEAR OF FOOTPATHS AND PRAM RAMP'S EITHER ON THE 2.7m ALIGNMENT OR 1.0m BEHIND BACK OF KERB. FINAL POSITIONS TO BE DETERMINED ON SITE SUBJECT TO WP APPROVAL
- CABLES TO BE INSTALLED IN CORFLO CONDUIT ALONG RETAINING WALLS OR FENCES TO AVOID DAMAGE TO CABLES. ONE CABLE PER CONDUIT SIZED TO SUIT. SEE LEGEND ABOVE FOR CONDUIT SIZE
- IF ACID SOILS ARE PRESENT, CLEAN NEUTRAL BACKFILL IS TO BE USED AROUND THE CABLES.
- ALL WP PILLAR LOCATIONS TO COMPLY WITH W.A.E.R. STANDARDS.
- WP SITE TO BE INCORPORATED EITHER AS AN EXTENSION OF THE ROAD RESERVE OR PUBLIC OPEN SPACE. NO PIPES, DRAINS OR OTHER SERVICES ARE PERMITTED BENEATH SUBSTATION SITE. IF ANY SUBSTATION LIES WITHIN THE 100 YEAR FLOOD ZONE THE SUBSTATION MUST BE 1M ABOVE THE FLOOD ZONE LEVEL. NO METAL FENCES TO BE INSTALLED ADJACENT TO SUBSTATION SITES



TRANSFORMER NAME AND LOCATION	CIRCUIT NO.	FUSE AMPS	CABLE mm <sup>2</sup>	CIRCUIT NAME	VOLT DROP	AMPS	TOTAL AMPS @ 4 kVA/LOT
TX_POS_82 500kVA/22kV (656A)	1	315	240	EXISTING_UNI_LOT_154_TEMP_ON	12.94	282	608A
	2	315	240	EXIST_WZE_LOT_86	3.10	100	
	3	315	240	TO_UNI_354_LOPEL_YON_RD	6.98	133	
	4	315	240	EXIST_UNI_LOT_50-41(OFF)	4.72	93	
	5	315	240	SPARE			

TRANSFORMER NAME AND LOCATION	CIRCUIT NO.	FUSE AMPS	CABLE mm <sup>2</sup>	CIRCUIT NAME	VOLT DROP	AMPS	TOTAL AMPS @ 4 kVA/LOT
TX_POS_401 315kVA/22kV (413A)	1	315	240	TO_UNI_388	4.50	100	359A
	2	315	240	TO_UNI_50(OFF)MINTER_WY	6.09	133	
	3	315	240	TO_UNI_354_LOPEL_YON_RD	2.26	83	
	4	315	240	TO_UNI_399_WZE	1.06	42	
	5	315	240	SPARE			

**DRAFT**  
NOT FOR CONSTRUCTION PURPOSES

**WARNING**  
BEWARE OF UNDERGROUND SERVICES

The location of underground cables are approximate only and their exact position should be checked on site. No guarantee is given that all existing cables and services are shown. Locate all underground cables and services before commencement of work. Refer to Worksafe Regulation 3.21.

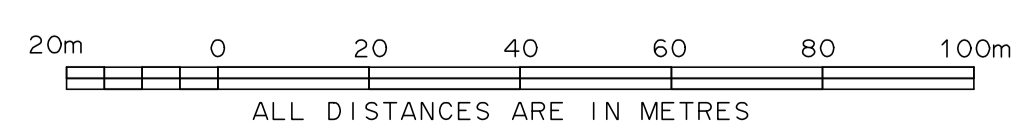
**DIAL1100**  
BEFORE YOU DIG

**WARNING**  
IF WORKING IN THE VICINITY OF EXISTING OVERHEAD DISTRIBUTION OR TRANSMISSION LINES CONTRACTOR TO COMPLY WITH "WORKSAFE" CLEARANCES DURING CONSTRUCTION

REV	DESCRIPTION	DATE	DRAWN	CHKD	SENT WP	APPR WP
-1	DRAFT ISSUED TO CLIENT FOR COMMENT	20-4-07	SW	RP		

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DFIS REFERENCE 32°10'17"S, 115°51'43"E



**Underground Power Development**  
A.B.N. 53 094 593 067

**LOT 446 LYON ROAD**  
**AUBIN GROVE**  
49 RESIDENTIAL LOTS + 1 POS + 1 DRAINAGE  
UNDERGROUND POWER DISTRIBUTION

DESIGNER: B. REABY  
DRAWN: S.W.  
SCALE: 1:1000

WESTERN POWER Reference No: MS012795  
WAPC No: 126771

Drawing No: UPD3393  
Revision: -1