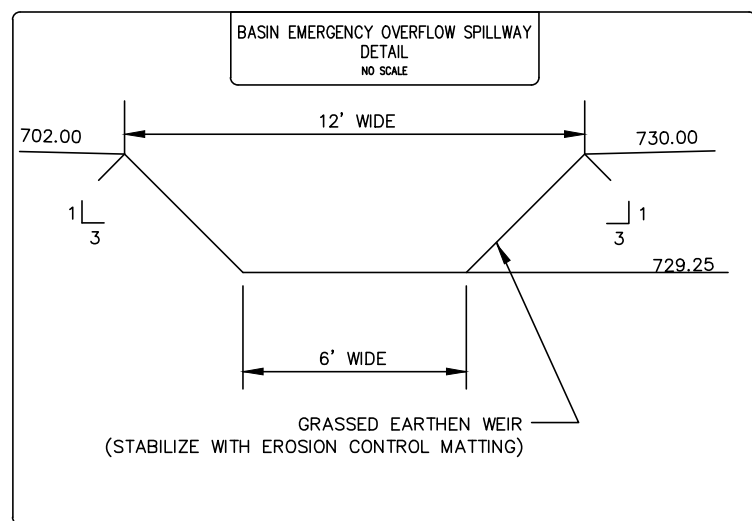


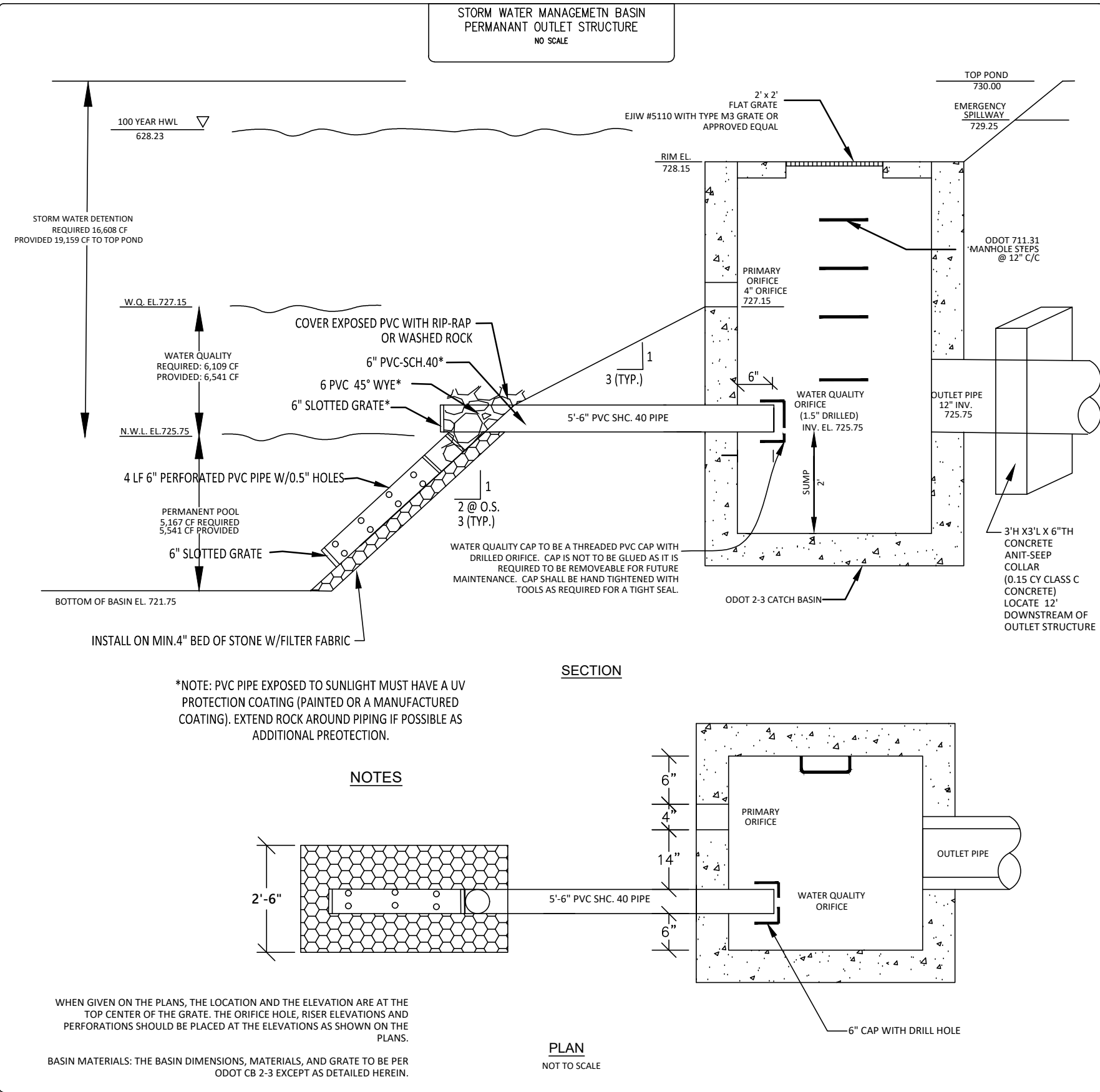


PROJECT Rowan Gate

PROJECT NO. 22171 SHEET NO. 1 OF 1

SUBJECT TEMPORARY Sediment Basin Calculation

Sediment Storage Volume									
Total Disturbed Area:	A	=	3.83	Acres					
Required Sediment Storage Volume:	S _r	=	1000	CF/Acre					
			3830	CF					
Provided Sediment Storage Volume:	S _v	=	5,541	CF					
					Between Elevations:				
					Btm	=	721.75	NWL	= 725.75
Dewatering Storage Volume									
Total Watershed Area	A	=	3.83	Acres					
Required Dewatering Volume:	D _r	=	1800	CF/Acre					
			6894	CF					
Provided Dewatering Volume:	D _v	=	8924	CF					
					Between Elevations:				
					NWL	=	725.75	Req. V ₀	= 727.70
					NWL	=	725.75	Orifice/Rim	= 728.15
Marelee Float Skimmer Sizing									
	Head	H	=	1.95	FT				
	Skimmer Size		=	2	IN				
	Skimmer Orifice		=	1.5	IN				
	Drawdown Rate		=	2806	CFD				
						(Interpolated From Table on Skimmer Detail)			
Calculated Drawdown		=	6894	/	2806	=	2.457	Days	= 59 Hours
Drawdown time to be greater than 48 hrs & Less than 168 hrs									



OF