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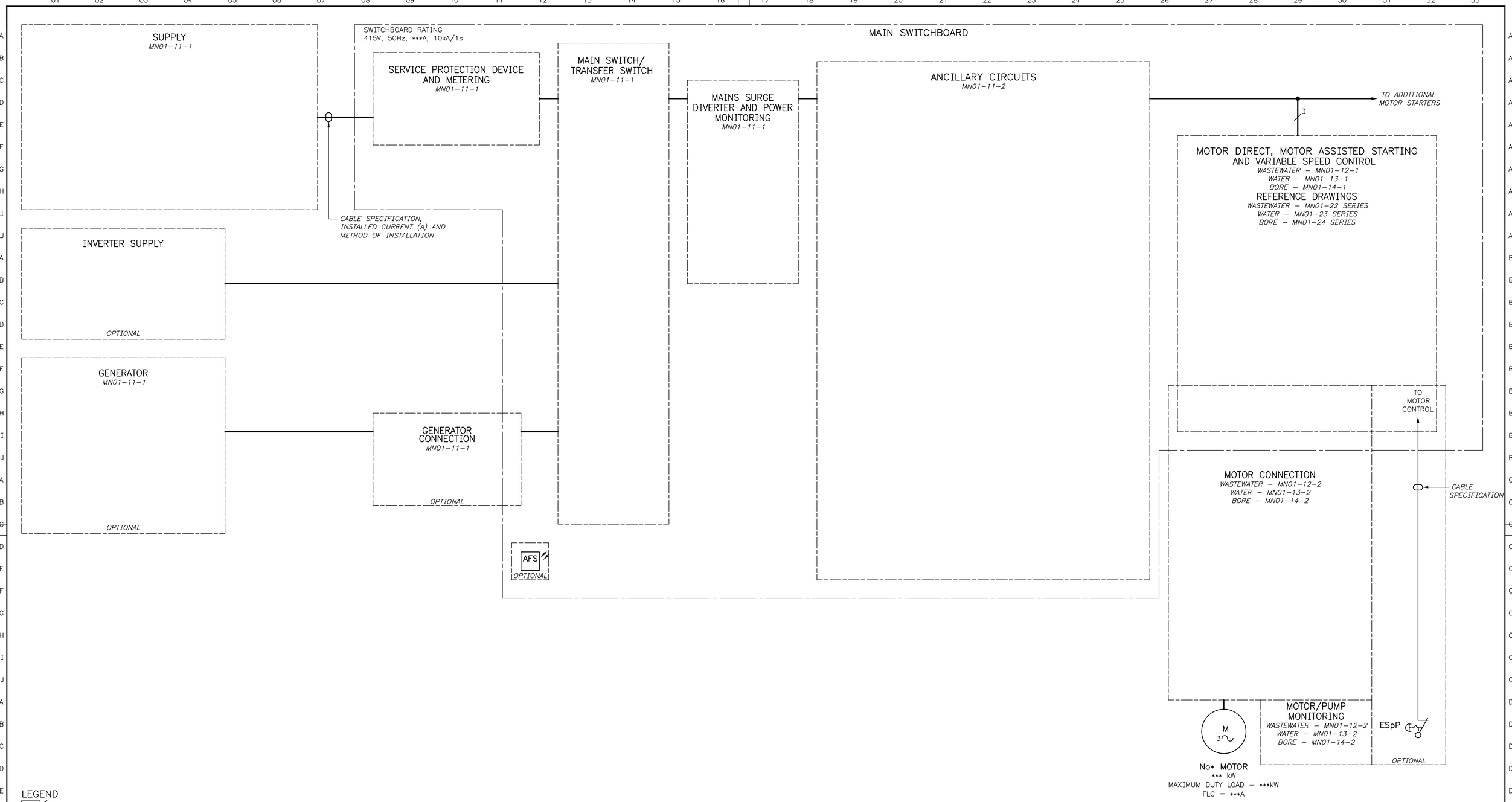


## LEGEND

AFS ARC FLASH SENSORS LOCATED WITHIN

## CODE SCHEDULE

| | |
|---|---|
| AFS | ARC FLASH SENSOR |
| ESpP | EMERGENCY STOP PUSHBUTTON |

## GENERAL NOTES

1. CONSTRUCT SWITCHBOARD IN ACCORDANCE WITH THE WATER CORPORATION STANDARD SPECIFICATION DS26.9 FOR GENERAL SWITCHBOARD REQUIREMENTS
   DS26.36 FOR SWITCHBOARDS RATED ⩽ 100A
   DS26.10 FOR SWITCHBOARDS RATED > 100A ⩽ 200A
   DS26.11 FOR SWITCHBOARDS RATED >200A TO ⩽ 440A
2. NEUTRAL AND EARTH CONNECTIONS NOT SHOWN

## *DESIGN NOTES*

1. *REFER TO BUNDLES 31 TO 40 FOR EXAMPLES OF PROJECT ELECTRICAL PRIMARY DESIGN DRAWINGS*
2. *ITALIC TEXT, ASTERISKS AND SELECTION BOXES INDICATE A PROJECT SPECIFIC VARIABLE TO BE DETAILED BY THE ELECTRICAL DESIGN ENGINEER*
3. *ADDITIONAL CIRCUIT REQUIREMENTS TO BE DETAILED BY ELECTRICAL DESIGN ENGINEER AND SHALL INCLUDE GENERATOR BATTERY CHARGING CIRCUIT WHERE APPROPRIATE*
4. *ARC FLASH PROTECTION SHALL BE SUBJECT TO ASSESSMENT IN ACCORDANCE WITH DS29 FOR ALL SWITCHBOARDS, MOTOR DISCONNECT AND GENERATOR CONNECT CUBICLES*
5. *ARC FLASH MONITORING IS BASED ON ABB TVOC–2 ARC FLASH MONITOR. NUMBER AND LOCATION OF MONITORS DEPENDENT ON SITE CONFIGURATION AND SUBJECT TO SENSOR CABLE LENGTH LIMIT OF 60m*
6. *CONTROL REQUIREMENTS DEFINED BY SCADA DESIGN ENGINEER*

| ISSUE | DATE | GRID | REVISION | DRN | REC | APPD |
|---|---|---|---|---|---|---|
| D | 11/2021 | | VARIABLE SPEED CONTROL ADDED. INCOMING MAINS CABLE NOTE REVISED | PH | ~~TX~~ | ~~EG~~ EG |
| C | 02/2019 | | NOTE 5 REVISED; MAINS SURGE DIVERTER, POWER MONITORING AND ANCILLARY CIRCUITS MOVED TO 11–1 AND 11–2; NOTE 4 DELETED | PH | EG | NJ |
| B | 05/2018 | | EMERGENCY STOP ADDED | PH | EF | KOG |

566
810

| | | | |
|---|---|---|---|
| DESIGN SURVEY NONE | VERTICAL DATUM NONE | DES CALC E FONG | NORTH POINT |
| | COORDINATE SYS NONE | DES CHD K O'GRADY | |
| ASCON SURVEY NONE | DES REF | DRN P HARVEY | |
| | | Q.C. CHD S MEMORY | |

**ENGINEERING**

SUBMITTED 24/07/2017
E FONG (SIGNED)
SENIOR ENGINEER – ELECTRICAL

RECOMMENDED 24/07/2017
K O'GRADY (SIGNED)
PRINCIPAL ENGINEER – ELECTRICAL

APPROVED 24/07/2017
N JOHNSON (SIGNED)
SNR PRINCIPAL ENGINEER – ELECT

WATER CORPORATION

ELECTRICAL STANDARD SWITCHBOARD DESIGNS
SMALL PUMP STATIONS
PRIMARY DESIGN – POWER DIAGRAM TEMPLATE
SINGLE SWITCHBOARD SITE

FILE
PROJECT
PLAN MN01–1–1
CAD
ISSUE D
ORIGINAL SHEET SIZE A1
MF

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STANDARDS\APPROVED\MN01\MN01–001–001–01D 14:38 25/03/2022 HARVEYPO/NB46193