

To: All Vendors Bidding on The College of New Jersey Roscoe West Hall Lower Level Renovation

From: Lauren Manning Finance & Business Services

Date: September 13, 2024

#### ADDENDUM NO. 1

ISSUE DATE: September 26, 2024

REFERENCE: The College of New Jersey Roscoe West Hall Lower Level Renovation Bid No. AB250004

Date of Original Bidding Documents: September 9, 2024

INTENT: This Addendum forms a part of the Contract Documents and modifies the original Bidding Documents and Prior Addenda if any, as identified above.

#### **VENDOR QUESTIONS:**

**Question 1:** Please provide contact information for the existing Fire Alarm, BMS, Security/Access Control Vendors.

Response: Fire Alarm and BMS is managed directly through Honeywell and our contact is Ed Mogck, ed.mogck@honeywell.com. Security is managed by TCNJ's Access Control and Telecommunications departments.

**Question 2:** Please advise if the Signage Scope is part of this contract. If it is, please provide specs and signage scope details.

Response: Signage is not included in this contract. TCNJ will provide signage.



**Question 3:** Please provide specifications for the below items shown on the plans:

- a. Steel Railings
- b. FRP Panels
- c. Tack Boards & Marker Boards
- d. Toilet Partitions
- e. Toilet Accessories
- f. Fire Protection Specialties (also locations)
- g. Window Treatments
- h. Walk-Off Mats

Response: The following specification sections are provided in this Addendum 1

- a. Steel Railings 055213-RIB-Pipe and Tube Railings Addendum 1
- b. FRP Panels 068316-RIB-Fiberglass Reinforced Paneling Addendum 1
- c. Tack Boards & Marker Boards 101100-RIB-Visual Display Units Addendum 1
- d. Toilet Partitions 102113.19-RIB-Plastic Toilet Compartments Addendum 1
- e. Toilet Accessories 102800-RIB-Toilet, Bath, and Laundry Accessories Addendum 1
- f. Fire Protection Specialties (also locations)
   104400-RIB-Fire Protection Specialties-09-23-2024\_Addendum 1
   Locations are shown on A010. Legend on floor plan has been updated to clarify FE type.
- g. Window Treatments 122400-RIB-Window Shades Addendum 1
- h. Walk-Off Mats 124813-RIB-Entrance Floor Mats and Frames Addendum 1

**Question 4:** Drawing A700 Partition Types is listed on the Drawing List but was missing from the Bid Set. Please provide.

## Response: A700 Partition Types have been provided. Detail 2/A200 has been updated in this Addendum 1.

**Question 5:** There are no elevation views and the overall building elevations do not give sizes to the storefront. Please clarify.



## Response: A200 has been updated in this Addendum 1 to clarify storefront sizes. Reference sections have also been updated in this Addendum 1 to clarify storefront sizes.

**Question 6:** There are no specs for the sliding door, or the type of glass used in it. Safe to assume 1/2" interior and 1" exterior? Please advise.

## Response: There is one new interior sliding door 101C. Spec Section has been provided. 084229-RIB-Automatic Entrances Addendum 1

**Question 7:** Is Detail C5 on A600 a storefront? Or is it existing and only new glass and a door are needed? Please advise.

Response: New interior framed system. A100 has been updated in this Addendum 1 to clarify storefront dimension. Similar to Frame Type 3 – Wilson Partitions 500 series with 2" snap on trim.

**Question 8:** Please provide contact info for the existing A/V Vendor.

## Response: The AV and IT portion of this project will be bid separately through state contracts and cooperative agreements.

**Question 9:** Lithonia Lighting is shown at Appendix B, is the Owner purchasing any light fixtures and/or lighting controls?

#### Response: As per the Luminaire Schedule on E601 for light fixtures, TCNJ has purchased only the 2x2 and 2x4 light fixtures. The contractor is responsible for coordinating the delivery and installation. All other light fixtures, controls, wiring, etc. must be provided and installed by the contractor.

**Question 10:** Regarding Classroom G25: BOM lists three (3) ClearOne ceiling microphone arrays; drawing TA6.07 shows two (2). Please confirm quantity and provide updated BOM and drawings reflecting correction.

#### Response: BOM is incorrect and has been updated to QTY (2) in this Addendum 1.



**Question 11:** Regarding Classroom G26: BOM lists one (1) Crestron NVX decoder. No Crestron NVX devices are shown on drawing TA6.12. Please advise.

#### Response: BOM is incorrect and has been updated in this Addendum 1.

**Question 12:** Regarding Seminar: a. Bill of materials (BOM) lists two (2) displays/mounts & NVX decoders although description indicates one (1) display. Drawing TA6.05 shows one (1) display. A second display is listed as an alternate. Please confirm base system display quantity and provide updated BOM and drawings reflecting correction. b. BOM lists a tabletop touch panel, drawing TA6.05 shows a wall mounted unit. Please confirm touch panel type and location and provide updated BOM and drawings reflecting.

# Response: BOM is incorrect and has been updated to reflect correct quantities in this Addendum 1. Touch panel is wall mounted, BOM has been updated in this Addendum 1

**Question 13:** Regarding Mentoring Center: BOM lists one (1) 65" flat panel, drawing TA6.13 shows one (1) 75" flat panel display. Please confirm flat panel display size.

# Response: BOM is incorrect and has been updated to reflect 75" display size in this Addendum 1.

**Question 14:** Regarding Large Group Study Alternate #1: Referencing BOM & drawing TA6.10: please confirm location and connectivity of owner furnished Room PC and provide updated drawing reflecting correction.

# Response: OFE Room PC was included in error in the BOM and has been removed in this Addendum 1.

**Question 15:** Specification 24 41 00, Appendix A, page A22 lists CETL Conference Room: this is not listed on page A1 summary sheet nor on drawings. Is this system part of this renovation?

#### Response: BOM is incorrect and has been updated in this Addendum 1.

**Question 16:** Please provide a Detail for Stair A so that a Riser Count can be quantified.

#### Response: Floor plan A110 has been updated in this Addendum 1 to show quantities.



Question 17: Please provide missing Drawing A700 (Partition Types) that is indicated on Drawing G000.

Response: A700 Partition Types has been provided. Detail 2/A200 has been updated in this Addendum 1.

Question 18: Please provide missing Project Manual Specification 015000a (Sample Project Sign).

Response: Project Manual Specification 015000a has been updated and attached to this Addendum 1.

**Question 19:** Please provide specifications (inclusive of all acceptable manufacturers, models, materials, sizes, and colors) for the following items;

- a. Metal Railings
- b. Double-Sided Glass Marker Board (GL-2)
- c. Mirrors at Gang Toilet Room Vanities
- d. FRP Wall Panels in Janitors Closet
- e. Visual Displays
- f. Signage
- g. Toilet Partitions
- h. Toilet Accessories
- i. Fire Extinguishers and Cabinets
- j. Manual Roller Shades

Response: The following specification sections are provided in this Addendum 1

- a. Metal Railings 055213-RIB-Pipe and Tube Railings Addendum 1
- b. Double-Sided Glass Marker Board (GL-2) 088000-RIB-Glazing\_Addendum 1 has been updated to include GL-2 laminated glass.
- c. Mirrors at Gang Toilet Room Vanities 102800-RIB-Toilet, Bath, and Laundry Accessories Addendum 1
- d. FRP Wall Panels in Janitors Closet 068316-RIB-Fiberglass Reinforced Paneling Addendum 1
- e. Visual Displays 101100-RIB-Visual Display Units Addendum 1
- f. Signage Not Applicable - Provided by TCNJ
- g. Toilet Partitions 102113.19-RIB-Plastic Toilet Compartments Addendum 1
- h. Toilet Accessories



102800-RIB-Toilet, Bath, and Laundry Accessories Addendum 1

- i. Fire Extinguishers and Cabinets
  - 104400-RIB-Fire Protection Specialties-09-23-2024\_Addendum 1
- j. Manual Roller Shades 122400-RIB-Window Shades Addendum 1

Question 20: Please confirm the owner will be responsible to provide and install the following items;

- a. Network Communication System
- b. Audiovisual Systems
- c. Security Systems inclusive of card readers
- d. If the GC is responsible for these items, please better clarify exact scope of work required.

Response: The contractor is responsible for the installation of infrastructure such as conduit, boxes, mud rings, etc. as noted on the AV, IT, security and electrical drawings. A Telecommunications Responsibility Matrix has been attached for further clarification.

**Question 21:** Specifications 15000 (Temporary Facilities and Controls), Section 1.5 (Field Office)- Please confirm the GC can utilize available space within the area of work for a field office in lieu of providing a trailer.

Response: Space within the renovation area can be used to setup a field office. However, the contractor must still include costs associated with building a temporary office within the renovation space to store and secure project documents and provide a safe location to host the bi-weekly project meetings.

**Question 22:** Specifications 15000 (Temporary Facilities and Controls), Section 1.9 (Site Enclosure Fence)-Specifications call for an 8'-0" high temporary fence; however, Drawing CE502 construction details indicate a 6'-0" high fence. Please clarify Site Enclosure Fence height.

#### Response: The temporary fencing must be at least 6-feet in height.

**Question 23:** Specifications 15000 (Temporary Facilities and Controls), Section 1.9 (Site Enclosure Fence)-Specifications call for fence screening with custom TCNJ logo/lettering. How often does the TCNJ logo/lettering need to repeat (i.e. every panel, every 25', every 50')? Please advise.

#### Response: The TCNJ logo must be provided at a spacing of no more than 12-feet.



**Question 24:** Please confirm moveable fence panels can be used in lieu of a post driven site enclosure fence. Please note, unlike a post driven construction fence the moveable panels system affords the owner the opportunity to have GC expand and/or shrink the construction boundaries as needed if access requirements to surround area arise.

Response: Moveable fence panels can be used in lieu of post driven fencing. The contractor must include costs associated with maintaining the fence to ensure the enclosure is still within the designated construction zone and not encroaching on the emergency roads or pedestrian walkways throughout the duration of the project.

**Question 25:** Drawing A300, Section A3- Please confirm this section is for existing window conditions to remain as-is and that the existing sills and window shades are also to remain as-is for the base bid and not new like indicated.

Response: Drawings have been updated to clarify new window roller shades and sills will be installed throughout in this Addendum 1.

**Question 26:** Drawing A470, Finish Schedule- Schedule calls out for Tack Board (TB-3) but locations are not indicated on the A600, A601, A900, & A901 Drawings. Please provide.

Response: Tackboard TB-3 on A740 is not used. A901 has been updated in this Addendum 1 to clarify extent of TB-1.

**Question 27:** Vestibule 101. We can get an idea of 101D and 101E from the building elevation. 101A, 101B, and 101C however do not have any type of elevation view. Please provide elevation details for 101A, 101B & 101C.

#### Response: New interior elevation provided on A600.

**Question 28:** During the walkthrough there was mention of lead and/or asbestos abatement. Plans do not indicate locations in which abatement is to occur. Please provide an Asbestos Report so we assess the areas that are affected.

Response: This Addendum 1 includes the Environmental Survey and Asbestos Abatement Specifications. The contractor must hire qualified subcontractor(s) for the removal of hazardous materials, as noted, and coordinate air monitoring and documentation activities with Atlas Technical Consultants LLC, hired by TCNJ for this service.



**Question 29:** Stairs seem to continue to into a 2nd floor in Stair A GS01. How high from the floor should we consider painting of the stairwell on the 1st floor within our scope and at what height is it no longer within our scope? If we are to paint the entire stair well, please provide plans for this stairwell.

#### Response: Entire Stair Tower A to be painted, including second floor walls and ceiling. Layout is similar to the first floor.

**Question 30:** Please identify where TB-3 is to be installed.

#### Response: TB-3 is not in this phase of the project.

**Question 31:** Forbo Tackable Board does not come with trim nor does Forbo sell these individually. Is J trim required for this material?

## Response: Design intent is for no trim. Trim is not required if installer carefully scribes perimeter edges.

**Question 32:** Exterior handrails called to be painted. Are these to be shop finished or are the required to painted over a shop primer?

#### Response: Exterior handrails can be shop finished in lieu of painted over a shop primer.

Question 33: Please confirm wall height in the lower-level storage room G14.

#### Response: Wall heights go to the underside of deck.

**Question 34:** The notes on the door schedule page calls for Flat Cut maple doors finished to match existing. The spec book says MDO faces for painted finish. Please advise which is required.

## Response: Wood doors (Type FS) are to have a clear maple finish, not painted. The door schedule will be revised for the awarded contractor.

#### **Question 35:** Regarding CETL Conference Room:

A. There is equipment list for this room but not shown in layout so please advise.

B. It is not added ether in summary sheet or the alternative sheet, please advise



#### Response: BOM is incorrect and has been updated in this Addendum 1.

Question 37: Who is the base building security vendor/manufacturer? New devices must match existing?

#### Response: Security system wiring, device, and equipment installation will be performed under a separate contract through TCNJ's Security and Telecommunications Department.

**Question 38:** Who is the base building A/V vendor/manufacturer? New devices must match existing?

#### Response: Audio visual system wiring, device, and equipment installation will be performed under a separate contract through TCNJ's User Support Services Department.

Question 39: Confirm MC cable can be used for branch circuiting in concealed walls and ceilings.

#### Response: Yes, MC cable can be used for branch circuiting in concealed walls and ceilings.

**Question 40:** Confirm all panels/breakers other than LA2 are EXISTING and can be reused for new circuiting shown. If not, provide the manufacturer and catalog #'s of any existing switchgear that require new/additional breakers. Needed for gear quote.

#### Response: This is no change to the switchgear. All existing panels can be reused. Refer to panel schedules for breaker quantity and sizes. As noted LA2 is new.

**Question 41:** Please confirm any HVAC control wiring or BMS work is by others (not the Electrical contractor).

# Response: The electrical contractor will be required to either self-perform the installation of control wiring or subcontract the work through our BMS vendor (Honeywell).

**Question 42:** Who is the base building fire alarm vendor/servicing company? Do we need to use that vendor? What is the model number of the existing FACP?

Response: Honeywell. Yes, need to use Honeywell. FACP is also by Honeywell and is existing. The model number needs to be verified in field. Cabinet was looked at time of survey.



#### **CLARIFICATIONS:**

Any mention of 'Addendum B' in the revised project plans refers specifically to this Addendum 1 issued by The College of New Jersey.

#### **ATTACHMENTS:**

#### **Responsibility Matrix**

#### **Environmental Survey and Specification**

Asbestos Abatement Specification by EFI Global Environmental Survey Report by EFI Global

#### **New Specification Sections**

015000a Sample Project Sign 055213-RIB-Pipe and Tube Railings Addendum 1 068316-RIB-Fiberglass Reinforced Paneling Addendum 1 084229-RIB-Automatic Entrances Addendum 1 088000-RIB-Glazing Addendum 1 099113-RIB-Exterior Painting Addendum 1 101100-RIB-Visual Display Units Addendum 1 102113.19-RIB-Plastic Toilet Compartments Addendum 1 102800-RIB-Toilet, Bath, and Laundry Accessories Addendum 1 104400-RIB-Fire Protection Specialties-09-23-2024\_Addendum 1 122400-RIB-Window Shades Addendum 1 124813-RIB-Entrance Floor Mats and Frames Addendum 1

#### **Updated Specification Sections**

088000-RIB-Glazing\_Addendum 1

#### List of revised Addendum 1 drawings

Architectural

G000	Cover Sheet
AD10	0 Lower Level Demolition Plan
AD11	0 First Floor Demolition Plan
A100	Lower Level Floor Plan
A110	First Floor Plan
A200	Overall Building Elevations
A300	Wall Sections and Exterior Assembly Types
A600	Interior Elevations
A700	Partition Types
A710	Door and Frame Types, Schedule, Detail, Glazing Types



A901 First Floor Finish Plan

#### Electrical

- E100 Lower Level Power & Systems Plan
- ED101 First Floor Demolition Plan
- E101 First Floor Power & Systems Plan
- E501 Electrical Details

#### Audiovisual

Audiovisual Legends, Abbreviations and General Notes
Audiovisual – Symbol Legend
Audiovisual – Details
Audiovisual – Enlarged Plans - First Floor
Audiovisual – Enlarged Plans – Student
Audiovisual - Enlarged Plans – Elevator Lobby
Audiovisual - Enlarged Plans – Office
Audiovisual – Enlarged Plans – Seminar
Audiovisual - Enlarged Plans – Classroom
Audiovisual - Enlarged Plans – Large
Audiovisual - Enlarged Plans – CETL Learning
Audiovisual – Enlarged Plans – Small Group
Audiovisual - Enlarged Plans – Large Group
Audiovisual - Enlarged Plans – CETL Seminar
Audiovisual – Enlarged Plans – Classroom G26
Audiovisual - Enlarged Plans – Mentoring
Audiovisual - Enlarged Plans – Classroom

#### Security

- SC.01 Security Legends, Abbreviations, and ...
- SC.31 Security Details
- SC2.01 Security Lower Level Plan
- SC2.02 Security Level One Plan

#### Telecom

- T0.01 Telecom Legends, Abbreviations, and General..
- T0.02 Telecom Details
- T2.00 Telecom Lower Level Plan
- T2.01 Telecom Level One Plan
- T6.01 Telecom Enlarged Plans

#### END OF ADDENDUM NO. 1

			TI	ELECOMMUNICATI	ONS RESPONSIBIL	ITY MATRIX						
			FUR	NISH					INST	ALL		
DESCRIPTION	TELECOM CONTRACTOR	SECURITY CONTRACTOR	AV CONTRACTOR	ELECTRICAL CONTRACTOR	GENERAL CONTRACTOR	OWNER	TELECOM CONTRACTOR	SECURITY CONTRACTOR	AV CONTRACTOR	ELECTRICAL CONTRACTOR	GENERAL CONTRACTOR	OWNER
GENERAL COMMUNICATIONS												
(AV/TELECOMMUNICATIONS/SECURITY)												
GROUNDING AND BONDING FOR TELECOMMUNICATIONS												
BACKBONE (e.g BUSBARS)				*						*		
ELECTRICAL PANELS)				*						*		
EQUIPMENT IN TELECOMMUNICATIONS ROOMS (e.g EQUIPMENT RACKS)	*						*					
POWER WIRING, 120V, 208V, 480V, 600V				*						*		
HANGERS (J-HOOKS, SADDLE BAGS)	*						*					
CONDUITS AND BACKBOXES				*						*		
CONDUIT SLEEVES, AND SLEEVE SEALS				*						*		
NON-CONDUIT RACEWAYS				*						٠		
FIRESTOP [1]	*	*	•	*	*		*	*	*	*	*	
DEVICE ALLTHREAD DROPS [2]	*	•	•	٠			*	*		٠		
STRUCTURED CABLING												
NETWORK RACK & CABLE MANAGEMENT						*						*
CABLE TRAY	*						*					
PATCH CABLES												
FOR IT EQUIPMENT						*						*
FOR AV EQUIPMENT			•						*			
FOR CONTROL SYSTEMS				*						*		
NETWORK EQUIPMENT						*						*
WIRELESS DEVICES (WAPs)						*						*
COMMUNICATIONS CABLING	*						*					
TERMINATION BLOCK	*						*					
AUDIO-VIDEO COMMUNICATIONS												
AUDIO-VIDEO CABLING			•						*			
AUDIO-VIDEO RACKS			•						*			
AUDIO-VIDEO PATCH PANELS			٠						•			
AUDIO-VIDEO FLAT PANEL DISPLAYS			•						*			
FLAT PANEL DISPLAY MEDIA BACKBOXES				•						•		
BLOCKING/FRAMING FOR MEDIA BACKBOXES					*						*	
POWER RECEPTACLES (LINE VOLTAGE)				*						*		
AUDIO-VIDEO SPEAKERS, AMPLIFIERS, SIGNAL PROCESSORS			•						*			
AUDIO-VIDEO CONTROL SYSTEMS			*						*			
ELECTRONIC SAFETY AND SECURITY												
DATA CABLING	*						*					
DOOR CONTROL CABLING	*						*					
INTRUSION DETECTION, SURVEILLANCE, AND ACCESS CONTROL DEVICES						*						*
POWER RECEPTACLES/CONNECTIONS (LINE VOLTAGE)				*						•		
GENERAL NOTES												
A. FILLED GRAY CELLS WITH AN ASTERISK (*) INDICATE THAT WORK WILL BE COM	PLETED BY ENTITY STATE	DAT TOP OF COLUMN.										
NUMBERED NUTES [#]				COURCE OF THAT FOR	C CODE OF WORK							
THRESTOPPING SHALL BE PROVIDED AND INSTALLED BY EACH INDIVIDUAL CON	I KACI UK AS REQUÍRED TI	U MAINTAIN FIRE-RATING	S OF WALLS DURING THE	COURSE OF THAT ENTITY	S SLOPE OF WORK.							
2 DEVICE ALLI HREAD DROPS SHALL BE PROVIDED AND INSTALLED BY EACH INDIV	/IDUAL CON TRACTOR AS	REQUIRED DURING THE C	OURSE OF THAT ENTITY'S	SCOPE OF WORK.								



### **ASBESTOS ABATEMENT SPECIFICATION**

#### **Project Location:**

The College of New Jersey – Roscoe West Hall Lower Level 2000 Pennington Road Ewing, New Jersey 08 18

Prepared For

The College of New Jersey Department of Design and Construction 2000 Pennington Road Ewing, NJ 08 18 Attention: William Rudeau

Prepared by

EFI Global, Inc. 11 Commerce Way, Suite A Totowa, NJ 07512

EFI File No. 011.120

Date August 20 2024

Paul W. Schaefer USEPA/AHERA Accredited Asbestos Project Designer



#### SECTION I. ASBESTOS ABATEMENT

#### PART 1. GENERAL

#### 1.1 GENERAL REQUIREMENTS QUALIFICATIONS

A. All Asbestos Abatement work referenced herein shall be performed by a New Jersey Department of Labor (NJDOH) licensed asbestos contractor (Abatement Contractor). The Abatement Contractor shall submit their license number and proof of licensure prior to the start of any asbestos related work.

#### 1.2 DESCRIPTION OF OR

- A. The Abatement Contractor shall furnish all labor, materials, services, training, insurance, and equipment as needed to complete removal of asbestos-containing and asbestos-contaminated materials located as indicated. The Abatement Contractor shall follow all Federal, State and local ordinances, regulations and rules pertaining to asbestos, including its abatement, storage, transportation and disposal.
- B. It shall be the Abatement Contractor's responsibility to verify all abatement quantities in preparation of their bid, including the location and conditions of all asbestos-containing and asbestos-contaminated materials to be abated under this contract. No additional compensation and/or contract time shall be granted to the Abatement Contractor for failure to perform this requirement. Full access to the site shall be granted during the bidding process for this purpose.
- C. The Abatement Contractor shall perform all specified asbestos removals in accordance with all applicable local, state and federal regulations. The Abatement Contractor shall refer to the Asbestos Abatement Scope of Work at the end of this document for a summary and locations of all materials requiring removal.

#### 1.3 SUBMITTALS

- A. In addition to items required by other sections of this specification, the following submittals are required for review and approval by the Owner's Representative prior to the start date of the project:
  - 1. Copy of Asbestos Abatement Contractor's License
  - 2. Copies of required certifications, notifications and all applicable licenses
  - 3. Copy of Training Records and Current Asbestos Licenses for Employees assigned to the project.



- B. In addition to the items required by other sections of this specification, the following submittals are required for final payment:
  - 1. Copy of Waste Shipment Records and Manifests
  - 2. Copy of Worker Exposure Air Sample Results
  - 3. Copy of Abatement Contractor Site Supervisor's Logbook

#### 1.4 CODES AND STANDARDS

- A. All work shall conform to the standards set by applicable Federal, State and local laws, regulations, ordinances, and guidelines in such form in which they exist at the time of the work on the contract, and as may be required by subsequent regulations. Applicable regulations include United States Environmental Protection Agency (USEPA) 40 CFR Part 7 3; Occupational Safety and Health Administration (OSHA) 29 CFR Part 192 .1101; NJAC 5:23-8 Asbestos Hazard Abatement Subcode; New Jersey Department of Health (NJDOH) 8: 0; NJDOL 12:120 and New Jersey Department of Environmental Protection (NJDEP) 7:2 . In addition to any detailed requirements of this asbestos abatement specification, the Abatement Contractor shall at his/her own cost and expense comply with all laws, ordinances, rules and regulations of Federal, State and Local Authorities regarding handling and storing of asbestos and asbestos waste material.
- B. All regulations and other governing guidelines in their most current version are applicable throughout this project. Where there is a conflict between this asbestos abatement specification and the cited State, Federal, or local regulations, the more restrictive or stringent requirements shall prevail. It is the Abatement Contractor's responsibility to know, understand, and abide by all such regulations and common practices governing asbestos abatement related work.

#### 1.5 FEES PERMITS LICENSES

- A. The Abatement Contractor shall be responsible for all associated licensing requirements where applicable and notification requirements and all other fees related to the Abatement Contractors ability to perform the work as detailed in this specification.
- B. The Abatement Contractor shall secure all necessary permits to perform the work as detailed in this specification including hauling, removal, and disposal or any other permits required to perform the specified work.
- C. The Abatement Contractor shall submit Asbestos Abatement Notifications and associated fees to the USEPA, NJDOL, NJDOH and the New Jersey Department of Community Affairs (NJDCA) as required prior to commencing work.



#### 1. CLEANING

- A. Maintain the work site in a neat and orderly manner at all times, so as not to interrupt or infringe upon the work of other trades or Owner. Perform all final cleaning of abatement work areas as required by this specification and all applicable Federal, State and local Regulations to the approval of the Owner's Representative. Upon completion of work in any given area, the Abatement Contractor shall remove all material and equipment associated with the work, not necessary to complete other phases of the work in that area.
- B. Comply with all requirements for final clearance and release of a work area as described in this specification and required by Federal, State and local Regulations prior to dismantling of the work area.

#### 1. COORDINATION

A. Extend full cooperation to the Owner in all matters involving the use of Owner's facilities. At no time shall the Abatement Contractor cause or allow to be caused conditions which may cause risk or hazard to the general public, or conditions that might impair safe use of the facility.

#### 1. SITE SECURITY

- A. The Abatement Contractor is responsible for performing all work under this contract without contaminating the building environment with asbestos fibers. This includes interiors of ductwork, outside containment locations, machinery and equipment and any other release into unregulated spaces. The Abatement contractor is responsible for abatement and clean up of any such contamination if found to be present and caused by his actions or lack thereof.
- B. The Abatement Contractor will be responsible for the security of each abatement work area, allowing only authorized personnel into the area. Signs will be posted prior to asbestos removal as required in 29 CFR 192 .1101.

#### 1. ASBESTOS SAFETY CONTROL MONITOR

- A. The Owner shall retain an Asbestos Safety Control Monitoring (ASCM) firm licensed by the NJDCA for project monitoring during all abatement related work. The ASCM firm shall provide an Asbestos Safety Technician (AST) licensed by the NJDCA to perform all required inspections and air sampling during all abatement work. The Abatement Contractor shall regard the AST's direction, as authoritative and binding as provided herein, in all matters outlined by this Specification.
- B. The AST, acting as the Owner's Representative, will perform monitoring of the Abatement Contractor's work practices and performance, inspection of the



worksite, and air sampling for the asbestos abatement project. uality control and testing criteria have been established in this asbestos abatement specification and will be strictly enforced. The AST will review matters relating to interpretation of the asbestos abatement specification and all applicable regulations and will make decisions upon consultation with the Owner.

#### PART 2. EXECUTION

#### 2.1 OR AREA PREPARATION

- A. Critical Barriers: Prior to any masking and sealing operations which will make up the asbestos abatement work area, windows, doors, openings, ducts, drains and vents shall be sealed with a minimum of two layers of six () mil polyethylene sheeting. Large openings to occupied areas, such as open doorways, hallways, passageways and other major openings shall be sealed with solid construction materials and made airtight in accordance with Federal, State and local Regulations. Voids in walls and ceilings that are due to penetrations of conduits and pipes shall be sealed. Exposed electrical panels in work areas will be shut off when possible, and masked and sealed with a minimum of two (2) layers of six ()-mil polyethylene sheeting and duct tape.
- B. Decontamination Chamber: It is the Abatement Contractor's responsibility to provide a Decontamination Chamber consisting of an equipment room, shower room and clean room for personnel involved in asbestos abatement. The Chamber shall be built out of solid construction materials, masked and sealed with two layers of six-mil polyethylene sheeting with flaps between each room. Each of the three rooms will be of a sufficient size to accommodate the Abatement Contractor's personnel and related equipment. The rooms will be framed, masked, sealed and attached to the entry/exit way of the abatement worksite. Adequate heat and light will be safely provided. The Abatement Contractor shall provide a minimum of one water heater and one shower per work area decontamination chamber. Wastewater will be filtered by 20 micron and 5-micron filters in series prior to discharge.

#### 2.2 ABATEMENT PROCEDURES

- A. General: The following paragraphs detail the work requirements for the regulated areas.
- B. Masking and Sealing
  - 1. Critical Barriers
    - a. In areas where drains or sump pumps are located, primary filters will be placed in drain and openings sealed with mil polyethylene sheeting, in addition to floor masking and sealing requirements.



- b. All movable items including furniture, personal items or stored material shall be removed and disposed of as asbestos-contaminated waste.
- C. Personal Air Sampling: Daily personal and excursion air sampling will be the responsibility of the Abatement Contractor to check personal exposure levels versus respiratory protection work practices. At least 25 of the workers in each shift, but not less than 2, shall be sampled. The Abatement Contractor is responsible for his own personal sampling as outlined in OSHA Regulation 192 .1101. The Abatement Contractor shall post personal air sampling results within 24 hours of collection.
- D. Remedial Cleaning: Remedial cleaning of horizontal surfaces, ledges, and equipment will be required prior to masking and sealing operations within the work area. Cleaning will be done using HEPA vacuums and wet methods. Determinations of additional remedial cleaning will be made on the basis of hazard potential to workers and the outside environment relating to setup and masking and sealing operations (as deemed by the AST). Respiratory protection and protective clothing will be required for all cleaning. Prior to remedial cleaning, negative air filtration units and a three-stage decontamination chamber shall be in place and running and all wall and ceiling penetrations shall be sealed with two layers of mil polyethylene sheeting.
- E. Negative Air Filtration: The Abatement Contractor shall establish negative pressure air filtration within the work area. The Abatement Contractor shall install, operate, and maintain a sufficient number of negative air filtration units to provide the necessary air changes and pressure differential required by Federal, State and local regulations. The AST shall perform daily air flow measurements utilizing a velometer, manometer or other acceptable air flow measuring instrument and shall record the measurements in the project log.
- F. Abatement of asbestos containing materials, unless specified otherwise, will be performed using negative air filtration techniques, wet methods, an attached three stage decontamination chamber, and masking and sealing of openings, ducts and vents. Removals will be as indicated and as specified herein and will be performed in a neat and workman like manner to the limits indicated or specified. Asbestos will be consistently and thoroughly wetted with a fine spray of amended water and will be carefully removed and immediately placed in approved and properly labeled six mil polyethylene disposal bags or other approved containers. Residual materials will be diligently scraped or brushed from surfaces. After brushing and scraping, all surfaces shall be wet wiped by hand and HEPA vacuumed clean until all surfaces are free of visible dust, debris and fibers.



- G. Visual Inspections: The work area shall pass a post abatement visual inspection conducted by the Site Supervisor responsible for the project and the AST. The criterion for this inspection will be the absence of visible debris in accordance with ASTM standard E13 8-90. A certificate of visual inspection will be signed by the AST and the Site Supervisor after final inspection clearance. The Abatement Contractor will be responsible for the costs of visual inspection and testing required for any work which fails post abatement air quality criteria.
- H. Encapsulation: A bridging encapsulant/lockdown sealant will be applied to remaining surfaces in direct contact with removal operations, polyethylene sheeting and on any porous surfaces within the work site. The chosen encapsulant must be compatible with the replacement materials and conform to the proper edition of Federal, State and local applicable fire and electrical standards.
- I. Work Completion: Final air clearance testing shall be performed by the AST. Air samples shall be analyzed by Transmission Electron Microscopy (TEM) utilizing the USEPA AHERA Method (40 CFR Part 7 3 Appendix A Subpart E).

#### 2.3 DISPOSAL

- A. Packaging: Prior to post-abatement inspection, asbestos-containing waste shall be packaged in sealed double containers and removed from the work area to a specified transportation vehicle or an enclosed/lockable container with required signage. At the end of each workday the Abatement Contractor shall remove the debris accumulated during that day's work activities. The Abatement Contractor shall provide a daily tally of all waste containers removed from the work area.
- B. Temporary Storage of Waste: An area for temporary storage of asbestos waste must be approved by the Owner. Asbestos waste may only be stored in a restricted area and must be in an enclosed/lockable container which is labeled and secured whenever not in use. Asbestos waste material shall be loaded into a waste transportation vehicle/dumpster and hauled away as soon as there is a sufficient quantity available for direct transportation to the approved disposal site.
- C. Asbestos warning labels having permanent adhesive and waterproof print, or being permanently printed on the container, shall be affixed to the outside of all asbestos containers, and each inside bag. Labels will be conspicuous and legible and shall contain the following warning:

DANGER CONTAINS ASBESTOS FIBERS AVOID CREATING DUST CANCER AND LUNG DISEASE HA ARD



The Abatement Contractor is directed to properly label each waste bag in accordance with 40 CFR 1.150, with the following information:

#### SITE OWNER'S NAME SITE NAME

- D. DOT labeling and marking: A DOT "Class 9" shipping label and DOT mark shall be applied to or be printed on each packaging of asbestos-containing materials.
- E. EPA vehicle marking: Each vehicle transporting asbestos-containing waste shall be marked with asbestos danger signs during loading and unloading of the waste, in accordance with 40 CFR 1.150.
- F. Asbestos waste shipment records: The Abatement Contractor shall prepare waste shipment records. Completed waste shipment record(s) signed by the Abatement Contractor, all transporter(s), transferor(s), disposal and/or conversion facility(s), shall be provided to the Owner within 30 days of the time at which the asbestos-containing wastes are received at the disposal and/or conversion facility(ies), which shall be no longer than 40 days after the waste was accepted by the initial transporter. The Waste Shipment Record shall specify the number of bags, containers or cubic yard(s) of asbestos waste.
- G. Depositing: Asbestos waste shall be deposited as soon as practical at a regulated waste disposal site. Waste disposal sites for asbestos materials will be in accordance with 40 CFR 1.25. The Abatement Contractor shall provide written evidence that the site is approved for asbestos disposal by the EPA, State and local regulatory agencies.

#### 2.4 QUALITY CONTROL AND TESTING

- A. The Abatement Contractor shall be responsible for achieving acceptable visual and final air clearance testing for the abatement work area as follows:
  - 1. Clearance inspection: The AST shall inspect the work area using visual and physical methods, prior to clearing the project for post abatement air sampling procedures.

Post-abatement Clearance Air Sampling: For each abatement work area, post abatement clearance air samples will be collected when a visual inspection by the AST confirms no visible dust and debris, and all surfaces have been encapsulated and are dry. Transmission Electron Microscopy (TEM) air testing will be performed to confirm the completion of removal. Work areas will be cleared and samples analyzed utilizing the USEPA AHERA Method (40 CFR Part 7 3 Appendix A Subpart E) and must not exceed a maximum airborne concentration of less than 70



asbestos structures per square millimeter as an average of five (5) TEM air samples collected inside the work area.

END OF SECTION



### ASBESTOS ABATEMENT SCOPE OF OR

#### ASBESTOS ABATEMENT SCOPE OF OR

Location	Material	<b>Q</b> uantity
Lower-Level Elevator Lobby	Remove and dispose of 12 x 12 brown floor tile	300 SF
Lower-Level Library Open Area	Remove and dispose of window glazing compound	450 LF
Lower-Level Mechanical Room	Remove and dispose of pipe fitting insulation	95 fittings
Lower-Level Restrooms Pipe Shaft	Remove and dispose of pipe fitting insulation	20 fittings
Lower-Level Library Open Area (above suspended ceiling system)	Remove and dispose of pipe fitting insulation	25 fittings



### **Asbestos Removal Locations**

The College of New Jersey- Roscoe West Hall 2000 Pennington Road Trenton, NJ 08618

#### EFI File No.:

011.12077

Inspector(s):

P. Schaefer, A. Swieca

Drawing Date:

August 15, 2024





EFI Global Inc. 11 Commerce Way, Suite A Totowa, NJ 07512

### **Environmental Survey Report**

EFI Global File No.: 011.12077 August 2, 2024

### **Project Location:**

The College of New Jersey 2000 Pennington Road Ewing, New Jersey 08618

Roscoe West Hall

### **Prepared For:**

The College of New Jersey Office of Environmental Health and Safety Attn: Nicole Moskal



August 2, 2024

Ms. Nicole Moskal The College of New Jersey 2000 Pennington Road Ewing, NJ 08618

RE: Environmental Survey Report The College of New Jersey Roscoe West Hall 2000 Pennington Road, Ewing, NJ 08618 EFI Project No.: 011.12077

Dear Ms. Moskal,

Pursuant to authorization by The College of New Jersey (TCNJ), EFI Global, Inc. (EFI) performed an environmental survey within the Roscoe Hall building located on campus of TCNJ in Ewing, New Jersey. The survey was limited to path of construction shown on the drawing set dated 5/16/2024. The survey was conducted to determine whether suspect building materials which may be impacted by the planned construction activities contain asbestos, lead paint or PCBs.

#### SURVEY PROCEDURES

Asbestos inspectors, Robert North and Agnes Swieca, conducted the asbestos and PCB sampling on July 9, 2024. Samples of suspect ACM identified were collected and submitted them under chain of custody protocol to EMSL Analytical, Inc. (EMSL) of Piscataway, NJ, a New Jersey-certified laboratory. EMSL is also accredited by the National Voluntary Laboratory Accreditation Program (NVLAP) for Bulk Asbestos Fiber Analysis which is administered by the National Institute of Standards and Testing (NIST). The samples were analyzed by EPA's "Method for the Determination of Asbestos in Bulk Building Materials" (EPA/600/R-93/116). In addition, non-organically bound (NOB) materials were analyzed using transmission electron microscopy (TEM) with gravimetric reduction methods in accordance with New Jersey asbestos regulations. Material percentages for the samples were determined by visual area estimation. Federal and State of New Jersey asbestos regulations define ACM as any material containing greater than one percent asbestos.

EFI collected samples of exterior caulking suspected of containing polychlorinated biphenyl (PCB) during the survey and submitted them to Alpha Analytical of Wilmington, Massachusetts for analysis via EPA Method SW846-8082A.

New Jersey Department of Health (NJDOH) certified Lead Inspector/Risk Assessor, Paul Schaefer conducted the lead paint inspection on July 9, 2024. The testing was performed via X-ray Fluorescence (XRF) analysis in accordance with procedures identified in US EPA 40 CFR Part 745 and in Chapter 7 of the HUD Guidelines, June 1995, Revised 2012.

#### ASBESTOS SAMPLE RESULTS

The following suspect materials sampled by EFI were reported by EMSL as containing greater than one percent asbestos:

- 12 x 12 brown floor tile (approximately 300 square feet in lobby)
- Window glazing compound (approximately 450 linear feet in basement)

The following suspect material was reported by EMSL as containing less than one percent (trace) asbestos:

• Joint compound - south lobby wall

The following suspect materials were reported by EMSL to contain no detectable concentration of asbestos:

- Carpet adhesive lobby and library open area
- Mastic associated with 12 x 12 brown floor tile lobby
- 9 x 9 gray floor tile and associated mastic locker room and lobby
- Black cove base and associated mastic library open area and lobby
- Tile grout and mortar locker area and bathrooms
- CMU mortar rear wall
- Ceiling tiles library open area
- Drywall south lobby wall
- Ceiling plaster top and bottom layers bathrooms and locker rooms
- Large pipe wrap cloth mechanical room
- Expansion joint sealant top and bottom layers rear exterior wall

A copy of the laboratory report prepared by EMSL is provided in **Attachment A**.

#### POLYCHLORINATED BIPHENYL (PCB) SAMPLE RESULTS

Results indicated the gray concrete/brick expansion joint caulk contained 5.2% (52,000 mg/kg) PCB and the black caulk contained detectable levels of PCBs 1.98% (19,800 mg/kg).

#### LEAD PAINT SCREENING RESULTS

EFI conducted the inspection of painted surfaces in readily accessible interior rooms/room equivalents of the lower level to screen for the presence/absence of lead-based paint using a Thermo Niton XL2 X-ray Fluorescence (XRF) analyzer in accordance with HUD guidelines for lead hazard identification.

One hundred thirty-three (133) XRF readings (including instrument calibration readings) were performed throughout the lower level of Roscoe Hall. XRF readings are listed in tabular form in Attachment A. The XRF readings were performed on the following painted surfaces/component types:

- Walls
- Doors/frames
- Window frames
- Heaters
- Fire hose cabinet
- Elevator door and frame
- Columns
- Partitions
- Wall panels
- Ceilings
- Floors
- Control boxes
- Expansion tanks
- Water pumps

Results of the XRF testing indicated the brown painted elevator door and frame were confirmed to contain levels of lead which are considered *lead-based paint* per USEPA, HUD and NJDOH regulations.

Results of the XRF testing indicated the following painted surfaces/component types were confirmed to contain levels of lead which are considered <u>lead-containing paint</u> per OSHA regulations in the Roscoe Hall Basement:

- White painted concrete block walls
- Black painted door frames
- Beige painted door frames
- Red fire hose cabinet
- White ceramic wall tiles
- Tan ceramic wall tiles
- Brown painted metal lockers
- Gray ceramic wall tiles
- White painted wood wall panel
- Gray painted concrete floor
- White painted plaster ceiling
- Beige ceramic wall tiles

- Brown painted metal door frame
- Red painted metal water pumps
- Green painted metal Johnson control box

XRF readings listed in tabular form are included in Attachment C.

#### CONCLUSIONS AND RECOMMENDATIONS

#### Asbestos:

EFI recommends the identified asbestos-containing materials be removed and properly disposed of by a New Jersey-licensed asbestos abatement contractor in accordance with New Jersey Department of Labor and New Jersey Department of Community Affairs (NJDCA) asbestos regulations. Abatement project monitoring and air sampling must be conducted as per NJDCA asbestos regulations by a New Jersey licensed Asbestos Safety Control Monitoring firm employing a NJDCA licensed Asbestos Safety Technician.

EFI confirmed the presence of 95 asbestos-containing pipe elbow and fitting insulation in the mechanical room and 20 fittings in the restrooms and 25 fittings in the library open area following review of previous survey data.

Suspect materials containing less than one percent asbestos are not subject to New Jersey State asbestos regulations. However, the OSHA Asbestos Construction Standard does apply to workers who may disturb materials identified as containing trace amounts of asbestos during removal and repair activities.

#### PCB:

The Toxic Substances Control Act requires manufactured building products containing > 50 ppm PCBs be removed and disposed of in accordance with EPA regulations, whether the building is going to be demolition or restored. The New Jersey Department of Environmental Protection also regulates PCB-containing and PCB-contaminated waste. The removal and disposal of PCB bulk product wastes requires notifications to both agencies.

The results of the caulking tested indicates concentration greater than 50 ppm and it is possible that PCBs leached into the adjacent concrete or bricks. EFI recommends development of a sampling plan to evaluate PCB concentrations in porous building components adjacent to the contaminated caulks. Such plans are developed by New Jersey Licensed Site Remediation Professionals (LSRP) in coordination with the NJDEP.

#### Lead in Paint:

Results of the XRF analyzer readings indicated that two (2) of the tested surfaces were confirmed to contain lead-based paint as defined by NJDOH, USEPA and HUD. Eighteen (18) of the tested surfaces were confirmed to contain detectable levels of lead which are considered lead-containing paint per OSHA regulations.

Lead-containing paint, as defined by OSHA may generate potentially hazardous leaded dust levels during modernization, renovation, remodeling, maintenance or other disturbances of painted/coated surfaces. In general, disturbance of painted surfaces with any lead content should only be performed with proper protection and/or interim controls specified in OSHA 29 CFR 1926.62 Lead in Construction Standard. EFI recommends that activities which will disturb any painted surface containing lead be conducted in accordance with the OSHA Lead in Construction Standard and applicable federal and State of New Jersey lead regulations.

#### LIMITATIONS

EFI's survey was limited to those portions of the Project Area that were safely accessible by reasonable and ordinary means. EFI did not access enclosed spaces, such as crawl spaces, pipe chases, soffit areas, materials behind solid walls or inside mechanical or electrical equipment to identify suspect ACM. Subsequently, additional suspect ACM may be present within the structure that were not identified during this survey. Additional suspect materials, which were not identified during this inspection, must be managed as asbestos until sampling by an EPA/AHERA-certified asbestos inspector indicates otherwise.

#### CLOSING

EFI is pleased to provide environmental consulting services to The College of New Jersey. If you have any questions regarding the contents of this report or need additional information, please do not hesitate to contact either of the undersigned. Thank you for the opportunity to serve your environmental needs.

Sincerely, EFI Global, Inc.

Agnes Swieca Environmental Advisor

Danielle Schaefer, CMI District Environmental Principal

Attachments: Attachment A – Laboratory Analytical Reports and Chains of Custody Attachment B – Sample Location Diagrams Attachment C – XRF Readings

#### ATTACHMENT A

LABORATORY ANALYTICAL REPORTS AND CHAIN OF CUSTODY



Sample Description: Basement - Lobby/12x12 Brown Floor Tile

	Analyzed		Non-Asbestos					
TEST	Date	Color	Fibrous	Non-Fibrous	Α	sbestos	Comment	
PLM Grav. Reduction	7/23/2024	Brown	0.54%	99.5%	No	ne Detected		
TEM Grav. Reduction	7/24/2024	Brown	0.54%	98.06%	1.4%	Anthophyllite		
Client Sample ID:	RH-2-2						Lab Sample ID:	052403166-0004
Sample Description:	Basement - Lobby/12x12 B	rown Floor Tile						
	Analyzed		Non	-Asbestos				
TEST	Date	Color	Fibrous	Non-Fibrous	Α	sbestos	Comment	
PLM Grav. Reduction	7/23/2024	Brown	0.54%	99.5%	No	ne Detected		

TEM Grav. Reduction 7/24/2024 Positive Stop (Not Analyzed) Lab Sample ID: 052403166-0005 Client Sample ID: RH-3-1 Sample Description: Basement - Lobby/Mastic to 12x12 Brown Tile Analyzed Non-Asbestos TEST Date Color Fibrous Non-Fibrous Asbestos Comment PLM Grav. Reduction 7/23/2024 Black 0.0% 100% None Detected TEM Grav. Reduction 7/24/2024 Black 0.0% 100.0% None Detected Client Sample ID: RH-3-2 Lab Sample ID: 052403166-0006 Sample Description: Basement - Lobby/Mastic to 12x12 Brown Tile Analyzed Non-Asbestos TEST Date Color Fibrous Non-Fibrous Asbestos Comment PLM Grav. Reduction 7/23/2024 Black 0.0% 100% None Detected TEM Grav. Reduction 7/24/2024 Black 0.0% 100.0% None Detected



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			and	d 12:120			
Client Sample ID:	RH-4-1					Lab Sample ID:	052403166-0007
Sample Description:	Basement - Locker Room Ar	ea/9x9 Gray Tile	es				
	Analyzed		Non	-Asbestos			
TEST	Date	Color	Fibrous	Non-Fibrous	Asbestos	Comment	
PLM Grav. Reduction TEM Grav. Reduction	7/23/2024 7/24/2024	Gray Gray	0.0%	100% 100.0%	None Detected		
Client Sample ID:	RH-4-2					Lab Sample ID:	052403166-0008
Sample Description:	Basement - Locker Room Ar	ea/9x9 Gray Tile	es				
	Analyzed		Non	-Asbestos			
TEST	Date	Color	Fibrous	Non-Fibrous	Asbestos	Comment	
<sup>2</sup> LM Grav. Reduction	7/23/2024	Gray	0.0%	100%	None Detected		· · · · · · · · · · · · · · · · · · ·
TEM Grav. Reduction	7/24/2024	Gray	0.0%	100.0%	None Detected		
Client Sample ID:	RH-5-1					Lab Sample ID:	052403166-0009
Sample Description:	Basement - Locker Room Ar	ea/Mastic to 9x9	Gray Tiles				
	Analyzed		Non	-Asbestos			
TEST	Date	Color	Fibrous	Non-Fibrous	Asbestos	Comment	
PLM Grav. Reduction	7/23/2024	Tan	0.0%	100%	None Detected		
TEM Grav. Reduction	7/24/2024	Tan	0.0%	100.0%	None Detected		
Sample Description:	Basement - Lobby Area/Mas Analyzed	tic to 9x9 Gray 1	iles Non	-Asbestos			
TEST	Date	Color	Fibrous	Non-Fibrous	Asbestos	Comment	
PLM Grav. Reduction	7/23/2024	Tan	0.0%	100%	None Detected		
TEM Grav. Reduction	7/24/2024	Tan	0.0%	100.0%	None Detected		
Client Sample ID:	RH-6-1					Lab Sample ID:	052403166-0011
Sample Description:	Basement - Library Open Ar	ea/Black Cove B	ase				
	Analyzed		Non	-Asbestos			
TEST	Date	Color	Fibrous	Non-Fibrous	Asbestos	Comment	
PLM Grav. Reduction	7/23/2024	Black	0.0%	100%	None Detected		
IEM Grav. Reduction	//24/2024	Black	0.0%	100.0%	None Detected		
Client Sample ID: Sample Description:	RH-6-2 Basement - Lobby Area/Blac	k Cove Base				Lab Sample ID:	052403166-0012
··· /··· /···							
	Analyzed		Non	-Asbestos		<b>•</b> •	
TEST	Date	Color	Fibrous	Non-Fibrous	Asbestos	Comment	
TEM Grav. Reduction	7/24/2024	Black	0.0%	100%	None Detected		
Client Sample ID:	RH-7-1					Lab Sample ID:	052403166-0013
Sample Description:	Basement - Library Open Ar	ea/Mastic to Blac	ck Cove Base				
	Analyzed		Non	-Asbestos			
TEST	Analyzed Date	Color	Non Fibrous	-Asbestos Non-Fibrous	Asbestos	Comment	
TEST PLM Grav. Reduction	Analyzed Date 7/23/2024	<b>Color</b> Brown	Non Fibrous	-Asbestos Non-Fibrous 100%	Asbestos None Detected	Comment	



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#### Summary Test Report for Asbestos Analysis of Bulk Materials in Accordance with N.J.A.C. 8:60 and 12:120 Lab Sample ID: 052403166-0014 Client Sample ID: RH-7-2 Sample Description: Basement - Locker Area/Mastic to Black Cove Base Analyzed Non-Asbestos TEST Date Fibrous Non-Fibrous Color Asbestos Comment PLM Grav. Reduction 100% 7/23/2024 0.0% None Detected Brown 7/24/2024 100.0% TEM Grav. Reduction Brown 0.0% None Detected Client Sample ID: RH-8-1 Lab Sample ID: 052403166-0015 Sample Description: Basement - Locker Area/Tile Grout Analyzed Non-Asbestos TEST Date Color Fibrous Non-Fibrous Asbestos Comment PLM 7/23/2024 White 0.0% 100.0% None Detected 052403166-0016 Lab Sample ID: Client Sample ID: RH-8-2 Sample Description: Basement - Locker Area/Tile Grout Analyzed Non-Asbestos TEST Date Color Fibrous Non-Fibrous Asbestos Comment PLM 7/23/2024 White 0.0% 100.0% None Detected Client Sample ID: RH-9-1 Lab Sample ID: 052403166-0017 Sample Description: Basement - Locker Area/Tile Mortar Analyzed Non-Asbestos TEST Fibrous Non-Fibrous Asbestos Comment Date Color PLM 7/23/2024 Gray 0.0% 100.0% None Detected Lab Sample ID: 052403166-0018 RH-9-2 Client Sample ID: Sample Description: Basement - Locker Area/Tile Mortar Analyzed Non-Asbestos TEST Fibrous Non-Fibrous Comment Date Color Asbestos PLM 7/23/2024 White 0.0% 100.0% None Detected Lab Sample ID: 052403166-0019 Client Sample ID: RH-10-1 Sample Description: Basement - Rear Wall/CMU Mortar Analyzed Non-Asbestos TEST Date Color Fibrous Non-Fibrous Asbestos Comment PLM 7/23/2024 0.0% 100.0% None Detected Gray Lab Sample ID: 052403166-0020 RH-10-2 Client Sample ID: Sample Description: Basement - Rear Wall/CMU Mortar Analyzed Non-Asbestos TEST Fibrous Non-Fibrous Comment Date Color Asbestos PLM 7/23/2024 0.0% 100.0% None Detected Gray Lab Sample ID: 052403166-0021 Client Sample ID: RH-11-1 Sample Description: Basement - Bathrooms/Tile Grout Non-Asbestos Analyzed TEST Date Color Fibrous Non-Fibrous Asbestos Comment PLM White

0.0%

100.0%

None Detected

7/23/2024



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#### Summary Test Report for Asbestos Analysis of Bulk Materials in Accordance with N.J.A.C. 8:60 and 12:120 Lab Sample ID: 052403166-0022 Client Sample ID: RH-11-2 Sample Description: Basement - Bathrooms/Tile Grout Analyzed Non-Asbestos TEST Date Color Fibrous Non-Fibrous Asbestos Comment PLM 7/23/2024 White 0.0% 100.0% None Detected Client Sample ID: RH-12-1 Lab Sample ID: 052403166-0023 Sample Description: Basement - Bathrooms/Tile Mortar Analyzed Non-Asbestos TEST Date Color Fibrous Non-Fibrous Asbestos Comment PLM 7/23/2024 Gray 0.0% 100.0% None Detected 052403166-0024 RH-12-2 Lab Sample ID: Client Sample ID: Sample Description: Basement - Bathrooms/Tile Mortar Analyzed Non-Asbestos TEST Date Fibrous Non-Fibrous Comment Color Asbestos PLM 7/23/2024 Gray 0.0% 100.0% None Detected RH-13-1 Lab Sample ID: 052403166-0025 Client Sample ID: Sample Description: Basement - Library Ceiling/White Ceiling Tile w/ Gouges and Pinholes Analyzed Non-Asbestos TEST Date Color Fibrous Non-Fibrous Asbestos Comment PLM 7/23/2024 Gray 60.0% 40.0% None Detected Lab Sample ID: 052403166-0026 RH-13-2 Client Sample ID: Sample Description: Basement - Library Ceiling/White Ceiling Tile w/ Gouges and Pinholes Analyzed Non-Asbestos TEST Date Color Fibrous Non-Fibrous Asbestos Comment PLM 7/23/2024 49.0% 51.0% None Detected Gray 052403166-0027 RH-14-1 Lab Sample ID: Client Sample ID: Sample Description: Basement - Library Ceiling/Gray Ceiling Tile Analyzed Non-Asbestos TEST Date Color Fibrous Non-Fibrous Asbestos Comment PLM 36.0% 7/23/2024 64.0% None Detected Beige RH-14-2 Lab Sample ID: 052403166-0028 Client Sample ID: Sample Description: Basement - Library Ceiling/Gray Ceiling Tile Analyzed Non-Asbestos Non-Fibrous Comment TEST Fibrous Date Color Asbestos Beige PLM 7/23/2024 68.0% 32.0% None Detected Lab Sample ID: 052403166-0029 Client Sample ID: RH-15-1 Sample Description: Basement - Library Ceiling/Ceiling Tile w/ Faux Grid Lines Analyzed Non-Asbestos Comment TEST Date Color Fibrous Non-Fibrous Asbestos

67.0%

Beige

33.0%

None Detected

7/23/2024

PLM



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#### Summary Test Report for Asbestos Analysis of Bulk Materials in Accordance with N.J.A.C. 8:60 and 12:120 Lab Sample ID: 052403166-0030 Client Sample ID: RH-15-2 Sample Description: Basement - Library Ceiling/Ceiling Tile w/ Faux Grid Lines Analyzed Non-Asbestos TEST Date Color Fibrous Non-Fibrous Asbestos Comment PLM 7/23/2024 Beige 68.0% 32.0% None Detected Client Sample ID: RH-16-1 Lab Sample ID: 052403166-0031 Sample Description: Basement - South Lobby Room/Drywall Analyzed Non-Asbestos TEST Date Color Fibrous Non-Fibrous Asbestos Comment PLM 7/23/2024 3.0% 97.0% None Detected Grav RH-16-2 Lab Sample ID: 052403166-0032 Client Sample ID: Sample Description: Basement - South Lobby Wall/Drywall Analyzed Non-Asbestos TEST Date Fibrous Non-Fibrous Comment Color Asbestos PLM 7/23/2024 Gray 3.0% 97.0% None Detected RH-17-1 Lab Sample ID: 052403166-0033 Client Sample ID: Sample Description: Basement - South Lobby Wall/Joint Compound Analyzed Non-Asbestos TEST Date Color Fibrous Non-Fibrous Asbestos Comment PLM 7/23/2024 White 0.0% 100.0% <1% Chrysotile Lab Sample ID: 052403166-0034 RH-17-2 Client Sample ID: Sample Description: Basement - South Lobby Wall/Joint Compound Non-Asbestos Analyzed TEST Date Color Fibrous Non-Fibrous Comment Asbestos PLM 7/23/2024 White 0.0% 100.0% <1% Chrysotile 052403166-0035 RH-17-3 Lab Sample ID: Client Sample ID: Sample Description: Basement - South Lobby Wall/Joint Compound Analyzed Non-Asbestos TEST Date Color Fibrous Non-Fibrous Asbestos Comment PLM White 100.0% 7/23/2024 0.0% <1% Chrysotile Lab Sample ID: 052403166-0036 RH-18-1 Client Sample ID: Sample Description: Basement - Women's Bathroom/Top Coat - Ceiling Plaster Analyzed Non-Asbestos Non-Fibrous Comment TEST Fibrous Date Color Asbestos PLM 7/23/2024 White 0.0% 100.0% None Detected Lab Sample ID: 052403166-0037 Client Sample ID: RH-18-2 Sample Description: Basement - Men's Bathroom/Top Coat - Ceiling Plaster Analyzed Non-Asbestos Comment TEST Date Color Fibrous Non-Fibrous Asbestos

7/23/2024

White

0.0%

100.0%

None Detected

PLM



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#### Summary Test Report for Asbestos Analysis of Bulk Materials in Accordance with N.J.A.C. 8:60 and 12:120 Lab Sample ID: 052403166-0038 Client Sample ID: RH-18-3 Sample Description: Basement - Lockers Room/Top Coat - Ceiling Plaster Analyzed Non-Asbestos TEST Date Fibrous Non-Fibrous Color Asbestos Comment PLM 7/23/2024 White 0.0% 100.0% None Detected Client Sample ID: RH-19-1 Lab Sample ID: 052403166-0039 Sample Description: Basement - Women's Bathroom/Base Coat - Ceiling Plaster Analyzed Non-Asbestos TEST Date Color Fibrous Non-Fibrous Asbestos Comment PLM 7/23/2024 0.0% 100.0% None Detected Grav RH-19-2 Lab Sample ID: 052403166-0040 Client Sample ID: Sample Description: Basement - Men's Bathroom/Base Coat - Ceiling Plaster Analyzed Non-Asbestos TEST Date Fibrous Non-Fibrous Comment Color Asbestos PLM 7/23/2024 Gray 0.0% 100.0% None Detected RH-19-3 Lab Sample ID: 052403166-0041 Client Sample ID: Sample Description: Basement - Lockers Room/Base Coat - Ceiling Plaster Analyzed Non-Asbestos TEST Date Color Fibrous Non-Fibrous Asbestos Comment None Detected PLM 7/23/2024 Gray 0.0% 100.0% Lab Sample ID: 052403166-0042 RH-20-1 Client Sample ID: Sample Description: Basement - Windows/Glazing Compound Analyzed Non-Asbestos TEST Date Color Fibrous Non-Fibrous Asbestos Comment PLM Grav. Reduction 7/23/2024 Black 0.0% 99.7% 0.31% Chrysotile TEM Grav. Reduction 7/24/2024 Black 0.0% 98.8% 1.2% Chrysotile Lab Sample ID: 052403166-0043 Client Sample ID: RH-20-2 Sample Description: Basement - Windows/Glazing Compound Analyzed Non-Asbestos TEST Date Color Fibrous Non-Fibrous Asbestos Comment PLM Grav. Reduction Black 0.46% Chrysotile 7/23/2024 0.0% 99.5% 7/24/2024 Positive Stop (Not Analyzed) TEM Grav. Reduction RH-21-1 Lab Sample ID: 052403166-0044 Client Sample ID: Sample Description: Basement - Mechanical Room/Large Pipe Wrap Cloth Non-Asbestos Analyzed TEST Non-Fibrous Comment Date Color Fibrous Asbestos PLM 7/23/2024 Brown/Gray/White 49.0% 51.0% None Detected Lab Sample ID: 052403166-0045 Client Sample ID: RH-21-2 Sample Description: Basement - Mechanical Room/Large Pipe Wrap Cloth Analyzed Non-Asbestos Comment TEST Date Color Fibrous Non-Fibrous Asbestos PLM 7/23/2024 Brown/Gray/White 51.0% 49.0% None Detected


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Sumn	nary Test Report fo	or Asbestos An	alysis o an	f Bulk Materi d 12:120	ials in Accorda	nce with N.J.	A.C. 8:60
Client Sample ID:	RH-21-3					Lab Sample ID:	052403166-0046
Sample Description:	Basement - Mechanical	Room/Large Pipe Wrap	Cloth				
	Analyzed		Non	-Asbestos			
TEST	Date	Color	Fibrous	Non-Fibrous	Asbestos	Comment	
PLM	7/23/2024	Brown/Gray/White	45.0%	55.0%	None Detected		
Client Sample ID:	RH-22-1					Lab Sample ID:	052403166-0047
Sample Description:	Exterior - Rear Wall/Gra	y Joint Compound					
	Analyzed		Non	-Asbestos			
TEST	Date	Color	Fibrous	Non-Fibrous	Asbestos	Comment	
PLM Grav. Reduction	7/24/2024	Gray	0.0%	100%	None Detected		
TEM Grav. Reduction	7/24/2024	Gray	0.0%	100.0%	None Detected		
Client Sample ID:	RH-22-2					Lab Sample ID:	052403166-0048
Sample Description:	Exterior - Rear Wall/Gra	y Joint Compound					
	Analyzed		Non	-Ashestas			
TEST	Date	Color	Fibrous	Non-Fibrous	Asbestos	Comment	
PLM Grav. Reduction	7/24/2024	Grav	0.0%	100%	None Detected		
TEM Grav. Reduction	7/24/2024	Gray	0.0%	100.0%	None Detected		
Client Sample ID:	RH-23-1					Lab Sample ID:	052403166-0049
Sample Description:	Exterior - Rear Wall/Bla	ck Sealant Backing					
	Analyzed		Non	-Asbestos			
TEST	Date	Color	Fibrous	Non-Fibrous	Asbestos	Comment	
PLM Grav. Reduction	7/23/2024	Black	0.0%	100%	None Detected		
TEM Grav. Reduction	7/24/2024	Black	0.0%	100.0%	None Detected		
Client Sample ID:	RH-23-2					Lab Sample ID:	052403166-0050
Sample Description:	Exterior - Rear Wall/Bla	ck Sealant Backing					
	Analyzed		Non	-Asbestos			
TEST	Date	Color	Fibrous	Non-Fibrous	Asbestos	Comment	
PLM Grav. Reduction	7/23/2024	Black	0.0%	100%	None Detected		
TEM Grav. Reduction	7/24/2024	Black	0.0%	100.0%	None Detected		



## EMSL Analytical, Inc.

1056 Stelton Road Piscataway, NJ 08854 Phone/Fax: (732) 981-0550 / (732) 981-0551 http://www.EMSL.com / piscatawaylab@emsl.com EMSL Order ID:052403166Customer ID:EFGB26Customer PO:011.12077Project ID:

Summary Test Report for Asbestos Analysis of Bulk Materials in Accordance with N.J.A.C. 8:60 and 12:120

#### Analyst(s):

Marc Williams PLM (14) TEM Grav. Reduction (2) Shruti Patel PLM Grav. Reduction (20) Susan Pollack TEM Grav. Reduction (16) Suzanne Matias PLM (16)

Reviewed and approved by:

Moh

C. Michael Slattery, Lab Manager or Other Approved Signatory

EMSL maintains liability limited to cost of analysis. Interpretation and use of test results are the responsibility of the client. This is a summary report; official reports are available on LabConnect or upon request and relates only to the samples reported above, and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. The report reflects the samples as received. Results are generated from the field sampling data (sampling volumes and areas, locations, etc.) provided by the client on the Chain of Custody. Samples are within quality control criteria and met method specifications unless otherwise noted. The above analyses were performed in general compliance with Appendix E to Subpart E of 40 CFR (previously EPA 600/M4-82-020 "Interim Method") but augmented with procedures outlined in the 1993 ("final") version of the method. This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST or any agency of the federal government. Non-friable organically bound materials present a problem matrix and therefore EMSL recommends gravimetric reduction prior to analysis. Unless requested by the client, building materials manufactured with multiple layers (i.e. linoleum, wallboard, etc.) are reported as a single sample. Estimation of uncertainty is available on request.

Samples analyzed by EMSL Analytical, Inc. Piscataway, NJ NYS ELAP 11423, NVLAP Lab Code 101048-2, Philadelphia 289, CT PH-0266 (Initial report from: 07/24/202413:17:06

Test Report:EPAMultiTests-7.32.2.D Printed: 7/24/2024 01:17PM

OrderID: 052403166

EMSL

## Asbestos Bulk Building Materials - Chain of Custody

EMSL Order Number / Lab Use Only

EMSL Analytical, Inc.

Cinnan	ninson, NJ 08077
PHONE	1-800-220-3675

EMSL ANALYTICAL	. INC.	0524031	66	PHONE <b>1-800-220-3675</b> Email. <b>c@emsi.com</b>
Customer ID:			Billing ID:	
Company Name:	Globai Inc	· · · ·	S Company Name: EFIC	Blobal Inc.
E Contact Name: Rol	hert North		Billing Contact Robe	rt North
5 Street Address: 11	Commerce May Suite	Δ	2 Street Address. 11 C	
	Commerce way Suite		co City, State, Zip: Toto	Country: LIC
		0/5+ 05		Va NJ 203
5 / J2			Email(s) for Invoice	.30-036
Rol	bert. North@etiglobal.	COM Project Inf	iomation	
Project 011 12(	077 Ewing N I	Projectan		Purchase 011 12077
Name/No.			US State where	State of Connecticut (CT) must select project location
If applicable, EMSL will provide)		<u> </u>	samples collected: NJ	Commercial (Taxable) Residential (Non-Taxable)
Sampled By Name: R. Nor	the, A Swieco	Sampor Bringence		Date Sampled No of Samples in Shipment 50
3 Hour	6 Hour 24 Hour	Turn-Around           32 Hour         48	-Time (TAT) Hour 72 Hour	96 Hour 1 Week 2 Week
·	Please call ahead for large project	is and/or turnaround times 6 Hours or Less. "32 Test Se	Hour TAT available for select tests only; samp	es muit de submitted by 11:30am.
KI DI LI COL COLO -	PLM - Bulk (reporting lim)	<u>tt</u>	· · · · · · · · · · · · · · · · · · ·	TEM - Butk
PLM EPA 600/R-9	13/116 (<1%) 1%)			:ra NUB IOR 198 4 (Non-Frisble - NY)
	170)			EPA 600/R-93/116 w Milling Prep (0 1%)
	(<0.25%) 1,000 (<0.1%) GRAVIMETRIC		·	Other Tests (please specify)
	(<0.25%) <b>[1,000</b> (<0.1%)			
NVS 198 1 (Enable	») e - NY)			
NYS 198.6 NOB (	Non-Friable - NY)			
NYS 198.8 (Vermi	culite SM-V)		Positrve Stop - C	learly Identified Homogeneous Areas (HA)
Samola Number	Hå Number			
RH-11	1		lan (abb	
$\frac{RI}{P_{II}} = 2$		Barnen L		Corper advisive
M-I-L	4	Dasewer Li	story -open area	
RH-2-1	2	Basement - Lol	by	12×12 brown floor tilp
<u>RH-2-2</u>	ĺ	Bosevent Lo	5by	/
RH - 3-1	3			Mastic to 12×12 Srow-
RH-3-2	V	4		tile
RH - 4-1	4	Bosemet-locke.	- room area	9×9 gray tiles
24-4-2	ú	/		4
RH-5-1	5			mashe to 9×9 ares
$Q_{11-\zeta-7}$	1			
CT1-3-2		x Box Intern Dory immedia (Complex	Constitutions Description Martin	+1105
	Spoura Instructions BING/C	r noyulatory nequilements (∋ample :	opeonications, microssing Methods	LINNS OF LARGELION, ETC J
				EFED EX x3
				<b><u><b>RECEIVED</b></u></b> (96885884262)
ethod of Shipment Fed	Ex, ,	110	Sample Condition Upon Recei	
elinquished by:	5 Auto	Date Tighe 0/24 420 P	Received by.	
elinquished by.		Date/Time.	Received by:	
ontrolled Document - Asbestos Bulk R7	9/14/2021	1		By_ CAR HAM
		DELECTRONIC SIGNATURE (By chec	king, I consent to signing this Chain of	Custode About SADoy Ale Chonic Signature.)
EMSL Analytical, Inc.'s L	aboratory Terms and Conditions constitutes	s are incorporated into this Chain o s acceptance and acknowledgment	f Custody by reference in their er of all terms and conditions by Co	ntirety. Submission of samples to EMSL Analytical, Inc. ustomer.



Asbestos Bulk Building Materials - Chain of Custody EMSL Order Number / Lab Use Only

Cinnaminson, NJ 08077 PHONE: 1-800-220-3675 EMAIL: c@emsl.com

052403166

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 Special both utions and/or Beculatory Beculatory (Sample Specifications, Brospecing Methods, Limits of Detection, etc.	- 1
opecial instructions and/or requirements (cample opecifications, more local sing methods, limits of Detection, et	23

Sampie Number	HA Number	Sample Location	Material Description
RH-18-1	18	Basement - Womens Bathroon	top cost - ceiling plast
RH-18-2		Basement Mens Bathroom	
RH-18-3	V	Basement - Lockers Room	U U
RH-19-1	19	Basement - Warnens Bathroom	base cost-certing plaste
RH-18-2	/	Basement - Mens Bathroom	
RH-19-3	V	Basement - Locker Roan	
RH-20-1	20	Beservert - windows	glazing comput
RH-20-2	Ý	V	V
RH-21-1	21	Basement - Mechanical Rean	pije wrap dath
RH-21-2	/	/	/
RH-21-3	V	J. J.	V
RH-22-1	22	Exterior Rear Wall	gray joint salant
RH-22-2	V	1	J J J
RH-23-1	23		black sealart backing
RH-23-2	J	V	L J
	· · · · · · · · · · · · · · · · · · ·		
		· · · · · · · · · · · · · · · · · · ·	RECEIVED
	<u></u>		
			By
ethod of Shipment: Fed	Ex 1	Sample Condition Upon Receipt.	EMSL PISCATAWAY
kinquished by: Refailed	> Muto	Date/Time: 7/1024 530PH Received by	Date/Time
linguished by:	VILL VI	Date/Time Received by	Deb 77 and a

AGREE TO ELECTRONIC SIGNATURE (By checking, I consent to signing this Chain of Custody document by electronic signature.)

EMSL Analytical, Inc.'s Laboratory Terms and Conditions are incorporated into this Chain of Custody by reference in their entirety. Submission of samples to EMSL Analytical, Inc. constitutes acceptance and acknowledgment of all terms and conditions by Customer.



## ANALYTICAL REPORT

Lab Number:	L2439049
Client:	E.F.I.
	155 West Street
	Suite 6
	Wilmington, MA 01887
ATTN:	Robert North
Phone:	(732) 236-6581
Project Name:	EWING NJ - ROSCOE HALL
Project Number:	011.12077
Report Date:	07/18/24

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0826), IL (200077), IN (C-MA-03), KY (KY98045), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), OR (MA-1316), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #525-23-122-91930A1).

Eight Walkup Drive, Westborough, MA 01581-1019 508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com



Serial\_No:07182416:33

Project Name:EWING NJ - ROSCOE HALLProject Number:011.12077

 Lab Number:
 L2439049

 Report Date:
 07/18/24

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2439049-01	RH-PCB1	SOLID	Not Specified	07/09/24 00:00	07/11/24
L2439049-02	RH-PCB2	SOLID	Not Specified	07/09/24 00:00	07/11/24



 Lab Number:
 L2439049

 Report Date:
 07/18/24

## NJ DEP Data of Known Quality Protocols Conformance/Non-Conformance Summary Questionnaire

1	For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed, including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the NJDEP Data of Known Quality performance standards?	YES
1a	Were the method specified handling, preservation, and holding time requirements met?	NO
1b	EPH Method: Was the EPH Method conducted without significant modifications (see Section 11.3 of respective DKQ methods)?	N/A
2	Were all samples received by the laboratory in a condition consistent with that described on the associated chain-of-custody document(s)?	YES
3	Were all samples received at an appropriate temperature $(4 \pm 2^{\circ} C)$ ?	YES
4	Were all QA/QC performance criteria specified in the NJDEP DKQP standards achieved?	NO
5a	Were reporting limits specified or referenced on the chain-of-custody or communicated to the laboratory prior to sample receipt?	NO
5b	Were these reporting limits met?	N/A
6	For each analytical method referenced in this laboratory report package, were results reported for all constituents identified in the method-specific analyte lists presented in the DKQP documents and/or site-specific QAPP?	YES
7	Are project-specific matrix spikes and/or laboratory duplicates included in this data set?	YES

Note: For all questions to which the response was "No" (with the exception of question #7), additional information must be provided in an attached narrative. If the answer to question #1, #1a or #1b is "No", the data package does not meet the requirements for "Data of Known Quality".



Project Name:EWING NJ - ROSCOE HALLProject Number:011.12077

Lab Number: L2439049 Report Date: 07/18/24

### **Case Narrative**

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively.

When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances, the specific failure is not narrated but noted in the associated QC Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data usability implications.

Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

HOLD POLICY - For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Alpha Project Manager and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Project Management at 800-624-9220 with any questions.



Project Name: EWING NJ - ROSCOE HALL Project Number: 011.12077 
 Lab Number:
 L2439049

 Report Date:
 07/18/24

### **Case Narrative (continued)**

## **Report Submission**

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

DKQP Related Narratives Report Submission In reference to question 5a: Reporting limits were not specified.

Sample Receipt

In reference to question 1a:

L2439049-01 and -02: The sample was received in an inappropriate container for the NJ PCB in Caulk - EPA 8082A analysis.

## PCBs

L2439049-02D: The sample has elevated detection limits due to limited sample volume available for analysis. In reference to question 4:

L2439049-01D and -02D: The surrogate recoveries are below the acceptance criteria for 2,4,5,6-tetrachlorom-xylene (0%) and decachlorobiphenyl (0%) due to the dilution required to quantitate the sample. Reextraction was not required; therefore, the results of the original analysis are reported.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature:

Cattlin Wallien Caitlin Walukevich

Title: Technical Director/Representative

Date: 07/18/24



# ORGANICS



# PCBS



				Serial_No:	07182416:33
Project Name:	EWING NJ - ROSCO	E HALL		Lab Number:	L2439049
Project Number:	011.12077			Report Date:	07/18/24
		SAMPLE RESULTS	5		
Lab ID:	L2439049-01	D		Date Collected:	07/09/24 00:00
Client ID:	RH-PCB1			Date Received:	07/11/24
Sample Location:	Not Specified			Field Prep:	Not Specified
Sample Depth:					
Matrix:	Solid			Extraction Method:	EPA 3540C
Analytical Method:	1,8082A			Extraction Date:	07/16/24 02:15
Analytical Date:	07/18/24 12:33			Cleanup Method:	EPA 3630
Analyst:	MEO			Cleanup Date:	07/17/24
Percent Solids:	Results reported	on an 'AS RECEIVED' ba	sis.	Cleanup Method:	EPA 3665A
				Cleanup Date:	07/17/24
				Cleanup Method:	EPA 3660B
				Cleanup Date:	07/17/24

Parameter	Result	Qualifier	Units	RL	MDL	<b>Dilution Factor</b>	Column
Polychlorinated Biphenyls by GC - Wes	stborough Lab						
Aroclor 1016	ND		mg/kg	617	175.	1000	А
Aroclor 1221	ND		mg/kg	617	180.	1000	А
Aroclor 1232	ND		mg/kg	617	137.	1000	А
Aroclor 1242	ND		mg/kg	309	110.	1000	А
Aroclor 1248	ND		mg/kg	617	173.	1000	А
Aroclor 1254	39200		mg/kg	617	126.	1000	А
Aroclor 1260	ND		mg/kg	617	138.	1000	А
Aroclor 1262	ND		mg/kg	617	127.	1000	А
Aroclor 1268	12800		mg/kg	309	109.	1000	В
PCBs, Total	52000		mg/kg	309	109.	1000	В

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	0	Q	30-150	А
Decachlorobiphenyl	0	Q	30-150	А
2,4,5,6-Tetrachloro-m-xylene	0	Q	30-150	В
Decachlorobiphenyl	0	Q	30-150	В



			Serial_No:	07182416:33
Project Name:	EWING NJ - ROSCO	E HALL	Lab Number:	L2439049
Project Number:	011.12077		Report Date:	07/18/24
		SAMPLE RESULTS		
Lab ID: Client ID: Sample Location:	L2439049-02 RH-PCB2 Not Specified	D	Date Collected: Date Received: Field Prep:	07/09/24 00:00 07/11/24 Not Specified
Sample Depth: Matrix: Analytical Method: Analytical Date: Analyst: Percent Solids:	Solid 1,8082A 07/18/24 03:21 EMR Results reported	l on an 'AS RECEIVED' basis.	Extraction Method: Extraction Date: Cleanup Method: Cleanup Date: Cleanup Method: Cleanup Date: Cleanup Method: Cleanup Date:	EPA 3540C 07/16/24 02:15 EPA 3630 07/17/24 EPA 3665A 07/17/24 EPA 3660B 07/17/24

Parameter	Result	Qualifier	Units	RL	MDL	<b>Dilution Factor</b>	Column				
Polychlorinated Biphenyls by GC - Westborough Lab											
Aroclor 1016	ND		mg/kg	760	216.	1000	А				
Aroclor 1221	ND		mg/kg	760	222.	1000	А				
Aroclor 1232	ND		mg/kg	760	169.	1000	А				
Aroclor 1242	ND		mg/kg	380	136.	1000	А				
Aroclor 1248	ND		mg/kg	760	213.	1000	А				
Aroclor 1254	19800		mg/kg	760	155.	1000	В				
Aroclor 1260	ND		mg/kg	760	171.	1000	А				
Aroclor 1262	ND		mg/kg	760	157.	1000	А				
Aroclor 1268	ND		mg/kg	380	134.	1000	А				
PCBs, Total	19800		mg/kg	380	134.	1000	В				

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	0	Q	30-150	A
Decachlorobiphenyl	0	Q	30-150	А
2,4,5,6-Tetrachloro-m-xylene	0	Q	30-150	В
Decachlorobiphenyl	0	Q	30-150	В



Project Name:	EWING NJ - ROSCOE HALL	Lab Number:	L2439049
Project Number:	011.12077	Report Date:	07/18/24

## Method Blank Analysis Batch Quality Control

Analytical Method:	
Analytical Date:	
Analyst:	

1,8082A 07/17/24 20:23 EMR Extraction Method:EPA 3540CExtraction Date:07/16/24 02:15Cleanup Method:EPA 3630Cleanup Date:07/17/24Cleanup Date:07/17/24Cleanup Date:07/17/24Cleanup Method:EPA 3660BCleanup Date:07/17/24

Parameter	Result	Qualifier	Units	RL		MDL	Column
Polychlorinated Biphenyls by GC -	Westborough	Lab for s	ample(s):	01-02	Batch:	WG194	7289-1
Aroclor 1016	ND		mg/kg	0.546		0.155	А
Aroclor 1221	ND		mg/kg	0.546		0.160	А
Aroclor 1232	ND		mg/kg	0.546		0.122	А
Aroclor 1242	ND		mg/kg	0.273		0.0978	А
Aroclor 1248	ND		mg/kg	0.546		0.153	А
Aroclor 1254	ND		mg/kg	0.546		0.111	А
Aroclor 1260	ND		mg/kg	0.546		0.123	А
Aroclor 1262	ND		mg/kg	0.546		0.112	А
Aroclor 1268	ND		mg/kg	0.273		0.0964	А
PCBs, Total	ND		mg/kg	0.273		0.0964	А

	Accep						
Surrogate	%Recovery	Qualifier	Criteria	Column			
2,4,5,6-Tetrachloro-m-xylene	87		30-150	A			
Decachlorobiphenyl	94		30-150	А			
2,4,5,6-Tetrachloro-m-xylene	88		30-150	В			
Decachlorobiphenyl	94		30-150	В			



## Lab Control Sample Analysis Batch Quality Control

Project Name: EWING NJ - ROSCOE HALL

Project Number: 011.12077

 Lab Number:
 L2439049

 Report Date:
 07/18/24

	LCS		LCSD		%Recovery			RPD	
Parameter	%Recovery	Qual	%Recovery	Qual	Limits	RPD	Qual	Limits	Column
Polychloringtod Biphonyls by GC Westhor	ough Lob Associa	tod compla(c)	· 01.02 Batch	· MC10472	90.2 WC104729	0.2			
Folychionnaled Biphenyis by GC - Westbol	OUGH LAD ASSOCIA	ateu sample(s)	. 01-02 Datch	. 10019472	.09-2 000194720	9-0			
Aroclor 1016	97		103		40-140	6		30	А
Aroclor 1260	86		92		40-140	7		30	А

	LCS	LCSD		Acceptance	
Surrogate	%Recovery	Qual %Recovery	Qual	Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	92	97		30-150	А
Decachlorobiphenyl	94	103		30-150	A
2,4,5,6-Tetrachloro-m-xylene	96	101		30-150	В
Decachlorobiphenyl	101	104		30-150	В



Project Name:EWING NJ - ROSCOE HALLProject Number:011.12077

## Sample Receipt and Container Information

Were project specific reporting limits specified?

## **Cooler Information**

Cooler	Custody Seal				
A	Absent				

Container Information		Initial		Initial Final				Frozen	
Container ID	Container Type	Cooler	pН	рН	deg C	Pres	Seal	Date/Time	Analysis(*)
L2439049-01A	Bag	А	NA		5.9	Y	Absent		NJ-8082-CAULK(14)
L2439049-02A	Bag	А	NA		5.9	Y	Absent		NJ-8082-CAULK(14)

NO



Serial\_No:07182416:33

## Project Name: EWING NJ - ROSCOE HALL

Project Number: 011.12077

## Lab Number: L2439049

## **Report Date:** 07/18/24

## GLOSSARY

### Acronyms

DL	- Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EMPC	- Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LOD	- Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
LOQ	- Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
	Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NDPA/DPA	- N-Nitrosodiphenylamine/Diphenylamine.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
NR	- No Results: Term is utilized when 'No Target Compounds Requested' is reported for the analysis of Volatile or Semivolatile Organic TIC only requests.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
TEF	- Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.
TEQ	- Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Report Format: DU Report with 'J' Qualifiers



#### **Project Name: EWING NJ - ROSCOE HALL**

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#### Lab Number: L2439049 **Report Date:** 07/18/24

#### Footnotes

1

		-

The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

#### Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Chlordane: The target compound Chlordane (CAS No. 57-74-9) is reported for GC ECD analyses. Per EPA, this compound "refers to a mixture of chlordane isomers, other chlorinated hydrocarbons and numerous other components." (Reference: USEPA Toxicological Review of Chlordane, In Support of Summary Information on the Integrated Risk Information System (IRIS), December 1997.)

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Waterpreserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'. Gasoline Range Organics (GRO): Gasoline Range Organics (GRO) results include all chromatographic peaks eluting from Methyl tert butyl ether through Naphthalene, with the exception of GRO analysis in support of State of Ohio programs, which includes all chromatographic peaks eluting from Hexane through Dodecane.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

PAH Total: With respect to Alkylated PAH analyses, the 'PAHs, Total' result is defined as the summation of results for all or a subset of the following compounds: Naphthalene, C1-C4 Naphthalenes, 2-Methylnaphthalene, 1-Methylnaphthalene, Biphenyl, Acenaphthylene, Acenaphthene, Fluorene, C1-C3 Fluorenes, Phenanthrene, C1-C4 Phenanthrenes/Anthracenes, Anthracene, Fluoranthene, Pyrene, C1-C4 Fluoranthenes/Pyrenes, Benz(a)anthracene, Chrysene, C1-C4 Chrysenes, Benzo(b)fluoranthene, Benzo(j)+(k)fluoranthene, Benzo(e)pyrene, Benzo(a)pyrene, Perylene, Indeno(1,2,3-cd)pyrene, Dibenz(ah)+(ac)anthracene, Benzo(g,h,i)perylene. If a 'Total' result is requested, the results of its individual components will also be reported.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. In addition, the 'PFAS, Total (6)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA, PFDA and PFOS. For MassDEP DW compliance analysis only, the 'PFAS, Total (6)' result is defined as the summation of results at or above the RL. Note: If a 'Total' result is requested, the results of its individual components will also be reported.

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

#### Data Qualifiers

- A - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.
- B - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).
- С - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
- D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
- Е - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
- F - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.
- G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.
- н - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
- I - The lower value for the two columns has been reported due to obvious interference.
- J - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively

Report Format: DU Report with 'J' Qualifiers



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#### Data Qualifiers

Identified Compounds (TICs). For calculated parameters, this represents that one or more values used in the calculation were estimated.

- M Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
- ND Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.
- NJ Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.
- P The RPD between the results for the two columns exceeds the method-specified criteria.
- Q The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)
- **R** Analytical results are from sample re-analysis.
- **RE** Analytical results are from sample re-extraction.
- **S** Analytical results are from modified screening analysis.
- V The surrogate associated with this target analyte has a recovery outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)
- Z The batch matrix spike and/or duplicate associated with this target analyte has a recovery/RPD outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)



Project Name:EWING NJ - ROSCOE HALLProject Number:011.12077

 Lab Number:
 L2439049

 Report Date:
 07/18/24

## REFERENCES

1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - VI, 2018.

## LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.



## **Certification Information**

#### The following analytes are not included in our Primary NELAP Scope of Accreditation:

#### Westborough Facility

EPA 624.1: m/p-xylene, o-xylene, Naphthalene

EPA 625.1: alpha-Terpineol EPA 8260D: <u>NPW</u>: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene; <u>SCM</u>: lodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene. EPA 8270E: <u>NPW</u>: Dimethylnaphthalene,1,4-Diphenylhydrazine, alpha-Terpineol, Azobenzene; <u>SCM</u>: Dimethylnaphthalene,1,4-Diphenylhydrazine. SM4500: <u>NPW</u>: Amenable Cyanide; <u>SCM</u>: Total Phosphorus, TKN, NO2, NO3.

Mansfield Facility SM 2540D: TSS. EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene. Nonpotable Water: EPA RSK-175 Dissolved Gases Biological Tissue Matrix: EPA 3050B

#### The following analytes are included in our Massachusetts DEP Scope of Accreditation

#### Westborough Facility:

#### Drinking Water

EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; EPA 353.2: Nitrate-N, Nitrite-N; SM4500NO3-F: Nitrate-N, Nitrite-N; SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500CI-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B EPA 524.2: THMs and VOCs; EPA 504.1: EDB, DBCP. Microbiology: SM9215B; SM9223-P/A, SM9223B-Colilert-QT,SM9222D.

#### Non-Potable Water

SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, EPA 350.1: Ammonia-N, LACHAT 10-107-06-1-B: Ammonia-N, EPA 351.1, SM4500NO3-F, EPA 353.2: Nitrate-N, SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300: Chloride, Sulfate, Nitrate. EPA 624.1: Volatile Halocarbons & Aromatics,

**EPA 608.3**: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs

EPA 625.1: SVOC (Acid/Base/Neutral Extractables).

Microbiology: SM9223B-Colilert-QT; Enterolert-QT, EPA 1600, EPA 1603, SM9222D.

#### Mansfield Facility:

#### **Drinking Water**

EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. EPA 200.8: Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. EPA 245.1 Hg. EPA 522, EPA 537.1.

#### Non-Potable Water

**EPA 200.7:** Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn. **EPA 200.8:** Al, Sb, As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn. **EPA 245.1** Hg. **SM2340B** 

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

Pace Pace Location Requested (City/State): CH Company Name: EFI Clebol Street Address: 11 Cconverce way To Focusa NJ 07512 Ctel- Container Brokent ALL (2027)			CHAIN-OF-CUSTODY Analytical Request Document Chain-of-Custody is a LEGAL DOCUMENT. Complete all relevant fields Contact/Report To: Kabert No-th Phone #: 732-236-6581 E-Mail: robert. north ecfiglobal.com cc E-Mail: Ggnes.Swreca Cafiglobal.com								L2439049 EFI		18JUL24			
Project Name:	0	1 11		Invoice E-mail:	e yerr	10010						Specify C	ontainer Size *	*	ľ	Container Size: (1) 1L, (2) 500mL, (3) 250mL,
Ewing NS -	hosto e r	Talli													0	I TetraCore, (8) 90mL, (6) 40mL vial, (7) Encore, Il TetraCore, (8) 90mL, (10) Other
Site Collection info/Facility ID (as applicable):				Purchase Order # (If applicable): Ounte #:	011.12	077				AN	Iden	tify Contain Anaha	is Requested	Type***		** Preservative Types: (3) None, (2) HNO5, (3) H2SO4, (i) HO, (5) NeOH, (5) Zn Aostate, (7) NeHSO4, (8) Sod. Noselfate, (5) Assorbic Add, (10) MeOH, (31) Other
	titer she			County / State origin	f sampleis):	alent Terre				- T	1 1	1	TT			Proj. Mgr: 2
Data Deliverables:	Regulatory Program	n (DW, RCR	4, etc.) as a	pplicable: N/A		New Sery	Repo	rtable []Ye	is []No	×	11					AcctNum / Client ID: 99
[]Level II []Level III []Level IV []EQUIS	Rush (Pre-approv     Same Day	al required	]: 2 Day []	3 Day Other		DW PWSID # or W	W Permit # as	applicable:		Co						Table M.
[]Other	Date Results , Recuested:	71	ay -	TAT		Field Filten Analysis:	ed ()f applicabl	w): [ ] Yes	[ ]No	V						3 Profile / Template: 8
* Matrix Codes (Insert in Matrix hox below): Drinking Water (R Sludge (SL), Caulk (CK), Leachate (LL), Biosolid (BS), Oti	OW), Ground Water (GW) her (OT)	L Wastewater	(WW), Prod	uct (P), Soll/Solid (55), Ol	OL), Wipe (MP), T	boue (TS), Bioassay (B), Vap	or (V), Surface V	Water (SW), Se	sdiment (SED),	3o						Prelog / Bottle Ord, ID:
Customer Sample 10		Matrix *	Comp / Grab	Composite	Start	Collected or Cor	nposite End	# Cont.	Residual Otiorin Result Unit	02						Sample Comment
RHI-PCBI		OT	Gred			7/9/24				X						
RH-PCBZ		oT	Grab			d				×						
									_			-				
		-	-				-		-		+					
Additional losts others from Deca® :			-		Collected R					Customer	Remarks / 1	Special Con	vditions / Po	ssible Hazards:		
					Printed Nan Signature	1	N.	1		# Coolers:	Thermo	orbeter ID:	) Correction	Fector (°C) Obs. Tem	4 (°C)	Corrected Temp. (*C): [ ] On Ice
setingforms of icoment signary of the	-EFZ A	Chel	Oate	2/10/24	630	Received by/Company	toton	9	201	1,		7/11	/24	1403	Tracking	Numbert
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ATTACHMENT B

SAMPLE LOCATION DIAGRAMS



July 9, 2024





## **PCB Locations- Exterior**



July 9, 2024

ATTACHMENT C

**XRF READINGS** 

<b>Reading No</b>	Date/Time	Units	Component	Substrate	Side	Color	Floor	Room	Pb
1	7/9/2024 10:12	cps							
2	7/9/2024 10:14	cps							
3	7/9/2024 10:25	mg / cm ^2	Calibration	NIST Card		Red			1.06
4	7/9/2024 10:27	mg / cm ^2	Calibration	NIST Card		Red			1.06
5	7/9/2024 10:28	mg / cm ^2	Calibration	NIST Card		Red			1.04
6	7/9/2024 10:30	mg / cm ^2	Calibration	NIST Card		White			<lod< td=""></lod<>
7	7/9/2024 10:31	mg / cm ^2	Calibration	NIST Card		White			<lod< td=""></lod<>
8	7/9/2024 10:34	mg / cm ^2	Calibration	NIST Card		White			<lod< td=""></lod<>
9	7/9/2024 10:39	mg / cm ^2	Abort						<lod< td=""></lod<>
10	7/9/2024 10:40	mg / cm ^2	Abort						<lod< td=""></lod<>
11	7/9/2024 10:40	mg / cm ^2	Abort						<lod< td=""></lod<>
12	7/9/2024 10:47	mg / cm ^2	Wall	Concrete	A1	White	Lower	11	<lod< td=""></lod<>
13	7/9/2024 10:54	mg / cm ^2	Wall	Drywall	B1	Beige	Level	11	<lod< td=""></lod<>
14	7/9/2024 10:55	mg / cm ^2	Wall	Concrete	B1	White		11	<lod< td=""></lod<>
15	7/9/2024 10:59	mg / cm ^2	Wall	Concrete	C1	White		11	<lod< td=""></lod<>
16	7/9/2024 11:02	mg / cm ^2	Wall	Concrete	B2	White		11	<lod< td=""></lod<>
17	7/9/2024 11:08	mg / cm ^2	Wall	Concrete	C2	White		11	<lod< td=""></lod<>
18	7/9/2024 11:11	mg / cm ^2	Wall	Concrete	D1	White		11	<lod< td=""></lod<>
19	7/9/2024 11:13	mg / cm ^2	Wall	Concrete	C3	White		11	<lod< td=""></lod<>
20	7/9/2024 11:16	mg / cm ^2	Wall	Concrete	D2	White		11	<lod< td=""></lod<>
21	7/9/2024 11:18	mg / cm ^2	Wall	Concrete	A2	White		11	<lod< td=""></lod<>
22	7/9/2024 11:24	mg / cm ^2	Wall	Concrete	D3	White		11	<lod< td=""></lod<>
23	7/9/2024 11:30	mg/cm^2	Wall	Concrete	A3	White		11	0.02
24	7/9/2024 11:37	mg / cm ^2	Wall	Concrete	D4	White		11	<lod< td=""></lod<>
25	7/9/2024 11:41	mg/cm^2	Wall	Concrete	A4	White		11	0.02
26	7/9/2024 11:55	mg/cm^2	Wall	Concrete	B3	White		11	0.04
27	7/9/2024 12:00	mg/cm^2	Door Frame	Metal	A1	Black		11	0.03
28	7/9/2024 12:08	mg/cm^2	Door Frame	Metal	A1	Beige		11	0.06
29	7/9/2024 12:14	mg / cm ^2	Door Panel	Metal	A1	Beige		11	<lod< td=""></lod<>
30	7/9/2024 12:27	mg / cm ^2	Win. Frame	Metal	A4	Brown		11	<lod< td=""></lod<>
31	7/9/2024 12:36	mg / cm ^2	Wall Panel	Metal	D1	Beige		11	<lod< td=""></lod<>
32	7/9/2024 12:39	mg/cm^2	Hose Cabinet	Metal	B2	Red		11	0.05
33	7/9/2024 12:45	mg / cm ^2	Heater	Metal	A4	Tan		11	<lod< td=""></lod<>
34	7/9/2024 12:50	mg / cm ^2	Elevator Door	Metal	C1	Brown		11	1.11
35	7/9/2024 12:51	mg / cm ^2	<b>Elevator Frame</b>	Metal	C1	Brown		11	1.54
36	7/9/2024 12:56	mg / cm ^2	Column	Concrete	C1	White		11	<lod< td=""></lod<>
37	7/9/2024 12:59	mg / cm ^2	Partition	Fiber board		Tan		11	<lod< td=""></lod<>
38	7/9/2024 13:59	mg / cm ^2	Wall	Concrete	А	White		4	<lod< td=""></lod<>
39	7/9/2024 14:01	mg / cm ^2	Wall	Concrete	В	White		4	<lod< td=""></lod<>
40	7/9/2024 14:02	mg / cm ^2	Wall	Ceramic	В	White		4	0.03
41	7/9/2024 14:07	mg / cm ^2	Wall	Concrete	С	White		4	<lod< td=""></lod<>
42	7/9/2024 14:09	mg / cm ^2	Wall	Concrete	D	White		4	<lod< td=""></lod<>
43	7/9/2024 14:10	mg / cm ^2	Column	Concrete	Α	White		4	<lod< td=""></lod<>

44	7/9/2024 14:11 mg/cm^2	Shelf	Wood	А	White	Lower	4	<lod< th=""></lod<>
45	7/9/2024 14:17 mg/cm^2	Wall	Concrete	А	White	Level	5	<lod< td=""></lod<>
46	7/9/2024 14:20 mg/cm^2	Wall	Ceramic	В	Tan		5	<lod< td=""></lod<>
47	7/9/2024 14:21 mg/cm^2	Wall	Concrete	С	White		5	<lod< td=""></lod<>
48	7/9/2024 14:22 mg/cm^2	Wall	Concrete	D	White		5	<lod< td=""></lod<>
49	7/9/2024 14:24 mg/cm^2	Ceiling	Plaster		White		5	<lod< td=""></lod<>
50	7/9/2024 14:30 mg/cm^2	Abort						<lod< td=""></lod<>
51	7/9/2024 14:31 mg / cm ^2	Wall	Ceramic	А	Tan		5-Toilet	0.05
52	7/9/2024 14:33 mg/cm ^2	Ceiling	Plaster		White		5-Toilet	<lod< td=""></lod<>
53	7/9/2024 14:35 mg/cm ^2	Floor	Ceramic		Tan		5-Toilet	<lod< td=""></lod<>
54	7/9/2024 14:36 mg/cm ^2	Floor	Ceramic		Brown		5-Toilet	<lod< td=""></lod<>
55	7/9/2024 14:43 cps							
56	7/9/2024 14:44 cps							
57	7/9/2024 14:48 mg/cm ^2	Calibration	NIST Card					1.03
58	7/9/2024 14:50 mg/cm ^2	Calibration	NIST Card					1.05
59	7/9/2024 14:51 mg/cm ^2	Calibration	NIST Card					1.05
60	7/9/2024 14:52 mg/cm^2	Calibration	NIST Card					<lod< td=""></lod<>
61	7/9/2024 14:53 mg/cm^2	Calibration	NIST Card					<lod< td=""></lod<>
62	7/9/2024 14:53 mg/cm ^2	Calibration	NIST Card					<lod< td=""></lod<>
63	7/9/2024 15:06 mg / cm ^2	Locker	Metal	В	Brown		5	0.03
64	7/9/2024 15:13 mg/cm ^2	Wall	Concrete	А	White		6	<lod< td=""></lod<>
65	7/9/2024 15:14 mg/cm ^2	Wall	Concrete	В	White		6	<lod< td=""></lod<>
66	7/9/2024 15:15 mg/cm ^2	Wall	Concrete	С	White		6	<lod< td=""></lod<>
67	7/9/2024 15:16 mg / cm ^2	Wall	Ceramic	D	Gray		6	0.04
68	7/9/2024 15:19 mg/cm ^2	Ceiling	Plaster		White		6	<lod< td=""></lod<>
69	7/9/2024 15:26 mg/cm^2	Ceiling	Plaster		White		6-Toilet	<lod< td=""></lod<>
70	7/9/2024 15:29 mg/cm^2	Floor	Ceramic		Gray		6-Toilet	<lod< td=""></lod<>
71	7/9/2024 15:30 mg/cm ^2	Floor	Ceramic		Red		6-Toilet	<lod< td=""></lod<>
72	7/9/2024 15:39 mg/cm^2	Wall	Concrete	А	White		9	<lod< td=""></lod<>
73	7/9/2024 15:40 mg/cm^2	Wall	Concrete	В	White		9	<lod< td=""></lod<>
74	7/9/2024 15:41 mg/cm ^2	Wall	Concrete	С	White		9	<lod< td=""></lod<>
75	7/9/2024 15:42 mg/cm ^2	Wall	Concrete	D	White		9	<lod< td=""></lod<>
76	7/9/2024 15:43 mg / cm ^2	Wall Panel	Wood	В	White		9	0.03
77	7/9/2024 15:46 mg/cm ^2	Wall Panel	Wood	D	Beige		9	<lod< td=""></lod<>
78	7/9/2024 15:48 mg/cm ^2	Heater	Metal	С	Tan		9	<lod< td=""></lod<>
79	7/9/2024 15:59 mg / cm ^2	Floor	Concrete		Gray		10	0.05
80	7/9/2024 16:03 mg / cm ^2	Ceiling	Plaster		White		10	0.09
81	7/9/2024 16:17 mg/cm^2	Wall	Ceramic	А	Gray		18A	<lod< td=""></lod<>
82	7/9/2024 16:19 mg/cm ^2	Wall	Ceramic	В	Gray		18A	<lod< td=""></lod<>
83	7/9/2024 16:20 mg/cm ^2	Wall	Ceramic	С	Gray		18A	<lod< td=""></lod<>
84	7/9/2024 16:21 mg / cm ^2	Wall	Ceramic	D	Gray		18A	0.03
85	7/9/2024 16:24 mg/cm ^2	Ceiling	Plaster		White		18A	<lod< td=""></lod<>
86	7/9/2024 16:25 mg/cm^2	Floor	Ceramic		Gray		18A	<lod< td=""></lod<>
87	7/9/2024 16:27 mg/cm ^2	Floor	Ceramic		Red		18A	<lod< td=""></lod<>

88	7/9/2024 16:38 mg/cm^2	Floor	Ceramic		Gray	Lower	18	<lod< th=""></lod<>
89	7/9/2024 16:40 mg/cm^2	Floor	Ceramic		Red	Level	18	<lod< td=""></lod<>
90	7/9/2024 16:42 mg/cm^2	Ceiling	Plaster		White		18	<lod< td=""></lod<>
91	7/9/2024 16:59 mg/cm^2	Ceiling	Plaster		White		17	<lod< td=""></lod<>
92	7/9/2024 17:00 mg/cm^2	Floor	Ceramic		Gray		17	<lod< td=""></lod<>
93	7/9/2024 17:01 mg/cm ^2	Floor	Ceramic		Red		17	<lod< td=""></lod<>
94	7/9/2024 17:20 mg/cm^2	Wall	Fiber board	Α	Tan		15	<lod< td=""></lod<>
95	7/9/2024 17:22 mg/cm ^2	Wall	Concrete	В	White		15	<lod< td=""></lod<>
96	7/9/2024 17:23 mg/cm^2	Wall	Concrete	С	White		15	<lod< td=""></lod<>
97	7/9/2024 17:24 mg/cm^2	Wall	Drywall	D	White		15	<lod< td=""></lod<>
98	7/9/2024 17:29 mg/cm^2	Wall	Fiber board	Α	Tan		14	<lod< td=""></lod<>
99	7/9/2024 17:30 mg/cm^2	Wall	Drywall	В	White		14	<lod< td=""></lod<>
100	7/9/2024 17:31 mg/cm ^2	Wall	Concrete	С	White		14	<lod< td=""></lod<>
101	7/9/2024 17:32 mg / cm ^2	Wall	Concrete	D	White		14	<lod< td=""></lod<>
102	7/9/2024 17:36 mg / cm ^2	Wall	Ceramic	А	Beige	16A		0.05
103	7/9/2024 17:42 mg/cm^2	<b>Toilet Partition</b>	Metal		Brown		16	<lod< td=""></lod<>
104	7/9/2024 17:44 mg/cm^2	Floor	Ceramic		Beige		16	<lod< td=""></lod<>
105	7/9/2024 17:45 mg/cm^2	Floor	Ceramic		Brown		16	<lod< td=""></lod<>
106	7/9/2024 17:48 mg/cm^2	Ceiling	Plaster		White		16	<lod< td=""></lod<>
107	7/9/2024 17:50 mg/cm^2	<b>Toilet Partition</b>	Metal		Gray		17	<lod< td=""></lod<>
108	7/9/2024 17:56 mg/cm^2	Wall Panel	Fiber board	А	Tan		13	<lod< td=""></lod<>
109	7/9/2024 17:57 mg/cm^2	Wall Panel	Fiber board	В	Tan		13	<lod< td=""></lod<>
110	7/9/2024 17:58 mg/cm^2	Wall Panel	Fiber board	С	Tan		13	<lod< td=""></lod<>
111	7/9/2024 17:59 mg/cm^2	Wall Panel	Fiber board	D	Tan		13	<lod< td=""></lod<>
112	7/9/2024 18:01 mg/cm^2	Wall Panel	Fiber board	А	Tan		12	<lod< td=""></lod<>
113	7/9/2024 18:02 mg/cm^2	Wall Panel	Fiber board	В	Tan		12	<lod< td=""></lod<>
114	7/9/2024 18:03 mg/cm^2	Wall Panel	Fiber board	С	Tan		12	<lod< td=""></lod<>
115	7/9/2024 18:03 mg/cm^2	Wall Panel	Fiber board	D	Tan		12	<lod< td=""></lod<>
116	7/9/2024 18:15 mg/cm^2	Wall	Concrete	А	White		2	<lod< td=""></lod<>
117	7/9/2024 18:16 mg/cm^2	Wall	Concrete	В	White		2	<lod< td=""></lod<>
118	7/9/2024 18:17 mg/cm^2	Wall	Concrete	С	White		2	<lod< td=""></lod<>
119	7/9/2024 18:17 mg/cm^2	Wall	Concrete	D	White		2	<lod< td=""></lod<>
120	7/9/2024 18:19 mg/cm^2	Honeywell Box	Metal	А	Red		2	<lod< td=""></lod<>
121	7/9/2024 18:20 mg / cm ^2	Library CT Box	Metal	С	Green		2	<lod< td=""></lod<>
122	7/9/2024 18:21 mg / cm ^2	Door Frame	Metal	С	Brown		2	0.02
123	7/9/2024 18:23 mg / cm ^2	Door Panel	Metal	С	Brown		2	<lod< td=""></lod<>
124	7/9/2024 18:24 mg / cm ^2	Water Pump	Metal		Red		2	0.46
125	7/9/2024 18:26 mg/cm^2	Compressor	Metal		Blue		2	<lod< td=""></lod<>
126	7/9/2024 18:27 mg / cm ^2	Exp. Tank	Metal		Red		2	<lod< td=""></lod<>
127	7/9/2024 18:29 mg / cm ^2	J Control Box	Metal	D	Green		2	0.03
128	7/9/2024 18:33 mg/cm^2	Calibration	NIST Card		Red			1.05
129	7/9/2024 18:34 mg/cm^2	Calibration	NIST Card		Red			1.03
130	7/9/2024 18:35 mg/cm^2	Calibration	NIST Card		Red			1.02
131	7/9/2024 18:36 mg/cm ^2	Calibration	NIST Card		White			<lod< td=""></lod<>

132	7/9/2024 18:37 mg / cm ^2 Calibration	NIST Card	White	<lod< th=""></lod<>
133	7/9/2024 18:38 mg / cm ^2 Calibration	NIST Card	White	<lod< td=""></lod<>

Note Lead-Based Paint per EPA/HUD/NJDOH Lead-Containing Paint per OSHA

President Michael Bernstein, Ph.D Vice President for Operations Sharon Blanton, Ph.D **Director of Planning and Campus Architecture Maggie Greco Director of Campus** Construction William Rudeau Architect **NORR** Architects Engineer Moore, a Bowman Company

PROJECT RENDERING

## **ROSCOE WEST HALL RENOVATIONS**

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## FUNDING PROVIDED, IN PART, THROUGH THE HIGHER EDUCATION FACILITIES TRUST GRANT

## SECTION 055213 PIPE AND TUBE RAILINGS

## PART 1 GENERAL

## **1.01 SECTION INCLUDES**

- A. Wall mounted handrails.
- B. Stair railings and guardrails.
- C. Free-standing railings at steps.

## 1.02 RELATED REQUIREMENTS

A. Section 099113 - Exterior Painting: Paint finish.

## 1.03 REFERENCE STANDARDS

- A. ASTM A500/A500M Standard Specification for Cold-Formed Welded and Seamless Carbon Steel Structural Tubing in Rounds and Shapes; 2023.
- B. ASTM A780/A780M Standard Practice for Repair of Damaged and Uncoated Areas of Hot-Dip Galvanized Coatings; 2020.
- C. AWS D1.1/D1.1M Structural Welding Code Steel; 2020, with Errata (2022).
- D. SSPC-Paint 15 Steel Joist Shop Primer/Metal Building Primer; 2004.

## 1.04 SUBMITTALS

- A. See Section 013000 Administrative Requirements, for submittal procedures.
- B. Shop Drawings: Indicate profiles, sizes, connection attachments, anchorage, size and type of fasteners, and accessories.

## PART 2 PRODUCTS

## 2.01 RAILINGS - GENERAL REQUIREMENTS

- A. Design, fabricate, and test railing assemblies in accordance with the most stringent requirements of applicable local code.
- B. Allow for expansion and contraction of members and building movement without damage to connections or members.
- C. Dimensions: See drawings for configurations and heights.
- D. Provide anchors and other components as required to attach to structure, made of same materials as railing components unless otherwise indicated; where exposed fasteners are unavoidable provide flush countersunk fasteners.

## 2.02 STEEL RAILING SYSTEM

- A. Steel Tube: ASTM A500/A500M Grade B cold-formed structural tubing.
- B. Shop and Touch-Up Primer: SSPC-Paint 15, complying with VOC limitations of authorities having jurisdiction.

## 2.03 FABRICATION

- A. Accurately form components to suit specific project conditions and for proper connection to building structure.
- B. Fit and shop assemble components in largest practical sizes for delivery to site.
- C. Fabricate components with joints tightly fitted and secured. Provide spigots and sleeves to accommodate site assembly and installation.
- D. Welded Joints:
  - 1. Exterior Components: Continuously seal joined pieces by intermittent welds and plastic filler. Drill condensate drainage holes at bottom of members at locations that will not encourage water intrusion.
  - 2. Grind exposed joints flush and smooth with adjacent finish surface. Make exposed joints butt tight, flush, and hairline. Ease exposed edges to small uniform radius.

- E. Weld connections that cannot be shop welded due to size limitations.
  - 1. Weld in accordance with AWS D1.1/D1.1M.
  - 2. Match shop welding and bolting.
  - 3. Clean welds, bolted connections, and abraded areas.
  - 4. Touch up shop primer and factory-applied finishes.
  - 5. Repair galvanizing with galvanizing repair paint per ASTM A780/A780M.

## PART 3 EXECUTION

## 3.01 EXAMINATION

A. Verify that field conditions are acceptable and are ready to receive work.

## 3.02 PREPARATION

## 3.03 INSTALLATION

- A. Install in accordance with manufacturer's instructions.
- B. Install components plumb and level, accurately fitted, free from distortion or defects, with tight joints.
- C. Anchor railings securely to structure.

## END OF SECTION

## SECTION 0 31 FIBERGLASS REINFORCED PANELING

## PART 1 GENERAL

## **1.01 SECTION INCLUDES**

- A. Fiberglass reinforced plastic panels.
- B. Trim.

## 1.02 REFERENCE STANDARDS

- A. ASTM D5319 Standard Specification for Glass-Fiber Reinforced Polyester Wall and Ceiling Panels; 2022.
- B. ASTM E84 Standard Test Method for Surface Burning Characteristics of Building Materials; 2022.

## PART 2 PRODUCTS

## 2.01 MANUFACTURERS

- A. Fiberglass Reinforced Plastic Panels: Basis of Design: oroguard, as indicated on drawings.
- B. Or approved equal from one of the following:
  - 1. Crane Composites, Inc.
  - 2. Marlite, Inc.
  - 3. Nudo Products, Inc.

## 2.02 PANEL SYSTEMS

- A. Wall Panels:
  - 1. Panel Size: 4 by 8 feet (1.2 by 2.4 m).
  - 2. Panel Thickness: 0.10 inch (2.5 mm).
  - 3. Surface Design: Embossed.
  - 4. Color: As indicaticated

## 2.03 MATERIALS

- A. Panels: Fiberglass reinforced plastic (FRP), complying with ASTM D5319.
  - 1. Surface Burning Characteristics: Maximum flame spread index of 25 and smoke developed index of 450; when system tested in accordance with ASTM E84.
- B. Trim: Vinyl; color coordinating with panel.
- C. Sealant: Type recommended by panel manufacturer; white.

## PART 3 EXECUTION

## 3.01 EXAMINATION

- A. Verify existing conditions and substrate flatness before starting work.
- B. Verify that substrate conditions are ready to receive the work of this section.

## 3.02 INSTALLATION - ALLS

- A. Install panels in accordance with manufacturer's instructions.
- B. Cut and drill panels with carbide tipped saw blades, drill bits, or snips.
- C. Apply adhesive to the back side of the panel using trowel as recommended by adhesive manufacturer.
- D. Apply panels to wall with seams plumb and pattern aligned with adjoining panels.
- E. Install panels with manufacturer's recommended gap for panel field and corner joints.
- F. Place trim on panel before fastening edges, as required.
- G. Fill channels in trim with sealant before attaching to panel.
- H. Install trim with adhesive and screws or nails, as required.

- I. Seal gaps at floor, ceiling, and between panels with applicable sealant to prevent moisture intrusion.
- J. Remove excess sealant after paneling is installed and prior to curing.

## END OF SECTION
#### SECTION 0 422 AUTOMATIC ENTRANCES

#### PART 1 GENERAL

#### 1.01 SECTION INCLUDES

- A. Sliding type packaged power-operated door assemblies.
- B. Controllers, actuators and safety devices.

#### 1.02 RELATED REQUIREMENTS

A. Section 2 0583 - Wiring Connections.

#### 1.03 REFERENCE STANDARDS

- A. ADA Standards 2010 ADA Standards for Accessible Design; 2010.
- B. BHMA A15 .10 Power Operated Pedestrian Doors; 2017.
- C. NFPA 101 Life Safety Code; Most Recent Edition Adopted by Authority Having Jurisdiction, Including All Applicable Amendments and Supplements.

#### 1.04 SUBMITTALS

- A. See Section 013000 Administrative Requirements for submittal procedures.
- B. Shop Drawings:
  - 1. Indicate layout and dimensions; head, jamb, and sill conditions; elevations; components, anchorage, recesses, materials, and finishes, electrical characteristics and connection requirements.
  - 2. Identify installation tolerances required, assembly conditions, routing of service lines and conduit, and locations of operating components and boxes.
- C. Product Data: Include system components, sizes, features, and finishes.
- D. Maintenance Data: Include manufacturer's parts list and maintenance instructions for each type of hardware and operating component.

#### 1.05 QUALITY ASSURANCE

A. Manufacturer ualifications: Company specializing in manufacturing products specified in this section, with not less than three years of documented experience, and a member of AAADM.

#### PART 2 PRODUCTS

#### 2.01 MANUFACTURERS

- A. Sliding Automatic Entrance Door Assemblies:
  - 1. Basic of Design: Stanley Access Technologies as indicated on drawings. Or approved equal from one of the following:
  - 2. ASSA ABLO Entrance Solutions.
  - 3. DORMA USA, Inc; ESA200:
  - 4. Horton Automatics, a division of Overhead Door Corporation; S2000 Series
  - 5. Substitutions: See Section 01 000 Product Requirements.

#### 2.02 PO ER OPERATED DOORS

- A. Power Operated Doors: Provide products that comply with NFPA 101 and requirements of authorities having jurisdiction; provide equipment selected for actual door weight and for light pedestrian traffic, unless otherwise indicated.
  - 1. Packaged Door Assemblies: Provide components by single manufacturer, factoryassembled, including doors, frames, operators, actuators, and safeties.
- B. Sliding Doors with Full Power Operators: Comply with BHMA A15 .10; safeties required; provide break-away operation unless otherwise indicated; in the event of break-away operation, interrupt power operation.
- C. Operators:
  - 1. Electric Operators: 1/4 hp minimum, self-contained, chain driven.

#### 2.03 AUTOMATIC ENTRANCE DOOR ASSEMBLIES

- A. Comply with ADA Standards for egress requirements.
- B. Framing Members: Provide manufacturer's standard extruded aluminum framing, reinforced as required to support imposed loads.
  - 1. Nominal Sizes:
    - a. Single Slide Sliding Doors: 1-3/4 inch (44.5 mm) wide by 4-1/2 inch (114.3 mm) deep.
- C. Door and Sidelight Construction: Heavy duty interlocked extruded aluminum tubular stile and rail sections, through-rod bolted construction with steel corner support at hinge stile of carrier-suspended swinging panels or mechanically fastened corners with welded reinforcing brackets to reduce sag in sliding or breakout mode.
  - 1. Door Thickness: 1-3/4 inch (44.5 mm), nominal.
  - 2. Stile Design:
    - a. Medium stile, 3-1/2 inch (89 mm), nominal width.
  - 3. Top Rail Height: 4 inch (102 mm), nominal.
  - 4. Bottom Rail Height: 10 inch (254 mm), nominal.
  - 5. Glazing Stops: Manufacturer's standard snap-on extruded aluminum square stops with preformed resilient glazing gaskets.
  - . Glazing Stop Width: Manufacturers standard.
  - 7. Interior Glazing Thickness: 1/4 inch (mm).
  - 8. Finish: See drawings
- D. Sliding Automatic Door: Single leaf track-mounted, electric operation, extruded aluminum glazed door, with frame, and operator concealed overhead.
  - 1. Operation: Power open, power boost operation.
  - 2. Exterior-Side Actuator/Safety: Motion sensor.
  - 3. Interior-Side Actuator/Safety: Motion sensor.
  - 4. Door and Frame Finish: See drawings.

#### 2.04 CONTROLLERS ACTUATORS AND SAFETIES

- A. Controller: Provide microprocessor operated controller for each door.
- B. Comply with BHMA A15 .10 for actuator and safety types and zones.
- C. Motion Sensor Actuator/Safety: Passive infrared; distance of control sensitivity adjustable.

#### PART 3 EXECUTION

#### 3.01 EXAMINATION

- A. Verify that surfaces are ready to receive work and dimensions are as indicated on shop drawings.
- B. Verify that electric power is available, at the correct location, and is of the correct characteristics.

#### 3.02 INSTALLATION

A. Install equipment in accordance with manufacturer's written instructions, except where more stringent requirements are specified.

#### 3.03 AD USTING

A. Adjust entrances for correct function and smooth operation, without binding or scraping and without excessive noise; lubricate operating hardware and other moving parts.

#### 3.04 CLEANING

A. Remove temporary protection; clean exposed surfaces.

#### 3.05 CLOSEOUT ACTI ITIES

A. Demonstrate operation, operating components, adjustment features, and lubrication requirements.

#### SECTION 0 000 GLAZING

#### PART 1 GENERAL

#### **1.01 SECTION INCLUDES**

A. Glazing units.

#### 1.02 RELATED REQUIREMENTS

- A. Section 081213 Hollow Metal Frames: Glazed borrowed lites.
- B. Section 08141 Flush Wood Doors: Glazed lites in doors.
- C. Section 084313 Aluminum-Framed Storefronts: Glazing provided as part of aluminum framed assembly.

#### 1.03 REFERENCE STANDARDS

- A. 1 CFR 1201 Safety Standard for Architectural Glazing Materials; Current Edition.
- B. ANSI 97.1 American National Standard for Safety Glazing Materials Used in Buildings -Safety Performance Specifications and Methods of Test; 2015 (Reaffirmed 2020).
- C. ASTM C8 4 Standard Specification for Dense Elastomeric Compression Seal Gaskets, Setting Blocks, and Spacers; 2005 (Reapproved 2019).
- D. ASTM C103 Standard Specification for Flat Glass; 2021.
- E. ASTM C1048 Standard Specification for Heat-Strengthened and Fully Tempered Flat Glass; 2018.
- F. ASTM C1172 Standard Specification for Laminated Architectural Flat Glass; 2019.
- G. ASTM C1193 Standard Guide for Use of Joint Sealants; 201 .
- H. GANA (GM) GANA Glazing Manual; 2008.
- I. GANA (SM) GANA Sealant Manual; 2008.
- J. GANA (LGRM) Laminated Glazing Reference Manual; 2019.

#### 1.04 SUBMITTALS

- A. See Section 013000 Administrative Requirements for submittal procedures.
- B. Product Data on Glazing Unit Glazing Types: Provide structural, physical and environmental characteristics, size limitations, special handling and installation requirements.
- C. Product Data on Glazing Compounds and Accessories: Provide chemical, functional, and environmental characteristics, limitations, special application requirements, and identify available colors.
- D. Manufacturer's qualification statement.
- E. Installer's qualification statement.

#### 1.05 QUALITY ASSURANCE

- A. Manufacturer ualifications: Company specializing in manufacturing the products specified in this section with minimum three years of documented experience.
- B. Installer ualifications: Company specializing in performing work of the type specified and with at least three years documented experience.

#### 1.0 FIELD CONDITIONS

- A. Do not install glazing when ambient temperature is less than 40 degrees F (4 degrees C).
- B. Maintain minimum ambient temperature before, during and 24 hours after installation of glazing compounds.

#### 1.0 ARRANTY

A. See Section 017800 - Closeout Submittals for additional warranty requirements.

B. Heat Soaked Tempered Glass: Provide a five (5) year manufacturer warranty to include coverage for spontaneous breakage of fully tempered glass caused by nickel sulfide (NiS) inclusions.

#### PART 2 PRODUCTS

#### 2.01 MANUFACTURERS

- A. Glass Fabricators:
  - 1. Thompson I.G., LLC:
  - 2. Trulite Glass Aluminum Solutions, LLC:
  - 3. Viracon, Inc:
  - 4. Substitutions: See Section 01 000 Product Requirements.
- B. Laminated Glass Manufacturers:
  - 1. Cardinal Glass Industries;
  - 2. Thompson I.G., LLC; Laminated Glass:
  - 3. Viracon, Architectural Glass segment of Apogee Enterprises, Inc; www.viracon.com/ sle.
  - 4. Substitutions: See Section 01 000 Product Requirements.

#### 2.02 GLASS MATERIALS

- A. Float Glass: Provide float glass based glazing unless otherwise indicated.
  - 1. Annealed Type: ASTM C103, Type I Transparent Flat, Class 1 Clear, uality 3.
  - 2. ind FT Fully Tempered Type: Complies with ASTM C1048.
  - 3. Fully Tempered Safety Glass: Complies with ANSI 97.1 or 1 CFR 1201 criteria for safety glazing used in hazardous locations.
  - 4. Impact Resistant Safety Glass: Complies with ANSI 97.1 Class B, or 1 CFR 1201 Category I criteria.
  - 5. Thicknesses: As indicated.
- B. Laminated Glass: Float glass laminated in accordance with ASTM C1172.
  - 1. Laminated Safety Glass: Complies with ANSI 97.1 Class B or 1 CFR 1201 Category I impact test requirements.
  - 2. Polyvinyl Butyral (PVB) Interlayer: 0.0 0 inch (1.524 mm) thick, minimum.

#### 2.03 GLAZING UNITS

- A. Type GL-1: Monolithic Interior Vision Glazing:
  - 1. Applications: Interior glazing unless otherwise indicated.
  - 2. Glass Type: Fully tempered float glass.
  - 3. Tint: Clear.
  - 4. Thickness: 3/8.
  - 5. Glazing Method: Dry glazing method, gasket glazing. Clear silicone sealant at any butt glazing locations (1/4 joint, max)
- B. Type GL-2: Laminated Glazing, Non-fire-rated.
  - 1. Applications:
    - a. Where indicated on drawings.
    - b. Other locations required by applicable federal, state, and local codes and regulations.
  - 2. Glass Type: Laminated safety glass as specified.
  - 3. Tint: Clear.
  - 4. Thickness: 9/1
    - a. 1 Lite mm low iron tempered / .0 0" clear with partial pure white coating on 2 / 1 lite mm low iron tempered.

#### 2.04 LAMINATED GLASS INTERLAYERS

- A. Type LGI-1 Polyvinyl Butyral (PVB) Interlayer for Laminated Glazing:
  - 1. Functionality: Opacity behind glass to allow for privacy and writable surface.
  - 2. Color: White and clear. See drawings for additional infomation.
  - 3. Thickness: As required for indicated performance of laminated glass application.

#### 2.05 ACCESSORIES

- A. Setting Blocks: Silicone, with 80 to 90 Shore A durometer hardness; ASTM C8 4 Option II. Length of 0.1 inch for each square foot (25 mm for each square meter) of glazing or minimum 4 inch (100 mm) by width of glazing rabbet space minus 1/1 inch (1.5 mm) by height to suit glazing method and pane weight and area.
- B. Spacer Shims: Neoprene, 50 to 0 Shore A durometer hardness; ASTM C8 4 Option II. Minimum 3 inch (75 mm) long by one half the height of the glazing stop by thickness to suit application, self adhesive on one face.
- C. Glazing Splines: Resilient silicone extruded shape to suit glazing channel retaining slot; ASTM C8 4 Option II; color black.
- D. Glazing Clips: Manufacturer's standard type.

#### PART 3 EXECUTION

#### 3.01 ERIFICATION OF CONDITIONS

- A. Verify that openings for glazing are correctly sized and within tolerances, including those for size, squareness, and offsets at corners.
- B. Verify that surfaces of glazing channels or recesses are clean, free of obstructions that may impede moisture movement, weeps are clear, and support framing is ready to receive glazing system.
- C. Verify that sealing between joints of glass framing members has been completed effectively.

#### 3.02 INSTALLATION GENERAL

- A. Install glazing in compliance with written instructions of glass, gaskets, and other glazing material manufacturers, unless more stringent requirements are indicated, including those in glazing referenced standards.
- B. Install glazing sealants in accordance with ASTM C1193, GANA (SM), and manufacturer's instructions.

#### 3.03 INSTALLATION - DRY GLAZING MET OD GAS ET GLAZING

- A. Application Exterior and/or Interior Glazed: Set glazing infills from either the exterior or the interior of the building.
- B. Place setting blocks at 1/4 points with edge block no more than inch (152 mm) from corners.
- C. Rest glazing on setting blocks and push against fixed stop with sufficient pressure on gasket to attain full contact.
- D. Install removable stops without displacing glazing gasket; exert pressure for full continuous contact.

#### 3.04 CLEANING

- A. Remove excess glazing materials from finish surfaces immediately after application using solvents or cleaners recommended by manufacturers.
- B. Remove nonpermanent labels immediately after glazing installation is complete.
- C. Clean glass and adjacent surfaces after sealants are fully cured.
- D. Clean glass on both exposed surfaces not more than 4 days prior to Date of Substantial Completion in accordance with glass manufacturer's written recommendations.

#### 3.05 PROTECTION

- A. After installation, mark pane with an ' ' by using removable plastic tape or paste; do not mark heat absorbing or reflective glass units.
- B. Remove and replace glass that is damaged during construction period prior to Date of Substantial Completion.

#### SECTION 0 113 EXTERIOR PAINTING

#### PART 1 GENERAL

#### **1.01 SECTION INCLUDES**

- A. Surface preparation.
- B. Field application of paints.
- C. Scope: Finish exterior surfaces exposed to view, unless fully factory-finished and unless otherwise indicated, including the following:
- D. Do Not Paint or Finish the Following Items:
  - 1. Items factory-finished unless otherwise indicated; materials and products having factoryapplied primers are not considered factory finished.
  - 2. Items indicated to receive other finishes.
  - 3. Items indicated to remain unfinished.
  - 4. Fire rating labels, equipment serial number and capacity labels, and operating parts of equipment.

#### 1.02 RELATED REQUIREMENTS

A. Section 055213 - Pipe and Tube Railings: Shop-primed items.

#### 1.03 REFERENCE STANDARDS

- A. MPI (APSM) Master Painters Institute Architectural Painting Specification Manual; Current Edition.
- B. SSPC-SP 1 Solvent Cleaning; 2015, with Editorial Revision (201).

#### 1.04 SUBMITTALS

- A. See Section 013000 Administrative Requirements, for submittal procedures.
- B. Product Data: Provide complete list of products to be used, with the following information for each:
  - 1. Manufacturer's name, product name and/or catalog number, and general product category (e.g. alkyd enamel ).
  - 2. MPI product number (e.g. MPI 47).
  - 3. Cross-reference to specified paint system(s) product is to be used in; include description of each system.
- C. Samples: Submit three paper draw down samples, 8-1/2 by 11 inches (21 by 279 mm) in size, illustrating range of colors available for each finishing product specified.
  - 1. Where sheen is specified, submit samples in only that sheen.

#### **1.05 FIELD CONDITIONS**

- A. Do not apply materials when surface and ambient temperatures are outside the paint product manufacturer's temperature ranges.
- B. Follow manufacturer's recommended procedures for producing best results, including testing of substrates, moisture in substrates, and humidity and temperature limitations.
- C. Provide lighting level of 80 ft candles (8 0 lx) measured mid-height at substrate surface.

#### PART 2 PRODUCTS

#### 2.01 MANUFACTURERS

A. Provide paints and finishes used in any individual system from the same manufacturer; no exceptions.

#### 2.02 PAINTS AND FINIS ES - GENERAL

- A. Paints and Finishes: Ready-mixed, unless required to be a field-catalyzed paint.
  - 1. Provide paints and finishes of a soft paste consistency, capable of being readily and uniformly dispersed to a homogeneous coating, with good flow and brushing properties,

and capable of drying or curing free of streaks or sags.

- 2. Supply each paint material in quantity required to complete entire project's work from a single production run.
- 3. Do not reduce, thin, or dilute paint or finishes or add materials unless such procedure is described explicitly in manufacturer's product instructions.
- B. Colors: As indicated on drawings.

#### 2.03 PAINT SYSTEMS - EXTERIOR

- A. Paint E-OP Exterior Surfaces to be Painted, Unless Otherwise Indicated: Including primed metal.
  - 1. Two top coats and one coat primer.
  - 2. Top Coat(s): Exterior Latex; .MPI 119
    - a. Products:
      - 1) Behr Premium Plus Interior/Exterior Hi-Gloss Enamel No.8050 . (MPI 119)
      - 2) Sherwin-Williams Pro Industrial Acrylic, Gloss.
      - 3) Or approved equal.
  - 3. Top Coat Sheen:
    - a. Gloss: MPI gloss level ; use this sheen at all locations.
  - 4. Primer: As recommended by top coat manufacturer for specific substrate.

#### 2.04 PRIMERS

A. Primers: Provide the following unless other primer is required or recommended by manufacturer of top coats.

#### PART 3 EXECUTION

#### 3.01 EXAMINATION

- A. Do not begin application of paints and finishes until substrates have been properly prepared.
- B. Verify that surfaces are ready to receive work as instructed by the product manufacturer.
- C. Examine surfaces scheduled to be finished prior to commencement of work. Report any condition that may potentially effect proper application.
- D. Test shop-applied primer for compatibility with subsequent cover materials.

#### 3.02 PREPARATION

- A. Clean surfaces thoroughly and correct defects prior to application.
- B. Prepare surfaces using the methods recommended by the manufacturer for achieving the best result for the substrate under the project conditions.
- C. Remove or mask surface appurtenances, including electrical plates, hardware, light fixture trim, escutcheons, and fittings, prior to preparing surfaces for finishing.
- D. Seal surfaces that might cause bleed through or staining of topcoat.
- E. Remove mildew from impervious surfaces by scrubbing with solution of tetra-sodium phosphate and bleach. Rinse with clean water and allow surface to dry.
- F. Galvanized Surfaces:
  - 1. Remove surface contamination and oils and wash with solvent according to SSPC-SP 1.
- G. Ferrous Metal:
  - 1. Solvent clean according to SSPC-SP 1.
  - 2. Shop-Primed Surfaces: Sand and scrape to remove loose primer and rust. Feather edges to make touch-up patches inconspicuous. Clean surfaces with solvent. Prime bare steel surfaces. Re-prime entire shop-primed item.
  - 3. Remove rust, loose mill scale, and other foreign substances using methods recommended in writing by paint manufacturer and blast cleaning according to SSPC-SP Commercial Blast Cleaning. Protect from corrosion until coated.

#### 3.03 APPLICATION

- A. Apply products in accordance with manufacturer's written instructions and recommendations in MPI Architectural Painting Specification Manual .
- B. Do not apply finishes to surfaces that are not dry. Allow applied coats to dry before next coat is applied.
- C. Apply each coat to uniform appearance.
- D. Vacuum clean surfaces of loose particles. Use tack cloth to remove dust and particles just prior to applying next coat.
- E. Reinstall electrical cover plates, hardware, light fixture trim, escutcheons, and fittings removed prior to finishing.

#### SECTION 101100 ISUAL DISPLAY UNITS

#### PART 1 GENERAL

#### **1.01 SECTION INCLUDES**

A. Tackboards.

#### 1.02 REFERENCE STANDARDS

 ASTM E84 - Standard Test Method for Surface Burning Characteristics of Building Materials; 2022.

#### 1.03 SUBMITTALS

- A. See Section 013000 Administrative Requirements, for submittal procedures.
- B. Product Data: Provide manufacturer's data on chalkboard, porcelain enamel steel markerboard, glass markerboard, tackboard, tackboard surface covering, trim, and accessories.
- C. Shop Drawings: Indicate wall elevations, dimensions, joint locations, special anchor details.
- D. Samples: Color charts for selection of color and texture of chalkboard, porcelain enamel steel markerboard, glass markerboard, tackboard, tackboard surface covering, and trim.

#### PART 2 PRODUCTS

#### 2.01 ISUAL DISPLAY UNITS

- A. Tackboards: Fine-grained, homogeneous natural cork.
  - 1. Manufacturers:
    - a. Manufacturers: Forbo as indicated on drawing. Or approved equal.
    - 2. Cork Thickness: 1/8 inch (3 mm).
    - 3. Color: As selected from manufacturer's full range.
    - 4. Surface Burning Characteristics: Flame spread index of 25, maximum, and smoke developed index of 450, maximum, when tested in accordance with ASTM E84.
    - 5. Size: As indicated on drawings.

#### PART 3 EXECUTION

#### 3.01 EXAMINATION

- A. Verify that field measurements are as indicated.
- B. Verify that internal wall blocking is ready to receive work and positioning dimensions are as indicated on shop drawings.
- C. Verify flat wall surface for frameless adhesive-applied boards.

#### 3.02 PREPARATION

- A. Acclimatize tackable wall panels by removing from packaging in installation area not less than 24 hours before application.
- B. Remove switchplates, wall plates, and surface-mounted fixtures where tackable wall paneling is applied. Reinstall items on completion of installation.
- C. Prepare surfaces using the methods recommended by the manufacturer for achieving the best result for the substrate under the project conditions.

#### 3.03 INSTALLATION

- A. Install boards in accordance with manufacturer's instructions.
- B. Secure units level and plumb.
- C. Butt Joints: Install with tight hairline joints.
- D. Install tackable wall panels in accordance with manufacturer's recommendations on specified substrates with concealed attachments.
  - 1. Re-wrap top, bottom or side edges for cutting panels around door or window openings, abutting trim, protruding objects, and at other openings, including x-cut at receptacles,

light switches, and other openings.

#### SECTION 102113.1 PLASTIC TOILET COMPARTMENTS

#### PART 1 GENERAL

#### **1.01 SECTION INCLUDES**

- A. High density polyethylene (HPPE) toilet compartments.
- B. Urinal screens.

#### 1.02 RELATED REQUIREMENTS

A. Section 102800 - Toilet, Bath, and Laundry Accessories.

#### 1.03 REFERENCE STANDARDS

A. NFPA 28 - Standard Methods of Fire Tests for Evaluating Contribution of Wall and Ceiling Interior Finish to Room Fire Growth; 2019.

#### 1.04 ADMINISTRATI E REQUIREMENTS

A. Coordination: Coordinate the work with placement of support framing and anchors in walls and ceilings.

#### 1.05 SUBMITTALS

- A. See Section 013000 Administrative Requirements, for submittal procedures.
- B. Product Data: Provide data on panel construction, hardware, and accessories.
- C. Shop Drawings: Indicate partition plan, elevation views, dimensions, details of wall supports, door swings.
- D. Samples: Submit two samples of partition panels, in size illustrating panel finish, color, and sheen.

#### PART 2 PRODUCTS

#### 2.01 MANUFACTURERS

#### 2.02 PLASTIC TOILET COMPARTMENTS

- A. Solid Plastic Toilet Compartments: Factory fabricated doors, pilasters, and divider panels made of solid molded high density polyethylene (HDPE), tested in accordance with NFPA 28; overhead braced. Waterproof and nonabsorbant, with self-lubricating surface, resistant to marks by pens, pencils, markers and other writing surfaces.
  - 1. Basis of Design: Aria by Scranton Products. See drawings.
  - 2. Style: Full height floor mounted overhead braces. System Specified Height as required to match ceiling height.
  - 3. Recyled Content (Post Consumer): 100 percent.
  - 4. Fire Rating: Tested in accordance to NFPA 28 : Pass.
  - 5. Aluminum and Aluminum Extrusions: ASTM B221, 4 3-T5 alloy and temper.
  - . Stainless Steel: ASTM A1 7, Type 304
  - 7. Color: See drawings.
  - 8. Doors:
    - a. Thickness: 1 inch (25 mm).
    - b. Width: 24 inch ( 10 mm).
    - c. Width for Handicapped Use: 3 inch (915 mm), out-swinging.
    - d. Height: 79 inches (2007 mm) high. Mounted 1 inch (25mm) above finished floor.
    - e. Basic of Door Design: Traditional Series; Model 2000 or as approved by TCNJ.
  - 9. Dividing Panels: Two panels stacked and secured with 3 dowels ensuring proper alignment totaling the system specified height.
    - a. Trim: Application to hide seam gap between dividing panels.
    - b. Thickness: 1 inch (25 mm) with 1/4 ( mm) radiused edges. One edge of pilaster and transom panels to be shipped lapped.
    - c. Height: 55 inch (1397 mm).

- 10. Pilasters: System specified height, shoeless system secured with 3/4 inch (19 mm) long stainless steel tamper resistant Torx head screws and angled wall brackets.
  - a. Thickness: 1 inch (25 mm).
  - b. Width: As required to fit space; minimum 3 inch (7 mm).
- 11. Transom Panel: Height required to accomodate specified system height with ship lap on one edge. Mounted with four mending plates using 3/4 inch (19 mm) long stainless steel tamper resistant Torx head screws.
- 12. Wall Brackets: 54 inches (1372 mm) long, heavy-duty aluminum with bright dip anodized finish. Mounts to pilasters, panels and walls with 3/4 inch (19mm) long stainless steel tamper resistant Torx head screws.

#### 2.03 ACCESSORIES

- A. Attachments, Screws, and Bolts: Stainless steel, tamper proof type.
- B. Hinges: Helix style 78 inches (1981 mm) edge mounted continuous hinge.
  - 1. Stainless steel: 0.074 inch (1.88 mm) thick 304-2B stainless steel using a stainless-steel pin in 0.234 inch (5.94 mm) diameter.
  - 2. Closing degree is minus 5 degrees. Hinge is designed to come to a full close on its own weight.
- C. Occupancy Indicator Latch and Housing: Satin stainless-steel showing green and red occupancy indicators.
  - 1. Latch housing: Satin stainless steel.
  - 2. Slide bolt and button: Satin stainless steel.
  - 3. Door Pulls: Satin stainless steel.
- D. Coat Hook and bumper: One per compartment, mounted on door.
  - 1. Combination type, chrome plated amark.
  - 2. Equip outswing handicap doors with second door pull and door stop.

#### PART 3 EXECUTION

#### 3.01 EXAMINATION

- A. Verify that field measurements are as indicated.
- B. Verify correct spacing of and between plumbing fixtures.
- C. Verify correct location of built-in framing, anchorage, and bracing.

#### 3.02 INSTALLATION

- A. Install partitions secure, rigid, plumb, and level in accordance with manufacturer's instructions.
- B. Maintain 3/8 inch to 1/2 inch (9 mm to 13 mm) space between wall and panels and between wall and end pilasters.
- C. Attach panel brackets securely to walls using anchor devices.
- D. Attach panels and pilasters to brackets. Locate head rail joints at pilaster center lines.

#### 3.03 TOLERANCES

- A. Maximum Variation From True Position: 1/4 inch ( mm).
- B. Maximum Variation From Plumb: 1/8 inch (3 mm).

#### 3.04 AD USTING

- A. Adjust and align hardware to uniform clearance at vertical edge of doors, not exceeding 3/1 inch (5 mm).
- B. Adjust hinges to position doors in partial opening position when unlatched. Return out-swinging doors to closed position.
- C. Adjust adjacent components for consistency of line or plane.

#### SECTION 102 00 TOILET BAT AND LAUNDRY ACCESSORIES

#### PART 1 GENERAL

#### 1.01 SECTION INCLUDES

A. Commercial toilet accessories.

#### 1.02 RELATED REQUIREMENTS

A. Section 102113.19 - Plastic Toilet Compartments.

#### 1.03 REFERENCE STANDARDS

- A. ASTM A 53/A 53M Standard Specification for Steel Sheet, inc-Coated (Galvanized) or inc-Iron Alloy-Coated (Galvannealed) by the Hot-Dip Process; 2022.
- B. ASTM A Standard Specification for Annealed or Cold-Worked Austenitic Stainless Steel Sheet, Strip, Plate, and Flat Bar; 2015.
- C. ASTM B45 Standard Specification for Electrodeposited Coatings of Copper Plus Nickel Plus Chromium and Nickel Plus Chromium; 2017 (Reapproved 2022).
- D. ASTM C103 Standard Specification for Flat Glass; 2021.
- E. ASTM C1503 Standard Specification for Silvered Flat Glass Mirror; 2024.
- F. ICC A117.1 Accessible and Usable Buildings and Facilities; 2017.

#### 1.04 ADMINISTRATI E REQUIREMENTS

A. Coordinate the work with the placement of internal wall reinforcement, concealed ceiling supports, and reinforcement of toilet partitions to receive anchor attachments.

#### 1.05 SUBMITTALS

- A. See Section 013000 Administrative Requirements, for submittal procedures.
- B. Product Data: Submit data on accessories describing size, finish, details of function, and attachment methods.
- C. Manufacturer's Installation Instructions: Indicate special procedures and conditions requiring special attention.

#### PART 2 PRODUCTS

#### 2.01 MANUFACTURERS

A. Commercial Toilet Accessories:

#### 2.02 MATERIALS FABRICATION

- A. Accessories General: Shop assembled, free of dents and scratches and packaged complete with anchors and fittings, steel anchor plates, adapters, and anchor components for installation. Stamped names or labels on exposed faces of toilet accessory units are not permitted.
- B. Where lock are required for a particular type of toilet accessory, provide keying throughout teh project. Furnish two keys for each lock.
- C. Surface-Mounted Toilet Accessories, General: Fabricate units with tight seams and joints, exposed edges rolled. Hang doors or access panels with continuous stainless steel piano hinge. Provide concealed anhorage.
- D. Recessed Toilet Accessories, General: Fabricate units of akk welded construction, without mitered corners. Hange doors of access panels with full-lenght stainless steel piano hinge. Provide anchorage which is fully concealed when unit is closed.
- E. Stainless Steel Sheet: AISA Type 302/304, with polished No. 4 finish, 22 gauge minimun, unless noted otherwise.
- F. Galvanized Sheet Steel: Hot-dipped galvanized steel sheet, ASTM A 53, with G 0 coating.
- G. Mirror Glass: Annealed float glass, ASTM C103 Type I, Class 1, uality 2, with silvering, protective and physical characteristics complying with ASTM C1503.

#### 2.03 FINIS ES

A. Chrome/Nickel Plating: ASTM B45 , SC 2, polished finish, unless otherwise noted.

#### 2.04 COMMERCIAL TOILET ACCESSORIES

- A. Mirrors: Stainless steel framed, 1/4 inch (mm) thick annealed float glass; ASTM C103.
  - 1. Products:
    - a. Bobrick: See Drawings for product number, finish and size.
    - b. Or approved equal
- B. Grab Bars: Stainless steel, smooth surface.
  - 1. Standard Duty Grab Bars:
    - a. Push/Pull Point Load: 250 pound-force (1112 N), minimum.
    - b. Dimensions: 1-1/4 inch (32 mm) outside diameter, minimum 0.05 inch (1.3 mm) wall thickness, exposed flange mounting, 1-1/2 inch (38 mm) clearance between wall and inside of grab bar.
    - c. Finish: See drawings
    - d. Length and Configuration: As indicated on drawings.
    - e. Products:
      - 1) Bobrick: See drawings for model.
      - 2) Or approved equal.
- C. Coat Hook and Bumper
  - 1. Products:
    - a. Scranton Products: See drawings for model and finish.
    - b. Or approved equal..
- D. Sanitary Napkin Disposal:
  - 1. Products:
    - a. Bobrick: See drawings for model and finish.
    - b. Or approved equal.

#### PART 3 EXECUTION

#### 3.01 EXAMINATION

- A. Verify existing conditions before starting work.
- B. Verify exact location of accessories for installation.
- C. Provided blocking in walls.

#### 3.02 PREPARATION

- A. Deliver inserts and rough-in frames to site for timely installation.
- B. Provide templates and rough-in measurements as required.

#### 3.03 INSTALLATION

- A. Install accessories in accordance with manufacturers' instructions in locations indicated on drawings.
- B. Install plumb and level, securely and rigidly anchored to substrate.
- C. Mounting Heights: As required by accessibility regulations, unless otherwise indicated.
  - 1. Grab Bars: As indicated on drawings.
  - 2. Other Accessories: As indicated on drawings.

#### 3.04 PROTECTION

A. Protect installed accessories from damage due to subsequent construction operations.

#### SECTION 104400 FIRE PROTECTION SPECIALTIES

#### PART 1 GENERAL

#### **1.01 SECTION INCLUDES**

- A. Fire extinguishers.
- B. Fire extinguisher cabinets.

#### 1.02 REFERENCE STANDARDS

A. NFPA 10 - Standard for Portable Fire Extinguishers; 2022.

#### 1.03 SUBMITTALS

- A. See Section 013000 Administrative Requirements, for submittal procedures.
- B. Product Data: Provide extinguisher operational features.

#### 1.04 FIELD CONDITIONS

A. Do not install extinguishers when ambient temperature may cause freezing of extinguisher ingredients.

#### PART 2 PRODUCTS

#### 2.01 MANUFACTURERS

- A. Fire Extinguishers:
  - 1. Basis of Design: Activar Construction Products Group, Inc. JL Industries. As indicated on drawings.
  - 2. Or approved equal from one of the following:
    - a. Larsen's Manufacturing Company
    - b. idde, a unit of United Technologies Corp.
    - c. Potter
- B. Fire Extinguisher Cabinets and Accessories:
  - 1. Basis of Design: Activar Construction Products Group, Inc. JL Industries. As indicated on drawings.
  - 2. Or approved equal from one of the following:
    - a. Larsen's Manufacturing Company
    - b. idde, a unit of United Technologies Corp.
    - c. Potter-Roemer: Div. of Smith Industries, Inc.

#### 2.02 FIRE EXTINGUIS ERS

- A. Fire Extinguishers General: Comply with product requirements of NFPA 10 and applicable codes, whichever is more stringent.
- B. Multipurpose Dry Chemical Type Fire Extinguishers: Carbon steel tank, with pressure gauge.
  - 1. Class: A:B:C type.
  - 2. Size: 10 pound (4.54 kg).
  - 3. Finish: Baked polyester powder coat, red color.
  - 4. Temperature range: Minus 40 degrees F (Minus 40 degrees C) to 120 degrees F (49 degrees C).

#### 2.03 FIRE EXTINGUIS ER CABINETS

- A. Cabinet Configuration: Semi-recessed type.1. Trimless type.
- B. Door Glazing: Float glass, clear, 1/8 inch (3 mm) thick, and set in resilient channel glazing gasket.
- C. Finish of Cabinet Exterior Trim and Door: No.4 Brushed stainless steel.

#### PART 3 EXECUTION

#### 3.01 EXAMINATION

A. Verify rough openings for cabinet are correctly sized and located.

#### 3.02 INSTALLATION

A. Install in accordance with manufacturer's instructions.

#### SECTION 122400 INDO S ADES

#### PART 1 GENERAL

#### 1.01 SECTION INCLUDES

A. Interior manual roller shades.

#### 1.02 REFERENCE STANDARDS

A. WCMA A100.1 - Standard for Safety of Window Covering Products; 2022.

#### 1.03 SUBMITTALS

- A. See Section 013000 Administrative Requirements, for submittal procedures.
- B. Product Data: Provide manufacturer's standard catalog pages and data sheets, including materials, finishes, fabrication details, dimensions, profiles, mounting requirements, and accessories.
- C. Shop Drawings: Include shade schedule indicating size, location and keys to details, head, jamb and sill details, mounting dimension requirements for each product and condition, and operation direction.

#### PART 2 PRODUCTS

#### 2.01 MANUFACTURERS

- A. Interior Manually Operated Roller Shades:
  - 1. Draper, Inc; Clutch Operated FlexShade: As indicated on drawing.
  - 2. Substitutions: See Section 01 000 Product Requirements.

#### 2.02 ROLLER S ADES

- A. General:
  - 1. Provide shade system components that are easy to remove or adjust without removal of mounted shade brackets.
  - 2. Provide shade system that operates smoothly when shades are raised or lowered.
- B. Roller Shades:
  - 1. Description Interior Roller Shades: Single roller, manually operated fabric window shade system complete with mounting brackets, roller tubes, hembars, hardware, and accessories.
    - a. Roll Direction: Roll down, closed position is at window sill.
    - b. Mounting: Ceiling mounted.
    - c. Size: As indicated on drawings. Field measure prior to fabrication.
    - d. Fabric: As indicated on drawings.
  - 2. Brackets and Mounting Hardware: As recommended by manufacturer for mounting indicated and to accommodate shade fabric roll-up size and weight.
  - 3. Roller Tubes: As required for type of shade operation.
  - 4. Hembars: Designed to maintain bottom of shade straight and flat.
  - 5. Manual Operation for Interior Shades:
    - a. Clutch Operator: Manufacturer's standard material and design, permanently lubricated.
    - b. Drive Chain: Continuous loop, beaded ball chain with restraining device, 95 lb (43 kg) minimum breaking strength; comply with WCMA A100.1. Provide upper and lower limit stops.

#### 2.03 S ADE FABRIC

A. Fabric: Nonflammable, color-fast, impervious to heat and moisture, and able to retain its shape under normal operation. Type as indication on drawings.

#### PART 3 EXECUTION

#### 3.01 EXAMINATION

- A. Examine finished openings for deficiencies that may preclude satisfactory installation.
- B. Start of installation shall be considered acceptance of substrates.

#### 3.02 INSTALLATION

- A. Install in accordance with manufacturer's instructions and approved shop drawings, using mounting devices as indicated.
- B. Adjust level, projection, and shade centering from mounting bracket. Verify there is no telescoping of shade fabric. Ensure smooth shade operation.

#### 3.03 PROTECTION

A. Protect installed products from subsequent construction operations.

#### SECTION 124 13 ENTRANCE FLOOR MATS AND FRAMES

#### PART 1 GENERAL

#### **1.01 SECTION INCLUDES**

A. Carpet mat.

#### 1.02 SUBMITTALS

- A. See Section 013000 Administrative Requirements, for submittal procedures.
- B. Product Data: Provide data indicating properties of walk-off surface, component dimensions and recessed frame characteristics.
- C. Shop Drawings: Indicate dimensions.
- D. Samples: Submit two sample in size illustrating pattern, color, finish, and edging.
- E. Maintenance Data: Include cleaning instructions, and stain removal procedures.

#### PART 2 PRODUCTS

#### 2.01 MANUFACTURERS

- A. Floor Mats:
  - 1. Basic of Design: Mannington, Ruffian II, 24 x24 , color and installation as indicated on drawing.
  - 2. Substitutions: See Section 01 000 Product Requirements.

#### PART 3 EXECUTION

#### 3.01 INSTALLATION

A. Install walk-off mat per manufacture's instructions.

		ABBREV	IATIONS			GENERAL NOTES
	NOTE: ABE ABBREVIA	BREVIATIONS ARE GENERAL AND MAY NO TIONS IN DRAWINGS MAY OR MAY NOT US	T BE APPLIC SE PERIODS	ABLE TO THIS PROJECT.	1. ALL WORK CONDITION	UNDER THIS CONTRACT SHALL BE GOVERNED BY AIA DOCUMENT A201, GEN S OF THE CONTRACT, LATEST EDITION. IF ANY CONFLICTS BETWEEN THESI
	(M) (N)	MODIFIED NEW CONSTRUCTION	KIT KO	KITCHEN KNOCKOUT	DRAWINGS SHALL APP	AND DOCUMENT A201 ARISE, THE MORE STRINGENT OF THE TWO REQUIRE LY.
	(E) (S)	EXISTING CONSTRUCTION SURPLUS	LAM	LAMINATE	WORK. EVE	TOF THE CONTRACT DOCUMENTS IS TO ALLOW FOR THE PERFORMANCE OF RY ITEM NECESSARILY REQUIRED MAY NOT BE SPECIFICALLY MENTIONED ( THERWISE INDICATED IN THE CONSTRUCTION DOCUMENTS AS BEING NOT IN
2'  5	(R) @ ©	RELOCATED EQUIPMENT AT CENTERLINE	LAV LBS LF	LAVATORY POUNDS LINEAR FEET	CONTRACT APPROPRI/	(N.I.C., NIC) OR EXISTING, ALL SYSTEMS AND EQUIPMENT SHALL BE COMPLIATELY OPERABLE. FURNISH AND INSTALL ALL SPECIFIED AND APPROPRIATE
	ğ	DIAMETER OR ROUND	LP LSF	LOW POINT LINOLEUM SHEET FLOORING	COMPLETE 3. NO WORK I	AND FINISHED ASSEMBLY. DEFECTIVE IN WORKMANSHIP OR QUALITY OR DEFICIENT IN ANY REQUIREM
) 	AB ABV A/C	ANCHOR BOLT OR AIR BARRIER ABOVE AIR CONDITIONING	LIF	LINOLEUM TILE FLOORING	THE CONTR DISCOVERS	RACT DOCUMENTS WILL BE ACCEPTABLE, WHETHER OR NOT THE ARCHITEC S OR POINTS OUT DEFECTS OR DEFICIENCIES DURING CONSTRUCTION. DEF
	ACT ADA	ACOUSTICAL CEILING TILE AMERICANS WITH DISABILITIES ACT	MAX MECH	MAXIMUM MECHANICAL	WORK REV CONFORMI SHALL BE (	EALED WITHIN THE TIME REQUIRED BY WARRANTEES SHALL BE REPLACED NG WITH THE INTENT OF THE CONTRACT. NO PAYMENT, EITHER PARTIAL OF CONSTRUED AS AN ACCEPTANCE OF DEFECTIVE WORK OR IMPROPER MATE
		ABOVE FINISH FLOOR ABOVE FINISH GRADE	MFR MH MIN	MANUFACTURER MANHOLE MINIMUM	4. IT IS INTEN THESE NOT	DED THAT THE CONTRACTOR PROVIDE A COMPLETE JOB AND ANY OMISSIO TES OR IN THE OUTLINE OF WORK SHALL NOT BE CONSTRUED AS RELIEVING
-	APPROX ARCH	APPROXIMATE ARCHITECTURAL	MIR MISC	MIRROR MISCELLANEOUS	SPECIFICAL	OR OF SUCH RESPONSIBILITIES IMPLIED BY THE SCOPE OF WORK, EXCEPT LY NOTED. NY PORTION OF THE CONTRACT DOCUMENTS PROVE TO BE UNENFORCEAB
	AUTO AVE	AUTOMATIC AVENUE OR AVERAGE	MO MP	MASONRY OPENING METAL PANEL METAL POOE DECK	WHATEVER	REASON, SUCH UNENFORCEABILITY SHALL NOT EXTEND TO THE REMAIND NOR SHALL IT VOID ANY OTHER PROVISIONS OF THE CONTRACT.
5	BB BD	BULLETIN BOARD BOARD	MRD MTD MTL	METAL ROOF DECK MOUNTED METAL	6. THROUGHO	OUT THE DURATION OF THE PROJECT, THE CONTRACTOR SHALL REFRAIN FF HAT COULD LEAD TO THE FILING OF CLAIMS OF LIEN BY SUBCONTRACTORS, ALS LABOR SERVICE FOUNDMENT OF ANY OTHER INDIVIDUAL OF COMPANY
1.000	BLDG BLK	BUILDING BLOCK OR BLOCKING	MWK		ENTITLED U CAUSE CAN	INDER GOVERNING LAWS AND REGULATIONS UNLESS REASONABLE AND JUNES SHOWN. APPROVAL FOR PAYMENT SHALL BE CONTINGENT UPON THE
	BLVD BM BO	BOULEVARD BEAM BOTTOM OF	N NA NE	NORTH OR NEUTRAL NOT APPLICABLE NORTHEAST		OR'S OBTAINING AND FURNISHING TO THE OWNER SIGNED RELEASES FROM S OR COMPANIES.
	BOD	BASIS-OF-DESIGN OR BOTTOM OF DECK	NIC NO., #	NOT IN CONTRACT NUMBER	AND DIMEN BEFORE PF	SIONS FOR ACCURACY AND CONFIRMING THAT WORK IS BUILDABLE AS SHO COCEEDING WITH CONSTRUCTION. IF THERE ARE ANY QUESTIONS REGARDI
	BOF BOC BOT	BOTTOM OF FRAMING BASE OF CURB BOTTOM	NOM NR NSF	NOMINAL NOT REQUIRED NET SQUARE FEET	OR OTHER ARCHITECT	COORDINATION ISSUES, THE CONTRACTOR SHALL SUBMIT THEM, IN WRITIN AND IS RESPONSIBLE FOR OBTAINING A WRITTEN CLARIFICATION FROM TH
	BRG BTWN	BEARING BETWEEN	NTS NW	NOT TO SCALE NORTHWEST	8. IN THE EVE COSTLY AN	NT OF DISCREPANCIES BETWEEN ANY DRAWINGS AND/OR SPECIFICATIONS ID/OR MORE RESTRICTIVE CONDITION SHALL BE DEEMED THE CONTRACT
	CAB	CABINET	OC OD	ON CENTER OR OVER COUNTER OUTSIDE DIAMETER	9. EXECUTE V	ENT, UNLESS OTHERWISE STATED IN WRITING FROM THE OWNER. VORK IN ACCORDANCE WITH ANY AND ALL APPLICABLE LOCAL, STATE, AND
	CC CEM	CENTER TO CENTER CEMENT	O/H, OH OPG	OVERHEAD OPENING	INCLUDING SHALL SUP	BUT NOT LIMITED TO: NEC, NFPA, ASTM, ASHRAE, LATEST ADOPTED EDITIO ERCEDE DRAWINGS, NOTES AND DIMENSIONS IN ALL CASES. THE ARCHITEC
	CFM CFL	CUBIC FEET PER MINUTE COUNTER FLASHING OR COMPACT FLUORESCENT LAMP	OPH OPP OSA	OPPOSITE HAND OPPOSITE OUTSIDE AIR	NOTIFIED C WORK, AND	OF SUCH CHANGES BEFORE WORK IS STARTED. OBTAIN PERMITS BEFORE S O OBTAIN APPROVALS OF ALL REGULATORY AGENCIES UPON COMPLETION,
	CG CHT	CORNER GUARD CEILING HEIGHT	OSB OTB	ORIENTED STRAND BOARD OUT TO BID	10. THE GENER REQUIRED	RAL CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL PERMITS, INSPECTI TESTS AND UTILITY CONNECTIONS UNLESS OTHERWISE NOTED.
	CIP CJ	CAST IN PLACE CONTROL JOINT OR CONSTRUCTION JOINT	P PC		11. DO NOT SC AND ELEVA	ALE DRAWINGS; DIMENSIONS SHALL GOVERN. DETAILS SHALL GOVERN OVE TIONS. LARGE SCALE DETAILS SHALL GOVERN OVER SMALL SCALE DETAILS
	CL CLG	CENTERLINE CEILING	PEF PFT	POURED EPOXY FLOORING PORCELAIN FLOOR TILE	SPECIFICA 12. CLARIFY AL SPECIFICA	FIONS SHALL GOVERN OVER ALL. .L DISCREPANCIES AND QUESTIONS RELATIVE TO CONSTRUCTION DOCUME FIONS. AND FIELD CONDITIONS PRIOR TO SUBMITTING BIDS OR COMMENCIN
	CLR CMU CMP	CLEAR CONCRETE MASONRY UNIT CORRUGATED METAL PIPE	PH P/L, PL PI	PHASE AND PHARMACY PROPERTY LINE	BY SUBMIT RELATED T	TING THEIR BID, THE CONTRACTOR ATTESTS THAT THEY HAVE NO OPEN QU O THE CONSTRUCTION DOCUMENTS AND IS THEREFORE NOT ENTITLED TO
	CO	CONCRETE OPENING AND CLEAN- OUT	PLAM PLUMB	PLATE PLASTIC LAMINATE PLUMBING	COMPENSA 13. THERE SHA WHERE TH	ATION RELATED TO ANY ITEMS THEY DEEM TO BE UNCLEAR. ALL BE NO SUBSTITUTION OF MATERIAL WHERE A MANUFACTURER IS SPECI E TERM "OR FOULAL" IS USED. THE ARCHITECT ALONE SHALL DETERMINE FO
	COL CONC	COLUMN CONCRETE	PWD PNL	PLYWOOD PANEL PROPOSED	BASED UPC 14. THE CONTE	ON INFORMATION SUBMITTED BY THE CONTRACTOR. RACTOR SHALL BE RESPONSIBLE FOR THE DISTRIBUTION OF DRAWINGS TO
	CORR CPT	CORRIDOR CARPET	PSF PSI	POUNDS PER SQUARE FOOT POUNDS PER SQUARE INCH	TRADES UN 15. DO NOT PR	IDER THEIR JURISDICTION OR AUTHORITY. OCEED WITH ANY WORK REQUIRING ADDITIONAL COMPENSATION BEYOND AMOUNT WITHOUT WRITTEN AUTHORIZATION FROM THE OWNER, FAILURE
	CT CW	CERAMIC TILE CURTAIN WALL	PT PTD	PAINT OR PAINTED PAPER TOWEL DISPENSER OR	AUTHORIZA 16. ALL INSTAL	ATION SHALL INVALIDATE ANY CLAIM FOR EXTRA COMPENSATION. LED PLUMBING, MECHANICAL, AND ELECTRICAL EQUIPMENT SHALL OPERAT
	DBL		PTFR	PAINTED PRESSURE TREATED FIRE RESISTIVE	AND FREE 17. ALL MATER	OF VIBRATION. IALS SHALL BE NEW, UNUSED, AND OF THE HIGHEST QUALITY IN EVERY RES INFOMUSE NOTED - MANUEACTURED MATERIALS AND FOURDMENT SUAL DE
	DET/DTL DEPT	DETAIL DEPARTMENT	PVC PVMT	POLYVINYL CHLORIDE PAVEMENT	AS PER MA 18. THE CONTE	NUFACTURER'S RECOMMENDATIONS AND INSTRUCTIONS, U.O.N. RACTOR AND SUBCONTRACTORS SHALL PURCHASE AND MAINTAIN CERTIFIC
	DF DIA DIM	DRINKING FOUNTAIN DIAMETER DIMENSION	QSM QT	QUARTZ SURFACE MATERIAL QUARRY TILE	INSURANCI DAMAGE FO	E WITH RESPECT TO WORKERS COMPENSATION, PUBLIC LIABILITY AND PRO OR THE LIMITS AS REQUIRED BY LAW. THE CONTRACTOR SHALL BE RESPON
	DN DWG	DOWN DRAWING	QTR QTY	QUARTER QUANTITY	WORK. 19. COORDINA	TE ALL WORK WITH BUILDING OWNER SO AS NOT TO DISTURB OR CAUSE DA
	E FA	EAST	R RA	RADIUS RETURN AIR OR RELIEVING ANGLE	ANY EXISTI COMPLYING	NG AREAS IN THE BUILDING. AVOID CONFLICT WITH NORMAL BUILDING OPER G WITH THE BUILDING'S REGULATIONS REGARDING SCHEDULING AND USE C
	EB EIFS	EXPANSION BOLT EXTERIOR INSULATION FINISH	RD RE	ROAD, ROUND OR ROOF DRAIN REFERENCE, REFER TO	ELEVATOR 20. ANY WORK SHUT DOW	S AND LOADING FOR DELIVERIES, HANDLING OF MATERIALS, EQUIPMENT, AN INVOLVING ALTERATIONS TO EXISTING BUILDING UTILITIES AND REQUIRING N SHALL BE COORDINATED WITH THE OWNER AND SHALL REQUIRE A MINIM
	EJ EL ELEV	SYSTEM EXPANSION JOINT		REFRIGERATION OR REFRIGERATOR REINEORCEMENT	FIVE DAYS ALLOWING	NOTICE. THIS WORK SHALL BE COMPLETED AT THE CONVENIENCE OF THE C ENOUGH TIME TO COORDINATE SCHEDULED SHUT DOWNS WITH BUILDING
	ELEC EP	ELECTRIC OR ELECTRICAL ELECTRICAL PANELBOARD	REQ'D REQ	REQUIRED	OCCUPANT 21. VERIFY IN T AND ALL MI	'S. THE FIELD THAT NO CONFLICTS EXIST WHICH WOULD PROHIBIT THE LOCATIO ECHANICAL TELEPHONE DATA ELECTRICAL LIGHTING PLUMBING AND SPE
	EST EQ	ESTIMATE OR ESTIMATED EQUAL OR EQUIVALENT	REV RF	REVISION RUBBER FLOORING	EQUIPMEN	T (TO INCLUDE ALL REQUIRED PIPING, DUCTWORK AND CONDUIT) AND THAT CLEARANCES FOR INSTALLATION AND MAINTENANCE OF ABOVE EQUIPMEN
	EQUIP EW EWC	EACH WAY ELECTRIC WATER COOLER	ROW RM	RIGHT OF WAY ROOM	PROVIDED. 22. PROVIDE P	ROTECTION TO ALL EXISTING FINISHES IN ALL SPACES WITHIN OR ADJACEN
	EXH EXP	EXHAUST EXPANSION	RO RVS	ROUGH OPENING REVERSE (SIDE)	DAMAGE C	AUSED BY HIM OR HIS SUBCONTRACTORS, AT CONTRACTOR'S EXPENSE. RE STING ADJACENT FINISH, OR AS NOTED HEREIN.
	EXST	EXTERIOR	S SA	SOUTH SUPPLY AIR	23. CORRECT / SCOPE OF	ANY DEFECTS FOUND IN EXISTING BUILDING CONSTRUCTION WHICH AFFECT WORK. THIS INCLUDES BUT IS NOT LIMITED TO UNEVEN SURFACES AND FIN
	FA FD	FIRE ALARM FLOOR DRAIN	SAN SC	SANITARY SEWER SOLID CORE	ADJACENT 24. "TYPICAL" (	AND ADJOINING SURFACES. OR "TYP." MEANS IDENTICAL FOR ALL SIMILAR CONDITIONS U.O.N.
	FDN FDC FE	FOUNDATION FIRE DEPARTMENT CONNECTION FIRE EXTINGUISHER	SCD SCHED SD	SEAT COVER DISPENSER SCHEDULE SMOKE DETECTOR, SOAP	25. "SIMILAR" C DIMENSION	OR "SIM" MEANS COMPARABLE CHARACTERISTICS TO THE CONDITION NOTE IS AND ORIENTATION ON PLAN.
	FEC FFE	FIRE EXTINGUISHER CABINET FINISH FLOOR ELEVATION	SEAL	DISPENSER AND STORM DRAIN SEALANT	ARCHITEC1	R "VIF" MEANS TO ASCERTAIN FIELD CONDITIONS AND CONFIRM APPLICATIO  TRICT CONTROL OF JOB CLEANING AND PREVENT DUST AND DEBRIS FROM
	FFL FH FHC	FINISH FLOOR LEVEL FIRE HYDRANT FIRE HOSE CABINET	SECT/SEC SF SERM	SECTION SQUARE FOOT/FEET SPRAVED FIRE-RESISTIVE MATERIAL	FROM CON 28. THE CONTR	STRUCTION AREA. RACTOR SHALL NOT CLOSE OR OBSTRUCT ANY STREETS, ALLEYS OR WALK
	FIN FLR	FINISH (ED) FLOOR (ING)	SE SHR	SOUTHEAST SHOWER	MATERIAL REMOVED	SHALL BE PLACED OR STORED IN STREETS, ALLEYS OR WALKS. ALL DEBRIS COMPLETELY FROM THE PREMISES. OR SHALL THOROUGHLY EXAMINE THE PREMISES AND SHALL BASE HIS BID.
	F.O. F.O.C. F.O.F	FACE OF FACE OF CURB/CONCRETE	SHT SHTG SIM	SHEET SHEETING SIMILAR	EXISTING C THE CONTR	ONDITIONS, NOTWITHSTANDING ANY INFORMATION SHOWN OR NOT INDICA RACT DOCUMENTS.
	F.O.F. F.O.M. F.O.S.	FACE OF FINISH FACE OF MASONRY FACE OF STUDS	SK SL	SIMILAR SKETCH SLOPE	30. IT SHALL BI CONFLICTS	E THE RESPONSIBILITY OF THE CONTRACTOR TO NOTIFY THE ARCHITECT OF HEREIN PRIOR TO THE START OF NEW WORK ON THAT ITEM OR BEAR THE BUILTY OF CORRECTING SUCH WORK AS DIRECTED BY THE ARCHITECT
	F.O.T. FPWH	FACE OF TREAD FROST-PROOF WALL HYDRANT	SND SNR	SANITARY NAPKIN DISPENSER SANITARY NAPKIN RECEPTACLE	31. ALL DRAWI	NGS AND WRITTEN MATERIAL HEREIN CONSTITUTE THE ORIGINAL WORK OF , AND THE SAME MAY NOT BE DUPLICATED, USED, OR DISCLOSED WITHOUT
	FRF FRT, FRTW	FIRE-RETARDANT TREATED WOOD	SPEC SQ SS	SQUARE SANITARY SEWER, STAINLESS	WRITTEN C 32. THE ARCHI	ONSENT OF THE ARCHITECT. TECT HAS NO RESPONSIBILITY FOR AND SHALL NOT BE HELD LIABLE FOR AN OR OTHER HAZARDOUS MATERIALS ON THE JOB SITE, ASSESSOS OF OTHE
	FS, F FT	FIRE SERVICE FOOT OR FEET	SSM	STEEL SOLID SURFACE MATERIAL	HAZARDOU	IS MATERIALS PRESENT AT THE JOB SITE MUST BE MITIGATED IN COMPLIAN E LAWS, CODES AND REGULATIONS BY THE OWNER.
	FURR FWP	FURRING FABRIC WALL PANEL	SST SSWC ST	STAINLESS STEEL STAINLESS STEEL WALL CLADDING STREET	33. CONTRACT RESPONSIE	OR SHALL SUBMIT A DETAILED PROJECT SCHEDULE. CONTRACTOR IS SOLE BLE FOR CONSTRUCTION SEQUENCING, METHODS AND TECHNIQUES.
	G	GROUND AND NATURAL GAS	STA STD	STATION STANDARD	34. AS REQUIRED REQUIRED 35. THE CONTE	INSPECTION OF THAT PORTION OF WORK. RACTOR SHALL CONFIRM AND SUBMIT ALL LEAD TIMES AND PROCUREMENT
	GA. GAL GALV	GAUGE GALLON GALVANIZED	STL STRUC SUSP	STEEL STRUCTURAL SUSPENDED	FOR ALL MA	ATERIALS INCLUDED IN THE DRAWINGS AND SPECIFICATIONS OR NECESSAF ON OF THE WORK WITHIN TWO (2) WEEKS OF THE CONTRACT AWARD OR NO
	GB GC	GRAB BAR GENERAL CONTRACTOR	SW SYM	SOUTHWEST SYMETRICAL	36. THE CONTE MADE WEL	WHICHEVER IS EARLIER. RACTOR SHALL AWARD ALL SUBCONTRACTS AND ENSURE THAT ALL SUBMIT L IN ADVANCE OF THE LEAD TIMES NECESSARY TO OBTAIN ALL MATERIALS.
	GFI, GFCI	GROUND FAULT CIRCUIT INTERRUPTER GLASS FIBER REINFORCED CONCRETE	T TB	TREAD AND TRANSFORMER	CONTRACT OF EACH S	OR SHALL STRUCTURE THEIR SUBMITTAL SCHEDULE TO ALLOW FOR TWO F UBMITTAL, ALLOWING THE ARCHITECT TEN (10) BUSINESS DAYS FOR EACH F
	GFRG GI	GLASS FIBER REINFORCED GYPSUM GALVANIZED IRON (STEEL)	TC T&G	TOP OF CURB TONGUE & GROOVE	37. PRODUCT SUBCONTR	SUBSTITUTIONS WILL NOT BE ALLOWED DUE TO CONTRACTOR'S FAILURE TO ACTS, MAKE SUBMITTALS, OR ORDER MATERIALS IN A TIMELY MANNER. IN A FAILURE BY THE CONTRACTOR RESULTS IN A SCHEDULE DELAY. THE CO
	GLB GND	GLUE-LAM BEAM GROUND CROSS SOLVARE FEET	TD TELE TEMP	TOP OF DRAIN TELEPHONE TEMPERATURE	SHALL ACC COMPLETIC	ELERATE THE SCHEDULE AT THEIR OWN EXPENSE TO MAINTAIN THE SCHED DN DATE.
	GWB GWT	GYPSUM WALL BOARD GLASS WALL TILE	TG THK	TEMPERED GLASS THICK(NESS)	38. ALL NEW W	OOD BLOCKING TO BE FIRE TREATED.
	HB		THRES TO	THRESHOLD TOP OF TOP OF CURP/CONCRETE OR TABLE		
	HD HM	HIGH DENSITY HOLLOW METAL	TOD	OF CONTENTS TOP OF DECK		
	HORIZ HP	HORIZONTAL HIGH POINT AND HORSEPOWER	TOF TOM	TOP OF FRAMING TOP OF MASONRY	ALTERI	NATE #1:
	HR HT HVAC	HOUR HEIGHT HEATING VENTILATING AND AIR	TOP TOS TOW	TOP OF PAVEMENT/PARAPET TOP OF SLAB TOP OF WALL	• P	ROVIDE ADD ALTERNATE PRICE TO INSTALL FIRE BLOCKI
		CONDITIONING	TPD TS	TOILET PAPER DISPENSER TUBE STEEL AND TEMP SENSOR		REFERENCES: ELECTRICAL DRAWINGS; AUDIOVISUAI
	ID IE IG	INSIDE DIAMETER INVERT ELEVATION ISOLATED GROUND	UDL	I YPICAL	ALTERI	NATE #2:
	IGU IN	INSULATED GLAZING UNIT	UF UNO	UPHOLSTERY FABRIC UNLESS NOTED OTHERWISE	• P	ROVIDE ADD ALTERNATE PRICE TO REPLACE EXISTING CI
	INSUL INT INV	INSULATION INTERIOR AND INTERCOM INVERT	UR V			
	JAN	JANITOR	VB VENT	VAPOR BARRIER VENTILATION		NEI ENENGES. A 100 FLOOR PLAIN, AZUU ELEVATIONS;
	JC	JANITOR CLOSET		VERTICAL VESTIBULE VERIEV IN ELEI D	ALTERI	
			VCT VR	VINYL COMPOSITION TILE VENT RISER	a. E b. S	XISTING EXTERIOR CONCRETE SLAB TO BE REMOVED & IN ALVAGE DOOR IDENTIFICATION. REMOVE EXISTING DOOR
			VTR VWC	VENT THRU ROOF VINYL WALL COVERING	c. '# d. P	2' WITH SALVAGED BRICK REMOVED FROM EAST ELEVATI ROVIDE NEW EXTERIOR EGRESS DOOR, CONCRETE STAI
			W W/	WEST, WATTS AND WATER WITH	e. Il	IFILL EXISTING CLERESTORY WINDOW BEHIND NEW STAIL
			W/O WB	WITHOUT WALL BASE		REFERENCES: A200 ELEVATIONS: A303 DETAILS AND
			WC WD WGL	WATER CLOSET OR WALL COVERING WOOD WIRE GLASS		

WOM

WP

WR

WΤ

WV

WWF

WRB

WALK OFF MAT

WATER VALVE

WASTE RECEPTACLE

WINDOW TREATMENT

WELDED WIRE FABRIC

WATERPROOF OR WORK POINT

WEATHER-RESISTIVE BARRIER

ALTERNATE #4:

 $\langle A4 \rangle$ 

IN ROOMS G15 & G16.

4

### **GENERAL NOTES**

CONTRACT SHALL BE GOVERNED BY AIA DOCUMENT A201. GENERAL ONTRACT, LATEST EDITION. IF ANY CONFLICTS BETWEEN THESE MENT A201 ARISE, THE MORE STRINGENT OF THE TWO REQUIREMENTS

INTRACT DOCUMENTS IS TO ALLOW FOR THE PERFORMANCE OF THE CESSARILY REQUIRED MAY NOT BE SPECIFICALLY MENTIONED OR SHOWN. IDICATED IN THE CONSTRUCTION DOCUMENTS AS BEING NOT IN OR EXISTING, ALL SYSTEMS AND EQUIPMENT SHALL BE COMPLETED AND ABLE. FURNISH AND INSTALL ALL SPECIFIED AND APPROPRIATE ITEMS, AND SSORY, AND OTHER ITEMS NOT SPECIFIED BUT REQUIRED FOR A

N WORKMANSHIP OR QUALITY OR DEFICIENT IN ANY REQUIREMENTS OF MENTS WILL BE ACCEPTABLE, WHETHER OR NOT THE ARCHITECT SOUT DEFECTS OR DEFICIENCIES DURING CONSTRUCTION. DEFECTIVE IIN THE TIME REQUIRED BY WARRANTEES SHALL BE REPLACED BY WORK E INTENT OF THE CONTRACT. NO PAYMENT, EITHER PARTIAL OR FINAL, AS AN ACCEPTANCE OF DEFECTIVE WORK OR IMPROPER MATERIALS. HE CONTRACTOR PROVIDE A COMPLETE JOB AND ANY OMISSIONS IN HE OUTLINE OF WORK SHALL NOT BE CONSTRUED AS RELIEVING THE H RESPONSIBILITIES IMPLIED BY THE SCOPE OF WORK, EXCEPT FOR ITEMS

OF THE CONTRACT DOCUMENTS PROVE TO BE UNENFORCEABLE FOR UCH UNENFORCEABILITY SHALL NOT EXTEND TO THE REMAINDER OF THE . IT VOID ANY OTHER PROVISIONS OF THE CONTRACT. RATION OF THE PROJECT, THE CONTRACTOR SHALL REFRAIN FROM LEAD TO THE FILING OF CLAIMS OF LIEN BY SUBCONTRACTORS, SUPPLIERS , SERVICE, EQUIPMENT OR ANY OTHER INDIVIDUAL OR COMPANY SO ERNING LAWS AND REGULATIONS UNLESS REASONABLE AND JUSTIFIABLE

NING AND FURNISHING TO THE OWNER SIGNED RELEASES FROM SUCH RESPONSIBLE FOR CHECKING CONTRACT DOCUMENTS, FIELD CONDITIONS ACCURACY AND CONFIRMING THAT WORK IS BUILDABLE AS SHOWN WITH CONSTRUCTION. IF THERE ARE ANY QUESTIONS REGARDING THESE ION ISSUES, THE CONTRACTOR SHALL SUBMIT THEM, IN WRITING, TO THE SPONSIBLE FOR OBTAINING A WRITTEN CLARIFICATION FROM THE ROCEEDING WITH WORK IN QUESTION. OR RELATED WORK. REPANCIES BETWEEN ANY DRAWINGS AND/OR SPECIFICATIONS. THE MORE RESTRICTIVE CONDITION SHALL BE DEEMED THE CONTRACT S OTHERWISE STATED IN WRITING FROM THE OWNER.

CORDANCE WITH ANY AND ALL APPLICABLE LOCAL, STATE, AND FEDERAL ER'S RECOMMENDATIONS, TRADE AND REFERENCED STANDARDS MITED TO: NEC, NFPA, ASTM, ASHRAE, LATEST ADOPTED EDITIONS. THESE AWINGS. NOTES AND DIMENSIONS IN ALL CASES. THE ARCHITECT SHALL BE ANGES BEFORE WORK IS STARTED. OBTAIN PERMITS BEFORE STARTING PROVALS OF ALL REGULATORY AGENCIES UPON COMPLETION. AND AS CTOR IS RESPONSIBLE FOR OBTAINING ALL PERMITS, INSPECTIONS, UTILITY CONNECTIONS UNLESS OTHERWISE NOTED.

VGS; DIMENSIONS SHALL GOVERN. DETAILS SHALL GOVERN OVER PLANS GE SCALE DETAILS SHALL GOVERN OVER SMALL SCALE DETAILS. WRITTEN NCIES AND QUESTIONS RELATIVE TO CONSTRUCTION DOCUMENTS. FIELD CONDITIONS PRIOR TO SUBMITTING BIDS OR COMMENCING WORK. BID, THE CONTRACTOR ATTESTS THAT THEY HAVE NO OPEN QUESTIONS STRUCTION DOCUMENTS AND IS THEREFORE NOT ENTITLED TO ADDITIONAL ED TO ANY ITEMS THEY DEEM TO BE UNCLEAR.

JBSTITUTION OF MATERIAL WHERE A MANUFACTURER IS SPECIFIED. EQUAL" IS USED, THE ARCHITECT ALONE SHALL DETERMINE EQUALITY TION SUBMITTED BY THE CONTRACTOR. ALL BE RESPONSIBLE FOR THE DISTRIBUTION OF DRAWINGS TO ALL JURISDICTION OR AUTHORITY.

H ANY WORK REQUIRING ADDITIONAL COMPENSATION BEYOND THE ITHOUT WRITTEN AUTHORIZATION FROM THE OWNER. FAILURE TO OBTAIN INVALIDATE ANY CLAIM FOR EXTRA COMPENSATION. NG, MECHANICAL, AND ELECTRICAL EQUIPMENT SHALL OPERATE QUIETLY BE NEW, UNUSED, AND OF THE HIGHEST QUALITY IN EVERY RESPECT OTED. MANUFACTURED MATERIALS AND EQUIPMENT SHALL BE INSTALLED

R'S RECOMMENDATIONS AND INSTRUCTIONS, U.O.N. SUBCONTRACTORS SHALL PURCHASE AND MAINTAIN CERTIFICATIONS OF PECT TO WORKERS COMPENSATION, PUBLIC LIABILITY AND PROPERTY TS AS REQUIRED BY LAW. THE CONTRACTOR SHALL BE RESPONSIBLE FOR G, AND SUPERVISING ALL SAFETY PRECAUTIONS IN CONNECTION WITH THE K WITH BUILDING OWNER SO AS NOT TO DISTURB OR CAUSE DAMAGE TO I THE BUILDING. AVOID CONFLICT WITH NORMAL BUILDING OPERATIONS BY BUILDING'S REGULATIONS REGARDING SCHEDULING AND USE OF ING FOR DELIVERIES, HANDLING OF MATERIALS, EQUIPMENT, AND DEBRIS. ALTERATIONS TO EXISTING BUILDING UTILITIES AND REQUIRING UTILITY

COORDINATED WITH THE OWNER AND SHALL REQUIRE A MINIMUM OF (5) S WORK SHALL BE COMPLETED AT THE CONVENIENCE OF THE OWNER, ME TO COORDINATE SCHEDULED SHUT DOWNS WITH BUILDING HAT NO CONFLICTS EXIST WHICH WOULD PROHIBIT THE LOCATION OF ANY TELEPHONE, DATA, ELECTRICAL, LIGHTING, PLUMBING AND SPRINKLER DE ALL REQUIRED PIPING, DUCTWORK AND CONDUIT) AND THAT ALL ES FOR INSTALLATION AND MAINTENANCE OF ABOVE EQUIPMENT ARE TO ALL EXISTING FINISHES IN ALL SPACES WITHIN OR ADJACENT TO THE THE OWNER'S SPACE. THE CONTRACTOR SHALL PATCH AND REPAIR ANY IM OR HIS SUBCONTRACTORS, AT CONTRACTOR'S EXPENSE. REFINISH TO

CENT FINISH, OR AS NOTED HEREIN. S FOUND IN EXISTING BUILDING CONSTRUCTION WHICH AFFECT THE INCLUDES BUT IS NOT LIMITED TO UNEVEN SURFACES AND FINISHES AT MAGED FIREPROOFING. PATCH AND REPAIR SURFACES TO MATCH ANS IDENTICAL FOR ALL SIMILAR CONDITIONS U.O.N. ANS COMPARABLE CHARACTERISTICS TO THE CONDITION NOTED. VERIFY

NS TO ASCERTAIN FIELD CONDITIONS AND CONFIRM APPLICATION WITH ROL OF JOB CLEANING AND PREVENT DUST AND DEBRIS FROM MIGRATING ALL NOT CLOSE OR OBSTRUCT ANY STREETS, ALLEYS OR WALKS. NO ACED OR STORED IN STREETS, ALLEYS OR WALKS. ALL DEBRIS IS TO BE Y FROM THE PREMISES. HOROUGHLY EXAMINE THE PREMISES AND SHALL BASE HIS BID ON THE NOTWITHSTANDING ANY INFORMATION SHOWN OR NOT INDICATED ON ONSIBILITY OF THE CONTRACTOR TO NOTIFY THE ARCHITECT OF ANY IOR TO THE START OF NEW WORK ON THAT ITEM OR BEAR THE RRECTING SUCH WORK AS DIRECTED BY THE ARCHITECT. RITTEN MATERIAL HEREIN CONSTITUTE THE ORIGINAL WORK OF THE

SAME MAY NOT BE DUPLICATED, USED, OR DISCLOSED WITHOUT THE O RESPONSIBILITY FOR AND SHALL NOT BE HELD LIABLE FOR ANY HAZARDOUS MATERIALS ON THE JOB SITE. ASBESTOS OR OTHER S PRESENT AT THE JOB SITE MUST BE MITIGATED IN COMPLIANCE WITH DES AND REGULATIONS BY THE OWNER. UBMIT A DETAILED PROJECT SCHEDULE. CONTRACTOR IS SOLELY NSTRUCTION SEQUENCING, METHODS AND TECHNIQUES.

E, EACH CONTRACTOR AND EACH SUBCONTRACTOR SHALL OBTAIN OF THAT PORTION OF WORK. ALL CONFIRM AND SUBMIT ALL LEAD TIMES AND PROCUREMENT ISSUES CLUDED IN THE DRAWINGS AND SPECIFICATIONS OR NECESSARY FOR THE VORK WITHIN TWO (2) WEEKS OF THE CONTRACT AWARD OR NOTICE TO ALL AWARD ALL SUBCONTRACTS AND ENSURE THAT ALL SUBMITTALS ARE E OF THE LEAD TIMES NECESSARY TO OBTAIN ALL MATERIALS. THE TRUCTURE THEIR SUBMITTAL SCHEDULE TO ALLOW FOR TWO REVISIONS

LLOWING THE ARCHITECT TEN (10) BUSINESS DAYS FOR EACH REVIEW. ONS WILL NOT BE ALLOWED DUE TO CONTRACTOR'S FAILURE TO AWARD SUBMITTALS, OR ORDER MATERIALS IN A TIMELY MANNER. IN THE EVENT BY THE CONTRACTOR RESULTS IN A SCHEDULE DELAY, THE CONTRACTOR HE SCHEDULE AT THEIR OWN EXPENSE TO MAINTAIN THE SCHEDULED KING TO BE FIRE TREATED.

# **LOCATION PLAN**

# NORR LLC

CONTACT: TEL: 215.283.0229

2



GENERAL

F-501

E-502

S-501

ARCHITECTURAL

STRUCTURA

F100 ED101

F101

E200

E201

E301 E501

E600

M002

M003

MD100

M100

M101

M401

M402

M500

M501

M600

M601

M700

M701

M702

MECHANICAL

VT-101



- 3

New Jersey

Trovers-We	
	S100
	S101
	S102
	ELECTRICAL
BIDDING ALTERNATES	E001

ADD ALTERNATE PRICE TO INSTALL FIRE BLOCKING, BACKBOXES, & POWER FOR DIGITAL DISPLAYS AT LOCATIONS INDICATED. ERENCES: ELECTRICAL DRAWINGS; AUDIOVISUAL DRAWINGS

ADD ALTERNATE PRICE TO REPLACE EXISTING CLERESTORY WINDOWS WITH NEW WINDOWS AS SPECIFIED IN ROOMS G15,

ERENCES: A100 FLOOR PLAN, A200 ELEVATIONS; A300 ASSEMBLY TYPE GL1; A4/A300, A5/A300

EXTERIOR CONCRETE SLAB TO BE REMOVED & INFILLED W/ SOIL / PLANTINGS. PROVIDE NEW RETAINING WALLS INDICATED. DOOR IDENTIFICATION. REMOVE EXISTING DOORS AT STAIR 'C' AND INFILL OPENING FOR EXISTING EXTERIOR EGRESS DOOR ALVAGED BRICK REMOVED FROM EAST ELEVATION DEMOLITION TO MATCH EXISTING (D3/AD200) NEW EXTERIOR EGRESS DOOR, CONCRETE STAIR, & STEEL RAILINGS. STING CLERESTORY WINDOW BEHIND NEW STAIR WITH BRICK.

ERENCES: A200 ELEVATIONS; A303 DETAILS AND PLANS; CIVIL DRAWINGS; STRUCTURAL DRAWINGS; ELECTRICAL DRAWINGS

• PROVIDE ADD ALTERNATE PRICE TO INSTALL NEW WINDOW SILL AND DRYWALL FURRING (D30C) OVER EXISTING CMU WALLS INDICATED

REFERENCES: A100 FLOOR PLAN, A700 PARTITION TYPES, A3/A300

# **ROSCOE WEST HALL LOWER LEVEL RENOVATION 2000 PENNINGTON ROAD EWING, NJ 08628**

## **ADDENDUM B: SEPTEMBER 25, 2024**

## **PROJECT TEAM**

### ARCHITECT, STRUCTURAL **ENGINEER, MEP ENGINEER**

1617 JFK BLVD, SUITE 1600 PHILADELPHIA, PA 19103 SARAH GAUGHAN FAX: 215.525.4852 SARAH.GAUGHAN@NORR.COM LANDSCAPE ARCHITECTURE: LANGAN ENGINEERING AND ENVIRONMENTAL SERVICES, LLC. 1 UNIVERSITY SQUARE DRIVE, SUITE 110 PRINCETON, NJ 08540 CONTACT: CHRIS ROCHE EMAIL: CROCHE@LANGAN.COM

CIVIL ENGINEERING AND

AUDIO VISUAL / IT/ SECURITY:

**BALA CONSULTING ENGINEERS** 1285 DRUMMERS LANE SUITE 200, WAYNE, PA 19087 CONTACT: SPENCER H. GALLO, RCDD OFFICE: 610.649.8000 EMAIL: SHG@BALA.COM

## **INDEX OF DRAWINGS**

ISSUE HISTORY 2024.06.21: 100% CONSTRUCTION DOCUMENTS & PERMIT	2024.07.26: ISSUED FOR BID	2024.08.26: ADDENDUM A - ISSUE FOR CONSTRUCTION	2024.09.25: ADDENDUM B	PLUMBING	ISSUE HISTORY:	2024.06.21: 100% CONSTRUCTION DOCUMENTS & PERMIT	2024.07.26: ISSUED FOR BID	2024.08.26: ADDENDUM A - ISSUE FOR CONSTRUCTION	2024.09.25: ADDENDUM B	
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STRUCTURAL PLANS AND DETAILS     X       STRUCTURAL PLANS AND DETAILS     X	X	X								
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COVERSHEETXENERGY COMPLIANCE FORMSENERGY COMPLIANCE FORMSLOWER LEVEL DEMOLITION PLANXLOWER LEVEL NEW WORK PLANXEIRST ELOOP NEW WORK PLAN	X X X X	X X X X X								
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EINLARGED MECHANICAL ROUM PLAN     X       DETAILS     X	X X	X X V								
DETAILS     X       SCHEDULES     X       SCHEDULES     X	X X	X X								
SUFEDULES     X       CONTROLS     X       DIACRAMS     X	X X	X X								
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## FLOOR PLAN GENERAL NOTES

- DO NOT SCALE DRAWINGS. WRITTEN DIMENSIONS GOVERN. ALL PARTITION LOCATIONS SHALL BE AS SHOWN ON PARTITION PLAN; IN CASE OF CONFLICT NOTIFY ARCHITECT IMMEDIATELY. PARTITION PLAN BY ARCHITECT TAKES PRECEDENCE OVER ALL OTHER PLANS.
   DIMENSIONS NOTED "CLEAR" OR "CLR" OR "HOLD" MUST BE ACCURATELY MAINTAINED, SHALL
- ALLOW FOR THICKNESS OF ALL WALL FINISHES U.O.N., AND SHALL NOT VARY MORE THAN + 1/8" WITHOUT WRITTEN INSTRUCTION FROM ARCHITECT. 3. ALL PARTITIONS ARE DIMENSIONED FROM FINISH FACE OF GYPSUM BOARD TO FINISH FACE OF
- GYPSUM BOARD U.O.N. 4. ALL FLOOR SLAB PENETRATIONS FOR PIPING SHALL BE FULLY PACKED AND SEALED IN ACCORDANCE WITH THE APPLICABLE BUILDING AND FIRE CODES. ANY PENETRATIONS AT RATED
- PARTITIONS TO BE PER APPLICABLE UL ASSEMBLY.
  U.O.N., DOORS ARE CENTERED OR HINGE SIDE IS TO BE LOCATED 4" FROM CORNER AS INDICATED. DOORS MUST HAVE 1' -6" CLEAR ON STRIKE/PULL SIDE AND 12" CLEAR ON STRIKE/PUSH SIDE OF
- DOORS MUST HAVE 1'-6" CLEAR ON STRIKE/PULL SIDE AND 12" CLEAR ON STRIKE/PUSH SIDE OF DOOR. VERIFY AND ADVISE ARCHITECTS OF EXCEPTIONS PRIOR TO CLOSING OUT PARTITIONS. 6. ALL GYPSUM BOARD PARTITIONS SHALL BE TAPED AND SANDED SMOOTH WITH NO VISIBLE JOINTS. PATCH AND REPAIR SURFACES TO MATCH ADJACENT OR ADJOINING SURFACES WHERE REQUIRED.
- 7. REFER TO A000-SERIES SHEETS FOR ADDITIONAL NOTES, LEGENDS, SYMBOLS, ABBREVIATIONS, AND SCHEDULES.
- ALL MILLWORK & WALL-HUNG FURNITURE TO BE FASTENED TO THE PARTITION. PROVIDE BLOCKING FOR ALL MILLWORK & WALL-HUNG FURNITURE NOT SUPPORTED BY THE SLAB OR ABOVE 4'-0" HEIGHT. ALL CONCEALED WOOD BLOCKING TO BE FIRE TREATED, AS REQUIRED BY APPLICABLE CODES.
- AT ALL EXISTING EXPOSED CONCRETE COLUMNS, LAMINATE 1/2" GWB TO ALL EXPOSED SIDES, TO 6" ABOVE CEILING. PAINT TO MATCH AND ENSURE SURFACES ARE FLUSH W/ ADJACENT FINISHED PARTITIONS.

	FLOOR PLAN LEGEND
	EXISTING PARTITION TO REMAIN
	EXISTING DOOR TO REMAIN
	NEW PARTITION, SEE PARTITION TAGS AND TYPES
	NEW PARTITION TAG, SEE PARTITION TYPES
	NEW DOOR & DOOR TAG WITH DOOR NUMBER
	NEW TEMPORARY CONSTRUCTION PARTITION TO UNDERSIDE OF DECK WITH DOOR, TO BE ERECTED DURING DEMOLITION AND REMOVE UPON COMPLETION OF PROJECT. COORDINATE LOCKING REQUIREMENTS W/ FACILITIES.
FEC	FIRE EXTINGUISHER CABINET (SEMI-RECESSED). BOD: JL ACTIVAR COSMIC MULTI-PURPOSE (TYPE 'ABC') 10 LB FIRE EXTINGUISHER IN JL ACTIVAR CLEAR VU (MODEL #1516) ACRYLIC BUBBLE FRONT SEMI-RECESSED FIRE EXTINGUISHER CABINET (STAINLESS STEEL FINISH)
	NEW MILLWORK
	NOT IN SCOPE

	KEYED NOTES - FLOOR PLANS
TAG	DESCRIPTION
01	NEW ALUMINUM STOREFRONT SYSTEM / DOORS WITH GLASS TRANSOM. REFER TO SHEE A200 FOR ELEVATION.
02	EXISTING STOREFRONT AND SLIDING DOOR ASSEMBLY TO REMAIN.
03	NEW AUTOMATIC SLIDING DOOR ASSEMBLY.
04	INFILL AND FINISH PARTITION TO MATCH EXISTING CONSTRUCTION WHERE FIRE HOSE CABINETS HAVE BEEN REMOVED.
05	EXISTING RETAINING WALL & CONCRETE STAIR TO REMAIN. PATCH / REPAIR ANY DAMAG CONCRETE SURFACES OF STAIR.
06	NEW 36" H PAINTED STEEL HANDRAILS AT STAIRS & 42" H PAINTED STEEL GUARDRAIL EMBEDDED INTO EXISTING CONCRETE. REFERENCE DETAILS AND ELEVATIONS ON A302 ( A310
07	CENTER PARTITION ON MULLION. REFER TO DETAIL D1/A450.
08	PARTITION TO BE CENTERED ON COLUMN LINE.
09	INTERIOR AND EXTERIOR OF EXISTING WINDOWS AND FRAMES TO BE THROUGHLY CLEA
10	NEW 9/16 THICK LAMINATED GLASS DOUBLE SIDED MARKERBOARD (GL-2). REFER TO FINISCHEDULE.
11	PROVIDE IN-CAVITY FIRE RETARDANT TREATED WOOD BLOCKING AT ALL TV LOCATIONS.
12	NEW MECHANICAL EQUIPMENT CONCRETE HOUSEKEEPING PADS. COORDINATE LOCATIC SIZES & CONSTRUCTION OF PADS W/ CIVIL, STRUCTURAL & MECHANICAL DRAWINGS.
13	EXISTING CONCRETE SLAB TO REMAIN. POWER WASH EXISTING SLAB.
14	EXTERIOR WALL OPENING TO BE INFILLED WITH NEW MASONRY ASSEMBLY TO MATCH EXISTING ADJACENT. EXISTING BRICKS SALVAGED FROM DEMOLITION TO BE UTILIZED. N GROUT TO MATCH EXISTING, VIF
15	INFILL ABOVE DOORS WHERE TRANSOM HAS BEEN REMOVED TO ACHIEVE (1) HOUR RATI ASSEMBLY.
16	PROVIDE NEW ABUSE-RESISTANT GWB AT AREAS WHERE PANELING HAS BEEN REMOVED SECURE TO EXISTING FURRING.
17	NEW AREA OF CONCRETE FLOOR SLAB. COORDINATE LOCATION OF NEW SLAB WITH NEV PARTITIONS AND PLUMBING LOCATIONS. REFER TO STRUCTURAL DRAWINGS.
18	REPAIR MASONRY WALL WHERE ELECTRICAL CABLING HOLE IS DRILLED AND CONDUIT PENETRATION IS CREATED.
19	BREAK METAL END TRIM PAINTED TO MATCH DRYWALL.
20	(N) ELECTRICAL FLOORBOX. SEE ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION
21	EXISTING IT EQUIPMENT TO REMAIN CONTINUOUSLY ACTIVE. PROTECT FROM DUST, DEB & DAMAGE DURING ALL DEMOLITION AND CONSTRUCTION ACTIVITIES.
22	COORDINATE TEMPORARY PARTITION WITH DEMOLITION PLANS AND NEW WORK PLANS.
23	FIRE CAULK (1-HR) FLOOR SLAB AT NEW FLOOR SLEEVE PENETRATION.
A1	INSTALL FIRE BLOCKING, BACKBOXES, & POWER FOR DIGITAL DISPLAYS AT LOCATIONS INDICATED SEE ELECTRICAL & AUDIO VISUAL DRAWINGS FOR MORE INFORMATION.
A2	REPLACE EXISTING CLERESTORY WINDOWS WITH NEW WINDOWS
A3	INFILL WALL AND DEMOISHED PATIO: DOOR OPEING TO BE INFILLED WITH SALVAGED BRI PROVIDE NEW RETAINING WALL. PROVIDE NEW PLANTINGS AT INFILLED PATIO. PRVIDE N EGRESS STAIRS, RAILINGS, DOORS, LIGHTING AND REUSED SIGNAGED. COORDINATE W/ CIVIL, ELECTRICAL AND STRUCTURAL DRAWINGS.
A4	INSTALL NEW WINDOW SILL AND DRYWALL FURRING (D30C) OVER EXISTING CMU WALLS

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## FLOOR PLAN GENERAL NOTES

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- U.O.N., DOORS ARE CENTERED OR HINGE SIDE IS TO BE LOCATED 4" FROM CORNER AS INDICATED. DOORS MUST HAVE 1' -6" CLEAR ON STRIKE/PULL SIDE AND 12" CLEAR ON STRIKE/PUSH SIDE OF DOOR. VERIFY AND ADVISE ARCHITECTS OF EXCEPTIONS PRIOR TO CLOSING OUT PARTITIONS. 6. ALL GYPSUM BOARD PARTITIONS SHALL BE TAPED AND SANDED SMOOTH WITH NO VISIBLE JOINTS.
- PATCH AND REPAIR SURFACES TO MATCH ADJACENT OR ADJOINING SURFACES WHERE REQUIRED. REFER TO A000-SERIES SHEETS FOR ADDITIONAL NOTES, LEGENDS, SYMBOLS, ABBREVIATIONS, AND SCHEDULES.
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- AT ALL EXISTING EXPOSED CONCRETE COLUMNS, LAMINATE 1/2" GWB TO ALL EXPOSED SIDES, TO 6" ABOVE CEILING. PAINT TO MATCH AND ENSURE SURFACES ARE FLUSH W/ ADJACENT FINISHED PARTITIONS.

	FLOOR PLAN LEGEND
	EXISTING PARTITION TO REMAIN
	EXISTING DOOR TO REMAIN
	NEW PARTITION, SEE PARTITION TAGS AND TYPES
	NEW PARTITION TAG, SEE PARTITION TYPES
	NEW DOOR & DOOR TAG WITH DOOR NUMBER
	NEW TEMPORARY CONSTRUCTION PARTITION TO UNDERSIDE OF DECK WITH DOOR, TO BE ERECTED DURING DEMOLITION AND REMOVE UPON COMPLETION OF PROJECT. COORDINATE LOCKING REQUIREMENTS W/ FACILITIES.
FEC	FIRE EXTINGUISHER CABINET (SEMI-RECESSED). BOD: JL ACTIVAR COSMIC MULTI-PURPOSE (TYPE 'ABC') 10 LB FIRE EXTINGUISHER IN JL ACTIVAR CLEAR VU (MODEL #1516) ACRYLIC BUBBLE FRONT SEMI-RECESSED FIRE EXTINGUISHER CABINET (STAINLESS STEEL FINISH)
	NEW MILLWORK
	NOT IN SCOPE
	KEYED NOTES - FLOOR PLANS
TAG	DESCRIPTION
01	NEW ALUMINUM STOREFRONT SYSTEM / DOORS WITH GLASS TRANSOM. REFER TO SHEE A200 FOR ELEVATION.
02	EXISTING STOREFRONT AND SLIDING DOOR ASSEMBLY TO REMAIN.
04	INFILL AND FINISH PARTITION TO MATCH EXISTING CONSTRUCTION WHERE FIRE HOSE CABINETS HAVE BEEN REMOVED.
05	EXISTING RETAINING WALL & CONCRETE STAIR TO REMAIN. PATCH / REPAIR ANY DAMAGE
06	NEW 36" H PAINTED STEEL HANDRAILS AT STAIRS & 42" H PAINTED STEEL GUARDRAIL EMBEDDED INTO EXISTING CONCRETE. REFERENCE DETAILS AND ELEVATIONS ON A302 & A310
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12	NEW MECHANICAL EQUIPMENT CONCRETE HOUSEKEEPING PADS. COORDINATE LOCATION SIZES & CONSTRUCTION OF PADS W/ CIVIL, STRUCTURAL & MECHANICAL DRAWINGS.
13	EXISTING CONCRETE SLAB TO REMAIN. POWER WASH EXISTING SLAB. EXTERIOR WALL OPENING TO BE INFILLED WITH NEW MASONRY ASSEMBLY TO MATCH EXISTING ADJACENT, EXISTING BRICKS SALVAGED FROM DEMOLITION TO BE UTILIZED. NE
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16	ASSEMBLY. PROVIDE NEW ABUSE-RESISTANT GWB AT AREAS WHERE PANELING HAS BEEN REMOVED
17	SECURE TO EXISTING FURRING. NEW AREA OF CONCRETE FLOOR SLAB. COORDINATE LOCATION OF NEW SLAB WITH NEW
18	PARTITIONS AND PLUMBING LOCATIONS. REFER TO STRUCTURAL DRAWINGS. REPAIR MASONRY WALL WHERE ELECTRICAL CABLING HOLE IS DRILLED AND CONDUIT
19	PENETRATION IS CREATED. BREAK METAL END TRIM PAINTED TO MATCH DRYWALL
20	(N) ELECTRICAL FLOORBOX. SEE ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.
21	EXISTING IT EQUIPMENT TO REMAIN CONTINUOUSLY ACTIVE. PROTECT FROM DUST, DEBR & DAMAGE DURING ALL DEMOLITION AND CONSTRUCTION ACTIVITIES.
22	COORDINATE TEMPORARY PARTITION WITH DEMOLITION PLANS AND NEW WORK PLANS.
A1	INSTALL FIRE BLOCKING, BACKBOXES, & POWER FOR DIGITAL DISPLAYS AT LOCATIONS
A2	INDICATED SEE ELECTRICAL & AUDIO VISUAL DRAWINGS FOR MORE INFORMATION.           REPLACE EXISTING CLERESTORY WINDOWS WITH NEW WINDOWS
A3	INFILL WALL AND DEMOISHED PATIO: DOOR OPEING TO BE INFILLED WITH SALVAGED BRIC PROVIDE NEW RETAINING WALL. PROVIDE NEW PLANTINGS AT INFILLED PATIO. PRVIDE NE EGRESS STAIRS, RAILINGS, DOORS, LIGHTING AND REUSED SIGNAGED. COORDINATE W/ CIVIL, ELECTRICAL AND STRUCTURAL DRAWINGS.
A4	INSTALL NEW WINDOW SILL AND DRYWALL FURRING (D30C) OVER EXISTING CMU WALLS











REFER TO DOOR SCHEDULE	REFER TO DOOR SCHEDULE	









	Catalog Number	Finish	Mfr			
GE	BB1279	626	HAGER			
	5BB1 4.5 X 4.5	652	IVE			
OCKSET	ND80R-EL (FAIL SAFE)	626	SCHLAGE			
W/INTEGRAL STOP	SC81A-DS-FC x TBWMS	689	FALCON			
	SR64	GRY	IVE			
Т	679-05HM	BLK	SCE			
Y	PS914 900-2RS	LGR	VON			
	BY SECURITY CONTRACTOR					

2. ENTRY BY VALID CREDENTIAL AT CARD READER WHICH SIGNALS LATCH OF EXIT DEVICE TO RETRACT AND ALLOW 4. EXIT DEVICE TOUCH PAD HAS RX SWITCH WHICH SIGNALS ACCESS CONTROL SYSTEM OF A VALID RELEASE.

Catalog Number 5BB1 4.5 X 4.5 652 IVE ML 2002 x NSA x MR w/ thumb turn on interior 626 CORBIN BES 626 LCN 4040XP TBWMS REG 689 WS406/407CCV 630 IVE S-Bk 188S-BK ZER Catalog Number Finish Mf 652 IVE 5BB1 4.5 X 4.5 ML 2054 x NSA x MR (F04) CORBIN 626 1C7 BES 626 FS17-26D 630 IVE GRY SR64 IVE Finish Catalog Number Mfr STANLEY CB168 ML2010 x NSA (F01) 626 CORBIN ROCKWOOD WS401/402 SERES 328A Jambs/428A Head ZER ZER 39A GRY SR64 IVE Finish Catalog Number Mfr CB168 STANLEY ML 2057 x NSA x MR (F07) CORBIN ROCKWOOD WS401/402 SERES 328A Jambs/428A Head ZER ZER 39A GRY SR64 IVF Finish Catalog Number 628 112HF ML2030 X NSA 626 4011 \_CN 8400 10" X 2" LDW B4E 630 8400 6" X 1" LDW B4E 630 WS401CCV 626 GRY SR64 Hardware Group No. 07 MULTI-USER TOILET ROOM Finish Catalog Number 628 112HD 8200 4" X 16" 630 8302 10" 4" X 16" 4011 689 LCN 8400 10" X 2" LDW B4E 630 IVE 8400 6" X 1" LDW B4E 630 IVF WS401CCV 626 GRY SR64 IVF Hardware Group No. 8 EXTERIOR W/ CARD READER & AUTO-OPERATOR Finish Catalog Number 112HD EPT 628 IVE TBD EPT10 VON KEYED REMOVABLE MULLION KR4954 VON VON RX-LC-EL-99-L-06 RX-LC-LD-99-L-06 VON 1000-114 X CAM AS REQ'D. FOR USE WITH C-R 626 MULLION 3000-200 4111 SCUSH LCN 4110-18 LCN 4110-30 LCN 4110-61 LCN 8400 10" X 1" LDW B4E IVE ZER 566A MSLA-10 679-05HM SCE VON PS914 900-2RS BY DOOR MANUFACTURER BY SECURITY CONTRACTOR

	DOOR SCHEDULE																	
						DOOR					FRAME				FIF	E RAT	ING	
ROOM NAME	DOOR NUM	TYPE	WIDTH	SIZE H HEIGHT	E THICKNESS	MATERIAL	FINISH	GLASS	TYPE	MATERIAL	FINISH	D HEAI	ETAIL D JAMB	HARDWARE SET	45	60	90	COMMENTS
FIRST FLOOR																		
VESTIBULE	101A	СМ	6' - 0"	7' - 0"	1 3/4"	AL	CHAMPAGNE	Yes	5	AL		H3	J3	09				
VESTIBULE	101B	СМ	6' - 0"	7' - 0"	1 3/4"	AL	CHAMPAGNE	Yes	5	AL	CHAMPAGNE	H3	J3	09				
VESTIBULE	101C	GP	3' - 2"	7' - 0"	1 3/4"	AL	ANODIZED CHAMPAGNE	Yes	5	AL	ANODIZED CHAMPAGNE							SINGLE SLIDE AUTOMATIC SLIDING DOOR. B.O.D: STANLEY
VESTIBULE	101D	СМ	6' - 0"	7' - 0"	1.3/4"	AI	ANODIZED	Yes	5	AI	ANODIZED	H3	.13	09				DURAGLIDE 2000
VEOTIDULE	1010	CM		7 0			ANODIZED	No.	F		ANODIZED			00				
VESTIBULE	101E	СМ	6' - 0"	7' - 0"	1 3/4"	AL	ANODIZED	Yes	5	AL	ANODIZED	H3	J3	09				
VESTIBULE	101F	EXISTING	3' - 4"	7' - 0"	1 3/4"	AL	EXISTING	Yes	EXISTING	AL	EXISTING							EXISTING SLIDING DOOR & ASSOCIATED STOREFRONT FRAM REMAIN. NEW CARD READER.
	1		·		•	•				·			1				ł	
CETL COLLAB	G01	FG2	6' - 0"	7' - 0"	1 3/4"	AL	CLEAR ANODIZED	Yes	4	AL	CLEAR ANODIZED	H2	J2	03A				MODIFY HARDWARE SET FOR DOUBLE DOOR.
OFFICE	G02	FG	3' - 0"	7' - 0"	1 3/4"	AL		Yes	3	AL	CLEAR ANODIZED	H2	J2	03				
OFFICE	G03 G04	FG	3' - 0"	7'-0"	1 3/4"	AL	CLEAR ANODIZED	Yes	3	AL	CLEAR ANODIZED	H2	J2	03				
OFFICE	G05	FG	3' - 0"	7' - 0"	1 3/4"	AL	CLEAR ANODIZED	Yes	3	AL	CLEAR ANODIZED	H2	J2	03				
OFFICE	G06	FG	3' - 0"	7' - 0"	1 3/4"	AL	CLEAR ANODIZED	Yes	3	AL	CLEAR ANODIZED	H2	J2	03				
OFFICE	G07	FG	3' - 0"	7' - 0"	1 3/4"	AL		Yes	3	AL		H2	J2	03				
LEARNING STUDIO	G08A G08B	FG	3' - 0"	7' - 0"	1 3/4"	AL	CLEAR ANODIZED	Yes	3	AL	CLEAR ANODIZED	H2	J2	02				
CORRIDOR	G09A	FG	3' - 0"	7' - 0"	1 3/4"	AL	CLEAR ANODIZED	Yes	3	AL	CLEAR ANODIZED	H2	J2	03				
CORRIDOR	G09B G10	FG FS	3' - 0" 3' - 0"	7' - 0" 7' - 0"	1 3/4"	AL WD	CLEAR ANODIZED PT-3	Yes No	3	AL HM	CLEAR ANODIZED PT-3	H2 H1	J2 J1	01				CARD READER. CARD READER, ACOUSTIC SEALS & AUTOMATIC DROP SWEE
STUDIO	G11	FS	3' - 0"	7' - 0"	1 3/4"	WD	PT-3	No	1	HM	PT-3	H1	J1	01				CARD READER. ACOUSTIC SEALS & AUTOMATIC DROP SWEE
STUDIO RECORDING	G12	FS	3' - 0"	7' - 0"	1 3/4"	WD	PT-3	No	1	HM	PT-3	H1	J1	01				CARD READER. ACOUSTIC SEALS & AUTOMATIC DROP SWEE
STUDIO CETL SEMINAR	G13A	FG	3' - 0"	7' - 0"	1.3/4"	AI	CLEAR ANODIZED	Yes	2	AI		H2	.12	02				
CETL SEMINAR	G13B	FG	3' - 0"	7' - 0"	1 3/4"	AL	CLEAR ANODIZED	Yes	2	AL	CLEAR ANODIZED	H2	J2	02				
STORAGE	G14	F	3' - 0"	7' - 0"	1 3/4"	HM	PT-3	No	1	HM	PT-3	H1	J1	05				
CLASSROOM	G15	FG	3' - 0"	7' - 0"	1 3/4"	AL	CLEAR ANODIZED	Yes	3	AL	CLEAR ANODIZED	H2	J2	02				
CLASSROOM	G15A G16	FZ FG	6' - 0" 3' - 0"	7' - 0"	1 3/4"		CI FAR ANODIZED	Yes	3		CLEAR ANODIZED	H1 H2	J1 J2	02				MODIFY HARDWARE SET FOR DOUBLE DOOR.
SUPPLY	G16A	F2	6' - 0"	7' - 0"	1 3/4"	HM	PT-3	No	1	HM	PT-3	H1	J1	05A				MODIFY HARDWARE SET FOR DOUBLE DOOR.
	G17	FG	3' - 0"	7' - 0"	1 3/4"	AL	CLEAR ANODIZED	Yes	3	AL	CLEAR ANODIZED	H2	J2	03				
CLASSROOM	G18A	FG	3' - 0"	7' - 0"	1 3/4"	AL	CLEAR ANODIZED	Yes	3	AL	CLEAR ANODIZED	H2	J2	02				
CLASSROOM	G18B	FG	3' - 0"	7' - 0"	1 3/4"	AL	CLEAR ANODIZED	Yes	3	AL	CLEAR ANODIZED	H2	J2	02				
CLASSROOM	G19A	FG	3' - 0"	7' - 0"	1 3/4"	AL	CLEAR ANODIZED	Yes	3	AL	CLEAR ANODIZED	H2	J2	02				
	G19B	FG	3' - 0"	7' - 0"	1 3/4"	AL	CLEAR ANODIZED	Yes	3	AL	CLEAR ANODIZED	H2	J2	02				
GROUP	G20	FG	3' - 0"	7'-0"	1 3/4	AL	CLEAR ANODIZED	Yes	3		CLEAR ANODIZED	H2	J2	02				
GROUP	G22	FG	3' - 0"	7' - 0"	1 3/4"	AL	CLEAR ANODIZED	Yes	3	AL	CLEAR ANODIZED	H2	J2	04				
GROUP	G23	FG	3' - 0"	7' - 0"	1 3/4"	AL	CLEAR ANODIZED	Yes	3	AL	CLEAR ANODIZED	H2	J2	04				
GROUP	G24	FG	3' - 0"	7' - 0"	1 3/4"	AL	CLEAR ANODIZED	Yes	3	AL	CLEAR ANODIZED	H2	J2	04				
CLASSROOM	G25A	FG	3' - 0"	7' - 0"	1 3/4"	AL	CLEAR ANODIZED	Yes	3	AL	CLEAR ANODIZED	HZ	J2	02				
LARGE CLASSROOM	G25B	FG	3' - 0"	7' - 0"	1 3/4"	AL	CLEAR ANODIZED	Yes	3	AL	CLEAR ANODIZED	H2	J2	02				
CLASSROOM	G26	FG	3' - 0"	7' - 0"	1 3/4"	AL	CLEAR ANODIZED	Yes	3	AL	CLEAR ANODIZED	H2	J2	02				
VESTIBULE	GC01A	СМ	6' - 0"	8' - 0"	1 3/4"	AL	CHAMPAGNE ANODIZED	Yes	5	AL	CHAMPAGNE ANODIZED	H3	J3	09				
VESTIBULE	GC01B	СМ	6' - 0"	8' - 0"	1 3/4"	AL		Yes	5	AL		H3	J3	08				CARD READER. AUTO-OPERATOR W PUSH PLATE (ONE EACH
VESTIBULE	GC02A	СМ	6' - 0"	8' - 0"	1 3/4"	AL	CHAMPAGNE	Yes	5	AL	CHAMPAGNE	H3	J3	09				
VESTIBULE	GC02B	СМ	6' - 0"	8' - 0"	1 3/4"	AL	CHAMPAGNE	Yes	5	AL	CHAMPAGNE	H3	J3	08				AUTO-OPERATOR W PUSH PLATE (ONE EACH SIDE).
E.P.	GE01	F2	6' - 0"	7' - 0"	1 3/4"	НМ	PT-3	No	1	HM	PT-3	H1	J1	05A				MODIFY HARDWARE SET FOR DOUBLE DOOR.
ELEV. MACH.	GEL1	F	3' - 0"	7' - 0"	1 3/4"	НМ	PT-3	No	1	HM	PT-3	H4	J4	05	•			INFILL OPENING ABOVE FRAME W/ CMU, MATCH EXIST.
MECHANICAL	GM01	F	3' - 0"	7' - 0"	1 3/4"	HM	PT-3	No	1	HM	PT-3	H4	J4	05	•			INFILL OPENING ABOVE FRAME W/ CMU, MATCH EXIST.
	GR01	F	3' - 0"	7' - 0"	1 3/4"	HM	PT-4	No	1	HM	PT-4	H1	J1	07				
J.C.	GR03	F	3' - 0"	7' - 0"	1 3/4"	НМ	PT-4	No	1	HM	PT-4	H1	J1	05				SURFACE CLOSER WITH INTEGRAL STOP AND HOLD-OPEN F
SINGLE T.R.	GR04	F	3' - 0"	7' - 0"	1 3/4"	HM	PT-4	No	1	HM	PT-4	H1	J1	06				
I.T.	GT01	F	3' - 0"	7' - 0"	1 3/4"	НМ	PT-4	No	1	НМ	PT-4	H1	J1	05				
	GS03	<b>F</b> 2	4' - 0"	7' - 0"	1 3/4"	HM	PT-7	No	1	HM	PT-7	H4	J4					A3
												(SIM)	(SIM)					
rond total, 52																		

Grand total: 53

1. DOOR OPEN DURING CLASSROOM HOURS, AND CLOSED AND LOCKED AFTER HOURS (CONTROLLED VIA TIMER). 2. ENTRY BY VALID CREDENTIAL AT CARD READER WHICH SIGNALS LATCH OF EXIT DEVICE TO RETRACT AND ALLOW

4. EXIT DEVICE TOUCH PAD HAS RX SWITCH WHICH SIGNALS ACCESS CONTROL SYSTEM OF A VALID RELEASE.

5. EXIT DEVICE IS FAIL-SECURE UPON LOSS OF POWER DOOR WILL REMAIN LOCKED. 6. AFTER HOURS - ACCESS BY VALID USE OF CARD READER OUTSIDE / AUTOMATIC OPERATOR WILL ONLY OPERATE IF...

EXTERIOR										
	Catalog Number	Finish	Mfr							
	112HD EPT	628	IVE							
VABLE MULLION	KR4954	689	VON							
/ARE	LD-99-L-06	626	VON							
/ARE	LD-99-L-06	626	VON							
INDER	1000-114 X CAM AS REQ'D. FOR USE WITH	626	C-R							
NDER	3000-200	626	C-R							
SER	4111 SCUSH	689	LCN							
ATE	4110-18	689	LCN							
OE SUPPORT	4110-30	689	LCN							
SPACER	4110-61	689	LCN							
	8400 10" X 1" LDW B4E	630	IVE							
	566A MSLA-10	AL	ZER							







FINISH SCHEDULE									
FINISH TAG	TITLE	MANUFACTURER	STYLE	SIZE	COLOR	COMMENTS			
CB-1 RB-1	COVE BASE THERMOPLASTIC RUBBER BASE	SCHLUTER MANNINGTON	DILEX-AHK TP	4"H	SATIN ALUMINUM 217 CHARCOAL	SANITARY COVE BASE AT TOILET ROOMS. STRAIGHT BASE AT CARPET, COVE BASE AT RESILIENT			
						FLOORING. 100' ROLL TYP.			
ACT-1	ACOUSTICAL CEILING GRID &	ARMSTRONG	DUNE 1777 BEVELED TEGULAR, 9/16"	2' X 4' (CLOUD)	WHITE	AT CLOUD CEILINGS, PROVIDE AXIOM® CLASSIC STRAIGHT			
ACT-2	ACOUSTICAL CEILING GRID & ARMSTRONG TILE (GENERAL)		SUPRAFINE GRID, WHITE DUNE 1773 SQUARE LAY-IN WITH 15/16" PRELUDE GRID, WHITE	2' X 4'	WHITE	PERIMETER TRIM. GRID AND TRIM FINISH: WHITE CEILING TILE AT ALL OFFICES AND CLASSROOMS.			
ACT-3	ACOUSTICAL CEILING GRID & TILE (TOILET ROOMS)	ARMSTRONG	GEORGIAN™ 764 HIGH WASHABILITY SQUARE LAY-IN (MEDIUM TEXTURE). WITH 15/16" PRELUDE GRID, WHITE	2' X 2'	WHITE	CEILING TILE AT ALL TOILET ROOMS AND JANITORS CLOSETS.			
ACT-4	WOOD LOOK CEILING	ARMSTRONG WOODWORKS	LYRA PB 8357PB TEGULAR, 9/16" BLACK GRID	2' X 4'	BROWN SUGAR WALNUT (WBS) GRID: BLACK (BK)	WOOD-LOOK CEILING TILE WITH BLACK GRID. INSTALL PER MANUFACTURER'S RECOMMENDATIONS. REFER TO RCP FOR SIZES AND LOCATIONS.			
ACT-5	FELT CEILING TILE (CETL SEMINAR)	3FORM	TETRIA CEILING TILES (3FORM SOLA FELT) TILE 01, 02, & 03. WITH 15/16" PRELUDE GRID, COLOR: TBD	2' X 2'	GUN METAL GRAY	3-DIMENSIONAL FELT CEILING TILE INSERT AT CETL SEMINAR ROOM. INSTALL PER MANUFACTURER'S RECOMMENDATIONS. REFER TO RCP FOR SIZE AND LOCATION.			
ACT-5A	FELT CEILING TILE (CETL SEMINAR)	3FORM	TETRIA CEILING TILES (3FORM SOLA FELT) TILE 00 (FLAT). WITH 15/16" PRELUDE GRID, COLOR: TBD	2' X 2'	GUN METAL GRAY	FLAT FELT CEILING TILE INSERT AT CETL SEMINAR ROOM PERIMETER. INSTALL PER MANUFACTURER'S RECOMMENDATIONS. REFER TO RCP FOR SIZE AND LOCATION.			
ECP-1 GWB-1	EXPOSED CEILING PAINT GYPSUM WALLBOARD	BENJAMIN MOORE -	DRYFALL FLAT FINISH	- -	BUTTERCUP 2154-30 SW 7007 CEILING BRIGHT	GENERAL CEILING PAINT			
SOF-1	WOOD LOOK ALUMINUM	KNOTWOOD	KEC 150 ALUMINUM CLADDING	6" WIDE PLANKS	WHITE, U.N.O. ROYAL OAK	LOWER LEVEL CANOPY SOFFIT AND VESTIBULE CEILING			
FLOORING									
CPT-1				18" X 36"	KNOWLEDGE 35006	INSTALLATION: ASHLAR			
LVT-1	LUXURY VINYL TILE	MANNINGTON	COLOR ANCHOR STRIDE	12 X 30 12" X 24", UNBEVELED EDGE	TRUFFLE C167	INSTALLATION: ASHLAR INSTALLATION: BRICK			
LVT-2	LUXURY VINYL TILE	MANNINGTON	ASPEKT LARGE PATTERN	VARIES, UNBEVELED EDGE	A. ABSTRACT STUCCO FLAX B. STONE TEMPUS SOOTHE C. ABSTRACT DIFFUSION CHAMBRAY	INSTALLATION: ASPEKT LARGE PATTERN			
LVT-3	LUXURY VINYL TILE	MANNINGTON	AMTICO- ABSTRACT	12" X 24", UNBEVELED EDGE	AROAUC39 STUCCO FLAX	REFER TO FLOOR PATTERN PLAN FOR LOCATIONS			
RST-1	RUBBER STAIR TREADS AND NOSINGS	MANNINGTON	VISUALLY IMPAIRED TREADS AND NOSINGS	VERIFY IN FIELD	PROFILE: LINEAR COLOR: CHARCOAL 217	RUBBER STAIR TREADS AND NOSINGS, INSTALL PER ALL MANUFACTURERS SPECIFICATIONS. INCLUDE 2" BLACK ABRASIVE STRIP AT EACH TREAD.			
RT-1	RUBBER TILE- STAIR TOWER	MANNINGTON		36.25" X 36.25"	CHARCOAL 217	RUBBER FLOOR TILES AT STAIR TOWERS/LANDINGS, INSTALL			
TF-1	TILE FLOORING	DALTILE	LINDEN POINT™ GLAZED PORCELAIN FLOOR, GLAZED	12" X 24"	LP-21 GRIGIO	ALL MANUFACTURERS SPECIFICATIONS. INSTALLATION: 1/3 OFFSET. MINIMAL GROUT JOINT (3/16") LATICRETE GROUT, COLOR TBD.			
WOM-1	WALK OFF MAT	MANNINGTON	RUFFIAN II	24" X 24"	EBONY EARTH 1506	WALK OFF MAT AT VESTIBULES. INSTALLATION: BRICK			
MILLWORK									
SS-1 SS-2	SOLID SURFACE	WILSONART	SOLID SURFACE COUNTERTOP 9175ML	2CM THK	SINKS: DESIGNER WHITE	EDGE PROFILE: EASED LAVATORY SINKS AT MULTI-USER TOILET ROOMS			
		EORMICA							
PL-2	PLASTIC LAMINATE	FORMICA	SEA SALT 9529-43	-	-	COUNTERTOPS, HORIZONTAL SURFACES			
PL-3 MISC.	PLASTIC LAMINATE	FORMICA	PLATINUM 902-58	-					
GL-1	TYPICAL GLAZING	MCGRORY GLASS OR EQ.	3/8" THICK CLEAR TEMPERED GLASS	-		TYP. FOR ALL WOOD DOORS & ALUMINUM/GLASS FRAMED			
GL-2	GLAZING	MCGRORY GLASS OR EQ.	9/16 THICK LAMINATED GLASS DOUBLE	-	WHITE	AT STUDENT LOUNGE.			
RS-1	MANUALLY OPERATED ROLLER SHADES	DRAPER	SIDED MARKERBOARD CLUTCH-OPERATED FLEX SHADE NEXD WITH E SCREEN	CUSTOM	FABRIC COLOR: CHARCOAL. FASCIA COLOR: WHITE	WINDOW TREATMENTS AT ALL LOWER LEVEL PERIMETER GLAZING. 1% FABRIC AT CLASSROOMS, 5% FABRIC AT OFFICES.			
TP-1	TOILET PARTITIONS	SCRANTON PRODUCTS		CUSTOM	CONCRETE (ORANGE PEEL FINISH)	REFER TO ENLARGED RESTROOM PLANS AND ELEVATIONS. PL SUPPORTS			
WALLS	1	T		L		1			
FRP-1	FRP PANELS	KOROGUARD	WALL PROTECTION SYSTEMS	-	VAPOR	UP TO 42" A.F.F. AT ALL JANITOR'S CLOSETS. PROVIDE AND INSTALL ALL COORDINATING TRIM PIECES.			
PT-1	GENERAL WALL PAINT	BENJAMIN MOORE	CLASSROOMS, HALLWAYS, STAIRS, AND HIGH TRAFFIC AREAS: SCUFFX (SEMI-GLOSS) ALL OTHER AREAS: EGGSHELL	-	SUPER WHITE OC-152	GENERAL PAINT THROUGHOUT.			
PT-2 PT-3	ACCENT WALL PAINT	SHERWIN WILLIAMS	WALLS: EGGSHELL DOORS/FRAMES <sup>:</sup> SEMI-GLOSS	-	CHRYSANTHEMUM SW6347 SILVER CHAIN 1472	ACCENT WALLS WHERE NOTED			
PT-4	ACCENT WALL PAINT	BENJAMIN MOORE	DOORS/FRAMES: SEMI-GLOSS. CLASSROOMS, HALLWAYS, STAIRS, AND HIGH TRAFFIC AREAS: SCUFFX (SEMI-GLOSS) ALL OTHER AREAS: EGGSHELL	-	VAN DEUSEN BLUE HC-156	ACCENT WALLS/OFFICES/DOORS AND FRAMES WHERE NOTED.			
PT-5	ACCENT WALL PAINT	BENJAMIN MOORE	CLASSROOMS, HALLWAYS, STAIRS, AND HIGH TRAFFIC AREAS: SCUFFX (SEMI-GLOSS) ALL OTHER AREAS: EGGSHELL	-	HEMLOCK BM 719	MEETING, CETL SEMINAR, CETL LEARNING STUDIO, CLASSROOMS, GROUP ROOMS WHERE NOTED.			
PT-6	ACCENT WALL PAINT	BENJAMIN MOORE	DOORS/FRAMES & ELEVATOR: SEMI-GLOSS. WALLS: EGGSHELL	-	BUTTERCUP 2154-30	ACCENT WALLS WHERE NOTED			
PT-7	EXTERIOR DOOR PAINT	BENJAMIN MOORE	DOORS/FRAMES: SEMI-GLOSS.	-	CROMWELL GRAY HC-103	EXISTING EXTERIOR HOLLOW METAL DOORS & FRAMES TO BE REPAINTED. PREPARE SURFACES AS REQUIRED BY MANUF.			
TB-1 TB-2	TACK BOARD TACK BOARD	FORBO FORBO	BULLETIN BOARD BULLETIN BOARD	-	FRESH PINEAPPLE 2212 CINNAMON BARK 2207	SEE ELEVATIONS FOR SIZE SEE ELEVATIONS FOR SIZE			
TB-3	CERAMIC COATED STEEL	FORBO	BULLETIN BOARD	- 4'-0" X LENGTH OF	DUCK EGG 2162				
MB-1	MARKER BOARD	POLYVISION	E3 SURFACE HIGH GLOSS	WALL U.N.O.		PROVIDE PLATINUM DROP-IN TRAY TRIM SYSTEM INSTALLATION: VERTICAL RUNNING BOND. PROVIDE SCHLUTER JOLLY AT FINISHED EDGE - DILEX-AHK AT BASE. PROVIDE EXTERNAL AND INTERNAL CORNERS, TRIM SHAPES AT OPENINGS, AND ALL OTHER TRIM AND SPECIAL SHAPES TO MATCH THE TILE SPECIFIED, AS REQUIRED BY FIELD CONDITIONS AND DRAWING DETAILS. CROUT COLOR: TRD			
<u>vv I-1</u>		DALTILE	COLORMATCH GLAZED CERAMIC	o X 18"	MATTE PEARL WHITE CU63	INSTALLATION: VERTICAL RUNNING BOND. PROVIDE SCHLUTER JOLLY AT FINISHED EDGE - DILEX-AHK AT BASE. PROVIDE EXTERNAL AND INTERNAL CORNERS, TRIM SHAPES AT OPENINGS, AND ALL OTHER TRIM AND SPECIAL SHAPES TO MATCH THE TILE SPECIFIED. AS REQUIRED BY FIELD			
WT-2	WALL TILE	DALTILE	COLORMATCH GLAZED CERAMIC	6" X 18"	MATTE STARLIGHT CU68	CONDITIONS AND DRAWING DETAILS. GROUT COLOR: TBD.			

TRANSITION STRIP SCHLUTER SCHIENE FINISH: SATIN ALUMINUM CARPET











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### GENERAL POWER NOTES

A. FOR ELECTRICAL SYMBOLS, ABBREVIATIONS, REFER TO DRAWING E001. B. CONTRACTOR SHALL PROVIDE COMPLETE AND ACCURATE CIRCUIT

DIRECTORIES FOR ALL NEW AND EXISTING PANELS AFTER NEW WORK IS COMPLETED. C. CONTRACTOR SHALL COORDINATE ALL TELECOMMUNICATION AND

AUDIO/VISUAL PATHWAY REQUIREMENTS WITH DIVISION 27 CONTRACTOR AND SPECIFICATIONS. SEE AUDIO/VISUAL AND TELECOMMUNICATION DARWINGS BY OTHERS FOR FURTHER INFORMATION; DEVICES SHOWN FOR COORDINATION ONLY.

D. PROVIDE A JUNCTION BOX AND PULL STRING FROM EACH CARD READER/ELECTRIC DOOR STRIKE TO SECURITY EQUIPMENT RACK IN IDF ROOM. PROVIDE FIRE ALARM CONTACT AT SECURITY EQUIPMENT RACK FOR CARD READERS/ELECTRIC DOOR TO RELEASE UPON GENERAL ALARM OF FIRE ALARM SYSTEM.

F. MAINTAIN THE CONTINUITY OF ALL EXISTING TO REMAIN OUTSIDE THE SCOPE OF WORK AREA.

G. ALL ELECTRICAL OUTLETS AND JUNCTION BOXES SHALL BE STAGGERED WITHIN THE WALL TO AVOID SOUND TRANSMISSION.

I. EXACT DEVICE LOCATIONS AND MOUNTING HEIGHTS SHALL BE DETERMINED BY FINAL FURNITURE PLANS, PROVIDED BY OWNER.

COORDINATE WITH FURNITURE PLANS PRIOR TO ROUGH-IN. K. EXISTING CABLING TO REMAIN THAT PASSES THROUGH NEW WALL PARTITIONS INSTALLED TO DECK SHALL BE INSTALLED THROUGH NEW RETROFIT SLEEVING ASSEMBLIES TO PENETRATE THE PARTITION. DISCONNECT, REROUTE, AND RECONNECT CABLING THROUGH RETROFIT SLEEVE. CABLING SHALL NOT BE EMBEDDED INTO DRYWALL. RETROFIT SLEEVING KIT SHALL BE STI SPEC SEAL READY SPLIT SLEEVE, 4".

L. COORDINATE ROUTING OF IT GROUNDING WIRING/CONDUIT WITH EXISTING AND NEW WORK DUCTS, CONDUITS, PIPING, AND OTHER UTILITIES AT CEILING LEVEL.



VESTIBULE INTO ACCESSIBLE CEILING. P 8 PROVIDE WIREMOLD EFB8S-OG FLOORBOX DEVICE WITH DUPLEX AND DAȚA OUTLETȘ. PROVIDE,(3) 1-1/2" CONDUȚIS STUBBED UP INTO CEILING SPACE FROM FLOORBOX. 2) FOR DATA/AV AND (1) FOR POWER. TYPICAL

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FOR ALL FLOORBOX DEVICES, UNLESS OTHERWISE NOTED.







3

GENERAL DEMOLITION NOTES

A. COORDINATE ALL WORK CONCERNING EXISTING EQUIPMENT AND SERVICES TO REMAIN DE-ENERGIZE CIRCUITS AND MAKE THEM SAFE AS REQUIRED. RECONNECT CIRCUITS THAT ARE TO REMAIN AND ARE DISRUPTED DURING DEMOLITION.

B. REMOVE EXPOSED OR ACCESSIBLE WIRING, TO EQUIPMENT OR OUTLETS TO BE REMOVED, UNLESS OTHERWISE INDICATED. LABEL AND TERMINATE WIRING TO REMAIN.

C. WHERE EXISTING OUTLETS ARE TO REMAIN AND ARE CUT OFF BY THE REMODELING THEY SHALL RE-CONNECTED TO CIRCUITS AS REQUIRED BY JOB CONDITIONS.

D. LEGALLY DISPOSE OF EQUIPMENT WHERE EXISTING EQUIPMENT IS INDICATED TO BE REMOVED. OFFER EQUIPMENT TO OWNER AND DISPOSE OF EQUIPMENT THE OWNER DOES NOT WISH TO RETAIN. PROVIDE DOCUMENTATION INDICATING LEGAL DISPOSAL OR RECYCLING OF MATERIALS REMOVED. RECYCLE FLUORESCENT AND HID LAMPS, PROVIDE DOCUMENTATION.

E. WIRING INDICATED TO BE REMOVED OR SERVING EQUIPMENT TO BE REMOVED SHALL BE REMOVED BACK TO THE SOURCE OR TO THE NEXT JUCNTION POINT IF THE WIRING SERVES OTHER OUTLETS THAT WILL REMAIN. CONDUIT OVER UNDISTURBED CEILINGS SHALL REMAIN AND BE LABELED ABANDONED ON EACH END WITH END POINTS INDICATED.

F. RECONNECT EXISTING CIRCUITRY WHICH ORIGINATES OR PASSES THROUGH THE RENOVATED AREAS BUT SERVES OTHER AREAS NOT BEING RENOVATED. EXTEND THESE CIRCUITS AS MAY BE NECESSARY TO THE EXISTING PANELBOARDS.

G. COORDINATE WORK CONCERNING EXISTING EQUIPMENT AND SERVICES IN THE BUILDING. COORDINATE REQUIRED POWER INTERRUPTIONS AND PERFORM AT TIME CONVENIENT TO OWNER. INCLUDE COSTS FOR REQUIRED PREMIUM TIME.

H. VERIFY THE INTEGRITY AND CONDITION OF THE EXISTING BRANCH CIRCUIT WIRING THAT IS TO BE RE-USED. REPLACE WIRING FOUND TO BE NON-FUNCTIONAL.

I. TELECOMMUNICATIONS DEMOLITION SCOPE SHALL BE PERFORMED BY DIVISION 27 CONTRACTOR. DEVICES SHOWN ON PLANS FOR COORDINATION AND REFERENCE ONLY.

J. DATA CABLING EXISTING TO REMAIN SHALL BE PROTECTED FROM DAMAGE DURING CONSTRUCTION. A SURVEY FOR EXISTING DAMAGE SHALL BE CONDUCTED PRIOR TO DEMOLITION; ANY DAMAGED DATA CABLING SHALL BE DOCUMENTED AND IMMEDIATELY REPORTED TO OWNER. CABLING DAMAGED IN THE COURSE OF DEMOLITION OR CONSTRUCTION ACTIVITIES SHALL BE REPLACED TO CURRENT STANDARDS BY OWNER, AT CONTRACTOR'S SOLE EXPENSE.

K. CABLING EXISTING TO REMAIN THAT PASSES THROUGH NEW WALL PARTITIONS INSTALLED TO DECK SHALL BE INSTALLED INTO NEW RETROFIT SLEEVING ASSEMBLIES TO PENETRATE THE PARTITION. CABLING SHALL NOT BE EMBEDDED INTO DRYWAL. RETROFIT SLEEVING KIT SHALL BE STI SEAL READY SPLIT SLEEVE, 4". CABLING DAMAGED IN THE COURSE OF DEMOLITION OR CONSTRUCTION ACTIVITIES SHALL BE REPLACED TO CURRENT STANDARDS BY OWNER, AT CONTRACTOR'S SOLE EXPENSE.

L. IT CABLINE EXISTING TO REMAIN SHALL BE PROTECTED FROM DAMAGE. A SURVEY FOR EXISTING DAMAGE SHALL BE COMPLETED BEFORE DEMOLITION COMMENCES AND DAMAGE FOUND SHALL BE DOCUMENTED AND IMMEDIATELY CALLED BOOM EXTEND REMOVE ALL DEVISION OF A DAMAGE FIND TO THE PROVIDE TO CURRENT AND READ TO REMAIN. CLEAN AND RELAMP EXISTING FIXTURE.

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5/2024 2-15-50

## GENERAL POWER NOTES

A. FOR ELECTRICAL SYMBOLS, ABBREVIATIONS, REFER TO DRAWING E001.
B. CONTRACTOR SHALL PROVIDE COMPLETE AND ACCURATE CIRCUIT DIRECTORIES FOR ALL NEW AND EXISTING PANELS AFTER NEW WORK IS COMPLETED.

C. CONTRACTOR SHALL COORDINATE ALL TELECOMMUNICATION AND AUDIO/VISUAL PATHWAY REQUIREMENTS WITH DIVISION 27 CONTRACTOR AND SPECIFICATIONS. SEE AUDIO/VISUAL AND TELECOMMUNICATION DARWINGS BY OTHERS FOR FURTHER INFORMATION; DEVICES SHOWN FOR COORDINATION ONLY.

D. PROVIDE A JUNCTION BOX AND PULL STRING FROM EACH CARD READER/ELECTRIC DOOR STRIKE TO SECURITY EQUIPMENT RACK IN IDF ROOM. PROVIDE FIRE ALARM CONTACT AT SECURITY EQUIPMENT RACK FOR CARD READERS/ELECTRIC DOOR TO RELEASE UPON GENERAL ALARM OF FIRE ALARM SYSTEM.

F. MAINTAIN THE CONTINUITY OF ALL EXISTING TO REMAIN OUTSIDE THE SCOPE OF WORK AREA.

G. ALL ELECTRICAL OUTLETS AND JUNCTION BOXES SHALL BE STAGGERED WITHIN THE WALL TO AVOID SOUND TRANSMISSION.

I. EXACT DEVICE LOCATIONS AND MOUNTING HEIGHTS SHALL BE DETERMINED BY FINAL FURNITURE PLANS, PROVIDED BY OWNER. COORDINATE WITH FURNITURE PLANS PRIOR TO ROUGH-IN.

K. EXISTING CABLING TO REMAIN THAT PASSES THROUGH NEW WALL PARTITIONS INSTALLED TO DECK SHALL BE INSTALLED THROUGH NEW RETROFIT SLEEVING ASSEMBLIES TO PENETRATE THE PARTITION. DISCONNECT, REROUTE, AND RECONNECT CABLING THROUGH RETROFIT SLEEVE. CABLING SHALL NOT BE EMBEDDED INTO DRYWALL. RETROFIT SLEEVING KIT SHALL BE STI SPEC SEAL READY SPLIT SLEEVE, 4".

L. COORDINATE ROUTING OF IT GROUNDING WIRING/CONDUIT WITH EXISTING AND NEW WORK DUCTS, CONDUITS, PIPING, AND OTHER UTILITIES AT CEILING LEVEL. ELECTRICAL KEYNOTES

 EXISTING CIRCUITING SHOWN FOR REFERENCE.
 PROVIDE IT GROUND BAR, FIELD COORDINATE EXACT LOCATION WITH OWNER. GROUND BAR SHALL BE SERIES-CONNECTED TO GROUND BAR IN LOWER LEVEL IT ROOM, SEE DWG E100. SEE DETAILS B3 AND C3 ON DWG E501 FOR MORE INFORMATION.

1











B3 TYPICAL BONDING INFRASTRUCTURE SCHEMATIC



## **FLOOR BOX CABLING DETAIL**

# WALL TELEPHONE CABLING DETAIL

2





THE INSTALLATION OF THE CABLE.

DEPTH.

CABLE MANAGEMENT.

BOX.

BOX.

DRAWINGS.

- DRAWINGS.
- 2. J-HOOKS PROVIDED AND INSTALLED BY OTHERS. SEE TELECOM
- DRAWINGS.
- 3. INSTALL CONDUIT WITHIN WALL. MINIMUM SIZE IS 1 1/2", REFER TO OUTLET TYPES FOR SIZING.
- WALL. 5. PROVIDE BEND TAKING CONDUIT FROM VERTICAL TO HORIZONTAL. - BEND RADIUS SHALL BE 6-TIMES THE CONDUIT'S INTERIOR DIAMETER FOR CONDUITS 2 INCHES AND SMALLER, AND 10-TIMES
- THE CONDUIT'S INTERIOR DIAMETER FOR CONDUITS 2 1/2 INCHES AND
- IARGER
- PROVIDE NON-METALLIC BUSHING. INSTALL BUSHING PRIOR TO

MANAGEMENT, AND MUD RING; RANDL INDUSTRIES OR APPROVED

- 4. CONDUIT TRENCHED IN SLAB, WITH TURN UP AND STUB UP INTO

6. 2-GANG (5-INCH) OUTLET BACKBOX WITH INTEGRAL CABLE

1

- OUTLET CONDUIT AND BACKBOX NOTES 1. CABLE TRAYS PROVIDED AND INSTALLED BY OTHERS. SEE TELECOM
- LUG CONNECTORS. 11. NOT USED. 12. BOND ALL METALLIC CONDUITS AND SLEEVES ENTERING THE TELECOMMUNICATIONS SPACE TO THE BONDING BUSBAR USING #6 AWG CONDUCTORS WITH DOUBLE-LUG CONNECTORS. 13. BOND ALL TYPICAL ITEMS OUTLINED IN KEYNOTES 7 - 12 TO THE BONDING BUSBAR.
- 8. BONDING OF ALL LADDER RACKS BY OTHERS. 9. BONDING OF ALL CABLE TRAYS BY OTHERS. 10. BOND THE AC ELECTRICAL GROUND (ACEG) IN EACH ELECTRICAL PANEL SERVING THE ROOM TO
- 6. BONDING BACKBONE CONNECTOR (BBC): INSTALL BBC BETWEEN ALL TELECOMMUNICATIONS ROOMS ON THE TOP FLOOR AND EVERY THREE (3) FLOORS BELOW. 7. BONDING OF ALL TELECOMMUNICATION RACKS, CABINETS, EQUIPMENT FRAMES, ETC BY OTHERS.
- ROOM. 5. BOND ALL BUSBARS (PBB AND SBB'S) TO TBB. USE DOUBLE-LUG CONNECTORS AT THE BUSBAR, AND EXOTHERMIC WELDS AT THE TBB. DO NOT DOUBLE-LOAD CONNECTIONS AT BUSBAR.
- 4. TELECOMMUNICATIONS BONDING BACKBONE (TBB). INSTALL TBB TO EACH TELECOMMUNICATIONS RISER (STACKED TELECOMMUNICATIONS ROOMS), OR TO ANY STAND-ALONE TELECOMMUNICATIONS
- SBB SHALL BE HARGER KIT# GBI14220TGBKT 3. TELECOMMUNICATIONS BONDING CONDUCTOR (TBC). INSTALL TBC BETWEEN THE PBB AND THE GROUNDING ELECTRODE AT THE BUILDING'S ELECTRICAL ENTRY FACILITY. TBC SHALL BE A #4/0 AWG CONDUCTOR INSTALLED IN A DIRECT PATH WITH THE SHORTEST LENGTH PRACTICAL; MAXIMUM LENTH IS 30 FEET.
- PBB SHALL BE HARGER KIT# GBI14420TMGBKT. 2. SECONDARY BONDING BUSBAR (SBB): 2 INCH x 20 INCH x 1/4 INCH (HEIGHT x LENGTH x THICK) WALL-MOUNTED RECTANGULAR COPPER BUSBAR, PREDRILLED FOR TWO-HOLE LUG CONNECTIONS AND LISTED FOR THE INTENDED USE. MOUNT BUSBAR WITH 4 INCH STANDOFFS TO PROVIDE CLEARANCE.
- BONDING INFRASTRUCTURE KEYNOTES 1. PRIMARY BONDING BUSBAR (PBB): 4 INCH x 20 INCH x 1/4 INCH (HEIGHT x LENGTH x THICK) WALL-MOUNTED RECTANGULAR COPPER BUSBAR, PREDRILLED FOR TWO-HOLE LUG CONNECTIONS AND LISTED FOR THE INTENDED USE. MOUNT BUSBAR WITH 4 INCH STANDOFFS TO PROVIDE CLEARANCE.



PROTECTED ENTRANCE TERMINALS

MIN #4/0 AWG BONDING

STEEL (BY DIVISION 26)

CONDUCTOR TO BUILDING

FROM SUPPORT

(BY DIVISION 26)

AT MINIMUM 2" FROM WALL.

ANTI-STATIC VCT FLOORING

EXOTHERMIC WELDED,

COMPRESSION TYPE

BRAZED, OR IRREVERSIBLE

CONNECTOR. (BY DIVISION 26)

 $\overbrace{}$ 

- 1/4" x 4"W x 20"L PRIMARY(PBB)/1/4" x 2"W x

- 20"L SECONDARY BUS BAR (SBB) INSULATED

TYPICAL TELECOMMUNICATIONS ROOM


	ABBREVIATI	ONS	GENERAL NOTES
(E) (ED) (ER) (N) ACT	EXISTING TO REMAIN EXISTING TO BE DEMOLISHED EXISTING TO BE RELOCATED NEW ACOUSTICAL CEILING THE	)	1. THE WORK TO BE DONE UNDER THESE SPECIFICATIONS AND THE DRAWINGS CONSISTS OF PROVIDING ALL EQUIPMENT, MATERIALS, LABOR AND SERVICES AND PERFORMING ALL OPERATIONS TO COMPLETE THE CONSTRUCTION WORK FOR THIS PROJECT. ANY WORK NOT SPECIFICALLY COVERED BY THESE SPECIFICATIONS OR INDICATED ON THE CONTRACT DRAWINGS, BUT NECESSARY TO COMPLETE OR PERFECT ANY PART OF THIS INSTALLATION IN A SUBSTANTIAL MANNER, SHALL BE PROVIDED WITHOUT EXTRA COST TO THE OWNER.
AFF AHJ AOR AV	ABOVE FINISHED FLOOR AUTHORITY HAVING JURISDIC AREA OF REFUGE: 2 WAY COM AUDIOVISUAL	TION MUNICATION	<ol> <li>THE WORK SHALL CONFORM TO THE MORE STRINGENT OF ALL APPLICABLE CODES &amp; REGULATIONS, UL AND FM GUIDELINES (AS APPLICABLE), MANUFACTURER'S LITERATURE AND RECOMMENDATIONS, BUILDING OPERATOR'S REQUIREMENTS, AND TO THE REQUIREMENTS OF FEDERAL, STATE AND LOCAL REGULATORY AGENCIES AND AUTHORITIES HAVING JURISDICTION. PROJECTS PURSING LEED, PASSIVE HOUSE, FITWEL OR OTHER SUSTAINBILITY CERTIFATIONS SHALL CONFORM TO ALL APPLICABLE REQUIREMENTS.</li> </ol>
BICIS® CAB CDT CM CMP	BUILDING INDUSTRY CONSUL INTERNATIONAL CABINET CONDUIT CONSTRUCTION MANAGER COMMUNICATIONS MULTIPUR	TING SERVICE	3. THE DRAWINGS ARE DIAGRAMMATIC IN NATURE AND INDICATE THE EXTENT, GENERAL CHARACTER, LOCATION AND ARRANGEMENT OF THE WORK UNDER THIS CONTRACT. [EXACT LOCATIONS OF ALL COMPONENTS ARE TO BE DETERMINED IN THE FIELD AND BY THE ACTUAL BUILDING CONDITIONS.] WHERE JOB CONDITIONS REQUIRE MINOR CHANGES OR ADJUSTMENTS IN THE INDICATED LOCATIONS OR ARRANGEMENT OF THE WORK, SUCH CHANGES SHALL BE PROVIDED WITHOUT EXTRA COST. THE CONTRACTOR SHALL RE-INSTALL EQUIPMENT THAT HAS INADEQUATE OR UNSAFE ACCESSIBILITY.
CMR CP DSP EC FLFC	COMMUNICATIONS MULTIPUR CENTRAL PATCHING LOCATIC DIGITAL SIGNAL PROCESSOR ELECTRICAL CONTRACTOR ELECTRICAL	ipose riser In	4. INSTALLATION OF WORK SHALL PROVIDE REASONABLE ACCESSIBILITY FOR OPERATION, INSPECTION AND MAINTENANCE OF EQUIPMENT AND ACCESSORIES. PROVIDE CLEARANCES REQUIRED BY MANUFACTURERS AND APPLICABLE CODES. ALL CEILING MOUNTED EQUIPMENT SHALL BE INSTALLED IN SUCH A MANNER THAT LIGHTS, PIPING, AND DUCTWORK DO NOT BLOCK ACCESS TO EQUIPMENT AND RELATED ACCESSORIES.
EMERG EMT FOV FT	EMERGENCY ELECTRICAL METALLIC TUBIN FIELD OF VIEW FEET	G	5. THE TERM "FURNISH" SHALL MEAN TO OBTAIN AND SUPPLY TO THE JOB SITE. THE TERM "INSTALL" SHALL MEAN TO FIX IN POSITION AND CONNECT FOR USE. THE TERM "PROVIDE" SHALL MEAN TO FURNISH AND INSTALL. THE TERM "MECHANICAL WORK", "ELECTRICAL WORK", "PLUMBING WORK", ETC. SHALL MEAN ALL LABOR, MATERIAL, EQUIPMENT, SCAFFOLDING, RIGGING, TOOLS, SUPERVISION, SERVICES AND OTHER INCIDENTALS NECESSARY FOR COMPLETE AND OPERABLE INSTALLATION.
g, gnd gc idf ieee Jb Lan Max	GROUND GENERAL CONTRACTOR INTERMEDIATE DISTRIBUTION INSTITUTE OF ELECTRICAL AN ENGINEERS JUNCTION BOX LOCAL AREA NETWORK MAXIMUM	I FRAME ND ELECTRONICS	6. THE CM/GC SHALL MAKE SETS OF THE BID DOCUMENTS CONSISTING OF COMPLETE SETS OF DRAWINGS AND SPECIFICATIONS; AND ISSUE THEM TO EACH OF THE PRIME AND SUB-CONTRACTORS. EVERY PRIME AND SUB- CONTRACTOR ON EACH BIDDING TEAM SHALL RECEIVE COMPLETE SETS OF DRAWINGS AND SPECIFICATIONS. THERE ARE NOTES AND CROSS REFERENCES FOR VARIOUS TRADE CONTRACTORS IN MULTIPLE TRADE OR DISCIPLINE DRAWINGS AND SPECIFICATIONS, THUS, EACH CONTRACTOR IS TO RECEIVE COMPLETE SETS OF THE BID DOCUMENTS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN THESE DRAWINGS FROM CM/GC. EACH CONTRACTOR IS RESPONSIBLE FOR THEIR WORK, AS NOTED ON THE OTHER DISCIPLINE DOCUMENTS. BIDDERS ARE RESPONSIBLE FOR ALL COSTS FOR EACH SET OF BID DOCUMENTS REQUESTED.
MDF MFG N/A NEXT NIC No. OR # NTS OFE	MAIN DISTRIBUTION FRAME MANUFACTURER NOT APPLICABLE NEAR END CROSS TALK NOT IN CONTRACT NUMBER NOT TO SCALE OWNER FURNISHED EQUIPME		7. CONTRACTOR IS RESPONSIBLE FOR PROVIDING A FULL COORDINATION EFFORT IN ORDER TO CREATE A FINALIZED COORDINATED LAYOUT OF ALL EQUIPMENT, SYSTEMS, DUCTWORK, PIPING AND ALL OTHER ITEMS WITHIN THEIR RESPECTIVE SCOPE. THE CONTRACTOR'S COORDINATION EFFORT SHALL INCLUDE COORDINATED INFORMATION FROM ALL OTHER TRADE CONTRACTOR'S INVOLVED IN THE PROJECT SCOPE IN ORDER TO PROVIDE COORDINATION BETWEEN TRADES AND ALL EXISTING CONDITIONS. ALL ERRORS MADE AS A RESULT OF A LACK OF COORDINATION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND CORRECTED AT NO ADDITIONAL COST TO THE PROJECT. MINOR RELOCATIONS AND SHIFTS OF EQUIPMENT, DUCTWORK, AND PIPING WHICH DO NOT CHANGE THE DESIGN INTENT INDICATED ON THE CONTRACT DOCUMENTS, REQUIRED TO ACCOMMODATE FIELD CONDITIONS ARE AT THE CONTRACTORS DISCRETION AND DO NOT REQUIRE ENGINEER APPROVAL.
OFNP OFNR OTDR POS PWR REC	OPTICAL FIBER NON CONDUC OPTICAL FIBER NON CONDUC OPTICAL TIME DOMAIN REFLE POINT OF SALES POWER RECESSED	TIVE PLENOM TIVE RISER CTOMETER	<ol> <li>CONTRACTOR SHALL ARRANGE AND OBTAIN ALL PERMITS, INSPECTIONS AND APPROVALS, AND PAY ALL RELATED FEES.</li> <li>THE DRAWINGS INDICATE APPROXIMATE LOCATIONS BASED UPON INFORMATION OBTAINED WITHOUT REMOVING CEILING TILES OR WALLS. THEREFORE, THE CONTRACTOR SHALL INCLUDE IN THEIR BID CONTINGENCY COSTS TO ADDRESS CONFLICTS BETWEEN DESIGN AND EXISTING CONDITIONS. ANY CHANGES AND/OR MODIFICATIONS MUST BE REVIEWED AND APPROVED BY THE ENGINEER AND/OR OWNER'S REPRESENTATIVE PRIOR TO CONSTRUCTION.</li> </ol>
RECEPT RM RU SAN	RECEPTACLE ROOM RACK UNIT (1.75in) STORAGE AREA NETWORK		10. FOR ANY DISCREPANCY BETWEEN DRAWINGS AND/OR SPECIFICATIONS, THE CONTRACTOR SHALL BASE THEIR BID UPON THE MOST STRINGENT REQUIREMENT (QUALITY, QUANTITY, SIZE, ETC.). THE CONTRACTOR SHALL IDENTIFY DISCREPANCIES AS PART OF THEIR BID.
TBB TC TEL TCB	TELECOMMUNICATIONS BONE TELECOMMUNICATIONS CONT TELEPHONE	DING BACKBONE IRACTOR	<ol> <li>PRIOR TO DEMOLITION, THE CONTRACTOR SHALL LOG ALL EXISTING EQUIPMENT AND TRACE ELECTRICAL, FIRE ALARM, AND CONTROL CIRCUITS THAT SERVE SUCH EQUIPMENT.</li> <li>ALL SERVICES TO EXISTING BUILDINGS SHALL BE MAINTAINED DURING CONSTRUCTION UNLESS OTHERWISE INDICATED</li> </ol>
TIA TMGB TYP	TELECOMMUNICATIONS GROUTELECOMMUNICATIONS MAIN TELECOMMUNICATIONS MAIN TYPICAL	STRY ASSOCIATION GROUNDING BUSBAR	<ul> <li>CONTRACTOR SHALL COORDINATE ALL SYSTEM SHUT DOWNS AND TIMING WITH OWNER.</li> <li>13. THE CONTRACTOR SHALL EFFECTIVELY PROTECT ALL MATERIALS AND EQUIPMENT FROM ENVIRONMENTAL AND PHYSICAL DAMAGE UNTIL FINAL ACCEPTANCE OF OSE AND PROTECT ALL OPENINGS DURING CONSTRUCTION PROVIDE</li> </ul>
UTP VoIP WAN	UNSHIELDED TWISTED PAIR VOICE OVER INTERNET PROT WIDE AREA NETWORK	OCOL	<ul> <li>NEW MATERIALS AND EQUIPMENT TO REPLACE ITEMS DAMAGED.</li> <li>14. EXISTING EQUIPMENT THAT INTERFERES WITH NEW ARRANGEMENT SHALL BE REMOVED, REINSTALLED, RELOCATED, REROUTED, EXTENDED OR ABANDONED AS REQUIRED. TO SUIT THE NEW ARRANGEMENT.</li> </ul>
WP	MISC. LEGEND	/ TAGS	15. WHERE BEAMS ARE INDICATED TO BE PENETRATED WITH DUCTWORK AND/OR PIPING, CAREFULLY COORDINATE SIZES AND LOCATIONS OF THE ELEMENTS BEFORE FABRICATION. COORDINATE WITH FINAL LOCATION OF BEAM PENETRATIONS AND SHEAR WALL PENETRATIONS.
<u>SYMBOL</u>	<u>-</u>	DESCRIPTION	16. CONTRACTOR SHALL COORDINATE LOCATION OF ALL WALL, FLOOR AND ROOF OPENINGS WITH STRUCTURAL AND OTHER TRADES.
XXXX	-	ELEVATION SYMBOL — ELEVATION NUMBER — DRAWING NUMBER	17. PROVIDE CUTTING AND PATCHING AS REQUIRED AND WHERE NECESSARY TO ACCOMMODATE NEW WORK AND THE REPAIR OF EXISTING WORK.
		<u>SECTION SYMBOL</u> — SECTION NUMBER — DRAWING NUMBER	<ol> <li>WHEN WORK INVOLVES CONTACT WITH MATERIALS CONTAINING ASBESTOS, PCB, OR OTHER TOXIC MATERIALS, NOTIFY OWNER, WHO WILL ESTABLISH PROCEDURES FOR REMEDIATION AND REMOVAL.</li> <li>CONTRACTOR SHALL SCHEDULE THE WORK UNDER THIS CONTRACT WITH WORK OF OTHER TRADES AS NOT TO DELAY.</li> </ol>
$\mathbf{x}$		DETAIL CALLOUT SYMBOL — DETAIL NUMBER — DRAWING NI IMBER	THE OVERALL PROGRESS OF THE PROJECT. 20. CONTRACTOR SHALL NOTIFY ARCHITECT/ENGINEER OF ANY CONFLICTS PRIOR TO PURCHASING EQUIPMENT AND PRIOR
$\langle x \rangle$		KEYED NOTE TAG	<ul> <li>TO CUTTING OPENINGS.</li> <li>21. CONTRACTOR SHALL PROVIDE SHOP DRAWINGS PER SPECIFICATIONS PRIOR TO PURCHASING OR INSTALLING EQUIPMENT AND SYSTEMS INDICATED ON CONTRACT DOCUMENTS. PRIOR TO SUBMITTAL, CONTRACTOR SHALL VERIFY THAT ADEQUATE SPACE EXISTS FOR THE SUBMITTED EQUIPMENT. SHOP DRAWINGS MUST BE REVIEWED BY</li> </ul>
$\bigcirc$		SHEET NOTE TAG	<ul> <li>ARCHITECT/ENGINEER.</li> <li>22. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COSTS INCURRED BY OTHER TRADES DUE TO SUBSTITUTION OF OTHER THAN SCHEDULED EQUIPMENT. WHEN EQUIPMENT FURNISHED IS DIFFERENT THAN INDICATED, THE COST OF</li> </ul>
			<ul> <li>ADDITIONAL ELECTRICAL SERVICE, STRUCTURAL AND RELATED WORK SHALL BE PAID BY THIS CONTRACTOR.</li> <li>23. ALL WORK SHALL BE EXECUTED IN A NEAT AND WORKMANLIKE MANNER AND SHALL BE DONE IN ACCORDANCE WITH GOOD TRADE PRACTICE AND IN CONFORMANCE WITH APPLICABLE MANUFACTURERS' RECOMMENDATIONS.</li> </ul>
			24. CONTRACTOR SHALL REMOVE ALL TRASH, DEBRIS AND DEMOLITION MATERIAL FROM PREMISES AT THE END OF EACH DAY.
			25. RESTORE ALL SURFACES (WALLS, CEILINGS, FLOORS AND ROOFS) THAT ARE DAMAGED BY THE WORK OF THIS

- CONTRACT TO THEIR ORIGINAL CONDITION AT NO EXTRA COST TO THE OWNER.
- 26. PRIOR TO EQUIPMENT STARTUP, CONTRACTOR SHALL PERFORM THE SPECIFIED STARTUP AND COMMISSIONING PROCEDURES.
- 27. IN THE ABSENCE OF OTHER SPECIFIC INSTRUCTIONS, ALL WORK AND MATERIALS SUPPLIED SHALL BE GUARANTEED FOR A PERIOD OF ONE (1) YEAR FROM THE DATE OF THEIR ACCEPTANCE BY THE OWNER.
- 28. BALA CONSULTING ENGINEERS, INC. (BALA) WILL PROVIDE CONTRACTOR WITH ELECTRONIC CADD FILES OF THE ENGINEERING DESIGNS FOR THE SOLE USE IN EXPEDITING SHOP DRAWINGS. BALA'S FILES SHALL NOT BE DIRECTLY COPIED AND ISSUED AS SHOP DRAWINGS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL FIELD COORDINATION, DIMENSIONING AND ADHERENCE TO THE SHOP DRAWING REQUIREMENTS AS NOTED IN THE SPECIFICATIONS. SHOULD THE SHOP DRAWINGS SUBMITTED PROVE TO BE A DIRECT COPY OF OUR FILES WITHOUT THE NECESSARY FIELD COORDINATION, DIMENSIONING AND ADHERENCE TO THE SHOP DRAWING REQUIREMENTS AS NOTED IN THE SPECIFICATIONS. SHOULD THE SPECIFICATIONS, THESE SHOP DRAWINGS WILL BE RETURNED AS REJECTED. BALA'S ELECTRONIC FILES ARE CREATED IN AUTOCAD OR REVIT BASED ON THE PROJECT'S DOCUMENTATION REQUIREMENTS. BALA MAKES NO REPRESENTATION AS TO THE COMPATIBILITY OF THESE FILES WITH THE CONTRACTOR'S HARDWARE OR THEIR SOFTWARE. DATA CONTAINED ON THESE ELECTRONIC FILES ARE PART OF BALA'S "INSTRUMENTS OF SERVICE" AND

ARE COPYRIGHTED. CONTRACTOR'S USE OF FILES IS FOR THE SOLE PURPOSE AS A CONVENIENCE IN THE

UNLAWFUL.

5

PREPARATION OF DRAWINGS FOR THE REFERENCED PROJECT. ANY OTHER USE OR REUSE BY CONTRACTOR IS

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# RACEWAYS FOR AUDIOVISUAL SYSTEM CABLING MENT, THE ELECTRICAL CONTRACTOR SHALL PROVIDE ALL RACEWAYS FOR AUDIOVISUAL WORK, (EXCEPT FOR J-HOOKS BY K FOR AVC), (UNLESS OTHERWISE NOTED) INCLUDING CONDUITS WITH PULL STRINGS, FITTINGS, SURFACE RACEWAYS, BACK RACT BOXES, UNISTRUT/THREADED ROD, OUTLET BOXES, FLOOR BOXES, CABLE TRAYS, LADDER RACKS, PULL BOXES, EXCAVATION, DEMOLITION CUTTING AND PATCHING, SEALING, ETC., REQUIRED FOR THE AV WORK. REFER TO THOSE RESPECTIVE TRADE DOCUMENTS FOR SPECIFIC REQUIREMENTS RELATED TO SIZES, ROUTING, LOCATIONS AND OTHER REQUIREMENTS UNLESS OTHERWISE NOTED. ENTIRE INSTALLATION, INCLUDING MATERIALS, EQUIPMENT AND WORKMANSHIP, SHALL CONFORM WITH THE SPECIFICATIONS AS OUTLINED IN THE ELECTRICAL SPECIFICATIONS, THE CURRENT NATIONAL ELECTRIC CODE AND WITH ALL APPLICABLE LAWS, CODES, REGULATIONS, AND REGULATORY BODIES HAVING JURISDICTION OVER THIS WORK. THE ELECTRICAL CONTRACTOR SHALL COORDINATE ALL WORK/REQUIREMENTS WITH THE AUDIOVISUAL INSTALLING CONTRACTORS. THE ELECTRICAL CONTRACTOR SHALL PROVIDE ANY AND ALL ADDITIONAL LABOR AND MATERIALS PER THE AUDIOVISUAL DRAWINGS AND/OR CALLED FOR IN THEIR WRITTEN SPECIFICATIONS. FIRESTOPPING FIRESTOP SYSTEMS SHALL BE PROVIDED FOR ALL THROUGH PENETRATIONS OF AV CABLING, CONDUIT, SLEEVES, CABLE TRAYS, ETC., THROUGH FIRE-RATED WALLS AND FLOORS AND OTHER FIRE-RATED PARTITIONS. FIRESTOP SYSTEMS SHALL CONSIST OF MECHANICAL OR NON-MECHANICAL MATERIALS, OR COMBINATION OF MATERIALS, INSTALLED TO RETAIN THE INTEGRITY OF FIRE RESISTANCE RATED CONSTRUCTION BARRIERS. FIRESTOP SYSTEMS AND SOLUTIONS SHALL BE IN ACCORDANCE WITH NFPA 70: NATIONAL ELECTRIC CODE 2020 ARTICLES AND THE AUTHORITY HAVING JURISDICTION (AHJ). WHERE NON-MECHANICAL FIRESTOP SYSTEMS ARE UTILIZED, CONTRACTOR TO PROVIDE PRODUCTS THAT UPON CURING DO NO RE-EMULSIFY, DISSOLVE, BREAKDOWN OR OTHERWISE DETERIORATE OVER TIME FROM EXPOSURE TO ATMOSPHERIC MOISTURE, SWEATING PIPES, PONDING WATER, OR OTHER FORMS OF MOISTURE CHARACTERISTIC DURING OR AFTER CONSTRUCTION. ALL WALL PENETRATIONS FOR CABLE SHALL PASS THRU A METAL SLEEVE PROVIDED BY THE AV CONTRACTOR. FIRESTOP WHERE APPLICABLE. PROVIDE ONLY FIRESTOP PRODUCTS THAT HAVE BEEN TESTED FOR SPECIFIC FIRE RESISTANCE RATED CONSTRUCTION CONDITIONS CONFORMING TO CONSTRUCTION ASSEMBLY TYPE, PENETRATING ITEM TYPE, ANNULAR FROM SPACE REQUIREMENTS, AND FIRE RATING INVOLVED FOR EACH SEPARATE INSTANCE. ΓWEEN UPON COMPLETION OF THE PROJECT, THE CONTRACTOR SHALL CERTIFY THAT ALL THROUGH PENETRATIONS FOR AV CABLING HAVE BEEN SATISFACTORILY SEALED AND FIRESTOPPED. FEES. CONTRACTOR AWARENESS CONTRACTORS ARE CAUTIONED TO READ, UNDERSTAND AND COMPLY WITH THE WRITTEN SPECIFICATIONS AND ALL CONTRACT DRAWINGS FOR THIS PROJECT. IF ANY DISCREPANCY IS NOTICED BETWEEN THE DRAWINGS AND WRITTEN SPECIFICATIONS, THE CONTRACTOR SHALL BRING IT TO THE ATTENTION OF THE ARCHITECT AND ENGINEER PRIOR TO SUBMITTING THEIR BID. THE BID PRICE SHALL BE BASED ON THE HIGHER QUALITY, QUANTITY OR PRICE OF ANY DISCREPANCY WHICH HAS NOT BEEN SETTLED PRIOR TO THE BID DATE. NO ADDITIONAL COMPENSATION SHALL BE APPROVED IF THE CONTRACTOR FAILS TO NOTIFY THE ARCHITECT AND ENGINEER. CATED. AUDIOVISUAL GENERAL NOTES AVC SHALL BE RESPONSIBLE FOR PROVIDING ALL SPEAKER BAFFLES, SUPPORT FRAMES AND CONNECTIVITY FOR SPEAKER ENCLOSURES. AVC SHALL COORDINATE WITH OTHER TRADES FOR INSTALLATION OF ALL EQUIPMENT INCLUDING BUT NOT LIMITED TO RACKS, SPEAKERS, AND WIRE SUPPORT. AVC SHALL INSTALL CABLE SUPPORT FOR ALL HORIZONTAL CABLE. CABLE SHALL NOT BE PLACED TO REST ON CEILINGS, WATER PIPES, HEATING PIPES OR ELECTRICAL LINES. MOUNTING HEIGHT NOTES COORDINATE ALL AV DEVICE LOCATIONS PERTAINING TO WALL ELEVATION AFF. REFER TO ARCHITECT DRAWINGS FOR MOUNTING REQUIREMENTS.

2. ALL DEVICES SHOWN ON DRAWINGS ARE DIAGRAMMATIC IN LOCATION AND SHOWN FOR GENERAL WIRING PURPOSES ONLY, UNLESS OTHERWISE NOTED. ALL DEVICES INDICATED TO BE INSTALLED IN THE SAME LOCATIONS WITH DIFFERENT ELEVATIONS SHALL BE ALIGNED VERTICALLY AND HORIZONTALLY. REFER TO ARCHITECTURAL DRAWINGS FOR MOUNTING DETAILS.

# INSTALLATION GUIDELINES

. PROVIDE ALL NECESSARY CABLE, SUPPORTS AND HARDWARE FOR A COMPLETE AND OPERABLE AUDIOVISUAL SYSTEM. OBSERVE ALL MANUFACTURER INSTALLATION GUIDELINES INCLUDING:

TERMINATION POSITION/JACKET REMOVAL
RECOMMENDED PULLING TENSIONS

BEND RADIUS FOR CABLE

. COORDINATE ALL WORK WITH THE GENERAL CONTRACTOR, CLIENT REPRESENTATIVES AND ADHERE TO THE PROJECT SCHEDULE. IF THERE WILL BE WORK CONDUCTED OUT OF SEQUENCE, INCLUDE ALL "OFF HOURS" WORK WITHIN FINAL PRICING.

3

NATIONAL FIRE PROTECTION AGENCY

4

NATIONAL ELECTRIC CODE NFPA 70, ARTICLES:250 GROUNDING

800 TELECOMMUNICATIONS CIRCUITS AND SYSTEMS
820 COMMUNITY ANTENNA TELEVISION AND RADIO DISTRIBUTION SYSTEMS

TECHNOLOGY DOCUMENTATION SCOPE											
SCOPE AREA	ARCHITECTURE	E SERIES	T SERIES	TA SERIES	SC SERIES						
IT RISER CONDUIT	RISER CAVITY DOCUMENTED ON BASE BUILDING SET	SHOWN FOR SCOPE ON BASE BUILDING SET	SHOWN FOR COORDINATION	N/A	N/A						
IT, AV, SEC CLOSET/ ROOM POWER	NOT SHOWN	SHOWN FOR SCOPE	SHOWN FOR COORDINATION	SHOWN FOR COORDINATION	SHOWN FOR COORDINATION						
IT, AV, SEC CLOSET WALL BOARD	NOT SHOWN	NOT SHOWN	SHOWN FOR SCOPE	SHOWN FOR SCOPE	SHOWN FOR SCOPE						
AV & SECURITY FIELD DEVICE POWER	SHOWN FOR LOCATION COORDINATION	SHOWN FOR SCOPE	N/A	SHOWN FOR COORDINATION	SHOWN FOR COORDINATION						
FLOOR BOXES / POKE THRUS	SHOWN FOR LOCATION COORDINATION	SHOWN FOR SCOPE (DEVICE TYPE, CONDUIT & CIRCUITING)	SHOWN FOR DATA CABLING	SHOWN FOR AV CABLING	N/A						
AV IN-WALL BOXES	SHOWN FOR HORIZONTAL LOCATION COORDINATION	SHOWN FOR CIRCUITING	SHOWN FOR DATA CABLING	SHOWN FOR VERTICAL LOCATION AND AV CABLING	N/A						
AV, IT, SEC LOW VOLTAGE CONDUIT	NOT SHOWN	SHOWN FOR CONDUIT SCOPE	SHOWN FOR DATA CABLING	SHOWN FOR AV CABLING	SHOWN FOR SECURITY CABLING AND CONDUIT SCOPE						
AV, FIELD DEVICE DATA	NOT SHOWN	N/A	SHOWN FOR DATA CABLING	SHOWN FOR COORDINATION	N/A						
SECURITY CAMERA FIELD DEVICE DATA	NOT SHOWN	N/A	SHOWN FOR DATA CABLING	N/A	SHOWN FOR COORDINATION						
AV DISPLAY WALL BLOCKING	SHOWN FOR LOCATION COORDINATION OR REFER TO AV SET	N/A	N/A	SHOWN FOR SCOPE	N/A						

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												ISSUED NOT REVISED			
							REMOVED FROM DRAWING SET								
	DRAWING LIST - A	AUDIO	OVISUAL	_				_							
DRAWING NUMBER	DRAWING TITLE			024.05.16 - 95% CONSTRUCTION DOCUMENT REVIEW	2024.06.21 - 100% CDs ISSUED FOR PERMIT	2024.07.26 - ISSUED FOR BID	2024.08.26 - ISSUE FOR CONSTRUCTION	2024.09.25 - ADDENDUM B							
TA0.01	AUDIOVISUAL LEGENDS, ABBREVIATIONS, AND GENERAL NOTES		0	• 2	•	•	•	•	+						
TA0.02	AUDIOVISUAL - SYMBOL LEGEND		0	•	•	•	•	•							
TA0.03	AUDIOVISUAL - DETAILS		0	•	•	•	•	•							
TA2.00L	AUDIOVISUAL - LOWER LEVEL PLAN		0	•	•	•	•								
TA2.01	AUDIOVISUAL - LEVEL ONE PLAN		0	•	•	•	•								
TA6.01	AUDIOVISUAL - ENLARGED PLANS - FIRST FLOOR LOBBY		О	•	•	•	•	•							
TA6.02	AUDIOVISUAL - ENLARGED PLANS - STUDENT LOUNGE		Ο	•	●	•	•	•							
TA6.03	AUDIOVISUAL - ENLARGED PLANS - ELEVATOR LOBBY		O	•	•	•	•	•							
TA6.04	AUDIOVISUAL - ENLARGED PLANS - OFFICE - ADD ALT #1		0	•	•	•	•	•							
TA6.05	AUDIOVISUAL - ENLARGED PLANS - SEMINAR		0	•	•	•	•	•							
TA6.06	AUDIOVISUAL - ENLARGED PLANS - CLASSROOM G18/19		0	•	•	•	•	•							
TA6.07	AUDIOVISUAL - ENLARGED PLANS - LARGE CLASSROOM G25		0	•	•	•	•	•							
TA6.08	AUDIOVISUAL - ENLARGED PLANS - CETL LEARNING STUDIO		0	•	•	•	•	•							
TA6.09	AUDIOVISUAL - ENLARGED PLANS - SMALL GROUP STUDY - ADD ALT #1			•	•	•	•	•							
TA6.10	AUDIOVISUAL - ENLARGED PLANS - LARGE GROUP STUDY - ADD ALT #1			•	•	•	•	•							
TA6.11	AUDIOVISUAL - ENLARGED PLANS - CETL SEMINAR ROOM		0	•	•	•	•	•							
TA6.12	AUDIOVISUAL - ENLARGED PLANS - CLASSROOM G26		Ο	•	•	•	•	•							
TA6.13	AUDIOVISUAL - ENLARGED PLANS - MENTORING CENTER		0	•	•	•	•	•							
TA6.14	AUDIOVISUAL - ENLARGED PLANS - CLASSROOM G15/G16			•	•	•	•	•							

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AUDIOVISUAL SYMBOLS										
SYMBOL	DESCRIPTION	CABLE TYPE & QUANTITY	BACK BOX(UNDER GC SCOPE UON)	DEDICATED AV CONDUIT/PATHWAY	DEDICATED AV POWER	DEDICATED T AV DATA	TYPICAL BACK BOX CENTERLINE MOUNTING HEIGHT FROM FINISHED FLOOR	NOTES		
ALS	CEILING MOUNTED INFRARED ASSISTIVE LISTENING EMITTER	(1) SHIELDED 20/2 AWG TYPE CMP (1) 18/2 AWG TYPE CMP	HARD CEILING - SINGLE GANG ACT CEILING - N/A	HARD CEILING - (1) 1-1/4" EMT TO ACCESSIBLE CEILING ACT CEILING - N/A	N/A	N/A	CEILING			
	WALL MOUNTED INFRARED ASSISTIVE LISTENING EMITTER	(1) SHIELDED 20/2 AWG TYPE CMP (1) 18/2 AWG TYPE CMP	4-11/16" SQUARE X 3-1/4" DEEP BACK BOX - WITH 1-GANG MUDRING	(1) 1-1/4" EMT TO ACCESSIBLE CEILING	N/A	N/A	86" AFF			
(PT)#	POKE THRU	(#) CATEGORY 6 UTP	SEE ELECTRICAL DRAWINGS	(1) 1-1/4" EMT, SHARED WITH TELCOM CABLING, TO DISPLAY BACKBOX O ACCESSIBLE CEILING PER AV ELEV	R (1) DUPLEX 5-15R 120V 20A /ATIONS	# INDICATES AV DATA CABLI COUNTS - REFER TO TA-6XX SERIES ENLARGED PLANS	ING S FLOOR			
D% #	DISPLAY IN-WALL BOX, % INDICATED TYPE 1 = CHIEF PAC501 6 = CHIEF PAC526FCW 7 = CHIEF PAC527F S = SPECIAL	1 = (2) CATEGORY 6 UTP 6 = (2) CATEGORY 6 UTP 7 = (2) CATEGORY 6 UTP S = (2) CATEGORY 6 UTP	1 = PROVIDED BY EC 6 = PROVIDED BY EC 7 = PROVIDED BY EC S = SUPPLIED BY AVC, INSTALLED BY EC	REFER TO TA 6.XX SERIES DISPLAY WALL ELEVATIONS	(2) DUPLEX 5-15R 120V 20A	# INDICATES AV DATA CABLI COUNTS - REFER TO TA-6XX SERIES ENLARGED PLANS	ING C OF DISPLAY, SEE INDIVIDUAL ELEVATION	INCLUDE WHITE TRIM RING AND COVER FOR ALL PAC526F AND PAC527F IN WALL BOXES		
S	SPEAKER, CEILING MOUNTED	<ul> <li>(1) 18/2 AWG TYPE CMP FROM RACK/VOLUME CONTROL</li> <li>(1) 18/2 AWG TYPE CMP TO NEXT SPEAKER</li> </ul>	N/A	N/A	N/A	N/A	CEILING	MOUNT WITH ACT BRIDGE OR PRE- CONSTRUCTION MUD-IN RING PER CEILING TYPE		
CP%	WALL MOUNTED TOUCHPANEL, % INDICATES SIZE 7 = 7" 1 = 10"	(1) CATEGORY 6 TYPE CMP	4-11/16" SQUARE X 3-1/4" DEEP BACKBOX - WITH 2- GANG/1-GANG MUDRING	1-1/4" EC TO ACCESSIBLE CEILING	N/A	1	45" AFF			
CP%	COUNTERTOP/ SURFACE TOUCHPANEL, % INDICATES SIZE 7 = 7" 1 = 10"	(1) CATEGORY 6 UTP	N/A	N/A	N/A	1	N/A	REQUIRES 1-1/4" GROMMET OR TABLE HATCH PENETRATION IN TABLE SURFACE		
	AV WALL PLATE, % INDICATES SIZE: 1 = SINGLE-GANG 2 = DOUBLE-GANG 3 = TRIPLE-GANG 4 = QUAD-GANG 12 = 12"x12" SQUARE	REFER TO INDIVIDUAL SIGNAL FLOW DIAGRAMS	1 = 4-11/16" SQUARE X 3-1/4" DEEP BACK BOX - WITH 1-GANG MUDRING 2 = 4-11/16" SQUARE X 3-1/4" DEEP BACK BOX - WITH 2-GANG MUDRING 3 = 4-11/16"H X 6-11/16" W X 3-1/4" DEEP BACK BOX - WITH 3-GANG MUDRING 4 = 4 11/16"H X 8-11/16"W X 3-1/4" DEEP BACK BOX - WITH 4-GANG MUDRING 12 = 12"x12" BACK BOX	1-1/4" EC TO ACCESSIBLE CEILING	N/A	N/A	# INDICATES CUSTOM HEIGHT, OTHERWISE PROJECT RECEPTACLE HEIGHT			
(BP)	WALL MOUNTED BUTTON PANEL	(1) CATEGORY 6 TYPE CMP REFER TO INDIVIDUAL SIGNAL FLOW DIAGRAMS	4-11/16" SQUARE X 3-1/4" DEEP BACKBOX - WITH 1-GANG MUDRING	1-1/4" EC TO ACCESSIBLE CEILING	N/A	N/A	PROJECT SWITCH HEIGHT			
	BLUETOOTH WALL PLATE	(1) CATEGORY 6 TYPE CMP	4-11/16" SQUARE X 3-1/4" DEEP BACKBOX - WITH 1-GANG MUDRING	1-1/4" EC TO ACCESSIBLE CEILING	N/A	N/A	PROJECT SWITCH HEIGHT			
CMA	CEILING MICROPHONE ARRAY	(2) CATEGORY 6 TYPE CMP	N/A	N/A	N/A	1	CEILING			
%	PRESENTATION CAMERA, % INDICATES TYPE IW = IN-WALL MOUNTED W = WALL MOUNTED D = DISPLAY MOUNTED C = CEILING MOUNTED		IW = CUSTOM CAMERA BOX W = 4-11/16" SQUARE X 3-1/4" DEEP BACKBOX - WITH 2-GANG MUDRING D = N/A C = SEE DETAILS	IW = 1 1-4" EC TO DISPLAY BOX OR ACCESSIBLE CEILING W = 1-1/4" EC TO DISPLAY BOX OR ACCESSIBLE CEILING D = N/A C = 1-1/4" EC TO ACCESSIBLE CEILING /	N/A	N/A	IW = SEE INDIVIDUAL ELEVATIONS W = SEE INDIVIDUAL ELEVATIONS D = ABOVE OR BELOW DISPLAY - SE INDIVUDAL ELEVATIONS C = CEILING	E		











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THIS SPACE.

2 TA6.04 AUDIOVISUAL - ENLARGED RCP - OFFICE BACK-TO-BACK - ADD ALT #1 1/4" = 1'-0" NOTE: NO CEILING-MOUNTED AUDIOVISUAL HARDWARE IN



4



3







- 1-1/4" EMT CONDUIT UP TO ACCESSIBLE CEILING FOR TELECOMMUNICATIONS CABLING. REFER TO STRUCTURED CABLING DRAWINGS FOR REQUIREMENTS. (PROVIDED BY EC) - 1-1/4" EMT CONDUIT UP TO ACCESSIBLE CEILING FOR AUDIOVISUAL CABLING. (PROVIDED BY EC) — 43" DISPLAY (PROVIDED BY AVC) — MOUNT FOR 43" DISPLAY (PROVIDED BY AVC) - 3/4" PLYWOOD BACKBOARD OR METAL STRAPPING WITH 3" CLEARANCE FROM EDGE OF DISPLAY ON ALL SIDES (PROVIDED BY GC)

1

- IN-WALL BOX; FOR AV HARDWARE, POWER & DATA (PROVIDED BY EC)

6 TA6.04 1/2" = 1'-0" NOTE: FINAL DISPLAY INSTALLATION FREGRY'S TO BE COORDINATED PENDING FINAL FURNITURE SELECTIONS. NOTE: DISPLAY ASSEMBLY DEPTH IS GREATER THAN 4".  $\overline{}$ 



![](_page_115_Figure_1.jpeg)

- 5

![](_page_115_Figure_3.jpeg)

![](_page_115_Figure_4.jpeg)

![](_page_115_Figure_5.jpeg)

![](_page_115_Figure_6.jpeg)

3

4

2

WALL-MOUNTED PTZ CAMERA (PROVIDED BY AVC)

- BACKBOX FOR CAMERA (PROVIDED BY EC)

1

(PROVIDED BY EC)

- 1-1/4" EMT CONDUIT UP TO ACCESSIBLE CEILING

![](_page_115_Figure_26.jpeg)

- 5

![](_page_116_Figure_1.jpeg)

![](_page_116_Figure_2.jpeg)

![](_page_116_Figure_4.jpeg)

![](_page_116_Figure_5.jpeg)

![](_page_116_Figure_6.jpeg)

# TA6.06 AUDIOVISUAL - ELEVATION - CLASSROOM G18/G19 REAR CAM

![](_page_116_Figure_8.jpeg)

| €<del>\</del>

![](_page_116_Figure_10.jpeg)

![](_page_116_Figure_11.jpeg)

![](_page_117_Figure_0.jpeg)

	S			<u>(S)</u>
		E CMA		
	S	V.		(S)
	S			(S)

# - (2X)1-1/4" EMT CONDUIT UP TO ACCESSIBLE CEILING

REFER TO STRUCTURED CABLING DRAWINGS

- (2X)1-1/4" EMT CONDUIT UP TO ACCESSIBLE CEILING

(2X)IN-WALL BOX; FOR AV HARDWARE,

![](_page_117_Figure_13.jpeg)

1

4 AUDIOVISUAL - ELEVATION - LARGE CLASSROOM G25 REAR CAM

![](_page_117_Figure_16.jpeg)

![](_page_118_Figure_0.jpeg)

![](_page_118_Figure_1.jpeg)

![](_page_118_Figure_2.jpeg)

![](_page_118_Figure_3.jpeg)

![](_page_118_Figure_5.jpeg)

![](_page_118_Figure_6.jpeg)

![](_page_118_Figure_7.jpeg)

![](_page_119_Figure_0.jpeg)

![](_page_119_Figure_1.jpeg)

AV2

![](_page_119_Figure_2.jpeg)

![](_page_119_Figure_4.jpeg)

2 TA6.09 AUDIOVISUAL - ENLARGED RCP - SMALL GROUP STUDY - ADD ALT #1 1/4" = 1'-0" NOTE: NO CEILING-MOUNTED AUDIOVISUAL HARDWARE IN THIS SPACE.

3

![](_page_119_Figure_6.jpeg)

4

WIRELESS COLLAB

WCD-01 HDMI

USB -

— LAN

![](_page_119_Figure_7.jpeg)

![](_page_119_Figure_8.jpeg)

2

![](_page_119_Figure_9.jpeg)

![](_page_120_Figure_0.jpeg)

![](_page_120_Figure_2.jpeg)

AV2

HDMI

USB

5

B

D5 |

WIRELESS COLLAB

WCD-01 HDMI +

![](_page_120_Figure_3.jpeg)

![](_page_120_Figure_4.jpeg)

3

![](_page_120_Figure_5.jpeg)

4

![](_page_120_Figure_6.jpeg)

3 TA6.10
3
AUDIOVISUAL - ELEVATION - LARGE GROUP STUDY - ADD ALT #1
1/2" = 1'-0"
NOTE: FINAL DISPLAY INSTALLATION HEIGHTS TO BE COOPDINATED DEVICE TO BE NOTE: FINAL DISPLAY INSTALLATION HEIGHTS TO BE COORDINATED PENDING FINAL FURNITURE SELECTIONS. NOTE: DISPLAY ASSEMBLY DEPTH IS LESS THAN 4".

2

![](_page_120_Figure_8.jpeg)

![](_page_121_Figure_0.jpeg)

![](_page_121_Figure_1.jpeg)

![](_page_121_Figure_3.jpeg)

![](_page_121_Figure_5.jpeg)

![](_page_122_Figure_1.jpeg)

3

![](_page_122_Figure_2.jpeg)

5

![](_page_122_Figure_3.jpeg)

- 1-1/4" EMT CONDUIT UP TO ACCESSIBLE CEILING FOR TELECOMMUNICATIONS CABLING. REFER TO STRUCTURED CABLING DRAWINGS FOR REQUIREMENTS. (PROVIDED BY EC) - 1-1/4" EMT CONDUIT UP TO ACCESSIBLE CEILING FOR AUDIOVISUAL CABLING. (PROVIDED BY EC) (PROVIDED BY AVC) - MOUNT FOR 98" DISPLAY (PROVIDED BY AVC) - 1-1/4" EMT CONDUIT UP TO ACCESSIBLE CEILING (PROVIDED BY EC) - WALL-MOUNTED ASSISTIVE LISTENING EMITTER (PROVIDED BY AVC) - SINGLE GANG BOX FOR ASSISTIVE LISTENING EMITTER (PROVIDED BY EC) - 1-1/4" EMT CONDUIT UP TO DEVICE ABOVE (PROVIDED BY EC) - BACKBOX FOR CAMERA (PROVIDED BY EC) (PROVIDED BY AVC)

![](_page_122_Figure_6.jpeg)

![](_page_122_Figure_7.jpeg)

![](_page_122_Figure_8.jpeg)

![](_page_122_Figure_9.jpeg)

1

![](_page_122_Figure_10.jpeg)

![](_page_123_Figure_0.jpeg)

![](_page_123_Figure_1.jpeg)

![](_page_123_Figure_2.jpeg)

![](_page_123_Figure_3.jpeg)

![](_page_123_Figure_5.jpeg)

![](_page_123_Figure_6.jpeg)

![](_page_123_Figure_7.jpeg)

TA6.13 1/2" = 1'-0" NOTE: DISPLAY ASSEMBLY DEPTH IS LESS THAN 4".

![](_page_123_Figure_9.jpeg)

![](_page_124_Figure_0.jpeg)

- 5

![](_page_124_Figure_3.jpeg)

![](_page_124_Figure_7.jpeg)

	ABBREVIATIONS		
(BP)	BLANK PLATE	1.	THE WORK TO BE DONE UND
(E) (FD)	EXISTING TO REMAIN		EQUIPMENT, MATERIALS, LA
(ER)	EXISTING ITEM TO BE RELOCATED		INDICATED ON THE CONTRA
(EX)	EXISTING TO BE REUSED		INSTALLATION IN A SUBSTAN
(N) (PL)	NEW ITEM	2.	THE WORK SHALL CONFORM
(RL) 8P8C	8-POSITION. 8-CONDUCTOR		GUIDELINES (AS APPLICABLE
A/D	ANALOG TO DIGITAL CONVERSION		AUTHORITIES HAVING JURIS
AC	ALTERNATING CURRENT		CERTIFATIONS SHALL CONF
ACP	ACCESS CONTROL PANEL	3.	THE DRAWINGS ARE DIAGRA
ACT	ACOUSTIC CEILING TILE		ARRANGEMENT OF THE WOR
ADA	AMERICANS WITH DISABILITIES ACT		CHANGES OR ADJUSTMENTS
ADO			SHALL BE PROVIDED WITHOUT
AFF	ABOVE FINISHED FLOOR		
AHJ	AUTHORITY HAVING JURISDICTION	4.	INSTALLATION OF WORK SHA
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE		APPLICABLE CODES. ALL CE
AVC	AUDIOVISUAL CONTRACTOR		PIPING, AND DUCTWORK DU
AWG	AMERICAN WIRE GAUGE	5.	THE TERM "FURNISH" SHALL
BICSI	BUILDING INDUSTRY CONSULTING SERVICES		"MECHANICAL WORK", "ELEC
С	CONDUIT		EQUIPMENT, SCAFFOLDING,
CAB	CABINET		
CATV		6.	THE CM/GC SHALL MAKE SE SPECIFICATIONS: AND ISSUE
CCTV	CLOSED CIRCUIT TELEVISION		CONTRACTOR ON EACH BID
CDT	CONDUIT		TRADE OR DISCIPLINE DRAM
CKT			OF THE BID DOCUMENTS. IT
UL CLG	GENTER LINE CEILING		DOCUMENTS. BIDDERS ARE
CM	CONSTRUCTION MANAGER	-	
CMP	COMMUNICATIONS MULTIPURPOSE PLENUM	1.	COORDINATED LAYOUT OF A
	COMMUNICATIONS MULTIPURPOSE RISER		RESPECTIVE SCOPE. THE CO
CPU	CENTRAL PROCESSING UNIT		BETWEEN TRADES AND ALL
CU			SHALL BE THE RESPONSIBIL MINOR RELOCATIONS AND S
D/A DB	DIGITAL TO ANALOG CONVERSION DECIBEI		INTENT INDICATED ON THE C
DC	DIRECT CURRENT		CONTRACTORS DISCRETION
DVR	DIGITAL VIDEO RECORDER	8.	CONTRACTOR SHALL ARRAN
JWG =C	DRAWING(S) FLECTRICAL CONTRACTOR		FEES.
EIA	ELECTRONICS INDUSTRY ASSOCIATION	9.	THE DRAWINGS INDICATE AF
ELEC	ELECTRICAL		ADDRESS CONFLICTS BETW
EMERG FMI	EMERGENCY		BE REVIEWED AND APPROVE
EMR	ELEVATOR MACHINE ROOM	10.	FOR ANY DISCREPANCY BET
EMT	ELECTRICAL METALLIC TUBING		DISCREPANCIES AS PART OF
EOLR Fa	END-OF-LINE RESISTOR FIRE ALARM	11	
-CC	FEDERAL COMMUNICATIONS COMMISSION	11.	ALARM, AND CONTROL CIRC
0	FIBER OPTIC	12.	ALL SERVICES TO EXISTING
T	FEET		INDICATED. CONTRACTOR S
TP	FOIL TWISTED PAIR	13.	THE CONTRACTOR SHALL EF
, GND	GROUND GENERAL CONTRACTOR		PHYSICAL DAMAGE UNTIL FI
HZ	GIGAHERTZ	14	
IH	HANDHOLE	14.	REROUTED, EXTENDED OR A
1Z /0	HERTZ INPUT/ OUTPUT	15	WHERE BEAMS ARE INDICAT
CP	INTRUSION CONTROL PANEL	10.	SIZES AND LOCATIONS OF T
DF			PENETRATIONS AND SHEAR
DS FFF		16.	CONTRACTOR SHALL COORD
	ENGINEERS		UTHER TRADES.
ISP IB		17.	PROVIDE CUTTING AND PATE
KHZ	KILOHERTZ		
LAN	LOCAL AREA NETWORK	18.	WHEN WORK INVOLVES CON NOTIFY OWNER, WHO WILL E
_ED _V	LIGHT EMITTING DIODE LOW VOLTAGE	10	
MAX	MAXIMUM	19.	DELAY THE OVERALL PROGR
MDF		20	CONTRACTOR SHALL NOTES
	NOT IN CONTRACT	20.	PRIOR TO CUTTING OPENING
NO. OR	NUMBER	21.	CONTRACTOR SHALL PROVI
# NTS			EQUIPMENT AND SYSTEMS I
OFE	OWNER FURNISHED EQUIPMENT		ARCHITECT/ENGINEER.
OFNP	OPTICAL FIBER NON CONDUCTIVE PLENUM	22	CONTRACTOR SHALL BE REG
UFNR OTOR	OPTICAL FIBER NON CONDUCTIVE RISER	<u> </u>	OTHER THAN SCHEDULED E
PBX	PRIVATE BRANCH EXCHANGE		ADDITIONAL ELECTRICAL SE
PWR	POWER	23.	ALL WORK SHALL BE EXECU
≺EC RECEPT	RECESSED RECEPTICAL		GOOD TRADE PRACTICE ANI
RM	ROOM	24.	CONTRACTOR SHALL REMOV
RU		-	
SAN SC	STUKAGE AREA NETWORK SECURITY CONTRACTOR	25.	RESTORE ALL SURFACES (W CONTRACT TO THEIR ORIGIN
ГBB	TELECOMMUNICATINS BONDING BACKBONE		
TC	TELECOMMUNICATIONS CONTRACTOR	26.	PRIOR TO EQUIPMENT STAR PROCEDURES.
IEL IGB		07	
. 00	BUSBAR	27.	FOR A PERIOD OF ONE (1) YE
ΊA	TELECOMMUNICAIONS INDUSTRY	20	
TMGB	TELECOMMUNICATIONS MAIN GROUNDING	20.	ENGINEERING DESIGNS FOR
	BUSBAR		COPIED AND ISSUED AS SHO
١٢			SPECIFICATIONS. SHOULD T
JL		1	
ul Uon	UNLESS OTHERWISE NOTED		NOTED IN THE SPECIFICATION

	GENERAL NOTES
	THE WORK TO BE DONE UNDER THESE SPECIFICATIONS AND THE DRAWINGS CONSISTS OF PROVIDING ALL EQUIPMENT, MATERIALS, LABOR AND SERVICES AND PERFORMING ALL OPERATIONS TO COMPLETE THE CONSTRUCTION WORK FOR THIS PROJECT. ANY WORK NOT SPECIFICALLY COVERED BY THESE SPECIFICATIONS OR INDICATED ON THE CONTRACT DRAWINGS, BUT NECESSARY TO COMPLETE OR PERFECT ANY PART OF THIS INSTALLATION IN A SUBSTANTIAL MANNER, SHALL BE PROVIDED WITHOUT EXTRA COST TO THE OWNER.
	THE WORK SHALL CONFORM TO THE MORE STRINGENT OF ALL APPLICABLE CODES & REGULATIONS, UL AND FM GUIDELINES (AS APPLICABLE), MANUFACTURER'S LITERATURE AND RECOMMENDATIONS, BUILDING OPERATOR'S REQUIREMENTS, AND TO THE REQUIREMENTS OF FEDERAL, STATE AND LOCAL REGULATORY AGENCIES AND AUTHORITIES HAVING JURISDICTION. PROJECTS PURSING LEED, PASSIVE HOUSE, FITWEL OR OTHER SUSTAINBILITY CERTIFATIONS SHALL CONFORM TO ALL APPLICABLE REQUIREMENTS.
	THE DRAWINGS ARE DIAGRAMMATIC IN NATURE AND INDICATE THE EXTENT, GENERAL CHARACTER, LOCATION AND ARRANGEMENT OF THE WORK UNDER THIS CONTRACT. [EXACT LOCATIONS OF ALL COMPONENTS ARE TO BE DETERMINED IN THE FIELD AND BY THE ACTUAL BUILDING CONDITIONS.] WHERE JOB CONDITIONS REQUIRE MINOR CHANGES OR ADJUSTMENTS IN THE INDICATED LOCATIONS OR ARRANGEMENT OF THE WORK, SUCH CHANGES SHALL BE PROVIDED WITHOUT EXTRA COST. THE CONTRACTOR SHALL RE-INSTALL EQUIPMENT THAT HAS INADEQUATE OR UNSAFE ACCESSIBILITY.
	INSTALLATION OF WORK SHALL PROVIDE REASONABLE ACCESSIBILITY FOR OPERATION, INSPECTION AND MAINTENANCE OF EQUIPMENT AND ACCESSORIES. PROVIDE CLEARANCES REQUIRED BY MANUFACTURERS AND APPLICABLE CODES. ALL CEILING MOUNTED EQUIPMENT SHALL BE INSTALLED IN SUCH A MANNER THAT LIGHTS, PIPING, AND DUCTWORK DO NOT BLOCK ACCESS TO EQUIPMENT AND RELATED ACCESSORIES.
	THE TERM "FURNISH" SHALL MEAN TO OBTAIN AND SUPPLY TO THE JOB SITE. THE TERM "INSTALL" SHALL MEAN TO FIX IN POSITION AND CONNECT FOR USE. THE TERM "PROVIDE" SHALL MEAN TO FURNISH AND INSTALL. THE TERM "MECHANICAL WORK", "ELECTRICAL WORK", "PLUMBING WORK", ETC. SHALL MEAN ALL LABOR, MATERIAL, EQUIPMENT, SCAFFOLDING, RIGGING, TOOLS, SUPERVISION, SERVICES AND OTHER INCIDENTALS NECESSARY FOR COMPLETE AND OPERABLE INSTALLATION.
	THE CM/GC SHALL MAKE SETS OF THE BID DOCUMENTS CONSISTING OF COMPLETE SETS OF DRAWINGS AND SPECIFICATIONS; AND ISSUE THEM TO EACH OF THE PRIME AND SUB-CONTRACTORS. EVERY PRIME AND SUB- CONTRACTOR ON EACH BIDDING TEAM SHALL RECEIVE COMPLETE SETS OF DRAWINGS AND SPECIFICATIONS. THERE ARE NOTES AND CROSS REFERENCES FOR VARIOUS TRADE CONTRACTORS IN MULTIPLE TRADE OR DISCIPLINE DRAWINGS AND SPECIFICATIONS, THUS, EACH CONTRACTOR IS TO RECEIVE COMPLETE SETS OF THE BID DOCUMENTS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN THESE DRAWINGS FROM CM/GC. EACH CONTRACTOR IS RESPONSIBLE FOR THEIR WORK, AS NOTED ON THE OTHER DISCIPLINE DOCUMENTS. BIDDERS ARE RESPONSIBLE FOR ALL COSTS FOR EACH SET OF BID DOCUMENTS REQUESTED.
	CONTRACTOR IS RESPONSIBLE FOR PROVIDING A FULL COORDINATION EFFORT IN ORDER TO CREATE A FINALIZED COORDINATED LAYOUT OF ALL EQUIPMENT, SYSTEMS, DUCTWORK, PIPING AND ALL OTHER ITEMS WITHIN THEIR RESPECTIVE SCOPE. THE CONTRACTOR'S COORDINATION EFFORT SHALL INCLUDE COORDINATED INFORMATION FROM ALL OTHER TRADE CONTRACTOR'S INVOLVED IN THE PROJECT SCOPE IN ORDER TO PROVIDE COORDINATION BETWEEN TRADES AND ALL EXISTING CONDITIONS. ALL ERRORS MADE AS A RESULT OF A LACK OF COORDINATION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND CORRECTED AT NO ADDITIONAL COST TO THE PROJECT. MINOR RELOCATIONS AND SHIFTS OF EQUIPMENT, DUCTWORK, AND PIPING WHICH DO NOT CHANGE THE DESIGN INTENT INDICATED ON THE CONTRACT DOCUMENTS, REQUIRED TO ACCOMMODATE FIELD CONDITIONS ARE AT THE CONTRACTORS DISCRETION AND DO NOT REQUIRE ENGINEER APPROVAL.
	CONTRACTOR SHALL ARRANGE AND OBTAIN ALL PERMITS, INSPECTIONS AND APPROVALS, AND PAY ALL RELATED FEES.
	THE DRAWINGS INDICATE APPROXIMATE LOCATIONS BASED UPON INFORMATION OBTAINED WITHOUT REMOVING CEILING TILES OR WALLS. THEREFORE, THE CONTRACTOR SHALL INCLUDE IN THEIR BID CONTINGENCY COSTS TO ADDRESS CONFLICTS BETWEEN DESIGN AND EXISTING CONDITIONS. ANY CHANGES AND/OR MODIFICATIONS MUST BE REVIEWED AND APPROVED BY THE ENGINEER AND/OR OWNER'S REPRESENTATIVE PRIOR TO CONSTRUCTION.
0.	FOR ANY DISCREPANCY BETWEEN DRAWINGS AND/OR SPECIFICATIONS, THE CONTRACTOR SHALL BASE THEIR BID UPON THE MOST STRINGENT REQUIREMENT (QUALITY, QUANTITY, SIZE, ETC.). THE CONTRACTOR SHALL IDENTIFY DISCREPANCIES AS PART OF THEIR BID.
1.	PRIOR TO DEMOLITION, THE CONTRACTOR SHALL LOG ALL EXISTING EQUIPMENT AND TRACE ELECTRICAL, FIRE ALARM, AND CONTROL CIRCUITS THAT SERVE SUCH EQUIPMENT.
2.	ALL SERVICES TO EXISTING BUILDINGS SHALL BE MAINTAINED DURING CONSTRUCTION UNLESS OTHERWISE INDICATED. CONTRACTOR SHALL COORDINATE ALL SYSTEM SHUT DOWNS AND TIMING WITH OWNER.
3.	THE CONTRACTOR SHALL EFFECTIVELY PROTECT ALL MATERIALS AND EQUIPMENT FROM ENVIRONMENTAL AND PHYSICAL DAMAGE UNTIL FINAL ACCEPTANCE. CLOSE AND PROTECT ALL OPENINGS DURING CONSTRUCTION. PROVIDE NEW MATERIALS AND EQUIPMENT TO REPLACE ITEMS DAMAGED.
4.	EXISTING EQUIPMENT THAT INTERFERES WITH NEW ARRANGEMENT SHALL BE REMOVED, REINSTALLED, RELOCATED, REROUTED, EXTENDED OR ABANDONED AS REQUIRED, TO SUIT THE NEW ARRANGEMENT.
5.	WHERE BEAMS ARE INDICATED TO BE PENETRATED WITH DUCTWORK AND/OR PIPING, CAREFULLY COORDINATE SIZES AND LOCATIONS OF THE ELEMENTS BEFORE FABRICATION. COORDINATE WITH FINAL LOCATION OF BEAM PENETRATIONS AND SHEAR WALL PENETRATIONS.
6.	CONTRACTOR SHALL COORDINATE LOCATION OF ALL WALL, FLOOR AND ROOF OPENINGS WITH STRUCTURAL AND OTHER TRADES.
7.	PROVIDE CUTTING AND PATCHING AS REQUIRED AND WHERE NECESSARY TO ACCOMMODATE NEW WORK AND THE REPAIR OF EXISTING WORK.
8.	WHEN WORK INVOLVES CONTACT WITH MATERIALS CONTAINING ASBESTOS, PCB, OR OTHER TOXIC MATERIALS, NOTIFY OWNER, WHO WILL ESTABLISH PROCEDURES FOR REMEDIATION AND REMOVAL.
9.	CONTRACTOR SHALL SCHEDULE THE WORK UNDER THIS CONTRACT WITH WORK OF OTHER TRADES AS NOT TO DELAY THE OVERALL PROGRESS OF THE PROJECT.
0.	CONTRACTOR SHALL NOTIFY ARCHITECT/ENGINEER OF ANY CONFLICTS PRIOR TO PURCHASING EQUIPMENT AND PRIOR TO CUTTING OPENINGS.
1.	CONTRACTOR SHALL PROVIDE SHOP DRAWINGS PER SPECIFICATIONS PRIOR TO PURCHASING OR INSTALLING EQUIPMENT AND SYSTEMS INDICATED ON CONTRACT DOCUMENTS. PRIOR TO SUBMITTAL, CONTRACTOR SHALL VERIFY THAT ADEQUATE SPACE EXISTS FOR THE SUBMITTED EQUIPMENT. SHOP DRAWINGS MUST BE REVIEWED BY ARCHITECT/ENGINEER.
2.	CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COSTS INCURRED BY OTHER TRADES DUE TO SUBSTITUTION OF OTHER THAN SCHEDULED EQUIPMENT. WHEN EQUIPMENT FURNISHED IS DIFFERENT THAN INDICATED, THE COST OF ADDITIONAL ELECTRICAL SERVICE, STRUCTURAL AND RELATED WORK SHALL BE PAID BY THIS CONTRACTOR.
3.	ALL WORK SHALL BE EXECUTED IN A NEAT AND WORKMANLIKE MANNER AND SHALL BE DONE IN ACCORDANCE WITH GOOD TRADE PRACTICE AND IN CONFORMANCE WITH APPLICABLE MANUFACTURERS' RECOMMENDATIONS.
4.	CONTRACTOR SHALL REMOVE ALL TRASH, DEBRIS AND DEMOLITION MATERIAL FROM PREMISES AT THE END OF EACH DAY.
5.	RESTORE ALL SURFACES (WALLS, CEILINGS, FLOORS AND ROOFS) THAT ARE DAMAGED BY THE WORK OF THIS CONTRACT TO THEIR ORIGINAL CONDITION AT NO EXTRA COST TO THE OWNER.
6.	PRIOR TO EQUIPMENT STARTUP, CONTRACTOR SHALL PERFORM THE SPECIFIED STARTUP AND COMMISSIONING PROCEDURES.
7.	IN THE ABSENCE OF OTHER SPECIFIC INSTRUCTIONS, ALL WORK AND MATERIALS SUPPLIED SHALL BE GUARANTEED FOR A PERIOD OF ONE (1) YEAR FROM THE DATE OF THEIR ACCEPTANCE BY THE OWNER.

		FOR A PERIOD OF ONE (1) TEAR FROM THE DATE OF THEIR ACCEPTANCE BY THE OWNER.
	28.	BALA CONSULTING ENGINEERS, INC. (BALA) WILL PROVIDE CONTRACTOR WITH ELECTRONIC CADD FILES OF THE
NG		ENGINEERING DESIGNS FOR THE SOLE USE IN EXPEDITING SHOP DRAWINGS. BALA'S FILES SHALL NOT BE DIRECTLY
-		COPIED AND ISSUED AS SHOP DRAWINGS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL FIELD
		COORDINATION, DIMENSIONING AND ADHERENCE TO THE SHOP DRAWING REQUIREMENTS AS NOTED IN THE
		SPECIFICATIONS. SHOULD THE SHOP DRAWINGS SUBMITTED PROVE TO BE A DIRECT COPY OF OUR FILES WITHOUT
		THE NECESSARY FIELD COORDINATION, DIMENSIONING AND ADHERENCE TO THE SHOP DRAWING REQUIREMENTS AS
		NOTED IN THE SPECIFICATIONS, THESE SHOP DRAWINGS WILL BE RETURNED AS REJECTED. BALA'S ELECTRONIC
		FILES ARE CREATED IN AUTOCAD OR REVIT BASED ON THE PROJECT'S DOCUMENTATION REQUIREMENTS. BALA
		MAKES NO REPRESENTATION AS TO THE COMPATIBILITY OF THESE FILES WITH THE CONTRACTOR'S HARDWARE OR
		THEIR SOFTWARE. DATA CONTAINED ON THESE ELECTRONIC FILES ARE PART OF BALA'S "INSTRUMENTS OF
		SERVICE" AND ARE COPYRIGHTED. CONTRACTOR'S USE OF FILES IS FOR THE SOLE PURPOSE AS A CONVENIENCE IN
		THE PREPARATION OF DRAWINGS FOR THE REFERENCED PROJECT. ANY OTHER USE OR REUSE BY CONTRACTOR IS

UNLAWFUL.

COMPONENTS		OW	NER	ELECTRICA CONTRACTO		L TELECOM OR CONTRACTOR		SECURITY CONTRACTO	
	F=FURNISH; I=INSTALL	F	I	F	I	F	1	F	I
SECURITY RACEWAYS - BOX/ CONDUIT/ BUSHING/ PULL ROPE/ PULL BOX/ HANDHOLES/ J-HO	OKS					$\sim$		$\sim$	
SECURITY ACCESS CONTROL HORIZONTAL CABLING FROM FIELD DEVICES TO HEAD END		{				F			
SECURITY CCTV HORIZONTAL CABLING FROM CAMERAS TO PATCH PANEL		$\mathcal{M}$	m	m	m	μ	- T		
CCTV AND INTERCOM SYSTEM IT ROOM PATCH CORDS		F	1						
SECURITY CCTV CABLE TESTING AND LABELING						F	1		
SECURITY ACCESS CONTROL CABLE TESTING AND LABELING								F	I
SECURITY SYSTEMS NETWORK POE SWITCHES AND IP ADDRESSES		- The second se		$\sim$		$\sim$		$\sim$	
SECURITY ACCESS CONTROL, INTERCOM AND CCTV FIELD DEVICES, CONTROL PANELS AND	POWER SUPPLIES	<b>F</b>	I						
CCTV SYSTEM RECORDER, SOFTWARE AND IP CAMERA LICENSES		F		m	m	m	m		
ACCESS CONTROL SYSTEM HEAD-END SOFTWARE AND LICENSES		~F~		$\sim$	$\sim$	$\sim$		$\sim$	
SECURITY ACCESS CONTROL, INTERCOM AND CCTV TESTING/COMMISSIONING/O&M MANUA	L/AS-BUILTS	<b>F</b>							
		$\mathcal{M}$	m	m	m	m	m		

# MATRIX NOTES:

WAN WIDE AREA NETWORK WAP WIRELESS ACCESS POINT

WP WALL PHONE

THE MATRIX IS A GENERAL DIAGRAM OF SYSTEMS AND DOES NOT INCLUDE ALL PARTS AND RELATED ACCESSORIES FOR EACH COMPONENT AND SYSTEM. REFER TO RELATED SPECIFICATIONS AND DRAWINGS WITHIN T, SC AND E SERIES FOR ADDITIONAL INFORMATION AND DETAILS.

# SECURITY GENERAL NOTES

- INSTALLATION OF EQUIPMENT SHALL PERMIT ACCESSIBILITY FOR SERVICE AND REPLACEMENT. ALL CEILING-MOUNTED EQUIPMENT SHALL BE INSTALLED IN SUCH A MANNER THAT LIGHTS, PIPING, AND DUCTWORK DO NOT BLOCK ACCESS TO UNITS AND RELATED ACCESSORIES.
- 2. THE SECURITY CONTRACTOR SHALL EXAMINE THE DRAWINGS OF ALL TRADES AND COORDINATE THEIR WORK PRIOR TO ANY INSTALLATIONS TO AVOID INTERFERENCE WITH STRUCTURE, AND ALL EQUIPMENT ABOVE AND BELOW THE CEILING.
- 3. THE SECURITY CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND FIELD CONDITIONS AT THE SITE PRIOR TO BID AND PURCHASE OF EQUIPMENT/MATERIALS. THE CONTRACTOR SHALL PROVIDE VALUE FOR SAME IN THEIR BID. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY FIELD CONDITIONS AT THE SITE AND NOTIFY THE OWNER, ARCHITECT AND ENGINEER OF ANY DISCREPANCIES PRIOR TO COMMENCING WITH THE WORK.
- 4. THE SECURITY CONTRACTOR SHALL COORDINATE WITH THE GC ALL CUTTING AND PATCHING OF EXISTING CONSTRUCTION REQUIRED BY THEIR WORK. ALL FINISHES SHALL MATCH EXISTING. STRUCTURAL MEMBERS SHALL NOT BE CUT UNLESS APPROVED BY OWNER'S REPRESENTATIVE.
- THE SECURITY CONTRACTOR SHALL ARRANGE AND OBTAIN ALL PERMITS, INSPECTIONS AND APPROVALS.
   BALA MAKES NO REPRESENTATION AS TO THE COMPATIBILITY OF THESE FILES WITH THE CONTRACTOR'S HARDWARE OR THEIR SOFTWARE. DATA CONTAINED ON THESE ELECTRONIC FILES ARE PART OF BALA'S "INSTRUMENTS OF SERVICE" AND ARE COPYRIGHTED. CONTRACTOR'S USE OF FILES IS FOR THE SOLE PURPOSE AS A CONVENIENCE IN THE PREPARATION OF DRAWINGS FOR THE REFERENCED PROJECT. ANY
- OTHER USE OR REUSE BY CONTRACTOR IS UNLAWFUL.
  7. THE CONTRACTOR WILL BE REQUIRED TO SIGN AND RETURN BALA'S AUTO CADD RELEASE FORM, PRIOR TO RECEIPT OF ELECTRONIC FILES.
- 8. THE DRAWINGS FOR SECURITY WORK UTILIZE SYMBOLS AND SCHEMATIC DIAGRAMS WHICH HAVE NO DIMENSIONAL SIGNIFICANCE. THE WORK SHALL THEREFORE BE INSTALLED TO FULFILL THE DIAGRAMMATIC INTENT EXPRESSED ON THE SECURITY DRAWINGS, BUT IN CONFORMITY WITH THE DIMENSIONS INDICATED ON THE FINAL WORKING DRAWINGS, FIELD LAYOUTS, AND SHOP DRAWINGS OF ALL TRADES.
- CERTAIN DETAILS APPEAR ON THE DRAWINGS FOR SECURITY WORK WHICH ARE SPECIFIC WITH REGARD TO THE DIMENSIONING AND POSITIONING OF THE WORK. THESE ARE INTENDED ONLY FOR GENERAL INFORMATION PURPOSES. THEY DO NOT OBVIATE FIELD COORDINATION FOR INDIVIDUAL ITEMS OF THE INDICATED WORK.
- 10. DRAWINGS ARE DIAGRAMMATIC AND CERTAIN SPECIALTIES ARE NOT SHOWN, HOWEVER, THEY SHALL BE PROVIDED AS REQUIRED. ALL MEASUREMENTS SHALL BE DONE IN THE FIELD.
- 11. PRIOR TO BID, VISIT THE SITE TO BECOME FAMILIAR WITH EXISTING CONDITIONS. ALL MATERIALS AND WORKMANSHIP SHALL BE GUARANTEED FOR A MINIMUM OF 1 YEAR FOLLOWING THE DATE OF OWNER ACCEPTANCE.
- 12. AFTER ALL WORK HAS BEEN COMPLETED, CLEAN ALL PARTS OF THE INSTALLATION.
- PROVIDE ACCESS PANELS FOR DEVICES WHICH ARE CONCEALED AS A PART OF THIS INSTALLATION.
   PREPARE A RECORD SET OF PRINTS RECORDING ALL DEVIATIONS OF LOCATIONS AND EQUIPMENT. SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
- 15. EQUIPMENT IS SPECIFIED TO ESTABLISH STANDARDS. IF CONTRACTOR SUBMITS OTHER TYPES OTHER THAN SPECIFIED, AND THESE MATERIALS ALTER THE DESIGN, THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL REPLACEMENT COSTS INVOLVED.
- 16. ALL ENCLOSURES SHALL BE PROVIDED WITH TAMPER SWITCHES AND SHALL BE CONNECTED TO INPUT BOARDS ON ACCESS CONTROL SYSTEM.

# SECURITY SYSTEM SCOPE NOTES

- 1. ACCESS CONTROL SYSTEM SHALL BE AN EXTENSION OF THE EXISTING. ALL NEW READERS, INPUT SENSORS, OUTPUT RELAYS SHALL BE SEAMLESSLY INTEGRATED INTO THE EXISTING SYSTEM.
- 2. VIDEO MANAGEMENT SYSTEM SHALL BE EXTENSION OF THE EXISTING SYSTEM CURRENTLY USED AT COLLEGE. ALL NEW CAMERAS SHALL BE RECORDED ON EXISTING STORAGE INFRASTRUCTURE. ALL CAMERAS SHALL BE INTEGRATED TO BE VIEWED AT EXISTING SOC . VIDEO STORAGE INFRASTRUCTURE SHALL BE SIZED PER PROJECT REQUIREMENTS AS INDICATED IN DIV 282300 SPECIFICATIONS. 20% GROWTH VIDEO STORAGE CAPACITY SHALL BE PROVIDED FOR THIS PROJECT.
- ALL SECURITY CABLING (ACCESS CONTROL, CCTV, DURESS, INTERCOM, ETC) SHALL BE IN CONDUIT FROM DEVICE TO ACCESSIBLE CEILING. IN CEILING GC SHALL PROVIDE DEDICATED SET OF J-HOOKS FOR SECURITY CABLING PATHWAY FROM DEVICE TO SERVING TR.

SECURITY RACEWAY REQUIREMENTS GENERAL NOTES

1. SECURITY DETAILS ARE DIAGRAMMATIC AND INTENDED FOR OWNING THE SCOPE OF THE SYSTEMS AND REQUIREMENTS, ALL FINAL INSTALLATIONS SHALL BE BASED ON APPROVED SHOP DRAWINGS.

COORDINATED WITH APPROVED SHOP DRAWINGS PRIOR TO ROUGH-IN

SIZES, AND SYSTEMS ARE COORDINATED WITH ALL TRADES AND SYSTEMS.

4

STANDARDS NOTED IN SPECIFICATIONS AND CONTRACT DOCUMENTS HEREIN.

ELEVATIONS AND SCHEDULES FOR ALL FINAL MOUNTING HEIGHTS AND LOCATIONS.

4. THE SECURITY CONTRACTOR SHALL PROVIDE ALL J-HOOK SUPPORTS FOR SECURITY CABLING.

6. INSTALLATION OF ALL RACEWAYS SYSTEMS SHALL BE PROVIDED IN ACCORDANCE WITH REFERENCED

2. CONTRACTOR SHALL PROVIDE DETAILED SHOP DRAWINGS INDICATING FINAL CABLING AND CONDUIT SIZES AS

5. THE CONTRACTOR SHALL PROVIDE DETAILED COORDINATION DRAWINGS FOR SUBMITTAL TO ENSURE THAT ALL

3. PRIOR TO ROUGH-IN, CONTRACTOR SHALL REFER TO ARCHITECTURAL PLANS, REFLECTED CEILING PLANS,

# ELECTRICAL SCOPE NOTES

- EC SHALL PROVIDE WIRING FROM THE DOOR LOCK POWER SUPPLIES TO THE INSTALLED FI SUCH THAT IN THE EVENT OF FIRE ALARM SYSTEM ACTIVATION, ALL DOORS FITTED WITH E LOCKS AND FAIL-SAFE LOCKS SHALL REVERT TO FAIL-SAFE MODE OF OPERATION IN ACCOF LOCAL AHJ.
- PROVIDE A HARD-WIRED CONNECTION TO A 120 VAC, 20 AMP OPTIONAL STAND-BY CIRCUIT SECURITY FOR DOORS UTILIZING HIGH IN-RUSH CURRENT LATCH RETRACTION DEVICES AN OPERATORS AS INDICATED ON THE DRAWINGS. THE CIRCUIT CONNECTION SHALL BE PROV BOX, MOUNTED ABOVE THE CEILING, WITHIN AN ACCESSIBLE LOCATION ADJACENT TO THE
- 3. PROVIDE AN UNSWITCHED DUPLEX OUTLET CONNECTED TO A 120 VAC, 20 AMP OPTIONAL ST DEDICATED TO SECURITY IN THE SECURITY OPERATIONS CENTER AND EQUIPMENT ROOMS THE DRAWINGS. THE DUPLEX OUTLET SHALL BE FLUSH-MOUNTED WITHIN THE FLOOR BELOW AND/OR EQUIPMENT RACKS. EXACT LOCATION SHALL BE AS DIRECTED BY THE ARCHITECT OF SECURITY ROOM LAYOUTS.
- PROVIDE AN UNSWITCHED 120 VAC, 20 AMP OPTIONAL STAND-BY HARD-WIRED CIRCUIT DED FOR EACH SECURITY CONTROL PANEL AS INDICATED ON THE DRAWINGS. THE CIRCUIT WIRI WIRED INTO THE POWER SUPPLY PANELS. NO PLUG-IN CONNECTIONS SHALL BE ALLOWED.
   PROVIDE ALL THE INTERCONNECTIONS BETWEEN POWERED JUNCTION BOXES AND THE SECURITY OF THE POWER SUPPLY PANELS.
- PROVIDE SURGE SUPPRESSION, GROUNDING AND BONDING THAT WILL EFFECTIVELY PROTE LIMITS, ALL SECURITY SYSTEMS HARDWARE AND EQUIPMENT AGAINST LIGHTNING TRANSIEI EXTERNAL SWITCHING TRANSIENTS, AND OTHER SURGE TRANSIENTS THROUGHOUT THE US SYSTEM.
- ALL CONDUIT FILL SHALL NOT EXCEED 40 PERCENT OF INTERIOR CROSS SECTIONAL AREA V MORE CABLES ARE CONTAINED WITHIN A SINGLE CONDUIT.
- CABLES SHALL BE ROUTED IN CONDUIT OR OTHER SUITABLE RACEWAY SUBJECT TO ACCEP ARCHITECT.
- 9. AT LOCATIONS WHERE CABLES PASS THROUGH METAL STUDS OR DOOR FRAMES, THE CON-INSTALL A BUSHING OR GROMMET TO PREVENT DAMAGE TO THE CABLES.
- 10. ALL CONDUIT ROUTES SHALL BE SO DESIGNED TO ENSURE THAT ALL LOW VOLTAGE WIRE A MAINTAIN THE REQUIRED MINIMUM OF TWELVE-INCH (12") DISTANCE SEPARATION FROM AN CONDUCTORS OF POWER, OR CLASS 1 CIRCUIT AND SHALL NOT BE PLACED IN ANY CONDUIT RACEWAY CONTAINING THESE CONDUCTORS, AS PER NFPA 70, THE NATIONAL ELECTRICAL
- 11. THE EC SHALL AVOID SECURITY SYSTEM CONDUIT RUNS PARALLEL TO ALL AC ELECTRICAL F VOLTAGE CONDUIT OR LOW VOLTAGE WIRING THAT CROSSES OVER AC ELECTRICAL POWEF DEGREE ANGLE.
- ALL BACK BOXES PROVIDED FOR RECESSED CEILING INSTALLATION SHALL INCLUDE ADEQU. SHALL BE RATED FOR USE IN CEILINGS AND SHALL MEET OR EXCEED ALL APPLICABLE NATIO ELECTRICAL CODES.
- ALL JUNCTION BOXES DEFINED BY THE RECORD SPECIFICATION MAY BE CONCEALED BUT M ACCESSIBLE FOR SERVICE AND TESTING. SECURITY JUNCTION BOXES MAY BE RECESSED I CEILING.
- 14. ALL JUNCTION BOXES AND SMALL DEVICE ENCLOSURES BELOW THE CEILING AND EASILY AC EMPLOYEES OR THE PUBLIC SHALL BE TAMPER-PROOF, MONITORED, AND COVERED WITH S PLATE. ALL JUNCTION BOXES ABOVE CEILING LEVEL IN OCCUPIED AREAS OF THE BUILDING CONSIDERED TO BE EASILY ACCESSIBLE. ALL LOCATIONS CONTAINING SECURITY SYSTEM O THESE CONDITIONS SHALL INCORPORATE SECURE TAMPER-PROOF SCREWS OR SIMILAR AF
- NON-SECURITY SYSTEM WIRING SHALL NOT SHARE SECURITY CONDUIT.
   ALL CAMERA CABLING SHALL BE CONCEALED AND PROTECTED IN A RIGID ENCASEMENT, CO FLEX, OR SIMILAR APPROVED PASSAGES. CAMERA PLACEMENTS IN THE FIELD ARE FORBIDE UNPROTECTED AND EXPOSED CONNECTORS, POWER CABLE, AND VIDEO FEEDS. INTEGRATI PASS THE CABLING FROM THE CAMERA TO THE WALL / JUNCTION BOX WITHOUT EXPOSING POINT SHALL BE DEEMED ACCEPTABLE.
- 17. PROVIDE BACK BOX AND ASSOCIATED CONDUIT, LOCKNUTS, COUPLINGS, THREADED BUSHI FOR ALL DEVICES AS INDICATED ON DRAWINGS AND AS SPECIFIED.
- 18. THE FINAL FIELD PLACEMENT AND FIELD OF VIEW FOR EACH CAMERA LOCATION SHALL BE D SITE CONDITIONS AND FINAL OWNER REVIEW. PRIOR TO ANY CONDUIT ROUGH-IN THE CONT OBTAIN WRITTEN ACCEPTANCE OF PROPOSED PLACEMENTS FROM THE OWNER OR ITS AUT REPRESENTATIVE.

![](_page_125_Figure_45.jpeg)

![](_page_125_Figure_46.jpeg)

NOTES

- 3

- COORDINATE ALL AV DEVICE LOCATIONS PERTAINING TO WALL ELEVATION AFF. REFER TO ARCH MOUNTING REQUIREMENTS.
   ALL DEVICES SHOWN ON DRAWINGS ARE DIAGRAMMATIC IN LOCATION AND SHOWN FOR GENER.
- ONLY, UNLESS OTHERWISE NOTED. ALL DEVICES INDICATED TO BE INSTALLED IN THE SAME LO DIFFERENT ELEVATIONS SHALL BE ALIGNED VERTICALLY AND HORIZONTALLY. REFER TO ARCH FOR MOUNTING DETAILS.

	TECHNOLOGY DOCUMENTATION SCOPE									
SCOPE AREA	ARCHITECTURE	E SERIES	T SERIES	TA SERIES	SC SERIES					
IT RISER CONDUIT	RISER CAVITY DOCUMENTED ON BASE BUILDING SET	SHOWN FOR SCOPE ON BASE BUILDING SET	SHOWN FOR COORDINATION	N/A	N/A					
IT, AV, SEC CLOSET/ ROOM POWER	NOT SHOWN	SHOWN FOR SCOPE	SHOWN FOR COORDINATION	SHOWN FOR COORDINATION	SHOWN FOR COORDINATION					
IT, AV, SEC CLOSET WALL BOARD	NOT SHOWN	NOT SHOWN	SHOWN FOR SCOPE	SHOWN FOR SCOPE	SHOWN FOR SCOPE					
AV & SECURITY FIELD DEVICE POWER	SHOWN FOR LOCATION COORDINATION	SHOWN FOR SCOPE	N/A	SHOWN FOR COORDINATION	SHOWN FOR COORDINATION					
FLOOR BOXES / POKE THRUS	SHOWN FOR LOCATION COORDINATION	SHOWN FOR SCOPE (DEVICE TYPE, CONDUIT & CIRCUITING)	SHOWN FOR DATA CABLING	SHOWN FOR AV CABLING	N/A					
AV IN-WALL BOXES	SHOWN FOR HORIZONTAL LOCATION COORDINATION	SHOWN FOR CIRCUITING	SHOWN FOR DATA CABLING	SHOWN FOR VERTICAL LOCATION AND AV CABLING	N/A					
AV, IT, SEC LOW VOLTAGE CONDUIT	NOT SHOWN	SHOWN FOR CONDUIT SCOPE	SHOWN FOR DATA CABLING	SHOWN FOR AV CABLING	SHOWN FOR SECURITY CABLING AND CONDUIT SCOPE					
AV, FIELD DEVICE DATA	NOT SHOWN	N/A	SHOWN FOR DATA CABLING	SHOWN FOR COORDINATION	N/A					
SECURITY CAMERA FIELD DEVICE DATA	NOT SHOWN	N/A	SHOWN FOR DATA CABLING	N/A	SHOWN FOR COORDINATION					
AV DISPLAY WALL BLOCKING	SHOWN FOR LOCATION COORDINATION OR REFER TO AV SET	N/A	N/A	SHOWN FOR SCOPE	N/A					

	ACCESS CONTROL SYSTEM SYMBOLS	CCTV SYSTEM SYMBOLS	MISC. LEGEND / TAGS
TIRE ALARM SYSTEM ELECTROMAGNETIC ORDANCE WITH THE	CR X CARD READER X=W - WIRELESS LOCK WITH INTEGRATED CARD READER	NVR NETWORK VIDEO RECORDER/S	SYMBOL DESCRIPTION
DEDICATED TO ND AUTOMATIC DOOR	X=K - CARD READER WITH KEYPAD X=A - ALARMED EXIT (CR TO DISABLE AA ONLY) X=D - 15-SEC. DELAYED EGRESS (CR TO DISABLE AA) X=B - BIO-METRIC READER	WS CCTV WORKSTATION PC FOR VIDEO/ACS MONITORING X-Y X= QUANTITY OF LCD DISPLAYS Y= DISPLAY SIZE (IN INCHES)	SECTION STIMBLE SECTION NUMBER DRAWING NUMBER DETAIL CALLOUT SYMB
STAND-BY CIRCUIT S AS INDICATED ON	PIR PASSIVE INFRARED MOTION SENSOR - REQUEST-TO-EXIT DEVICE	S NETWORK HORN/SPEAKER FOR CCTV USE	DE TAIL NUMBER DRAWING NUMBER <u>ELEVATION SYMBOL</u> ELEVATION NUMBER
OW THE CONSOLE OR INDICATED ON	RX REQUEST-TO-EXIT CONNECTION	X CAMERA FIELD-OF-VIEW AND RESOLUTION	Image: Constraint of the second se
DICATED TO SECURITY RING SHALL BE HARD-	DC DOOR CONTACT	CEILING-MOUNTED CAMERAS	SHEET NOTE TAG
ECURITY EQUIPMENT. TECT, WITHIN TESTED ENTS, INTERNAL AND	TS TAMPER SWITCH	FIXED, VARI-FOCAL DOME CCTV CAMERA	X     REVISION NUMBER X
JSEFUL LIFE OF THE	OTS OPTICAL TURNSTILE	PANORAMIC, 180° DOME CCTV CAMERA	ELEC SYMBOLS
PTANCE BY THE	I/O ACS INPUT/OUTPUT PANEL	# #	SYMBOL DESCRIPTION STANDARD DUPLEX RECEPTAGE
ONTRACTOR SHALL	RL ACS DOOR REMOTE LOCKING/UNLOCKING	PANORAMIC, 360° DOME CCTV CAMERA	STANDARD QUADRAPLEX RECEPTACLE
AND CONDUIT NY OPEN JIT, JUNCTION BOX OR L CODE (NEC).	X=D - UNDER-DESK-MOUNTED X=C - COUNTER-MOUNTED X=W - WALL-MOUNTED XXXX DOOR TAG	PAN-TILT-ZOOM DOME CCTV CAMERA #	SPECIAL PURPOSE RECEPTAC         WITH NEMA DESIGNATION         J       JUNCTION BOX FOR DIRECT         CONNECTION POINT         C       FIRE ALARM RELAY CONTROL
- POWER. ANY LOW ER SHALL BE AT A 90- UATE ACCESS AND	EL/R ELECTRIFIED LOCK OR LATCH RETRACTION	WALL/POLE-MOUNTED CAMERAS	POWER AND FIRE ALARM DEVICES ARE SHOWN FOR COORDINATION ONLY. REFER TO POWER AND FIRE ALAR DRAWINGS FOR CIRCUITING AND OTHER INFORMATION.
IONAL AND LOCAL		# # = SEQUENTIAL NUMBER, TYP.	
INTO WALL OR	HO ELECTRIC DOOR HOLD OPEN	PANORAMIC, 180° DOME CCTV CAMERA	
ACCESSIBLE TO SUITABLE COVER S SHALL NOT BE COMPONENTS UNDER APPROVED DEVICES.	PP     ADO PUSH PLATE     DEVICES FURNISHED BY DIVISION 08. SHOWN FOR REFERENCE ONLY	PANORAMIC, 360° DOME CCTV CAMERA	
ONDUIT, ARMORED DDEN TO HAVE	PB     DOOR RELEASE PUSH BUTTON       PS     LOCAL LOCK POWER SUPPLY	PAN-TILT-ZOOM DOME CCTV CAMERA	_
TED ARMATURES THAT G THE CABLING AT ANY	TH ELECTRIC TRANSFER HINGE	INTRUSION DETECTION SYSTEM SYMBOLS	
HINGS, AND PULL ROPE	ADO AUTOMATIC DOOR OPERATOR	KP KEYPAD	
ITRACTOR SHALL	XR X-RAY INSPECTION SYSTEM	MS X DUAL TECHNOLOGY MOTION SENSOR X=W - WALL-MOUNTED X=C - CEILING-MOUNTED	
	MD WALK-THROUGH METAL DETECTOR	DB X HARD-WIRED DURESS BUTTON X=W - WALL-MOUNTED	
т	JB0 MANUFACTURER-SPECIFIC DEVICE BOX	X=D - UNDER-DESK-MOUNTED	
	JB2 4-11/16 x 3 NEMA 1 SQUARE JUNCTION BOX W/ KNOCKOUTS AND SECURITY SCREWS COVER		
	JB3 4-11/16 x 2-1/8 NEMA 1 SQUARE DEVICE BOX W/ SINGLE GANG DEVICE RING	WC WINDOW CONTACT	
	SECURITY COMMUNICATION SYSTEM	GB ACOUSTIC GLASS BREAK SENSOR	
	X BLUE LIGHT PHONE CALL POINT WITH BUILT-	ICP INTRUSION CONTROL PANEL	
ALL COM REQUEST TO	BL # IN VIDEO INTERCOM # - SEQUENTIAL NUMBER. TYPICAL X=W - WALL-MOUNTED STANCHION TYPE X=T - FREE-STANDING TOWER MOUNTED		
ONS	X=P - LIGHT-POLE MOUNTED VI X VIDEO INTERCOM STATION X=D DOOR STATION		
/OICE/DATA OUTLETS, UNO	X=M MASTER STATION IC X # VOICE-ONLY INTERCOM STATION X=D DOOR STATION X=E ELEVATOR LOBBY COMMUNICATION SYSTEM STATION		
R	X=M MASTER STATION		
	CARD READER DOOR TAG LEGEND	-	
RAL WIRING PURPOSES DCATIONS WITH HITECTURAL DRAWINGS	CR XXX DET:5/SC-032		
	DOOR DETAIL NUMBER/SHEET NUMBER		

		О	NEW IS	SUE	•	REV	REVISED ISSUE			REVISE	D, NOT ISSUE
		X	REMOV	ED FRC	)M DRA	WING S	SET			ISSUED,	NOT REVISE
DRAWING LIST - SECURITY											
DRAWING NUMBER	DRAWING TITLE		2024.04.05 - DESIGN DEVELOPMENT REVIEW	05.16.2024 - 95% CONSTRUCTION DOCUMENT REVIEW	2024.06.21 - 100% CDs ISSUED FOR PERMIT	2024.07.26 - ISSUED FOR BID	2024.08.26 - ISSUE FOR CONSTRUCTION	2024.09.25 - ADDENDUM B			
SC0.01	SECURITY LEGENDS, ABBREVIATIONS, AND GENERAL NOTES		0	•	٠	•	•	٠			
SC0.31	SECURITY - DETAILS		0	•	٠	•	•	٠			
SC2.01	SECURITY - LOWER LEVEL PLAN		0	•	٠	•		•			
SC2.02	SECURITY - LEVEL ONE PLAN		0	•	٠	•	•	•			

1

![](_page_125_Figure_53.jpeg)

![](_page_126_Figure_0.jpeg)

		LE			
SEQUENTIAL #	CAMERA TYPE	MOUNTING TYPE	HEIGHT AFF	DETAIL NUMBER	INSTALLER NOTE
LOW	RLEVEL				
G01	FIXED VARI-FOCAL	STAIR WALL	9' - 0"	4/SC0.31	
G02	FIXED VARI-FOCAL	STAIR WALL	9' - 0"	4/SC0.31	
G03	FIXED VARI-FOCAL	WALL	9' - 0"	4/SC0.31	
G04	FIXED VARI-FOCAL	WALL	9' - 0"	4/SC0.31	
G05	FIXED VARI-FOCAL	STAIR WALL	9' - 0"	5/SC0.31	
G06	FIXED VARI-FOCAL	WALL	9' - 0"	3/SC0.31	
G07	FIXED VARI-FOCAL	WALL	9' - 0"	4/SC0.31	
G08	FIXED VARI-FOCAL	WALL	9' - 0"	5/SC0.31	
FIRS	FLOOR				
101	FIXED VARI-FOCAL	INTERIOR WALL	9' - 0"	4/SC0.31	
101	FIXED VARI-FOCAL	INTERIOR WALL	9' - 0"	4/SC0.31	
102	FIXED VARI-FOCAL	INTERIOR WALL	9' - 0"	4/SC0.31	

≪((●))→

360

– CMU WALL

1" EMT CONDUIT FROM CAMERA TO NEAREST ACCESSIBLE CEILING. CAMERA SURFACE MOUNT MODEL-

SPECIFIC BACK BOX. COORDINATE REQUIREMENTS PRIOR TO ROUGH-IN.

- CCTV CAMERA MOUNTED ON CMU

STAIRWELL

3

**≪**((●))→

(())

180 FIXED PTZ

4

![](_page_126_Figure_36.jpeg)

360 180 FIXED PTZ

3 SC0.31 NTS

# PENETRATION WITH GC PRIOR TO ROUGH-IN. SECURITY VENDOR TO INSTALL PATCH CORD, LABLED ON BOTH ENDS FROM CAMERA OUTLET TO CAMERA VIA 3/4" - INTERIOR CORRIDOR OR CMU WALL

2

![](_page_126_Figure_41.jpeg)

1

CCTV CAMERA OUTLET MOUNTED IN

1. CONTRACTOR TO CONFIRM CONDUIT PATHWAY AND STAIR

CONDUIT.

ACCESSIBLE CEILING

- CCTV DOME CAMERA - REFER TO SCHEDULES AND SPECIFICATIONS FOR MORE INFORMATION

- WALL PARTITION. REFER TO

DETAILS

ARCHITECTURAL PLANS FOR

CEILING. SEE TELECOM PLANS

TERMINATE ON MALE RJ-45.

-UTP CABLE TO SERVING IT ROOM.

— SQUARE 4-11/16"x3-1/4" DEEP BACK

BOX WITH 1-GANG DEVICE PLATE

- 1" EMT CONDUIT TO NEAREST ACCESSIBLE

## - 1-1/4" CONDUIT TO SERVING ACP FINISHED CEILING \_\_\_\_ \_ \_ \_ \_ \_ \_ ΤΨΤ - AUTOMATIC DOOR OPERATOR - DOOR CONTACTS LATCH RETRACTION WITH BUILT-IN RX SWITCH ADO PUSH PAD (JB3) ∠ ADO PUSH PAD (JB3) - CARD READER (JB3) HINGE DOOR FRAME - DOOR SECURED SIDE DC DC | | TH | TH | CR PP UN-SECURED SIDE EL/R EL/R

6 SC0.31 DOUBLE ACCESS CONTROLLED DOOR WITH ELR & ADO

\_ JB1 |-

CARD

READER

(JB3)

- 1-1/4" CONDUIT TO SERVING

— 1/2" CONCEALED CONDUIT

- ELECTRIC TRANSFER HINGE

- ELECTRIFIED LOCK OR LATCH

RETRACTION WITH BUILT-IN RX

- DOOR CONTACT

SWITCH

- DOOR

- DOOR FRAME

ACP

![](_page_126_Figure_45.jpeg)

![](_page_127_Figure_0.jpeg)

# **GENERAL NOTES**

- 1. REFER TO DRAWING SC0.01 FOR SYMBOLS, ABBREVIATIONS AND GENERAL NOTES.
- 2. WHERE PRACTICAL, CABLING FOR THE SECURITY SYSTEMS DEVICES SHALL BE ROUTED ABOVE
- SUPPORTS. 3. TERMINATE CABLING FROM EACH SECURITY DEVICE IN THE LOWER LEVEL IDF LOCATION,

ROOM GT01.

![](_page_127_Figure_7.jpeg)

![](_page_128_Figure_0.jpeg)

![](_page_128_Figure_1.jpeg)

4

2

5

# **GENERAL NOTES**

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![](_page_128_Figure_7.jpeg)

ABBREVIATIONS	GENERAL NOTES	CODES AND STANDARDS			TELEC	OMMUNICATION	IS SYMBOLS			
(BP) BLANK PLATE (E) EXISTING ITEM	1. THE WORK TO BE DONE UNDER THESE SPECIFICATIONS AND THE DRAWINGS CONSISTS OF PROVIDING ALL FOLLIPMENT, MATERIALS, LABOR AND SERVICES AND PERFORMING ALL OPERATIONS TO COMPLETE THE	ANSI/TIA-568.0-E: GENERIC TELECOMMUNICATIONS CABLING FOR CUSTOMER PREMISES: MARCH 2020	SYMBOL DESCRIPT	TION	CABLE TYPE AND QUANTITY	BACK BOX			CONDUIT	NOTES
<ul> <li>(ED) EXISTING ITEM TO BE DEMOLISHED</li> <li>(ER) EXISTING ITEM TO BE RELOCATED</li> <li>(N) NEW ITEM</li> <li>(PL) EXISTING ITEM PELOCATED</li> </ul>	CONSTRUCTION WORK FOR THIS PROJECT. ANY WORK NOT SPECIFICALLY COVERED BY THESE SPECIFICATIONS OR INDICATED ON THE CONTRACT DRAWINGS, BUT NECESSARY TO COMPLETE OR PERFECT ANY PART OF THIS INSTALLATION IN A SUBSTANTIAL MANNER, SHALL BE PROVIDED WITHOUT EXTRA COST TO THE OWNER.	<ul> <li>ANSI/TIA-568.1-E: COMMERCIAL BUILDING TELECOMMUNICATIONS CABLING: MARCH 2020</li> <li>ANSI/TIA-568.2-D: BALANCED TWISTED-PAIR TELECOMMUNICATIONS CABLING AND COMPONENTS STANDARD: SEPTEMBER 2018</li> </ul>	# (+) WALL DAT	TA OUTLET	CATEGORY 6 UTP	5-SQUARE BOX WIT	TH 2-GANG MUDRING		(1) 1-1/4" EMT	1, 19
(RL)       EXISTING ITEM RELOCATED         AC       ALTERNATING CURRENT         ACT       ACOUSTICAL CEILING TILE         ADA       AMERICANS WITH DISABILITIES ACT	2. THE WORK SHALL CONFORM TO THE MORE STRINGENT OF ALL APPLICABLE CODES & REGULATIONS, UL AND FM GUIDELINES (AS APPLICABLE), MANUFACTURER'S LITERATURE AND RECOMMENDATIONS, BUILDING OPERATOR'S REQUIREMENTS, AND TO THE REQUIREMENTS OF FEDERAL, STATE AND LOCAL REGULATORY AGENCIES AND	ANSI/TIA-568.3-D: OPTICAL FIBER CABLING COMPONENTS: OCTOBER 2016	# F MODULAR OUTLET	R FURNITURE DATA	CATEGORY 6 UTP	COORDINATE WITH	I FURNITURE SYSTEMS		N/A	1
AFF ABOVE FINISHED FLOOR AHJ AUTHORITY HAVING JURISDICTION ANSI AMERICAN NATIONAL STANDARDS INSTITUTE	<ol> <li>THE DRAWINGS ARE DIAGRAMMATIC IN NATURE AND INDICATE THE EXTENT, GENERAL CHARACTER, LOCATION AND</li> </ol>	ANSI/TIA-505-E: TELECOMMUNICATIONS FATHWATS AND SPACES. MAT 2019     ANSI/TIA-606-C: ADMINISTRATION STANDARD FOR TELECOMMUNICATIONS INFRASTRUCTURE: JUNE 2017	TV WALL DAT	TA/TV OUTLET	(3) CATEGORY 6 UTP	5-SQUARE BOX WIT	TH 2-GANG MUDRING		(1) 1-1/4" EMT	1 19
AV AUDIOVISUAL AVC AUDIOVISUAL CONTRACTOR AWG AMERICAN WIRE GAUGE	ARRANGEMENT OF THE WORK UNDER THIS CONTRACT. [EXACT LOCATIONS OF ALL COMPONENTS ARE TO BE DETERMINED IN THE FIELD AND BY THE ACTUAL BUILDING CONDITIONS.] WHERE JOB CONDITIONS REQUIRE MINOR CHANGES OR ADJUSTMENTS IN THE INDICATED LOCATIONS OR ARRANGEMENT OF THE WORK, SUCH CHANGES SHALL BE PROVIDED WITHOUT EXTRA COST. THE CONTRACTOR SHALL RE-INSTALL EQUIPMENT THAT HAS INADEQUATE OR	<ul> <li>ANSI/TIA-607-D: GENERIC TELECOMMUNICATIONS BONDING AND GROUNDING (EARTHING) FOR CUSTOMER PREMISES: JULY 2019</li> <li>FCC TITLE 47 FEDERAL COMMUNICATIONS COMMISSION</li> </ul>		M DATA OUTLET	(1) CATEGORY 6 UTP	COORDINATE WITH BACK BOX REQUIRI	I SECURITY CONTRACTOR FOR EMENTS		(1) 1-1/4" EMT	10
BCBONDING CONDUCTORBDFBUILDING DISTRIBUTION FRAMEBEFBUILDING ENTRANCE FACILITY	<ul> <li>UNSAFE ACCESSIBILITY.</li> <li>4. INSTALLATION OF WORK SHALL PROVIDE REASONABLE ACCESSIBILITY FOR OPERATION, INSPECTION AND MAINTENANCE OF FOLLEMENT AND ACCESSIONER, PROVIDE OF FOLLEMENT AND ACCESSION FOLLOW FOLLY AND ACCESSION FOLLOW FOLLY AND ACCESSION FOLLOW FOLLY AND ACCESSION FOLLOW FOLLY AND ACCESSION FOLLY AND ACCESSION FOLLOW FOLLOW FOLLY AND ACCESSION FOLLOW FOLLOW</li></ul>	<ul> <li>PART 15 RADIO FREQUENCIES DEVICES</li> <li>PART 68 CONNECTION OF TERMINAL EQUIPMENT TO TELEPHONE NETWORK</li> </ul>	ACP ACCESS C	CONTROL PANEL TLET	(2) CATEGORY 6 UTP	COORDINATE WITH BACK BOX REQUIRI	I SECURITY CONTRACTOR FOR EMENTS		(1) 1-1/4" EMT	10
BICSI BUILDING INDUSTRY CONSULTING SERVICE INTERNATIONAL BLDG BUILDING	APPLICABLE CODES. ALL CEILING MOUNTED EQUIPMENT SHALL BE INSTALLED IN SUCH A MANNER THAT LIGHTS, PIPING, AND DUCTWORK DO NOT BLOCK ACCESS TO EQUIPMENT AND RELATED ACCESSORIES.	<ul> <li>NFPA 780: STANDARD FOR THE INSTALLATION OF LIGHTNING PROTECTION SYSTEMS</li> <li>NFPA 70: NATIONAL ELECTRICAL CODE, ARTICLES:</li> </ul>	FACP FIRE ALAF DATA OUT	RM CONTROL PANEL TLET	(2) CATEGORY 6 UTP	COORDINATE WITH BACK BOX REQUIRI	I FIRE ALARM CONTRACTOR FOR EMENTS		(1) 1-1/4" EMT	16
BTU BRITISH THERMAL UNIT C CONDUIT CATV CABLE TELEVISION	5. THE TERM "FURNISH" SHALL MEAN TO OBTAIN AND SUPPLY TO THE JOB SITE. THE TERM "INSTALL" SHALL MEAN TO FIX IN POSITION AND CONNECT FOR USE. THE TERM "PROVIDE" SHALL MEAN TO FURNISH AND INSTALL. THE TERM "MECHANICAL WORK", "ELECTRICAL WORK", "PLUMBING WORK", ETC. SHALL MEAN ALL LABOR, MATERIAL, EQUIPMENT, SCAFFOLDING. RIGGING. TOOLS. SUPERVISION. SERVICES AND OTHER INCIDENTALS NECESSARY FOR COMPLETE AND	<ul> <li>250 GROUNDING AND BONDING</li> <li>318 CABLE TRAYS</li> <li>770 OPTICAL FIBER CABLES</li> </ul>	FLOOR BC	OX DATA OUTLET	CATEGORY 6 UTP	REFER TO ELECTRI BOX TYPE	ICAL DRAWINGS FOR FLOOR		(1) 1-1/2" EMT	1
CER COMPUTER EQUIPMENT ROOM CM CONSTRUCTION MANAGER CMP COMMUNICATIONS MULTIPURPOSE PLENUM	<ul> <li>OPERABLE INSTALLATION.</li> <li>6. THE CM/GC SHALL MAKE SETS OF THE BID DOCUMENTS CONSISTING OF COMPLETE SETS OF DRAWINGS AND SPECIFICATIONS: AND ISSUE THEM TO FACH OF THE DRIVE AND SUB CONTRACTORS. EVERY PRIME AND SUB</li> </ul>	<ul> <li>800 GENERAL REQUIREMENTS FOR COMMUNICATIONS SYSTEM</li> <li>820 COMMUNITY ANTENNA, TELEVISION AND RADIO DISTRIBUTION SYSTEMS</li> </ul>	FF WALL FUR	RNITURE FEED	MAXIMUM 20 CATEGORY 6 CABLES PER FEED LOCATION	5-SQUARE BOX WIT	TH 2-GANG MUDRING		(1) 2" EMT	6
CMR COMMUNICATIONS MULTIPURPOSE RISER CO CENTRAL OFFICE CPU CENTRAL PROCESSING UNIT	CONTRACTORS, AND ISSUE THEM TO EACH OF THE PRIME AND SUB-CONTRACTORS. EVERY PRIME AND SUB- CONTRACTOR ON EACH BIDDING TEAM SHALL RECEIVE COMPLETE SETS OF DRAWINGS AND SPECIFICATIONS. THERE ARE NOTES AND CROSS REFERENCES FOR VARIOUS TRADE CONTRACTORS IN MULTIPLE TRADE OR DISCIPLINE DRAWINGS AND SPECIFICATIONS, THUS, EACH CONTRACTOR IS TO RECEIVE COMPLETE SETS OF THE BID		FF FLOOR FU	URNITURE FEED	MAXIMUM 20 CATEGORY 6 CABLES PER FEED LOCATION	REFER TO ELECTRI BOX TYPE	ICAL DRAWINGS FOR FLOOR		(1) 2" EMT	6
DWG DRAWING(S) E ELECTRICAL EC ELECTRICAL CONTRACTOR	DOCUMENTS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN THESE DRAWINGS FROM CM/GC. EACH CONTRACTOR IS RESPONSIBLE FOR THEIR WORK, AS NOTED ON THE OTHER DISCIPLINE DOCUMENTS. BIDDERS ARE RESPONSIBLE FOR ALL COSTS FOR EACH SET OF BID DOCUMENTS REQUESTED.	TELECOMMUNICATIONS WARRANTY NOTES	CEILING D WIRELESS	DATA OUTLET FOR S ACCESS POINT	(2) CATEGORY 6 UTP	5-SQUARE BOX WIT	TH 2-GANG MUDRING		(1) 1-1/4" EMT	3, 12, 13
EMI ELECTROMAGNETIC INTERFERENCE EMR ELEVATOR MACHINE ROOM EMT ELECTRICAL METALLIC TUBING	7. CONTRACTOR IS RESPONSIBLE FOR PROVIDING A FULL COORDINATION EFFORT IN ORDER TO CREATE A FINALIZED COORDINATED LAYOUT OF ALL EQUIPMENT, SYSTEMS, DUCTWORK, PIPING AND ALL OTHER ITEMS WITHIN THEIR RESPECTIVE SCOPE. THE CONTRACTOR'S COORDINATION EFFORT SHALL INCLUDE COORDINATED INFORMATION EFFORT SHALL INCLUDE COORDINATED INFORMATION	1. THE TC SHALL PROVIDE A MINIMUM 20 YEAR MANUFACTURER'S SYSTEM WARRANTY FOR ALL CABLING SYSTEMS INSTALLED AS PART OF THIS PROJECT.	WALL DAT	TA OUTLET FOR S ACCESS POINT	(2) CATEGORY 6 UTP	5-SQUARE BOX WIT	TH 2-GANG MUDRING		(1) 1-1/4" EMT	2, 12
EQUIP EQUIPMENT FACP FIRE ALARM CONTROL PANEL FF FURNITURE FEED	BETWEEN TRADE CONTRACTOR'S INVOLVED IN THE PROJECT SCOPE IN ORDER TO PROVIDE COORDINATION BETWEEN TRADES AND ALL EXISTING CONDITIONS. ALL ERRORS MADE AS A RESULT OF A LACK OF COORDINATION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND CORRECTED AT NO ADDITIONAL COST TO THE PROJECT. MINOR RELOCATIONS AND SHIFTS OF EQUIPMENT, DUCTWORK, AND PIPING WHICH DO NOT CHANGE THE DESIGN	<ol> <li>WARRANTY PAPER WORK MUST BE SUBMITTED TO MANUFACTURER PRIOR TO PAYMENT OF FINAL INVOICE.</li> <li>ALL MATERIALS AND WORKMANSHIP SHALL BE GUARANTEED BY THE CONTRACTOR FOR A MINIMUM OF 1</li> </ol>		DATA OUTLET	CATEGORY 6 UTP	5-SQUARE BOX WIT	TH 2-GANG MUDRING		(1) 1-1/4" EMT	1, 3
FO FIBER OPTIC FT FEET FTP FOILED TWISTED PAIR	INTENT INDICATED ON THE CONTRACT DOCUMENTS, REQUIRED TO ACCOMMODATE FIELD CONDITIONS ARE AT THE CONTRACTORS DISCRETION AND DO NOT REQUIRE ENGINEER APPROVAL.	<ol> <li>ALE MARTERIALD AND WORKEN ROTATION OF ALL DE CONTACTEED DE THE CONTACTORY OF ALMANIMUM OF A YEAR FOLLOWING THE DATE OF OWNER ACCEPTANCE.</li> <li>IN ADDITION, PROVIDE UNIT PRICING TO PROVIDE CABLING TO EACH TYPE OF OUTLET SHOWN ON THE THE PROVIDE OF ALMAN OF A HEAD ON A HEAD OF A HEAD O</li></ol>	DATA OUT SCHEDULI	TLET FOR ROOM LER	(1) CATEGORY 6 UTP	5-SQUARE BOX WIT	TH 2-GANG MUDRING		(1) 1-1/4" EMT	5, 19
G, GND GROUND GC GENERAL CONTRACTOR HH HAND HOLE	9. THE DRAWINGS INDICATE APPROXIMATE LOCATIONS BASED UPON INFORMATION OBTAINED WITHOUT REMOVING	TELECOMMUNICATIONS SYMBOLS SECTION OF THIS DRAWING.	WALL PHC	ONE	(1) CATEGORY 6 UTP	5-SQUARE BOX WIT	TH 1-GANG MUDRING		(1) 1-1/4" EMT	<u>(19</u> )
IDF INTERMEDIATE DISTRIBUTION FRAME IEEE INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS	ADDRESS CONFLICTS BETWEEN DESIGN AND EXISTING CONDITIONS. ANY CHANGES AND/OR MODIFICATIONS MUST BE REVIEWED AND APPROVED BY THE ENGINEER AND/OR OWNER'S REPRESENTATIVE PRIOR TO CONSTRUCTION.	<ol> <li>TC SHALL EXAMINE THE DRAWINGS OF ALL TRADES AND COORDINATE THEIR WORK PRIOR TO ANY INSTALLATIONS TO AVOID INTERFERENCE WITH STRUCTURE, AND ALL EQUIPMENT ABOVE AND BELOW THE CEILING.</li> </ol>	2WAY 2-WAY CO		22-24 AWG TWISTED PLENUM IC CABLE	5-SQUARE BOX WIT	TH 2-GANG MUDRING		(1) 1-1/4" EMT	<b>6</b> , 19
ISO INTEGRATED STANDARDS ORGANIZATION JB JUNCTION BOX LAN LOCAL AREA NETWORK	10. FOR ANY DISCREPANCY BETWEEN DRAWINGS AND/OR SPECIFICATIONS, THE CONTRACTOR SHALL BASE THEIR BID UPON THE MOST STRINGENT REQUIREMENT (QUALITY, QUANTITY, SIZE, ETC.). THE CONTRACTOR SHALL IDENTIFY DISCREPANCIES AS PART OF THEIR BID.	2. TC SHALL VERIFY ALL DIMENSIONS AND FIELD CONDITIONS AT THE SITE PRIOR TO BID AND PURCHASE OF EQUIPMENT/MATERIALS. THE CONTRACTOR SHALL PROVIDE VALUE FOR SAME IN THEIR BID. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY FIELD CONDITIONS AT THE SITE AND NOTIFY THE OWNER.	CEILING D DEVICE	DATA OUTLET FOR SECURITY	(1) CATEGORY 6 UTP	N/A			N/A	15
MAX MAXIMUM MDF MAIN DISTRIBUTION FRAME MFG MANUFACTURER	11. PRIOR TO DEMOLITION, THE CONTRACTOR SHALL LOG ALL EXISTING EQUIPMENT AND TRACE ELECTRICAL, FIRE ALARM, AND CONTROL CIRCUITS THAT SERVE SUCH EQUIPMENT.	<ul> <li>ARCHITECT AND ENGINEER OF ANY DISCREPANCIES PRIOR TO COMMENCING WITH THE WORK.</li> <li>3. THE DRAWINGS FOR TELECOMMUNICATIONS WORK UTILIZE SYMBOLS AND SCHEMATIC DIAGRAMS WHICH HAVE NO DIMENSIONAL COMPLEXANCES. THE WORK OWALL THERE FOR FOR TALL FOR THE DIAGRAMS WHICH HAVE NO DIMENSIONAL COMPLEXANCES. THE WORK OWALL THERE FOR FOR TALL FOR THE DIAGRAMS WHICH HAVE NO DIMENSIONAL COMPLEXANCES. THE WORK OWALL THERE FOR FOR TALL FOR THE DIAGRAMS WHICH HAVE NO DIMENSIONAL COMPLEXANCES. THE WORK OWALL THERE FOR FOR TALL FOR THE DIAGRAMS WHICH HAVE NO DIMENSIONAL COMPLEXANCES. THE DIAGRAMS WHICH HAVE NO DIMENSIONAL COMPLEXANCES. THE DRAWNER FOR THE DIMENSION DIMENSION DIMENSION DIMENSIONAL COMPLEXANCES. THE DIMENSION DIMENSION</li></ul>	SC (+) WALL DAT V DEVICE	TA OUTLET FOR SECURITY	(1) CATEGORY 6 UTP	5-SQUARE BOX WIT	TH 1-GANG MUDRING		(1) 1-1/4" EMT	2, 1, 19
MIN MINIMUM MISC MISCELLANEOUS N/A NOT APPLICABLE	<ol> <li>ALL SERVICES TO EXISTING BUILDINGS SHALL BE MAINTAINED DURING CONSTRUCTION UNLESS OTHERWISE INDICATED. CONTRACTOR SHALL COORDINATE ALL SYSTEM SHUT DOWNS AND TIMING WITH OWNER.</li> <li>THE CONTRACTOR SHALL EFFECTIVELY PROTECT ALL MATERIALS AND EQUIPMENT FROM ENVIRONMENTAL AND</li> </ol>	DIMENSIONAL SIGNIFICANCE. THE WORK SHALL THEREFORE BE INSTALLED TO FULFILL THE DIAGRAMMATIC INTENT EXPRESSED ON THE COMMUNICATIONS DRAWINGS, BUT IN CONFORMITY WITH THE DIMENSIONS INDICATED ON THE FINAL WORKING DRAWINGS, FIELD LAYOUTS, AND SHOP DRAWINGS OF ALL TRADES.	EMPTY BA CABLING	ACK BOX FOR FUTURE	N/A	5-SQUARE BOX WIT	TH 2-GANG MUDRING		(1) 1-1/4" EMT	<b>e</b> , 19 <b>}</b>
NEC NATIONAL ELECTRIC CODE NEXT NEAR END CROSS TALK NIC NOT IN CONTRACT	PHYSICAL DAMAGE UNTIL FINAL ACCEPTANCE. CLOSE AND PROTECT ALL OPENINGS DURING CONSTRUCTION. PROVIDE NEW MATERIALS AND EQUIPMENT TO REPLACE ITEMS DAMAGED.	4. CERTAIN DETAILS APPEAR ON THE DRAWINGS FOR TELECOMMUNICATIONS WORK WHICH ARE SPECIFIC WITH REGARD TO THE DIMENSIONING AND POSITIONING OF THE WORK. THESE ARE INTENDED ONLY FOR GENERAL INFORMATION PURPOSES. THEY DO NOT OBVIATE FIELD COORDINATION FOR INDIVIDUAL ITEMS OF THE INDICATED WORK.		CEILING TV OUTLET	(3) CATEGORY 6 UTP (1) RG-6 QUAD-SHIELD COAX	N/A			N/A	17
NO. OR # NOMBER NTS NOT TO SCALE NVR NETWORK VIDEO RECORDER	<ol> <li>EXISTING EQUIPMENT THAT INTERFERES WITH NEW ARRANGEMENT SHALL BE REMOVED, REINSTALLED, RELOCATED, REROUTED, EXTENDED OR ABANDONED AS REQUIRED, TO SUIT THE NEW ARRANGEMENT.</li> <li>WHERE BEAMS ARE INDICATED TO BE PENETRATED WITH DUCTWORK AND/OR PIPING, CAREFULLY COORDINATE</li> </ol>	5. THE TC SHALL TERMINATE HORIZONTAL CATEGORY 6 UTP CABLING ONTO CORRESPONDING TERMINATION BLOCKS LOCATED IN EXISTING TELECOMMUNICATIONS ROOM.	1. "#" REPRESENTS THE NUMBER OF     2. "+" REPRESENTS A NON-STANDAF     3. ALL CABLING TO CEILING -MOUNT	F CABLES TO BE TERMINATED C RD MOUNTING HEIGHT. VERIFY TED DEVICES LOCATED IN EXPO	ON SPECIFIED JACK INSERTS AT THE OUTLET LOCATION MOUNTING HEIGHT WITH OWNER AND ARCHITECT BEFO DSED CEILING AREAS SHALL BE INSTALLED IN EMT COND	RE INSTALLATION. UIT WITH A SQUARE BACK BOX (	(FURNISHED AND INSTALLED BY TI	HE ELECTRICAL CONTRA	ACTOR). CEILING OUTLET BACK BOX SHALL B	3E COORDINATED WITH CEILING
OC ON CENTER OD OUTSIDE DIAMETER OFCP OPTICAL FIBER CONDUCTIVE PLENUM	SIZES AND LOCATIONS OF THE ELEMENTS BEFORE FABRICATION. COORDINATE WITH FINAL LOCATION OF BEAM PENETRATIONS AND SHEAR WALL PENETRATIONS.	6. TERMINATE HORIZONTAL RG-6/11 COAXIAL CABLE AT BOTH ENDS USING THE SPECIFIED COMPRESSION F-TYPE CONNECTORS. THESE CABLES WILL BE CONNECTED TO ACTIVE AND PASSIVE ELECTRONICS THAT WILL BE PROVIDED BY OTHERS.	<ul> <li>TYPE. REFER TO OUTLET DETAILS</li> <li>4. COORDINATE WITH AV CONTRACT</li> <li>5. REFER TO DIVISION 27 SPECIFICA</li> </ul>	S FOR BACK BOX REQUIREMENT CTOR FOR TABLETOP CONNECTION ATIONS SECTIONS.	TS. ONS.					
OFCR OPTICAL FIBER CONDUCTIVE RISER	16. CONTRACTOR SHALL COORDINATE LOCATION OF ALL WALL, FLOOR AND ROOF OPENINGS WITH STRUCTURAL AND				SPACES FOR ALL DATA CADLING REQUIREMENT FROM	LUOR LUCATION TO NEAREST V	WALL AND STUDDED INTO ACCESS	SIDLE CEILING SPACE.		
OFE OWNER FURNISHED EQUIPMENT OFNP OPTICAL FIBER NON CONDUCTIVE PLENUM	OTHER TRADES.	<ol> <li>THE TC SHALL INCLUDE ALL LABOR AND MATERIAL FOR A COMPLETE TURNKEY STRUCTURED CABLING SYSTEM AS SHOWN ON TELECOMMUNICATIONS DRAWINGS AND SPECIFICATIONS.</li> </ol>	<ol> <li>EC TO PROVIDE CONTINUOUS EM</li> <li>CEILING OUTLET BACK BOX SHAL</li> <li>ALL CABLING SHALL BE PLENUM F</li> <li>MOUNTING HEIGHTS FOR WALL P</li> </ol>	LL BE COORDINATED WITH CEILI RATED (UL-LISTED CMP), UON. PHONES AND ROOM SCHEDUI FE	ING TYPE. REFER TO OUTLET DETAILS FOR BACK BOX RI	QUIREMENTS.				
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IF THERE WILL BE WORK CONDUCTED OUT OF SEQUENCE, INCLUDE ALL "OFF-HOURS" WORK WITHIN FINAL PRICING.</li> <li>THE TC SHALL INOTALI ALL WIRELESS ACCESS POINT DEVICES AND WIRELESS ACCESS POINT ENCLOSURES SELECTED AND PROVIDED BY OWNER.</li> <li>THE TC SHALL BOND ALL TELECOMMUNICATIONS PASSIVE EQUIPMENT WITH MINIMUM 6-AWG STRANDED INSULATED COPPER GROUND WIRE TERMINATED WITH 2HOLE COMPRESSION LUGS.</li> <li>PROVIDE COMPUTER-GENERATED LABELING WITHIN 6" OF EACH CABLE END AND EACH PATCH CORD. 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IF THERE WILL BE WORK CONDUCTED OUT OF SEQUENCE, INCLUDE ALL 'OFF-HOURS' WORK WITHIN FINAL PRICING.</li> <li>THE TC SHALL DOND ALL TELECOMMUNICATIONS PASSIVE EQUIPMENT WITH MINIMUM 6-AWG STRANDED INSULATED COPPER GROUND WIRE TERMINATED WITH 2:HOLE COMPRESSION LUGS.</li> <li>PROVIDE COMPUTER-GENERATED LABELING WITHIN 6' OF EACH CABLE END AND EACH PATCH CORD. COORDINATE LABELING FORMAT WITH OWNER.</li> <li>THE TC SHALL DOND ALL TELECOMMUNICATIONS OUTLET WHOSE CABLE IS TERMINATED IN THAT ROOM.</li> <li>THE TC SHALL MOVIDE ALL FLACEMANY SOL MUST THE NOOM.</li> <li>THE TC SHALL MOVIDE ALL ABELING WITHIN 6' OF EACH CABLE END AND EACH PATCH CORD. COORDINATE LABELING FORMAT WITH OWNER.</li> <li>THE TC SHALL DROVIDE ALL CABLE SUPPORTS FOR ALL TELECOMMUNICATION SCABLING.</li> <li>THE TC SHALL MOVIDE ALL MANTED ALS BUILT FLOOR PLAN IN ACCONTRAC</li></ol>	6. EC TO PROVIDE CONTINUOUS EM 7. CEILING OUTLET BACK BOX SHAL 8. ALL CABLING SHALL BE PLENUM F 9. MOUNTING HEIGHTS FOR WALL P 10. 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COORDINATE LABELING FORMAT WITH OWNER.</li> <li>THE TC SHALL PROVIDE CABLE TRAY LOCATED SUITER WIGSE CABLE IS TERMINISTED IN THAT HOW.</li> <li>THE TC SHALL PROVIDE CABLE TRAY LOCATED NOTHER VERTICATIONS.</li> <li>THE TC SHALL PROVIDE CABLE TRAY LOCATED IN THE TECHNOLOGY DISTRIBUTION ROOMS, AS SHOWN AND DESIGNATION OF EACH TELECOMMUNICATIONS DRAWINGS AND SPECIFICATIONS.</li> <li>THE TC SHALL PROVIDE CABLE TRAY LOCATED IN THE TECHNOLOGY DISTRIBUTION ROOMS, AS SHOWN AND SPECIFIED IN THE TELECOMMUNICATIONS DRAWINGS AND S</li></ol>	<ul> <li>6. EC TO PROVIDE CONTINUOUS EM</li> <li>7. CEILING OUTLET BACK BOX SHAL</li> <li>8. ALL CABLING SHALL BE PLENUM F</li> <li>9. MOUNTING HEIGHTS FOR WALL P</li> <li>10. REFER TO SECURITY DRAWINGS I</li> <li>11. REFER TO TABLE ON DETAILS SH</li> <li>12. WIRELESS ACCESS POINT FURNIS</li> <li>13. FOR WAP OUTLETS IN ACT CEILING</li> <li>14. COORDINATE ALL DATA OUTLET CABL</li> <li>15. COORDINATE ALL DATA CABLING,</li> <li>16. REFER TO FIRE ALARM DRAWING</li> <li>17. PROVIDE 10' SERVICE LOOP COILING UTLET CABLE</li> <li>18. OUTLET, TOBE-INSTALLED ADVE</li> <li>19. MUDRING FOR SURFACE-MOUNT</li> <li>19. MUDRING FOR SURFACE-MOUNT</li> <li>10. CONTEST</li> <li>10. CONTEST</li> <li>11. COORDINATE ALL AV DEVICE LO</li> <li>12. ALL DEVICES SHOWN ON DRAWI</li> <li>PURPOSES ONLY, UNLESS OTHE</li> <li>WITH DIEEEDENT FLETURDONCO</li> </ul>	DCATIONS PERTAINING TO WALL S. VINGS ARE DIAGRAMMATIC IN LC LC CATIONS PERTAINING TO WALL S. CATIONS PERTAINING TO WALL	ING TYPE. REFER TO OUTLET DETAILS FOR BACK BOX RUSS SHALL BE ADA COMPLIANT. ING DETAILS. COORDINATE SPECIFIED JACK INSERT AND TELECOMMUNICATIONS CONTRACTOR. RFACE MOUNTED BOX. SEE DETAILS FOR ADDITIONAL IN DEXACT LOCATION OF EACH DEVICE WITH SECURITY CONTRA- TING DETAILS. COORDINATE SPECIFIED JACK INSERT AND BELED FOR FUTURE INSTALLATION. FEVENDED TO DEDUAL DESATION O SHALL BE 1/4" RISE, NOT FLUSH. 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IF THERE WILL BE WORK CONDUCTED OUT OF SEQUENCE, INCLUDE ALL "OFF-HOURS WORK WITHIN HAL PROLING.</li> <li>THE TC SHALL BOON ALL TELECOMMUNICATIONS PASSIVE EQUIPMENT WITH MINIMUM 6 AWG STRANDED INSULATED COPPER GROUND WIRE TERMINATED WITH 2 HOLE COMPRESSION LUGS.</li> <li>THE TC SHALL BOON ALL TELECOMMUNICATIONS PASSIVE EQUIPMENT WITH MINIMUM 6 AWG STRANDED INSULATED COPPER GROUND WIRE TERMINATED WITH 2 HOLE COMPRESSION LUGS.</li> <li>THE TC SHALL BOON ALL TELECOMMUNICATIONS PASSIVE FOUR FLEW THATE IN THAT ROOM.</li> <li>THE TC SHALL MOUNT A LAMINATED ASBUILT FLOOR PLAN IN EACH TR LOCATION THAT SHOWS THE LOCATION AND DESIGNATION OF EACH TELECOMMUNICATIONS OUTLET WHOSE CABLE IS TERMINATED IN THAT ROOM.</li> <li>THE TC SHALL PROVIDE ALL JAHOUK CABLE SUPPORTS FOR ALL TELECOMMUNICATIONS CABLING.</li> <li>THE TC SHALL PROVIDE ALL FARL COMPARIS FOR TELECOMMUNICATIONS WORK, INCLUDING COMPUTER MANUTH POWER.</li> <li>THE ECENTRICAL PROVIDE ALL ARCEWAYS FOR TELECOMMUNICATIONS WORK, INCLUDING COMUNITS AND INTERDUCTIVE TRAY LOCATED THAT THE TECHNOLOGY DISTRUBUTION NOOMS, AS SHOWN AND SPECIFIED IN THE TELECOMMUNICATIO</li></ol>	6. 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MOUNTING HEIGHTS FOR WALL P 10. REFER TO TABLE ON DETAILS SHI 12. WIRELESS ACCESS POINT FURNIS 13. FOR WAP OUTLETS IN ACT CEILING 14. COORDINATE ALL DATA CABLING, 15. COORDINATE ALL DATA CABLING, 16. REFER TO FIRE ALARM DRAWING 17. PROVIDE 10' SERVICE LOOP COLL 19. MUDRING FOR SURFACE-MOUNT 19. MUDRING FOR SURFACE-MOUNT 10. CENTERLINE BETWEEN DOOR AND CEILING LINE 4'-0" - 3'-6" - 1' 6" - 0'-0" - NOTES: 1. COORDINATE ALL AV DEVICE LO FOR MOUNTING REQUIREMENTS 2. ALL DEVICES SHOWN ON DRAWN PURPOSES ONLY, UNLESS OTHE WITH DIFFERENT ELEVATIONS 2. ALL DEVICES SHOWN ON DRAWN PURPOSES ONLY, UNLESS OTHE WITH DIFFERENT ELEVATIONS CARWINGS FOR MOUNTING DET GY DOCUMENTA 6. ESERIES TS	DCATIONS PERTAINING TO WALL SHELL BE ALIGNED VITA CETTOR SAME DIAGRAMMATIC IN LO SHOULS AND ROOM SCHEDULEF FOR DEVICE TYPE AND MOUNT HEET FOR CONDUIT FILL CAPACI SHED BY OWNER, INSTALLED BY NG - TERMINATIC ADDESAC SFOR DEVICE TYPE AND MOUN ED IN CEILING BAGGED AND LAU CEFHNG WITH A - 1/0" SOMDUT LOCATIONS (I.E. 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WHEN WORK INVOUSS CONTACT WITH MATERIALS CONTAINING ASSESTOS, DOR, OR OTHER TOXIC MATERIALS, NOTIFY OWNER, WHO WILL ESTABLISH PROCEDURES FOR REMEMUTION AND REMOVAL.  CONTRACTOR SHALL SCHEDULE THE WORK INDER THIS CONTAINING ASSESTOS, DOR, OR OTHER TOXIC MATERIALS, CONTRACTOR SHALL SCHEDULE THE WORK INDER THIS CONTAINING ASSESTOS, DOR, OR OTHER TRADES AS NOT TO DELAY THE OVERALL PROVIDES INFO PRAVINGS PER SPECIFICATIONS FROM TO PURCHASING EQUIPMENT AND PROR TO CUTTING OFENINGS. CONTRACTOR SHALL SCHEDULE THE WORK INDER THIS CONTRACT WITH WORK OF OTHER TRADES AS NOT TO EQUIPMENT AND SYSTEMS INDICATED ON CONTRACT DOLUMENTS. FROM TO PURCHASING OR INSTALLING EQUIPMENT AND SYSTEMS INSTORATE A ROUTING TO DURING TO PURCHASING OR INSTALLING EQUIPMENT AND SYSTEMS INSTORATE OR CONTRACT DOLUMENTS. HORD TO SUBSTITUTION OF OTHER THAN DESCREPTIONES FOR THE SUBMITTED EQUIPMENT. SHOP DRAWINGS MUST BE REVIEWED BY ARCHTECTENNIMER. CONTRACTOR SHALL DESCREPTIONES FOR THE SUBMITTED EQUIPMENT TAINING AND THE COST OF ADDITIONAL ELECTRICAL SERVICE, STRUCTURAL AND RELATED WORK SHALL BE PAID BY THIS CONTRACTOR. 4. CONTRACTOR SHALL BE EXECUTED IN A NEAT AND WORKMANLIKE MAINER AND SHALL BE DONE IN ACCORANCE WITH GOOD THEME FRACTCES AND INCOMPORMACY WITH APPLICABLE MAUNFECTURES RECOMMENDATIONS. 4. CONTRACTOR SHALL REMOVE ALL TRASH, DEBRS AND DEMOLITION MATERIAL, FROM PREMISES AT THE END OF EACH DAY. 5. RESTOR ALL SURFACES (WALLS, CELINGS, FLOORS AND ROOPS) THAT ARE DAMAGED BY THE WORK OF THIS CONTRACT TO THEIR ORIGINAL CONDITION AT NO EXTRA COST TO THE OWNER. 4. CONTRACTOR SHALL DECONFINICATION AT NO EXTRA COST TO THE OWNER. 5. RENTOR ALL SURFACES (WALLS, CELINGS, FLOORS AND ROOPS) THAT ARE DAMAGED BY THE WORK OF THIS CONTRACTOR SHALL SURFACES (THE EXAMPLE AND DEPERTY IN SOCIEDED STATUP ONDID AND AND REVISIONING PROCEDURES. 5. IN THE ASSENCE OF OTHER SPECIFIC TORTED AT THE SPECIFICATIONS. 5. 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PROVIDE CUTTING AND PATCHING AS REQUIRED AND WHERE NECESSARY TO ACCOMMODATE NEW WORK AND THE REPARTO F DISTING WORK.  18. WHEN WORK INVOLVES CONTACT WITH MATERIALS CONTAINING ASSRESTOS, PCIL OR OTHER TOXIC MATERIALS. NOTHFY OWNER WOW WILCESTUBLIES PROVIDED FOR REXEDUTION AND REMOVAL.  19. CONTRACTOR SHALL SCHEDULE THE WORK WINDER THIS CONTRACT WITH WORK OF OTHER TRADES AS NOT TO DELAY THE OWNER. WO WILL BETHEN RECHTECTER-INNEERER OF ANY CONFLICTS PRIOR TO PURCHASING EQUIPMENT AND PRIOR TO CUTTING OPENINGS.  21. CONTRACTOR SHALL PORTH ARCHITECTER-INNEERE OF ANY CONFLICTS PRIOR TO PURCHASING EQUIPMENT AND PRIOR TO CUTTING OPENINGS.  22. CONTRACTOR SHALL PORTH ARCHITECTER-INNEERE OF ANY CONFLICTS PRIOR TO PURCHASING FOR INSTALL ING PORTH AND SYSTELSS INRICATED TO CONTRACT DOLUMENTS. PRIOR TO PURCHASING OR INSTALL ING PORTH AND DYSTELSS INRICATED TO CONTRACT DOLUMENTS. PRIOR TO PURCHASING OR INSTALL ING PORTH AND SYSTELSS INRICATED TO CONTRACT DOLUMENTS. 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2024.04.05 - DESIGN 05.16.2024 - 95% CONST 2024.06.21 - 100% C 2024.08.26 - ISSU	2024.09.25 - ADDENDUM B	2024.08.26 - ISSUE FOR CONSTRUCTION	2024.09.25 - ADDENDUM B			
T0.01TELECOM LEGENDS, ABBREVIATIONS, AND GENERAL NOTESO•••	•	•	•			
T0.02         TELECOM - DETAILS         O         •	•	•	•			
T2.00TELECOM - LOWER LEVEL PLANO•••	•	•	•			
T2.01         TELECOM - LEVEL ONE PLAN         O         •	•	•	•			<u> </u>
T3.00L     TELECOM - LOWER LEVEL REFLECTED CEILING PLAN     O     •     •		•				
T3.01     TELECOM - LEVEL ONE REFLECTED CEILING PLAN     O     •     •		•				
T6.01TELECOM - ENLARGED PLANSO•••	•		•			

![](_page_129_Figure_9.jpeg)

MUNICATIONS CARLING FOR CLISTO			DEGODIDEIO				
LDING TELECOMMUNICATIONS CABLIN	NG: MARCH 2020	<u>SYMBOL</u> # (+)		CABLE TYPE AND QUANTITY		(1) 1 1/4" ENAT	NOTES
ED-PAIR TELECOMMUNICATIONS CABL	BLING AND COMPONENTS STANDARD:					(1) 1-1/4" EMI	ı, <b>x</b> 19
ABLING COMPONENTS: OCTOBER 2016 IONS PATHWAYS AND SPACES: MAY 20	6 019		MODULAR FURNITURE DATA OUTLET	CATEGORY 6 UTP	COORDINATE WITH FURNITURE SYSTEMS	N/A	
TANDARD FOR TELECOMMUNICATION	IS INFRASTRUCTURE: JUNE 2017		WALL DATA/TV OUTLET	(3) CATEGORY 6 UTP	5-SQUARE BOX WITH 2-GANG MUDRING	(1) 1-1/4" EMT	16, 19
	IDING (EARTHING) FOR CUSTOMER	IC ▼	INTERCOM DATA OUTLET	(1) CATEGORY 6 UTP	COORDINATE WITH SECURITY CONTRACTOR FOR BACK BOX REQUIREMENTS	(1) 1-1/4" EMT	10
ATIONS COMMISSION S DEVICES		ACP	ACCESS CONTROL PANEL DATA OUTLET	(2) CATEGORY 6 UTP	COORDINATE WITH SECURITY CONTRACTOR FOR BACK BOX REQUIREMENTS	(1) 1-1/4" EMT	10
TALLATION OF LIGHTNING PROTECTIO	ON SYSTEMS	FACP	FIRE ALARM CONTROL PANEL DATA OUTLET	(2) CATEGORY 6 UTP	COORDINATE WITH FIRE ALARM CONTRACTOR FOR BACK BOX REQUIREMENTS	(1) 1-1/4" EMT	16
DDE, ARTICLES: G		¥	FLOOR BOX DATA OUTLET	CATEGORY 6 UTP	REFER TO ELECTRICAL DRAWINGS FOR FLOOR	(1) 1-1/2" EMT	1
FOR COMMUNICATIONS SYSTEM				MAXIMUM 20 CATEGORY 6 CABLES PER		(1) 2" EMT	6
LEVISION AND RADIO DISTRIBUTION S	SYSTEMS		WALL FURNITURE FEED		5-SQUARE BOX WITH 2-GANG MUDRING	(1)2 EMI	0
			FLOOR FURNITURE FEED	FEED LOCATION	REFER TO ELECTRICAL DRAWINGS FOR FLOOR BOX TYPE	(1) 2" EMT	6
JNICATIONS WARRA	ANTY NOTES		CEILING DATA OUTLET FOR WIRELESS ACCESS POINT	(2) CATEGORY 6 UTP	5-SQUARE BOX WITH 2-GANG MUDRING	(1) 1-1/4" EMT	3, 12, 13
1 20 YEAR MANUFACTURER'S SYSTEM ' THIS PROJECT.	I WARRANTY FOR ALL CABLING		WALL DATA OUTLET FOR WIRELESS ACCESS POINT	(2) CATEGORY 6 UTP	5-SQUARE BOX WITH 2-GANG MUDRING	(1) 1-1/4" EMT	2, 12
SUBMITTED TO MANUFACTURER PRIC	IOR TO PAYMENT OF FINAL	<b>#</b>	CEILING DATA OUTLET	CATEGORY 6 UTP	5-SQUARE BOX WITH 2-GANG MUDRING	(1) 1-1/4" EMT	1, 3
P SHALL BE GUARANTEED BY THE COM WNER ACCEPTANCE.	ONTRACTOR FOR A MINIMUM OF 1	RS ▼	DATA OUTLET FOR ROOM	(1) CATEGORY 6 UTP	5-SQUARE BOX WITH 2-GANG MUDRING	(1) 1-1/4" EMT	5, 14, 19
IG TO PROVIDE CABLING TO EACH TYP SECTION OF THIS DRAWING.	PE OF OUTLET SHOWN ON THE	WP	WALL PHONE	(1) CATEGORY 6 UTP	5-SQUARE BOX WITH 1-GANG MUDRING	(1) 1-1/4" EMT	<b>(</b> 19)
IUNICATIONS GENE	RAL NOTES	2₩ <u>A</u> Y		22-24 AWG TWISTED PLENI IM	5-SQUARE BOX WITH 2-GANG MUDRING	(1) 1-1/4" EMT	
S OF ALL TRADES AND COORDINATE TH CTURE, AND ALL EQUIPMENT ABOVE A	THEIR WORK PRIOR TO ANY INSTALLATIONS T AND BELOW THE CEILING.	TO SC	CEILING DATA OUTLET FOR SECURIT		N/A		
AND FIELD CONDITIONS AT THE SITE I TRACTOR SHALL PROVIDE VALUE FOR TOR TO VERIFY FIELD CONDITIONS AT	EPRIOR TO BID AND PURCHASE OF R SAME IN THEIR BID. IT SHALL BE THE RT THE SITE AND NOTIFY THE OWNFR.		DEVICE			N/A	15
ICATIONS WORK UTILIZE SYMBOLS AN	NCING WITH THE WORK.	SC (+)	WALL DATA OUTLET FOR SECURITY DEVICE	(1) CATEGORY 6 UTP	5-SQUARE BOX WITH 1-GANG MUDRING	(1) 1-1/4" EMT	2, 15, 19
WORK SHALL THEREFORE BE INSTALLI IONS DRAWINGS, BUT IN CONFORMITY LAYOUTS, AND SHOP DRAWINGS OF A	LED TO FULFILL THE DIAGRAMMATIC INTENT Y WITH THE DIMENSIONS INDICATED ON THE ALL TRADES.		EMPTY BACK BOX FOR FUTURE CABLING	N/A	5-SQUARE BOX WITH 2-GANG MUDRING	(1) 1-1/4" EMT	<b>(</b> , 19 <b>)</b>
DRAWINGS FOR TELECOMMUNICATIO IONING OF THE WORK. THESE ARE INT	ONS WORK WHICH ARE SPECIFIC WITH REGA TENDED ONLY FOR GENERAL INFORMATION	RD TV	FUTURE CEILING TV OUTLET	(3) CATEGORY 6 UTP (1) RG-6 QUAD-SHIELD COAX	N/A	N/A	17
E FIELD COORDINATION FOR INDIVIDUA	IAL ITEMS OF THE INDICATED WORK.	<u>NOTES:</u> 1. "#" REPRESENTS THE N	IUMBER OF CABLES TO BE TERMINATE	ED ON SPECIFIED JACK INSERTS AT THE OUTLET LOCAT	ION.		
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MOUNTING HEIGHTS FC 10. REFER TO SECURITY DI 11. REFER TO SECURITY DI 12. WIRELESS ACCESS POI 13. FOR WAP OUTLETS IN A NG 14. COORDINATE DATA OU 15. COORDINATE ALL DATA 16. REFER TO FIRE ALARM 17. PROVIDE 10' SERVICE L 19. MUDRING FOR SURFAC F 19. MUDRING FOR SURFAC F 10. COORDINATE ALL AV 19. MUDRING FOR SURFAC F 10. COORDINATE ALL AV 19. MUDRING FOR SURFAC F 10. COORDINATE ALL AV 19. MUDRING FOR SURFAC 10. COORDINATE ALL AV 10. MUDRING FOR SURFAC F 10. COORDINATE ALL AV 10. MUDRING FOR SURFAC F 10. COORDINATE ALL AV 11. COORDINATE ALL AV 12. ALL DEVICES SHOWN PURPOSES ONLY, UNI WITH DIFFERENT ELEP DRAWINGS FOR MOUT COCY DOCUME E SERIES SHOWN FOR SCOPE ON BASE SHOWN FOR CONDUIT SCOPE SHOWN SHOWN FOR CONDUCT S	ALL DE CORDUNATED WITH G BOX SHALL BE CORDUNATED WITH G PLENUM RATED (UL-LISTED CMP), UO DR WALL PHONES AND ROOM SCHEDL RAWINGS FOR DEVICE TYPE AND MO LAND TURNISHED BY OWNER, INSTALLED ACT CEILING - TERMINATE CABLES ON TLET CABLE ROUTING, TERMINATION TYPE AND E DRAWINGS FOR DEVICE TYPE AND MO .OOP COLLED IN CEILING BAGGED AND ED ADDUC SCHENDAWTH A A WAS ON MOUNTING AN ASSIN MOUNTING ALL DEVICE LOCATIONS (I.E. ON MASSON MOUNTING ALL DEVICE LOCATIONS PERTAINING TO W JIREMENTS. ON DRAWINGS ARE DIAGRAMMATIC IN LESS OTHERWISE NOTED. ALL DEVICE VATIONS SHALL BE ALIGNED VERTICA NTING DETAILS. INTACTION SCOPE T SERIES HOWN FOR COORDINATION N/A HOWN FOR COORDINATION N/A HOWN FOR COORDINATION SHOWN HOWN FOR DATA CABLING SHOWN AND AN A HOWN FOR DATA CABLING SHOWN HOWN FOR DATA CABLING SHOWN	A SPACES FOR ALL DATA CABLING REQUIREMENT FREE ELING TYPE. REFER TO OUTLET DETAILS FOR BACK BO N. LERS SHALL BE ADA COMPLIANT. MITING DETAILS. COORDINATE SPECIFIED JACK INSERT ACITIES. SUFFACE MOUNTED BOX. SEE DETAILS FOR ADDITIONA AND EXACT LOCATION WITH AUDIOVISUAL CONTRACTOR SUFFACE MOUNTED BOX. SEE DETAILS FOR ADDITIONA AND EXACT LOCATION WITH AUDIOVISUAL CONTRACTOR SUFFACE MOUNTED BOX. SEE DETAILS FOR ADDITIONA AND EXACT LOCATION OF EACH DEVICE WITH SECURITY CONT ACT LOCATION OF EACH DEVICE WITH SECURITY CONT TRY SHALL BE 1/4" RISE, NOT FLUSH HEIGHTS CEILING CEILING CEILING CEILING CARD READERS, REQUEST TO EXIT PUSH BUTTONS RECEPTACLES, VOICE/DATA OUTLETS, DATA OUTLETS, UNO FINISHED FLOOR ALL ELEVATION AFF. REFER TO ARCHITECT DRAWINGS ALL CATION AND SHOWN FOR GENERAL WIRING IS INDICATED TO BE INSTALLED IN THE SAME LOCATION LLY AND HORIZONTALLY. REFER TO ARCHITECT URAWINGS SIDICATED TO BE INSTALLED IN THE SAME LOCATION LLY AND HORIZONTALLY. REFER TO ARCHITECT URAWINGS SIDICATED TO BE INSTALLED IN THE SAME LOCATION LLY AND HORIZONTALLY. REFER TO ARCHITECT URAL PE TA SERIES SC SERIES N/A FOR COORDINATION SHOWN FOR COORDINATIO FOR SCOPE SHOWN FOR SCOPE FOR COORDINATION SHOWN FOR SCOPE FOR COORDINATION SHOWN FOR SECURITY CAE AND CONDUIT SCOPE FOR COORDINATION IVA	AND TECHNICATION METHOD WITH SECURITY CONTRACTOR.  AND TERMINATION METHOD WITH SECURITY CONTRACTOR.  AL INFORMATION. R, ARCHITECT AND WALL SYSTEMS. TRACTOR.  TELECOMMUNICATION DEMOLITION, THE CONTRACTOR SHALL LOG ALL E ALARM, AND CONTROL CIRCUITS THAT SERVE SUCH EQUIPM  TELECOMMUNICATION DRANUOS SHALL SERVE SUCH EQUIPM  TELECOMMUNICATION DRANUNGS INDEXTET  ALL TEMS TO BE REMOVED. STALL SHALL WITH FIRE ALARM CONTRACTOR.  TELECOMMUNICATION DRANUNGS INDEXTET  ALL SERVICES TO EXISTING BUILDING SHALL LOG ALL EXIST  CONTRACTOR SHALL CONDITIONS AND EXTENT OF WORK DEY  CELLING TO BE REMOVED. STALL BE DISCONNECTED AND MA REPRESENTATIVE OF ANY UNFORESEEN CONDITIONS ENCO  REFER TO ARCHITECTURAL DRAWINGS FOR THE FULL EXTE  ALL SERVICES TO EXISTING BUILDING SHALL BE MINITAINN INDICATED. CONTRACTOR SHALL SCHEDULE ALL WORK, CUTTING, AND I  CONTRACTOR SHALL SCHEDULE ALL WORK IN OTHER TENANTS SPAR ACCEPTABLE TO BUILDING MAXAGEMENT.  C. TC SHALL BE RESPONSIBLE FOR THE REPAIR OF ALL SYSTE EXECUTION OF THE WORK, DAWAGE SHALL INCIDE BUT NO INSCONNECTION.  TC SHALL REMOVE ALL CARLING AND PACEWAYS TO THEIR  THE CONTRACTOR SHALL SCHEDULE ALL WORK CABLING BUT NO DISCONNECTION.  TC SHALL REMOVE ALL CARLING AND PACEWAYS TO THEIR  AND THE VORK DAWAGE SHALL NOT BE SALVAGED.  T. TC SHALL REMOVE ALL CARLING AND PACEWAYS TO THEIR  AND THE CONTRACTOR SHALL PROVIDE BLANK METAL PLATES FH  AND THE CONTRACTOR SHALL PROVIDE BLANK METAL PLATES FH  ALL DEMOLITION AND CONSTRUCTION ACTIVITIES SHALL BE MINIMED DISCONNECTION.  MISC. LEGEEND / TAGS  SYMBOL DESCLEDERUPTION TO THE NORMAL DALY FUNCTIONING NUMBER  AND AND COMPLETION, CLEAN ALL AREAS AND REMOVE ALL DE AFFECTED BY DEMOLITION.  AND ANTACHED ITEMS, SUCH AS MOBILE EQUIPMENT, D  ALL DEMOLITION. AND CONSTRUCTION ACTIVITIES SHALL BE MINIMED DISCUMPLET TO THE NORMAL DALY FUNCTIONING  AND	EMOLITION NOTES         XISTING EQUIPMENT AND TRACE ELECTRICAL, FIRE         EXISTING EQUIPMENT AND ARE NOT INTENDED TO SHOW TO THE SUBMISSION OF BIDS TO BECOME FAMILIAR CES AND EQUIPMENT LOCATED ON THE WALL AND/OR DE SAFE. TO SHALL NOTIFY THE OWNERS JUITERED DURING DEMOLITION WORK.         ID DURING CONSTRUCTION UNLESS OTHERWISE SHUT DOWNS AND TIMING WITH OWNER.         UILDING SERVICE INTERRUPTIONS WITH BUILDING K. FOLLOW ALL BUILDING GUIDELINES FOR FLOOR E. ALL CORING MUST OCCUR DURING HOURS         WIG ON STRUCTION ON DISPOSAL OF         ITHE AREA OF DEMOLITION SCOPE OF WORK PRIOR TO         CONTS OF ORIGIN WITHIN THE AREA OF DEMOLITION BANDONED IN PLACE. RACEWAY THAT ENTER SURFACE FOR PATCHING BY OTHERS.         INR ALL JUNCTIONIDEVICE BOXES NO LONGER IN USE.         COORDINATED WITH THE GENERAL CONTRACTOR TO OF THE OCCUPIED.         ESKTOP PC OR PHONES SHALL BE REMOVED BY         MOLITION MATERIALS, CLEAN ALL ADJACENT AREAS         ELEC SYMBOLS         SYMBOL       DESCRIPTION         IF RACE AND DUPLEX RECEPTACLE         IMBOL       STANDARD DUPLEX RECEPTACLE         IMBOL       DESCRIPTION         IG       FIRE ALARM RELAY CONTROL         OONNET ON ONLY, REFER TO POWER AND FIRE ALARM DRAWINGS FOR CIRCUITING AND OTHER INFORMATION.	

![](_page_129_Figure_14.jpeg)

![](_page_130_Figure_0.jpeg)

![](_page_130_Figure_1.jpeg)

	TELECOM DATA OUTLET SCHEDUL	E			
OUTLET LABEL	OUTLET TYPE	OUTLET TAG	DATA CABLES	VOICE CABLES	COAX CABLES
G01-01	STANDARD 2-PORT WIRELESS ACCESS POINT		2	0	0
G01-01	STANDARD 3-PORT OUTLET	3	2	1	0
G02-01	STANDARD 3-PORT OUTLET	3	2	1	0
G02-02	STANDARD CEILING MOUNT FUTURE TV OUTLET		3	0	1
G02-03	STANDARD 2-PORT WIRELESS ACCESS POINT		2	0	0
G03-01	STANDARD 3-PORT OUTLET	3	2	1	0
G03-02	STANDARD CEILING MOUNT FUTURE TV OUTLET		3	0	1
G04-01	STANDARD 3-PORT OUTLET	3	2	1	0
G04-02	STANDARD CEILING MOUNT FUTURE TV OUTLET		3	0	1
G04-03	STANDARD 2-PORT WIRELESS ACCESS POINT		2	0	0
G05-01	STANDARD 3-PORT OUTLET	3	2	1	0
G05-02	STANDARD CEILING MOUNT FUTURE TV OUTLET		3	0	1
G06-01	STANDARD 3-PORT OUTLET	3	2	1	0
G06-02	STANDARD CEILING MOUNT FUTURE TV OUTLET		3	0	1
G07-01	STANDARD 3-PORT OUTLET	3	2	1	0
G07-02	STANDARD CEILING MOUNT FUTURE TV OUTLET		3	0	1
G07-03	STANDARD 2-PORT WIRELESS ACCESS POINT		2	0	0
G08-01	STANDARD 3-PORT OUTLET	3	2	1	0
G08-02	STANDARD TV OUTLET	TV	3	0	1
G08-03	STANDARD 3-PORT OUTLET	3	2	1	0
G08-04	STANDARD TV OUTLET	TV	3	0	1
G08-05	STANDARD 3-PORT OUTLET	3	2	1	0
G08-06	STANDARD TV OUTLET	TV	3	0	1
G08-07	STANDARD TV OUTLET	TV	3	0	1
G08-08	STANDARD 3-PORT OUTLET	3	2	1	0
G08-09	STANDARD TV OUTLET	TV	3	0	1
G08-10	STANDARD 3-PORT OUTLET	3	2	1	0
G08-11	STANDARD TV OUTLET	TV	3	0	1
G08-12	STANDARD 3-PORT OUTLET	3	2	1	0
G08-13	STANDARD 2-PORT WIRELESS ACCESS POINT		2	0	0
G09A-01	STANDARD 4-PORT OUTLET	4	4	0	0
G09B-01	STANDARD 4-PORT OUTLET	4	4	0	0
G09B-02	STANDARD 2-PORT WIRELESS ACCESS POINT		2	0	0
G09C-01	STANDARD 4-PORT OUTLET	4	4	0	0
G09C-02	STANDARD 2-PORT WIRELESS ACCESS POINT		2	0	0
G09C-02	STANDARD 2-PORT WIRELESS ACCESS POINT		2	0	0
G13-01	STANDARD TV OUTLET	TV	3	0	1
G13-02	STANDARD 3-PORT OUTLET	3	2	1	0
G13-03	STANDARD TV OUTLET	TV	3	0	1
G13-04	FLOOR BOX 2-DATA	2	2	0	0
G13-05	FLOOR BOX 2-DATA	2	2	0	0
G13-06	STANDARD 2-PORT WIRELESS ACCESS POINT		2	0	0
G15-01	STANDARD 3-PORT OUTLET	3	2	1	0
G15-02	STANDARD TV OUTLET	TV	3	0	1

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![](_page_130_Figure_6.jpeg)

![](_page_130_Figure_7.jpeg)

	RV	OUTLET LABEL	OUTLET TYPE
G1	5	G15-03	STANDARD 2-PORT WIRELESS ACCESS POINT
G1	6	G16-01	STANDARD TV OUTLET
G1	6	G16-02	STANDARD 3-PORT OUTLET
G1	6	G16-03	STANDARD TV OUTLET
G1	6	G16-04	STANDARD 2-PORT WIRELESS ACCESS POINT
G1	6	G16-05	STANDARD 2-PORT WIRELESS ACCESS POINT
G1	7	G17-01	STANDARD 3-PORT OUTLET
G1	7	G17-02	STANDARD 3-PORT OUTLET
G1	7	G17-03	STANDARD TV OUTLET
G1	7	G17-04	STANDARD 2-PORT WIRELESS ACCESS POINT
G1	8	G18-01	STANDARD TV OUTLET
G1	8	G18-02	STANDARD 3-PORT OUTLET
G1	8	G18-03	STANDARD TV OUTLET
G1	8	G18-04	STANDARD 2-PORT WIRELESS ACCESS POINT
G1	9	G19-01	STANDARD TV OUTLET
G1	9	G19-02	STANDARD 3-PORT OUTLET
G1	9	G19-03	STANDARD TV OUTLET
G1	9	G19-04	STANDARD 2-PORT WIRELESS ACCESS POINT
G2	0	G20-01	STANDARD 3-PORT OUTLET
G2	0	G20-02	STANDARD TV OUTLET
G2	0	G20-03	STANDARD 2-PORT WIRELESS ACCESS POINT
G2	1	G21-01	STANDARD CEILING MOUNT FUTURE TV OUTLE
G2	1	G21-02	1+

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E				
		DATA	VOICE	COAX
	OUTLET TAG	CABLES	CABLES	CABLES
	Τ\/	2	0	1
	2	3 2	1	0
		2	0	1
		3 2	0	0
		2	0	0
	2	2	1	0
	ა ი	2	1	0
		2	0	1
	IV	3 2	0	0
	T)/	2	0	1
	1 V 2	0	1	1
	ა 	2	1	0
	IV	3	0	1
	<b>T</b> /	2	0	0
	10	3	0	1
	3	2	1	0
	IV	3	0	1
		2	0	0
	3	2	1	0
	TV	3	0	1
		2	0	0
		3	0	1
		1	0	0
		3	0	1
		2	0	0
		1	0	0
		3	0	1
		1	0	0
		3	0	1
		1	0	0
	TV	3	0	1
	TV	3	0	1
	2	2	0	0
		2	0	0
		2	0	0
	3	2	1	0

		TELECOM DATA OUTLET SCHEDULE				
RV	OUTLET LABEL	OUTLET TYPE	OUTLET TAG	DATA CABLES	VOICE CABLES	COAX CABLES
G26	G26-02	STANDARD TV OUTLET	TV	3	0	1
G26	G26-03	STANDARD 2-PORT WIRELESS ACCESS POINT		2	0	0
GC02	GC02-01	STANDARD TV OUTLET	TV	3	0	1
GC02	GC02-02	STANDARD 2-PORT WIRELESS ACCESS POINT		2	0	0
GC02	GC02-02	WP		1	0	0
GC02	GC02-03	STANDARD CEILING MOUNT SECURITY CAMERA OUTLET	SC	1	0	0
GC02	GC02-04	STANDARD 2-PORT WIRELESS ACCESS POINT		2	0	0
GC04	GC04-01	STANDARD 2-PORT WIRELESS ACCESS POINT		2	0	0
GC04	GC04-01	WP		1	0	0
GC04	GC04-01	STANDARD CEILING MOUNT SECURITY CAMERA OUTLET	SC	1	0	0
GC04	GC04-02	STANDARD CEILING MOUNT SECURITY CAMERA OUTLET	SC	1	0	0
GC06	GC06-01	STANDARD TV OUTLET	TV	3	0	1
GC06	GC06-02	STANDARD 2-PORT WIRELESS ACCESS POINT		2	0	0
GC06	GC06-02	WP		1	0	0
GC06-04	GC06-04	STANDARD 2-PORT WIRELESS ACCESS POINT		2	0	0
GC09	G09C-02	STANDARD 2-PORT WIRELESS ACCESS POINT		2	0	0
GM01	GM01-01	STANDARD CEILING MOUNT SECURITY CAMERA OUTLET	SC	1	0	0
GM01	GM01-02	STANDARD 2-PORT WIRELESS ACCESS POINT		2	0	0
GM01	GM-01	WP		1	0	0
GR01-01	GR01-01	STANDARD 2-PORT WIRELESS ACCESS POINT		2	0	0
GR02-01	GR02-01	STANDARD 2-PORT WIRELESS ACCESS POINT		2	0	0
GS01	GS01-01	STANDARD CEILING MOUNT SECURITY CAMERA OUTLET	SC	1	0	0
GS02	GS02-01	STANDARD CEILING MOUNT SECURITY CAMERA OUTLET	SC	1	0	0
GS02	GS02-03	STANDARD CEILING MOUNT SECURITY CAMERA OUTLET	SC	1	0	0
GS02	GS02-04	STANDARD CEILING MOUNT SECURITY CAMERA OUTLET	SC	1	0	0
G781		₽Ŧ₡₩₽₡₽₽₽₽₽₽₽₩₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽	$\sim$	$\sim$	t~~	
GT01	GT01-02	STANDARD 3-PORT OUTLET	3	2	1	0
LOWER LEVEL.	107			236	24	<u>3</u> 2
102	102-01	STANDARD 3-PORT OUTLET	3	2	1	0
102	102-02	STANDARD TV OUTLET	TV	3	0	1
102	102-03	WP		1	0	0
102	102-05	STANDARD WALL-MOUNT SECURITY CAMERA OUTLET	SC+	1	0	0
GC04	GC04-03	Ceiling Data SC		1	0	0
GC04	GC04-04	Ceiling Data SC		1	0	0
GC04	GC04-05	Ceiling Data SC		1	0	0
FIRST FLOOR: 7				10	1	1
Grand total: 114				246	25	33

![](_page_130_Figure_23.jpeg)

![](_page_131_Figure_0.jpeg)

![](_page_131_Figure_1.jpeg)

![](_page_131_Figure_4.jpeg)

![](_page_131_Figure_5.jpeg)

~	1.	INSTALL NEW 36/F (SM) RISER. RIBBO PRE-TERMINATED CASSETTES. NEW F HOUSING REQUIRED. RELOCATE EXIS INTO NEW HOUSING. ALL CONNECTIO FUSION-SPLICE. TESTING IS TIER 1 AN DIRECTIONAL (OTDR AND OLT)
	2.	PROVIDE (2) 4" EMT CONDUIT SLEEVE RISER TO TR ABOVE.
	3.	APPX. LOCATION OF 48"X48" PULLBOX BUILDING FEEDS. PULLBOX TO REMAN ACCESSIBLE FOR FUTURE USE.
	4	WALL PENETRATION LOCATION TO RE

![](_page_132_Figure_0.jpeg)

![](_page_132_Figure_1.jpeg)

![](_page_132_Figure_4.jpeg)

![](_page_132_Figure_5.jpeg)

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![](_page_133_Figure_1.jpeg)

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![](_page_133_Figure_4.jpeg)

![](_page_133_Figure_5.jpeg)