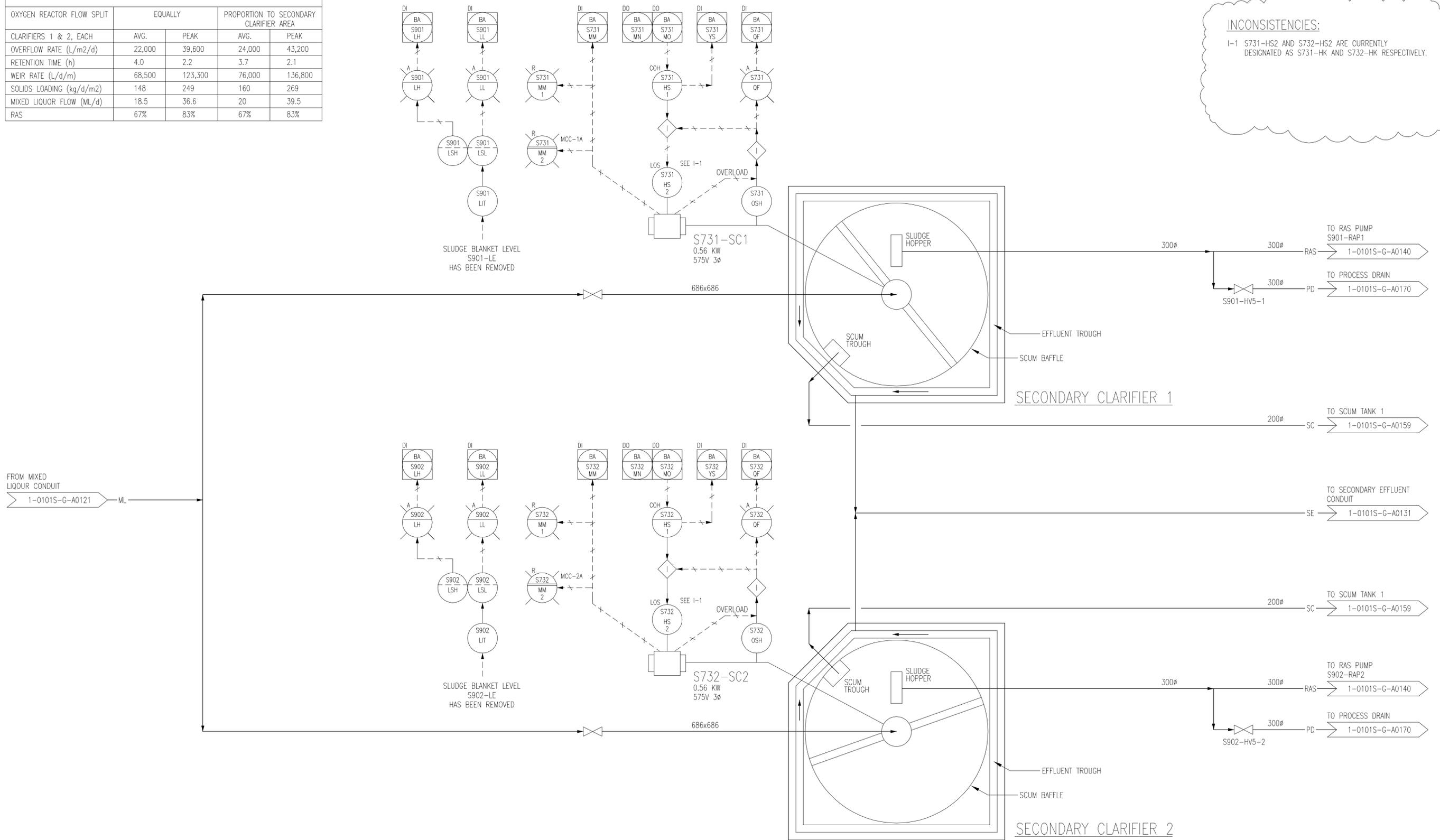


DESIGN DATA

OXYGEN REACTOR FLOW SPLIT	EQUALLY		PROPORTION TO SECONDARY CLARIFIER AREA	
	AVG.	PEAK	AVG.	PEAK
CLARIFIERS 1 & 2, EACH				
OVERFLOW RATE (L/m ² /d)	22,000	39,600	24,000	43,200
RETENTION TIME (h)	4.0	2.2	3.7	2.1
WEIR RATE (L/d/m)	68,500	123,300	76,000	136,800
SOLIDS LOADING (kg/d/m ²)	148	249	160	269
MIXED LIQUOR FLOW (ML/d)	18.5	36.6	20	39.5
RAS	67%	83%	67%	83%

INCONSISTENCIES:
 I-1 S731-HS2 AND S732-HS2 ARE CURRENTLY DESIGNATED AS S731-HK AND S732-HK RESPECTIVELY.



FROM MIXED LIQUOR CONDUIT
 1-0101S-G-A0121 ML

SLUDGE BLANKET LEVEL S901-LE HAS BEEN REMOVED

SLUDGE BLANKET LEVEL S902-LE HAS BEEN REMOVED

SECONDARY CLARIFIER 1

SECONDARY CLARIFIER 2

1-0101A-D-A0001	PROCESS AND INSTRUMENT DIAGRAMS LEGEND AND DETAILS
DRAWING NUMBER	REFERENCE DRAWINGS

B.M. ELEV.	FIELD BOOK #:	SNC • LAVALIN Engineers & Constructors		SNC • LAVALIN 200-1600 Ness Avenue Winnipeg, Manitoba Canada R2C 3W7		ENGINEER'S SEAL
POSTED TO LBS		DESIGNED BY	EXISTING	CHECKED BY	CJR	
		DRAWN BY	KPP	APPROVED BY	EMR	
02	RENUMBERED FACILITY CODE	2005/10/06	CJR	HOR. SCALE	NTS	RELEASED FOR CONSTRUCTION
01	ISSUED FOR C.O.W. USE	2005/09/15	CJR	VERTICAL		
00	RELEASED FOR CUSTOMER REVIEW.	2004/11/23	CJR	DATE	2004/08/10	DATE
NO.	REVISIONS	DATE	BY	FILENAME: 1-0101S-G-A0122-001-02D.dwg		

THE CITY OF WINNIPEG
 WATER AND WASTE DEPARTMENT

NORTH END WATER POLLUTION CONTROL CENTRE
 SECONDARY CLARIFIERS
 PROCESS & INSTRUMENTATION DIAGRAM
 CLARIFIERS 1 & 2

CITY DRAWING NUMBER	SHEET	REV.	SIZE
1-0101S-G-A0122	001	02	D