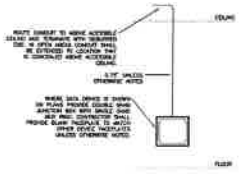
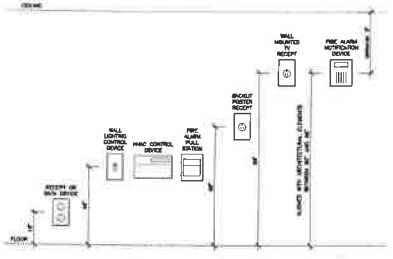
ELECTRICAL SYMBOLS

ABBREVIATIONS:

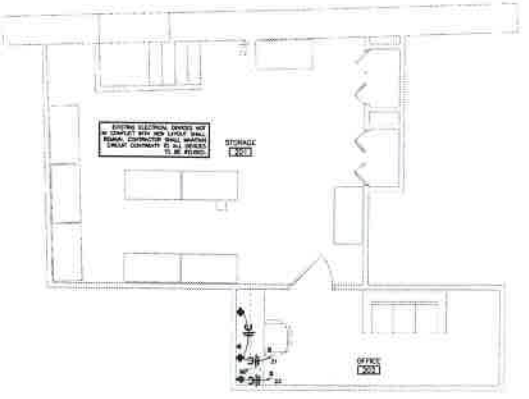
"AC" or "-"	THESE LETTERS ADJACENT TO ANY SYMBOL INDICATES DEVICE BOTTOM TO BE MOUNTED 6" ABOVE COUNTERTOP BACKSPLASH
"WP"	THESE LETTERS ADJACENT TO ANY SYMBOL INDICATES WEATHER-PROOF ENCLOSURE
"WPX"	THESE LETTERS ADJACENT TO ANY SYMBOL INDICATES WEATHER-PROOF W+USE ENCLOSURE
"XX"	DIMENSIONS ADJACENT TO ANY SYMBOL INDICATES MOUNTING HEIGHT TO CENTERLINE OF DEVICE
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
OFCI	OWNER FURNISHED CONTRACTOR INSTALLED



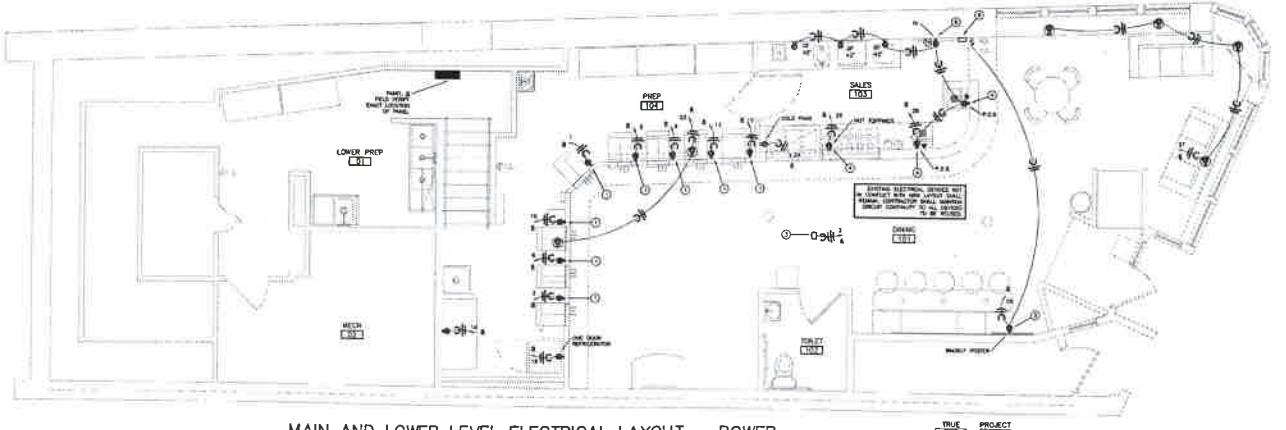
3 DATA ROUGH IN DETAIL
NO SCALE



2 DEVICE MOUNTING HEIGHT DETAIL
NO SCALE



UPPER LEVEL ELECTRICAL LAYOUT – POWER
Scale: 1/4" = 1'-0"



MAIN AND LOWER LEVEL ELECTRICAL LAYOUT – POWER
Scale: 1/4" = 1'-0"

KEYNOTES

1. MENU BOARD RECEPTACLE FOR YOGURT MACHINE. VERIFY EXACT REQUIREMENTS WITH EQUIPMENT SUPPLIER.
2. NOT USED
3. DUAL 2-POLE, NEMA-RATED NEMA 30 DISCONNECT SWITCH ON WALL FOR CHILLER. COORDINATE INSTALLATION LOCATION WITH CHILLER PROVIDER.
4. METAL DEVICE BELOW COUNTER IS ALUMINUM.
5. PROVIDE RECESSED SINGLE GANG RECEPTACLE FOR BOOST MOTOR.
6. PROVIDE RECESSED SINGLE GANG RECEPTACLE FOR TV.
7. NOT USED
8. NOT USED
9. REMOTE YOGURT MACHINE STATUS PANEL. COORDINATE LOCATION WITH YOGURT PROS TO ROUGH-IN.

GENERAL NOTES

1. THE DRAWINGS ARE DIAGRAMATIC AND SHALL NOT BE SCALED. SEE ARCHITECTURAL PLANS FOR DIMENSIONS.
2. ALL WIRING SHALL BE IN COMPLIANCE WITH THE APPLICABLE CODE SHOWN ON THE TITLE SHEET AND ANY ORDINANCES ADOPTED BY THE CITY OR COUNTY, AND SHALL CONFORM TO THE REQUIREMENT OF THE LOCAL POWER COMPANY.
3. CONTRACTOR SHALL PROVIDE ALL PERMITS PERTAINING TO HIS SCOPE OF WORK INCLUDE ALL FEES AND COSTS INTO BID.
4. THE CONTRACTOR SHALL INSPECT THE JOB SITE AND REVIEW THE PLANS. ANY DEVIATIONS, ERRORS OR OMISSIONS SHALL BE BROUGHT TO THE ATTENTION OF THE OWNER PRIOR TO BIDDING. REQUESTS FOR ADDITIONAL FUNDS FOR EXTRA WORK WILL NOT BE HONORED WITHOUT PRIOR WRITTEN APPROVAL FROM THE OWNER.
5. THE ELECTRICAL CONTRACTOR SHALL SUPPLY ALL PERMITS, LABOR, MATERIAL, AND EQUIPMENT FOR A COMPLETE JOB IN ACCORDANCE WITH THE PLANS AND IN COMPLIANCE WITH THE NATIONAL ELECTRICAL CODE, AS SHOWN ON THE TITLE SHEET, AND OTHER STATE AND LOCAL CODES AND ORDINANCES.
6. THE ELECTRICAL CONTRACTOR SHALL COORDINATE HIS/HER WORK WITH OTHER CONTRACTORS AND TRADES TO PREVENT CONFLICTS CAUSING UNNECESSARY EXPENSES OR DELAYS IN THE INSTALLATION OF WORK UNDER OTHER CONTRACTS.
7. ALL MATERIALS SHALL BEAR THE INSPECTION LABEL OF THE NATIONAL BOARD OF FIRE UNDERWRITERS AND/OR UNDERWRITER LAB, INC.
8. ALL WIRING SHALL BE 600V COPPER RHW THHN INSULATION. ALL WIRING SHALL BE SIZED IN ACCORDANCE WITH NEC, AS SHOWN ON TITLE SHEET. BRANCH CIRCUIT WIRING SHALL BE #12 MIN.
9. ALL ELECTRICAL WIRING TO BE INSTALLED IN METAL CONDUIT SIZED IN ACCORDANCE WITH NEC, AS SHOWN ON TITLE. CONDUIT TYPES MC, FMC, LFMC, EMT, AND MC MAY BE USED AS APPROVED AND PERMITTED BY NEC AND LOCAL ORDINANCES. CONDUIT TYPES EMT AND RMC MAY BE USED AS APPROVED AND PERMITTED BY NEC AND LOCAL ORDINANCES FOR BELOW GRADE.
10. WIRING DEVICES (OR EQUAL TO):
    - 10.1. SINGLE POLE SWITCHES — HUBBELL CR1221
    - 10.2. THREE-WAY SWITCHES — HUBBELL CR1223
    - 10.3. DUPLEX RECEPTACLE — HUBBELL 5362W
    - 10.4. RECESSED RECEPTACLE — LEVITON 5266-I
    - 10.6. GFCI DUPLEX RECEP. — HUBBELL GF20SWA
11. DEVICE AND COVER PLATE FINISHES TO BE WHITE, UNLESS OTHERWISE NOTED BY ARCHITECT.
12. ALL OUTLET BOXES SHALL BE METALLIC.
13. SEE MOUNTING HEIGHT DETAIL FOR ALL DEVICE MOUNTING HEIGHTS.
14. HVAC CONTROL DEVICES AND WIRING SHALL BE PROVIDED BY MECHANICAL CONTRACTOR. INTERLOCKS AND CONDUIT SHALL BE PROVIDED BY ELECTRICAL CONTRACTOR. SEE MECHANICAL PLANS FOR LOCATION OF HVAC CONTROL DEVICES. COORDINATE INSTALLATION REQUIREMENTS WITH MECHANICAL CONTRACTOR.
15. THE ELECTRICAL CONTRACTOR SHALL SUPPLY ALL DISCONNECTS FOR HVAC EQUIPMENT.
16. SMOKE DETECTORS TO BE 110V WITH BATTERY BACKUP AND WIRED TO ALL SOUND ALARM WHEN ONE IS ACTIVATED. SYSTEM TO COMPLY WITH NFPA-72, AND LOCAL ORDINANCES.
17. PROVIDE A TYPED CIRCUIT DIRECTORY FOR EACH PANEL LISTING THE CIRCUIT NUMBER AND EQUIPMENT SERVED.
18. AT EACH DATA DEVICE SHOWN ON FIVE PLANS, PROVIDE 4 CAT 6 CABLES FROM DEVICE TO TERMINATION POINT IN OFFICE AREA. COORDINATE EXACT TERMINATION LOCATION WITH OWNER.
19. ALL TELEPHONE AND DATA WIRING SHALL BE IN CONDUIT OR SHALL BE PLENUM RATED.
20. CONTRACTOR SHALL PROVIDE NEW LAMPS IN ALL FIXTURES AT JOB COMPLETION.
21. CONNECT UNSWITCHED HOT TO ALL EMERGENCY LIGHT FIXTURES FOR MONITORING OF UTILITY POWER.
22. ALL WIRING AND CONDUIT IN PLENUMS SPACE SHALL BE CONCEALED, UNLESS NOTED OTHERWISE.
23. CONTRACTOR SHALL PROVIDE A ONE YEAR WARRANTY ON ALL MATERIAL, EQUIPMENT AND WORK PERFORMED.
24. GROUNDING AND BONDING SHALL BE IN COMPLIANCE WITH ARTICLE 250 OF THE NEC, LATEST EDITION. GROUND SIGNATURE SHALL BE CARRIED TO THE SAME SOURCE GROUNDING SYSTEM. ALL BRANCH CIRCUITS SHALL HAVE A GROUNDING CONDUCTOR.
25. APPROVED MANUFACTURERS:
    - 25.1. PANELBOARDS AND DISCONNECTS
      - 25.2. SQUARE D
      - 25.3. G.E.
      - 25.4. SIEMENS
      - 25.5. CUTLER HAMMER
    - 26. WIRING DEVICES
      - 26.1. HUBBELL
      - 26.2. LEVITON
      - 26.3. PASS & SEYMOUR
27. CONTRACTOR TO FIRE STOP ALL FIRE RATED FLOOR/CEILING AND WALL PENETRATIONS USING A 3M FIRE STOP SYSTEM. ALL WORK SHALL TO BE INSTALLED IN ACCORDANCE WITH MANUFACTURERS INSTRUCTIONS AND AS CLOSE TO THE TYPE RATING OF THE CONSTRUCTION PENETRATED. THE MINIMUM ANNULAR SPACE BETWEEN THE PENETRATING ITEM AND THE OPENING SHALL BE 1/4".
28. DRY TYPE TRANSFORMER SHALL BE AS MANUFACTURED BY SQUARE D TRANSFORMER. PROVIDE MOUNTING BRACKET AS REQUIRED FOR LOCATION SHOWN ON PLANS. TRANSFORMER SHALL BE EQUIPPED WITH ALUMINUM WINDINGS.
29. OCCUPANCY SENSORS
    - 29.1. ACCEPTABLE MANUFACTURERS
      - 29.1.1. LEVITON
      - 29.1.2. WATT STOPPER
      - 29.1.3. HUBBELL
      - 29.1.4. COOPER
    - 29.1. LINE VOLTAGE CEILING OCCUPANCY SENSOR
      - 29.1.1. OCCUPANCY SENSOR SHALL BE DUAL TECHNOLOGY WITH ADJUSTABLE LIGHT SENSOR
      - 29.1.2. SENSOR SHALL BE RATED FOR 180 VA, 277 VOLTS.
      - 29.1.3. SENSOR SHALL BE RATED FOR 1200 VA.
      - 29.1.4. RESPONSE TIME SHALL BE ADJUSTABLE FROM 5 TO 30 MINUTES.
      - 29.1.5. UNIT SHALL BE RATED FOR 120, 208, 277 VOLTS.
    - 29.2. LINE VOLTAGE WALL SWITCH OCCUPANCY SENSOR
      - 29.2.1. OCCUPANCY SENSOR SHALL BE DUAL TECHNOLOGY TYPE
      - 29.2.2. SENSOR SHALL BE RATED FOR 1200 VA.
      - 29.2.3. SENSOR SHALL BE RATED FOR 1 HP.
      - 29.2.4. IR RANGE OF 600 SQUARE FEET.
    - 29.3. LOW VOLTAGE CEILING OCCUPANCY SENSOR
      - 29.3.1. OCCUPANCY SENSOR SHALL BE DUAL TECHNOLOGY TYPE WITH ADJUSTABLE LIGHT SENSOR.
      - 29.3.2. INFRARED RANGE SHALL BE 1000 SQUARE FEET.
    - 29.4. POWER PACK
      - 29.4.1. CONTACTS SHALL BE RATED FOR 15HP AT 277 AS REQUIRED.
      - 29.4.2. POWER PACK SHALL ACCEPT INPUT FROM LOW VOLTAGE WALL SWITCHES, OCCUPANCY SENSORS, DAYLIGHT SENSORS AND OTHER DEVICES SHOWN IN AREA OF POWER PACK
      - 29.4.3. POWER PACK SHALL BE RATED FOR MINIMUM LOAD OF 1500 VA.

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Revisions

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Reviewed By: BRP
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orangeleaf

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Electrical Layout - Power, Details and Notes

CONSTRUCTION DOCUMENTS
Sheet Number
E1.1