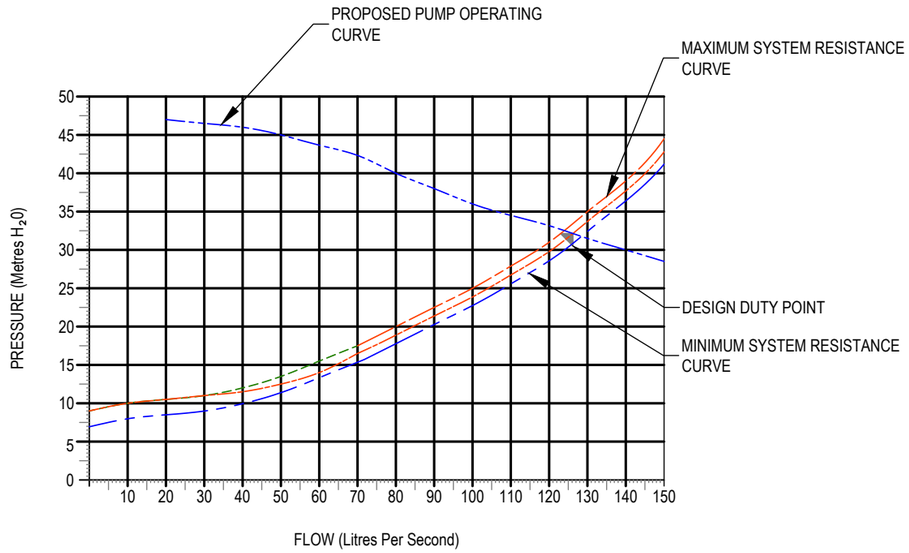
NOTES:

1. FIGURED DIMENSIONS TO BE TAKEN IN PREFERENCE TO SCALED DIMENSIONS.
2. VERIFY ALL DIMENSIONS ON THE JOB BEFORE COMMENCING WORK OR PREPARING SHOP DRAWINGS.
3. ALL SHOP DRAWINGS MUST BE APPROVED BY COUNCIL BEFORE COMMENCING WORK.
4. DRAWINGS TO BE READ IN CONJUNCTION WITH RELEVANT SPECIFICATIONS.
5. EXAMPLE LAYOUT ONLY; PROJECT SPECIFIC LAYOUT TO BE SUBMITTED FOR APPROVAL PRIOR TO COMMENCEMENT.
6. THE CURVES SHOWN ON THIS DRAWING ARE GIVEN AS A SAMPLE ONLY AND SHOW A STATION WITH ONE DUTY PUMP OPERATING AND AT A SINGLE SPEED.
7. FOR STATIONS WITH MORE THAN ONE DUTY PUMP ADDITIONAL CURVES ARE REQUIRED FOR EACH ADDITIONAL PUMP RUNNING.
8. FOR INSTALLATIONS WITH VARIABLE SPEED DRIVES PUMP CURVES ARE REQUIRED FOR PUMP SPEED AT 5Hz INCREMENTS FROM 25Hz TO 50 Hz
9. THE PROJECT DRAWING MUST CONTAIN CURVES WHICH REFLECT THE PUMPS INSTALLED.
10. THE TABLES SHOWN ON THIS DRAWING MUST BE POPULATED AND INCLUDED IN THE PROJECT DRAWINGS.
11. PUMP DUTY POINT TO BE BASED ON THE GRC DESIGN GUIDELINES AND WSA 04-2005
12. PUMP TO BE CAPABLE OF ACHIEVING DUTY POINTS OVER THE RANGE BETWEEN THE MAXIMUM AND MINIMUM CURVES.



FLOW DETAILS				
FLOW RATES	FLOW RATE INTO PUMPING STATION (L/s)	VELOCITY IN RISING MAIN (m/s)	NUMBER OF PUMP STARTS PER HOUR	RISING MAIN RETENTION TIME (mins.)
PWWF				
PDWF				
ADWF				
MDWF				

PUMP DETAILS				
NUMBER OF DUTY PUMPS				
NUMBER OF STANDBY PUMPS				
TOTAL NUMBER OF PUMPS				
	PUMP 1		PUMP 2	
PUMP MANUFACTURER				
PUMP MODEL				
PUMP TYPE				
- SUBMERSIBLE				
- GRINDER				
- DRY				
PUMP IMPELLER DIAMETER				
PUMP MANUFACTURER CURVE No.				
OPERATING POINT (1 PUMP)	L/s @	m	L/s @	m
OPERATING POINT (2 PUMPS)	L/s @	m	L/s @	m
SHUT OFF HEAD		m		m
COOLING JACKET		Yes/No		Yes/No
NPSHr		m		m
DISCHARGE DIAMETER 'X'	ϕ'X'	mm	ϕ'X'	mm
DISCHARGE STYLE (OFFSET OR CENTRE)				
GUIDE RAIL SIZE		mm		mm
SHAPE OF GUIDE RAILS				
NUMBER OF GUIDE RAILS PER PUMP				
PUMP MASS		kg each		kg each
MOTOR MANUFACTURER				
MOTOR kW RATING	kW @	PF	kW @	PF
MOTOR VOLTAGE	V	Phase	V	Phase
MOTOR SPEED AT 50 Hz				
MOTOR START TYPE				
NUMBER OF POLES				
FULL LOAD CURRENT		Amps		Amps
THERMAL OL or CEF or CET				
CB TYPE & RATING		Amps		Amps
NUMBER OF CORES PER PHASE				
THERMISTOR CABLE INCLUDED		Yes/No		Yes/No
MOTOR CABLE LENGTH		Metres		Metres
SYSTEM H-Q CURVE SHOWN		Yes/No		Yes/No
PUMP H-Q CURVE SHOWN		Yes/No		Yes/No

RISING MAIN DETAILS	
PIPE NOMINAL DIAMETER	
PIPE MATERIAL	
PIPE MANUFACTURER	
PIPE INTERNAL DIAMETER	mm
PIPE OUTSIDE DIAMETER	mm
PIPE PN RATING	
VELOCITY AT 50 Hz FROM TWL	
VELOCITY AT MINIMUM Hz FROM BWL	
RISING MAIN VOLUME	m^3

SWITCHBOARD DETAILS	
RATING	Amps
ELECTRICAL MAINS SIZE	mm^2

APPLICABILITY TABLE							
Council	**BSC**	**CHRC**	**GRC**	**IRC**	**LSC**	**MRC**	**RRC**
Applicable	No	No	Yes	No	No	No	No
Applicable DWG							

REVISIONS		DATE
A	PREVIOUSLY DRAWING S-050B REVISION B	09/2022

Capricorn Municipal Development Guidelines

Incorporating:

Banana Shire Council (BSC)
Central Highlands Regional Council (CHRC)
Gladstone Regional Council (GRC)
Livingstone Shire Council (LSC)
Maranoa Regional Council (MRC)
Rockhampton Regional Council (RRC)
Isaac Regional Council (IRC)

SEWERAGE PUMP STATIONS PUMP AND SYSTEM CURVES

SEWER
STANDARD DRAWING | A3
CMDG-S-042
REV. A