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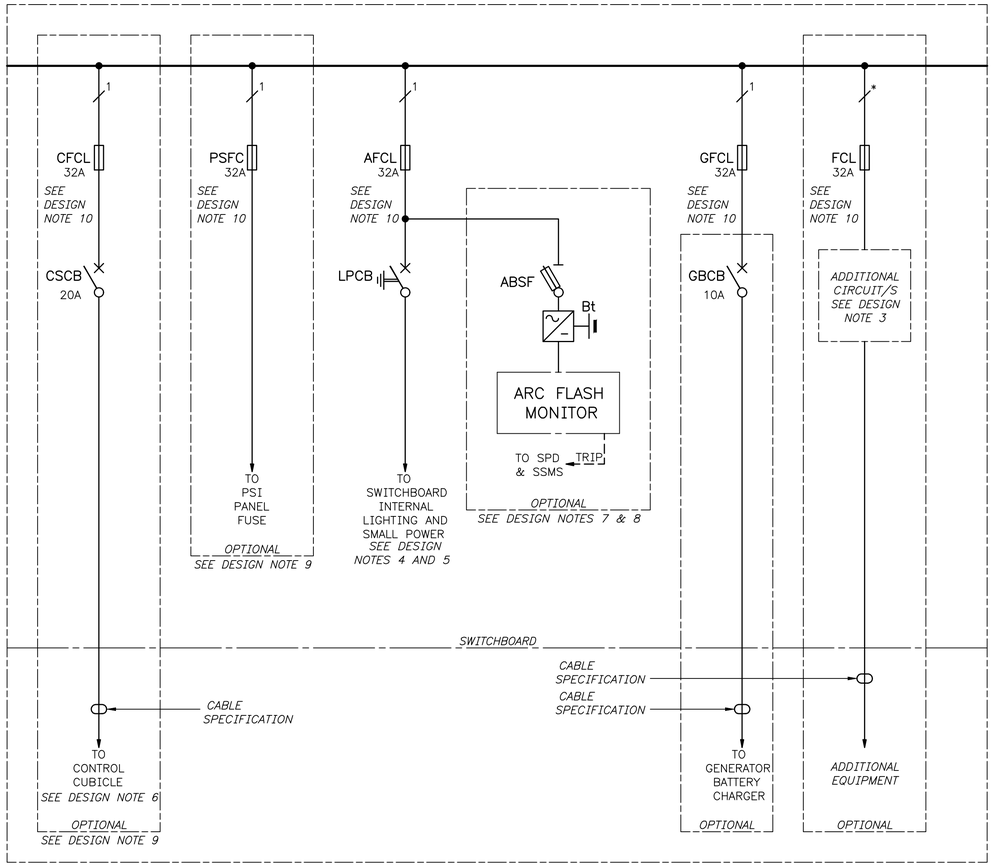
ADDITIONAL CIRCUITS PROTECTION EQUIPMENT SCHEDULE

CODE	SWBD RATED CURRENT	SPECIFICATION
**CB	100A, 220A, 440A	SCHNEIDER ELECTRIC, iC60N : **A, 6kA CIRCUIT BREAKER
**CB	100A, 220A, 440A *80A – 125A*	SCHNEIDER ELECTRIC, C120N : **A, 10kA CIRCUIT BREAKER
**CB	100A, 220A, 440A *RCD*	SCHNEIDER ELECTRIC, A9D736** : 240V, **A, 6kA, 1P+N, C–CURVE WITH 30mA RCD



CODE SCHEDULE

ABSF	ARC FLASH MONITOR BATTERY CHARGER SUPPLY FUSE
AFCL	ANCILLARY FAULT CURRENT LIMITER
Bt	BATTERY
CFCL	CONTROL FAULT CURRENT LIMITER
CSCB	CONTROL CUBICLE SUPPLY CIRCUIT BREAKER
FCL	FAULT CURRENT LIMITER
GBCB	GENERATOR BATTERY CHARGER CIRCUIT BREAKER
GFCL	GENERATOR BATTERY CHARGER FAULT CURRENT LIMITER
LPCB	LIGHTING AND POWER OUTLETS CIRCUIT BREAKER
PSFC	POWER SYSTEM INTERFACE FAULT CURRENT LIMITER

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*
4. *SWITCHBOARD INTERNAL LIGHTING AND SMALL POWER INCLUDES FRONT AND REAR LIGHTING IN EACH CUBICLE AND EXTERNAL CUBICLE–MOUNTED POWER OUTLET*
5. *SMALL POWER OPTIONAL FOR MAIN SWITCHBOARD ON MULTIPLE SWITCHBOARD SITE*
6. *CONTROL REQUIREMENTS DEFINED BY SCADA DESIGN ENGINEER*
7. *ARC FLASH PROTECTION SHALL BE SUBJECT TO ASSESSMENT IN ACCORDANCE WITH DS29 FOR ALL SWITCHBOARDS, MOTOR DISCONNECT AND GENERATOR CONNECT CUBICLES*
8. *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*
9. *FOR MULTIPLE SWITCHBOARD SITE, POWER SYSTEM INTERFACE AND CONTROL CUBICLE SUPPLY WILL TYPICALLY BE LOCATED IN PUMP STATION SWITCHBOARD ONLY*
10. *FAULT CURRENT LIMITERS (CFCL, PSFC, AFCL, GFCL, FCL) DOWNSTREAM FAULT CURRENT LEVEL LIMITED TO 1kA RMS*

ISSUE	DATE	GRID	REVISION	DRN	REC	APPD
E	01/2024		FAULT CURRENT LIMITERS CFCL, PSFC, CFCL, GFCL AND FCL SYMBOLS AND AMPERAGE REVISED AND DESIGN NOTE 10 ADDED. RCD MATERIAL SCHEDULE SPECIFICATION REVISED	SAM	TL	EG
D	02/2020		PROTECTION EQUIPMENT SCHEDULE ADDED	PH	TL	EG
C	12/2019		SWITCHBOARD RATED CURRENT 100A AND 220A OR 440A MERGED	SAM	TL	EG
B	11/2019		FCL'S ADDED	PH	EG	NJ

DESIGN SURVEY NONE | VERTICAL DATUM NONE | COORDINATE SYS NONE | ASCON SURVEY NONE | DES REF | DES CALC T LIU | DES CHD E GLIWSKI | DRN P HARVEY | Q.C. CHD S MEMORY | NORTH POINT

ENGINEERING

SUBMITTED 26/02/2019 T LIU (SIGNED) SENIOR ENGINEER – ELECTRICAL

RECOMMENDED 26/02/2019 E GLIWSKI (SIGNED) PRINCIPAL ENGINEER – ELECTRICAL

APPROVED 26/02/2019 N JOHNSON (SIGNED) SNR PRINCIPAL ENGINEER – ELECT

WATER CORPORATION

ELECTRICAL STANDARD SWITCHBOARD DESIGNS
SMALL PUMP STATIONS
PRIMARY DESIGN – POWER DIAGRAM TEMPLATE OPTIONS
ANCILLARY CIRCUITS

FILE | PLAN MN01–11–2 | CAD | ISSUE E | ORIGINAL SHEET SIZE A1
PROJECT | MF

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