



IOWA DEPARTMENT OF NATURAL RESOURCES
 WATER SUPPLY ENGINEERING SECTION
CONSTRUCTION PERMIT APPLICATION
 SCHEDULE-10, Suspended Solids Contact

Date Prepared _____	Project Name/Description
Date Revised _____	

1.	Design Data:	Unit No.	Unit No.
	Capacity (gpm)		
	Detention time (hours)		
	Flocculation and mixing time (minutes)		
	Upflow rate at solids separation line (gpm/ft ²)		
	Weir (launder) length (feet)		
	Weir (launder) loading rate (gpm/ft)		
	Tank parameter (feet)		
	Water loss (water to waste %)		
	Solids concentration (sludge bled to waste %)		
	Diameter of sludge withdrawal piping (inches)		
	Softening unit-continuous slurry concentrate (%)		

2. For the following, reference the page of the plans or specifications where the description can be found.

Materials and Construction Details	Plan or Specification Page Number
Equipment Installation	
Chemical Feed	
Mixing	
Flocculation	
Sludge Concentrators	
Weir or Orifices	

3. Chemical Addition:

Chemical	Point of Addition

4. What is the magnitude of the mixing device speed adjustment? Spec. Page No. _____
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5. What provisions have been made for controlling the rate and sequencing of sludge withdrawal? Spec. Page No. _____
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6. Are cleanouts provided at all changes in pipe direction to facilitate cleaning? Yes No
7. Are all valves located outside of the tank? Yes No
8. Are sludge withdrawal pipes provided for each unit? Yes No
 What is the minimum air gap provided between the sludge outlet and the receiving sump? _____ inches
9. Can the operator observe and sample sludge? Yes No
10. If sludge lines, collectors or basins are provided with potable water flushing systems, are cross connection control devices provided which meet AWWA Standard C506 and are approved by the USC Testing Lab? Yes No
Spec Page No. _____
11. How is the rate of flow to the unit controlled? _____
- a. Maximum inlet flow rate: _____ gpm
- b. Maximum operating inlet flow rate: _____ gpm
12. Will rapid changes of flow to the unit occur? Yes No