



State of Utah

JON M. HUNTSMAN, JR.  
Governor

GARY R. HERBERT  
Lieutenant Governor

Department of Administrative Services

KIMBERLY K. HOOD  
Executive Director

Division of Facilities Construction and Management

DAVID G. BUXTON  
Director

## ADDENDUM #2

Date: September 10, 2007

To: Contractors

From: Rick James, Project Manager, DFCM

Reference: Testing & Assessment Center Remodel – Construction Trades Bldg.  
Salt Lake Community College – Redwood Road Campus – Salt Lake City, Utah  
DFCM Project No. 07033660

Subject: **Addendum No. 2**

Pages	Addendum	1	page
	<u>Architects Addendum</u>	<u>22</u>	<u>pages</u>
	Total	23	pages

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**Note: This Addendum shall be included as part of the Contract Documents. Items in this Addendum apply to all drawings and specification sections whether referenced or not involving the portion of the work added, deleted, modified, or otherwise addressed in the Addendum. Acknowledge receipt of this Addendum in the space provided on the Bid Form. Failure to do so may subject the Bidder to Disqualification.**

- 1.1 **SCHEDULE CHANGES** – There are no changes to the Project Schedule.
- 1.2 **GENERAL** – HFS Architects – Clarifications and Drawings.



**HFS ARCHITECTS**

329 S. Rio Grande  
Salt Lake City, Utah 84101  
801-596-0691 • Fax: 596-0693 • [www.hfsa.com](http://www.hfsa.com)

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**Addendum No. 01**

Project: Testing & Assessment Center Remodel  
Address: Redwood Campus  
City, State: Salt Lake City, Utah  
Owner: DFCM

Date: *06 September 2007*  
Project No.: 0719.01  
Owner No.: 07033660  
Agency: Salt Lake Community College

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**To all Bidders of Record:**

This addendum forms a part of the contract documents and modifies the original specifications and drawings as noted below. Items of general information are included without reference to the plans and specifications. Revisions to the specifications are referenced by page number and paragraph heading on that page. Revisions to the drawings are reference by the drawing number. Unless otherwise stated, any changes herein offset only the specific drawings, words, or paragraphs mentioned, and the balance of the drawings and specifications remain in full force. Acknowledge receipt of this addendum in the space provided on the Bid form. Failure to do so will subject the Bidder to disqualification.

**ARCHITECTURAL ADDENDUM**

Item No.	Section or Sheet No.	Description
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**General Items:**

1 -1	Clarification	Fire sprinklers will have to be modified in the new spaces to meet code requirements, see the attached Mechanical Addendum.
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**Specifications Items:**

1 -2	08711-14	Revise the following: Closer finish from AL to LTBRZ Kickplate finish from 32D to 612 Stop finish from 32D to 612 Power Transfer finish from SP28 to SP313
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**Drawing Items:**

1 -3	AD101	Clarification: There is approximately 4,796 SF of existing carpet to be removed.
1 -4	AD101	Clarification: There is approximately 786 SF of existing sheet vinyl to be removed.
1 -5	AD101	Clarification: The north-south corridor wall and the east-west wall on the south end of the corridor is 8" concrete, not masonry.
1 -6	AD101	Partition Legend: Revise the eighth partition description "NEW 3-5/8" METAL STUD WALL W/ 5/8" GYPSUM BOARD ON ONE SIDE ..." to read "NEW 3-5/8 METAL WALL W/ 5/8" GYPSUM BOARD ON BOTH SIDES, CONTINUOUS

TO STRUCTURE ABOVE W/ RESILIENT CHANNEL & SOUND BATT ON ONE SIDE, SEE DETAIL B4/AE501 FOR DEFLECTION"

- 1 -7 AD101 Partition Legend: Revise the ninth partition description "NEW 8" CMU ..." to read "NEW 8" CMU WALL INFILL TO BE TOOTHED INTO THE EXISTING MASONRY WALL".
- 1 -8 AD101 Add the following note: "REMOVE THE EXISTING 3'-10" W BY 7'-4" H GYPSUM BOARD INFILL IN THE 8" CONCRETE CORRIDOR WALL, REPLACE WITH NEW 8" CMU INFILL.
- 1 -9 AE101 Clarification the north-south corridor wall and the east-west wall on the south end of the corridor is 8" concrete, not masonry.
- 1 -10 AE101 Partition Legend: Revise the eighth partition description "NEW 3-5/8" METAL STUD WALL W/ 5/8" GYPSUM BOARD ON ONE SIDE ..." to read "NEW 3-5/8 METAL WALL W/ 5/8" GYPSUM BOARD ON BOTH SIDES, CONTINUOUS TO STRUCTURE ABOVE W/ RESILIENT CHANNEL & SOUND BATT ON ONE SIDE, SEE DETAIL B4/AE501 FOR DEFLECTION"
- 1 -11 AE101 Partition Legend: Revise the ninth partition description "NEW 8" CMU ..." to read "NEW 8" CMU WALL INFILL TO BE TOOTHED INTO THE EXISTING MASONRY WALL".
- 1 -12 AE101 Clarification: The south and west concrete walls in the corridor are to be repainted.
- 1 -13 AE501 Detail B5: Revise note "1/2"CONDUIT COMPRESSION BRACE FULL HT., TYP." to read "3/4" CONDUIT COMPRESSION BRACE FULL HT., TYP."
- 1 -14 AE501 Detail B2: Revise window rough opening size from 8'-0" wide by 4'-4" high to 5'-0" wide by 4'-4" high. Provide wire glass glazing and maintain vertical mullion.
- 1 -15 AE601 Detail A4 DOOR SCHEDULE: Change door 010B UL Label to 20 minutes. Change doors 010A and 033 threshold detail to C1/AE601.
- 1 -16 AE601 Add the attached detail B1/AE601, wall to window mullion detail. Detail applies to two new walls.
- 1 -17 AE601 Add the attached detail C1/AE601, threshold detail.

**Prior Approvals:**

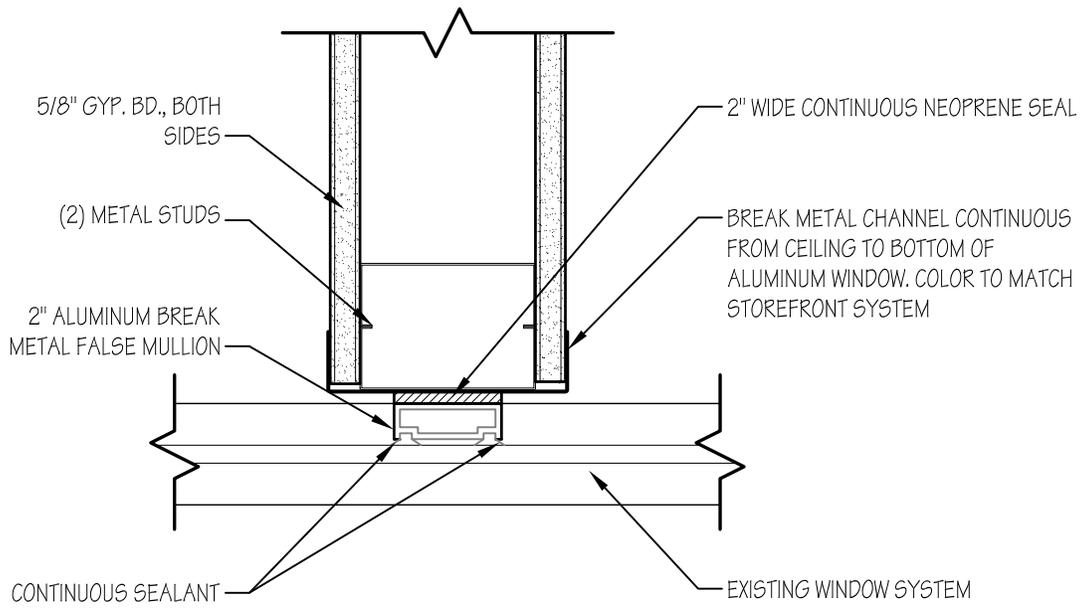
- 1 -18 06402 Approved Manufacturers: Wasatch Cabinet, Lloyds, Boswell-Wasatch, Hurco Design, Thompson & Sons.

**Attachments:**

- 1 -19 2 Pages Architectural Details (2).

1 -20 9 Pages Mechanical Addendum.

1 -21 8 Pages Electrical Addendum.

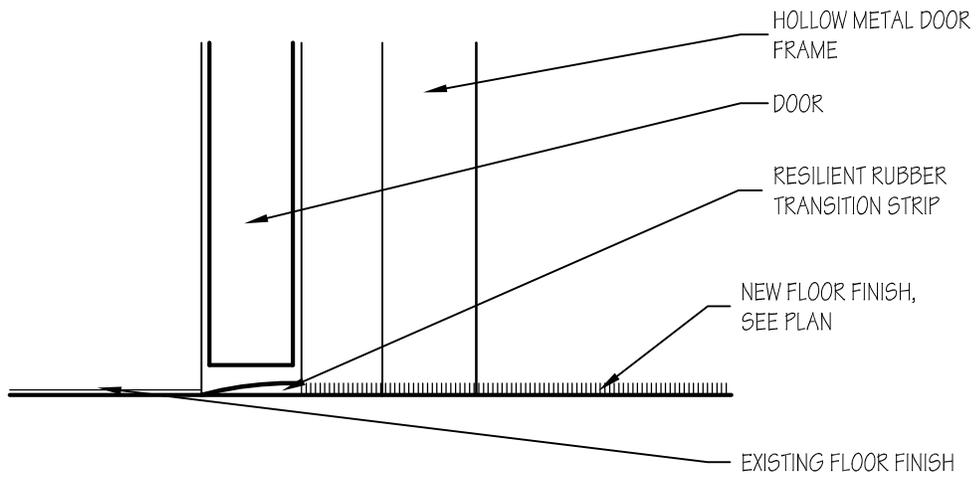


B1

WALL TO MULLION DETAIL

3"=1'-0"





C1

# THRESHOLD DETAIL

3"=1'-0"

# ADDENDUM

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Project Name: SLCC Testing & Assessment Center

Addendum No.:1

WHW Project # 07028

Date: 09-06-07

From: WHW Engineering Inc  
1354 East 3300 South Suite 200  
Salt Lake City, Utah 84106  
Phone (80) 466-4021 Fax (801) 466-8536

To: All Bidders

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This Addendum forms and becomes a part of the Contract Documents and modifies the original Bidding Documents dated 08-14-07 as noted below. Acknowledge receipt of this Addendum in the space provided on the Bid Form. Failure to do so may subject the Bidder to disqualification.

This Addendum consists of 9 pages.

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**I - CHANGES TO PRIOR ADDENDA: N/A**

**II - CHANGES TO BIDDING REQUIREMENTS: N/A**

**III - CHANGES TO AGREEMENT & OTHER CONTRACT FORMS: N/A**

**IV - CHANGES/CLARIFICATIONS TO CONDITIONS OF THE CONTRACT: N/A**

**V - CHANGES/CLARIFICATIONS TO SPECIFICATIONS: Add Fire sprinkler section 15300. See attached.**

**VI - CHANGES/CLARIFICATIONS TO DRAWINGS:**

ME101:

1. Provide access panel to inlet side of existing and new heating coils within existing ductwork to allow for initial cleaning and inspection along with future access.
2. Remove thermostat for unit heater being removed. Cap pneumatic line above the ceiling. Provide wall plate.
3. Provide 2 new fire smoke dampers in existing duct at the south end of the computer testing lab 010. Provide 1 damper at the penetration to the corridor, and 1 at the penetration to testing lab 033H. Coordinate with division 16 to provide power to new fire smoke dampers. Field verify exact size and location prior to ordering.

PD101:

1. Demo waste and water from existing dark room sink. Cap water above ceiling; remove waste piping back to main line.
2. Demo medical gas within space. Shut-off valves located at x-ray room.
3. Adjust fire sprinkler heads to protect new space layout. Fire sprinkler modifications shall comply with performance specification section 15300, nfpa 13, nfpa 72 as well as state of utah, Salt Lake Community College, and ada standards.

PRIOR APPROVALS

THE FOLLOWING ITEMS, AS SUBMITTED, ARE CONSIDERED, IN GENERAL AND IN NAME ONLY, AS EQUAL TO THOSE ITEMS SPECIFIED. THIS REVIEW DOES NOT RELIEVE THE CONTRACTOR OR SUPPLIER OF THE RESPONSIBILITY OF CONFORMING TO THE DRAWINGS AND SPECIFICATIONS, NOR DOES IT RELIEVE THE CONTRACTOR OF THE REQUIREMENTS OF THE SPECIFICATIONS FOR COORDINATION WITH OTHER TRADES. ALL DIMENSIONS SHALL BE CONFIRMED AND CORRELATED AT THE JOBSITE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING EXISTING CONDITIONS AND THE SUITABILITY OF "EQUAL" PRODUCTS FOR THE SPECIFIED APPLICATION.

Description

Manufacturer

15761 Air coils - Air coils

Temtrol

15820 Duct Accessories - Volume Dampers

Greenheck

SECTION 15300 - FIRE SPRINKLER SYSTEM

PART 1 - GENERAL

This project includes the relocation of the existing sprinklers in the areas being remodeled, and providing new heads as needed for the remodeled space.

1.1 WORK INCLUDED

- A. Fire sprinkler contractor shall provide modifications to the existing fire sprinkler system per the requirements of this performance specification, including design, submittals, and shop drawings by a NICET certified designer.
- B. Remodeled areas of existing building shall have the existing fire sprinkler system modified to provide protection as necessary. See Architectural drawings for definition of these areas. Work includes, but is not limited to:
  - 1. Design, drawings, and, if necessary, hydraulic calculations.
  - 2. Materials, equipment, and devices.
    - a. Pipe, fittings, hangers, seismic braces.
    - b. Sprinklers, escutcheons, signs.
    - c. All other materials required for complete installation.
  - 3. Fabrication, installation, and testing.
  - 4. Permits, fees, and documentation.

1.2 RELATED WORK

- A. Painting.
- B. Electrical Material and Methods.

1.3 WORK NOT INCLUDED

- A. Fire extinguishers and cabinets.
- B. Painting.
- C. Wiring of electrical and alarm devices.

1.4 SYSTEM DESCRIPTION

- A. Interior - Remodeled Areas: Relocate and/or add heads as required to the existing system in order to provide coverage in the areas included in this project.

1. Relocate sprinklers as required within the parameters set forth in NFPA 13. Pipe sizing shall match the existing piping.
  - a. An existing 1" outlet may be utilized to supply (1) sprinklers maximum.
  - b. Mechanical tees may be utilized to run additional lines, as necessary.
    - 1) A flexible grooved coupling shall be installed on the new branch within 1 ft of the mechanical tee.
  - c. Hangers and bracing shall be installed as required by NFPA 13 on new systems.

#### 1.5 QUALITY ASSURANCE

- A. Materials, devices, and equipment shall be Underwriters Laboratories listed or Factory Mutual approved for use in fire protection systems.
- B. Designer shall be a State of Utah Registered Fire Protection Engineer or a NICET Certified Engineering Technician (Level III or Level IV).
- C. Submittals and Shop Drawings shall be stamped by licensed designer.
- D. Installer shall be a licensed contractor regularly engaged in the installation of fire sprinkler systems in commercial type buildings.
- E. Fire sprinkler work shall comply with NFPA 13, NFPA 72, as well as the State of Utah, SLCC, and ADA standards.

#### 1.6 REFERENCES

- A. NFPA (National Fire Protection Association) 13, "Installation of Sprinkler Systems," 2002.
- B. NFPA 24, "Standard for the Installation of Private Fire Service Mains and Their Appurtenances," 2002.
- C. IBC (International Building Code), 2006.
- D. IFC (International Fire Code), 2006.
- E. Underwriters Laboratories "Fire Protection Equipment Directory," latest edition.
- F. Factory Mutual Systems "Approval Guide," latest edition.

#### 1.7 SYSTEM DESIGN

- A. System shall be wet pipe.
- B. Design density and area of application.

1. Mechanical, Electrical, and Janitorial: Ordinary Hazard Group 1, 0.15 GPM/SQ FT over 1,500 SQ FT.
  2. Storage: Ordinary Hazard Group 2, 0.20 GPM/SQ FT over 1,500 SQ FT.
  3. All other areas: Light Hazard, 0.10 GPM/SQ FT over 1,500 SQ FT.
  4. Adjustments shall be made in the remote area for sloped ceilings and/or roof decks and for the use of quick response sprinkler heads throughout.
- C. Maximum coverage per sprinkler head:
1. Ordinary Hazard areas: 130 SQ FT.
  2. Light Hazard areas: 225 SQ FT.
  3. Extended coverage sprinklers shall be allowed when installed conforming to the individual listing of the sprinkler head.
- D. Vestibules: Provide dry barrel sprinklers to protect areas subject to temperatures less than 40 F.
- E. The design area shall be the hydraulically most remote rectangular area having a dimension parallel to the branch line equal to, or greater than, 1.2 times the square root of the area of sprinkler operation.
- F. Maximum velocity of water flow within piping: 20 FPS.
- G. Flow available:
1. Contractor shall perform all necessary flow tests and calculations.
  2. The contractor shall design the sprinkler system to the water supply indicated in the Engineer's Water Supply Analysis performed for the project, including all recommendations contained within the Analysis.
- H. Provide head guards on any sprinklers installed below 7 ft. above the floor and in areas where the heads are subject to physical damage.
- I. Sprinkler heads in areas with folding partitions, curtains, dividers, etc shall be located such that the spacing and clearance shall be maintained whether the partitions are open or closed.

## 1.8 SUBMITTAL

- A. All shop drawings and calculations shall bear the Nicet number and signature of the responsible Nicet Certified Technician or the stamp and signature of the responsible Registered Professional Engineer. Submittals without the proper signature will be returned without review.
- B. Submit to local and state Authorities Having Jurisdiction and obtain AHJ's approval, three copies each:
  1. Shop drawings.
  2. Hydraulic calculations.
  3. Copy of contract specification.
  4. Equipment catalog sheets for all major equipment.
- C. Submit to the Utah State Fire Marshal, three copies each:

## FIRE SPRINKLER SYSTEM

15300 - 3

1. Shop drawings.
  2. Hydraulic calculations.
  3. Copy of contract specification.
  4. Equipment catalog sheets for all major equipment.
  5. One copy of the Water Supply Analysis with date, time and temperature noted.
- D. Submit to Architect for review and Architect's acceptance prior to fabrication and installation, five copies each:
1. Shop drawings.
  2. Hydraulic calculations.
  3. Equipment catalog sheets for all major equipment.
  4. One copy of the water flow test with date, time and temperature noted.
- E. Upon completion of installation submit to Architect two copies each:
1. NFPA 13, "Contractor's Material & Test Certificate for Aboveground Piping."
  2. NFPA 13, "Contractor's Material & Test Certificate for Underground Piping."
  3. As-built shop drawings with designer's signature and certification number.

#### 1.9 WARRANTY

- A. Materials, equipment, and workmanship shall be free from defects for 12 months from the "Date Left in Service with All Control Valves Open," shown on "Contractor's Material and Test Certificate." If any Work is found to be defective, Contractor shall promptly, without cost to Owner, and in accordance with Owner's instructions, either correct such defective Work, or if Owner has rejected it, remove it from the site and replace it with non-defective work. Submit two copies of Warranty Certificates to Architect.

### PART 2 - PRODUCTS

#### 2.1 ACCEPTABLE MANUFACTURERS

- A. Sprinkler equipment, heads and devices:
1. Central, Grinnell, Reliable, Star, Victaulic and Viking.
- B. Backflow preventer:
1. Ames, Watts

#### 2.2 PIPE AND TUBE

- A. Interior:

### FIRE SPRINKLER SYSTEM

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1. Ferrous piping, ASTM A795, ANSI/ASTM A53, ASTM A135, ANSI B36-10M, UL CRR (Corrosion Resistance Ratio) minimum 1.0, and copper tube, ASTM B251, Type L or M.

## 2.3 FITTINGS

### A. Interior.

1. Cast iron threaded, ANSI B16.4.
2. Cast iron flanged, ANSI B16.1.
3. Malleable iron threaded, ANSI B16.3.
4. Forged steel fittings, socket welded and threaded, ANSI B16.11.
5. Copper, ANSI B16.22, B16.18. Joints for connection of copper tube shall be brazed or soldered.
6. Other types of fittings may be used, but only those investigated and listed for fire sprinkler service.
7. Plain end couplings, saddle couplings, and clamp type couplings are not acceptable.

## 2.4 HANGERS

- A. Hangers shall conform to the minimum requirement of NFPA 13. A detail of each type of hanger shall be shown on the shop drawings and calculations for trapeze type hangers shall be provided with the hydraulic calculations.

## 2.5 SEISMIC FITTINGS AND BRACES

- A. Seismic bracing shall be installed per the requirements of NFPA 13. Calculations for the seismic bracing shall be provided including all piping within the "area of influence" as described in NFPA 13.
- B. Flexible connections shall be provided at the top and bottom of the system riser and at other locations as described in NFPA 13.

## 2.6 SPRINKLER HEADS

- A. Areas without ceilings: standard upright or pendent, quick response, factory bronze, ordinary temperature.
- B. Areas subject to freezing: dry pendent or sidewall, chrome finish, intermediate temperature, with recessed chrome canopy.
- C. Sprinklers of intermediate and high temperature ratings in specific locations as required by NFPA 13.
- D. Spare heads in representative proportion to types installed and one head wrench for each type sprinkler.
  1. Total quantity of spare heads shall be per the requirements of NFPA 13.
  2. Spare heads to be contained in a wall mounted cabinet mounted adjacent to the riser.

2.7 VALVES

- A. Drain valves as required by the design and as indicated in NFPA 13.
- B. OS&Y Gate Valve with supervisory switch.
- C. Butterfly Valve with integral supervisory switch.
- D. Four inch swing check valve for FDC.
- E. One half-inch ball drip for FDC.

2.8 ALARM DEVICES

- A. Vane Type Water Flow Switch with retard (DPDT).
- B. Valve supervisory switch (SPDT).
- C. 10" Weatherproof Electric Bell.

PART 3 - EXECUTION

3.1 INSPECTION

- A. Inspect job site prior to fabricating materials. Coordinate and sequence installation with the progress of other mechanical and structural systems and components.

3.2 INSTALLATION

- A. Install systems in compliance with methods detailed in NFPA 13 and NFPA 24, including seismic requirements for Area 1, maximum potential for earthquake damage.
- B. Sprinkler heads shall be centered in 2' x 2' ceiling tiles and shall be centered in the 2' dimension and at the quarter, half, or three-quarter point in 2' x 4' ceiling tiles.
- C. Where pipes pass through fire rated walls, partitions, ceilings and floors, maintain the fire-rated integrity with listed sealers and materials.
- D. Provide chrome-plated escutcheons where exposed pipe passes through walls, ceilings, or other building components.

3.3 FIELD QUALITY CONTROL

**FIRE SPRINKLER SYSTEM**

**15300 - 6**

- A. Obtain permits and post bonds as required by state and local AHJ's (Authorities Having Jurisdiction).
- B. Inform AHJ's of job progress. Request presence of AHJ's, perform tests and document results using Contractor's Material and Test Certificates.
  - 1. Existing piping may be "blanked-off" when testing new piping. This contract does not require the testing of work installed by others.

#### 3.4 DISINFECTION

- A. Introduce dosage of 50-ppm chlorine in underground and overhead piping. During the contact period open and close all system valves several times. At end of 24-hour retention period at least 10 ppm shall remain throughout the piping.
- B. At end of retention period, flush system until residual chlorine is reduced to less than 1.0 ppm.

#### 3.5 CLEANING

- A. Remove oil, scale, debris, and foreign substances from interior and exterior of devices, equipment, and materials prior to installation.
- B. Upon job completion, remove tools, surplus materials and equipment. Leave all areas broom clean.

#### 3.6 ACCEPTANCE

- A. Acceptance of installation is subject to final inspection and approval by:
  - 1. Architect or his designated representative.
  - 2. Local Building Department and Fire Marshal.
  - 3. Utah State Fire Marshal's Office.

END OF SECTION 15300

**TESTING & ASSESSMENT CENTER  
REMODEL**

SALT LAKE COMMUNITY COLLEGE  
REDWOOD ROAD CAMPUS  
SALT LAKE CITY, UTAH

**DFCM PROJECT NO. 07033660**

September 5, 2007

ELECTRICAL ADDENDUM ITEMS

1. REMOVE ELECTRICAL CIRCUIT FOR CABINET HEATER.
  - A. Remove existing circuit to existing cabinet heater to be removed at north end of Corridor 001 and reconnect circuit to existing cabinet heater in stairway as shown on attached Partial Power Demolition Plan, Sheet ED101a.
2. ADD MULTI-OUTLET ASSEMBLIES IN COMPUTER TESTING LAB 010.
  - A. Add surface raceway systems and surface multi-outlet assemblies with receptacles, circuits, and tele/data outlets on south wall of Computer Testing Lab 010 for printers as shown on attached Partial Power Plan, Sheet E-101a.
  - B. Add 1P-20A circuit breakers in Panel 'CP' for additional circuits as shown on attached Panel 'CP' Schedule, Sheet E-601a.
3. ADD RECEPTACLE FOR OWNER FURNISHED UPS IN IT OFFICE 033J.
  - A. Provide new NEMA 14-30 Receptacle and branch circuit for Owner furnished UPS in IT Office 033J as shown on attached Partial Power Plan, Sheet E-101a. Verify receptacle configuration with Owner prior to ordering.
  - B. Provide new 2P-30A breaker in existing Panel 'DD1' as shown on attached Panel 'DD1' schedule, Sheet E-601b.
4. ADD RECEPTACLE AND CIRCUIT IN WORKROOM 033F.
  - A. Add double duplex receptacle and revise in Workroom 033F for copier and microwave oven, and revise circuiting as shown on attached Partial Power Plan, Sheet E-101b.
  - B. See revised Panel 'DD2' schedule, Sheet E-601c, for revised circuit information.
5. ADD RECEPTACLE, TELE/DATA OUTLET AND CIRCUIT IN GED TESTING 033C.
  - A. Add receptacles with branch circuit and tele/data outlet in GED Testing 033C for office work station, and revise circuiting as shown on attached Partial Power Plan, Sheet E-101b.
  - B. See revised Panel 'DD2' schedule, Sheet E-601c, for revised circuit information.
6. SUBMITTALS FOR PRIOR APPROVAL
  - A. Listing herein of the following equipment submitted for prior approval indicates that the brand name and general characteristics are acceptable, but does not relieve the Contractor of the responsibility of providing equipment and accessories as specified in the Contract Documents unless specific mention of the departure was made in the submittal and acknowledged in writing by the Architect and/or Engineer.

<u>ITEM</u>	<u>MANUFACTURER</u>	<u>CAT. NO.</u>
Fixture F-1	Day-Brite	2AVG332-PMW-277-1/21EB

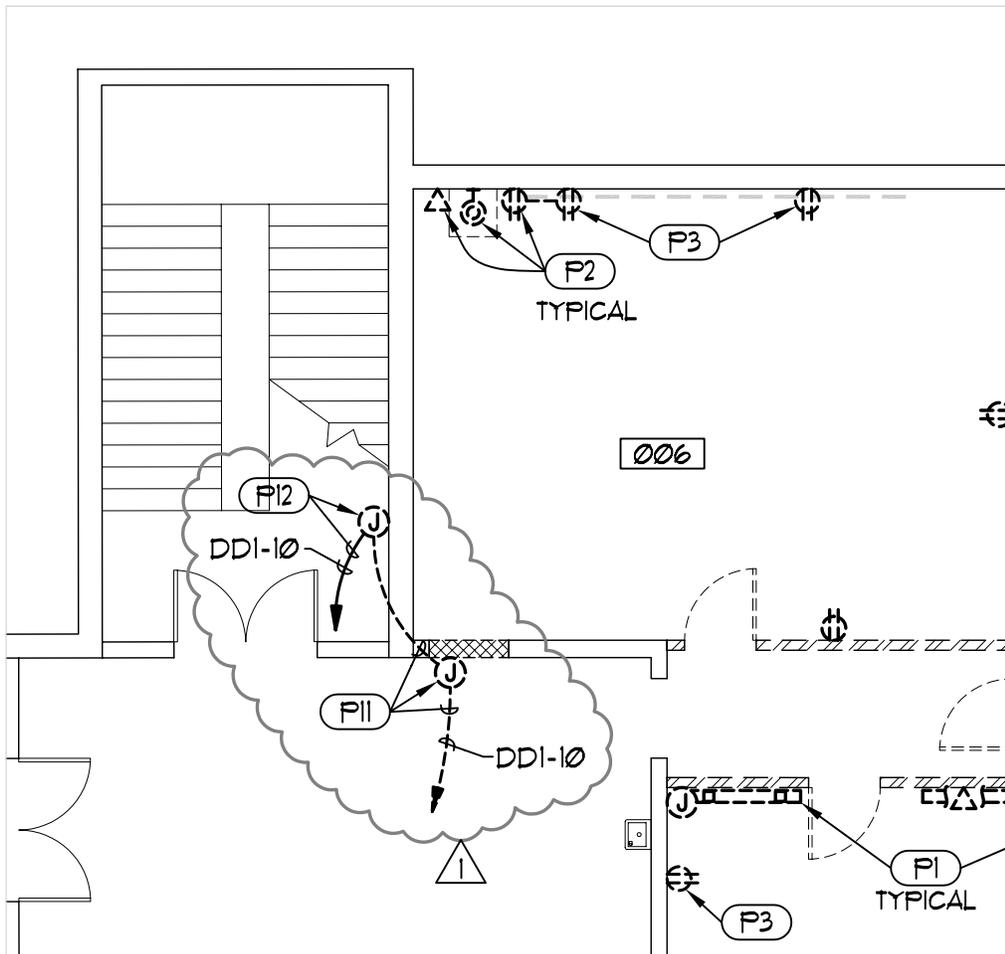
Fixture F-2	Day-Brite	2AVG232-PMW-277-1/2EB
Fixture F-3	Nora Lighting	NHPV-626/EL/NTS-738C/NTG-6B/120
Fixture F-4	Day-O-Lite	JAZ1186-DI332T8-PD15-16-W-277-E10-TCW
Fixture F-5	Day-O-Lite	JAZ1186-DI332T8-PD15-32-W-277-E10-TCW

Attachments: 8-1/2" x 11" Drawings: ED101a, E-101a, E-101b, E-601a, E-601b, and E-601c.

# POWER DEMOLITION KEYED NOTES:

FOR SUPPLEMENTAL DRAWING ED101a

- ① (P11) EXISTING CABINET HEATER TO BE REMOVED. DISCONNECT AND REMOVE ALL EXISTING WIRING. ABANDON EXISTING UNDERGROUND CONDUIT IN PLACE.
- (P12) EXISTING CABINET HEATER IN STAIRWAY TO REMAIN. PROVIDE NEW BRANCH CIRCUIT ABOVE EXISTING CEILING AS INDICATED.



A1

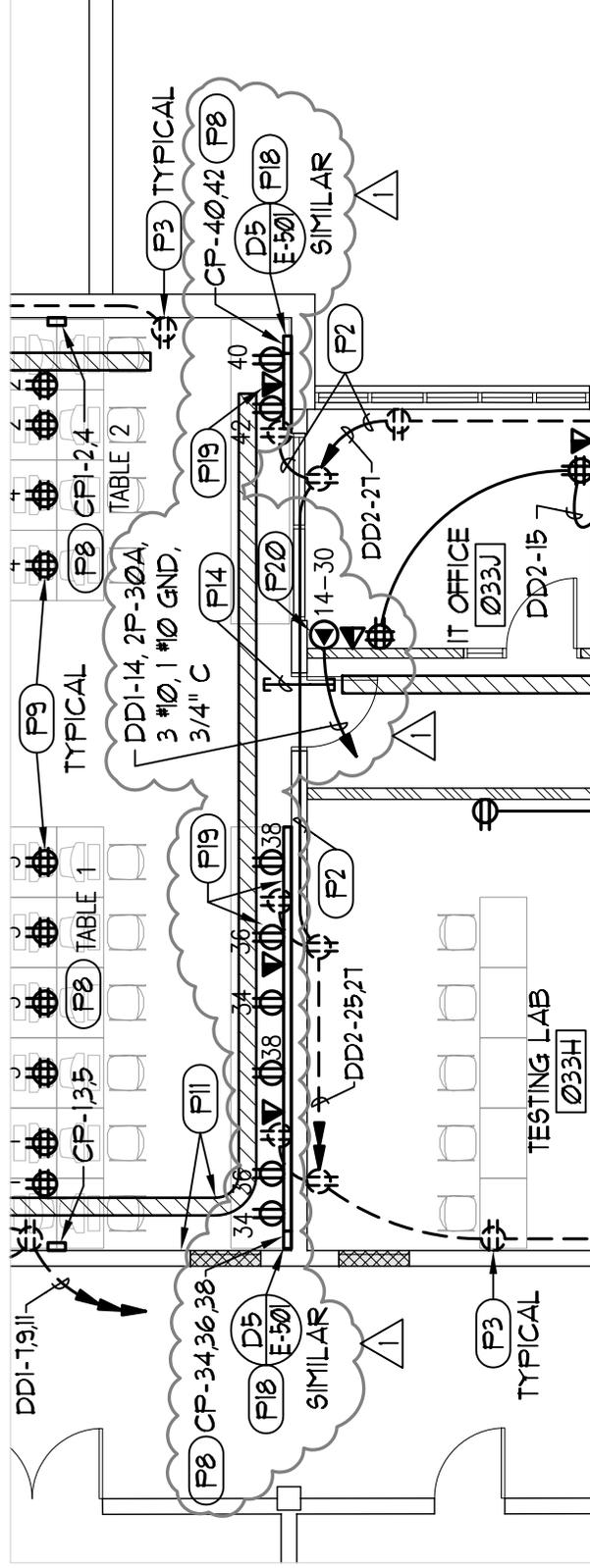
## PARTIAL POWER DEMOLITION PLAN

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



**POWER PLAN KEYED NOTES:**  
FOR SUPPLEMENTAL DRAWING E-101a

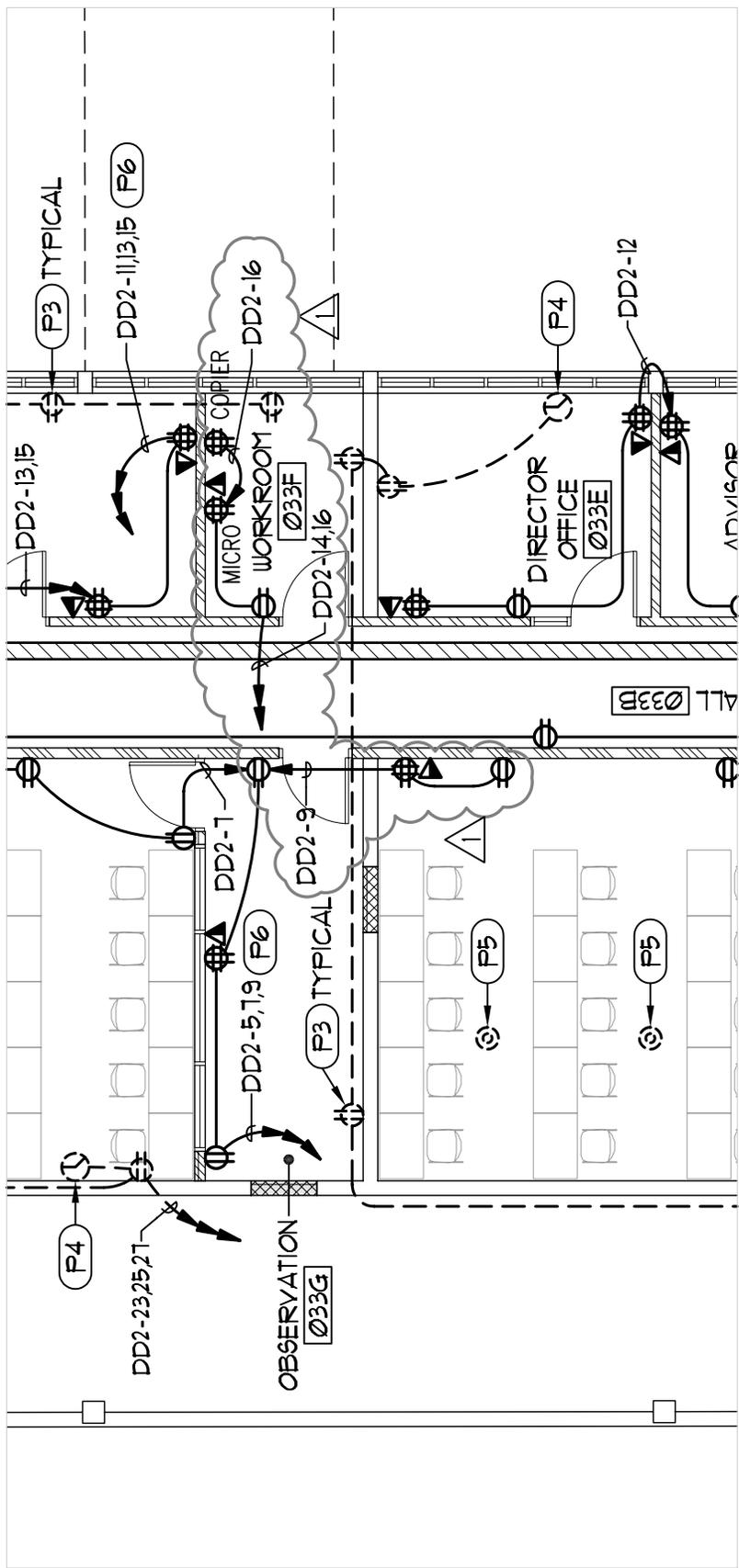
- (P18)** PROVIDE NEW SURFACE RACEWAY SYSTEM FROM CEILING TO NEW SURFACE MULTI-OUTLET ASSEMBLY AT PRINTER TABLES FOR POWER AND DATA TO PRINTERS. SIMILAR TO DETAIL D5/E-501 EXCEPT CONNECT TO MULTI-OUTLET ASSEMBLY.
- (P19)** PROVIDE WIREMOLD 5400 SERIES, OR EQUAL, SURFACE NON-METALLIC MULTI-OUTLET ASSEMBLY ON WALL 44"± ABOVE FINISHED FLOOR TO CENTER OF RACEWAY. PROVIDE DEVICE BRACKETS, FACEPLATES, ETC., NECESSARY FOR INSTALLATION OF RECEPTACLES AND TELE/DATA OUTLETS INDICATED.
- (P20)** PROVIDE RECEPTACLE FOR OWNER FURNISHED UPS. FIELD VERIFY EXACT LOCATION AND REQUIREMENTS WITH ARCHITECT AND/OR OWNER.



**A1 PARTIAL POWER PLAN**

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





# A1 PARTIAL POWER PLAN



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

TESTING & ASSESSMENT CENTER REMODEL  
 SALT LAKE COMMUNITY COLLEGE DFCM PROJECT NO. 07033660

DRAWING: E-101b  
 SEPT. 5, 2007

NEW PANEL 'CP'  
 TYPE 'A8', BOLT-ON  
 3 POLE 225 AMP MAIN LUGS

200% RATED NEUTRAL FOR NON-LINEAR LOADS  
 WITH TVSS

10,000 A. I. C. FULLY RATED  
 120/208 VOLT, 3 PHASE, 4 WIRE  
 SURFACE MOUNTED

CIR ND.	BRKR P AMPS	DESCRIPTION	ND. LTS	REC	CIRCUIT LOAD	PHASE LOAD - VA			CIRCUIT LOAD	ND. REC	LTS	DESCRIPTION	BRKR		CIR ND.
						PHASE A	PHASE B	PHASE C					P	AMPS	
1	1	20	COMPUTER LAB TABLE 1	4	720	1,440			720	4		COMPUTER LAB TABLE 2	1	20	2
3			COMPUTER LAB TABLE 1	4	720		1,440		720	4		COMPUTER LAB TABLE 2			4
5			COMPUTER LAB TABLE 1	4	720			1,440	720	4		COMPUTER LAB TABLE 4			6
7			COMPUTER LAB TABLE 3	4	720	1,440			720	4		COMPUTER LAB TABLE 4			8
9			COMPUTER LAB TABLE 3	4	720		1,440		720	4		COMPUTER LAB TABLE 6			10
11			COMPUTER LAB TABLE 3	4	720			1,440	720	4		COMPUTER LAB TABLE 6			12
13			COMPUTER LAB TABLE 5	4	720	1,440			720	4		COMPUTER LAB TABLE 8			14
15			COMPUTER LAB TABLE 5	4	720		1,440		720	4		COMPUTER LAB TABLE 8			16
17			COMPUTER LAB TABLE 5	4	720			1,440	720	4		COMPUTER LAB TABLE 10			18
19			COMPUTER LAB TABLE 7	4	720	1,440			720	4		COMPUTER LAB TABLE 10			20
21			COMPUTER LAB TABLE 7	4	720		1,440		720	4		COMPUTER LAB TABLE 12			22
23			COMPUTER LAB TABLE 7	4	720			1,440	720	4		COMPUTER LAB TABLE 12			24
25			COMPUTER LAB TABLE 9	4	720	1,440			720	4		COMPUTER LAB TABLE 11			26
27			COMPUTER LAB TABLE 9	4	720		1,440		720	4		COMPUTER LAB TABLE 11			28
29			COMPUTER LAB TABLE 9	4	720			1,440	720	4		COMPUTER LAB TABLE 11			30
31			REC, STORAGE, COMP LAB	2	360	360						SPARE			32
33			SPARE				720		720	2		COMP. LAB WEST PRINTERS			34
35	1	20	SPARE					720	720	2		COMP. LAB WEST PRINTERS			36
37	1		SPACE			720			720	2		COMP. LAB WEST PRINTERS			38
39	1		SPACE				360		360	1		COMP. LAB EAST PRINTERS			40
41	1		SPACE					360	360	1		COMP. LAB EAST PRINTERS	1	20	42

TOTAL CONNECTED LOAD: 24,840 VA 69 AMPS  
 CALCULATED FEEDER DEMAND, NEC 220: 30,960 VA 86 AMPS

FEEDER: 3 #2, 2 #2 NEUTRAL,  
 1 #4 GND, 2' C

EXISTING PANEL 'DD1'  
 GENERAL ELECTRIC TYPE 'NLAB', TYPE 'THQB' BREAKERS  
 3 POLE 300 AMP MAIN BREAKER

DOUBLE PANEL - SECTION I

10,000 A. I. C. FULLY RATED  
 120/208 VOLT, 3 PHASE, 4 WIRE  
 SURFACE MOUNTED

CIR ND.	BRKR		DESCRIPTION	ND. LTS REC	CIRCUIT LOAD	PHASE LOAD - VA			CIRCUIT LOAD	ND. REC LTS	DESCRIPTION	BRKR		CIR ND.
	P	AMPS				PHASE A	PHASE B	PHASE C				P	AMPS	
1	1	20	*	4	720	1,800			1,080	6	OUTLETS, 032,036 *	1	20	2
3			OUTLETS 025 *	4	720		1,800		1,080	6	OUTLETS 040 *			4
5			OUTLETS HALL *	5	900			1,800	900	5	OUTLETS 040 *			6
7			OUTLETS *	6	1,080	2,160			1,080	6	*			8
9			OUTLETS *	6	1,080		1,980		900	5	HEATERS HALL *			10
11			OUTLETS *	4	720			1,620	900	5	HEATER ENTRANCE HALL *	1	20	12
13			OUTLETS 025 *	2	360	2,760			2,400	1	UPS IT OFFICE 033J +	2	30#	14
15	1	20	OUTLETS 025, EXIT SIGNS *	1	180		2,580		2,400		-	-	-	16
17	2	50	50A OUTLET BRICK LAB 025	1	4,200			8,400	4,200		50A OUTLET BRICK LAB 025	2	50	18
19	-	-	-			8,400			4,200		-	-	-	20
21	2	50	50A OUTLET BRICK LAB 025	1	4,200		8,400		4,200		50A OUTLET BRICK LAB 025	2	50	22
23	-	-	-					8,400	4,200		-	-	-	24
						15,120	14,760	20,220						

TOTAL CONNECTED LOAD: 50,100 VA 139 AMPS  
 CALCULATED FEEDER DEMAND, NEC 220: 49,250 VA 137 AMPS

FEEDER: EXISTING 4 #350, 1 #4 GND, 3' C

NOTES - EXISTING PANEL 'DD1'

- \* EXISTING CIRCUIT TO REMAIN. FIELD VERIFY LOCATION AND INCLUDE ON NEW TYPEWRITTEN CIRCUIT INDEX.
- + EXISTING CIRCUIT ABANDONED BY DEMOLITION. CONNECT TO NEW CIRCUITS WHERE INDICATED.
- # PROVIDE NEW 2P-30A GENERAL ELECTRIC TYPE 'THQB' CIRCUIT BREAKER TO SERVE OWNER FURNISHED UPS. REPLACE EXISTING SPARE BREAKERS. EXISTING PANEL 'DD' SCHEDULE SHOWN FOR REFERENCE ONLY. FIELD VERIFY ALL CIRCUITS AND LOADS.



EXISTING PANEL 'DD2'  
 GENERAL ELECTRIC TYPE 'NLAB', TYPE 'THQB' BREAKERS  
 3 POLE 400 MAIN LUGS

DOUBLE PANEL - SECTION II

10,000 A. I. C. FULLY RATED  
 120/208 VOLT, 3 PHASE, 4 WIRE  
 SURFACE MOUNTED

CIR ND.	BRKR P AMPS	DESCRIPTION	ND. LTS	REC	CIRCUIT LOAD	PHASE LOAD - VA			CIRCUIT LOAD	ND. REC	ND. LTS	DESCRIPTION	BRKR		CIR ND.	
						PHASE A	PHASE B	PHASE C					P	AMPS		
1	2	40	OUTLET, MIXER 025 *		1,945	2,485			540	3		OUTLETS-GED TESTING+	1	20	2	
3	-	-			1,945		2,485		540	3		OUTLETS-TESTING HALL+			4	
5	1	20	OUTLETS-OBSERVATION +	4	720			720				SPARE+			6	
7			OUTLETS-TEST LAB +	3	540	900			360	2		OUTLETS-RECEPTION +			8	
9			OUTLETS - GED LAB OFFICE	3	540		1,440		900	5		OUTLETS-ADVISDR OFFICE+			10	
11			OUTLETS-DBLE OFFICE SD+	4	720			1,620	900	5		OUTLETS-DIRECTOR OFFICE+			12	
13			OUTLETS-DBLE OFFICE ND+	3	540	1,080			540	3		OUTLETS-WORK RM, COPIER			14	
15	1	20	OUTLETS-IT OFFICE +	4	720		1,920		1,200	1		OUTLETS-WORK RM, MICRO			16	
17	3	30	OUTLET, MASONRY SAW 025*		1,275			1,275							18	
19	-	-			1,275										20	
21	-	-			1,275		2,275		1,000			OUTLETS ROOM 110 *			22	
23	1	20	OUTLETS RM 020 *		1,000			1,000				SPARE +			24	
25			OUTLETS RM 020 *		1,000	1,240			240			SMOKE DAMPERS, MAIN CORR			26	
27			OUTLETS RM 020 *		1,000		1,000					SPARE +			28	
29	1	20	SPARE +					0				SPARE +			30	
31	3	100#	PANEL 'CP' STDR. RM.		8,280	8,280						SPARE +	1	20	32	
33	-	-			8,280		8,280					VACUUM PUMP JANITOR 034	2	30	34	
35	-	-			8,280			8,280				(REMOVED?)	-	-	36	
						SECTION II										
						SECTIONS I & II										
						SECTION I:			45,555 VA		126 AMPS				FEEDER: EXISTING 4 #350, 1 #4 GND, 3' C	
						SECTIONS I & II:			95,655 VA		266 AMPS					
						CALCULATED FEEDER DEMAND, NEC 220:			94,425 VA		262 AMPS					
TOTAL CONNECTED LOADS:																
						SECTION II			15,260		17,400		12,895			
						SECTIONS I & II			30,380		32,160		33,115			

NOTES - EXISTING PANEL 'DD2'

- \* EXISTING CIRCUIT TO REMAIN. FIELD VERIFY LOCATION AND INCLUDE ON NEW TYPEWRITTEN CIRCUIT INDEX.
- + EXISTING CIRCUIT ABANDONED BY DEMOLITION. CONNECT TO NEW CIRCUITS WHERE INDICATED.
- # PROVIDE NEW 3P-100A GENERAL ELECTRIC TYPE 'THQB' CIRCUIT BREAKER TO SERVE NEW PANEL 'CP', REPLACE EXISTING SPARE BREAKERS.