

# DESIGN & CONSTRUCTION GROUP THE GOVERNOR NELSON A. ROCKEFELLER EMPIRE STATE PLAZA ALBANY, NY 12242

# ADDENDUM NO. 3 TO PROJECT NO. 45382

### HAZARDOUS, CONSTRUCTION, HVAC, PLUMBING, AND ELECTRICAL WORK RENOVATE BUILDING 8, 8<sup>TH</sup> & 9<sup>TH</sup> FLOOR STATE OFFICE BUILDING CAMPUS 1220 WASHINGTON AVE. ALBANY, NY

October 25, 2024

**NOTE:** This Addendum forms a part of the Contract Documents. Insert it in the Project Manual. Acknowledge receipt of this Addendum in the space provided on the Bid Form.

### **BIDDING REQUIREMENTS**

1. DOCUMENT 001114 ADVERTISEMENT FOR BIDS: The last date for receipt of bids is changed from Wednesday, October 30, 2024 to Wednesday, November 6, 2024.

### GENERAL REQUIREMENTS - COMMON DOCUMENTS

2. SECTION 011000 SUMMARY OF THE WORK: Discard the section bound in the Project Manual and any previously issued modifications, use the accompanying section (Pages 011000-1 through 011000-11), noted "Revised 10/23/2024".

### PLUMBING WORK SPECIFICATIONS

6. Page 211300-4, Add Article 2.09 to read:

# "2.19 FLEXIBLE SPRINKLER HOSE FITTINGS

- A. Fitting shall conform to NFPA 13. FM approved pursuant to FM 1637 Approved Standard for Flexible Sprinkler Hose Fittings for fire protection service. UL listed pursuant UL 2443 Standard for Flexible Sprinkler with Fittings for Fire Protection Service. Flexible hose assembly and end fittings shall be type 304 stainless steel. UL listed and FM approved 300 psi maximum pressure rating. Fully welded non mechanical fittings."
- Page 221100-9, Paragraph 3.07.B.: Add sub-paragraph 2.to read:
  "2. 5" inch to 8 inch: Shall be one of the following:

### ADDENDUM NO. 3 TO PROJECT NO. 45382

- a. Galvanized-steel pipe and nipples; galvanized, gray-iron threaded fittings; and threaded joints.
- b. Galvanized-steel pipe; grooved-joint, galvanized-steel-pipe appurtenances; and grooved joints."

# HAZARDOUS MATERIALS WORK DRAWINGS

### 18. Drawing No. H-001: GENERAL ABATEMENT NOTES

- a. Add Note 12 to read:
  - "12. The concrete and metal floor/ceiling slabs from the basement level up to and including the 9th floor slab are considered contaminated with asbestos. The previously abated 9th floor ceiling/roof deck and penthouse level floors and ceilings are considered non-asbestos."
- 19. Drawing No. HC-105: General Sheet Notes
  - Add Note 3 to read:
    - "3. THE C-CONTRACT TEMPORARY EXTERIOR HOIST SYSTEM SHALL UTILIZE THE PREVIOUSLY ABATED ANCHOR AND ATTACHMENT POINTS ALONG THE CURTAINWALL UP TO THE 9<sup>TH</sup> FLOOR."
- 20. Revised Drawing:

a.

a. Drawing No. H-103, noted "REVISED DRAWING 10/23/24" accompanies this Addendum and supersedes the same numbered originally issued drawings.

# CONSTRUCTION WORK DRAWINGS

- 3. Drawing No. A-130:
  - a. Table 1 Mark CH-4: Change the word "Marina 5L35" to "Texel Haze TM26"
- 4. Revised Drawings
  - a. Drawing Nos. A-401 & A-502, noted "REVISED DRAWING 10/23/24" accompanies this Addendum and supersedes the same numbered originally issued drawings.

# HVAC WORK DRAWINGS

### 5. Drawing No. M-001: GENERAL HAZARDOUS MATERIALS NOTES

- a. Add Note 4 to read:
  - "4. The concrete and metal floor/ceiling slabs from the basement level up to and including the 9th floor slab are considered contaminated with asbestos. The previously abated 9th floor ceiling/roof deck and penthouse level floors and ceilings are considered non-asbestos."

# PLUMBING WORK DRAWINGS

- 9. Drawing No. P-001: GENERAL HAZARDOUS MATERIALS NOTES
  - Add Note 3 to read:
    - "3. The concrete and metal floor/ceiling slabs from the basement level up to and including the 9th floor slab are considered contaminated with asbestos. The previously abated 9th floor ceiling/roof deck and penthouse level floors and ceilings are considered non-asbestos."

a.

### ELECTRICAL WORK DRAWINGS

### 10. Drawing No. E-001: GENERAL ASBESTOS ABATEMENT NOTES

- a. Add Note 5 to read:
  - "5. The concrete and metal floor/ceiling slabs from the basement level up to and including the 9th floor slab are considered contaminated with asbestos. The previously abated 9th floor ceiling/roof deck and penthouse level floors and ceilings are considered non-asbestos."
- 11. Drawing No. ED-104: CODED REMOVAL NOTES
  - a. Add Note 6 to read:
    - "6. EXISTING 208/120V 225A MCB PANEL PH-HV-1A."
  - b. On the plan add to leader CODED REMOVAL NOTE 6 to panel "PH-HV-1A" next to CODED REMOVAL NOTE 5.
- 12. Drawing No. ED-601:a. Delete Circuit Breaker under SUBSTATION 2 1600AF/400AT labeled by Coded Note 7.
- 13. Drawing No. E-608: CABLE SCHEDULE
  - a. Revise note 1 to read:
    - "1. CAT 6A CABLE PROVIDED BY EC"
- 14. Drawing No. E-111: CODED NOTE
  - a. Revise note 1 to read:
    - \*1. PROVIDE 100A, 1-PHASE, 3W MAIN CIRCUIT BREAKER PANEL WITH 40A MAIN CIRCUIT BREAKER ON WOOD FRAMED SKID WITH (6) DUPLEX RECEPTACLES. EACH DUPLEX RECEPTACLE ON DEDICATED 20A/1P CIRCUIT. TEMPORARY PANEL TO BE FED FROM EXISTING 120/208 POWER PANEL ON FLOOR. ONCE ENOUGH PERMANENT POWER IS PROVIDED ON FLOOR, PANEL FEEDING TEMPORARY PANEL CAN BE REPLACED."
- 15. Drawing No. E-300: CODED NOTE
  - a. Revise note 9 as follow: Change the word "E-301A' to "E-301"
  - b. On plan, move CODED NOTE 9. plan west of FIRE PUMP RM B000 to inside of room FIRE PUMP RM B000.
- 16. Drawing No. E-605:
  - a. On Panel Schedule 8-9-A-2 add 2 pole 40A Breaker Labeled "TEMP POWER PANEL" to circuit No.'s 20 & 22.
  - b. On Panel Schedule 8-9-A-2 add 2 pole 40A Breaker Labeled "TEMP POWER PANEL" to circuit No.'s 24 & 26.
  - c. On Panel Schedule 8-9-A-2 add 2 pole 40A Breaker Labeled "TEMP POWER PANEL" to circuit No.'s 28 & 30.

### ADDENDUM NO. 3 TO PROJECT NO. 45382

- d. On Panel Schedule 8-9-A-2 add 2 pole 40A Breaker Labeled "TEMP POWER PANEL" to circuit No.'s 32 & 34.
- 17. Revised Drawings:
  - a. Drawing Nos. E-108M, E-301A, E-603 & E-702 noted "REVISED DRAWING 10/23/24" accompany this Addendum and supersedes the same numbered originally issued drawings.

### END OF ADDENDUM

Brady Sherlock, P.E. Director, Division of Design Design & Construction

### **SECTION 011000**

### SUMMARY OF THE WORK

### PART 1 GENERAL

### 1.01 WORK COVERED BY CONTRACT DOCUMENTS

- A. The title and location of the Work is printed on the cover of this Project Manual.
- B. Type of Contract: Fixed price.

### 1.02 RELATED CONTRACTS

A.	The Project consists of the fol	llowing separate contracts:
	Hazardous Materials Work	Project No. 45382-B
	Construction Work	Project No. 45382-C
	HVAC Work	Project No. 45382-H
	Plumbing Work	Project No. 45382-P
	Electrical Work	Project No. 45382-E

B. The suffix letter at the end of the project number distinguishes the separate Contracts. The Sections in Division 01 of the Specifications which have more than one suffix letter (such as this Section) are common to each related Contract.

### **1.03 CONCURRENT PROJECTS**

A.	The following projects wi	ll be taking place concurrently with the work of this
	project:	
	Construction Work	Project No. 47390-C (Retaining Wall)
	Construction Work	Project No. 47421-C, H, P, E

B. Coordinate the work of this project, thru the Director's Representative, to avoid conflicts with concurrent contracts.

### 1.04 SUBSTANTIAL AND PHYSICAL COMPLETION DATES

- A. Substantially complete the Work within 1,148 days after the Agreement is approved by the Comptroller.
  - 1. The time allocated for the performance of work under this contract includes 10 days for notification of the Contractor of the Comptroller's approval of the Agreement.
  - 2. The approval of the Agreement by the Comptroller constitutes the filing of the Contract Documents as a public record and notice to the Contractor that a fully executed contract exists between the Contractor and the State.
- B. Physically complete the Work within 90 days after the established Substantial Completion date.

# 1.05 SEQUENCING AND WORK RESTRICTIONS

- A. Sequencing shown in Paragraphs below is required to progress the Work. The following work requires specific sequencing:
  - 1. Prior to any Contract B abatement work, at a minimum, the following work must be completed by Contract B:
  - 2. Erection of Temporary Exterior Hoist (used by Contract B) to be completed and operational within 16 weeks of Contract Award. Location of crane to be coordinated with Director's Representative. The 7<sup>th</sup> floor abatement work shall commence immediately following the erection of the B Contract Temporary Exterior Hoist. Prior to any Contract C, H, E & P work, at a minimum, the following work must be completed by Contract C:
    - a. Erection of Temporary Exterior Hoist (used by Contracts C, H, E & P) to be completed and operational within 16 weeks of Contract Award. Location of crane to be coordinated with Director's Representative.
  - 3. Prior to abatement/removal of the existing curtain wall system, at a minimum, the following work must be complete:
    - a. Completion of the full gut and abatement of the 7<sup>th</sup> Floor (B-contract).
    - b. Temporary heating shall be provided by H-contract.
    - c. Existing perimeter heating system shall be removed.
    - d. Perimeter steel stiffener beams shall be installed.
      - 1) At the 7th floor provide cold formed framing per 10/S-500.
    - e. provide temporary perimeter weather protection on floors 7<sup>th</sup>, 8<sup>th</sup> and 9<sup>th</sup> as per drawing HC-105
  - 4. The existing curtain wall system has asbestos and PCB-containing caulks and sealants present. The curtain wall abatement and removals shall be performed in three-floor vertical sections/bays, one at a time. The individual sections will be from column line to column line as shown on HC-106. Work on directly adjacent bays shall not progress until full removal and passing visual clearance is achieved on a single bay. Putback work shall not begin until removals have progressed one full bay past the starting point. (abatement and new curtainwall install will be per the C-contract.).
  - 5. The curtainwall systems on the 7<sup>th</sup>, 8<sup>th</sup>, and 9<sup>th</sup> floors must be abated and removed prior to the removal of the existing concrete draftstop panels.
  - 6. Prior to any Contract C, H, E & P work on or access to Floor 7, the full gut and abatement by the B-Contract must be complete.
  - 7. Restroom plumbing risers shall be installed from top of building down. Below the 7<sup>th</sup> Floor, no more than two floors of restrooms shall be taken offline per phase. Restroom closures require advance notification of at least two full weeks and will include partial abatement of the asbestoscontaining ceilings and floors.
  - 8. Stairway fire riser work on any floor level requires closure of that full stair tower (all floors). No more than one stair tower may be taken offline

at any given time. Stair closures require advance written notification of at least two full weeks.

- a. Curtainwall shall be fully installed, tested, and accepted prior to perimeter heating system installation.
- b. All Finishes to be installed after new curtain wall is installed.
- B. Work Restrictions:
  - 1. The following work has work restrictions and are required to be followed to complete the work. All Contracts shall Perform the Work of this Contract with the following restrictions.
  - 2. HVAC Work (Contract H):
    - a. Location of crane to hoist mechanical equipment to and from roof to be coordinated with Director's Representative.
      - Crane lifts setup outside of contractor laydown area to the roof or penthouse as shown on C-100 must occur during weekend hours. Provide 48 hours advance notice of all crane lifts to the Directors Representative. Equipment being lifted shall not be overhead of pedestrian walkways or building entrances during weekday hours.
    - b. Supplemental steel roof framing shall be installed prior to installation of rooftop equipment.
    - c Installation of perimeter Roof Top Units and connection to existing perimeter induction system duct risers must be complete and operational prior to removal of Penthouse Air Handling Units serving perimeter induction system.
    - d. Removal and installation of Penthouse Air Handler Units, Return Fans and associated ductwork. Penthouse Air Handling Units, Return Fans and associated ductwork shall be removed and installed one system at a time while operation of remaining existing units continues to serve occupied floors.
    - Removal and installation of heating equipment and associated piping in the basement shall commence at the beginning of the first cooling season following award of contract (after May 15<sup>th</sup>), and shall be tested & operational by the beginning of the of next heating season (October 15<sup>th</sup>).
    - f. Removal and installation of heating riser piping from the basement shall commence at the beginning of the first cooling season following award of contract (after May 15<sup>th</sup>), and shall be tested & operational by the beginning of the of next heating season (October 15<sup>th</sup>).
    - g. Installation of 7<sup>th</sup> floor temporary heating ductwork and pipe taps shall commence at the completion of 7<sup>th</sup> floor abatement (Contract B).
    - h. The h-contract shall maintain the 7th floor temporary heat during construction after the completion of the 7th floor abatement per the requirements of SPECIFICATION 015123
    - i. Removal and installation of cooling equipment and associated piping in the basement shall commence at the beginning of the

first heating season following the award of contract (after October 15<sup>th</sup>), and shall be tested & operational by the beginning of the next cooling season (May 15<sup>th</sup>).

- j. Removal and installation of chilled water riser piping from the basement up to the penthouse shall commence at the beginning of the first heating season following the award of contract ( after October 15<sup>th</sup>), and shall be tested & operational by the beginning of the next cooling season (May 15<sup>th</sup>).
- k. Installation of HVAC ductwork, piping, and controls on the 7<sup>th</sup> floor shall commence following the completion of 7<sup>th</sup> floor abatement (Contract B).
- Materials required to be brought to or removed from occupied Floors (G thru 6) shall be performed afterhours on weekdays (6:00 PM to 6:00 AM) and/or during the weekends. Coordinate with Director's Representative 48 hours in advance for use of the building's freight elevator.
- m. Work in duct and pipe shafts on occupied floors can be performed during regular work hours as long it can be demonstrated with a work plan that the work does not negatively affect the daily operation/safety of the building's occupants. Coordinate work in these areas with the Director's Representative 48 hours in advance of the start of work.

### 3. Plumbing Work (Contract P):

- a. Removal and installation of fire suppression building risers at Stair 1, 2 & 3 (sequenced work involving all floors in Building 8).
- b. Restroom plumbing risers shall be installed from top of building down. Below the 7<sup>th</sup> Floor, no more than two floors of restrooms shall be taken offline per phase. Restroom closures require advance notification of at least two weeks and will include partial abatement of the asbestos-containing ceilings and floors. Non abatement work occurring in this area on occupied floors can be performed during regular work hours as long it can be demonstrated with a work plan that the work does not negatively affect the daily operation/safety of the building's occupants. Coordinate work in these areas with the Director's Representative two weeks in advance of the start of work.
- c. Stairway fire riser work on any floor level requires closure of that full stair tower (all floors). No more than one stair tower may be offline at any given time. Stair closures require advance written notification of at least two weeks. Work occurring in this area on occupied floors can be performed during regular work hours as long it can be demonstrated with a work plan that the work does not negatively affect the daily operation/safety of the building's occupants. Coordinate work in these areas with the Director's Representative two weeks in advance of the start of work.

- d. Materials required to be brought to or removed from occupied Floors (G thru 6) shall be performed afterhours on weekdays (6:00 PM to 6:00 AM) and/or during the weekends. Coordinate with Director's Representative 48 hours in advance for use of the building's freight elevator.
- 4. Electrical Work (Contract E):
  - a. Installation of temporary power and lighting for Floors Basement, 7, 8, 9 and Penthouse. Include temporary lighting within Stairwells.
  - b. Replacement of power feeder conductors for Motor Control Center #1 in basement and MCC's 2 & 3 in Penthouse.
  - c. Refurbishing of all effected buckets in Motor Control Centers with new breakers associated with mechanical equipment.
  - Materials required to be brought to or removed from occupied Floors (G thru 6) shall be performed afterhours on weekdays (6:00 PM to 6:00 AM) and/or during the weekends. Coordinate with Director's Representative 48 hours in advance for use of the building's freight elevator.
- 5. Hazardous Materials Work (Contract B):
  - a. Abatement of Dumbwaiter Shaft (sequenced work needs to be coordinated with all contracts involving all floors in Building 8).
  - b. Abatement and removal of select ceiling areas and plumbing risers (sequenced work needs to be coordinated with all contracts involving Floors basement through 6<sup>th</sup> floor).
  - c. Abatement and removal of wall sections within each stairwell from the basement through the 9<sup>th</sup> floor to facilitate new fire standpipe installations. Work shall be performed Monday through Friday from 6:00 pm to 6:00 am and on weekends so as not to disrupt the building occupants and daily operations. (Sequenced work needs to be coordinated with all contracts involving all floors in Building 8 to maintain code compliant egress). Stairwell work will be completed one stairwell at a time."
  - d. Abatement and floor slab removals within each bathroom from the ground floor through the 9<sup>th</sup> floor to facilitate plumbing installations. Work shall be performed Monday through Friday from 6:00 pm to 6:00 am and on weekends so as not to disrupt the building occupants and daily operations. (Sequenced work needs to be coordinated with all contracts involving all floors in Building 8 to maintain code compliant egress). Bathroom work will be completed two floors at a time."

### 1.06 CONTRACT AWARD SUBMITTALS

 A. Submittal No. 1: Submit the CONTRACTOR'S LIST OF SUBCONTRACTORS-SUPPLIERS information required in SCHEDULES AND RECORDS Article in Specification Section 013000 not later than 15 days after approval of the Contract by the Comptroller.

- B. Submittal No. 2: Submit Preliminary Project Schedule related information noted in 013113 Project Planning and Scheduling or 013200 Construction Progress Documentation, whichever section is applicable, within 15 days after approval of the Contract by the Comptroller for review by the Director's Representative and OGS Scheduling.
- C. Submittal No. 3: Submit the Submittal Coordinator Qualifications not later than 10 days after Award. Include resume and references, and other certification, licenses, or other requested information.
- D. Submittal No. 4 (Construction and Hazardous Abatement Work Contracts Only): Submit Exterior Temporary Exterior Hoist for approval per Specification Section 015301 respectively not later than 14 days after approval of the Contract by the Comptroller.
- E. Submittal No. 5 (Construction Work Contract): Submit Window Wall Systems for approval per Specification Sections 084413 not later than 21 days after approval of the Contract by the Comptroller.
- F. Submittal No. 6 (Hazardous Material Work Contract): Submit Asbestos Abatement Plan for approval per Specification Section 028213 not later than 14 days after approval of the Contract by the Comptroller.
- G. Submittal No. 7 (HVAC Work Contract): Submit Rooftop Units for approval per Specification Section 237313 not later than 21 days after approval of the Contract by the Comptroller.
- H. Submittal No. 8 (Electrical Work Contract): Submit motor control centers for approval per Specification Section 262419 not later than 21 days after approval of the Contract by the Comptroller.
- I. Submittal No. 9 (HVAC Work Contract): Submit chilled water pumps BP-1 and BP-2 for approval per Specification 232123 not later than 21 days after approval of the Contract by the Comptroller.
- J. Submittal No. 10 (HVAC Work Contract): Submit properly coordinated ductwork shop drawings for approval per Specification 233113 not later than 75 days after approval of the Contract by the Comptroller.

# 1.07 RESTRICTED WORK PERIOD

- A. Construction Work Contract: Do not perform the curtainwall abatement and removal work, and curtainwall installation Work on or after December 1st and up to, but not including April 1st unless approved otherwise, in writing, by the Director. clear the site of materials, equipment, and debris. Maintain the curtainwall building envelope in a watertight condition.
- B. Construction Work Contract: Do not perform the roofing and related Work on or after December 1st and up to, but not including April 1st unless approved otherwise, in writing, by the Director. During this period, clear the roof of materials, equipment, and debris. Maintain the roof in a watertight condition.

- C. Construction Work Contract: Do not perform the waterproofing and related Work on or after December 1<sup>st</sup> and up to, but not including April 1<sup>st</sup> unless approved otherwise, in writing, by the Director. During this period, clear the work area of materials, equipment, and debris.
- D. HVAC Work Contract: Do not perform Work requiring shut off of active heating piping and equipment on or after October 15<sup>th</sup> and up to, but not including May 1<sup>st</sup> unless approved otherwise, in writing, by the Director.
- E. Asbestos-containing materials will be abated by the Hazardous Material Work and Electrical Contractors . Do not perform other Work in the area of such activity during the abatement of asbestos-containing materials.

### **1.08 ITEMS NOT INCLUDED**

- A. The following items shown on the Drawings are not included in the Contract:
  - 1. Items indicated "NIC" (Not in Contract).
  - 2. Existing construction, except where such construction is to be removed, replaced, or altered.

### 1.09 CONFINED SPACE

- A. Comply with confined space and permit-required confined space as defined in Title 29, Part 1910, Section 146 of the Code of Federal Regulations (29CFR 1910.146).
- B. Comply with Safety Requirements for Confined Spaces (ANSI/ASSE Z117.1-2009).
- C. All spaces shall be treated as permit-required confined spaces until the Contractor and/or subcontractors are able to re-classify the space to a non-permit confined space as per 29CFR 1910.146 and ANSI/ASSE Z117.1-2009.
- D. Indicated confined spaces are not intended to limit or define Contractor's or subcontractors' regulatory compliance requirements. In addition to confined spaces indicated on the drawings, other confined spaces may be present or created by the work of this contract. Notify the Director's Representative, in writing, of confined spaces created or eliminated during execution of the Work.
- E. For the purpose of inspecting ongoing work, furnish at no additional cost to the State, personnel, as directed, to allow the Director's Representative to enter confined space and permit-required confined space in compliance with Title 29, Part 1910, Section 146 of the Code of Federal Regulations (29CFR 1910.146).

### 1.10 OCCUPANCY

A. This is an occupied Facility. The building will be occupied and operational during execution of the Work. Ingress to and egress from the building shall be maintained at all times.

# 1.11 CONNECTION TO ELECTRICAL EQUIPMENT OR SYSTEMS

- A. Contractor will not be allowed to tie into electrical equipment or systems until the Division of Utilities Management has reviewed and approved the connection.
  - 1. Submit written procedures thru the Director's Representative to the Division of Utilities Management, detailing how the connection Work is proposed to be performed.
  - 2. After procedures have been approved, notify the Director's Representative at least 3 working days prior to the connection Work so that arrangements can be made to have a Division of Utilities Management Representative witness the Work.

### **1.12 CONTRACTOR USE OF PREMISES**

- A. Work hours shall be as established by the Facility authorities thru the Director's Representative.
- B. Inform the Director's Representative of work area access requirements. The Director's Representative will coordinate and schedule the requirements with Facility staff to obtain and ensure timely availability of work areas.
- C. Check in with the Facility Representative, as directed, at the beginning of each workday. Furnish information regarding where employees will be working during the day.
- D. Comply with the Facility's Visitor Identification Policy. A copy of the current policy will be distributed at the initial job meeting.
- E. The following items are not allowed on the Site or on Facility premises.
  - 1. Firearms, ammunition, weapons, and dangerous instruments (other than tools required for the Work).
  - 2. Alcoholic beverages and persons under the influence of same.
  - 3. Cannabis and persons under the influence of same. Cannabis, as used herein shall refer to any form of cannabis that has psychoactive properties.
  - 4. Illegal controlled substances and persons under the influence of same.
  - 5. Cameras (except with written permission from the Director's Representative).
- F. Comply with Facility policies relating to smoking at the Site.
- G. Routes of ingress and egress within the building to the location of the Work shall be as directed by the Director's Representative.
- H. Store materials and perform the Work so that pedestrian and vehicular traffic is not obstructed.
- I. Do not diminish the level of life safety during performance of the Work.
- J. Furniture and portable equipment which interferes with execution of the Work will be removed and reset by Facility personnel.

- K. Utility Outages and Shutdowns: Do not interrupt utility services or branch services within the building except for the time required to make new connections. Arrange with the Director's Representative for the time and duration of interruptions of services. Provide temporary services required to maintain building services at all times other than during scheduled interruptions.
  - 1. All Contracts (B-Contract, C-Contract, H-Contract, P-Contract and E-Contract)Work Contract: During the asbestos abatement portion of the Project, comply with the requirements specified in Section 028213.
- L. Use of Existing Elevators:
  - 1. Elevators for transportation of workers and materials will be designated by the Director's Representative. Arrange the time and duration of such use with the Director's Representative. Do not exceed capacity of elevators. Provide padding or other protection for the car.
  - 2. During Periods of Exclusive Use:
    - a. Operate elevators. Prevent unauthorized persons from using elevators.
    - b. Where an existing elevator service contract exists, make arrangements thru the Director's Representative for repairs required due to misuse or negligence. Pay elevator service company's fees for repairs.
    - c. Where an existing elevator service contract does not exist, have repairs required due to misuse or negligence made by a qualified elevator company.
- M. Do not use existing elevators for the Work.
- N. Be responsible and accountable for employees, suppliers, subcontractors and their employees, with regard to their use of the premises. Direct them to comply with the Facility Regulations and with the security and traffic regulations.
- O. Furnish Facility authorities with a telephone number or method to contact the supervisor for the Work in case of an emergency after work hours, including weekends and holidays.
- P. Comply with applicable federal and State of New York Right-to-Know Law provisions. Provide Safety Data Sheets (SDS) documents for products that have SDS data prior to use on the project site.
  - 1. Upload and maintain electronic SDS documents on the Submittals Website (SDS tab).
  - 2. SDS tab is organized by prime contracts. To be readily identified, name products with SDS by specification section number and product name.
  - 3. Supply and maintain one hard copy of the appropriate SDS on the project site and one hard copy with the Facility's Right-to-Know Information Officer.
- Q. Direct employees to be watchful for people in or near the work area where safety hazards may be present. Notify the Facility Safety/Security Department, if necessary, to remove them from the work area or Site.

R. Report fire and other emergency situations to the Facility Safety/Security Department immediately.

# 1.13 OPENINGS AND CHASES IN NEW CONSTRUCTION

- A. Construction Work Contract:
  - 1. Unless specifically indicated otherwise, provide openings, chases, and similar items in new construction provided under this Contract, as required for items to be provided under related contracts.
  - 2. After the installation and completion of the items for which openings and chases have been provided, build in, over, around and finish the openings and chases to complete the Work.
  - 3. Provide all cutting, patching, and refinishing resulting from failure to provide the required openings and chases, if the necessary information was furnished by the related contractor before 24 hours of start of the applicable part of the Work.
  - 4. If related contractors fail to furnish drawings or written information covering the openings and chases they require in new construction at least 24 hours before installation of the Work affected by those items, the related contractors will be required to do all cutting, patching, and refinishing of the construction so affected, at their own expense.
- B. HVAC Work, Plumbing Work, and Electrical Work Contracts:
  - 1. Unless specifically indicated otherwise, furnish drawings or written information to the Construction Work Contractor covering the openings and chases required in new construction for the Work. If such information is not furnished at least 24 hours before start of the applicable part of the Construction Work Contractor's work, all necessary cutting, patching, and refinishing will be included in the Contract at no additional cost to the State.

# 1.14 SPRAYED-ON FIREPROOFING FOR NEW CONSTRUCTION

- A. Construction Work Contract:
  - 1. Notify the related contractors 5 working days prior to the application of fireproofing.
  - 2. If related contractors fail to install hangers, clips, sleeves, and other items that will penetrate the fireproofing, the related contractors will be required to cut and repair the fireproofing at their own expense.
- B. HVAC Work, Plumbing Work, and Electrical Work Contracts:
  - 1. Construction Work Contractor will give 5 working days' notice prior to application of fireproofing.
  - 2. If hangers, clips, sleeves, and other items that will penetrate the fireproofing are not in place before application of the fireproofing by the Construction Work Contractor, all necessary cutting and repair of the fireproofing will be included in the Contract at no additional cost to the State.

# 1.15 REFERENCE SPECIFICATIONS AND STANDARDS

- A. Comply with the requirements of the various specifications and standards referred to in these Specifications, except where they conflict with the requirements of these Specifications. Such reference specifications and standards shall be the date of latest revision in effect at the time of receiving bids unless the date is given.
- B. DOT Specifications: If the abbreviation DOT appears in these Specifications, it shall mean the most current edition of the New York State Department of Transportation, Office of Engineering specifications entitled "STANDARD SPECIFICATIONS CONSTRUCTION AND MATERIALS", including all applicable Addenda in effect at the time of receipt of bids. The DOT specifications may be purchased from the Department of Transportation, Plan and Publication Sales, 50 Wolf Road, Albany, NY 12232, (518) 457-2124.

### 1.16 LAYING OUT

- A. Examine the Contract Documents thoroughly and promptly report any errors or discrepancies to the Director's Representative before commencing the Work.
- B. Lay out the Work in accordance with the Contract Documents.

### 1.17 SPECIAL INSPECTIONS

- A. Special Inspections and tests are required by Chapter 17 of the Building Code of New York State (BCNYS). Inspections & Testing Services will be provided by the state unless otherwise noted.
- B. Contractors are responsible for notifying the Directors Representative regarding individual inspections listed in the STATEMENT OF SPECIAL INSPECTIONS. Contractors shall cooperate with the inspectors and testing agencies and sufficient notice and lead time (minimum 48 hours) must be allowed for inspection and testing to be performed.
- C. Where deficiencies are identified, the contractor must take corrective actions to comply with the contract documents or remedy the deficiencies in accordance with Article 9 of the General Conditions.

### PART 2 PRODUCTS (Not Used)

### PART 3 EXECUTION (Not Used)

### **END OF SECTION**





# ASBESTOS-CONTAMINATED MORTAR BED AND UNDERLYING ONCRETE TO BE REMOVED DOWN TO THE METAL DECK AND ISPOSED OF AS REGULATED ASBESTOS WASTE.

NOT TO SCALE

<u>LEGEND:</u> **\_\_\_** GYPSUM BOARD WITH METAL STUD WALLS, DOORS, AND DOOR FRAMES TO BE REMOVED AS ACM. ===== CMU OR MASONRY WALLS TO BE REMOVED AS ACM.

- SEAL THE OPENING FLUSH WITH THE SLAB. FINALLY, REPLACE AND FASTEN THE LARGE ACCESS POINT COVERS TO PREVENT FUTURE DISTURBANCE OR CONTAMINATION. SEE SUPPLIED RECORD DRAWINGS FOR LOCATIONS AND EXTENTS OF IN-FLOOR RACEWAYS AND ASSUME 200 EXISTING ELECTRICAL "DOG-HOUSES" FOR REMOVAL AND CAPPING.

- FIREPROOFING REMOVALS WITHIN THE SHAFT ITSELF (PER CODED NOTE 1).
- <u>GENERAL SHEET NOTES:</u>

1. COORDINATE EXACT LOCATION AND EXTENT OF WALL REMOVALS WITH THE DIRECTOR'S REPRESENTATIVE.

2. PERFORM CONVEY. SHAFT WALL REMOVALS UPON COMPLETION OF ALL CEILING REMOVALS WITHIN THE 7TH FLOOR AND UPON COMPLETION OF SPRAY-ON

3. PIPE CHASES LOCATED AT INTERIOR COLUMNS AT B4, B7, C2, C9, H2, H9, J4, AND J7, AS WELL AS THE PLUMBING CHASES BETWEEN AND ON EITHER END OF THE MEN'S AND WOMEN'S BATHROOMS ARE CONSIDERED ASBESTOS CONTAMINATED. PIPING AND DUCTWORK IN THOSE CHASES IS INSULATED WITH FIBERGLASS INSULATION WHICH IS CONSIDERED CONTAMINATED. REMOVE ALL, WALL COVERINGS, PIPE/PLUMBING CHASES (CMU AND PLASTER) DOWN TO THE FLOOR SLAB TO ALLOW FOR THE REMOVAL OF ASBESTOS CONTAMINATED FIBERGLASS INSULATION, SPRAY-ON FIREPROOFING/OVERSPRAY, AND DEBRIS PRESENT IN THE PIPE CHASE. DISPOSE OF ALL REMOVED MATERIAL INCLUDING CHASE WALL AS ASBESTOS. SUPPORT PIPING AND DUCTWORK AT FLOOR PENETRATIONS AND AT ANY ADDITIONAL LOCATIONS IF SUCH ARE REMOVED DURING COLUMN REMOVAL. REFER TO DRAWING H-101 FOR PIPING AND DUCTWORK TO REMAIN. 4. REMOVE ALL FLOOR-MOUNTED ELECTRICAL BOXES FROM ALL WORK STATIONS AND CONFERENCE ROOMS AS PART OF THE PREPARATION OF THE WORK AREA. REMOVE AND DISPOSE OF ALL CABLE/WIRING FROM IN-FLOOR RACEWAYS ON THE 7TH FLOOR AS ASBESTOS IN ACCORDANCE WITH CODE RULE 56 AND THE APPOVED SITE SPECIFIC VARIANCE (23-1078) FOR THE MANAGEMENT OF CONTAMINATED IN FLOOR RACEWAYS. ONCE ALL CABLE/WIRING HAS BEEN REMOVED, VACUUM THE RACEWAY ACCESS POINTS. PLACE A METAL JAR TOP IN EACH DOGHOUSE PENETRATION (2" HOLE) AND APPLY GROUT OVER THE JAR TOP TO











 Image: state of the state







# **ENLARGED PLAN - TYP PRINTER POD** / 8 A-401 1/4" = 1'-0"



# 12 **ENLARGED PLAN - TYP. WORK AREA** A-401 1/4" = 1'-0"

INT ELEV - WORK AREA A-401 1/4" = 1'-0"







**REFER TO ELEVATIONS FOR MATERIAL** SPECIFICATIONS -++-EASED EDGES PLASTIC LAMINATE EDGE 1/2" THICK AT SOLID SURFACE & 3/4" THICK AT QUARTZ COUNTERTOPS, TYP. 1" THICK AT SOLID SURFACE & 3/4" THICK \_\_\_\_ AT QUARTZ COUNTERTOPS, TYP. \_\_\_\_ \_\_\_\_ \_/// EASED EDGES AT SOLID  $- \left< - \left< - \left< - \left< - \left< - \right< - \right> \right>$ SURFACE & QUARTZ COUNTERTOPS, TYP. DOOR/DRAWER HARDWARE AS SPECIFIED SEMI EXPOSED CABINET - PLAM CABINET INTERIOR SURFACE, COLOR TO MATCH COLOR TO MATCH EXTERIOR EXTERIOR FINISH -SOLID SURFACE OR QUARTZ EDGE DETAIL - COUNTER TOP EDGE DETAILS A-502 6" = 1'-0" A-502 6" = 1'-0"







	DESIGI LO FEI VC PHASE,	NATION: 8-8-A- CATION: ELEC D FROM: PH-H DLTAGE: 208/12 , WIRES: 3PH, 4	1 CL 811 /-1 20V 4W						PA	Mains Ocpd R/ Bus R/ Nel Moui N. Bus Br	TYPE: MO ATING: 10 ATING: 10 NTING: SL ACING 10	CB 10 A 10 A JRFACE 1 KAIC
CKT NO.	LOAD DESCRIPTION	AMPS	POLES	CONN PHA (K	LOAD SE A /A)	CONN PHA (K	. LOAD SE B VA)	CONN PHA (K	I. LOAD ASE C (VA)	POLES	AMPS	
1	REC: PRINTER 817	20 A	1	0.2	0.2					1	20 A	REC: PRI
3	REC: PRINTER 817	20 A	1			0.2	0.7			1	20 A	REC: OFF
5	REC: OFFICE 818 & 819 *	20 A	1					0.7	1.6	1	20 A	REC: CIR
7	REC: BREAK RM 823 *	20 A	1	1.3	0.5					1	20 A	REC: OFF
9	REC: BOARD RM 808 *	20 A	1			0.5	0.9			1	20 A	REC: NO
11	REC: WATER COOLER IN CIRC C800	20 A	1					0.2	1.3	1	20 A	REC: NO
13	BAS PANELS IN ELEC CL 811	20 A	1	0.1	0.3			5	$\frown$	1	20 A	VAV 803,
$\overline{15}$	REC: BOARD RM 807	20 A	$\sim$ 1	$\gamma \sim$	$\uparrow$	1.1	1.1	$\gamma$		$\sim_1$	20 A	REO BOA
17 19	TEMP POWER PANEL	40 A	2	0.1	0.1			0.1	0.1	2	40 A	TEMP PO
21 23	TEMP POWER PANEL	40 A	2			0.1	0.1	0.1	0.1	2	40 A	TEMP PC
25	m			$\overline{}$	M			X	لر		$\checkmark$	
29	SPARE	20 A	1					0.0	0.0	1	20 A	SPARE
31	SPARE	20 A	1	0.0	0.0					1	20 A	SPARE
33	SPARE	20 A	1			0.0						
35												
37												
39												
41												
	TOTAL L TOTA	OAD PER PHA	SE (KVA): AD (KVA):	2.8	kVA	4.7	kVA kVA	4.2	2 kVA	_		
LOAD CL	ASSIFICATION		CONN. LO	DAD	DEM	MAND FAC	TOR	DEI	MAND LOA	AD		
Motor			300 VA	4		104.17%			313 VA			
Other			1540 V	A		100.00%			1540 VA		TOTAL	CONNECT
RECEPT	ACLE		9000 V	A	_	100.00%			9000 VA			
											TOTAL E	EST. DEMA

						PAN	EL S	CHE	DULE					
	F	Designation: Location: Fed from: Voltage: Phase, wires: 5	8-8-A-2 ELEC CL 811 PH-HV-1 208/120V 3PH, 4W	1						PA	Mains OCPD R BUS R NEL MOU N. BUS BF	TYPE: M ATING: 12 ATING: 12 NTING: 12 NTING: SL RACING 10	CB 5 A 5 A JRFACE KAIC	
CKT NO.	LOAD DESCRIPTION	AN	IPS POLI	ES	CONN. PHAS (K)	LOAD SE A /A)	CONN PHA (K	. LOAD SE B VA)	CONN PHA (K	. LOAD ASE C VA)	POLES	AMPS	LOAD DE	ESCRIPTIO
1	REC: 8TH FLOOR BAY W-2	20	DA 1		0.7	0.7					1	20 A	REC: 8TH FLOOR BAY	W-1
3	REC: 8TH FLOOR BAY W-2	20	DA 1				0.7	0.7			1	20 A	REC: 8TH FLOOR BAY	W-1
5	REC: 8TH FLOOR BAY W-2	20	DA 1						0.7	0.9	1	20 A	REC: 8TH FLOOR BAY	W-1
7	REC: 8TH FLOOR BAY W-2, W-4	20	DA 1		1.1	1.1					1	20 A	REC: 8TH FLOOR BAY	W-1, W-3
9	REC: 8TH FLOOR BAY W-2, W-4	20	DA 1				1.1	1.1			1	20 A	REC: 8TH FLOOR BAY	W-1, W-3
11	REC: 8TH FLOOR BAY W-2, W-4	20	DA 1						1.1	1.1	1	20 A	REC: 8TH FLOOR BAY	W-1, W-3
13	REC: 8TH FLOOR BAY W-4	20	DA 1		0.9	0.9					1	20 A	REC: 8TH FLOOR BAY	W-3
15	REC: 8TH FLOOR BAY W-4	20	DA 1				0.9	0.7			1	20 A	REC: 8TH FLOOR BAY	W-3
17	REC: 8TH FLOOR BAY W-4	20	DA 1						0.9	0.7	1	20 A	REC: 8TH FLOOR BAY	W-3
19	REC: 8TH FLOOR BAY W-6	20	DA 1		0.7	1.1					1	20 A	REC: 8TH FLOOR BAY	W-5, W-7
21	REC: 8TH FLOOR BAY W-6	20	DA 1				0.7	1.1			1	20 A	REC: 8TH FLOOR BAY	W-5, W-7
23	REC: 8TH FLOOR BAY W-6	20	DA 1						0.7	1.1	1	20 A	REC: 8TH FLOOR BAY	W-5, W-7
25	REC: 8TH FLOOR BAY W-8	20	DA 1		1.1	1.1					1	20 A	REC: 8TH FLOOR BAY	W-5
27	REC: 8TH FLOOR BAY W-8	20	DA 1				1.1	1.1			1	20 A	REC: 8TH FLOOR BAY	W-5
29	REC: 8TH FLOOR BAY W-8	20	DA 1						1.1	1.1	1	20 A	REC: 8TH FLOOR BAY	W-5
31	REC: 8TH FLOOR BAY W-8	20	DA 1		0.0	1.3					1	20 A	REC: 8TH FLOOR BAY	W-7
33	REC: 8TH FLOOR BAY W-8	20	DA 1				0.0	1.3			1	20 A	REC: 8TH FLOOR BAY	W-7
35	REC: 8TH FLOOR BAY W-8	20	DA 1						0.0	1.3	1	20 A	REC: 8TH FLOOR BAY	W-7
37	SPARE	20	DA 1		0.0	0.0					1	20 A	SPARE	
39	SPARE	20	DA 1				0.0	0.0			1	20 A	SPARE	
41	SPARE	20	DA 1						0.0					
	T	OTAL LOAD PER TOTAL 3-PHAS	PHASE (KV E LOAD (KV	′A): ′A):	10.6	kVA	10.4 31.7	kVA ′ kVA	10.6	6 kVA				
LOAD CL	ASSIFICATION		CONN	I. LÒ	AD	DEN	IAND FAC	CTOR	DEN	IAND LOA	D			TOTALS
Power			0	VA			0.00%			0 VA			FANLL	
RECEPTA	CLE		316	80 VA	A		65.78%		2	20840 VA		TOTAL	CONNECTED LOAD (A):	88 A
													DEMANDED LOAD (A):	58 A
													EST DEMAND I OAD (A):	14 A 72 Δ
**NOTES:									1		1			1

					PAN	EL S	CHE	DULE					
	DESIGNAT LOCAT FED FR VOLT/ PHASE, WII	10N: 8-8-B- 10N: ELEC ROM: PH-H AGE: 208/12 RES: 3PH, 4	1 CL 833 /-1 20V 4W						PA	Mains Ocpd Ra Bus Ra Nel Moun N. Bus Bra	TYPE: MC ATING: 100 ATING: 100 ITING: 50 ACING 10	CB D A D A RFACE KAIC	
CKT NO.	LOAD DESCRIPTION	AMPS	POLES	CONN. PHA (K)	LOAD SE A /A)	CONN PHA (K	. LOAD .SE B VA)	CONN PHA (K	. LOAD SE C VA)	POLES	AMPS	LOAD DESCRIPTION	CKT NO.
1	REC: PRINTER 822	20 A	1	0.2	0.2					1	20 A	REC: PRINTER RM 822	2
3	REC: PRINTER 822	20 A	1			0.2	0.7			1	20 A	REC: OFFICE 820 & 821	4
5	REC: OFFICE 820 & 821	20 A	1					0.7	0.5	1	20 A	REC: COUNTERTOP ROOMS 823 & 823A	6
7	REC: WATER COOLER BREAK RM 823	20 A	1	0.2	0.2					1	20 A	REC: FRIDGE BREAK RM 823	8
9	REC: FRIDGE BREAK RM 823	20 A	1			0.2	0.2			1	20 A	REC: FRIDGE BREAK RM 823	10
11	REC: PRINTER WEST OPEN OFFICE	20 A	1					0.2	0.5	1	20 A	REC: WOMENS RM 837	12
13	REC: MENS RM 839 & CIRC C801	20 A	1	0.5	1.4					1	20 A	REC: CIRC C801 & SOUTH OPEN OFFICE	14
15	REC: FRIDGE - MOTHERS RM 836	20 A	1			1.1	0.7			1	20 A	REC: JC 834, VEST 835, MOTHERS RM 836 & TL	16
17	REC: WATER COOLER WEST OPEN OFFICE	20 A	1					0.2	0.2	1	20 A	REC: PRINTER WEST OPEN OFFICE	18
19	REC: WEST OPEN OFFICE	20 A	1	0.7	0.9					1	20 A	REC: SOUTH/WEST OPEN OFFICE	20
21	REC: OFFICE-SOUTH 804	20 A	1			1.3	0.2			1	20 A	REC: PRINTER WEST OPEN OFFICE	22
23	REC: WEST OPEN OFFICE	20 A	1					0.5	1.0	1	20 A	REC: COFFEE - KITCHENETTE 823A	24
25	REC: MICROWAVE - KITCHENETTE 823A	20 A	1	1.0	1.0					1	20 A	REC: COFFEE - KITCHENETTE 823A	26
27	REC: MICROWAVE - KITCHENETTE 823A	20 A	1			1.0	1.0			1	20 A	REC: MICROWAVE - KITCHENETTE 823A	28
29	REC: MICROWAVE - KITCHENETTE 823A	20 A	1					1.0	1.0	1	20 A	REC: MICROWAVE - KITCHENETTE 823A	30
31	REC: COFFEE - KITCHENETTE 823A	20 A	1	1.0	0.2					1	20 A	REC: PRINTER WEST OPEN OFFICE	32
33	REC: COFFEE - KITCHENETTE 823A	20 A	1			1.0	0.5			1	20 A	REC: WEST OPEN OFFICE	34
35	SPARE	20 A	1					0.0	0.0	1	20 A	SPARE	36
37	SPARE	20 A	1	0.0	0.0					1	20 A	SPARE	38
39	SPARE	20 A	1			0.0							40
41													42
	TOTAL LOA	D PER PHA	SE (KVA):	7.5	kVA	8.0	kVA	5.9	kVA				-1
	TOTAL 3-	PHASE LO	AD (KVA):		1	21.4	kVA			]			
LOAD CL	ASSIFICATION CLE		21420 V	<b>DAD</b> /A	DEN	73.34%	TOR	DEN	<b>/AND LOA</b> 15710 VA	۱D		PANEL TOTALS	
											TOTAL	CONNECTED LOAD (A): 59 A	
												DEMANDED LOAD (A): 44 A	
											S	PARE CAPACITY (25%): 11 A	
											TOTAL E	ST. DEMAND LOAD (A): 55 A	
**NOTES:													

55		207	1			1.1	1.1				207
35	REC: 8TH FLOOR BAY W-16	20 A	1					1.1	1.1	1	20 A
37	SPARE	20 A	1	0.0	0.7					1	20 A
39	SPARE	20 A	1			0.0	0.0			1	20 A
41	SPARE	20 A	1					0.0	0.0	1	20 A
	TOTAL LOAD	D PER PHA	SE (KVA):	12.8	kVA	13.3	kVA	12.4	4 kVA		1
	TOTAL 3-	PHASE LO	AD (KVA):			38.5	5 kVA				
LOAD CL	ASSIFICATION		CONN. L	DAD	DEN	MAND FAC	CTOR	DE	MAND LOA	D	
RECEPTA	ACLE		38520 \	/A		62.98%			24260 VA		
											TOTA
											TOTAL
										—	TUTAL
**NOTES	•										
NOTES.											

DESIGNATION: 8-8-B-2

LOCATION: ELEC CL 833 FED FROM: PH-HV-1

20 A

20 A 20 A

20 A

20 A

20 A

20 A 20 A

20 A

20 A 1

AMPS POLES CONN. LOAD PHASE A (KVA)

0.7 1.1

1.1 0.7 

\_\_\_\_\_

0.9 1.1

0.9 1.6

0.7 1.1 

1.1 1.1

VOLTAGE: 208/120V

PHASE, WIRES: 3PH, 4W

LOAD DESCRIPTION

1 REC: 8TH FLOOR BAY W-10

3 REC: 8TH FLOOR BAY W-10

5 REC: 8TH FLOOR BAY W-10

13 REC: 8TH FLOOR BAY W-12

15 REC: 8TH FLOOR BAY W-12

17 REC: 8TH FLOOR BAY W-12

25 REC: 8TH FLOOR BAY W-14

27 REC: 8TH FLOOR BAY W-14

29 REC: 8TH FLOOR BAY W-14

31 REC: 8TH FLOOR BAY W-16

33 REC: 8TH FLOOR BAY W-16

19 REC: 8TH FLOOR BAY W-14, W-16

21 REC: 8TH FLOOR BAY W-14, W-16

23 REC: 8TH FLOOR BAY W-14, W-16

7 REC: 8TH FLOOR BAY W-10, W-12

9 REC: 8TH FLOOR BAY W-10, W-12

11 REC: 8TH FLOOR BAY W-10, W-12

CKT NO.

					PAN	EL S	CHE	DULE						
	DE	ESIGNATION: 8-8-B-3 LOCATION: ELEC ( FED FROM: PH-HV- VOLTAGE: 208/12( ASE, WIRES: 3PH, 4)	CL 833 -1 DV W						PA	MAINS OCPD RA BUS RA NEL MOUN N. BUS BR	TYPE: MO ATING: 12 ATING: 12 ITING: SL ACING 10	CB 5 A 5 A IRFACE KAIC		
CKT NO.	LOAD DESCRIPTION	AMPS	POLES	CONN. PHA (K)	. LOAD SE A VA)	CONN PHA (K	I. LOAD ASE B VA)	CONN PHA (K	I. LOAD ASE C (VA)	POLES	AMPS	LOAD DE	ESCRIPTION	CKT N
1	REC: 8TH FLOOR BAY W-18	20 A	1	0.5	1.6					1	20 A	REC: 8TH FLOOR BAY	W-17	2
3	REC: 8TH FLOOR BAY W-18	20 A	1			0.5	0.5			1	20 A	REC: 8TH FLOOR BAY	W-17	4
5	REC: 8TH FLOOR BAY W-18	20 A	1					0.5	0.7	1	20 A	REC: 8TH FLOOR BAY	W-17	6
7	REC: 8TH FLOOR BAY W-18, S-4	20 A	1	1.1	0.7					1	20 A	REC: 8TH FLOOR BAY	W-17	8
9	REC: 8TH FLOOR BAY W-18, S-4	20 A	1			1.1	1.1			1	20 A	REC: 8TH FLOOR BAY	W-17, S-1	10
11	REC: 8TH FLOOR BAY W-18, S-4	20 A	1					1.1	1.1	1	20 A	REC: 8TH FLOOR BAY	W-17, S-1	12
13	REC: 8TH FLOOR BAY S-4	20 A	1	1.1	0.7					1	20 A	REC: 8TH FLOOR BAY	S-1	14
15	REC: 8TH FLOOR BAY S-4	20 A	1			1.1	1.1			1	20 A	REC: 8TH FLOOR BAY	S-1	16
17	REC: 8TH FLOOR BAY S-4	20 A	1					1.1	1.1	1	20 A	REC: 8TH FLOOR BAY	S-1	18
19	REC: 8TH FLOOR BAY S-5, S-6	20 A	1	0.9	0.9					1	20 A	REC: 8TH FLOOR BAY	S-1	20
21	REC: 8TH FLOOR BAY S-5, S-6	20 A	1			0.9	1.1			1	20 A	REC: 8TH FLOOR BAY	S-2, S-3	22
23	REC: 8TH FLOOR BAY S-5, S-6	20 A	1					0.9	1.1	1	20 A	REC: 8TH FLOOR BAY	S-2, S-3	24
25	REC: 8TH FLOOR BAY S-5	20 A	1	0.7	1.1					1	20 A	REC: 8TH FLOOR BAY	S-2, S-3	26
27	REC: 8TH FLOOR BAY S-5	20 A	1			0.7	0.9			1	20 A	REC: 8TH FLOOR BAY	S-2	28
29	REC: 8TH FLOOR BAY S-5	20 A	1					0.7	0.9	1	20 A	REC: 8TH FLOOR BAY	S-2	30
31	REC: 8TH FLOOR BAY S-6	20 A	1	0.9	0.7					1	20 A	REC: 8TH FLOOR BAY	S-2	32
33	REC: 8TH FLOOR BAY S-6	20 A	1			0.9	0.9			1	20 A	REC: 8TH FLOOR BAY	S-3	34
35	REC: 8TH FLOOR BAY S-6	20 A	1					0.9	0.9	1	20 A	REC: 8TH FLOOR BAY	S-3	36
37	SPARE	20 A	1	0.0	0.9					1	20 A	REC: 8TH FLOOR BAY	S-3	38
39	SPARE	20 A	1			0.0	0.0			1	20 A	SPARE		40
41	SPARE	20 A	1					0.0	0.0	1	20 A	SPARE		42
	тот т	AL LOAD PER PHAS	E (KVA): D (KVA):	11.9	kVA	10.8 33.7	3 kVA 7 kVA	11.(	0 kVA	_				
LOAD CL	ASSIFICATION		CONN. LO	DAD	DEI	MAND FAC	CTOR	DEI	MAND LOA	D		DANEL		
RECEPTA	CLE		33660 V	/Α		64.85%			21830 VA			FANEL		
											TOTAL	CONNECTED LOAD (A):	93 A	
												DEMANDED LOAD (A):	61 A	
												PARE CAPACITY (25%):	15 A 76 A	
**NOTES:		I						1		I				

PANEL SCHEDULE

CONN. LOAD PHASE B (KVA)

0.7 1.1

1.1 1.8

0.9 1.6

0.9 1.3

0.7 | 1.1 |

1.1 1.1

MAINS TYPE: MCB OCPD RATING: 125 A

BUS RATING: 125 A

PANEL MOUNTING: SURFACE

MIN. BUS BRACING 10 KAIC

CONN. LOAD POLES AMPS PHASE C (KVA)

0.7 1.1

11 | 11

0.9 1.4

0.9 1.3

0.7 1.1

\_\_\_\_

					PAN	EL S	CHE	DULE	1				
	DESIC LC FE V PHASE	CATION: 8-8-B- DCATION: ELEC D FROM: PH-H OLTAGE: 208/12	4 CL 833 V-1 20V						PA	MAINS OCPD RA BUS RA NEL MOUN	TYPE: MC TING: 100 TING: 100 ITING: SU ACING: 100	CB D A D A RFACE	
CKT NO.	LOAD DESCRIPTION	AMPS	POLES	CONN. PHA: (K)	LOAD SE A /A)	CONN PHA (K	. LOAD SE B VA)	CONN PHA (K	I. LOAD ASE C ASE (VA)	POLES	AMPS	LOAD DESCRIPTION	CKT NO
1	REC: 8TH FLOOR BAY S-7	20 A	1	0.9	0.9					1	20 A	REC: 8TH FLOOR BAY S-9	2
3	REC: 8TH FLOOR BAY S-7	20 A	1			0.9	0.9			1	20 A	REC: 8TH FLOOR BAY S-9	4
5	REC: 8TH FLOOR BAY S-7	20 A	1					0.9	0.9	1	20 A	REC: 8TH FLOOR BAY S-9	6
7	REC: 8TH FLOOR BAY S-7	20 A	1	0.9	0.5					1	20 A	REC: 8TH FLOOR BAY S-9	8
9	REC: 8TH FLOOR BAY S-7	20 A	1			0.9	0.5			1	20 A	REC: 8TH FLOOR BAY S-9	10
11	REC: 8TH FLOOR BAY S-7	20 A	1					0.9	0.5	1	20 A	REC: 8TH FLOOR BAY S-9	12
13	REC: 8TH FLOOR BAY S-8	20 A	1	0.9	0.5					1	20 A	REC: 8TH FLOOR BAY S-9	14
15	REC: 8TH FLOOR BAY S-8	20 A	1			0.9	0.5			1	20 A	REC: 8TH FLOOR BAY S-9	16
17	REC: 8TH FLOOR BAY S-8	20 A	1					0.9	0.5	1	20 A	REC: 8TH FLOOR BAY S-9	18
19	REC: 8TH FLOOR BAY S-8	20 A	1	0.7	0.9					1	20 A	REC: 8TH FLOOR BAY S-10	20
21	REC: 8TH FLOOR BAY S-8	20 A	1			0.7	0.9	-		1	20 A	REC: 8TH FLOOR BAY S-10	22
23	REC: 8TH FLOOR BAY S-8	20 A	1					0.7	0.9	1	20 A	REC: 8TH FLOOR BAY S-10	24
25	VAV 827,829,830,831,832	20 A	1	0.3	0.3					1	20 A	VAV 814, 815, 816, 817, 818 & 820	26
27	VAV 819, 821, 824, 825, 826, 828	20 A	1			0.3	0.9			1	20 A	REC: 8TH FLOOR BAY S-10	28
29	REC: 8TH FLOOR BAY S-8	20 A	1					0.5	0.9	1	20 A	REC: 8TH FLOOR BAY S-10	30
31	REC: 8TH FLOOR BAY S-8	20 A	1	0.5	0.9					1	20 A	REC: 8TH FLOOR BAY S-10	32
33	REC: 8TH FLOOR BAY S-8	20 A	1			0.5	0.0			1	20 A	SPARE	34
35	SPARE	20 A	1					0.0	0.0	1	20 A	SPARE	36
37	SPARE	20 A	1	0.0									38
39	SPARE	20 A	1			0.0							40
41													42
	TOTAL TOT.	LOAD PER PHA AL 3-PHASE LO	SE (KVA): AD (KVA):	8.3	kVA	8.0 24.1	kVA kVA	7.7	kVA				<b>i</b>
LOAD CL	ASSIFICATION		CONN. LC	DAD	DEN	AND FAC	TOR	DEI	MAND LOA	AD			
Motor			850 VA	l l		101.47%			863 VA			PANEL TOTALS	
RECEPTA	CLE		23220 VA			71.53%			16610 VA		TOTAL	CONNECTED LOAD (A): 67 A	
												DEMANDED LOAD (A): 48 A	



LOAD DESCRIPTION

CKT NO.

8

16

18

24

36

42

# **REVISED DRAW** 10/23/2024

	20 A	REC: 8TH FLOOR BAY W-11		18
	20 A	REC: 8TH FLOOR BAY W-11		20
	20 A	REC: 8TH FLOOR BAY W-13,	W-15	22
	20 A	REC: 8TH FLOOR BAY W-13,	W-15	24
	20 A	REC: 8TH FLOOR BAY W-13,	W-15	26
	20 A	REC: 8TH FLOOR BAY W-13		28
	20 A	REC: 8TH FLOOR BAY W-13		30
	20 A	REC: 8TH FLOOR BAY W-13		32
	20 A	REC: 8TH FLOOR BAY W-15		34
	20 A	REC: 8TH FLOOR BAY W-15		36
	20 A	REC: 8TH FLOOR BAY W-15		38
	20 A	SPARE		40
	20 A	SPARE		42
_	TOTAL		LS	
	τοται (		LS	
	TOTAL (	PANEL TOTAI	LS	
	TOTAL (	PANEL TOTAI CONNECTED LOAD (A): 107 A DEMANDED LOAD (A): 67 A PARE CAPACITY (25%): 17 A	_S	
	TOTAL ( SF TOTAL ES	PANEL TOTAI CONNECTED LOAD (A): 107 A DEMANDED LOAD (A): 67 A PARE CAPACITY (25%): 17 A ST. DEMAND LOAD (A): 84 A	_S	
-	TOTAL ( SF TOTAL ES	PANEL TOTAI CONNECTED LOAD (A): 107 A DEMANDED LOAD (A): 67 A PARE CAPACITY (25%): 17 A ST. DEMAND LOAD (A): 84 A	LS	
	TOTAL ( SF TOTAL E	PANEL TOTAI CONNECTED LOAD (A): 107 A DEMANDED LOAD (A): 67 A PARE CAPACITY (25%): 17 A ST. DEMAND LOAD (A): 84 A	_S	
	TOTAL ( SF TOTAL E	PANEL TOTAL CONNECTED LOAD (A): 107 A DEMANDED LOAD (A): 67 A PARE CAPACITY (25%): 17 A ST. DEMAND LOAD (A): 84 A	_\$ ^	
-	TOTAL ( SF TOTAL E	PANEL TOTAI CONNECTED LOAD (A): 107 A DEMANDED LOAD (A): 67 A PARE CAPACITY (25%): 17 A ST. DEMAND LOAD (A): 84 A	_S	
-	TOTAL C	PANEL TOTAI CONNECTED LOAD (A): 107 A DEMANDED LOAD (A): 67 A PARE CAPACITY (25%): 17 A ST. DEMAND LOAD (A): 84 A	_\$ 	
	TOTAL C	PANEL TOTAI CONNECTED LOAD (A): 107 A DEMANDED LOAD (A): 67 A PARE CAPACITY (25%): 17 A ST. DEMAND LOAD (A): 84 A	_S	
	TOTAL (	PANEL TOTAI CONNECTED LOAD (A): 107 A DEMANDED LOAD (A): 67 A PARE CAPACITY (25%): 17 A ST. DEMAND LOAD (A): 84 A	_S	
	TOTAL C	PANEL TOTAI CONNECTED LOAD (A): 107 A DEMANDED LOAD (A): 67 A PARE CAPACITY (25%): 17 A ST. DEMAND LOAD (A): 84 A	S	
	TOTAL (	PANEL TOTAI CONNECTED LOAD (A): 107 A DEMANDED LOAD (A): 67 A PARE CAPACITY (25%): 17 A ST. DEMAND LOAD (A): 84 A	_S	
	TOTAL C	PANEL TOTAI CONNECTED LOAD (A): 107 A DEMANDED LOAD (A): 67 A PARE CAPACITY (25%): 17 A ST. DEMAND LOAD (A): 84 A	_S	
	TOTAL C	PANEL TOTAI CONNECTED LOAD (A): 107 A DEMANDED LOAD (A): 67 A PARE CAPACITY (25%): 17 A ST. DEMAND LOAD (A): 84 A		
	TOTAL C	PANEL TOTAI CONNECTED LOAD (A): 107 A DEMANDED LOAD (A): 67 A PARE CAPACITY (25%): 17 A ST. DEMAND LOAD (A): 84 A	S	

LOAD DESCRIPTION

20 A REC: 8TH FLOOR BAY W-9

20 A REC: 8TH FLOOR BAY W-11

20 A REC: 8TH FLOOR BAY W-11

20 A REC: 8TH FLOOR BAY W-9, W-11

20 A REC: 8TH FLOOR BAY W-9, W-11

CKT NO.

6

8

10

14

16

FE	DCATION: ELEC ED FROM: PH-H OLTAGE: 208/12	CL 846 /-1 20V						РА	
PHASE LOAD DESCRIPTION	E, WIRES: 3PH, 4 AMPS	4W POLES	CONN. PHA: (K)	LOAD SE A /A)	CONN PHA (K	. LOAD SE B VA)	CONN PH <i>A</i> (K	MII I. LOAD ASE C AVA)	
REC: 8TH FLOOR BAY E-17	20 A	1	0.5	1.1					
REC: 8TH FLOOR BAY E-17	20 A	1			0.5	1.1			
REC: 8TH FLOOR BAY E-17	20 A	1					0.5	1.1	
REC: 8TH FLOOR BAY E-17, S-11	20 A	1	1.1	0.7					
REC: 8TH FLOOR BAY E-17, S-11	20 A	1			1.1	1.3			
REC: 8TH FLOOR BAY E-17, S-11	20 A	1					1.1	1.3	
REC: 8TH FLOOR BAY S-11	20 A	1	1.1	0.7					
REC: 8TH FLOOR BAY S-11	20 A	1			1.1	1.1			
REC: 8TH FLOOR BAY S-11	20 A	1					1.1	1.1	
REC: 8TH FLOOR BAY S-12, S-13	20 A	1	1.1	0.9					
REC: 8TH FLOOR BAY S-12, S-13	20 A	1			1.1	1.1			
REC: 8TH FLOOR BAY S-12, S-13	20 A	1					1.1	1.1	
REC: 8TH FLOOR BAY S-12	20 A	1	0.7	1.1					
REC: 8TH FLOOR BAY S-12	20 A	1			0.7	0.9			
REC: 8TH FLOOR BAY S-12	20 A	1					0.7	0.9	
REC: 8TH FLOOR BAY S-13	20 A	1	0.7	0.7					
REC: 8TH FLOOR BAY S-13	20 A	1			0.7	0.9			
REC: 8TH FLOOR BAY S-13	20 A	1					0.7	0.9	
SPARE	20 A	1	0.0	0.9					
SPARE	20 A	1			0.0	0.0			
SPARE	20 A	1					0.0	0.0	
TOTAL	LOAD PER PHA	SE (KVA):	11.3	kVA	11.5	kVA	11.5	5 kVA	
тот	AL 3-PHASE LO	AD (KVA):			34.4	kVA			
ASSIFICATION		CONN. LO	AD	DEN	AND FAC	TOR	DEI		
		04000 0	<u> </u>		04.0470				
	FE V PHASE LOAD DESCRIPTION	FED FROM:       PH-HV         VOLTAGE:       208/12         PHASE, WIRES:       3PH, 4         LOAD DESCRIPTION       AMPS         REC:       8TH FLOOR BAY E-17       20 A         REC:       8TH FLOOR BAY E-17       20 A         REC:       8TH FLOOR BAY E-17       20 A         REC:       8TH FLOOR BAY E-17, S-11       20 A         REC:       8TH FLOOR BAY S-11       20 A         REC:       8TH FLOOR BAY S-11       20 A         REC:       8TH FLOOR BAY S-12, S-13       20 A         REC:       8TH FLOOR BAY S-12, S-13       20 A         REC:       8TH FLOOR BAY S-12       20 A         REC:       8TH FLOOR BAY S-13       20 A         REC:       8TH FLOOR BAY S-13       20 A         REC:       8TH FLOO	FED FROM: PH-HV-1 VOLTAGE: 208/120V PHASE, WIRES: 3PH, 4W         LOAD DESCRIPTION       AMPS       POLES         REC: 8TH FLOOR BAY E-17       20 A       1         REC: 8TH FLOOR BAY E-17       20 A       1         REC: 8TH FLOOR BAY E-17       20 A       1         REC: 8TH FLOOR BAY E-17, S-11       20 A       1         REC: 8TH FLOOR BAY E-17, S-11       20 A       1         REC: 8TH FLOOR BAY E-17, S-11       20 A       1         REC: 8TH FLOOR BAY E-17, S-11       20 A       1         REC: 8TH FLOOR BAY E-17, S-11       20 A       1         REC: 8TH FLOOR BAY S-11       20 A       1         REC: 8TH FLOOR BAY S-11       20 A       1         REC: 8TH FLOOR BAY S-12, S-13       20 A       1         REC: 8TH FLOOR BAY S-12, S-13       20 A       1         REC: 8TH FLOOR BAY S-12, S-13       20 A       1         REC: 8TH FLOOR BAY S-12       20 A       1         REC: 8TH FLOOR BAY S-12       20 A       1         REC: 8TH FLOOR BAY S-13       20 A       1<	FED FROM: PH-HV-1 VOLTAGE: 208/120V PHASE, WIRES: 3PH, 4W         LOAD DESCRIPTION       AMPS       POLES       CONN. PHASE, (KV)         REC: 8TH FLOOR BAY E-17       20 A       1       0.5         REC: 8TH FLOOR BAY E-17       20 A       1       0.5         REC: 8TH FLOOR BAY E-17, 20 A       1       1       1         REC: 8TH FLOOR BAY E-17, S-11       20 A       1       1.1         REC: 8TH FLOOR BAY E-17, S-11       20 A       1       1.1         REC: 8TH FLOOR BAY E-17, S-11       20 A       1       1.1         REC: 8TH FLOOR BAY E-17, S-11       20 A       1       1.1         REC: 8TH FLOOR BAY S-11       20 A       1       1.1         REC: 8TH FLOOR BAY S-11       20 A       1       1.1         REC: 8TH FLOOR BAY S-12       20 A       1       1.1         REC: 8TH FLOOR BAY S-12, S-13       20 A       1       1.1         REC: 8TH FLOOR BAY S-12, S-13       20 A       1       1.1         REC: 8TH FLOOR BAY S-12       20 A       1       0.7         REC: 8TH FLOOR BAY S-12       20 A       1       0.7         REC: 8TH FLOOR BAY S-13       20 A       1       0.7         REC: 8TH FLOOR BAY S-13	FED FROM: PH-HV-1 VOLTAGE: 208/20V           PHASE, WIRES: 3PH, 4W           LOAD DESCRIPTION         AMPs         POLES         CONN. LOAD PHASE A (KVA)           REC: 8TH FLOOR BAY E-17         20 A         1         0.5         1.1           REC: 8TH FLOOR BAY E-17         20 A         1         0.5         1.1           REC: 8TH FLOOR BAY E-17         20 A         1         1         0.7           REC: 8TH FLOOR BAY E-17, S-11         20 A         1         1.1         0.7           REC: 8TH FLOOR BAY E-17, S-11         20 A         1         1.1         0.7           REC: 8TH FLOOR BAY E-17, S-11         20 A         1         1.1         0.7           REC: 8TH FLOOR BAY S-11         20 A         1         1.1         0.7           REC: 8TH FLOOR BAY S-11         20 A         1         1.1         0.7           REC: 8TH FLOOR BAY S-12         20 A         1         1.1         0.9           REC: 8TH FLOOR BAY S-12, S-13         20 A         1         1.1         0.7           REC: 8TH FLOOR BAY S-12         20 A         1         0.7         1.1           REC: 8TH FLOOR BAY S-12         20 A         1         0.7         1.1	FED FROM: PH-HV-1 UOLTAGE: 208/12/0V PHASE, WIRES: 3PH, 4W           LOAD DESCRIPTION         AMPS         POLES         CONN. LOAD PHASE A (KV)         CONN         DAD           REC: 8TH FLOOR BAY E-17         20 A         1         0.5         1.1         0.5           REC: 8TH FLOOR BAY E-17         20 A         1         0.5         1.0         0.5           REC: 8TH FLOOR BAY E-17, S-11         20 A         1         0.7         0.7           REC: 8TH FLOOR BAY E-17, S-11         20 A         1         1.0         0.7           REC: 8TH FLOOR BAY E-17, S-11         20 A         1         1.1         0.7           REC: 8TH FLOOR BAY E-17, S-11         20 A         1         1.1         0.7           REC: 8TH FLOOR BAY S-17, S-11         20 A         1         1.1         0.7           REC: 8TH FLOOR BAY S-13         20 A         1         1.1         0.7           REC: 8TH FLOOR BAY S-12, S-13         20 A         1         1.1         0.7           REC: 8TH FLOOR BAY S-12, S-13         20 A         1         0.7         1.1           REC: 8TH FLOOR BAY S-12, S-13         20 A         1         0.7         1.1           REC: 8TH FLOOR BAY S-12         20 A         <	FED FROM: PH-HU-1 VOLTAGE: 208/120V- PHASE, WIRES: 3PH, 4W           PLOAD DESCRIPTION         AMPS         POLES         CONN. LOAD PHASE A (KVA)           LOAD DESCRIPTION         AMPS         POLES         CONN. LOAD PHASE A (KVA)           REC: 8TH FLOOR BAY E-17         20 A         1         CONN. LOAD PHASE A (KVA)           REC: 8TH FLOOR BAY E-17, S-11         20 A         1         1         1           REC: 8TH FLOOR BAY E-17, S-11         20 A         1         1         1           REC: 8TH FLOOR BAY E-17, S-11         20 A         1         1         1           REC: 8TH FLOOR BAY S-11         20 A         1         1         1           REC: 8TH FLOOR BAY S-12, S-13         20 A         1         1           REC: 8TH FLOOR BAY S-12, S-13         20 A         1         1           REC: 8TH FLOOR BAY S-12, S-13         20 A         1 <th cols<="" td=""><td>FED FROM: PH-HPL-TUVE         VOLTAGE: 208/120V         PHASE, WRES: 3PH, 4W         CONN. LOAD DESCRIPTION       AMPS       CONN. LOAD PHASE A (KVA)       CONN. LOAD (KVA)       CONN. LOAD ON A       CONN. LOAD SPARE       CONN. LOAD       CONN. LOAD       CONN. LOAD       CONN. LOAD       CONN. LOAD         CONN. LOAD       CONN. LOAD       CONN. LOAD       CONN. LOAD         CONN. LOAD       CONN. LOAD       CONN. LOAD       CONN. LOAD       CONN. LOAD</td></th>	<td>FED FROM: PH-HPL-TUVE         VOLTAGE: 208/120V         PHASE, WRES: 3PH, 4W         CONN. LOAD DESCRIPTION       AMPS       CONN. LOAD PHASE A (KVA)       CONN. LOAD (KVA)       CONN. LOAD ON A       CONN. LOAD SPARE       CONN. LOAD       CONN. LOAD       CONN. LOAD       CONN. LOAD       CONN. LOAD         CONN. LOAD       CONN. LOAD       CONN. LOAD       CONN. LOAD         CONN. LOAD       CONN. LOAD       CONN. LOAD       CONN. LOAD       CONN. LOAD</td>	FED FROM: PH-HPL-TUVE         VOLTAGE: 208/120V         PHASE, WRES: 3PH, 4W         CONN. LOAD DESCRIPTION       AMPS       CONN. LOAD PHASE A (KVA)       CONN. LOAD (KVA)       CONN. LOAD ON A       CONN. LOAD SPARE       CONN. LOAD       CONN. LOAD       CONN. LOAD       CONN. LOAD       CONN. LOAD         CONN. LOAD       CONN. LOAD       CONN. LOAD       CONN. LOAD         CONN. LOAD       CONN. LOAD       CONN. LOAD       CONN. LOAD       CONN. LOAD

\* CONTROLLED CIRCUIT

					PAN	EL S	CHE	DULE	1					
	DESIGNAT LOCAT FED FI VOLT PHASE, WI	FION: 8-8-C- FION: ELEC ROM: PH-H AGE: 208/12 RES: 3PH, 4	-2 CL 846 V-1 20V 4W						PA	MAINS OCPD RA BUS RA NEL MOUN	TYPE: MO ATING: 10 ATING: 10 NTING: SU ACING 10	CB 0 A 0 A IRFACE KAIC		
CKT NO.	LOAD DESCRIPTION	AMPS	POLES	CONN. PHA (K)	. LOAD SE A VA)	CONN PHA (K)	. LOAD SE B VA)	CONN PH/ (K	I. LOAD Ase C (VA)	POLES	AMPS	LOAD DE	SCRIPTION	CKT NO.
1	REC: PRINTER 832	20 A	1	0.2	0.2					1	20 A	REC: PRINTER 832		2
3	REC: PRINTER 832	20 A	1			0.2	0.7			1	20 A	REC: OFFICE 830 & 831	*	4
5	REC: PRINTER 832	20 A	1					0.7	0.2	1	20 A	REC: PRINTER SOUTH/	EAST OPEN OFFICE	6
7	REC: PRINTER SOUTH/EAST OPEN OFFICE	20 A	1	0.2	0.2					1	20 A	REC: PRINTER SOUTH/	EAST OPEN OFFICE	8
9	REC: PRINTER SOUTH/EAST OPEN OFFICE	20 A	1			0.2	0.2			1	20 A	REC: PRINTER SOUTH/	EAST OPEN OFFICE	10
11									1.1	1	20 A	REC: SOUTH/EAST OPE	EN OFFICE	12
13	REC: SOUTH/EAST OPEN OFFICE	20 A	1	0.7										14
15	BAS PANELS IN EQUIP. RM	20 A	1			0.3	0.3			1	20 A	BAS PANELS IN EQUIP.	RM	16
17	REC: SOUTH/EAST OPEN OFFICE	20 A	1					1.1	1.1	1	20 A	REC: SOUTH/EAST OPE	EN OFFICE	18
19	FACP 8TH FLR	20 A	1	0.0	2.2					1	25 A	UPS FOR CCTV		20
21	RECEPTACLE	20 A	1			0.7	0.0			1	20 A	SPARE		22
23	SPARE	20 A	1					0.0	0.0	1	20 A	SPARE		24
25	SPARE	20 A	1	0.0										26
27	SPARE	20 A	1			0.0								28
29														30
31														32
33														34
35														36
37														38
39														40
41														42
	TOTAL LOA TOTAL 3	D PER PHA	SE (KVA): AD (KVA):	3.6	kVA	2.6	kVA kVA	4.1	kVA					
LOAD CL	ASSIFICATION		CONN. LC	DAD	DEM	MAND FAC	TOR	DEI	MAND LOA	D		DANEL		
Other			600 VA	١		100.00%			600 VA			PANEL	IUTALS	
RECEPTA	ACLE		9760 VA			100.00%			9760 VA		TOTAL	CONNECTED LOAD (A):	29 A	
												DEMANDED LOAD (A):	29 A	
												PARE CAPACITY (25%):	/ A 26 A	
											TUTALE	ST. DEMAND LOAD (A):	50 A	
**NOTES														

PANEL SCHEDULE

		DESIGNATION: 8-8-C- LOCATION: ELEC FED FROM: PH-HV VOLTAGE: 208/12 PHASE, WIRES: 3PH, 4	1 CL 846 /-1 20V IW						PA	Mains Ocpd Ra Bus Ra Nel Moun N. Bus Bra	TYPE: MC ATING: 129 ATING: 129 ATING: 129 ATING: 50 ACING 10	3B 5 A 5 A RFACE KAIC		
CKT NO.	LOAD DESCRIPTION	AMPS	POLES	CONN. PHA (K)	LOAD SE A /A)	CONN PHA (K	. LOAD SE B VA)	CONN PH/ (M	I. LOAD ASE C (VA)	POLES	AMPS	LOAD DI	ESCRIPTION	CKT NO.
1	REC: 8TH FLOOR BAY E-9	20 A	1	0.5	1.1					1	20 A	REC: 8TH FLOOR BAY	E-10	2
3	REC: 8TH FLOOR BAY E-9	20 A	1			0.5	1.1			1	20 A	REC: 8TH FLOOR BAY	E-10	4
5	REC: 8TH FLOOR BAY E-9	20 A	1					0.5	1.1	1	20 A	REC: 8TH FLOOR BAY	E-10	6
7	REC: 8TH FLOOR BAY E-9, E-11	20 A	1	1.1	0.5					1	20 A	REC: 8TH FLOOR BAY	E-10	8
9	REC: 8TH FLOOR BAY E-9, E-11	20 A	1			1.1	1.1			1	20 A	REC: 8TH FLOOR BAY	E-10, E-12	10
11	REC: 8TH FLOOR BAY E-9, E-11	20 A	1					1.1	1.1	1	20 A	REC: 8TH FLOOR BAY	E-10, E-12	12
13	REC: 8TH FLOOR BAY E-11	20 A	1	0.9	0.5					1	20 A	REC: 8TH FLOOR BAY	E-12	14
15	REC: 8TH FLOOR BAY E-11	20 A	1			0.9	1.1			1	20 A	REC: 8TH FLOOR BAY	E-12	16
17	REC: 8TH FLOOR BAY E-11	20 A	1					0.9	0.9	1	20 A	REC: 8TH FLOOR BAY	E-12	18
19	REC: 8TH FLOOR BAY E-13, E-15	20 A	1	0.9	0.9					1	20 A	REC: 8TH FLOOR BAY	E-12	20
21	REC: 8TH FLOOR BAY E-13, E-15	20 A	1			0.9	1.1			1	20 A	REC: 8TH FLOOR BAY	E-14, E-16	22
23	REC: 8TH FLOOR BAY E-13, E-15	20 A	1					0.9	1.1	1	20 A	REC: 8TH FLOOR BAY	E-14, E-16	24
25	REC: 8TH FLOOR BAY E-13	20 A	1	0.7	1.1					1	20 A	REC: 8TH FLOOR BAY	E-14, E-16	26
27	REC: 8TH FLOOR BAY E-13	20 A	1			0.7	0.9			1	20 A	REC: 8TH FLOOR BAY	E-14	28
29	REC: 8TH FLOOR BAY E-13	20 A	1					0.7	0.9	1	20 A	REC: 8TH FLOOR BAY	E-14	30
31	REC: 8TH FLOOR BAY E-15	20 A	1	1.1	0.9					1	20 A	REC: 8TH FLOOR BAY	E-14	32
33	REC: 8TH FLOOR BAY E-15	20 A	1			1.1	1.1			1	20 A	REC: 8TH FLOOR BAY	E-16	34
35	REC: 8TH FLOOR BAY E-15	20 A	1					1.1	1.1	1	20 A	REC: 8TH FLOOR BAY	E-16	36
37	SPARE	20 A	1	0.0	0.7					1	20 A	REC: 8TH FLOOR BAY	E-16	38
39	SPARE	20 A	1			0.0	0.0			1	20 A	SPARE		40
41	SPARE	20 A	1					0.0	0.0	1	20 A	SPARE		42
		TOTAL LOAD PER PHAS	SE (KVA):	11.0	kVA	11.5	5 kVA	11.	3 kVA					
		TOTAL 3-PHASE LOA	AD (KVA):			33.8	3 kVA							
			22940 V		DEN		TOR	DE		4D		PANEL	TOTALS	
RECEPTA	ULE		3304U V	A		04.70%			21920 VA		τοται		Q1 Δ	
											IUIAL	DEMANDED LOAD (A):	61 A	
											S	PARE CAPACITY (25%):	15 A	
											TOTAL E	ST. DEMAND LOAD (A):	76 A	

MAINS TYPE:         MCB           OCPD RATING:         125 A           BUS RATING:         125 A           BUS RATING:         SURFACE           BUS RATING:         SURFACE           BUS RATING:         SURFACE           BUS RATING:         CKT NO.           1         20 A           20 A         REC: 8TH FLOOR BAY E-18           1         20 A           1         20 A           20 A         REC: 8TH FLOOR BAY E-18           1         20 A           1         20 A           20 A         REC: 8TH FLOOR BAY E-18, 514           1         20 A           1         20 A           20 A         REC: 8TH FLOOR BAY E-18, 514           1         20 A           20 A         REC: 8TH FLOOR BAY E-18, 514           1         20 A           20 A         REC: 8TH FLOOR BAY S-14           1         20 A           20 A         RECEPTACLE           1         20 A           20 A         RECEPTACLE           1         20 A           20 A         RECEPTACLE           1         20 A           1         20 A </th <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th>																
OCPD RATING: 125 A BUS RATING: 125 A ELMOUNTING: SURFACE BUS BRACING 10 KAIC POLES AMPS CLOAD DESCRIPTION CKT NC 1 20 A REC: 8TH FLOOR BAY E-18 2 1 20 A REC: 8TH FLOOR BAY E-18 4 1 20 A REC: 8TH FLOOR BAY E-18 8 1 20 A REC: 8TH FLOOR BAY E-18 8 1 20 A REC: 8TH FLOOR BAY E-18 8-14 10 1 20 A REC: 8TH FLOOR BAY E-18, S-14 10 1 20 A REC: 8TH FLOOR BAY E-18, S-14 10 1 20 A REC: 8TH FLOOR BAY E-18, S-14 10 1 20 A REC: 8TH FLOOR BAY S-14 16 1 20 A REC: 8TH FLOOR BAY S-14 16 1 20 A REC: 8TH FLOOR BAY S-14 20 1 20 A REC: 8TH FLOOR BAY S-14 20 1 20 A RECEPTACLE 22 1 20 A RECEPTACLE 22 1 20 A RECEPTACLE 23 1 20 A RECEPTACLE 30 1 20 A RECEPTACLE 30 1 20 A RECEPTACLE 30 1 20 A RECEPTACLE 30 1 20 A RECEPTACLE 32 1 20 A RECEPTACLE 34 1 20 A RECEPTACLE 34 1 20 A SPARE 40 1 20 A SPARE 40	MAINS	TYPE: MC	В													
BUS RATING: 125 A         LOAD DESCRIPTION         CKT NO.           1         20A         REC: 8TH FLOOR BAY E-18         2           1         20A         REC: 8TH FLOOR BAY E-18         4           1         20A         REC: 8TH FLOOR BAY E-18         4           1         20A         REC: 8TH FLOOR BAY E-18         6           1         20A         REC: 8TH FLOOR BAY E-18, \$-14         10           1         20A         REC: 8TH FLOOR BAY E-18, \$-14         10           1         20A         REC: 8TH FLOOR BAY E-18, \$-14         10           1         20A         REC: 8TH FLOOR BAY E-18, \$-14         10           1         20A         REC: 8TH FLOOR BAY S-14         16           1         20A         REC: 8TH FLOOR BAY S-14         20           1         20A         RECEPTACLE         22           1         20A         RECEPTACLE         24           1         20A         RECEPTACLE         30           1         20A         RECEPTACLE         32           1         20A         RECEPTACLE         36           1         20A         RECEPTACLE         36           1         20A         RECEPTAC	OCPD R	CPD RATING: 125 A BUS RATING: 125 A														
Delession         AMPS         Load Description         CKT NO.           1         20 A         REC: 8TH FLOOR BAY E-18         2           1         20 A         REC: 8TH FLOOR BAY E-18         4           1         20 A         REC: 8TH FLOOR BAY E-18         4           1         20 A         REC: 8TH FLOOR BAY E-18, S-14         10           1         20 A         REC: 8TH FLOOR BAY E-18, S-14         10           1         20 A         REC: 8TH FLOOR BAY E-18, S-14         10           1         20 A         REC: 8TH FLOOR BAY E-18, S-14         10           1         20 A         REC: 8TH FLOOR BAY E-18, S-14         16           1         20 A         REC: 8TH FLOOR BAY S-14         16           1         20 A         REC: 8TH FLOOR BAY S-14         20           1         20 A         RECEPTACLE         24           1         20 A         RECEPTACLE         26           1         20 A         RECEPTACLE         36           1		ATING: 125														
POLES         AMPS         LOAD DESCRIPTION         CKT NO.           1         20 A         REC: 8TH FLOOR BAY E-18         2           1         20 A         REC: 8TH FLOOR BAY E-18         4           1         20 A         REC: 8TH FLOOR BAY E-18         4           1         20 A         REC: 8TH FLOOR BAY E-18         6           1         20 A         REC: 8TH FLOOR BAY E-18, S-14         10           1         20 A         REC: 8TH FLOOR BAY E-18, S-14         10           1         20 A         REC: 8TH FLOOR BAY E-18, S-14         14           1         20 A         REC: 8TH FLOOR BAY S-14         14           1         20 A         REC: 8TH FLOOR BAY S-14         16           1         20 A         RECEPTACLE         26           1         20 A         RECEPTACLE         28           1         20 A         RECEPTACLE         30           1         20 A         RECEPTACLE         32           1         20 A         RECEPTACLE         32           1         20 A         RECEPTACLE         36           1         20 A         RECEPTACLE         36           1         20 A	BUSBR	ACING 101														
I         20 A         REC: 8TH FLOOR BAY E-18         2           1         20 A         REC: 8TH FLOOR BAY E-18         4           1         20 A         REC: 8TH FLOOR BAY E-18         6           1         20 A         REC: 8TH FLOOR BAY E-18, S-14         10           1         20 A         REC: 8TH FLOOR BAY E-18, S-14*         10           1         20 A         REC: 8TH FLOOR BAY E-18, S-14*         10           1         20 A         REC: 8TH FLOOR BAY S-14         14           1         20 A         REC: 8TH FLOOR BAY S-14         16           1         20 A         REC: 8TH FLOOR BAY S-14         16           1         20 A         RECEPTACLE         26           1         20 A         RECEPTACLE         26           1         20 A         RECEPTACLE         30           1         20 A         RECEPTACLE         32           1         20 A         RECEPTACLE         32           1         20 A         RECEPTACLE         36           1         20 A         RECEPTACLE         36           1         20 A         SPARE 2A         A           1         20 A         SPARE	POLES	AMPS		LOAD DE	ESCRIPTION		CKT NO.									
Image: 1         20 A         REC: 8TH FLOOR BAY E-18         2           1         20 A         REC: 8TH FLOOR BAY E-18         4           1         20 A         REC: 8TH FLOOR BAY E-18         6           1         20 A         REC: 8TH FLOOR BAY E-18, S-14         10           1         20 A         REC: 8TH FLOOR BAY E-18, S-14         10           1         20 A         REC: 8TH FLOOR BAY E-18, S-14         10           1         20 A         REC: 8TH FLOOR BAY S-14         16           1         20 A         REC: 8TH FLOOR BAY S-14         16           1         20 A         REC: 8TH FLOOR BAY S-14         16           1         20 A         RECEPTACLE         18           1         20 A         RECEPTACLE         22           1         20 A         RECEPTACLE         24           1         20 A         RECEPTACLE         30           1         20 A         RECEPTACLE         32           1         20 A         RECEPTACLE         34           1         20 A         RECEPTACLE         38           1         20 A         RECEPTACLE         38           1         20 A         SPARE </th <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th>																
1     20A     REC: 81H FLOOR BAY E-18     4       1     20A     REC: 81H FLOOR BAY E-18     4       1     20A     REC: 81H FLOOR BAY E-18     8       1     20A     REC: 81H FLOOR BAY E-18, S-14     10       1     20A     REC: 81H FLOOR BAY E-18, S-14     10       1     20A     REC: 81H FLOOR BAY E-18, S-14     10       1     20A     REC: 81H FLOOR BAY S-14     14       1     20A     REC: 81H FLOOR BAY S-14     16       1     20A     REC: 81H FLOOR BAY S-14     16       1     20A     REC: 81H FLOOR BAY S-14     20       1     20A     REC: 81H FLOOR BAY S-14     20       1     20A     REC: 81H FLOOR BAY S-15     28       1     20A     REC: 81H FLOOR BAY S-15'     28       1     20A     RECEPTACLE     30       1     20A     RECEPTACLE     32       1     20A     RECEPTACLE     36       1     20A     RECEPTACLE     36       1     20A     RECEPTACLE     36       1     20A     RECEPTACLE     36       1     20A     SPARE     40       1     20A     SPARE     42   PANEL DIRECTORY	4	20. 4			F 40		0	-								
1       20 A       REC: 81H FLOOR BAY E-18*       6         1       20 A       REC: 81H FLOOR BAY E-18, S-14       10         1       20 A       REC: 81H FLOOR BAY E-18, S-14*       12         1       20 A       REC: 81H FLOOR BAY S-14       14         1       20 A       REC: 81H FLOOR BAY S-14       16         1       20 A       REC: 81H FLOOR BAY S-14       16         1       20 A       REC: 81H FLOOR BAY S-14       20         1       20 A       RECEPTACLE       22         1       20 A       RECEPTACLE       24         1       20 A       RECEPTACLE       26         1       20 A       RECEPTACLE       24         1       20 A       RECEPTACLE       30         1       20 A       RECEPTACLE       30         1       20 A       RECEPTACLE       34         1       20 A       RECEPTACLE       36         1       20 A       SPARE       40         1 <td< th=""><th>1</th><th>20 A</th><th>REC: OTH F</th><th></th><th>E-10 E 18</th><th></th><th>2</th><th>-</th></td<>	1	20 A	REC: OTH F		E-10 E 18		2	-								
Image: Start FLOOR BAY E-18         Image: Start FLOOR BAY E-18, S-14         Image: Start FLOOR BAY E-18, S-14         Image: Start FLOOR BAY S-14         Image: Start FLOOR FLOOR Start FLOOR	1	20 A	REC: 8TH F		E-18 *		6									
1       20 A       REC: 8TH FLOOR BAY E-18, S-14       10         1       20 A       REC: 8TH FLOOR BAY S-14       14         1       20 A       REC: 8TH FLOOR BAY S-14       14         1       20 A       REC: 8TH FLOOR BAY S-14       16         1       20 A       REC: 8TH FLOOR BAY S-14       16         1       20 A       RECEPTACLE       18         1       20 A       RECEPTACLE       22         1       20 A       RECEPTACLE       24         1       20 A       RECEPTACLE       30         1       20 A       RECEPTACLE       34         1       20 A       RECEPTACLE       36         1       20 A       SPARE       40         1       20 A       SPARE	1	20 A	REC: 8TH F	-												
1       20 A       REC: 8TH FLOOR BAY S-14       12         1       20 A       REC: 8TH FLOOR BAY S-14       14         1       20 A       REC: 8TH FLOOR BAY S-14       16         1       20 A       RECEPTACLE       18         1       20 A       RECEPTACLE       12         1       20 A       RECEPTACLE       22         1       20 A       RECEPTACLE       22         1       20 A       RECEPTACLE       24         1       20 A       RECEPTACLE       26         1       20 A       RECEPTACLE       26         1       20 A       RECEPTACLE       30         1       20 A       RECEPTACLE       32         1       20 A       RECEPTACLE       34         1       20 A       RECEPTACLE       38         1       20 A       RECEPTACLE       38         1       20 A       RECEPTACLE       38         1       20 A       SPARE       40         1       20 A       SPARE       40         1       20 A       SPARE       54         DEMANDED LOAD (A):       62 A       SPARE         <	1	20 A	REC: 8TH F	-												
1       20 A       REC: 8TH FLOOR BAY S-14       14         1       20 A       REC: 8TH FLOOR BAY S-14       16         1       20 A       RECEPTACLE       18         1       20 A       RECEPTACLE       22         1       20 A       RECEPTACLE       22         1       20 A       RECEPTACLE       24         1       20 A       RECEPTACLE       24         1       20 A       RECEPTACLE       26         1       20 A       RECEPTACLE       26         1       20 A       RECEPTACLE       30         1       20 A       RECEPTACLE       32         1       20 A       RECEPTACLE       36         1       20 A       RECEPTACLE       36         1       20 A       RECEPTACLE       38         1       20 A       RECEPTACLE       38         1       20 A       SPARE       40         1       20 A       SPARE       40         1       20 A       SPARE       54         DEMANDED LOAD (A):       55 A       5A         DEMANDEL DIRECTORY       8-8-A-1       8-8-B-2       8-8-B-C	1	20 A	REC: 8TH F	LOOR BAY	E-18, S-14 *		12	_								
1       20 A       REC: 8TH FLOOR BAY S-14       16         1       20 A       RECEPTACLE       18         1       20 A       RECEPTACLE       22         1       20 A       RECEPTACLE       24         1       20 A       RECEPTACLE       24         1       20 A       RECEPTACLE       24         1       20 A       RECEPTACLE       26         1       20 A       RECEPTACLE       26         1       20 A       RECEPTACLE       30         1       20 A       RECEPTACLE       32         1       20 A       RECEPTACLE       34         1       20 A       RECEPTACLE       36         1       20 A       RECEPTACLE       38         1       20 A       SPARE       40         1       20 A       SPARE       10 ADDADA         SPARE	1	20 A	REC: 8TH F	LOOR BAY	S-14		14	-								
1       20 A       RECEPTACLE       18         1       20 A       REC: 8TH FLOOR BAY S-14       20         1       20 A       RECEPTACLE       22         1       20 A       RECEPTACLE       24         1       20 A       RECEPTACLE       24         1       20 A       RECEPTACLE       24         1       20 A       RECEPTACLE       26         1       20 A       RECEPTACLE       30         1       20 A       RECEPTACLE       32         1       20 A       RECEPTACLE       32         1       20 A       RECEPTACLE       32         1       20 A       RECEPTACLE       34         1       20 A       RECEPTACLE       38         1       20 A       RECEPTACLE       38         1       20 A       RECEPTACLE       38         1       20 A       SPARE       40         1       20 A       SPARE       40         1       20 A       SPARE       42         PANEL TOTALS         TOTAL CONNECTED LOAD (A):       55 A         DEMANDED LOAD (A):       52 A         SPARE	1	20 A	REC: 8TH F	LOOR BAY	S-14		16	-								
1       20 A       REC: 8TH FLOOR BAY S-14       20         1       20 A       RECEPTACLE       22         1       20 A       RECEPTACLE       24         1       20 A       RECEPTACLE       24         1       20 A       RECEPTACLE       26         1       20 A       RECEPTACLE       26         1       20 A       RECEPTACLE       30         1       20 A       RECEPTACLE       32         1       20 A       RECEPTACLE       32         1       20 A       RECEPTACLE       34         1       20 A       RECEPTACLE       36         1       20 A       RECEPTACLE       38         1       20 A       SPARE       40         1       20 A       SPARE       40         1       20 A       SPARE       42         0       PANEL TOTALS       15 A         1       TOTAL CONNECTED LOAD (A):       55 A         0       SPARE CAPACITY (25%):       15 A         1       TOTAL EST. DEMAND LOAD (A):       77 A         1       SPARE       8-8-A-1       8-8-B-2       8-8-C         8-8-A-1       <	1	20 A	RECEPTAC	LE			18									
1       20 A       RECEPTACLE       22         1       20 A       RECEPTACLE       24         1       20 A       RECEPTACLE       26         1       20 A       RECEPTACLE       26         1       20 A       RECEPTACLE       26         1       20 A       RECEPTACLE       30         1       20 A       RECEPTACLE       32         1       20 A       RECEPTACLE       32         1       20 A       RECEPTACLE       34         1       20 A       RECEPTACLE       36         1       20 A       RECEPTACLE       38         1       20 A       RECEPTACLE       38         1       20 A       SPARE       40         1       20 A       SPARE       42         0       PANEL TOTALS       42         1       20 A       SPARE       42         1       20 A       SPARE       42         1       TOTAL CONNECTED LOAD (A):       55 A         DEMANDED LOAD (A):       62 A       54         SPARE       DIRECTORY       8-8-A-1         VING       8-8-A-1       8-8-B-2       8-8-C	1	20 A	REC: 8TH F	LOOR BAY	S-14		20									
1       20A       RECEPTACLE       24         1       20A       RECEPTACLE       26         1       20A       RECEPTACLE       28         1       20A       RECEPTACLE       30         1       20A       RECEPTACLE       30         1       20A       RECEPTACLE       32         1       20A       RECEPTACLE       34         1       20A       RECEPTACLE       34         1       20A       RECEPTACLE       36         1       20A       RECEPTACLE       36         1       20A       RECEPTACLE       38         1       20A       RECEPTACLE       38         1       20A       SPARE       40         1       20A       SPARE       42         PANEL TOTALS         TOTAL CONNECTED LOAD (A):       95 A         DEMANDED LOAD (A):       95 A       54         O       PANEL TOTALS         TOTAL EST. DEMAND LOAD (A):       77 A         SPARE CAPACITY (25%):       15 A         SPARE CAPACITY (25%):       15 A         SPARE A-A-1       8-8-B-2       8-8-C         <	1	20 A	RECEPTAC	LE			22									
1       20 A       RECEPTACLE       26         1       20 A       RECE 3TH FLOOR BAY S-15*       28         1       20 A       RECEPTACLE       30         1       20 A       RECEPTACLE       32         1       20 A       RECEPTACLE       32         1       20 A       RECEPTACLE       34         1       20 A       RECEPTACLE       36         1       20 A       RECEPTACLE       38         1       20 A       SPARE       40         1       20 A       SPARE       42         PANEL TOTALS         TOTAL CONNECTED LOAD (A): 95 A         DEMANDED LOAD (A):       95 A         DEMANDED LOAD (A):       77 A         Image: Spare CAPACITY (25%):       15 A         Image: Total EST. DEMAND LOAD (A):       77 A         Image: Spare CAPACITY (25%):       15 A         Image: Spare CAPACITY (25%):       16 A         Image: Spare CAPACITY (25%):       16 A         Image: S	1	20 A	RECEPTAC	LE			24									
1       20 A       REC: 8TH FLOOR BAY S-15*       28         1       20 A       RECEPTACLE       30         1       20 A       RECEPTACLE       32         1       20 A       RECEPTACLE       32         1       20 A       RECEPTACLE       32         1       20 A       RECEPTACLE       36         1       20 A       RECEPTACLE       36         1       20 A       RECEPTACLE       38         1       20 A       RECEPTACLE       38         1       20 A       RECEPTACLE       38         1       20 A       SPARE       40         1       20 A       SPARE       42         PANEL TOTALS         TOTAL CONNECTED LOAD (A): 95 A         DEMANDED LOAD (A):       52 A         SPARE CAPACITY (25%):       15 A         TOTAL EST. DEMAND LOAD (A):       77 A         PANEL DIRECTORY         VING       8-8-A-1       8-8-B-2       8-8-C         8-8-A-2       8-8-B-3       8-8-C         8-8-A-2       8-8-B-3       8-8-C         8-8-A-2       8-8-B-3       8-8-C	1	20 A	RECEPTAC	LE			26									
1       20 A       RECEPTACLE       30         1       20 A       RECEPTACLE       32         1       20 A       RECEPTACLE       34         1       20 A       RECEPTACLE       36         1       20 A       RECEPTACLE       36         1       20 A       RECEPTACLE       36         1       20 A       RECEPTACLE       38         1       20 A       SPARE       40         1       20 A       SPARE       40         1       20 A       SPARE       42         PANEL TOTALS         TOTAL CONNECTED LOAD (A): 95 A         DEMANDED LOAD (A):       62 A         SPARE CAPACITY (25%): 15 A         TOTAL EST. DEMAND LOAD (A):       77 A         PANEL DIRECTORY         SPARE         VING         8-8-A-1       8-8-B-2       8-8-C         8-8-A-2       8-8-B-3       8-8-C         8-8-A-2       8-8-B-3       8-8-C         8-8-A-2       8-8-B-3       8-8-C	1	20 A	REC: 8TH F	LOOR BAY	S-15 *		28	-								
1       20 A       RECEPTACLE       32         1       20 A       RECEPTACLE       34         1       20 A       RECEPTACLE       36         1       20 A       RECEPTACLE       38         1       20 A       RECEPTACLE       38         1       20 A       SPARE       40         1       20 A       SPARE       42         0       PANEL TOTALS       42         0       PANEL CONNECTED LOAD (A):       95 A         0       DEMANDED LOAD (A):       62 A         SPARE CAPACITY (25%):       15 A         1       TOTAL EST. DEMAND LOAD (A):       77 A         1       O       PANEL DIRECTORY         8-8-A-1       8-8-B-2       8-8-C         8-8-A-1       8-8-B-2       8-8-C         8-8-A-2       8-8-B-3       8-8-C         8-8-A-2       8-8-B-3       8-8-C	1	20 A	RECEPTAC	30	-											
1       20 A       RECEPTACLE       34         1       20 A       RECEPTACLE       36         1       20 A       RECEPTACLE       38         1       20 A       SPARE       40         1       20 A       SPARE       40         1       20 A       SPARE       42         PANEL TOTALS         0       PANEL TOTALS         0       PANEL TOTALS         0       PANEL TOTALS         0       PANEL CONNECTED LOAD (A): 95 A         0       DEMANDED LOAD (A): 95 A         0       DEMANDED LOAD (A): 15 A         1       TOTAL EST. DEMAND LOAD (A): 77 A         0       PANEL DIRECTORY         0       SPARE CAPACITY (25%): 15 A         1       TOTAL EST. DEMAND LOAD (A): 77 A         0       SPARE MARE         1       DEMAND LOAD (A): 77 A         1       SPARE SPARE         8-8-A-1       8-8-B-2       8-8-C         8-8-A-2       8-8-B-3       8-8-C         8-8-A-2       8-8-B-3       8-8-C         8-8-A-2 <td< th=""><th>1</th><th>20 A</th><th>RECEPTAC</th><th>-</th></td<>	1	20 A	RECEPTAC	-												
1       20 A       RECEPTACLE       36         1       20 A       RECEPTACLE       38         1       20 A       SPARE       40         1       20 A       SPARE       40         1       20 A       SPARE       42         PANEL TOTALS         TOTAL CONNECTED LOAD (A):       95 A         DEMANDED LOAD (A):       62 A         SPARE CAPACITY (25%):       15 A         TOTAL EST. DEMAND LOAD (A):       77 A         Image: Capacity (25%):       15 A         TOTAL EST. DEMAND LOAD (A):       77 A         Image: Capacity (25%):       15 A         TOTAL EST. DEMAND LOAD (A):       77 A         Image: Capacity (25%):       15 A         TOTAL EST. DEMAND LOAD (A):       77 A         Image: Capacity (25%):       15 A         TOTAL EST. DEMAND LOAD (A):       77 A         Image: Capacity (25%):       15 A         TOTAL EST. DEMAND LOAD (A):       77 A         Image: Capacity (25%):       15 A         Image: Capacity (25%):       16 A	1	20 A	RECEPTAC													
1       20 A       RECEPTACLE       38         1       20 A       SPARE       40         1       20 A       SPARE       42         PANEL TOTALS         D         PANEL TOTALS         TOTAL CONNECTED LOAD (A): 95 A         DEMANDED LOAD (A): 62 A         SPARE CAPACITY (25%): 15 A         TOTAL EST. DEMAND LOAD (A): 77 A         PANEL DIRECTORY         VING         8-8-A-1       8-8-B-2       8-8-C         8-8-A-2       8-8-B-3       8-8-C         8-8-A-2       8-8-B-3       8-8-C	1	20 A	RECEPTAC	-												
1     20 A     SPARE     40       1     20 A     SPARE     42       0     PANEL TOTALS     42       0     PANEL TOTALS       1     DEMANDED LOAD (A):     95 A       0     DEMANDED LOAD (A):     62 A       SPARE CAPACITY (25%):     15 A       1     TOTAL EST. DEMAND LOAD (A):     77 A       1     Image: Spare Capacity (25%):     15 A       1     Image: Spare Capacity (25%):     16 A	1	20 A	RECEPTAC	LE	-											
I       20A       SPARE       42         PANEL TOTALS       Image: Spare capacity (25%):       15 A         I	1	20 A	SPARE				40	-								
PANEL TOTALS TOTAL CONNECTED LOAD (A): 95 A DEMANDED LOAD (A): 62 A SPARE CAPACITY (25%): 15 A TOTAL EST. DEMAND LOAD (A): 77 A TOTAL EST. DEMAND LOAD (A): 77 A PANEL DIRECTORY 8-8-A-1 8-8-B-2 8-8-C 8-8-A-2 8-8-B-3 8-8-C 8-8-A-2 8-8-B-3 8-8-C	I	20 A	SPARE				42	-								
PANEL TOTALS         TOTAL CONNECTED LOAD (A):       95 A         DEMANDED LOAD (A):       62 A         SPARE CAPACITY (25%):       15 A         TOTAL EST. DEMAND LOAD (A):       77 A         PANEL DIRECTORY         VING       8-8-A-1       8-8-B-2       8-8-C         8-8-A-2       8-8-B-3       8-8-C         8-8-A-1       8-8-B-3       8-8-C																
TOTAL CONNECTED LOAD (A):       95 A         DEMANDED LOAD (A):       62 A         SPARE CAPACITY (25%):       15 A         TOTAL EST. DEMAND LOAD (A):       77 A         PANEL DIRECTORY         8-8-A-1       8-8-B-2       8-8-C         8-8-A-2       8-8-B-3       8-8-C         8-8-A-1       8-8-B-3       8-8-C         8-8-A-1       8-8-B-3       8-8-C	)			PANEL	TOTALS			-								
DEMANDED LOAD (A):         62 A           SPARE CAPACITY (25%):         15 A           TOTAL EST. DEMAND LOAD (A):         77 A           PANEL DIRECTORY           VING         8-8-A-1         8-8-B-2         8-8-C           8-8-A-2         8-8-B-3         8-8-C           8-8-A-1         8-8-B-3         8-8-C           8-8-A-1         8-8-B-3         8-8-C		τοται (			95 A			-								
SPARE CAPACITY (25%):         15 A           TOTAL EST. DEMAND LOAD (A):         77 A           PANEL DIRECTORY           VING           8-8-A-1         8-8-B-2           8-8-A-1         8-8-B-3           8-8-A-2         8-8-B-3           8-8-A-1         8-8-B-3           8-8-A-1         8-8-B-3           8-8-A-1         8-8-B-3		TOTAL	DEMANDED	LOAD (A):	62 A			-								
TOTAL EST. DEMAND LOAD (A):       77 A         PANEL DIRECTORY         VING         8-8-A-1       8-8-B-2         8-8-A-2       8-8-B-3         8-8-A-1       8-8-B-3         8-8-A-1       8-8-B-3         8-8-A-1       8-8-B-3         8-8-A-1       8-8-B-3		SI	PARE CAPA	CITY (25%):	15 A											
PANEL DIRECTORY         8-8-A-1       8-8-B-2       8-8-C         8-8-A-2       8-8-B-3       8-8-C         8-8-A-1       8-8-B-3       8-8-C		TOTAL E	ST. DEMAND	LOAD (A):	77 A			-								
PANEL DIRECTORY         8-8-A-1       8-8-B-2       8-8-C         8-8-A-2       8-8-B-3       8-8-C         8-8-A-1       8-8-B-3       8-8-C								-								
VING 8-8-A-1 8-8-B-2 8-8-C 8-8-A-2 8-8-B-3 8-8-C 8-8-B-1 8-8-B-3 8-8-C								-								
PANEL DIRECTORY         8-8-A-1       8-8-B-2       8-8-C         8-8-A-2       8-8-B-3       8-8-C         8-8-B-1       8-8-B-3       8-8-C																
VING 8-8-A-1 8-8-B-2 8-8-C 8-8-A-2 8-8-B-3 8-8-C 8-8-B-1 8-8-B-3 8-8-C																
PANEL DIRECTORY         8-8-A-1       8-8-B-2       8-8-C         8-8-A-2       8-8-B-3       8-8-C         8-8-B-1       8-8-B-4       8-8-C																
PANEL DIRECTORY         8-8-A-1       8-8-B-2       8-8-C         8-8-A-2       8-8-B-3       8-8-C         8-8-B-1       8-8-B-4       8-8-C																
PANEL DIRECTORY         VING       8-8-A-1       8-8-B-2       8-8-C         8-8-A-2       8-8-B-3       8-8-C         8-8-A-1       8-8-B-3       8-8-C																
VING       8-8-A-1       8-8-B-2       8-8-C         8-8-A-2       8-8-B-3       8-8-C         8-8-A-1       8-8-B-3       8-8-C					PAN	DRY										
8-8-A-1 8-8-B-2 8-8-C 8-8-A-2 8-8-B-3 8-8-C 8-8-A-2 8-8-B-3 8-8-C 8-8-B-1 8-8-B-3 8-8-C	VII	NI <i>C</i>		0.0	A 4	0.0.5										
8-8-A-2 8-8-B-3 8-8-C				8-8	-A-1	8-8-E	3-2	8-8-C-1								
8_8_R_1 8_8_R_4 8_8_C				8-8	-A-2	8-8-E	3-3	8-8-C-2								
				8-8	-B-1	8-8-E	3-4	8-8-C-3								





					FI	IRE	AL	ARN	MM	IATI	RIX															
	SYSTEM INPUTS	SYSTEM INPUTS CONTROL UNIT ANNUNCIATOR NOTIFICATION									SU STA CONTROL ID															
		ALARM AUDIBLE/SIGNAL FACP	ERVISORY AUDIBLE/SIGNAL AT FACP	OUBLE AUDIBLE/SIGNAL AT FACP	ATE AT REMOTE ANNUNCIATOR PANEL	E ALARM INDICATOR BY POINT	HANGE OF STATUS AT FACP	SUPERVISORY INDICATOR BY POINT	ROUBLE INDICATOR BY POINT	SENERAL BUILDING ALARM		SENERAL BUILDING STROBES	OCAL DETECTOR AUDIBLE	OCAL ROOM ADA VISUAL CIRCUIT (IF APPLICABLE)	PEMOTE ALARM INDICATOR				ER HAT INDICATOR LIGHT	N HVAC UNITS	N ASSOCIATED FIRE/SMOKE DAMPERS					FIRE ALARM SIGNAL
INDEX	DESCRIPTION	ACTUATE /	ACTUATE S	ACTUATE 1	ANNUNCIA	ACTUATE /	DISPLAY C	ACTUATE S	ACTUATE 1	ACTUATE (		ACTUATE (	ACTUATE I	ACTUATE I			FI FVATOR		FIREFIGHT	SHUTDOW	SHUTDOW					TRANSMIL
1	ADDRESSABLE SMOKE DETECTOR	•			•	•	•			•		•				•				•					•	•
2	STAIRWELL SMOKE DETECTOR	•			•	•	•			•		•				•				•					•	•
3	ADDRESSABLE HEAT DETECTOR	•			•	•	•			•		•				•				•					•	•
4	ADDRESSABLE CO DETECTOR			•	•	•	•		٠																	
5	MANUAL PULL STATION	•			•	•	•			•		•				•				•					•	•
6	DUCT DETECTOR	•			•	•	•			•		•						_		•						•
7	ELEVATOR MACHINE ROOM - SMOKE DETECTORS	•		•	•	•	•			•		•					•			•					•	•
8	ELEVATOR MACHINE ROOM - HEAT DETECTORS	•		•						•		•					•			•					•	•
9	ELEVATOR SHAFT - SMOKE DETECTOR																									
10	ELEVATOR SHAFT - HEAT DETECTOR	•		•						•		•					•			•					•	•
11	SPRINKLER FLOW SWITCH	•		•						•		•				$\top$	•	1		•	1			+		•
12	SPRINKLER TAMPER SWITCH	•		•											$\uparrow$	1	1	1		1	1					
13	FIRE PUMP RUNNING	•		•														1								
14	FIRE PUMP POWER FAILURE/PHASE REVERSAL	•		•																						_
15	FIRE PUMP FAIL TO START	•		•																						
16	FIRE ALARM AC POWER FAILURE	•		•											$\perp$					_						
17	FIRE ALARM SYSTEM LOW BATTERY	•		•											$\square$	+	_								_	
18	OPEN CIRCUIT	•		•											+	+	_	_							_	
19		•	_	•	_		_	_							+	+	+	_		<u> </u>	-				+	_
20			•	•	•		•	•						+	+		+	+	+							_
22				$\dashv$											+	+	_	+		-	-	$\square$		_	+	_
22					•		-								+	+	+	+		-		$\vdash$		+	+	
23	GENERATOR LOW FUEL			-	•		•								+	+	-	+		-	-	$\square$			-	_
25	FIRE PUMP LOW FUFI			•	•		•								+	+	+	+		-					+	_
-		ı		- 1					1						1	1		1		1	1	1	· I			_

			N1 : N	11 - 17 S		NO N/ /7	 	I	N2 : M1 - 20	)		
N1:M1-14 - N1:M1-15 -			NODE		FS	N2 : M1 - 17			NODE 2		FS     FS	
	FUTURE		RE	╵┠	L FF I T ET							
		T		╘═┼├	i <u> </u>	UPPER ELEVATOR MACHINE ROOM			,	-++		
	<u>  N1 : M1 - í</u>   	12		+ ·	<u> N1 : M1 - 1</u>   	3 <u>GOVERNOR ROOM</u> TOP OF HOISTWAY (H) (H) (H) (H) (H) (H) (H) (H) (H) (H)	(S)   N2 : M1 - 15			 	⊢(S)   [ <u>N2</u> : <u>M1</u> _ 	<u>16 GO</u> TOF
					   					•		
		   		•	<sub>SI</sub>   	PPLY/RETURN AHU-2 AHU-3 AHU-4 AHU-5 AHU-6 AHU-7 AHU-8 AHU-9						
	-+	 +	T — —I	+	 	FFFF	 		- 		   - 	
		1			   	STAIR A STAIR B STAIR C FSD (TYP) FD (TYP) FS TS FS TS FS TS						
		   			   	GENERAL CONF OFFICES LOUNGE ROOMS						
		   			   	OPEN CORRIDORS BREAK ROOM OFFICES ROOMS		©				
		S   N1 : M1 - 11		•	 	TRANSPONDER EQUIP 927		N2 : M1 - 14		-•		
	-+	 +	    	+-	 	 	   		   - 		   - 	
		1			   	STAIR A STAIR B STAIR C						
					   	STAIR A STAIR B STAIR C FSD (TYP) FD (TYP)				•		
					   	BREAK GENERAL ROOM BATHROOMS OFFICES				-•		
					   	S S S S S CORRIDORS MOTHERS CONF OPEN OFFICE ROOM ROOMS AREA		(S)		_ <b>•</b>		
		N1 : M1 - 10		•	   			N2 : M1 - 13		-		
	- <del> </del>	¦   ⟨§∕	_        -	└───┿│ └───┿│	 		 	 (S)				
		N1 : M1 - 9			   			N2 : M1 - 12				
	-+     	× − − − − − − − − − − − − − − − − − − −	+ — —     	+	+ — — – -   			 ∑ N2 : M1 - 11			} - 	
	 - <u> </u>	i +	     	+	     					!		
		<u>S</u>   N1 : M1 - 7		•	 			S N2 : M1 - 10		-•		
	-+ 	 +	    	 	 		 	 (S)	   -   -	_   •	   - 	
		N1 : M1 - 6			   			N2 : M1 - 9			/       	
	- <b>+</b>	L	+     		+ — — — -   		   	S N2 : M1 - 8			/	
	¦ -+	i   +		+	'     		 					
		N1 : M1 - 4		•	 			S N2 : M1 - 7		-		
	-+	           	i i +  +		 		   		   - 		   - 	
		N1 : M1 - 3			   			N2 : M1 - 6				
	- <b>L</b>	<u> </u>		+-	4   	COMMUNICATIONS FIRE ALARM FIRE ALARM FIRE ALARM FIRE ALARM	!      				└ 	
		 			-   	PBX FACP IM IR						
		FAA RCP			   		† N2∶M1-3 † N2∶M1-2 † N2∶M1-1				     	
					   			$\gamma \gamma \gamma$		$\downarrow$		$\sim$
		S N1 : M1 - 1			<del> </del>   		     	S N2 : M1 - 4				
	 -+	i 	,       +  	 	    、			tt		<b>大</b> -		
		ELEVATOR LOBBY	 RIDOR	LOSET	JISTWAY SISTWAY ELEV'S 19-21		— — — — JISTWAY V's 22 & 2	ELEVATOR LOBBY				-
	ΙĬ	1	ıği		ΙĬ		I XH		ы қалғ	-	I XHI	