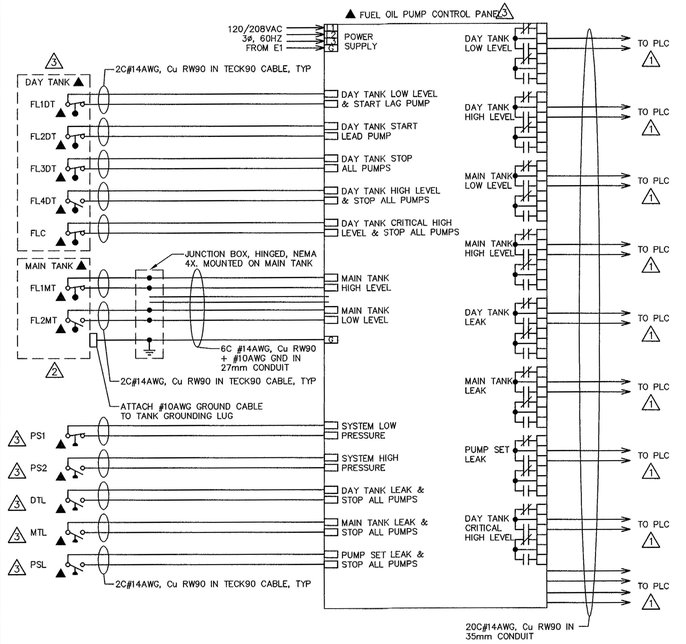
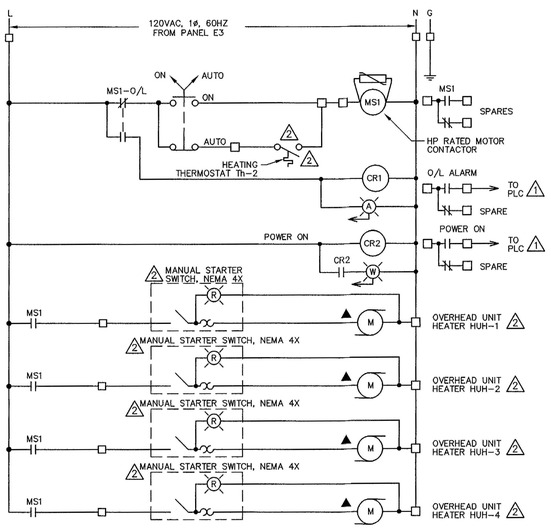


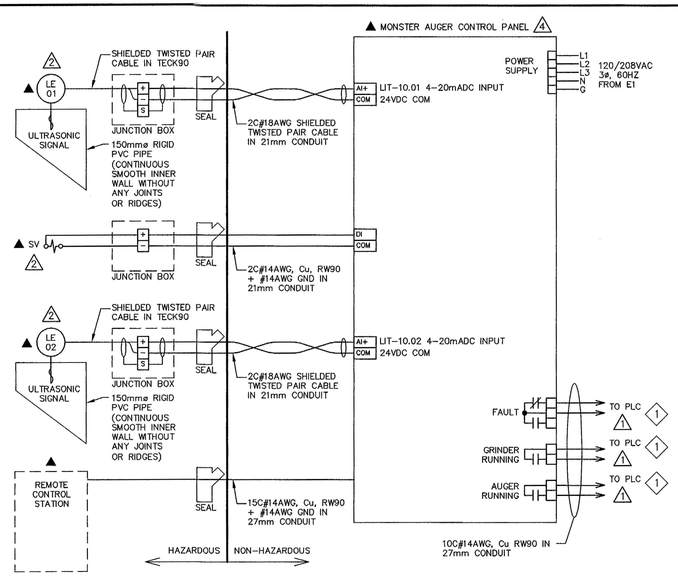
1 E4 DUPLEX FUEL OIL PUMP CONTROL PANEL WIRING DIAGRAM

- NTS
- CONCEPT DRAWING ONLY. CONTRACTOR TO REFER TO MANUFACTURER'S WIRING DIAGRAMS FOR EXACT REQUIREMENTS.



2 E4 HEATING CONTROL PANEL HCP–2 WIRING DIAGRAM

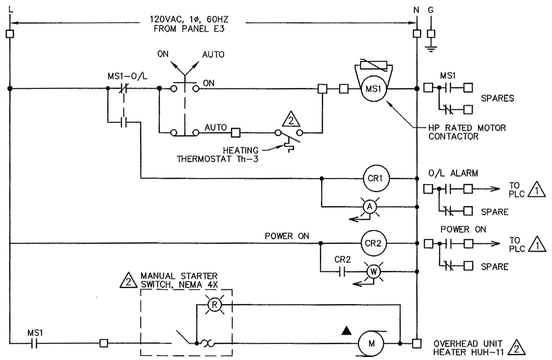
- ALL UNMARKED DEVICES IN EXPLOSION PROOF HCP–2 CONTROL PANEL: HUH–1, HUH–2, HUH–3, HUH–4 & Th–2
- SIMILAR DIAGRAM FOR HCP–1 CONTROL PANEL: HUH–5, HUH–6, HUH–7, HUH–8, HUH–9, HUH–13 & Th–1
- NO EXPLOSION PROOF REQUIREMENTS FOR HCP–1.



3 E4 MONSTER AUGER CONTROL PANEL WIRING DIGRAM

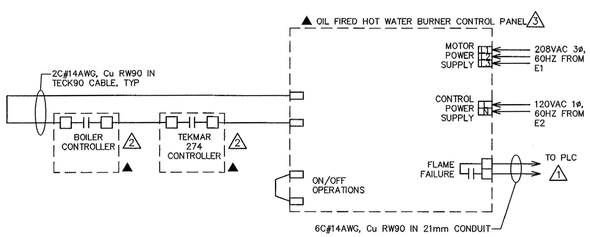
- NTS
- CONCEPT DRAWING ONLY. CONTRACTOR TO REFER TO MANUFACTURER'S WIRING DIAGRAMS FOR EXACT REQUIREMENTS.
- TYPICAL WIRING DIAGRAM FOR MONSTER AUGER CONTROL PANEL 2
- LOCATION OF ALL FIELD COMPONENTS TO BE CONFIRMED WITH MANUFACTURER.

1 CONTRACTOR TO PROVIDE ADDITIONAL CONNECTIONS, WIRING AND CONDUIT FOR EXISTING MONSTER AUGER CONTROL PANEL 1



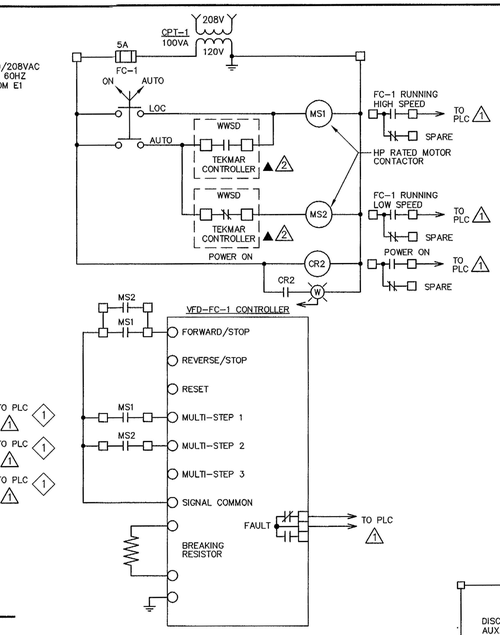
4 E4 HEATING CONTROL PANEL HCP–3 WIRING DIAGRAM

- ALL UNMARKED DEVICES IN HCP–3 CONTROL PANEL: HUH–10 & Th–3
- SIMILAR DIAGRAM FOR HCP–4 CONTROL PANEL: HUH–11 & Th–4
- SIMILAR DIAGRAM FOR HCP–5 CONTROL PANEL: HUH–12 & Th–5



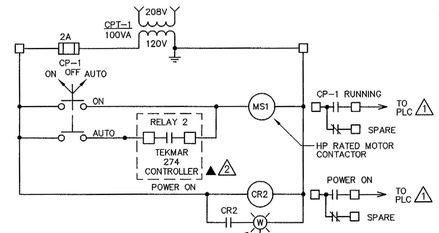
5 E4 OIL FIRED HOT WATER BURNER CONTROL PANEL BRN–1 WIRING DIAGRAM

- SIMILAR WIRING DIAGRAM OIL FIRED HOT EATER BOLIER CONTROL PANEL BRN–2



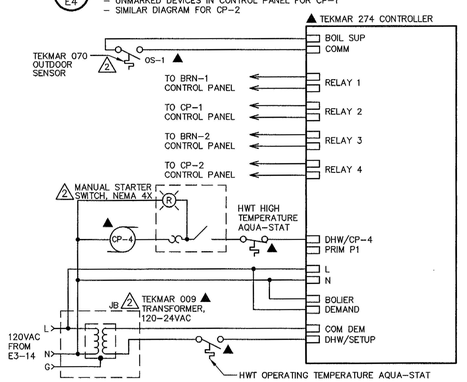
6 E4 FAN HEATING COIL FC–1 VFD CONTROL WIRING DIAGRAM

- ALL UNMARKED DEVICES IN EXPLOSION PROOF ENCLOSURE
- DIAGRAM BASED ON VFD AS MANUFACTURED BY DANFOSS (MODEL: VLT MICRO) . VFD MOUNTED IN ELECTRICAL ROOM–2nd FLOOR
- CONCEPT DRAWING ONLY. CONTRACTOR TO REFER TO MANUFACTURER'S WIRING DIAGRAMS FOR EXACT REQUIREMENTS.
- SIMILAR DIAGRAM FOR EXHAUST FAN FN–13.



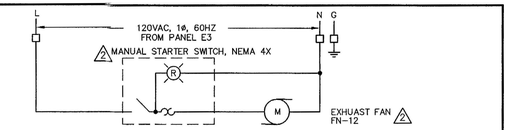
7 E4 CIRCULATING PUMP CP–1 CONTROL WIRING DIAGRAM

- UNMARKED DEVICES IN CONTROL PANEL FOR CP–1
- SIMILAR DIAGRAM FOR CP–2



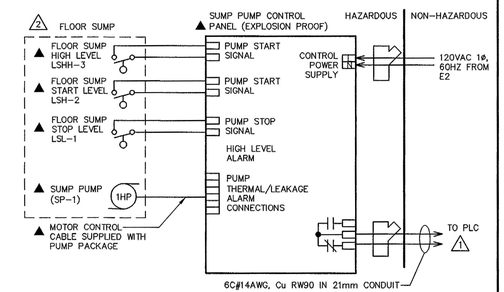
8 E4 TEKMAR 274 CONTROLLER WIRING DIAGRAM

- UNMARKED DEVICES IN CONTROL PANEL FOR CP–4
- CONCEPT DRAWING. REFER TO MANUFACTURER REQUIREMENTS FOR EXACT REQUIREMENTS



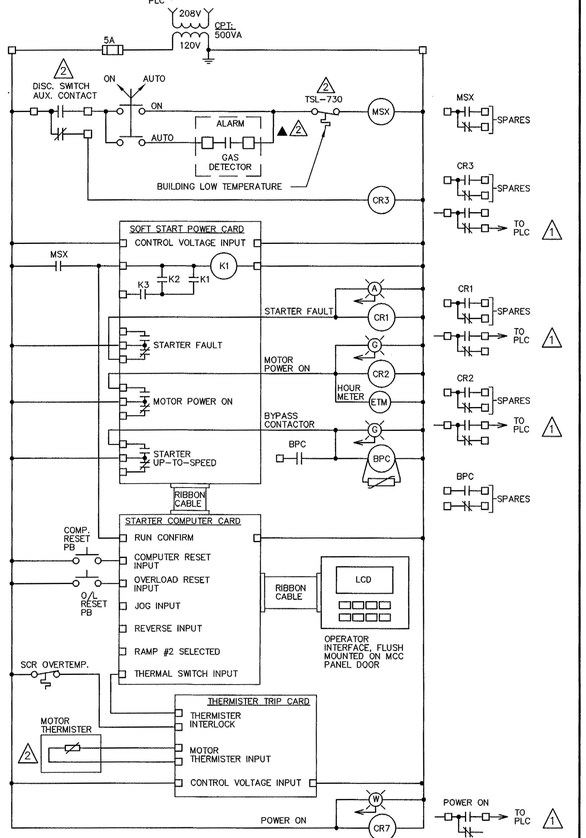
9 E4 EXHUAST FAN FN–12 CONTROL WIRING DIAGRAM

- DIAGRAM FOR EXPLOSION PROOF EXHAUST FAN FN–12 AND CIRCULATING PUMP CP–3



10 E4 FLOOR SUMP SP–1 CONTROL WIRING DIAGRAM

- DIAGRAM BASED ON F.E. MYERS SIMPLEX CONTROL SYSTEM
- CONTRACTOR TO INSTALL PUMP CONTROL PANEL AND WIRE ALL EXTERNAL FIELD DEVICES AS SHOWN
- CONTRACTOR TO PROVIDE INTRINSIC SAFETY BARRIER FOR SIGNALS TO PLC



11 E4 SUPPLY FAN FN–1 & FN–2 "SOFT–STARTER" CONTROL WIRING DIAGRAM

- FLUSH MOUNT PUSHBUTTON DEVICES AND OPERATOR INTERFACE ON CONTROL PANEL DOOR
- DIAGRAM BASED ON SOFT STARTER MANUFACTURED BY BENSHAW
- UNMARKED DEVICES LOCATED IN CONTROL PANEL WHICH CONTAINS SOFT STARTER FOR FN–1 AND FN–2
- CONTROL WIRING AS SHOWN FOR FN–1 SOFT STARTER IS TO BE DUPLICATED FOR FN–2 SOFT STARTER

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2. The contractor shall verify all dimensions, levels, and datums on site and report any discrepancies or omissions to this office prior to construction.
3. This drawing is to be read and understood in conjunction with all other plans and documents applicable to this project.
4. Drawing revision must be note "Issued For Construction" before any work commences

	Issue / Revision	Date dd/mm/yyyy
1	ISSUED FOR 66% SUBMISSION	06/09/2012
2	ISSUED FOR 99% SUBMISSION	JANUARY 2013
3	ISSUED FOR TENDER	FEBUARY 2013
4	REVISED AS PER ADDENDUM 1 TO 4 AND ISSUED FOR CONSTRUCTION	APRIL 2013

PERMIT TO PRACTICE
Runge & Associates Inc.
Signature
Date APRIL 22, 2013
PERMIT NUMBER: P617
The Association of Professional Engineers, Geologists and Geophysicists of NWT/NU

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Client
GOVERNMENT OF NUNAVUT
COMMUNITY & GOVERNMENT SERVICES
RANKIN INLET
SEWAGE TREATMENT PLANT

Drawing Title
ELEMENTARY CONTROL WIRING DIAGRAMS SHEET 1

Drawn By	Checked By	Drawing No.
T.T.	S.R.T.	E4
Scale: AS SHOWN	Project No.: 300031281	