



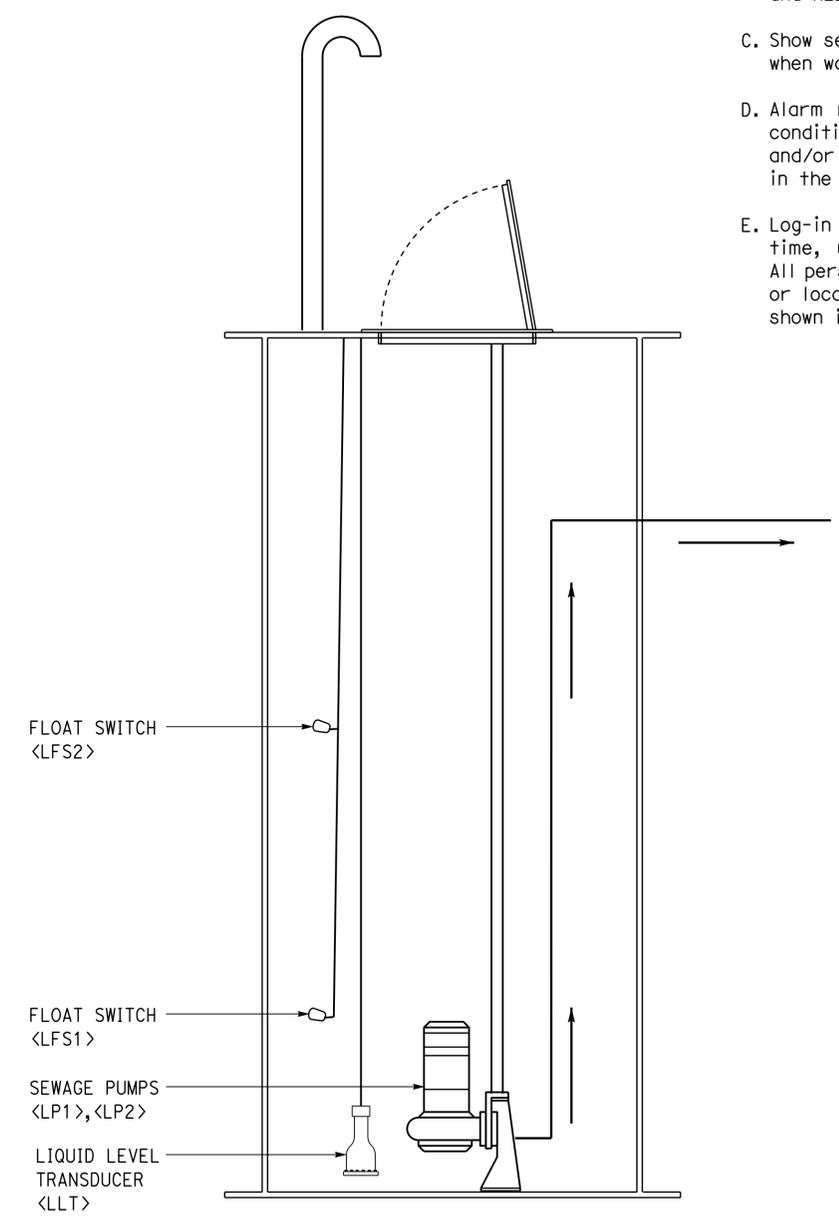
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
02, 03	Las, Sac	395, 5	49.6, 23.3	102	106

Reviewed by: *Jaswinder Gill*  
 ANDREW MCSORELY  
 Approval date: 2-19-15  
 CSFM FILE#01-18-11-0003-000

Registered Electrical Engineer DATE 6-19-15  
 6-22-15  
 PLANS APPROVAL DATE

The State of California or its officers or agents shall not be responsible for the accuracy or completeness of scanned copies of this plan sheet.

- GENERAL NOTES:
- Show liquid level inside the tank as BLUE.
  - Show <LFS1> and <LFS2> to be GREEN when activated and RED when not activated.
  - Show sewage pipe to be pulsating GREEN when wastewater is flowing.
  - Alarm must be pulsating RED when new alarm condition is present. The user who acknowledged and/or cleared the alarm must be kept and shown in the alarm history.
  - Log-in and settings history must show logs of date, time, user name and changes done on the settings. All persons or users who log-in and log-out remotely or locally to the SCADA system must also be shown in log-in and settings history.



**LIFT STATION**

- STATUS INDICATION
  - PUSHBUTTON
  - TEXT DISPLAY
  - TEXT DISPLAY WITH SCROLL UP/DOWN FUNCTION
- \* PASSWORD REQUIRED FOR OPERATION

STATUS			
		<LP1>	<LP2>
PUMP	ON	<input type="radio"/>	<input type="radio"/>
	OFF	<input type="radio"/>	<input type="radio"/>
OPERATION	AUTOMATIC	<input type="radio"/>	<input type="radio"/>
	MANUAL	<input type="radio"/>	<input type="radio"/>
	OFF	<input type="radio"/>	<input type="radio"/>
RUN TIME METER	HOURS	<input type="text"/>	<input type="text"/>
VOLTAGE	V <sub>AC</sub>	<input type="text"/>	<input type="text"/>
CURRENT	I <sub>A</sub>	<input type="text"/>	<input type="text"/>
	I <sub>C</sub>	<input type="text"/>	<input type="text"/>

* SETTINGS			
		<LP1>	<LP2>
PUMP OPERATION		<input type="radio"/> <input type="radio"/> <input type="radio"/>	<input type="radio"/> <input type="radio"/> <input type="radio"/>
	AUTO ON OFF		
SET POINT (INCH ABOVE FLOOR)	HIGH LEVEL	<input type="text"/>	<input type="text"/>
	PUMP ON	<input type="text"/>	<input type="text"/>
	PUMP OFF	<input type="text"/>	<input type="text"/>
	LOW LEVEL	<input type="text"/>	<input type="text"/>
RUN TIME/CYCLE ADJUSTMENT		<input type="text"/>	<input type="text"/>
NO. OF CYCLES/HOUR ADJUSTMENT		<input type="text"/>	<input type="text"/>
CONFIRM CHANGES		<input type="radio"/>	

LOG-IN AND SETTINGS HISTORY	
EFFLUENT WATER LEVEL <LLT>	FT <input type="text"/> <input type="text"/> % OF TANK VOLUME
HIGH LEVEL ALARM <LFS2>	<input type="radio"/>
LOW LEVEL ALARM <LFS2>	<input type="radio"/>

ALARM CONDITIONS AND HISTORY	
ALARM	<input type="text"/>
RESET	<input type="text"/>

APPROVED FOR ELECTRICAL WORK ONLY

DESIGN BY Andy Quan	CHECKED Jaswinder Gill	<b>STATE OF CALIFORNIA</b> DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE No.	<b>HONEY LAKE SRRA</b> <b>WASTEWATER SYSTEM IMPROVEMENTS</b> LIFT STATION SCREEN	SHEET
DETAILS BY Andy Quan	CHECKED Jaswinder Gill			POST MILE		SHEET OF <b>EE4-7</b> 41 45
QUANTITIES BY	CHECKED			49.6		

UNIT: 3597 CONTRACT No.: 02-4E6904 PROJECT NUMBER & PHASE: 02120000331  
 DISREGARD PRINTS BEARING EARLIER REVISION DATES

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS: 0 1 2 3  
 REVISION DATES (PRELIMINARY STAGE ONLY): 04/14/14, 12/2/14, 2-18-15, 6-19-15

TAEWW Imperial - CCSC Rev. 02/13  
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**CALIFORNIA STATE FIRE MARSHAL APPROVED**  
 Approval of this plan does not authorize or approve any omission or deviation from applicable regulations. Final approval is subject to field inspection. One set of approved plans shall be available on the project site at all times.  
 Reviewed by: *Andrew McSorely*  
**ANDREW MCSORELY**  
 Approval date: 2-19-15  
 CSFM FILE#01-18-11-0003-000

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
02, 03	Las, Sac	395, 5	49.6, 23.3	103	106

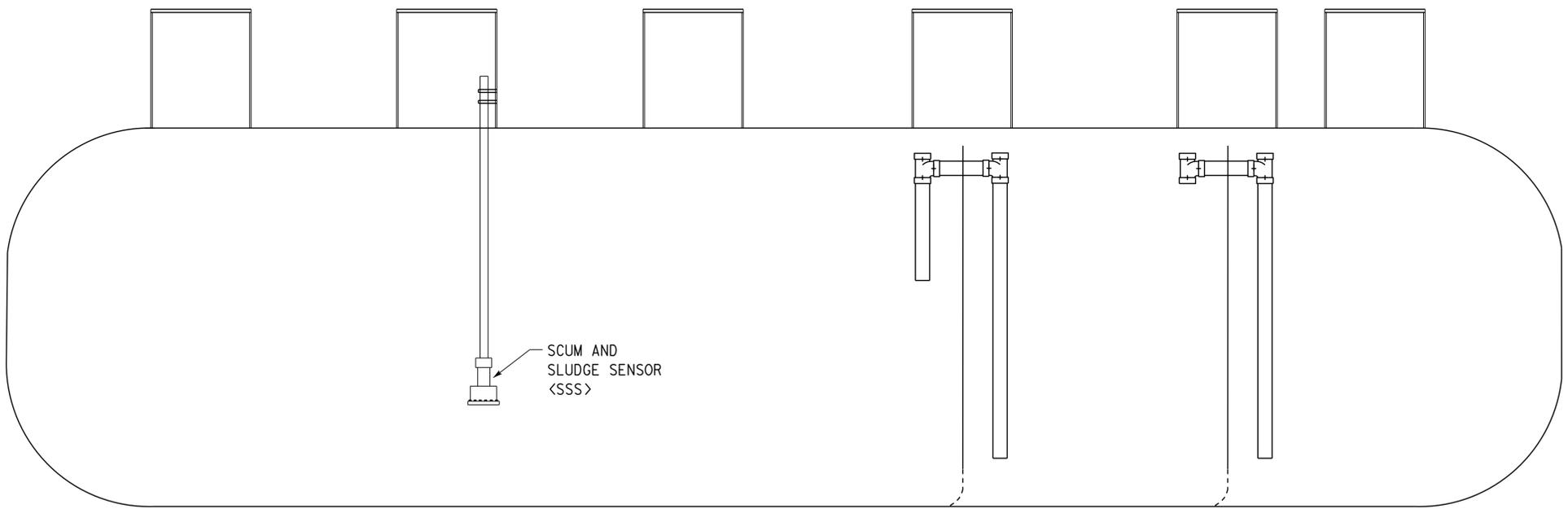
*Jaswinder Gill* 6-19-15  
 REGISTERED ELECTRICAL ENGINEER DATE  
 6-22-15  
 PLANS APPROVAL DATE

**REGISTERED PROFESSIONAL ENGINEER**  
 Jaswinder Gill  
 No. E 18551  
 Exp. 12-31-16  
 ELEC  
 STATE OF CALIFORNIA

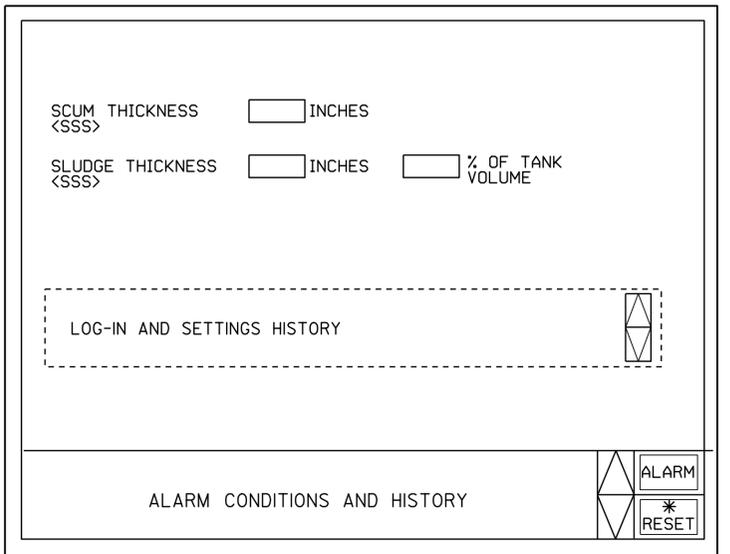
*The State of California or its officers or agents shall not be responsible for the accuracy or completeness of scanned copies of this plan sheet.*

**GENERAL NOTES:**

- A. Show scum level in light BROWN and sludge level in dark BROWN color in all three chambers and water level in YELLOW color.
- B. Show sludge transducer in flashing RED when in alarmed state.
- C. Generate alarm when sludge and scum total 30% of the tank volume.
- D. Log-in and settings history must show logs of date, time, user name and changes done on the settings. All persons or users who log-in and log-out remotely or locally to the SCADA system must also be shown in log-in and settings history.



**SEPTIC TANK**



[ ] TEXT DISPLAY  
 [ ] TEXT DISPLAY WITH SCROLL UP/DOWN FUNCTION  
 \* PASSWORD REQUIRED FOR OPERATION

APPROVED FOR ELECTRICAL WORK ONLY

DESIGN BY Andy Quan CHECKED Jaswinder Gill	DETAILS BY Andy Quan CHECKED Jaswinder Gill	QUANTITIES BY CHECKED	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE No.	HONEY LAKE SRRA WASTEWATER SYSTEM IMPROVEMENTS SEPTIC TANK SCREEN	SHEET
					POST MILE		EE4-8
					49.6		
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS				UNIT: 3597 CONTRACT No.: 02-4E6904 PROJECT NUMBER & PHASE: 0212000331	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY)	SHEET OF
0 1 2 3						04/14/14 12/14/14 2/18/15 6-19-15	42 45

TAEMWW Imperial - CCSC Rev. 02/13  
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General Notes:

- A. Show liquid level inside the tank as BLUE.
- B. Show <RFS1>, <RFS2>, <DFS1>, and <DFS2> to be GREEN when activated and RED when not activated.
- C. Show sewage pipe to be pulsating GREEN when wastewater is flowing.
- D. Alarm must be pulsating RED when new alarm condition is present. The user who acknowledged and/or cleared the alarm must be kept and shown in the alarm history.
- E. Log-in and settings history must show logs of date, time, user name and changes done on the settings. All persons or users who log-in and log-out remotely or locally to the SCADA system must also be shown in log-in and settings history.

**CALIFORNIA STATE FIRE MARSHAL APPROVED**

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Reviewed by: *[Signature]*  
ANDREW MCSORELY  
Approval date: 2-19-15

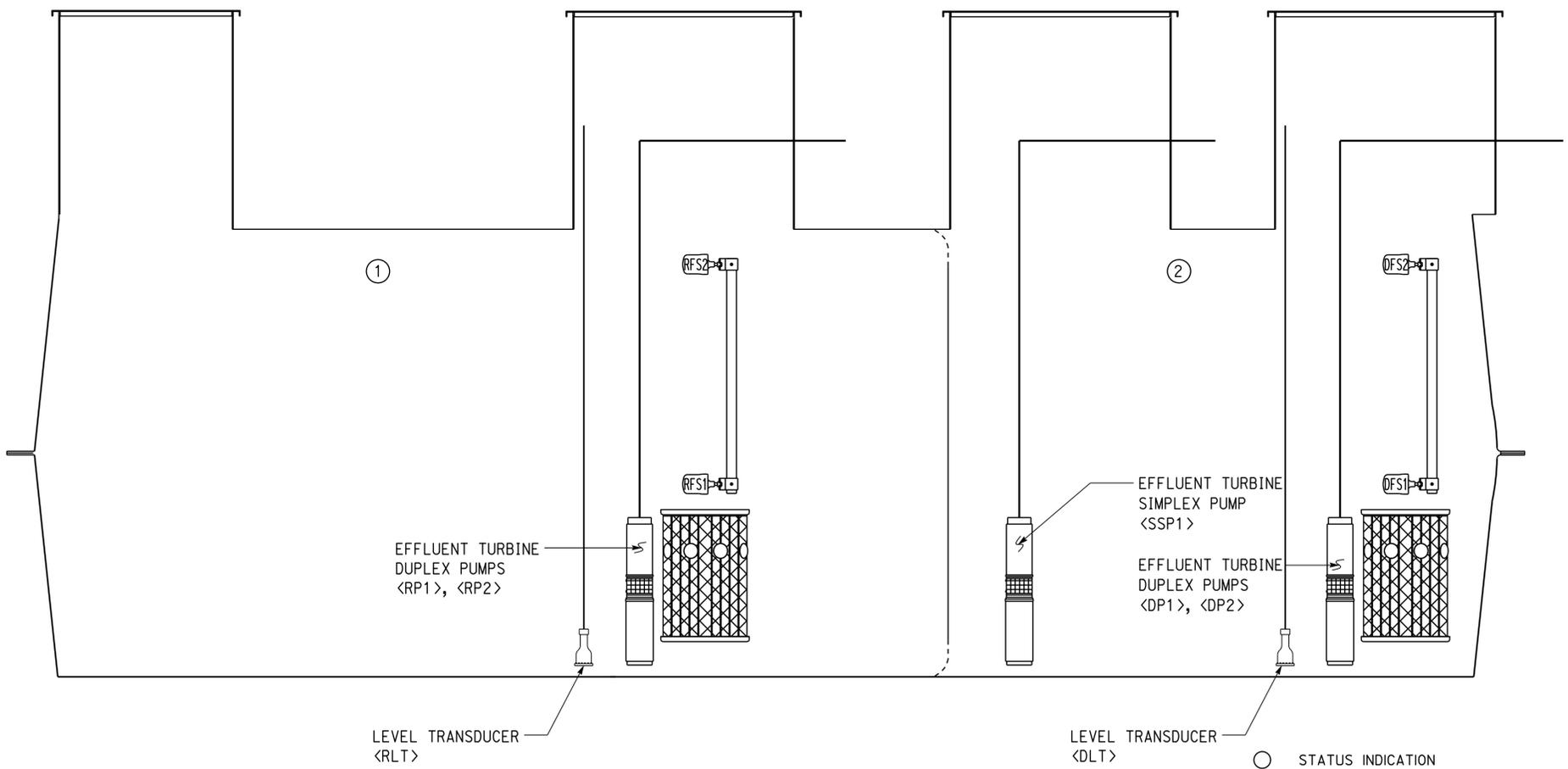
CSFM FILE#01-18-11-0003-000

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
02, 03	Las, Sac	395, 5	49.6, 23.3	104	106

*Jaswinder Gill*  
 REGISTERED ELECTRICAL ENGINEER DATE 6-19-15  
 6-22-15  
 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER  
 Jaswinder Gill  
 No. E 18551  
 Exp. 12-31-16  
 ELEC  
 STATE OF CALIFORNIA

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**RECIRCULATION TANK**

- STATUS INDICATION
  - PUSHBUTTON
  - TEXT DISPLAY
  - TEXT DISPLAY WITH SCROLL UP/DOWN FUNCTION
- \* PASSWORD REQUIRED FOR OPERATION

		RECIRCULATING SAND FILTER		SCUM SUPPRESSION	PUMP TO WETLANDS	
		RP1	RP2	SSP1	DP1	DP2
<b>STATUS</b>						
PUMP	ON	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
	OFF	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
CONTROL	REMOTE	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
	LOCAL	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
OPERATION	AUTOMATIC	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
	MANUAL	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
	OFF	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
RUN TIME METER	HOURS	<input style="width: 20px;" type="text"/>	<input style="width: 20px;" type="text"/>	<input style="width: 20px;" type="text"/>	<input style="width: 20px;" type="text"/>	<input style="width: 20px;" type="text"/>
VOLTAGE	V <sub>AC</sub>	<input style="width: 20px;" type="text"/>	<input style="width: 20px;" type="text"/>	<input style="width: 20px;" type="text"/>	<input style="width: 20px;" type="text"/>	<input style="width: 20px;" type="text"/>
CURRENT	I <sub>A</sub>	<input style="width: 20px;" type="text"/>	<input style="width: 20px;" type="text"/>	<input style="width: 20px;" type="text"/>	<input style="width: 20px;" type="text"/>	<input style="width: 20px;" type="text"/>
	I <sub>C</sub>	<input style="width: 20px;" type="text"/>	<input style="width: 20px;" type="text"/>	<input style="width: 20px;" type="text"/>	<input style="width: 20px;" type="text"/>	<input style="width: 20px;" type="text"/>
<b>* SETTINGS</b>						
PUMP OPERATION		<input type="radio"/> <input type="radio"/> <input type="radio"/>	<input type="radio"/> <input type="radio"/> <input type="radio"/>	<input type="radio"/> <input type="radio"/> <input type="radio"/>	<input type="radio"/> <input type="radio"/> <input type="radio"/>	<input type="radio"/> <input type="radio"/> <input type="radio"/>
		AUTO ON OFF    AUTO ON OFF    AUTO ON OFF    AUTO ON OFF    AUTO ON OFF				
SET POINT (INCH ABOVE FLOOR)	HIGH LEVEL	<input style="width: 20px;" type="text"/>	<input style="width: 20px;" type="text"/>	<input style="width: 20px;" type="text"/>	<input style="width: 20px;" type="text"/>	<input style="width: 20px;" type="text"/>
	PUMP ON	<input style="width: 20px;" type="text"/>	<input style="width: 20px;" type="text"/>	<input style="width: 20px;" type="text"/>	<input style="width: 20px;" type="text"/>	<input style="width: 20px;" type="text"/>
	PUMP OFF	<input style="width: 20px;" type="text"/>	<input style="width: 20px;" type="text"/>	<input style="width: 20px;" type="text"/>	<input style="width: 20px;" type="text"/>	<input style="width: 20px;" type="text"/>
	LOW LEVEL	<input style="width: 20px;" type="text"/>	<input style="width: 20px;" type="text"/>	<input style="width: 20px;" type="text"/>	<input style="width: 20px;" type="text"/>	<input style="width: 20px;" type="text"/>
RUN TIME/CYCLE ADJUSTMENT		<input style="width: 20px;" type="text"/>	<input style="width: 20px;" type="text"/>	<input style="width: 20px;" type="text"/>	<input style="width: 20px;" type="text"/>	<input style="width: 20px;" type="text"/>
NO. OF CYCLES/HOUR ADJUSTMENT		<input style="width: 20px;" type="text"/>	<input style="width: 20px;" type="text"/>	<input style="width: 20px;" type="text"/>	<input style="width: 20px;" type="text"/>	<input style="width: 20px;" type="text"/>
CONFIRM CHANGES		<input type="radio"/>				
<b>LOG-IN AND SETTINGS HISTORY</b>						
<input style="width: 100%; height: 20px;" type="text"/>						
① EFFLUENT WATER LEVEL <RLT>	FT <input style="width: 20px;" type="text"/>	<input style="width: 20px;" type="text"/>	% OF TANK VOLUME	HIGH LEVEL ALARM <RFS2>	<input type="radio"/>	
				LOW LEVEL ALARM <RFS1>	<input type="radio"/>	
② EFFLUENT WATER LEVEL <DLT>	FT <input style="width: 20px;" type="text"/>	<input style="width: 20px;" type="text"/>	% OF TANK VOLUME	HIGH LEVEL ALARM <DFS2>	<input type="radio"/>	
				LOW LEVEL ALARM <DFS1>	<input type="radio"/>	
<b>ALARM CONDITIONS AND HISTORY</b>						
<input style="width: 100%; height: 20px;" type="text"/>						

APPROVED FOR ELECTRICAL WORK ONLY

DESIGN	BY Andy Quan	CHECKED Jaswinder Gill
DETAILS	BY Andy Quan	CHECKED Jaswinder Gill
QUANTITIES	BY	CHECKED

**STATE OF CALIFORNIA**

DEPARTMENT OF TRANSPORTATION

**DIVISION OF ENGINEERING SERVICES**

ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN

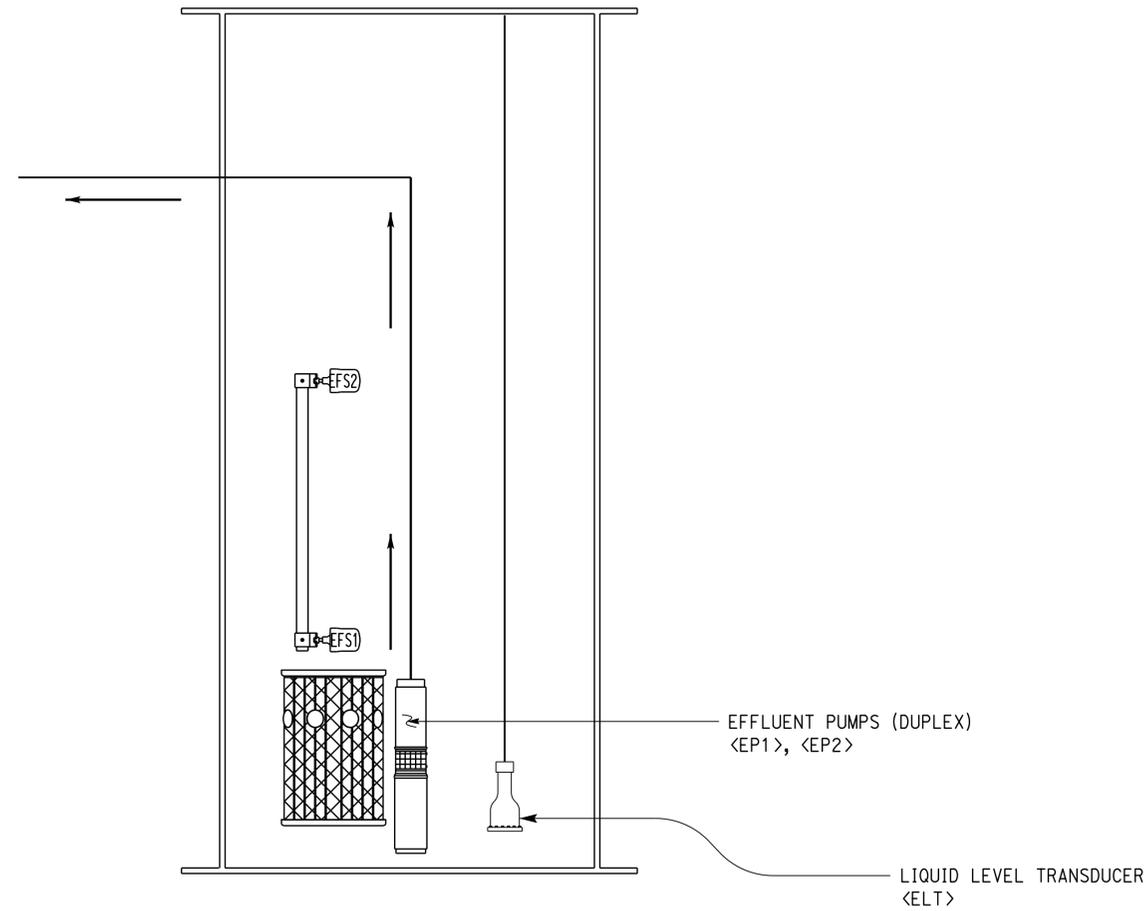
**HONEY LAKE SRRA WASTEWATER SYSTEM IMPROVEMENTS**

RECIRCULATION TANK SCREEN

SHEET **EE4-9** OF

GENERAL NOTES:

- A. Show liquid level inside the tank as BLUE.
- B. Show <EFS1> and <EFS2> to be GREEN when activated and RED when not activated.
- C. Show sewage pipe to be pulsating GREEN when wastewater is flowing.
- D. Alarm must be pulsating RED when new alarm condition is present. The user who acknowledged and/or cleared the alarm must be kept and shown in the alarm history.
- E. Log-in and settings history must show logs of date, time, user name and changes done on the settings. All persons or users who log-in and log-out remotely or locally to the SCADA system must also be shown in log-in and settings history.



**PUMP BASIN**

- STATUS INDICATION
- PUSHBUTTON
- TEXT DISPLAY
- TEXT DISPLAY WITH SCROLL UP/DOWN FUNCTION

\*PASSWORD REQUIRED FOR OPERATION

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 Reviewed by: *Andrew McSorely*  
 ANDREW MCSORELY  
 Approval date: 2-19-15  
 CSFM FILE#01-18-11-0003-000

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
02, 03	Las, Sac	395, 5	49,6, 23.3	105	106

*Jaswinder Gill* 6-19-15  
 REGISTERED ELECTRICAL ENGINEER DATE

6-22-15  
 PLANS APPROVAL DATE

**REGISTERED PROFESSIONAL ENGINEER**  
 Jaswinder Gill  
 No. E 18551  
 Exp. 12-31-16  
 ELEC  
 STATE OF CALIFORNIA

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**STATUS**

		EP1	EP2
PUMP	ON	<input type="radio"/>	<input type="radio"/>
	OFF	<input type="radio"/>	<input type="radio"/>
OPERATION	AUTOMATIC	<input type="radio"/>	<input type="radio"/>
	MANUAL	<input type="radio"/>	<input type="radio"/>
	OFF	<input type="radio"/>	<input type="radio"/>
RUN TIME METER	HOURS	<input type="text"/>	<input type="text"/>
VOLTAGE	V <sub>AC</sub>	<input type="text"/>	<input type="text"/>
CURRENT	I <sub>A</sub>	<input type="text"/>	<input type="text"/>
	I <sub>C</sub>	<input type="text"/>	<input type="text"/>

**\*SETTINGS**

		EP1	EP2
PUMP OPERATION		<input type="radio"/> <input type="radio"/> <input type="radio"/>	<input type="radio"/> <input type="radio"/> <input type="radio"/>
		AUTO ON OFF	AUTO ON OFF
SET POINT - <ELT> HIGH LEVEL (INCH ABOVE FLOOR)		<input type="text"/>	<input type="text"/>
	PUMP ON	<input type="text"/>	<input type="text"/>
	PUMP OFF	<input type="text"/>	<input type="text"/>
	LOW LEVEL	<input type="text"/>	<input type="text"/>

CONFIRM CHANGES

LOG-IN AND SETTINGS HISTORY

EFFLUENT WATER LEVEL <ELT> FT   % OF TANK VOLUME

ALARM  
\*RESET

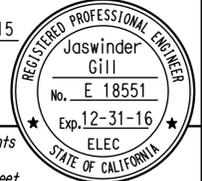
ALARM CONDITIONS AND HISTORY

APPROVED FOR ELECTRICAL WORK ONLY

DESIGN	BY	Andy Quan	CHECKED	Jaswinder Gill	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE No.	HONEY LAKE SRRA WASTEWATER SYSTEM IMPROVEMENTS PUMP BASIN SCREEN	SHEET	44	OF	45	
	DETAILS	BY	Andy Quan	CHECKED			Jaswinder Gill		POST MILE				REVISION DATES (PRELIMINARY STAGE ONLY)
	QUANTITIES	BY		CHECKED					49.6				
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS					0 1 2 3	UNIT: 3597 CONTRACT No.: 02-4E6904 PROJECT NUMBER & PHASE: 02120000331	DISREGARD PRINTS BEARING EARLIER REVISION DATES	SHEET 44 OF 45					

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
02, 03	Las, Sac	395, 5	49.6, 23.3	106	106

Jaswinder S Gill 6-19-15  
REGISTERED ELECTRICAL ENGINEER DATE  
6-22-15  
PLANS APPROVAL DATE



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### POTABLE WATER MAIN FLOW <WFM1>

AVERAGE YEARLY FLOW		AVERAGE MONTHLY FLOW	
Year Gallons 2010 0000		Year 2010 Month Gallons May 0000	
AVERAGE DAILY FLOW		HOURLY FLOW	
Month Year May 2010 Day/Date Gallons Mon/05 0000		Date-Day 1/1/10-Mon Time Gallons 3:00 pm 0000	
PEAK FLOW QUERY			
Year	Month	Date	Gallons
2010	00	00	00,000

### RAW WATER MAIN FLOW <WFM2>

AVERAGE YEARLY FLOW		AVERAGE MONTHLY FLOW	
Year Gallons 2010 0000		Year 2010 Month Gallons May 0000	
AVERAGE DAILY FLOW		HOURLY FLOW	
Month Year May 2010 Day/Date Gallons Mon/05 0000		Date-Day 1/1/10-Mon Time Gallons 3:00 pm 0000	
PEAK FLOW QUERY			
Year	Month	Date	Gallons
2010	00	00	00,000

### TOTAL FLOW (MEN'S)

AVERAGE YEARLY FLOW		AVERAGE MONTHLY FLOW	
Year Gallons 2010 0000		Year 2010 Month Gallons May 0000	
AVERAGE DAILY FLOW		HOURLY FLOW	
Month Year May 2010 Day/Date Gallons Mon/05 0000		Date-Day 1/1/10-Mon Time Gallons 3:00 pm 0000	
PEAK FLOW QUERY			
Year	Month	Date	Gallons
2010	00	00	00,000

### TOTAL FLOW (WOMEN'S)

AVERAGE YEARLY FLOW		AVERAGE MONTHLY FLOW	
Year Gallons 2010 0000		Year 2010 Month Gallons May 0000	
AVERAGE DAILY FLOW		HOURLY FLOW	
Month Year May 2010 Day/Date Gallons Mon/05 0000		Date-Day 1/1/10-Mon Time Gallons 3:00 pm 0000	
PEAK FLOW QUERY			
Year	Month	Date	Gallons
2010	00	00	00,000

CALIFORNIA STATE FIRE MARSHAL  
**APPROVED**  
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ANDREW MCSORELY  
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DESIGN BY Andy Quan	CHECKED Jaswinder Gill	<b>STATE OF CALIFORNIA</b> DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE No.	<b>HONEY LAKE SRRA</b> <b>WASTEWATER SYSTEM IMPROVEMENTS</b> HISTORICAL DATA SCREEN	SHEET	
DETAILS BY Andy Quan	CHECKED Jaswinder Gill			POST MILE		49.6	<b>EE4-11</b>
QUANTITIES BY	CHECKED			UNIT: 3597 CONTRACT No.: 02-4E6904 PROJECT NUMBER & PHASE: 02120000331			
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS		0 1 2 3			SHEET	OF	
TAEWW Imperial - CCSC Rev. 02/13						45	45

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