

KEY ELEVATIONS:		NOTES
PUMP ROOM FLOOR	223.124	
RIM OF MANHOLE	232.629	

PUMP CONTROL SETPOINTS				
	START		STOP	
	ABSOLUTE	RELATIVE	ABSOLUTE	RELATIVE
ONE PUMP	SEE NOTE 2	2.18m (7.16ft)	SEE NOTE 2	1.42m (4.66ft)
TWO PUMPS	SEE NOTE 2	2.33m (7.66ft)	SEE NOTE 2	1.27m (4.16ft)
THREE PUMPS	SEE NOTE 2	2.48m (8.16ft)	SEE NOTE 2	1.11m (3.66ft)

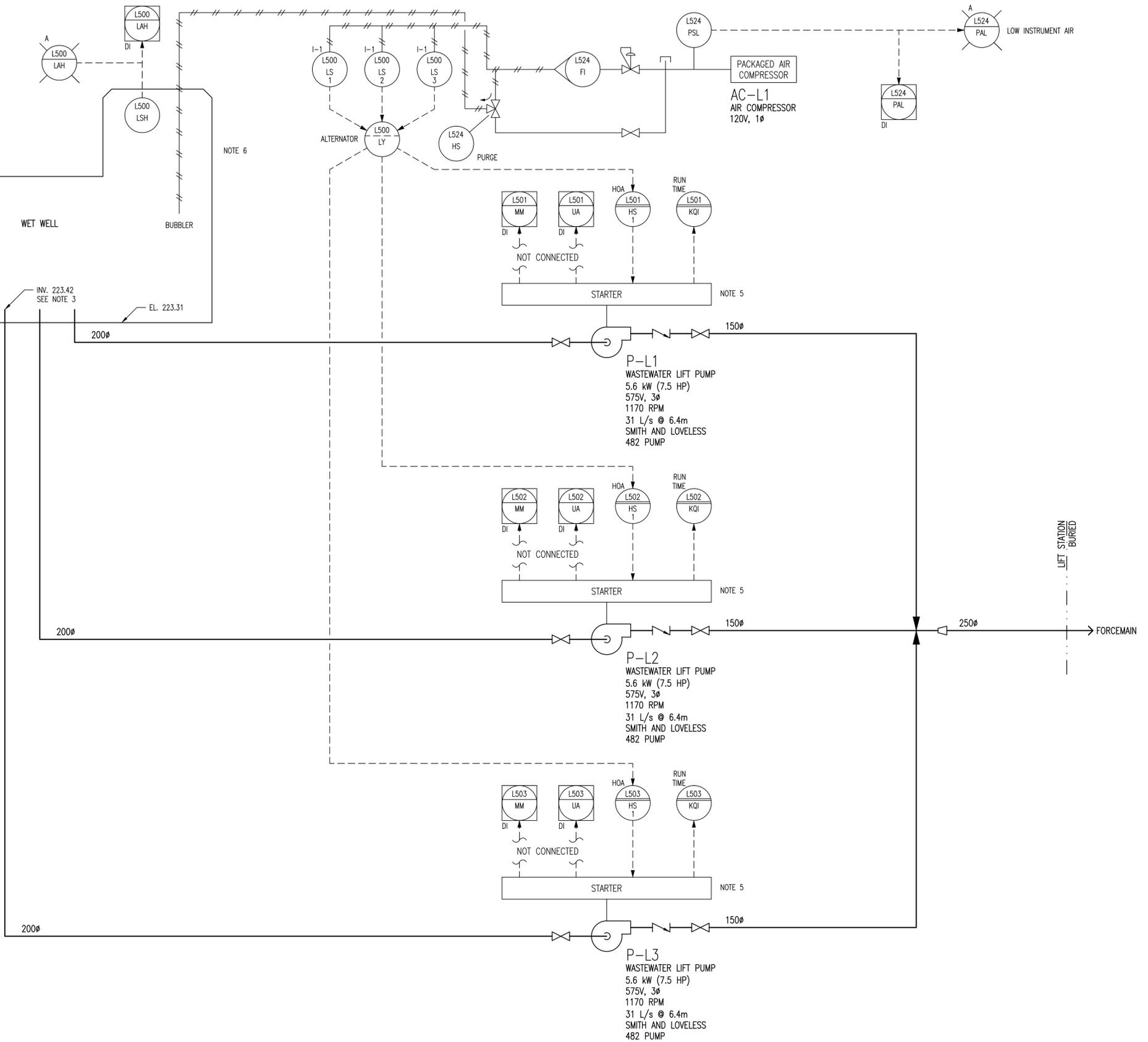
- NOTES:**
- RELATIVE SETPOINTS ARE BASED UPON ORIGINAL SMITH & LOVELESS INFORMATION AND MAY NOT BE ACCURATE. CITY TO CONFIRM SETPOINTS.
  - ABSOLUTE SETPOINTS ARE NOT KNOWN AS THE ELEVATION OF THE BUBBLER PIPE DISCHARGE AND THE EXACT CALIBRATION OF THE LEVEL SWITCHES ARE NOT KNOWN. CITY TO CONFIRM SETPOINTS.

**INCONSISTENCIES:**

- I-1: L500-LS1, L500-LS2, AND L500-LS3 ARE INCORRECTLY LABELLED CL-111-Y-1, 2, AND 3.

**LEGEND:**

- DEVICE DESCRIPTORS:**
- A AMBER
  - DI DISCRETE INPUT
  - HOA HAND/OFF/AUTO
- FUNCTIONAL IDENTIFIERS:**
- FI FLOW INDICATOR
  - HS HAND SWITCH
  - KQI TOTAL RUN TIME
  - LAH LEVEL ALARM HIGH
  - LS LEVEL SWITCH
  - LSH LEVEL SWITCH HIGH
  - LY LEVEL RELAY
  - MM MOTOR RUNNING
  - PAL PRESSURE ALARM LOW
  - PSL PRESSURE SWITCH LOW
  - UA MOTOR FAULT



**NOTES:**

- ALL INSTRUMENT IDENTIFIERS HAVE AN OPTIONAL FACILITY PREFIX OF "BUR-". EXAMPLE: BUR-L501-HS-1
- ALL INSTRUMENTS SHOWN IN AN AUXILIARY LOCATION ARE IN THE STARTER PANEL MSP-L2, UNLESS OTHERWISE INDICATED.
- ELEVATION NOT CONFIRMED BY SURVEYOR.
- PIPING MATERIALS AND GRADE ARE TO BE CONFIRMED.
- MOTORS ARE CLOSE COUPLED WITH PUMPS.
- NO OVERFLOW/OUTFALL EXISTS AT BURROWS PUMPING STATION
- THIS DRAWING IS BASED ON LIMITED AVAILABLE DOCUMENTATION AND VISUAL SITE INVESTIGATIONS. ELECTRICAL CONTROL SCHEMATICS WERE NOT AVAILABLE AND THUS SOME OF THE CONTROLS ARE ASSUMED.



NO.	REVISIONS	DATE	DESIGN	CHECK
00	ISSUED FOR CITY USE	2012/01/31	TMC	

<p>SNC-LAVALIN INC. 148 Nature Park Way Winnipeg, MB, Canada R3P 0X7 204-786-8080</p>		ENGINEER'S SEAL
DESIGNED BY: EXISTING	CHECKED BY: T. CHURCH	
DRAWN BY: S. FUNK	APPROVED BY: C. REIMER	
SCALE: NTS	RELEASED FOR CONSTRUCTION BY: DATE:	
DATE: 2011/02/02	DATE:	
CONSULTANT NO.:		

**THE CITY OF WINNIPEG**  
WATER AND WASTE DEPARTMENT

BURROWS WASTEWATER PUMPING STATION  
PUMPING STATION CONDITION ASSESSMENT PHASE 1  
PROCESS & INSTRUMENTATION DIAGRAM  
WASTEWATER PUMPING

CITY DRAWING NUMBER	SHEET	REV.	SIZE
1-0121L-P0001	001	00	A1