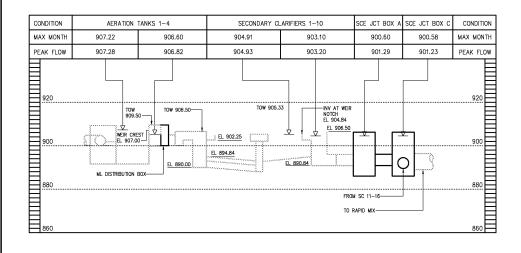
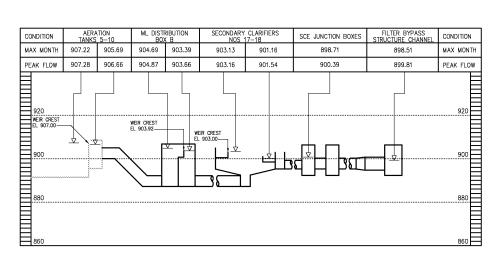


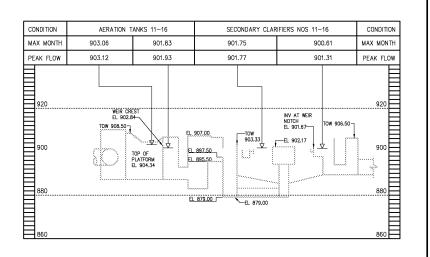
## NOTES:

- 1 SEE TABLE BELOW FOR MAXIMUM MONTH AND PEAK FLOWS USED TO CALCULATE PROFILE.
- 2 THE MAXIMUM MONTH HYDRAULIC PROFILE ASSUMES NORMAL WATER LEVEL IN RIVER AND NO EFFLUENT PUMPING. PEAK FLOW PROFILE ASSUMES 100 YEAR FLOOD LEVEL IN RIVER WITH EFFLUENT PUMPING.





ACTIVATED SLUDGE TRAIN B



ACTIVATED SLUDGE TRAIN A

	DADID MIV /	T							
CONDITION	RAPID MIX / CHEMICAL ADDITION	FLOCCULATION BASINS	COAGULATION S	SETTLING BASINS	EFFLUEN	T FILTERS	CHLORINE CON	ITACT TANKS	CONDITION
MAX MONT	H 900.40	900.27	900.13	898.51	898.50	898.27	891.00	888.12	MAX MONTH
PEAK FLOW	900.74	900.46	900.15	899.02	899.00	898.24	891.28	889.59	PEAK FLOW
920 900 880	FROM BAF	1 1		700	TOP OF TROUGH EL 897.75 906.67  EL 891.00  EL 892.00  EL 892.75  FROM SECONDARY CLARIFIERS 17–18		<u> </u>	□ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □	920

## ACTIVATED SLUDGE TRAIN C

PLANT FLOWS (MGD)					
PROFILE SEGMENT	MAX MONTH FLOW	PEAK FLOW			
INFLUENT PUMP STATION THROUGH PRIMARY CLARIFIERS	60.0	137.5			
PRIMARY CLARIFIERS TO BAF/EQ PUMP STATION	14.0	57.0			
PRIMARY CLARIFIERS THROUGH ACTIVATED SLUDGE	46.0	80.5			
ACTIVATED SLUDGE TRAIN A	11.5	20.1			
ACTIVATED SLUDGE TRAIN B	17.25	30.2			
ACTIVATED SLUDGE TRAIN C	17.25	30.2			
EFFLUENT FILTERS TO OUTFALL	LUENT FILTERS TO OUTFALL 55.0				
RAPID MIX/FLOC/COAGS	42.8	64.3			
	THE SCALE BAR DATE	MARCH 2004			

				DESIGNED	DAN
				DRAWN	H&S
				CHECKED	
-	AC DUILT	OCT 2007	RLT		DAN
3	AS BUILT CONSTRUCTION	MAR 2004		PROJ. ENGR	DAN
1	REGULATORY APPROVAL	NOV 2003	RLT		
NO.	ISSUED FOR	DATE	BY	APPROVED	

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CITY OF ROANOKE VIRGINIA

REGIONAL WATER POLLUTION CONTROL PLANT PROCESS TRAIN IMPROVEMENTS

YDRAULIC PROFILE	

THE SCALE BAR	DATE MARCH 2004			
SHOWN BELOW MEASURES ONE	H & S JOB NUMBER	30788B		
INCH LONG ON THE ORIGINAL DRAWING.	CONTRACT NUMBER B	DRAWING NUMBER M3		