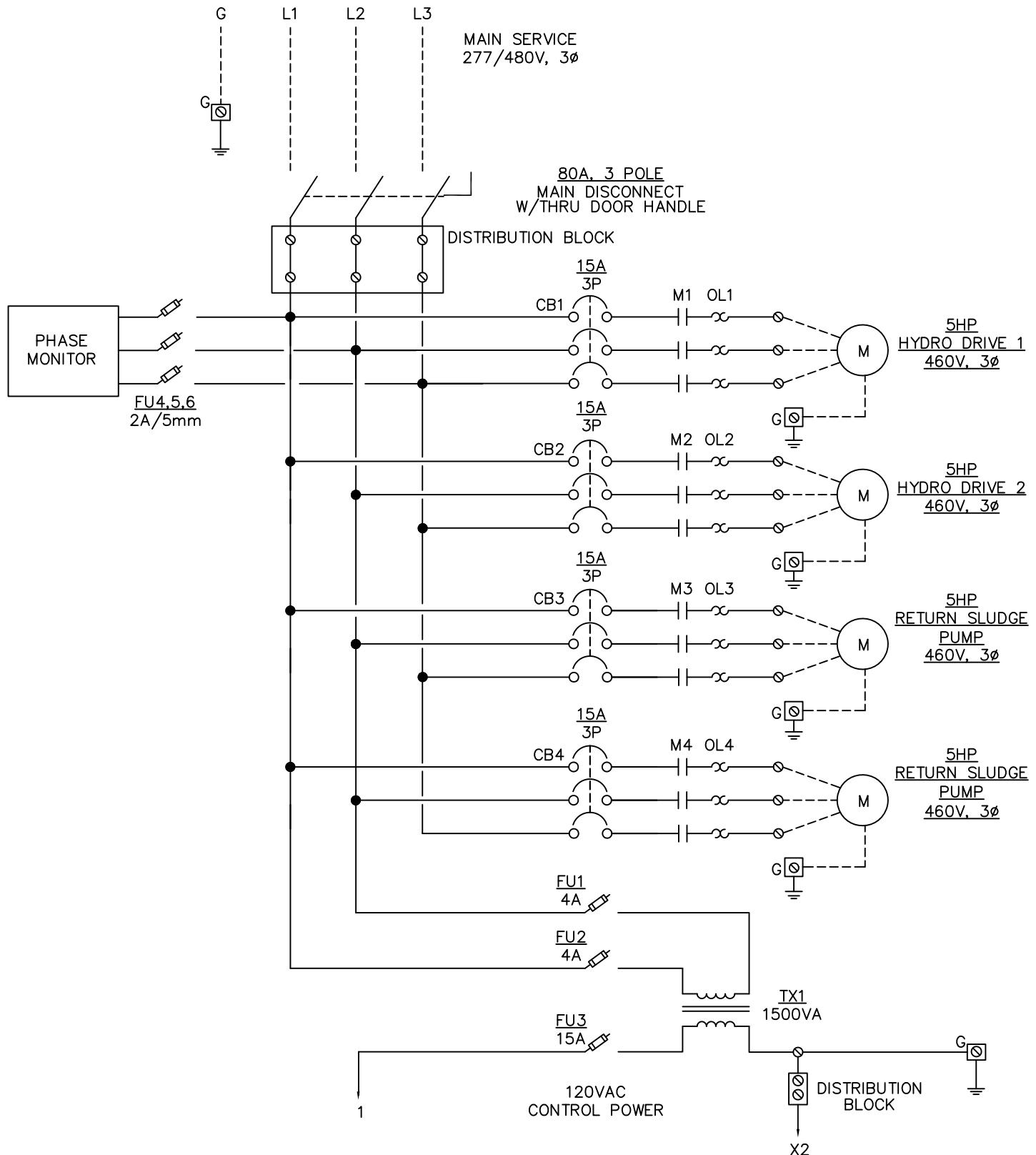


G-H Systems

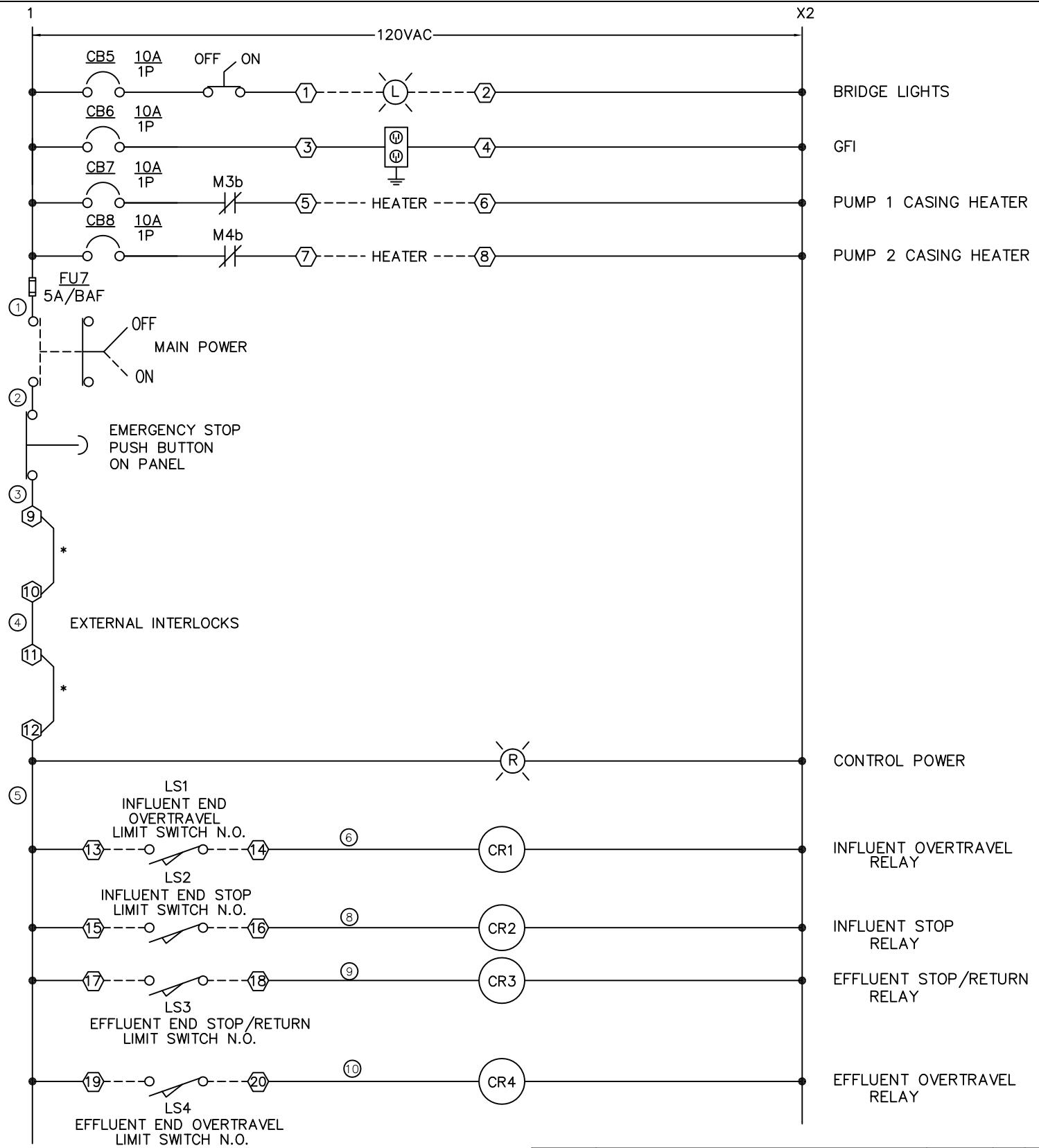
SYSTEMS
FOR WATER AND
WASTEWATER TREATMENT

CORPUS CHRISTI
CONTROL PANEL

*G-H SYSTEMS, INC
2924 Brakely Drive, Unit B-4
Baton Rouge, LA. 70816
(225) 293-5288 Fax (225) 291-1482*

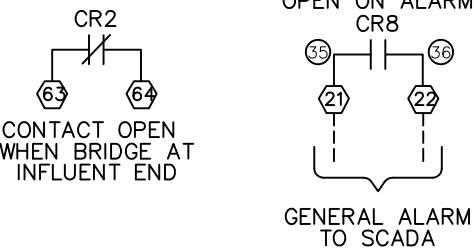
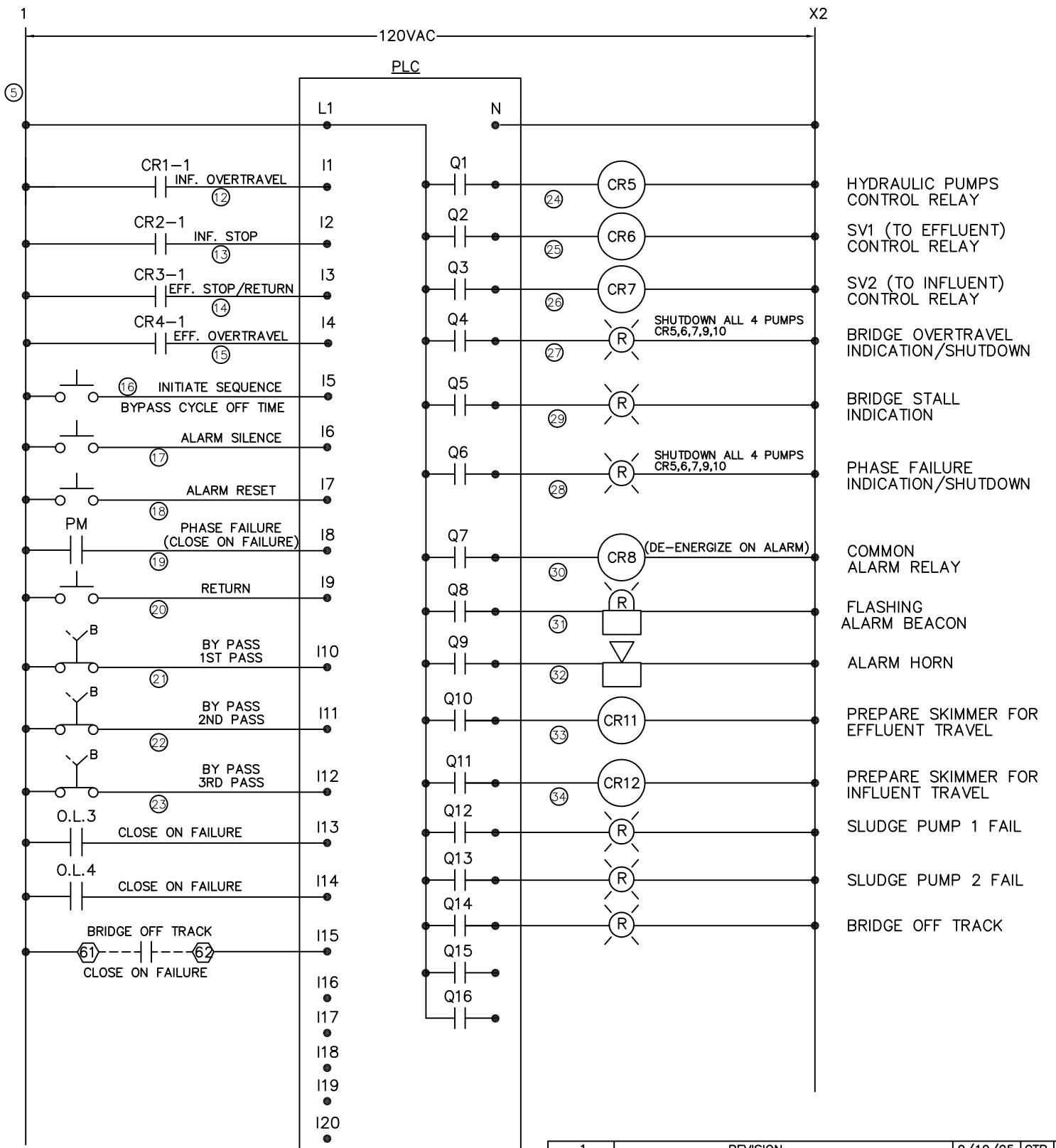


REV. NO.	DESCRIPTION	DATE	DRN	CHK
G-H Systems SYSTEMS FOR WATER AND WASTEWATER TREATMENT				
	2924 Brakely Drive, Unit B-4 TELEPHONE: (225) 293-5288	Baton Rouge, LA 70816 - FAX: (225) 291-1482		
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DRAWN BY: C.RACHAL	DATE: 9/18/03	SHT 1	REV.	
APP'D. BY:	DATE:			
SCALE: N.T.S.	JOB NO:			
FILE:	DWG. NO:			

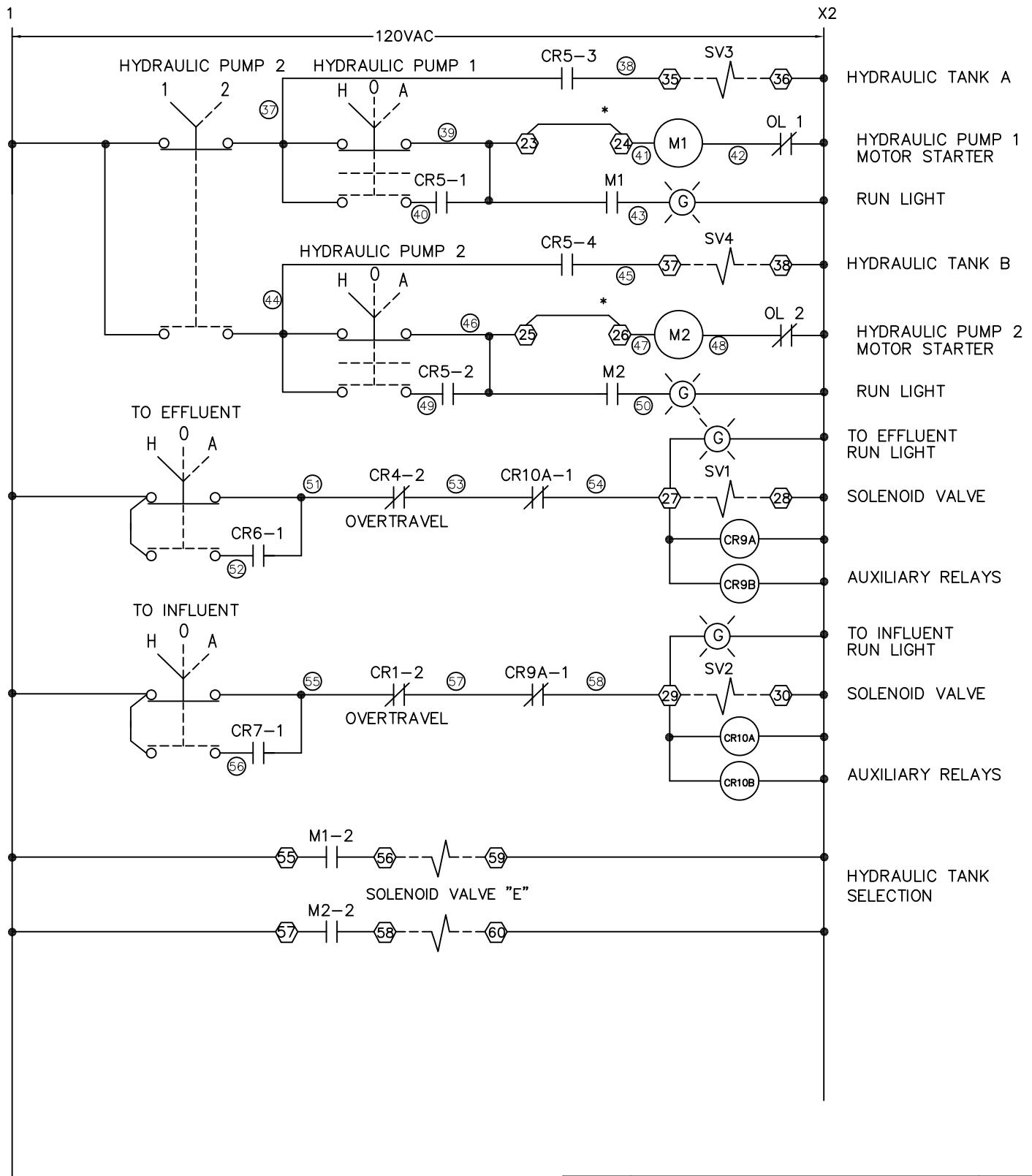


REV. NO.	DESCRIPTION	DATE	DRN	CHK
G-H Systems SYSTEMS FOR WATER AND WASTEWATER TREATMENT				
	2924 Brakely Drive, Unit B-4 TELEPHONE: (225) 293-5288	Baton Rouge, LA 70816 - FAX: (225) 291-1482		
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DRAWN BY: C.RACHAL	DATE: 9/18/03	SHT 2	REV.	
APP'D. BY:	DATE:			
SCALE: N.T.S.	JOB NO:			
FILE:	DWG. NO:			

* REMOVE JUMPERS AND INSTALL LOCKOUT DEVICES IF REQUIRED

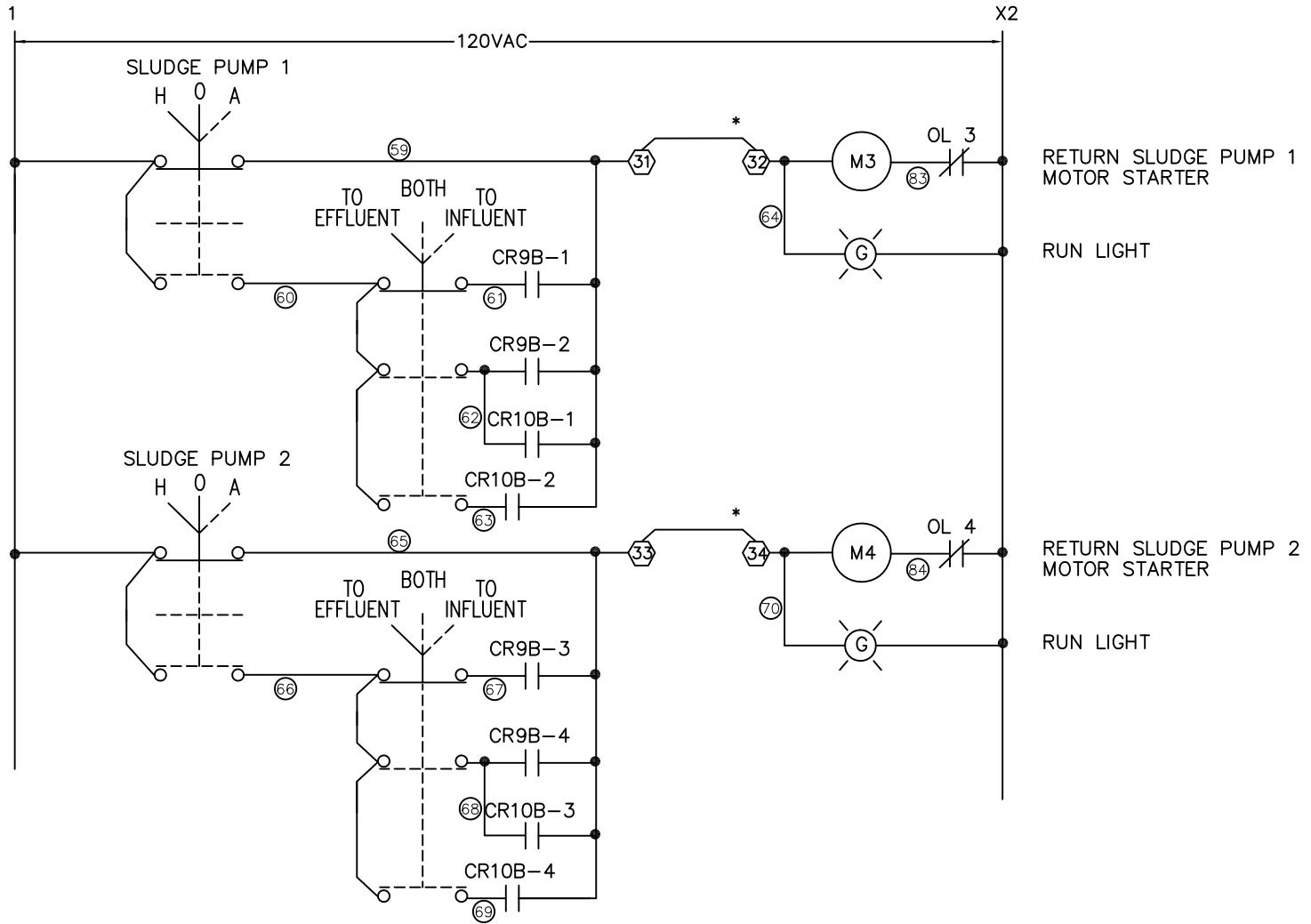


REV. NO.	REVISION DESCRIPTION	9/19/05	CTR	DATE	DRN	CHK
G-H Systems SYSTEMS FOR WATER AND WASTEWATER TREATMENT						
	2924 Brakely Drive, Unit B-4 TELEPHONE: (225) 293-5288	Baton Rouge, LA 70816 - FAX: (225) 291-1482				
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DRAWN BY: C.RACHAL	DATE: 9/18/03	SHT 3	REV.			
APP'D. BY:	DATE:					
SCALE: N.T.S.	JOB NO:					
FILE:	DWG. NO:					



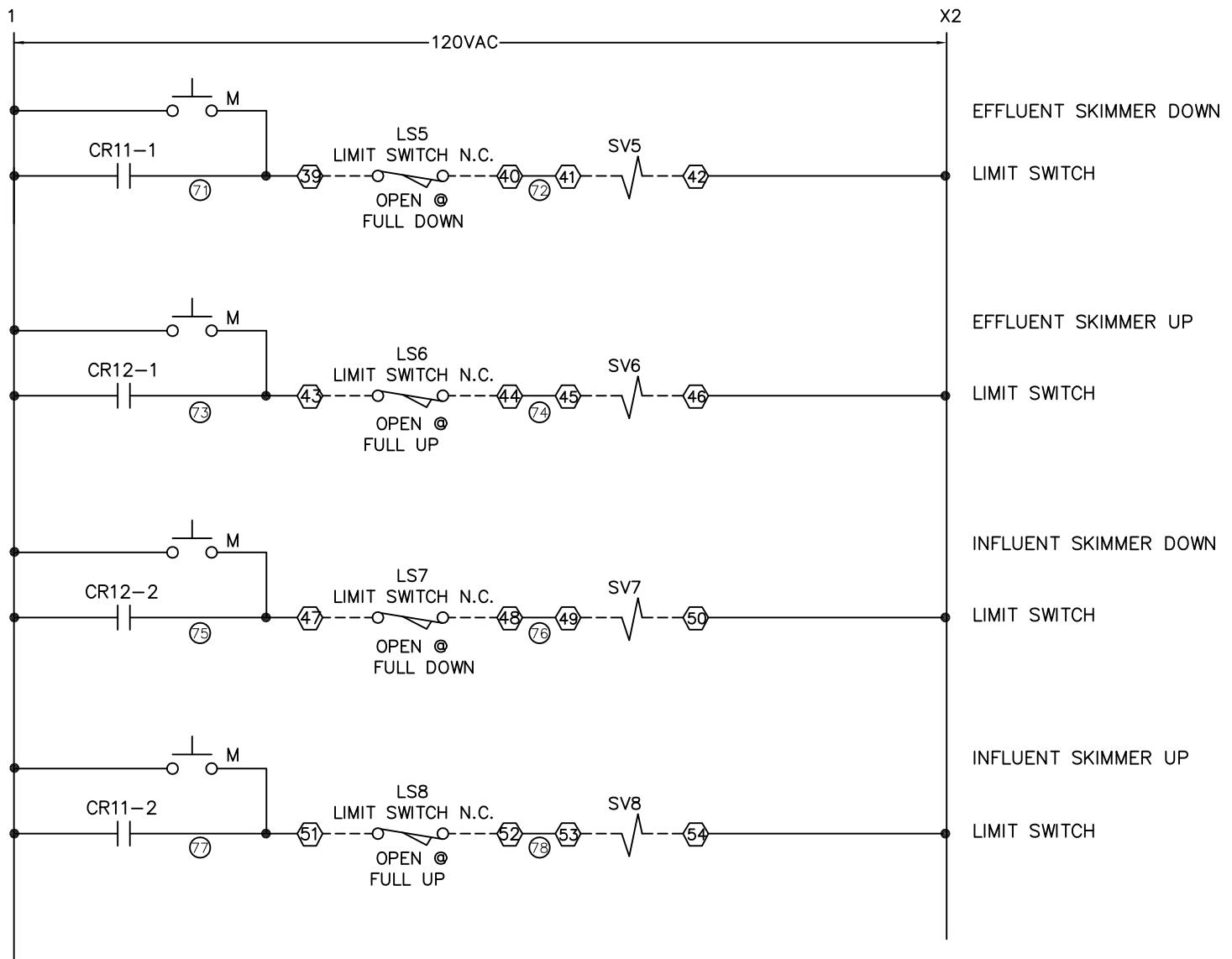
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REV. NO.	DESCRIPTION	DATE	DRN	CHK
G-H Systems SYSTEMS FOR WATER AND WASTEWATER TREATMENT				
	2924 Brakely Drive, Unit B-4 TELEPHONE: (225) 293-5288	Baton Rouge, LA 70816 - FAX: (225) 291-1482		
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DRAWN BY: C.RACHAL	DATE: 9/18/03	SHT 4	REV.	
APP'D. BY:	DATE:			
SCALE: N.T.S.	JOB NO:			
FILE:	DWG. NO:			



* REMOVE JUMPERS AND INSTALL LOCKOUT DEVICES IF REQUIRED

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G-H Systems SYSTEMS FOR WATER AND WASTEWATER TREATMENT				
	2924 Brakely Drive, Unit B-4 TELEPHONE: (225) 293-5288	Baton Rouge, LA 70816 - FAX: (225) 291-1482		
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DRAWN BY: C.RACHAL	DATE: 9/18/03	SHT 5	REV.	
APP'D. BY:	DATE:			
SCALE: N.T.S.	JOB NO:			
FILE:	DWG. NO:			



REV. NO.	DESCRIPTION	DATE	DRN	CHK
G-H Systems SYSTEMS FOR WATER AND WASTEWATER TREATMENT				
	2924 Brakely Drive, Unit B-4 TELEPHONE: (225) 293-5288	Baton Rouge, LA 70816 — FAX: (225) 291-1482		
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DRAWN BY: C.RACHAL	DATE: 9/18/03	SHT 6	REV.	
APP'D. BY:	DATE:			
SCALE: N.T.S.	JOB NO:			
FILE:	DWG. NO:			

* REMOVE JUMPERS AND INSTALL LOCKOUT DEVICES IF REQUIRED

PLC SETTINGSFACTORY SETTINGS
(ALL SETTINGS ARE ADJUSTABLE)

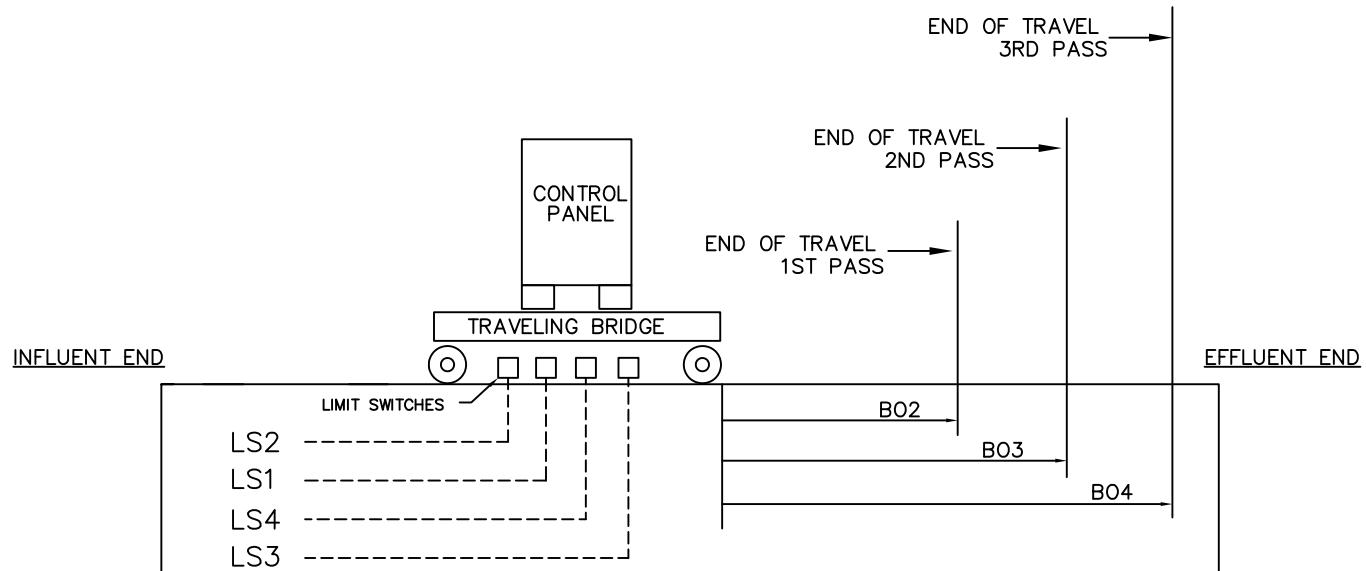
- B01 – TIME BETWEEN CYCLES (CYCLE OFF TIME)
 B02 – TIME OF 1ST END OF TRAVEL DISTANCE
 B03 – TIME OF 2ND END OF TRAVEL DISTANCE
 B04 – TIME OF 3RD END OF TRAVEL DISTANCE
 * B05 – TIME TO DEFINE BRIDGE STALL AFTER CALL TO RUN
 ** B06 – TIME TO DEFINE BRIDGE STALL AFTER STARTING
 B07 – TIME DELAY BEFORE RETURNING TO INFLUENT END

1 MIN
3 MIN
6 MIN
8 MIN
1 MIN
60 MIN
1 MIN

00: 01h
03: 00m
06: 00m
08: 00m
01: 00m
60: 00m
01: 00m

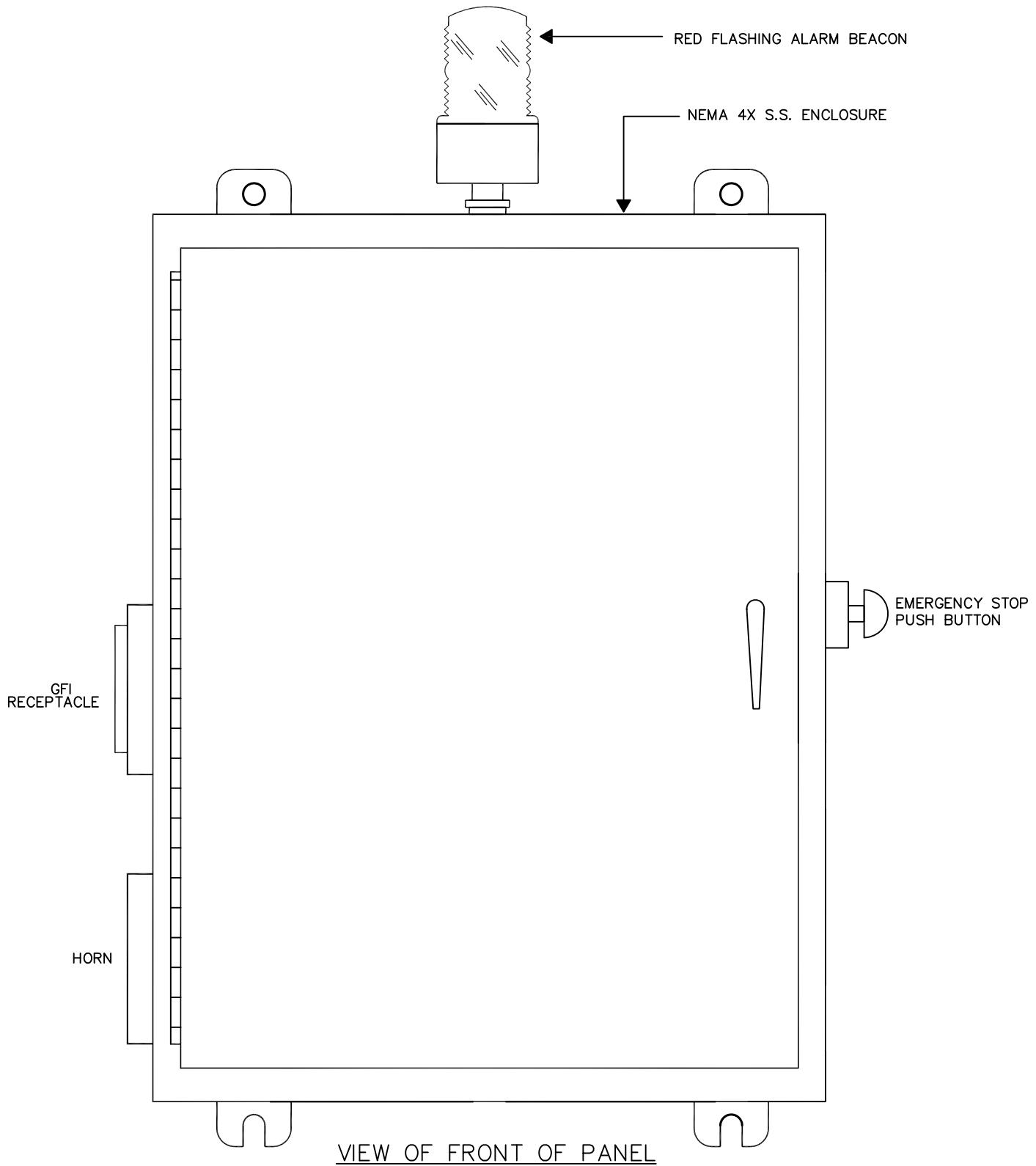
* IF BRIDGE DOES NOT MOVE FROM STOP POSITION
 AT INFLUENT END IN 1 MIN. AFTER CALL TO RUN
 THE BRIDGE STALL ALARM AND SYSTEM SHUTDOWN OCCURS.

** IF BRIDGE DOES NOT RETURN TO STOP POSITION
 AT INFLUENT END IN 60 MIN. AFTER STARTING,
 THE BRIDGE STALL ALARM AND SYSTEM SHUTDOWN OCCURS.

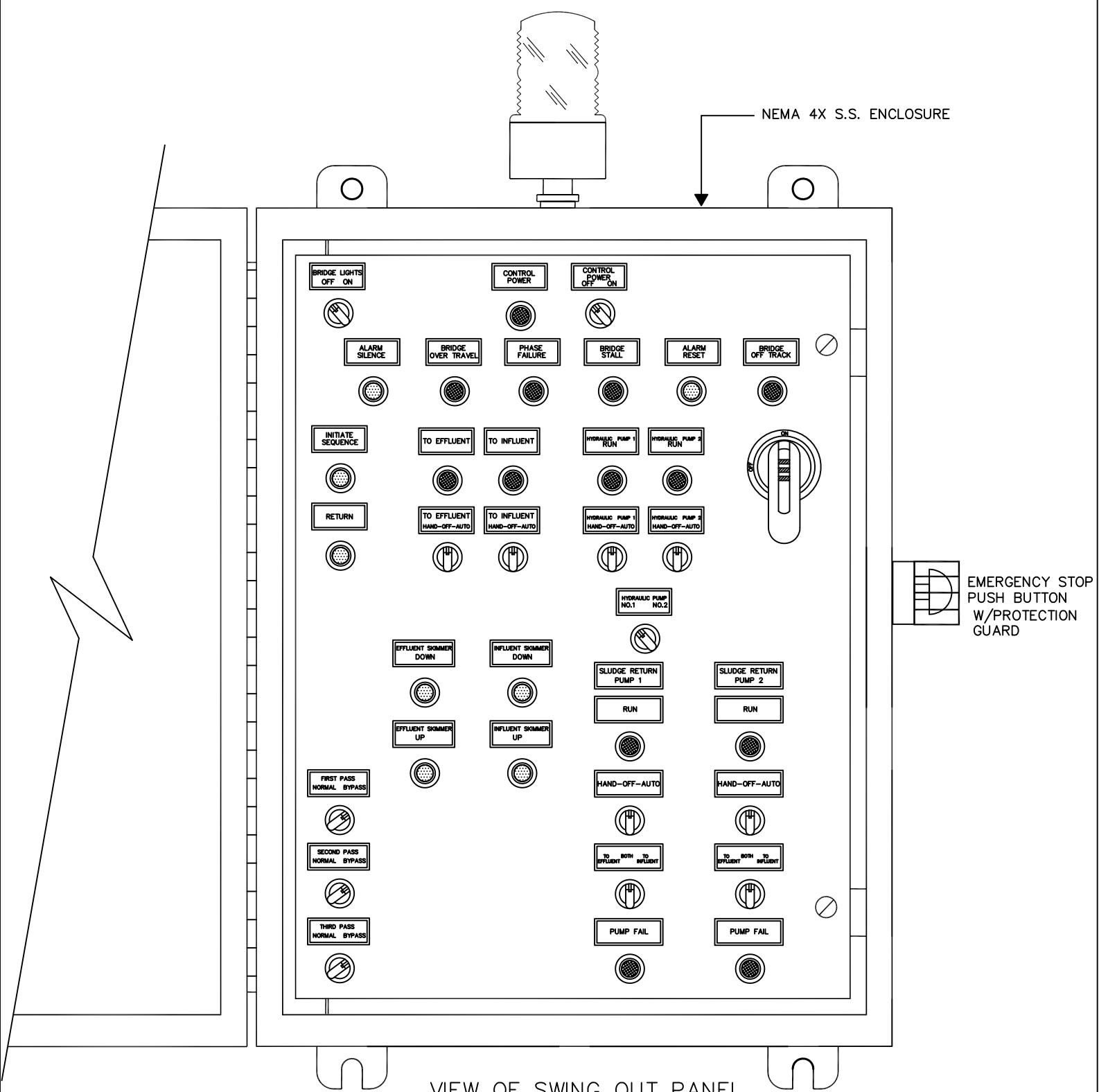


- LS1 – LIMIT SWITCH USED TO STOP BRIDGE, SHUTDOWN SYSTEM, AND SOUND ALARM IF BRIDGE OVERTRAVEL OCCURS ON INFLUENT END.
 LS2 – LIMIT SWITCH USED TO STOP BRIDGE AND START OFF PERIOD TIMER
 LS3 – LIMIT SWITCH USED TO STOP AND RETURN BRIDGE ON FULL RUN
 LS4 – LIMIT SWITCH USED TO STOP BRIDGE SHUTDOWN SYSTEM AND SOUND ALARM IF BRIDGE OVERTRAVEL OCCURS ON EFFLUENT END.

1 REV. NO.	REVISION DESCRIPTION	9/19/05 DATE	CTR DRN	CHK
G-H Systems SYSTEMS FOR WATER AND WASTEWATER TREATMENT				
2924 Brakely Drive, Unit B-4 Baton Rouge, LA 70816 TELEPHONE: (225) 293-5288 FAX: (225) 291-1482				
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DRAWN BY: C.RACHAL DATE: 9/18/03 SHT 7 REV. 1 APP'D. BY: DATE: SCALE: N.T.S. JOB NO: FILE: DWG. NO:				



REV. NO.	DESCRIPTION	DATE	DRN	CHK
<i>G-H Systems</i> SYSTEMS FOR WATER AND WASTEWATER TREATMENT				
	2924 Brakely Drive, Unit B-4 TELEPHONE: (225) 293-5288	Baton Rouge, LA 70816 — FAX: (225) 291-1482		
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DRAWN BY: C.RACHAL	DATE: 9/18/03	SHT 8	REV.	
APPV'D. BY:	DATE:			
SCALE: N.T.S.	JOB NO:			
FILE:	DWG. NO:			



VIEW OF SWING OUT PANEL

REV. NO.	DESCRIPTION	DATE	DRN	CHK
G-H Systems SYSTEMS FOR WATER AND WASTEWATER TREATMENT				
	2924 Brakely Drive, Unit B-4 TELEPHONE: (225) 293-5288	Baton Rouge, LA 70816 — FAX: (225) 291-1482		
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DRAWN BY: C.RACHAL	DATE: 9/18/03	SHT 9	REV.	
APP'D. BY:	DATE:			
SCALE: N.T.S.	JOB NO:			
FILE:	DWG. NO:			

BILL OF MATERIAL

ITEM	QTY	MANUFACTURER	PART NO.	DESCRIPTION
1	1	EBE	S483612N4X	ENCLOSURE
1a	1	EBE	4836P	BACKPLATE
1b	1	EBE	A4836SP	DEAD FRONT
2	1	ABB	OT63E3	DISCONNECT SWITCH
3	4	ABB	A16-30-10-84	MS1-4
4	4	ABB	TA25DU8.5	OL1-4 (6.0-8.5A)
5	1	BUSSMAN	16371-3	DISTRIBUTION BLOCK
6	1	SSAC	PLMU-11	PHASE MONITOR
7	1	SQUARE D	9070T1500D1	TRANSFORMER
8	2	SQUARE D	9070TFSC-2	FINGER PROTECTION COVER
9	4	SQUARE D	QOU110	CB5-8
10	3	A-B	800H-HR2A	2 POSITION SWITCH
11	1	A-B	800H-FRXTQ10RA1	EMERGENCY PUSH BUTTON
12	8	A-B	800H-AR2A	PUSH BUTTON
13	6	A-B	800H-QR10R	RED PILOT LIGHT
14	6	A-B	800H-QR10G	GREEN PILOT LIGHT
15	2	A-B	800H-JR2KD7	3 POSITION SWITCH
16	6	A-B	800H-JR2A	HOA SWITCH
17	1	A-B	800T-N209RE1	E-STOP BUTTON
18	15	IDEC	RU4S 110A	CONTROL RELAYS
19	1	TOMAR	490S-120R	STROBE
20	1	EDWARDS	870P-N5	HORN
21	4	ABB	S1NO15TL	CB1,2,3,4
22	1	SIEMENS	230RC	PLC
23	3	SIEMENS	DM8230R	EXPANSION MODULE
24	1	ABB	OHB65L5	HANDLE
25	1	ABB	OXP5X265	SHAFT

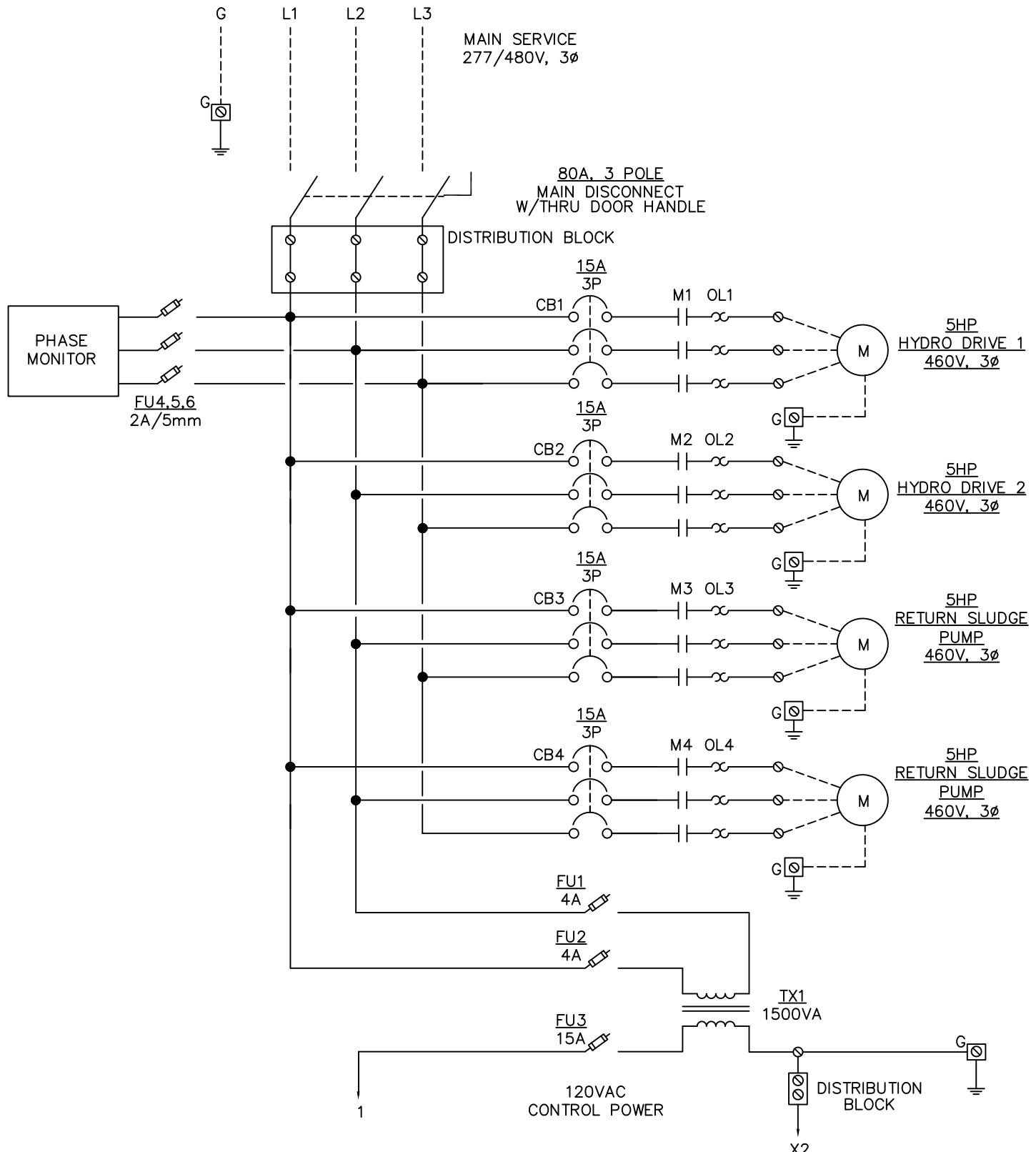
1	REVISION REV. NO.	9/19/05 CTR DATE DRN CHK
 G-H Systems SYSTEMS FOR WATER AND WASTEWATER TREATMENT		
2924 Brakely Drive, Unit B-4 Baton Rouge, LA 70816 TELEPHONE: (225) 293-5288 FAX: (225) 291-1482		
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<small>DRAWN BY: C.RACHAL DATE: 9/18/03 SHT 10 REV. APPV'D. BY: DATE: SCALE: N.T.S. JOB NO: FILE: DWG. NO:</small>		
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G-H Systems

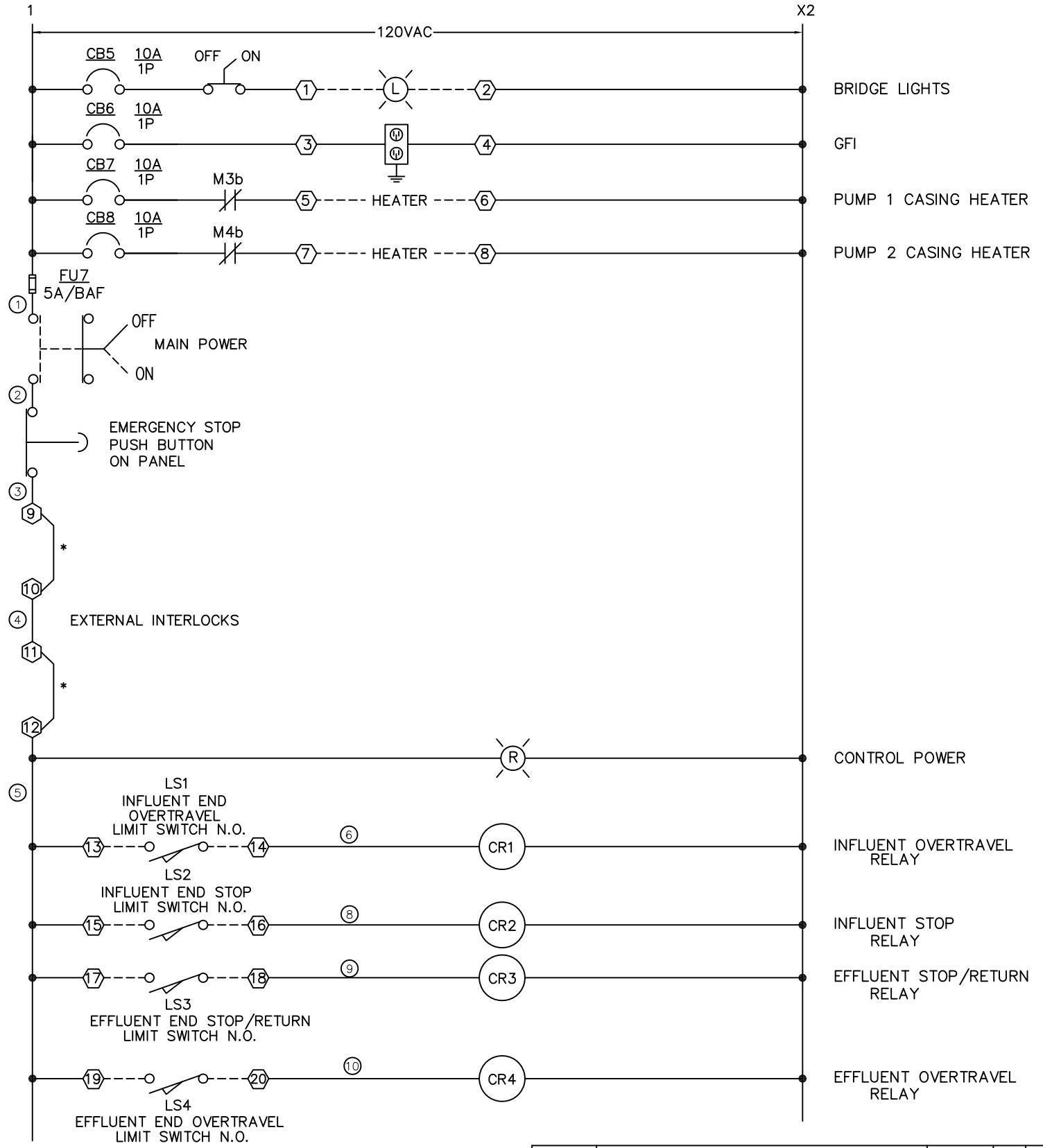
SYSTEMS
FOR WATER AND
WASTEWATER TREATMENT

CORPUS CHRISTI
CONTROL PANEL

*G-H SYSTEMS, INC
2924 Brakely Drive, Unit B-4
Baton Rouge, LA. 70816
(225) 293-5288 Fax (225) 291-1482*

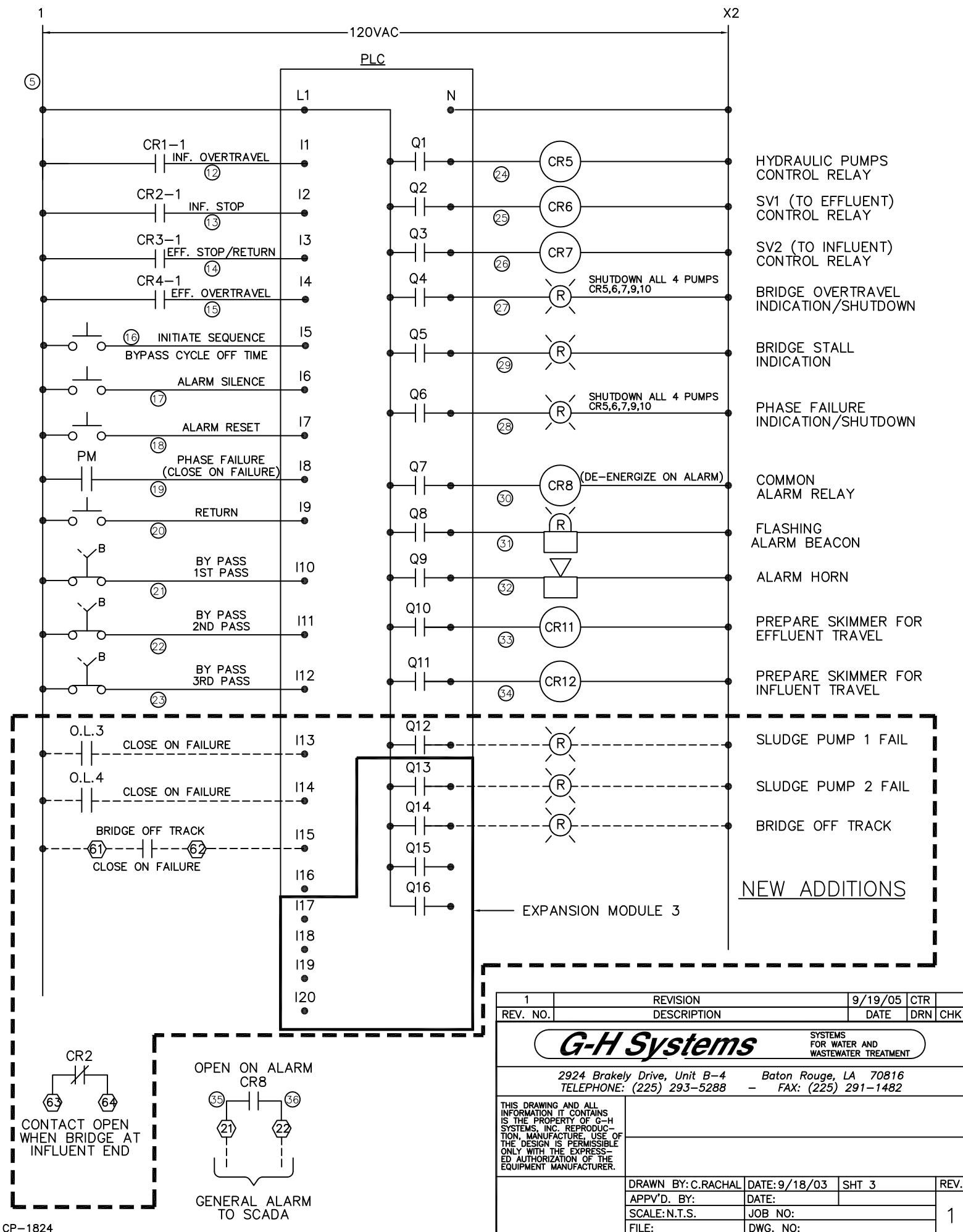


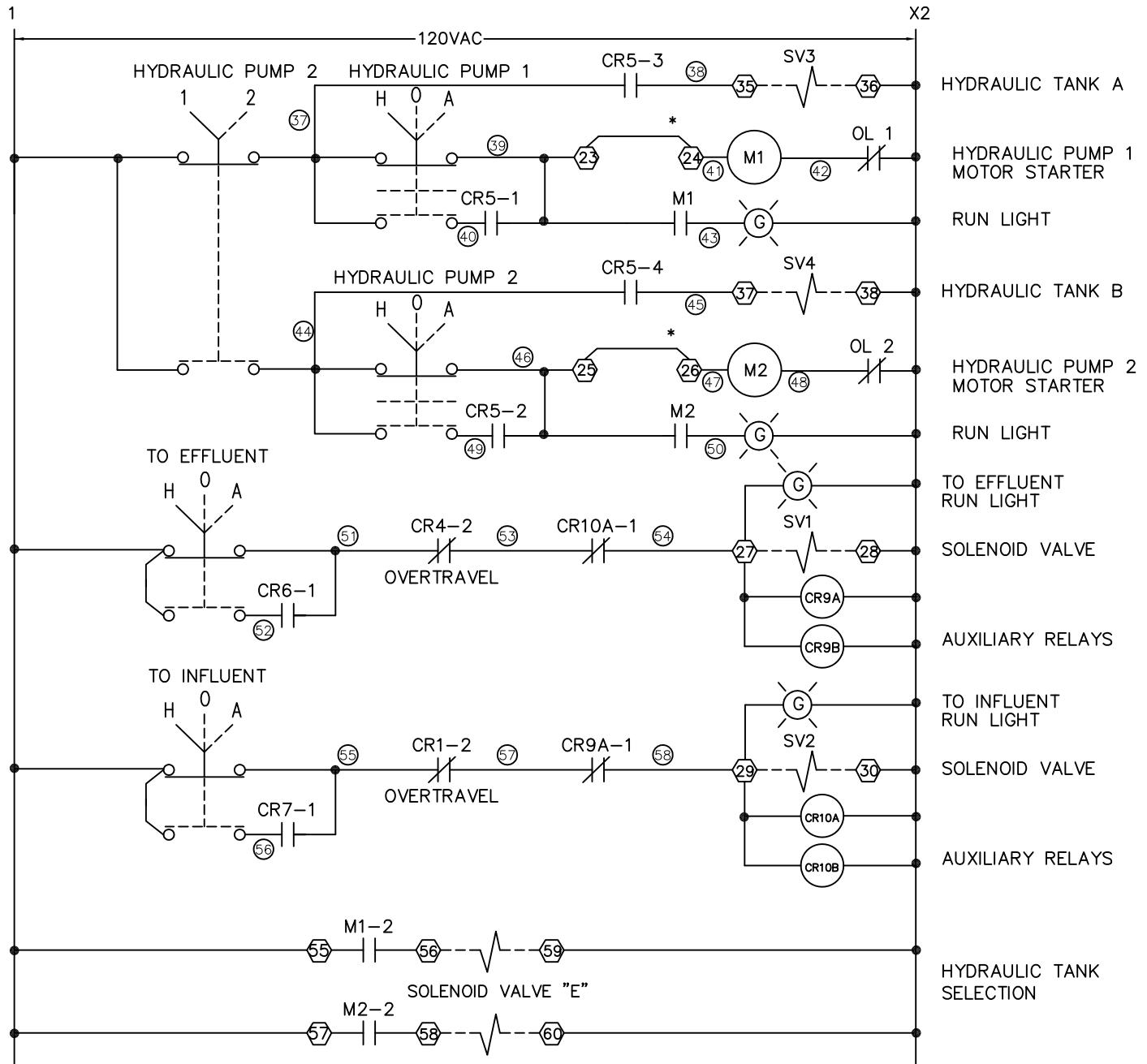
REV. NO.	DESCRIPTION	DATE	DRN	CHK
G-H Systems SYSTEMS FOR WATER AND WASTEWATER TREATMENT				
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DRAWN BY: C.RACHAL	DATE: 9/18/03	SHT 1	REV.	
APP'D. BY:	DATE:			
SCALE: N.T.S.	JOB NO:			
FILE:	DWG. NO:			



REV. NO.	DESCRIPTION	DATE	DRN	CHK
G-H Systems SYSTEMS FOR WATER AND WASTEWATER TREATMENT				
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DRAWN BY: C.RACHAL	DATE: 9/18/03	SHT 2	REV.	
APP'D. BY:	DATE:			
SCALE: N.T.S.	JOB NO:			
FILE:	DWG. NO:			

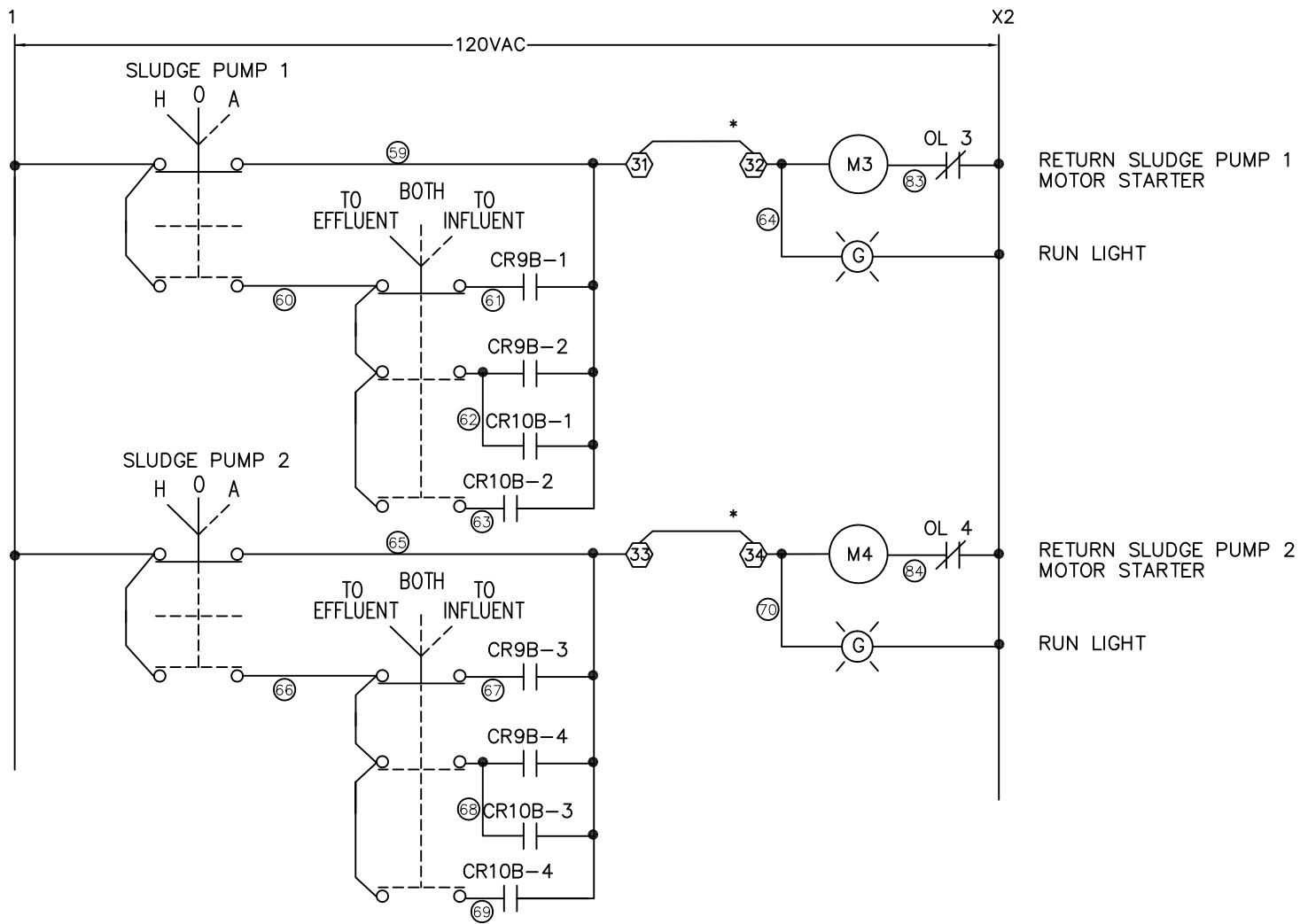
* REMOVE JUMPERS AND INSTALL LOCKOUT DEVICES IF REQUIRED





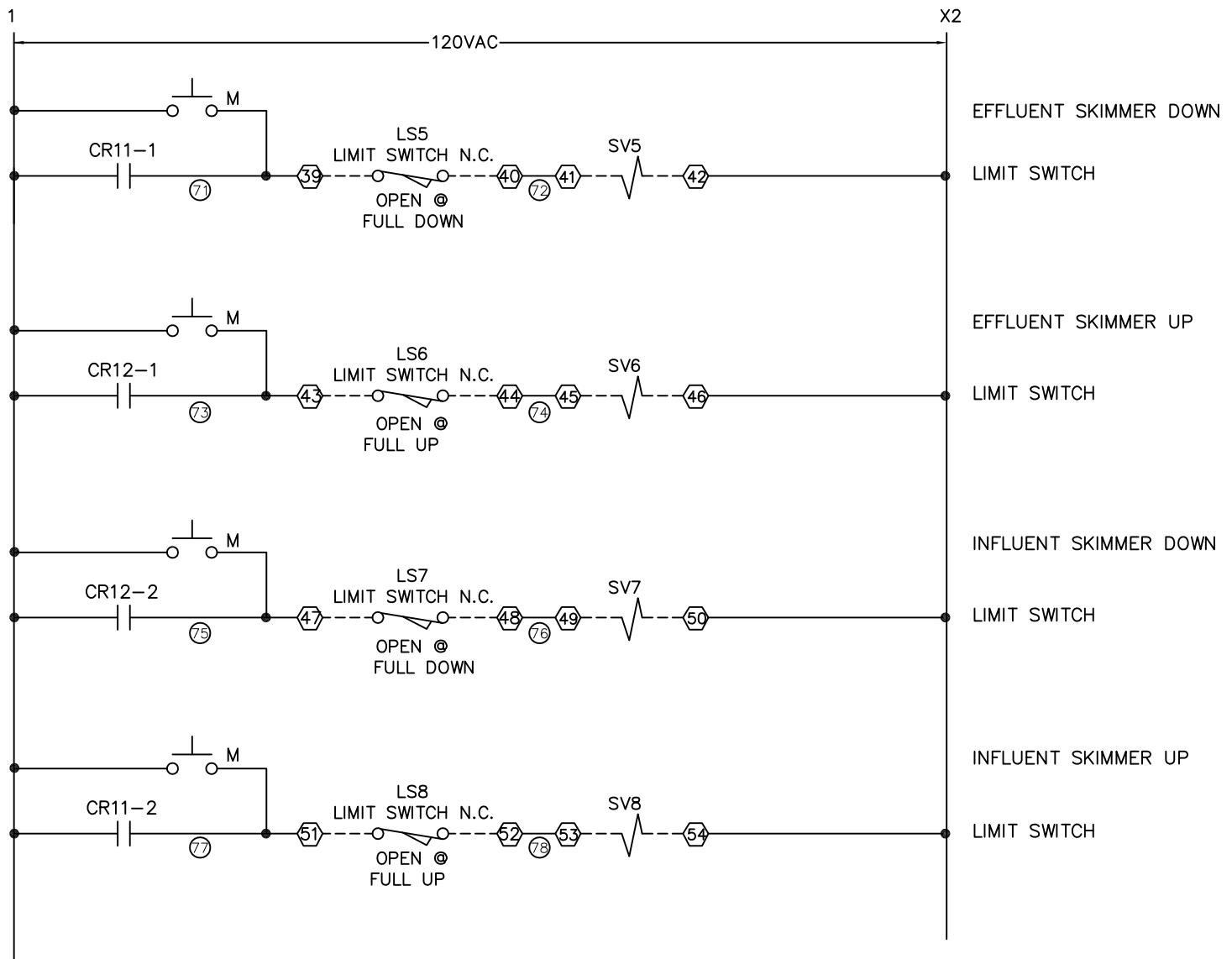
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APP'D. BY:	DATE:			
SCALE: N.T.S.	JOB NO:			
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REV. NO.	DESCRIPTION	DATE	DRN	CHK
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DRAWN BY: C.RACHAL	DATE: 9/18/03	SHT 6	REV.	
APP'D. BY:	DATE:			
SCALE: N.T.S.	JOB NO:			
FILE:	DWG. NO:			

* REMOVE JUMPERS AND INSTALL LOCKOUT DEVICES IF REQUIRED

PLC SETTINGSFACTORY SETTINGS
(ALL SETTINGS ARE ADJUSTABLE)

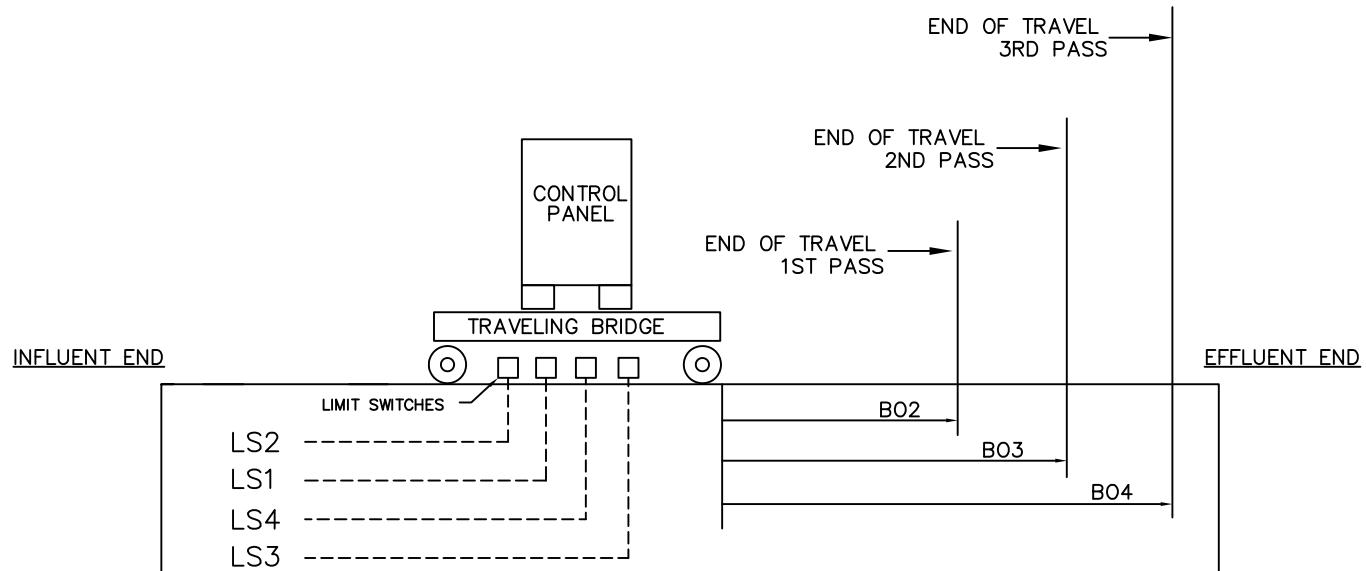
- B01 – TIME BETWEEN CYCLES (CYCLE OFF TIME)
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 B03 – TIME OF 2ND END OF TRAVEL DISTANCE
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 * B05 – TIME TO DEFINE BRIDGE STALL AFTER CALL TO RUN
 ** B06 – TIME TO DEFINE BRIDGE STALL AFTER STARTING
 B07 – TIME DELAY BEFORE RETURNING TO INFLUENT END

1 MIN
3 MIN
6 MIN
8 MIN
1 MIN
60 MIN
1 MIN

00: 01h
03: 00m
06: 00m
08: 00m
01: 00m
60: 00m
01: 00m

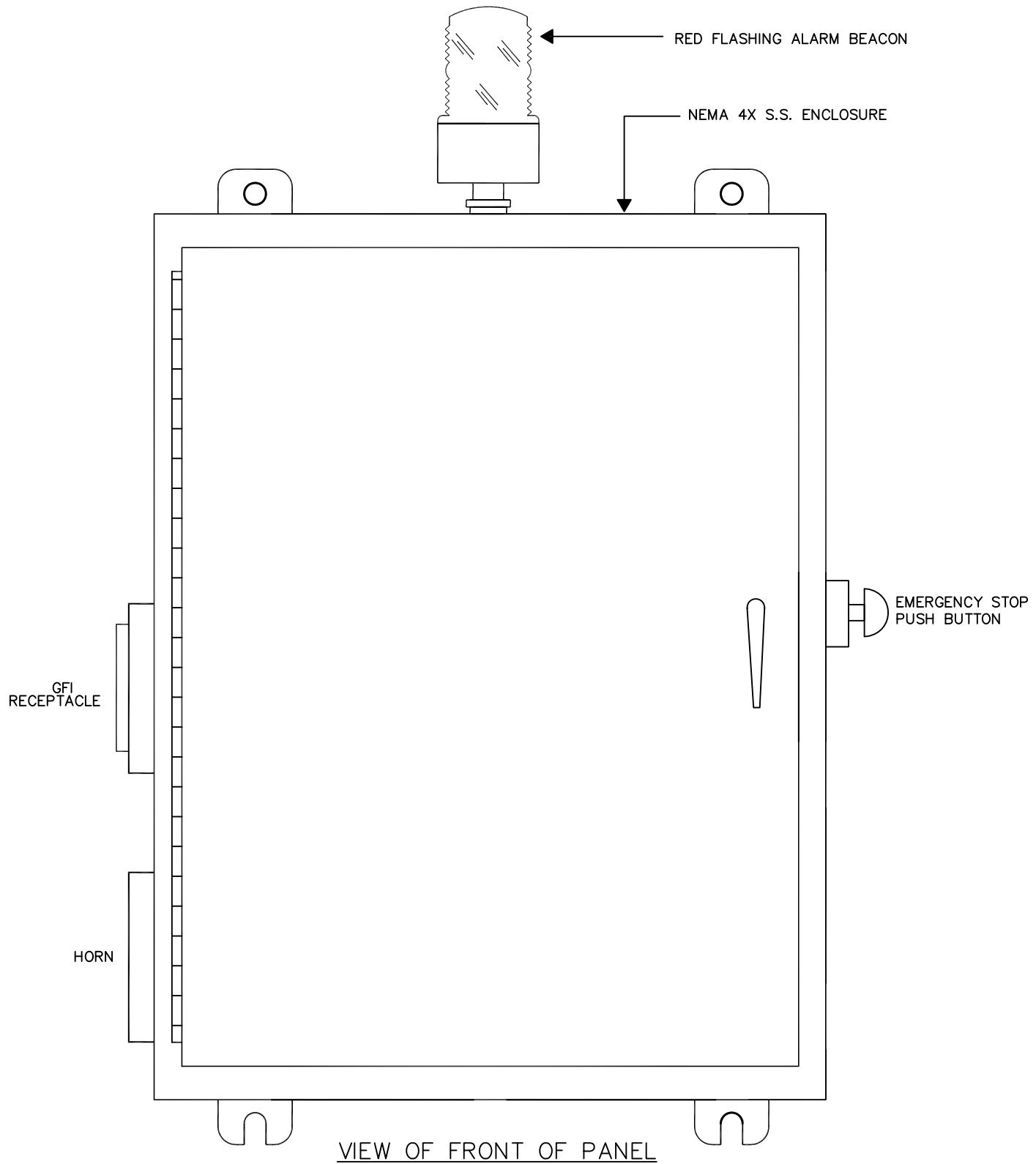
* IF BRIDGE DOES NOT MOVE FROM STOP POSITION
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 AT INFLUENT END IN 60 MIN. AFTER STARTING,
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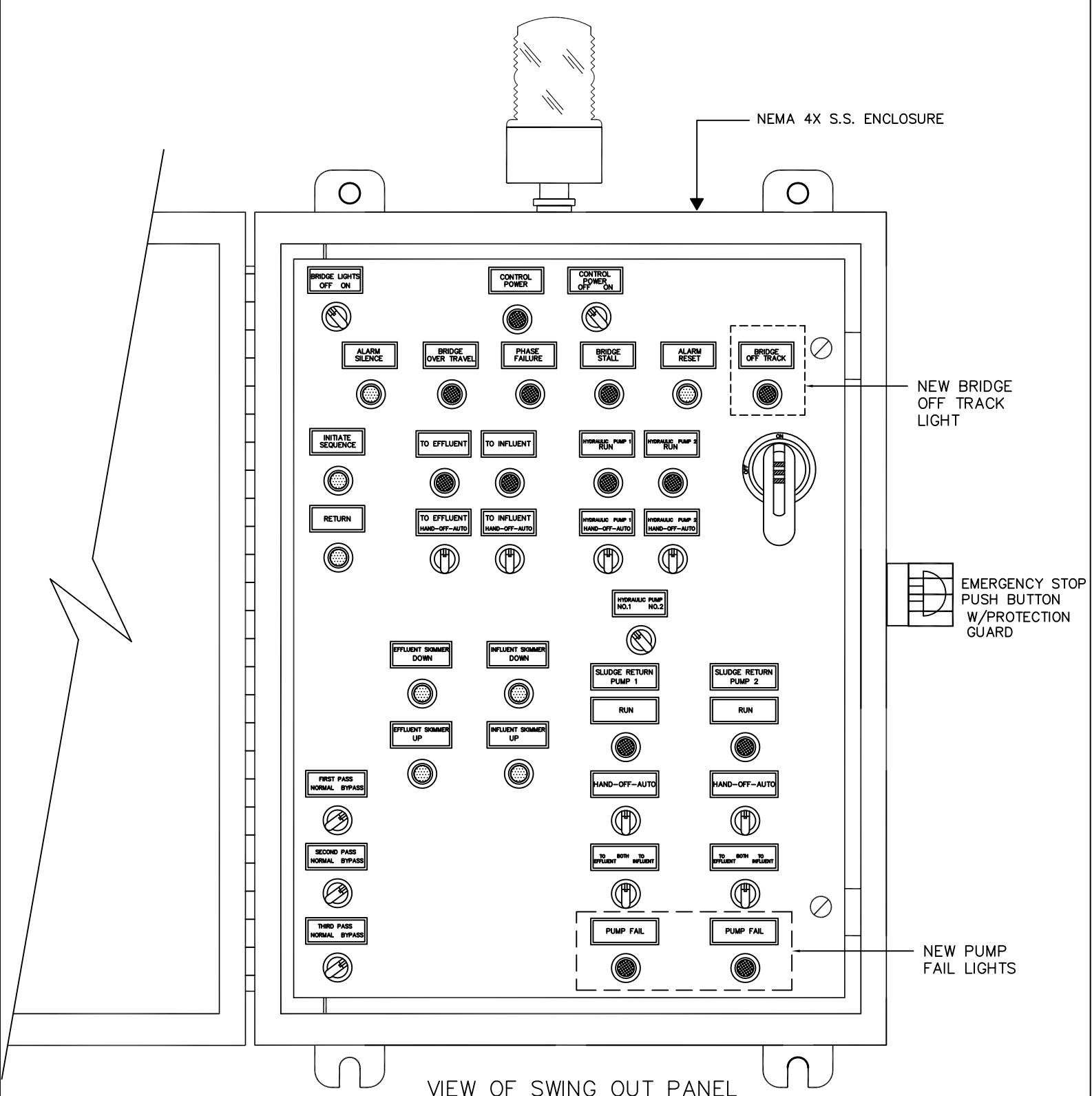


- LS1 – LIMIT SWITCH USED TO STOP BRIDGE, SHUTDOWN SYSTEM, AND SOUND ALARM IF BRIDGE OVERTRAVEL OCCURS ON INFLUENT END.
 LS2 – LIMIT SWITCH USED TO STOP BRIDGE AND START OFF PERIOD TIMER
 LS3 – LIMIT SWITCH USED TO STOP AND RETURN BRIDGE ON FULL RUN
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1 REV. NO.	REVISION DESCRIPTION	9/19/05 DATE	CTR DRN	CHK
G-H Systems SYSTEMS FOR WATER AND WASTEWATER TREATMENT				
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DRAWN BY: C.RACHAL DATE: 9/18/03 SHT 7 REV. 1 APP'D. BY: DATE: SCALE: N.T.S. JOB NO: FILE: DWG. NO:				



REV. NO.	DESCRIPTION	DATE	DRN	CHK
<i>G-H Systems</i>				
	SYSTEMS FOR WATER AND WASTEWATER TREATMENT			
	2924 Brakely Drive, Unit B-4 TELEPHONE: (225) 293-5288	Baton Rouge, LA 70816 — FAX: (225) 291-1482		
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DRAWN BY: C.RACHAL	DATE: 9/18/03	SHT 8	REV.	
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FILE:	DWG. NO:			

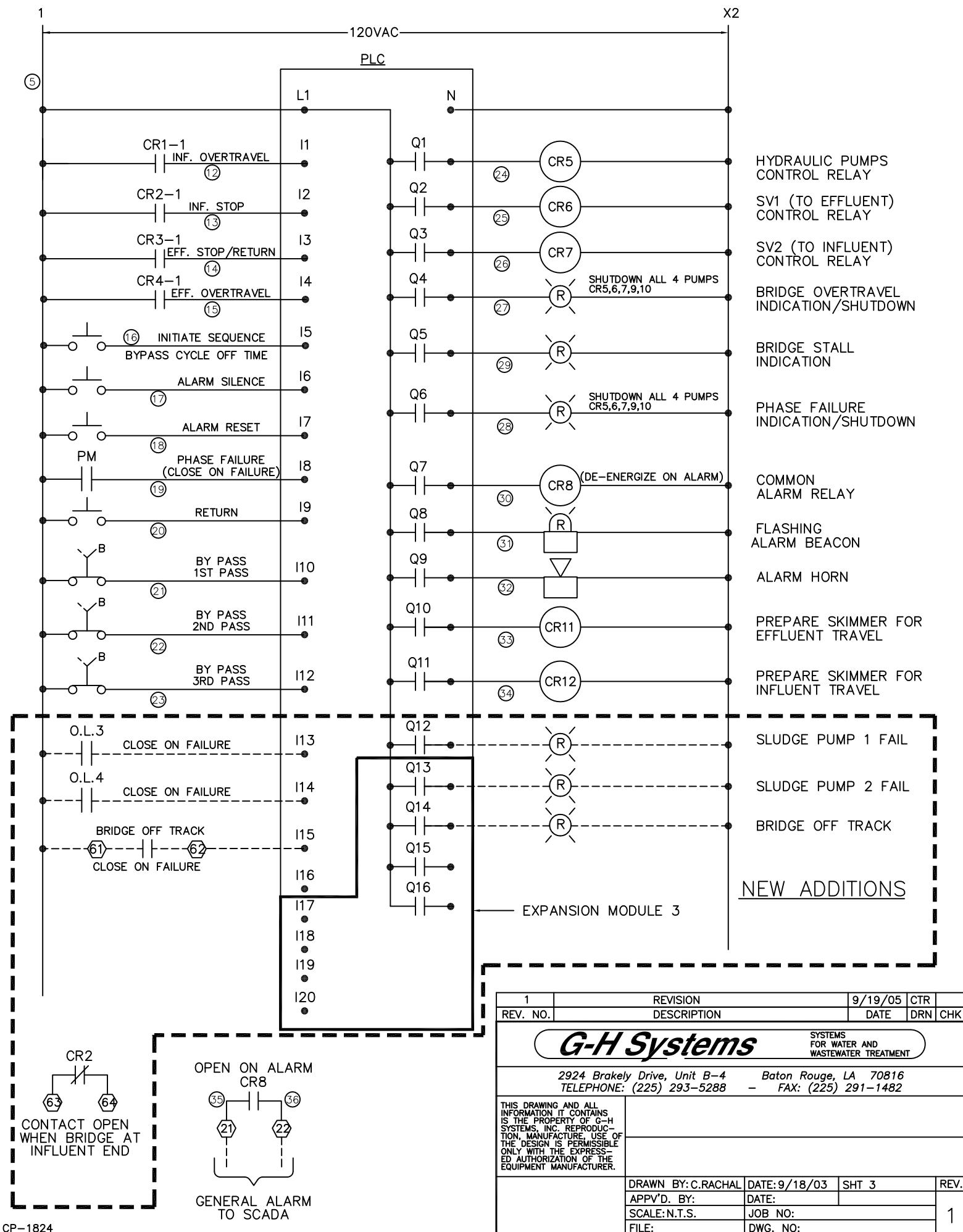


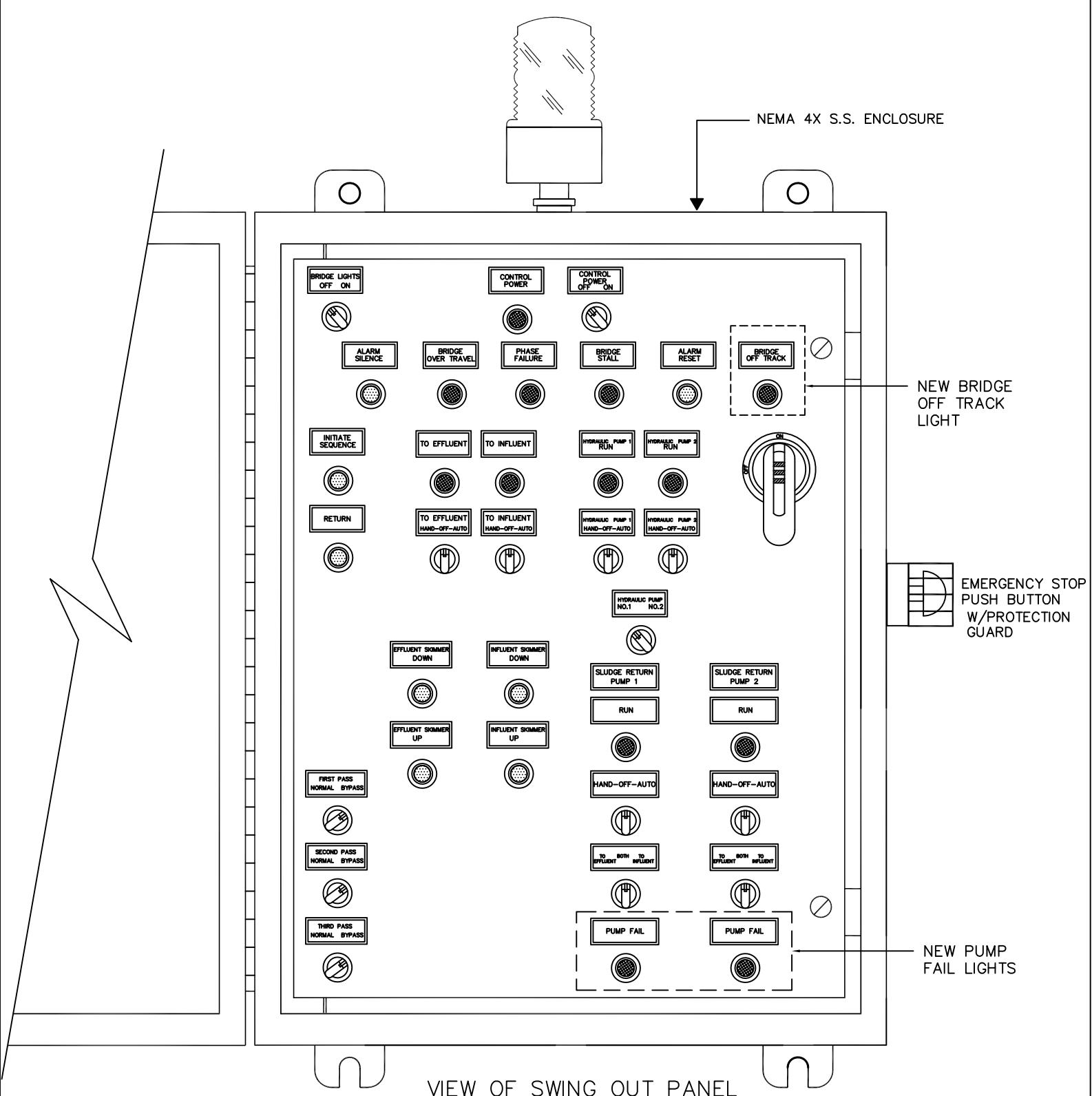
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DRAWN BY: C.RACHAL	DATE: 9/18/03	SHT 9	REV.	
APP'D. BY:	DATE:			
SCALE: N.T.S.	JOB NO:			
FILE:	DWG. NO:			

BILL OF MATERIAL

ITEM	QTY	MANUFACTURER	PART NO.	DESCRIPTION
1	1	EBE	S483612N4X	ENCLOSURE
1a	1	EBE	4836P	BACKPLATE
1b	1	EBE	A4836SP	DEAD FRONT
2	1	ABB	OT63E3	DISCONNECT SWITCH
3	4	ABB	A16-30-10-84	MS1-4
4	4	ABB	TA25DU8.5	OL1-4 (6.0-8.5A)
5	1	BUSSMAN	16371-3	DISTRIBUTION BLOCK
6	1	SSAC	PLMU-11	PHASE MONITOR
7	1	SQUARE D	9070T1500D1	TRANSFORMER
8	2	SQUARE D	9070TFSC-2	FINGER PROTECTION COVER
9	4	SQUARE D	QOU110	CB5-8
10	3	A-B	800H-HR2A	2 POSITION SWITCH
11	1	A-B	800H-FRXTQ10RA1	EMERGENCY PUSH BUTTON
12	8	A-B	800H-AR2A	PUSH BUTTON
13	6	A-B	800H-QR10R	RED PILOT LIGHT
14	6	A-B	800H-QR10G	GREEN PILOT LIGHT
15	2	A-B	800H-JR2KD7	3 POSITION SWITCH
16	6	A-B	800H-JR2A	HOA SWITCH
17	1	A-B	800T-N209RE1	E-STOP BUTTON
18	15	IDECK	RU4S 110A	CONTROL RELAYS
19	1	TOMAR	490S-120R	STROBE
20	1	EDWARDS	870P-N5	HORN
21	4	ABB	S1NO15TL	CB1,2,3,4
22	1	SIEMENS	230RC	PLC
23	3	SIEMENS	DM8230R	EXPANSION MODULE
24	1	ABB	OHB65L5	HANDLE
25	1	ABB	OXP5X265	SHAFT

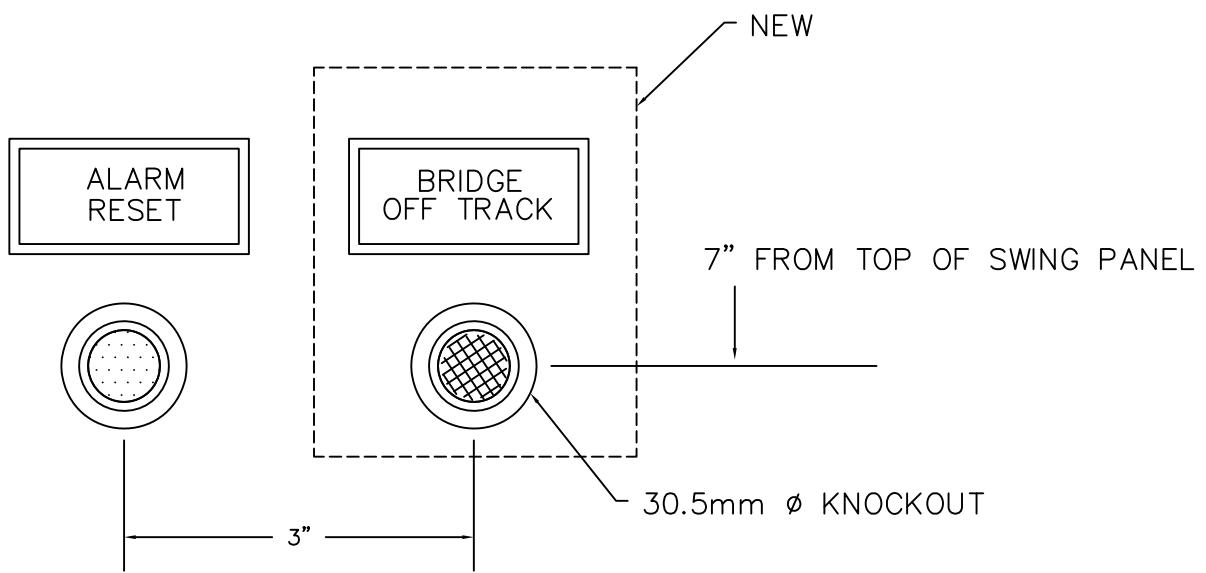
1	REVISION REV. NO.	9/19/05	CTR	DATE	DRN	CHK
 G-H Systems SYSTEMS FOR WATER AND WASTEWATER TREATMENT						
2924 Brakely Drive, Unit B-4 Baton Rouge, LA 70816 TELEPHONE: (225) 293-5288 FAX: (225) 291-1482						
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<small>DRAWN BY: C.RACHAL DATE: 9/18/03 SHT 10 REV.</small>						
<small>APP'D. BY: DATE: _____</small>						
<small>SCALE: N.T.S. JOB NO: _____</small>						
<small>FILE: DWG. NO: _____</small>						



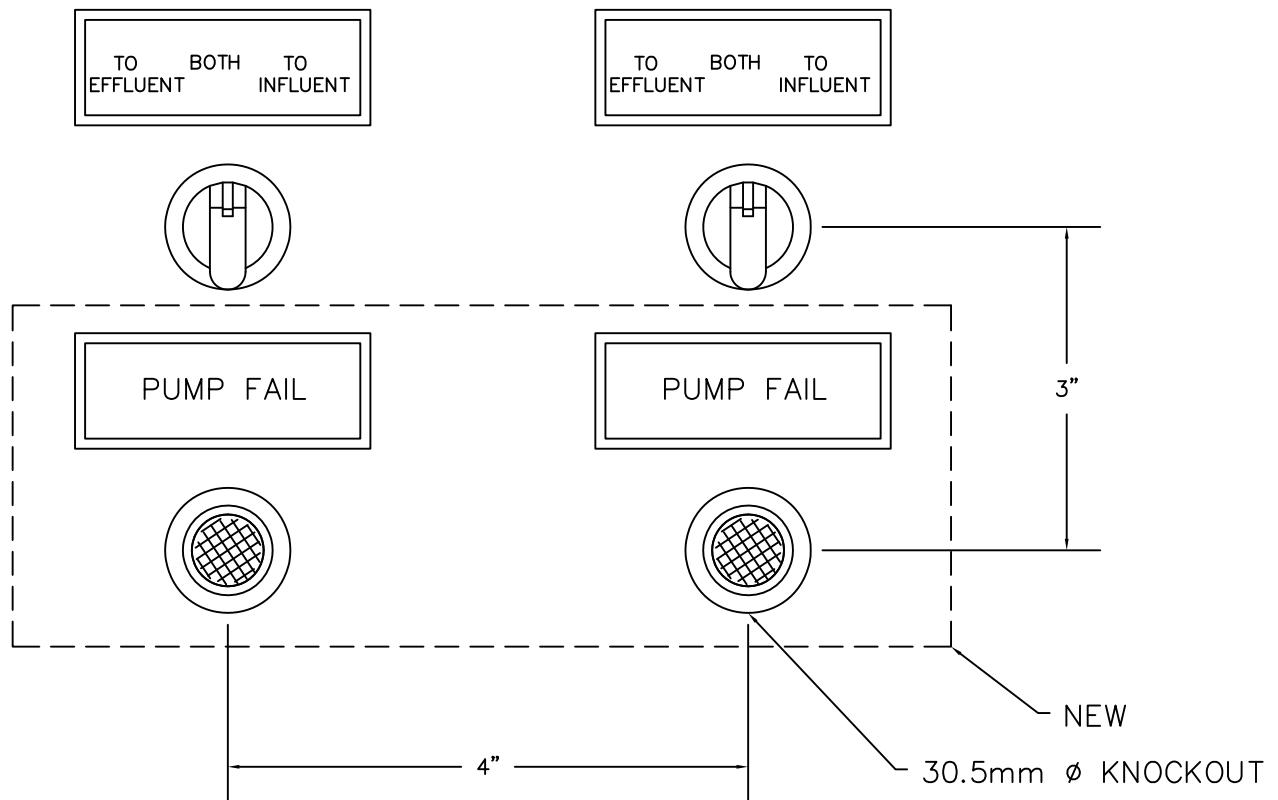


REV. NO.	DESCRIPTION	DATE	DRN	CHK
G-H Systems SYSTEMS FOR WATER AND WASTEWATER TREATMENT				
	2924 Brakely Drive, Unit B-4 TELEPHONE: (225) 293-5288	Baton Rouge, LA 70816 — FAX: (225) 291-1482		
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DRAWN BY: C.RACHAL	DATE: 9/18/03	SHT 9	REV.	
APP'D. BY:	DATE:			
SCALE: N.T.S.	JOB NO:			
FILE:	DWG. NO:			

TAGS AND LIGHTS TO
BE SUPPLIED BY COX



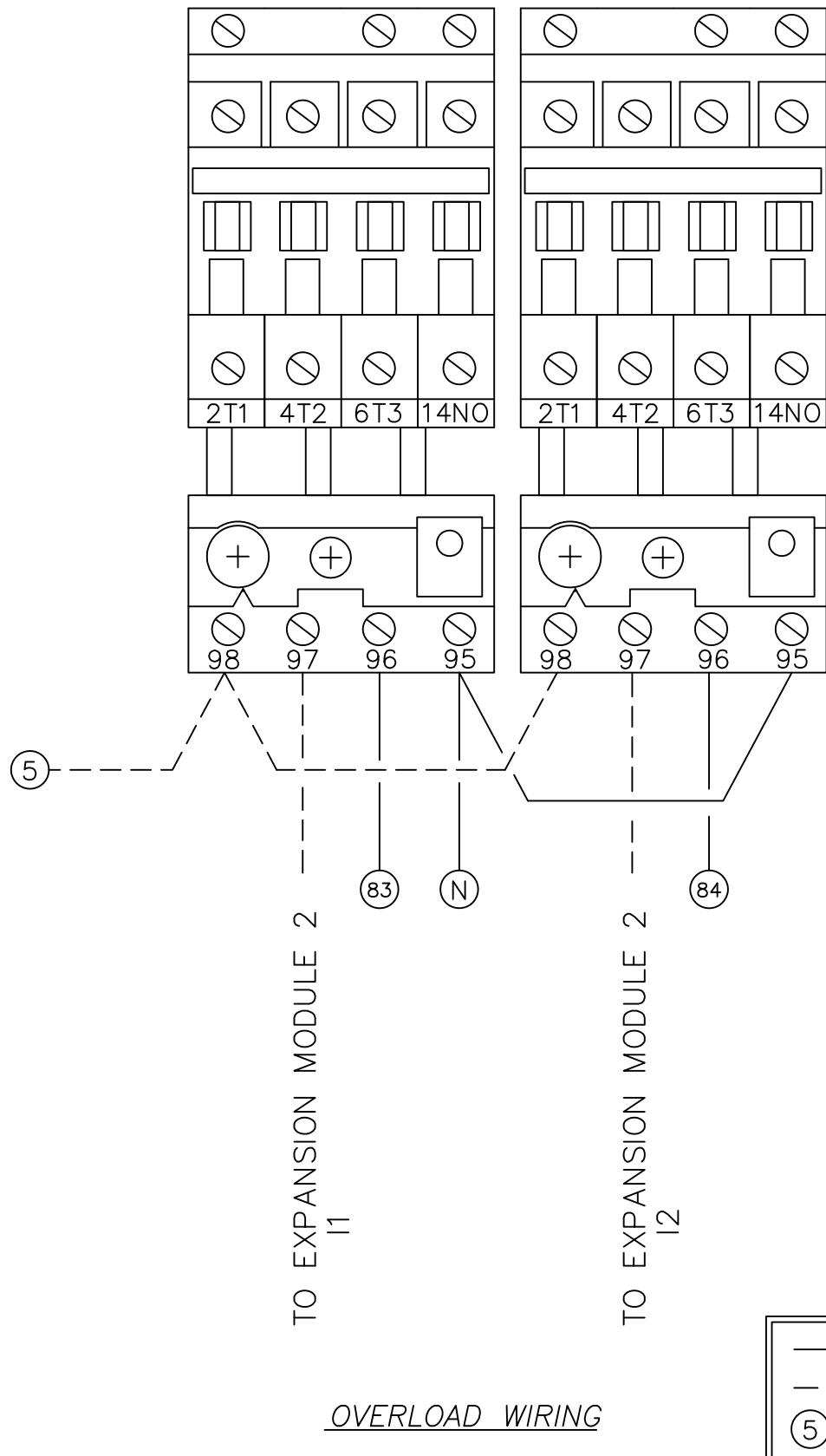
LIGHTS ARE ALLEN-BRADLEY 800H-QR10R



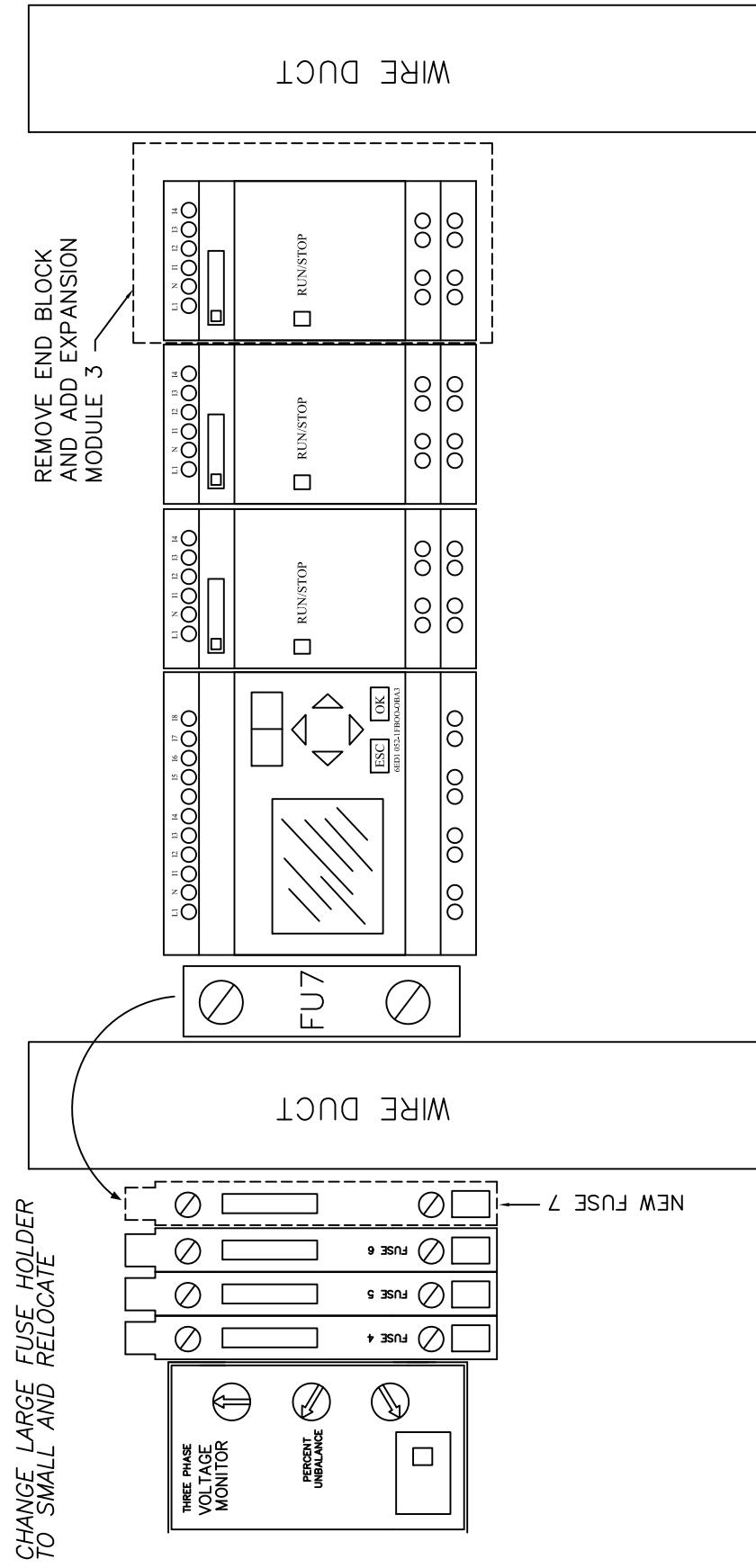
MOUNTING OF PILOT LIGHTS

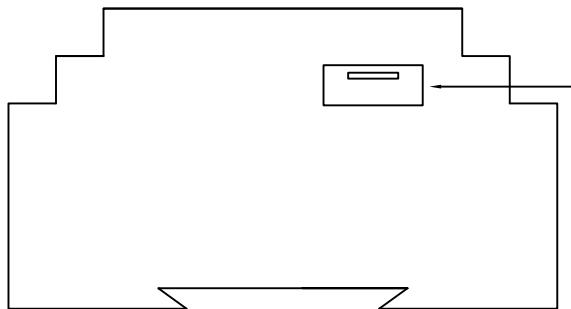
MS3

MS4

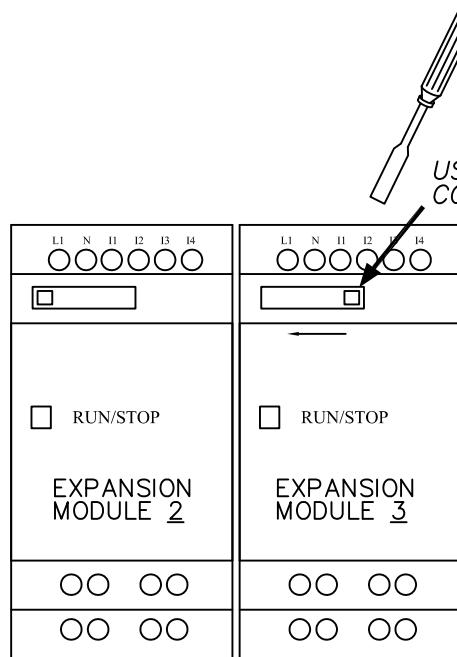


MOUNTING OF EXPANSION MODULE 3

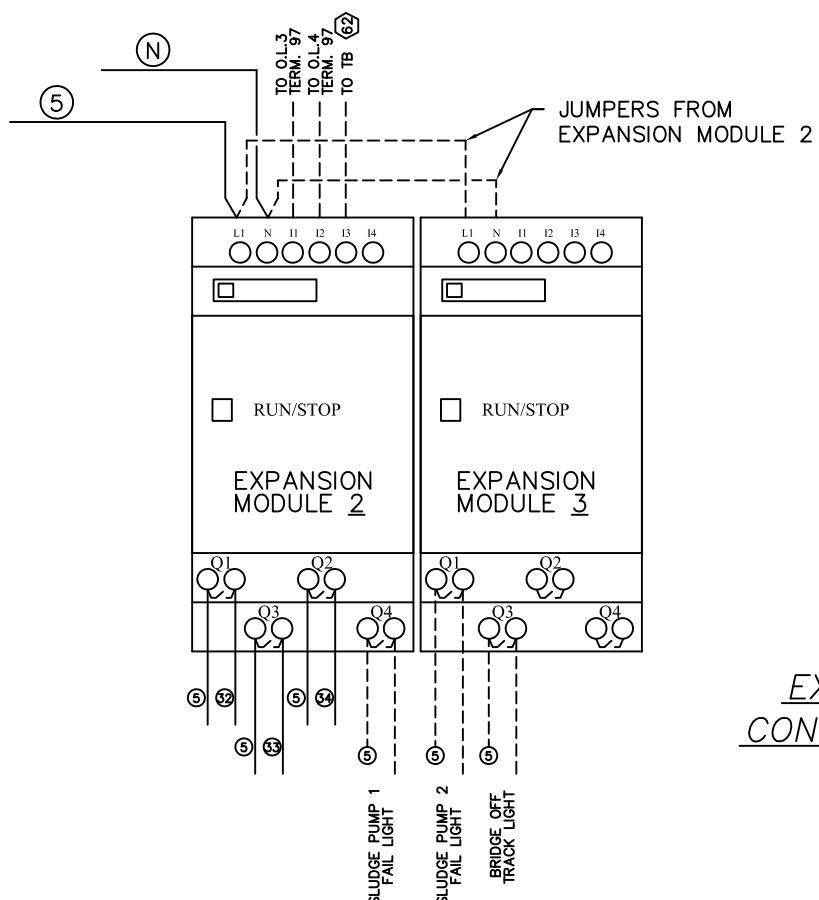




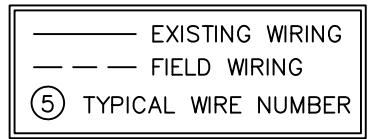
- REMOVE COMMUNICATION PORT COVER FROM EXPANSION MODULE 2

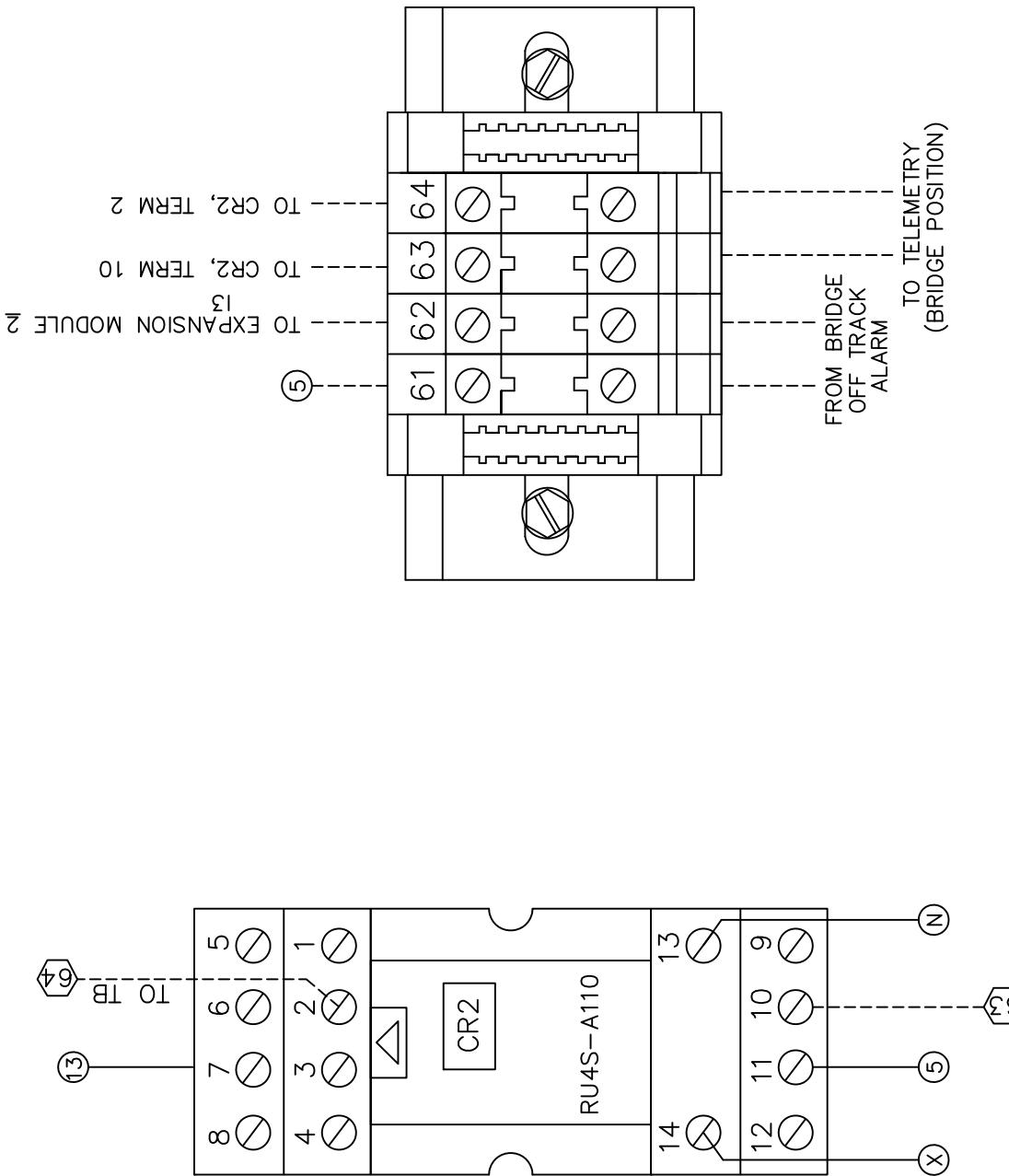


USE SMALL BLADE SCREWDRIVER TO SLIDE
COMMUNICATIONS CONNECTOR OVER



EXPANSION MODULE CONNECTIONS AND WIRING





WIRING OF TERMINALS AND RELAY

- EXISTING WIRING
- FIELD WIRING
- TYPICAL WIRE NUMBER