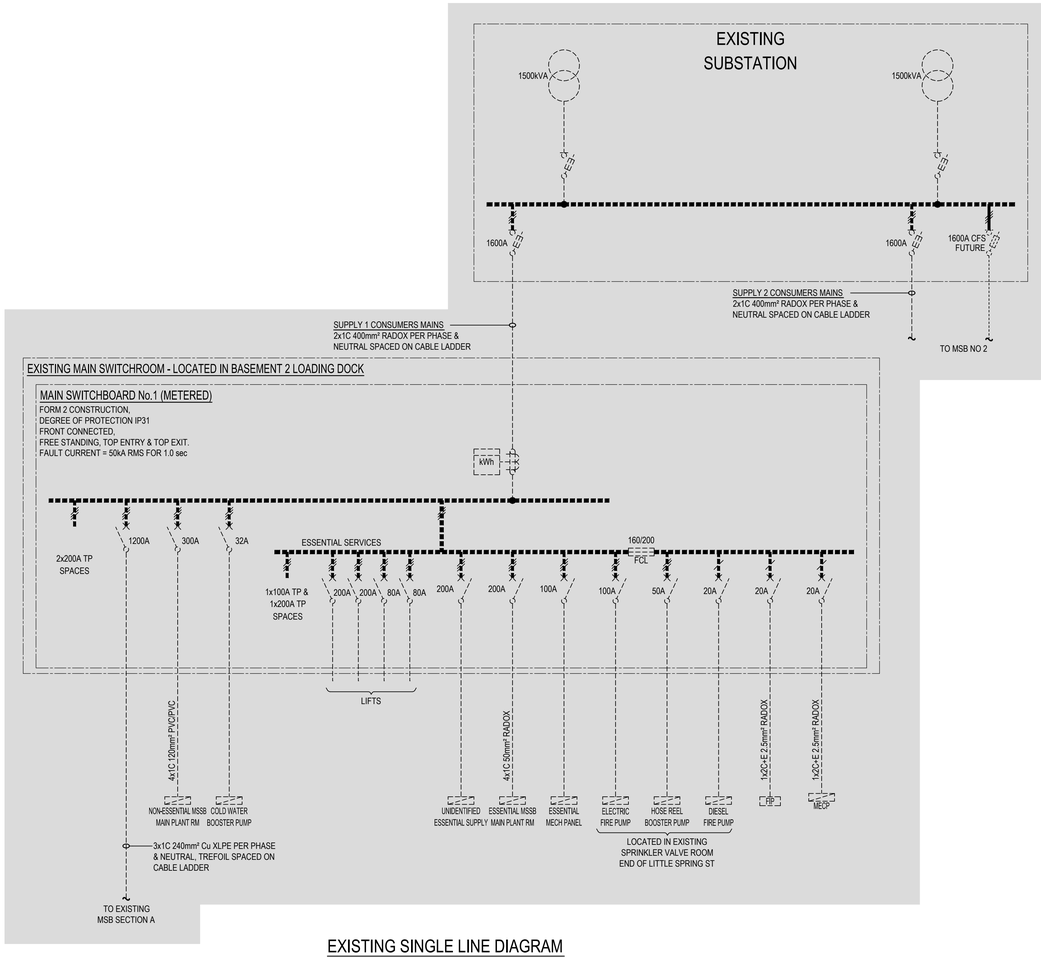
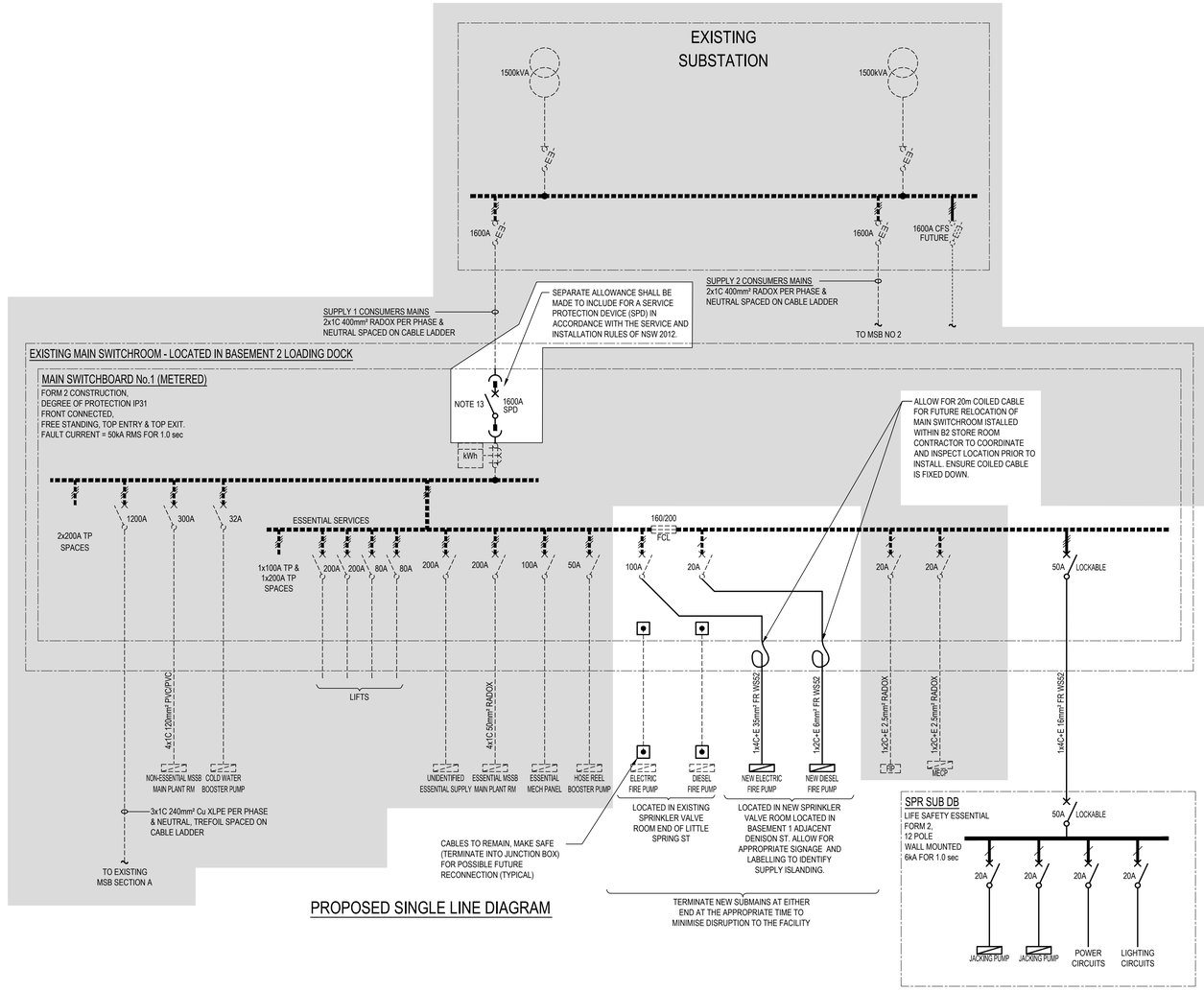


EXISTING SINGLE LINE DIAGRAM

SHOWN FOR INFORMATION PURPOSES ONLY



PROPOSED SINGLE LINE DIAGRAM

NOTES

1. CIRCUIT BREAKER RATINGS NOTED ARE INSTALLED FULL LOAD RATINGS. SIZE ACTUAL CIRCUIT BREAKERS ALLOWING FOR ALL DE-RATING FACTORS. SELECTED EQUIPMENT LOADS ETC.
2. CIRCUIT BREAKERS SHALL PROVIDE FULL DISCRIMINATION.
3. CIRCUIT BREAKERS SHALL PROVIDE FAULT LEVEL CASCADE PROTECTION TO ENABLE THE USE OF 6KA MINIATURE CIRCUIT BREAKERS. WHERE PROTECTION CANNOT BE GUARANTEED BY THE MANUFACTURER THEN FCL FUSES SHALL BE PROVIDED AT THE NECESSARY SWITCHGEAR.
4. SUBMAINS CABLES SHALL BE INSTALLED IN ACCORDANCE WITH AS3008.1.1 FIGURE 1 - MINIMUM CABLES SPACINGS IN AIR TO AVOID DERATING.
5. SINGLE CORE CABLES SHALL BE ARRANGED IN TREFOIL ARRANGEMENT WITH CONDUCTORS ROTATED IN ACCORDANCE WITH AS3008.1.1 APPENDIX B.
6. SUBMAINS CABLES SHALL BE INSTALLED ON HEAVY DUTY LADDER TRAY.
7. LIFE SAFETY SUBMAINS CABLES SHALL BE SECURED WITH STAINLESS STEEL STRAPS AND SHALL BE CLASSIFIED W552W AS-3013. CABLE CONTAINMENT SHALL BE MECHANICALLY PROTECTED TO AS3013 - ALL HARDWARE, SUPPORTS AND STRUCTURAL ELEMENTS SHALL BE IMPACT RESISTANT - PROVIDE MECHANICAL BARRIER FOR CABLES BELOW 2000AFFL
8. SUBMAINS CABLE IDENTIFICATION TAGS SHALL BE PROVIDED AT SOURCE, TERMINATION AND ON EITHER SIDE OF ANY BARRIER.
9. LADDER TRAY SHALL BE INSTALLED HORIZONTALLY AND SUPPORTED OFF TRAPEZE BRACKETS
10. ALL ESSENTIAL DISTRIBUTION BOARD MAIN SWITCH ISOLATORS TO BE LOCKABLE
11. ALL SUBMAIN CABLES SHALL BE STRANDED COPPER CONDUCTORS
12. ALL CIRCUITS TO BE 3 PHASE UNLESS NOTED OTHERWISE
13. NOMINATION OF SPD AS PER AUSGRID ADVICE. SUBMIT FINAL SHOP DRAWINGS TO AUSGRID FOR APPROVAL. FINAL SIZE OF SPD SUBJECT TO NEGOTIATIONS WITH AUSGRID AND STAGING OF EXISTING LOADS BEING DEMOLISHED.
14. ALL ISOLATORS AND CIRCUIT BREAKERS SUPPLYING ESSENTIAL SERVICES SHALL BE SUITABLY LABELLED

LEGEND

- MAIN ELECTRICAL SWITCHBOARD
- ELECTRICAL DISTRIBUTION BOARD
- EXISTING ELECTRICAL DISTRIBUTION BOARD
- CONTROL PANEL BY OTHER TRADES. PROVIDE ISOLATING SWITCH AS REQUIRED TO SUIT LOAD
- kWh — AUSGRID KILOWATT HOUR METER
- 100a 200A — MOULDED CASE CIRCUIT BREAKER. 100A DENOTES 100AMPS RATING 200A DENOTES MINIMUM FRAME SIZE
- POWER TRANSFORMER/SUBSTATION
- SINGLE PHASE CIRCUIT
- THREE PHASE CIRCUIT
- PROVIDE SUBMAINS/CABLE COILED (10M MIN.) IN LOCATION AS INDICATED. FINAL TERMINATION BY OTHERS
- METERING CURRENT TRANSFORMER, WITH REMOVABLE LINKS
- NEW CABLING/EQUIPMENT
- EXISTING EQUIPMENT
- FUTURE EQUIPMENT

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REV	DATE	REVISION DETAILS	APP
2	02.10.14	REVISED TENDER ISSUE	NK
1	24.01.14	CONSTRUCTION ISSUE	NK
B	10.12.13	REVISED TENDER ISSUE	NK
A	03.12.13	TENDER ISSUED FOR REVIEW	NK

DRAWN	DESIGNED
M.BORDER	D.CHECCHIN
CHECKED	
M.MAGRAITH	
APPROVED	
NENO KEVIC	DATE 10.12.13
N.KEVIC	

PROJECT
77-81 BERRY STREET, NORTH SYDNEY
RELOCATION OF SHARED FACILITIES

TITLE
ELECTRICAL SERVICES
MAIN SINGLE LINE DIAGRAM

TENDER
NOT FOR CONSTRUCTION

PROJECT No.	
234976	
SCALE	SIZE
NTS	B1
DRAWING No.	REV
DW-EW-E-00002	2