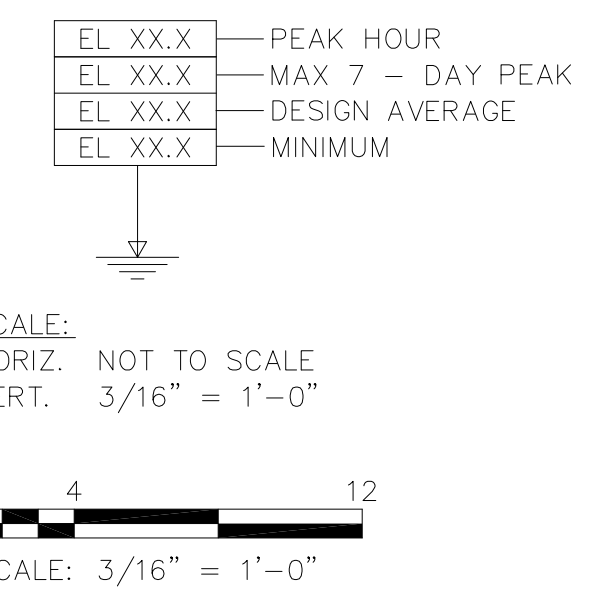


FLOW CONDITION	ASE INFLUENT FLOW (MGD)	EFFLUENT FILTERS		CHLORINE CONTACT TANKS		POST AERATION TANKS		OUTFALL PLANT FLOW (MGD)
		FILTER INFLUENT FLOW (MGD)	UNITS IN OPERATION/ UNITS AVAILABLE	CHLORINE CONTACT TANK INFLUENT FLOW (MGD)	UNITS IN OPERATION/ UNITS AVAILABLE	POST AERATION INFLUENT FLOW (MGD)	UNITS IN OPERATION/ UNITS AVAILABLE	
PEAK HOUR	131.5	131.5	15/17	126.0	2/2	126.0	2/2	120.0
MAX 7-DAY	96.4	96.4	15/17	92.4	2/2	92.4	2/2	86.4
DESIGN AVERAGE	47.0	47.0	15/17	46.0	2/2	46.0	2/2	40.0
MINIMUM	23.8	23.8	15/17	23.3	2/2	23.3	2/2	17.3



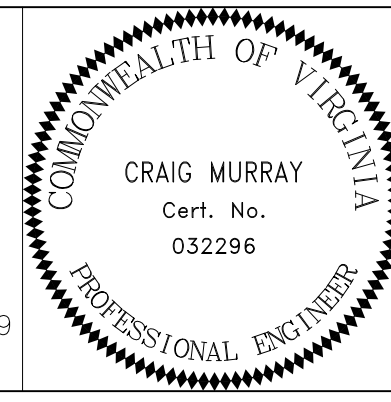
- NOTES:
1. NEW CHLORINE CONTACT TANKS ARE LOCATED BENEATH THE NEW EFFLUENT FILTERS AND HAVE NO FREE WATER SURFACE.
 2. 100 YEAR FLOOD ELEVATION AT FOUR MILE RUN.
 3. EFFLUENT FROM CCT NOS. 1 AND 2 IS CONVEYED TO CCT NOS. 3 AND 4 THROUGH PARALLEL 72" PIPES. ONE CONNECTS DIRECTLY TO THE INFLUENT CHANNEL, THE OTHER TO THE EXISTING 60" PIPE.
 4. ADDITIONAL INFLUENT FLOWS MAY BE PROVIDED TO THE INFLUENT BY THE 60" GRAVITY FILTER INFLUENT (NOT SHOWN) AND THE 48" ASE-2 PUMP STATION DISCHARGE (PHASE 7B).
 5. VPDES PERMIT DESIGN FLOW FOR THIS FACILITY IS 30 MGD.

User:McGeehan_Spec:ARLINGTON_CWTF_Plan:V42B-02(RED)_D055\00073000.DWG Scale: 11 Date:11/09/2005 Time:11:11 Layout:G00-10

DESIGNED	SDP/MLS	HORIZONTAL DATUM IS REFERENCED TO VIRGINIA STATE GRID, NORTH AMERICAN DATUM 1983 (NAD 83)
DRAWN	AJS	VERTICAL DATUM IS REFERENCED TO NATIONAL GEODETIC VERTICAL DATUM OF 1929 (NGVD 29)
CHECKED	GJD	
PROJ.ENGR.	CWM	
CAD REF. NO.	1G0073000	
APPROVED		
A	CONFORMED DOCUMENT	9-01-06
NO.	ISSUED FOR	DATE

HORIZONTAL DATUM IS REFERENCED TO VIRGINIA STATE GRID, NORTH AMERICAN DATUM 1983 (NAD 83)

VERTICAL DATUM IS REFERENCED TO NATIONAL GEODETIC VERTICAL DATUM OF 1929 (NGVD 29)



ARLINGTON COUNTY
WATER POLLUTION CONTROL PLANT

UPGRADE AND EXPANSION
PHASE 7A

HYDRAULIC PROFILE
EFFLUENT FILTERS TO OUTFALL

THE SCALE BAR SHOWN BELOW MEASURES ONE INCH LONG ON THE ORIGINAL DRAWING.	DATE: DECEMBER 2005
	DRAWING NUMBER
	G00-10
	SHEET . OF