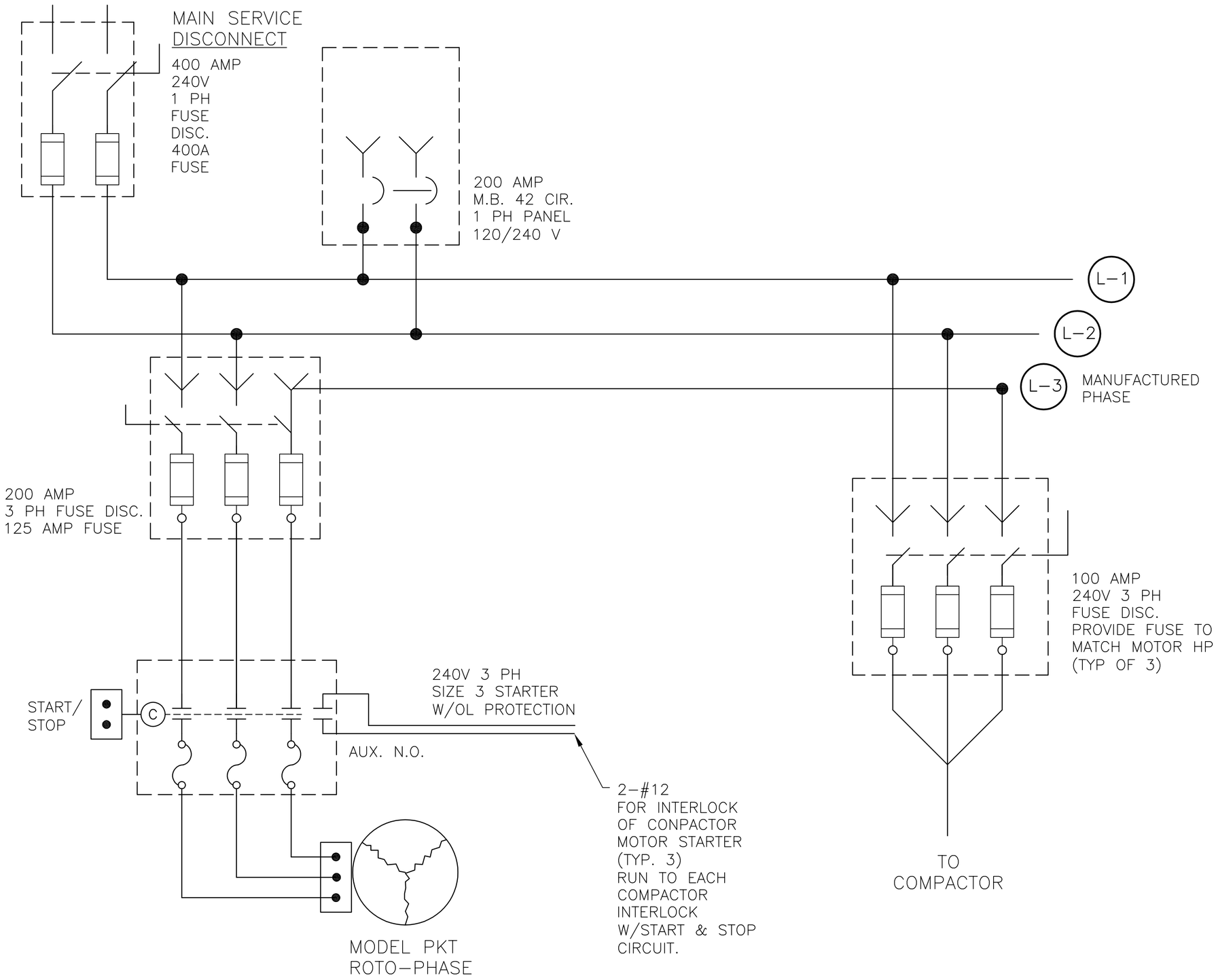
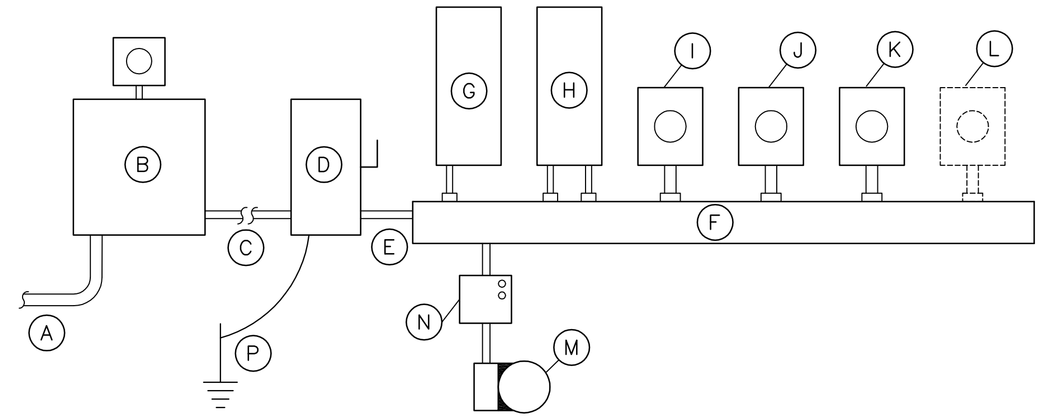


LINE DIAGRAM

SCALE: NTS



(A) 3-1/2" SCH 40 PVC CONDUIT W/3-600 MCM THWN Cu (OR) 2 SETS OF 2-12" SCH 40 PVC CONDUIT W/3-3/0 THWN Cu EACH. RUN TO OHIO EDISON TRANSFORMER POLE AND INSTALL PER OHIO EDISON SPECIFICATIONS. TRENCH DEPTH TO BE MINIMUM 24 INCH COVER.

(B) NEMA 3R CT CABINET AND METERING EQUIPMENT (PER OHIO EDISON SPECIFICATIONS)

(C) 3-1/2" CONDUIT W/3-600 MCM THWN Cu.

(D) 400 AMP 120/240 VOLT 1 PH 3 W FUSIBLE SWITCH. SERVICE ENTRANCE RATED. PROVIDE 400 AMP LOW PEAK FUSES.

(E) 3-1/2" CONDUIT W/2-500 MCM Cu (L-1 & L-2), 1-3/0 THWN Cu (N) & 1-#3 Cu GROUND.

(F) 8x8 NEMA 1 WIREWAY (LENGTH AS REQUIRED FOR ALL DISCONNECTS, PANELS, AND FUTURE DISCONNECTS AS INDICATED ON DRAWINGS) USE POLARIS I---SERIES FOR ALL TAP CONNECTIONS IN WIREWAY.

(G) 200 AMP MAIN BREAKER 42 CIRCUIT LOAD CENTER. 120/240 VOLT 1 PH 3 W. INSTALL EQUIPMENT GROUND BAR. PROVIDE REQUIRED CIRCUIT BREAKERS PER DRAWINGS AND 5 EXTRA 1-P 20 AMP CIRCUIT BREAKERS FOR SPARES. FEED W/3-3/0 THHN Cu AND 1-#6 Cu GR IN 2" CONDUIT.

(H) 200 AMP 240 VOLT 3 PH 4W FUSIBLE SWITCH. PROVIDE 125 AMP LOW PEAK FUSES. FEED W/2-#2 THHN Cu (L-3 TO BE #2 THHN Cu) & #6 Cu GROUND IN 1-1/2 INCH CONDUIT.

(I) 100 AMP 240 VOLT 3 PH 4W FUSIBLE SWITCH. PROVIDE FUSE SIZE AS REQUIRED FOR INDIVIDUAL COMPACTOR. USE LOW PEAK FUSES. FEED W/3-#3THHN Cu AND #6 Cu GROUND IN 1-1/4" CONDUIT.

(J) (SAME AS I)

(K) (SAME AS I)

(L) FUTURE SPACE EQUAL TO I

(M) ARCO MODEL PKT ROTO-PHASE (PROVIDED BY OWNER)

(N) SIZE 3 240 VOLT 3 PH MAGNETIC MOTOR STARTER W/OVERLOADS. NEMA 1 ENCLOSURE WITH BUILT IN START-STOP CONTROLS. PROVIDE OVERLOADS RATED AT 100 AMPS. PROVIDE ADDITIONAL AUX. NO CONTACTS FOR INTERLOCK CONTROL OF COMPACTORS (4-SETS). FEED STARTER AND ROTO-PHASE W/3 #2 THHN AND #6 Cu GROUND IN 1-1/2" CONDUIT/FLEX. INSTALL 2-#12 WIRES TO EACH COMPACTOR FOR INTERLOCK.

(P) INSTALL #1/0 Cu GROUND TO METAL FRAME OF BUILDING. VERIFY THAT THE METAL FRAME COMPLIES WITH NEC ART 250.52(A)(2) FOR EARTH CONNECTION. USE AN EXOTHERMIC TYPE CONNECTION. BOND ALL OTHER METALLIC PIPING SYSTEMS THAT MAY BE CONTAINED WITHIN THE BUILDING.

PANEL SCHEDULE — 200 AMP 120/240V 1PH

LOAD	DESCRIPTION	WIRE #	BREAKER	CIRCUIT		BREAKER	WIRE #	DESCRIPTION	LOAD
180	RECEPTACLES	12	20A-1P	1	2	20A-1P	12	RECEPTACLES	360
360	RECEPTACLES	12	20A-1P	3	4	20A-1P	12	HIGH BAY LIGHTS	1374
1374	HIGH BAY LIGHTS	12	20A-1P	5	6	20A-1P	12	FLOOD LIGHTS	426
426	FLOOD LIGHTS	12	20A-1P	7	8	20A-1P	12	SPARE	1374
916	FRONT WALL PACKS	12	20A-1P	9	10			SPARE	
				11	12			SPARE	
				13	14			SPARE	
				15	16			SPARE	
				17	18			SPARE	
				19	20				
				21	22				
				23	24				
				25	26				
				27	28				
				29	30				
				31	32				
				33	34				
				35	36				
				37	38				
				39	40				
				41	42				
3256	TOTAL LOAD 1-41			TOTAL CKT 1-42 6790 VA				TOTAL LOAD 2-42	3534

6790 VA/240 VOLTS = 28 AMPS TOTAL LOAD

A NEW RECYCLING BUILDING FOR LONDON, OHIO
NORTH CENTRAL OHIO SOLID WASTE DISTRICT

233 JENKINSON DRIVE
LONDON, OHIO 43140
MADISON COUNTY

NO.	CORR LTR DATE	REVISED ISSUE DATE

DESIGN BY PROFESSIONAL:
PIZZINO ENGINEERING & CONSULTING, LLC.
WILLIAM J. PIZZINO, P.E.
9495 SR 161
PLAIN CITY, OHIO 43064

CONCEPT BUILDINGS, INC.
MARYSVILLE, OHIO
(937) 644-0605

THIS SHEET:
ELECTRIC DATA
INFO, SCHEDULES
RISER/LINE DIAGRAM

PROJECT: RECYCLING BLDG
DATE: 09-19-07
DRAWN BY: P.R.M.
SCALE: AS NOTED

SHEET: 3 OF 5

E.2