

LIQUID SOLIDS CONTROL



INSTALLATION GUIDE

MODEL 1022 AUTOMATIC DIVERT SYSTEM

**LIQUID SOLIDS CONTROL, INC.
P.O.Box 259, Upton, MA. USA 01568**

TEL: (508) 529 - 3377

LSC Model 1022

DIVERT SYSTEM

INSTALLATION GUIDE

MARCH 29, 2009

LIQUID SOLIDS CONTROL, INC.

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LIQUID SOLIDS CONTROL *DIVISION OF DIVISION* *OF LIQUID SOLIDS CONTROL, INC.*

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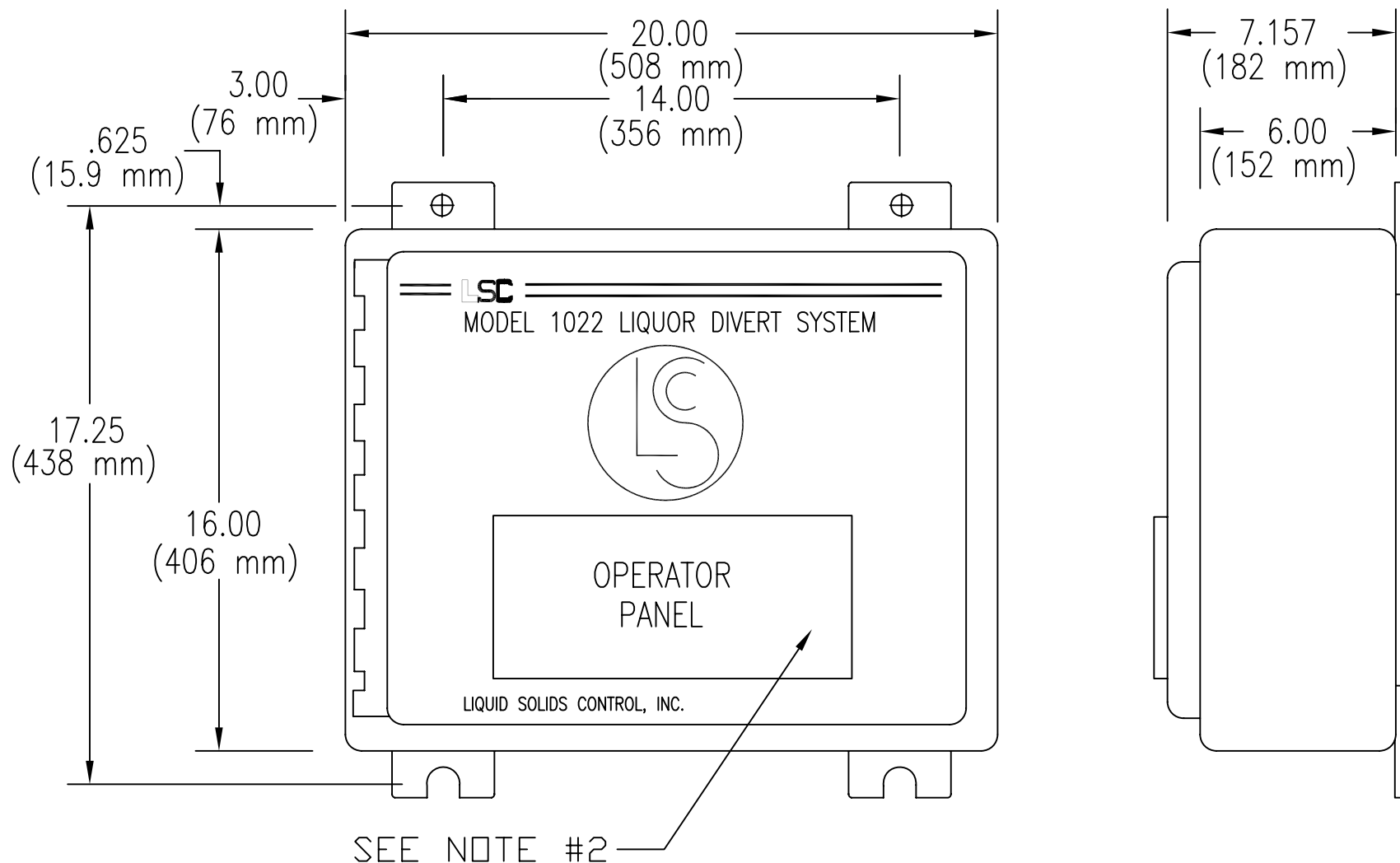
Email: canada@liquidsolidscontrol.com

NOTE:

This is a basic guide to install the model 1022 process refractometer.

If you need any further information please contact us.

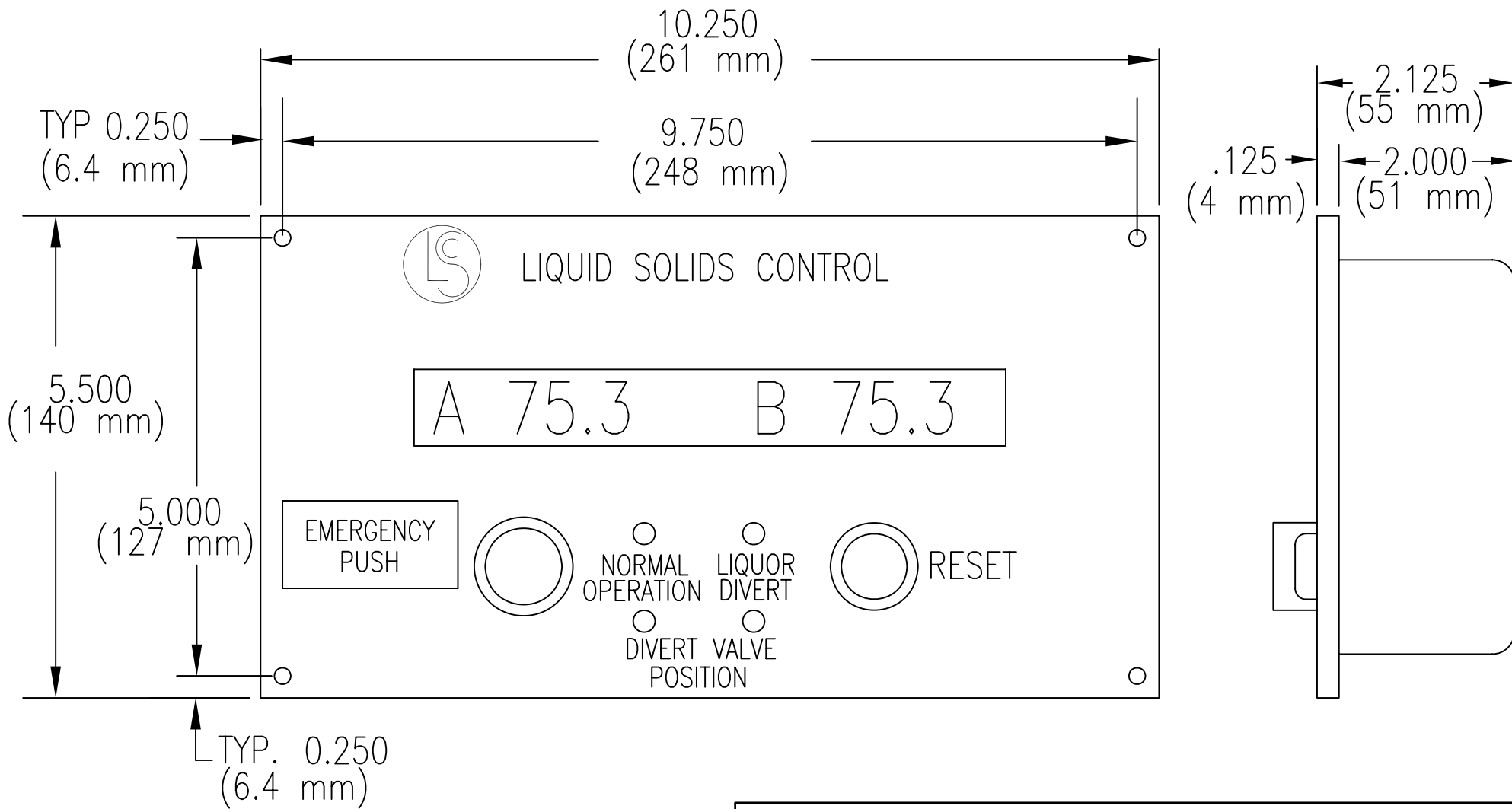
Full instruction manual can be downloaded from liquidsolidscontrol.com



NOTES

1. DIMENSIONS IN PARENTHESIS ARE MILLIMETERS.
2. OPERATOR PANEL MAY BE REMOTELY LOCATED
REF. DWG. #1022501

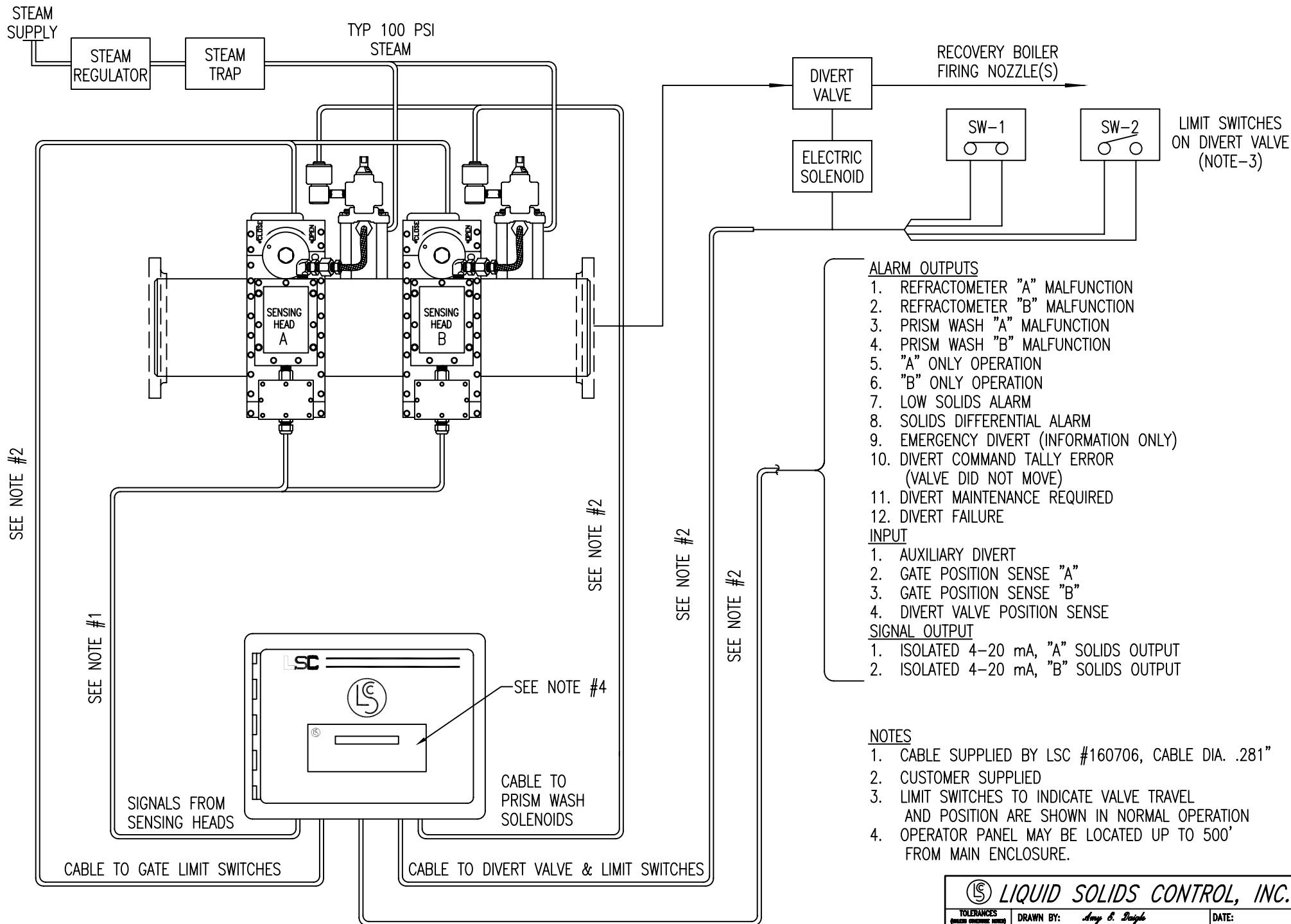
 LIQUID SOLIDS CONTROL, INC.			
TOLERANCES (UNLESS OTHERWISE NOTED)	DRAWN BY: <i>Amy E. Daigle</i>	DATE:	
DECIMAL $\pm .005$	APPROVED BY: <i>Ed Fiore</i>	DATE:	
FRACTIONS $\pm 1/64$	MATERIAL:	DESCRIPTION INSTALLATION DWG. M1022 ENCLOSURE	
ANGULAR $\pm 1^\circ$	SHEET SIZE: <i>A</i>		
SCALE N/A	SHEET # 1 OF 4	REVISION <i>B</i>	PART # 1022500



NOTES

1. DIMENSIONS IN PARETHESIS ARE MILLIMETERS

 LIQUID SOLIDS CONTROL, INC.			
TOLERANCES (UNLESS OTHERWISE NOTED)	DRAWN BY: <i>Amy E. Daigle</i>	DATE: 9-93	
DECIMAL ± .005	APPROVED BY: <i>Ed Fiore</i>	DATE:	
FRACTIONS ± 1/64	MATERIAL:	DESCRIPTION INSTALLATION M1022 OPERATOR PANEL	
ANGULAR ± 1°	SHEET SIZE: A		
SCALE N/A	SHEET # 2 OF 4	REVISION B	PART # 1022501



LSC LIQUID SOLIDS CONTROL, INC.				
TOLERANCES (UNLESS OTHERWISE NOTED)	DRAWN BY: Amy E. Daigle	DATE:		
DECIMAL ± .005	APPROVED BY: Ed. Fiore	DATE:		
FRACTIONS ± 1/64	MATERIAL:	DESCRIPTION		
ANGULAR ± 1°	SHEET SIZE: A	INSTALLATION DWG. M1022 ENCLOSURE		
SCALE N/A	SHEET # 3 OF 4	REVISION E	PART # 1022600	

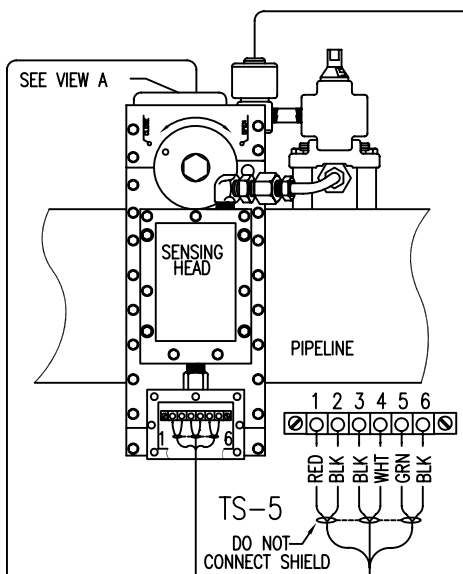
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SEE VIEW D
VIEW B

V D

NOTE #2

NOTE #1. LSC# 160706



NOTE #2

SEE —
TARIF #4

NOTE #2

TABLE #3

SEE VIEW D
VIEW B

V D

NOTE #2

NOTE #1. LSC# 160706

ALARMS 1, TB-6 TB-11, ALARMS 2

TERM NO.		TERM NO.	
1	A-ONLY	1	B-ONLY
2	OPERATION	2	OPERATION
3	A REFRACT	3	B REFRACT
4	MALFUNC	4	MALFUNC
5	A PRISM WASH	5	B PRISM WASH
6	FAIL	6	FAIL
7	LOW SOLIDS	7	SOLIDS
8		8	DIFFERENTIAL
9		9	
10	DIVERT	10	DIVERT FAIL
11	SYSTEM	11	SYSTEM
12	MAINTENANCE	12	MALFUNCTION

NOTE- IN OPERATION, NO ALARM CONDITION,
RELAY COILS ARE ENERGIZED, PROVIDING AN OPEN
CONTACT. CONTACTS WILL CLOSE TO ALARM.

TB-3		TB-12	
	REFRACT. A		REFRACT. B
1	+ 4-20mA	1	+ 4-20mA
2	-	2	-

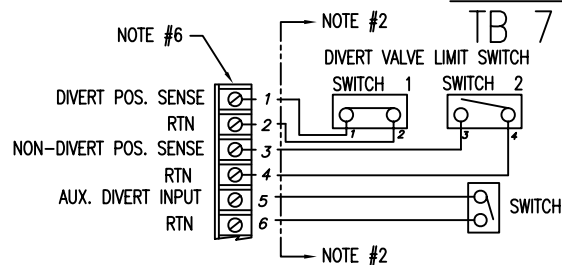
POWER REQUIREMENTS		
TB-2	REFRACTOMETER "A"	20 WATTS
TB-16	REFRACTOMETER "B"	20 WATTS
TB-10	DIVERT CONTROLLER	45 WATTS

TYPICAL WIRING A SIDE/B SIDE

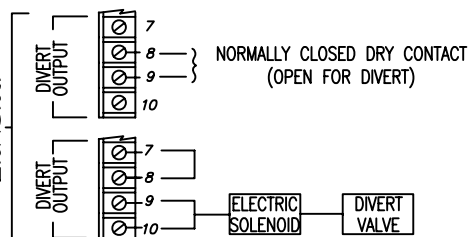
A SIDE		B SIDE	
TB-1	TYP	TB-15	
TB-4	TYP	TB-13	
TB-5	TYP	TB-14	

PRISM WASH SOLENIOD
GATE LIMIT SWITCH
SENSING HEAD CABLE

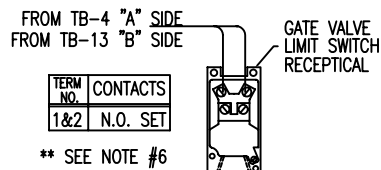
VIEW B
TB 7



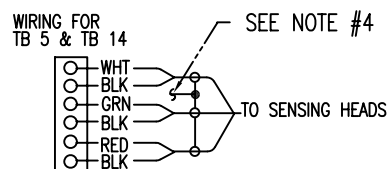
ALTERNATE WIRING
METHODS FOR
TERMINALS 7-10
CHOOSE APPROPRIATE
METHOD FOR YOUR
SPECIFIC INSTALLATION



VIEW A

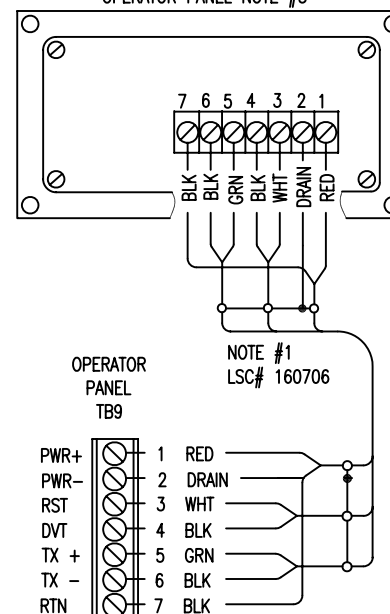


VIEW C



VIEW D

OPERATOR PANEL NOTE #3



1. SUPPLIED BY LSC
2. CUSTOMER SUPPLIED
3. MAY BE LOCATED UP 500' AWAY FROM ENCLOSURE, WIRING IS NOT NECESSARY WHEN LOCATED ON ENCLOSURE DOOR.
4. CONNECT SHIELD TO GROUND STUD IN 1022 CABINET
5. SEE DWG. #1022604 FOR PRINTER INTERFACE WIRING (OPTIONAL)
6. DRY CONTACT SWITCHES. DO NOT SUPPLY ANY EXTERNAL VOLTAGES TO TB4, TB13 & TB7 - TERMINALS 1,2,3,4,5 & 6

 LIQUID SOLIDS CONTROL, INC.	
TOLL FREE 800-441-4444 REGD. & 400	DRAWN BY: <i>Aug & Sample</i> APPROVED BY: <i>Ed. Fure</i> DATE:
FINCHES ± 1/64 ANGLE ± 1°	SERIAL: DESCRIPTION WIRING DIAGRAM M1022 DIVERT SYSTEM PART # 1022601
SCALE N/A	SHEET SIZE: B 1 OF 4 N