

1. ALL CONTROL AND POWER WIRING TO BE #14 AWG MINIMUM, TEN AND COLOR CODED AS FOLLOWS:
 

AC LINE	BLACK (BLK)	GROUND	GREEN (GRN)
NEUTRAL	WHITE (WHT)	24 VDC (POS)	BROWN (BRN)
AC CONTROL	RED (RED)	24 VDC (RETURN)	PURPLE (PLP)
DC CONTROL	BLUE (BLU)	90 VDC	
INTERLOCK	YELLOW (YEL)		
2. ALL WIRES REQUIRE IDENTIFICATION USING PLASTIC ADHESIVE OR SLEEVE TYPE MARKERS.
3. ALL WIRES SHALL CONFORM TO EITHER THE CANADIAN ELECTRICAL CODE OR EXISTING LOCAL CODE, WHICHEVER IS APPLICABLE.

4. INDICATES SHIELDED CABLE WITH SHIELD CONNECTED TO GROUND TERMINAL.
 

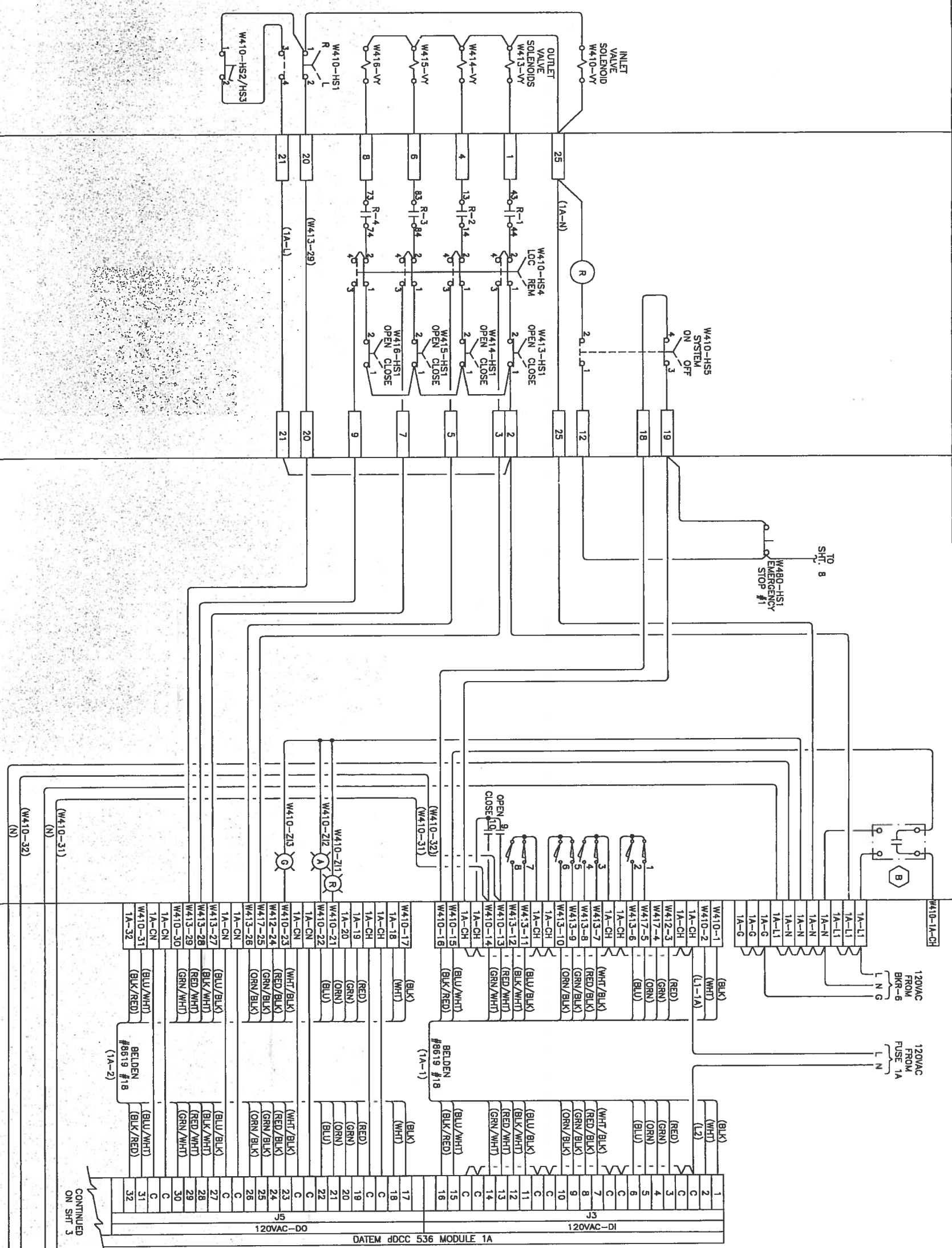
1	INDICATES SHIELDED CABLE WITH SHIELD CONNECTED TO GROUND TERMINAL.
2	SEE POWER DISTRIBUTION DWG NO. 89-MJ3129-D32
5. TERMINAL WIRE NUMBERS USED ON THIS DWG.
 

SPARE NUMBERS ALLOCATED FOR THIS DWG
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NO	DATE	BY	APPD	MD	REVISIONS	CHANGE
2	JAN 91	SD			AS BUILT FROM CONTROL AND METERING LOOP DWGS FOR INCLUSION OF PANEL MODIFICATIONS	

**Wardrop-Maclaren**  
 ENGINEERING CONSULTANTS  
 WINNIPEG N.E.W.P.C.C.  
 WEIGH OUT AND SEPTAGE SYSTEM PANEL INTERCONNECTION WIRING DIAGRAM (#1 WEST)

Customer P.O. No. 89-MJ3129  
 Order No. 89-MJ3129  
 Drawing No. 3 of 24  
 Date: 18/01/91  
 Scale: NTS  
 Project: 89-MJ3129-D31 2



1. ALL CONTROL AND POWER WIRING TO BE #14 AWG MINIMUM, TEN AND COLOR CODED AS FOLLOWS:  
AC LINE BLACK (BLK)  
NEUTRAL WHITE (WHT)  
DC CONTROL RED (RED)  
INTERLOCK YELLOW (YEL)
2. ALL WIRE REQUIRE IDENTIFICATION USING PLASTIC ADHESIVE OR STEEL TYPE MARKERS.
3. ALL WIRE SHALL CONFORM TO EITHER THE CANADIAN ELECTRICAL CODE OR EXISTING LOCAL CODE, WHICHEVER IS APPLICABLE.
4. INDICATES SHIELDED CABLE WITH SHIELD CONNECTED TO GROUND TERMINAL.
5. \*1/2" DESIGNATES 120 VAC HOT  
1/2" DESIGNATES 120 VAC NEUTRAL

6. TERMINAL/WIRE NUMBERS USED ON THIS DWG:  
SPARE NUMBERS ALLOCATED FOR THIS DWG:

W/O	DATE	BY	APPROV	REVISIONS	CHANGE
2	JUN 91	SD	MD	AS BUILT FROM CONTROL AND METERING LOOP DWG FOR INCLUSION OF PANEL MODIFICATIONS	

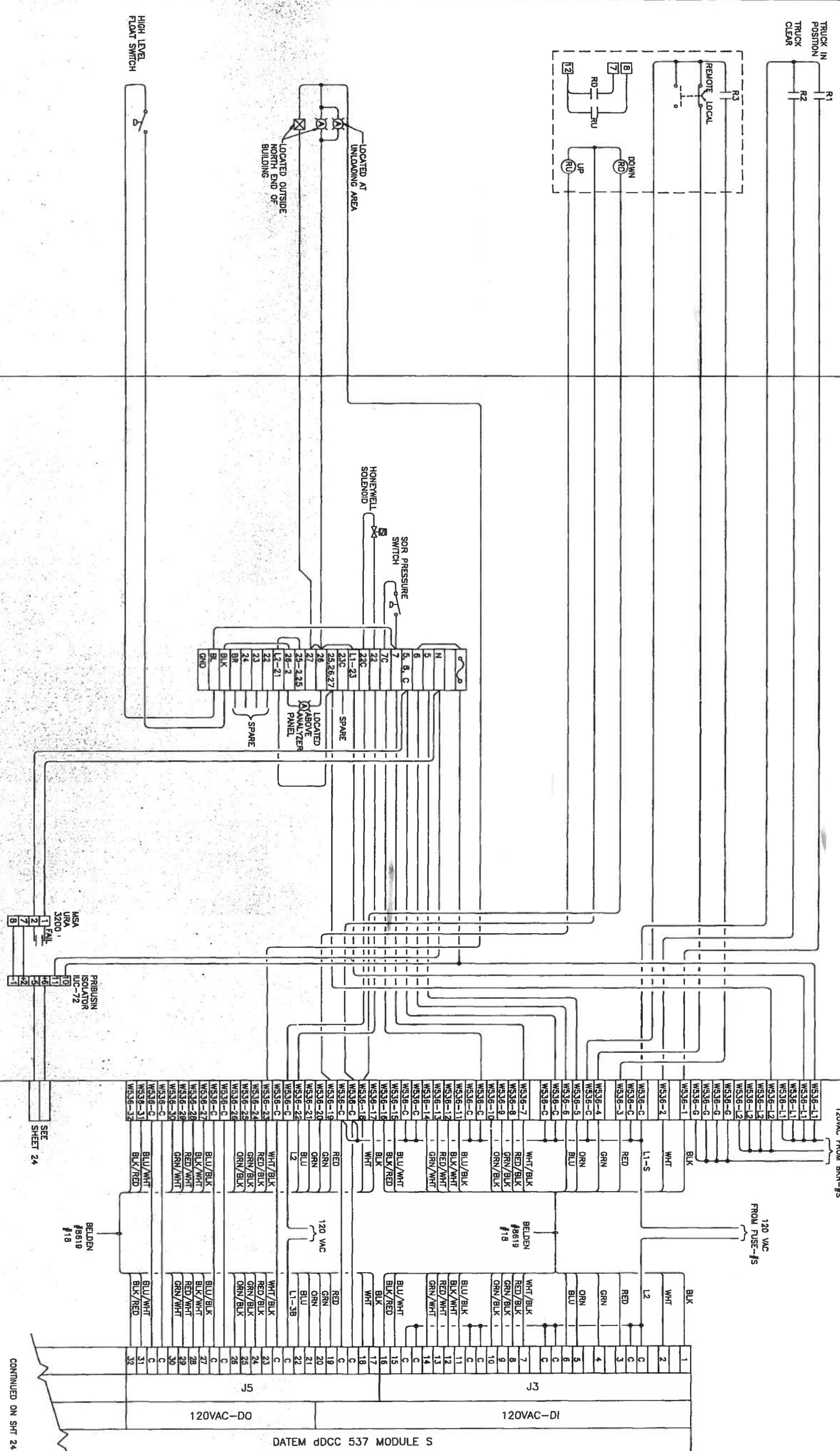
W/O	DATE	BY	APPROV	REVISIONS	CHANGE
2	JUN 91	SD	MD	AS BUILT FROM CONTROL AND METERING LOOP DWG FOR INCLUSION OF PANEL MODIFICATIONS	

**Wardrop-Maclaren**  
ENGINEERING CONSULTANTS

WINNIPEG N.E.W.P.C.C.  
WEIGH OUT AND SEPTAGE SYSTEM PANEL  
INTERCONNECTION WIRING DIAGRAM (#1 WEST)

Customer: P.G. Mc  
Drawn by: PUA  
Checked by: PUA  
Date: JULY 18, 1991  
Date: 2 of 24  
Sheet: 2 of 24  
Scale: NTS

89-MJ3129-D31 2



1. ALL CONTROL AND POWER WIRING TO BE #14 AWG MINIMUM. TFW AND COLOUR CODED AS FOLLOWS:
  - AC LINE BLACK (BLK)
  - GROUND (GRN)
  - NEUTRAL WHITE (WHT)
  - 24 VDC (POS) GREEN (GRN)
  - 24 VDC (RETURN) BROWN (BRN)
  - DC CONTROL RED (RED)
  - 90 VDC BLUE (BLU)
  - INTERLOCK YELLOW (YEL)
2. ALL WIRES REQUIRE IDENTIFICATION USING PLASTIC ADHESIVE OR SLEEVE TYPE MARKERS.
3. ALL WIRES SHALL CONFORM TO EITHER THE CANADIAN ELECTRICAL CODE OR EXISTING LOCAL CODE, WHICHEVER IS APPLICABLE.
4. INDICATES SHIELDED CABLE WITH SHIELD CONNECTED TO GROUND TERMINAL.
  - 1" DESIGNATES 120 VAC HOT
  - 2" DESIGNATES 120 VAC NEUTRAL
5. SEE POWER DISTRIBUTION DWG NO. 89-MJ3129-032
6. TERMINAL/WIRE NUMBERS USED ON THIS DWG:
  - SPARE NUMBERS ALLOCATED FOR THIS DWG:

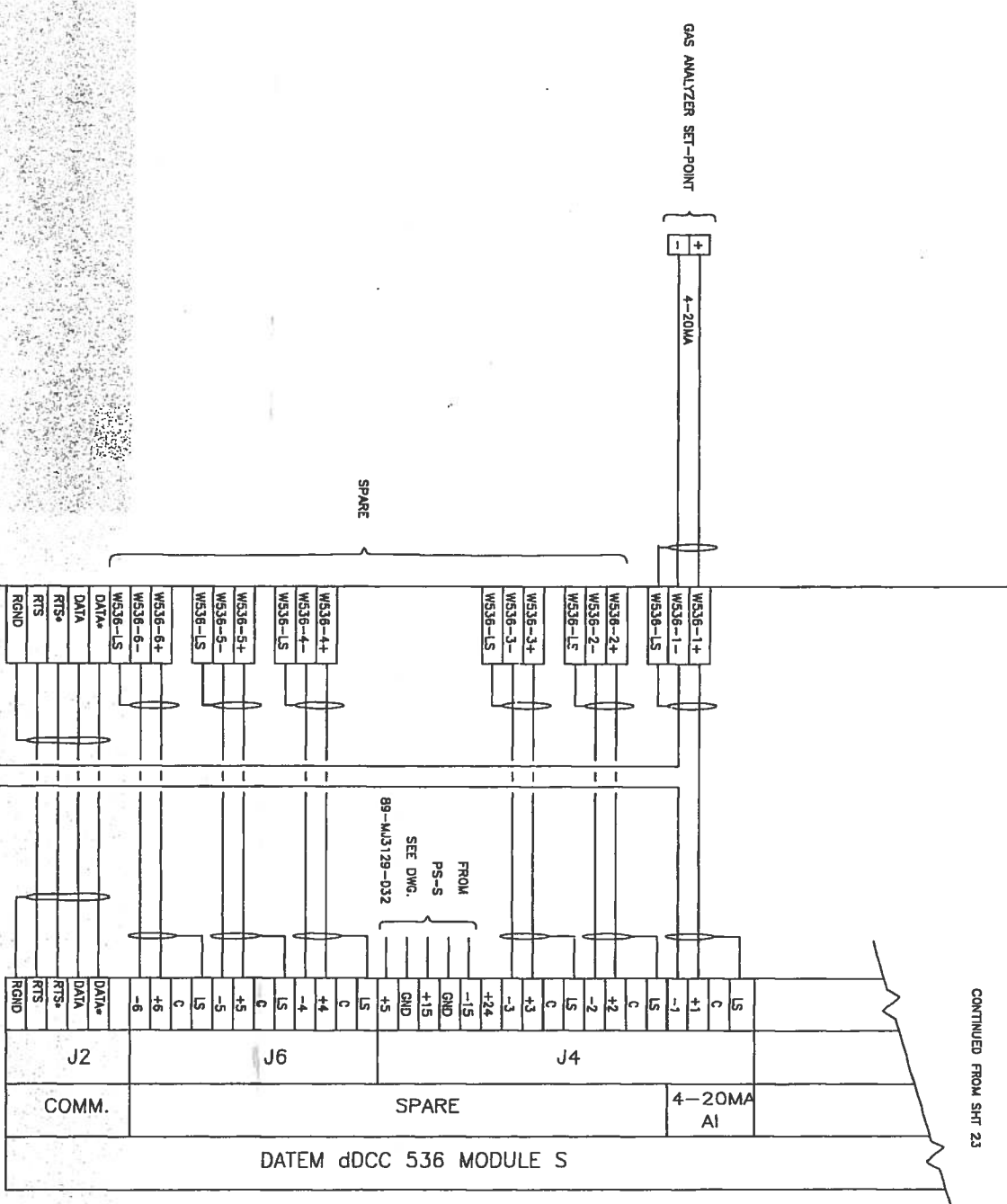
NO	DATE	BY	APPD	REVISIONS	CHANGE
2	JAN 91	SD	MD	AS BUILT FOR CONTROL AND WIRING LOOP DMS FOR INCLUSION OF PANEL MODIFICATIONS	

**Wardrop-Maclaren**  
ENGINEERING CONSULTANTS

WINNIPEG N.E.W.P.C.C.  
WEIGH OUT AND SEPTAGE SYSTEM PANEL  
INTERCONNECTION WIRING DIAGRAM

Customer P.O. No. 89-MJ3129  
Drawing No. 23 of 24  
Date JULY 16, 1990  
Approved by PMA  
Date

CONTINUED ON SHT 24



CONTINUED FROM SHF 23

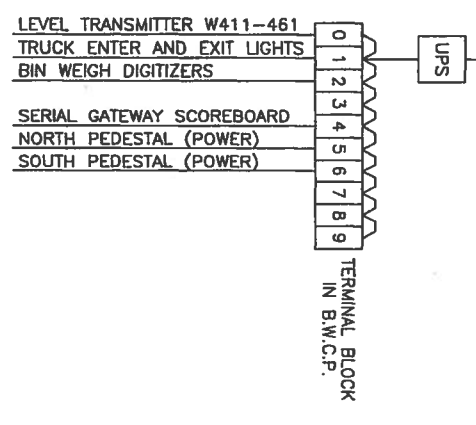
1. ALL CONTROL AND POWER WIRING TO BE #14 AWG MINIMUM, TEN AND COLOR CODED AS FOLLOWS:
  - AC LINE BLACK (BLK)
  - NEUTRAL WHITE (WHT)
  - DC CONTROL RED (RED)
  - INTERLOCK YELLOW (YEL)
  - GROUND 24 VDC (POS) GREEN (GRN)
  - 24 VDC (RETURN) BROWN (BRN)
  - 90 VDC PURPLE (PLP)
2. ALL WIRES REQUIRE IDENTIFICATION USING PLASTIC ADHESIVE OR SLEEVE TYPE MARKERS.
3. ALL WIRES SHALL CONFORM TO EITHER THE CANADIAN ELECTRICAL CODE OR EXISTING LOCAL CODE, WHICHEVER IS APPLICABLE.
4. INDICATES SHIELDED CABLE WITH SHIELD CONNECTED TO GROUND TERMINAL.
  - 1/2" DESIGNATES 1/2" WAG HOT
  - 1/2" DESIGNATES 1/2" WAG NEUTRAL
5. SEE POWER DISTRIBUTION DWG NO. 89-MJ3129-D32
6. TERMINAL/WIRE NUMBERS USED ON THIS DWG:
  - SPARE NUMBERS ALLOCATED FOR THIS DWG.

NO	DATE	BY	APPD	REVISIONS	CHANGE	DATE	BY	APPD
2	JAN 91	SD	MD	AS BUILT FROM CONTROL AND METERING LOOP DWGS. FOR INCLUSION OF PANEL MODIFICATIONS				

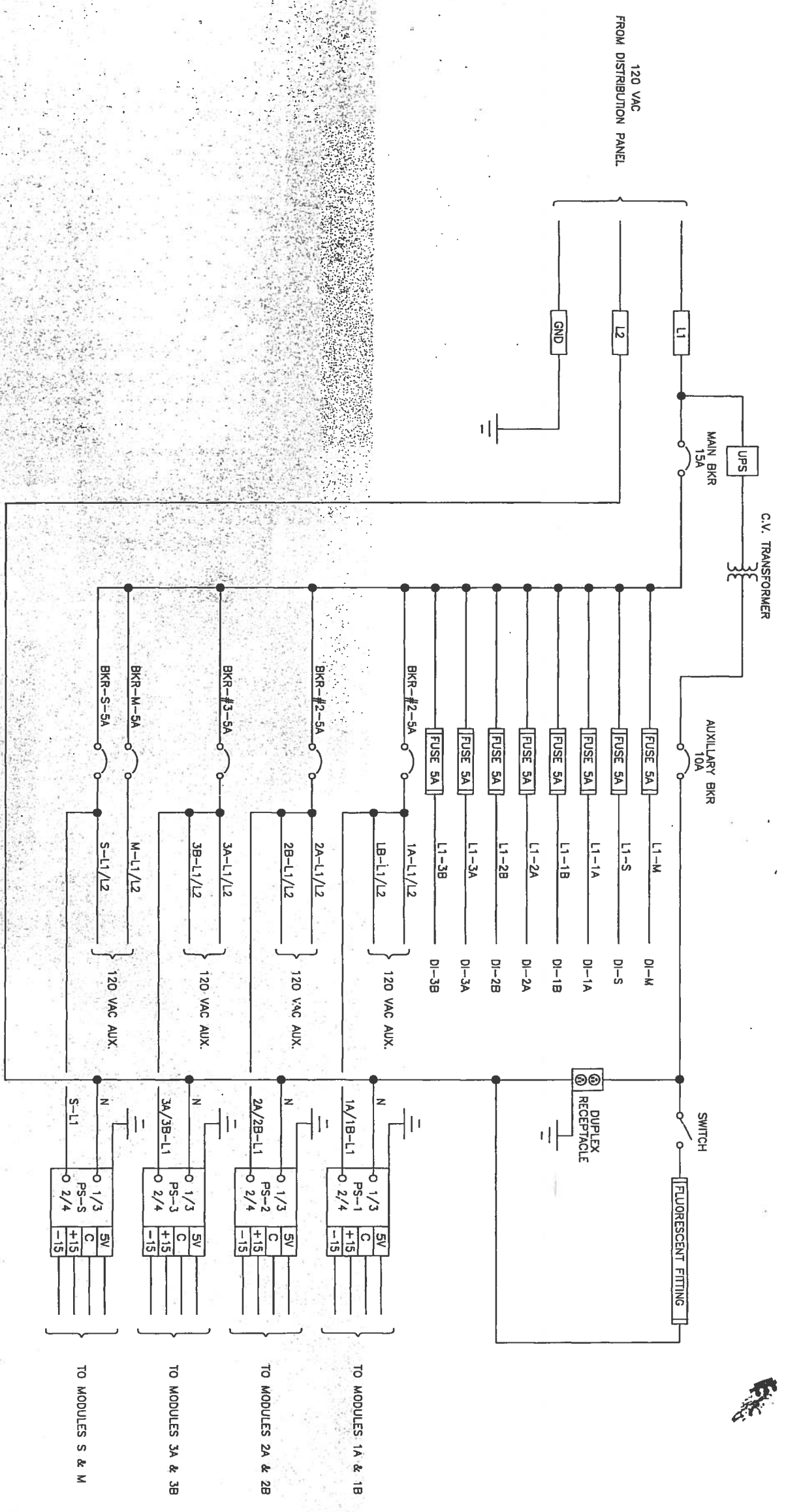
  

<p><b>Wardrop-Maclaren</b> ENGINEERING CONSULTANTS</p> <p>WINNIPEG, N.W.P.C.C. WEIGH OUT AND SEPTAGE SYSTEM PANEL INTERCONNECTION WIRING DIAGRAM</p> <p>Job No. 89-MJ3129 Customer: PIMA Drawn by: PIMA Checked by: PIMA Date: 24 of 24 Scale: NTS</p>	<p>Standard Drawing No. 89-1001 Drawing No. 89-MJ3129-D31 Rev. 2</p>
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WEEL CCTS  
CCT 21 CCT 23 (SPARE)



# POWER DISTRIBUTION



- ALL CONTROL AND POWER WIRING TO BE #14 AWG MINIMUM, TEM AND COLOUR CODED AS FOLLOWS:  
AC LINE BLACK (BLK)  
NEUTRAL WHITE (WHT)  
DC CONTROL RED (RED)  
INTERLOCK BLUE (BLU)  
YELLOW (YEL)
- ALL WIRES REQUIRE IDENTIFICATION USING PLASTIC ADHESIVE OR SLEEVE TYPE MARKERS.
- ALL WIRES SHALL CONFORM TO EITHER THE CANADIAN ELECTRICAL CODE OR EXISTING LOCAL CODE, WHICHEVER IS APPLICABLE.

- INDICATES SHIELDED CABLE WITH SHIELD CONNECTED TO GROUND TERMINAL.
- TERMINAL/WIRE NUMBERS USED ON THIS DWG:  
SPARE NUMBERS ALLOCATED FOR THIS DWG:

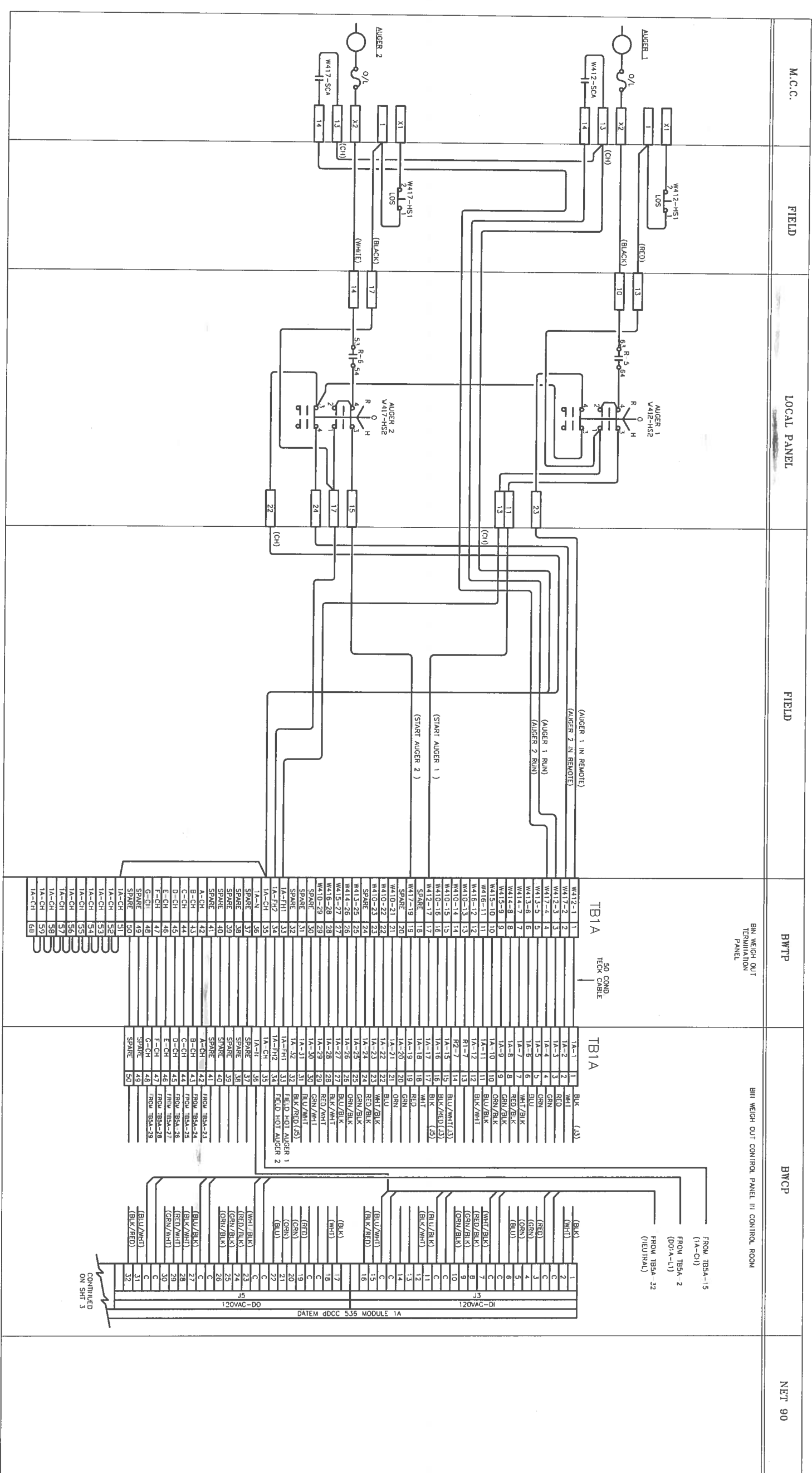
NO	DATE	BY	APPD	REVISIONS	CHANGE
2	JAN 91	SD		AS BUILT FROM CONTROL AND METERING LOOP DWGS. FOR INCLUSION OF PANEL MODIFICATIONS	

**Wardrop-MacLaren**  
ENGINEERING CONSULTANTS

WINNIPEG N.E.W.P.C.C.  
WEIGH OUT AND SEPTAGE SYSTEM PANEL  
INTERCONNECTION WIRING DIAGRAM

Customer P.O. No. 89-MJ3129  
Drawn by PMA Date OCT 22/89  
Checked by PMA Date OCT 22/89  
Approved by PMA Date OCT 22/89

Sheet 1 of 1  
Drawing No. 89-MJ3129-032  
Date



- ALL CONTROL AND POWER WIRING TO BE #14 AWG MINIMUM.  
AC LINE: BLACK (BK), BROWN (BRN), RED (RD), BLUE (BLU), YELLOW (YEL), GREEN (GRN), WHITE (WH), 24 VDC (POS) ORANGE (ORN), 24 VDC (RET/UN) BROWN (BRN), DC CONTROL: RED (RD), 90 VDC PURPLE (PR), YELLOW (YEL)
- ALL WIRES REQUIRE IDENTIFICATION USING PLASTIC ADHESIVE LABELS.
- ALL WIRES SHALL CONFORM TO EITHER THE CANADIAN ELECTRICAL CODE OR EXISTING LOCAL CODE, WHICHEVER IS APPLICABLE.
- INDICATES SHIELDED CABLE WITH SHIELD CONNECTED TO GROUND TERMINAL.
- DESIGNATES 120 VAC HOT WIRE } SEE POWER DISTRIBUTION DRAWING FOR DMC NO. NEP-1995
- TERMINAL/WIRE NUMBERS USED ON THIS DWG: SPARE NUMBERS ALLOCATED FOR THIS DWG:

NO.	REVISIONS	DATE	BY

DESIGNED BY	MU / JA	CHECKED BY	MU / JA
DRAWN BY	MBO	APPROVED BY	
SCALE		RELEASED FOR CONSTRUCTION	
DATE	JUNE 17, 1992	DATE	

ENGINEER'S SEAL

CONSULTANT DRAWING NO. 89-1A3129-D31

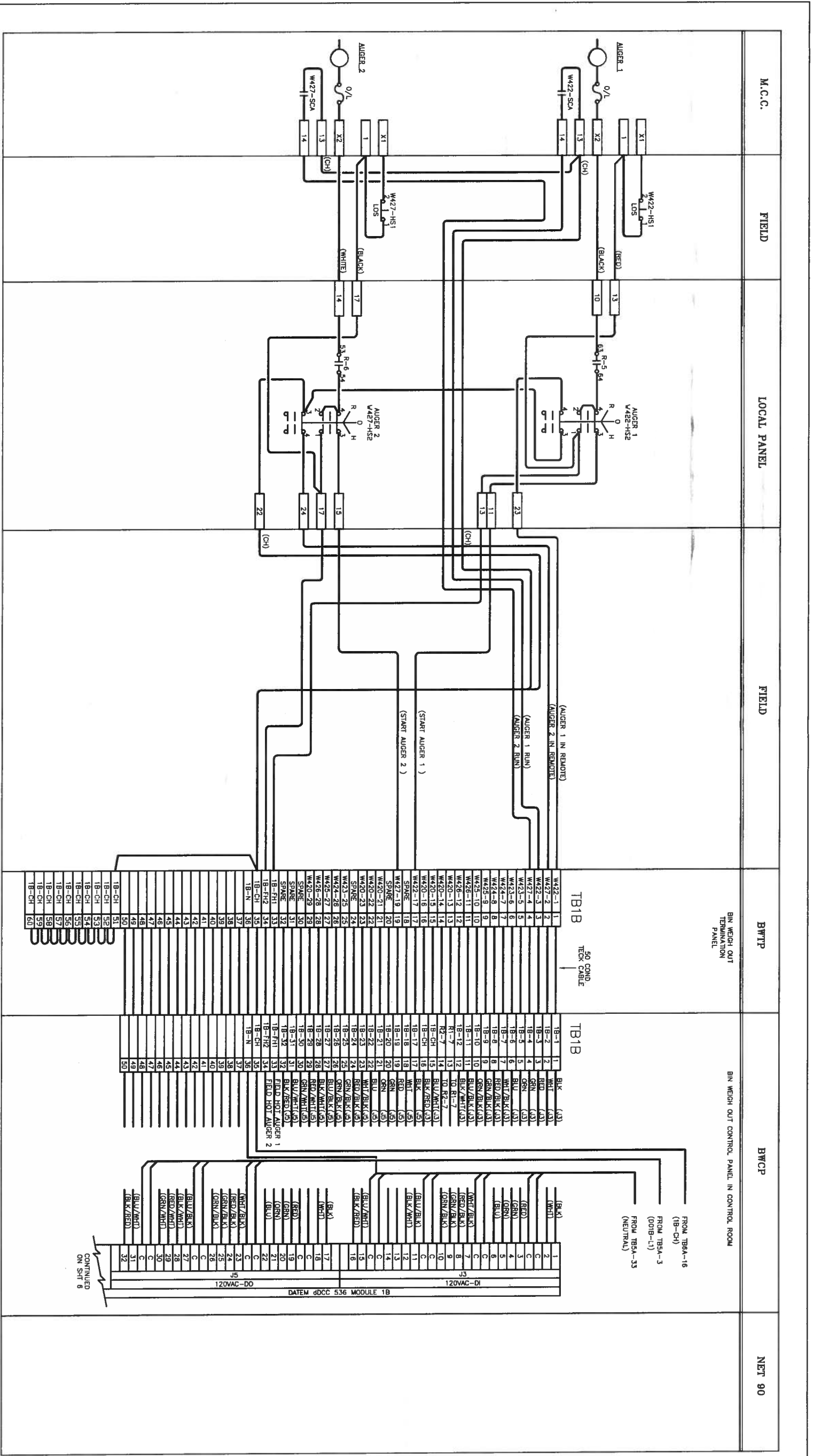
THE CITY OF WINNIPEG  
WORKS AND OPERATIONS DIVISION  
WATERWORKS WASTE AND DISPOSAL DEPARTMENT

NEW P.C.C.  
SLUDGE DEWATERING BUILDING

WEIGHT OUT AND SEPTAGE SYSTEM  
PANEL INTERCONNECTION  
WIRING DIAGRAM #1 WEST - AUGER

CITY DRAWING NUMBER  
SHEET 2 OF 27  
NEP-1884A





1. ALL CONTROL AND POWER WIRING TO BE #14 AWG MINIMUM. WIRE AND COLOR CODED AS FOLLOWS: PHASE GREEN (GN) LINE AND COLOR CODED AS FOLLOWS: PHASE NEUTRAL WHITE (WT) 24 VDC (POS) ORANGE (OR) 24 VDC (RETURN) BROWN (BR) DC CONTROL BLUE (BLU) 90 VDC PURPLE (PL) INTERLOCK YELLOW (YL)
2. ALL WIRES REQUIRE IDENTIFICATION USING PLASTIC ADHESIVE OR SLEEVE TYPE MARKERS.
3. ALL WIRES SHALL CONFORM TO EITHER THE CANADIAN ELECTRICAL CODE OR THE NATIONAL ELECTRICAL CODE, WHICHEVER IS APPLICABLE.



6. TERMINAL/WIRE NUMBERS USED ON THIS DWG. SPARE NUMBERS ALLOCATED FOR THIS DWG.

REV.	DATE	BY	REVISIONS

DESIGNED BY	DATE	APPROVED BY	DATE

DOOR'S SEAL  
 PART DATE: 1986 10 09  
 O:\DRAWINGS\PLANTS\NORTH\NEP-1887

**THE CITY OF WINNIPEG**  
 WORKS AND OPERATIONS DIVISION  
 WATERWORKS WASTE AND DISPOSAL DEPARTMENT

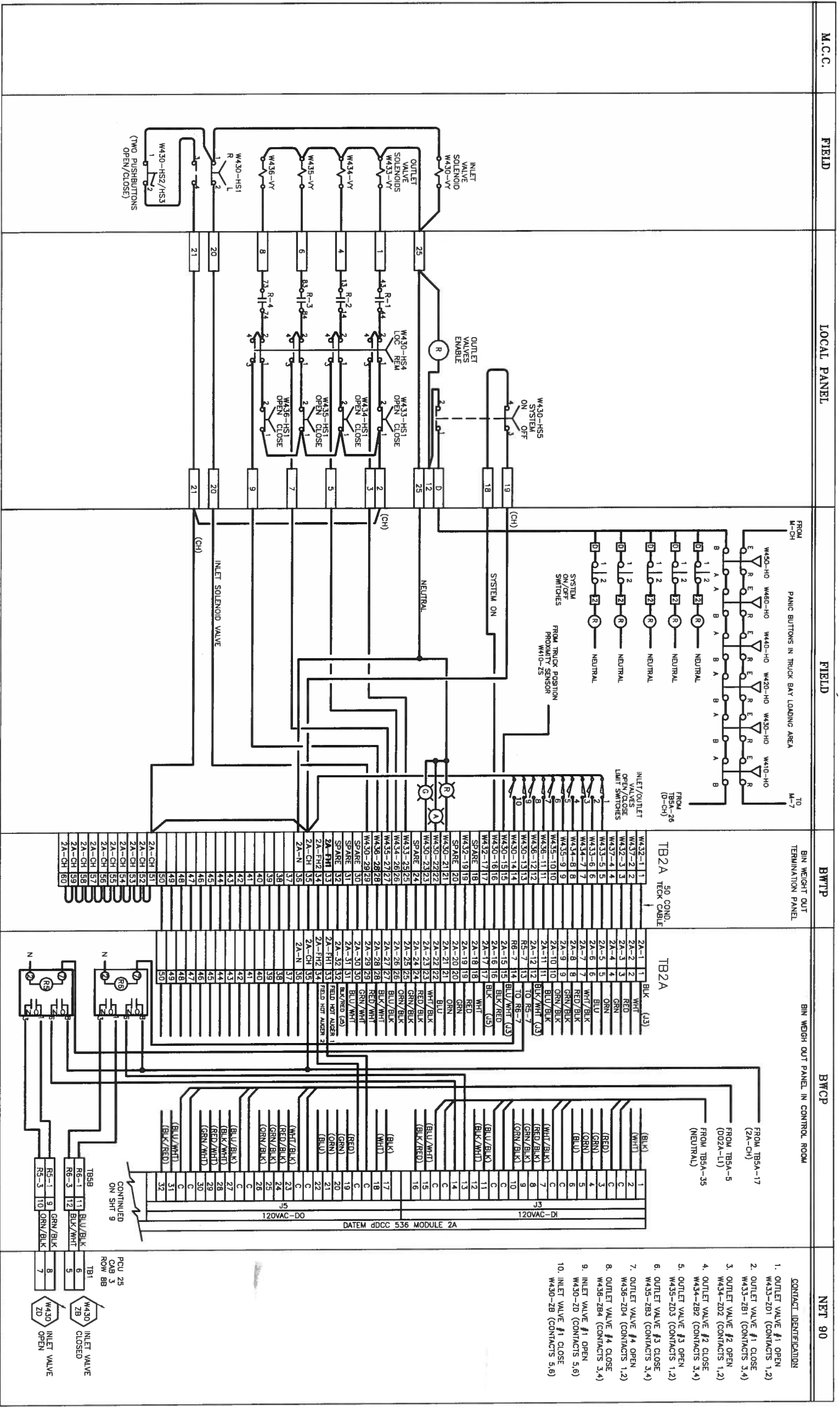
**NEW P.C.C.**  
 SLUDGE Dewatering Building  
 WEIGHT OUT AND SEPTAGE SYSTEM  
 PANEL INTERCONNECTION  
 WIRING DIAGRAM #1 EAST

CITY DRAWING NUMBER  
 SHEET 5 OF 27  
**NEP-1887**

CONTINUED ON SHT 6







1. ALL CONTROL AND POWER WIRING TO BE #14 AWG MINIMUM.  
 AC LINE BLACK (BLK) GROUND GREEN (GRN)  
 NEUTRAL WHITE (WHI) 24 VDC (POS) ORANGE (ORN)  
 DC CONTROL BLUE (BLU) (RED) BROWN (BRN)  
 INTERLOCK YELLOW (YEL) 90 VDC PURPLE (PLT)
2. ALL WIRES REQUIRE IDENTIFICATION USING PLASTIC ADHESIVE OR SLEEVE TYPE MARKERS.
3. ALL WIRES SHALL CONFORM TO EITHER THE CANADIAN ELECTRICAL CODE OR EXISTING LOCAL CODE, WHICHEVER IS APPLICABLE.
4. INDICATES SHIELDED CABLE WITH SHIELD CONNECTED TO GROUND TERMINAL.
5. 1/2" DESIGNATES 120 VAC HOT NEUTRAL. SEE POWER DISTRIBUTION DWG NO. NEP-1884.
6. TERMINAL/WIRE NUMBERS USED ON THIS DWG.

SPARE NUMBERS ALLOCATED FOR THIS DWG:

21	20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1
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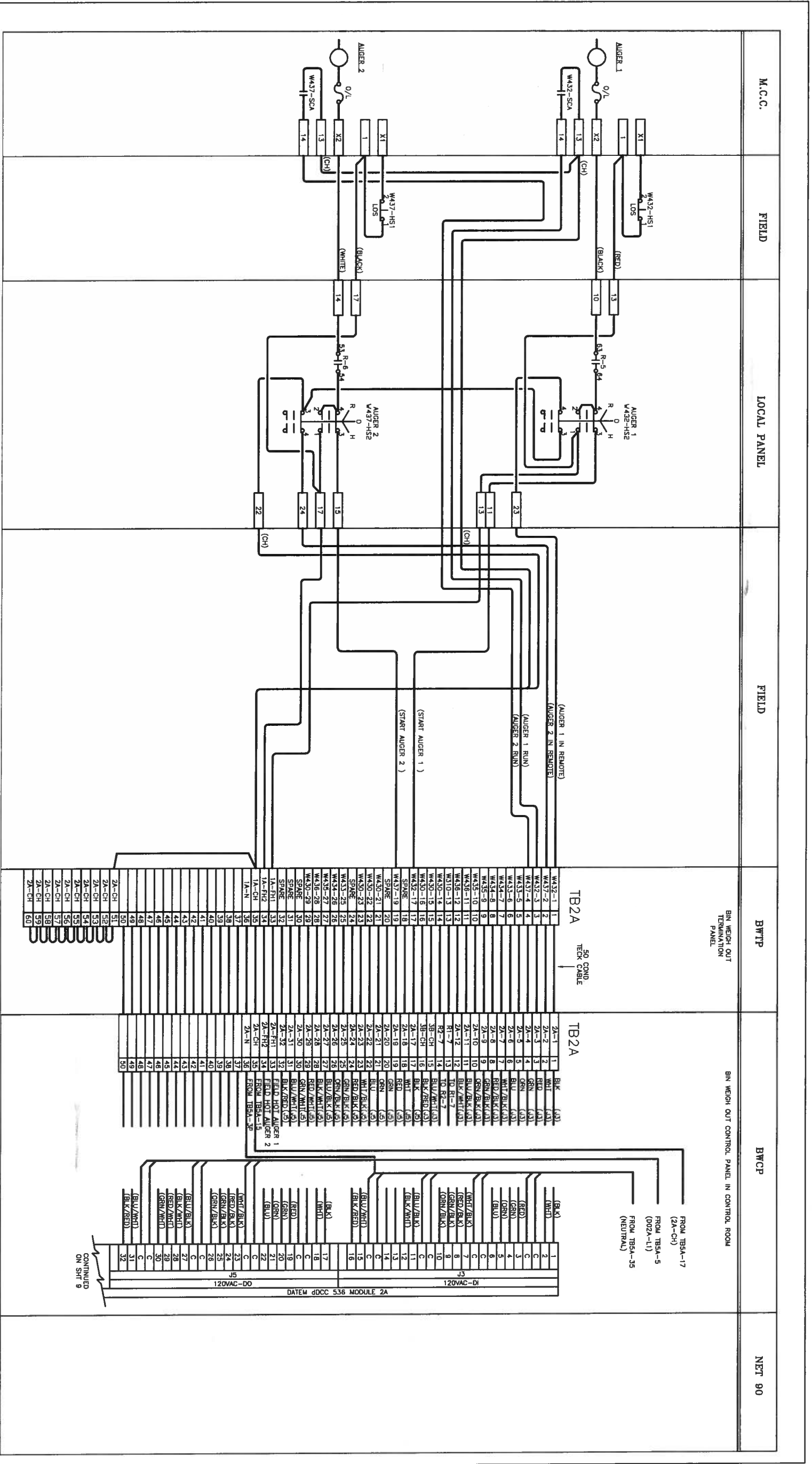
NO.	REVISIONS	DATE	BY

DESIGNED	M.L. / J.A.	CHECKED	M.L. / J.A.
BY		BY	
DATE		DATE	

THE CITY OF WINNIPEG  
 WORKS AND OPERATIONS DIVISION  
 WATERWORKS WASTE AND DISPOSAL DEPARTMENT  
 NE W.P.C.C.  
 SLUDGE DEWATERING BLDG.  
 WEIGH OUT & SEPTAGE SYSTEM PANEL  
 INTERCONNECTION WIRING DIAGRAM  
 #2 WEST

CONSULTANT DRAWING NO. 88-MJ1129-031  
 SHEET 7 OF 24  
 NEP-1889

- CONTACT IDENTIFICATION
1. OUTLET VALVE #1 OPEN W433-Z01 (CONTACTS 1,2)
  2. OUTLET VALVE #1 CLOSE W433-ZB1 (CONTACTS 3,4)
  3. OUTLET VALVE #2 OPEN W434-Z02 (CONTACTS 1,2)
  4. OUTLET VALVE #2 CLOSE W434-ZB2 (CONTACTS 3,4)
  5. OUTLET VALVE #3 OPEN W435-Z03 (CONTACTS 1,2)
  6. OUTLET VALVE #3 CLOSE W435-ZB3 (CONTACTS 3,4)
  7. OUTLET VALVE #4 OPEN W436-Z04 (CONTACTS 1,2)
  8. OUTLET VALVE #4 CLOSE W436-ZB4 (CONTACTS 3,4)
  9. INLET VALVE #1 OPEN W430-Z0 (CONTACTS 5,6)
  10. INLET VALVE #1 CLOSE W430-ZB (CONTACTS 5,6)



1. ALL CONTROL AND POWER WIRING TO BE #14 AWG UNIMULU. USE THE FOLLOWING COLOR CODES: AC CONTROL: WHITE (WH), RED (RD), BLUE (BL), YELLOW (YL), GREEN (GN), BROWN (BR), PURPLE (PL), ORANGE (OR), BLACK (BK), GREY (GR), SILVER (SL), COPPER (CP), ALUMINUM (AL).
2. ALL WIRES SHALL BE IDENTIFIED USING PLASTIC ADHESIVE OR SLEEVE TYPE MARKERS.
3. ALL WIRES SHALL BE IDENTIFIED TO EITHER THE COMMON ELECTRICAL CODE OR BSNING CODE. WHICH EVER IS APPLICABLE.

4. INDICATES SHIELDED CABLE WITH SHIELD CONNECTED TO GROUND TERMINAL.
5. DESIGNATES 120 WAC HT HT SEE POWER DISTRIBUTION DRAWING NEP-1894

6. TERMINAL/WIRE NUMBERS USED ON THIS DWG. SPARE NUMBERS ALLOCATED FOR THIS DWG.

NO.	REVISIONS	DATE	BY

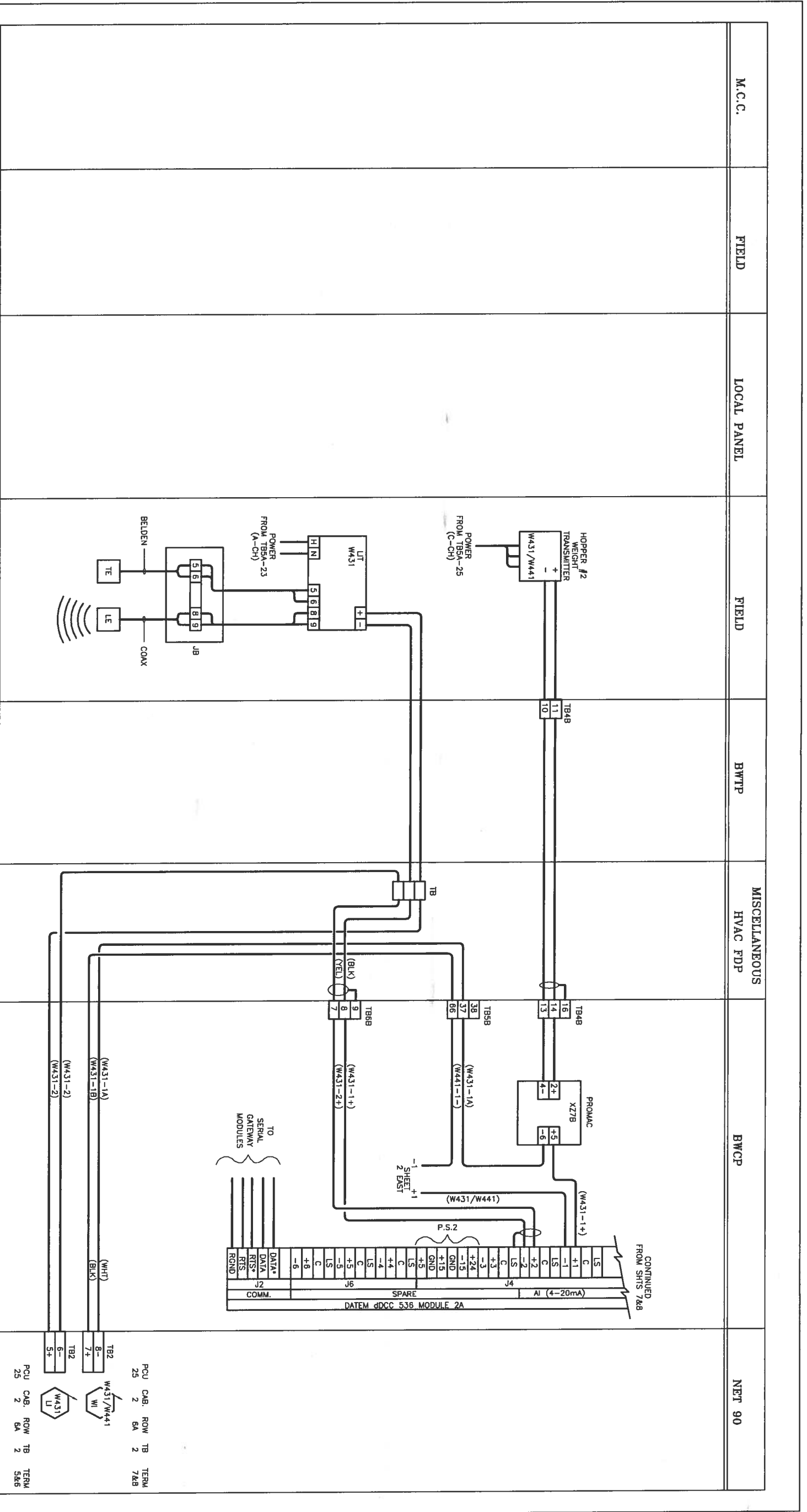
DESIGNED BY: M/J	CHECKED BY: M/J
DATE: JUNE 17, 1992	DATE:
DRAWN BY: MBD	APPROVED BY:
DATE:	DATE:
SCALE:	RELATED FOR CONSTRUCTION:

ENGINEER'S SEAL

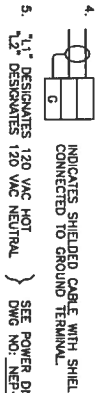
**THE CITY OF WINNIPEG**  
 WORKS AND OPERATIONS DIVISION  
 WATERWORKS WASTE AND DISPOSAL DEPARTMENT  
 NEW P.C.C.  
 SLUDGE DEWATERING BUILDING  
 WEIGHT OUT AND SEPTAGE SYSTEM  
 PANEL INTERCONNECTION  
 WIRING DIAGRAM #2 WEST  
 CONSULTANT DRAWING NO. 89-143129-031  
 SHEET 8 OF 27  
 NEP-1890

TERMINAL	WIRE	TERMINAL	WIRE
WA32-1	1	2A-1	1
WA32-2	2	2A-2	2
WA32-3	3	2A-3	3
WA32-4	4	2A-4	4
WA32-5	5	2A-5	5
WA32-6	6	2A-6	6
WA32-7	7	2A-7	7
WA32-8	8	2A-8	8
WA32-9	9	2A-9	9
WA32-10	10	2A-10	10
WA32-11	11	2A-11	11
WA32-12	12	2A-12	12
WA32-13	13	2A-13	13
WA32-14	14	2A-14	14
WA32-15	15	2A-15	15
WA32-16	16	2A-16	16
WA32-17	17	2A-17	17
WA32-18	18	2A-18	18
WA32-19	19	2A-19	19
WA32-20	20	2A-20	20
WA32-21	21	2A-21	21
WA32-22	22	2A-22	22
WA32-23	23	2A-23	23
WA32-24	24	2A-24	24
WA32-25	25	2A-25	25
WA32-26	26	2A-26	26
WA32-27	27	2A-27	27
WA32-28	28	2A-28	28
WA32-29	29	2A-29	29
WA32-30	30	2A-30	30
WA32-31	31	2A-31	31
WA32-32	32	2A-32	32
WA32-33	33	2A-33	33
WA32-34	34	2A-34	34
WA32-35	35	2A-35	35
WA32-36	36	2A-36	36
WA32-37	37	2A-37	37
WA32-38	38	2A-38	38
WA32-39	39	2A-39	39
WA32-40	40	2A-40	40
WA32-41	41	2A-41	41
WA32-42	42	2A-42	42
WA32-43	43	2A-43	43
WA32-44	44	2A-44	44
WA32-45	45	2A-45	45
WA32-46	46	2A-46	46
WA32-47	47	2A-47	47
WA32-48	48	2A-48	48
WA32-49	49	2A-49	49
WA32-50	50	2A-50	50

FROM TB5A-17 (2A-CH)  
 FROM TB5A-5 (002A-11)  
 FROM TB5A-35 (NEUTRAL)  
 (BLK) 1  
 (WHT) 2  
 (RED) 3  
 (GRN) 4  
 (BLU) 5  
 (GRN) 6  
 (BLU) 7  
 (GRN) 8  
 (BLU) 9  
 (GRN) 10  
 (BLU) 11  
 (GRN) 12  
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 (GRN) 56  
 (BLU) 57  
 (GRN) 58  
 (BLU) 59  
 (GRN) 60



- ALL CONTROL AND POWER WIRING TO BE #14 AWG MINIMUM.
- AC LINE BLACK (BLK)
- NEUTRAL WHITE (WHT)
- DC CONTROL RED (RED)
- DC CONTROL BLUE (BLU)
- INTERLOCK YELLOW (YEL)
- GROUND (GND)
- 24 VDC (PWS)
- 24 VDC (RETURN)
- 90 VDC
- GREEN (GRN)
- ORANGE (ORN)
- BROWN (BRN)
- PURPLE (PUR)



TERMINAL/WIRE NUMBERS USED ON THIS DWG:  
SPARE NUMBERS ALLOCATED FOR THIS DWG:

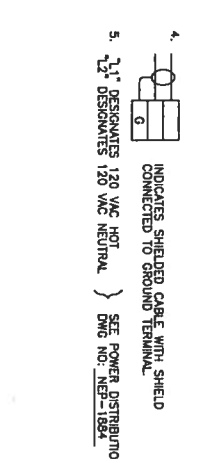
NO.	REVISIONS	DATE	BY	DATE	DESIGNED	CHECKED	DATE	BY	DATE	CONSULTANT DRAWING NO.

THE CITY OF WINNIPEG  
WORKS AND OPERATIONS DIVISION  
WATERWORKS WASTE AND DISPOSAL DEPARTMENT

NEWPCC  
SLUDGE DEWATERING BUILDING  
WEIGH OUT AND SEPTAGE SYSTEM  
PANEL INTERCONNECTION WIRING  
DIAGRAM #2 WEST

CITY DRAWING NUMBER  
SHEET 9 OF 27  
NEP-1891

1. ALL CONTROL AND POWER WIRING TO BE #14 AWG MINIMUM.
2. ALL WIRES REQUIRE IDENTIFICATION USING PLASTIC ADHESIVE OR SLEEVE TYPE MARKERS.
3. ALL WIRES SHALL CONFORM TO EITHER THE CANADIAN ELECTRICAL CODE OR EXISTING LOCAL CODE, WHICHEVER IS APPLICABLE.
4. INDICATES SHIELDED CABLE WITH SHIELD CONNECTED TO GROUND TERMINAL.
5. 1/2" DESIGNATES 120 VAC HOT NEUTRAL. SEE POWER DISTRIBUTION DWG NO. NEP-1894.
6. TERMINAL/WIRE NUMBERS USED ON THIS DWG.
7. SPARE NUMBERS ALLOCATED FOR THIS DWG.



**M.C.C.**

**FIELD**

**LOCAL PANEL**

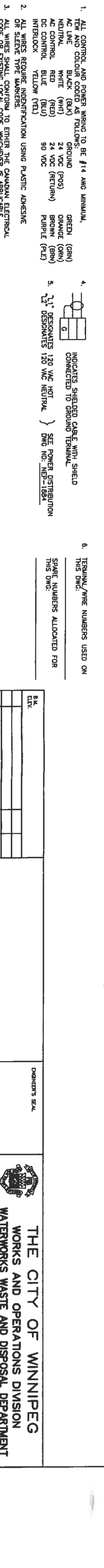
**FIELD**

**BWTP**

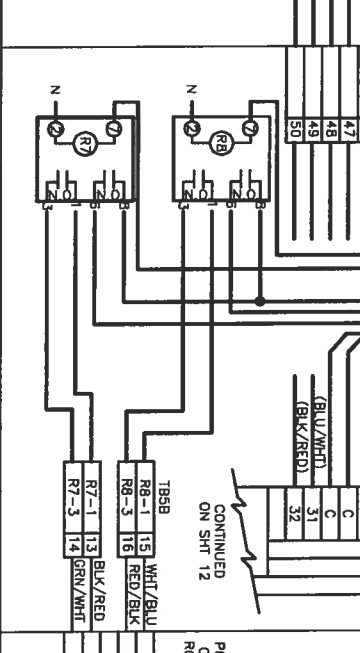
TERMINATION PANEL

**BWCP**

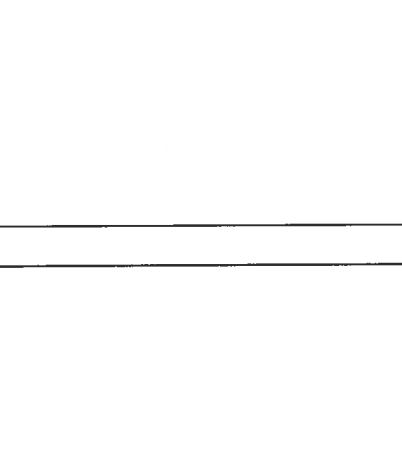
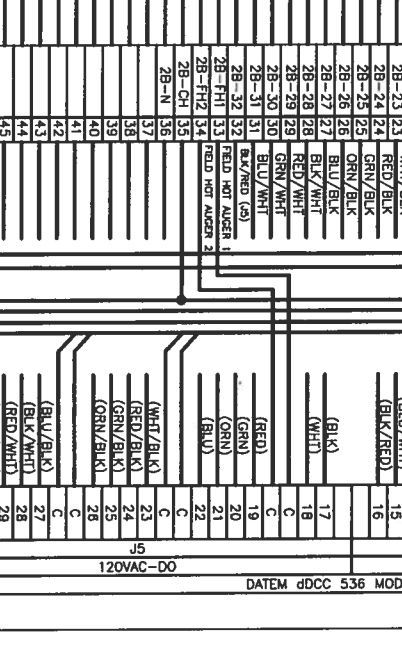
BIN WEIGHT OUT PANEL IN CONTROL ROOM



NO.	REVISIONS	DATE	BY	DATE	VERTICAL	RELIEF FOR CONSTRUCTION
		JUNE 11, 1992				



NO.	REVISIONS	DATE	BY	DATE	VERTICAL	RELIEF FOR CONSTRUCTION
		JUNE 11, 1992				



**M.C.C.**

**FIELD**

**LOCAL PANEL**

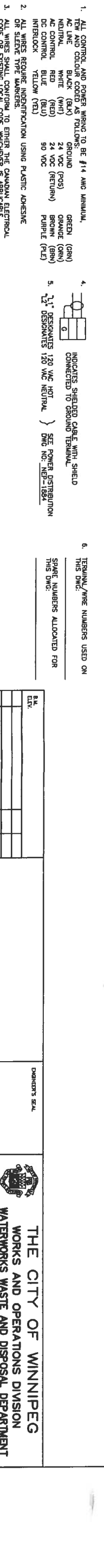
**FIELD**

**BWTP**

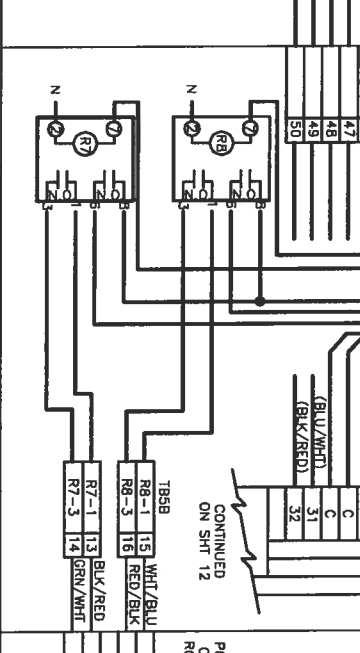
TERMINATION PANEL

**BWCP**

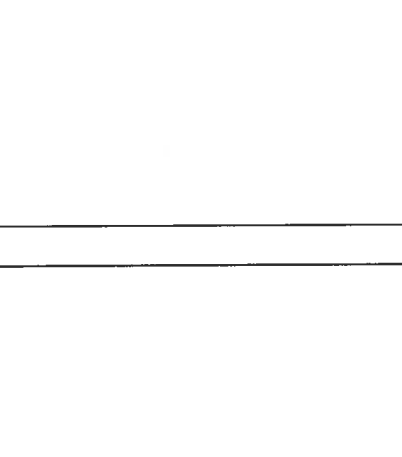
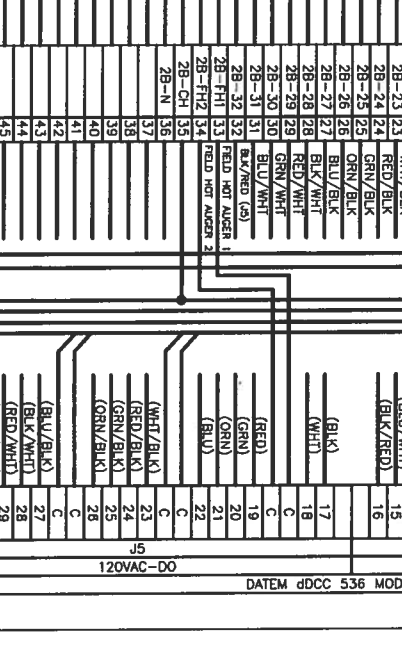
BIN WEIGHT OUT PANEL IN CONTROL ROOM



NO.	REVISIONS	DATE	BY	DATE	VERTICAL	RELIEF FOR CONSTRUCTION
		JUNE 11, 1992				



NO.	REVISIONS	DATE	BY	DATE	VERTICAL	RELIEF FOR CONSTRUCTION
		JUNE 11, 1992				



**THE CITY OF WINNIPEG**  
WORKS AND OPERATIONS DIVISION  
WATERS AND WASTE AND DISPOSAL DEPARTMENT  
NEW P.C.C. SLUDGE DEWATERING BLDG.  
WEIGH OUT & SEPTAGE SYSTEM PANEL  
INTERCONNECTION WIRING DIAGRAM #2 EAST  
NEP-1892

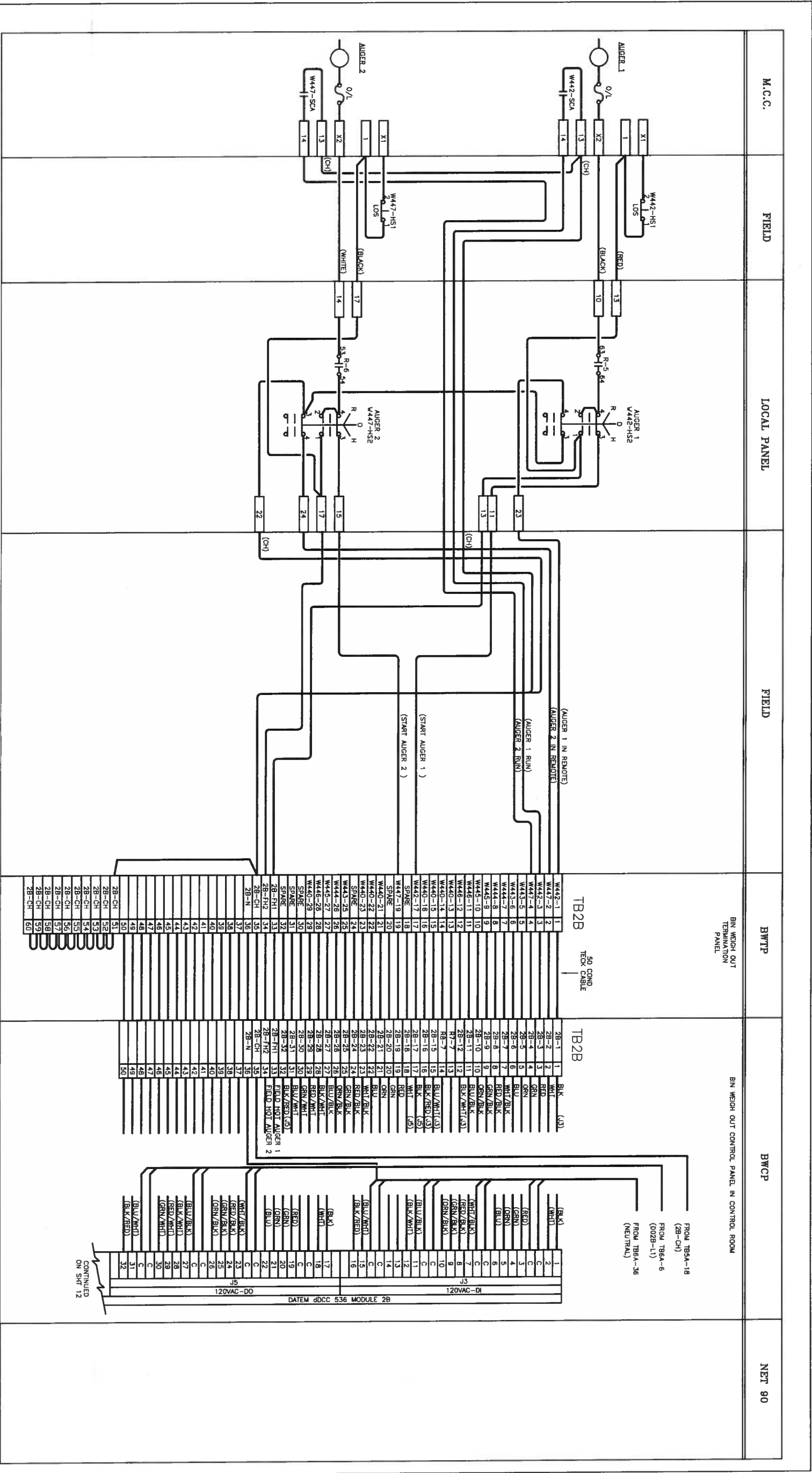
CONSULTANT DRAWING NO.  
B9-M31129-031  
SHEET 10 OF 27

DESIGNED M.L. / J.A.  
DRAWN M.B.D.  
BY DATE

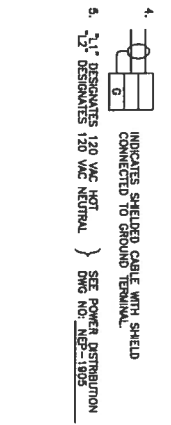
CHECKED M.L. / J.A.  
APPROVED BY DATE

RELIEF FOR CONSTRUCTION DATE

DESIGNED DATE: 1996 TO 09  
O:\DRAWINGS\PLANTS\  
NORTH\NEP-1992



1. ALL CONTROL AND POWER WIRING TO BE #14 AWG UNBRAID.
2. ALL WIRING SHALL CONFORM TO EITHER THE CANADIAN ELECTRICAL CODE OR EXISTING LOCAL CODE, WHICHEVER IS APPLICABLE.
3. ALL WIRING REQUIRE IDENTIFICATION USING PLASTIC ADHESIVE OR SLITTY TYPE LABELS.
4. INDICATES SHIELDED CABLE WITH SHIELD CONNECTED TO GROUND TERMINAL.
5. DESIGNATES 120 VAC NEUTRAL. SEE POWER DISTRIBUTION DWG. NO. NEP-1893.
6. TERMINAL/WIRE NUMBERS USED ON THIS DWG. SPARE NUMBERS ALLOCATED FOR THIS DWG.



NO.	REVISIONS	DATE	BY	DATE	APPROVED FOR CONSTRUCTION

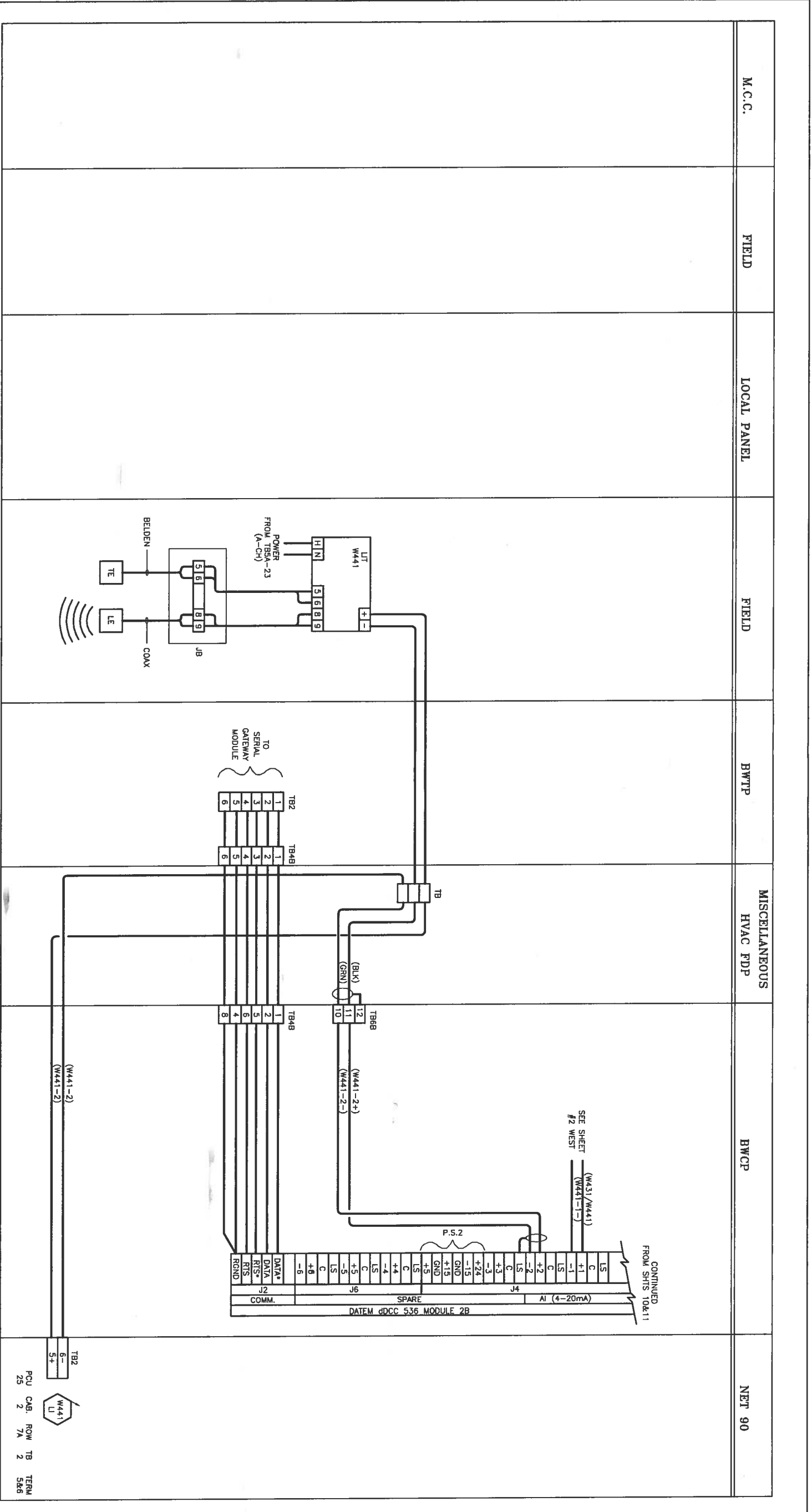
NO.	REVISIONS	DATE	BY	DATE	APPROVED FOR CONSTRUCTION

NO.	REVISIONS	DATE	BY	DATE	APPROVED FOR CONSTRUCTION

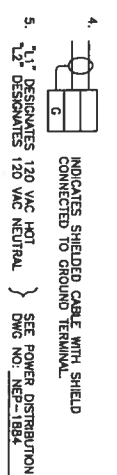
CONTINUED ON SHEET 12

**THE CITY OF WINNIPEG**  
**WORKS AND OPERATIONS DIVISION**  
**WATERWORKS WASTE AND DISPOSAL DEPARTMENT**  
**NEW P.C.C.**  
**SLUDGE DEWATERING BUILDING**  
**WEIGHT OUT AND SEPTAGE SYSTEM**  
**PANEL INTERCONNECTION**  
**WIRING DIAGRAM #2 EAST**

CONSULTANT DRAWING NO. 89-M13129-031  
 SHEET 11 OF 27  
**NEP-1893**

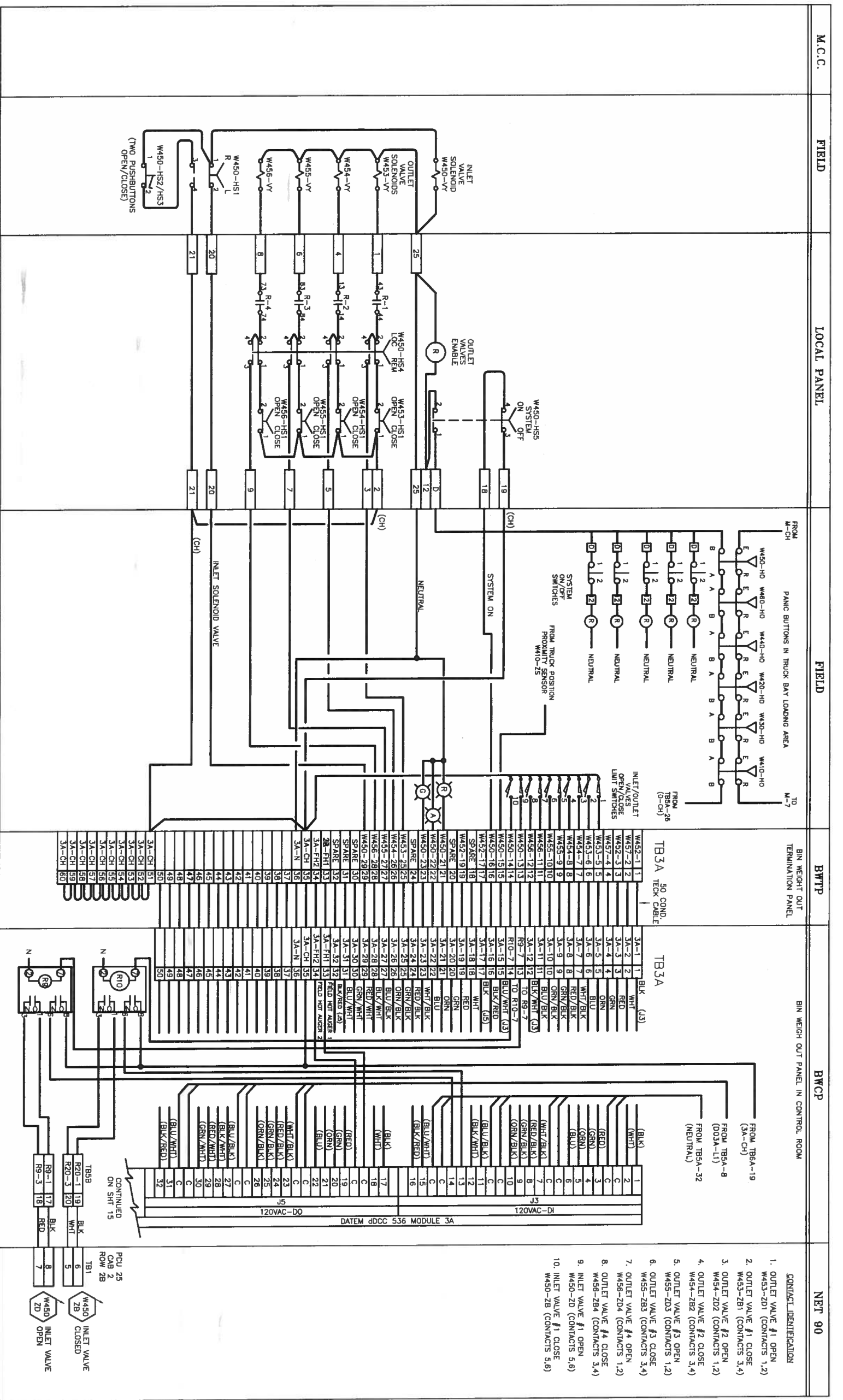


1. ALL CONTROL AND POWER WIRING TO BE #14 AWG MINIMUM. ALL WIRE SHALL BE FOLLOWS FOLLOWING:
  - AC LINE: BLACK (BLK)
  - NEUTRAL: WHITE (WHT)
  - AC CONTROL: RED (RED)
  - DC CONTROL: BLUE (BLU)
  - INTERLOCK: YELLOW (YEL)
  - GREEN (GRN)
  - ORANGE (ORN)
  - BROWN (BRN)
  - PURPLE (PLP)
2. ALL WIRES REQUIRE IDENTIFICATION USING PLASTIC ADHESIVE
3. ALL WIRES SHALL CONFORM TO EITHER THE CANADIAN ELECTRICAL CODE OR EXISTING LOCAL CODE, WHICHEVER IS APPLICABLE.



TERMINAL WIRE NUMBERS USED ON THIS DWG:  
SPARE NUMBERS ALLOCATED FOR THIS DWG:

DESIGNED BY M.J. & J.A.	CHECKED BY M.J. & J.A.	OWNER'S SEAL	<b>THE CITY OF WINNIPEG</b> WORKS AND OPERATIONS DIVISION WATERWORKS WASTE AND DISPOSAL DEPARTMENT <b>NEWPCC</b> SLUDGE DEWATERING BUILDING WEIGH OUT AND SEPTAGE SYSTEM PANEL INTERCONNECTION WIRING DIAGRAM #2 EAST
DATE: JUNE 18, 1992	DATE:	RELASED FOR CONSTRUCTION	
DRWN BY M.B.D.	APPROVED BY	DATE:	SHEET 12 OF 27 <b>NEP-1894</b>
DATE:	DATE:	DATE:	



- ALL CONTROL AND POWER WIRING TO BE #14 AWG MINIMUM.  
 THE AWG SIZE SHALL BE AS FOLLOWS:  
 AC LINE BLACK (BLK) GREEN (GRN)  
 NEUTRAL WHITE (WHT) 24 VDC (POS) ORANGE (ORN)  
 DC CONTROL RED (RED) 24 VDC (RETURN) BROWN (BRN)  
 INTERLOCK BLUE (BLU) 90 VDC PURPLE (PL) YELLOW (YEL)
- ALL WIRES REQUIRE IDENTIFICATION USING PLASTIC ADHESIVE OR SLEEVE TYPE MARKERS.
- ALL WIRES SHALL CONFORM TO EITHER THE CANADIAN ELECTRICAL CODE OR EXISTING LOCAL CODE, WHICHEVER IS APPLICABLE.
- INDICATES SHIELDED CABLE WITH SHIELD CONNECTED TO GROUND TERMINAL
- $\frac{1}{2}$  DESIGNATES 120 VAC HOT SEE POWER DISTRIBUTION DWG NO. NEP-1894
- TERMINAL/WIRE NUMBERS USED ON THIS DWG
- SPARE NUMBERS ALLOCATED FOR THIS DWG

NO.	REVISIONS	DATE	BY	DATE	BY	NO.	REVISIONS	DATE	BY

DESIGNED BY	M.L. / J.A.	APPROVED BY	M.L. / J.A.
DRAWN BY	M.B.D.	RELEASED FOR CONSTRUCTION BY	
CHECKED BY	N.T.S.	DATE	

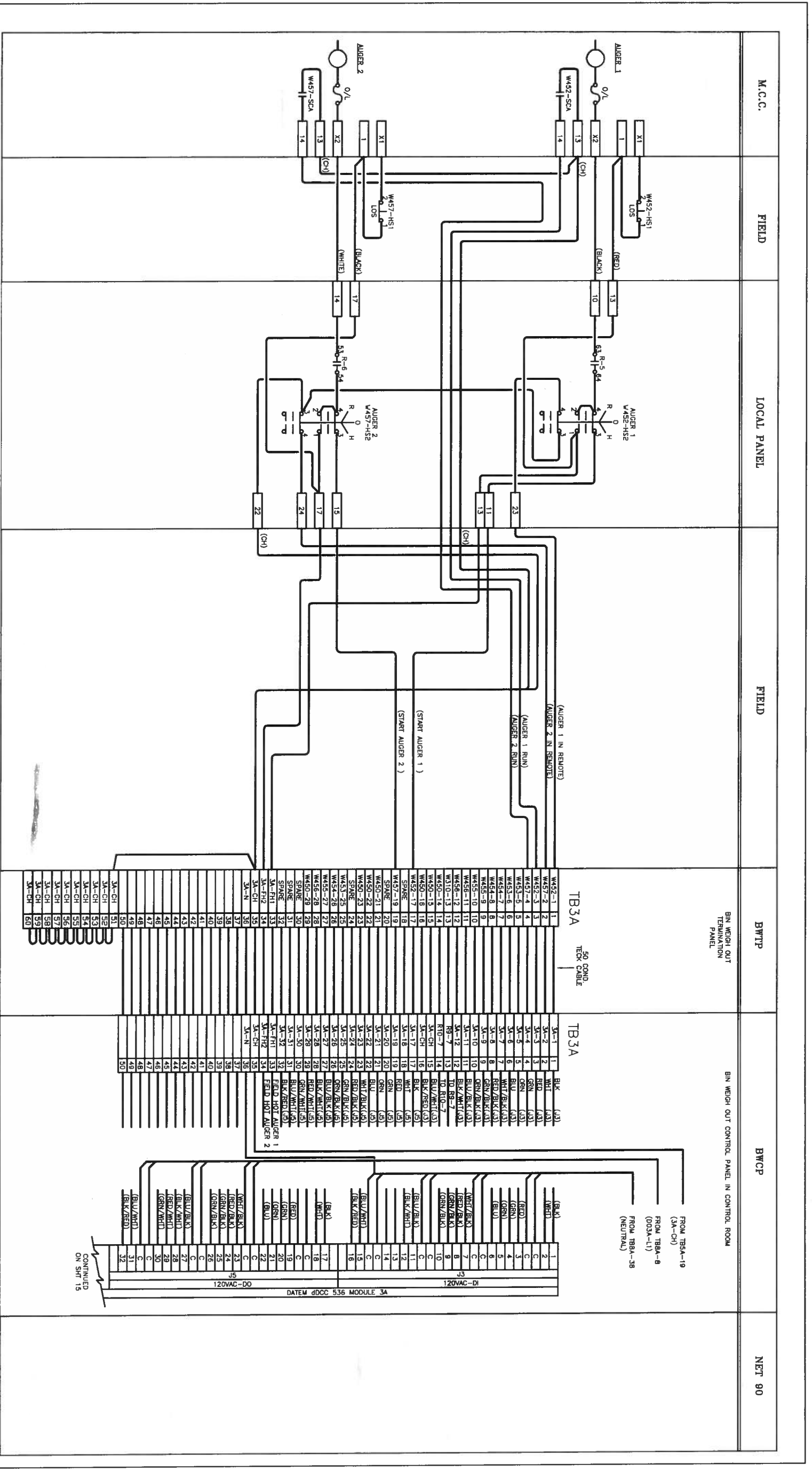
DATE: 1996.10.09  
 O. DRAMING'S PLANTS  
 NORTH, NEP-1895

**THE CITY OF WINNIPEG**  
**WORKS AND OPERATIONS DIVISION**  
**WATERWORKS WASTE AND DISPOSAL DEPARTMENT**

**NEP-1895**

SLUDGE OUT & SEPTAGE SYSTEM PANEL  
 INTERCONNECTION WIRING DIAGRAM  
 #3 WEST





**1. ALL CONTROL AND POWER WIRING TO BE #14 AWG MINIMUM.**  
**17 AWG COLOUR CODED AS FOLLOWS:**  
 GREEN (GRN) COMMON  
 WHITE (WHI) 24 VDC (POS)  
 RED (RED) 24 VDC (RETURN)  
 BLUE (BLU) 80 VDC  
 YELLOW (YEL) INTERLOCK  
 PURPLE (PUR) OR SLAVE TYPE MARKERS

**2. ALL WIRES SHALL CONFORM TO EITHER THE CANADIAN ELECTRICAL CODE OR THE NATIONAL ELECTRICAL CODE, WHICHEVER IS APPLICABLE.**

**3. ALL WIRES REQUIRE IDENTIFICATION USING PLASTIC ADHESIVE OR SLAVE TYPE MARKERS.**

**4. INDICATES SHIELDED CABLE WITH SHIELD CONNECTED TO GROUND TERMINAL.**

**5. SEE POWER DISTRIBUTION DRAWING NEP-1894 FOR 120 VAC NEUTRAL.**

**6. TERMINAL/WIRE NUMBERS USED ON THIS DWG: SPARE NUMBERS ALLOCATED FOR THIS DWG:**

**7. TERMINAL/WIRE NUMBERS USED ON THIS DWG: SPARE NUMBERS ALLOCATED FOR THIS DWG:**

**8. DATE: JUNE 17, 1992**

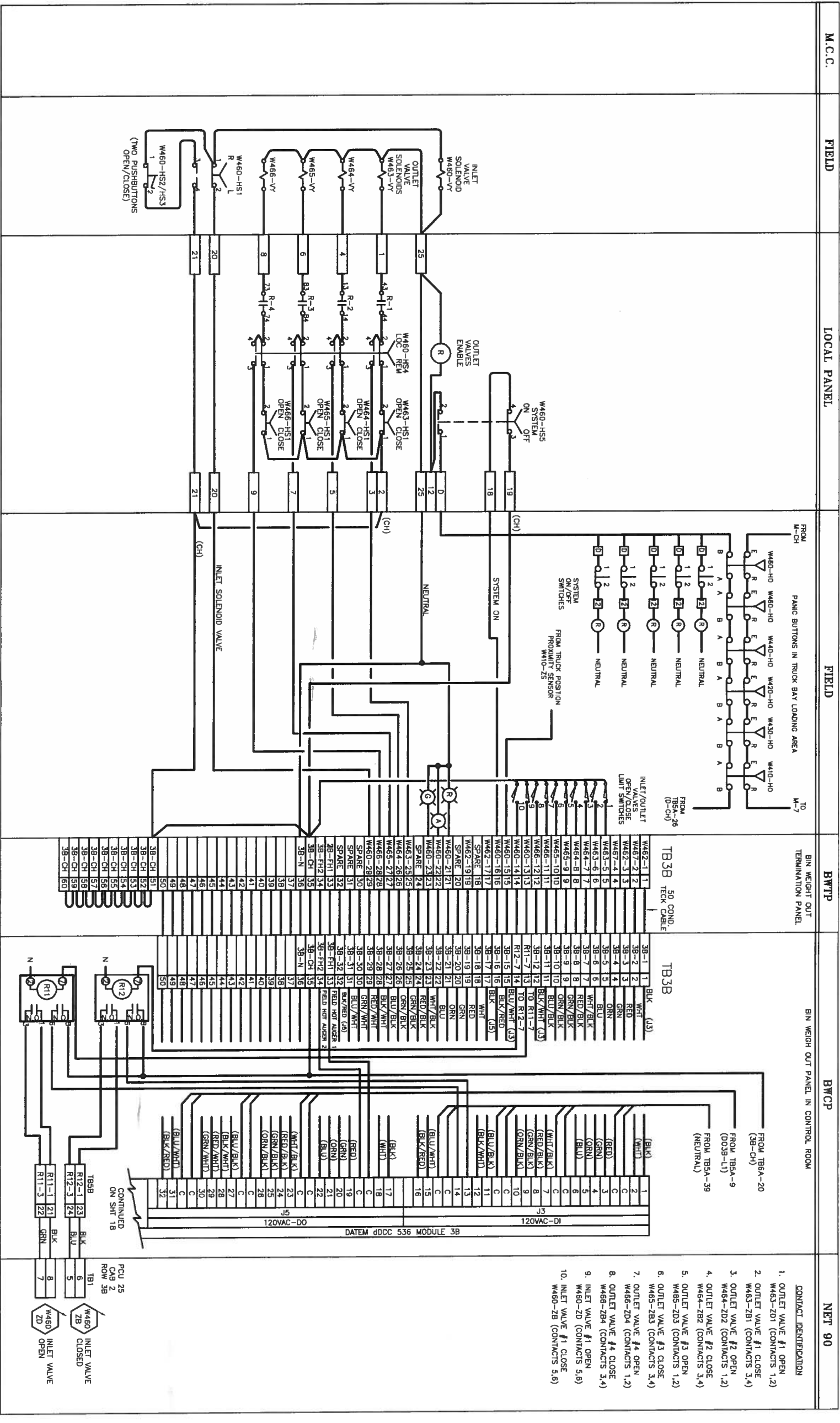
**9. DATE: 1996 10 09**  
 0:\DRAWINGS\PLANTS\NORTH\NEP-1896

**THE CITY OF WINNIPEG  
 WORKS AND OPERATIONS DIVISION  
 WATERWORKS WASTE AND DISPOSAL DEPARTMENT**

**SLUDGE DEWATERING BUILDING  
 WEIGHT OUT AND SEPTAGE SYSTEM  
 PANEL INTERCONNECTION  
 WIRING DIAGRAM #3 WEST**

**CONSULTANT DRAWING NO. 89-MJ3129-031  
 SHEET 14 OF 27  
 NEP-1896**





- ALL CONTROL AND POWER WIRING TO BE #14 AWG MINIMUM.
- AC LINE COLORED BLACK (BLK)
- NEUTRAL COLORED WHITE (WHT)
- DC CONTROL COLORED BLUE (BLU)
- INTERLOCK COLORED YELLOW (YEL)
- OR STEVE TYPE WIREGAGES.
- ALL WIRES REQUIRE IDENTIFICATION USING PLASTIC ADHESIVE CODE OR EXISTING LOCAL CODE, WHICHEVER IS APPLICABLE.
- ALL CONTROL AND POWER WIRING TO BE #14 AWG MINIMUM.
- AC LINE COLORED BLACK (BLK)
- NEUTRAL COLORED WHITE (WHT)
- DC CONTROL COLORED BLUE (BLU)
- INTERLOCK COLORED YELLOW (YEL)
- OR STEVE TYPE WIREGAGES.
- ALL WIRES REQUIRE IDENTIFICATION USING PLASTIC ADHESIVE CODE OR EXISTING LOCAL CODE, WHICHEVER IS APPLICABLE.
- INDICATES SHIELDED CABLE WITH SHIELD CONNECTED TO GROUND TERMINAL
- DESIGNATES 120 VAC HOT
- DESIGNATES 120 VAC NEUTRAL
- TERMINAL/WIRE NUMBERS USED ON THIS DWG.
- SPARE NUMBERS ALLOCATED FOR THIS DWG.

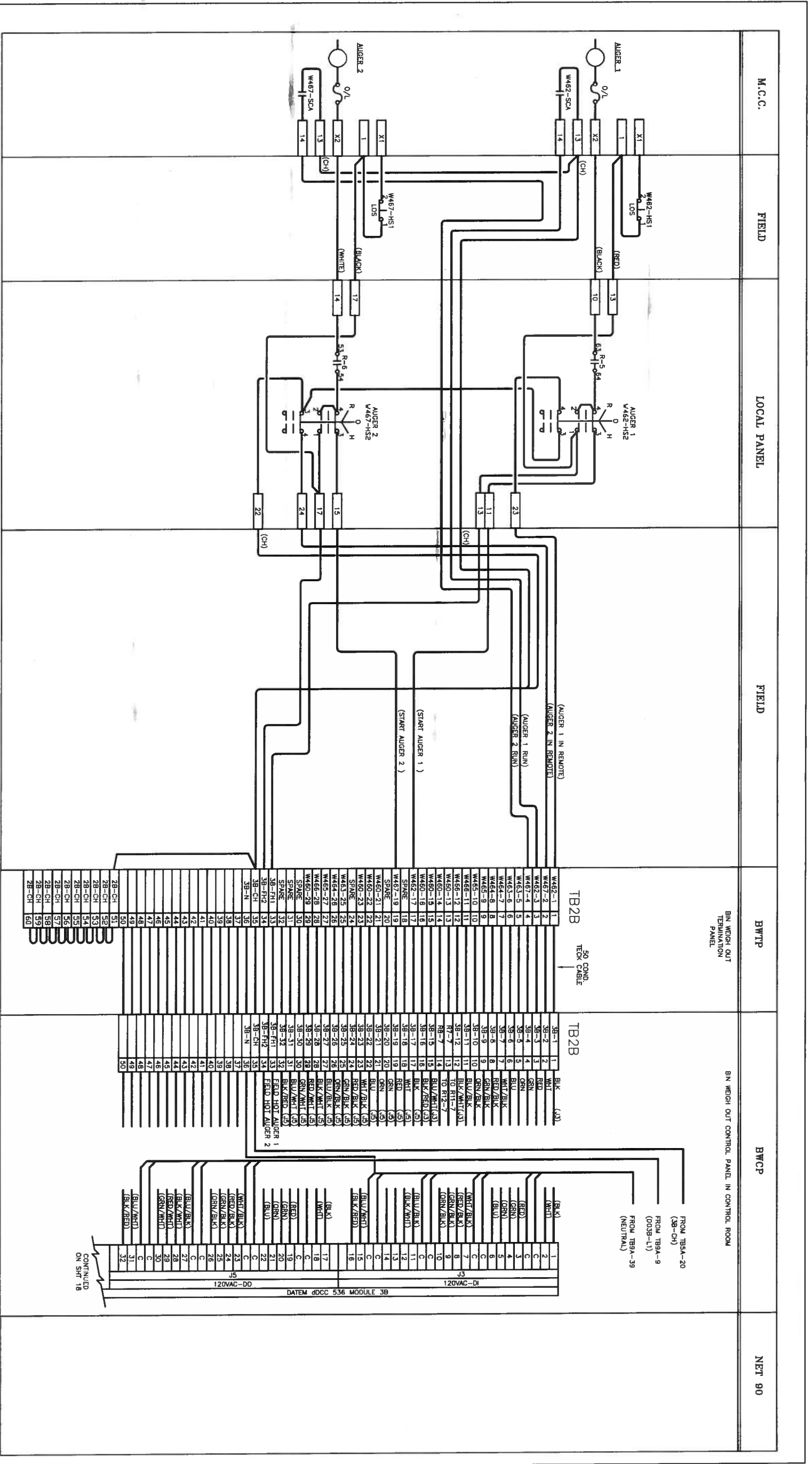
NO.	REVISIONS	DATE	BY	DATE	BY	DATE	BY

DESIGNED BY	M.L. / J.A.	CHECKED BY	M.L. / J.A.
DRAWN BY	M.B.D.	APPROVED BY	
SCALE	NTS	RELEASED FOR CONSTRUCTION	
DATE	JUNE 11, 1992	DATE	

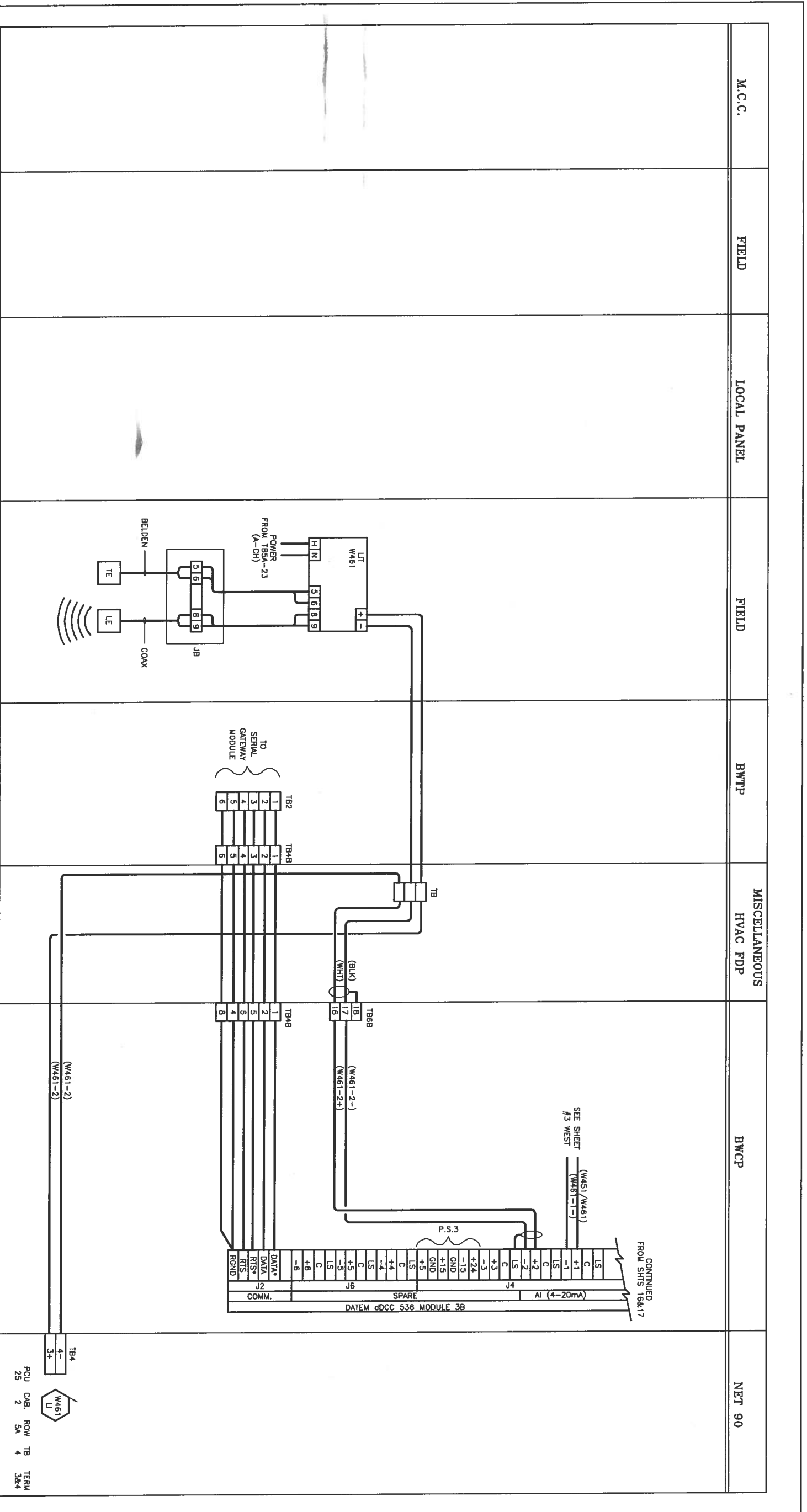
**THE CITY OF WINNIPEG**  
 WORKS AND OPERATIONS DIVISION  
 WATERWORKS WASTE AND DISPOSAL DEPARTMENT  
 NEW P.C.C. SLUDGE DEWATERING BLDG.  
 WEIGH OUT & SEPTAGE SYSTEM PANEL INTERCONNECTION WIRING DIAGRAM #3 EAST  
 SHEET 16 OF 27  
 CONSULTANT DRAWING NO. 89-MJ1129-031  
 NEP-1898



1. ALL CONTROL AND POWER WIRING TO BE #14 AWG MINIMUM. NEW AND OLD WIRING TO BE IDENTIFIED AS FOLLOWS:
 

GREEN	(GRN)
RED	(RED)
BLACK	(BLK)
WHITE	(WHT)
24 VDC (POS)	ORANGE (ORN)
24 VDC (NEG)	BROWN (BRN)
90 VDC	PURPLE (PLP)
YELLOW	(YEL)
2. ALL WIRES REQUIRE IDENTIFICATION USING PLASTIC ADHESIVE OR SLICE TYPE LABELS.
3. ALL WIRES SHALL CONFORM TO EITHER THE CANADIAN ELECTRICAL CODE OR THE NATIONAL ELECTRICAL CODE, WHICHEVER IS APPLICABLE.
4. INDICATES SHIELDED CABLE WITH SHIELD CONNECTED TO GROUND TERMINAL.
5. DESIGNATES 120 VAC HOT WIRE.
6. DESIGNATES 120 VAC NEUTRAL WIRE.
7. TERMINAL/WIRE NUMBERS USED ON THIS DWG.
8. SPARE NUMBERS ALLOCATED FOR THIS DWG.

REV	BY	DATE	CHECKED	DATE	APPROVED	DATE	PROJECT
DESIGNED: M.J./J.A. DRAWN: M.B.D. HORIZ. SCALE: _____ VERTICAL: _____				CHECKED: M.J./J.A. BY: _____		PROJECT: _____ DATE: _____	
ENGINEER'S SEAL  <b>THE CITY OF WINNIPEG</b> WORKS AND OPERATIONS DIVISION WATERWORKS WASTE AND DISPOSAL DEPARTMENT SLUDGE Dewatering BUILDING WEIGHT OUT AND SEPTAGE SYSTEM PANEL INTERCONNECTION WIRING DIAGRAM #3 EAST							
SHEET 17 OF 27 <b>NEP-1899</b>							



1. ALL CONTROL AND POWER WIRING TO BE #14 AWG MINIMUM, PER AND COLOUR CODED AS FOLLOWS:  
 AC LINE: BLACK (BLK) GROUND: GREEN (GRN)  
 NEUTRAL: WHITE (WHT) 24 VDC (POS): BROWN (BRN)  
 AC CONTROL: RED (RED) 24 VDC (RETURN): PURPLE (PLP)  
 DC CONTROL: BLUE (BLU) 50 VDC: YELLOW (YEL)  
 INTERLOCK: YELLOW (YEL)

2. ALL WIRES REQUIRE IDENTIFICATION USING PLASTIC ADHESIVE  
 3. ALL WIRES SHALL CONFORM TO EITHER THE CANADIAN ELECTRICAL CODE OR EXISTING LOCAL CODE, WHICHEVER IS APPLICABLE.

4. INDICATES SHIELDED CABLE WITH SHIELD CONNECTED TO GROUND TERMINAL.  
 5. DESIGNATES 1/2 INCH VAC NOT SEE POWER DISTRIBUTION DWG NO. 189.  
 6. TERMINAL/WIRE NUMBERS USED ON THIS DWG: SPARE NUMBERS ALLOCATED FOR THIS DWG:

NO.	REVISIONS	DATE	BY

DESIGNED: M.J. & J.A.	CHECKED: M.J. & J.A.	DRAWN: M.B.D.	APPROVED:
DRAWN: M.B.D.	APPROVED:		
DATE: JUNE 18, 1992	DATE:	REL. SCALE: NTS	REL. SCALE:
PART DATE: 1996 10 09		O:\DRAWINGS\PLANTS\NORTH\NEP-1900	

**THE CITY OF WINNIPEG**  
 WORKS AND OPERATIONS DIVISION  
 WATERWORKS WASTE AND DISPOSAL DEPARTMENT

**NEWPCC**  
 SLUDGE DEWATERING BUILDING  
 WEIGH OUT AND SEPTAGE SYSTEM  
 PANEL INTERCONNECTION WIRING  
 DIAGRAM #5 EAST

NET 90

SHEET 18 OF 27

NEP-1900

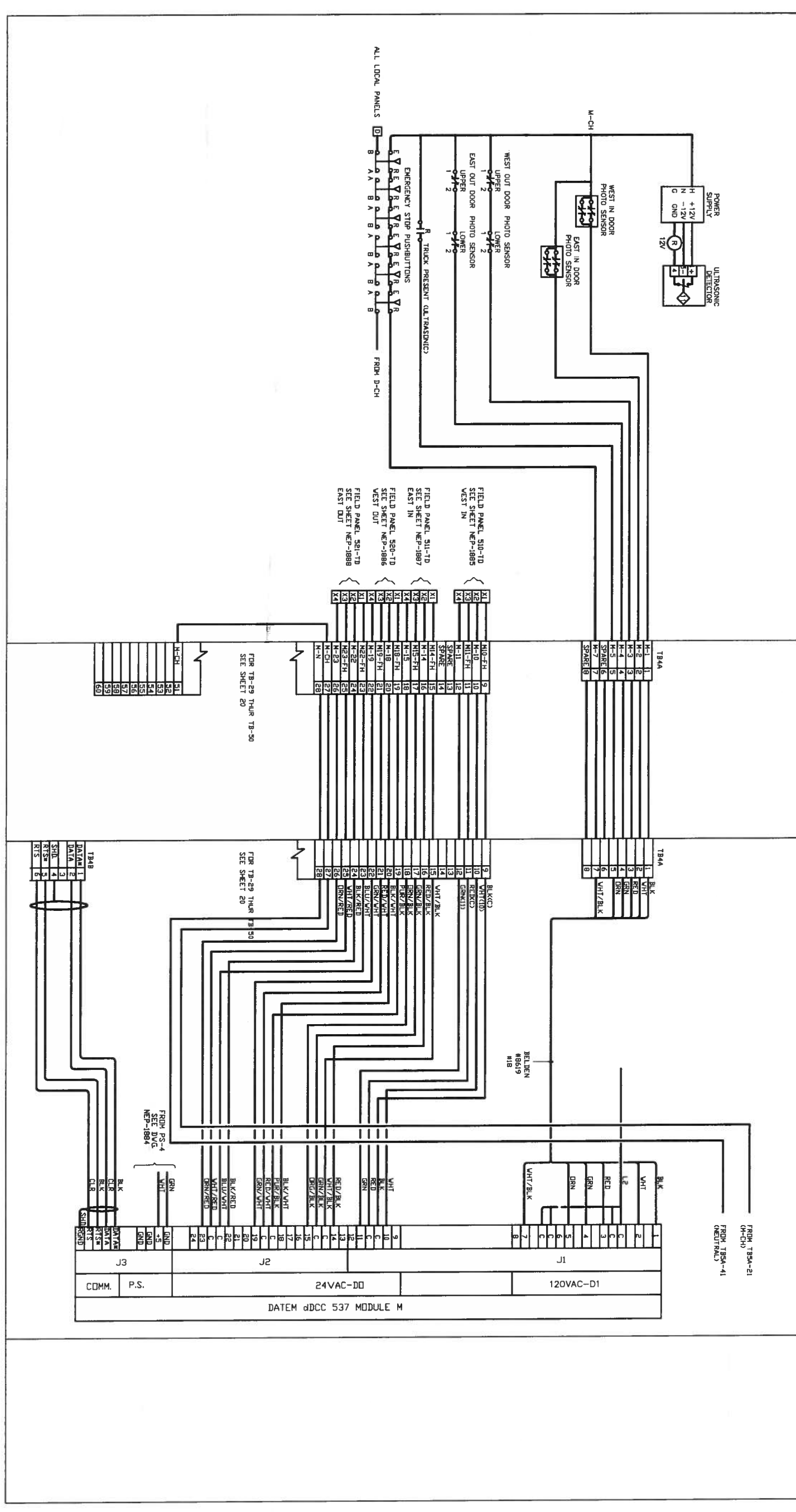
FIELD

BWTP

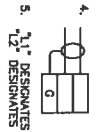
BWCP

NET 90

BIN WEIGH OUT PANEL IN CONTROL ROOM



1. ALL CONTROL AND POWER WIRING TO BE #14 AWG MINIMUM.  
 AC LINE SOLID COLOR  
 NEUTRAL WHITE (WHT)  
 DC CONTROL BLUE (BLU)  
 INTERLOCK YELLOW (YEL)
2. ALL WIRES REQUIRE IDENTIFICATION USING PLASTIC ADHESIVE OR SLEEVE TYPE MARKERS.
3. ALL WIRES SHALL CONFORM TO EITHER THE CANADIAN ELECTRICAL CODE OR EXISTING LOCAL CODE, WHICHEVER IS APPLICABLE.
4. INDICATES SHIELDED CABLE WITH SHIELD CONNECTED TO GROUND TERMINAL.
5. DESIGNATES 120 VAC HOT NEUTRAL } SEE POWER DISTRIBUTION DWG NO. NEP-1884
6. TERMINAL WIRE NUMBERS USED ON THIS DWG. SPARE NUMBERS ALLOCATED FOR THIS DWG.



NO.	REVISIONS	DATE	BY	DATE	BY

DESIGNED BY	MJ & JA	CHECKED BY	MJ & JA
DRAWN BY	MJD	APPROVED BY	
DATE	JULY 29, 1992	DATE	

ENGINEER'S SEAL

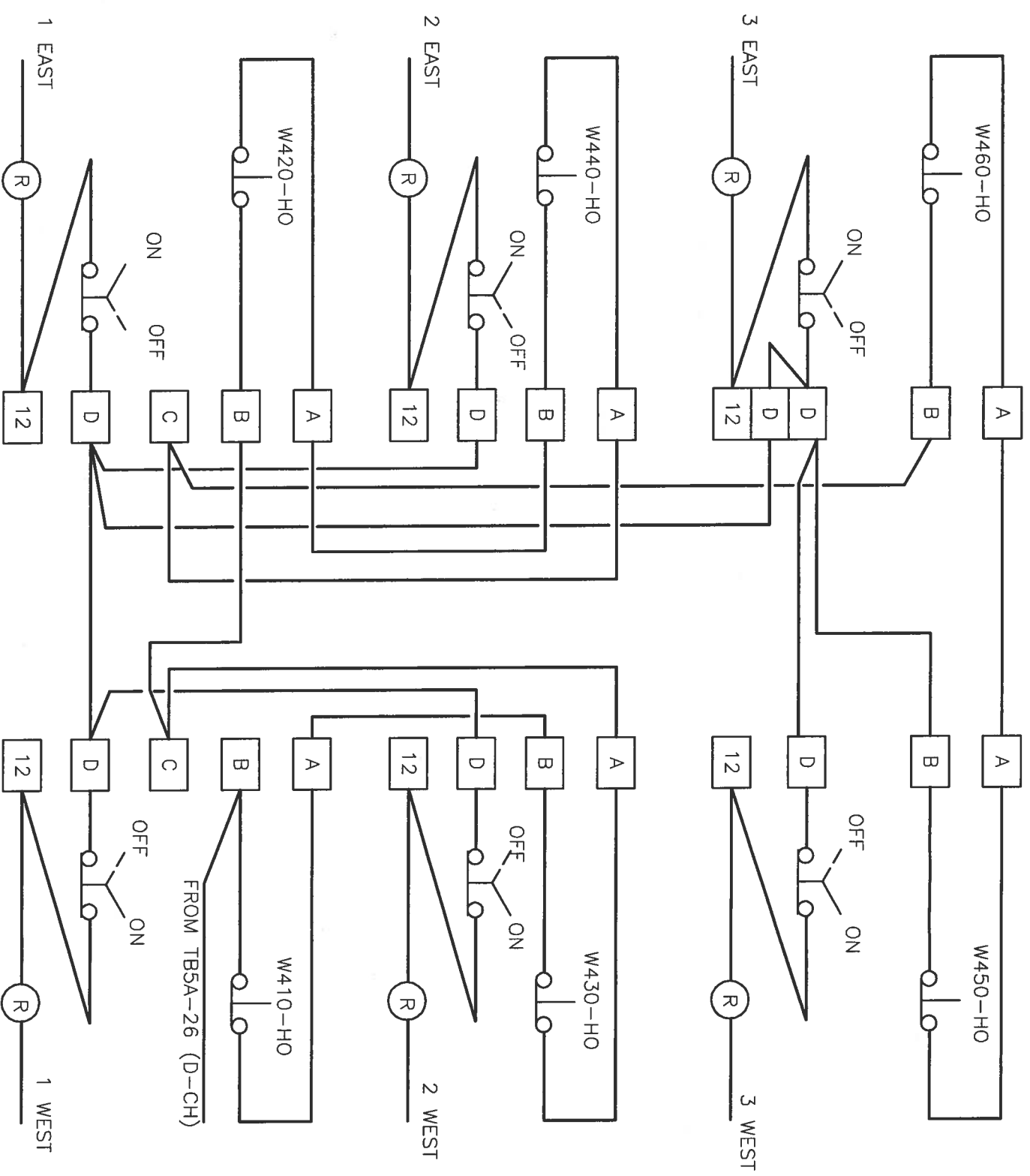
DATE: 1996 10 09  
 O:\DRAWINGS\PLANTS\NORTH\NEP-1901

**THE CITY OF WINNIPEG**  
 WORKS AND OPERATIONS DIVISION  
 WATERWORKS WASTE AND DISPOSAL DEPARTMENT

**NEWPCC**  
 SLUDGE DEWATERING BUILDING  
 WEIGH OUT AND SEPTAGE SYSTEM  
 PANEL INTERCONNECTION WIRING  
 DIAGRAM - MISCELLANEOUS

CITY DRAWING NUMBER  
 SHEET 19 OF 27  
 NEP-1901

EMERGENCY STOP BUTTON - TRUCK LOADING

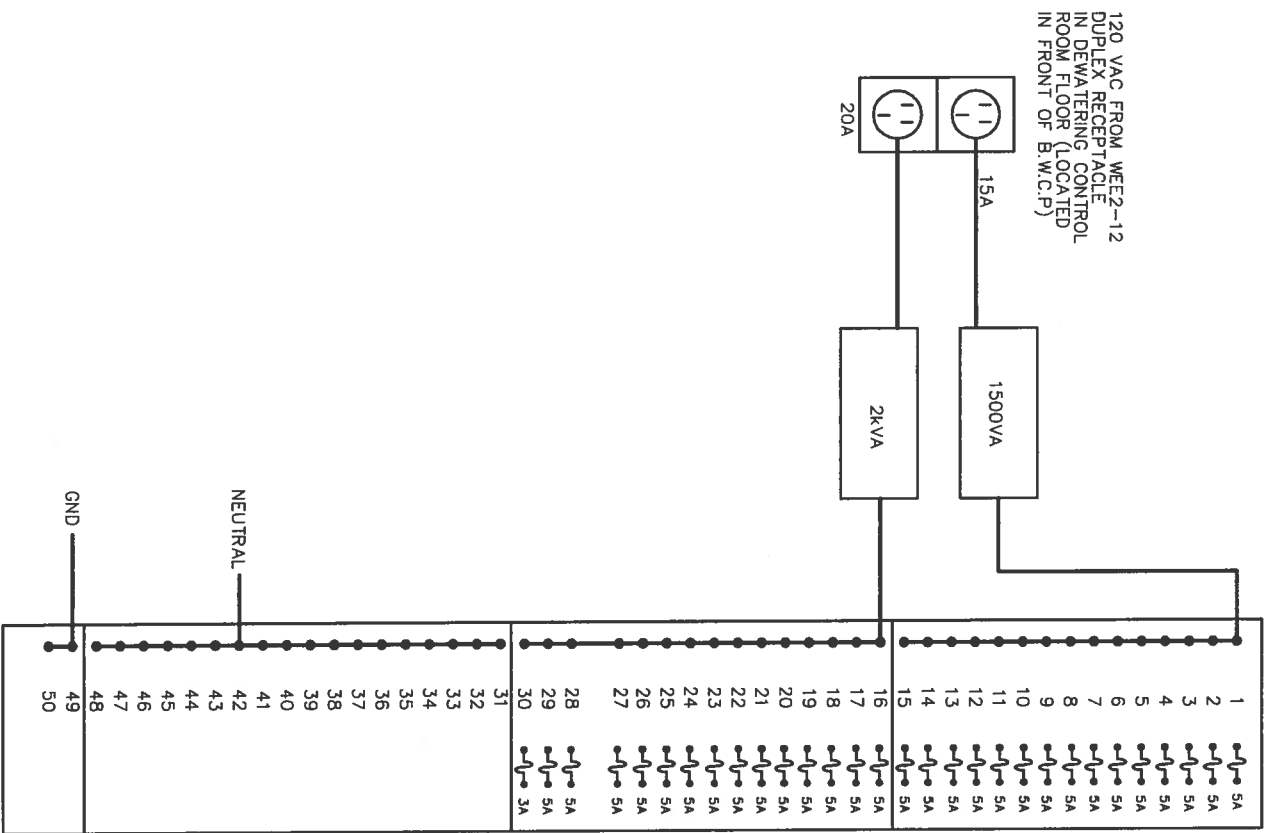


DESIGNED BY S.Y. DRAWN BY M.B.D. HOR. SCALE NTS VERTICAL		CHECKED BY M.A. / J.A. APPROVED BY RELEASED FOR CONSTRUCTION DATE		DESIGNER'S SEAL DATE	
NO. REVISIONS DATE		DATE		DATE	

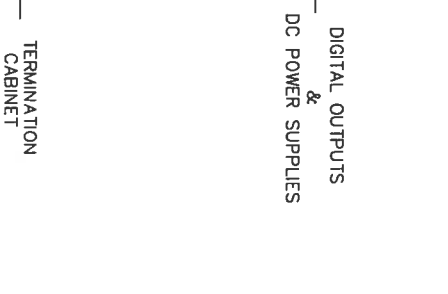
THE CITY OF WINNIPEG  
 WORKS AND OPERATIONS DIVISION  
 WATERWORKS WASTE AND DISPOSAL DEPARTMENT  
 N.E.W.P.C.C.  
 SLUDGE DEWATERING BLDG.  
 WEIGH OUT SYSTEM EMERGENCY STOP BUTTON WIRING LAYOUT

CONSULTANT DRAWING NO. 89-MJ1129-031  
 SHEET 22 OF 27  
 NEP-1904

POWER DISTRIBUTION  
TB5A (BWCP)



1	5A	PS1-L1	HOPPER 1 PLC DC POWER SUPPLY
2	5A	DO1A-L1	* TIE TO COMMON ON PLC OUTPUT
3	5A	DO1B-L1	* (EXCEPT FOR AUGER DRIVES)
4	5A	PS2-L1	HOPPER 2 PLC DC POWER SUPPLY
5	5A	DO2A-L1	*
6	5A	DO2B-L1	* HOPPER 3 PLC DC POWER SUPPLY
7	5A	PS3-L1	*
8	5A	DO3A-L1	*
9	5A	DO3B-L1	*
10	5A	PS4-L1	MISC & SEPTAGE PLC DC POWER SUPPLY
11	5A	DOS-L1	TIE TO OUTPUT COMMONS
12	5A	XZ7A-L1	PROMAC ISOLATOR HOPPER 1 WEIGHT
13	5A	XZ7B-L1	PROMAC ISOLATOR HOPPER 2 WEIGHT
14	5A	XZ7C-L1	PROMAC ISOLATOR HOPPER 3 WEIGHT
15	5A	1A-CH	TO TB1A-35
16	5A	1B-CH	TO TB1B-35
17	5A	2A-CH	TO TB2A-35
18	5A	2B-CH	TO TB2B-35
19	5A	3A-CH	TO TB3A-35
20	5A	3B-CH	TO TB3B-35
21	5A	M-CH	TO TB4A-27
22	5A	S-CH	TO TB4A-45
23	5A	A-CH	TO TB1A-42 MILLTRONICS W411-W461
24	5A	B-CH	TO TB1A-43 TRUCK TRAFFIC LIGHTS
25	5A	C-CH	TO TB1A-44 BIN WEIGHT DIGITIZERS
26	5A	D-CH	TO TB1A-45 PANIC BUTTON CIRCUIT
27	5A	E-CH	TO TB1A-46 SERIAL GATEWAY BY DIGITIZERS AND PRINTER RECEPTACLE & LIGHT IN TERMINATION CABINET
28	5A	F-CH	TO TB1A-47 NORTH PEDESTAL
29	5A	G-CH	TO TB1A-48 SOUTH PEDESTAL
30	3A	RECEPTACLE	LIGHT & RECEPTACLE IN CONTROL PANEL
31	3A	PS1-N	
32	5A	1A-N	TO TB1A-36 & DI COMMONS
33	5A	1B-N	TO TB1B-36 & DI COMMONS
34	5A	PS2-N	
35	5A	2A-N	TO TB2A-36 & DI COMMONS
36	5A	2B-N	TO TB2B-36 & DI COMMONS
37	5A	PS3-N	
38	5A	3A-N	TO TB3A-36 & DI COMMONS
39	5A	3B-N	TO TB3B-36 & DI COMMONS
40	5A	PS4-N	
41	5A	M-N	TO TB4A-28 & DI COMMONS
42	5A	S-N	TO TB4A-44 & DI COMMONS
43	5A	XZ7A-N	
44	5A	XZ7B-N	
45	5A	XZ7C-N	
46	5A		
47	5A		
48	5A		
49	5A		
50	5A		



<p>THE CITY OF WINNIPEG WORKS AND OPERATIONS DIVISION WATERWORKS WASTE AND DISPOSAL DEPARTMENT</p>		<p>CONTRACT DRAWING NO. 69-45329-032</p>	
<p>N.E.W.P.C.C. SLUDGE DEWATERING BLDG. WEIGH OUT AND SEPTAGE PANEL POWER DISTRIBUTION</p>		<p>SHEET 23 OF 27 NEP-1905</p>	
<p>DESIGNED BY M/J/JA</p>	<p>CHECKED BY M/J/JA</p>	<p>DATE MAY 19, 1992</p>	<p>DATE</p>
<p>DRAWN BY M.B.D.</p>	<p>APPROVED BY</p>	<p>RELASD FOR CONSTRUCTION</p>	<p>DATE</p>
<p>NO. REVISIONS</p>	<p>DATE</p>	<p>DATE</p>	<p>DATE</p>