

RETURN BIDS TO:
RETOURNER LES SOUMISSIONS À:
Bid Receiving Public Works and Government
Services Canada/Réception des soumissions Travaux
publics et Services gouvernementaux Canada
800 Burrard Street, 12th floor
800,rue Burrard, 12e étage
Vancouver
British Columbia
V6Z 2V8
Bid Fax: (604) 775-9381

SOLICITATION AMENDMENT
MODIFICATION DE L'INVITATION

The referenced document is hereby revised; unless otherwise
indicated, all other terms and conditions of the Solicitation
remain the same.

Ce document est par la présente révisé; sauf indication contraire,
les modalités de l'invitation demeurent les mêmes.

Comments - Commentaires

Vendor/Firm Name and Address
Raison sociale et adresse du
fournisseur/de l'entrepreneur

Issuing Office - Bureau de distribution
Public Works and Government Services Canada -
Pacific Region
800 Burrard Street, 12th floor
800, rue Burrard, 12e étage
Vancouver
British C
V6Z 2V8

Title - Sujet Pump Replacement	
Solicitation No. - N° de l'invitation F1700-120202/A	Amendment No. - N° modif. 005
Client Reference No. - N° de référence du client	Date 2012-07-18
GETS Reference No. - N° de référence de SEAG PW-\$PWY-019-6717	
File No. - N° de dossier PWY-2-35021 (019)	CCC No./N° CCC - FMS No./N° VME
Solicitation Closes - L'invitation prend fin at - à 02:00 PM on - le 2012-07-24	Time Zone Fuseau horaire Pacific Daylight Saving Time PDT
F.O.B. - F.A.B. Plant-Usine: <input type="checkbox"/> Destination: <input checked="" type="checkbox"/> Other-Autre: <input type="checkbox"/>	
Address Enquiries to: - Adresser toutes questions à: Ngan, Ken (PWY)	Buyer Id - Id de l'acheteur pwy019
Telephone No. - N° de téléphone (604) 658-2755 ()	FAX No. - N° de FAX (604) 775-6633
Destination - of Goods, Services, and Construction: Destination - des biens, services et construction: DFO - Quinsam River Hatchery, Campbell River, B.C.	

Instructions: See Herein

Instructions: Voir aux présentes

Delivery Required - Livraison exigée	Delivery Offered - Livraison proposée
Vendor/Firm Name and Address Raison sociale et adresse du fournisseur/de l'entrepreneur	
Telephone No. - N° de téléphone Facsimile No. - N° de télécopieur	
Name and title of person authorized to sign on behalf of Vendor/Firm (type or print) Nom et titre de la personne autorisée à signer au nom du fournisseur/ de l'entrepreneur (taper ou écrire en caractères d'imprimerie)	
Signature	Date

Solicitation No. - N° de l'invitation

F1700-120202/A

Client Ref. No. - N° de réf. du client

Amd. No. - N° de la modif.

005

File No. - N° du dossier

PWY-2-35021

Buyer ID - Id de l'acheteur

pw019

CCC No./N° CCC - FMS No/ N° VME

Les documents français seront disponibles sur demande.

Please find Addendum #3 attached.

All other terms and conditions remain unchanged.

This Amendment 005 (Addendum #3) is raised to provide clarifications to the specifications of the required work.

Solicitation: F1700-120202
Pump Replacement – Quinsam River Hatchery

The following changes in the tender documents are effective immediately. This addendum will form part of the Contract Documents.

Addendum No. 3

1. We do not see any load reactor between the drive and the motor. This protects the motor from voltage spikes and the motor will last a lot longer.

Output filters are not shown in the contract documents and are not required.

2. The one line shows both a breaker and fuses protecting the drive. The spec calls for new MCC buckets with feeder breakers. Are you wanting both MCP breaker and fuses installed in the NEMA 12 enclosures with the drive or just the MCP breaker as disconnect in the drive enclosure.

The drives should be installed in NEMA 12 enclosures per the drive manufacturers recommendations and requirements. As shown on sheet E3, if fusing is required by the drive manufacturer, they should be provided.

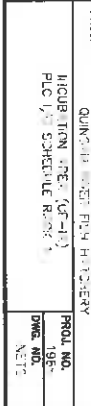
3. The one line also calls for MCP breaker in the new MCC buckets but these need to be molded case breakers as MCP breakers have no thermal protection to protect the cable going to the drives.

Short circuit and thermal overload protection is required for the motors. The drawings show motor circuit protectors in the MCC and thermal overloads at the VFD (see detail 3/E-3).

4. Can you please provide more details as the model of existing AB PLC and HMI. Also, will we be getting a copy of the current configuration in order to add more programming?

See attached.

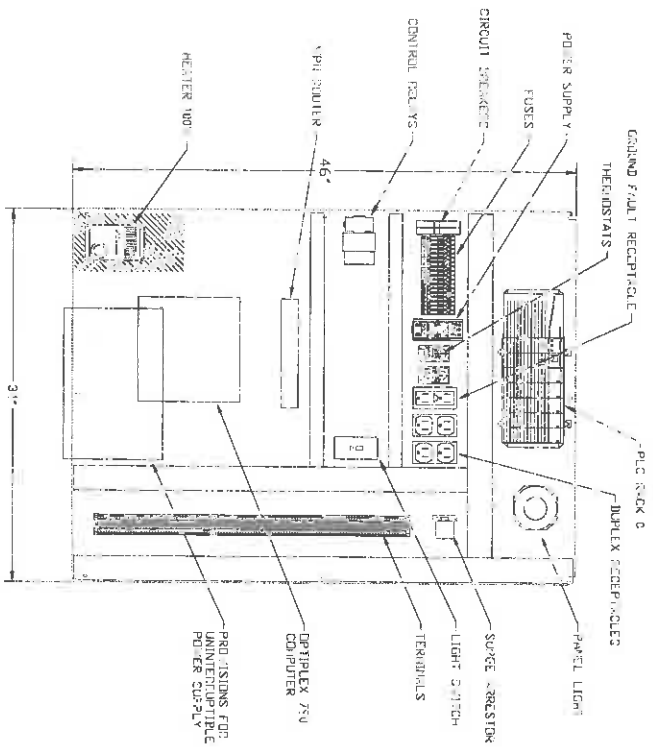
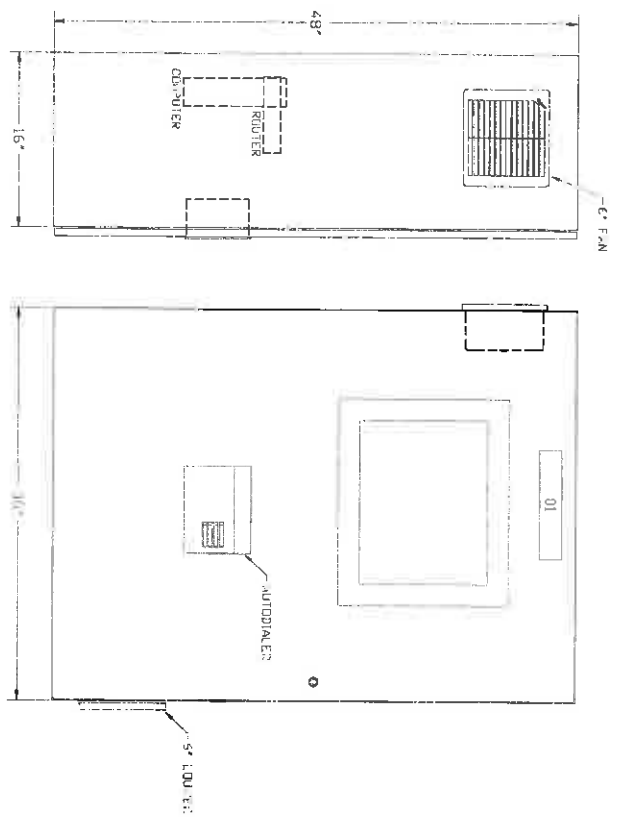
End of Addendum No. 3



ICS
INSTRUMENT
CONTROL SYSTEMS

FILENAME	TITLE.1	TITLE.2	TITLE.3	TITLE.4	FILEDATE
15833-1006		DR-33-10 INDEX			7/3/2015
15906-307	FIELDER, R.D. (GP-113)	FIELDER, DETAIL	CONTROL P.O. R. MARKING		6/28/2010
15935-1106	FIELDER, R.D. (GP-113)	P.L.V. SCHEDULE			1/1/2010
15964-1006	FIELDER, R.D. (GP-113)	ENC. FLOWERS IN UPS			5/3/2010
15986-1008	FIELDER, R.D. (GP-113)	24 HOURS PER-CENTRUM	CONTROL P.O. R. MARKING		7/1/2010
15994-101	FIELDER, R.D. (GP-113)	SP. RE. DISORD. IN CULTIVUS	CONTROL P.O. R. MARKING		7/1/2010
15996-109	FIELDER, R.D. (GP-113)	SP. RE. DISORD. IN CULTIVUS	CONTROL P.O. R. MARKING		7/1/2010
15998-103	FIELDER, R.D. (GP-113)	SP. RE. DISORD. IN CULTIVUS	CONTROL P.O. R. MARKING		7/1/2010
15999-104	FIELDER, R.D. (GP-113)	SP. RE. DISORD. IN CULTIVUS	CONTROL P.O. R. MARKING		7/1/2010
15999-105	FIELDER, R.D. (GP-113)	SP. RE. DISORD. IN CULTIVUS	CONTROL P.O. R. MARKING		7/1/2010

[illegible]



PANEL LAYOUT

NOTES:

- ENCLOSURE IS A NEW, TYPE 4, 18" WALL MOUNT HATCHERY CAVITY.
- WITH INNER PANEL HEIGHT OF 40.5"
- 3 IN. S&P.



AS INSTALLED
DRAWINGS
DATE: 1/18/2011

ICS
INSTRUMENT
CONTROL SYSTEMS

DATE	REVISION DESCRIPTION
1/18/2011	1. FIRST
	2. REVISED

ICS HEALY-RUFF
Instrument Control Systems, Inc.
1800 10th Avenue North, Suite 100, Sparks, NV 89410
Ph: (775) 333-3333 Fax: (775) 333-3337 www.ics-healy-ruff.com

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RIGHTS RESERVED.
INSTRUMENT CONTROL
SYSTEMS, INC.

DATE	DWG	REV	BY	CHK	APP
1/18/2011					

PROJECT	QUANTITY	REMARKS	PROJ. NO.
HATCHERY BLDG. (CP-HQ)		ENCLOSURE DETAIL	001

CONTROL PANEL

LEGEND:

- F1: FUSE
- F2: FUSE
- C1: RELAY
- M1: MOTOR
- F1: FAN
- TB1: TERMINAL BLOCK

WIRING DETAILS:

- Power supply: 24VDC transformer, F1, TB1.
- Control section: F2, C1, F1.
- Motor and Fan: M1, F1.

ICS INSTALLED
DATE: 6/2/00
BY: J. W. NICHOLS
1/2/01

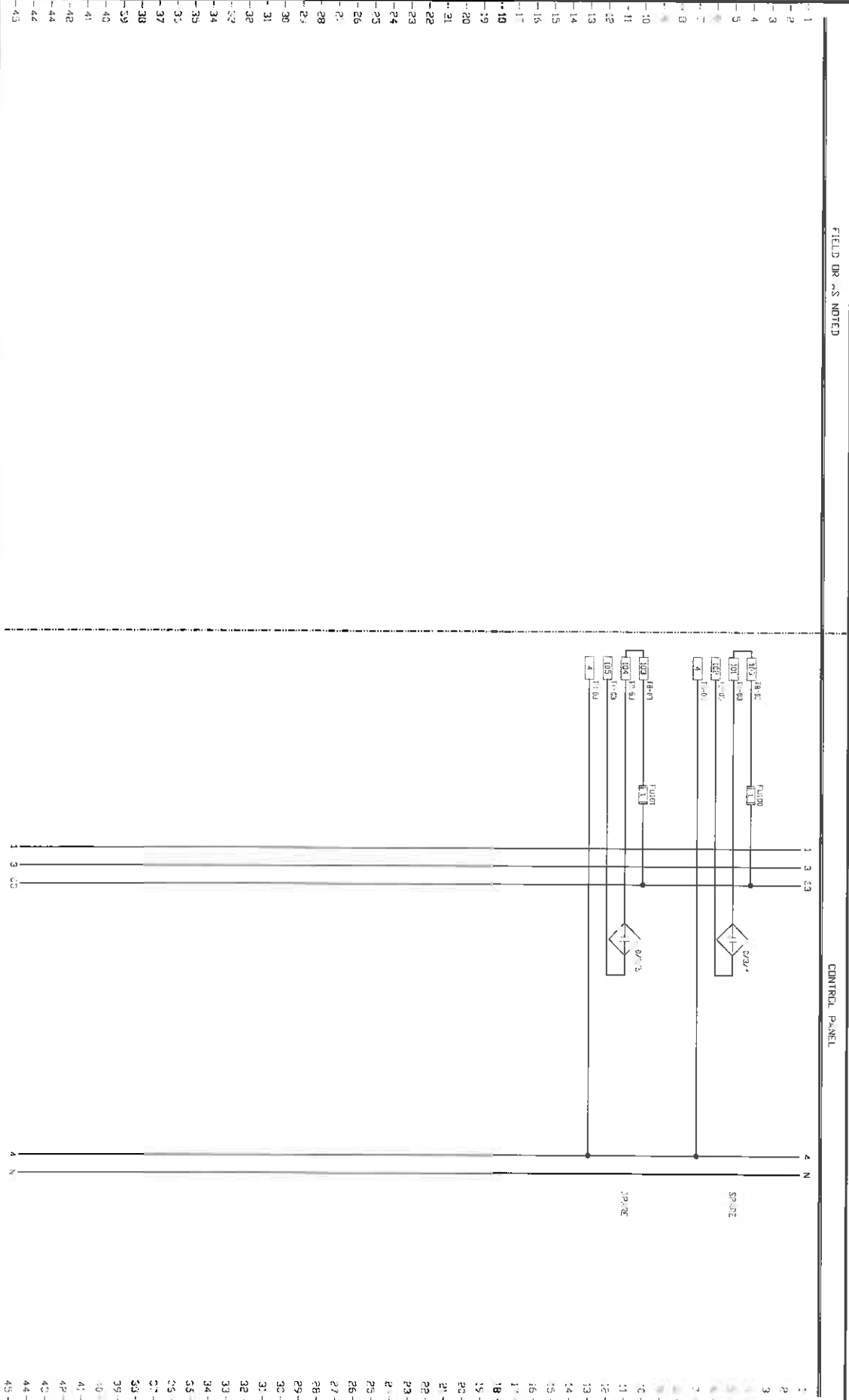
ICS INSTRUMENT CONTROL SYSTEMS

DATE	REVISION DESCRIPTION
6/2/00	1.000
1/2/01	1.001

ICS HEALY-RUFF
Instrument Control Systems, Inc.
1200 100 Avenue North, Suite 100, Okemah, OK 73444
PH: (405) 895-6888 FAX: (405) 895-2187 www.icshealy-ruff.com

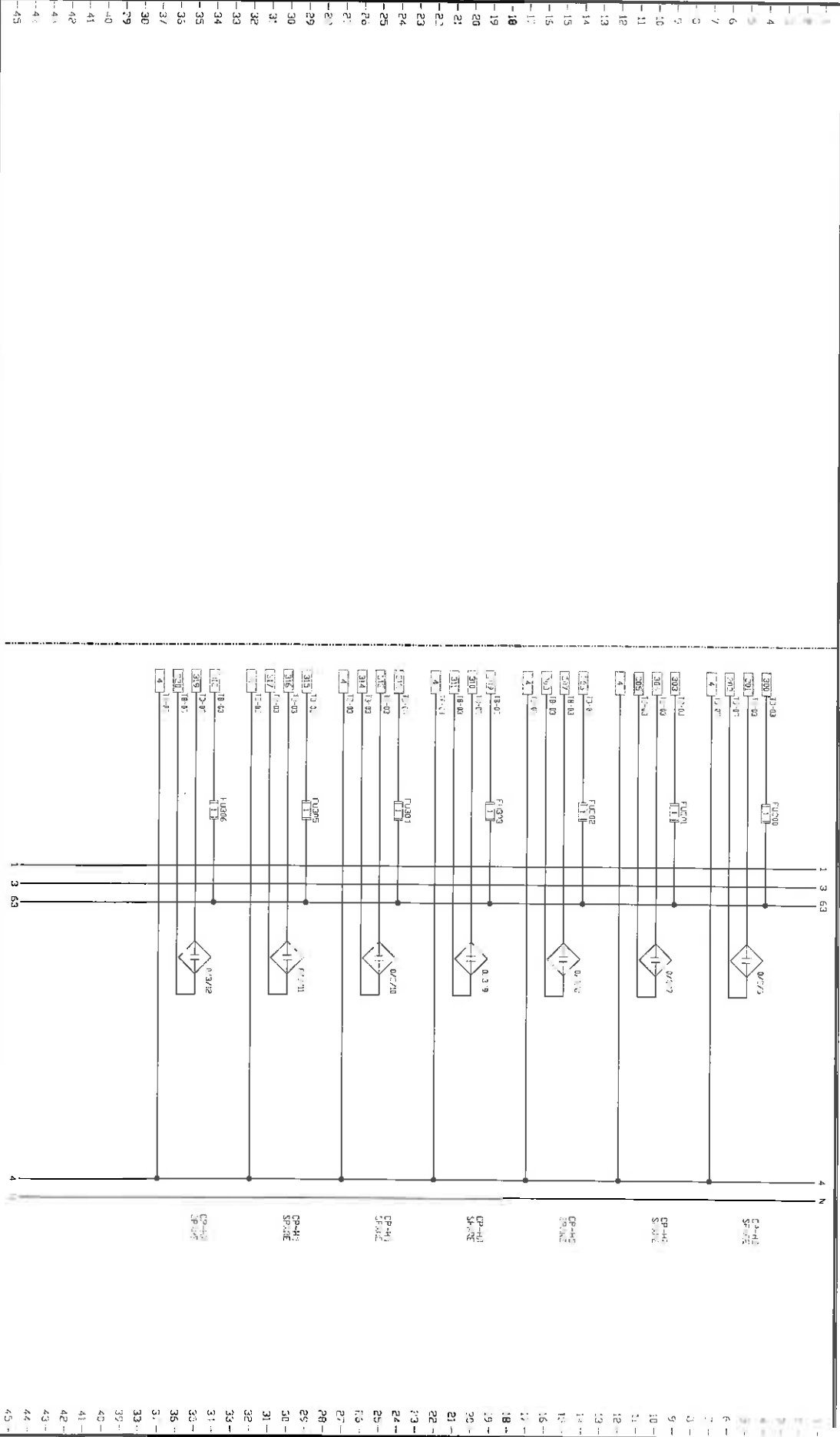
DATE	DATE	PROJECT
6/2/00	6/2/00	QUICK FIELD FROM HATCHERY
1/2/01	1/2/01	HATCHERY BLDG. (CP-HB)
1/2/01	1/2/01	SPARE DIGITAL CIRCUITS

DATE	DATE	PROJECT	PROJ. NO.
6/2/00	6/2/00	QUICK FIELD FROM HATCHERY	1859-001
1/2/01	1/2/01	HATCHERY BLDG. (CP-HB)	1859-001
1/2/01	1/2/01	SPARE DIGITAL CIRCUITS	1859-001



FIELD OR AS NOTED

CONTROL PANEL



NOT INSTALLED
OR
REMOVED
1-1-71

ICS INSTRUMENT
CONTROL SYSTEMS

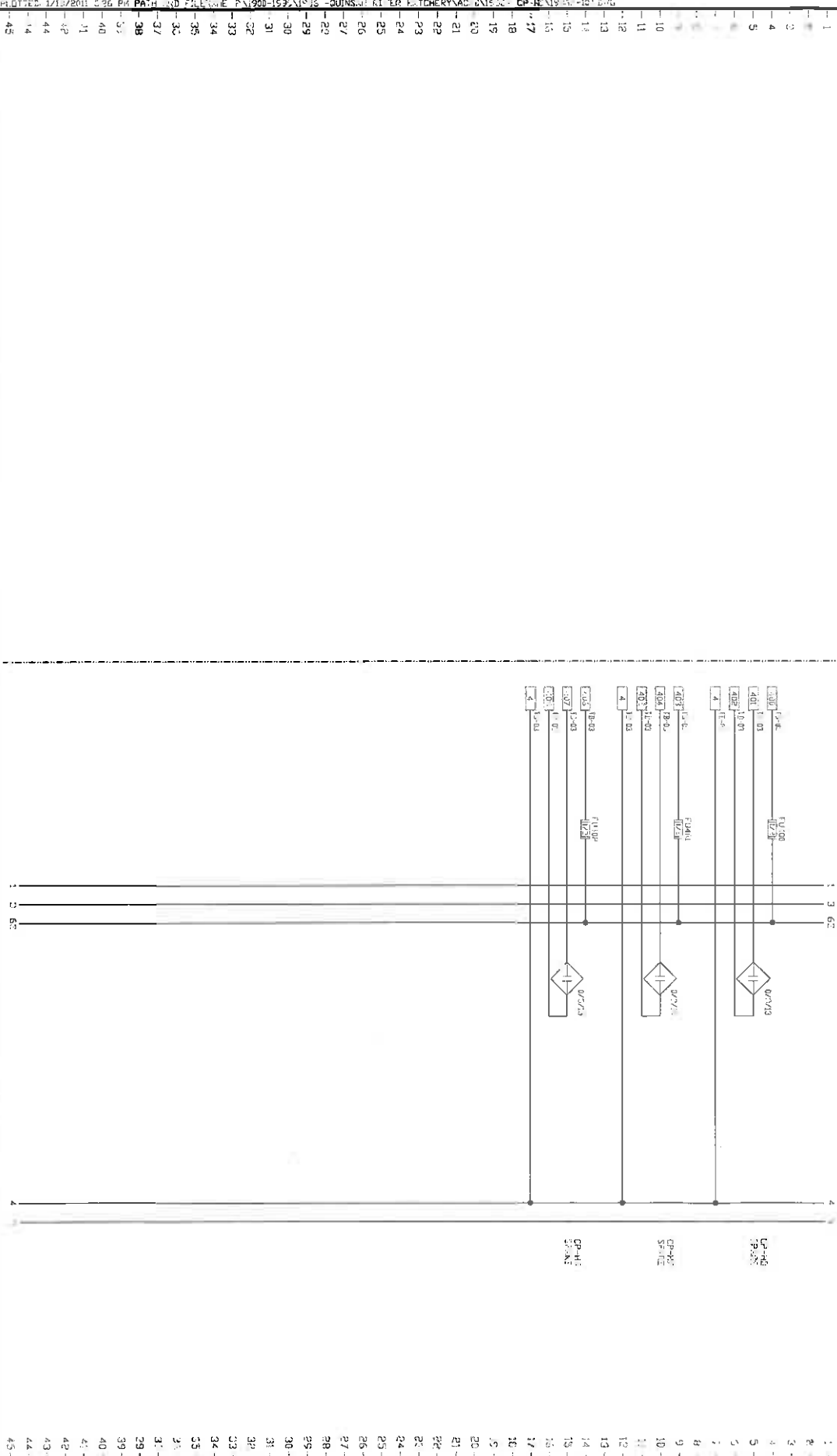
DATE	REVISION DESCRIPTION
5/7/2010	REVISED
1/3/71	NOTIFIED

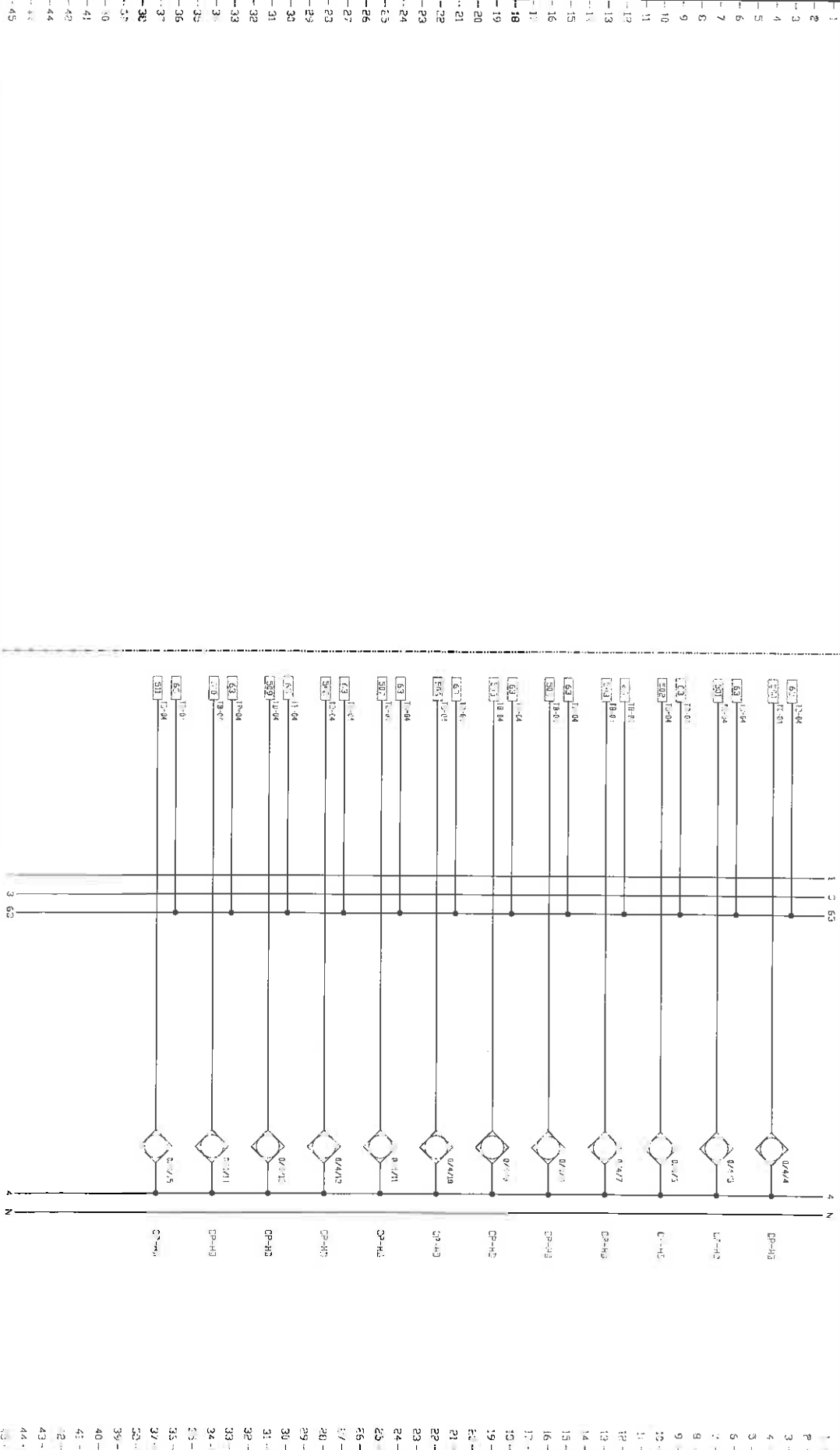
ICS HEALY-RUFF
Instrument Control Systems, Inc.
7300 West Avenue North, Suite 110, Plymouth, MI 48178
Ph: 734.500.0088 Fax: 734.500.2187 www.icshealyruff.com

FOR YOUR CONVENIENCE
PROPERTY INFORMATION
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INSTRUMENT CONTROL
SYSTEMS, INC.

DATE	BY	PROJECT
5/7/10	JL	QUANTUM RIVER FISH HISTORY
DN	CO	HISTORY BLDG (CP-HB)
ENGR	CS	SPARE DISCRETE OUTPUTS
SHEET	8	OF 10

PROJECT	PROJ. NO.
QUANTUM RIVER FISH HISTORY	1988
HISTORY BLDG (CP-HB)	1988
SPARE DISCRETE OUTPUTS	1988
QUANTUM RIVER FISH HISTORY	1988





ICS
INSTRUMENT
CONTROL SYSTEMS

AS INSTALLED
DRAWINGS
NEW LORONGS, STOK
NY CHARTERS HILL
PILING STATION
1/8/11

DATE	REVISION DESCRIPTION
8/28/10	N. BULL
7/26/11	RE-INSTALLER

ICS HEALY-RUFF
weld and fastener control solutions

Instrument Control Systems, Inc.
13005 14th Avenue North, Suite 100, Plymouth, MI 48170

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 SYSTEMS, INC.

DATE	6/10
OWN	USA
CKD	FR
ENGR.	C
ASSEM.	
SHEET	IF 02 17

PROJECT	CONSUMPTION FOR HATCHERY
P-10000 BLDG. (CP-10)	
CP/HE DISCRETE INPUTS	
CONTROL POWER WIRING	

PROJ. NO.	
DWG. NO.	

NOT INSTALLED
DRAWINGS
FOR THE HATCHERY
QUINCY RIVER
HATCHERY
2/2/11

ICS
INSTRUMENT
CONTROL SYSTEMS

DATE	REVISION DESCRIPTION
7/27/10	BUILT
5/2/11	LED

ICS HEAT-RUFF
Instrument Control Systems, Inc.
15005 14th Avenue North, Suite 100, Plymouth, MN 55441
Ph: (763) 286-0000 Fax: (763) 286-1100 www.icsheatreff.com

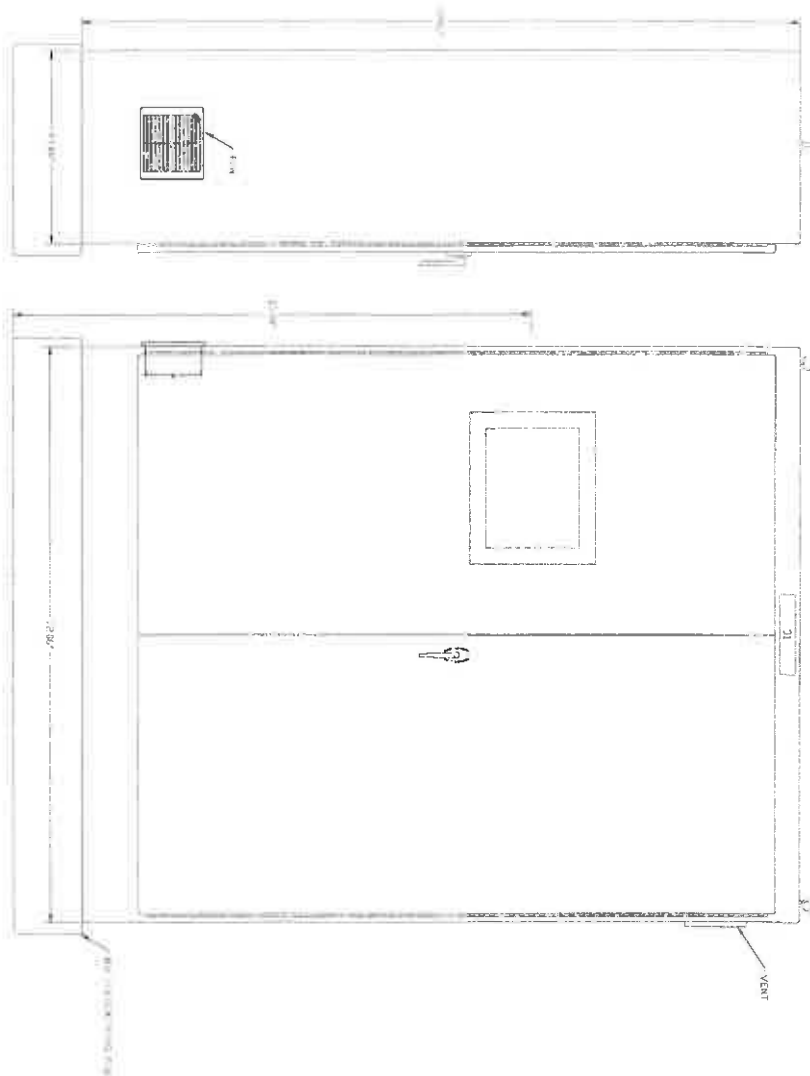
DATE	DATE	PROJECT
7/27/10	7/27/10	QUINCY RIVER HATCHERY
ENGR.	ENGR.	INCUBATION AREA (CP-4)
ASSN.	ASSN.	EMULSION DEPOSIT
SHEET	2 OF 53	

PROJ. NO.	DWG. NO.
19089	001

NOTES

1. FINISH FLOOR IS A 2" THICK TYPE 2 SLAB ON GRADE WITH 4" REINFORCING BARS.
2. FINISH FLOOR IS 4" THICK TYPE 2 SLAB ON GRADE WITH 4" REINFORCING BARS.
3. FINISH FLOOR IS 4" THICK TYPE 2 SLAB ON GRADE WITH 4" REINFORCING BARS.

SCALE
1" = 10'-0"



TAG	LINE1	LINE2	LINE3	SIZE	REMARKS
01	CP-4	INCUBATION AREA	5'x10'		INCUBATION AREA (CP-4)

NAMEPLATE SCHEDULE				
TAG	LINE1	LINE2	LINE3	SIZE REMARKS
01	02 ALARM			1X3
02	ACKNOWLEDGE			1X3
NAMEPLATES ARE BLACK WITH WHITE LETTERS				



ICS
INSTRUMENT
CONTROL SYSTEMS

DATE	REVISION DESCRIPTION
6/28/11	
1/23/11	SINISTEER



ALL 2010 CONSTRUCTION
PROVISIONAL INFORMATION
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STRATZ, INC.
SHEET 7 OF 13

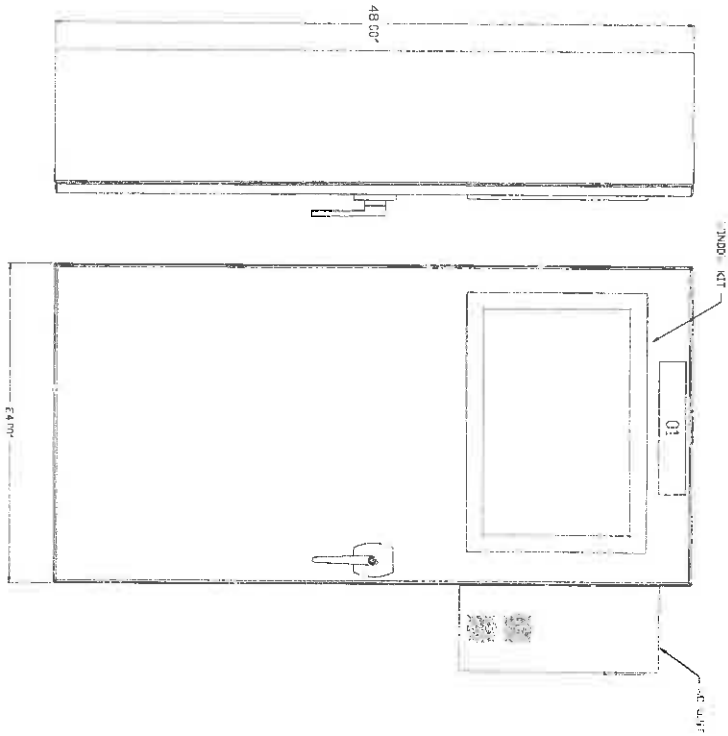
PROJECT: GRASSHOPPER HATCHERY
OWNER: PANEL GP-100
ENGINEER: DETAIL
PROJ. NO.
DWS. NO.
SHEET 7 OF 13

NOTES

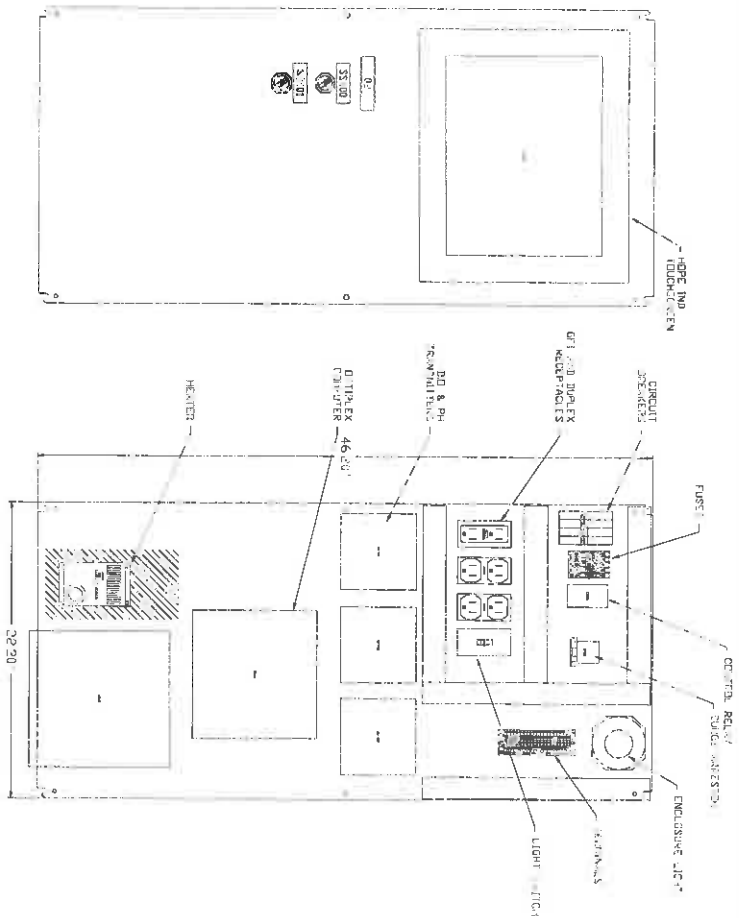
1. REFERENCE TO A WORKING DRAWING OF THE HATCHERY CONTROL SYSTEM WITH INNER PANEL HATCHERY GP-100.
2. SEE THE HATCHERY HATCHERY GP-100.
3. SEE THE HATCHERY HATCHERY GP-100.
4. FINISH IS STAINLESS STEEL.

SCALE

0 6' 12'



INNER HATCHERY LAYOUT



PANEL LAYOUT

TAG	LINE	LINE	LINE	SIZE	REMARKS
01	01-01	01-01	01-01	1/2"	
02	02-01	02-01	02-01	1/2"	
03	03-01	03-01	03-01	1/2"	
04	04-01	04-01	04-01	1/2"	
05	05-01	05-01	05-01	1/2"	
06	06-01	06-01	06-01	1/2"	
07	07-01	07-01	07-01	1/2"	
08	08-01	08-01	08-01	1/2"	
09	09-01	09-01	09-01	1/2"	
10	10-01	10-01	10-01	1/2"	
11	11-01	11-01	11-01	1/2"	
12	12-01	12-01	12-01	1/2"	
13	13-01	13-01	13-01	1/2"	
14	14-01	14-01	14-01	1/2"	
15	15-01	15-01	15-01	1/2"	
16	16-01	16-01	16-01	1/2"	
17	17-01	17-01	17-01	1/2"	
18	18-01	18-01	18-01	1/2"	
19	19-01	19-01	19-01	1/2"	
20	20-01	20-01	20-01	1/2"	
21	21-01	21-01	21-01	1/2"	
22	22-01	22-01	22-01	1/2"	
23	23-01	23-01	23-01	1/2"	
24	24-01	24-01	24-01	1/2"	
25	25-01	25-01	25-01	1/2"	
26	26-01	26-01	26-01	1/2"	
27	27-01	27-01	27-01	1/2"	
28	28-01	28-01	28-01	1/2"	
29	29-01	29-01	29-01	1/2"	
30	30-01	30-01	30-01	1/2"	
31	31-01	31-01	31-01	1/2"	
32	32-01	32-01	32-01	1/2"	
33	33-01	33-01	33-01	1/2"	
34	34-01	34-01	34-01	1/2"	
35	35-01	35-01	35-01	1/2"	
36	36-01	36-01	36-01	1/2"	
37	37-01	37-01	37-01	1/2"	
38	38-01	38-01	38-01	1/2"	
39	39-01	39-01	39-01	1/2"	
40	40-01	40-01	40-01	1/2"	
41	41-01	41-01	41-01	1/2"	
42	42-01	42-01	42-01	1/2"	
43	43-01	43-01	43-01	1/2"	
44	44-01	44-01	44-01	1/2"	
45	45-01	45-01	45-01	1/2"	
46	46-01	46-01	46-01	1/2"	
47	47-01	47-01	47-01	1/2"	
48	48-01	48-01	48-01	1/2"	
49	49-01	49-01	49-01	1/2"	
50	50-01	50-01	50-01	1/2"	
51	51-01	51-01	51-01	1/2"	
52	52-01	52-01	52-01	1/2"	
53	53-01	53-01	53-01	1/2"	
54	54-01	54-01	54-01	1/2"	
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57	57-01	57-01	57-01	1/2"	
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61	61-01	61-01	61-01	1/2"	
62	62-01	62-01	62-01	1/2"	
63	63-01	63-01	63-01	1/2"	
64	64-01	64-01	64-01	1/2"	
65	65-01	65-01	65-01	1/2"	
66	66-01	66-01	66-01	1/2"	
67	67-01	67-01	67-01	1/2"	
68	68-01	68-01	68-01	1/2"	
69	69-01	69-01	69-01	1/2"	
70	70-01	70-01	70-01	1/2"	
71	71-01	71-01	71-01	1/2"	
72	72-01	72-01	72-01	1/2"	
73	73-01	73-01	73-01	1/2"	
74	74-01	74-01	74-01	1/2"	
75	75-01	75-01	75-01	1/2"	
76	76-01	76-01	76-01	1/2"	
77	77-01	77-01	77-01	1/2"	
78	78-01	78-01	78-01	1/2"	
79	79-01	79-01	79-01	1/2"	
80	80-01	80-01	80-01	1/2"	
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82	82-01	82-01	82-01	1/2"	
83	83-01	83-01	83-01	1/2"	
84	84-01	84-01	84-01	1/2"	
85	85-01	85-01	85-01	1/2"	
86	86-01	86-01	86-01	1/2"	
87	87-01	87-01	87-01	1/2"	
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91	91-01	91-01	91-01	1/2"	
92	92-01	92-01	92-01	1/2"	
93	93-01	93-01	93-01	1/2"	
94	94-01	94-01	94-01	1/2"	
95	95-01	95-01	95-01	1/2"	
96	96-01	96-01	96-01	1/2"	
97	97-01	97-01	97-01	1/2"	
98	98-01	98-01	98-01	1/2"	
99	99-01	99-01	99-01	1/2"	
100	100-01	100-01	100-01	1/2"	

ICS
INSTRUMENT
CONTROL SYSTEMS

DATE	REVISION	DESCRIPTION
2.2.10	1	REV. "PULL"
1.2.74	1	REV. IN. J. CLEF

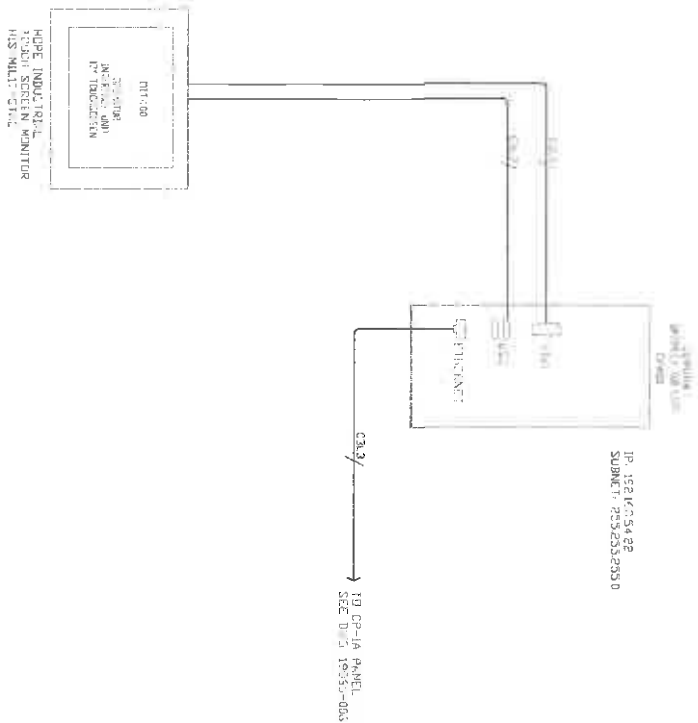


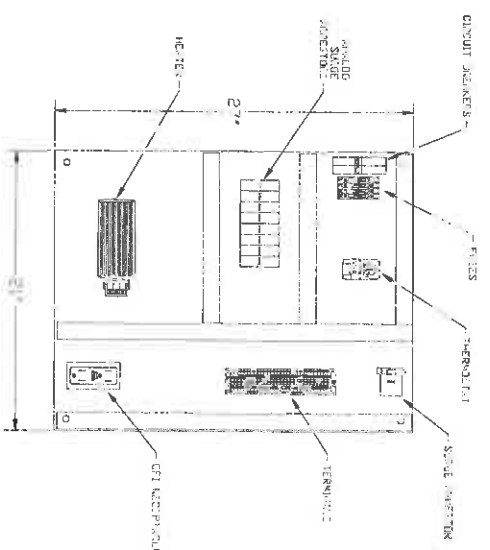
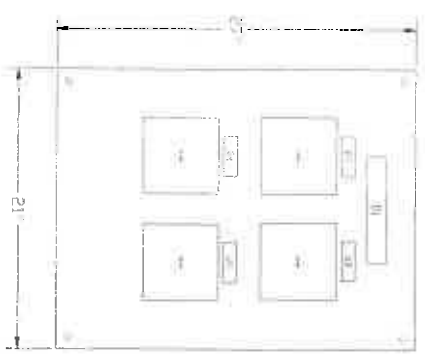
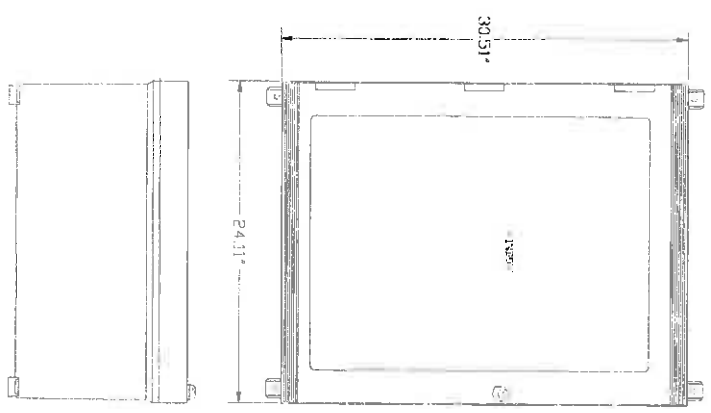
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SYSTEMS, INC.

DATE	1/1/03
DRAWN	1/1
CKD.	CK
ENGR.	CK
ASSEMB.	
SHEET	7 OF 50

PROJECT	QUANTITY	UNIT	PRICE	TOTAL
CLC ORDER PAPER (CP-CG)				
PLC I/O MODULE				

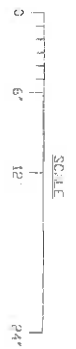
PROJ. NO.	11348
DWG. NO.	000B

[illegible]



NOTES:

- 1. ENCLOSURE IS 18 INCH TYPE 4X 1/2 ALL-METAL HEAVY DUTY 250000 PSI, WITH 1/2 INCH TYPICAL HATCH DOOR, AND 1/2 INCH TYPICAL DOOR.
- 2. 1 INCH OF FIRE-RESISTANT GLASS.
- 3. 1/2 INCH OF FIRE-RESISTANT GLASS.



ICS INSTRUMENT
DRAWINGS
1/12/2011

ICS INSTRUMENT
CONTROL SYSTEMS

DATE	DESCRIPTION
6/25/11	1.0.1.1
1.0.1.1	1.0.1.1
1.0.1.1	1.0.1.1
1.0.1.1	1.0.1.1

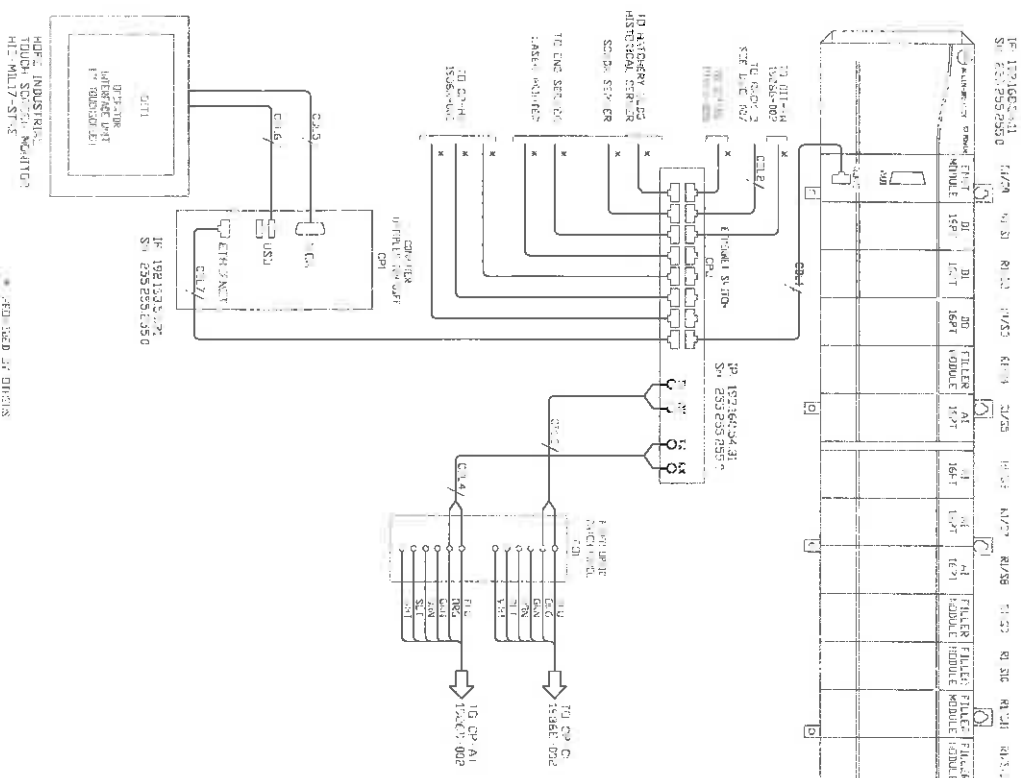
ICS HEALY-RUFF
Instrument Control Systems, Inc.
10000 100 Avenue Street, Suite 100, Houston, TX 77036
Tel: 713 555-5555 Fax: 713 555-5555 www.icshealy-ruff.com

DATE	DESCRIPTION
6/25/11	1.0.1.1
1.0.1.1	1.0.1.1
1.0.1.1	1.0.1.1
1.0.1.1	1.0.1.1

PROJECT	DESCRIPTION	PROJ. NO.
ED 1.0.1.1	ENCLOSURE DETAIL	10000-100-100-100
10000-100-100-100	10000-100-100-100	10000-100-100-100
10000-100-100-100	10000-100-100-100	10000-100-100-100

NAMEPLATE SCHEDULE					
TAG	LINE1	LINE2	LINE3	SIZE	REMARKS
01	CP-101	1.0.1.1	1.0.1.1	1.5x8	
02	1.0.1.1	1.0.1.1	1.0.1.1	1x3	
03	1.0.1.1	1.0.1.1	1.0.1.1	1x3	
04	1.0.1.1	1.0.1.1	1.0.1.1	1x3	
05	1.0.1.1	1.0.1.1	1.0.1.1	1.5x3	

NAMEPLATES ARE BLACK WITH WHITE LETTERS

[illegible]

NOT INSTALLED
BY THE
OWNER

ICS
INSTRUMENT
CONTROL SYSTEMS

DATE	REVISION DESCRIPTION
1/27/10	REV. FULL
1/28/11	REV. IN, T, L, L, D

ICS HEALY-RUFF
weather and building for healthy environments

Instrument Control Systems, Inc.
130015 1600 Avenida de los Solos del Porvenir, 440 8447
P.O. Box 100, 440 8447
Tel: (951) 555-4566 Fax: (951) 555-5177 www.icshealy-ruff.com

(C) 2014, CONFIDENTIAL, PROPRIETARY INFORMATION NOT TO BE DISCLOSED, ALL RIGHTS RESERVED BY INSTRUMENT CONTROL SYSTEMS, INC.	DATE	2/26/10
	DWN	
	CND	3C
	ENGR.	CW
	ASSEM.	
	SHEET	OF 3

PROJECT	PROD. NO.
QUINJAM (4-10) FILM - MICHIGAN	15638
REGULATION (OFF - 10)	DWG. NO.
P.L.O. 1/2 SCHEDULE 1, 2, 3	000

Technical drawing of a building facade, labeled "FAC. ELEVATION" and "SECTION". The drawing shows a side elevation of a building with a grid system. The grid is labeled with letters A through Z along the top and bottom. Dimensions are given in feet and inches. The drawing includes a roofline, windows, and doors. A section line is shown on the left side, labeled "SECTION".

[illegible]

		AS INSTALLED L. K. JAMES 1000 P. JAMES BLVD JAMESVILLE, KY 40021 502-962-1000 FAX 502-962-1001 1-877-	
DATE	12/3/00	REVISION DESCRIPTION	1. 1.001
	12/6/01		2. 1.002
			
HEALY RUFF AND ASSOCIATES CONTROL SYSTEMS Instrument Control Systems, Inc. 12005 NW Avenue North, Suite 200, Plymouth, MN 55441 Tel: (763) 584-9999 Fax: (763) 584-9977 www.icshealyruff.com			
(C) 2010 CONFIDENTIAL PROPRIETARY INFORMATION NOT TO BE DISCLOSED RIGHTS RESERVED BY INSTRUMENT CONTROL SYSTEMS, INC.			
DATE	6/12/10	PROJECT	QUANTON INDIAN RESERVE HATCHERY
DWG. NO.	10389	PROJ. NO.	10389
DWG. NO.	501		
SHEET	10 OF 14		



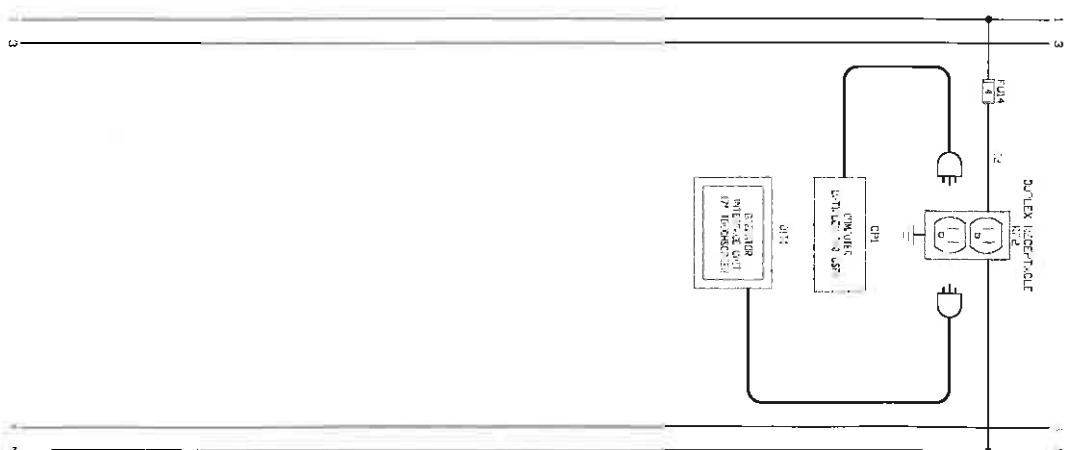
ICS HEAVY-DUTY <small>water and wastewater control solutions</small>	
Instrument Control Systems, Inc. <small>10000 E. 15th Avenue, Suite 100 • Denver, CO 80231 • Tel: 303.342-8787 • Fax: 303.342-8788 • www.icsinc.com</small>	
(2) 3/16" CONDUIT/VALVE (2) 1/2" CONDUIT/VALVE (2) 3/4" CONDUIT/VALVE (2) 1" CONDUIT/VALVE (2) 1 1/2" CONDUIT/VALVE (2) 2" CONDUIT/VALVE (2) 3" CONDUIT/VALVE (2) 4" CONDUIT/VALVE (2) 6" CONDUIT/VALVE (2) 8" CONDUIT/VALVE (2) 10" CONDUIT/VALVE (2) 12" CONDUIT/VALVE (2) 14" CONDUIT/VALVE (2) 16" CONDUIT/VALVE (2) 18" CONDUIT/VALVE (2) 20" CONDUIT/VALVE (2) 22" CONDUIT/VALVE (2) 24" CONDUIT/VALVE (2) 26" CONDUIT/VALVE (2) 28" CONDUIT/VALVE (2) 30" CONDUIT/VALVE (2) 32" CONDUIT/VALVE (2) 34" CONDUIT/VALVE (2) 36" CONDUIT/VALVE (2) 38" CONDUIT/VALVE (2) 40" CONDUIT/VALVE (2) 42" CONDUIT/VALVE (2) 44" CONDUIT/VALVE (2) 46" CONDUIT/VALVE (2) 48" CONDUIT/VALVE (2) 50" CONDUIT/VALVE (2) 52" CONDUIT/VALVE (2) 54" CONDUIT/VALVE (2) 56" CONDUIT/VALVE (2) 58" CONDUIT/VALVE (2) 60" CONDUIT/VALVE (2) 62" CONDUIT/VALVE (2) 64" CONDUIT/VALVE (2) 66" CONDUIT/VALVE (2) 68" CONDUIT/VALVE (2) 70" CONDUIT/VALVE (2) 72" CONDUIT/VALVE (2) 74" CONDUIT/VALVE (2) 76" CONDUIT/VALVE (2) 78" CONDUIT/VALVE (2) 80" CONDUIT/VALVE (2) 82" CONDUIT/VALVE (2) 84" CONDUIT/VALVE (2) 86" CONDUIT/VALVE (2) 88" CONDUIT/VALVE (2) 90" CONDUIT/VALVE (2) 92" CONDUIT/VALVE (2) 94" CONDUIT/VALVE (2) 96" CONDUIT/VALVE (2) 98" CONDUIT/VALVE (2) 100" CONDUIT/VALVE (2) 102" CONDUIT/VALVE (2) 104" CONDUIT/VALVE (2) 106" CONDUIT/VALVE (2) 108" CONDUIT/VALVE (2) 110" CONDUIT/VALVE (2) 112" CONDUIT/VALVE (2) 114" CONDUIT/VALVE (2) 116" CONDUIT/VALVE (2) 118" CONDUIT/VALVE (2) 120" CONDUIT/VALVE (2) 122" CONDUIT/VALVE (2) 124" CONDUIT/VALVE (2) 126" CONDUIT/VALVE (2) 128" CONDUIT/VALVE (2) 130" CONDUIT/VALVE (2) 132" CONDUIT/VALVE (2) 134" CONDUIT/VALVE (2) 136" CONDUIT/VALVE (2) 138" CONDUIT/VALVE (2) 140" CONDUIT/VALVE (2) 142" CONDUIT/VALVE (2) 144" CONDUIT/VALVE (2) 146" CONDUIT/VALVE (2) 148" CONDUIT/VALVE (2) 150" CONDUIT/VALVE (2) 152" CONDUIT/VALVE (2) 154" CONDUIT/VALVE (2) 156" CONDUIT/VALVE (2) 158" CONDUIT/VALVE (2) 160" CONDUIT/VALVE (2) 162" CONDUIT/VALVE (2) 164" CONDUIT/VALVE (2) 166" CONDUIT/VALVE (2) 168" CONDUIT/VALVE (2) 170" CONDUIT/VALVE (2) 172" CONDUIT/VALVE (2) 174" CONDUIT/VALVE (2) 176" CONDUIT/VALVE (2) 178" CONDUIT/VALVE (2) 180" CONDUIT/VALVE (2) 182" CONDUIT/VALVE (2) 184" CONDUIT/VALVE (2) 186" CONDUIT/VALVE (2) 188" CONDUIT/VALVE (2) 190" CONDUIT/VALVE (2) 192" CONDUIT/VALVE (2) 194" CONDUIT/VALVE (2) 196" CONDUIT/VALVE (2) 198" CONDUIT/VALVE (2) 200" CONDUIT/VALVE (2) 202" CONDUIT/VALVE (2) 204" CONDUIT/VALVE (2) 206" CONDUIT/VALVE (2) 208" CONDUIT/VALVE (2) 210" CONDUIT/VALVE (2) 212" CONDUIT/VALVE (2) 214" CONDUIT/VALVE (2) 216" CONDUIT/VALVE (2) 218" CONDUIT/VALVE (2) 220" CONDUIT/VALVE (2) 222" CONDUIT/VALVE (2) 224" CONDUIT/VALVE (2) 226" CONDUIT/VALVE (2) 228" CONDUIT/VALVE (2) 230" CONDUIT/VALVE (2) 232" CONDUIT/VALVE (2) 234" CONDUIT/VALVE (2) 236" CONDUIT/VALVE (2) 238" CONDUIT/VALVE (2) 240" CONDUIT/VALVE (2) 242" CONDUIT/VALVE (2) 244" CONDUIT/VALVE (2) 246" CONDUIT/VALVE (2) 248" CONDUIT/VALVE (2) 250" CONDUIT/VALVE (2) 252" CONDUIT/VALVE (2) 254" CONDUIT/VALVE (2) 256" CONDUIT/VALVE (2) 258" CONDUIT/VALVE (2) 260" CONDUIT/VALVE (2) 262" CONDUIT/VALVE (2) 264" CONDUIT/VALVE (2) 266" CONDUIT/VALVE (2) 268" CONDUIT/VALVE (2) 270" CONDUIT/VALVE (2) 272" CONDUIT/VALVE (2) 274" CONDUIT/VALVE (2) 276" CONDUIT/VALVE (2) 278" CONDUIT/VALVE (2) 280" CONDUIT/VALVE (2) 282" CONDUIT/VALVE (2) 284" CONDUIT/VALVE (2) 286" CONDUIT/VALVE (2) 288" CONDUIT/VALVE (2) 290" CONDUIT/VALVE (2) 292" CONDUIT/VALVE (2) 294" CONDUIT/VALVE (2) 296" CONDUIT/VALVE (2) 298" CONDUIT/VALVE (2) 300" CONDUIT/VALVE (2) 302" CONDUIT/VALVE (2) 304" CONDUIT/VALVE (2) 306" CONDUIT/VALVE (2) 308" CONDUIT/VALVE (2) 310" CONDUIT/VALVE (2) 312" CONDUIT/VALVE (2) 314" CONDUIT/VALVE (2) 316" CONDUIT/VALVE (2) 318" CONDUIT/VALVE (2) 320" CONDUIT/VALVE (2) 322" CONDUIT/VALVE (2) 324" CONDUIT/VALVE (2) 326" CONDUIT/VALVE (2) 328" CONDUIT/VALVE (2) 330" CONDUIT/VALVE (2) 332" CONDUIT/VALVE (2) 334" CONDUIT/VALVE (2) 336" CONDUIT/VALVE (2) 338" CONDUIT/VALVE (2) 340" CONDUIT/VALVE (2) 342" CONDUIT/VALVE (2) 344" CONDUIT/VALVE (2) 346" CONDUIT/VALVE (2) 348" CONDUIT/VALVE (2) 350" CONDUIT/VALVE (2) 352" CONDUIT/VALVE (2) 354" CONDUIT/VALVE (2) 356" CONDUIT/VALVE (2) 358" CONDUIT/VALVE (2) 360" CONDUIT/VALVE (2) 362" CONDUIT/VALVE (2) 364" CONDUIT/VALVE (2) 366" CONDUIT/VALVE (2) 368" CONDUIT/VALVE (2) 370" CONDUIT/VALVE (2) 372" CONDUIT/VALVE (2) 374" CONDUIT/VALVE (2) 376" CONDUIT/VALVE (2) 378" CONDUIT/VALVE (2) 380" CONDUIT/VALVE (2) 382" CONDUIT/VALVE (2) 384" CONDUIT/VALVE (2) 386" CONDUIT/VALVE (2) 388" CONDUIT/VALVE (2) 390" CONDUIT/VALVE (2) 392" CONDUIT/VALVE (2) 394" CONDUIT/VALVE (2) 396" CONDUIT/VALVE (2) 398" CONDUIT/VALVE (2) 400" CONDUIT/VALVE (2) 402" CONDUIT/VALVE (2) 404" CONDUIT/VALVE (2) 406" CONDUIT/VALVE (2) 408" CONDUIT/VALVE (2) 410" CONDUIT/VALVE (2) 412" CONDUIT/VALVE (2) 414" CONDUIT/VALVE (2) 416" CONDUIT/VALVE (2) 418" CONDUIT/VALVE (2) 420" CONDUIT/VALVE (2) 422" CONDUIT/VALVE (2) 424" CONDUIT/VALVE (2) 426" CONDUIT/VALVE (2) 42	

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PROPRIETARY INFORMATION
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INSTRUMENT CONTROL
SYSTEMS, INC.

DATE	6/24/10
DWN	JL
XDO	CR
ENGR.	CVS
ASSEM	
SHEET	1 of 3

PROJECT	QUINCY RIVER BIRTH HATCHERY	PROJ. NO.	13408
	IN SUBSIDIZED AREA (P-11)		
	24 OUTLET-NETWORK	DRG. NO.	13408
	CONTROL PIER WING		

CP-I.1.1



ICS
INSTRUMENT
CONTROL SYSTEMS

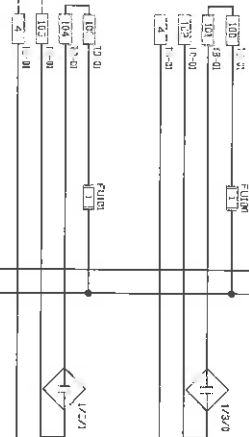
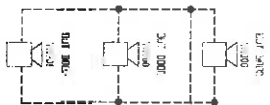
ICS HEALY-RUFF
water and wastewater control solutions

Instrument Control Systems, Inc.
1305 316 Avenue North, Suite 100, Plymouth, MI 48178
PH: (734) 554-5548 FAX: (734) 554-2177 WWW: www.icsmwp.com

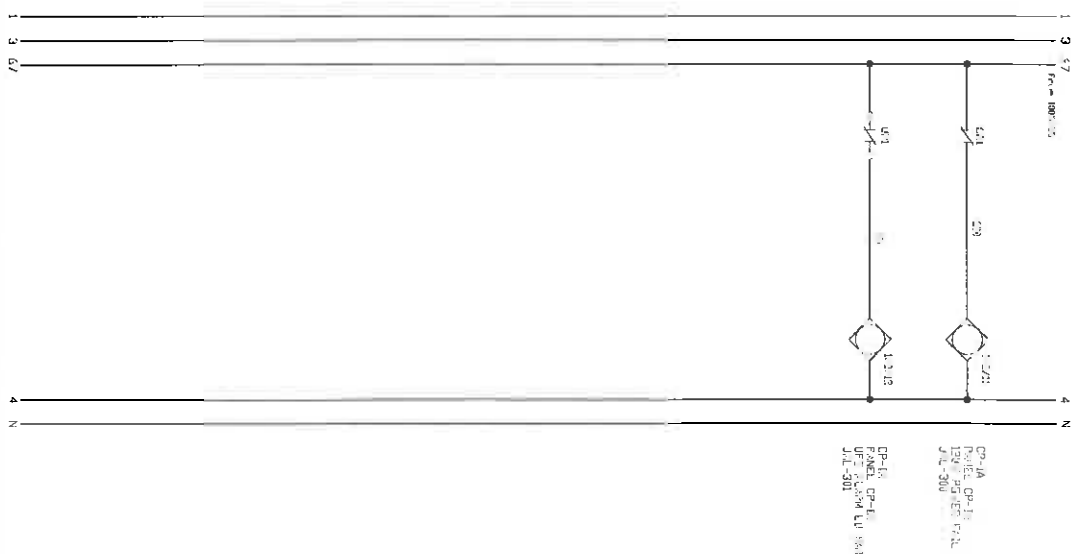
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PROJECT	QUINCY POWER FISH HATCHERY IN COOPERATION WITH THE U.S. FISH & WILDLIFE SERVICE 24 SOUTHWEST CORNER OF THE POWER PLANT
----------------	--

PROJ. NO.	10662
DWG. NO.	



CP-1,



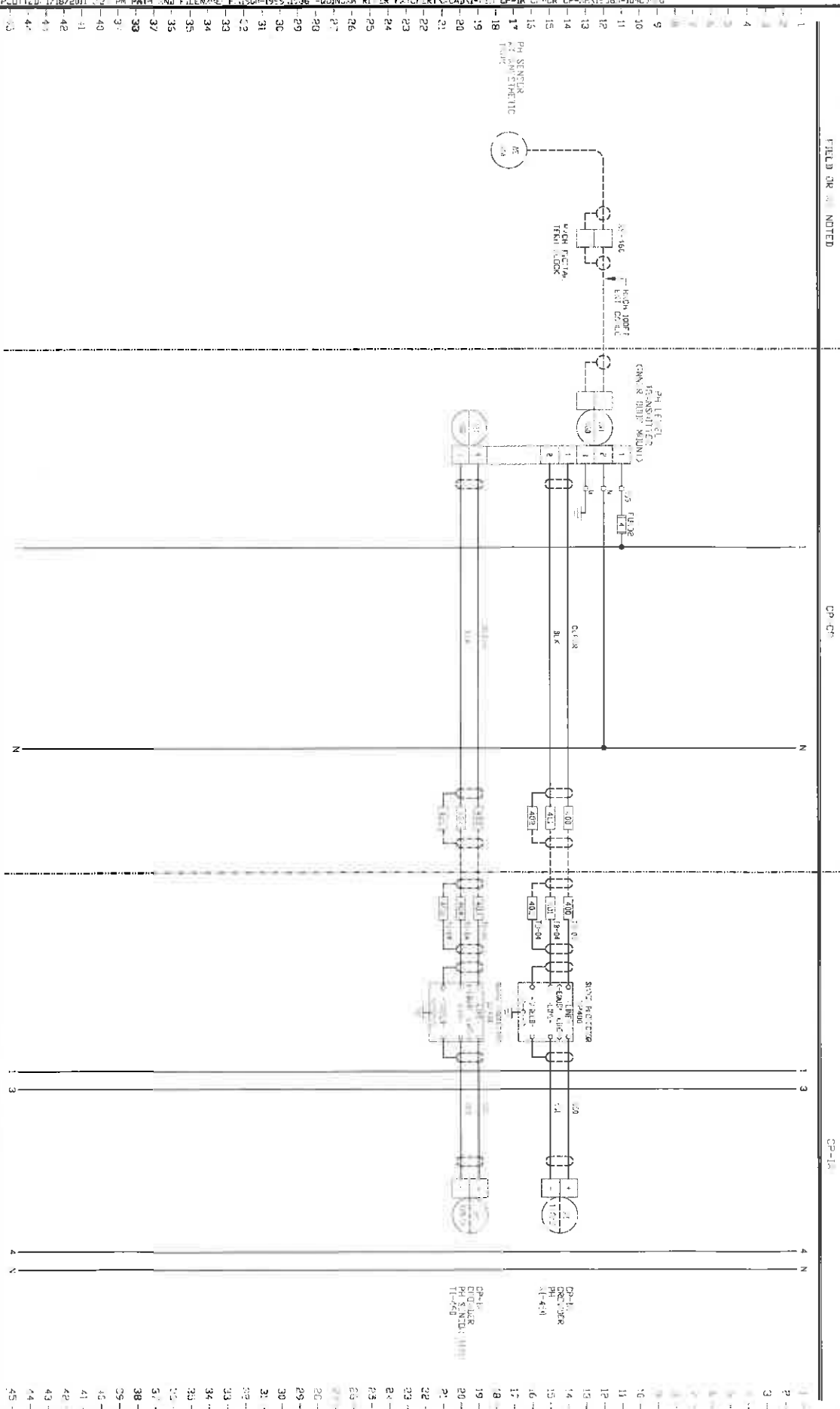
ICS INSTRUMENT CONTROL SYSTEMS

ICS HEALY-RUFF
water and wastewater control solutions

Instrument Control Systems, Inc.
13006 West Avenue Road, Suite 100, Plymouth, MI 48170
Ph: (734) 535-0099 Fax: (734) 535-7177 www.ics-healy.com

PROJECT: QUINCY POWER PLANT MODERNIZATION
INJECTION WATER (CP-1)
PANEL RAFTERS
CENTRAL POWER BUILDING

PROJ. NO.	4003
DWG. NO.	42



AS INSTALLED
DRAWINGS
1505-1959-105-AND
30-AND-40-105-AND
1/2/11

ICS
INSTRUMENT
CONTROL SYSTEMS

DATE	REVISION DESCRIPTION
6/7/70	500
1/7/71	500
	500
	500
	500

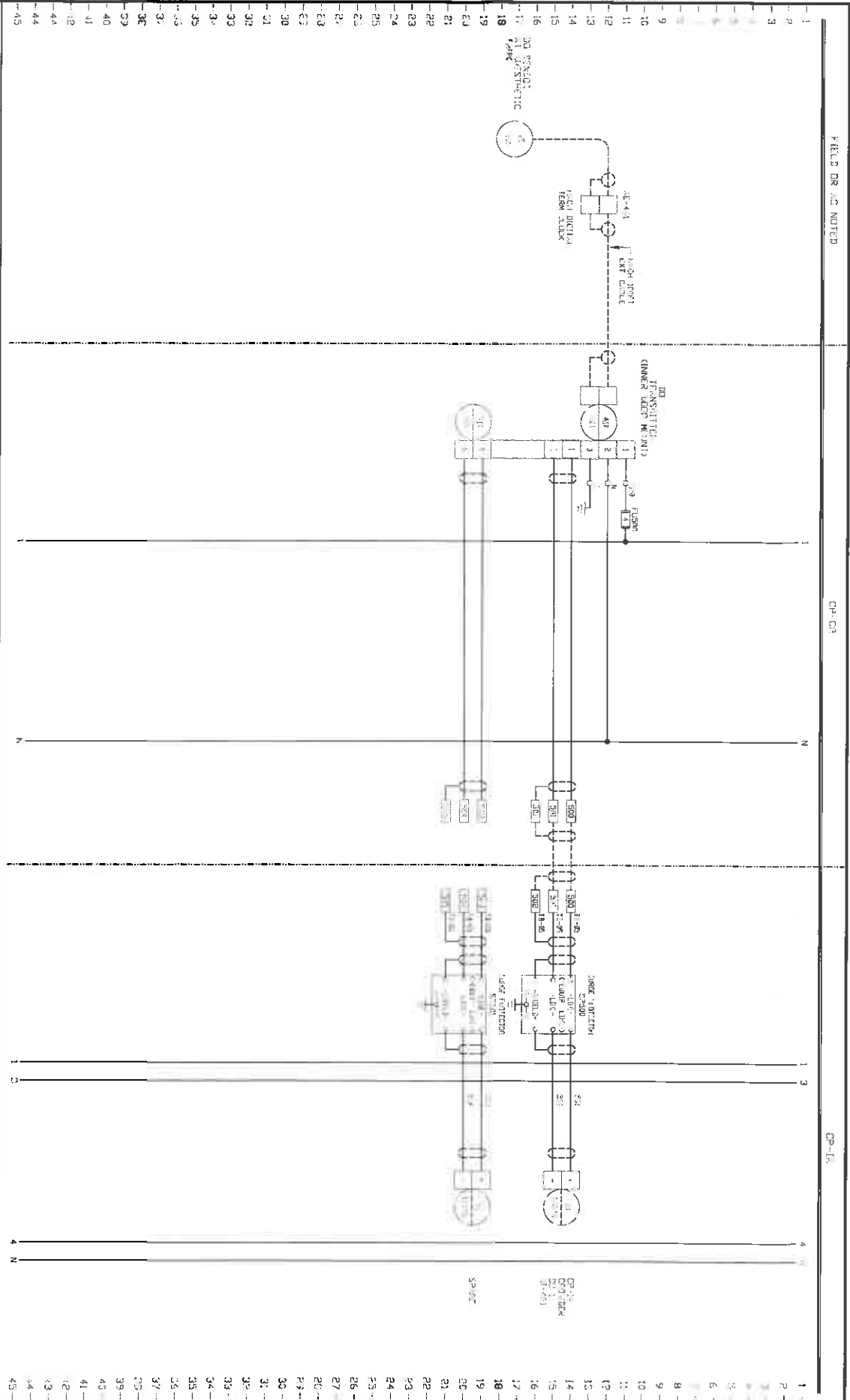
ICS HEAT-RUFF
Instrument Control Systems, Inc.
1505 5th Avenue South, Suite 100, Knoxville, TN 37911
Rev (7/0) 25-000 Rev (7/0) 25-011 www.icsheatreff.com

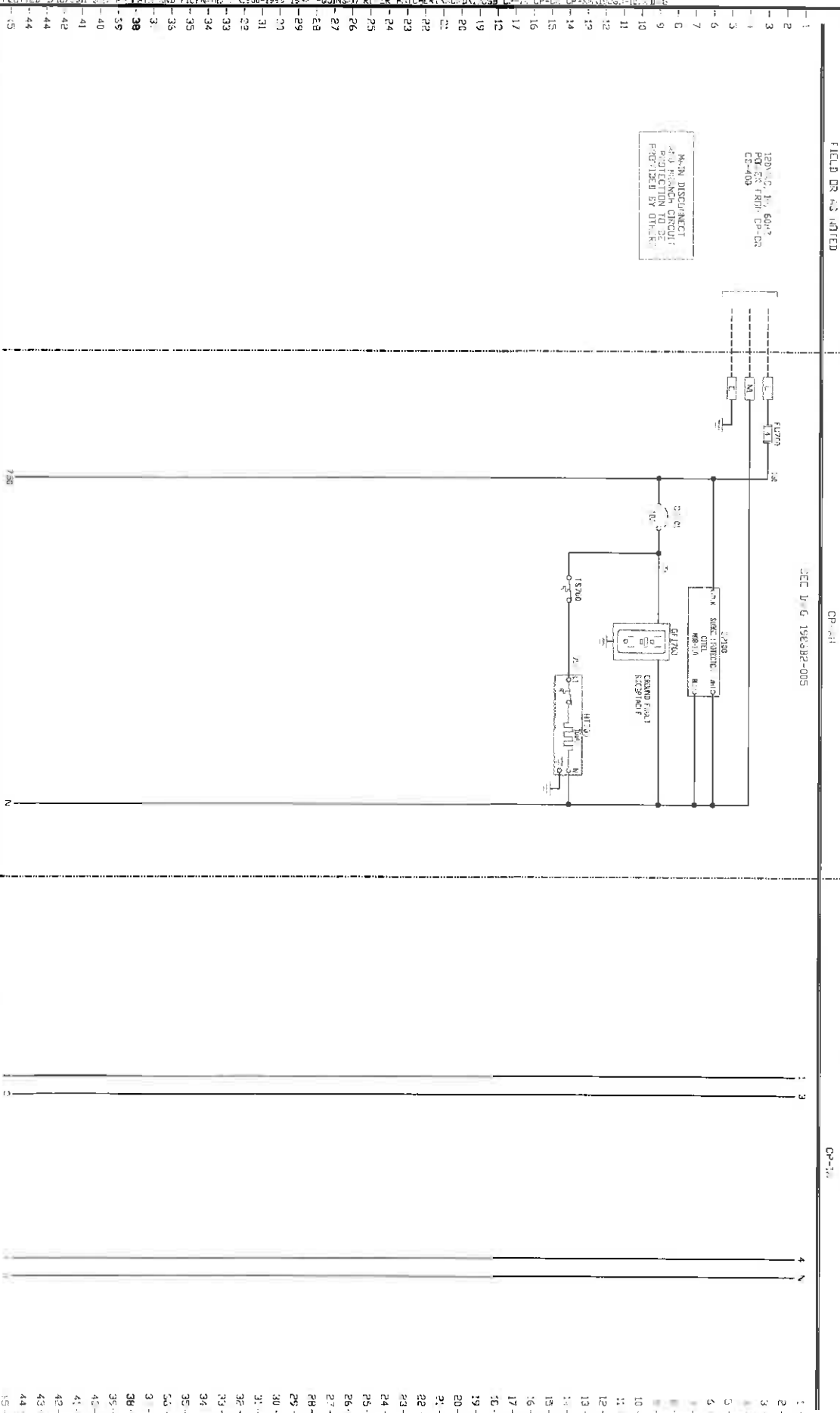
IC 200A COMPENSATION
PROPORTIONAL-INTEGRATION
NOT TO BE DISCLOSED, ALL
INSTRUMENT CONTROL
SYSTEMS, INC.

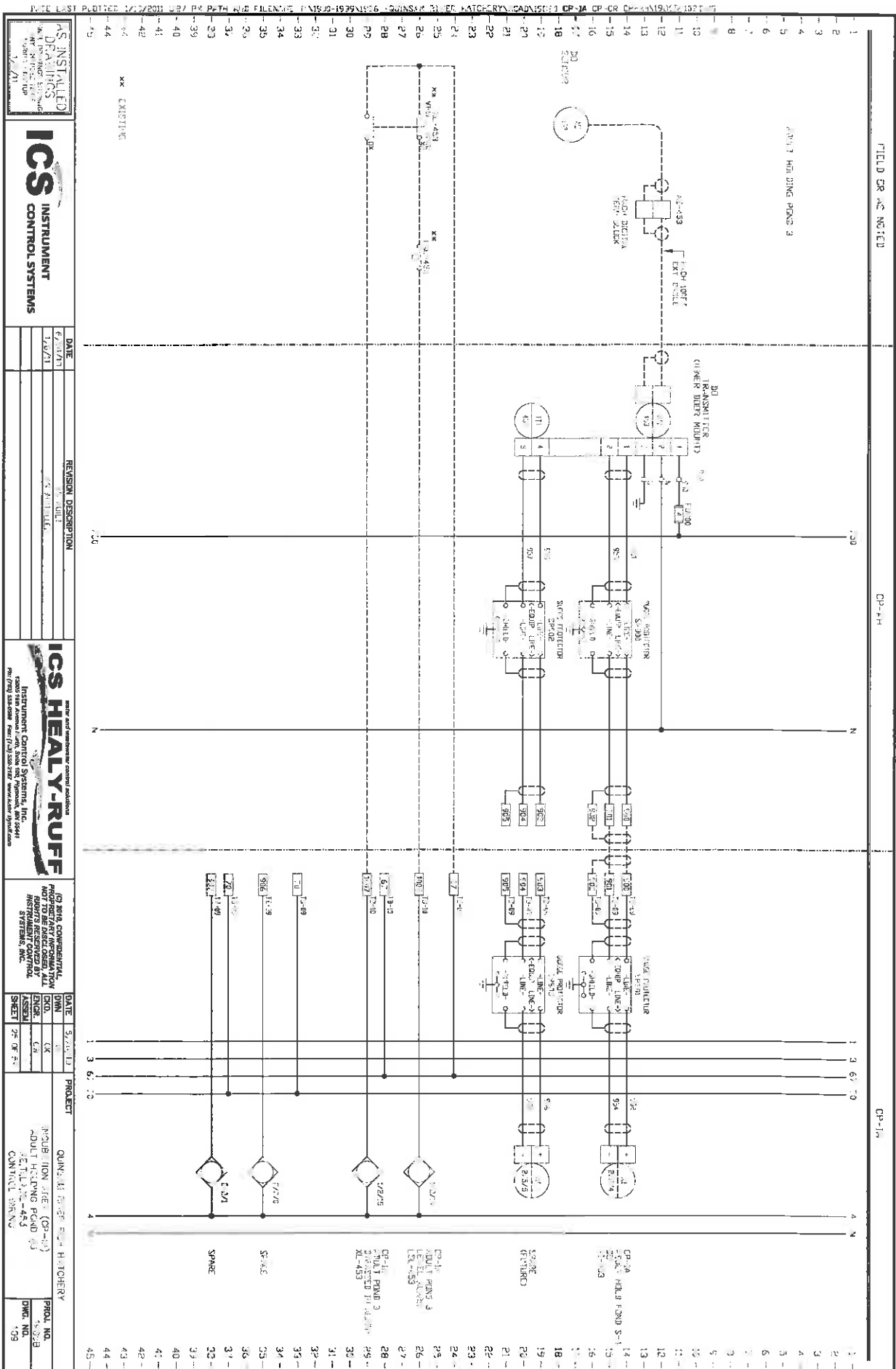
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7/2/10	7/2/10	7/2/10
7/2/10	7/2/10	7/2/10
7/2/10	7/2/10	7/2/10
7/2/10	7/2/10	7/2/10

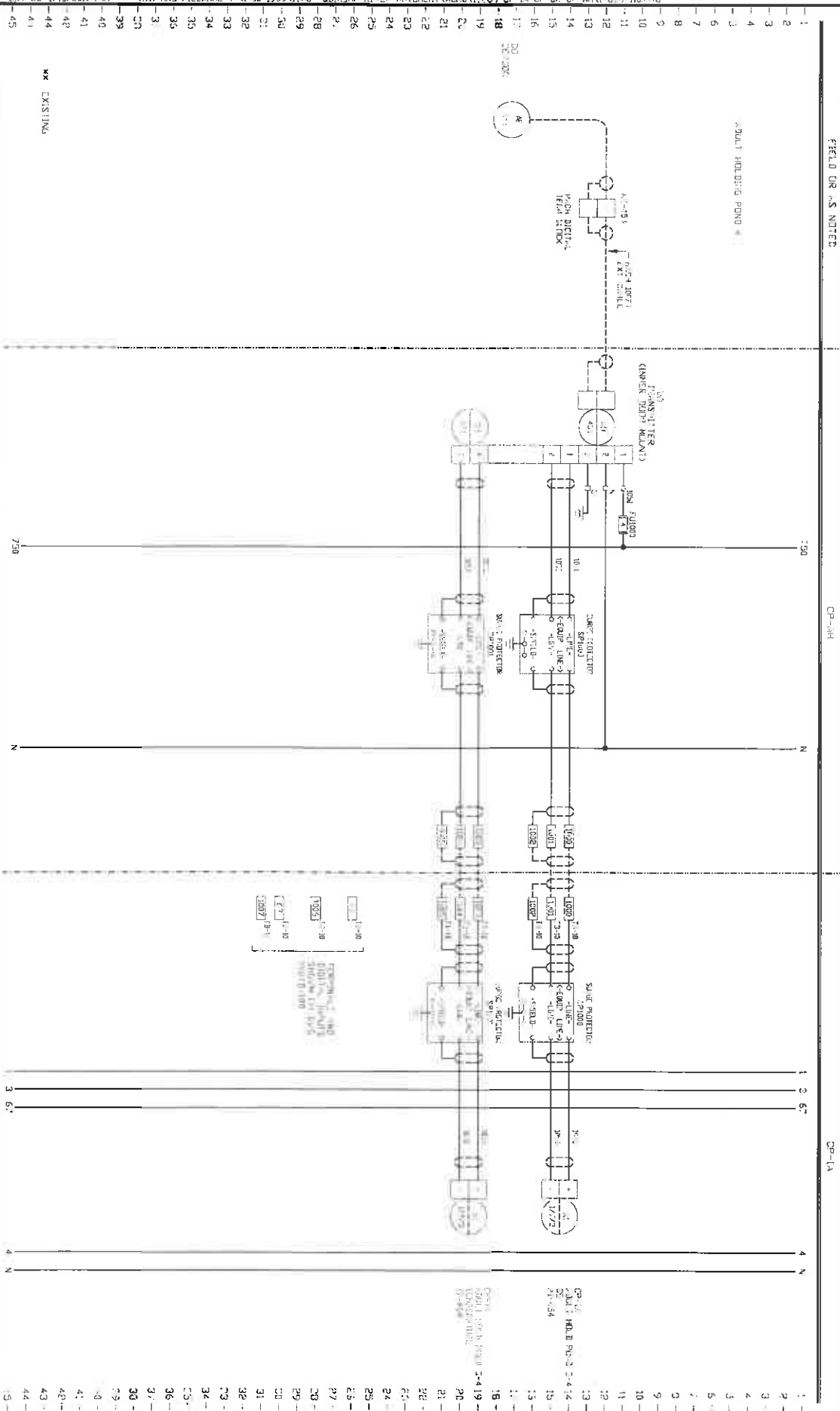
PROJECT: QUINCY RIVER FISH HATCHERY
INCL. 1000 (SEE 1000-105)
CONCRETE DESIGN 02 31
CONCRETE 28-02

PROJ. NO.	DWG. NO.
1505-1959-105-AND	30-AND-40-105-AND
1505-1959-105-AND	30-AND-40-105-AND
1505-1959-105-AND	30-AND-40-105-AND
1505-1959-105-AND	30-AND-40-105-AND



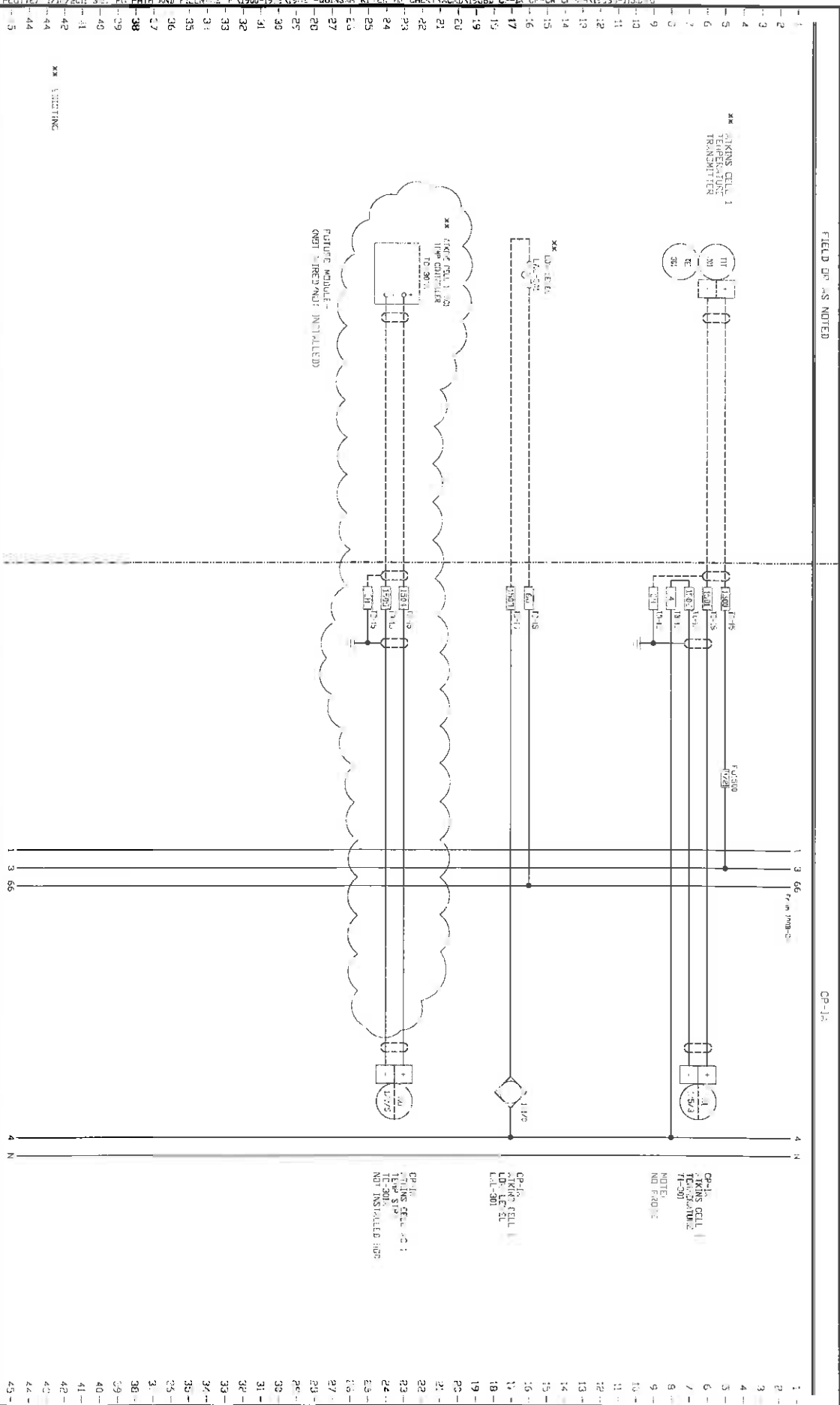






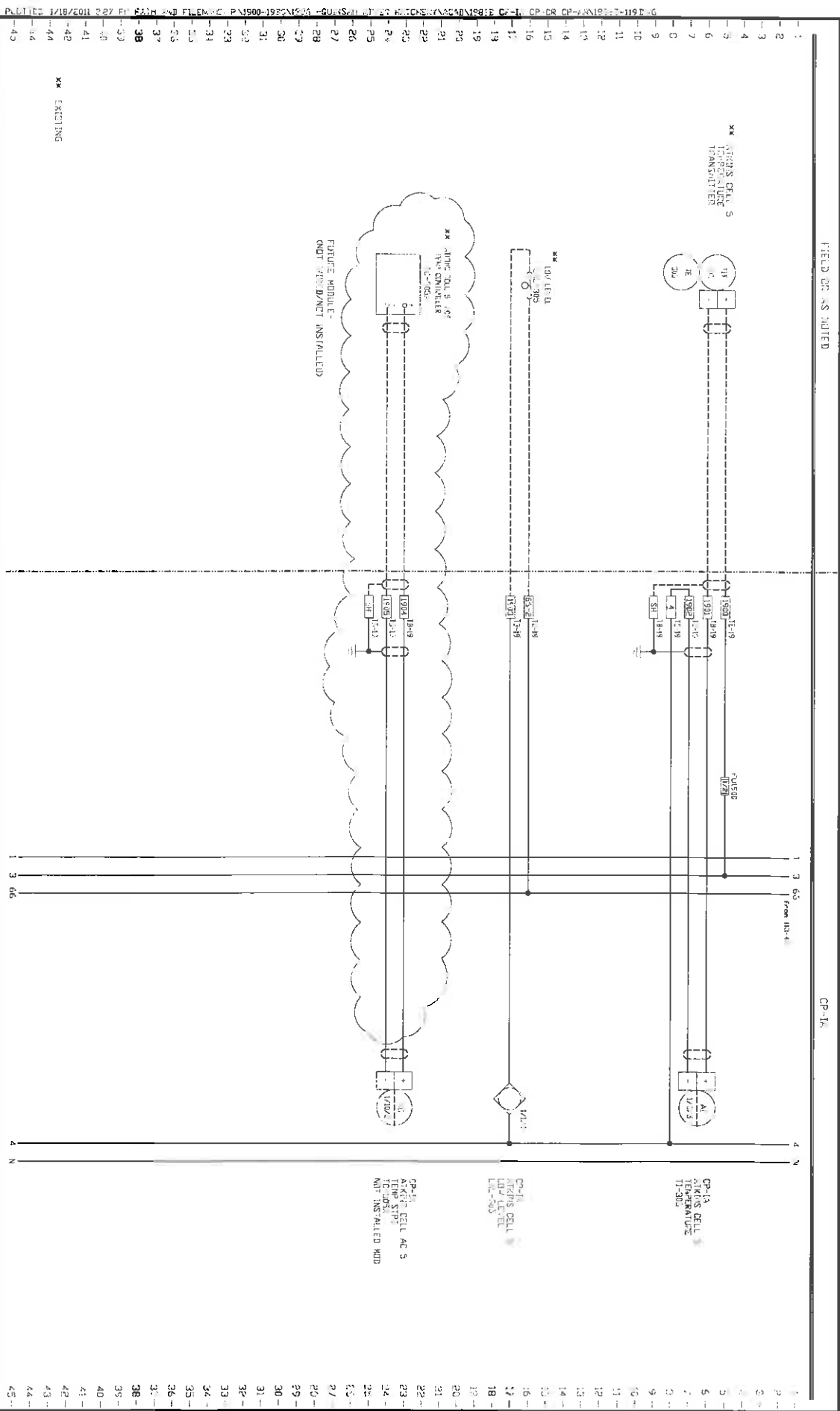


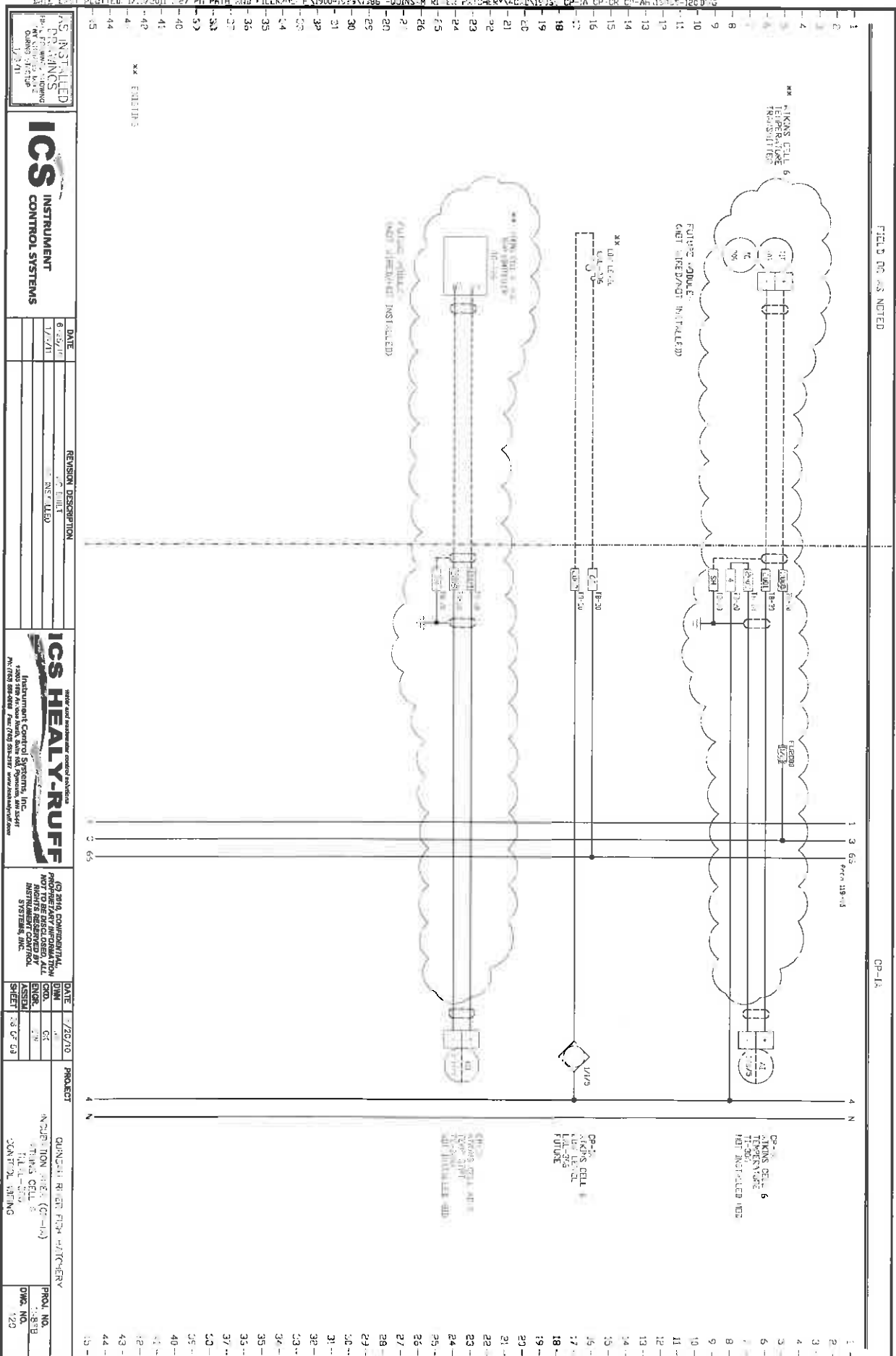
PROD. NO.	70863
DWG. NO.	115

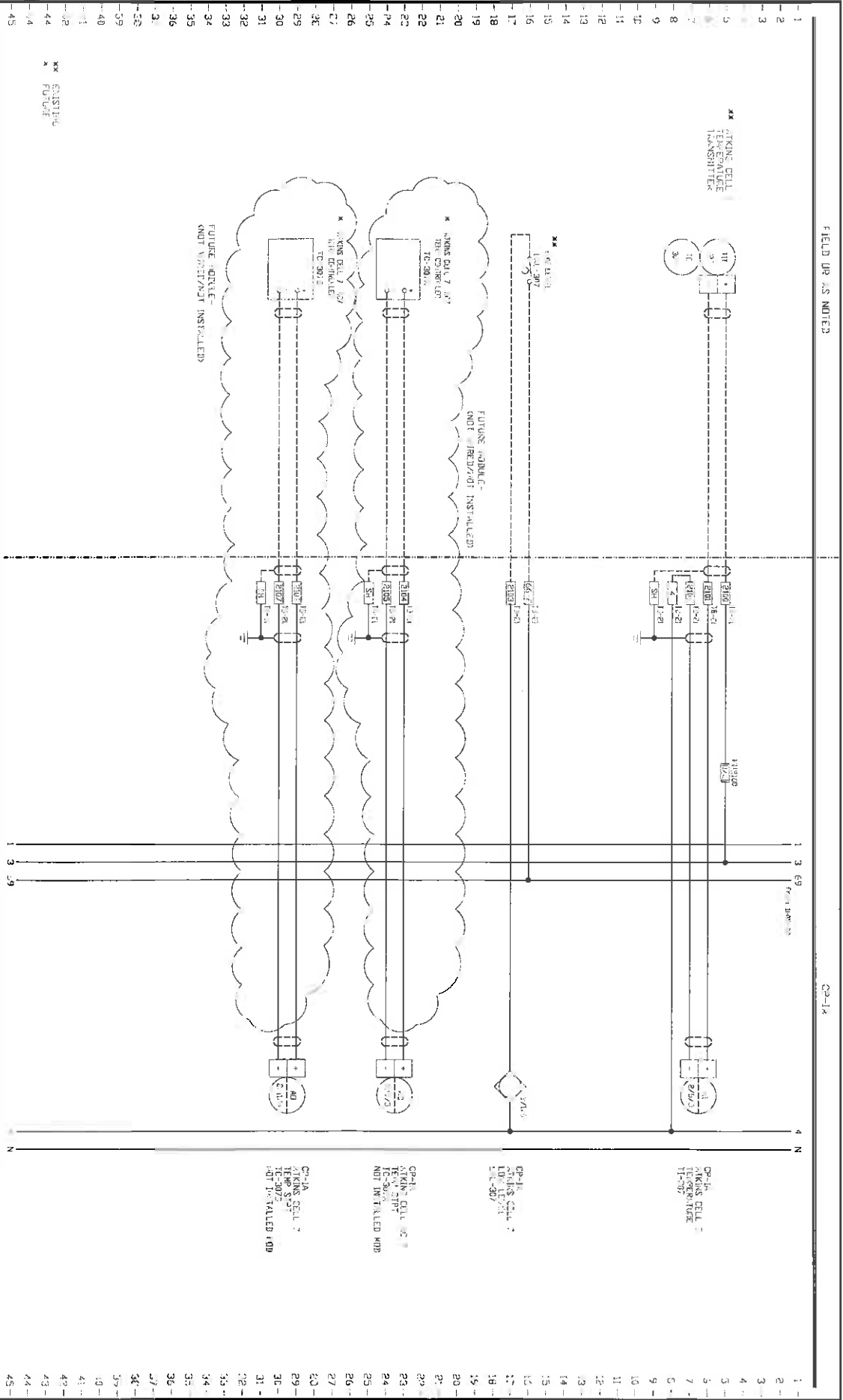


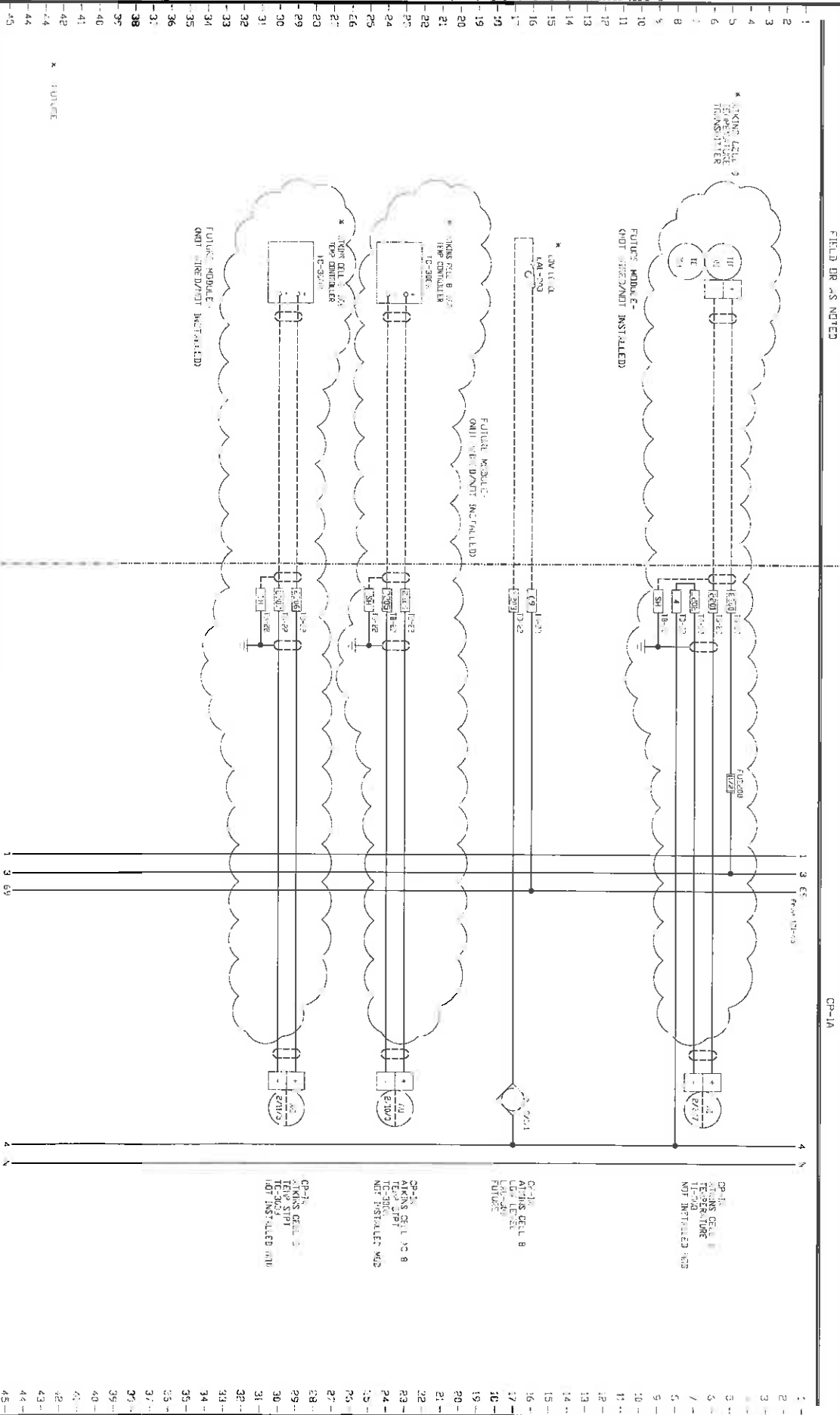


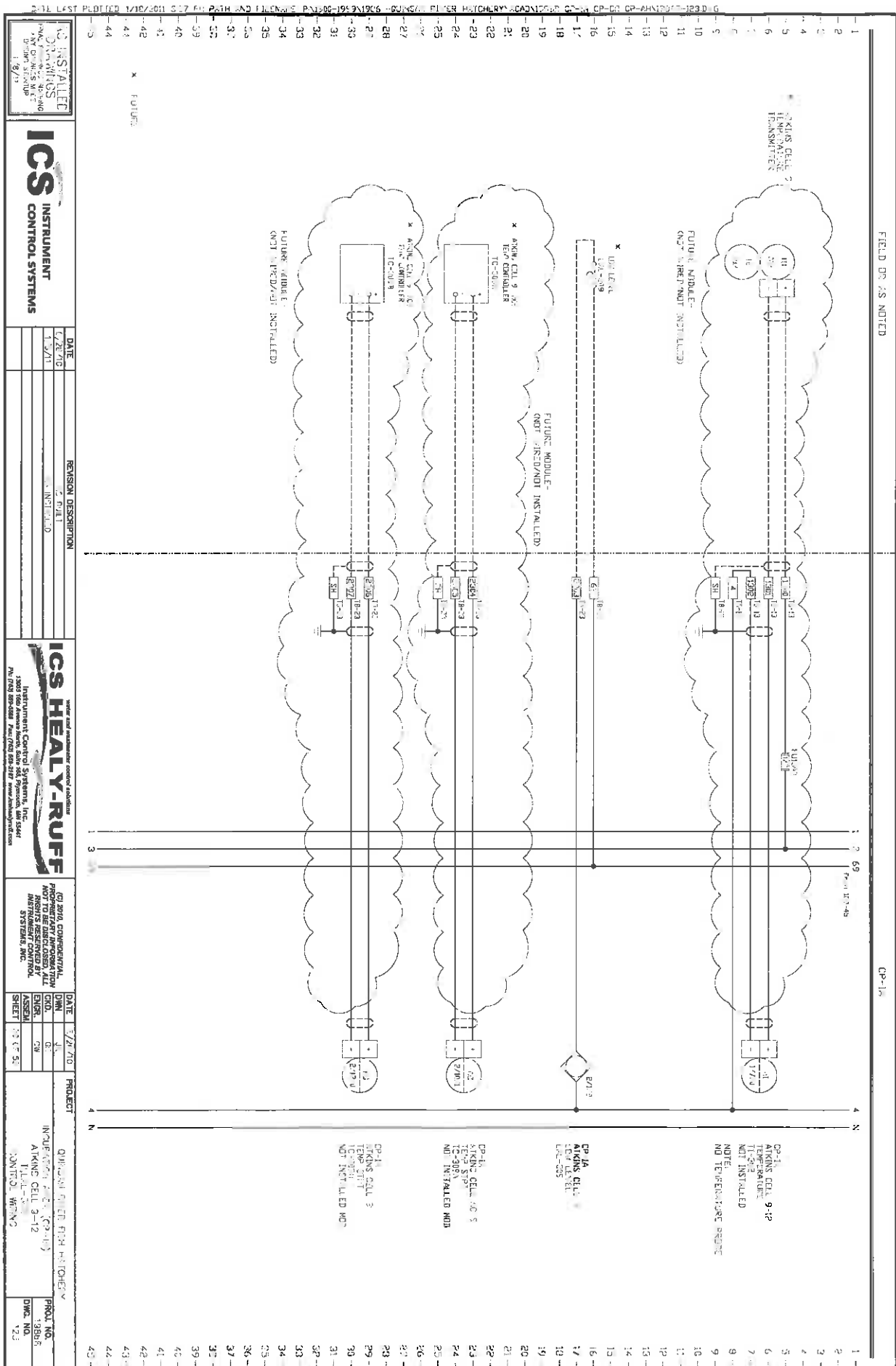
PROJECT	
QUANTITIES FOR FISH HATCHERY	
INSTRUMENTATION (CO-A)	PRG. NO.
PLANT NO. 5	10-53
PLANT NO. 5	
CONTROL WRENCH	DWG. NO.
	119





[illegible]







NOT INSTALLED
DRAWINGS
DATE: 1/10/2011
BY: J. B. J.

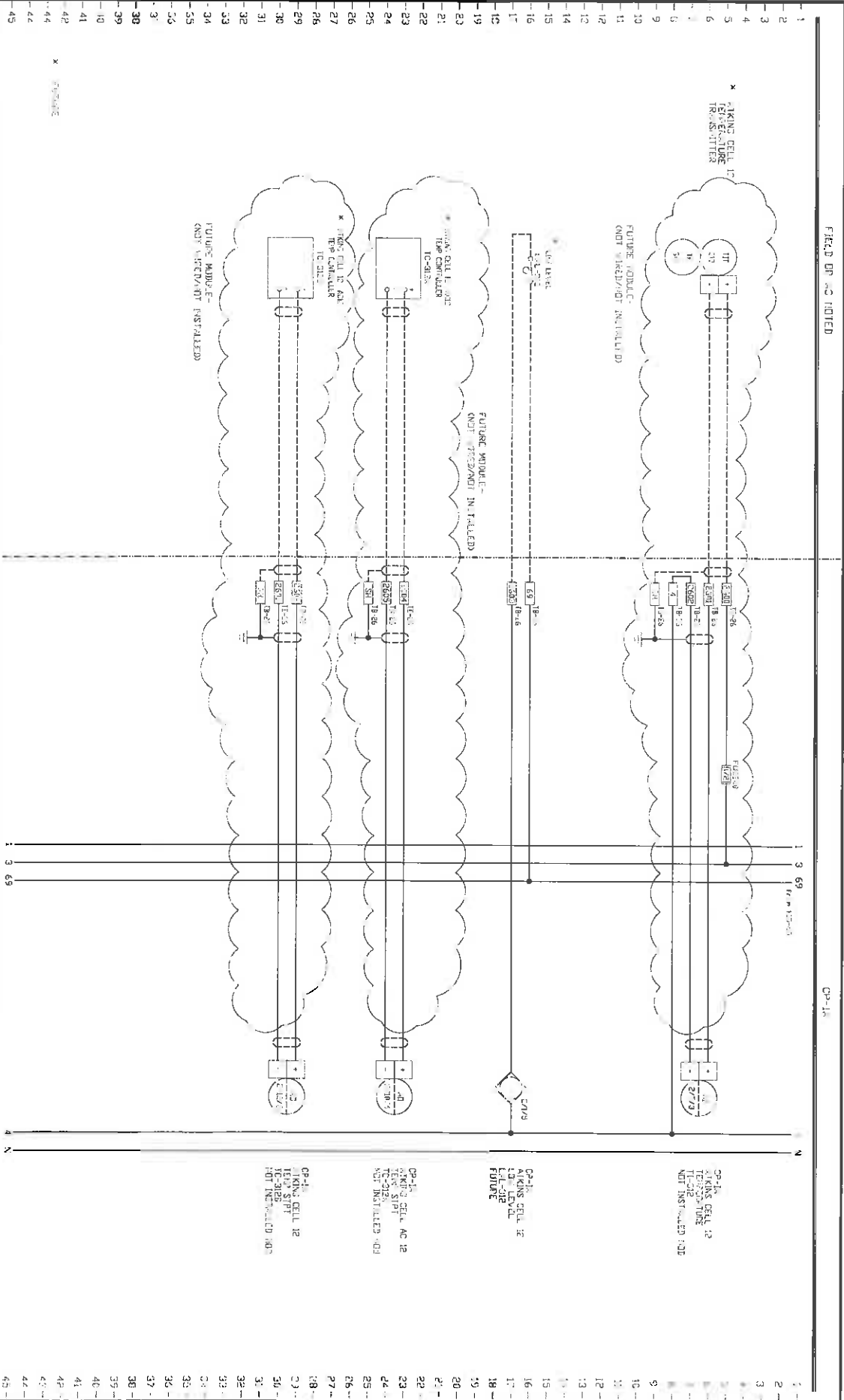
ICS INSTRUMENT
CONTROL SYSTEMS

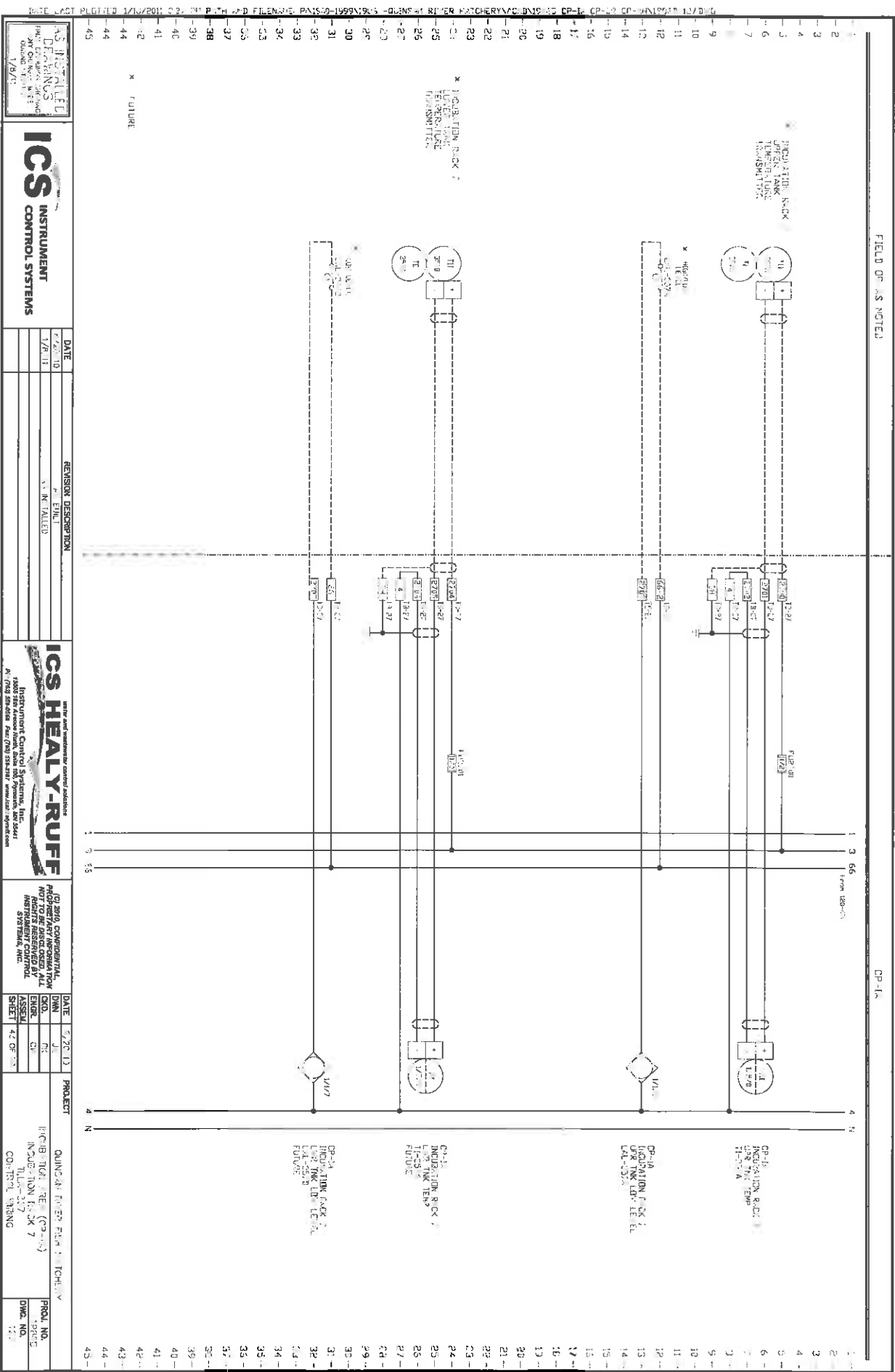
DATE	REVISION DESCRIPTION
6/24/70	3.000
1/1/71	6.7 INSTALLED

ICS HEALY-RUFF
Instrument Control Systems, Inc.
12000 1st Avenue South, Suite 200, Greenwood, MS 38901
601-735-0000 Fax: 601-735-0107 www.icshealy-ruff.com

DATE	DATE	PROJECT
6/24/70	6/24/70	QUINCY RIVER FISH HATCHERY
1/1/71	1/1/71	INDUSTRIAL HATCHERY (CP-1A)
		INDUSTRIAL HATCHERY (CP-1A)
		INDUSTRIAL HATCHERY (CP-1A)

DATE	DATE	PROJECT
6/24/70	6/24/70	QUINCY RIVER FISH HATCHERY
1/1/71	1/1/71	INDUSTRIAL HATCHERY (CP-1A)
		INDUSTRIAL HATCHERY (CP-1A)
		INDUSTRIAL HATCHERY (CP-1A)





AS NOTED
DRAWING
DATE: 1/8/11
BY: [Signature]

ICS
INSTRUMENT
CONTROL SYSTEMS

DATE	REVISION DESCRIPTION
1/8/11	1. ENE
	2. B. TALLD

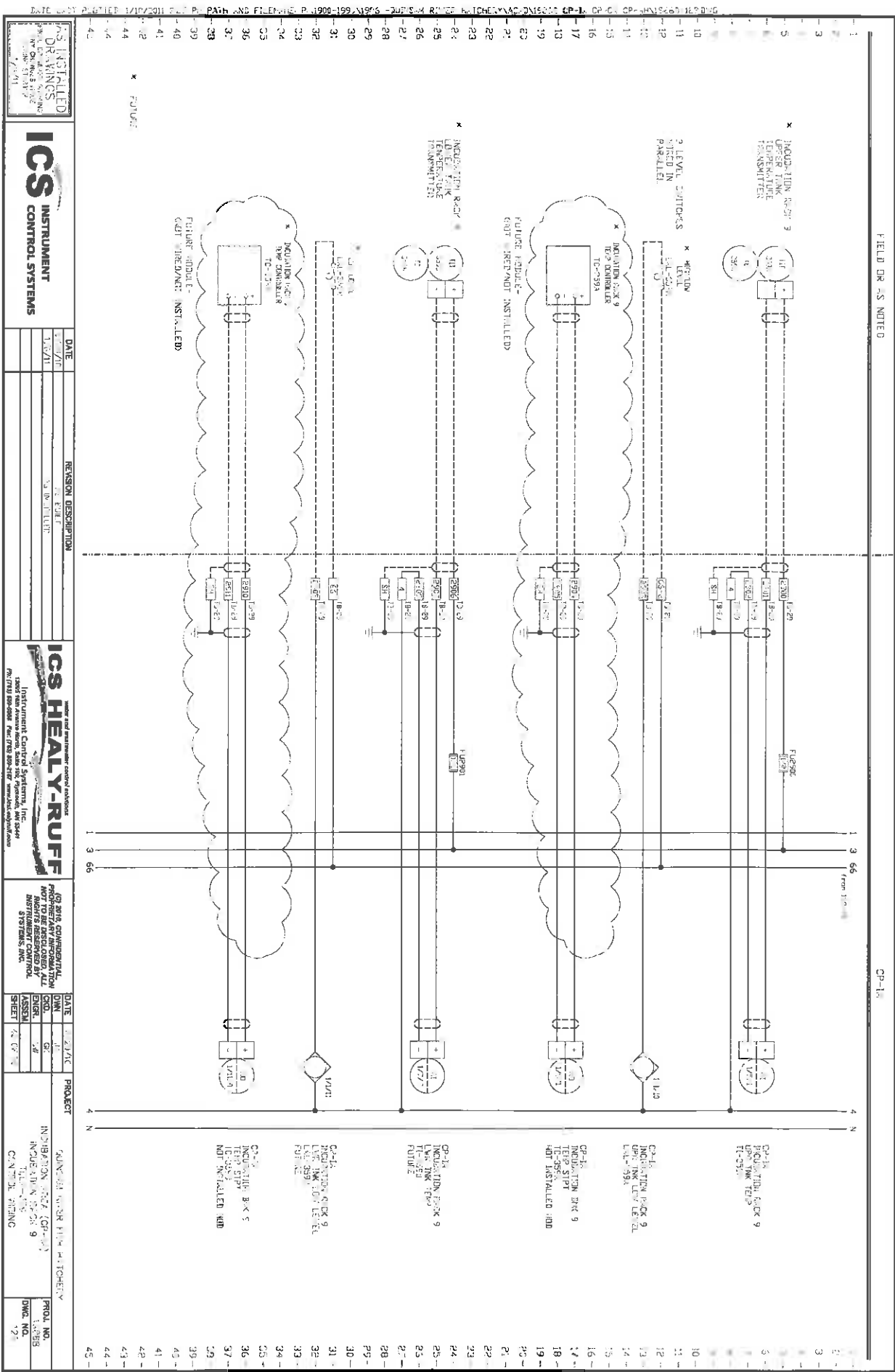
ICS HEALY-RUFF
INSTRUMENT CONTROL SYSTEMS, INC.
18000 180 Avenue Road, Suite 100, Appleton, WI 54911
P: (762) 559-0000 Fax: (762) 559-2297 www.ics-healy-ruff.com

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INSTRUMENT CONTROL
SYSTEMS, INC.

DATE	BY	CHK	APP
1/8/11	U	U	U
	U	U	U
	U	U	U

PROJECT: QUINCY POWER PLANT
EQUIPMENT: CP-1A
INSTRUMENT: LIQUIDATION RACK 1
CONTROL: TEMPERATURE TRANSMITTER
PROJ. NO.: 110-117
DWG. NO.: 110-117-1

[illegible]



NOTED
DRAWINGS
DATE 1/1/71
BY J. H. HARRIS

ICS
INSTRUMENT
CONTROL SYSTEMS

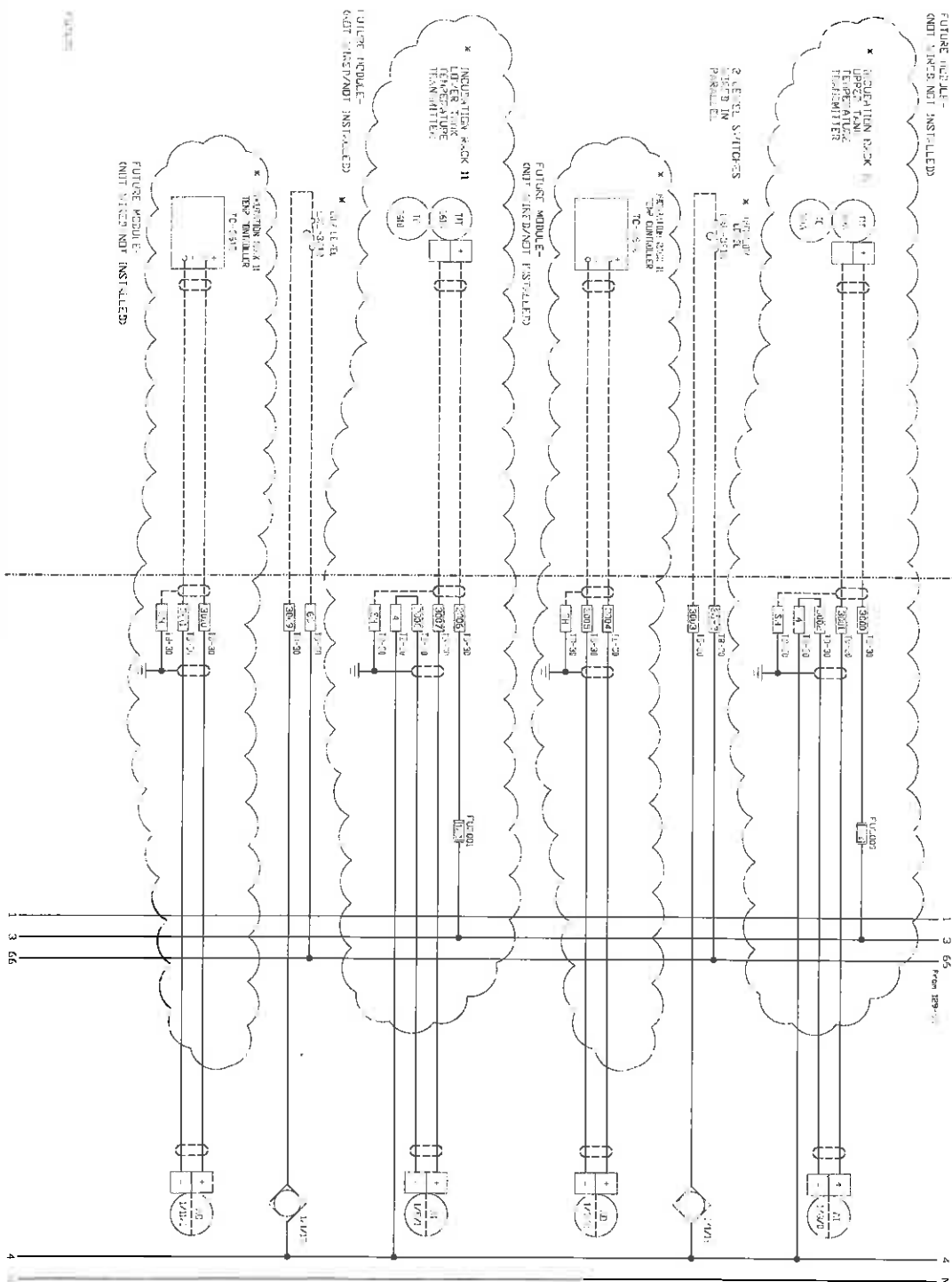
DATE	REVISION DESCRIPTION
1/1/71	1.0 INITIAL

ICS HEAT-RUFF
Instrument Control Systems, Inc.
13005 West Avenue, Suite 100, Phoenix, AZ 85041
PH: 602-998-0000 FAX: 602-998-0001 www.ics-control.com

FOR 2010 CONSTRUCTION
PROHIBITARY INFORMATION
RIGHTS RESERVED BY
INSTRUMENT CONTROL
SYSTEMS, INC.

DATE	BY	CHKD	APPD
1/1/71	J. H. HARRIS		

PROJECT	PROJ. NO.
INSTRUMENT CONTROL SYSTEMS, INC.	13005
INSTRUMENT CONTROL SYSTEMS, INC.	13005
INSTRUMENT CONTROL SYSTEMS, INC.	13005
INSTRUMENT CONTROL SYSTEMS, INC.	13005
INSTRUMENT CONTROL SYSTEMS, INC.	13005



```

C3-L1
ENCLOSURE LINK IN
TEMP STPT
IC-3-1E
NOT INSTALLED MOD

```

CP-1A
INCUBATION RACK 11
UPPER TRK LDB LEFT
CAL-5512
FUTURE

C-1
 INCUBATED IN BLOCK 22
 L-1 TAC TEL?
 71-3612
 NOT INSTALLED 400

```

C-10
INCUBATION FOR 11
T0 3 hr
TC-50.0%
NET INCREASE MOD

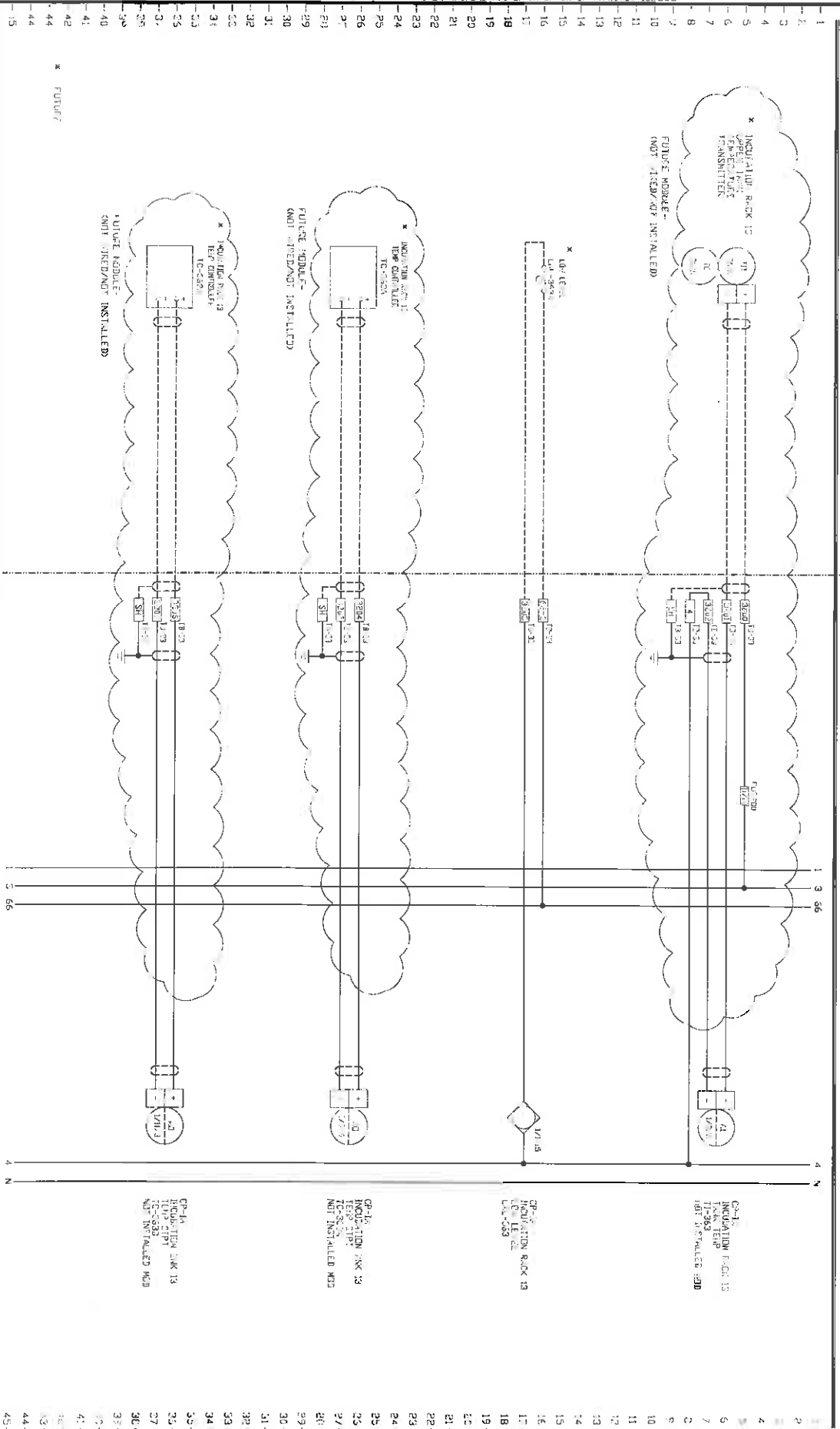
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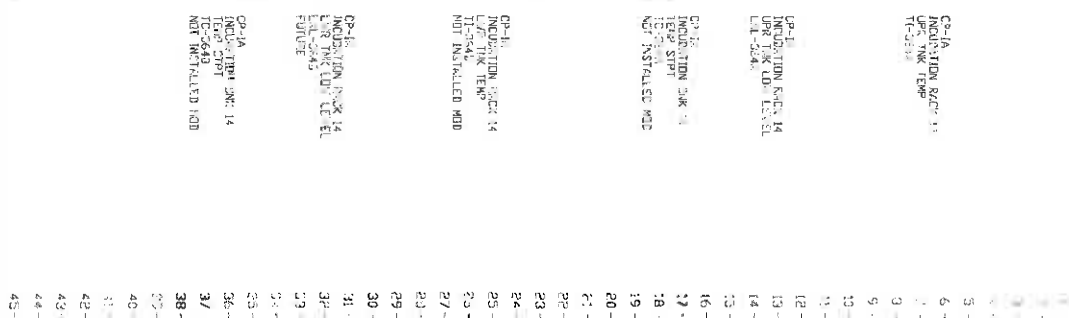
CP-1
INCUBATION BLOCK IS
FOR THE CO. LEVEL
11-1-34

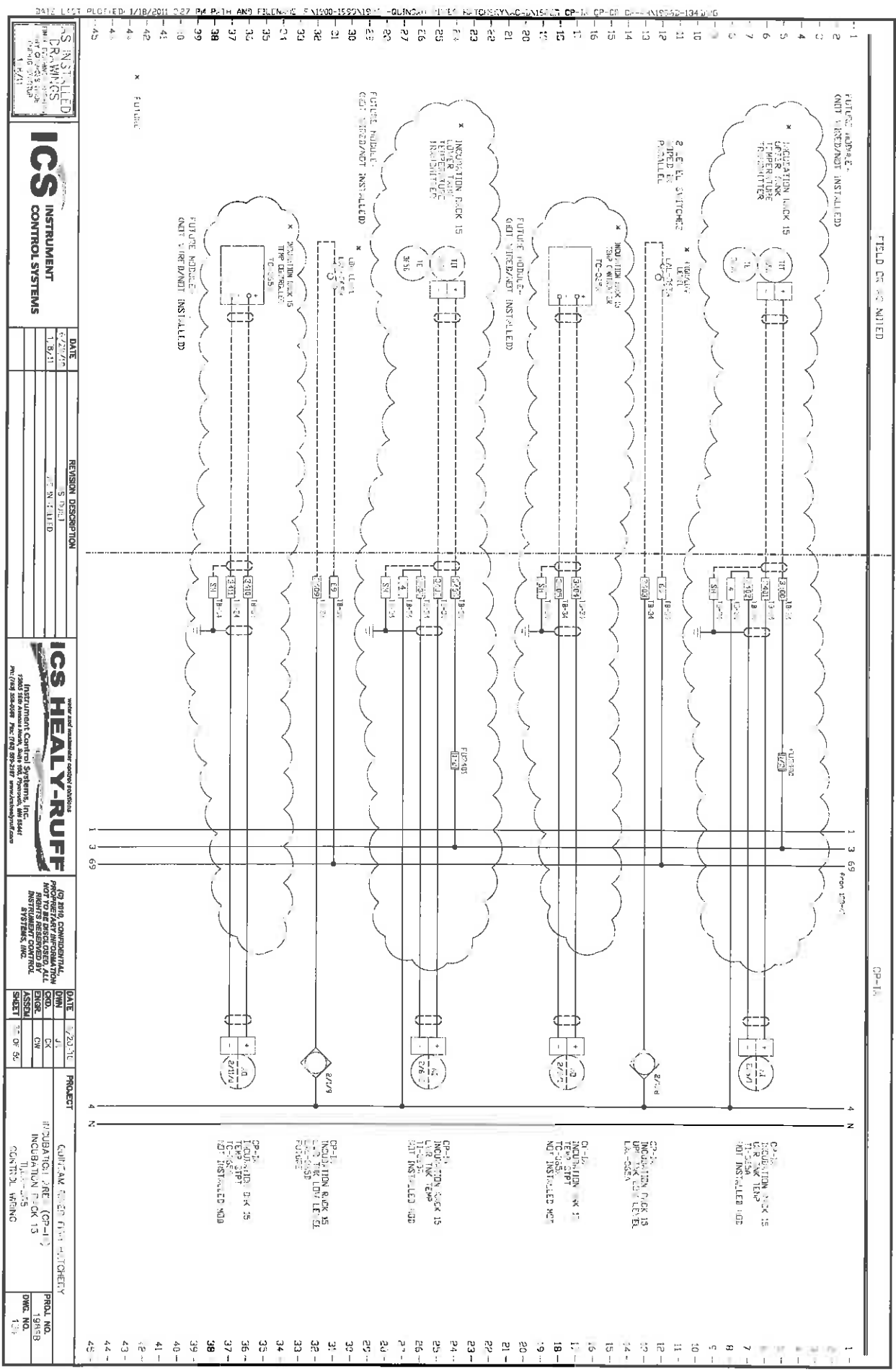
OP-2
INCUBATION RACK
UP, INK TEST
11-2651
NOT INSTALLED (30)

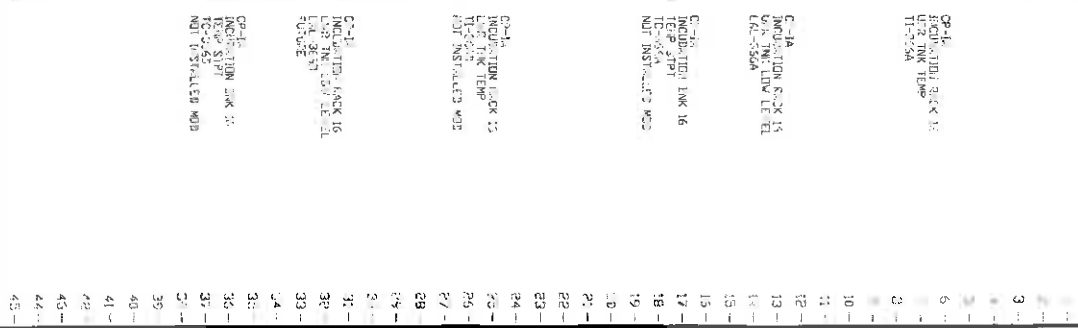
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[illegible]














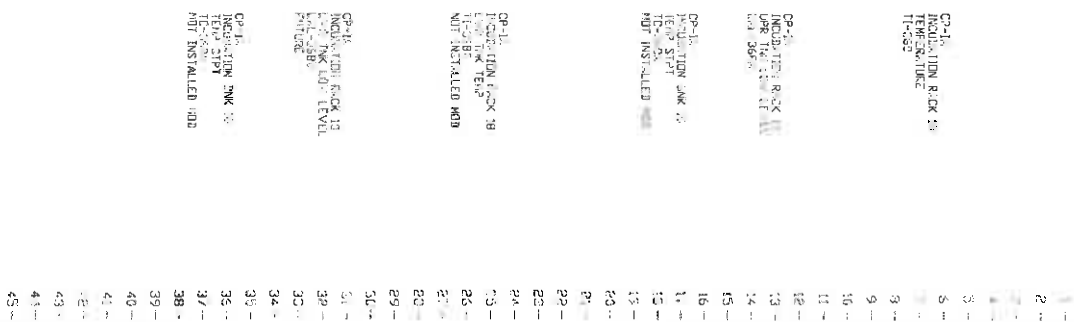


NOT RECORDED
FBI - MEMPHIS
COMMUNICATIONS SECTION
MAY 6 1968
FBI - MEMPHIS

REVISION DESCRIPTION	
DATE	7/28/16
	1/2/11

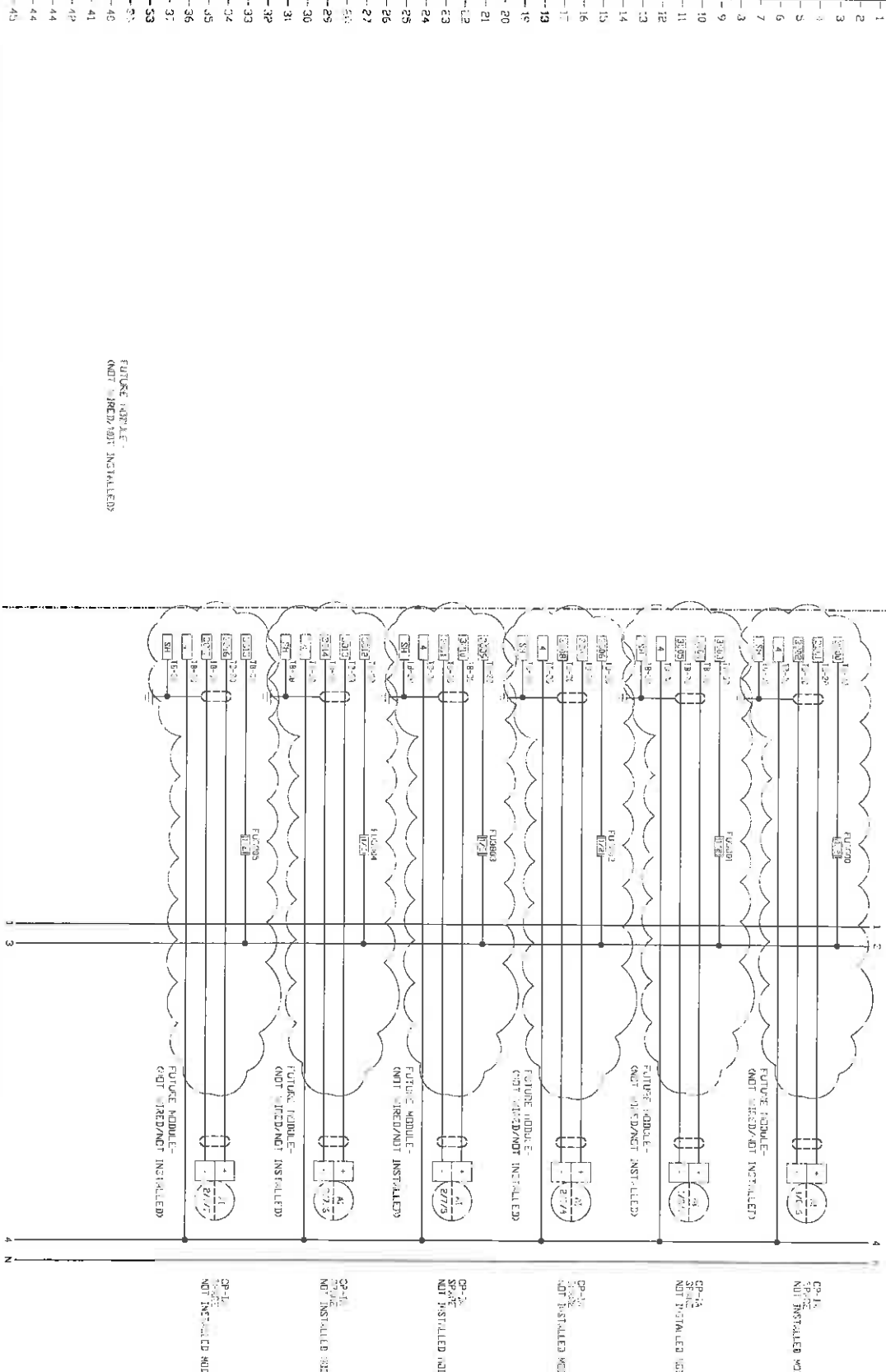
<p>IN THE SUPPLEMENTAL PROCESS OF AFRICA NOT TO BE USED AS A INSTRUMENT CONTROL SYSTEM, INC.</p>							
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[illegible]



FIELD NO. 45107ED

CP-1.0.



S. INSTALLED
DRAINING
FILL & DRAINAGE WORK
ANY QUANTITY
CHERRY STREET
1907

ICS INSTRUMENT
CONTROL SYSTEMS

DATE	REVISION DESCRIPTION
05/10/10	25 EUR.T
1, 2, 31	25 EUR.T LED

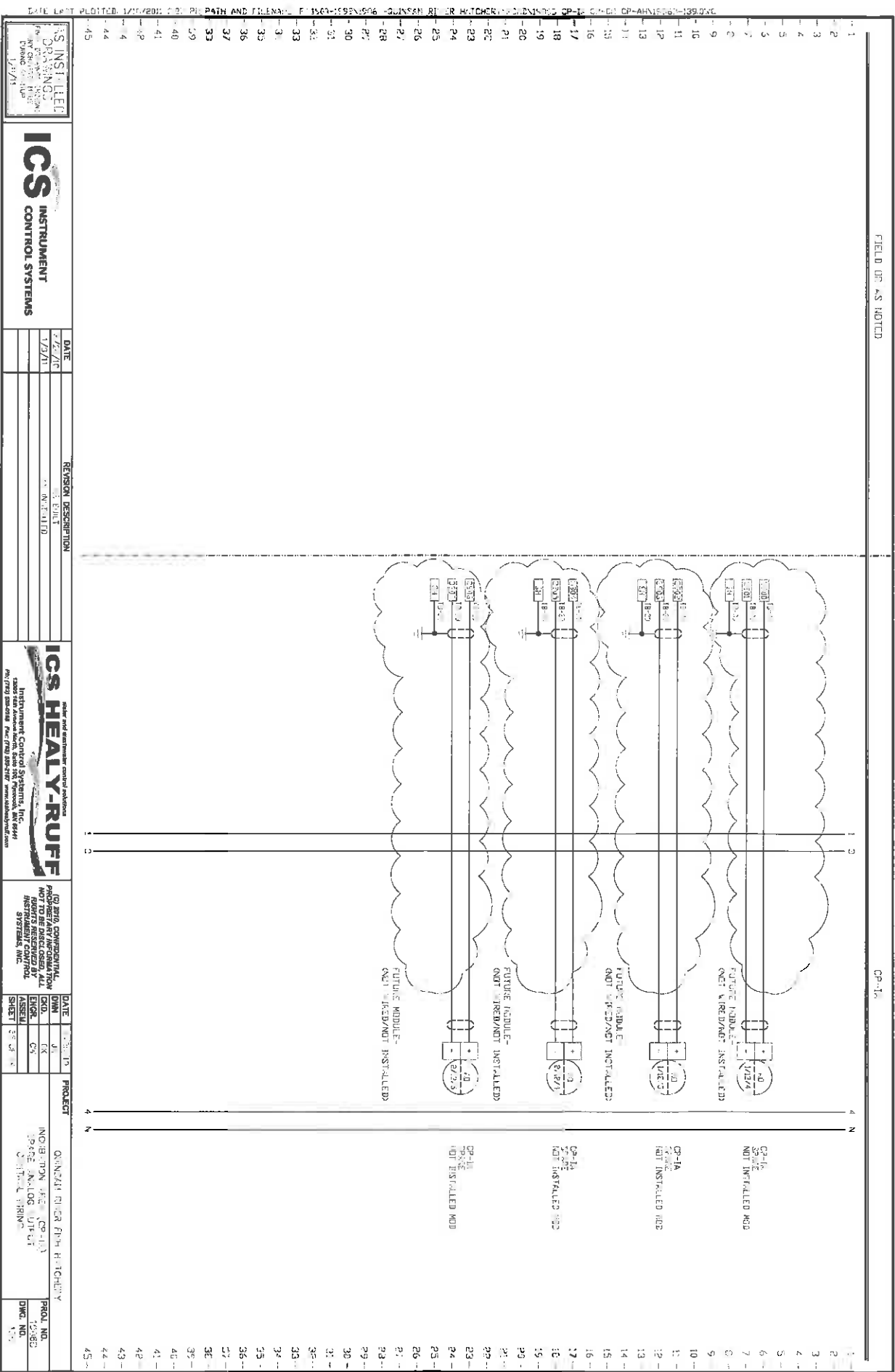
ICS HEALY-RUFF
Water and wastewater control solutions
Instrument Control Systems, Inc.
13000 13th Avenue North, Suite 100, Pittsburgh, PA 15241
412-279-1131

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DATE	3/1/10
DWN	JE
CKD	JE
ENGR.	JE
ASSEM	
SHEET	1 OF 2

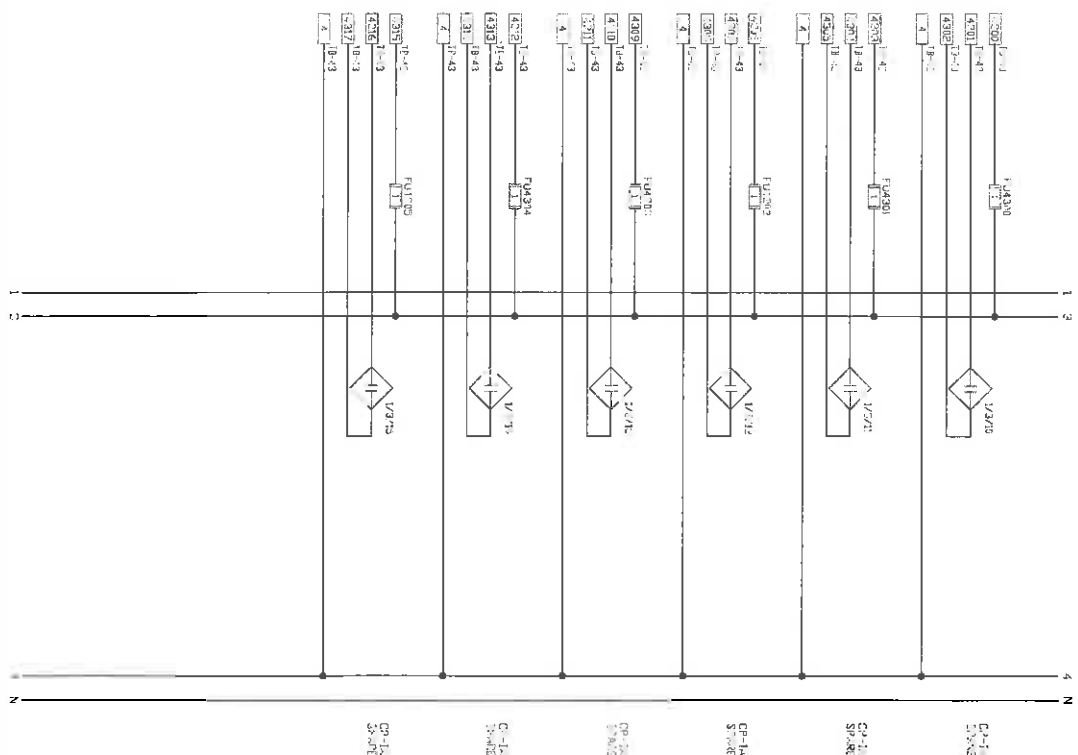
PROJECT	COMBINATION FIBER FIDELITY MATCHING
DESCRIPTION AND DATE (Of-1)	
DATE AND TIME INPUT	
CONTROL WINDING	

PROJ. NO.	1
DWG. NO.	



FIELD OR AS NOTED

CP-1.4



AS INSTALLED
SERVICES
FROM 1960 TO 1980
BY THE AGE OF
CIRCUIT 120

ICS
INSTRUMENT
CONTROL SYSTEMS

DATE

REVISION DESCRIPTION

water and wastewater control applications.

IGS HEALTHY-RUFF

Instrument Control Systems, Inc.

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INSTRUMENT CONTROL
SYSTEMS, INC.

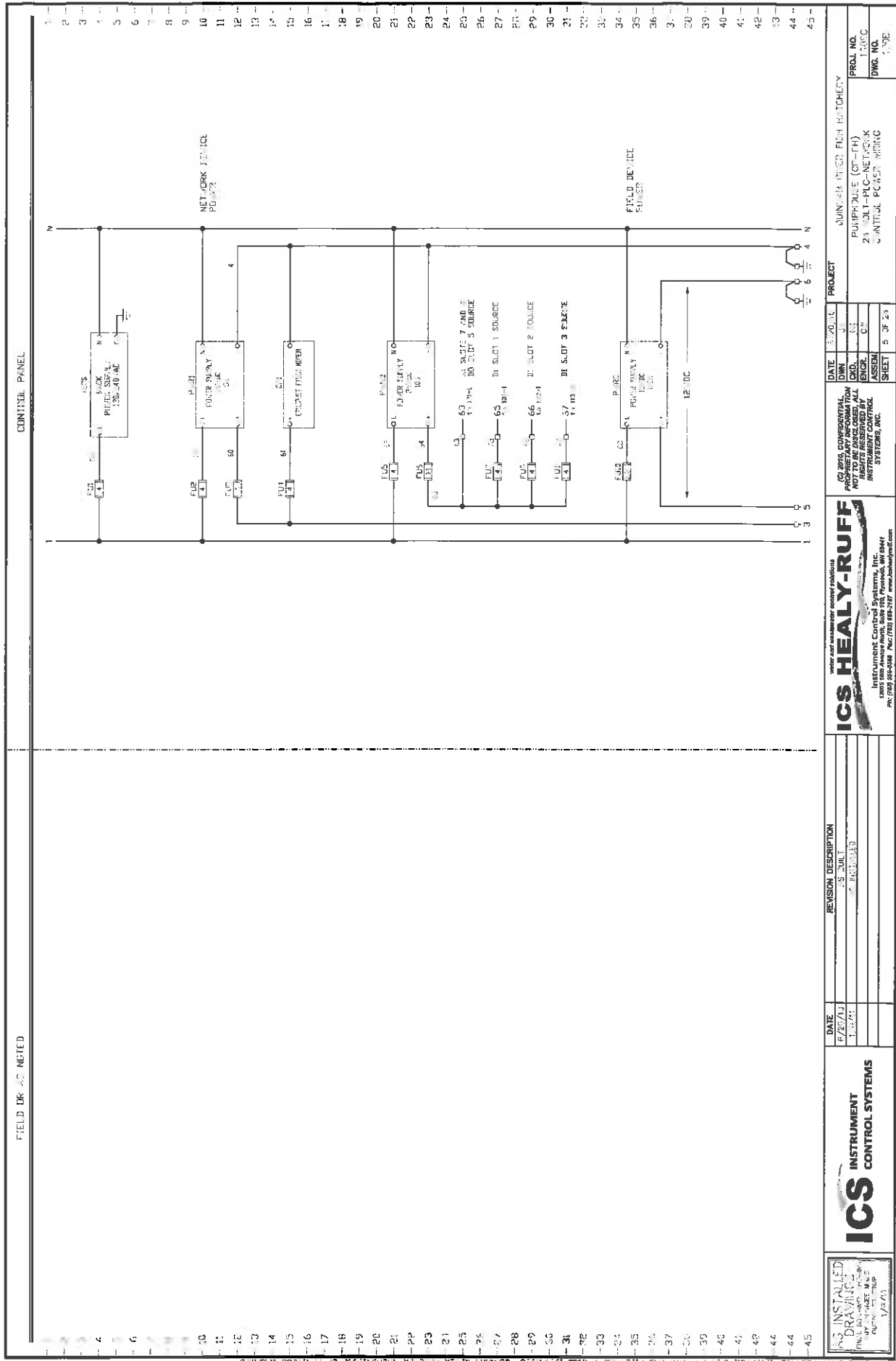
17005 1000 Alameda Road, Suite 100, P.O. Box 640, MN 55451
PH: (763) 536-0529 Fax: (763) 536-2187 www.kmh.com/prof.cta

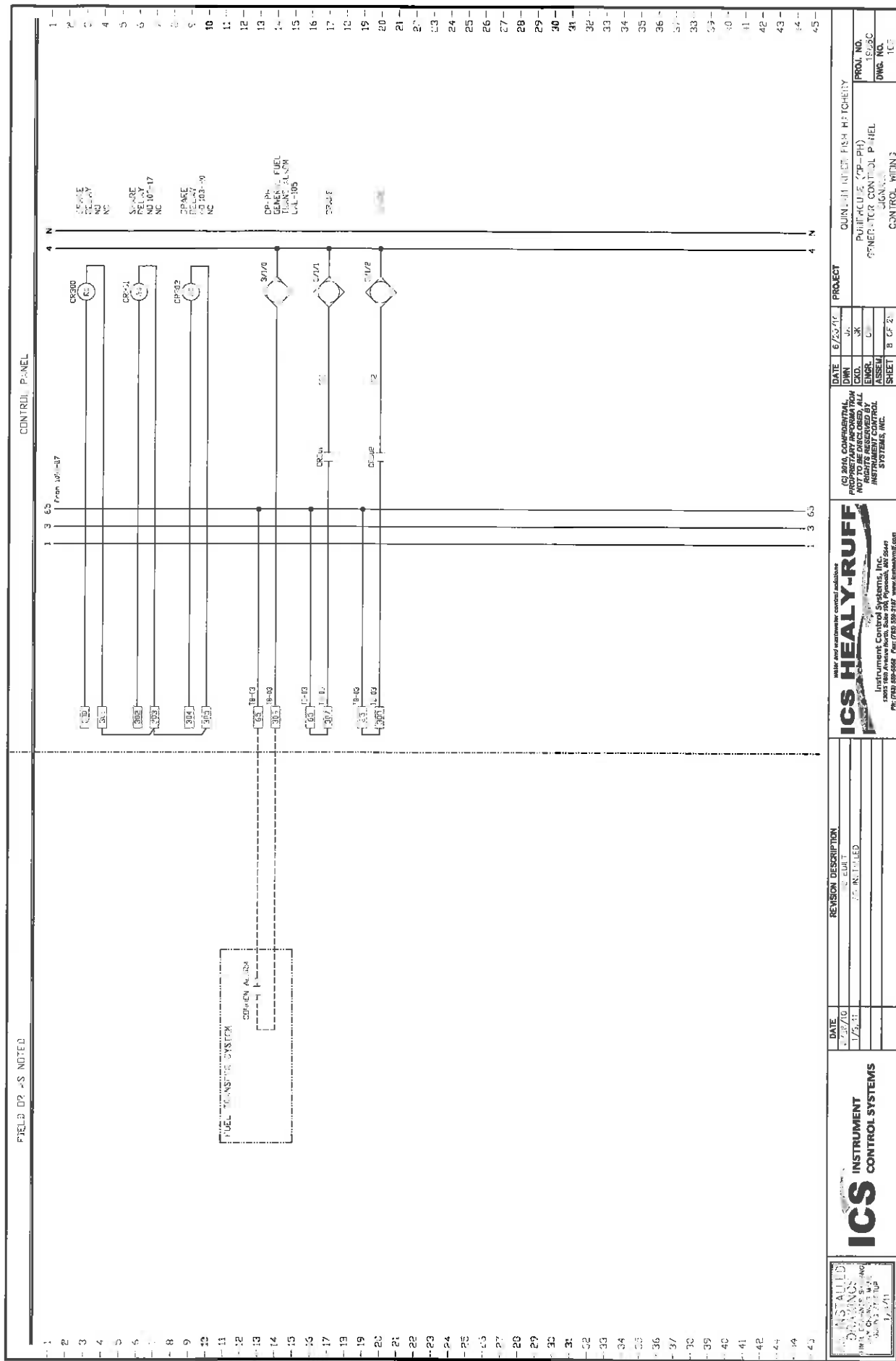
DATE	5/22/11
DWN	JA
CKD.	CA
ENGR.	CU
ASSEM.	
SHEET	31 OF 50

PROJECT

INDEBTEDNESS (Gf-10)

98 THE DIGITAL OUTPUT OF THE TRAINING





NOTES

ICS INSTRUMENT CONTROL SYSTEMS

DATE	REVISION DESCRIPTION
1/22/10	REVISED
1/5/11	REINSTALLED

ICS HEALY-RUFF
Water and wastewater control solutions

Instrument Control Systems, Inc.
13015 16th Avenue North, Suite 100, Plymouth, MN 55449

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INSTRUMENT CONTROL

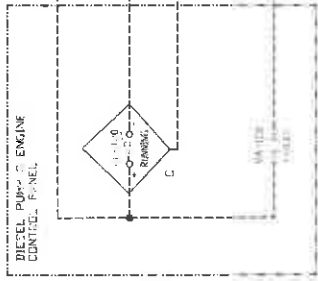
DATE	6/25/90
DWN	JL
CKD.	JK
EMGR.	C
ASSEM	
SUPP	B

PROJECT _____
QUINCY INTER FISH HARBOR _____
PULPACU & (P-PPH) _____
GENERATOR CONTROL PANEL _____
SIGNATURE _____

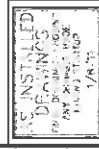
CHEVY	PROJ. NO.	1925C
	DWG. NO.	

FIELD OR AS NOTED

CONTROL PANEL



CP-24 DIESEL PUMP 3
QUINCY DIESEL PUMP 3
CP-24 DIESEL PUMP 3
QUINCY DIESEL PUMP 3



DATE 1/18/10
REVISION DESCRIPTION
1.0 INITIAL



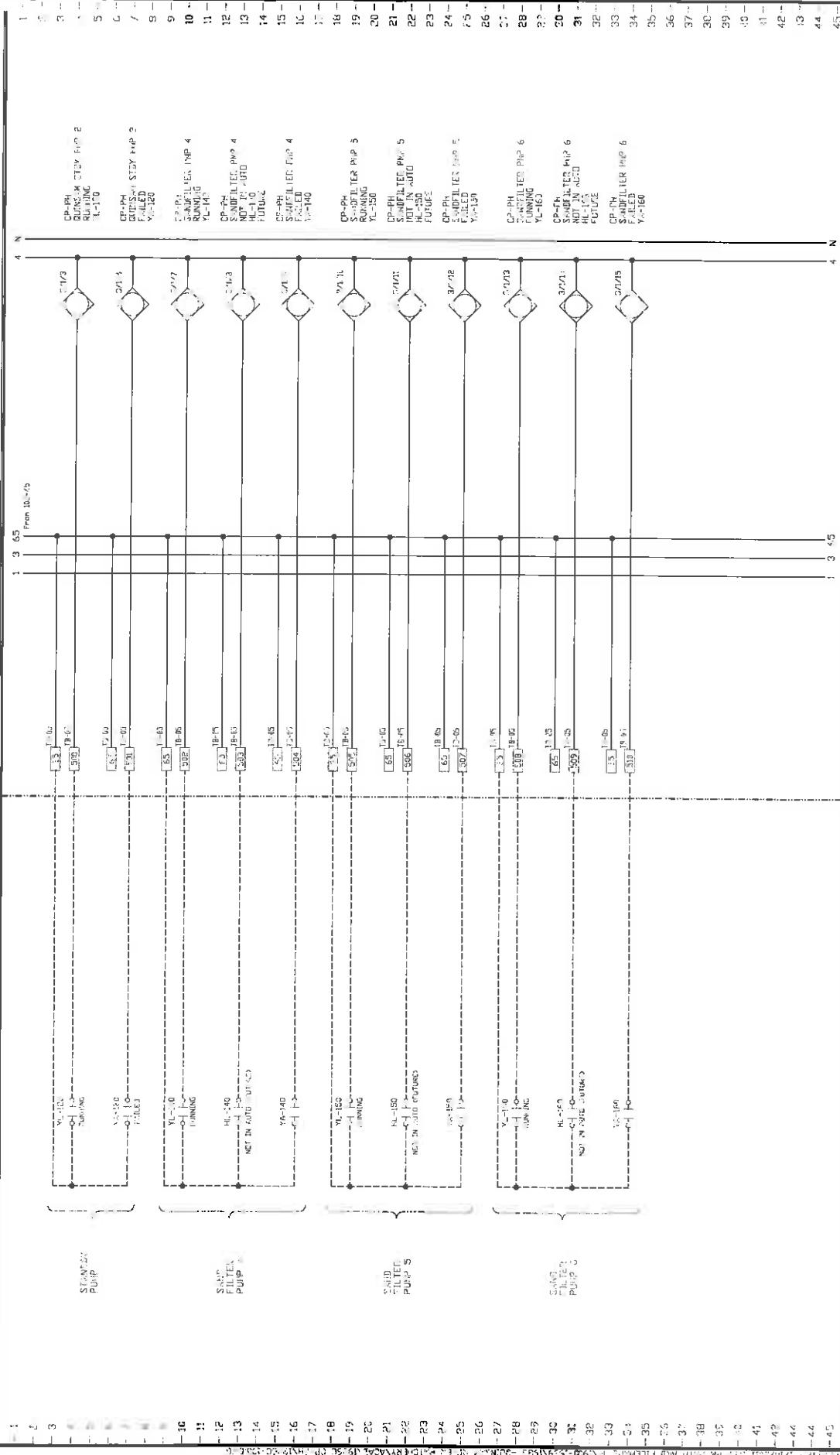
DATE 1/18/10
REVISION DESCRIPTION
1.0 INITIAL

PROJECT QUINCY FIELD PUMP HATCHERY
PUMP PUMP
ENGINE CONTROL PANEL

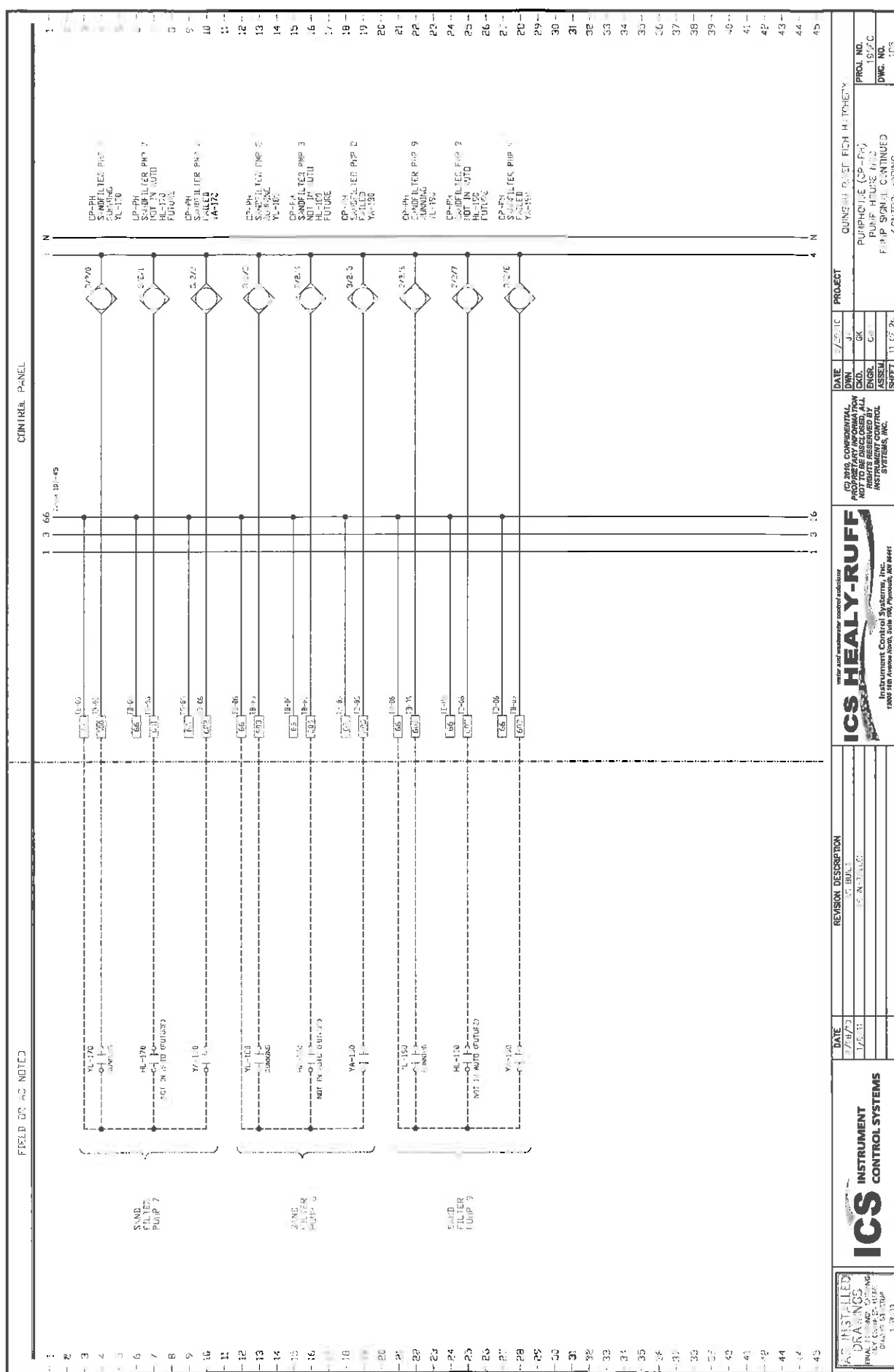
PROJ. NO. 1807
DWG. NO. 104

EQUIP HOUSE MOD 1

CONTROL PANEL



ICS INSTRUMENT CONTROL SYSTEMS 1800 Star Avenue North, Suite 100, Plymouth, MI 48178 PH: (734) 226-0000 FAX: (734) 226-0001 www.icscontrol.com		IC 2010 CONFIDENTIAL PROPRIETARY INFORMATION NOT TO BE REPRODUCED OR DISCLOSED WITHOUT THE WRITTEN PERMISSION OF INSTRUMENT CONTROL SYSTEMS, INC.		DATE: 6/1/10 CND: GSK ENGR: GSK ASSEM: GSK SHEET: 1 OF 1		PROJECT: QUINCY FISH HATCHERY PUMP FUTURE UCC PUMP CONTROL CONTROL: RISING		PROJ. NO.: 100-120 DWG. NO.: 100-120	
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ICS INSTRUMENT CONTROL SYSTEMS

DATE 3/2/73
REVISION DESCRIPTION
1/2/73

DATE 3/2/73
REVISION DESCRIPTION
1/2/73

DATE 3/2/73
REVISION DESCRIPTION
1/2/73

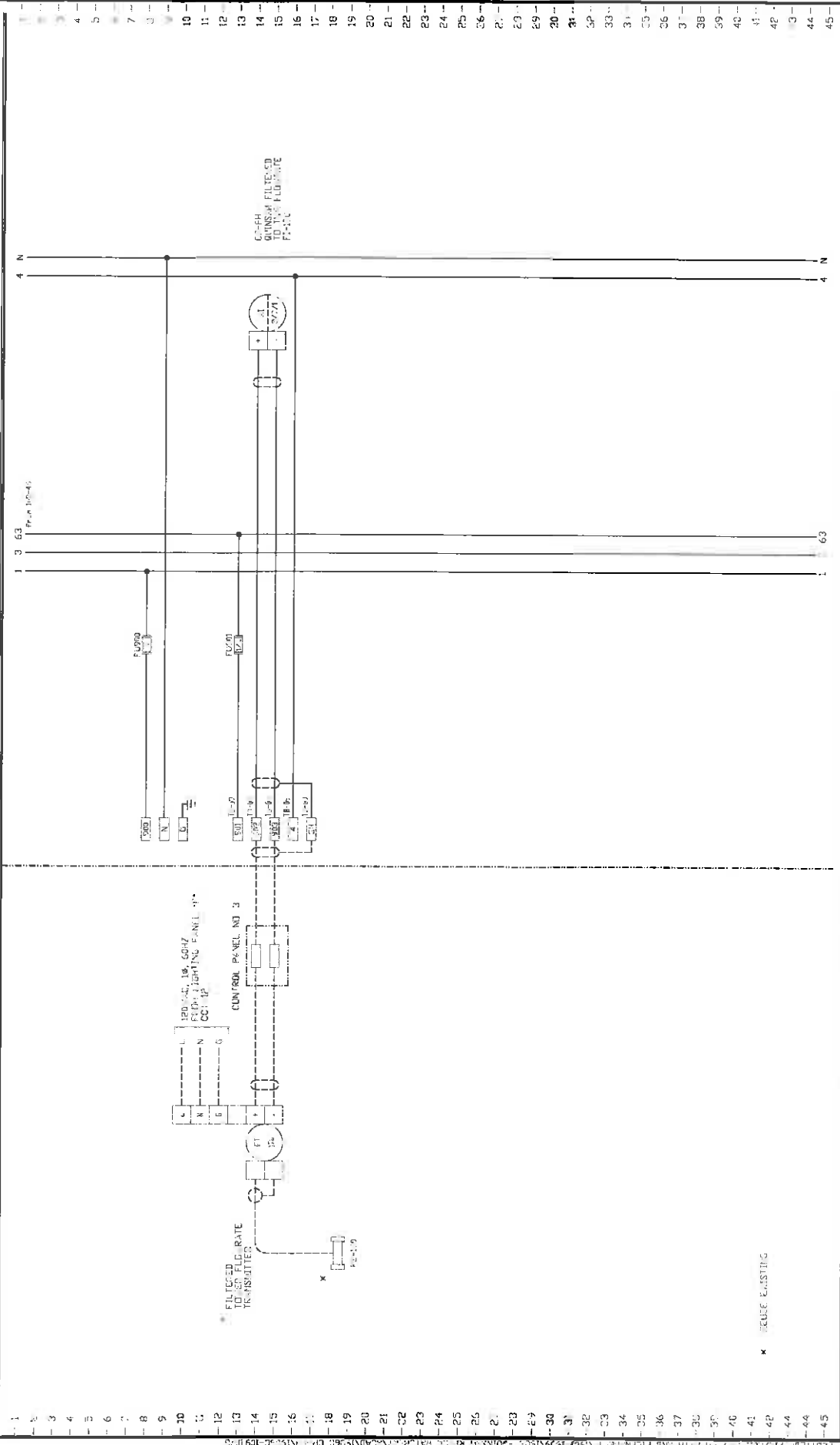
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REVISION DESCRIPTION
1/2/73

DATE 3/2/73
REVISION DESCRIPTION
1/2/73

DATE 3/2/73
REVISION DESCRIPTION
1/2/73

FIELD WIRING NOTED

CONTROL PANEL



DATE		REVISION DESCRIPTION		DATE		PROJECT	
R 12/10		S 0017		12/11		CULIN AMBIER FIBER FACILITY	
12/11		E 0017		ENGR.		PROJECT (SIP PH)	
				ASSEM.		FIELD WIRING	
				SHEET		FITTING	
				14 17 21		CONTROL SYSTEM	

ICS HEALY-RUFF

Instrument Control Systems, Inc.

1000 100 Avenue West, Suite 100, Plymouth, MI 48178

PH: (734) 283-0000 FAX: (734) 283-1177 www.icshealyruff.com

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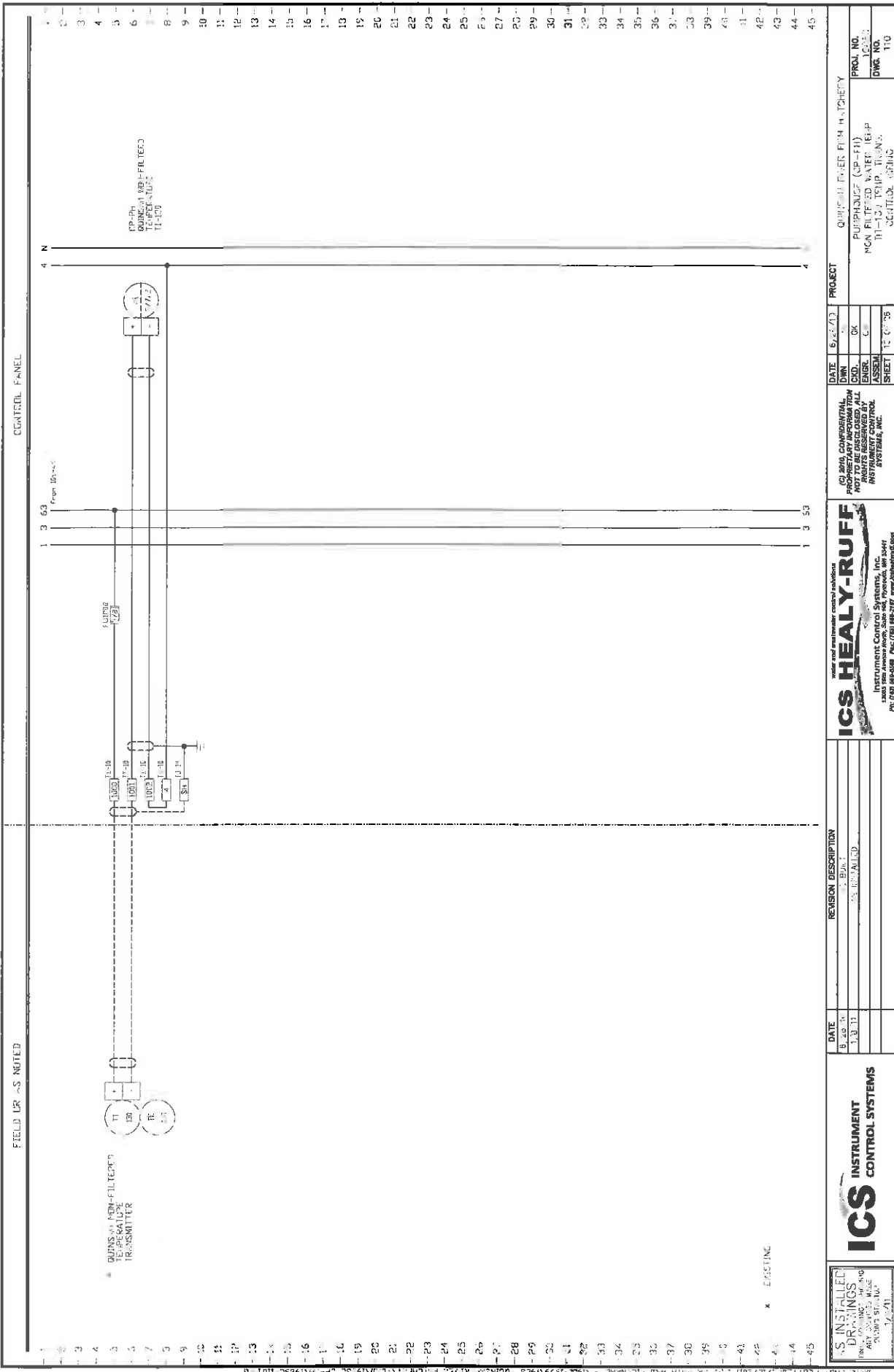
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BY: CS/MS/MS/MS

12/11

PROJECT NO. 138-0

DWG. NO. 14



ICs HEALY-RUFF

Instrument Control Systems, Inc.

10000 10th Avenue North, Suite 100, Plymouth, MN 55441

PH: (763) 450-0000 FAX: (763) 450-0001 www.icshealyruff.com

DATE	REVISION DESCRIPTION
8/24/10	1. AS INSTALLED
1/31/11	2. AS INSTALLED
1/31/11	3. AS INSTALLED
1/31/11	4. AS INSTALLED
1/31/11	5. AS INSTALLED
1/31/11	6. AS INSTALLED
1/31/11	7. AS INSTALLED
1/31/11	8. AS INSTALLED
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1/31/11	10. AS INSTALLED
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1/31/11	42. AS INSTALLED
1/31/11	43. AS INSTALLED
1/31/11	44. AS INSTALLED
1/31/11	45. AS INSTALLED

ICs INSTRUMENT CONTROL SYSTEMS

AS INSTALLED
DRAWINGS
1/31/11

DATE: 1/31/11
BY: J. B. L.

PROJECT: QUINCY POWER PLANT HATCHERY

PROJ. NO.: 10000

DWG. NO.: 110

DATE: 8/24/10

DESIGN: J. B. L.

ENGINEER: J. B. L.

ASSEMBLER: J. B. L.

SHEET: 10 OF 10

ICs HEALY-RUFF

Instrument Control Systems, Inc.

10000 10th Avenue North, Suite 100, Plymouth, MN 55441

PH: (763) 450-0000 FAX: (763) 450-0001 www.icshealyruff.com

DATE: 8/24/10

DESIGN: J. B. L.

ENGINEER: J. B. L.

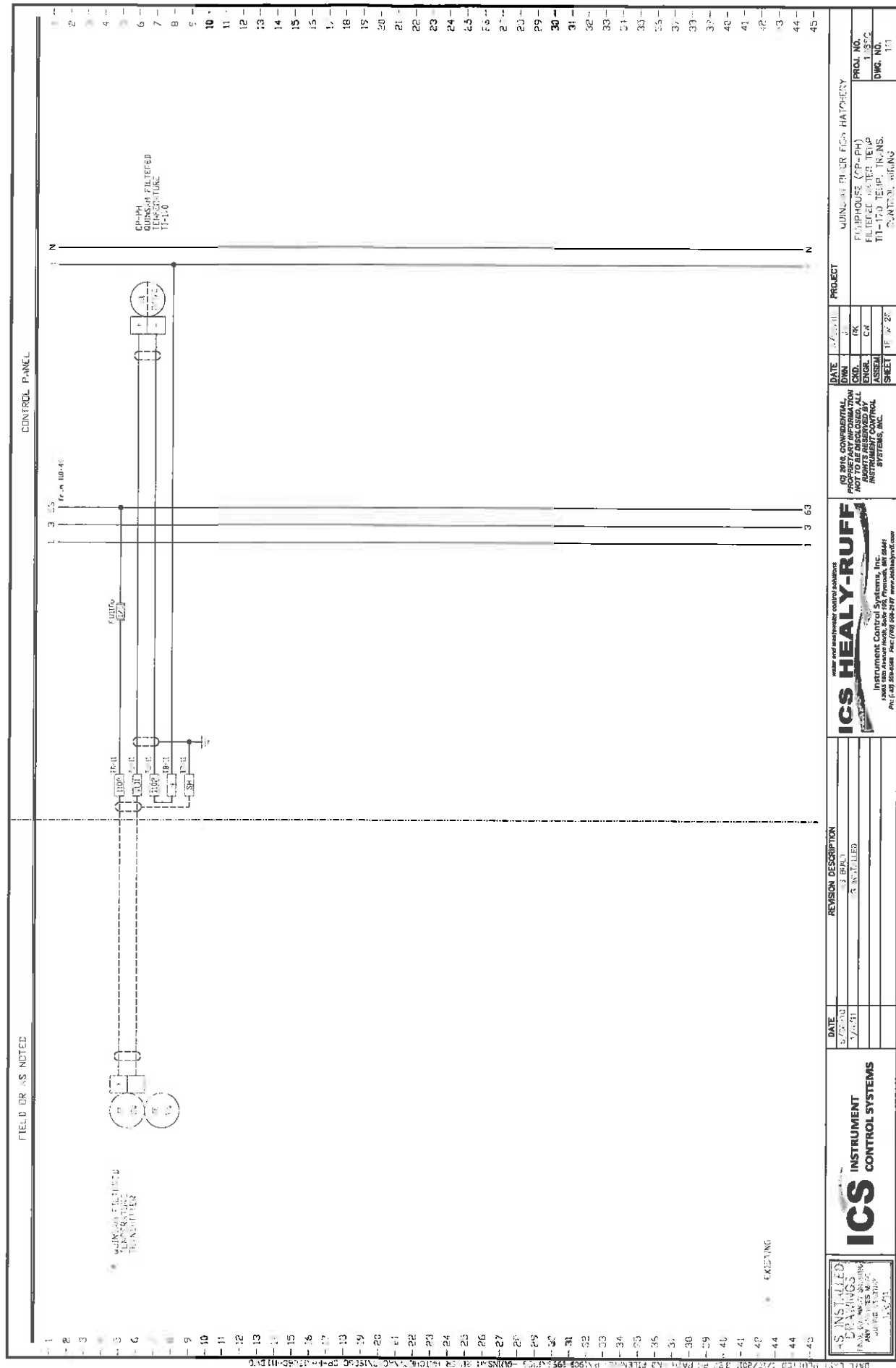
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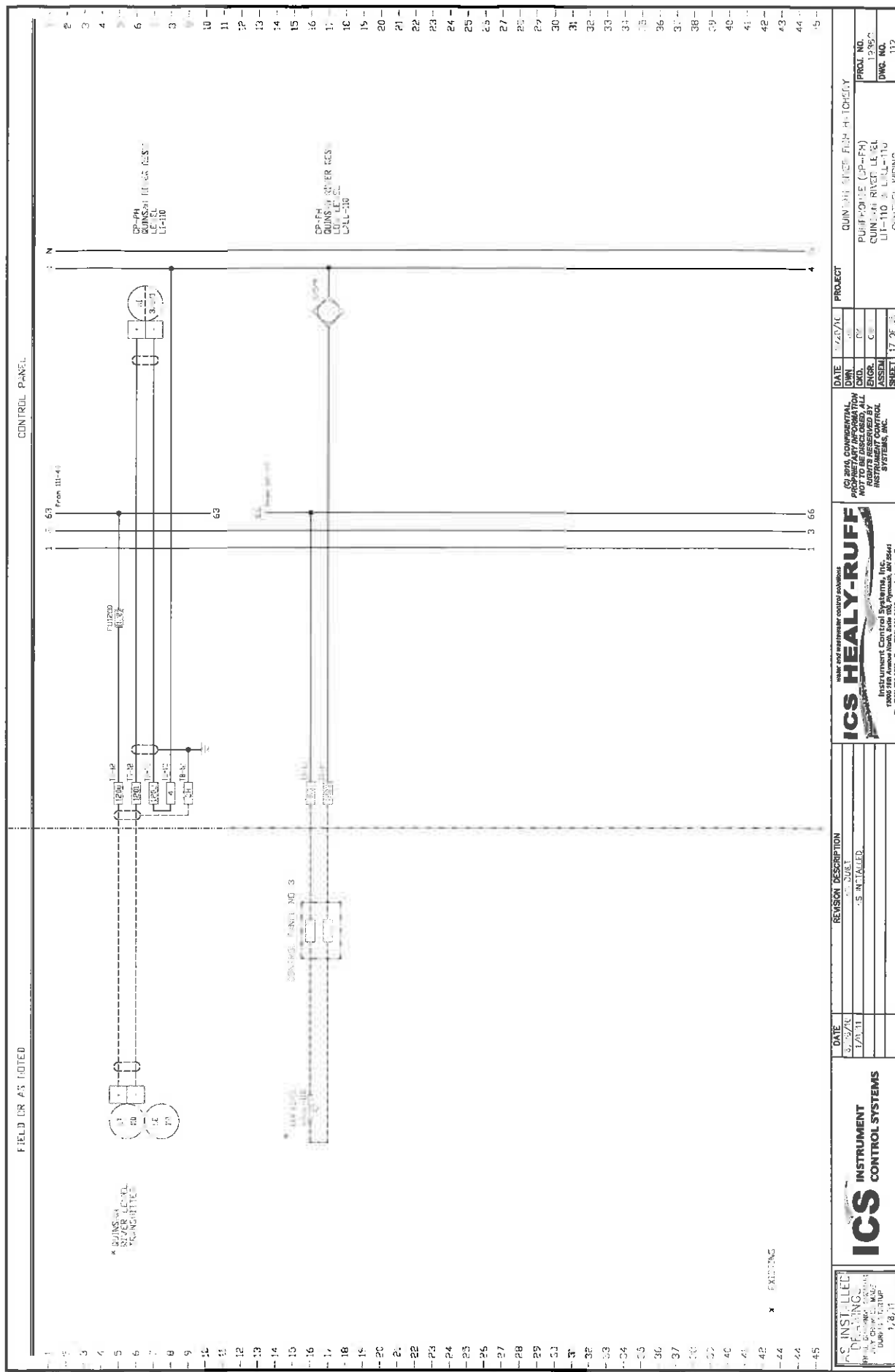
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ICs INSTRUMENT CONTROL SYSTEMS

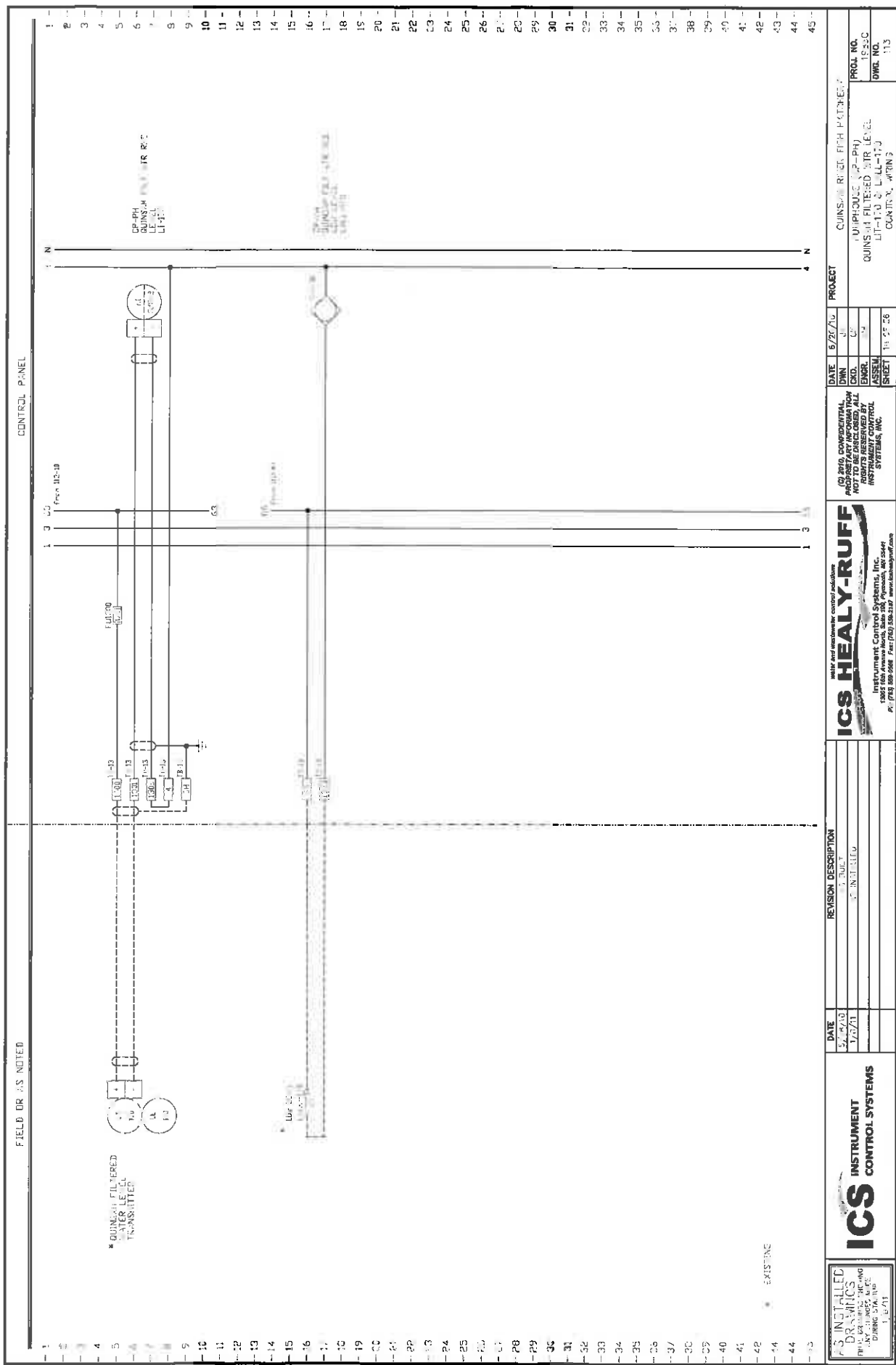
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DRAWINGS
1/31/11

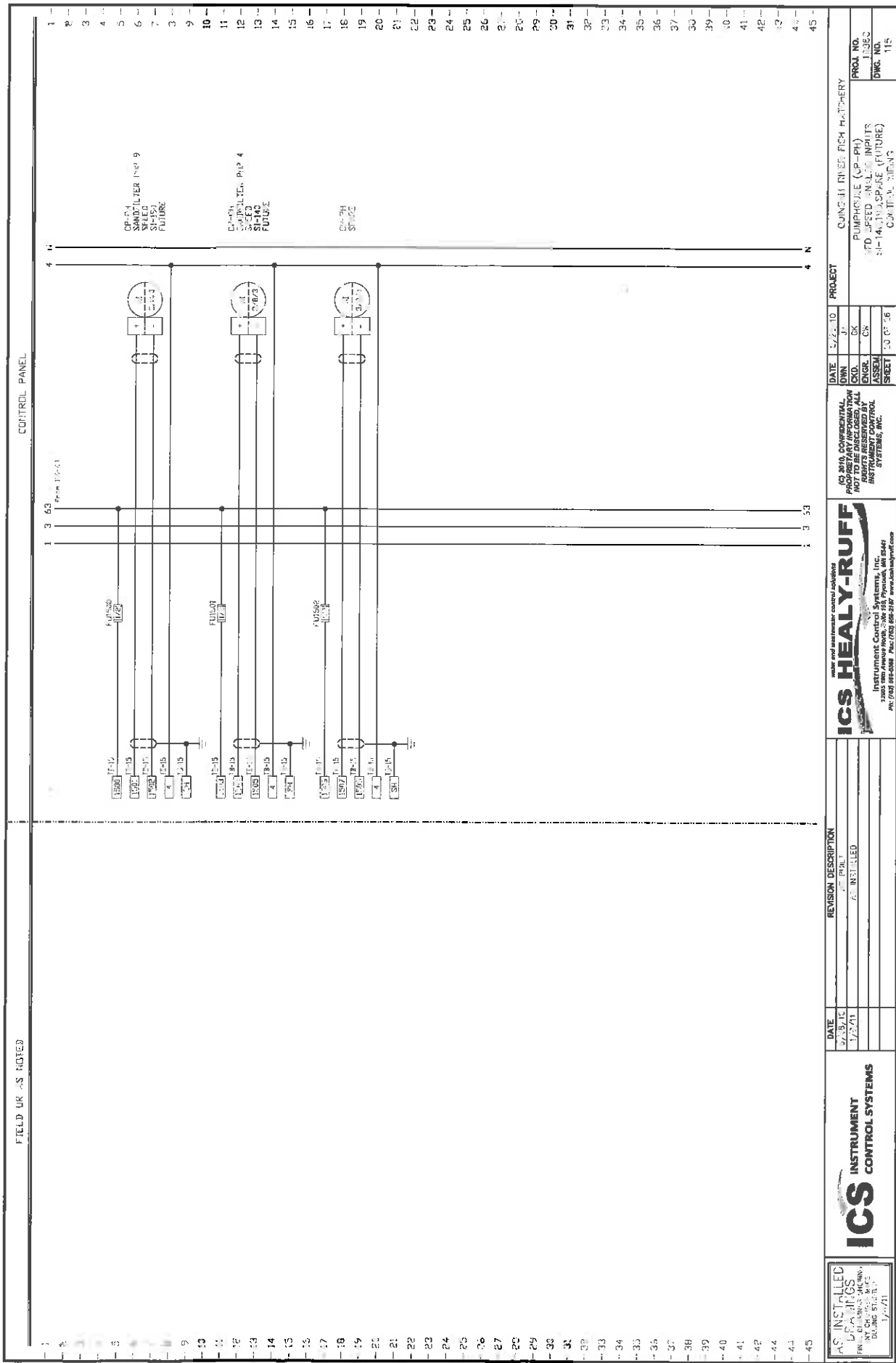
DATE: 1/31/11
BY: J. B. L.





2. INSTALLED
 3. DEFENDING
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**HAS INSTALLED
LUBRIGS**

ICS INSTRUMENT CONTROL SYSTEMS

| REVISION DESCRIPTION | DATE | BY |
|----------------------|------------|----------|
| 1. Initial Design | 10/1/2023 | J. Smith |
| 2. Revised Design | 10/15/2023 | J. Smith |
| 3. Final Design | 10/30/2023 | J. Smith |

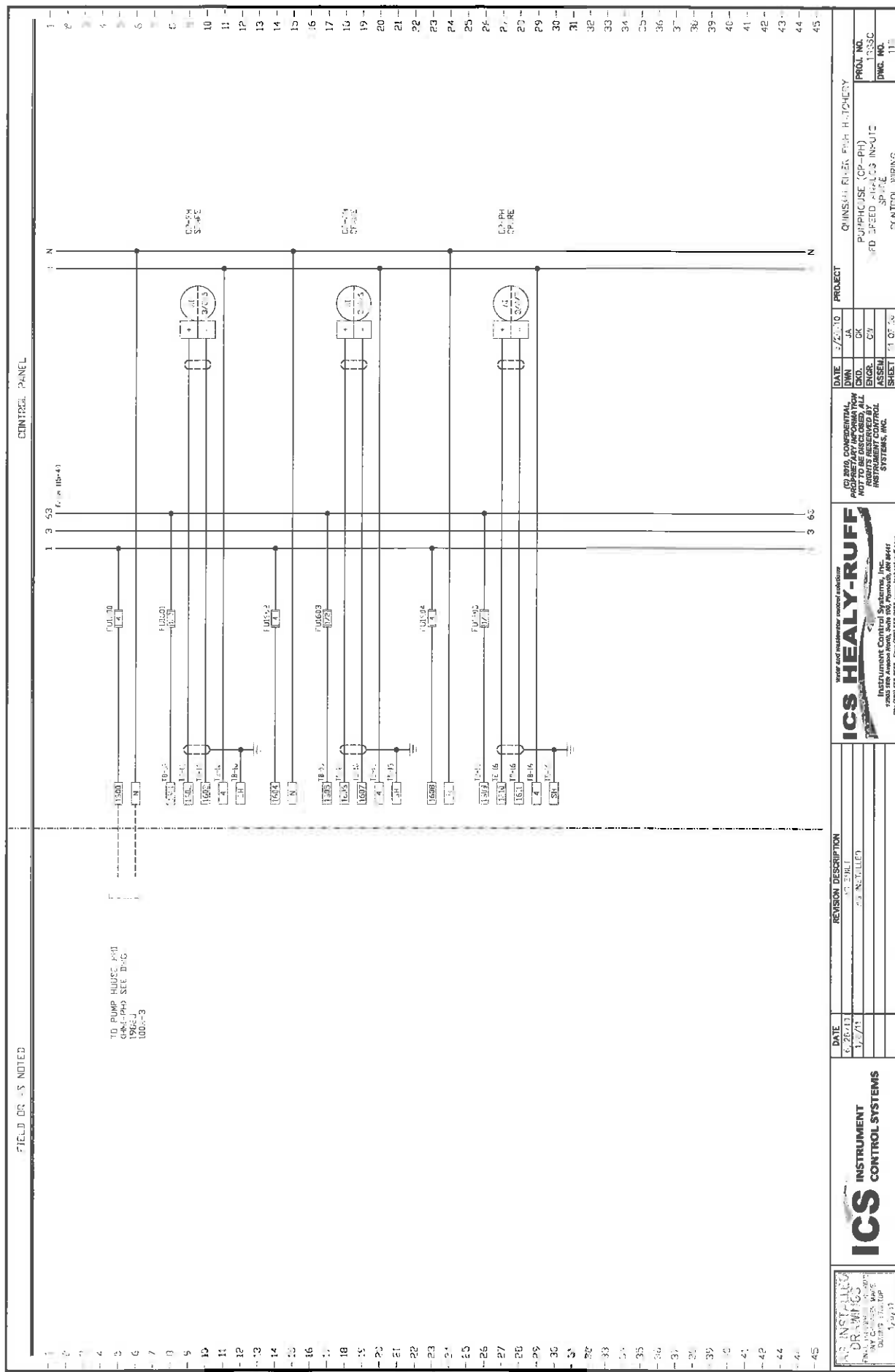
ICS HEALY-RUFF
water and wastewater control solutions

Instrument Control Systems, Inc.
12005 16th Avenue North, #100, Plymouth, MN 55441
PH: (763) 561-0066 FAX: (763) 565-2187 www.icshealyruff.com

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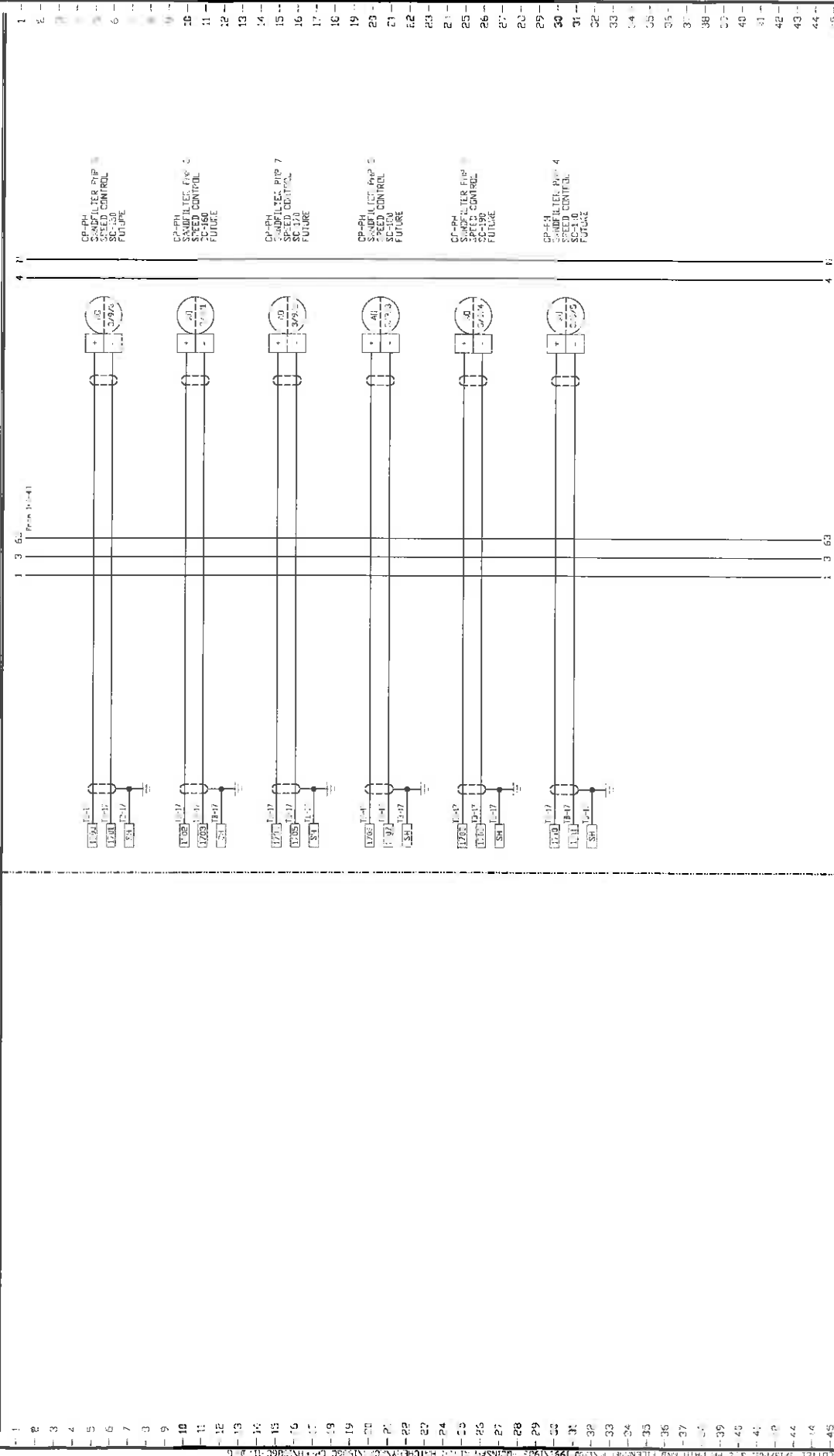
| | | |
|------|--------|---------|
| DATE | 6/2/10 | PROJECT |
| OWN | J. | |

QINGJI RIVER FISH HATCHERY



FIELD DE AS MING

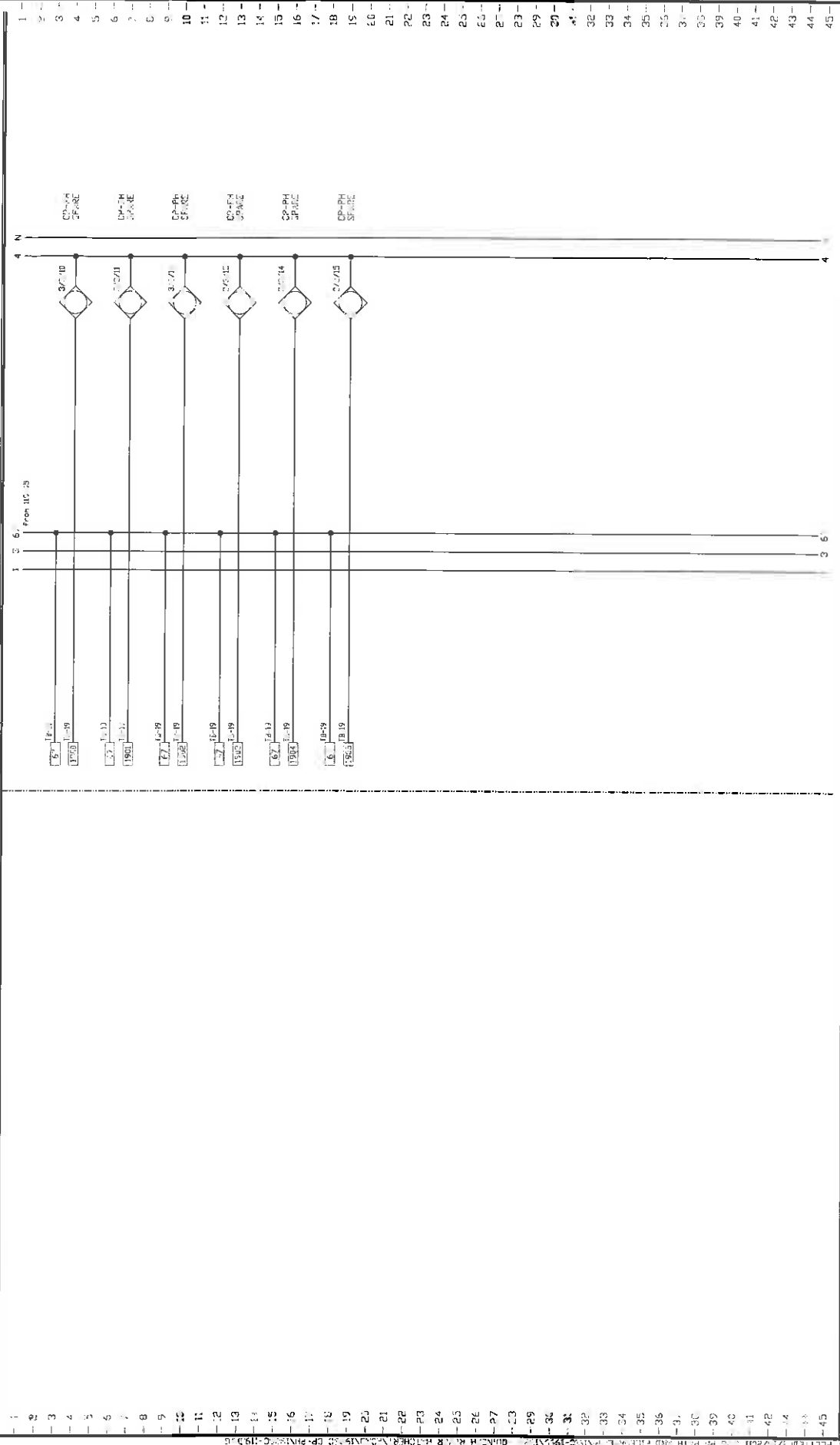
CONTROL PANEL



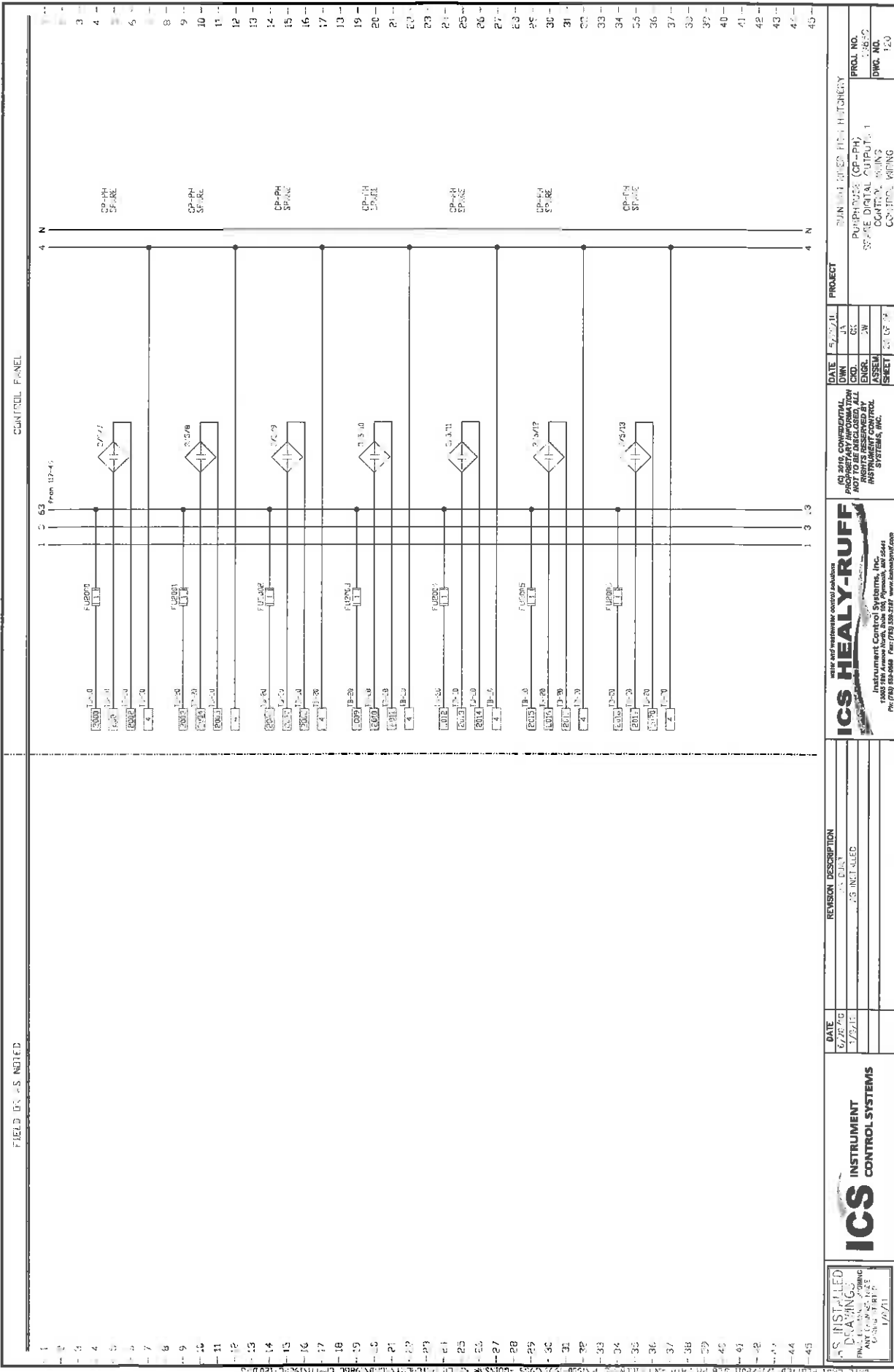
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| ICS
INSTRUMENT CONTROL SYSTEMS
12001 18th Avenue North, Suite 100, Plymouth, MI 48178
PH: (313) 885-1100 FAX: (313) 885-1101 WWW.ICS-CONTROL.COM | | ICS HEALY-RUFF
Instrument Control Systems, Inc.
12001 18th Avenue North, Suite 100, Plymouth, MI 48178
PH: (313) 885-1100 FAX: (313) 885-1101 WWW.ICS-CONTROL.COM | | (C) 2010 CONFIDENTIAL
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INSTRUMENT CONTROL SYSTEMS, INC. | | DATE: 12/29/10
DWN: JHE
CND: GJ
ENGR: CN
ASSEM: JHE
SHEET: 26 OF 26 | | PROJECT: MINGHAI PAPER MILL HATCHERY
PUMPHOUSE (CP-PH)
VED SPEED ANALOG OUTPUTS
SPEED QID (FUTURE)
CONTROL MINGHAI | | PROJ. NO.: 1387C
DWG. NO.: 11 | |
|--|--|---|--|--|--|--|--|--|--|----------------------------------|--|

FIELD OF AS NOTED

CONTROL PANEL



| | | | | | | | | | | | | | |
|---|--|---------------------------------------|--|---|--|--|--|--|--|---|--|---------------------------------|--|
| AS INSTALLED
DRAWINGS
BY DATE: 1/1/11
DURING SET-UP: 1/1/11 | | ICS INSTRUMENT CONTROL SYSTEMS | | ICS HEALY-RUFF
water and wastewater control solutions
Instrument Control Systems, Inc.
1200 18th Avenue South, Suite 200, Phoenix, AZ 85004
PH: (602) 944-2000 Fax: (602) 944-2001 www.icshealy-ruff.com | | (C) 2010 CONFIDENTIAL
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INSTRUMENT CONTROL
SYSTEMS, INC. | | DATE: 1/1/10
DWN: []
ENGR: []
ASSEM: []
SHEET: 21 OF 21 | | PROJECT: QUINCY RIVER FISH HATCHERY
PUMP-OUT (CP-PH)
FEMALE DIGITAL INPUT 2
CONTROL WING | | PROJ. NO. 150-0
DWR. NO. 119 | |
|---|--|---------------------------------------|--|---|--|--|--|--|--|---|--|---------------------------------|--|



FIELD USE - AS NOTED

CONTROL PANEL

ICS
INSTRUMENT
CONTROL SYSTEMS

DATE: 6/26/10
BY: J. D. J.

REVISION DESCRIPTION
1.0 INITIAL

ICS HEALY-RUFF
INSTRUMENT CONTROL SYSTEMS, INC.
1000 1st Avenue North, Suite 100, Minneapolis, MN 55411
Ph: (763) 782-2288 Fax: (763) 782-2287 www.icshealyruff.com

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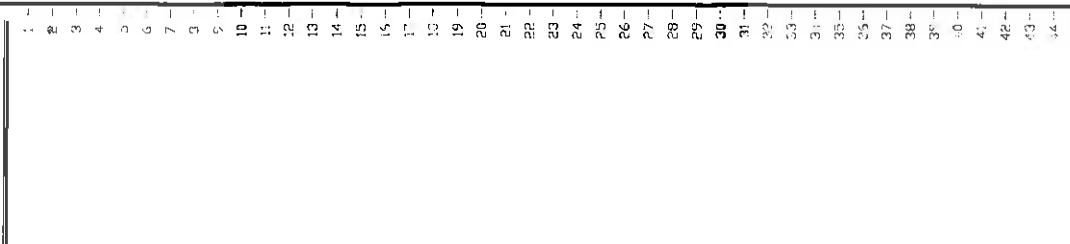
DATE: 6/26/10
DWG: J. D. J.
ENGR: J. D. J.
ASSEM: J. D. J.
SHEET: 120 OF 120

PROJECT: SUN 101 BLDG FISH HATCHERY

PURPOSE: CP-PH
SPACE DIGITAL OUTPUT 1
CONTROL WING
CONTR. WING

PROJ. NO.: 12850
DWG. NO.: 120

CONTROL PANEL

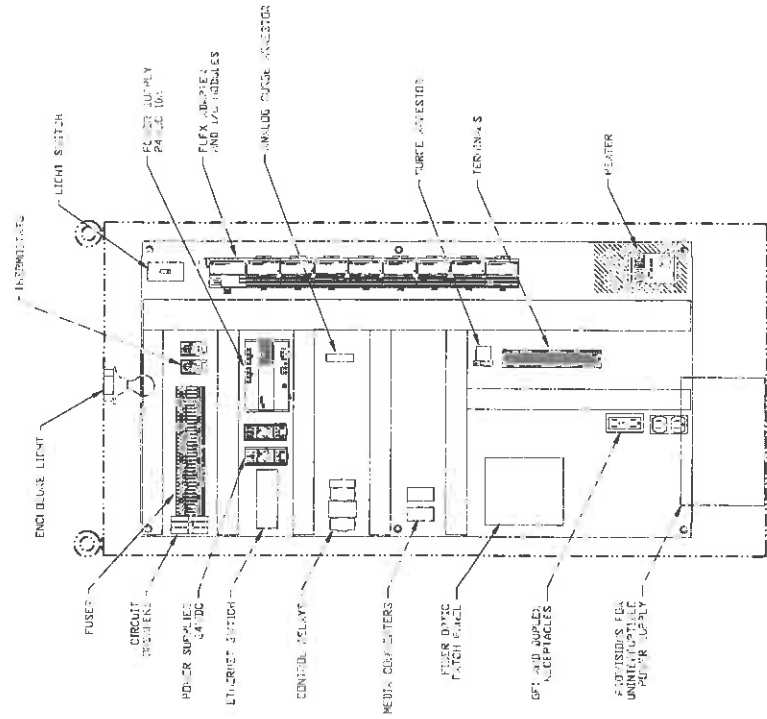
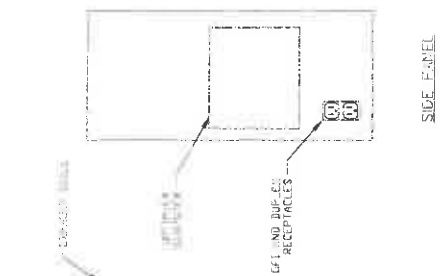
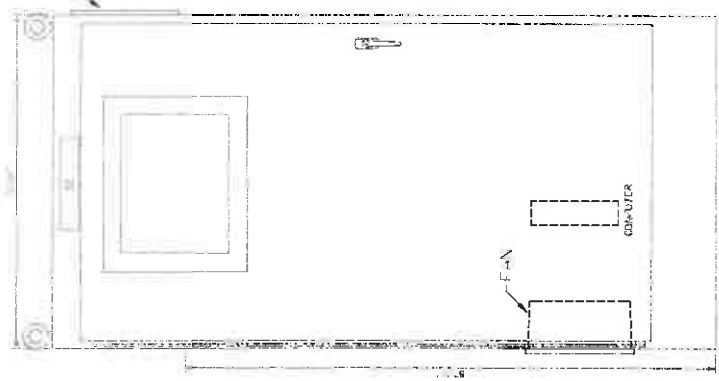
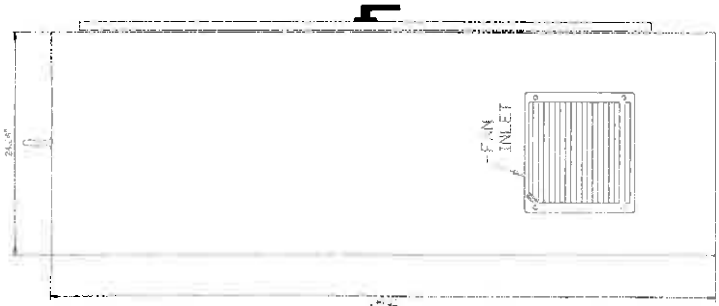


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| <div>INSTALLED
DRAWINGS
APPROVED
DATE 1/8/11</div> | <div>INSTRUMENT
CONTROL SYSTEMS</div> | <div>DATE
1/8/10
1/8/11</div> | <div>REVISION DESCRIPTION
P.1. BUILD
AS NOTED</div> | <div>water and wastewater control solutions</div> | <div>ICS HEALY-RUFF
Instrument Control Systems, Inc.
13001 160 Avenue Road, Suite 100, Plymouth, MI 48170
PH: (734) 995-0508 Fax: (734) 556-2197 www.icshealyruff.com</div> | <div>(C) 2010, CONFIDENTIAL
PROPRIETARY INFORMATION
NOT TO BE REPRODUCED OR
RIGHTS RESERVED BY
INSTRUMENT CONTROL
SYSTEMS, INC.</div> | <div>DATE
1/8/10</div> | <div>PROJECT
QUINCY RIVER FISH HATCHERY</div> | <div>DATE
1/8/10</div> | <div>DWG. NO.
121</div> | <div>PROJ. NO.
1,050</div> | <div>PLUMBING
P.1. BUILD
AS NOTED</div> |
| | | | | | | | | | | | | <div>DATE
1/8/11</div> |

DRAWING INDEX

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| 1985D-002 | 1985D-002 | 1985D-002 | 1985D-002 | 1985D-002 | 6/12/2000 |
| 1985D-003 | 1985D-003 | 1985D-003 | 1985D-003 | 1985D-003 | 6/12/2000 |
| 1985D-004 | 1985D-004 | 1985D-004 | 1985D-004 | 1985D-004 | 6/12/2000 |
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| 1985D-013 | 1985D-013 | 1985D-013 | 1985D-013 | 1985D-013 | 6/12/2000 |
| 1985D-014 | 1985D-014 | 1985D-014 | 1985D-014 | 1985D-014 | 6/12/2000 |
| 1985D-015 | 1985D-015 | 1985D-015 | 1985D-015 | 1985D-015 | 6/12/2000 |
| 1985D-016 | 1985D-016 | 1985D-016 | 1985D-016 | 1985D-016 | 6/12/2000 |

| | | | | | | | |
|---|--|--|--|--|--|--|---------------------------------|
|  ICS INSTRUMENT CONTROL SYSTEMS | DATE: 7/28/00
TIME: 11:00 AM | REVISION DESCRIPTION:
1. 5 BUILT
2. 10 BUILT | ICS HEALY-RUFF
Instrument Control Systems, Inc.
10000 11th Avenue North, Suite 100, Minneapolis, MN 55441
PH: (763) 551-0000 Fax: (763) 551-1101 www.icscontrol.com | (C) 2000, CONFIDENTIAL
PROPRIETARY INFORMATION
RIGHTS RESERVED BY
INSTRUMENT CONTROL
SYSTEMS, INC. | DATE: 7/28/00
DWN: [blank]
ENGR: [blank]
ASSEM: [blank]
SHEET: 1 OF 22 | PROJECT: QUINCY FILTER PLANT HATCHERY
DRAWING INDEX | PROJ. NO. 1985D
DWG. NO. NDX |
| | ICS INSTRUMENT CONTROL SYSTEMS
10000 11th Avenue North, Suite 100, Minneapolis, MN 55441
PH: (763) 551-0000 Fax: (763) 551-1101 www.icscontrol.com | | | | | | |



NOTES:

- ENCLOSURE IS A 44 TYPE 304 STAINLESS STEEL, 1/2" THICK PANEL HOUSING 17200000.
- FINISH IS 304 GRAY.
- SEE SPEC.



| NAMEPLATE SCHEDULE | | | | |
|---|------|---------------|-------|---------|
| TAG | LINE | LINE2 | LINE3 | REMARKS |
| 01 | CP-1 | ALLOCATION TO | 2410 | |
| NAMEPLATES ARE BLACK WITH WHITE LETTERS | | | | |

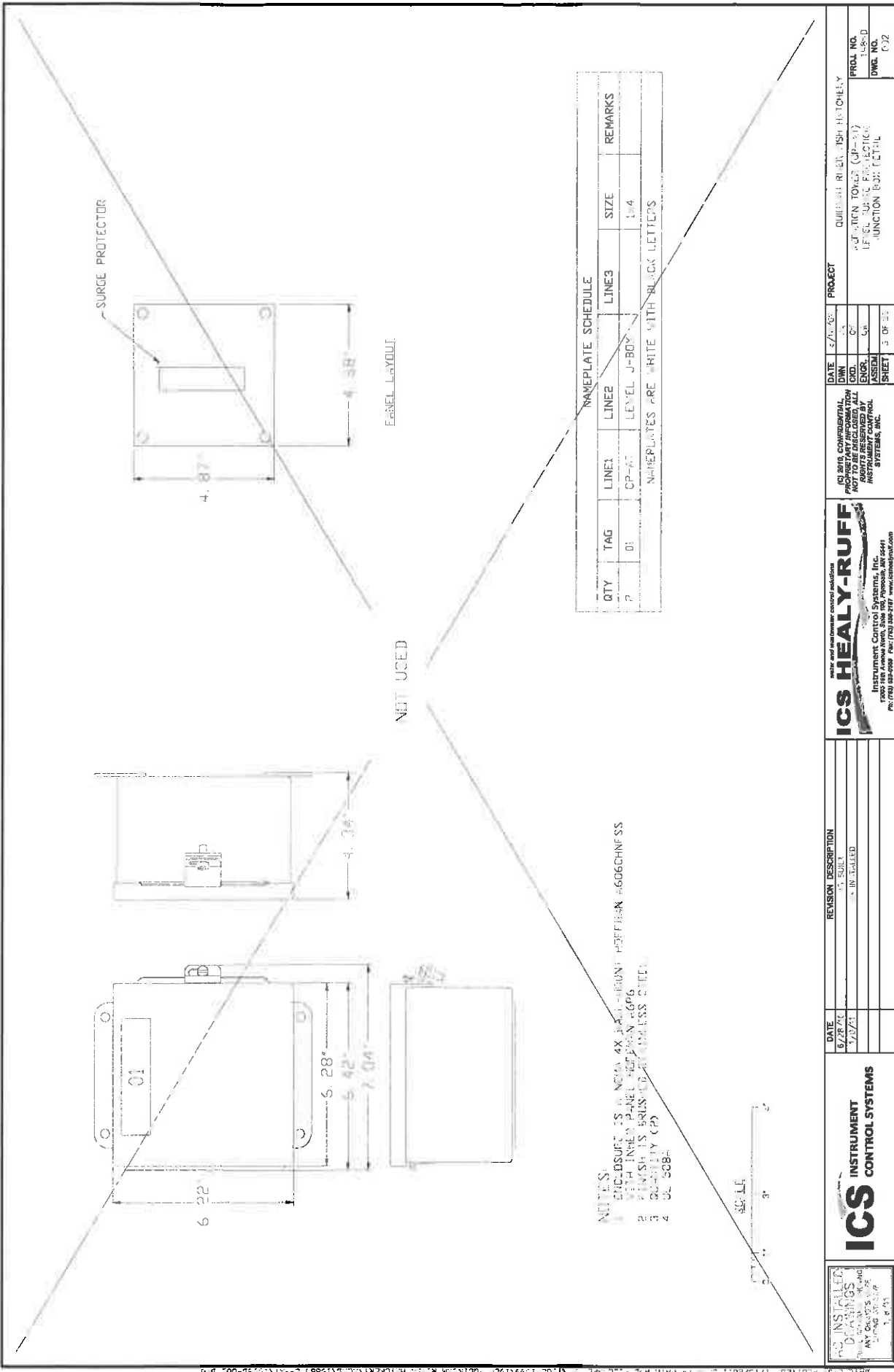
ICS INSTALLED
DRAWINGS
1/8/01

ICS INSTRUMENT
CONTROL SYSTEMS

| DATE | REVISION DESCRIPTION |
|--------|----------------------|
| 1/8/01 | 1. INITIALS |

ICS HEALY-RUFF
Instrument Control Systems, Inc.
1000 10th Avenue North, Suite 100, Plymouth, MI 48170
PH: (313) 335-0000 FAX: (313) 335-0001 www.icshealy-ruff.com

| DATE | DATE | PROJECT |
|--------|--------|-----------------------|
| 1/8/01 | 1/8/01 | QUINCY MILLER MATCH-Y |
| 01 | 01 | ENCLOSURE DETAIL |
| 01 | 01 | ENCLOSURE DETAIL |
| 01 | 01 | ENCLOSURE DETAIL |



SURGE PROTECTOR

NET USED

| NAMEPLATE SCHEDULE | | | | | |
|---|-----|-------|-------------|-------|------|
| QTY | TAG | LINE1 | LINE2 | LINE3 | SIZE |
| 2 | 01 | OP-AT | LEVEL J-BOX | | 1x4 |
| NAMEPLATES ARE WHITE WITH BLACK LETTERS | | | | | |

- NOTES:
- 1 ENCLOSURE IS 18" NOM. 4X 18" 18" HIGHT HOFFMAN #606CHNFSS
 - 2 WITH INNER PANEL HOFFMAN #606
 - 3 FINISH IS BRUSHED ALUMINUM
 - 4 UL 508B

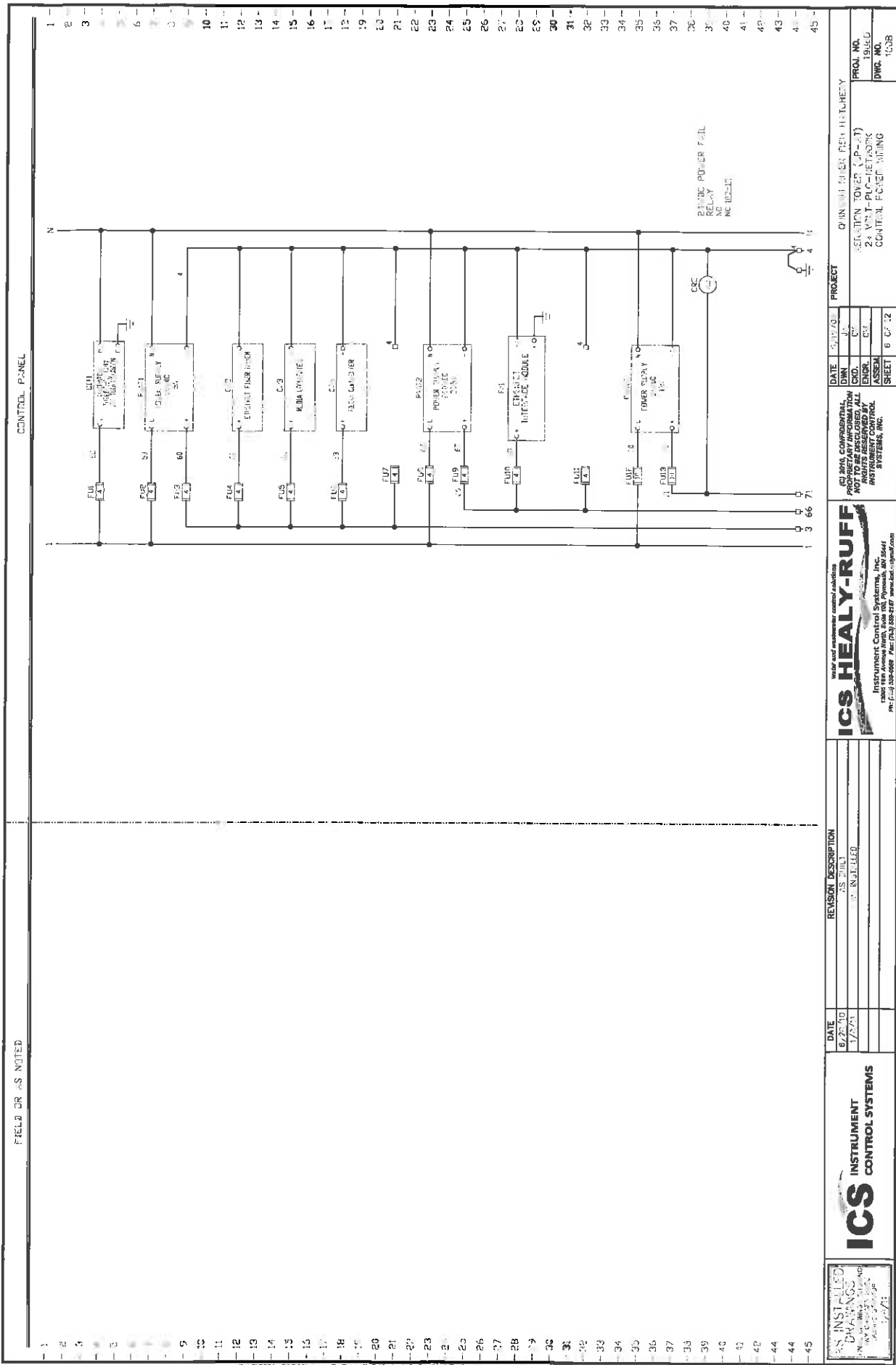


| | | | | | | | |
|----------------------|--|---|--|----------------------|--|-------------------------------------|--|
| DATE
8/28/01 | | REVISION DESCRIPTION
1.0 BUILT
2.0 IN FIELD | | DATE
8/28/01 | | PROJECT
QUICK RISE TISH HATCHERY | |
| PROJECT NO.
158-D | | PROJECT NO.
158-D | | PROJECT NO.
158-D | | PROJECT NO.
158-D | |
| PROJECT NO.
158-D | | PROJECT NO.
158-D | | PROJECT NO.
158-D | | PROJECT NO.
158-D | |
| PROJECT NO.
158-D | | PROJECT NO.
158-D | | PROJECT NO.
158-D | | PROJECT NO.
158-D | |

ICS HEALY-RUFF
Instrument Control Systems, Inc.
1000 1st Avenue North, Suite 200, Minneapolis, MN 55441
PH: (612) 835-0000 FAX: (612) 835-0001 www.icshealy-ruff.com

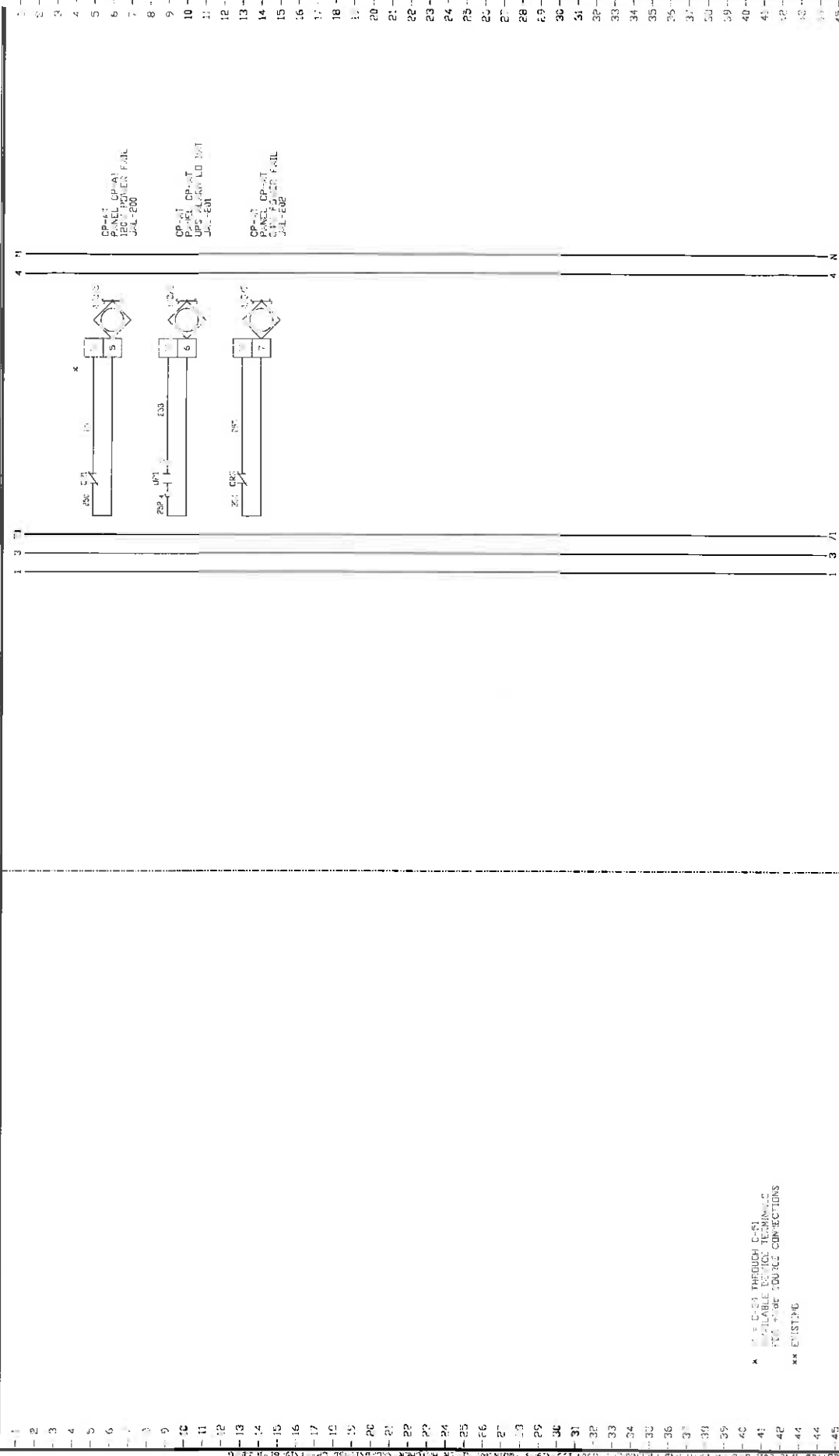
ICS INSTRUMENT CONTROL SYSTEMS

AS INSTALLED
DRAWINGS
ANY CHANGES
MAY BE MADE
DATE 8/28/01



FIELD DISCREPANCIES NOTED

CONTROL PANEL



| DATE | | REVISION DESCRIPTION | | DATE | | PROJECT | |
|--------|--|----------------------|--|--------|--|-------------------------|--|
| 1/2/70 | | BUILT | | 1/2/70 | | QUINCY FIRM HATCHERY | |
| 1/3/71 | | REVISION | | 1/3/71 | | RELATION TO FIRM (C-11) | |
| | | | | | | PANEL ALPHAS | |
| | | | | | | CONTROL PANEL MOUNTING | |
| | | | | | | DWS NO. 102 | |

www.icsinstrumentcontrol.com

ICS HEALY-RUFF

Instrument Control Systems, Inc.

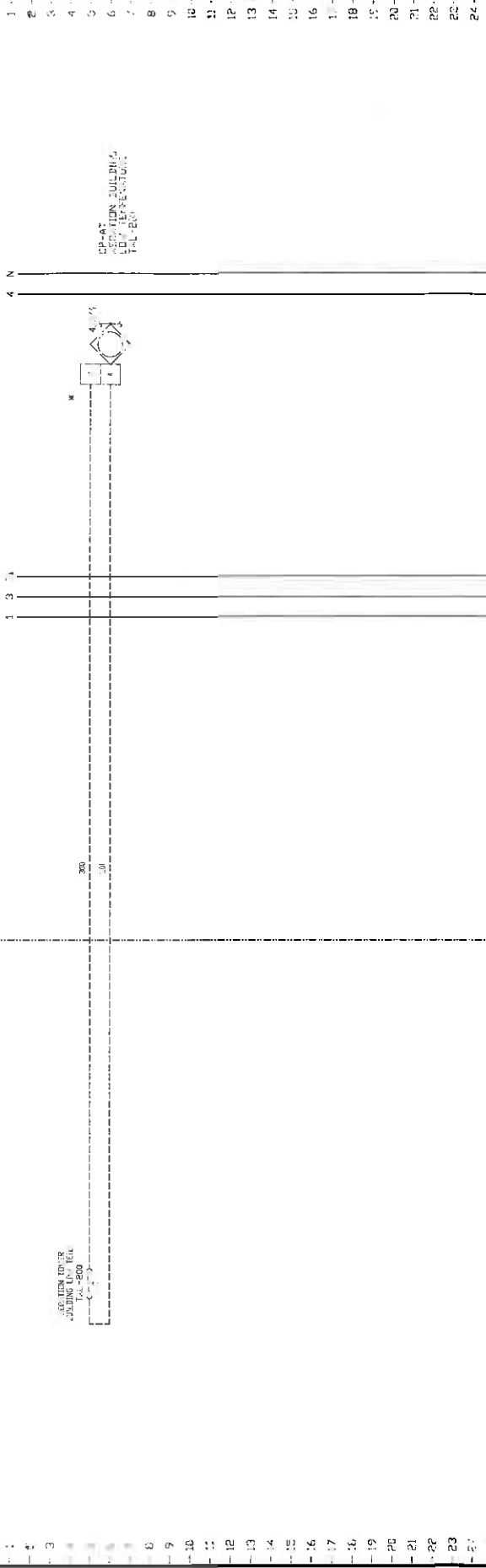
17000 Main Avenue North, Suite 100, Plymouth, MI 48170

PH: (313) 325-0000 FAX: (313) 325-0001 email: ics@icsinstrument.com

| DATE | | REVISION DESCRIPTION | | DATE | | PROJECT | |
|--------|--|----------------------|--|--------|--|-------------------------|--|
| 1/2/70 | | BUILT | | 1/2/70 | | QUINCY FIRM HATCHERY | |
| 1/3/71 | | REVISION | | 1/3/71 | | RELATION TO FIRM (C-11) | |
| | | | | | | PANEL ALPHAS | |
| | | | | | | CONTROL PANEL MOUNTING | |
| | | | | | | DWS NO. 102 | |

FIELD OR AS NEED

CONTROL PANEL



FOR NEW POWER
JULY 1998
TAL-200

C-24
TEMPERATURE
TAL-200

REVISION DESCRIPTION

DATE

ICS INSTRUMENT
CONTROL SYSTEMS

ICS INSTALLED
PRACKS
DURING STARTUP
1/2/01

ICS HEALY-RUFF
Instrument Control Systems, Inc.
17000 1st Ave. S.W.
Burien, OR 97149
Ph: (503) 863-8888 Fax: (503) 863-8887
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DATE 5/25/10
OWN 10
ENGR. 01
ASSEM. 01
SHEET 1 OF 25

PROJECT

QUINCY RIVER FISH HATCHERY

REVISION 10/25/01

PROJ. NO.

REVISION 10/25/01

PROJ. NO.

TEMPERATURE

DWG. NO.

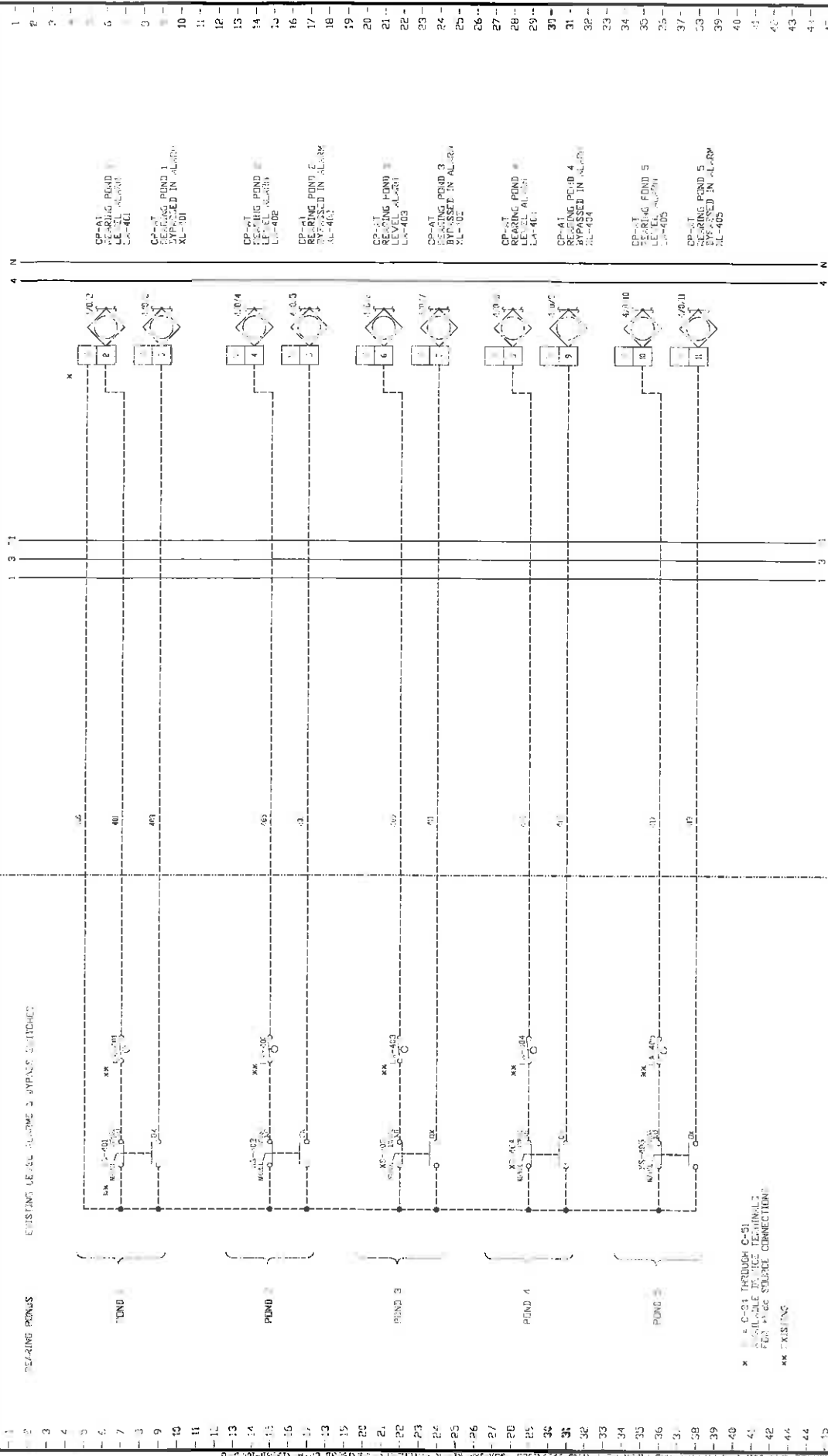
CONTROL POWER WIRING

103

FIELD OR AS NOTED

CONTROL PANEL

EXISTING LEVEL ALARMS & BYPASS SWITCHES



* C-01 THROUGH C-51
AVAILABLE TO THE TERMINALS
FOR WIRE SOURCE CONNECTION
** EXISTING

ICS
INSTRUMENT
CONTROL SYSTEMS

| DATE | REVISION DESCRIPTION |
|---------|----------------------|
| 8/21/00 | AS SHOWN |
| 1/20/01 | AS INSTALLED |

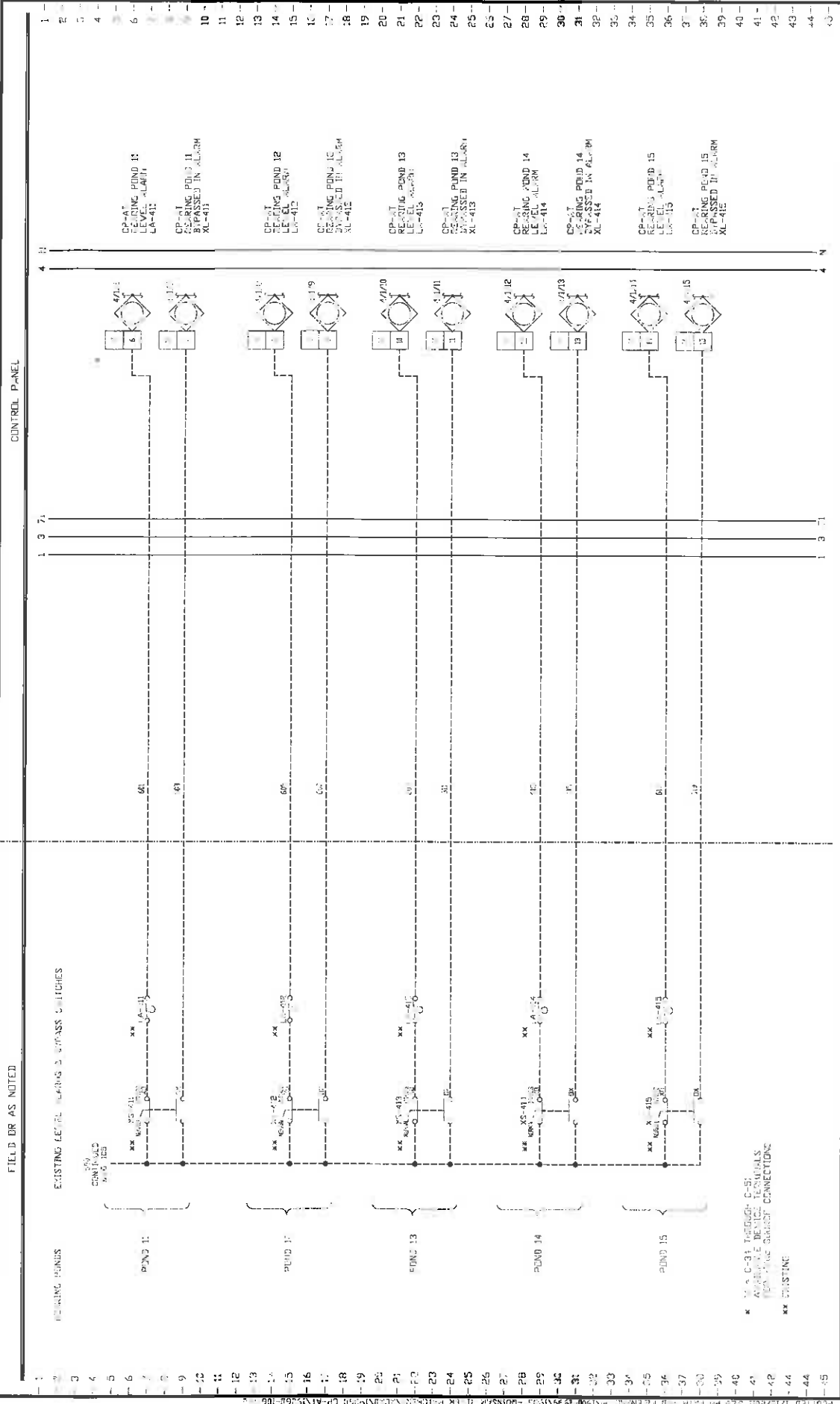
ICS HEALY-RUFF
Instrument Control Systems, Inc.
1000 The America North, Suite 100, Plymouth, MI 48170
PH: (734) 226-0000 FAX: (734) 226-0100 www.icshealyruff.com

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SYSTEMS, INC.

| DATE | BY | CHKD. | ENGR. | ASSEM. | SHEET |
|--------|----|-------|-------|--------|----------|
| 1/1/00 | CS | CS | CS | CS | 10 OF 72 |

PROJECT: QUINCY RIVER FISH HATCHERY
ATTENTION: TONER (C-01)
RECEIVING FENCE LEVEL ALARM
FENCE 1
CONTROL POWER WIRING

PROJ. NO. 11850
DWG. NO. 101



ICS INSTRUMENT CONTROL SYSTEMS

INSTALLATION DRAWINGS

1/25/71

ICS HEALY-RUFF

Instrument Control Systems, Inc.

1000 West Avenue, Suite 100, Pasadena, CA 91106

PH: (714) 791-1111 FAX: (714) 791-1112

DATE 1/25/71

ENGR. G. J. G. BUILT

ASSN. G. J. G. BUILT

SHEET 1 OF 22

PROJECT QUINCY RIVER FISH HATCHERY

PERFORMED BY CP-411

PERFORMED BY CP-412

PERFORMED BY CP-413

PERFORMED BY CP-414

PERFORMED BY CP-415

DATE 1/25/71

ENGR. G. J. G. BUILT

ASSN. G. J. G. BUILT

SHEET 1 OF 22

PROJECT QUINCY RIVER FISH HATCHERY

PERFORMED BY CP-411

PERFORMED BY CP-412

PERFORMED BY CP-413

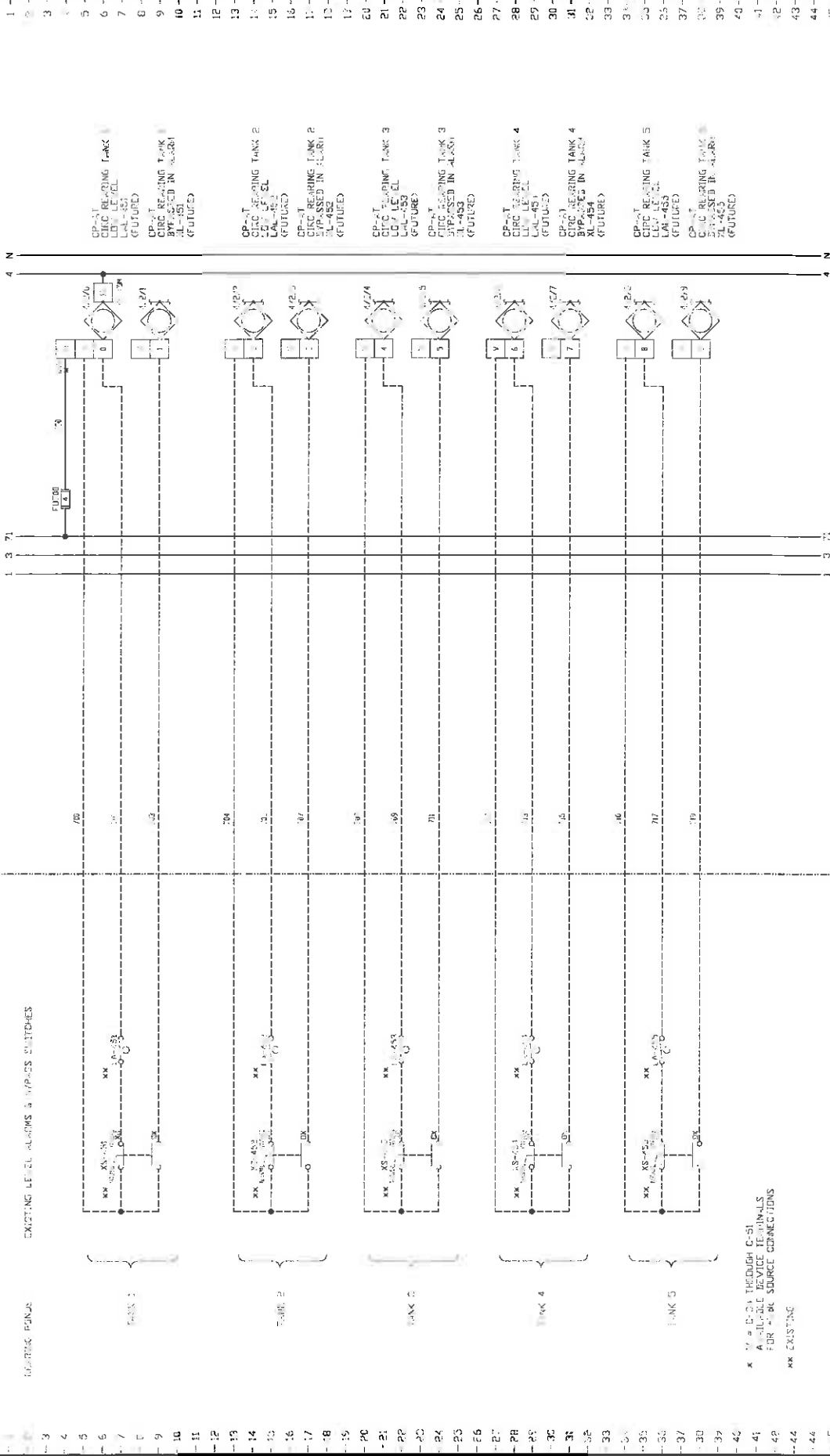
PERFORMED BY CP-414

PERFORMED BY CP-415

FIELD ELECTRICAL NOTED

CONTROL PANEL

EXISTING LEVEL READINGS & SWITCHES



AS INSTALLED
DRAWINGS
INSTRUMENT CONTROL SYSTEMS
17th Fl.

ICS
INSTRUMENT
CONTROL SYSTEMS

| DATE | REVISION DESCRIPTION |
|---------|----------------------|
| 2/25/70 | 7/11 E&E |
| 1/5/71 | 15, INST. A&D |

ICS HEALY-RUFF
Instrument Control Systems, Inc.
17th Fl. 1000 Ave. of the Americas, New York, N.Y. 10018
Tel: (212) 512-5500 Fax: (212) 512-5501 www.icshealy-ruff.com

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| DATE | BY | CHKD. | ENGR. | ASSEM. | SHEET |
|-----------|----|-------|-------|--------|-------|
| 13 OCT 12 | | | | | |

QUINCY POWER PLANT HISTORY
CIRC. READING TANK 1-5
LE. EL. AL. EL. TANK 1-5
CONTROL PANEL WIRING

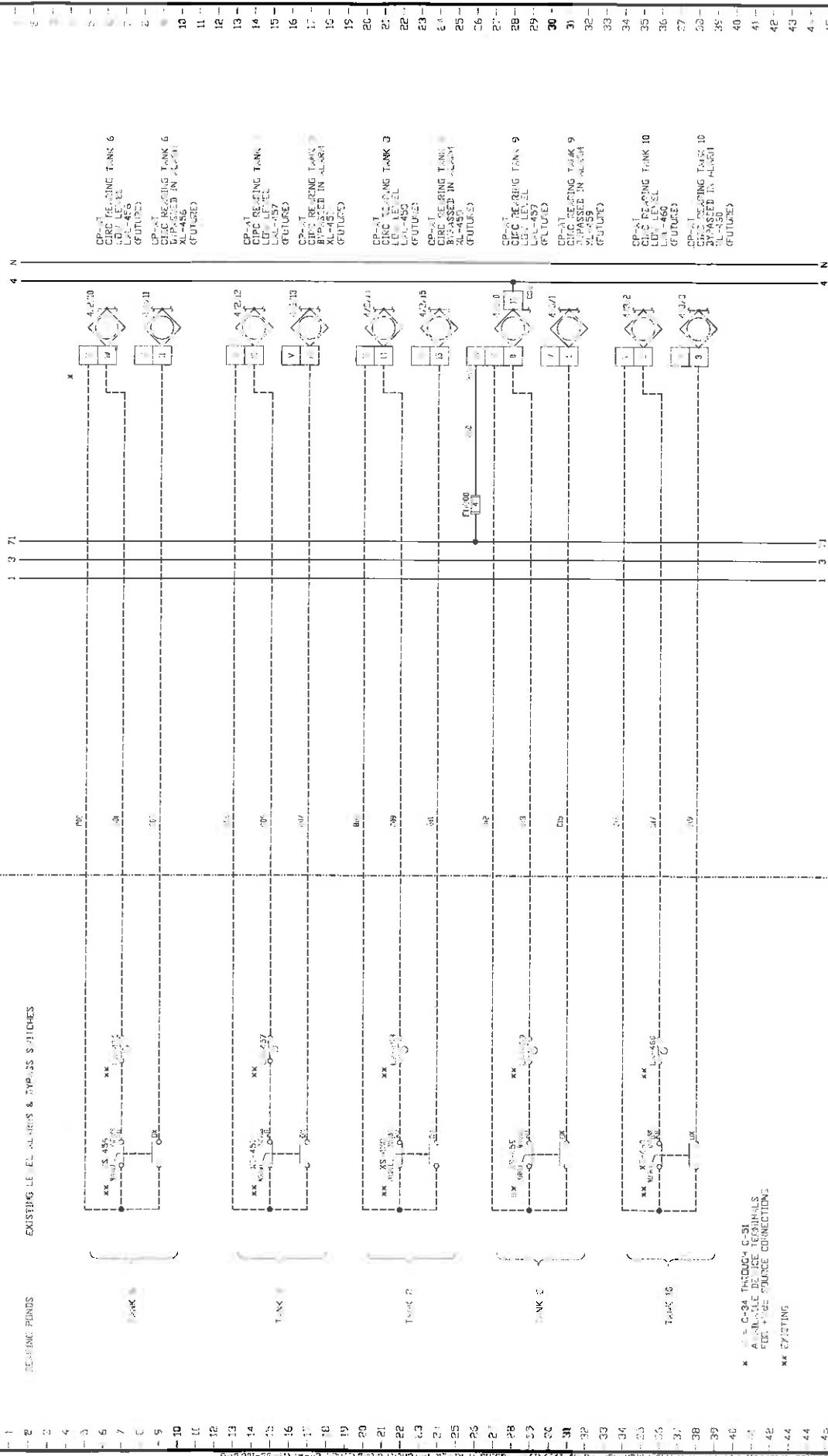
| PROJ. NO. | DWG. NO. |
|-----------|----------|
| 1000 | 100 |

FIELD OR AS NOTED

CONTROL PANEL

EXISTING LEVEL ALARMS & ZONE SWITCHES

RELAYING PUMPS



* C-34 THROUGH C-31
AVAILABLE DEVICE TERMINALS
FOR +12V SOURCE CONNECTIONS
** EXISTING

AS INSTALLED
DRAWINGS
FOR +12V SOURCE
CONNECTIONS
1/8" = 1'

ICS INSTRUMENT CONTROL SYSTEMS

DATE 1/28/00
1/28/01
1/28/01

REVISION DESCRIPTION
S-2001
S-2001
S-2001

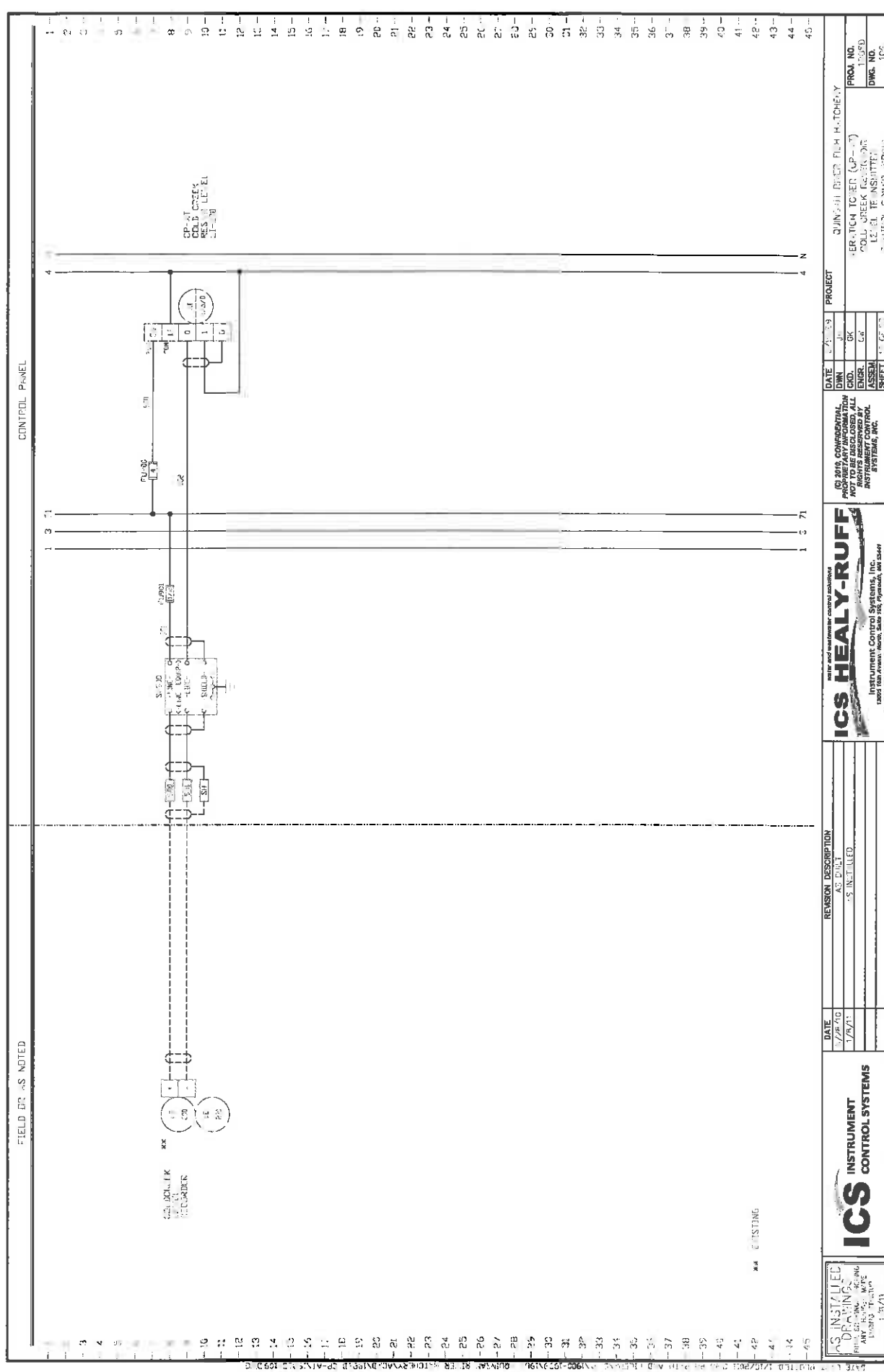
ICS HEALY-RUFF
Instrument Control Systems, Inc.
1000 100 Avenue South, Suite 100, Plymouth, MI 48170
PH: (313) 381-0000 FAX: (313) 381-0001 www.icshealy-ruff.com

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DATE 1/28/00
1/28/01
1/28/01

PROJECT
GUINEA BEEBEE HATCHERY
RELAYING TANK 6 (CP-AT)
RELAYING TANK 7 (CP-AT)
RELAYING TANK 8 (CP-AT)
RELAYING TANK 9 (CP-AT)
RELAYING TANK 10 (CP-AT)
RELAYING TANK 11 (CP-AT)

PROJ. NO. 1000
DWG. NO. 100



AS INSTALLED
DRAWING
REVISION
DATE
1/15/11

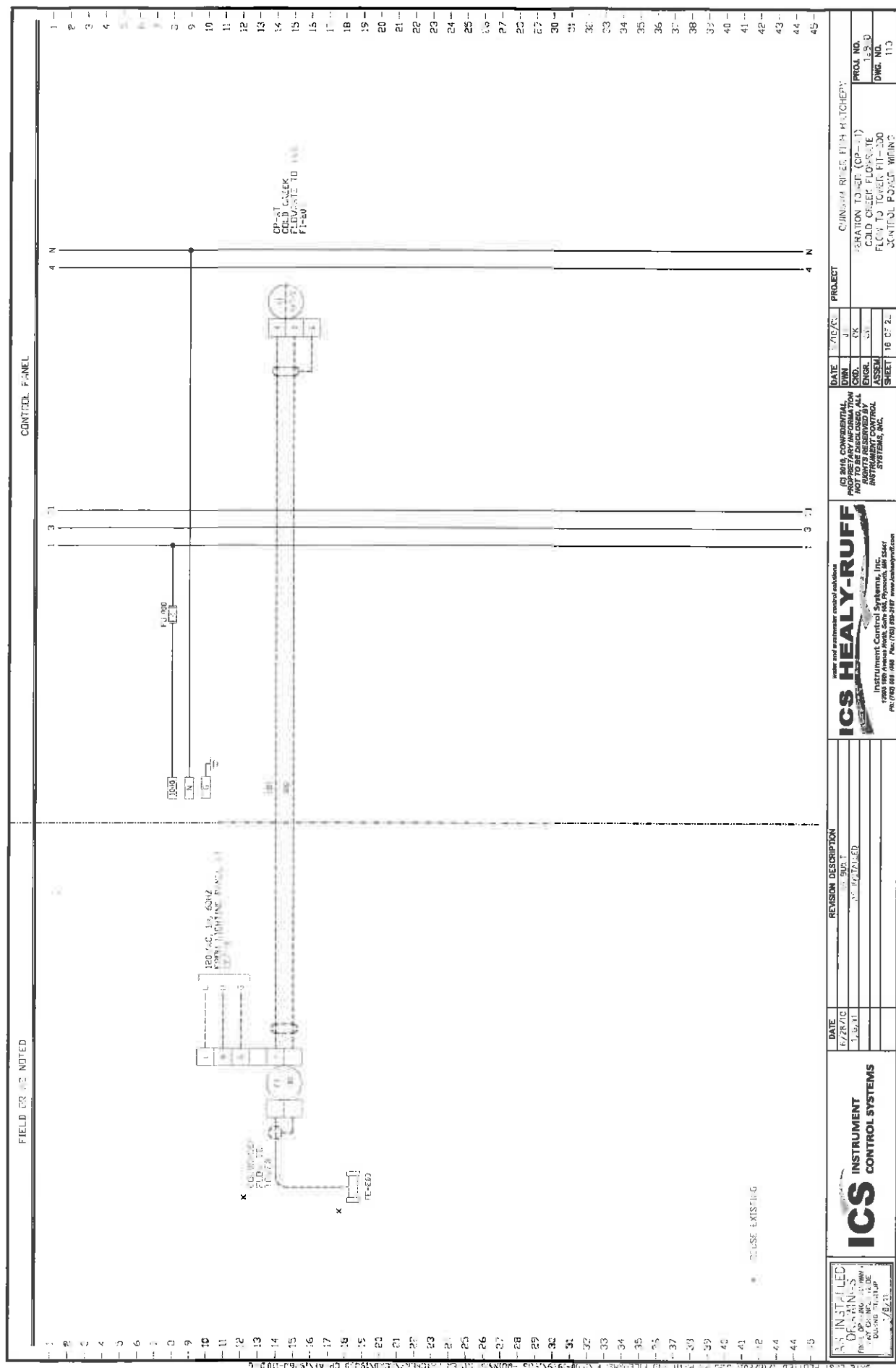
ICS
INSTRUMENT
CONTROL SYSTEMS

REVISION DESCRIPTION
AS SHOWN
AS INSTALLED

ICS HEALY-RUFF
Instrument Control Systems, Inc.
1000 River Avenue, Suite 100, Riverdale, MD 21158
PH: 410-326-1000 FAX: 410-326-1001

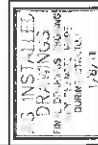
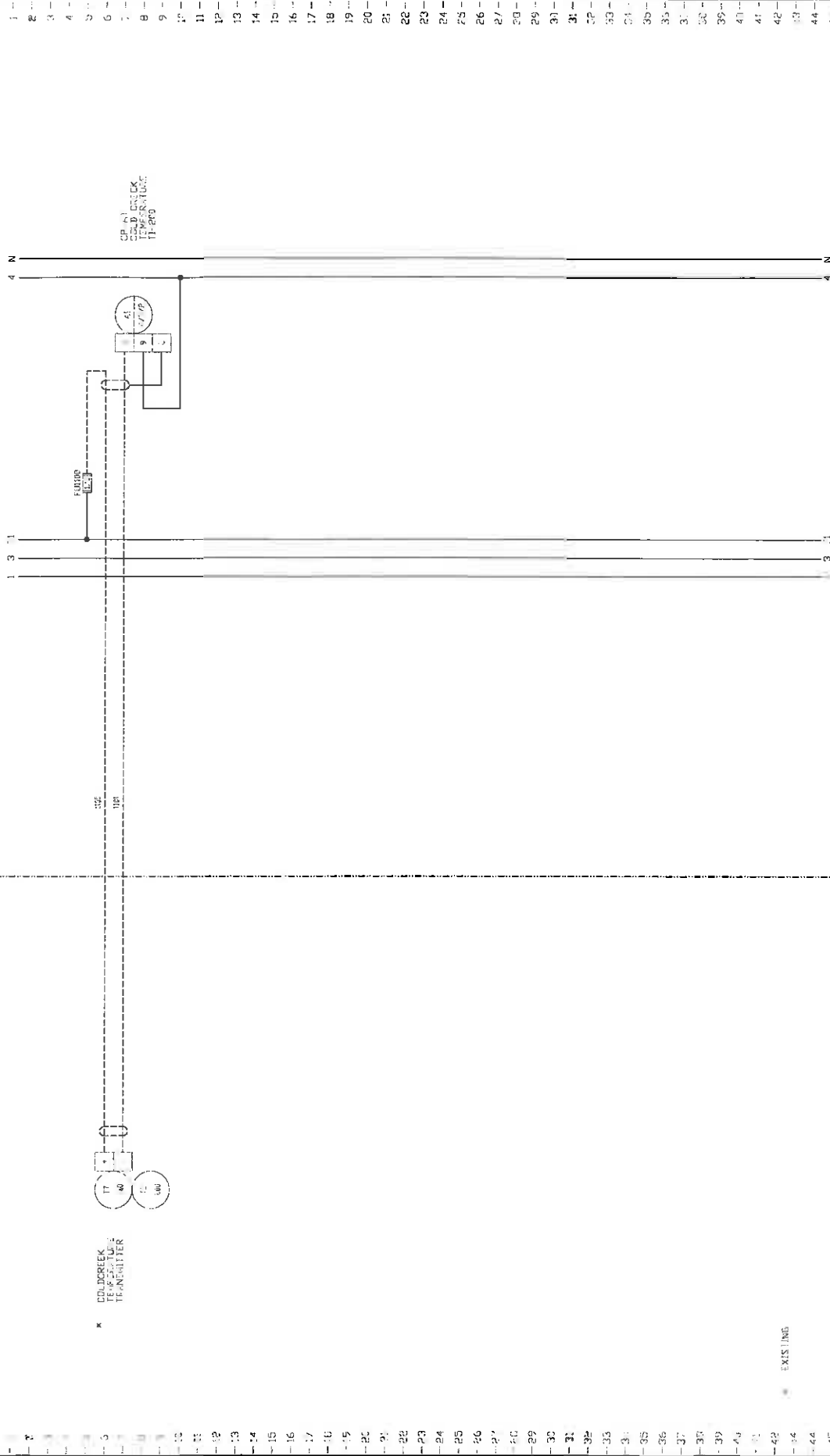
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SYSTEMS, INC.

DATE: 1/15/11
ENGR: J.C.
SHEET: 10 OF 10
PROJECT: QUINCY RIVER FLOW HATCHERY
OPERATION TO BE (P-1)
COLL. CREEK (P-1)
12.51.15 INSHUTTER
CONTROL PANEL WIRING
PROJ. NO. 1000
DWG. NO. 100



FIELD OR AS NOTED

CONTROL PANEL



ICS INSTRUMENT CONTROL SYSTEMS

| DATE | REVISION DESCRIPTION |
|---------|----------------------|
| 8/27/00 | AS BUILT |
| 1/28/01 | NOT ALLED |

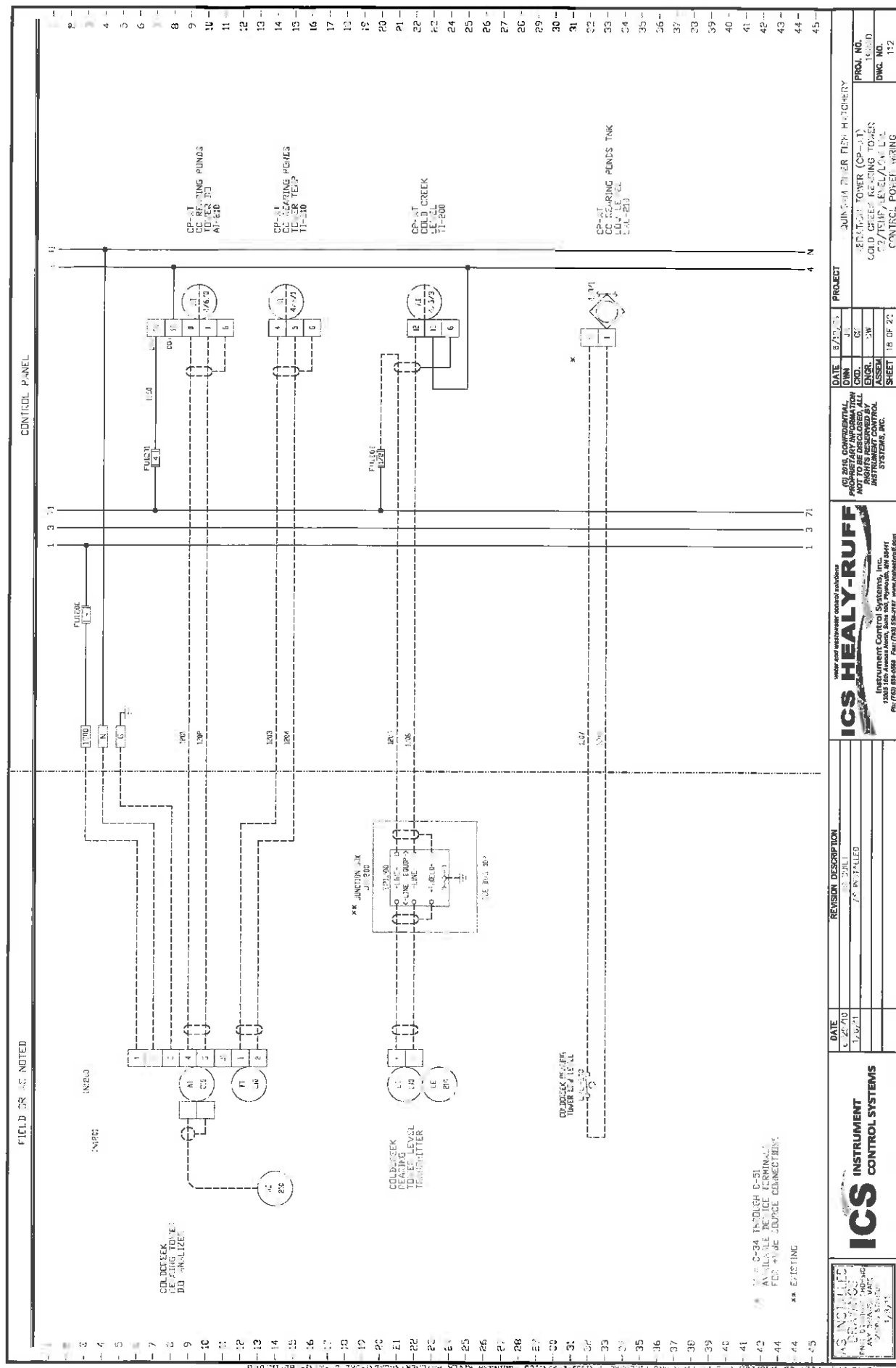


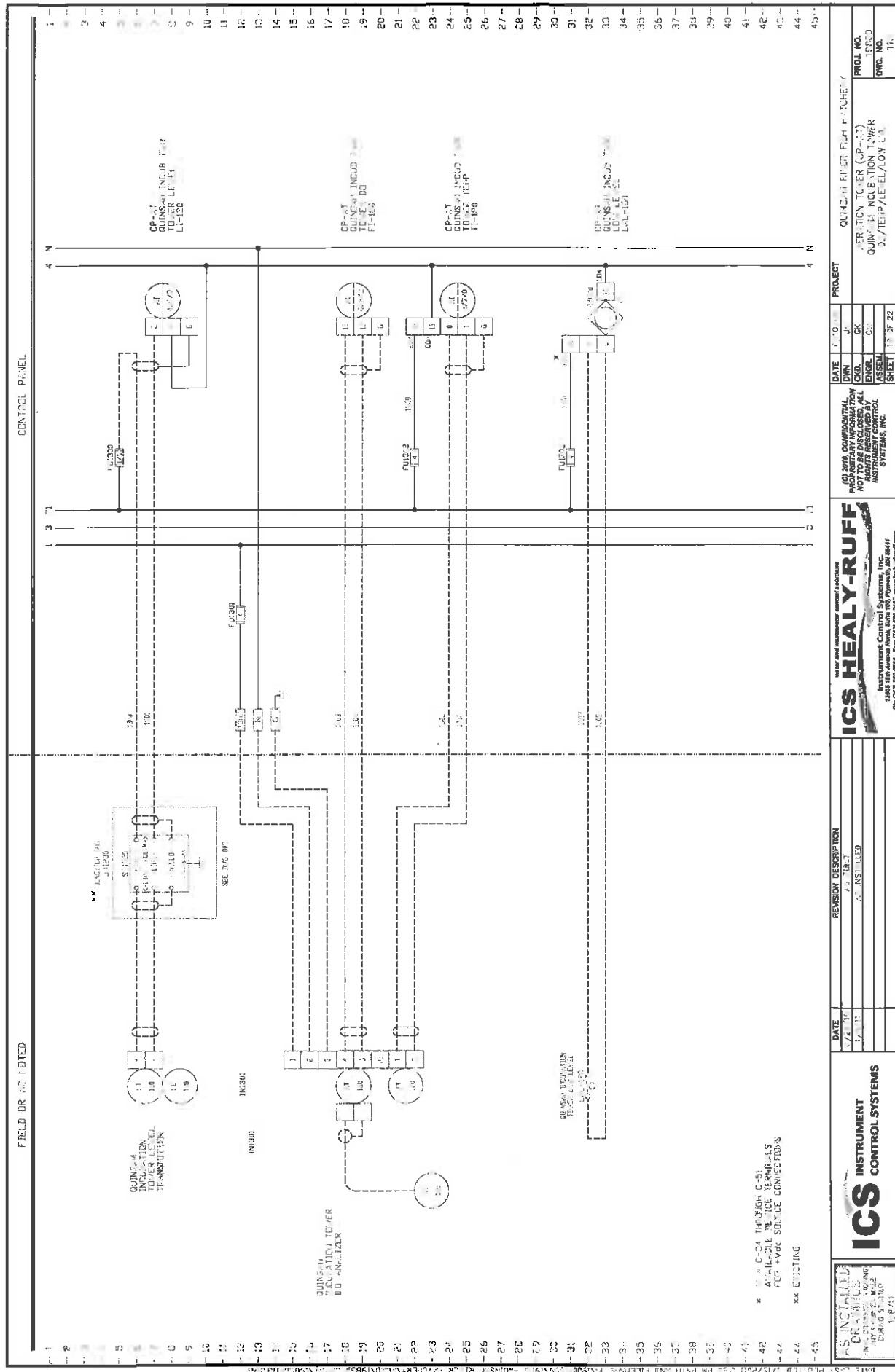
ICS HEALY-RUFF
Instrument Control Systems, Inc.
1000 West Avenue, Suite 100, Pomona, CA 91768
Ph: 909-786-0000, Fax: 909-786-0001, Email: sales@healy-ruff.com

| DATE | BY | CHKD. | ENGR. | ASSEM. | SHEET |
|---------|----|-------|-------|--------|----------|
| 8/27/00 | AT | GC | GC | | 17 OF 20 |

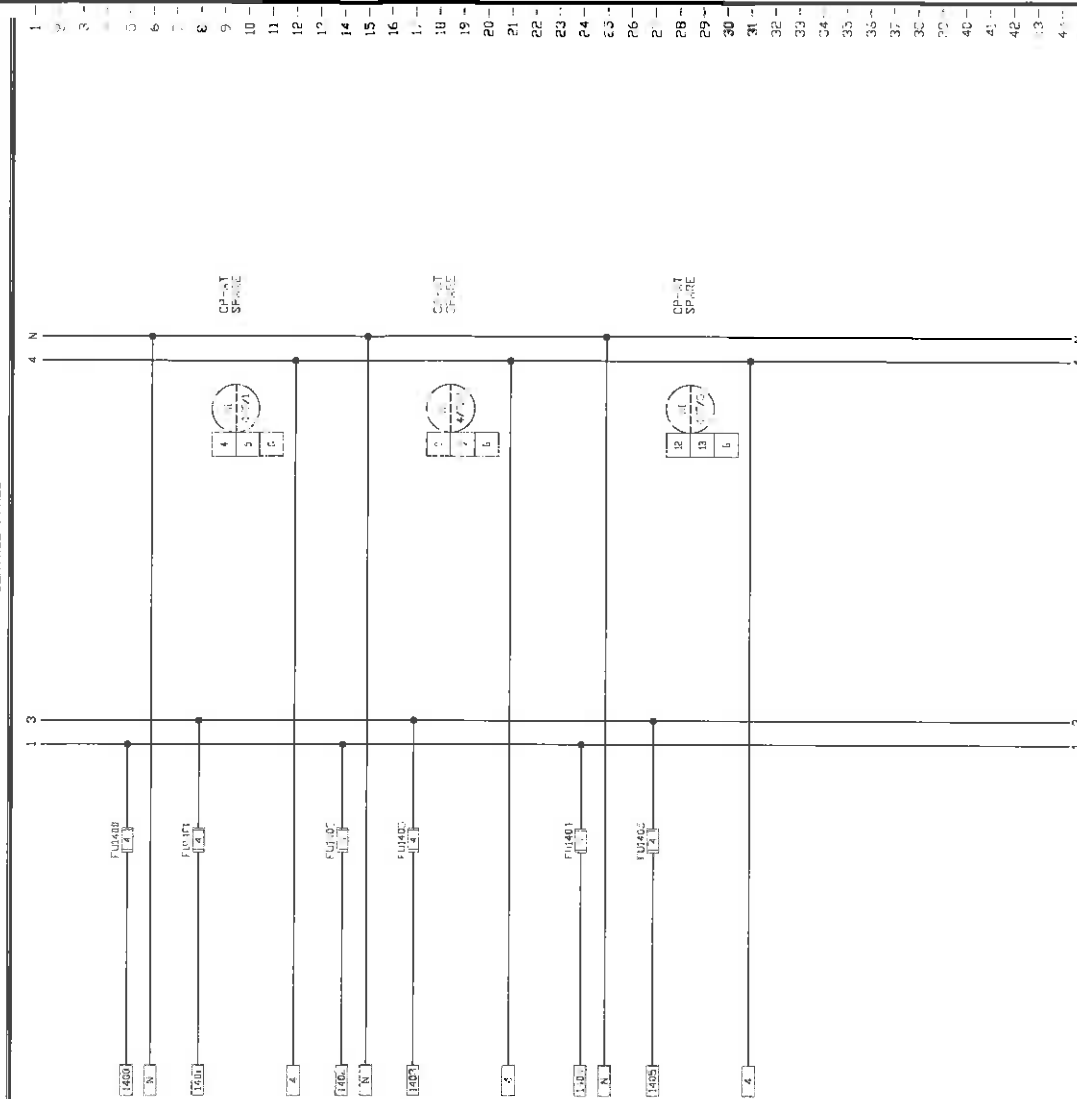
PROJECT
COLUMBIAN RIVER FISH HATCHERY
STATION TOWER TOP-17
COLUMBIAN RIVER FISH HATCHERY
EQUIP TO TOWER TIT-200
CONTROL PANEL WIRING

| PROJ. NO. | DWG. NO. |
|-----------|----------|
| 1540 | 111 |





CONTROL PANEL



| DATE | REVISION DESCRIPTION |
|---------|----------------------|
| 6/20/10 | 1.0001 |
| 1/15/11 | 2.0001 |
| | |
| | |

| | | |
|---|-------|----------|
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PROHIBIT REPRODUCTION
NOT TO BE REPRODUCED, ALL
RIGHTS RESERVED. INSTRUMENT
CONTROL SYSTEMS, INC. | DATE | 4/10/12 |
| | DWN | Je |
| | CKD | Cl |
| | ENGR | C |
| | ASSEM | |
| | SHEET | 25 OF 22 |

| | | | |
|---------|--------------------------|-------------------------|-------|
| PROJECT | QUINCY AREA PIER HISTORY | ACCRETION TOWER (GP-4T) | |
| | | DOME ANALOG INPUT | |
| | | CONTROL PANEL MIPING | |
| | | PROJ. NO. | 1583D |
| | | DWG. NO. | 114 |

FIELD OR IS NOTED

CONTROL PANEL.

[illegible]

IS INSTALLED
DEFINING
IN L. J. AND SR. AND
NY. COUNCIL. STATE
PLANNING BOARD
1/16/71

ICS INSTRUMENT CONTROL SYSTEMS

| DATE | REVISION DESCRIPTION |
|---------|----------------------|
| 5/20/00 | AS BUILT |
| 1/10/11 | RE-INSTALLED |

use for self-administered control medicine

ICS HEALY-RUFF

Instrument Control Systems, Inc.
13005 94th Avenue North, Suite 100, Plymouth, MI 48149
Ph: (734) 921-0518 Fax: (734) 921-2167 www.icshealy-ruff.com

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| | |
|-------|----------|
| DATE | 6/11/22 |
| DWN | |
| CKD. | GA |
| ENGR. | GA |
| ASSEM | |
| SHEET | 21 OF 22 |

PROJECT

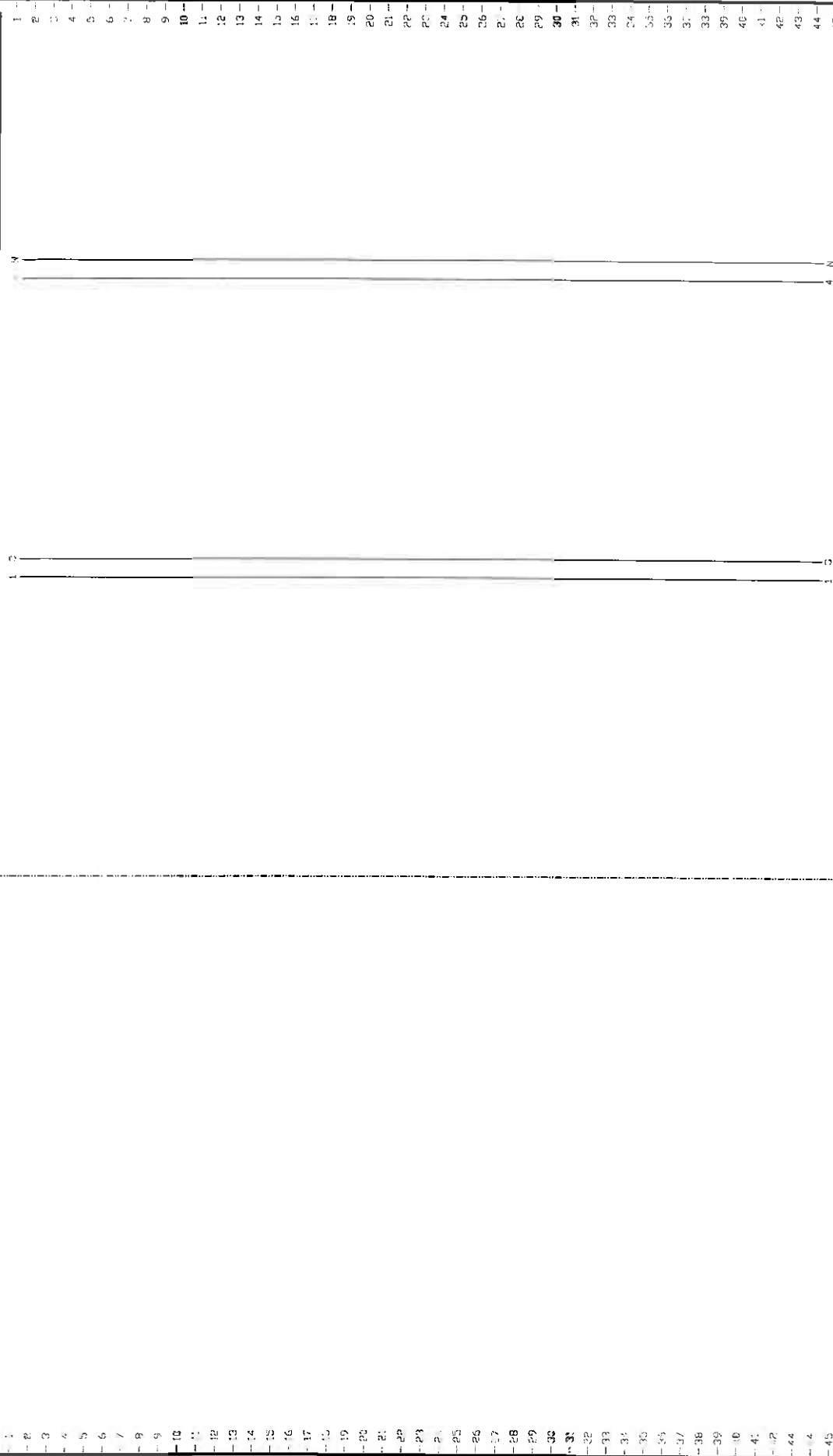
QUINCY J. PIERCE, FIRM FOUNDER

GENERATION TOWER, (CFR-CT)
EXTRA DIGITAL INPUTS
CONTROL POWER WINDING

| | |
|-----------|-------|
| PROJ. NO. | 11060 |
| DWG. NO. | 115 |

FIELD OR AS NOTED

CONTROL PANEL



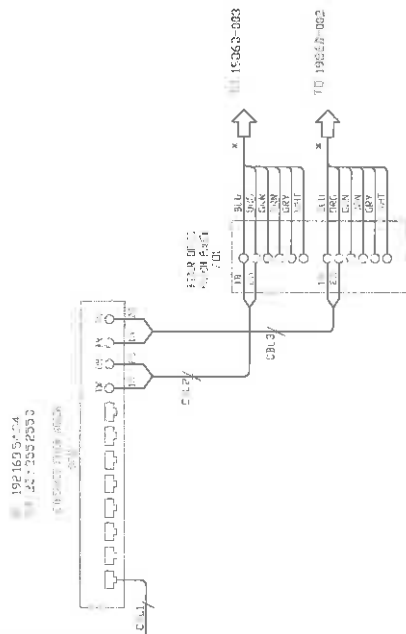
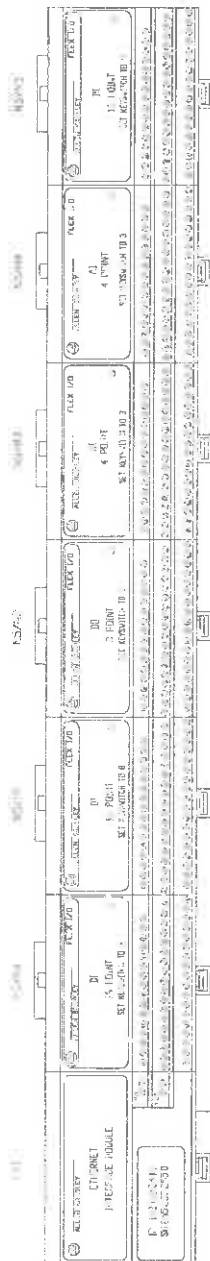
| DATE | REVISION DESCRIPTION |
|--------|----------------------|
| 1/1/00 | 1. INITIAL |
| 1/1/00 | 2. REVISED |
| 1/1/00 | 3. REVISED |
| 1/1/00 | 4. REVISED |
| 1/1/00 | 5. REVISED |
| 1/1/00 | 6. REVISED |
| 1/1/00 | 7. REVISED |
| 1/1/00 | 8. REVISED |
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| 1/1/00 | 10. REVISED |
| 1/1/00 | 11. REVISED |
| 1/1/00 | 12. REVISED |
| 1/1/00 | 13. REVISED |
| 1/1/00 | 14. REVISED |
| 1/1/00 | 15. REVISED |
| 1/1/00 | 16. REVISED |
| 1/1/00 | 17. REVISED |
| 1/1/00 | 18. REVISED |
| 1/1/00 | 19. REVISED |
| 1/1/00 | 20. REVISED |
| 1/1/00 | 21. REVISED |
| 1/1/00 | 22. REVISED |
| 1/1/00 | 23. REVISED |
| 1/1/00 | 24. REVISED |
| 1/1/00 | 25. REVISED |
| 1/1/00 | 26. REVISED |
| 1/1/00 | 27. REVISED |
| 1/1/00 | 28. REVISED |
| 1/1/00 | 29. REVISED |
| 1/1/00 | 30. REVISED |
| 1/1/00 | 31. REVISED |
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| 1/1/00 | 33. REVISED |
| 1/1/00 | 34. REVISED |
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| 1/1/00 | 38. REVISED |
| 1/1/00 | 39. REVISED |
| 1/1/00 | 40. REVISED |
| 1/1/00 | 41. REVISED |
| 1/1/00 | 42. REVISED |
| 1/1/00 | 43. REVISED |
| 1/1/00 | 44. REVISED |
| 1/1/00 | 45. REVISED |

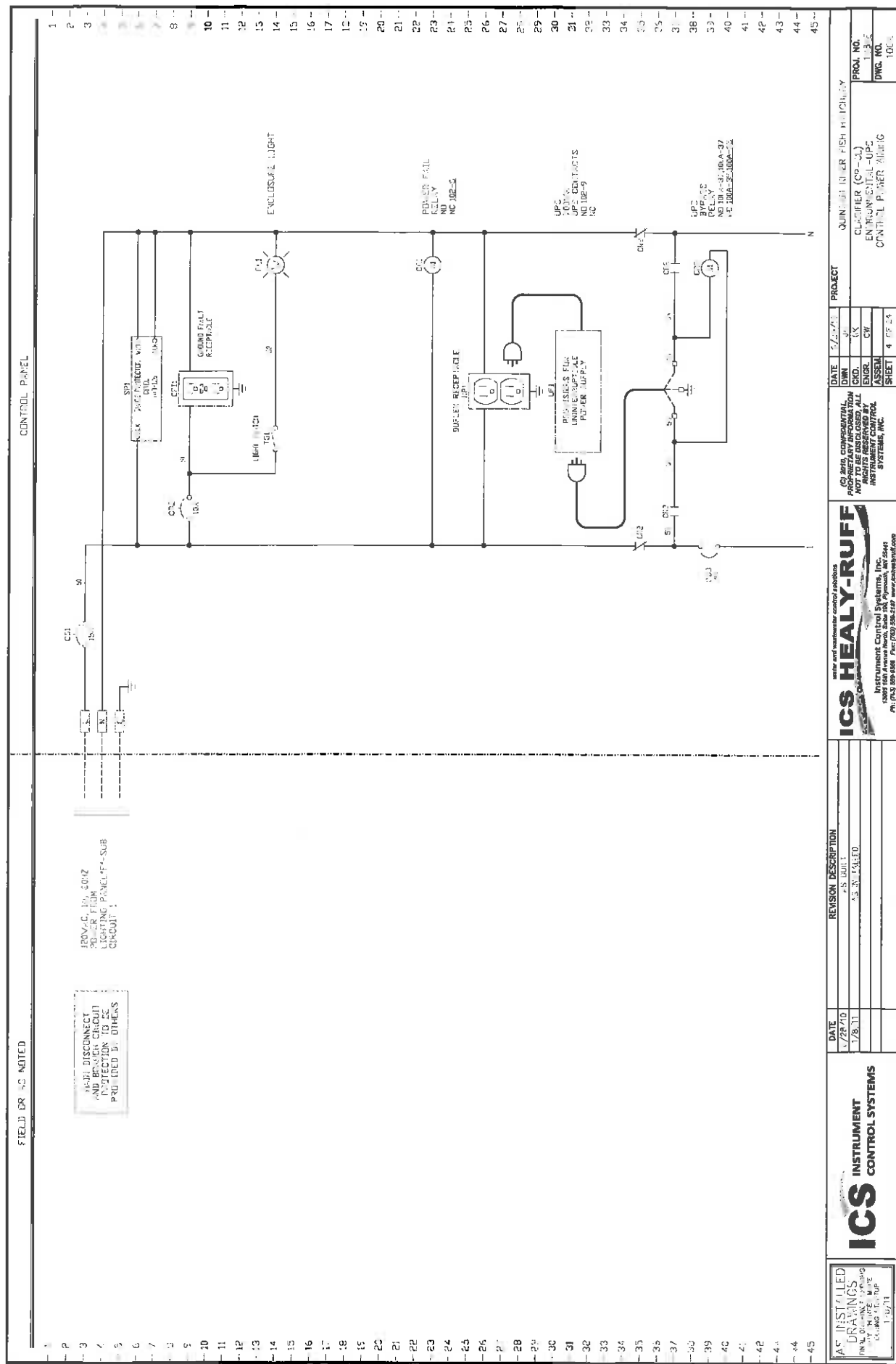
ICS HEALY-RUFF
water and wastewater control solutions
Instrument Control Systems, Inc.
1000 West Avenue North, Suite 100, Pasadena, CA 91106
PH: (818) 799-0000 FAX: (818) 799-0001 www.icshealy-ruff.com

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SYSTEMS, INC.

| DATE | DATE | PROJECT |
|--------|--------|--------------------------|
| 1/1/00 | 1/1/00 | QUINCY WATER FILT. PLANT |
| 1/1/00 | 1/1/00 | 2. REVISED |
| 1/1/00 | 1/1/00 | 3. REVISED |
| 1/1/00 | 1/1/00 | 4. REVISED |
| 1/1/00 | 1/1/00 | 5. REVISED |
| 1/1/00 | 1/1/00 | 6. REVISED |
| 1/1/00 | 1/1/00 | 7. REVISED |
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| 1/1/00 | 1/1/00 | 39. REVISED |
| 1/1/00 | 1/1/00 | 40. REVISED |
| 1/1/00 | 1/1/00 | 41. REVISED |
| 1/1/00 | 1/1/00 | 42. REVISED |
| 1/1/00 | 1/1/00 | 43. REVISED |
| 1/1/00 | 1/1/00 | 44. REVISED |
| 1/1/00 | 1/1/00 | 45. REVISED |

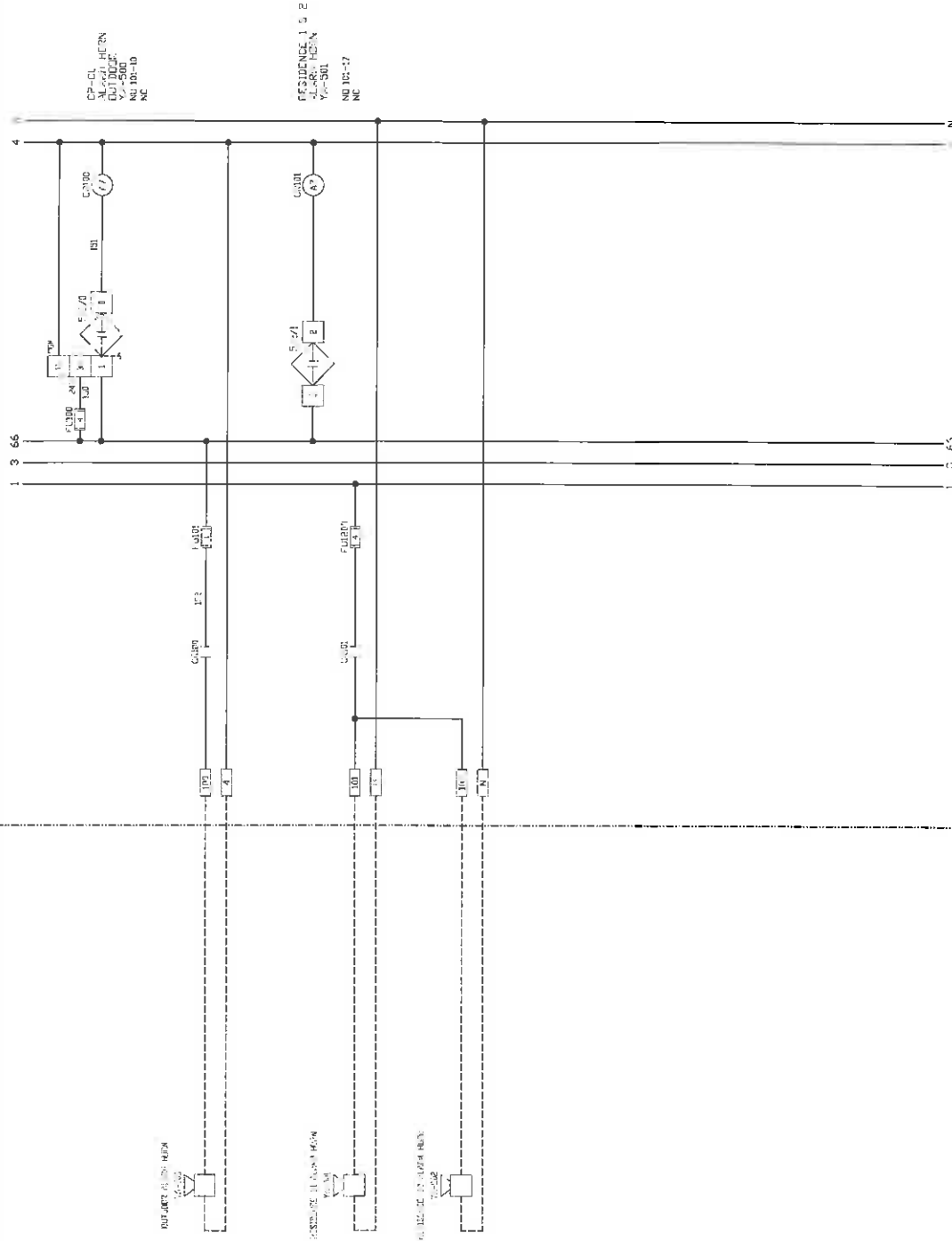
PROJ. NO. 1000
DWS. NO. 116

[illegible][illegible]



FIELD OR AS NOTED

CONTROL PANEL



NOTED
DRAWING
BY
DATE

ICS
INSTRUMENT
CONTROL SYSTEMS

DATE
2/20/11
5/11/11
5/11/11

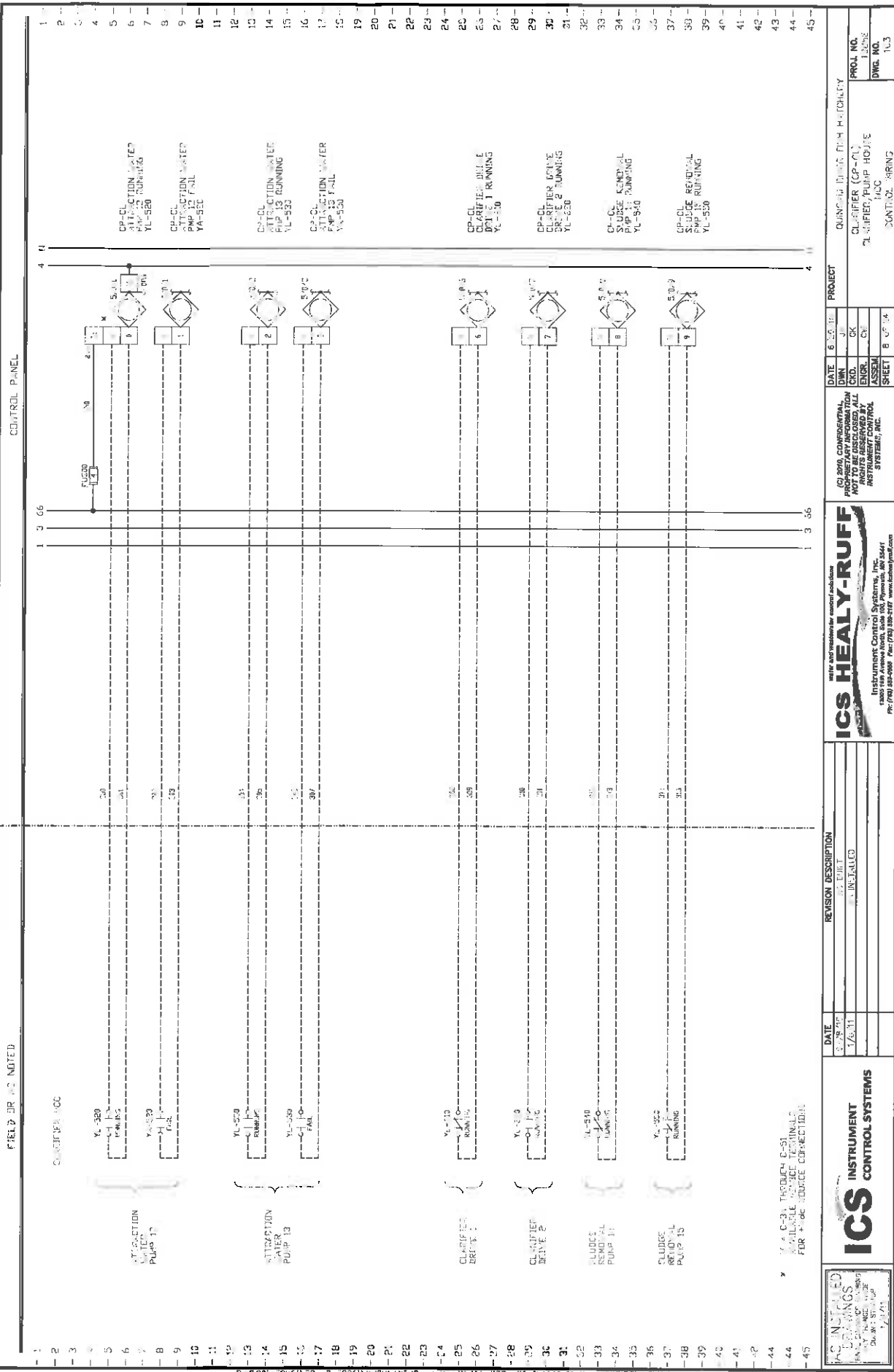
ICS HEALY-RUFF
Instrument Control Systems, Inc.
1000 Lawrence Street, Suite 100, Plymouth, MI 48170
Ph: (734) 335-0000 Fax: (734) 335-0000 www.icshealy-ruff.com

ICS HEALY-RUFF
INSTRUMENT CONTROL SYSTEMS, INC.
NOT TO BE USED FOR ANY OTHER PROJECT
ALL RIGHTS RESERVED BY INSTRUMENT CONTROL SYSTEMS, INC.

DATE
2/20/11
5/11/11
5/11/11

PROJECT
JUNIOR RIVER FISH HATCHERY
CLIENT
CLIFFER (LP-CL)
JUNIOR RIVER FISH HATCHERY
CANTONAL POWER PLANT

PROJ. NO.
100
DWG. NO.
100



FIELD OR NOTED

CONTROL PANEL

ICS
INSTRUMENT CONTROL SYSTEMS

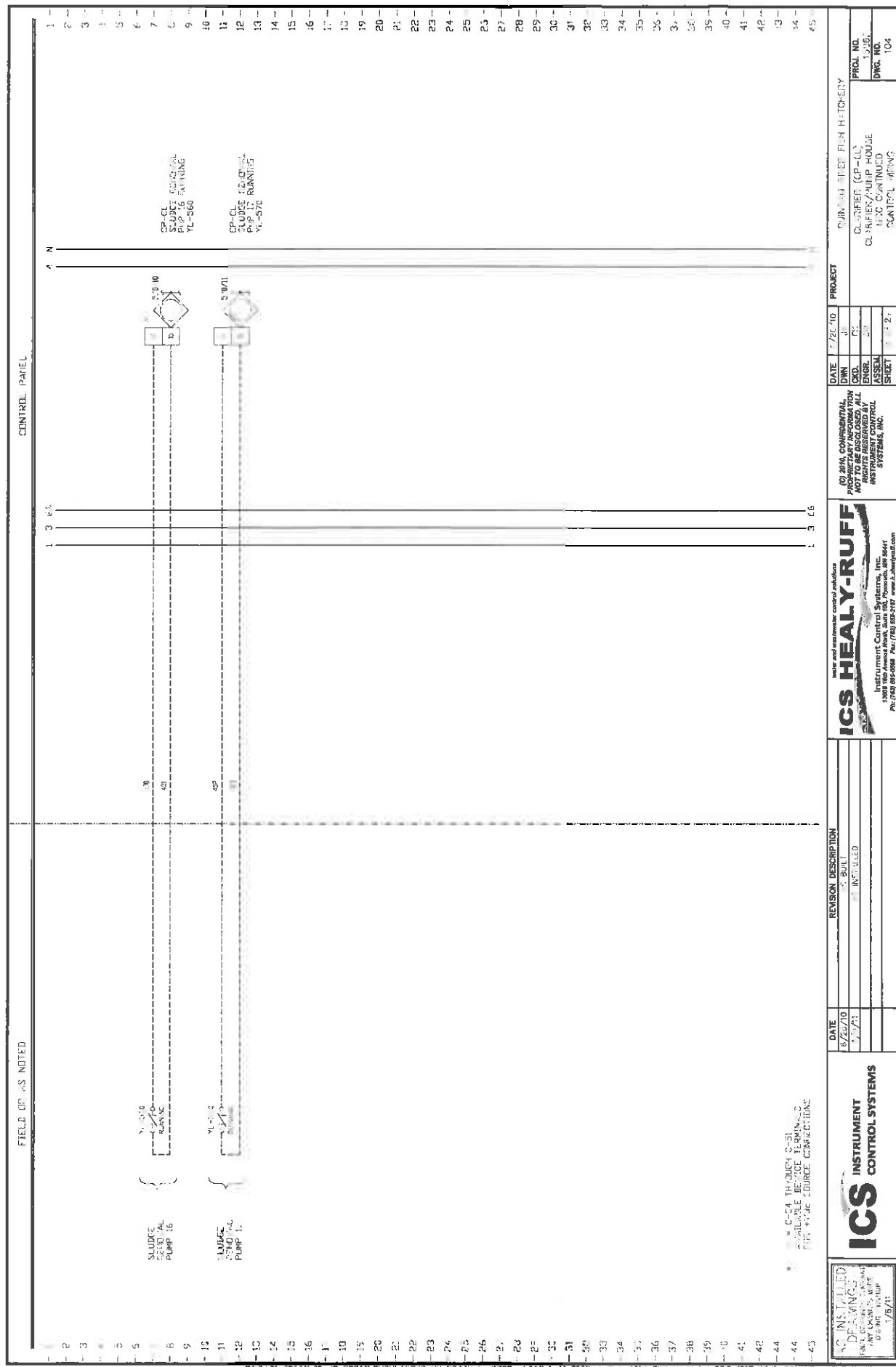
DATE: 1/6/11
BY: [Signature]
CHECKED: [Signature]
APPROVED: [Signature]

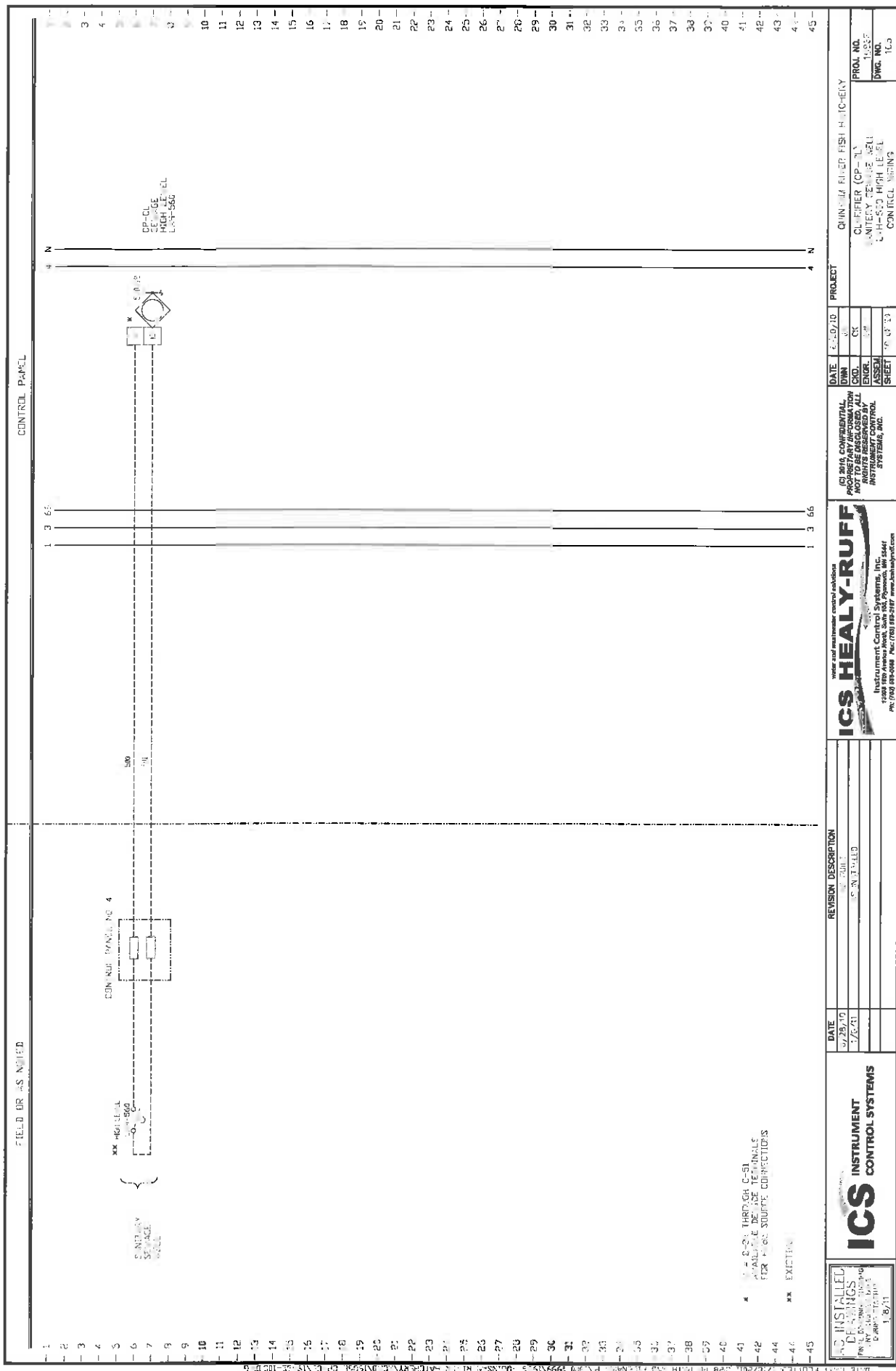
| DATE | REVISION DESCRIPTION |
|--------|----------------------|
| 1/6/11 | 1. INITIAL |

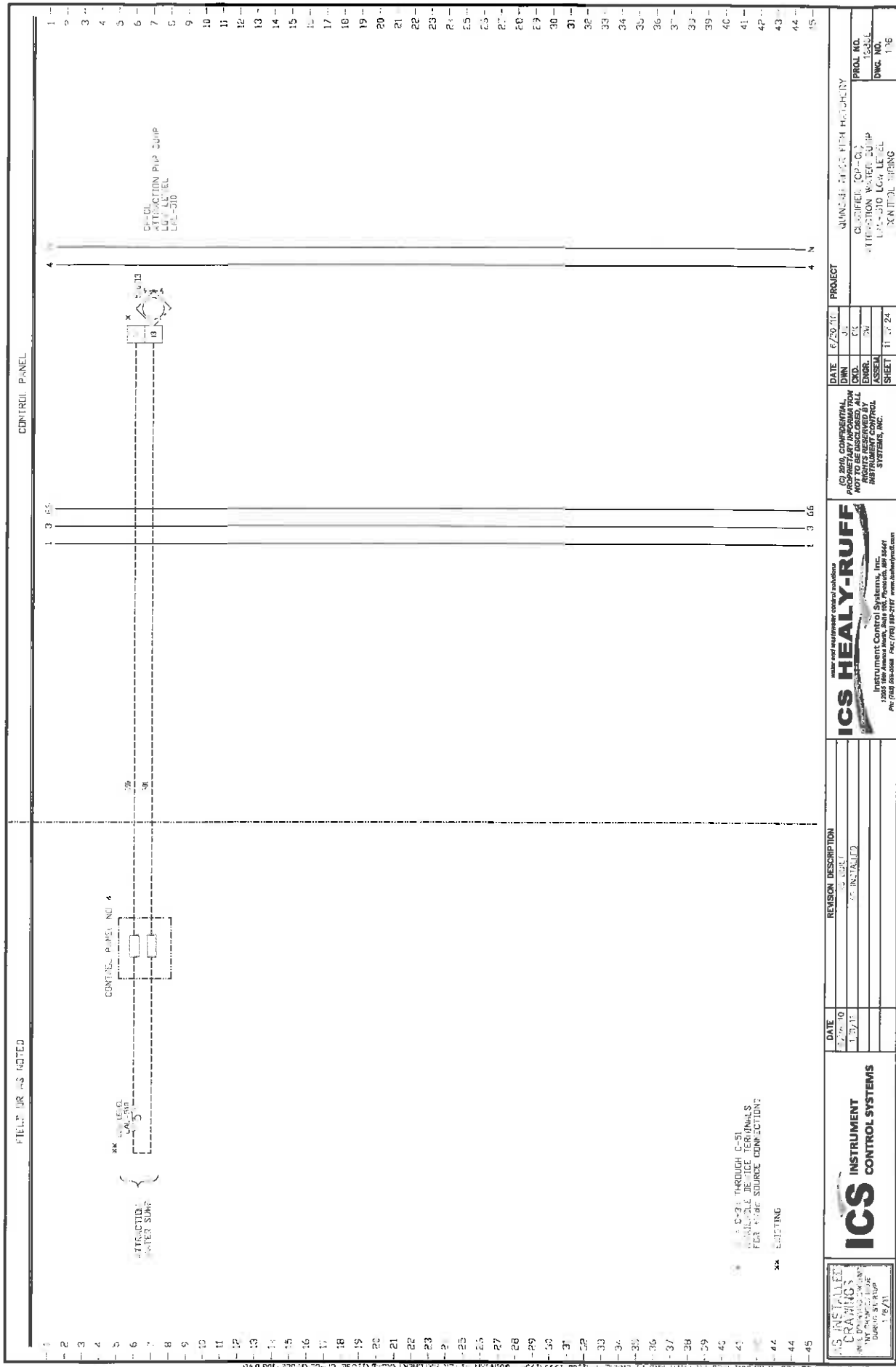
ICS HEALY-RUFF
Instrument Control Systems, Inc.
12000 1st Avenue North, Suite 100, Plymouth, MI 48178
Ph: 734.335.5555 Fax: 734.335.5555 www.icshealy-ruff.com

| | | | |
|-----------|---------|----------------------|--------------------------|
| DATE | 6/20/11 | PROJECT | QUINCY DAM HIGH PRIORITY |
| ENGR. | OK | CLARIFIER (CP-CL) | CLARIFIER PUMP HOUSE |
| ASSEM. | OK | CLARIFIER PUMP HOUSE | CLARIFIER PUMP HOUSE |
| SHEET | 8 OF 14 | CONTROL - SRING | CONTROL - SRING |
| PROJ. NO. | 10008 | DWG. NO. | 10.3 |

IF A C-3A THROUGH C-51
AVAILABLE, RE-USE TERMINALS
FOR FLOW SOURCE CONNECTION





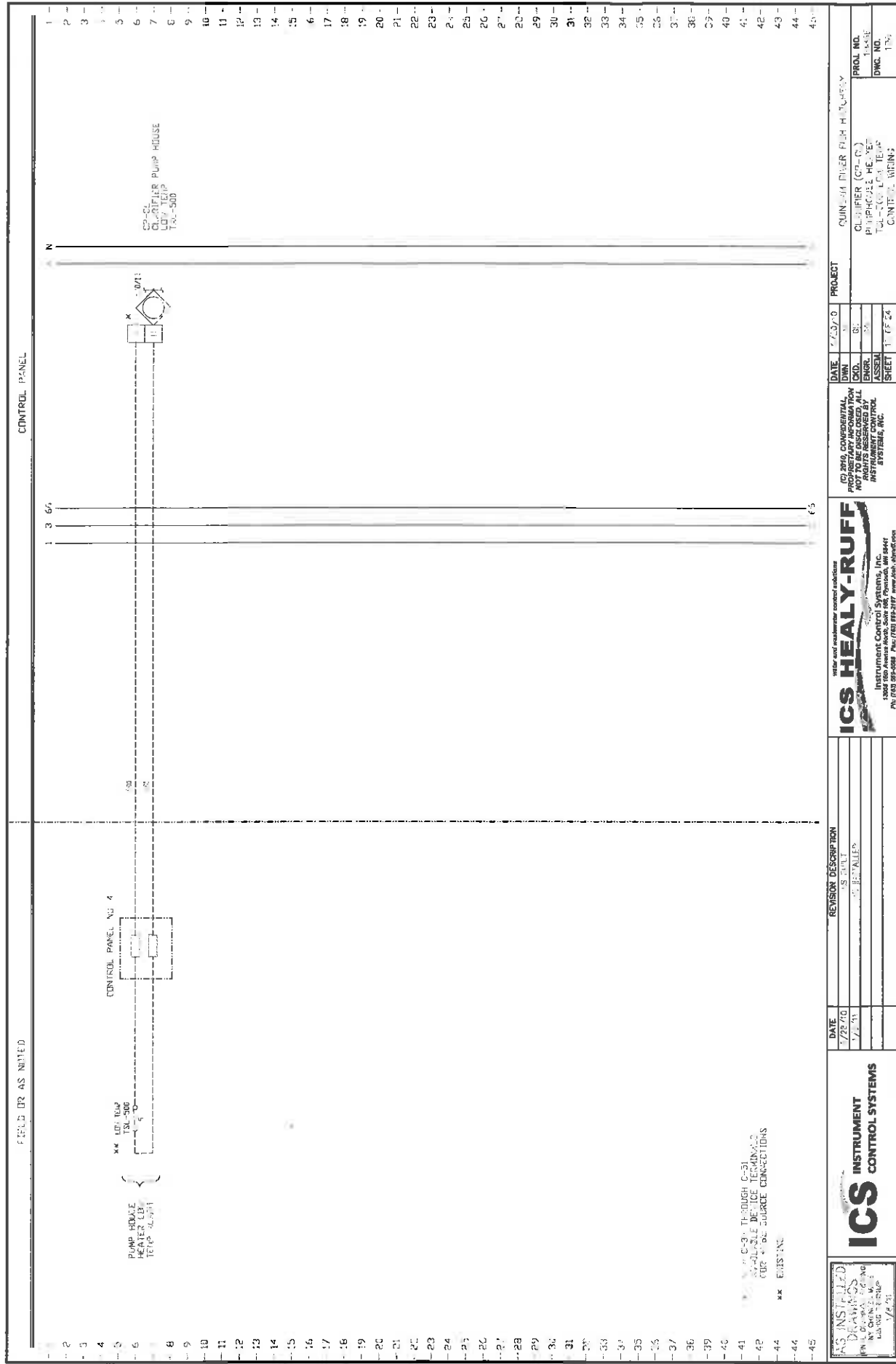


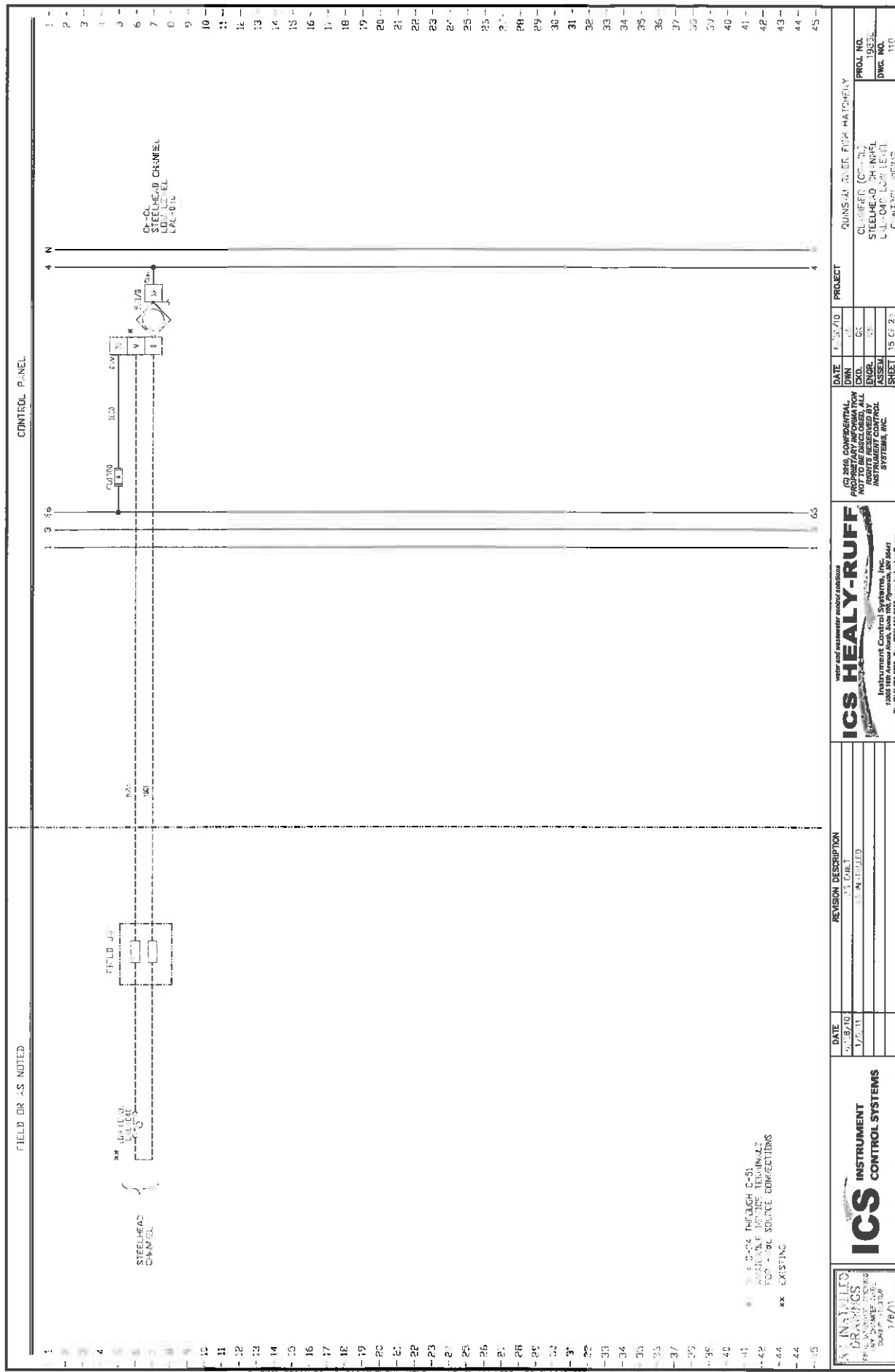
ICS INSTRUMENT CONTROL SYSTEMS
 DRAWING NO. 100-100-100
 DATE 1/1/10

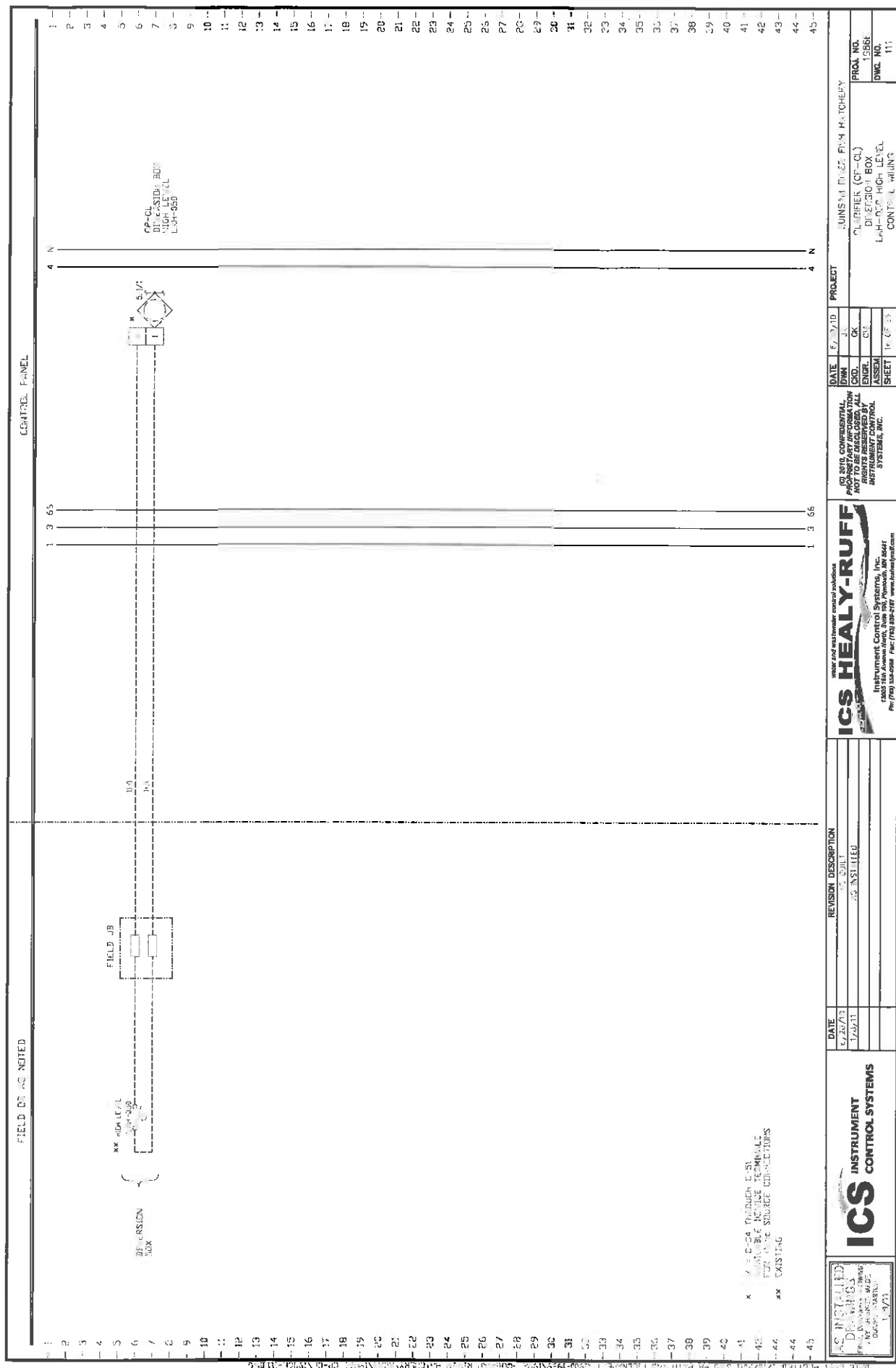
ICS HEALY-RUFF
 Instrument Control Systems, Inc.
 100-100-100
 Ph: 708-333-3333 Fax: 708-333-3333

PROJECT
 QUINCY RIVER FIRM FACILITY
 CLIFFSIDE TOP OF
 ATTENTION: WATER SUPPLY
 100-100-100
 100-100-100

DATE 6/20/10
DATE 6/20/10
DATE 6/20/10
DATE 6/20/10

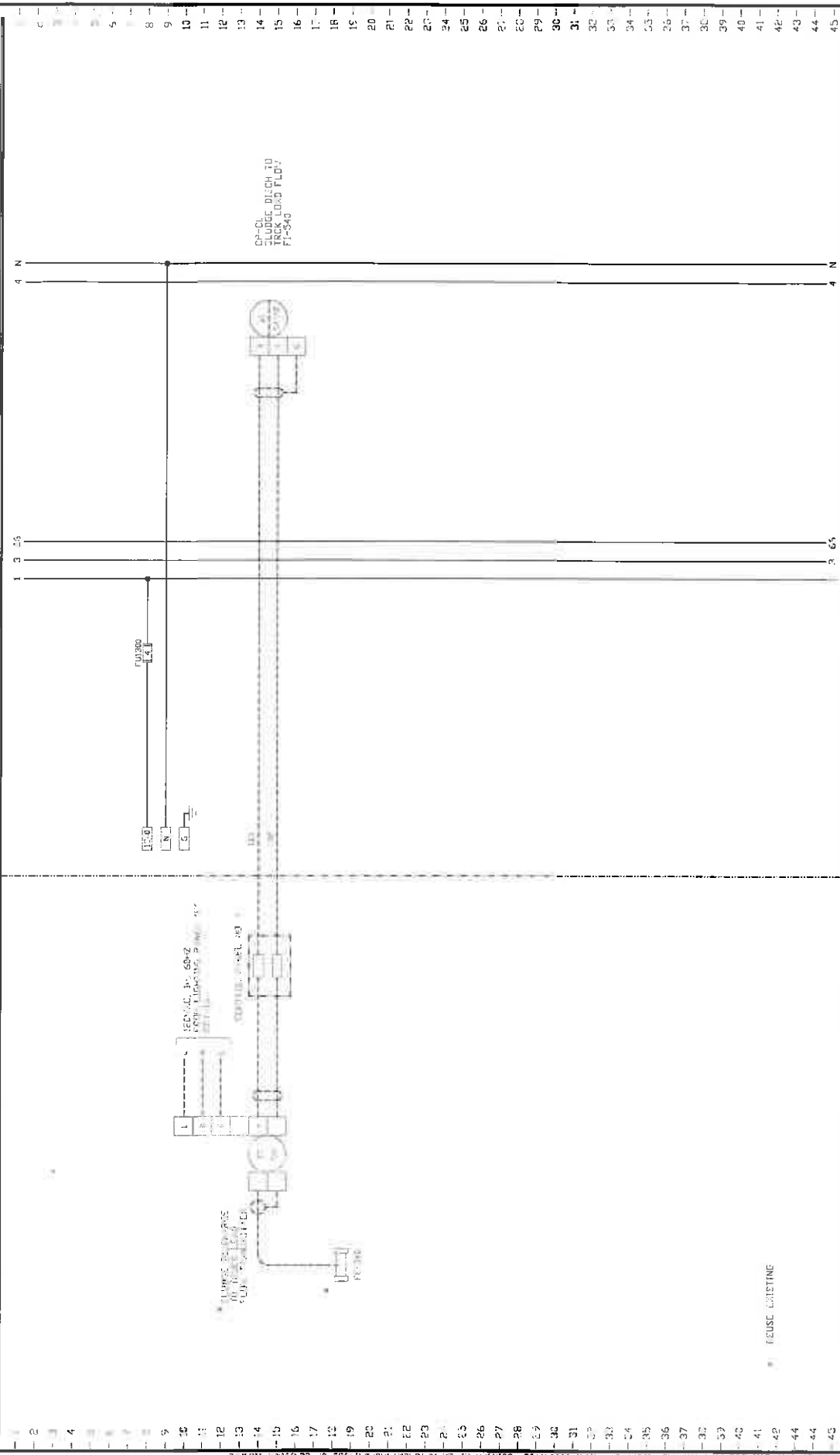






FIELD OF AS NOTED

CONTROL PANEL



AS INSTALLED
DRAWINGS
DATE 1/18/01
BY J. M. S. J.

ICS INSTRUMENT
CONTROL SYSTEMS

| DATE | REVISION DESCRIPTION |
|---------|----------------------|
| 1/18/01 | AS BUILT |
| | 5 INCHES |

water and wastewater control systems

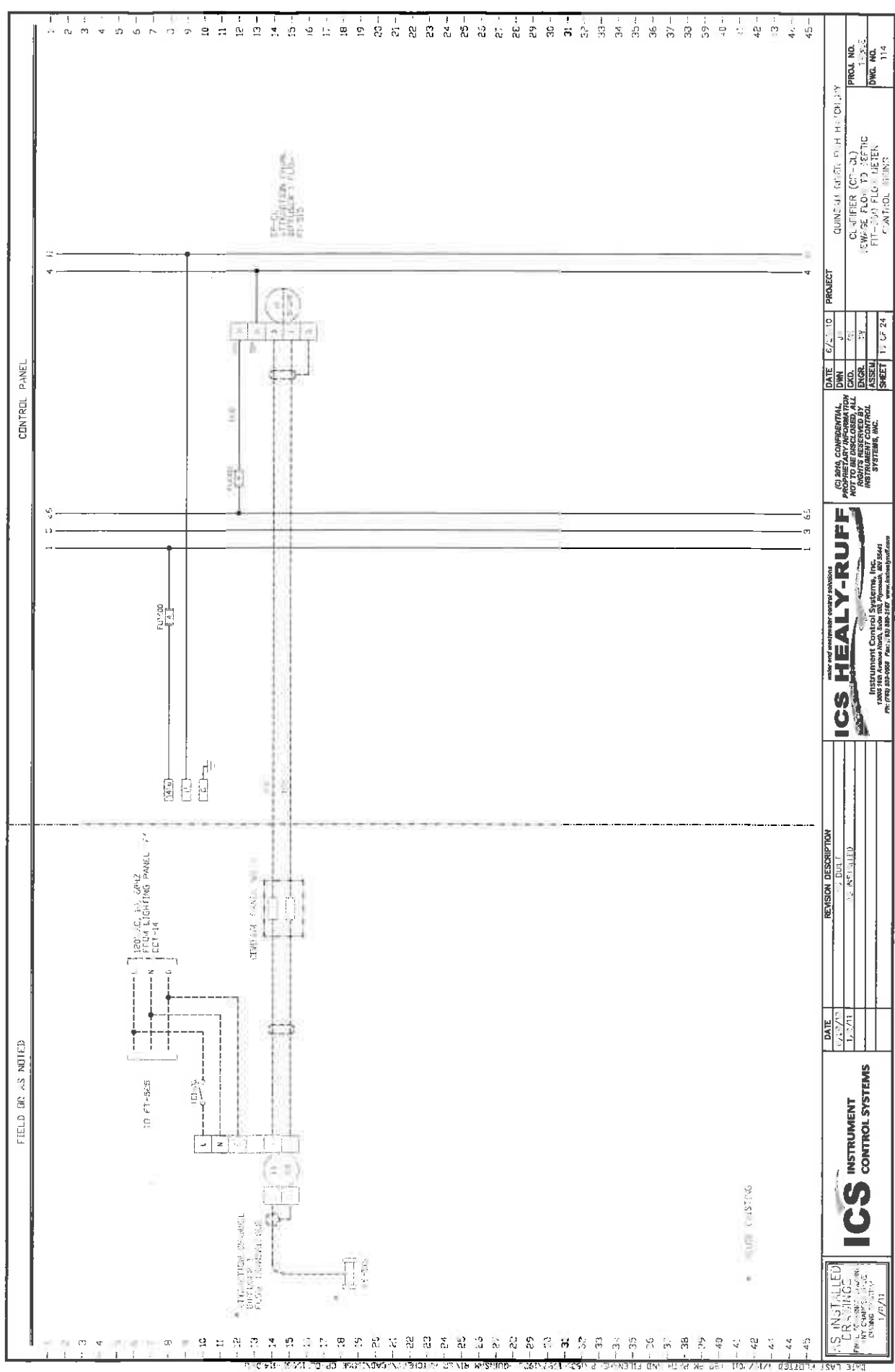
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Instrument Control Systems, Inc.
1000 11th Avenue North, Suite 100, Minneapolis, MN 55401
Ph: (612) 555-5555 Fax: (612) 555-5555 www.icshealy-ruff.com

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SYSTEMS, INC.

| DATE | BY | CHKD. | ENGR. | ASSEM. | SHEET |
|---------|-------------|-------|-------|--------|----------|
| 1/18/01 | J. M. S. J. | G. C. | G. C. | | 16 OF 24 |

| PROJECT | QUINCY WASTEWATER PLANT |
|-------------|--|
| PLANT NO. | 1330 |
| DWG. NO. | 113 |
| DESCRIPTION | PLANTER (3-1-0)
INTERSECTION CHANNEL DIFF 2
FIT-45 FLOW METER
CENTRAL MAINS |

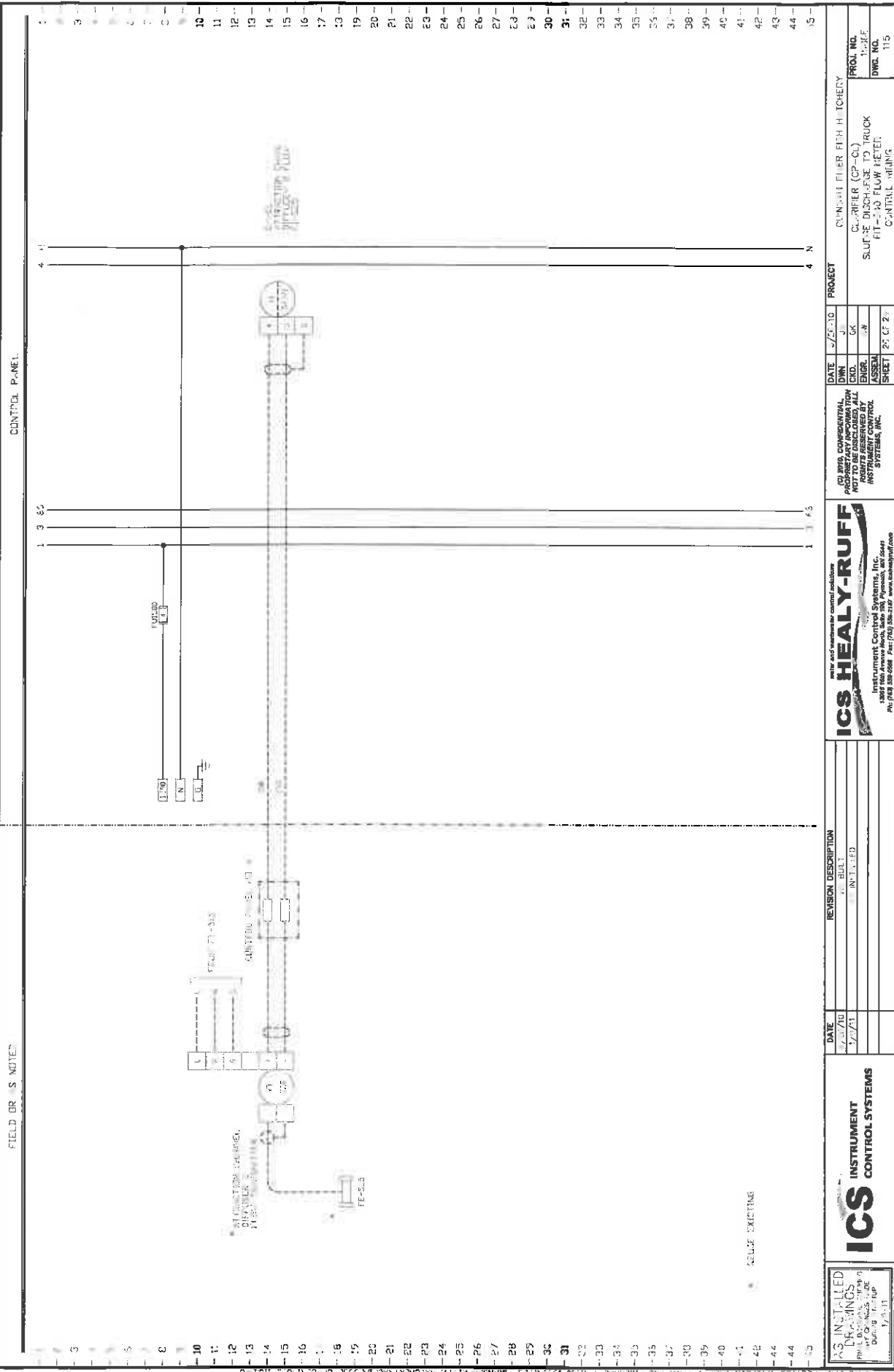


| | | | | | | | | | |
|---------|--|----------------------|--|---------|--|---------|--|------------------------|--|
| DATE | | REVISION DESCRIPTION | | DATE | | PROJECT | | QUINCY (P&ID) HATCHERY | |
| 1/23/73 | | BUILT | | 1/23/73 | | 10 | | CLIFFER (P&ID) | |
| 1/23/73 | | AS NOTED | | 1/23/73 | | 10 | | SWITCH (P&ID) | |
| | | | | | | | | FITTING (P&ID) | |
| | | | | | | | | CONTROL WIRING | |
| | | | | | | | | 114 | |

ICS HEALY-RUFF
 Instrument Control Systems, Inc.
 1000 11th Avenue North, Suite 100, Plymouth, MI 48178
 P.O. Box 200000, Plymouth, MI 48178-0000
 Tel: 734-761-1000 Fax: 734-761-1001 Email: ics@healy-ruff.com

ICS INSTRUMENT CONTROL SYSTEMS

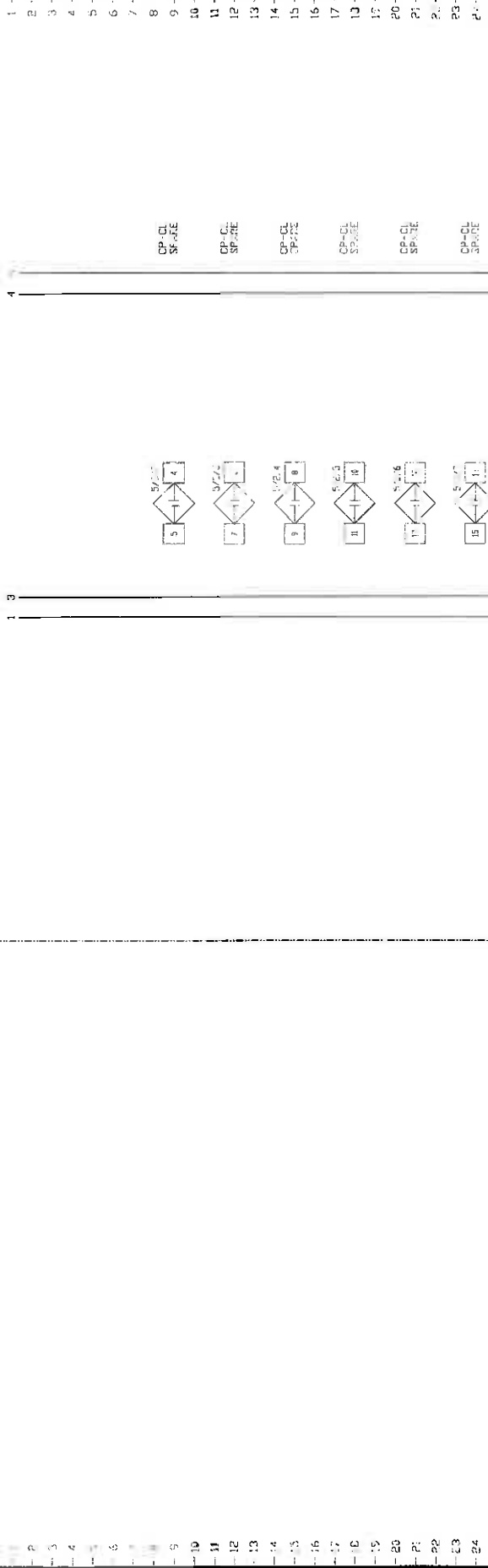
ICS INSTALLED
 CRANKING
 1/23/73



| | | | | | | | | | | | | | | | | | | | | | |
|--|----------|---------------------------------------|--|--|--|---|--|--|--|------|----|-------|----|--------|----|-------|----------|--|--|---|--|
| ICS INSTALLED DRAWINGS
<small>PHOTOGRAPHIC COPY
During Setup
1/25/11</small> | | ICS INSTRUMENT CONTROL SYSTEMS | | ICS HEALY-RUFF
<small>sales and equipment control solutions</small>
Instrument Control Systems, Inc.
<small>1005 10th Avenue North, Suite 200, Plymouth, MI 48170
 PH: (734) 226-0268 Fax: (734) 226-1157 www.icshealy-ruff.com</small> | | <small>(C) 2010 CONFIDENTIAL
 PROPRIETARY INFORMATION
 ALL RIGHTS RESERVED BY
 INSTRUMENT CONTROL SYSTEMS, INC.</small> | | <small>DATE 5/25/10 PROJECT CUNNINGHAM FIFTH HIGHWAY</small>
<table> <tr> <td>DWG.</td><td>10</td></tr> <tr> <td>ENGR.</td><td>AK</td></tr> <tr> <td>ASSEM.</td><td>AK</td></tr> <tr> <td>SHEET</td><td>25 OF 27</td></tr> </table> | | DWG. | 10 | ENGR. | AK | ASSEM. | AK | SHEET | 25 OF 27 | <small>PROJ. NO. 10-08
 DWG. NO. 115</small> | | <small>CLIENT (CP-0)
 SURFACE DISCHARGE TO TRUCK
 FIT-22 FLOW METER
 CONTROL WIRING</small> | |
| DWG. | 10 | | | | | | | | | | | | | | | | | | | | |
| ENGR. | AK | | | | | | | | | | | | | | | | | | | | |
| ASSEM. | AK | | | | | | | | | | | | | | | | | | | | |
| SHEET | 25 OF 27 | | | | | | | | | | | | | | | | | | | | |

FIELD OR AS NOTED

CONTROL PANEL



5 INSTALLED
DRAWN BY
1/8/01

ICS INSTRUMENT
CONTROL SYSTEMS

DATE 3/2/01
1/8/01

water and wastewater control solutions
ICS HEALY-RUFF
Instrument Control Systems, Inc.
1000 Glenview Road, Suite 200, Naperville, IL 60563
PH: 630-350-0000 FAX: 630-350-0001 www.icshealyruff.com

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SYSTEMS, INC.

DATE 3/2/01
1/8/01
SHEET 22 OF 24

PROJECT

QUINSIG MILE FISH HATCHERY

QUINCY (TP-CL)
CONCRETE DIGITAL OUTPUTS
CONTROL WIRING

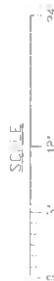
PROJ. NO.
198E
DWS. NO.
112



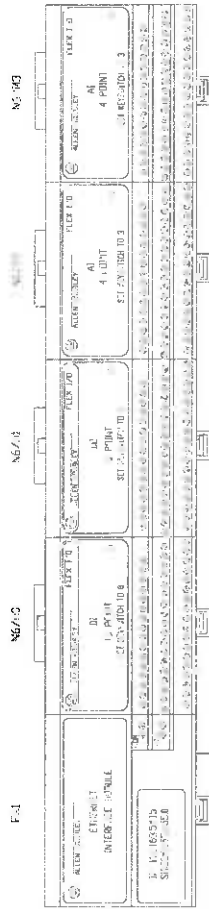
| NAMEPLATE SCHEDULE | | | | |
|--------------------|-------|------------------|-------|---------|
| TAG | LINE1 | LINE2 | LINE3 | REMARKS |
| 01 | CP-DF | DISCLOSURE FENCE | 2x10 | |

NAMEPLATES ARE BLACK WITH WHITE LETTERING

1. ENCLOSURE IS NEMA TYPE 4 IP RATED MOUNT HOFFMAN CSD 53616, WITH SWNEE PANEL HOFFMAN CP4036
2. FRESH IS NOT 61 GRAY
3. 61 SDC

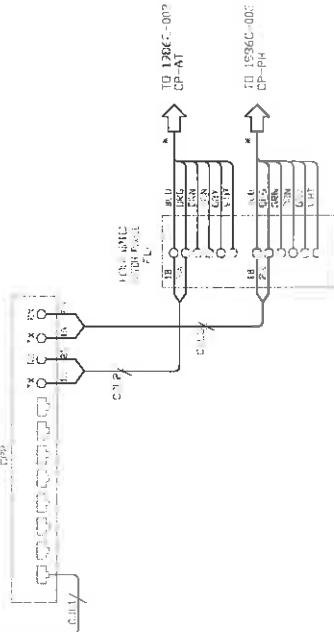
[illegible]

FLEX I/O SCHEDULE



IF 198162-34-35
 SF 235-555-275-0

LINE 198162-34-35



| QTY | TAGS | DESCRIPTION | MFG | CATALOG |
|-----|-------|---|---------------|---------|
| 1 | F-1 | FLEX I/O SCHEDULE
120V AC
120V AC
120V AC
120V AC | ALLEN BRADLEY | 120V AC |
| 1 | N6A/C | FLEX I/O SCHEDULE
120V AC
120V AC
120V AC | ALLEN BRADLEY | 120V AC |
| 1 | N6A/D | FLEX I/O SCHEDULE
120V AC
120V AC
120V AC | ALLEN BRADLEY | 120V AC |
| 1 | N6A/E | FLEX I/O SCHEDULE
120V AC
120V AC
120V AC | ALLEN BRADLEY | 120V AC |
| 1 | N6A/F | FLEX I/O SCHEDULE
120V AC
120V AC
120V AC | ALLEN BRADLEY | 120V AC |
| 1 | N6A/G | FLEX I/O SCHEDULE
120V AC
120V AC
120V AC | ALLEN BRADLEY | 120V AC |
| 1 | N6A/H | FLEX I/O SCHEDULE
120V AC
120V AC
120V AC | ALLEN BRADLEY | 120V AC |
| 1 | N6A/I | FLEX I/O SCHEDULE
120V AC
120V AC
120V AC | ALLEN BRADLEY | 120V AC |
| 1 | N6A/J | FLEX I/O SCHEDULE
120V AC
120V AC
120V AC | ALLEN BRADLEY | 120V AC |
| 1 | N6A/K | FLEX I/O SCHEDULE
120V AC
120V AC
120V AC | ALLEN BRADLEY | 120V AC |
| 1 | N6A/L | FLEX I/O SCHEDULE
120V AC
120V AC
120V AC | ALLEN BRADLEY | 120V AC |
| 1 | N6A/M | FLEX I/O SCHEDULE
120V AC
120V AC
120V AC | ALLEN BRADLEY | 120V AC |
| 1 | N6A/N | FLEX I/O SCHEDULE
120V AC
120V AC
120V AC | ALLEN BRADLEY | 120V AC |
| 1 | N6A/O | FLEX I/O SCHEDULE
120V AC
120V AC
120V AC | ALLEN BRADLEY | 120V AC |
| 1 | N6A/P | FLEX I/O SCHEDULE
120V AC
120V AC
120V AC | ALLEN BRADLEY | 120V AC |
| 1 | N6A/Q | FLEX I/O SCHEDULE
120V AC
120V AC
120V AC | ALLEN BRADLEY | 120V AC |
| 1 | N6A/R | FLEX I/O SCHEDULE
120V AC
120V AC
120V AC | ALLEN BRADLEY | 120V AC |
| 1 | N6A/S | FLEX I/O SCHEDULE
120V AC
120V AC
120V AC | ALLEN BRADLEY | 120V AC |
| 1 | N6A/T | FLEX I/O SCHEDULE
120V AC
120V AC
120V AC | ALLEN BRADLEY | 120V AC |
| 1 | N6A/U | FLEX I/O SCHEDULE
120V AC
120V AC
120V AC | ALLEN BRADLEY | 120V AC |
| 1 | N6A/V | FLEX I/O SCHEDULE
120V AC
120V AC
120V AC | ALLEN BRADLEY | 120V AC |
| 1 | N6A/W | FLEX I/O SCHEDULE
120V AC
120V AC
120V AC | ALLEN BRADLEY | 120V AC |
| 1 | N6A/X | FLEX I/O SCHEDULE
120V AC
120V AC
120V AC | ALLEN BRADLEY | 120V AC |
| 1 | N6A/Y | FLEX I/O SCHEDULE
120V AC
120V AC
120V AC | ALLEN BRADLEY | 120V AC |
| 1 | N6A/Z | FLEX I/O SCHEDULE
120V AC
120V AC
120V AC | ALLEN BRADLEY | 120V AC |

ICS
INSTRUMENT CONTROL SYSTEMS

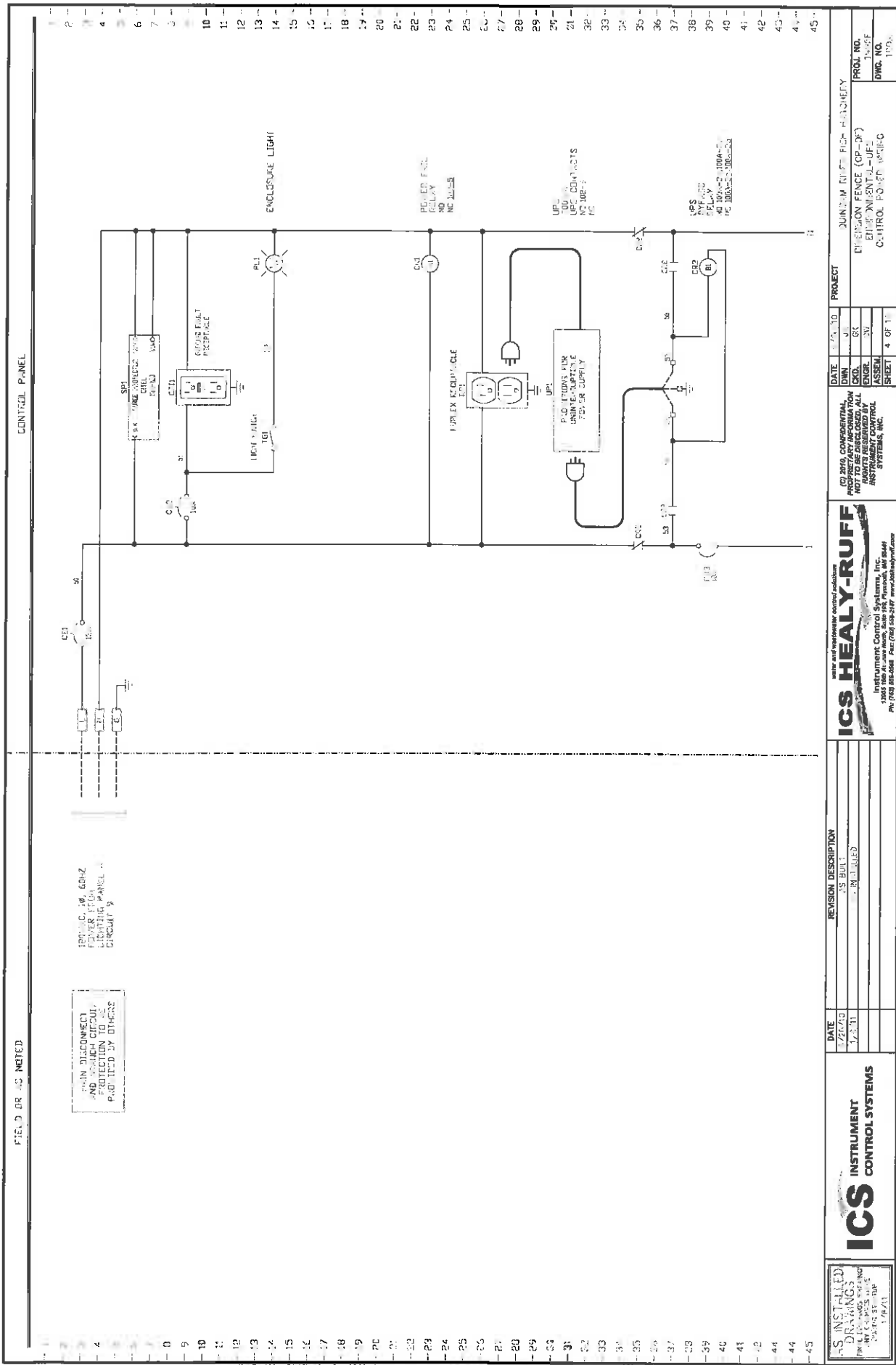
DATE: 3/24/70
 REVISION: 1.0
 DESCRIPTION: 1.0

DATE: 3/24/70
 PROJECT: 1.0
 SHEET: 3 OF 15

TO 3010, CONFIDENTIAL
 PROPRIETARY INFORMATION
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 SYSTEMS, INC.

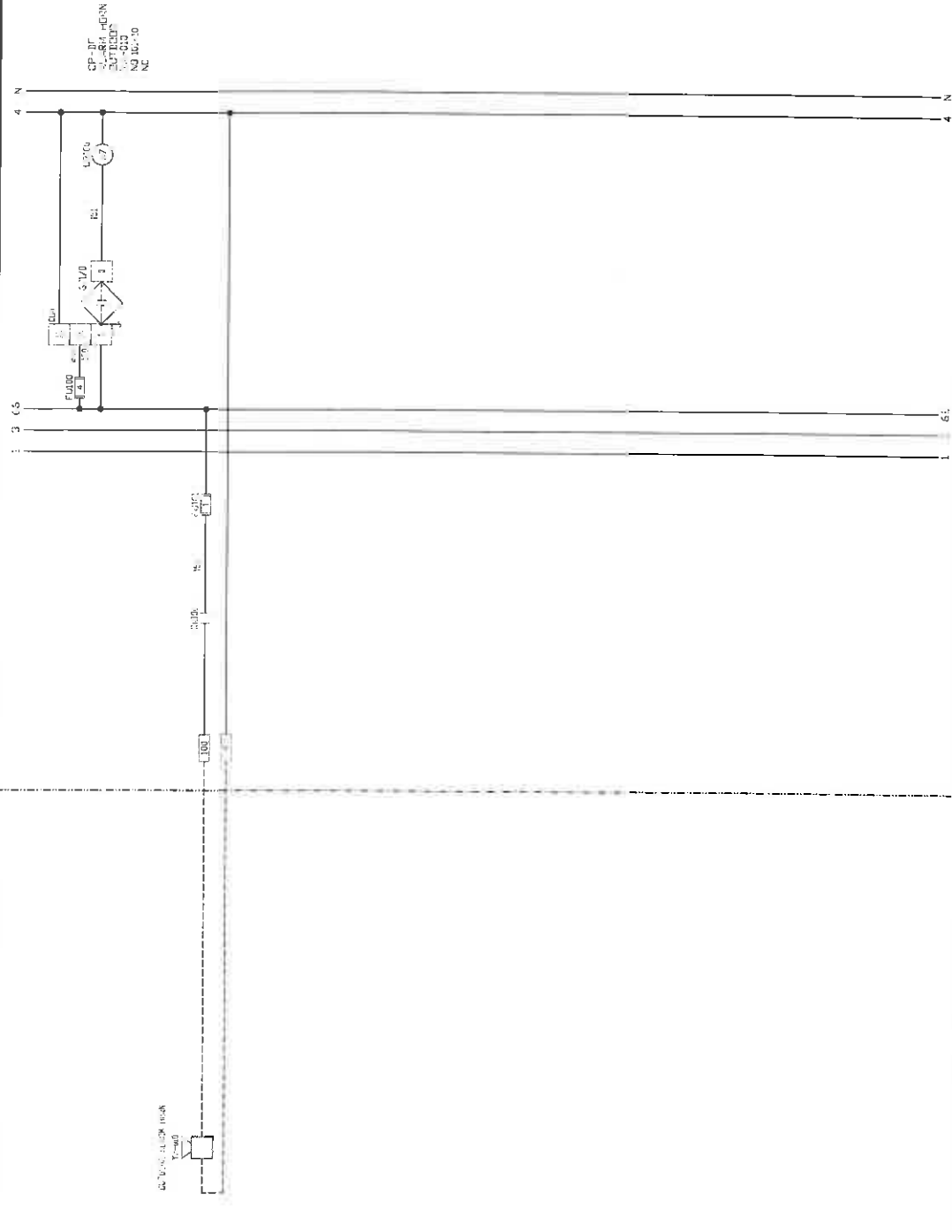
DATE: 3/24/70
 PROJECT: 1.0
 SHEET: 3 OF 15

DATE: 3/24/70
 PROJECT: 1.0
 SHEET: 3 OF 15



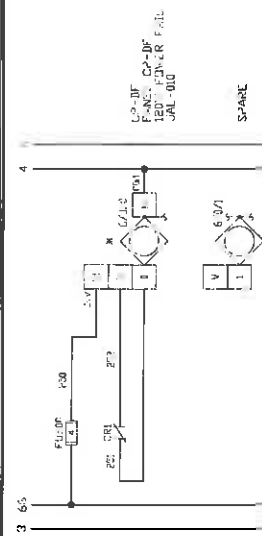
FIELD OR AS NOTED

CONTROL PANEL



| | | | | | | | | |
|---|---------------------------|------------------------------------|---|---|-----------------|---------------------------|---------------------------------------|-------------------|
| <div>ICS INSTRUMENT CONTROL SYSTEMS</div> <div>AC INSTALLER
OUR WINDS
PROJECT: FISH HATCHERY
PLUMBING 11-2-10</div> | DATE
6/28/10
1/2/11 | REVISION DESCRIPTION
1. REVISED | <div>ICS HEALY-RUFF</div> <div>Instrument Control Systems, Inc
12000 860 Avenue North, Suite 100
Plymouth, MN 55441
PH: (763) 837-0000 Fax: (763) 837-2187 www.ics-control.com</div> | | | DATE
6/28/10
1/2/11 | PROJECT
JUNIOR ELDER FISH HATCHERY | PROJ. NO.
1000 |
| | | | | CD 3010, COMPENSATIONAL
NOT TO BE DISCLOSED, ALL
RIGHTS RESERVED
INSTRUMENT CONTROL
SYSTEMS, INC. | DWG. NO.
100 | | | |
| | | | | | DINN | ENGR. | ASSEM. | |
| | | | | | CD | ENGR. | ASSEM. | |
| | | | | | CD | ENGR. | ASSEM. | |

CONT'D. PANEL



AC INSTALLED
DRAWINGS
BY DATE 12/18/87
PLUMBING
1/8/87

ICS
INSTRUMENT
CONTROL SYSTEMS

| DATE | REVISION DESCRIPTION |
|---------|----------------------|
| 6/20/79 | PC FULL |
| 1/20/81 | PC FULL |
| | |
| | |

water and wastewater control solutions

ICS HEALY-RUFF

Instrument Control Systems, Inc.
13065 78th Avenue North, Suite 100, Plymouth, MN 55441

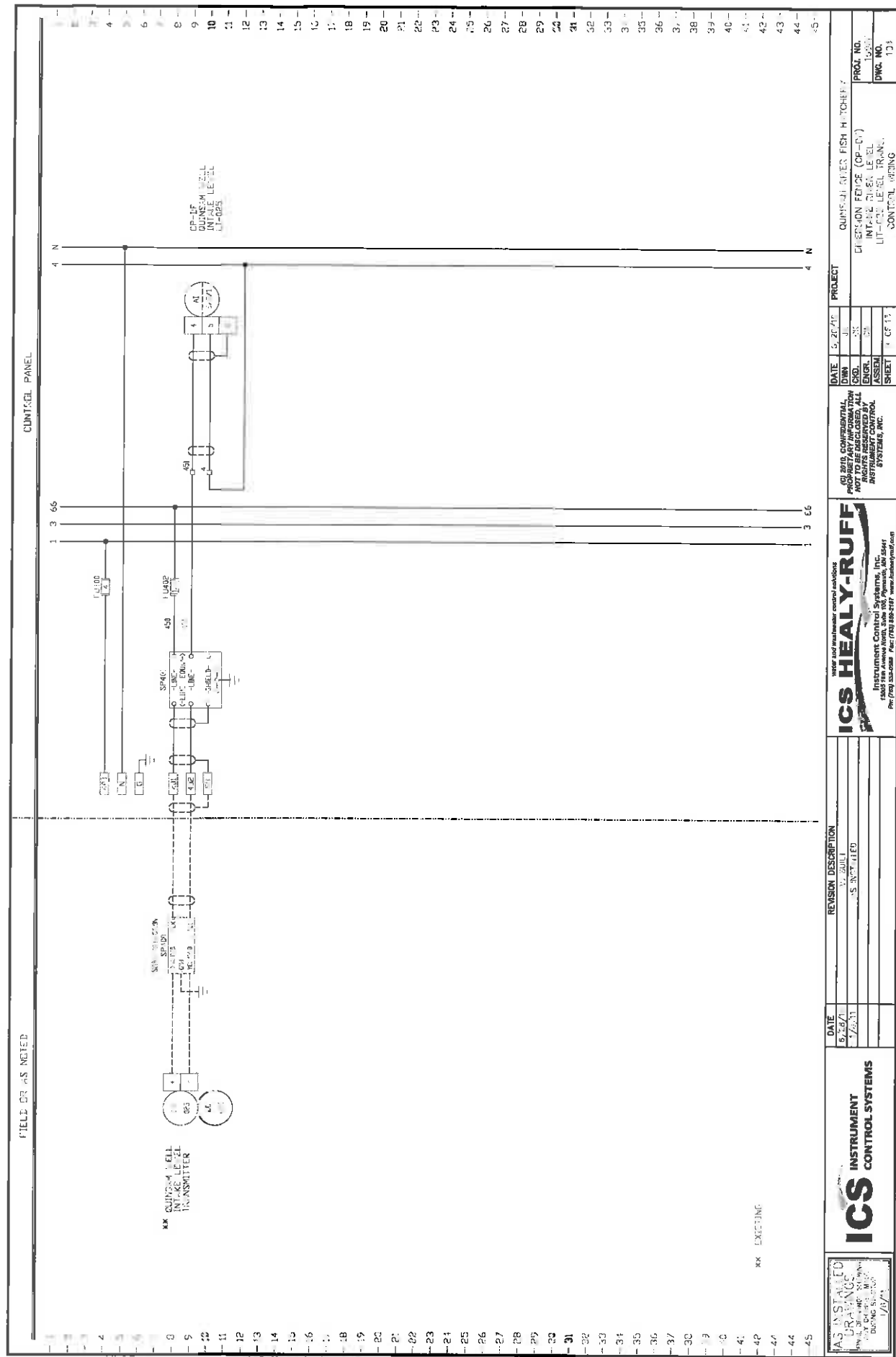
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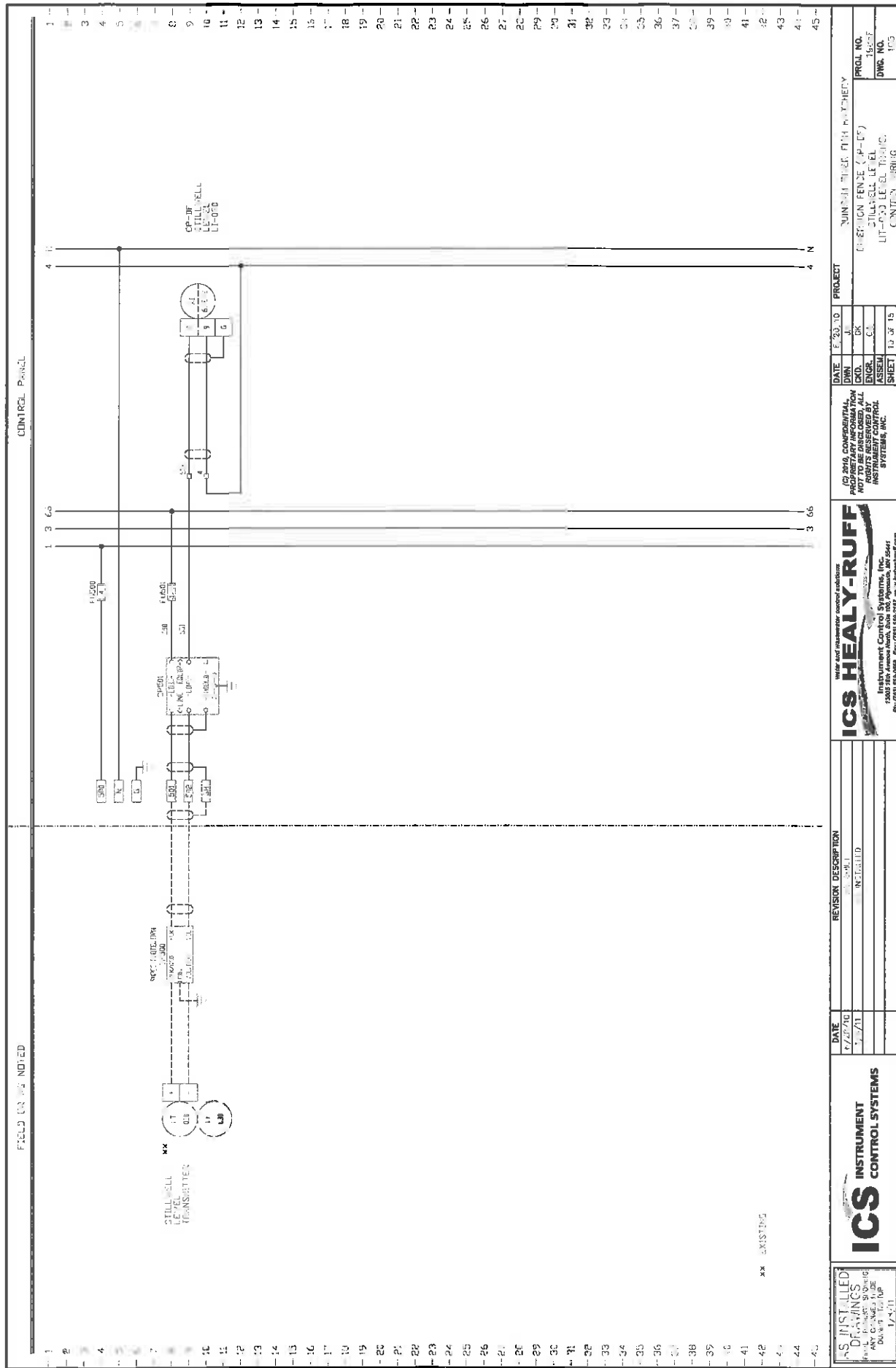
| | |
|-------|---------|
| DATE | 7/27/10 |
| DWN | |
| CHKD. | LK |
| ENGR. | CY |
| ASSEM | |
| SHEET | 2 OF 10 |

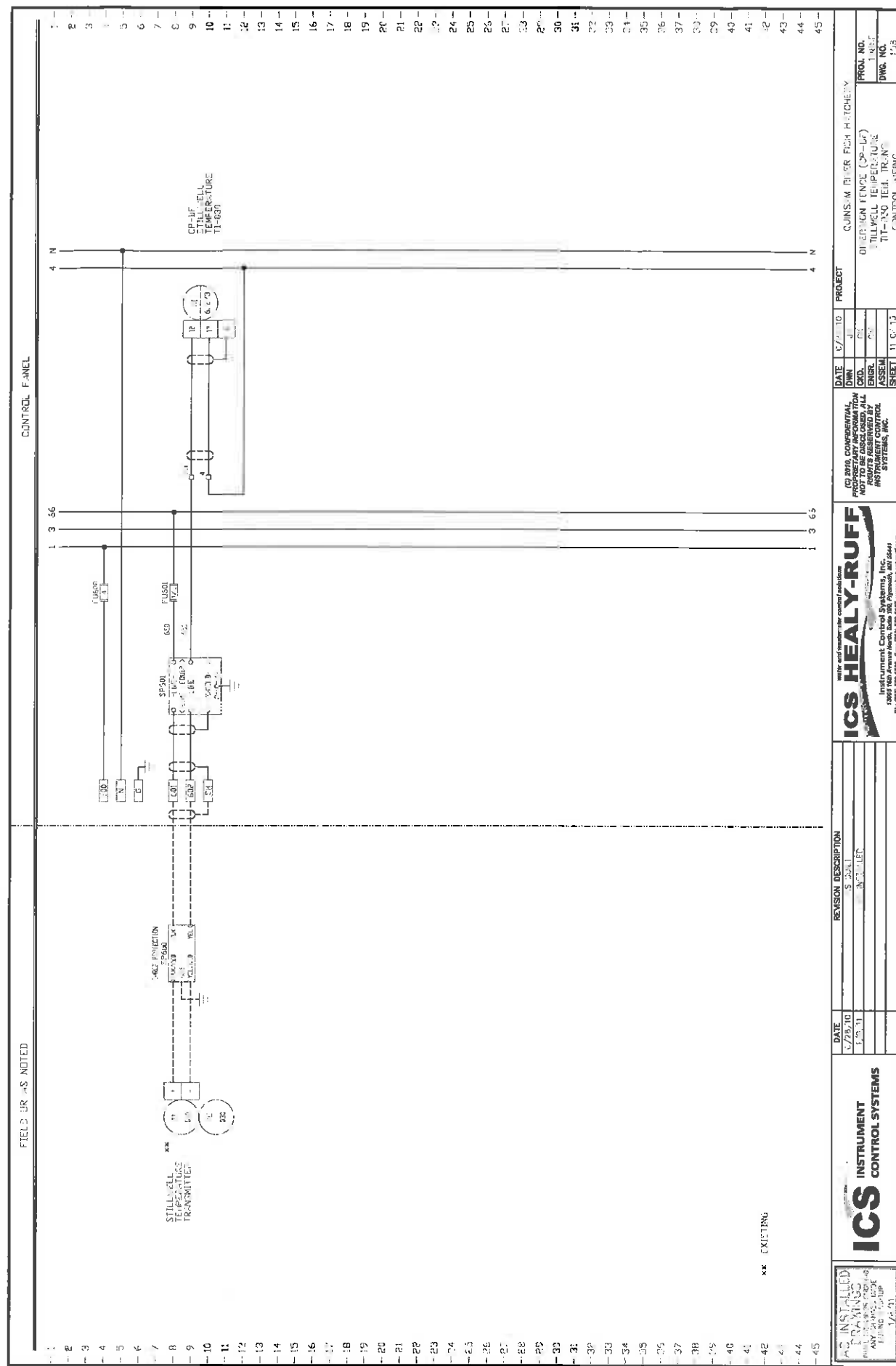
PROJECT

QUICK RIVER FISH
DEFLECTION FENCE (CP-10)
FANEL ALUMINUM

| | |
|-----------|-------|
| PROJ. NO. | 1005F |
| DWG. NO. | 302 |





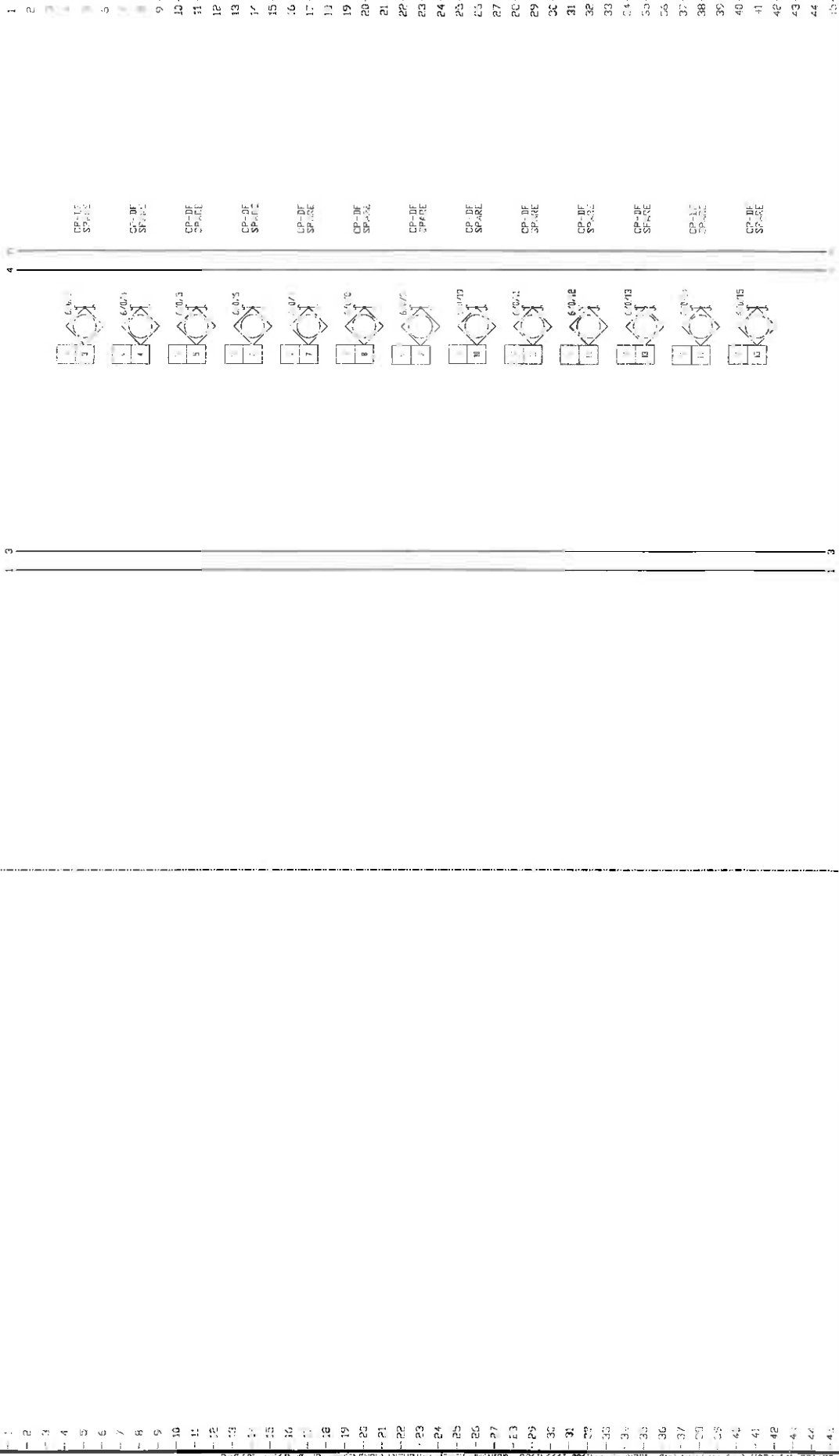


CONTROL PANEL

[illegible][illegible]

FIELD OR AS NOTED

CONTROL PANEL

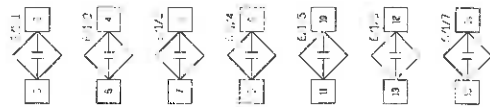


| | | | | | | | | | |
|---|-----------------------------------|---|-----------------------------------|------------------------|--------------------------|---------------------------|--------------------------|---|--|
| ICS
INSTRUMENT
CONTROL SYSTEMS | DATE
6/23/12
1/22/11 | REVISION DESCRIPTION
1. REVISED
2. REVISED | DATE
6/23/12
1/22/11 | OWN
JL
CK | ENGR.
JL
CK | ASSEM.
JL
CK | SHEET
14 OF 15 | PROJECT
QUINCY RIVER FISH HATCHERY
EXHIBITION FENCE (CP-12)
3-Phase Digital Input
CONTROL - RING | PROJ. NO.
1-1581
DWG. NO.
100 |
| | | | | | | | | | |

ICS HEALY-RUFF
water and wastewater control solutions
Instrument Control Systems, Inc.
1300 San Antonio Road, Suite 100, Pleasanton, CA 94566
PH: 925.255.0001 FAX: 925.255.0002 www.icshealy-ruff.com

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2. ICS HAS BEEN ADVISED THAT THE FOLLOWING INFORMATION IS NOT TO BE USED FOR ANY OTHER PROJECTS WITHOUT THE WRITTEN PERMISSION OF ICS.
3. ICS HAS BEEN ADVISED THAT THE FOLLOWING INFORMATION IS NOT TO BE USED FOR ANY OTHER PROJECTS WITHOUT THE WRITTEN PERMISSION OF ICS.

CONTROL PANEL

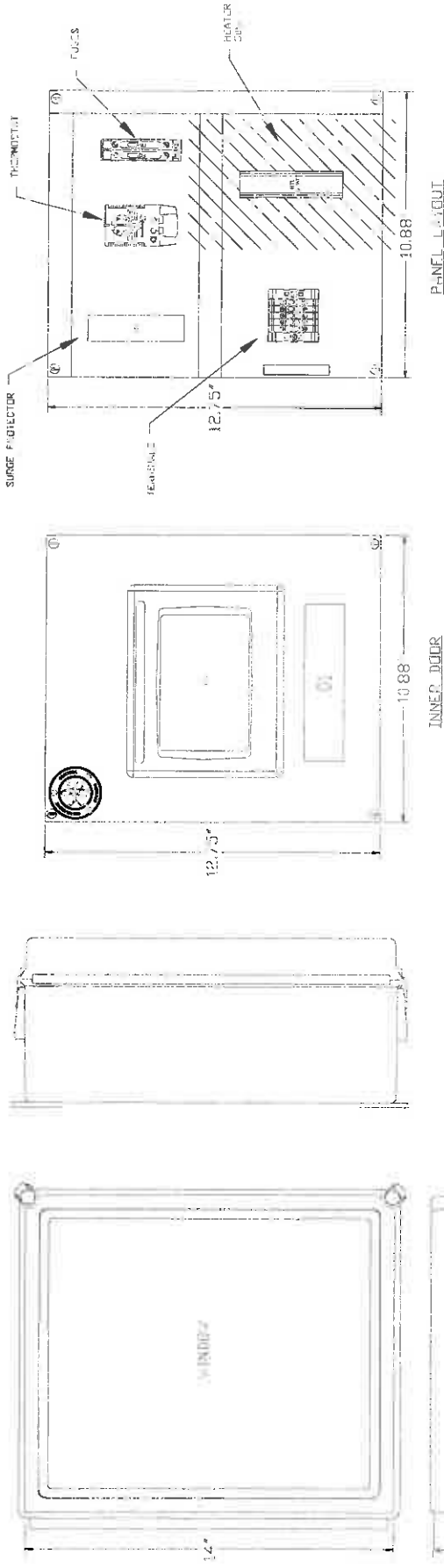


| | | | | | | | | | | | | | | | |
|---|--|-----------------|--|--------------------------------|--|--|--|---|--|--|--|---|--|--------------------------------|--|
|  ICS
INSTRUMENT
CONTROL SYSTEMS | | DATE
8/20/10 | | REMISION DESCRIPTION
5 TUIT | | 19 Year and residential sound solutions
ICS HEALY-RUFF
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INSTRUMENT CONTROL
SYSTEMS, INC. | | DATE 12/2/10
DOW JLS
CND JLS
ENGR C4
ASSEM
SHEET 12 OF 13 | | PROJECT
QUINCY RIVER FLOOD PROTECTION
PHOENIX TUNNEL (P-07)
GREAT DIGITAL TUNNELS
CENTRAL URBAN | | PROJ. NO. 1223
DWG. NO. 110 | |
|---|--|-----------------|--|--------------------------------|--|--|--|---|--|--|--|---|--|--------------------------------|--|

DRAWING INDEX

| FILENAME | TITLE_1 | TITLE_2 | TITLE_3 | TITLE_4 | FILEDATE |
|-----------|------------------------------|------------------|-------------------------|---------|-----------|
| 1986G-NEX | ANALYTIC TANK PANEL CONT-AND | DRAWING INDEX | | | 7/26/2010 |
| 1986G-COI | ANALYTIC TANK PANEL CONT-AND | ENCLOSURE DETAIL | | | 7/26/2010 |
| 1986G-CP2 | ANALYTIC TANK PANEL CONT-AND | PLC MODULE | | | 7/26/2010 |
| 1986G-H80 | ANALYTIC TANK PANEL CONT-AND | CIRCUIT BREAKER | CONTROLLER POWER WIRING | | 7/26/2010 |

| | | | | | | |
|--|-----------------|----------------------------------|---|--|---------------------------|---------------------------|
| 
ICS INSTRUMENT CONTROL SYSTEMS | DATE
6/26/13 | REVISION DESCRIPTION
REV. 001 | 
Water And wastewater control solutions
ICS HEALY-RUFF
Instrument Control Systems, Inc.
1000 100 Avenue North, Suite 100, Minneapolis, MN 55412
PH: 612 835-0000 FAX: 612 835-0001 www.icshealy-ruff.com | (C) 2010, CONFIDENTIAL
PROPRIETARY INFORMATION
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INSTRUMENT CONTROL
SYSTEMS, INC. | DATE
DWG. NO.
1986G | DATE
DWG. NO.
1986G |
| | 1/2/11 | 1/2/11 | | | DATE
DWG. NO.
1986G | DATE
DWG. NO.
1986G |
| PROJECT | | PROJECT | | PROJECT | | |
| DRAWING INDEX | | DRAWING INDEX | | DRAWING INDEX | | |
| SHEET 1 OF 4 | | SHEET 1 OF 4 | | SHEET 1 OF 4 | | |



| NAMEPLATE SCHEDULE | | | | |
|--------------------|-------|-------|-------|---------------------------------------|
| TAG | LINE1 | LINE2 | LINE3 | REMARKS |
| 01 | 01 | 01 | 01 | NAMEPLATE ASSEMBLY WITH WHITE LETTERS |

NOTES:

1. ENCLOSURE IS A NEW TYPE 42 WALL-MOUNT HOTTEN
2. NAMEPLATE KIT, WITH INNER PANEL HOFFMAN #1412, AND
3. FINISH IS FINISHED COAT.
4. FOLE MOUNT KIT, HOFFMAN #1412
5. SEE 500A



AS INSTALLED DRAWINGS
ANY CHANGES TO BE MADE TO THE DRAWING MUST BE APPROVED BY THE DESIGNER
 DATE: 1/6/01

ICS INSTRUMENT CONTROL SYSTEMS

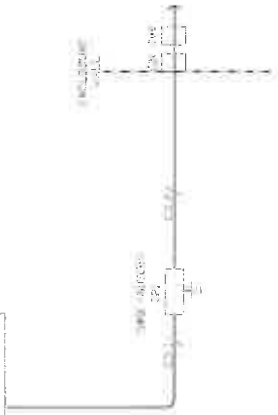
DATE: 1/6/01
 REVISION DESCRIPTION: 1. 1/6/01
 2. 1/6/01
 3. 1/6/01

DATE: 1/6/01
 PROJECT: QUINCY RIVER FISH HATCHERY
 INSTRUMENT CONTROL SYSTEMS, INC.
 1000 100 Avenue Road, Suite 100, Plymouth, MN 55441
 PH: 763 555-1000 FAX: 763 555-1001 WWW.ICSINSTRUMENTS.COM

DATE: 1/6/01
 PROJECT: QUINCY RIVER FISH HATCHERY
 INSTRUMENT CONTROL SYSTEMS, INC.
 1000 100 Avenue Road, Suite 100, Plymouth, MN 55441
 PH: 763 555-1000 FAX: 763 555-1001 WWW.ICSINSTRUMENTS.COM

DATE: 1/6/01
 PROJECT: QUINCY RIVER FISH HATCHERY
 INSTRUMENT CONTROL SYSTEMS, INC.
 1000 100 Avenue Road, Suite 100, Plymouth, MN 55441
 PH: 763 555-1000 FAX: 763 555-1001 WWW.ICSINSTRUMENTS.COM

PLC PANEL 7, PLUS
C-COLOR TOUCHSCREEN
11/18/2011 1:28
BY: 0000000000



TO CONTROL PANEL, CP 1A
SET JWG, 19055-006

| QTY | TAGS | DESCRIPTION | WEG | CATALOG |
|-----|------|---|-----------------|---------------|
| 1 | D11 | ETHERNET INTERFACE
4-232 AND ETHERNET
PORTS | ALLEN BRADLEY | P-1P-1E-20 |
| 1 | CP1 | ETHERNET INTERFACE
4-232 AND ETHERNET
PORTS | PHOENIX CONTACT | 20 59 00 4 |
| 1 | CP1 | ETHERNET INTERFACE
4-232 AND ETHERNET
PORTS | GENERIC | CATRE |
| 1 | CP1 | ETHERNET INTERFACE
4-232 AND ETHERNET
PORTS | SIEMENS | ED-RJF-DLKH-1 |
| 1 | CP1 | ETHERNET INTERFACE
4-232 AND ETHERNET
PORTS | SIEMENS | ED-RJF-CP-1 |
| 1 | CP1 | ETHERNET INTERFACE
4-232 AND ETHERNET
PORTS | SIEMENS | ED-RJF-PLUG-1 |

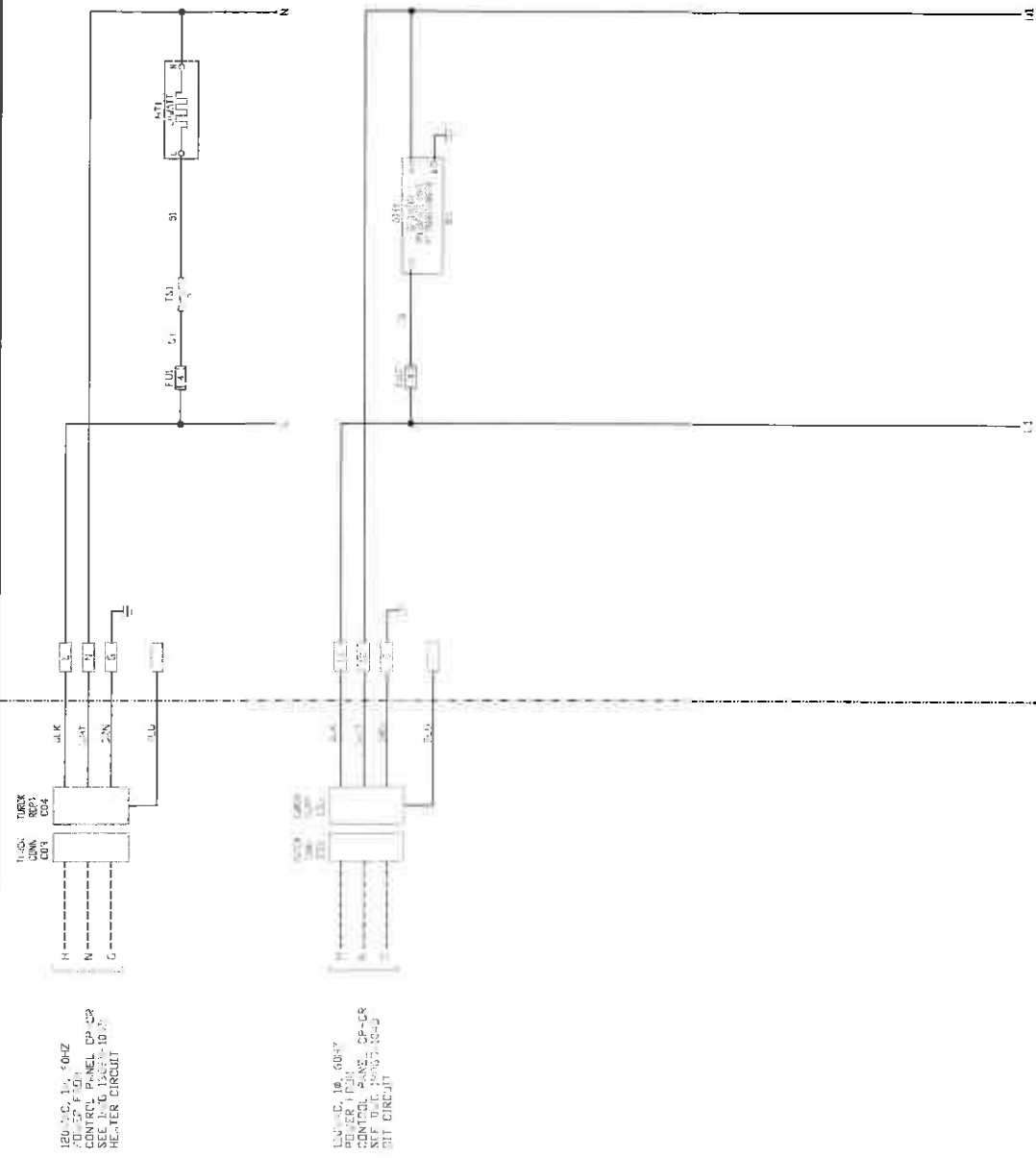
| | | | | | | | |
|---|--|---|--|--------------------|-----------------|---------------------------------------|-------------------|
| ICS
INSTRUMENT
CONTROL SYSTEMS | DATE
11/18/2011 | REVISION DESCRIPTION
1. 11/18/2011
2. 11/18/2011 | PROJECT
SINKER RIVER FISH TOXICITY | DATE
11/18/2011 | SHEET
3 OF 4 | PROJECT
SINKER RIVER FISH TOXICITY | PROJ. NO.
1542 |
| | AS INSTALLED
DRAWINGS
11/18/2011 | ICS HEALY-RUFF
Instrument Control Systems, Inc.
11000 American Fork, Utah 84003
801-225-0000 | (C) 2010, CONFIDENTIAL
PROPRIETARY INFORMATION
RIGHTS RESERVED BY ICS
INSTRUMENT CONTROL
SYSTEMS, INC. | DATE
11/18/2011 | SHEET
3 OF 4 | PROJECT
SINKER RIVER FISH TOXICITY | PROJ. NO.
1542 |

FIELD DR. AS NOTED

DIT-201

4 IN. DISCONNECT
AND DISCONNECT
CIRCUIT
FACED TO THE
RIGHT BY OTHERS

120 VAC, 1 ϕ , 60HZ
CONTROL PANEL CP-CR
SEE FIG. 150-10-10
HEATER CIRCUIT



NOT TO SCALE
DRAWING
BY J. J. J. J.
DATE: 12/1/11

ICS INSTRUMENT
CONTROL SYSTEMS

DATE: 6/23/10
REVISION DESCRIPTION
1. 5 IN. FIELD
2. 5 IN. FIELD

ICS HEALY-RUFF
Instrument Control Systems, Inc.
10000 Highway 100
P.O. Box 100
P.O. Box 100
P.O. Box 100

(C) 2010, CONFIDENTIAL
RIGHTS RESERVED BY
INSTRUMENT CONTROL
SYSTEMS, INC.

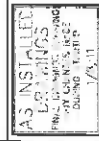
DATE: 6/23/10
DWG. NO. 1532
PROJECT: CUNEIFI (NEW) FICH HATCHERY

PROJECT: CUNEIFI (NEW) FICH HATCHERY
INSTRUMENT CONTROL SYSTEMS, INC.
DWG. NO. 1532

PROJECT: CUNEIFI (NEW) FICH HATCHERY
INSTRUMENT CONTROL SYSTEMS, INC.
DWG. NO. 1532

DRAWING INDEX

| FILENAME | TITLE_1 | TITLE_2 | TITLE_3 | TITLE_4 | FILEDATE |
|-----------|---------------------------|----------------------|---------|---------|----------|
| 1906H-NDP | | DRAWING INDEX | | | 6/7/2010 |
| 1903H-001 | MAINTENANCE SHOP (401-57) | ENCLOSURE DETAIL | | | 6/7/2010 |
| 1903H-002 | MAINTENANCE SHOP (401-58) | PLC I/O SCHEDULE | | | 6/7/2010 |
| 1906H-100 | MAINTENANCE SHOP (401-59) | CONTROL POWER WIRING | | | 6/6/2010 |



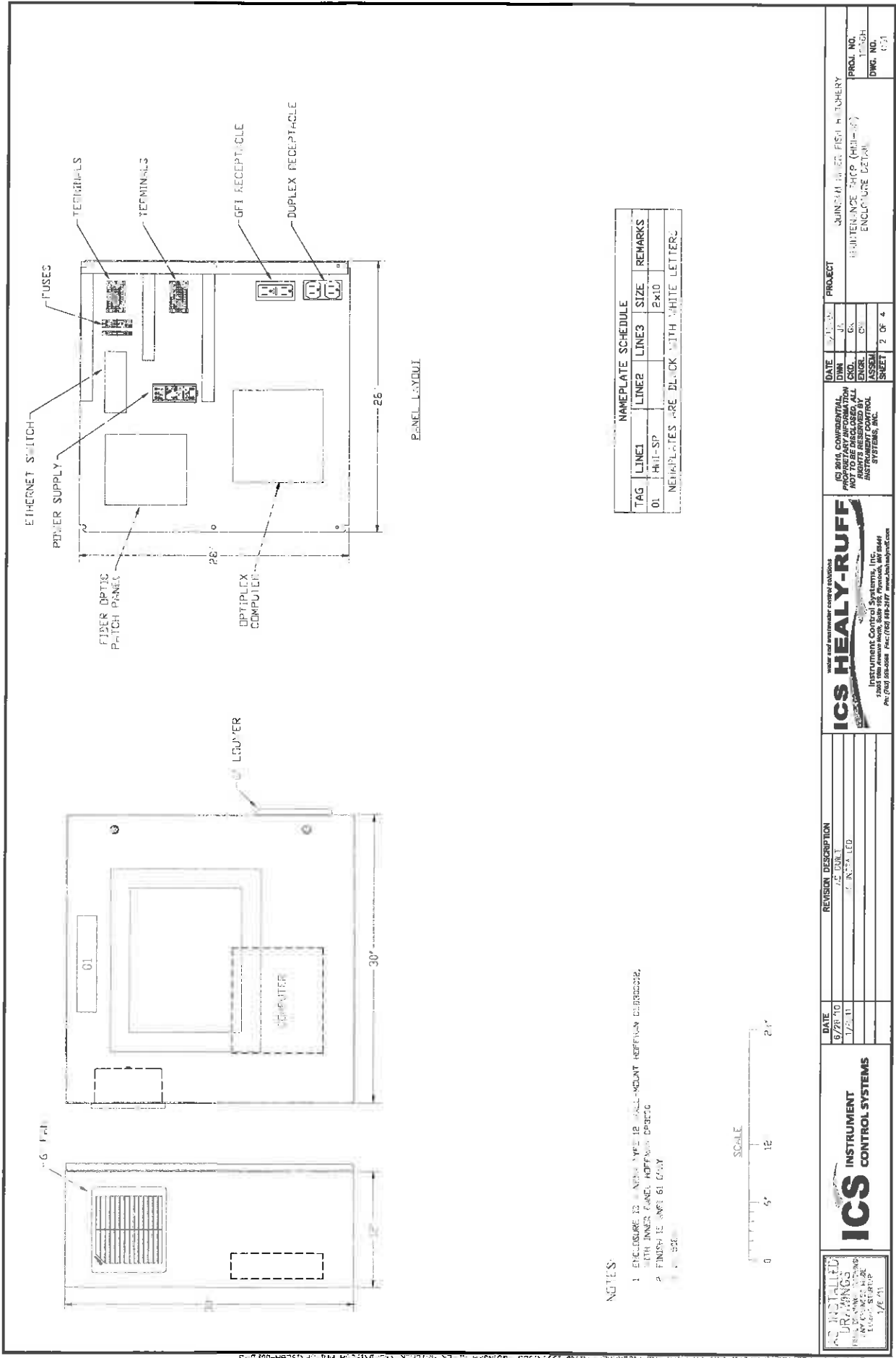
| DATE | REVISION DESCRIPTION |
|--------|----------------------|
| 1/2/11 | AS PER IT |
| 1/2/11 | AS PER IT |
| | |
| | |
| | |



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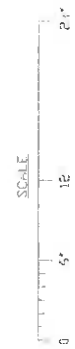
| DATE | DIN | COO | ENR | ASSEM | SHEET |
|--------|-----|-----|-----|-------|--------|
| 1/2/11 | 1 | 1 | 1 | 1 | 1 OF 4 |

| PROJECT | QUANTITY | PROJ. NO. | DWG. NO. |
|----------|----------|-----------|----------|
| QUANTITY | QUANTITY | 1906H | NDP |



NOTES:

1. ENCLOSURE IS A NEW TYPE 1B WALL-MOUNT HOFFMAN ENCLOSURE WITH INNER PANEL HOFFMAN PORTS
2. FINISH IS WP-61 GRAY

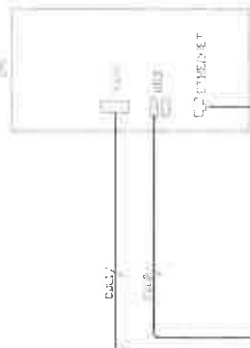


| NAMEPLATE SCHEDULE | | | | |
|---|-------|-------|-------|------|
| TAG | LINE1 | LINE2 | LINE3 | SIZE |
| 01 | HI-SP | | | 2x10 |
| NAMEPLATES ARE BLACK WITH WHITE LETTERS | | | | |

| | | | | | | | | | |
|---|--|---|--|---|--|---|--|--|--|
| ICs INSTRUMENT CONTROL SYSTEMS
10000 SHELTON BLVD
SUITE 100
FARMINGTON, CT 06030
TEL: (860) 676-1100 FAX: (860) 676-1101
WWW.ICSSYSTEMS.COM | | ICs HEALY-RUFF
Instrument Control Systems, Inc.
10000 SHELTON BLVD
SUITE 100
FARMINGTON, CT 06030
TEL: (860) 676-1100 FAX: (860) 676-1101
WWW.ICSSYSTEMS.COM | | (C) 2010, CONFIDENTIAL
ALL RIGHTS RESERVED BY
INSTRUMENT CONTROL
SYSTEMS, INC. | | DATE: 9/20/10
DIM: 1/2" DIA
COO: J.S.
ENGR: G.S.
ASSEM: C.S.
SHEET: 2 OF 4 | | PROJECT: QUINCY POWER FIRM RATCHERY
ENCLOSURE DETAIL
ENCLOSURE DETAIL
PROJ. NO. 11-001
DWG. NO. 11-001 | |
|---|--|---|--|---|--|---|--|--|--|

IF 15-16-54-27
SLIMFIT 200-555-550

CDU-100
100-100-100

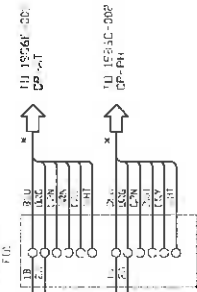


1P 1521585427
DM 200-555-550
150000 1000 1000

PIPE INDUSTRIAL
MONITOR
HD-1111-5111

TO CP-SP
SEE FIG 15086-00

15086-00
15086-00



| QTY | TAGS | DESCRIPTION | MFG | CATALOG |
|-----|------|---|-------------------------|------------------|
| 1 | CP1 | INSTRUMENT CONTROL SYSTEM
INTEL CORE 2 DUO E7600 CPU
100000 1000 1000 | DELL | OPTIPLEX 160 DUO |
| 1 | CP2 | ETHERNET FIBER MODULE
10/100/1000 BASE FX SC
60 RJ45 PORTS | NETSON | 100000 1000 1000 |
| 1 | DIT1 | LCD TOUCHSCREEN MONITOR
15" 1280 X 1024
TOUCHSCREEN / USB / VGA / DVI | HOPE INDUSTRIAL SYSTEMS | HD-1111-5111 |
| 1 | FIB | FIBER OPTIC PATCH PANEL BLOCK
12 PORTS | CIEMO COMPANY | 100000 1000 1000 |
| 1 | FIB | SC PATCH CORD CONNECTOR MODULE
3 DUPLEX SC ADAPTER 16 FIBER | CIEMO COMPANY | 100000 1000 1000 |
| 1 | CD1 | SC PATCH CORD | GENERIC | 100000 1000 1000 |
| 1 | CD2 | ETHERNET CABLE
CAT 5E 100M | GENERIC | 100000 1000 1000 |
| 1 | CD3 | ETHERNET CABLE
CAT 5E 100M | GENERIC | 100000 1000 1000 |
| 1 | CD4 | FIBER OPTIC PATCH CABLE
2 METERS 12 PORT 16 FIBERS | HUBBELL | 100000 1000 1000 |
| 1 | CD5 | SC PATCH CORD | GENERIC | 100000 1000 1000 |



DATE
1/25/10
1/25/10

REVISION DESCRIPTION

15086-00
15086-00

ICS HEALY-RUFF
Instrument Control Systems, Inc.
15086-00
15086-00

DATE
1/25/10
1/25/10

PROJECT

QUINCY PIER FILM HATCHERY
MAINTENANCE SHOP (PH-10)
PLC / IO SUPPLEMENT

PROJ. NO.
100000
DWC. NO.
002

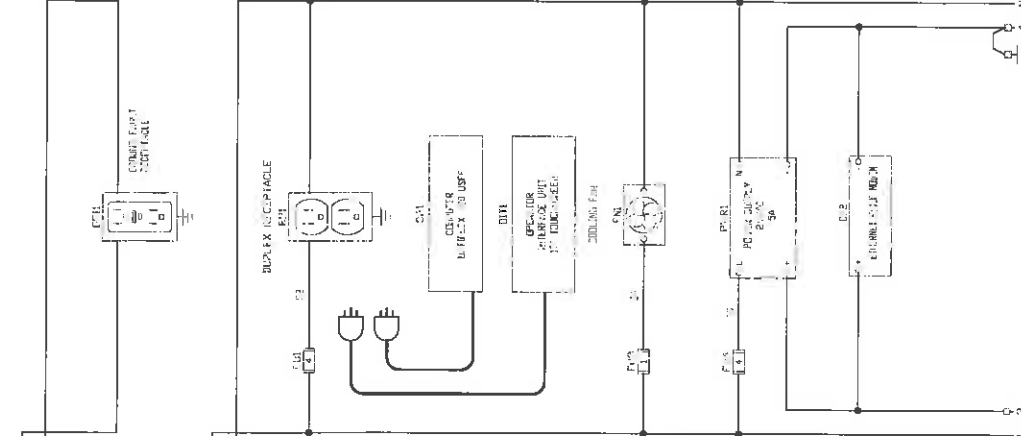
FIELD OR AS NOTED

CONTROL PANEL

MAIN DISCONNECT
AND GROUNDING
PROTECTION TIE
PANEL BY OTHERS

150V, 15, 60Hz
FUSE, 100A
1955K-1000

150V, 15, 60Hz
FUSE, 100A
1955K-1000



NOT INSTALLED
DISCREPANCY
BY OTHERS
1/25/71

ICS INSTRUMENT
CONTROL SYSTEMS

DATE 1/25/71
REVISION DESCRIPTION
1/25/71 AS IN FIELD

ICS HEALY-RUFF
Instrument Control Systems, Inc.
P.O. Box 1000, Fort Worth, Texas 76101
Phone: (817) 335-1000

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ANY OTHER PURPOSE
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SYSTEMS, INC.

DATE 1/25/71
DWG. NO. 1000

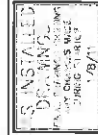
PROJECT
M. HEALY-RUFF (HRS-71)
CONTROL PANEL WIRING

PROJ. NO. 1000

DWG. NO. 1000

DRAWING INDEX

| FILENAME | TITLE 3 | TITLE 2 | TITLE 4 | FILE DATE |
|-----------|----------------------------|----------------------|---------|-----------|
| 19061-NDX | | ENCLOSURE DETAIL | | 6/7/2010 |
| 19061-001 | REFERENCE OFFICE P. 001-2) | ENCLOSURE DETAIL | | 6/7/2010 |
| 19061-002 | REFERENCE OFFICE P. 002-2) | PLC I.D. SCHEDULE | | 6/7/2010 |
| 19061-003 | REFERENCE OFFICE P. 003-2) | CENTRAL POWER WIRING | | 6/6/2010 |



ICS
INSTRUMENT
CONTROL SYSTEMS

| DATE | REVISION DESCRIPTION |
|--------|----------------------|
| 7/8/11 | 1. BUILT |
| | 2. INFILL |

ICS HEALY-RUFF
INSTRUMENT CONTROL SYSTEMS, INC.
10000 Healy-Ruff Road
P.O. Box 10000, Fort Worth, TX 76101-1000
PH: (817) 499-0000 FAX: (817) 499-0001 www.icshealy-ruff.com

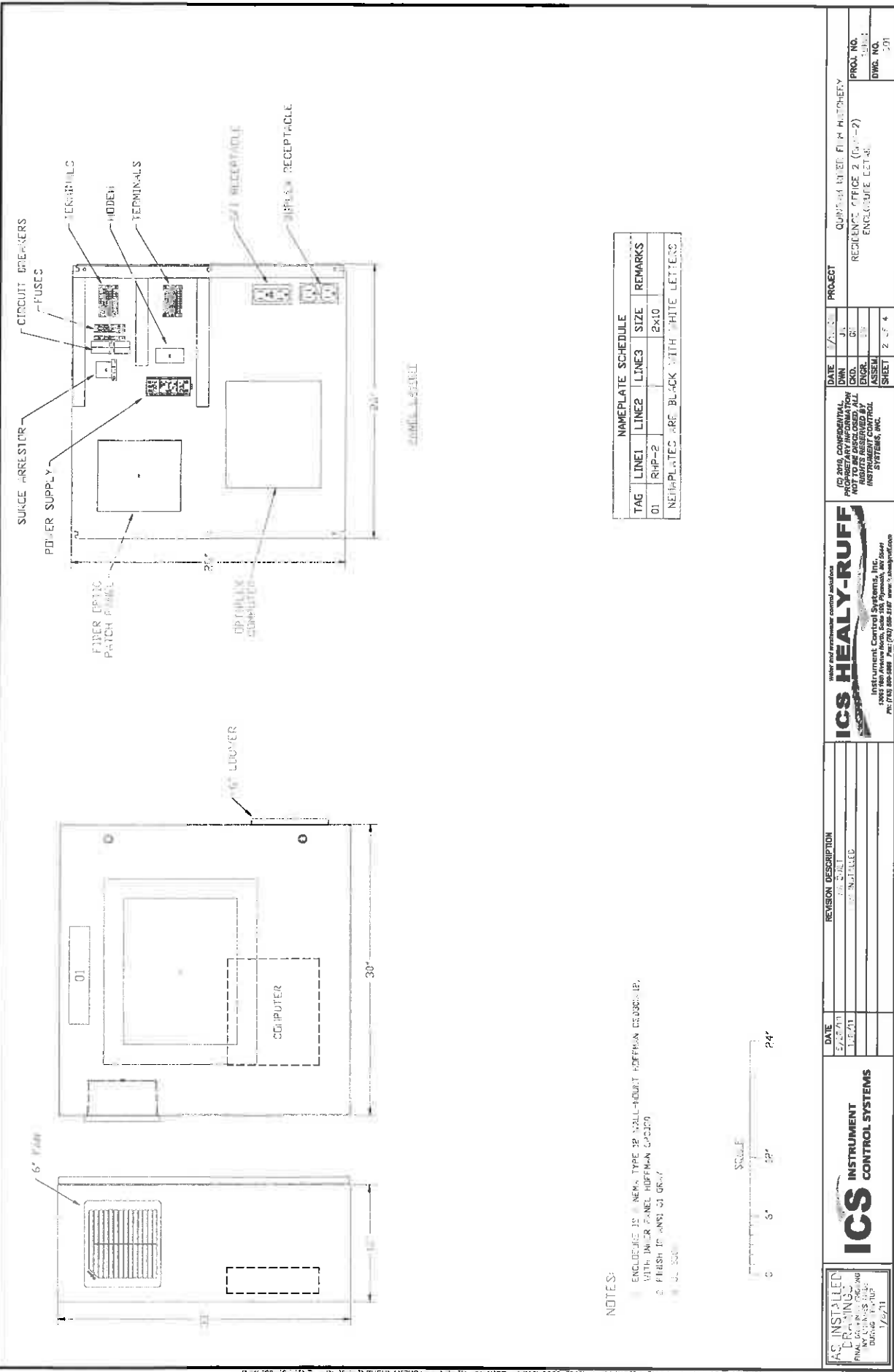
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INSTRUMENT CONTROL
SYSTEMS, INC.

| DATE | DATE | DATE | DATE |
|-------|------|-------|-------|
| DN | J | G | D |
| ENGR | ENGR | ASSEM | ASSEM |
| SHEET | 1 | OF | 4 |

PROJECT

QUINCY RICH HIGH HITCHERY

DRAWING INDEX
PROJ. NO. 19061
DWG. NO. NEX



NOTES:

ENCLOSURE IS NEMA TYPE 3B WALL-HOUNT HOFFMAN ENCLOSURE WITH INNER PANEL HOFFMAN DESIGN

2 FRESH AIR AND 61 GRAY

Q. 500



NAMEPLATE SCHEDULE

| TAG | LINE1 | LINE2 | LINE3 | SIZE | REMARKS |
|-----|-------|-------|-------|------|---------|
| 01 | RHP-2 | | | 2X10 | |

NAMEPLATES ARE BLACK WITH WHITE LETTERS

ICS INSTRUMENT CONTROL SYSTEMS

1/2/71

DATE: 1/2/71

REVISION DESCRIPTION: 1.0.0.0

ICS HEALY-RUFF

Instrument Control Systems, Inc.

1000 West Avenue North, Suite 100, Minneapolis, MN 55412

PH: 612-338-5555 FAX: 612-338-5556

PROJECT

QUINCY MEDICAL HOSPITAL

REVISION: 2 (P. 1-2)

ENCLOSURE LET-48

DATE: 1/2/71

DATE: 1/2/71

DATE: 1/2/71

DATE: 1/2/71

DATE: 1/2/71

DATE: 1/2/71

DATE: 1/2/71

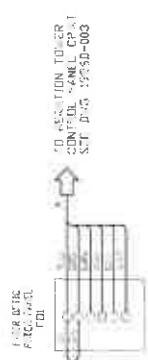
DATE: 1/2/71

DATE: 1/2/71

DATE: 1/2/71

DATE: 1/2/71

DATE: 1/2/71



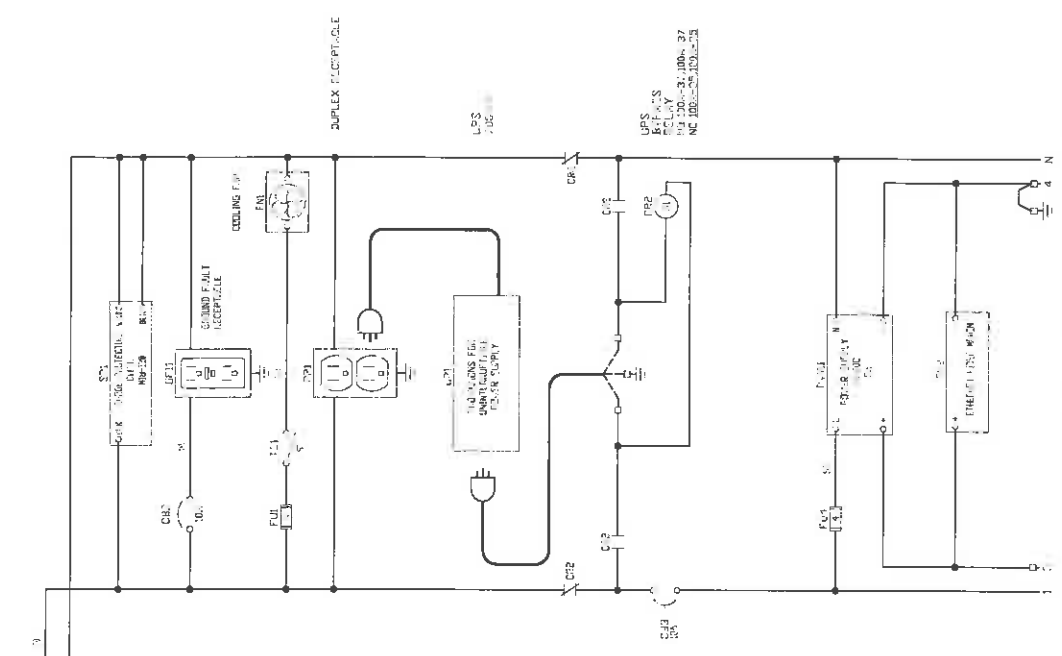
| | | | | | | | | |
|---|------------------|--------------------------|--|------|---------|---------|-----------|----------|
| <div>ICS
INSTRUMENT
CONTROL SYSTEMS</div> | DATE | REVISION DESCRIPTION | <div>water and wastewater control solutions</div> <div>ICS HEALY-RUFF</div> <div>Instrument Control Systems, Inc.
1200 38th Avenue North, Suite 100, Phoenix, AZ 85041
Ph: (602) 581-0088 Fax: (602) 581-2167 www.icshealyruff.com</div> <div>(C) 2014, CONFIDENTIAL
THIS DOCUMENT IS NOT TO BE DISCLOSED. ALL
RIGHTS RESERVED BY
INSTRUMENT CONTROL
SYSTEMS, INC.</div> | DATE | TO, FOR | PROJECT | PROD. NO. | DWG. NO. |
| | 8-1-10
1/4/11 | AS BUILT
AS IN TALLED | | | | | | |

FIELD OF AS NOTED

CONTROL PANEL

WALL DISCONNECT
PROTECTED BY GROUND
FAULT PROTECTION TO BE
FIELDED BY OTHERS

100V 15A 60Hz
POWER FROM
LIGHTING PANEL W/ 60A
CIRCUIT 20



| | | | |
|--------|--|----------------------|--|
| DATE | | REVISION DESCRIPTION | |
| 1/2/71 | | 1. S. J. J. | |
| 1/2/71 | | 2. S. J. J. | |
| 1/2/71 | | 3. S. J. J. | |
| 1/2/71 | | 4. S. J. J. | |
| 1/2/71 | | 5. S. J. J. | |
| 1/2/71 | | 6. S. J. J. | |
| 1/2/71 | | 7. S. J. J. | |
| 1/2/71 | | 8. S. J. J. | |
| 1/2/71 | | 9. S. J. J. | |
| 1/2/71 | | 10. S. J. J. | |
| 1/2/71 | | 11. S. J. J. | |
| 1/2/71 | | 12. S. J. J. | |
| 1/2/71 | | 13. S. J. J. | |
| 1/2/71 | | 14. S. J. J. | |
| 1/2/71 | | 15. S. J. J. | |
| 1/2/71 | | 16. S. J. J. | |
| 1/2/71 | | 17. S. J. J. | |
| 1/2/71 | | 18. S. J. J. | |
| 1/2/71 | | 19. S. J. J. | |
| 1/2/71 | | 20. S. J. J. | |
| 1/2/71 | | 21. S. J. J. | |
| 1/2/71 | | 22. S. J. J. | |
| 1/2/71 | | 23. S. J. J. | |
| 1/2/71 | | 24. S. J. J. | |
| 1/2/71 | | 25. S. J. J. | |
| 1/2/71 | | 26. S. J. J. | |
| 1/2/71 | | 27. S. J. J. | |
| 1/2/71 | | 28. S. J. J. | |
| 1/2/71 | | 29. S. J. J. | |
| 1/2/71 | | 30. S. J. J. | |
| 1/2/71 | | 31. S. J. J. | |
| 1/2/71 | | 32. S. J. J. | |
| 1/2/71 | | 33. S. J. J. | |
| 1/2/71 | | 34. S. J. J. | |
| 1/2/71 | | 35. S. J. J. | |
| 1/2/71 | | 36. S. J. J. | |
| 1/2/71 | | 37. S. J. J. | |
| 1/2/71 | | 38. S. J. J. | |
| 1/2/71 | | 39. S. J. J. | |
| 1/2/71 | | 40. S. J. J. | |
| 1/2/71 | | 41. S. J. J. | |
| 1/2/71 | | 42. S. J. J. | |
| 1/2/71 | | 43. S. J. J. | |
| 1/2/71 | | 44. S. J. J. | |
| 1/2/71 | | 45. S. J. J. | |

AS INSTALLED
DESIGNED BY
S. J. J.
DATE 1/2/71

ICS INSTRUMENT
CONTROL SYSTEMS

ICS HEALY-RUFF
Instrument Control Systems, Inc.
P.O. Box 1000, St. Louis, MO 63101
Phone: (314) 524-2400

DATE
DWG. NO.
ENGR.
SHEET

PROJECT
QUINCY IN RICH H. JOHNS
REINFORCE OFFICE (194-2)
CONTROL POWER 30000

PROJ. NO.
13-40
DWS. NO.
10-1

DRAWING INDEX

| FILENAME | TITLE_1 | TITLE_2 | TITLE_3 | TITLE_4 | FILE DATE |
|------------|--------------------------|----------------------|---------|---------|-----------|
| 1536J-NDX | | PLC I/O SCHEDULE | | | 8/17/2000 |
| 1536J-001 | PUMP HEADS - PH, GRU-PHD | ENCLOSURE DETAIL | | | 8/17/2000 |
| 1536J-002 | PUMP HEADS - PH, GRU-PHD | PLC I/O SCHEDULE | | | 8/17/2000 |
| 1536J-100A | PUMP HEADS - PH, GRU-PHD | CONTROL POWER WIRING | | | 8/17/2000 |

NOTED: 12/17/2001 1:30 PM BY: PTH AND TLEW/AB
 1536J-NDX 1536J-001 1536J-002 1536J-100A
 1536J-NDX 1536J-001 1536J-002 1536J-100A

ICS INSTRUMENT CONTROL SYSTEMS

| DATE | REVISION DESCRIPTION |
|---------|----------------------|
| 3/28/90 | 8.001 |
| 1/20/91 | 8.001 |
| | |
| | |
| | |

ICS HEALY-RUFF
 Instrument Control Systems, Inc.
 2000 100 Avenue West, Suite 100, Minneapolis, MN 55411
 Ph: (612) 555-5555 Fax: (612) 555-5555 www.icshealyruff.com

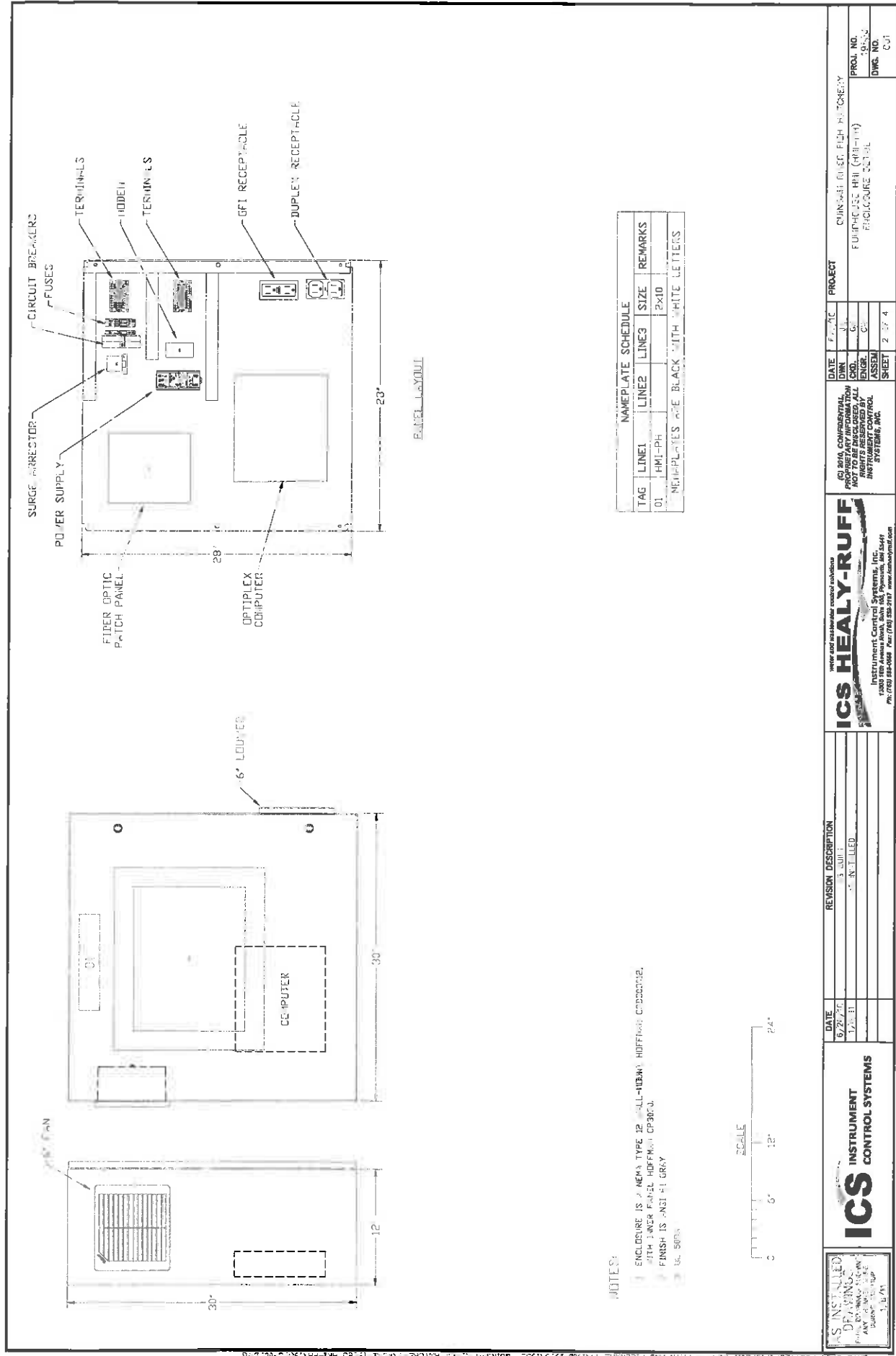
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 SYSTEMS, INC.

| DATE | DATE | DATE |
|------|------|-------|
| DIN | ENR | ASSEM |
| 000 | 000 | 000 |
| | | |
| | | |

PROJECT

QUINCY RIVER FISH HATCHERY
 CONCRETE RACEY

PROJ. NO.
 DWG. NO.



NAMEPLATE SCHEDULE

| TAG | LINE1 | LINE2 | LINE3 | SIZE | REMARKS |
|-----|--------|-------|-------|------|---------|
| 01 | HMI-PH | | | 2x10 | |

NAMEPLATES ARE BLACK WITH WHITE LETTERS

- NOTES:
- ENCLOSURE IS 1/2" ALUMINUM TYPE 12" (ALL-NEW) HOFFMANN CDS00012.
 - WITH 1" LINE PANEL HOFFMANN CP300.
 - FINISH IS ANTI-GLARE.
 - US 500A.

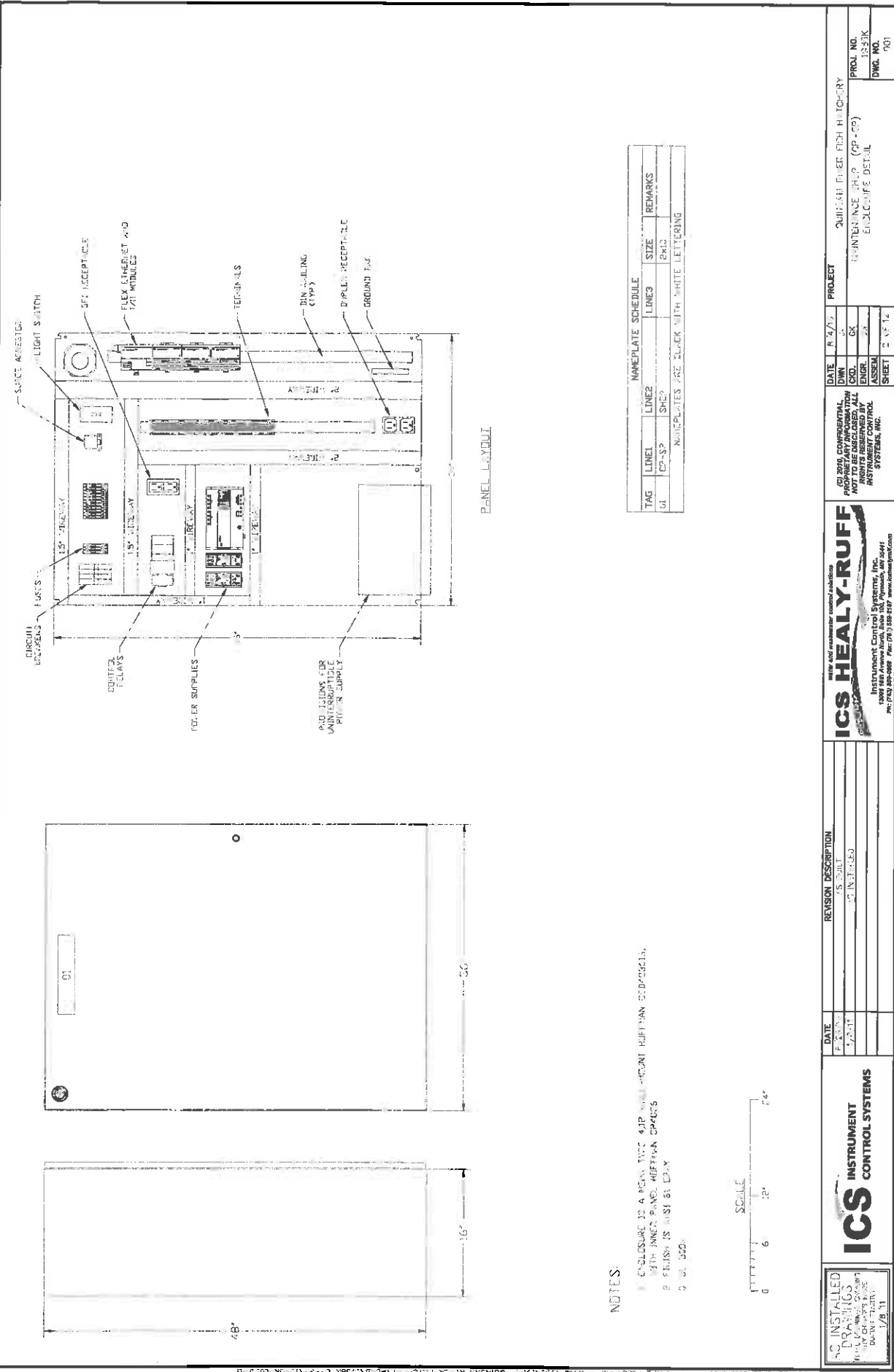


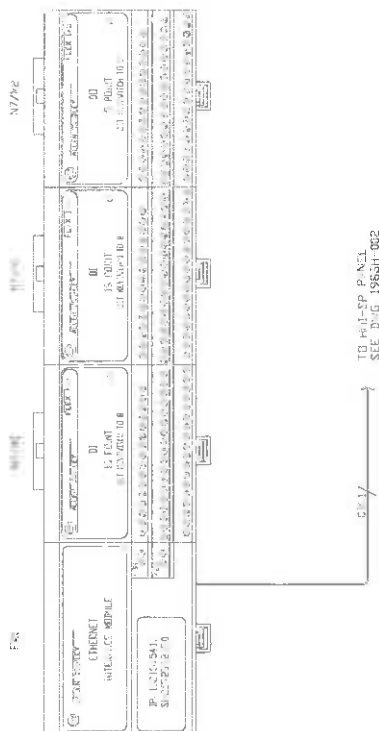
| | | | | | | | |
|---|--|---|--|--|--|--|--|
| ICS INSTRUMENT CONTROL SYSTEMS
1500 S. 10TH AVE. SUITE 100
DENVER, CO 80202
TEL: (303) 733-7877 FAX: (303) 733-7878 | | ICS HEALY-RUFF
HEALY-RUFF INSTRUMENT CONTROL SYSTEMS, INC.
11700 E. 10TH AVE. SUITE 100
DENVER, CO 80231
TEL: (303) 733-7877 FAX: (303) 733-7878 | | DATE: 6/27/97
REVISION: 1
DESCRIPTION: 1/2" ALUMINUM TYPE 12" (ALL-NEW) HOFFMANN CDS00012. | | DATE: 6/27/97
PROJECT: CHINESE BUILT HIGH RISE
FURNITURE HALL (PH-111)
ENCLOSURE 001-01 | |
| PROJECT NO.: 10000
DWS NO.: 001 | | DATE: 6/27/97
PROJECT: CHINESE BUILT HIGH RISE
FURNITURE HALL (PH-111)
ENCLOSURE 001-01 | | DATE: 6/27/97
PROJECT: CHINESE BUILT HIGH RISE
FURNITURE HALL (PH-111)
ENCLOSURE 001-01 | | DATE: 6/27/97
PROJECT: CHINESE BUILT HIGH RISE
FURNITURE HALL (PH-111)
ENCLOSURE 001-01 | |

DRAWING INDEX

| FILENAME | TITLE_1 | TITLE_2 | TITLE_3 | TITLE_4 | FILEDATE |
|------------|--------------------------|--------------------|---------|---------|----------|
| 1555A-NDA | | STARTING INDEX | | | 8/9/2010 |
| 1555A-C01 | MAINTENANCE SHOP (CP-SP) | ENCLOSURE RETAIL | | | 8/9/2010 |
| 1555A-C02 | MAINTENANCE SHOP (CP-SP) | PLC I/O SCHEDULE | | | 8/9/2010 |
| 1555A-100A | MAINTENANCE SHOP (CP-SP) | PLC IDENTIFICATION | | | 8/9/2010 |
| 1555A-100B | MAINTENANCE SHOP (CP-SP) | PLC I/O SCHEDULE | | | 8/9/2010 |
| 1555A-101 | MAINTENANCE SHOP (CP-SP) | PLC IDENTIFICATION | | | 8/9/2010 |
| 1555A-102 | MAINTENANCE SHOP (CP-SP) | PLC I/O SCHEDULE | | | 8/9/2010 |
| 1555A-103 | MAINTENANCE SHOP (CP-SP) | PLC IDENTIFICATION | | | 8/9/2010 |
| 1555A-104 | MAINTENANCE SHOP (CP-SP) | PLC I/O SCHEDULE | | | 8/9/2010 |
| 1555A-105 | MAINTENANCE SHOP (CP-SP) | PLC IDENTIFICATION | | | 8/9/2010 |
| 1555A-106 | MAINTENANCE SHOP (CP-SP) | PLC I/O SCHEDULE | | | 8/9/2010 |
| 1555A-107 | MAINTENANCE SHOP (CP-SP) | PLC IDENTIFICATION | | | 8/9/2010 |
| 1555A-108 | MAINTENANCE SHOP (CP-SP) | PLC I/O SCHEDULE | | | 8/9/2010 |
| 1555A-109 | MAINTENANCE SHOP (CP-SP) | PLC IDENTIFICATION | | | 8/9/2010 |
| 1555A-110 | MAINTENANCE SHOP (CP-SP) | PLC I/O SCHEDULE | | | 8/9/2010 |

| | | | | | |
|---|------------------|---|---|---|---|
|  ICS
INSTRUMENT
CONTROL SYSTEMS | DATE
8/9/2010 | REVISION DESCRIPTION
1. INITIAL | PROJECT
JUNCTION POWER HIGH HATCHERY | DATE
8/9/2010 | PROJECT
JUNCTION POWER HIGH HATCHERY |
| | DATE
8/9/2010 | REVISION DESCRIPTION
1. INITIAL | PROJECT
JUNCTION POWER HIGH HATCHERY | DATE
8/9/2010 | PROJECT
JUNCTION POWER HIGH HATCHERY |
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1555A-NDA | | (C) 2010, CONFIDENTIAL
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1555A-NDA | |
| ICS HEALY-RUFF
Instrument Control Systems, Inc.
1555A-NDA
1555A-NDA | | ICS HEALY-RUFF
Instrument Control Systems, Inc.
1555A-NDA
1555A-NDA | | ICS HEALY-RUFF
Instrument Control Systems, Inc.
1555A-NDA
1555A-NDA | |
| PROJECT NO.
1555A-NDA | | PROJECT NO.
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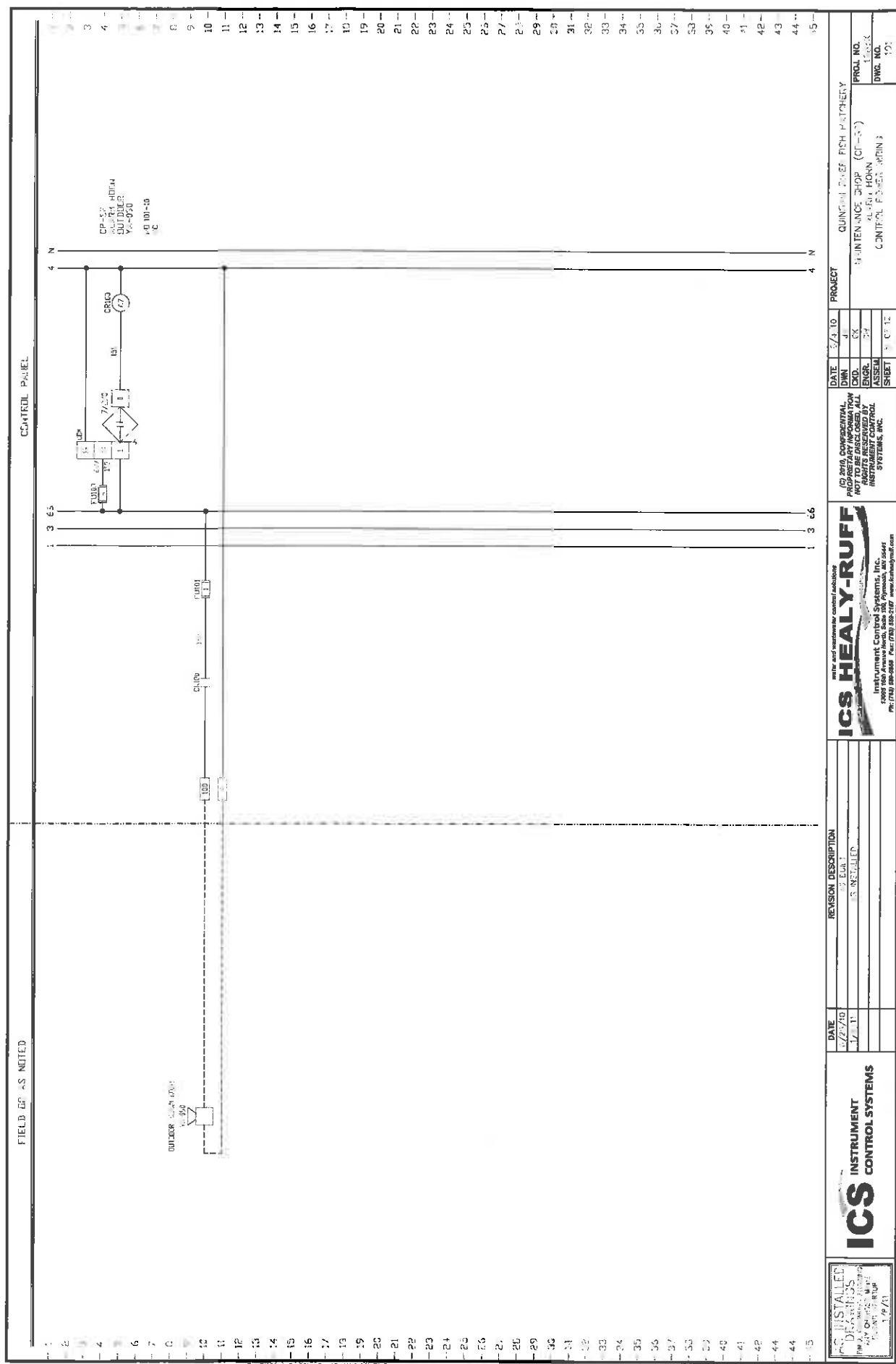
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ICS HEALY-RUFF
water and wastewater control solutions

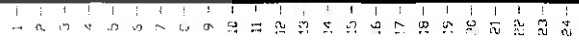
Instrument Control Systems, Inc.
12003 1850 Avenida South, Suite 100, Lynnwood, WA 98035
PH: (713) 555-0558 FAX: (713) 550-2187 info@healy-ruff.com

| DATE | REVISION DESCRIPTION |
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| 1/24/10 | AS BUILT |
| 1/20/11 | REVISED TO ILLC |
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|-------|---------|--------------------------|----------------------------|
| DATE | 10/2/75 | PROJECT | QUINCY RIVER FISH HATCHERY |
| DWN | JA | | |
| C'D. | CF | MAINTENANCE SHOP (CP-SP) | PROJ. NO. 1565 |
| ENGR. | CW | PLC & V. SCHEDULE | DWG. NO. 002 |
| ASSN. | | | |
| SHEET | 3 OF 12 | | |



CONTRF_ PANEL

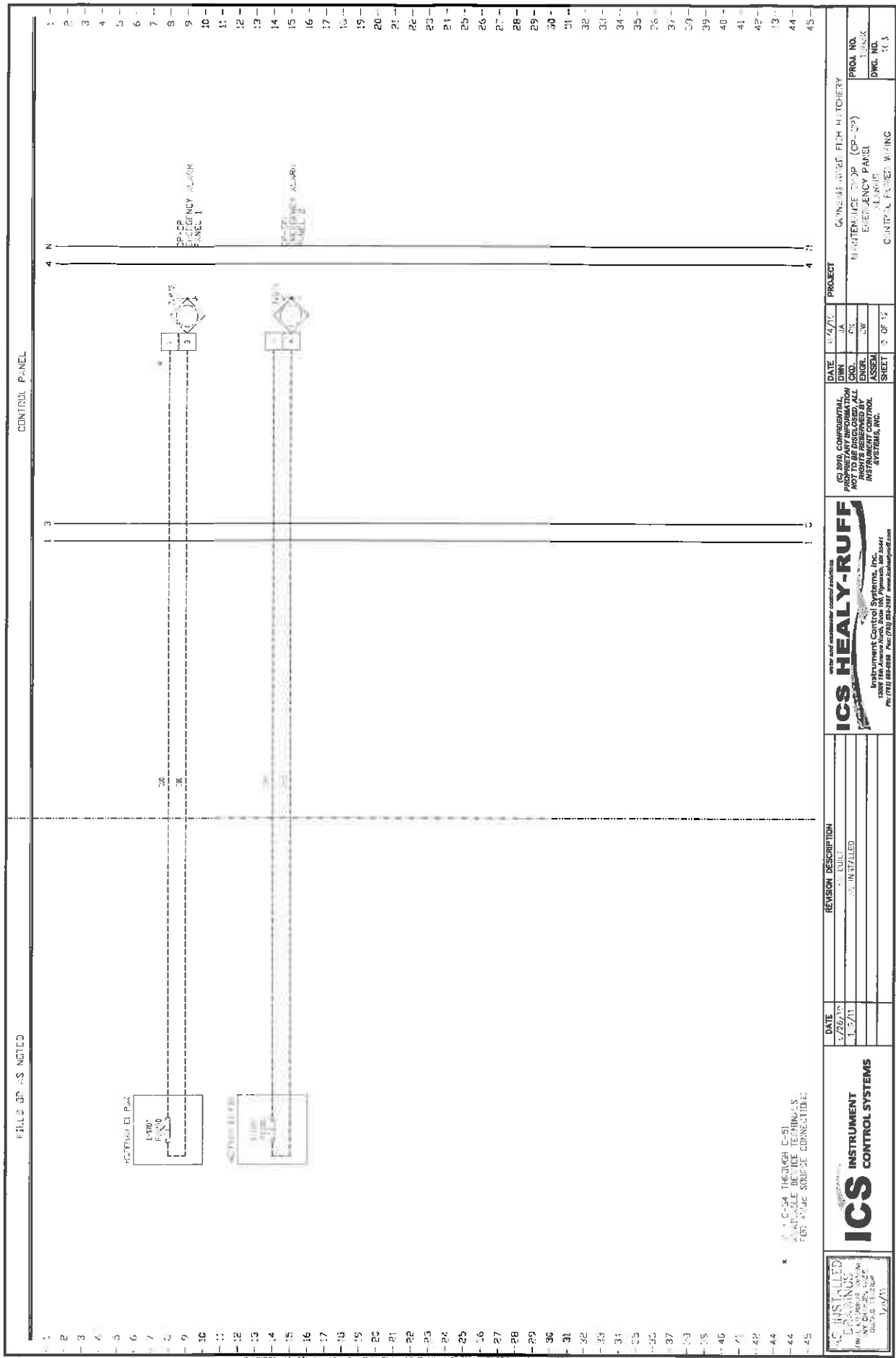


ICS INSTRUMENT CONTROL SYSTEMS

ICS HEALY-RUFF
water and wastewater control solutions
Instrument Control Systems, Inc.
12000 5th Avenue North, Suite 100, Plymouth, MN 55441

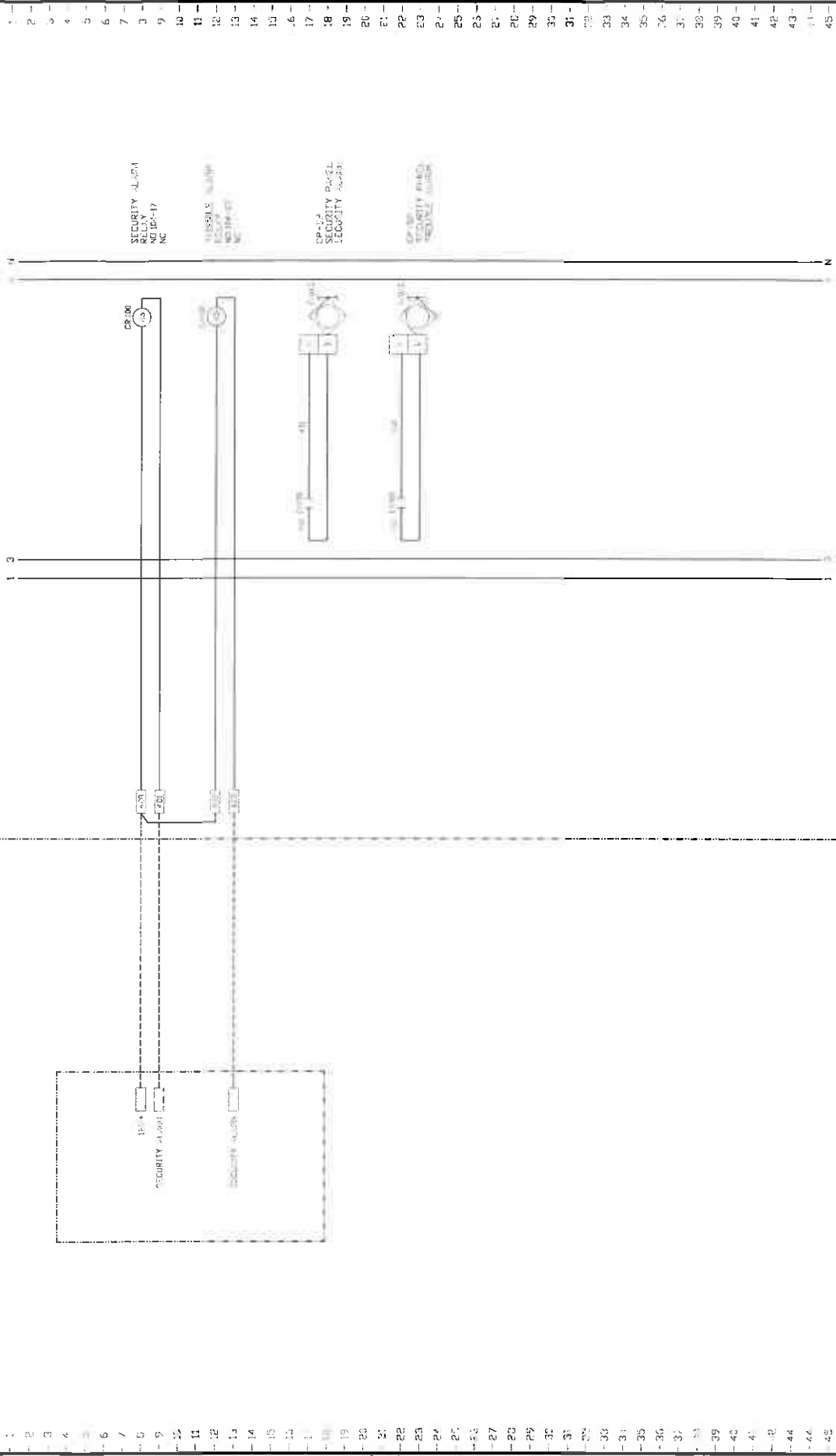
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| CRD. | GK | |
| ENGR. | CW | |
| ASSEM | | |
| SHEET | OF 12 | |

| | | |
|----------------------------|------------------------|-----------|
| QUINCY POWER FISH HATCHERY | MINTENANCE SHOP (P-2P) | PROJ. NO. |
| | PANEL REPAIRS | 1986K |
| | CENTRAL POWER PLANT | DWG. NO. |
| | | 102 |



FIELD OR AS NOTED

CONTROL PANEL



ICS INSTRUMENT CONTROL SYSTEMS
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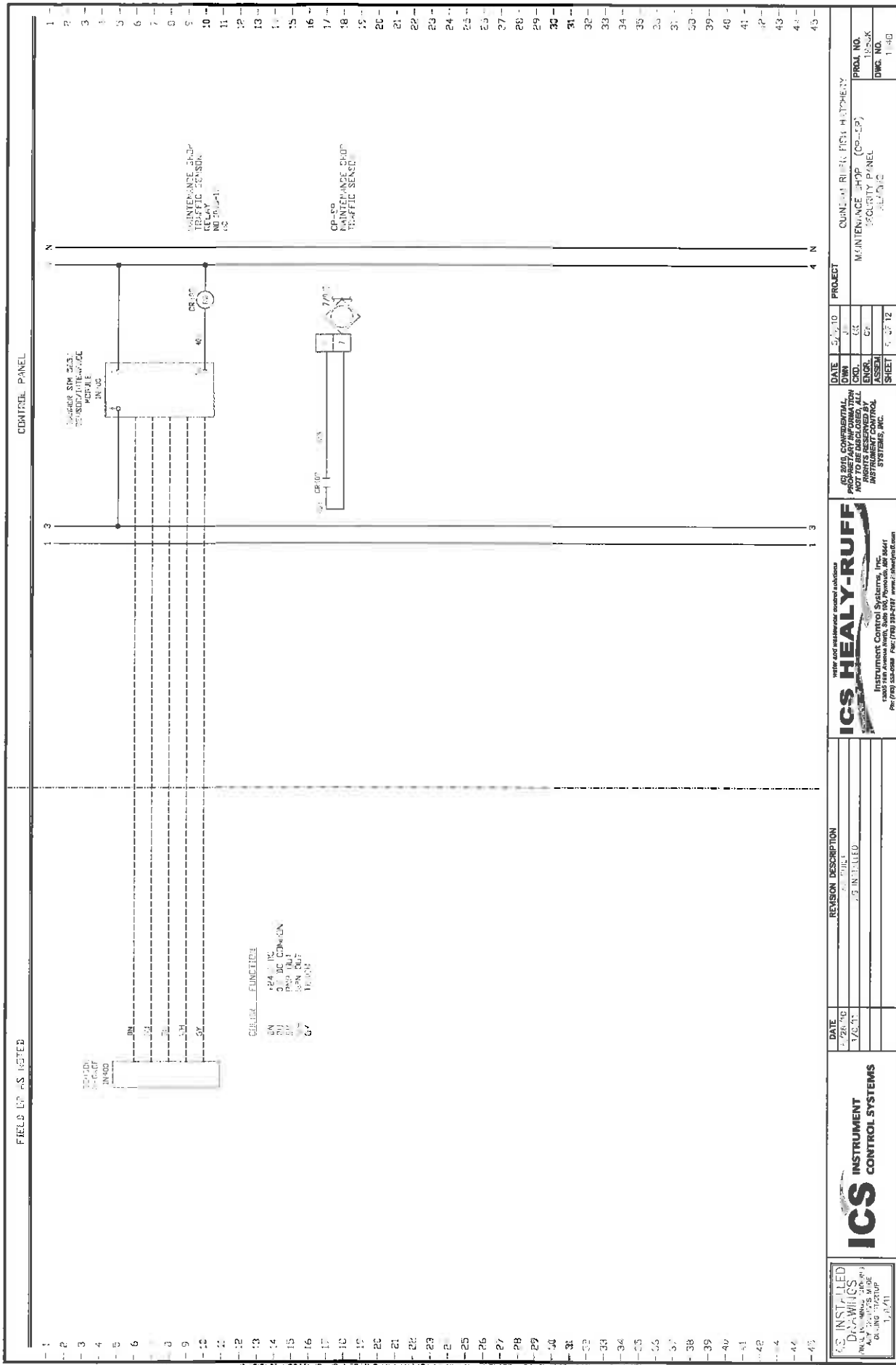
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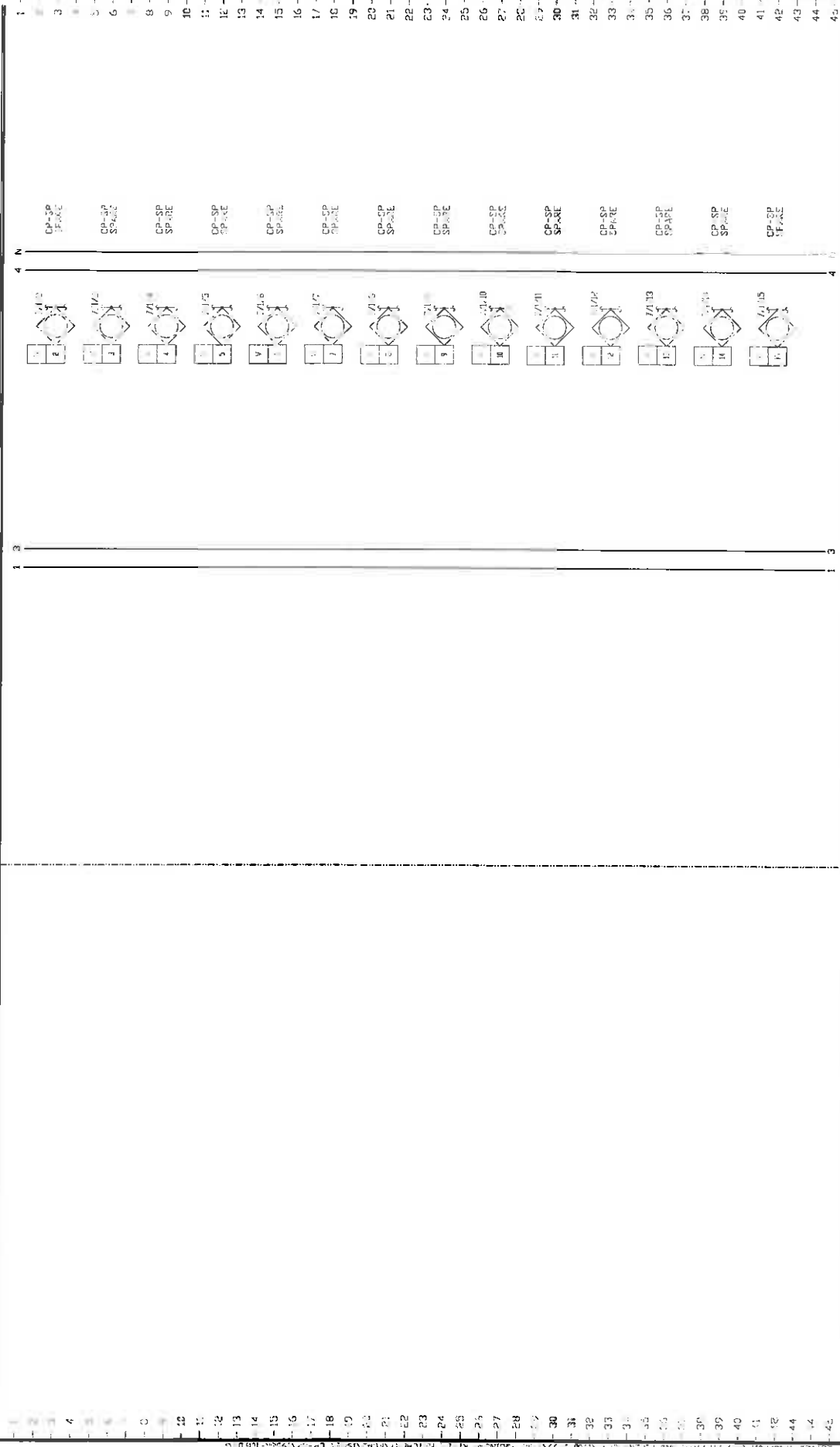


CONTROL PANEL



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CONTROL PANEL



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|--|--|--|--|--|--|--|---|---|---|--|
| <div><div>NO INSTALLED
DRAWINGS</div><div>FINAL AS-BUILT DRAWING</div><div>AT 4 INCHES WIDE</div><div>DURING TIE-UP</div><div>1/6/11</div></div> | <div><div>ICS</div><div>INSTRUMENT
CONTROL SYSTEMS</div></div> | <div><div>DATE</div><div>5/7/95</div><div>1/2/97</div></div> | <div><div>REVISION DESCRIPTION</div><div>AS BUILT</div><div>AS BUILT</div></div> | <div><div>DATE</div><div>5/7/95</div><div>1/2/97</div></div> | <div><div>ICSH</div><div>HEALY-RUFF</div><div>INSTRUMENT CONTROL SYSTEMS, INC.</div><div>1000 First Avenue North, Suite 100, Plymouth, MN 55441</div><div>PH: (612) 558-2222 Fax: (612) 558-2187 WWW: www.icshealyruff.com</div></div> | <div><div>(C) 2010, CONCEPTUAL
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NOT TO BE DISCLOSED, ALL
RIGHTS RESERVED BY
INSTRUMENT CONTROL
SYSTEMS, INC.</div></div> | <div><div>DATE</div><div>07/11</div><div>08</div></div> | <div><div>PROJECT</div><div>MAINTENANCE SKEP (CP-TP)</div><div>SPACE DITCH INPUT 2</div><div>CONTROL PANEL WIRING</div></div> | <div><div>PROJ. NO.</div><div>105</div></div> | <div><div>DWG. NO.</div><div>106</div></div> |
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