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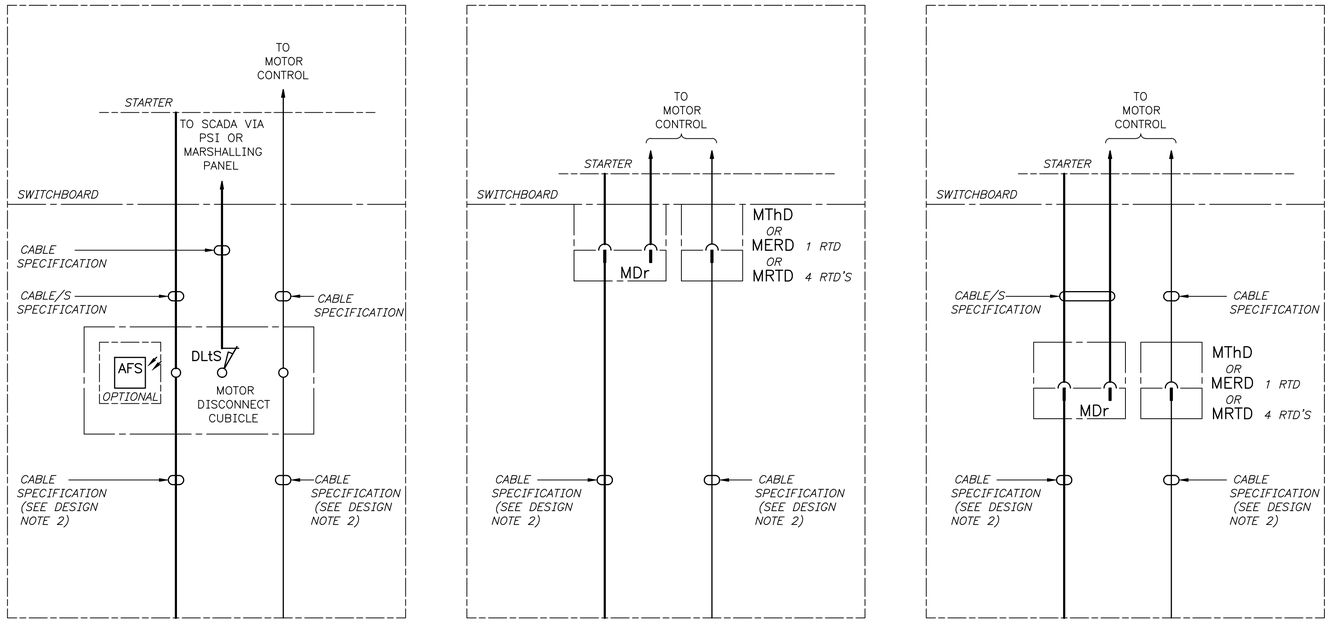

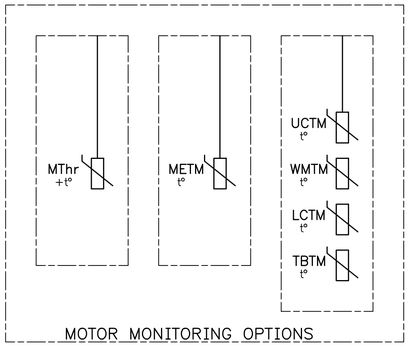

LEGEND

AFS ARC FLASH SENSORS LOCATED WITHIN

CODE SCHEDULE

DLtS	DOOR LIMIT SWITCH
LCTM	LOWER CROWN OF WINDING TEMPERATURE MONITOR
MDr	MOTOR DECONTACTOR
METD	MOTOR ENCLOSURE RESISTANCE TEMPERATURE DETECTOR DECONTACTOR
METM	MOTOR ENCLOSURE TEMPERATURE MONITOR
MRTD	MOTOR RESISTANCE TEMPERATURE DETECTORS DECONTACTOR
MThD	MOTOR THERMISTOR DECONTACTOR
MThr	MOTOR THERMISTOR
PSI	POWER SYSTEM INTERFACE
TBTM	THRUST BEARING TEMPERATURE MONITOR
UCTM	UPPER CROWN OF WINDING TEMPERATURE MONITOR
WMTM	WINDING MOTOR FRAME TEMPERATURE MONITOR

DESIGN NOTES

1. *MOTOR AND PUMP MONITORING MAY ALSO BE DIRECT CONNECTED DEPENDENT ON PROJECT REQUIREMENTS*
2. *MOTOR CONNECTION OPTIONS BASED ON USE OF TOP CABLE Xtrem H07RN-F SUBMERSIBLE CABLE (NO PILOT CORES)*
3. *THE CONNECTION/DISCONNECTION METHOD (i.e. DECONTACTOR OR DISCONNECT CUBICLE) SHALL BE DETERMINED BY THE DESIGNER IN CONSULTATION WITH THE DESIGN MANAGER. THE MAXIMUM RATING OF A DECONTACTOR SHALL NOT EXCEED 90A*
4. *IF THE RTD SENSOR LOCATED WITHIN THE MOTOR ENCLOSURE IS IN A SPECIFIC LOCATION AND ITS LOCATION IS REQUIRED TO BE IDENTIFIED FOR PROJECT PURPOSES. THE METM AND MERD CODES AND DESCRIPTIONS CAN BE RENAMED INLINE WITH CODES AND DESCRIPTIONS ASSIGNED FOR FOUR RTD MOTOR APPLICATIONS. TO BE DETERMINED BY THE PROJECT DESIGNER*

ISSUE	DATE	GRID	REVISION	DRN	REC	APPD
F	04/2023		RTD CONNECTION OPTIONS REVISED	PH	EG	EG
E	03/2021		MOTOR DISCONNECT CUBICLE DOOR LIMIT SWITCH REVISED	PH	EG	NJ
D	11/2019		MOTOR MONITORING OPTIONS REVISED	PH	EG	NJ
C	06/2019		DESIGN NOTE 3 ADDED	PH	EG	NJ
B	05/2018		DECONTACTOR SYMBOLOGY REVISED; DOOR LIMIT SWITCH ADDED MDr INTERLOCK CIRCUIT ADDED; NOTE 3 DELETED	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 OPTIONS
MOTOR CONNECTIONS – BORE

FILE | PLAN MN01-14-2 | CAD | ISSUE F | ORIGINAL SHEET SIZE A1
PROJECT | MF

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STANDARDS\APPROVED\MN01\MN01-014-002-01F 13:58 06/04/2023 HARVEYPO/NB46193