INPUT	PROCESS	DELIVERABLES
BACKGROUND INFORMATION (DS22 SECTION 2) PRELIMINARY SITE PLAN SITE PHOTOS PRELIMINARY SINGLE LINE DIAGRAM	ENGAGE SUPPLY AUTHORITY WESTERN POWER – FEASIBILITY STUDY REQUEST HORIZON POWER – CONNECTION APPLICATION FORM	**SUPPLY AUTHORITY REPORT**
LOCALITY PLAN PRELIMINARY SITE PLAN	CONDUCT SOIL RESISTIVITY TESTING → PERFORM EARTH RESISTANCE CALCULATIONS	**EARTHING SPECIFICATION**
SUPPLY AUTHORITY REPORT **PROTECTION GRADING CURVES** **DESIGN STANDARDS** DS29 – ARC FLASH HAZARD ASSESSMENT OF SWITCHGEAR ASSEMBLIES	PERFORM ARC FLASH HAZARD ASSESSMENT	**ARC FLASH HAZARD DOCUMENTATION**
CIVIL SITE LAYOUT OR CADASTRAL DATA **SUPPLY AUTHORITY REPORT** **EARTHING SPECIFICATION** **POWER DIAGRAM** **DESIGN STANDARDS** DS22 – ANCILLARY PLANT AND SMALL PUMP STATIONS DS26–44 – TYPE SPECIFICATION FOR MINOR ELECTRICAL INSTALLATIONS DS24 – ELECTRICAL DRAFTING **REFERENCE DRAWINGS** MN01–21–1 – SWITCHBOARD REFERENCE	SHOW ELECTRICAL DETAIL ON SITE LAYOUT DRAWING, INCLUDING BUILDING ARRANGEMENT, SUPPLY AUTHORITY INFRASTRUCTURE AND POINT OF ATTACHMENT, ELECTRICAL SWITCHBOARD/S, ELECTRICAL PLANT AND EQUIPMENT, EARTH ELECTRODES, CONDUIT/CABLE ROUTES AND ANCILLARIES	**ELECTRICAL SITE LAYOUT** **PROJECT DRAWING** ****–40–1 **EXAMPLES** MN01–31–1 MN01–32–1
BACKGROUND INFORMATION (DS22 SECTION 2) **SUPPLY AUTHORITY REPORT** **DESIGN STANDARDS** DS24 – ELECTRICAL DRAFTING **TEMPLATE DRAWINGS** MN01–1–1, MN01–1–2, MN01–1–3 – POWER DIAGRAMS **TEMPLATE OPTIONS** MN01–11–1 – INCOMING MAINS MN01–12–1 – WASTEWATER STARTERS MN01–13–1 – WATER STARTERS MN01–14–1 – BORE STARTERS	SELECT AND POPULATE APPROPRIATE TEMPLATE DRAWING, DEPENDING ON SUPPLY AUTHORITY, ELECTRICAL AND SITE LAYOUT REQUIREMENTS	**POWER DIAGRAM** **PROJECT DRAWING** ****–40–2 **EXAMPLES** MN01–31–2 MN01–32–2
SUPPLY AUTHORITY REPORT **EARTHING SPECIFICATION** **ELECTRICAL SITE LAYOUT** **DESIGN STANDARDS** DS23 – PIPELINE AC INTERFERENCE AND SUBSTATION EARTHING DS24 – ELECTRICAL DRAFTING **TEMPLATE DRAWINGS** MN01–2–1, MN01–2–2, MN01–2–3 – EARTHING DIAGRAMS	SELECT AND POPULATE APPROPRIATE TEMPLATE DRAWING, DEPENDING ON SUPPLY AUTHORITY, ELECTRICAL AND SITE LAYOUT REQUIREMENTS DETERMINE APPROPRIATE EARTHING AND BONDING ARRANGEMENTS AND ANY PIPELINE VOLTAGE MITIGATION REQUIREMENTS	**EARTHING DIAGRAM** **PROJECT DRAWING** ****–40–3 **EXAMPLES** MN01–31–3 MN01–32–3
MANUFACTURERS' DATA **SUPPLY AUTHORITY REPORT** **ARC FLASH HAZARD DOCUMENTATION** **DESIGN STANDARDS** DS24 – ELECTRICAL DRAFTING **TEMPLATE DRAWINGS** MN01–3–1 – PROTECTION GRADING TEMPLATE **PROTECTION EQUIPMENT REFERENCES** MN01–1–2, MN01–1–3 – POWER DIAGRAMS MN01–11–1 – INCOMING MAINS MN01–12–1 – WASTEWATER STARTERS MN01–13–1 – WATER STARTERS MN01–14–1 – BORE STARTERS	DETERMINE REQUIRED PROTECTION EQUIPMENT FROM PROTECTION EQUIPMENT REFERENCES CREATE PROTECTION EQUIPMENT SCHEDULE WITH SELECTED EQUIPMENT AND PARAMETERS GRAPH CURVES INSERT RESULTS OF ARC FLASH HAZARD ASSESSMENT	**PROTECTION GRADING CURVES** **PROJECT DRAWING** ****–40–4 **EXAMPLES** MN01–31–4 MN01–32–4

GENERAL NOTES

1. INSTRUCTIONS FOR USE AND ITALIC TEXT ON THE FOLLOWING DRAWINGS ARE INSTRUCTIONS AND REFERENCES TO DESIGNERS AND SHALL NOT BE COPIED ONTO PROJECT DRAWINGS
2. THE MN01 SMALL PUMP STATION DRAWINGS ARE TO BE USED IN CONJUNCTION WITH DESIGN STANDARD DS22
3. STANDARD SWITCHBOARD DESIGNS SHALL NOT BE MODIFIED. CIRCUITS SHOWN ARE DEFINED UNDER THE TECHNOLOGY LICENCE AGREEMENT. IF PROJECT SPECIFIC MODIFICATION IS REQUIRED THE DESIGN ENGINEER SHALL REQUEST APPROVAL FROM THE SENIOR PRINCIPAL ENGINEER – ELECTRICAL ENGINEERING

MN01 DRAWING STRUCTURE

DRAWING TYPES	BUNDLES
PRIMARY DESIGN DRAWING TEMPLATES	MN01–1 TO MN01–10
PRIMARY DESIGN DRAWING TEMPLATE OPTIONS	MN01–11 TO MN01–20
SWITCHBOARD REFERENCE DRAWINGS	MN01–21 TO MN01–30
PRIMARY DESIGN DRAWING EXAMPLES	MN01–31 TO MN01–40

ISSUE	DATE	GRID	REVISION	DRN	REC	APPD

DESIGN SURVEY NONE | VERTICAL DATUM NONE | COORDINATE SYS NONE | ASCON SURVEY NONE | DES REF | DES CALC | DES CHD | DRN | Q.C. CHD

NORTH POINT

SUBMITTED 24/7/17 SENIOR ENGINEER – ELECTRICAL

RECOMMENDED 24/7/17 PRINCIPAL ENGINEER – ELECTRICAL

APPROVED 24/7/2017 SNR PRINCIPAL ENGINEER – ELECT

ENGINEERING

WATER CORPORATION

ELECTRICAL STANDARD SWITCHBOARD DESIGNS
SMALL PUMP STATIONS
PRIMARY DESIGN PROCESS FLOW CHART

FILE | PROJECT | PLAN MN01–0–1 | CAD | ISSUE A | ORIGINAL SHEET SIZE A1

MF 31 JUL 2017

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