



25.0 ML/DAY ADWF
(1989 FLOW)
30.0 ML/DAY ADWF
(1999 FLOW)

| DESIGN PARAMETERS FOR THE PRIMARY SEDIMENTATION EXPANSION | | |
|--|-----------------------------|----------------|
| | EXISTING PRIMARY CLARIFIERS | |
| | NO. 3 | NO. 4 (FUTURE) |
| CLARIFIER CHARACTERISTICS | | |
| LENGTH - m | 51.9 | 51.9 |
| WIDTH - m | 19.2 | 19.2 |
| SIDE WATER DEPTH - m | 4.3 | 4.3 |
| SURFACE AREA (m ²) | 995 | 995 |
| VOLUME (m ³) | 4284 | 4284 |
| WEIR LENGTH - m | 81.6 | 81.6 |
| 1989 DESIGN | | |
| FLOW DISTRIBUTION | | |
| - ADWF (88 ML/d) | 30 | 30 |
| - PWWF (264 ML/d) | 90 | 90 |
| - % | 34 | 34 |
| DETENTION TIME (h) | | |
| - AVERAGE FLOW | 3.4 | 3.4 |
| - PEAK FLOW | 1.1 | 1.1 |
| SURFACE OVERFLOW RATE m³/(m²·d) | | |
| - AVERAGE FLOW | 30 | 30 |
| - PEAK FLOW | 90 | 90 |
| WEIR LOADING m³/(m²·d) | | |
| - AVERAGE FLOW | 367 | 367 |
| - PEAK FLOW | 1100 | 1100 |

NOTE:
 ROL: REMOTE/OFF/LOCAL
 EOW: EAST/OFF/WEST
 SOF: SLOW/OFF/FAST
 UOD: UP/OFF/DOWN

AS CONSTRUCTED
 DATE 05/91 BY R.H.
 APPROVED BY K.J.

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| B.M. ELEV. | MACLAREN ENGINEERS INC. WARDROP ENGINEERING INC. ENGINEERING CONSULTANTS | | | THE CITY OF WINNIPEG WORKS AND OPERATIONS DIVISION WATERWORKS, WASTE & DISPOSAL DEPARTMENT SOUTH END WATER POLLUTION CONTROL CENTRE PRIMARY CLARIFIER EXPANSION - ELECTRICAL PRIMARY CLARIFIER 3 BRIDGE CONTROL P & ID |
| DESIGNED BY K.J. | CHECKED BY [Signature] | APPROVED BY [Signature] | | |
| DRAWN BY N.C. | HOR. SCALE: N.T.S. | RELEASED FOR CONSTRUCTION: [Signature] | SHEET OF | |
| NO. REVISIONS | DATE BY | DATE FEBRUARY 1989 | SEP-321 | |