

Ohio Bureau of Workers' Compensation
CRAC Replacement Project – B06013

Addendum A

02-22-06

1. Original contract section General Requirements (GR), "CRAC Replacement Considerations (Milestones)", Section I, item 4 to read as follows:

As HVAC units are shut down, provide two (2) 5-ton air cooled mobile air conditioners, with heat rejection ducted to the plenum space above the acoustical ceiling tiles. Provide two (2) high volume floor mounted, portable fans to help facilitate air movement during replacement of CRAC units. Remove floor tiles as needed to allow additional air movement in the area where CRAC's are being replaced. Coordinate locations on site as required. This supplemental cooling will help to insure temperatures remain adequately cool and consistent with the data center air temperatures prior to unit replacement. Contractor to test and verify operation of temporary cooling units before the disconnection and removal of each CRAC.

2. Refer to revised drawings for modifications regarding the electrical and mechanical contractor work. Note the following modifications:
 - a. **The new RAC 2-8 is wired by the electrical contractor. The alarm output from the new RAC 2-8 is to be wired to the existing Site Scan Monitoring system. Refer to revised drawing E1.0**
 - b. **CRAC units being replaced that are being relocated, new wiring is to be pulled from the existing site scan monitoring system. Splicing of the Site Scan monitoring wiring will not be accepted. Refer to revised drawing E1.0.**
 - c. **All leak detection wiring and installation by the electrical contractor. Refer to revised M1.0 and E1.0.**

Ohio Bureau of Workers' Compensation
CRAC Replacement Project – B06013

Clarification A

02-22-06

1. Refer to Specification Section 15532, Part 2 for chilled water piping and fitting materials. Pipe size 1-1/2" and over may be welded using steel butt welding fittings, pressure to match zone, Schedule 40, ASTM A-234 ANSI B16.9.
2. Two HVAC units may be replaced simultaneously. However, adequate cooling and air flow must be maintained for the data center and the specific area(s) affected within the data center (see General Requirements GR-6, Section I.4 and applicable addendum). Further, all guidelines as to order of replacement in General Requirements page GR-4, Implementation section 2, must be adhered to.

OHIO BUREAU OF WORKMAN'S COMPENSATION

30 W. SPRING ST.
COLUMBUS, OHIO

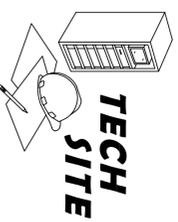
CRAC REPLACEMENT PROJECT

M1.0
M2.0
E1.0

HVAC FLOOR PLAN
HVAC SCHEDULES AND DETAILS
ELECTRICAL FLOOR PLAN

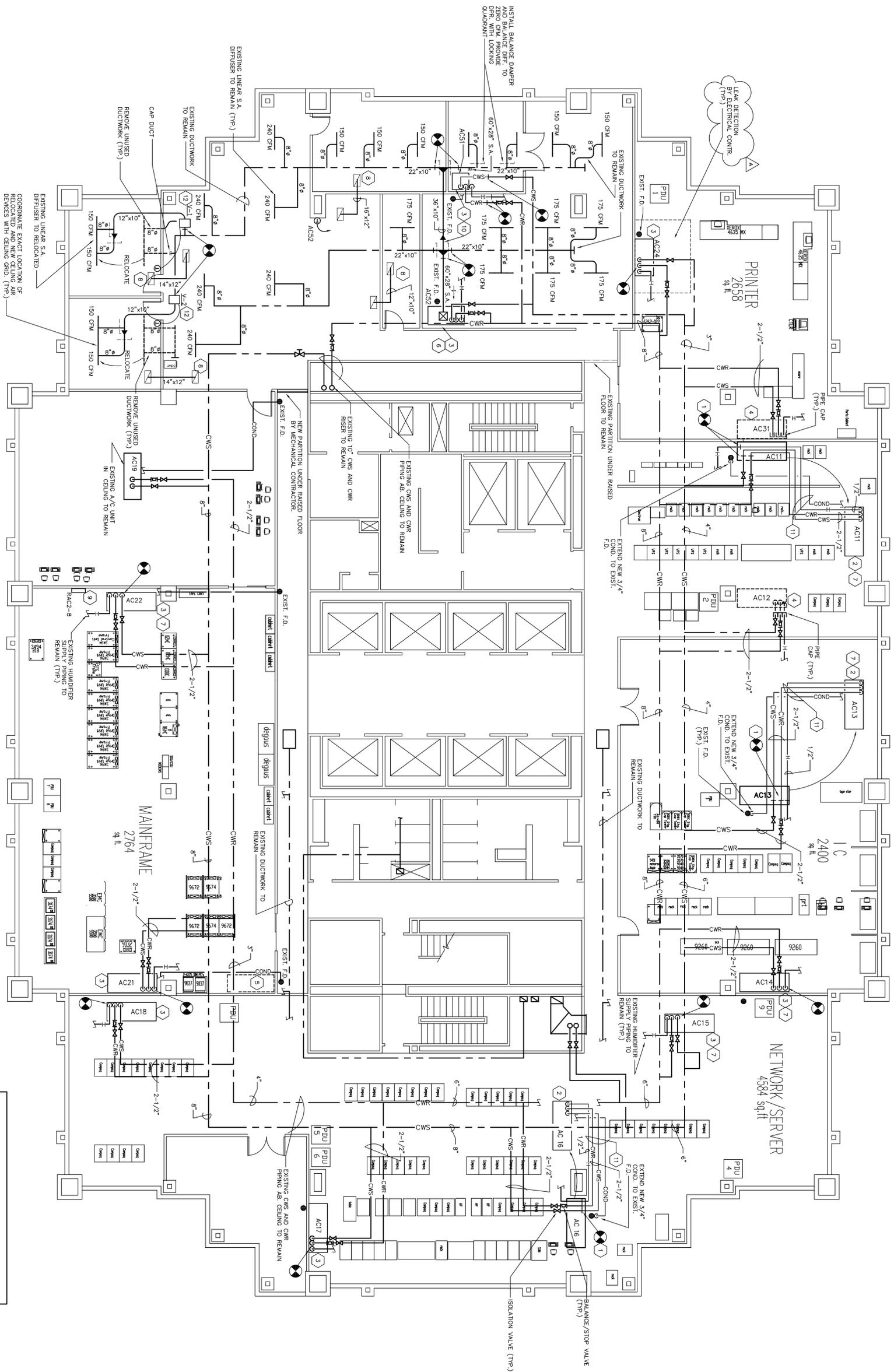
ISSUED MAY 19, 2005

REVISED - ADDENDUM "A", FEBRUARY 22, 2006



Technology SITE Planners

8188 BUISNESS WAY
PLAIN CITY, OH 43064
614-873-7800 fax: 614-873-7801



15TH FLOOR HVAC PLAN
 SCALE: 1/8" = 1'-0"

MECHANICAL NOTES:
 PROVIDE WATER BALANCE FOR EACH NEW AC UNIT. COORDINATE WITH MANUFACTURER'S SPECIFICATIONS AND SCHEDULE ON SHI, M2.
 INSULATE ALL PIPING TO MATCH EXISTING. REFER TO SPECIFICATIONS.
 ALL WIRING BY ELECTRICAL CONTRACTOR.

LEGEND

SYMBOL	DESCRIPTION
---	EXISTING
---	NEW
---	DEMO

- CODED NOTES**
- DISCONNECT AND REMOVE EXISTING AC UNIT. CONNECT TO EXISTING PIPING AND EXTEND NEW PIPING TO NEW AC UNIT LOCATION. FIELD VERIFY EXACT REPAIR RASIED FLOOR AS REQUIRED. COORD. WITH BWC.
 - NEW AC LOCATION. EXTEND NEW CWS, CWR, HUM AND CONDENSATE PIPING TO NEW AC UNIT LOCATION. FIELD VERIFY EXACT COORD. WITH BWC. REMOVE AND CUT/REPAIR RASIED FLOOR AS REQUIRED. COORD. WITH BWC.
 - REMOVE EXISTING AC AND INSTALL NEW AC IN SAME EXACT LOCATION. FIELD VERIFY ALL PIPING LOCATIONS AND COORD. POWER REQUIREMENTS. W/E.C. THIS CONTRACTOR TO DISCONNECT EXISTING PIPING AND MAKE ALL NEW CWS, CWR, HUM AND CONDENSATE PIPING CONNECTIONS.
 - REMOVE EXISTING AC & RIR STAND. CAP ALL PIPING ABOVE CEILING. REMOVE ALL COND. PIPING. FIELD VERIFY EXACT LOCATION OF ALL PIPING. REPAIR FLOOR AS REQUIRED. COORD. WITH BWC.
 - EXISTING AC NOT CURRENTLY IN OPERATION. THIS CONTRACTOR TO REMOVE. COORDINATE WITH OWNER.
 - DISCONNECT EXISTING DUCTWORK TO REPLACE EXISTING AC WITH NEW AC. RE-CONNECT DUCTWORK TO NEW AC. MAKE ALL NECESSARY TRANSITIONS REQUIRED. BALANCE TO CWS & SWAN.
 - INSTALL MANUFACTURER PROVIDED TURNING VANE PLenum UNDER RAISED FLOOR. COORDINATE WITH NEW AC.
 - NEW 24"x12" R.A. TRANSFER GRILLES IN CEILING. EXTEND NEW TRANSFER DUCTWORK ABOVE CEILING AS SHOWN. COORDINATE WITH ELECTRICAL CONTRACTOR. ALL WIRING BY E.C.
 - NEW RMCZ-8 ON WALL BY ELECTRICAL CONTRACTOR. ALL WIRING BY E.C.
 - INSTALL NEW AC S1. CAP EXISTING S.A. DUCTWORK AND EXTEND NEW PIPING TO NEW AC S1. COORDINATE WITH OWNER. FIELD VERIFY EXACT COORDINATE EXACT LOCATION OF NEW UNIT WITH OWNER. COORD. POWER REQUIREMENTS WITH E.C.
 - COORDINATE ALL PIPING ABOVE CEILING AND BELOW RAISED FLOOR. COORDINATE INSTALLATION AROUND EXISTING COMPUTER EQUIPMENT AND WIRING IN SPACE. COORDINATE WITH BWC.
 - EXISTING VAV TERMINALS RELOCATED FROM THIS FLOOR. TO BE REUSED AS SHOWN. CAP AND INSULATE ALL UNUSED DUCTWORK. COORDINATE WITH ELECTRICAL CONTRACTOR. AS REQUIRED. INSTALL WITH NEW DDC CONTROLS TO MATCH EXISTING JOHNSON BUILDING CONTROLS. COORDINATE WITH BWC AND BUILDING AUTOMATION CONTROLS CONTRACTOR.

REVISIONS

REV	BY	DATE	DESCRIPTION
A	PAR	2-22-06	ADDENDUM "A"

DESIGNERS:
TECHNOLOGY SITE Planners
 8188 BUSINESS WAY
 PLAIN CITY, OH 43064
 614-873-7800 fax: 614-873-7801

PROJECT:
OHIO BUREAU OF WORKERS COMPENSATION
 30 W. SPRING ST.
 COLUMBUS, OHIO

CRAC REPLACEMENT PROJECT

DRAWN BY:	JPM/PAF	DESIGNED BY:	PR	DATE:	4-16-05
APPROVED BY:	PAR	CLIENT NO.:	1269	JOB NO.:	1584
DRAWING NAME:	M1.0.dwg	TITLE:	HVAC FLOOR PLAN		

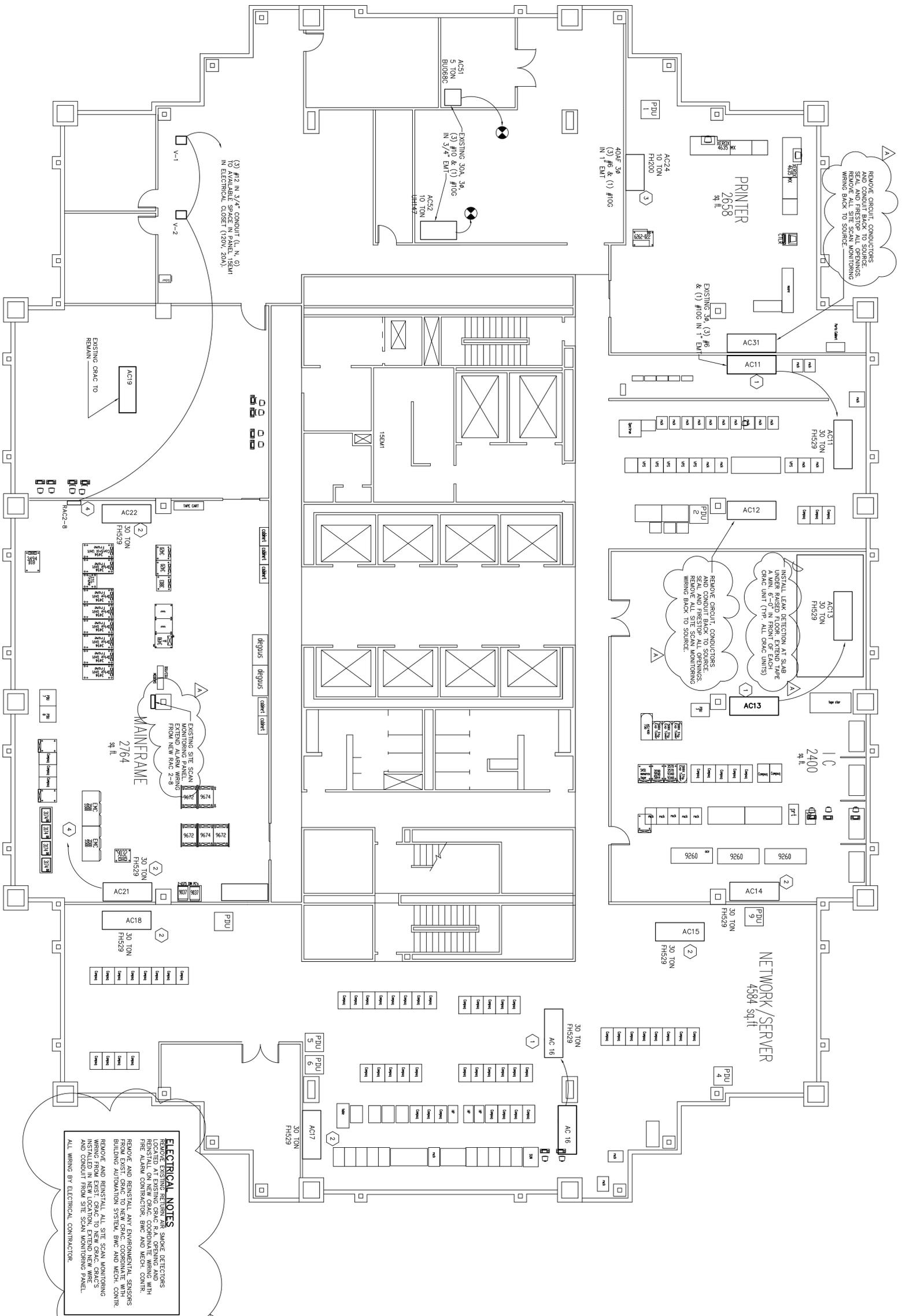
LAST EDIT DATE:	5-18-05	DRAWING NO.:	M1.0
SCALE:	1/8" = 1'-0"		

MECHANICAL ABBREVIATIONS

AB. I.R.	ABOVE	INV. ELEV.	INERT ELEVATION
AD.	ACCESS DOOR	J.R.	JANITOR RECEPTOR
ATL	ATTIC	L.V.	LAVATORY
BTL	BOTTOM	M.N. DR.	MANUAL DAMPER
BOD.	BUILDING	MCH.	MECHANICAL
CLG.	CEILING	M. A.	MIXED AIR
CONC.	CONCRETE	O.A.	OUTSIDE AIR
C.O.	CLEANOUT	PLB.	PLUMBING
CONN.	CONNECT	REG.	REGISTER
CONTR.	CONTRACTOR	REDO.	REDOOR
DTL.	DETAIL	R.A.	RETURN AIR
DIFF.	DIFFUSER	R.M.	ROOM
DN.	DOWN	S.A.	SUPPLY AIR
ELEC.	ELECTRICAL	SH.T.L.	SHEET METAL
EXH.	EXHAUST	S & R	SUPPLY & RETURN
EXST.	EXISTING	S.S.	SERVICE SINK
E.W.C.	ELECTRIC WATER COOLER	TYP.	TYPICAL
FLEX.	FLEXIBLE	T.C.C.	TEMP. CONTROL CONTRACTOR
F.L.R.	FLOOR	UR.	URINAL
F.A.	FLOOR DRAIN	V.T.R.	VENT THRU ROOF
FURN.	FURNISH	VE. ISOL.	VEGETATION ISOLATION
GR.	GRILLE	W/	WITH
H.B.	HOSE BIBB	W.C.	WATER CLOSET
H.R.	HEATER		

MECHANICAL LEGEND

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
— CW —	DOMESTIC COLD WATER LINE	— P —	PIPE UNION
— CWR —	CHILLED WATER RETURN	— Y —	Y-TYPE STRAINER
— CWS —	CHILLED WATER SUPPLY	— CB —	COIL BALANCE & STOP VALVE
— COND —	CONDENSATE DRAIN LINE	— G —	GATE VALVE (SHOWN BODY)
— G —	GAS LINE	— B —	BALL VALVE
— HG —	HOT GAS LINE	— V —	VENT LINE
— HW —	DOMESTIC HOT WATER LINE	— V1 —	VENT LINE
— LD —	LIQUID LINE	— V2 —	VENT LINE
— SAN —	SANITARY LINE	— V3 —	VENT LINE
— S —	SECTION LINE	— V4 —	VENT LINE
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15TH FLOOR ELECTRICAL PLAN
 SCALE: 1/8" = 1'-0"



LEGEND

SYMBOL	DESCRIPTION
	EXISTING
	NEW
	DEMO
	CONNECT TO EXISTING

CODED NOTES

1. PROVIDE JUNCTION BOX WITH ROUND-TIGER AND 3-POLE TERMINAL BLOCK. LUGS TO CAT NO. PDB-152/0-2, AND EXTEND 17' CONDUIT TO 60" ABOVE FLOOR. PROVIDE 1/2" DIA. RIGID CONDUIT TO 60" ABOVE FLOOR. EXTEND NEW MONITORING WIRING FROM EXIST. SITE SCAN MONITORING SYSTEM.
2. RECONNECT TO EXISTING CIRCUIT. PROVIDE NEW 6'-0" LENGTH OF LIQUID TIGHT, FLEXIBLE METAL CONDUIT (L) WITH FITTINGS AND SOA FUSES.
3. REMOVE 3/4" DIA. RIGID CONDUIT (L) WITH FITTINGS AND SOA FUSES. REPLACE JPS-SOA FUSES WITH NEW LES-400 FUSES.
4. PROVIDE (4) #14 AND #16 GROUND IN 3/4" CONDUIT TO THE WALL-MOUNTED RAC 2-8 CONTROL PANEL IN THIS ROOM. RAC 2-8 INSTALLED BY E.C. EXTEND CONTROL WIRING FROM PARK 2-8 TO CRAC 21 AND 22. ALL WIRE IN CONDUIT.

GENERAL NOTES

1. ALL WORK SHALL COMPLY WITH NFPA 70 NATIONAL ELECTRICAL CODE 2005, STATE & LOCAL CODES.
2. COORDINATE WITH MECHANICAL CONTRACTOR FOR DEMO & CONNECTION OF CIRCUITS FEEDING A/C UNITS.
3. COORDINATE WORK WITH OWNER, M.C., AND ENGINEER.
4. ALL WIRING SHALL BE STRANDED COPPER CONDUCTORS, THIN, IN EMT AND/OR LIQUID TIGHT, FLEXIBLE METAL CONDUIT. SEE JOB SPECIFICATION FOR FURTHER REQUIREMENTS AND STANDARDS.
5. PROVIDE SIX (6) SPARE 60A LPS FUSES TO OWNER.
6. RECONNECT EXISTING SITE SCAN (TWISTED PAIR) COMMUNICATION WIRES AT ALL NEW/RELOCATED AC UNITS.
7. ALL CONTROL, POWER AND SITE SCAN WIRING IN CONDUIT.

REV	BY	DATE	DESCRIPTION
A	PAR	2-22-06	ADDENDUM "A"

DESIGNERS:

TECHNOLOGY SITE PLANNERS
 8188 BUSINESS WAY
 PLAIN CITY, OH 43064
 614-873-7800 fax: 614-873-7801

**OHIO BUREAU OF WORKERS
 COMPENSATION**
 30 W. SPRING ST.
 COLUMBUS, OHIO

CRAC REPLACEMENT PROJECT

DRAWN BY:	DESIGNED BY:	DATE:
JPM/PAW	PR/FWJ	4-16-05
APPROVED BY:	CLIENT NO.	JOB NO.
PAR	1269	1584
DRAWING NAME:	E1.0.dwg	
SEAL	TITLE	

ELECTRICAL FLOOR PLAN
 SCALE: 1/8" = 1'-0"
E1.0