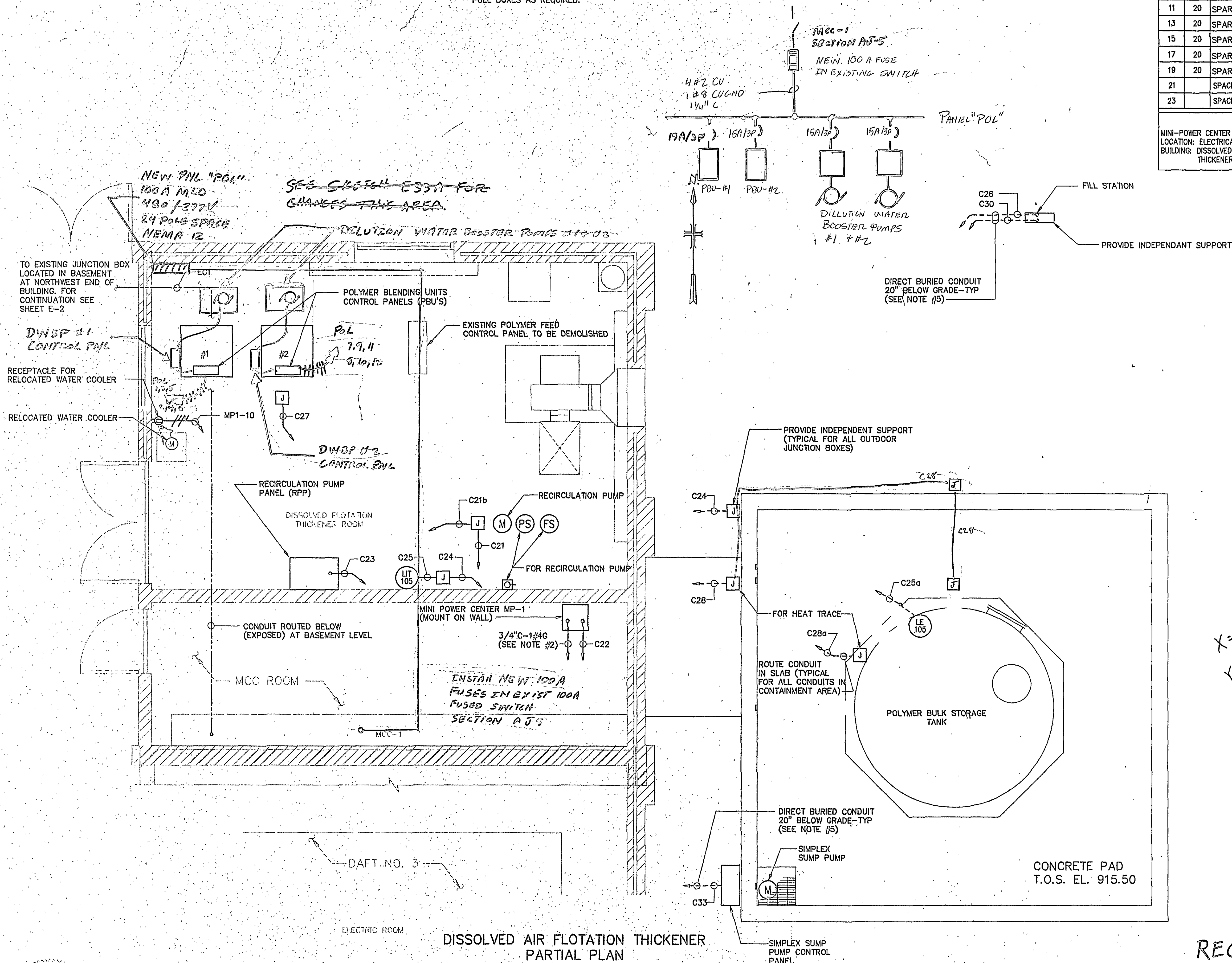


- NOTES:
1. AREA CLASSIFICATION:
 - a. THE EXISTING DISSOLVED AIR FLOTATION THICKENING ROOM AND ALL OUTDOOR AREAS ARE CONSIDERED A WET LOCATION. ALL EQUIPMENT, MATERIALS AND INCIDENTALS SHALL MEET NEMA 4X REQUIREMENTS. ALL EXPOSED CONDUITS SHALL BE PVC COATED RIGID STEEL CONDUITS.
 - b. THE EXISTING ELECTRIC ROOM IS CONSIDERED A DUSTY LOCATION. ALL EQUIPMENT, MATERIALS AND INCIDENTALS SHALL MEET NEMA 12 REQUIREMENTS. ALL EXPOSED CONDUITS SHALL BE PVC COATED RIGID STEEL.
 2. CONTRACTOR SHALL ROUTE 1/4 BARE COPPER GROUND IN 3/4" CONDUIT (AS INDICATED) FROM TRANSFORMER OF MP-1 TO EXISTING MCC-1; AND GROUND TO MCC-1 GROUND BUS.

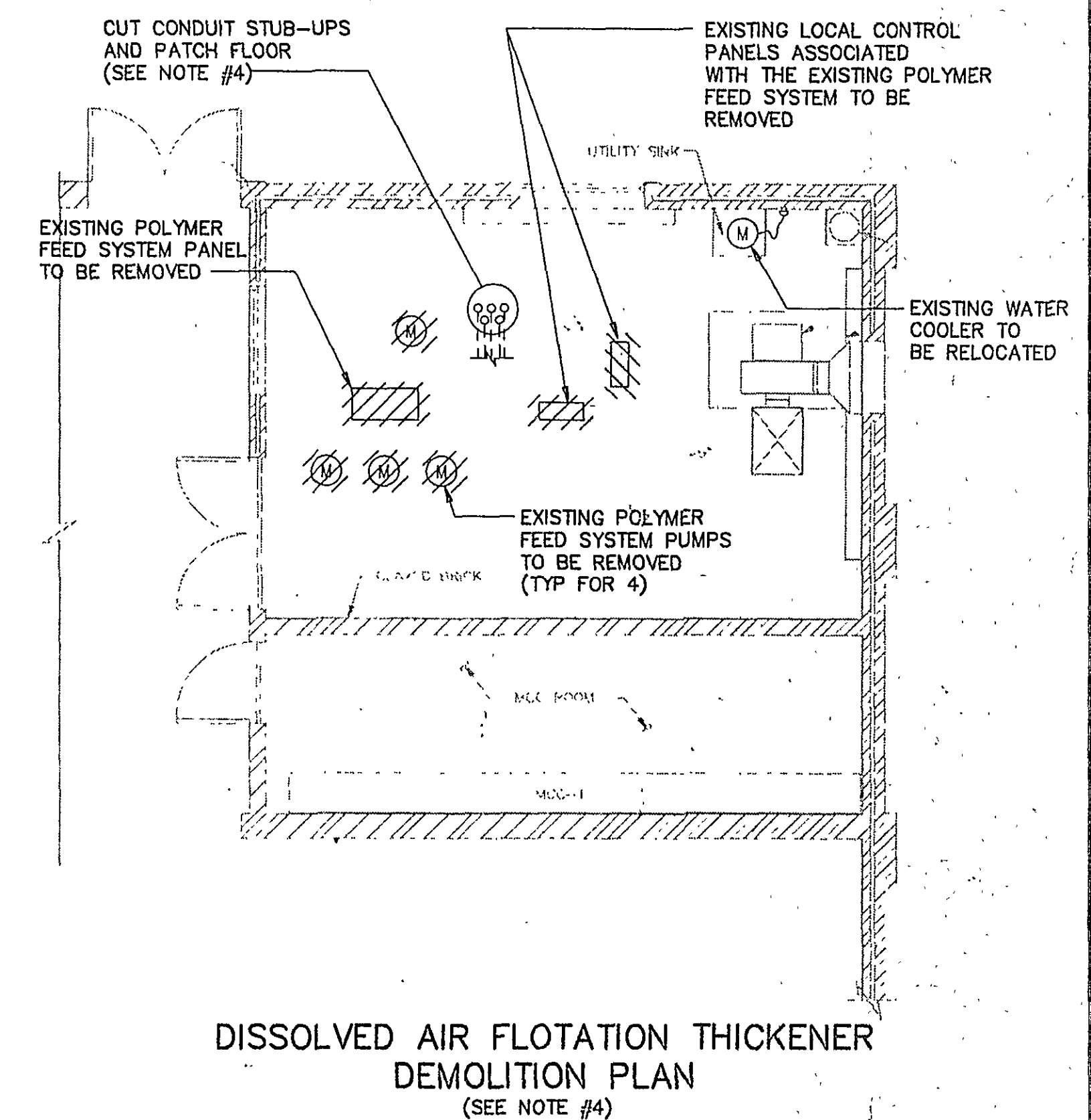
3. CONTRACTOR SHALL COORDINATE THE INSTALLATION OF UNDERGROUND CONDUITS FROM THE STORAGE TANK AREA AND FILL STATION TO THE THICKENER BUILDING WITH NEW AND EXISTING CONDITIONS.
4. CONTRACTOR SHALL DISCONNECT AND REMOVE ALL EXISTING POLYMER FEED SYSTEM EQUIPMENT. FIELD DETERMINE ORIGIN OF ALL WIRING FOR EQUIPMENT AND DISCONNECT AND REMOVE WIRING. REMOVE ALL EXPOSED CONDUIT. ALL EXISTING CONDUIT RUN IN SLAB SHALL BE CUT FLUSH TO SLAB, CAPPED AND ABANDONED IN PLACE. IT IS INTENDED THAT THE EXISTING POLYMER SYSTEM SHALL BE ENTIRELY REMOVED AND REPLACED WITH NEW.
5. RUN CONDUIT UNDERGROUND AND THRU EXISTING WALL. CORE DRILL THRU THE WALL AND PROVIDE PULL BOXES AS REQUIRED.



CKT NO.	TRIP AMPS	DESCRIPTION OF LOAD	LOAD KVA	KVA PER LEG		LOAD KVA	DESCRIPTION OF LOAD	TRIP AMPS	CKT NO.
				A	B				
1	30	POLYMER BLENDING UNIT NO. 1 - ONT - PNL	2.90	3.90		1.00	SIMPLEX SUMP PUMP CONTROL PANEL	20	2
3	30	POLYMER BLENDING UNIT NO. 2 - ONT - PNL	2.90		3.90	1.00	HEAT TRACE POWER SUPPLY (TANK)	30	4
5	20	LIT-105 AND FILL STATION POWER SUPPLY	0.50	1.50		1.00	HEAT TRACE POWER SUPPLY (TANK)	30	6
7	20	RECIRCULATION PUMP PANEL (RPP)	1.00		2.00	1.00	HEAT TRACE POWER SUPPLY (PIPING)	30	8
9	20	INSTRUMENTS	0.20	0.70		0.50	RECEPTACLE FOR WATER COOLER	20	10
11	20	SPARE	-			-	SPARE	20	12
13	20	SPARE	-			-	SPARE	20	14
15	20	SPARE	-			-	SPARE	20	16
17	20	SPARE	-			-	SPARE	20	18
19	20	SPARE	-			-	SPARE	20	20
21		SPACE	-			-	SPACE		22
23		SPACE	-			-	SPACE		24

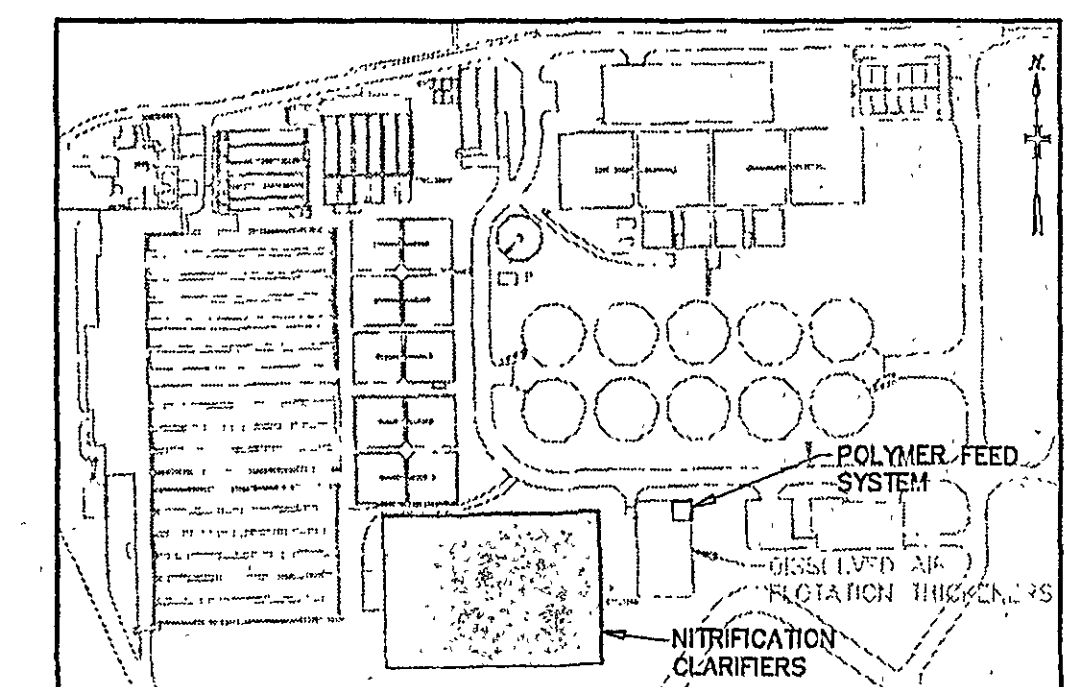
MINI-POWER CENTER LIGHTING PANEL: MP-1 LOCATION: ELECTRICAL ROOM BUILDING: DISSOLVED AIR FLOTATION THICKENER BUILDING	TOTAL KVA	6.10	5.90	SERVICE CHARACTERISTICS: 120/240 VOLT - 1 PHASE - 3 WIRE - 60 Hz PROVIDE MAIN BREAKER & SOLID NEUTRAL & GROUND BUS
	GRAND CONNECTED TOTAL KVA		12.00	

* PROVIDE GFCI CIRCUIT BREAKER (SIZE AS SHOWN)



$$X = -10.48$$
$$Y = -181.09$$

XREF:
0060M016
(83.72)



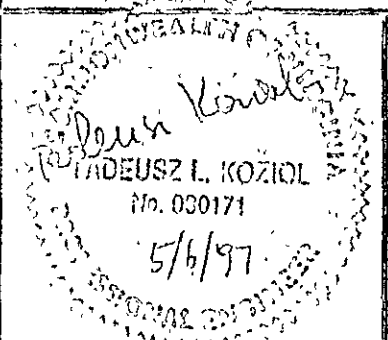
RECORD DRAWINGS

DISSOLVED AIR FLOTATION THICKENER POWER LAYOUT

SCALE: 3/8"=1'-0"

KEY PLAN
NTS

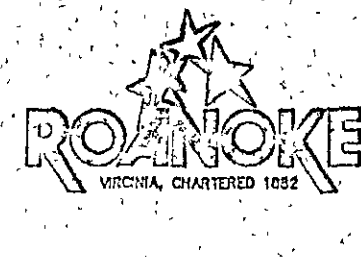
CITY OF ROANOKE, VIRGINIA WATER POLLUTION CONTROL PLANT UPGRADE AND EXPANSION



**MALCOLM
PIRNIE**
11032 Rock Landing Drive, Suite 400
Norfolk, Virginia 23008

REVISIONS			
NO.	BY	DATE	REVISION

DES. GJM/TK
DWN. GJM
CHKD. TK



COPYRIGHT © 1997
MALCOLM PIERNIE, INC.
DATE MAY 1997
E SHEET 34 OF 36
CAD REF. NO. 0060E699