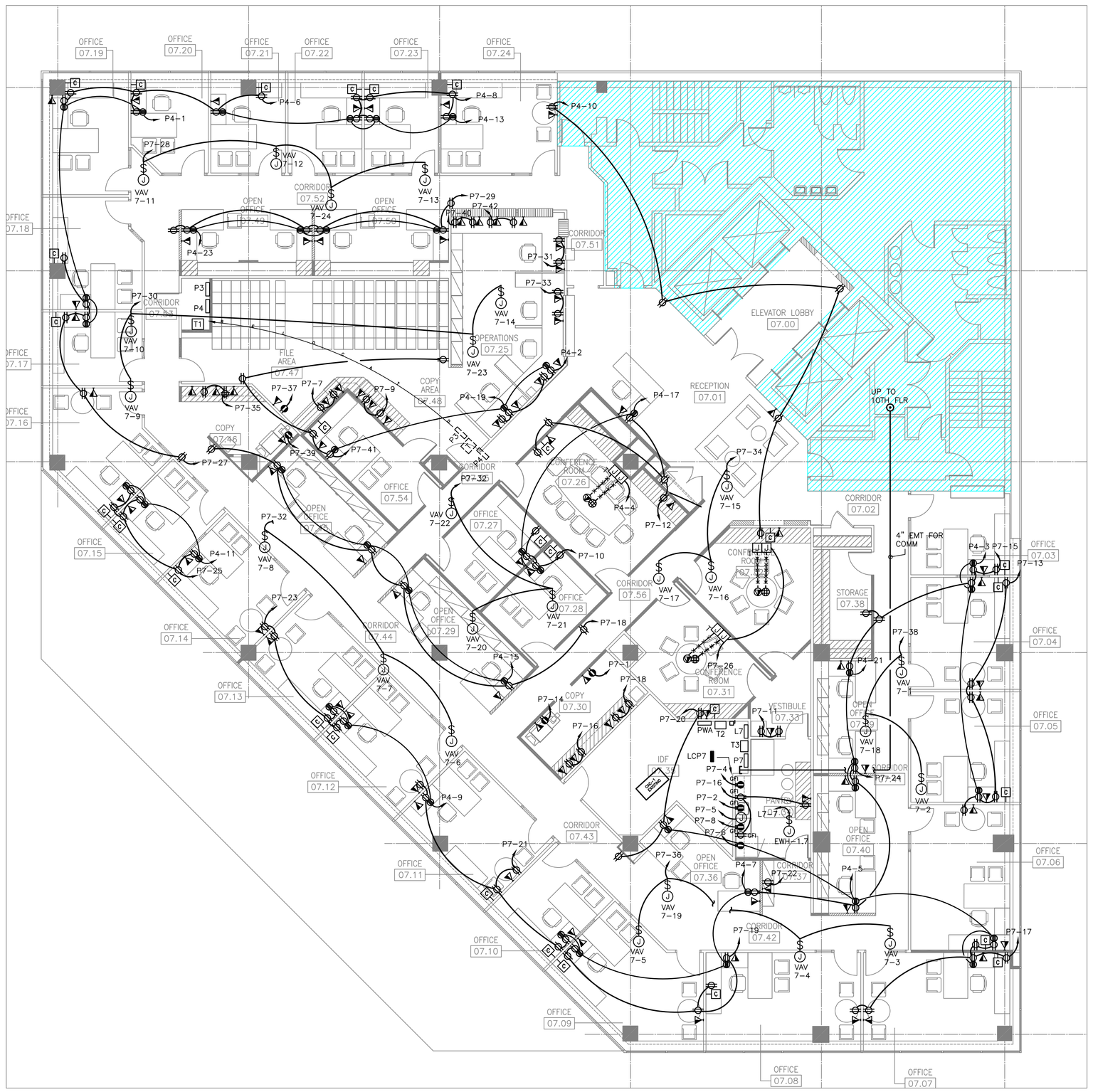
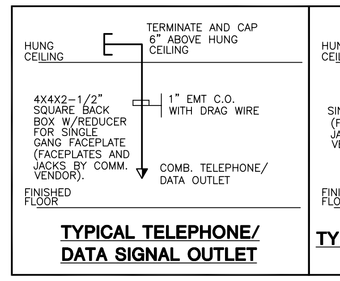
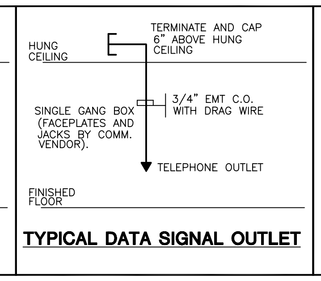


POWER PLAN LEGEND

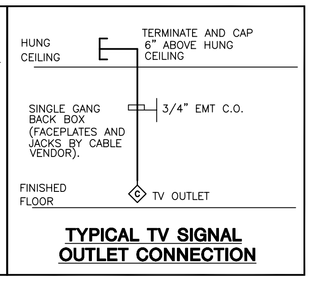
SYMBOL	DECRIPTION	SYMBOL	DECRIPTION
	120V, 20A WALL MOUNTED DUPLEX RECEPTACLE, NEMA 5–20R FOR CONVENIENCE POWER. 'GFI' INDICATES GROUND FAULT INTERRUPTER WHERE INDICATED.		WALL MOUNTED COMBINATION TYPE DATA / TELEPHONE OUTLET. PROVIDE 4" SQUARE J.BOX WITH 1" EMT CONDUIT STUB–UP 6" ABOVE CEILING & PULL STRING. CABLE AND FACEPLATE SUPPLIED AND INSTALLED BY COMMUNICATION VENDOR.
	TWO WALL MOUNTED DUPLEX RECEPTACLES WITH (1) TWO GANG COVER PLATE: (1) 120V, 20A DUPLEX RECEPTACLE FOR CONVENIENCE POWER, NEMA 5–20R AND, (1) 120V, 20A DUPLEX RECEPTACLE, RED COLOR FOR COMPUTER POWER, NEMA 5–20R TYPE.		WALL MOUNTED DATA OUTLET, PROVIDE SINGLE GANG BOX WITH 3/4" EMT CONDUIT STUB–UP 6" ABOVE CEILING & PULL STRING. CABLE AND FACE PLATE SUPPLIED AND INSTALLED BY 'UBS' VENDOR.
	120V, 20A WALL MOUNTED DUPLEX RECEPTACLE NEMA 5–20R ON DEDICATED CIRCUIT. GRAY COLOR TO INDICATE DEDICATED RECEPTACLE. GFI INDICATES GROUND FAULT INTERRUPTER WHERE INDICATED.		FLUSH, FLOOR MOUNTED, POKE THRU FOR DATA/TELCOMM OUTLETS. "RACEWAY COMPONENT" RC900–AMQ114 BY "WIREMOLD" REQUIRES 3" CORE Ø SLAB. PROVIDE SLIDE COVERS AND CARPET FLANGE FOR BOTH DEVICES, BLACK COLOR.
	120V, 20A WALL MOUNTED DOUBLE DUPLEX RECEPTACLE NEMA 5–20R FOR CONVENIENCE POWER.	C	WALL MOUNTED CABLE TELEVISION OUTLET. PROVIDE SINGLE GANG BOX WITH 3/4" EMT CONDUIT STUP–UP 6" ABOVE CEILING & PULL STRING. CABLE AND FACEPLATE SUPPLIED AND INSTALLED BY VENDOR.
	NEW FLOOR MOUNTED DOUBLE DUPLEX RECEPTACLE: (1) 120V, 20A DUPLEX RECEPTACLE FOR CONVENIENCE POWER, NEMA 5–20R AND, (1) 120V, 20A DUPLEX RECEPTACLE, RED COLOR FOR COMPUTER POWER, NEMA 5–20R. AND (4) CAT. 5 COMMUNICATION JACKS WITH A 4" CORE DRILL Ø SLAB. 'WIREMOLD' RC4 MULTIPLE SERVICE CATEGORY 5 POKE THRU FITTINGS WITH SLIDE COVERS AND CARPET FLANGES – BLACK COLOR.	60/40/3/600	UNFUSED DISCONNECT SWITCH, IN NEMA 1 ENCLOSURE U.O.N. 60=AMPS, 40=FUSE SIZE, 3=POLES AND 600=VOLTAGE RATING AS INDICATED.
J	WALL MOUNTED JUNCTION BOX WITH CONDUIT RISE UPTO CEILING FOR POWER INFEED.	J	JUNCTION BOX WITH 20A SINGLE POLE THERMAL TYPE DISCONNECT SWITCH.
JT	WALL MOUNTED JUNCTION BOX WITH CONDUIT RISE UPTO CEILING FOR DATA/TELEPHONE INFEED.	J	JUNCTION BOX WITH 20A SINGLE POLE TOGGLE TYPE DISCONNECT SWITCH.
J	JUNCTION BOX, SIZE AS REQUIRED.		HOMERUN. THE NUMBER OF ARROWS INDICATE THE NUMBER OF CIRCUITS TO PANEL.
			NEW CONDUIT / WIRING.
			NEW CONDUIT / WIRING UNDER THE FLOOR SLAB.
			NEW ELECTRICAL PANEL.
			EXISTING ELECTRICAL PANEL.



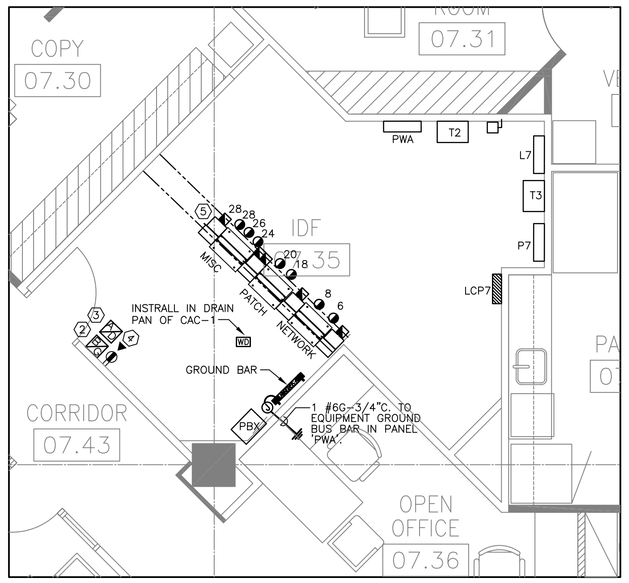
TYPICAL TELEPHONE/ DATA SIGNAL OUTLET



TYPICAL DATA SIGNAL OUTLET



TYPICAL TV SIGNAL OUTLET CONNECTION



IDF ROOM #7.35
SCALE: 1/4" = 1'–0"

EQUIPMENT ROOM LEGEND

- EXISTING 20A, 125V TWISTLOCK, NEMA L5–20R, MOUNTED ON THE LADDER RACK.
- NEW 6'–0" LENGTH VERTICAL PLUGMOLD WITH (12) 15A SIMPLEX OUTLETS MOUNTED INSIDE OF VERTICAL WIRE MANAGER ON RACK OR WALL. WIREMOLD 2000 SERIES 20GB609 HARDWIRED, IN THE NETWORK RACKS AND ON WALL, PLUGGED INTO TWISTLOCK RECEPTACLE ON THE LADDER RACK.
- WALL MOUNTED POT OUTLET FOR AUTODIALER.
- NEW DISCONNECT SWITCH.
- NEW CEILING MOUNTED DUAL TECHNOLOGY HEAT/SMOKE DETECTOR.
- EXISTING BREAK GLASS SWITCH
- NEW SENSAPHONE AUTODIALER.
- NEW WATER LEAK DETECTOR.

1. ALL ELECTRICAL DEVICES AND CIRCUITS IN IDF ROOM ARE EXISTING TO REMAIN. THE ONLY NEW DEVICES TO BE INSTALLED ARE NEW PLUGMOLDS IN EQUIPMENT RACKS.
2. EXISTING PUSH BUTTON TYPE BREAKGLASS SWITCH (FOR EMERGENCY POWER OFF) WITH PROTECTIVE CLEAR COVER. (SEE DETAIL).
3. WALL MOUNTED (54" HIGH) AUTODIALER, SENSAPHONE MODEL #400 WITH BUILT–IN 'HI/LOW TEMP' ALARM SENSOR AND ANOTHER SENSOR 'FGD–0013' FOR DETECTION OF WATER LEAKS. (SEE SCHEMATIC DETAIL). PHONETICS INC. @ (610) 558–2700.
4. AUTO–DIALER DEDICATED TELEPHONE OUTLET
5. EXISTING 12" WIDE, 4" DEEP, 3/8"X2" SOLID BAR STRINGERS, AL LADDER RACK 7'–6" A.F.F. "B–LINE". EXISTING
6. NEW 4" EMT CONDUIT TO BE RUN TO 10TH FLOOR IDF ROOM.
7. ALL EXISTING EMT SLEEVES THROUGH IDF ROOM PARTITIONS FOR HORIZONTAL CABLE DISTRIBUTION AND EXISTING CONDUIT CONNECTING IDF ROOM AND BUILDING TELEPHONE CLOSET SHALL REMAIN.
8. PROVIDE ONE (1) 4" x 1/4" COPPER GROUND BARS, 20" LONG FOR COMMUNICATIONS GROUNDING. INSTALL ON 2" STANDOFF INSULATORS. MOUNT 8" A.F.F. CONNECT OTHER END OF COPPER BAR WITH 1 #6 IN 3/4"C TO EQUIPMENT GROUND BAR IN PANEL "PW–A".
   CONNECT ALL METAL PARTS INSIDE THE IDF ROOM TO THE GROUND BAR WITH 1 #6 Cu WIRE INCLUDING, BUT NOT LIMITED TO EQUIPMENT CABINETS AND RACKS, LADDER RACK, AND HVAC DUCT.
9. ELECTRICAL CONTRACTOR TO PROVIDE END BUSHINGS AND PULL STRINGS FOR ALL EMPTY CONDUITS THAT MAY BE REQUESTED BY 'GOLDMAN SACHS' COMMUNICATIONS.
10. ELECTRICAL CONTRACTOR TO INSTALL A NEW 4" EMT FOR COMMUNICATION CABLING BERWEEN THIS IDF ROOM AND IDF ROOM ON THE 10TH FLOOR. PENETRATE EMT CONDUIT UP TO 5" INSIDE THE IDF ROOM. ALL FIRE RATED WALL PENETRATIONS TO BE FIRE PROOFED.
11. INSTALL ONE WALL MOUNTED, 54" A.F.F. DIRECT DEDICATED TELEPHONE LINE FOR NEW AUTO DIALER.
    SEE DETAIL IN THIS SHEET FOR AUTODIALER INFORMATION.

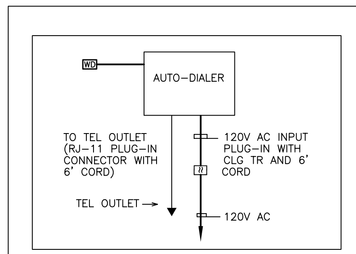
POWER PLAN NOTES

1. ALL CONVENIENCE POWER AND COMPUTER BRANCH CIRCUITS SHALL BE CONNECTED TO EXISTING 120/208V, PANEL 'P4', 'P7'.
2. ALL DATA POWER OUTLETS SHALL BE RED COLOR. PROVIDE SEPARATE EQUIPMENT GROUND WIRE, MINIMUM # 12 WITH EACH CIRCUIT.
3. COMPLETELY REMOVE ALL EXISTING UNUSED CIRCUITS ALL THE WAY BACK TO PANELS.
4. ALL NEW WORK SHALL MATCH EXISTING BUILDING STANDARDS, AND SHALL BE CARRIED OUT IN STRICT COMPLIANCE OF N.E.C., B.O.C.A., RULES AND REGULATIONS OF BUILDING AND AUTHORITIES HAVING JURISDICTION.
5. LOCATION & DIMENSIONS OF ALL OUTLETS, DEVICES ETC. SHALL BE AS PER ARCHITECT'S DRAWINGS.
6. COLOR, TYPE & FINISH OF ALL OUTLETS, DEVICES & FACE PLATES SHALL BE AS APPROVED BY THE ARCHITECT, EXCEPT RED COLOR FOR COMPUTER RECEPTACLES AND GRAY COLOR FOR DEDICATED RECEPTACLES. ALL FACE PLATES COLOR BY ARCHITECT.
7. PRIOR TO SUBMITTING HIS BID THIS CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS AND INFORM THE ARCHITECT/ENGINEER OF ANY DISCREPANCY BETWEEN THESE DRAWINGS AND THE EXISTING CONDITIONS, AND INCLUDE IN HIS BID TO CORRECT THE SAME AS DIRECTEDÙBS' IS NOT RESPONSIBLE FOR ADDITIONAL COSTS RESULTING FROM VERIFIABLE EXISTING CONDITIONS DISCOVERED AFTER CONTRACT HAS BEEN AWARDED.
8. ANY WORK INVOLVING LOUD NOISES (DRILLING, HAMMERING, ETC.) THAT WOULD DISTURB THE BUILDING'S TENANTS, SHALL BE CONDUCTED AFTER–HOURS, WITH OUT EXTRA CHARGE TO 'UBS'.

GUIDELINE CHART TO COMBINE CAT6 SHIELDED FTP CABLE IN HORIZONTAL CONDUITS WITH NO MORE THAN TWO 90° BENDS

CONDUIT SIZE (INCHES)	NO. OF CAT 5 CABLES @ 40% FILL
1"	(1) 4–PACK (4 CABLES)
1–1/4"	(2) 4–PACKS (8 CABLES)
1–1/2"	(3) 4–PACKS (12 CABLES)
2"	(4) 4–PACKS (16 CABLES)
3"	(10) 4–PACKS (40 CABLES)
4"	(18) 4–PACKS (72 CABLES)

NOTES:
1. COORDINATE QUANTITY OF CAT 5 CABLES REQUIRED AT EACH DATA DROP LOCATION WITH CABLE VENDOR.
2. WHEN USING FLEXIBLE METALLIC CONDUIT (FMC), INCREASE THE CONDUIT SIZE BY 1/4". FMC MAY BE USED @ LOCATIONS WHERE EMT CANNOT BE USED DUE TO SPACE CONSTRAINTS. PERMISSION FOR USE IS REQUIRED.



EQUIPMENT ROOM TEMPERATURE ALARM AND AUTO DIALER SCHEMATIC WIRING DIAGRAM

NOTES :
1. FURNISH AND INSTALL ONE PHONETICS INC. (PHONE # 610–558–2700), "SENSAPHONE 400" AUTO–DIALER
   ELECTRICAL CONTRACTOR SHALL PROVIDE 400 SERIES DESKTOP MONITORING SYSTEM WITH BUILT IN TEMPERATURE SENSOR AND BATTERY BACK–UP. 4 DRY CONTACTS FOR USER SELECTED INPUTS. ELECTRICAL CONTRACTOR SHALL SUPPLY AND INSTALL WATER LEAK SENSOR #FGD–00013.
2. ELECTRICAL CONTRACTOR SHALL PROVIDE WALL MOUNTED DEDICATED TELEPHONE OUTLET FOR AUTO DIALER AND 20A DUPLEX RECEPTACLE POWERED FROM NEAREST 120V GENERAL RECEPTACLE CIRCUIT.
3. ELECTRICAL CONTRACTOR SHALL MAKE ALL CONNECTIONS, SET MAXIMUM TEMPERATURE LIMIT OF 80°F AND PROGRAM THE SYSTEM AS FOLLOWS :
   DIAL–OUT # 1 TO 'HVAC' SERVICE CONTRACTOR.
   DIAL–OUT # 2 TO BRANCH MANAGER.
   DIAL–OUT # 3 TO OPERATIONS MANAGER.
4. ALL WIRING IN E.M.T CONDUIT, MINIMUM 1/2"C. TYPE OF WIRES AS PER MANUFACTURER'S REQUIREMENTS.

UBS

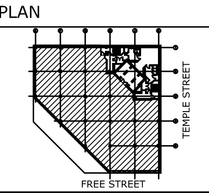
REVISIONS

NO.	DATE	DESCRIPTION

NO.	DATE	COPIES	TO WHOM
2	07.13.07		ISSUE FOR BID
1	07.13.07		ISSUE FOR PERMIT

ISSUE

KEY PLAN



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PROJECT NUMBER	7th FL. POWER &COMM. PLAN
SCALE 1/8"=1'–0"	UBS ONE CITY CENTER PORTLAND, ME 04101
DATE 07.13.07	
PROJECT MANAGER	
PROJECT ARCHITECT	
DRAWN BY RE	E-2.7
CHECKED BY GB	
CADD FILE	