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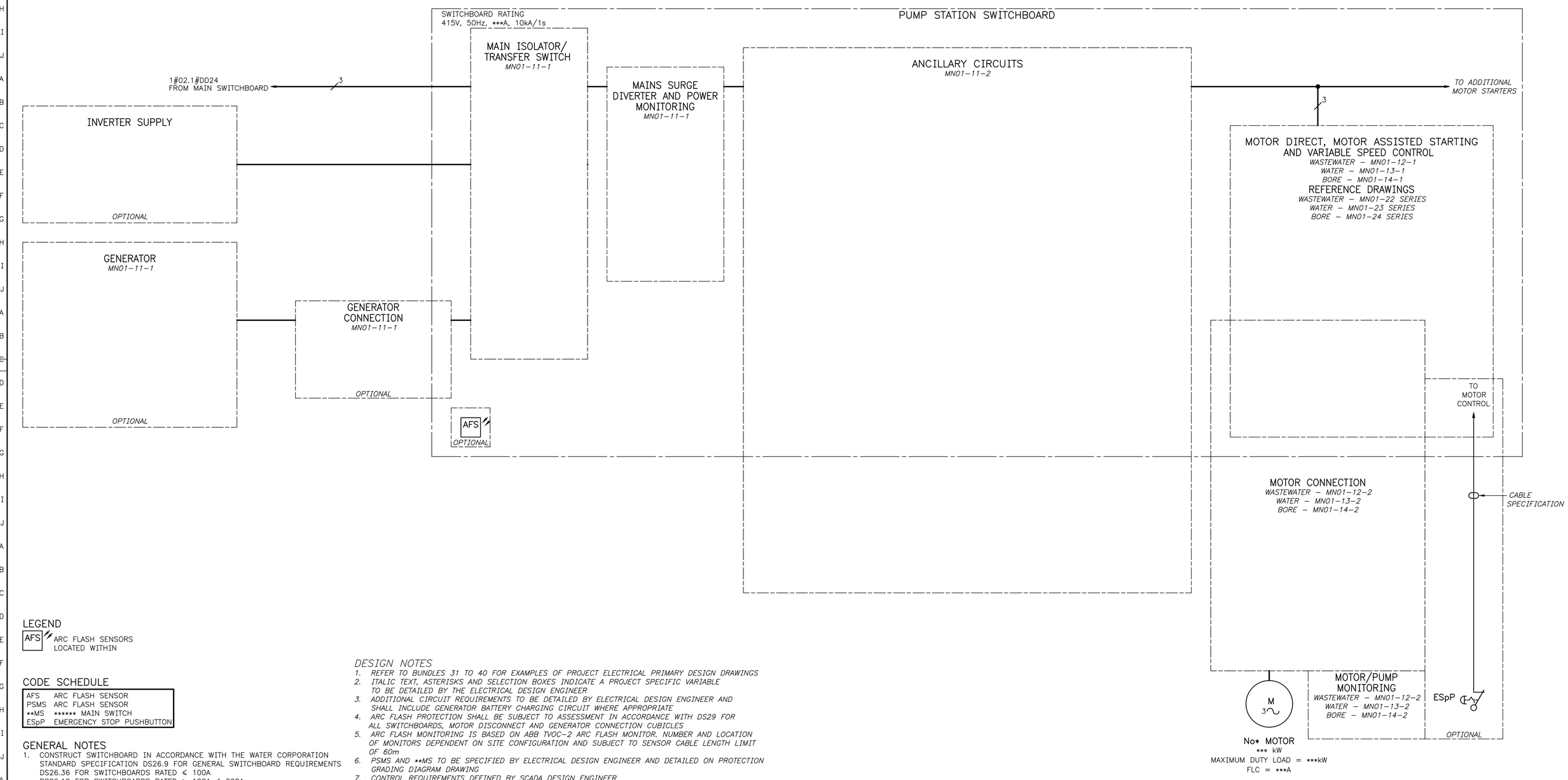

LEGEND

AFS ARC FLASH SENSORS LOCATED WITHIN

CODE SCHEDULE

AFS	ARC FLASH SENSOR
PSMS	ARC FLASH SENSOR
**MS	****** MAIN SWITCH
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 CONNECTION 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. *PSMS AND **MS TO BE SPECIFIED BY ELECTRICAL DESIGN ENGINEER AND DETAILED ON PROTECTION GRADING DIAGRAM DRAWING*
7. *CONTROL REQUIREMENTS DEFINED BY SCADA DESIGN ENGINEER*

ISSUE	DATE	GRID	REVISION	DRN	REC	APPD
E	11/2021		VARIABLE SPEED CONTROL ADDED. NOTE 6 REVISED	PH	~~TX~~	~~EG~~
D	12/2019		NOTE 8 DELETED	SAM	TL	EG
C	11/2019		DESIGN NOTE 8 ADDED	PH	EG	NJ
B	02/2019		NOTE 5 REVISED; MAINS SURGE DIVERTER, VOLTAGE MONITORING AND ANCILLARY CIRCUITS MOVED TO 11–1 AND 11–2; NOTE 4 DELETED	PH	EG	NJ

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 17/05/2018
E FONG (SIGNED)
SENIOR ENGINEER – ELECTRICAL

RECOMMENDED 17/05/2018
K O'GRADY (SIGNED)
PRINCIPAL ENGINEER – ELECTRICAL

APPROVED 17/05/2018
N JOHNSON (SIGNED)
SNR PRINCIPAL ENGINEER – ELEC

WATER CORPORATION

ELECTRICAL STANDARD SWITCHBOARD DESIGNS
SMALL PUMP STATIONS
PRIMARY DESIGN – POWER DIAGRAM TEMPLATE
MULTIPLE SWITCHBOARD SITE, GENERATOR AT PS SWBD – PART 2

FILE
PROJECT
PLAN MN01–1–2.2
CAD
ISSUE E
ORIGINAL SHEET SIZE A1
MF

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STANDARDS\APPROVED\MN01\MN01–001–002–02E 14:38 25/03/2022 HARVEYPO/NB46193