



ARCHITECTURAL NEXUS, Inc archnexus.com SALT LAKE CITY 2505 East Parleys Way Salt Lake City, Utah 84109 T 801.924.5000

SACRAMENTO 1990 Third Street, Suite 500 Sacramento, California 95811 T 916.443.5911

ISSUE DATE:	June 25, 2018	<b>RESPONSE TO:</b>	Contractor Requests for Information
PROJECT:	NAC Equestrian Center Expansion 1000 Ability Way	OWNER'S PROJECT #:	N/A
	Park City, UT 84060	ARCHITECT'S PROJECT #:	17179.00
PAGES:	2 + Attachments		

## This Addendum forms a part of the Contract Documents and modifies the original Bid Documents as noted below. Acknowledge receipt of this Addendum in the space identified as Addendum #1 on the Bid Form. Failure to do so may subject the Bidder to disqualification. This Addendum includes all attachments noted, included herein by reference.

#### RFIs:

#### # Question

- **1.1** The door hardware groups and specification appear to be missing. Please indicate where these are located or provide.
- **1.2** Exterior Storefront Type J is missing on sheet A602. Please provide.
- 1.3 Sheet A151A note 06:PW3 calls for a highergrade plywood to be used at the exposed ceiling areas (interior and exterior). It seems that AC or CDX plywood would be the correct application. CDX plywood would be the lesser cost. Please indicate the structural plywood grade and species that is to be used at the interior/exterior exposed ceilings (see also A151C, A5/A511, and B3/A513).
- **1.4** On sheet S302 it shows that the existing rod bracings are to stay in place. In some cases, these rods are located at the new window locations. Please confirm that it is acceptable for the to obstruct the view through the new windows, as it may be costly to remove the existing rod bracing.
- On sheet A151B between grids D F / 4 -6 callout 06:LVL requires 11-7/8" LVL sistered to glu-lam on both sides as rain gutter support. Please indicate if these LVL's are to be left exposed or if a finish is to be applied to the LVL's (see also A3/A511).
- **1.6** Based on a preliminary site visit it appears that the existing All West Telephone Service and RMP Transformer are in a different location than currently shown on the plans. Please review and revise if appropriate.

#### <u>Response</u>

Door hardware specifications have been added, and set input into the schedule. See attached.

Type J is on sheet A602, but was tagged as type K. Type K was missing a tag on sheet A602. This has been clarified. See revised sheet A602, attached.

This will be addressed in Addendum 2.

Existing bracing in front of new windows is acceptable between the existing arena and the new expansion.

All exposed, exterior wood is to be sealed. See Specification Section 062013, paragraph 2.3 C.

We have located the existing service in the correction location per the civil drawings. The site was updated to show the new location of the transformer and pedestal for all west service.

This will be addressed in Addendum 2.

**1.7** Sheet A121 shows a 1.5/12 pitch on the lower roof with exposed fasteners. Would it be more appropriate to possibly switch to a standing seam and mechanical seam at this shallow pitch?

#### SPECIFICATION AMENDMENTS:

S1. Specifications:

	•			
	Item #	Section	Page/Para	Amendment
	S1.00	-	TOC	<b>REVISE</b> table of contents to include door hardware. See attached.
	S1.01	087100	Section	ADD Specification section for Door Hardware. See attached.
	S1.02	230810	Section	ADDED Variable Frequency Drives Specification Section.
			FO.	
	General		15:	
<b>D</b> 1.	Itom #	Shoot(s)	Drawing/Dotail	Amondmont
	<u>nteni #</u>	<u>C002</u>	Sheet Index	REVISE sheet index to match sheets issued. See revised sheet, attached
50		6002	Sheet muex	
DZ.				Amondusont
	<u>Item #</u>	<u>Sneet(s)</u>	Drawing/Detail	Amenament
	D2.01			None Noted
D3.	Landsc	ape:		
	ltem #	<u>Sheet(s)</u>	Drawing/Detail	Amendment
	D3.01			None Noted
D4.	Structu	ral:		
	<u>ltem #</u>	<u>Sheet(s)</u>	Drawing/Detail	Amendment
	D4.01			None Noted
D5.	Archite	ctural:		
	ltem #	<u>Sheet(s)</u>	Drawing/Detail	Amendment
	D5.01	A601	Door Schedule	REVISED Hardware set numbers. See revised sheet, attached.
	D5.02	A602	Storefront Types	<b>REVISED</b> storefront type J and K tags. See revised sheet, attached.
D6.	Mechan	ical:		
	<u>ltem #</u>	<u>Sheet(s)</u>	Drawing/Detail	Amendment
	D6.01	M101C	Level 1 Mechanical Floor Plan – Area 'C'	ADDED additional size requirements for fresh air plenum to makeup air unit (MAU-1). ADDED 1" drain connection to fresh air plenum serving (MAU-1).
	D6.03	M601	Mechanical Schedules	ADDED vent material, type, and connection sizes to Make Up Air Unit Schedule (MUA) ADDED vent type and connection sizes to Gas Fired Unit Heater Schedule (UH)
	D6.03	P101C	Level 1 Plumbing Floor Plan – Area 'C'	<b>ADDED</b> 1" drain from fresh air plenum at makeup air unit (MAU-1) to floor sink.
D7.	Electric	al:		
	<u>ltem #</u>	<u>Sheet(s)</u>	Drawing/Detail	Amendment
	D7.01	-	-	See electrical addendum write up (5 pages), and associated revised sheets (19 sheets)

Kelly Holland, AIA, Project Manager Phone

9 Email kholland@archnexus.com

Date 6/25/18

#### TABLE OF CONTENTS

#### DIVISION 01 GENERAL REQUIREMENTS

011000	SUMMARY
011000	SUMMARI

- 012500 SUBSTITUTION PROCEDURES
- 012600 CONTRACT MODIFICATION PROCEDURES
- 012900 PAYMENT PROCEDURES
- 013100 PROJECT MANAGEMENT AND COORDINATION
- 013200 CONSTRUCTION PROGRESS DOCUMENTATION
- 013300 SUBMITTAL PRODEDURES
- 014000 QUALITY REQUIREMENTS
- 014200 REFERENCES
- 015000 TEMPORARY FACILITIES AND CONTROLS
- 015639 TEMPORARY TREE AND PLANT PROTECTION
- 016000 PRODUCT REQUIREMENTS
- 017300 EXECUTION
- 017419 CONSTRUCTION WASTE MANAGEMENT AND DISPOSAL
- 017700 CLOSEOUT PROCEDURES
- 017823 OPERATION AND MAINTENANCE DATA
- 017839 PROJECT RECORD DOCUMENTS
- 017900 DEMONSTRATION AND TRAINING

#### **DIVISION 02 EXISTING CONDITIONS**

024119 SELECTIVE DEMOLITION

#### **DIVISION 03 CONCRETE**

033000 CAST-IN-PLACE CONCRETE

#### **DIVISION 04 MASONRY**

044313.16 ADHERED STONE MASONRY VENEER

#### **DIVISION 05 METALS**

- 055000 METAL FABRICATIONS
- 055119 METAL GRATING STAIRS
- 055213 PIPE AND TUBE RAILINGS

#### **DIVISION 06 WOOD, PLASTICS AND COMPOSITES**

061000	ROUGH CARPENTRY
061516	WOOD FLOOR AND ROOF DECKING

- 061600 SHEATHING
- 061753 SHOP FABRICATED WOOD TRUSSES

061800	<b>GLUED-LAMINATED</b>	CONSTRUCTION

- 062013 EXTERIOR FINISH CARPENTRY
- 064113 WOOD-VENEER-FACED ARCHIECTURAL CABINETS
- 064116 PLASTIC-LAMINATE-FACED ARCHITECTURAL CABINETS
- 064216 FLUSH WOOD PANELING

#### DIVISION 07 THERMAL AND MOISTURE PROTECTION

072100	THERMAL INSULATION
074113	CORRUGATED ROOF AND WALL PANELS
074213	METAL PANELS
074213.23	METAL COMPOSITE MATERIAL WALL PANELS
074646	FIBER CEMENT SIDING
075423	THERMOPLASTIC POLYOLEFIN (TPO) ROOFING
076200	SHEET METAL FLASHING AND TRIM
077253	SNOW GUARDS
079200	JOINT SEALANTS
079513.13	INTERIOR EXPANSION JOINT COVER ASSEMBLIES
079513.16	EXTERIOR EXPANSION JOINT COVER ASSEMBLIES

#### **DIVISION 08 OPENINGS**

081113	HOLLOW METAL DOORS AND FRAMES
081416	FLUSH WOOD DOORS
084113	ALUMINUM FRAMED ENTRANCES AND STOREFRONTS
086250	TUBULAR DAYLIGHTING DEVICES
087100	DOOR HARDWARE
088000	GLAZING

#### **DIVISION 09 FINISHES**

092900	GYPSUM BOARD
093013	CERAMIC TILING
095113	ACOUSTICAL PANEL CEILINGS
095613	RESILIENT BASE AND ACCESSORIES
096566	RESILIENT ATHLETIC FLOORING
096813	TILE CARPETING
099113	EXTERIOR PAINTING
099123	INTERIOR PAINTING
099300	STAINING AND TRANSPARENT FINISHING

#### **DIVISION 10 SPECIALTIES**

101423.16	ROOM IDENTIFICATION PANEL SIGNAGE
102113.17	PHENOLIC-CORE TOILET COMPARTMENTS
102226	OPERABLE PARTITIONS
102800	TOILET, BATH, AND LAUNDRY ACCESSORIES
104413	FIRE PROTECTION CABINETS
104416	FIRE EXTINGUISHERS

105100 SOLID PHENOLIC LOCKERS

#### DIVISION 12 FURNISHINGS

122113 ROLLER WINDOW DIM DED	122413	ROLLER	WINDOW	SHADES
------------------------------	--------	--------	--------	--------

- 123661.16 SOLID SURFACING COUNTERTOPS
- 123661.19 QUARTZ AGGLOMERATE COUNTERTOPS

#### **DIVISION 14 CONVEYING EQUIPMENT**

142400 HYDRAULIC ELEVATORS

#### **DIVISION 21 FIRE SUPRESSION**

211000 FIRE PROTECTION

#### **DIVISION 22 PLUMBING**

- 221411 DISINFECTING WATER SUPPLY SYSTEM
- 221430 PLUMBING SPECIALTIES
- 224440 PLUMBING FIXTURES
- 224450 PLUMBING EQUIPMENT

#### DIVISION 23 HEATING, VENTILATING AND AIR CONDITIONING

- 230500 BASIC MECHANICAL REQUIREMENTS
- 230529 BASIC MECHANICAL MATERIALS AND METHODS
- 230540 MECHANICAL SOUND AND VIBRATION CONTROL
- 230548 MECHANICAL SEISMIC CONTROL
- 230593 TESTING, ADJUSTING AND BALANCING
- 230700 MECHANICAL INSULATION
- 231123 NATURAL GAS SYSTEM
- 233300 DUCTWORK AND ACCESSORIES
- 233400 AIR HANDLING FANS
- 233713 AIR INLETS AND OUTLETS
- 234100 AIR CLEANING
- 235100 BREECHINGS, CHIMNEYS, STACKS AND FLUES
- 235400 FUEL FIRED HEATERS
- 235700 HEAT TRANSFER
- 236400 REFRIGERATION
- 236500 VRF SYSTEMS
- 237400 AIR HANDLING SYSTEMS

#### **DIVISION 26 ELECTRICAL**

260500	ELECTRICAL GENERAL PROVISIONS
260501	MECHANICAL AND ELECTRICAL COORDINATION
260507	ELECTRICAL CONNECTIONS FOR EQUIPMENT
260510	ELEVATOR ELECTRICAL REQUIREMENTS

- 260519 CONDUCTORS AND CABLES (600V AND BELOW)
- 260526 GROUNDING
- 260529 SUPPORTING DEVICES
- 260532 CONDUIT RACEWAY
- 260533 ELECTRICAL BOXES AND FITTINGS
- 260536 RACEWAY SYSTEMS
- 260553 ELECTRICAL IDENTIFICATION
- 260923 OCCUPANCY SENSORS
- 260943 LIGHTING CONTROL EQUIPMENT
- 262200 TRANSFORMERS
- 262413 SWITCHGEAR AND SWITCHBOARDS
- 262416 PANELBOARDS
- 262713 SERVICE ENTRANCE
- 262726 WIRING DEVICES
- 262815 OVERCURRENT PROTECTIVE DEVICES
- 262816 MOTOR AND CIRCUIT DISCONNECTS
- 262913 MOTOR STARTERS
- 265100 INTERIOR AND EXTERIOR BUILDING LIGHTING
- 265600 EXTERIOR AREA LIGHTING

#### **DIVISION 27 COMMUNICATIONS**

271501	<b>TELEPHONE SYSTEMS</b> (	(RACEWAYS)
2/1001	The state of states (	(ICICE (IIII))

- 273244 TWO-WAY COMMUNICATION
- 274100 AUDIOVISUAL SYSTEMS

#### DIVISION 28 ELECTRONIC SAFETY AND SECURITY

- 282205 ACCESS CONTROL SYSTEM
- 283111 FIRE ALARM AND DETECTION SYSTEM
- 283112 FIRE SPRINKLER MONITORING SYSTEM

#### **DIVISION 32 EXTERIOR IMPROVEMENTS**

- 328400 PLANTING IRRIGATION
- 329115 SOIL PREPARATION (PERFORMANCE SPECIFICATION)
- 329300 PLANTS

#### SECTION 087100 - DOOR HARDWARE

#### PART 1 GENERAL

#### 1.01 SECTION INCLUDES

- A. Door hardware for swinging doors and other doors to the extent indicated.
- B. Cylinders and hardware for special doors as scheduled in hardware sets.
- C. Electro-mechanical devices and access control components as specified herein.

#### 1.02 RELATED REQUIREMENTS

- A. Section 08 1113 Hollow Metal Doors and Frames.
- B. Section 08 1416 Flush Wood Doors.
- C. Section 08 4313 Aluminum-Framed Storefronts and Entrances.

#### 1.03 REFERENCED STANDARDS

- A. American National Standards Institute (ANSI):
  - 1. International Code Council (ICC): ANSI/ICC A117.1: Accessible and Usable Buildings and Facilities, edition as adopted by local Authority Having Jurisdiction (AHJ).
  - 2. Builders Hardware Manufacturer's Association (BHMA)
    - a. ANSI/BHMA A156.1; Butts & Hinges; 2013 edition
    - b. ANSI/BHMA A156.2; Bored and Preassembled Locks and Latches; 2011 edition
    - c. ANSI/BHMA A156.16; Auxiliary Hardware; 2013 edition
    - d. ANSI/BHMA A156.18; Materials and Finishes; 2012 edition
    - e. ANSI/BHMA A156.36; Auxiliary Locks; 2010 edition
- B. Door and Hardware Institute (DHI)
  - 1. Keying Systems and Nomenclature, 2003 edition
  - 2. Sequence and Format for the Hardware Schedule, 2001 edition

#### 1.04 ADMINISTRATIVE REQUIREMENTS

- A. Coordination: Coordinate layout, templating, and installation of work with other sections as required. Provide templates, product information, schedules, and diagrams required to fully coordinate the work.
  - Coordinate blocking for wall stops and other wall mounted hardware with Section 06 1053

     Miscellaneous Rough Carpentry.

- 2. Coordinate hardware locations and templating with the appropriate Division 08 door and frame sections.
- 3. Coordinate conduit, raceways, wiring, and connection as required for electrical and pneumatic hardware items with the appropriate electrical, access control, intrusion detection, and fire alarm sections.
- B. Pre-installation Meeting: Upon approval of hardware schedule and wiring diagram submittals and before hardware installation, conduct a pre-installation meeting to discuss special installation requirements, coordinate electrical rough-in and other preparatory work performed by other trades, review sequence of operation for each electrified door opening, and review required testing, inspecting, and certifying procedures.
- C. Keying Conference: Prior to ordering hardware, conduct meeting to coordinate key system requirements and layout of keying with owner, contractor, and supplier.

#### 1.05 SUBMITTALS

- A. General:
  - 1. Provide submittals in accordance with Section 01 6000 Product Requirements.
  - 2. Advise architect within the submittal package of incompatibility or issues which may detrimentally affect the work of this section.
  - 3. Submittals shall be prepared by or under the supervision of Architectural Hardware Consultant. Stamp submittals with the DHI certification seal and signature of the supervising Architectural Hardware Consultant.
  - 4. Submittal sequence: Submit product data, hardware schedule, samples, and qualification data concurrently. Coordinate submission of door hardware schedule with scheduling requirements of other work to facilitate the fabrication of other work that is critical in project construction schedule. Upon approval of first submittal package, submit wiring diagrams and key schedule.
- B. Product Data: Submit manufacturer's technical product data for each item of door hardware. Highlight relevant product information such as model, function, trim, finish, options, electrical requirements, and accessories.
- C. Hardware Schedule:
  - 1. Submit hardware schedule detailing fabrication and assembly of door hardware as well as procedures and diagrams. Coordinate the final door hardware sets with doors, frames, and related work to ensure proper size, thickness, hand, function, and finish of door hardware.
  - 2. Format schedule complying with the vertical format in DHI's "Sequence and Format for the Hardware Schedule" publication.
    - a. Use same door numbers as found in contract documents and group doors with like hardware under a single heading.
    - b. Identify each heading with the submitted heading number and Architect's specified hardware set number.
    - c. Each heading shall include a list of applicable openings with information as follows: Architect's specified door number, to/from location, maximum door swing, handing

information, door and frame sizes and materials, applicable ratings, and other information that may impact the door hardware.

- d. Each heading shall also include complete designations of every item including: quantity per opening, manufacturer, description of item, and complete model number designating type, style, function, size, finish, fasteners, and other options required for the provision of hardware. Indicate non-standard installation requirements or mounting heights, operational narratives of electrified openings, and list related door devices specified in other sections.
- D. Keying Schedule: Submit keying schedule detailing Owner's final keying instructions for locks. Include schematic keying diagram and index each key set to unique door designations complying with DHI's "Keying Systems and Nomenclature" publication.
- E. Shop Drawings:
  - 1. Elevation Diagrams: For each electrified application, provide an elevation diagram depicting the locked side of the door. In title block of diagram, reference the applicable opening number and/or hardware set number as specified by the architect. Depict visible hardware items using solid lines and hidden hardware items using dashed lines and identify each electrified hardware item. Depict required electrical wiring and identify the required quantity and gage of wires for each component. Include narrative of opening operation.
  - 2. Point to Point Diagrams: For each electrified application, provide a point to point schematic diagram that depicts each wiring connection point on each component. Depict the required wiring from component to component and indicate each wire's start point, termination point, color, and requirements for each conductor's gage, twist type, shielding, maximum length, and plenum rating as required by hardware manufacturer and/or applicable codes.
- F. Samples: Submit a sample of each type of hardware requested by the architect. Provide samples of same finish, style, and function as specified herein and tag with location and full description for coordination with the schedule. Samples will be returned to supplier in like-new condition. Items that are acceptable to the architect may, after final check of operations, be incorporated into the work, within the limitations of the keying requirements.
- G. Manufacturer's Templates: After final approval of the hardware schedule, provide templates for doors, frames, and other work specified to be factory prepared for the installation of door hardware. Check shop drawings of other work to ensure that adequate provisions are made for locating and installing door hardware to comply with indicated requirements. Provide additional templates, template lists, hardware schedules, and product information to other trades upon request.
- H. Product Test Reports: Based on evaluation of comprehensive tests performed by manufacturer and witnessed by a qualified testing agency, provide reports for locks, latches, delayed egress locks, electro-mechanical hardware, and door closers. Certify that products are approved for use on each type and size of labeled fire door and meet the requirements specified herein for fire rated openings.

#### 1.06 CLOSE OUT SUBMITTALS

- A. General: Upon substantial completion, provide two (2) copies of the closeout submittals complying with Section 01 7800 Closeout Submittals.
- B. Operation And Maintenance Data: Provide operation and maintenance manuals that include the following for each hardware item:
  - 1. Project information including contact information for architect, contractor, supplier, installer, Architectural Hardware Consultant, and local representative of each hardware manufacturer
  - 2. Copies of approved product data, hardware schedule, keying schedule, shop drawings, and manufacturer's templates submittals. Submittals shall be updated to reflect as-built conditions.
  - 3. Complete information on care, maintenance, adjustment, repair and replacement of parts, and preservation of finishes

#### 1.07 QUALITY ASSURANCE

- A. Qualifications
  - 1. Supplier Qualifications:
    - a. Supplier shall have documented experience in the supply of door hardware for five (5) years or for three (3) prior projects similar in scope, size, and quality. Supplier shall be a certified direct distributor and be a full sales and service organization for the manufacturer(s) listed. Supplier shall have warehousing facilities within 75 miles of the project site.
    - b. During the course of the work, supplier shall make available an Architectural Hardware Consultant (AHC) or Architectural Openings Consultant (AOC), as certified by DHI and enrolled in the DHI Continuing Education Program, to consult with contractor, architect, and owner about door hardware and keying.
  - 2. Installer Qualifications: Installer shall have documented experience in the installation of door hardware for five (5) years or for three (3) prior projects similar in scope, size, and quality. Installer shall be employee of the supplying company.
  - 3. Manufacturer Sourcing Qualifications:
    - a. Obtain each type of door hardware (hinges, latch and locksets, exit devices, closers, etc.) from a single manufacturer, although several may be indicated as offering products complying with requirements.

#### 1.08 DELIVERY, STORAGE, AND HANDLING

- A. Marking and Packaging: Package hardware items manufacturer's standard packaging, clearly marked with hardware set number correlating to door hardware schedule and architect's door number.
- B. Delivery and Acceptance: Coordinate with construction schedule and deliver packaged hardware items to place of installation (e.g. project site, fabrication shop). Upon delivery, inspect and inventory door hardware. Immediately notify supplier of defective or missing items.

- 1. Deliver keys and cores to owner by registered mail or overnight package service. Ship keys separately from cores.
- C. Storage and Handling:
  - 1. Provide secure, dry storage area for door hardware delivered to the project site, but not yet installed. Store items on shelves or pallets to prevent damage.
  - 2. Control handling and installation of hardware items that are not immediately replaceable so that completion of work will not be delayed by hardware losses both before and after installation.

#### 1.09 WARRANTY

A. General Warranty: Warrant door hardware against defects in material and workmanship as set forth in Section 01 7000 - Execution and Closeout Requirements.

#### PART 2 PRODUCTS

#### 2.01 MANUFACTURERS

A. Approved Manufacturer's: Products by manufacturers listed under acceptable substitutions may be incorporated into the work contingent upon the provided product complying with all requirements indicated within this section.

).
).
).
PRE).
ГА).
A).

#### 2.02 GENERAL MATERIALS

A. Fasteners: Provide fasteners for each hardware item and application as recommended by the hardware manufacturer. Finish of fasteners shall match adjacent hardware and shall be concealed wherever possible. Where sets indicate hardware is to be supplied with security screws, provide manufacturer's recommended fastener with a torx-drive head.

#### 2.03 HINGES

A. Provide knuckle hinges for exterior doors to be constructed of either stainless steel or brass with stainless steel pins. Hinges for interior doors shall be constructed of either steel or stainless steel. Provide hinge with grade, number of knuckles, and type (e.g. full mortise) as scheduled. Provide hinge with non-removable pin (NRP) at reverse-handed doors scheduled with locking hardware.

- Provide hinges meeting ANSI/BHMA A156 grade 2 or 3 as scheduled. Provide minimal hinge B. width required to allow hinge barrel to clear jamb and trim and allow door to swing 180 degrees. Provide hinge height and grade as follows except where hardware schedules specifically call out sizing or hinge grade:
  - **Residence Unit Interior Doors:** 1. 3-1/2 inch hinge, Grade 3 4-1/2 inch hinge, Grade 2
  - 2. Interior Doors, up to 36 inches wide:
  - Interior Doors, over 36 inches wide: 3.

5 inch hinge, Grade 1 4-1/2 inch hinge, Grade 1

- Exterior Doors, up to 36 inches wide: 4. 5. Exterior Doors, over 36 inches wide:

  - 5 inch hinge, Grade 1
- C. Provide a minimum of 2 hinges per door leaf. For door leafs exceeding 60 inches in height, provide a minimum of 1 hinge for every 30 inches or portion thereof.
- D. Basis of Design Products:
  - 1. Grade 1: Ives 5BB1HW.
  - 2. Grade 2: Ives 5BB1.
  - Grade 3: Ives 5PB1. 3.

#### 2.04 LOCKS & LATCHES

- A. General:
  - Provide locks and latches at fire rated doors with a minimum listing by UL or other testing 1. agency as matches the required opening rating.
  - Locks and latches shall all comply with accessibility requirements and shall not require 2. tight grasping, pinching, or turning of the wrist.
  - 3. Provide keyed locks with cylinder preparations that are compatible with the cylinder / core types specified within this section.
  - Provide locks with standard ANSI strike plates with curved lips (extended as appropriate 4. to extend just beyond face of frame/trim).
  - Provide Mortise locks and latches that meet ANSI/BHMA A156.13, Series 1000, and 5. Grade 1.
  - Provide cylindrical/tubular locks and latches that meet the indicated ANSI/BHMA 6. A156.2, Series 4000 grade.
- Basis of Design Products: B.
  - 1. Mortise Locks: Falcon MA Series w/ Occupancy Indicator.
  - Grade 1 Cylindrical Locks: Falcon T Series. 2.

#### 2.05 EXIT DEVICES & ACCESSORIES

- A. Provide conventional push pad type exit device complying with ANSI A156.3 Grade 1. Where scheduled at doors exceeding 36 inches in width, provide device designed for wide doors. Where scheduled at fire rated doors, provide device labeled as "Fire Exit Hardware". Where required by the stile-width, provide narrow-stile type device.
- B. Basis of Design Products

#### NATIONAL ABILITY CENTER EQUESTRIAN CENTER EXPANSION

1. Falcon 25 Series (24 Series where required for narrow/medium stile doors).

#### 2.06 CYLINDERS & KEYING

- A. Construction Key System: Provide temporary, keyed-alike, construction cores at exterior doors for the duration of the construction period. Provide sufficient keys that access to site for necessary construction activity and personnel will not be impeded. Construction cores will remain property of the contractor and will be returned upon installation of permanent key system at substantial completion.
- B. Permanent Key System: Provide a new key system utilizing lock manufacturer's restricted 6pin, interchangeable core type cylinder housings of type and tailpiece/cam required for compatibility with locking hardware. Provide permanent cores that are factory keyed with utility patented and factory restricted keyway requiring authorized signature for key duplication. Provide cores with concealed permanent markings designating the appropriate key symbol. Provide 2 cut keys for every core provided. Keys shall all be stamped with appropriate key symbol and master keys shall also be stamped with the key system registry number. Design key system as directed by owner's representative in keying meeting. Keys and cores shall be shipped directly from the factory to the owner's representative in separate shipments.
  - 1. Installation of Permanent Key System: Upon substantial completion, contractor shall assist owner in removal of construction cores and installation of permanent key system.
- C. Basis of Design Products:
  - 1. Schlage Everest 29T Series FSIC.

#### 2.07 SURFACE DOOR CLOSERS

- A. Provide surface closers certified to ANSI/BHMA A156.4 Grade 1, with body constructed of cast iron or cast aluminum. Closers shall not use Pressure Relief Valves. Provide closer with universal screw packs that include through-bolts, wood screws, and template machine screws.
- B. Basis of Design Products:
  - 1. Falcon SC70 Series.

#### 2.08 AUTOMATIC OPERATORS & ACCESSORIES

- A. Electro-Mechanical Operators: Provide low-energy electro-mechanical type automatic operator complying with ANSI/BHMA A156.19. Operator shall operate via DC motor through reduction gears. Manual, hydraulic, or chain drive operators are not permitted. Provide operator that can be manually operated without damage to the unit. Operator shall have variable adjustments for opening and closing speed.
  - 1. Provide units with manual on/off/hold open switch, electric lock delay, hold-open delay adjustible from 2 to 30 secongs, logic terminal to interface with accessories and sensors.
  - 2. Unit shall have power boost feature to compensate for high stack pressures or high wind pressure.

- 3. Provide brackets, adapters, or any other required installation accessories for compatibility with mounting details.
- 4. Provide complete assemblies of controls, switches, power supplies, relays, and parts/material recommended and approved by manufacturer of automatic operator for each individual leaf.
- B. Actuators & Switches: Provide pressure plate type, hardwired actuator switches. Where actuator mounts on bollard or wall, provide 4-1/2 inch square actuator. Where actuator switch mounts to mullions or door frames, provide narrow actuator. At exterior locations, provide actuator with weather ring.
- C. Basis of Design Products:
  - 1. Automatic Operator: LCN Senior Swing 9500 Series.
  - 2. Actuator Switches: LCN 8310 Series.

#### 2.09 DOOR STOPS & HOLDERS

- A. Wall Stop: Where door swings against wall that is reinforced with blocking for stop, provide wall-mounted stop.
  - 1. Exception: Do not provide wall stops where stop would mount to an exterior facing wall.
  - 2. Provide wall stops with convex rubber bumper at locksets with push and/or turn buttons within the lever. Otherwise, provide concave rubber bumpers.
- B. Floor Stop: Provide floor stop where conditions do not comply with requirements for wall stop, and floor stop can be mounted such that a tripping hazard is not created while door is closed.
  - 1. Exception: Do not provide floor stops in locations where flooring is tile or rubber resilient flooring or where floor stop would mount in areas exposed to snowy or icy weather.
  - 2. Where floor stop requires riser at threshold locations, provide floor stop with appropriate riser.
- C. Overhead Stops: Where conditions are not appropriate for wall stops or floor stops, provide overhead stops.
  - 1. Unless otherwise scheduled, provide surface mounted overhead stops at hollow metal, wood, and fiberglass type doors and concealed overhead stops at storefront type doors.
  - 2. Where door is to have both surface overhead stops and push-side mounted door closers, compression stop type closer arm may be provided in lieu of surface overhead stop except in doors with frames manufactured of aluminum.
- D. Basis of Design Products:
  - 1. Interior Wall Stops: Ives WS406/407 Series.
  - 2. Exterior Floor Stops: Ives FS444 Series.
  - 3. Interior Floor Stops: Ives FS439 Series.
  - 4. Exterior Concealed Overhead Stops: Glynn Johnson 100 ADJ Series.
  - 5. Exterior Surface Overhead Stops: Glynn Johnson 90 Series.
  - 6. Interior Concealed Overhead Stops: Glynn Johnson 410 Series.
  - 7. Interior Surface Overhead Stops: Glynn Johnson 450 Series.

#### 2.10 THRESHOLDS & GASKETING

- A. Where scheduled, provide the indicated gasketing with length sufficient to provide a continuous seal around the opening. Where doors and frames are provided as a pre-hung assembly, provide assembly manufacturer's standard gasketing.
- B. Provide thresholds and gasketing as scheduled or any BHMA equivalent product.

#### PART 3 EXECUTION

- A. General
  - 1. Install door hardware as detailed in the approved hardware schedule using only approved fasteners and in accordance with manufacturer's recommended procedures and methods.
  - 2. Install hardware and signage at fire rated openings in accordance with NFPA 80 requirements.
- B. Maximum Gap Clearance: Install doors and frames such that gap clearances do not exceed the measurements listed below for any application. These clearances comply with NFPA requirements for smoke and fire rated openings:
  - 1. Between Door and Frame Head and Jambs: 1/8 inch for wood doors, 3/16 inch for metallic doors.
  - 2. Between Paired Door Meeting Stiles: 1/8 inch.
  - 3. Door Undercut: 3/4 inch.
- C. Hardware Mounting Heights: Mount door hardware units at hollow metal door manufacturer's standard heights.
- D. Surface Mounted Door Closers: Install surface mounted door closers on room side of openings, except where prohibited by scheduled hardware. Use appropriate arms, spacers, brackets, and accessories to properly install surface mounted door closers. Adjust spring power to the appropriate setting to ensure the doors reliably close under normal operating conditions. Utilize the following installation methods to install closers:
  - 1. Metallic doors: Drill and tap holes and install closers using template machine screws. Selfdrilling and tapping screws are prohibited.
  - 2. Reinforced wood doors and wood frames: Drill pilot holes and install closers using threaded to the head wood screws. Self-piloting screws are prohibited.
  - 3. Non-Reinforced wood doors: Drill holes and install closers using through bolt fasteners.
- E. Protection Plates: Where plates greater than 16 inches in height are to be installed on fire rated openings, install using plate manufacturer's recommended adhesive in lieu of mechanical fasteners.
- F. Wall Mounted Door Stops And Holders
  - 1. Locate wall mounted door stops at the appropriate height and location to properly contact protruding door trim.
  - 2. Where indicated in the HW Sets, mount floor stops at exterior doors as a wall stop.

- G. Gasketing: Install gasketing to provide a continuous seal around the perimeter of the opening. Install soffit mounted hardware using the proper brackets, spacers, and accessories to allow proper installation without cutting or notching gasketing material or mounting channels.
- H. Overlapping Astragals
  - 1. Install astragals at exterior doors using thru-bolts.
  - 2. Where overlapping astragals are scheduled on out-swinging doors, provide for mounting on the pull-side of the active leaf. Otherwise, provide for mounting on the push-side of the inactive leaf.
  - 3. Notching astragal is not acceptable. Where strike lip conflicts with astragal, provide strike as specified in "Locks and Latches" article of this section.
- I. Thresholds and Saddles: Trim, cut, and notch thresholds and saddles neatly to minimally fit the profile of the door frame. Thresholds and saddles shall be set in full bed of butyl-rubber or polyisobutylene mastic sealant.

#### 3.02 FIELD QUALITY CONTROL

- A. Architectural Hardware Consultant: Architect will engage a qualified Architectural Hardware Consultant to perform inspections and to prepare inspection reports.
- B. Architectural Hardware Consultant will inspect door hardware and state in each report whether installed work complies with or deviates from requirements, including whether door hardware is properly installed and adjusted.

#### 3.03 ADJUSTING

- A. After building HVAC system is balanced and adjusted, conduct final adjustment of door closers. Verify spring power of the surface mounted door closer is properly adjusted to close and latch the door and to comply with the opening force requirements of ANSI A117.1 as follows:
  - 1. Doors with Closers shall take five (5) seconds to close from 90 degrees to 12 degrees.
  - 2. Interior, non-fire rated swinging doors shall open with a maximum of 5 lbs of pressure.
  - 3. Exterior doors and fire rated doors shall open with the minimum amount of pressure required to positively close and latch the door.

#### 3.04 CLEANING AND PROTECTION

- A. Clean adjacent surfaces soiled by door hardware installation.
- B. Clean operating items as necessary to restore proper function and finish.
- C. Provide final protection and maintain conditions that ensure that door hardware is without damage or deterioration at time of Substantial Completion.

1 SET	EXTERIOR HINGE(S)	5BB1HW SERIES	630	IVE
1 EA	KEY PAD LOCK	CO-100-CY-70-KP-RHO-JD	626	SCE
1 SET	PERMANENT CORE(S)	23-030 CKC EV29T	626	SCH
1 SET	CONSTRUCTION	23-030-ICX	626	SCH
	CORE(S)			
1 EA	OVERHEAD STOP	90S	630	GLY
1 EA	SURFACE CLOSER	SC71A DS	689	FAL
1 SET	CLOSER BRACKET(S)	AS REQUIRED TO INSTALL CLOSER	689	FAL
1 EA	KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE
1 EA	GASKETING	429 SERIES	719	ZER
1 EA	DOOR SWEEP	39 SERIES	719	ZER
1 EA	THRESHOLD	656 SERIES	719	ZER
1 EA	RAIN DRIP	142 SERIES	719	ZER

#### Hardware Group No. 101

1 SET	EXTERIOR HINGE(S)	5BB1 SERIES (HW AS REQ'D)	630	IVE
1 EA	STOREROOM LOCK	T581J DANE	626	FAL
1 SET	PERMANENT CORE(S)	23-030 CKC EV29T	626	SCH
1 SET	CONSTRUCTION	23-030-ICX	626	SCH
	CORE(S)			
1 EA	SURFACE CLOSER	SC81A SS	689	FAL
1 EA	GASKETING	429 SERIES	719	ZER
1 EA	DOOR SWEEP	39 SERIES	719	ZER
1 EA	THRESHOLD	656 SERIES	719	ZER

EVTEDIOD HINGE(S)	5PP1 SEDIES (HW/ AS DECID)	630	WE
EXTERIOR IIINOE(3)	JDDT SERIES (TW AS REQ D)	030	IVE
STOREROOM LOCK	T581J DANE	626	FAL
PERMANENT CORE(S)	23-030 CKC EV29T	626	SCH
CONSTRUCTION	23-030-ICX	626	SCH
CORE(S)			
SURFACE CLOSER	SC81A RW/PA	689	FAL
DOOR STOP	WS407 SERIES / FS439	630	IVE
GASKETING	429 SERIES	719	ZER
DOOR SWEEP	39 SERIES	719	ZER
THRESHOLD	656 SERIES	719	ZER
	EXTERIOR HINGE(S) STOREROOM LOCK PERMANENT CORE(S) CONSTRUCTION CORE(S) SURFACE CLOSER DOOR STOP GASKETING DOOR SWEEP THRESHOLD	EXTERIOR HINGE(S)5BB1 SERIES (HW AS REQ'D)STOREROOM LOCKT581J DANEPERMANENT CORE(S)23-030 CKC EV29TCONSTRUCTION23-030-ICXCORE(S)SC81A RW/PADOOR STOPWS407 SERIES / FS439GASKETING429 SERIESDOOR SWEEP39 SERIESTHRESHOLD656 SERIES	EXTERIOR HINGE(S)       5BB1 SERIES (HW AS REQ'D)       630         STOREROOM LOCK       T581J DANE       626         PERMANENT CORE(S)       23-030 CKC EV29T       626         CONSTRUCTION       23-030-ICX       626         CORE(S)       500       626         SURFACE CLOSER       SC81A RW/PA       689         DOOR STOP       WS407 SERIES / FS439       630         GASKETING       429 SERIES       719         DOOR SWEEP       39 SERIES       719         THRESHOLD       656 SERIES       719

EXTERIOR HINGE(S)	5BB1 SERIES (HW AS REQ'D)	630	IVE
ENTRY / OFFICE LOCK	T511J DANE	626	FAL
PERMANENT CORE(S)	23-030 CKC EV29T	626	SCH
CONSTRUCTION	23-030-ICX	626	SCH
CORE(S)			
SURFACE CLOSER	SC71A SSHO	689	FAL
KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE
GASKETING	429 SERIES	719	ZER
DOOR SWEEP	39 SERIES	719	ZER
THRESHOLD	656 SERIES	719	ZER
	EXTERIOR HINGE(S) ENTRY / OFFICE LOCK PERMANENT CORE(S) CONSTRUCTION CORE(S) SURFACE CLOSER KICK PLATE GASKETING DOOR SWEEP THRESHOLD	EXTERIOR HINGE(S)5BB1 SERIES (HW AS REQ'D)ENTRY / OFFICE LOCKT511J DANEPERMANENT CORE(S)23-030 CKC EV29TCONSTRUCTION23-030-ICXCORE(S)SURFACE CLOSERSURFACE CLOSERSC71A SSHOKICK PLATE8400 10" X 2" LDW B-CSGASKETING429 SERIESDOOR SWEEP39 SERIESTHRESHOLD656 SERIES	EXTERIOR HINGE(S)5BB1 SERIES (HW AS REQ'D)630ENTRY / OFFICE LOCKT511J DANE626PERMANENT CORE(S)23-030 CKC EV29T626CONSTRUCTION23-030-ICX626CORE(S)SURFACE CLOSERSC71A SSHOKICK PLATE8400 10" X 2" LDW B-CS630GASKETING429 SERIES719DOOR SWEEP39 SERIES719THRESHOLD656 SERIES719

#### Hardware Group No. 104

1 SET	EXTERIOR HINGE(S)	5BB1HW SERIES	630	IVE
1 EA	PANIC HARDWARE	CD-25-R-NL	626	FAL
1 SET	FSIC CYLINDER	AS REQUIRED BY LOCKING	626	SCH
	HOUSING(S)	HARDWARE		
SET	PERMANENT CORE(S)	23-030 CKC EV29T	626	SCH
SET	CONSTRUCTION	23-030-ICX	626	SCH
	CORE(S)			
1 EA	SURFACE CLOSER	SC71A SS	689	FAL
1 EA	KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE
EA	GASKETING	429 SERIES	719	ZER
1 EA	DOOR SWEEP	<b>39 SERIES</b>	719	ZER
EA	THRESHOLD	656 SERIES	719	ZER

#### Hardware Group No. 201

1 SET	INTERIOR HINGE(S)	5BB1 SERIES (HW AS REQ'D)		652	IVE
1 EA	PUSH PLATE	8200 6" X 16"		630	IVE
1 EA	PULL PLATE	8303 10" 4" X 16"		630	IVE
1 EA	AUTOMATIC OPERATOR	9542 MS	×	628	LCN
1 EA	TOUCHLESS ACTUATOR	8310-813	×	630	LCN
1 EA	INTERIOR ACTUATOR	8310-853T	×	630	LCN
1 EA	KICK PLATE	8400 10" X 2" LDW B-CS		630	IVE
1 EA	DOOR STOP	WS407 SERIES / FS439		630	IVE
1 EA	SILENCER SET	SR60 SERIES		GRY	IVE
1 EA	120VAC POWER	BY DIVISION 26	×		B/O
1 SET	CONDUIT & RACEWAY	BY DIVISION 26 / DIVISION 28	×		B/O
1 SET	WIRING &	BY DIVISION 26 / DIVISION 28	×		B/O
	CONNECTIONS				
1 SET	WIRING DIAGRAMS	<b>RISER/ELEVATION &amp; SCHEMATIC</b>	×		DLR

A) BOTH ACTUATORS ALWAYS ENABLED.

1 SET	INTERIOR HINGE(S)	5BB1HW SERIES	652	IVE
1 EA	PANIC HARDWARE	CD-25-R-L-DANE	626	FAL
1 EA	T-TURN DOGGING CYL.	09-900 NH XB11-720	626	SCH
1 SET	FSIC CYLINDER	AS REQUIRED BY LOCKING	626	SCH
	HOUSING(S)	HARDWARE		
1 SET	PERMANENT CORE(S)	23-030 CKC EV29T	626	SCH
1 SET	CONSTRUCTION	23-030-ICX	626	SCH
	CORE(S)			
1 EA	SURFACE CLOSER	SC71A HW/PA	689	FAL
1 EA	KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE
1 EA	DOOR STOP	WS407 SERIES / FS439	630	IVE
1 EA	GASKETING	488S SERIES	BK	ZER

#### Hardware Group No. 203

2 SET	INTERIOR HINGE(S)	5BB1 SERIES (HW AS REO'D)	652	IVF
2 5L1			052	IVL
1 EA	MANUAL FLUSH BOLT	FB458 / FB358	626	IVE
1 EA	STOREROOM LOCK	T581J DANE	626	FAL
1 SET	PERMANENT CORE(S)	23-030 CKC EV29T	626	SCH
1 SET	CONSTRUCTION	23-030-ICX	626	SCH
	CORE(S)			
2 EA	DOOR STOP	WS407 SERIES / FS439	630	IVE
1 SET	REMAINING	BY DOOR/FRAME MANUFACTURER		B/O
	HARDWARE			

1 SET	INTERIOR HINGE(S)	5BB1 SERIES (HW AS REQ'D)	652	IVE
1 EA	STOREROOM LOCK	T581J DANE	626	FAL
1 SET	PERMANENT CORE(S)	23-030 CKC EV29T	626	SCH
1 SET	CONSTRUCTION	23-030-ICX	626	SCH
	CORE(S)			
1 EA	SURFACE CLOSER	SC71A RW/PA	689	FAL
1 EA	DOOR STOP	WS407 SERIES / FS439	630	IVE
1 SET	REMAINING	BY DOOR/FRAME MANUFACTURER		B/O
	HARDWARE			

1 SET	INTERIOR HINGE(S)	5BB1 SERIES (HW AS REQ'D)	652	IVE
1 EA	STOREROOM LOCK	T581J DANE	626	FAL
1 SET	PERMANENT CORE(S)	23-030 CKC EV29T	626	SCH
1 SET	CONSTRUCTION	23-030-ICX	626	SCH
	CORE(S)			
1 EA	SURFACE CLOSER	SC71A RW/PA	689	FAL
1 EA	DOOR STOP	WS407 SERIES / FS439	630	IVE
1 EA	GASKETING	488S SERIES	BK	ZER

#### Hardware Group No. 206

1 SET	INTERIOR HINGE(S)	5BB1 SERIES (HW AS REQ'D)	652	IVE
1 EA	STOREROOM LOCK	T581J DANE	626	FAL
1 SET	PERMANENT CORE(S)	23-030 CKC EV29T	626	SCH
1 SET	CONSTRUCTION	23-030-ICX	626	SCH
	CORE(S)			
1 EA	DOOR STOP	WS407 SERIES / FS439	630	IVE
1 EA	SILENCER SET	SR60 SERIES	GRY	IVE

INTERIOR HINGE(S)	5BB1 SERIES (HW AS REQ'D)	652	IVE
ENTRY / OFFICE LOCK	T511J DANE	626	FAL
PERMANENT CORE(S)	23-030 CKC EV29T	626	SCH
CONSTRUCTION	23-030-ICX	626	SCH
CORE(S)			
OH STOP	450S	630	GLY
SURFACE CLOSER	SC71A RW/PA	689	FAL
KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE
SILENCER SET	SR60 SERIES	GRY	IVE
	INTERIOR HINGE(S) ENTRY / OFFICE LOCK PERMANENT CORE(S) CONSTRUCTION CORE(S) OH STOP SURFACE CLOSER KICK PLATE SILENCER SET	INTERIOR HINGE(S)5BB1 SERIES (HW AS REQ'D)ENTRY / OFFICE LOCKT511J DANEPERMANENT CORE(S)23-030 CKC EV29TCONSTRUCTION23-030-ICXCORE(S)450SOH STOP450SSURFACE CLOSERSC71A RW/PAKICK PLATE8400 10" X 2" LDW B-CSSILENCER SETSR60 SERIES	INTERIOR HINGE(S)         5BB1 SERIES (HW AS REQ'D)         652           ENTRY / OFFICE LOCK         T511J DANE         626           PERMANENT CORE(S)         23-030 CKC EV29T         626           CONSTRUCTION         23-030-ICX         626           CORE(S)         630         630           SURFACE CLOSER         SC71A RW/PA         689           KICK PLATE         8400 10" X 2" LDW B-CS         630           SILENCER SET         SR60 SERIES         GRY

INTERIOR HINGE(S)	5BB1 SERIES (HW AS REQ'D)	652	IVE
ENTRY / OFFICE LOCK	T511J DANE	626	FAL
PERMANENT CORE(S)	23-030 CKC EV29T	626	SCH
CONSTRUCTION	23-030-ICX	626	SCH
CORE(S)			
SURFACE CLOSER	SC71A RW/PA	689	FAL
KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE
DOOR STOP	WS407 SERIES / FS439	630	IVE
SILENCER SET	SR60 SERIES	GRY	IVE
	INTERIOR HINGE(S) ENTRY / OFFICE LOCK PERMANENT CORE(S) CONSTRUCTION CORE(S) SURFACE CLOSER KICK PLATE DOOR STOP SILENCER SET	INTERIOR HINGE(S)5BB1 SERIES (HW AS REQ'D)ENTRY / OFFICE LOCKT511J DANEPERMANENT CORE(S)23-030 CKC EV29TCONSTRUCTION23-030-ICXCORE(S)SURFACE CLOSERSURFACE CLOSERSC71A RW/PAKICK PLATE8400 10" X 2" LDW B-CSDOOR STOPWS407 SERIES / FS439SILENCER SETSR60 SERIES	INTERIOR HINGE(S)5BB1 SERIES (HW AS REQ'D)652ENTRY / OFFICE LOCKT511J DANE626PERMANENT CORE(S)23-030 CKC EV29T626CONSTRUCTION23-030-ICX626CORE(S)SURFACE CLOSERSC71A RW/PA689KICK PLATE8400 10" X 2" LDW B-CS630DOOR STOPWS407 SERIES / FS439630SILENCER SETSR60 SERIESGRY

#### Hardware Group No. 209

1 SET	INTERIOR HINGE(S)	5BB1 SERIES (HW AS REQ'D)	652	IVE
1 EA	ENTRY / OFFICE LOCK	T511J DANE	626	FAL
1 SET	PERMANENT CORE(S)	23-030 CKC EV29T	626	SCH
1 SET	CONSTRUCTION	23-030-ICX	626	SCH
	CORE(S)			
1 EA	SURFACE CLOSER	SC71A HW/PA	689	FAL
1 EA	KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE
1 EA	DOOR STOP	WS407 SERIES / FS439	630	IVE
1 EA	GASKETING	488S SERIES	BK	ZER

1 SET	INTERIOR HINGE(S)	5BB1 SERIES (HW AS REQ'D)	652	IVE
1 EA	PRIVACY LOCK	MA321 OCCUPIED/VACANT DGM	626	FAL
1 EA	SURFACE CLOSER	SC81A RW/PA	689	FAL
1 EA	KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE
1 EA	DOOR STOP	WS407 SERIES / FS439	630	IVE
1 EA	GASKETING	488S SERIES	BK	ZER

1 SET	INTERIOR HINGE(S)	5BB1 SERIES (HW AS REQ'D)	652	IVE
1 EA	PASSAGE SET	T101S DANE	626	FAL
1 EA	DOOR STOP	WS407 SERIES / FS439	630	IVE
1 EA	GASKETING	488S SERIES	BK	ZER

#### Hardware Group No. 212

1 SET	INTERIOR HINGE(S)	5BB1 SERIES (HW AS REQ'D)	652	IVE
1 EA	PASSAGE SET	T101S DANE	626	FAL
1 EA	SURFACE CLOSER	SC81A RW/PA	689	FAL
1 EA	KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE
1 EA	DOOR STOP	WS407 SERIES / FS439	630	IVE
1 EA	GASKETING	488S SERIES	BK	ZER

#### Hardware Group No. AS-101

1 EA	CONTINUOUS HINGE	112HD		628	IVE
1 EA	CONTINUOUS HINGE	112HD TWP	×	628	IVE
1 EA	PANIC HARDWARE	CD-24-C-EO		626	FAL
1 EA	PANIC HARDWARE	LM-CD-24-C-C-718	×	626	FAL
2 EA	T-TURN DOGGING CYL.	09-900 NH XB11-720		626	SCH
1 SET	FSIC CYLINDER	AS REQUIRED BY LOCKING		626	SCH
	HOUSING(S)	HARDWARE			
1 SET	PERMANENT CORE(S)	23-030 CKC EV29T		626	SCH
1 SET	CONSTRUCTION	23-030-ICX		626	SCH
	CORE(S)				
2 EA	OFFSET PULL	8190HD 10" STD		630	IVE
1 EA	AUTOMATIC OPERATOR	9553 REG2 MS	×	628	LCN
2 EA	NARROW STILE	8310-818T	N	630	LCN
	ACTUATOR				
1 SET	HEAD & JAMB GASKET	STOREFRONT MFR STD		TBD	B/O
1 SET	MEETING EDGE GASKET	STOREFRONT MFR STD		TBD	B/O
2 EA	DOOR SWEEP	8192 SERIES		628	ZER
1 EA	THRESHOLD	654 SERIES		719	ZER
1 EA	120VAC POWER	BY DIVISION 26	N		B/O
1 SET	CONDUIT & RACEWAY	BY DIVISION 26 / DIVISION 28	×		B/O
1 SET	WIRING &	BY DIVISION 26 / DIVISION 28	×		B/O
	CONNECTIONS				
1 SET	WIRING DIAGRAMS	<b>RISER/ELEVATION &amp; SCHEMATIC</b>	×		DLR

## A) LM SWITCH IN PANIC HARDWARE DISABLES BOTH ACTUATORS WHEN DOOR IS LATCHED.

#### Hardware Group No. AS-102

2 EA	CONTINUOUS HINGE	112HD		628	IVE
2 EA	MORTISE CYLINDER	250		626	FAL
2 EA	OFFSET PULL	8190HD 10" STD		630	IVE
1 EA	AUTOMATIC OPERATOR	9553 REG2 MS	×	628	LCN
2 EA	NARROW STILE	8310-818T	×	630	LCN
	ACTUATOR				
1 SET	HEAD & JAMB GASKET	STOREFRONT MFR STD		TBD	B/O
1 SET	MEETING EDGE GASKET	STOREFRONT MFR STD		TBD	B/O
1 EA	120VAC POWER	BY DIVISION 26	N		B/O
1 SET	CONDUIT & RACEWAY	BY DIVISION 26 / DIVISION 28	N		B/O
1 SET	WIRING &	BY DIVISION 26 / DIVISION 28	N		B/O
	CONNECTIONS				
1 SET	WIRING DIAGRAMS	<b>RISER/ELEVATION &amp; SCHEMATIC</b>	N		DLR

A) BOTH ACTUATORS ARE ALWAYS ENABLED.

#### Hardware Group No. AS-103

1 EA	CONTINUOUS HINGE	112HD		628	IVE
1 EA	PANIC HARDWARE	CD-24-R-NL-OP		626	FAL
1 EA	MONITOR STRIKE	4263 SERIES	N	626	VON
1 EA	T-TURN DOGGING CYL.	09-900 NH XB11-720		626	SCH
1 SET	FSIC CYLINDER	AS REQUIRED BY LOCKING		626	SCH
	HOUSING(S)	HARDWARE			
1 SET	PERMANENT CORE(S)	23-030 CKC EV29T		626	SCH
1 SET	CONSTRUCTION	23-030-ICX		626	SCH
	CORE(S)				
1 EA	OFFSET PULL	8190HD 10" STD		630	IVE
1 EA	AUTOMATIC OPERATOR	9542 MS	×	628	LCN
2 EA	NARROW STILE	8310-818T	×	630	LCN
	ACTUATOR				
1 SET	HEAD & JAMB GASKET	STOREFRONT MFR STD		TBD	B/O
1 EA	DOOR SWEEP	8192 SERIES		628	ZER
1 EA	THRESHOLD	654 SERIES		719	ZER
1 EA	120VAC POWER	BY DIVISION 26	×		B/O
1 SET	CONDUIT & RACEWAY	BY DIVISION 26 / DIVISION 28	×		B/O
1 SET	WIRING &	BY DIVISION 26 / DIVISION 28	N		B/O
	CONNECTIONS				
1 SET	WIRING DIAGRAMS	<b>RISER/ELEVATION &amp; SCHEMATIC</b>	N		DLR

A) LM SWITCH IN PANIC HARDWARE DISABLES BOTH ACTUATORS WHEN DOOR IS LATCHED.

#### Hardware Group No. AS-104

1 EA	CONTINUOUS HINGE	112HD		628	IVE
1 EA	DUMMY PUSH BAR	250DT		626	FAL
1 EA	OFFSET PULL	8190HD 10" STD		630	IVE
1 EA	AUTOMATIC OPERATOR	9542 MS	×	628	LCN
2 EA	NARROW STILE	8310-818T	N	630	LCN
	ACTUATOR				
1 SET	HEAD & JAMB GASKET	STOREFRONT MFR STD		TBD	B/O
1 EA	120VAC POWER	BY DIVISION 26	×		B/O
1 SET	CONDUIT & RACEWAY	BY DIVISION 26 / DIVISION 28	N		B/O
1 SET	WIRING &	BY DIVISION 26 / DIVISION 28	N		B/O
	CONNECTIONS				
1 SET	WIRING DIAGRAMS	<b>RISER/ELEVATION &amp; SCHEMATIC</b>	N		DLR

A) BOTH ACTUATORS ARE ALWAYS ENABLED.

#### Hardware Group No. AS-105

1 EA	CONTINUOUS HINGE	112HD		628	IVE
1 EA	CLASSROOM LOCK	8845 SERIES X SCHLAGE 06A TRIM		626	ACC
1 SET	FSIC CYLINDER	AS REQUIRED BY LOCKING		626	SCH
	HOUSING(S)	HARDWARE			
1 SET	PERMANENT CORE(S)	23-030 CKC EV29T		626	SCH
1 SET	CONSTRUCTION	23-030-ICX		626	SCH
	CORE(S)				
1 EA	ELECTRIC STRIKE	6211 FSE 24VDC	N	630	VON
1 EA	AUTOMATIC OPERATOR	9542 MS	N	628	LCN
2 EA	NARROW STILE	8310-818T	N	630	LCN
	ACTUATOR				
1 SET	HEAD & JAMB GASKET	STOREFRONT MFR STD		TBD	B/O
1 EA	DOOR SWEEP	8192 SERIES		628	ZER
1 EA	THRESHOLD	654 SERIES		719	ZER
1 EA	KEY SWITCH	653-04 L2		630	SCE
1 EA	120VAC POWER	BY DIVISION 26	N		B/O
1 SET	CONDUIT & RACEWAY	BY DIVISION 26 / DIVISION 28	N		B/O
1 SET	WIRING &	BY DIVISION 26 / DIVISION 28	N		B/O
	CONNECTIONS				
1 SET	WIRING DIAGRAMS	<b>RISER/ELEVATION &amp; SCHEMATIC</b>	×		DLR

A) ELECTRIC STRIKE POWERED BY POWER TRANSFORMER ON BOARD AUTOMATIC OPERATOR.

B) KEYSWITCH ENABLES/DISABLES BOTH ACTUATORS.

#### Hardware Group No. AS-201

1 EA	CONTINUOUS HINGE	112HD		628	IVE
1 EA	CLASSROOM LOCK	8845 SERIES X SCHLAGE 06A TRIM		626	ACC
1 SET	FSIC CYLINDER	AS REQUIRED BY LOCKING		626	SCH
	HOUSING(S)	HARDWARE			
1 SET	PERMANENT CORE(S)	23-030 CKC EV29T		626	SCH
1 SET	CONSTRUCTION	23-030-ICX		626	SCH
	CORE(S)				
1 EA	ELECTRIC STRIKE	6211 FSE 24VDC	N	630	VON
1 EA	AUTOMATIC OPERATOR	9542 MS	N	628	LCN
2 EA	NARROW STILE	8310-818T	N	630	LCN
	ACTUATOR				
1 SET	HEAD & JAMB GASKET	STOREFRONT MFR STD		TBD	B/O
1 EA	KEY SWITCH	653-04 L2		630	SCE
1 EA	120VAC POWER	BY DIVISION 26	N		B/O
1 SET	CONDUIT & RACEWAY	BY DIVISION 26 / DIVISION 28	N		B/O
1 SET	WIRING &	BY DIVISION 26 / DIVISION 28	×		B/O
	CONNECTIONS				
1 SET	WIRING DIAGRAMS	<b>RISER/ELEVATION &amp; SCHEMATIC</b>	N		DLR

## A) ELECTRIC STRIKE POWERED BY POWER TRANSFORMER ON BOARD AUTOMATIC OPERATOR.

B) KEYSWITCH ENABLES/DISABLES BOTH ACTUATORS.

#### Hardware Group No. FLD-200

1 SET ALL HARDWARE DOOR MFR STD	B/O
---------------------------------	-----

#### Hardware Group No. OHD-100

1 SET	FSIC CYLINDER	AS REQUIRED BY LOCKING	626	SCH
	HOUSING(S)	HARDWARE		
1 SET	PERMANENT CORE(S)	23-030 CKC EV29T	626	SCH
1 SET	CONSTRUCTION	23-030-ICX	626	SCH
	CORE(S)			
1 SET	REMAINING	BY DOOR/FRAME MANUFACTURER		B/O
	HARDWARE			

#### **END SECTION**

#### SECTION 230810 - VARIABLE FREQUENCY DRIVE

PART 1 - GENERAL

#### 1.1 WORK INCLUDED

- A. The contractor shall furnish and install a complete Variable Frequency Drive and Energy Efficient motor system on the following equipment as described in this specification and as indicated on the drawings.
  - 1. Air handler supply fans
- B. The Variable Frequency Drive shall convert 208 volt, three phase, 60 Hz utility power to adjustable voltage and frequency, three phase, A-C power for stepless motor control from 6 to 60 Hz.
- C. This contractor shall coordinate motor selection with Variable Frequency Drive.
- D. Variable Frequency Drive Systems shall be compatible with any standard NEMA B or C design 3-phase induction motor. Variable Frequency Drive Systems shall be sized to insure the motor full load amps does not exceed the controller continuous RMS amps at project altitude (7500 ft.).

#### 1.2 QUALITY ASSURANCE

- A. The equipment supplied under this specification shall conform to the latest applicable codes and standards of the following:
  - 1. NEC (NFPA 70) National Electric Code.
  - 2. ANSI/NEMA ICS 6 Enclosures for Industrial Controls and Systems.
  - 3. NEMA AB1 Molded Case Circuit Breakers.
  - 4. NEMA ICS 2 Industrial Control Devices, Controllers, and Assemblies.
  - 5. IEEE Standard 519-1992 Recommended Practices for Harmonic Control in Electrical Power Systems.
  - 6. ANSI C37 Standards for Circuit Breakers, Switchgear, Relays, Substations and Fuses.
  - 7. ANSI C57 Distribution, Power, and Regulating Transformers (includes Reactors).
  - 8. UL 508C Power Conversion Equipment.
  - 9. NEMA ICS 3.1 Safety Standards for Construction and Guide for Selection, Installation, and Operation of Variable Frequency Drive Systems.
  - 10. FCC CFR 47 Part 15 subpart B.
- B. The VFDs shall be UL listed for conformance to UL-508C. An equivalent safety labeling program by ETL or CSA documenting compliance with these industry standards will be acceptable.

- C. The Division 23 Contractor shall coordinate and assume system responsibility and compatibility between the various approved suppliers' equipment and services required to meet these specifications.
- D. The VFD system vendor shall provide a complete parts and labor warranty (including travel and shipping expenses) for one (1) year from the date of substantial completion. The warranty shall cover the entire VFD system including power devices, controllers, harmonics, mitigation devices, communications interface, etc. furnished as part of the system package.
- E. The mechanical contractor shall coordinate the mounting location of the VFD with the electrical contractor to be certain that it is not mounted in the airstream of unfiltered exhaust air; i.e. in a parking garage application.

#### 1.3 SUBMITTALS

- A. Shop Drawings: Submit shop drawings and product data in accordance with Section 230500 Basic Mechanical Requirements.
  - 1. VFD: Product data sheets, functional descriptions, performance ratings, dimensions, conduit entry/exit locations, installation instructions, complete wiring diagrams for power, controls, etc.
  - 2. Control System Interface: Furnish complete documentation of the controls system interface including bus specification, object list, wiring diagrams, XIF or configuration files, etc.
  - 3. Derate calculation for installation altitude above 3300 ft. and ambient temperature above 40°C.
- B. Operating Instructions and Maintenance Data: Submit printed operating instructions and maintenance data in accordance with Section 230500 Basic Mechanical Requirements.
  - 1. VFD: Operating and Maintenance instructions, programming instructions, spare parts lists, troubleshooting instructions.
  - 2. Factory test reports.
  - 3. Start-up and commissioning reports.

#### PART 2 - PRODUCTS

#### 2.1 APPROVED MANUFACTURERS

- A. The following manufacturers are acceptable, submit alternates for prior approval in accordance with the General Conditions and Division 1 Requirements.
  - 1. ABB
  - 2. Yaskawa
  - 3. Graham/Danfoss
  - 4. Mitsubishi

- 5. Grundfos Inc.
- 6. Toshiba

#### 2.2 CONSTRUCTION, VARIABLE FREQUENCY DRIVE

- A. The Variable Frequency Inverter(s) shall be PWM type using IGBTs, rated for the motor type, horsepower, and voltage as indicated on drawings.
- B. The Inverter shall be altitude compensated and sized for the elevation at which the unit will be installed. The inverter shall operate in an ambient temperature of  $-10^{\circ}$ C to  $50^{\circ}$ C humidity of 0-90% non-condensing.
- C. The VFD system manufacturer shall integrate all components and equipment required to meet these specification features and functions as a single UL (or equivalent) labeled system. Vendors providing equipment requiring panel shop or job site modifications or additions that would not be valid under the original equipment manufacturer's (OEM's) safety labeling will not be acceptable.
- D. Pre-integrated equipment shall include but not be limited to incoming line filters, rectifier units, inverter units, control circuitry, operator interfaces, protective equipment, and other accessories and auxiliary items necessary to meet the highest standards for the type of service specified herein.
- E. All VFD system components shall be housed in a grounded, dead front, free-standing or wall mounted, NEMA 1 enclosure. The VFD system size shall not exceed the size allotments specified on the drawings nor shall any portion of the system exceed a height of 90 inches. Entry shall be provided for incoming line and load cables as required or as shown on the drawings.
- F. VFD systems mounted indoors shall be properly ventilated and sized to operate continuously at the job site elevation in an ambient environment of 0°C to 40°C, 0-90% RH. VFD systems mounted outdoors shall include environment control provisions as required (or as shown on the plans) to operate in an ambient of -30°C to 50°C, 0-100% RH.
- G. All components of the VFD system shall be selected to operate continuously without any system trip or damage based on the nominal power specifications and requirements shown on the drawings or schedules. The above conditions must be maintained under the following expected variations:
  - 1. Plus or minus 10% voltage fluctuation.
  - 2. Plus or minus 3% frequency variation (5% if served by a back-up generator).
  - 3. Distorted voltage waveform with up to 7% total voltage harmonic distortion.
- H. The VFD system shall employ voltage sag ride-through coordination under normal operating (average load) conditions to prevent nuisance trips with the following utility interruptions:
  - 1. 0% voltage for 1 cycle.

- 2. 60% voltage for 10 cycles.
- 3. 87% voltage continuous.
- I. The VFD system shall employ door mounted industrial control operator devices, programming unit, and other devices as required to meet all functional and feature requirements of this specification. Operator pilot lights or LEDs, switches and pushbuttons (if required) shall be industrial oil tight industry standard devices.
- J. Control voltages shall be 120 volts or less supplied by machine tool type transformers employing both primary and secondary fusing.
- K. The VFD system factory wiring shall be permanently marked with hot emboss stamping or an equivalent marking system. All devices shall be labeled and identified with correct setting selections. All component identification and wiring shall be documented in the operation and maintenance manual.
- L. The VFD system shall be capable of starting and continuously driving the specified maximum motor load as identified on the drawings and schedules.
- M. VFD's driving variable torque loads shall be programmed to optimize load patterns which maximize system efficiency and minimize motor heating and stresses. VFD's driving constant torque or other loads shall be programmed to optimize load patterns for system or process performance as required.
- N. All VFD systems shall have an overload capacity of a minimum of 120% for one minute.
- O. The VFD solid state converter and inverter power switching components and control shall be selected to achieve a 0.95 efficiency or better at full load and speed. Other auxiliary devices required on the drawings or in these specifications including filters, line reactors, cooling or heating devices etc. shall be of a design to optimize efficiency as intended under this specification.
- P. The entire true system power factor (as measured at the input to the VFD system) shall be 0.95 or better across the operational speed and load range. Power factor that becomes leading under light load conditions (due to PF correction) is acceptable only if voltage rise is prevented from backfeeding to the rest of the system (meaning PF correction must act like a synchronous condenser). The voltage tolerance at the main VFD system input terminals shall not be compromised as a result of power factor correction techniques.
- Q. Short circuit protection shall be provided to the VFD system through an externally operated, door interlocked fused disconnect, circuit breaker or motor circuit protector (MCP). VFD shall have a minimum short circuit rating of 65,00 amps RMS (100,000 amps RMS with DC bus reactor) without additional input fusing. The door interlocked handle must be capable of being locked off to meet NEC.
- R. Overcurrent protection shall be provided in the VFD system through electronic motor overload (MOL) circuits with instantaneous trip, inverse time trip, and current limit functions. These shall be adjustable and optimized for the application.

- S. In addition to the overcurrent protection above, the VFD system shall provide over and under voltage protection, over temperature protection, ground fault protection, and control or microprocessor fault protection. These protective circuits shall cause an orderly shutdown of the VFD, provide indication of the fault condition, and require a manual reset (except undervoltage) before restart. Undervoltage from a power loss shall be set to automatically restart after return to normal. The history of the previous three faults shall remain in memory for future review.
- T. The VFD system customer terminations shall be clearly identified with terminal numbers and a permanent wiring diagram located in the VFD system enclosure. Coordinate all control work with Section 230900 Contractor.
- U. VFD shall meet the requirements for Radio Frequency Interference as specified by FCC Regulations, Part 15, Subpart J, Class A devices.

#### 2.3 FEATURES, VARIABLE FREQUENCY DRIVES

- A. The following operator control and indication features shall be provided standard (unless shown differently on the drawings) as part of each VFD system:
  - 1. Hand-Off-Auto (local start at VFD, remote start with contact closure).
  - 2. Local-Remote speed control (local speed control at VFD, remote speed control through speed reference signal).
  - 3. Frequency (speed) indication.
  - 4. Motor voltage indication.
  - 5. Motor current indication.
  - 6. VFD run indication.
  - 7. VFD fault and diagnostic indication.
- B. The following customer connections and interface terminations shall be provided standard (unless shown differently on the drawings) as part of each VFD system:
  - 1. VFD remote start/stop connection.
  - 2. External safeties connection.
  - 3. VFD run annunciation.
  - 4. VFD fault annunciation.
  - 5. VFD speed reference input connection (4-20mA or as shown on drawings).
  - 6. Minimum of three (3) programmable digital inputs.
  - 7. Minimum of two (2) 4-20mA input signals to integral controller.
- C. The following parameter adjustments shall be available to tune the VFD system:
  - 1. Minimum and maximum speeds.
  - 2. Acceleration and declaration times.
  - 3. Overcurrent trip point.
  - 4. Current limit response to overload.
  - 5. Maximum base motor voltage.
  - 6. Input speed reference signal gain and bias.
  - 7. Output speed reference signal gain and bias.

- 8. Critical frequency avoidance.
- 9. Multiple preset speed programming.
- 10. Integral PI controller programming.
- D. The VFD shall be capable of starting into a rotating motor at any speed and rotation direction.
- E. The VFD shall auto restart after a power failure.
- F. For maintenance purposes, the VFD system shall be capable of starting, stopping, and running with stable operation with the motor completely disconnected (no load).
- G. VFD shall include an integral locking disconnect.
- H. VFD shall include an integral PI controller capable of closed loop control of motor speed based on external analog speed reference signals or programmed digital input signals.
- I. VFD shall include an integral bypass motor starter. Include motor thermal overload and circuit breaker protection for bypass operation, and door-mounted selector switch.

#### 2.4 FACTORY TEST, VARIABLE FREQUENCY DRIVE

- A. Prior to shipping any equipment, the manufacturer shall individually test and certify each unit to document compliance. This certification report shall be submitted as part of the operation and maintenance manual and include the following minimum testing:
  - 1. A visual inspection shall be made consisting of all system components, wiring connections, and safety mechanisms.
  - 2. High pot testing shall be conducted on the completed VFD system including all accessory power components as a complete package. This test shall be conducted per UL 508C (two times the rated voltage plus 1000 volts AC for 60 seconds) using regularly calibrated high pot test equipment.
  - 3. A system run test shall be conducted using an actual motor accelerated and decelerated through the entire speed range.
  - 4. All control panel devices, including switches, pilot lamps, keypad and special control devices shall be functional tested.

#### PART 3 - EXECUTION

#### 3.1 INSTALLATION

- A. Field start-up service shall be provided by an authorized factory representative. The supplier shall provide warranty and authorized factory services including field start-up and training. The following adjustments and tests shall be performed as a minimum with certified copies included in the operation and maintenance manual:
  - 1. Verify that the input voltage is within the manufacturer's specification tolerances.

- 2. Verify that the motor rotation is correct in all modes of operation.
- 3. Verify all operator devices, programming, and monitoring functions to be fully operational.
- 4. Verify operation of all field signal control connections.
- 5. Measure and record system output voltage and current at 50% and 100% speed. Tune the output voltage to correspond to motor nameplate rating at full speed. Check full load current measurements against nameplate data.
- 6. Make all parameter adjustments to tune and optimize the VFD system to the application. Record all configuration values as part of this report.
- 7. Conduct harmonic tests as identified in this specification. Measurements shall be recorded for each unit with the VFD system off, running at 50% speed, and running at full speed and load.
- B. Owner training shall be provided for each model and type of VFD system provided. Training shall consist of both classroom and actual equipment hands-on training.
- C. Installation shall be in accordance with manufacturer's printed instructions.
- D. The mechanical contractor shall coordinate the mounting location of the VFD with the electrical contractor to be certain that it is not mounted in the airstream of unfiltered exhaust air; i.e. in a parking garage application. If no location is feasible to meet this location criteria, the VFD may be mounted inside a NEMA 3R enclosure in the dirty air location.

#### 3.2 SPARE PARTS

A. Furnish one spare main logic board, key pad, and power supply board. Furnish one set of spare parts for each unique VFD design supplied.

#### END OF SECTION 230810

	<u>L</u>	IST OF ABBREVIATIONS		DRAWING SYMBC	<u>DL LEGEND</u>
A A/C AD AFC AFF AHU ANOD ARCH @ B B B D B D B B D B D B D B D B D B D	AIR CONDITIONING AREA DRAIN ABOVE FINISHED CEILING ABOVE FINISHED FLOOR AIR HANDLING UNIT ALUMINUM ANODIZED ARCHITECT AT BOARD BUILDING BOTTOM OF CELSIUS COAT HOOK CONTRACTOR FURNISHED, CONTRACTOR FURNISHED, CONTRACTOR FURNISHED, CONTRACTOR FURNISHED, CONTRACTOR INSTALLED CORNER GUARD CONTINUOUS INSULATION CONTROL JOINT CENTERLINE CEILING CLOSET CLEAR CONCRETE MASONRY UNIT COLUMN CONCRETE CONTINUOUS CORRIDOR CERAMIC TILE CONSTRUCTION JOINT CABINET UNIT HEATER DEEP DEGREE DEMOLITION DRINKING FOUNTAIN DIAMETER DIMENSION DOWN DOWNSPOUT DRAWINGS	ST OF ABBREVIATIONSSGAGAUGEGALVGALVANIZEDGFRCGLASS-FIBER-REINFORCEDCONCRETEGFRGGLASS-FIBER-REINFORCED GYPSUMGLGLASSGWBGYPSUM WALL BOARDGYPGYPSUMHHGHHSHOSE BIBBHDRHEADERHMHOLLOW METALHPTHIGH POINTHRHOURHTHEIGHTIIDIDINSIDE DIAMETER; INSIDE DIMENSIONINTINTERIORJJANITORK(NOT USED)LLLABSLABORATORYLAVLAVATORYLAVLONG LEG HORIZONTALLI'HLONG LEG HORIZONTALLI'HLOW POINTMACH RM MACHINE ROOMMAXMAXIMUMMFRMANUFACTURERMECHMECHANICALMEZZMEZZANINEMINMINIMUMMOOMASONRY OPENING	RRISER OR RADIUSRADRADIUSRCPREFLECTED CEILING PLANRDROOF DRAINREFREFRIDGERATORREQDREQUIREDREVREVISIONRHRELATIVE HUMIDITYRMROOF TOP UNITRWLRAIN WATER LEADERSSSSMOKE DETECTORSAMSELF ADHESIVE MEMBRANESCHEDSCHEDULESECTSECTIONSMSIMILARSPECSPECIFICATIONSSSTAINLESS STEELSTDSTANDARDSTRUCTSTRUCTURALITTTREADTELTELEPHONETEMPTEMPORARYTHKTHICKTOCTOP OF PARAPETTOSTOP OF SLAB; TOP OF STEELTOWTOP OFIVUNDERWRITER'S LABORATORIESUNOUNLESS NOTED OTHERWISEVVCTVINYL COMPOSITE TILEVESTVESTIBULEVIFVERTICALVESTVERTIFY IN FIELD	DRAWING SYMBO A A A A A A A A A A A A A	MATCH LINE   SEE A2222     MATCH LINE     EXISTING WALL TO REMAIN     WALL TO BE DEMOLISHED     WALL TO BE DEMOLISHED     WALL TO BE DEMOLISHED     WALL TO BE DEMOLISHED     NEW WALL <td< td=""></td<>
DWGS <b>E</b> EA EJ EIFS ELEC ELEV EOS ERD EQUIP EWC EXIST EXP EXT <b>F</b> FA FACP FDC FD FEC FG FHC FIN FND FOC FOS FOW FSP FT FV	DRAWINGS EACH EXPANSION JOINT EXTERIOR INSULATION AND FINISH SYSTEM ELEVATION ELECTRICAL ELEVATOR EDGE OF SLAB EXISTING ROOF DRAIN EQUAL EQUIPMENT ELECTRIC WATER COOLER EXISTING EXPOSED EXTERIOR FAHRENHEIT FIRE ALARM FIRE ALARM CONTROL PANEL FIRE DEPARTMENT CONNECTION FLOOR DRAIN FIRE EXTINGUISHER CABINET FIRE EXTINGUISHER CABINET FIRE EXTINGUISHER FINISH GRADE FIRE HOSE CABINET FINISH FLOOR FOUNDATION FINISHED OPENING FACE OF CONCRETE FACE OF MASONRY FACE OF STUD FACE OF STUD FACE OF WALL FIBER REINFORCED GYPSUM FIRE STANDPIPE FEET FIELD VERIFY	NNANOT APPLICABLENCNOT IN CONTRACT.NOMNOMINALNTSNOT TO SCALEDOLT SIDE DIAMETER;ODOUTSIDE DIAMETER;OTSIDE DIMENSIONOFDOVERFLOW DRAINOH DROVERFLOW DRAINOFDOVERFLOM DRAINPPAIRPSI<	VIFVERIFY IN FIELDWWITHW/OWITHOUTWDWOODWHWALL HYDRANTWPWORKING POINTWRBWEATHER RESISTIVE BARRIERXYZ(NOT USED)THE PRECEDING LIST OF ABBREVIATIONSIS PRESENTED AS A GENERAL GUIDE ANDDOES NOT NECESSARILY SHOW ALLABBREVIATIONS USED. OTHERGENERALLY ACCEPTED ABBREVIATIONSMAY BE FOUND AMONG THE DRAWINGS-SOME ABBREVIATIONS SHOWN ABOVEMAY NOT BE USED WITHIN THIS DRAWINGSET.	ELEVATION DESCRIPTION ELEVATION ABOVE DATUM WALL TYPE DESIGNATION WALL TYPE DOOR DESIGNATION UIDOW DESIGNATION WINDOW DESIGNATION WINDOW TYPE KEYED NOTE DESIGNATION COSCUP EQUIPMENT DESIGNATION EQUIPMENT NUMBER GLASS TYPE GLASS TYPE	Image: split spli
				HATCH LEG         NOTE: HATCHING ANGLES MAY VARY DUE TO ANGLE OF WALL DRAWN, V         AST-IN-PLACE CONCRETE         AST-IN-PLACE         AST-IN-PLACE<	SEND WHILE HATCHING PATTERN REMAINS SIMILAR.

E

\_\_\_\_D

С

В

### 4

3

UNDISTURBED EARTH

CAST-IN-PLACE CONCRETE	CONTINUOUS MATE
CONCRETE MASONRY UNIT	NON CONTINUOUS N (BLOCKING)
PRECAST CONCRETE / GLASS FIBER REINFORCED CONCRETE (GFRC)	GYPSUM BOARD
STEEL STUDS	PLYWOOD
WOOD STUDS	EXTERIOR SHEATHI
BRICK VENEER	GRAVEL
RIGID INSULATION	UNDISTURBED EART
BATT INSULATION	BACKFILL OR FILL

GENERAL:		
0001		
G001	COVER SHEET	MECHANICAL:
G002	GENERAL INFORMATION	M001
G101	LEVEL 01 EXITING AND OCCUPANCY PLAN	M011
G102		MU12
G501		FP100
	ACCESSIBILITY CONFLIANCE	
		MIUIB M101C
CIVIL.		MIDIC M102
		WI 102
0Z		M1020 M201
C3		IVIJU I M401
C4 C5	CONSTRUCTION MITICATION RIAN	M501
C6		M502
00	DETRIES	M601
		M602
	SITE DEMOLITION PLAN	M701
AS101		WI OT
AS601		PI UMBING <sup>.</sup>
7,0001	FINISHES SCHEDULE	P101
AS701	SITE DETAILS	P101A
LI101	IRRIGATION PLAN	P101B
LI601	IRRIGATION LEGEND	P101C
LI701	IRRIGATION DETAILS	P102
L1702	IRRIGATION DETAILS	P102C
LI703	IRRIGATION DETAILS	
LP101	PLANTING PLAN (GROUND PLANE)	P201
LP111	PLANTING PLAN	
LP601	PLANTING LEGEND	P401
LP701	PLANTING DETAILS	P501
		P601
STRUCTURAL:		
S001	STRUCTURAL NOTES	ELECTRICAL:
S002	SCHEDULES	1 E001
S003	SCHEDULES	E002
S101	FOOTING AND FOUNDATION PLAN	E101
S102	MAIN LEVEL SHEAR WALL & HOLDOWN PLAN	E201
S103	LEVEL 2 FLOOR & ROOF FRAMING PLANS	E202
S201	DETAILS	E301
S202	DETAILS	E302
S203	DETAILS	E303
S204	DETAILS	E304
S205	DETAILS	E401
S301	DETAILS	E402
S302	ELEVATIONS	<u>∕1\</u> E501
S303	ELEVATIONS	E601
S401	SCHEMATIC REFERENCE	E701
ARCHITECTURA		E703
AD101		1 1 ( / / / /
		ET301
		ET301 ET501
A101A	LEVEL 01 FLOOR PLAN - AREA 'A'	ET301 ET501
A101A A101B A101C	LEVEL 01 FLOOR PLAN - AREA 'A' LEVEL 01 FLOOR PLAN - AREA 'B'	ET301 ET501
A101A A101B A101C A102	LEVEL 01 FLOOR PLAN - AREA 'A' LEVEL 01 FLOOR PLAN - AREA 'B' LEVEL 01 FLOOR PLAN - AREA 'C'	ET301 ET501
A101A A101B A101C A102 A102C	LEVEL 01 FLOOR PLAN - AREA 'A' LEVEL 01 FLOOR PLAN - AREA 'B' LEVEL 01 FLOOR PLAN - AREA 'C' LEVEL 02 - OVERALL FLOOR PLAN	ET301 ET501
A101A A101B A101C A102 A102C A121	LEVEL 01 FLOOR PLAN - AREA 'A' LEVEL 01 FLOOR PLAN - AREA 'B' LEVEL 01 FLOOR PLAN - AREA 'C' LEVEL 02 - OVERALL FLOOR PLAN LEVEL 02 FLOOR PLAN - AREA 'C' ROOF PLAN	ET301 ET501
A101A A101B A101C A102 A102C A121 A122	LEVEL 01 FLOOR PLAN - AREA 'A' LEVEL 01 FLOOR PLAN - AREA 'B' LEVEL 01 FLOOR PLAN - AREA 'C' LEVEL 02 - OVERALL FLOOR PLAN LEVEL 02 FLOOR PLAN - AREA 'C' ROOF PLAN ROOF DETAILS	ET301 ET501
A101A A101B A101C A102 A102C A121 A122 A151A	LEVEL 01 FLOOR PLAN - AREA 'A' LEVEL 01 FLOOR PLAN - AREA 'B' LEVEL 01 FLOOR PLAN - AREA 'C' LEVEL 02 - OVERALL FLOOR PLAN LEVEL 02 FLOOR PLAN - AREA 'C' ROOF PLAN ROOF DETAILS LEVEL 01 REFLECTED CEILING PLAN - AREA 'A'	ET301 ET501
A101A A101B A101C A102 A102C A102C A121 A122 A151A A151B	LEVEL 01 FLOOR PLAN - AREA 'A' LEVEL 01 FLOOR PLAN - AREA 'B' LEVEL 01 FLOOR PLAN - AREA 'C' LEVEL 02 - OVERALL FLOOR PLAN LEVEL 02 FLOOR PLAN - AREA 'C' ROOF PLAN ROOF DETAILS LEVEL 01 REFLECTED CEILING PLAN - AREA 'A' LEVEL 01 REFLECTED CEILING PLAN - AREA 'A'	ET301 ET501
A101A A101B A101C A102 A102C A121 A122 A151A A151B A151C	LEVEL 01 FLOOR PLAN - AREA 'A' LEVEL 01 FLOOR PLAN - AREA 'B' LEVEL 01 FLOOR PLAN - AREA 'C' LEVEL 02 - OVERALL FLOOR PLAN LEVEL 02 FLOOR PLAN - AREA 'C' ROOF PLAN ROOF DETAILS LEVEL 01 REFLECTED CEILING PLAN - AREA 'A' LEVEL 01 REFLECTED CEILING PLAN - AREA 'B' LEVEL 01 REFLECTED CEILING PLAN - AREA 'C'	ET301 ET501
A101A A101B A101C A102 A102C A121 A122 A151A A151B A151C A152C	LEVEL 01 FLOOR PLAN - AREA 'A' LEVEL 01 FLOOR PLAN - AREA 'B' LEVEL 01 FLOOR PLAN - AREA 'C' LEVEL 02 - OVERALL FLOOR PLAN LEVEL 02 FLOOR PLAN - AREA 'C' ROOF PLAN ROOF DETAILS LEVEL 01 REFLECTED CEILING PLAN - AREA 'A' LEVEL 01 REFLECTED CEILING PLAN - AREA 'B' LEVEL 01 REFLECTED CEILING PLAN - AREA 'C' LEVEL 02 REFLECTED CEILING PLAN - AREA 'C'	ET301 ET501
A101A A101B A101C A102 A102C A121 A122 A151A A151B A151C A152C A201	LEVEL 01 FLOOR PLAN - AREA 'A' LEVEL 01 FLOOR PLAN - AREA 'B' LEVEL 01 FLOOR PLAN - AREA 'C' LEVEL 02 - OVERALL FLOOR PLAN LEVEL 02 FLOOR PLAN - AREA 'C' ROOF PLAN ROOF DETAILS LEVEL 01 REFLECTED CEILING PLAN - AREA 'A' LEVEL 01 REFLECTED CEILING PLAN - AREA 'B' LEVEL 01 REFLECTED CEILING PLAN - AREA 'C' LEVEL 02 REFLECTED CEILING PLAN - AREA 'C' BUILDING ELEVATIONS	ET301 ET501
A101A A101B A101C A102 A102C A121 A122 A151A A151B A151C A152C A201 A251	LEVEL 01 FLOOR PLAN - AREA 'A' LEVEL 01 FLOOR PLAN - AREA 'B' LEVEL 01 FLOOR PLAN - AREA 'C' LEVEL 02 - OVERALL FLOOR PLAN LEVEL 02 FLOOR PLAN - AREA 'C' ROOF PLAN ROOF DETAILS LEVEL 01 REFLECTED CEILING PLAN - AREA 'A' LEVEL 01 REFLECTED CEILING PLAN - AREA 'B' LEVEL 01 REFLECTED CEILING PLAN - AREA 'C' LEVEL 02 REFLECTED CEILING PLAN - AREA 'C' BUILDING ELEVATIONS INTERIOR ELEVATIONS	ET301 ET501
A101A A101B A101C A102 A102C A121 A122 A151A A151B A151C A152C A201 A251 A252	LEVEL 01 FLOOR PLAN - AREA 'A' LEVEL 01 FLOOR PLAN - AREA 'B' LEVEL 01 FLOOR PLAN - AREA 'C' LEVEL 02 - OVERALL FLOOR PLAN LEVEL 02 FLOOR PLAN - AREA 'C' ROOF PLAN ROOF DETAILS LEVEL 01 REFLECTED CEILING PLAN - AREA 'A' LEVEL 01 REFLECTED CEILING PLAN - AREA 'A' LEVEL 01 REFLECTED CEILING PLAN - AREA 'B' LEVEL 01 REFLECTED CEILING PLAN - AREA 'C' LEVEL 02 REFLECTED CEILING PLAN - AREA 'C' BUILDING ELEVATIONS INTERIOR ELEVATIONS	ET301 ET501
A101A A101B A101C A102 A102C A121 A122 A151A A151B A151C A152C A201 A251 A252 A253	LEVEL 01 FLOOR PLAN - AREA 'A' LEVEL 01 FLOOR PLAN - AREA 'B' LEVEL 01 FLOOR PLAN - AREA 'C' LEVEL 02 - OVERALL FLOOR PLAN LEVEL 02 FLOOR PLAN - AREA 'C' ROOF PLAN ROOF DETAILS LEVEL 01 REFLECTED CEILING PLAN - AREA 'A' LEVEL 01 REFLECTED CEILING PLAN - AREA 'B' LEVEL 01 REFLECTED CEILING PLAN - AREA 'C' LEVEL 01 REFLECTED CEILING PLAN - AREA 'C' LEVEL 02 REFLECTED CEILING PLAN - AREA 'C' BUILDING ELEVATIONS INTERIOR ELEVATIONS INTERIOR ELEVATIONS	ET301 ET501
A101A A101B A101C A102 A102C A121 A122 A151A A151B A151C A152C A201 A251 A252 A253 A301	LEVEL 01 FLOOR PLAN - AREA 'A' LEVEL 01 FLOOR PLAN - AREA 'B' LEVEL 01 FLOOR PLAN - AREA 'C' LEVEL 02 - OVERALL FLOOR PLAN LEVEL 02 FLOOR PLAN - AREA 'C' ROOF PLAN ROOF DETAILS LEVEL 01 REFLECTED CEILING PLAN - AREA 'A' LEVEL 01 REFLECTED CEILING PLAN - AREA 'A' LEVEL 01 REFLECTED CEILING PLAN - AREA 'B' LEVEL 01 REFLECTED CEILING PLAN - AREA 'C' LEVEL 02 REFLECTED CEILING PLAN - AREA 'C' BUILDING ELEVATIONS INTERIOR ELEVATIONS INTERIOR ELEVATIONS BUILDING SECTIONS	ET301 ET501
A101A A101B A101C A102 A102C A121 A122 A151A A151B A151C A152C A201 A251 A252 A253 A301 A351	LEVEL OF OVELVILE FEORYFEAM LEVEL OF OVELVILE FEORYFEAM LEVEL OF FLOOR PLAN - AREA 'A' LEVEL 01 FLOOR PLAN - AREA 'C' LEVEL 02 - OVERALL FLOOR PLAN LEVEL 02 FLOOR PLAN - AREA 'C' ROOF PLAN ROOF DETAILS LEVEL 01 REFLECTED CEILING PLAN - AREA 'A' LEVEL 01 REFLECTED CEILING PLAN - AREA 'A' LEVEL 01 REFLECTED CEILING PLAN - AREA 'C' LEVEL 01 REFLECTED CEILING PLAN - AREA 'C' LEVEL 02 REFLECTED CEILING PLAN - AREA 'C' BUILDING ELEVATIONS INTERIOR ELEVATIONS INTERIOR ELEVATIONS BUILDING SECTIONS WALL SECTIONS	ET301 ET501
A101A A101B A101C A102 A102C A121 A122 A151A A151B A151C A152C A201 A251 A251 A252 A253 A301 A351 A352	LEVEL OF OVELVILE FEORYFEAM LEVEL OF OVELVILE FEORYFEAM LEVEL OF FLOOR PLAN - AREA 'A' LEVEL 01 FLOOR PLAN - AREA 'C' LEVEL 02 - OVERALL FLOOR PLAN LEVEL 02 FLOOR PLAN - AREA 'C' ROOF PLAN ROOF DETAILS LEVEL 01 REFLECTED CEILING PLAN - AREA 'A' LEVEL 01 REFLECTED CEILING PLAN - AREA 'A' LEVEL 01 REFLECTED CEILING PLAN - AREA 'B' LEVEL 01 REFLECTED CEILING PLAN - AREA 'C' LEVEL 02 REFLECTED CEILING PLAN - AREA 'C' BUILDING ELEVATIONS INTERIOR ELEVATIONS INTERIOR ELEVATIONS BUILDING SECTIONS WALL SECTIONS WALL SECTIONS	ET301 ET501
A101A A101B A101C A102 A102C A121 A122 A151A A151B A151C A152C A201 A251 A252 A253 A301 A351 A352 A353	LEVEL OF OVELVILE FEORYFEAM LEVEL OF OVELVILE FEORYFEAM LEVEL OF FLOOR PLAN - AREA 'A' LEVEL 01 FLOOR PLAN - AREA 'C' LEVEL 02 - OVERALL FLOOR PLAN LEVEL 02 FLOOR PLAN - AREA 'C' ROOF PLAN ROOF DETAILS LEVEL 01 REFLECTED CEILING PLAN - AREA 'A' LEVEL 01 REFLECTED CEILING PLAN - AREA 'A' LEVEL 01 REFLECTED CEILING PLAN - AREA 'B' LEVEL 01 REFLECTED CEILING PLAN - AREA 'C' LEVEL 02 REFLECTED CEILING PLAN - AREA 'C' BUILDING ELEVATIONS INTERIOR ELEVATIONS INTERIOR ELEVATIONS BUILDING SECTIONS WALL SECTIONS WALL SECTIONS	ET301 ET501
A101A A101B A101C A102 A102C A121 A122 A151A A151B A151C A151C A152C A201 A251 A252 A253 A301 A351 A352 A353 A354	LEVEL OF OVERVILLE ECONTENT LEVEL OF OVERVILLE ECONTENT LEVEL OF FLOOR PLAN - AREA 'A' LEVEL 01 FLOOR PLAN - AREA 'C' LEVEL 02 - OVERALL FLOOR PLAN LEVEL 02 FLOOR PLAN - AREA 'C' ROOF PLAN ROOF DETAILS LEVEL 01 REFLECTED CEILING PLAN - AREA 'A' LEVEL 01 REFLECTED CEILING PLAN - AREA 'B' LEVEL 01 REFLECTED CEILING PLAN - AREA 'C' LEVEL 01 REFLECTED CEILING PLAN - AREA 'C' LEVEL 02 REFLECTED CEILING PLAN - AREA 'C' BUILDING ELEVATIONS INTERIOR ELEVATIONS INTERIOR ELEVATIONS BUILDING SECTIONS WALL SECTIONS WALL SECTIONS WALL SECTIONS	ET301 ET501
A101A A101B A101C A102 A102C A121 A122 A151A A151B A151C A152C A201 A251 A252 A253 A301 A351 A352 A353 A354 A355	LEVEL OF OVERVILLE LEOONTERN LEVEL OF OVERVILLE LEOONTERN LEVEL OF FLOOR PLAN - AREA 'A' LEVEL OF FLOOR PLAN - AREA 'C' LEVEL 02 - OVERALL FLOOR PLAN LEVEL 02 FLOOR PLAN - AREA 'C' ROOF PLAN ROOF DETAILS LEVEL 01 REFLECTED CEILING PLAN - AREA 'A' LEVEL 01 REFLECTED CEILING PLAN - AREA 'A' LEVEL 01 REFLECTED CEILING PLAN - AREA 'B' LEVEL 01 REFLECTED CEILING PLAN - AREA 'C' LEVEL 02 REFLECTED CEILING PLAN - AREA 'C' BUILDING ELEVATIONS INTERIOR ELEVATIONS INTERIOR ELEVATIONS SUILDING SECTIONS WALL SECTIONS WALL SECTIONS WALL SECTIONS WALL SECTIONS WALL SECTIONS AND DETAILS	ET301 ET501
A101A A101B A101C A102 A102C A121 A122 A151A A151B A151C A152C A201 A251 A251 A252 A253 A301 A351 A351 A352 A353 A354 A355 A451	LEVEL 01 FLOOR PLAN - AREA 'A' LEVEL 01 FLOOR PLAN - AREA 'A' LEVEL 01 FLOOR PLAN - AREA 'C' LEVEL 02 - OVERALL FLOOR PLAN LEVEL 02 FLOOR PLAN - AREA 'C' ROOF PLAN ROOF DETAILS LEVEL 01 REFLECTED CEILING PLAN - AREA 'A' LEVEL 01 REFLECTED CEILING PLAN - AREA 'A' LEVEL 01 REFLECTED CEILING PLAN - AREA 'C' LEVEL 01 REFLECTED CEILING PLAN - AREA 'C' LEVEL 02 REFLECTED CEILING PLAN - AREA 'C' BUILDING ELEVATIONS INTERIOR ELEVATIONS INTERIOR ELEVATIONS INTERIOR ELEVATIONS BUILDING SECTIONS WALL SECTIONS WALL SECTIONS WALL SECTIONS WALL SECTIONS AND DETAILS ENLARGED STAIR AND ELEVATOR PLANS AND	ET301 ET501
A101A A101B A101C A102 A102C A121 A122 A151A A151B A151C A152C A201 A251 A252 A253 A301 A351 A352 A353 A354 A355 A451	LEVEL OF OVERALE FEOORY EAR LEVEL OFFLOOR PLAN - AREA 'A' LEVEL OFFLOOR PLAN - AREA 'C' LEVEL 01 FLOOR PLAN - AREA 'C' LEVEL 02 - OVERALL FLOOR PLAN LEVEL 02 FLOOR PLAN - AREA 'C' ROOF PLAN ROOF DETAILS LEVEL 01 REFLECTED CEILING PLAN - AREA 'A' LEVEL 01 REFLECTED CEILING PLAN - AREA 'A' LEVEL 01 REFLECTED CEILING PLAN - AREA 'C' LEVEL 01 REFLECTED CEILING PLAN - AREA 'C' LEVEL 02 REFLECTED CEILING PLAN - AREA 'C' BUILDING ELEVATIONS INTERIOR ELEVATIONS INTERIOR ELEVATIONS INTERIOR ELEVATIONS WALL SECTIONS WALL SECTIONS W	ET301 ET501
A101A A101B A101C A102 A102C A102C A121 A122 A151A A151B A151C A152C A201 A251 A252 A253 A301 A351 A351 A352 A353 A354 A355 A451	LEVEL OF OVERALE FEOORY EAC LEVEL OF FLOOR PLAN - AREA 'A' LEVEL OF FLOOR PLAN - AREA 'B' LEVEL OF FLOOR PLAN - AREA 'C' ROOF PLAN ROOF DETAILS LEVEL 01 REFLECTED CEILING PLAN - AREA 'A' LEVEL 01 REFLECTED CEILING PLAN - AREA 'A' LEVEL 01 REFLECTED CEILING PLAN - AREA 'B' LEVEL 01 REFLECTED CEILING PLAN - AREA 'C' LEVEL 01 REFLECTED CEILING PLAN - AREA 'C' BUILDING ELEVATIONS INTERIOR ELEVATIONS INTERIOR ELEVATIONS INTERIOR ELEVATIONS BUILDING SECTIONS WALL SECTIONS WALC SECTIONS WALC SECTIONS WALC SECTIONS	ET301 ET501
A101A A101B A101C A102 A102C A102C A121 A122 A151A A151B A151C A152C A201 A251 A252 A253 A301 A351 A352 A353 A354 A355 A451 A452 A501 A511	LEVEL 01 FLOOR PLAN - AREA 'A' LEVEL 01 FLOOR PLAN - AREA 'A' LEVEL 01 FLOOR PLAN - AREA 'C' LEVEL 02 - OVERALL FLOOR PLAN LEVEL 02 FLOOR PLAN - AREA 'C' ROOF PLAN ROOF DETAILS LEVEL 01 REFLECTED CEILING PLAN - AREA 'A' LEVEL 01 REFLECTED CEILING PLAN - AREA 'A' LEVEL 01 REFLECTED CEILING PLAN - AREA 'C' LEVEL 01 REFLECTED CEILING PLAN - AREA 'C' LEVEL 02 REFLECTED CEILING PLAN - AREA 'C' BUILDING ELEVATIONS INTERIOR ELEVATIONS INTERIOR ELEVATIONS INTERIOR ELEVATIONS WALL SECTIONS WALL SECTIONS	ET301 ET501
A101A A101B A101C A102 A102C A102C A121 A122 A151A A151B A151C A152C A201 A251 A252 A253 A301 A351 A352 A353 A351 A352 A353 A354 A355 A451 A452 A501 A511 A511	LEVEL OF OTELOTED TEODITIENT LEVEL 01 FLOOR PLAN - AREA 'A' LEVEL 01 FLOOR PLAN - AREA 'C' LEVEL 02 - OVERALL FLOOR PLAN LEVEL 02 FLOOR PLAN - AREA 'C' ROOF PLAN ROOF DETAILS LEVEL 01 REFLECTED CEILING PLAN - AREA 'A' LEVEL 01 REFLECTED CEILING PLAN - AREA 'A' LEVEL 01 REFLECTED CEILING PLAN - AREA 'C' LEVEL 01 REFLECTED CEILING PLAN - AREA 'C' BUILDING ELEVATIONS INTERIOR ELEVATIONS INTERIOR ELEVATIONS INTERIOR ELEVATIONS BUILDING SECTIONS WALL SECTIONS WALC SECTI	ET301 ET501
A101A A101B A101C A102 A102C A121 A122 A151A A151B A151C A152C A201 A251 A252 A253 A301 A351 A352 A353 A351 A352 A353 A354 A355 A451 A452 A501 A511 A512 A512 A512	LEVEL OF OTELOTED TEORIT ENAL LEVEL 01 FLOOR PLAN - AREA 'A' LEVEL 01 FLOOR PLAN - AREA 'C' LEVEL 02 - OVERALL FLOOR PLAN LEVEL 02 FLOOR PLAN - AREA 'C' ROOF PLAN ROOF DETAILS LEVEL 01 REFLECTED CEILING PLAN - AREA 'A' LEVEL 01 REFLECTED CEILING PLAN - AREA 'B' LEVEL 01 REFLECTED CEILING PLAN - AREA 'C' LEVEL 01 REFLECTED CEILING PLAN - AREA 'C' BUILDING ELEVATIONS INTERIOR ELEVATIONS INTERIOR ELEVATIONS INTERIOR ELEVATIONS BUILDING SECTIONS WALL SECTIONS WALL SECTIONS WALL SECTIONS WALL SECTIONS AVALL SECTIONS WALL SECTIONS WALL SECTIONS AVALL SECTIONS WALL SECTIONS WALL SECTIONS RUBLES ENLARGED STAIR AND ELEVATOR PLANS AND DETAILS ENLARGED STAIR PLANS AND DETAILS PLAN DETAILS SECTION DETAILS SECTION DETAILS SECTION DETAILS	ET301 ET501
A101A A101B A101C A102 A102C A121 A122 A151A A151B A151C A152C A201 A251 A252 A253 A301 A351 A351 A352 A353 A354 A355 A451 A452 A501 A511 A512 A513 A521	LEVEL OF OTELOTED TEODITIENT LEVEL 01 FLOOR PLAN - AREA 'A' LEVEL 01 FLOOR PLAN - AREA 'C' LEVEL 02 - OVERALL FLOOR PLAN LEVEL 02 FLOOR PLAN - AREA 'C' ROOF PLAN ROOF DETAILS LEVEL 01 REFLECTED CEILING PLAN - AREA 'A' LEVEL 01 REFLECTED CEILING PLAN - AREA 'A' LEVEL 01 REFLECTED CEILING PLAN - AREA 'C' LEVEL 01 REFLECTED CEILING PLAN - AREA 'C' BUILDING ELEVATIONS INTERIOR ELEVATIONS INTERIOR ELEVATIONS INTERIOR ELEVATIONS BUILDING SECTIONS WALL SECTI	ET301 ET501
A101A A101B A101C A102 A102C A121 A122 A151A A151B A151C A152C A201 A251 A252 A253 A301 A351 A352 A353 A354 A355 A451 A355 A451 A352 A355 A451 A511 A512 A513 A521 A511 A521 A511	LEVEL OF OVERVIEW EVATIONS AND DETAILS LEVEL OF FLOOR PLAN - AREA 'A' LEVEL 01 FLOOR PLAN - AREA 'C' LEVEL 02 - OVERALL FLOOR PLAN LEVEL 02 FLOOR PLAN - AREA 'C' ROOF PLAN ROOF DETAILS LEVEL 01 REFLECTED CEILING PLAN - AREA 'A' LEVEL 01 REFLECTED CEILING PLAN - AREA 'B' LEVEL 01 REFLECTED CEILING PLAN - AREA 'C' LEVEL 01 REFLECTED CEILING PLAN - AREA 'C' BUILDING ELEVATIONS INTERIOR ELEVATIONS INTERIOR ELEVATIONS INTERIOR ELEVATIONS WALL SECTIONS WALL SECTIONS AND DETAILS ENLARGED STAIR PLANS AND DETAILS PLAN DETAILS SECTION DETAILS SECTION DETAILS SECTION DETAILS SECTION DETAILS SECTION DETAILS MILL WORK PLANS ELEVATIONS AND DETAILS MILL WORK PLANS ELEVATIONS	ET301 ET501
A101A A101B A101C A102 A102C A102C A121 A122 A151A A151B A151C A152C A201 A251 A252 A253 A301 A351 A352 A353 A351 A352 A353 A354 A355 A451 A355 A451 A551 A551 A551 A551 A551 A551 A5	LEVEL OF OVERVIEW ECONVELVE LEVEL 01 FLOOR PLAN - AREA 'A' LEVEL 01 FLOOR PLAN - AREA 'C' LEVEL 01 FLOOR PLAN - AREA 'C' ROOF PLAN ROOF DETAILS LEVEL 01 REFLECTED CEILING PLAN - AREA 'A' LEVEL 01 REFLECTED CEILING PLAN - AREA 'A' LEVEL 01 REFLECTED CEILING PLAN - AREA 'B' LEVEL 01 REFLECTED CEILING PLAN - AREA 'C' LEVEL 01 REFLECTED CEILING PLAN - AREA 'C' BUILDING ELEVATIONS INTERIOR ELEVATIONS INTERIOR ELEVATIONS INTERIOR ELEVATIONS BUILDING SECTIONS WALL SECTIONS WALL SECTIONS WALL SECTIONS WALL SECTIONS WALL SECTIONS WALL SECTIONS WALL SECTIONS AND DETAILS ENLARGED STAIR PLANS AND DETAILS PLAN DETAILS SECTION DETAILS SECTION DETAILS SECTION DETAILS SECTION DETAILS EXPANSION JOINT DETAILS MILLWORK PLANS, ELEVATIONS AND DETAILS DOOR SCHEDUIF EAND TYPES	ET301 ET501
A101A A101B A101C A102 A102C A121 A122 A151A A151B A151C A152C A201 A251 A252 A253 A301 A351 A352 A353 A301 A352 A353 A354 A355 A451 A355 A451 A452 A551 A511 A512 A551 A601 A601 A601 A602	LEVEL OF OVERVIEW EVENCE ANY LEVEL OF OVERVIEW ANY LEVEL OF OVERVIEW ANY LEVEL OF FLOOR PLAN - AREA 'A' LEVEL 01 FLOOR PLAN - AREA 'C' ROOF PLAN ROOF DETAILS LEVEL 01 REFLECTED CEILING PLAN - AREA 'A' LEVEL 01 REFLECTED CEILING PLAN - AREA 'B' LEVEL 01 REFLECTED CEILING PLAN - AREA 'C' LEVEL 01 REFLECTED CEILING PLAN - AREA 'C' LEVEL 02 REFLECTED CEILING PLAN - AREA 'C' BUILDING ELEVATIONS INTERIOR ELEVATIONS INTERIOR ELEVATIONS BUILDING SECTIONS WALL SECTIONS WALL SECTIONS WALL SECTIONS AND DETAILS ENLARGED STAIR AND ELEVATOR PLANS AND DETAILS PLAN DETAILS SECTION SAND DETAILS SECTI	ET301 ET501
A101A A101B A101C A102 A102C A121 A122 A151A A151B A151C A152C A201 A251 A252 A253 A301 A351 A352 A353 A301 A355 A451 A355 A451 A452 A551 A511 A512 A513 A521 A551 A601 A602 A603	LEVEL OF OVERVIEW LEVEL OF VERVE LEVEL 01 FLOOR PLAN - AREA 'A' LEVEL 01 FLOOR PLAN - AREA 'C' LEVEL 02 - OVERALL FLOOR PLAN LEVEL 02 FLOOR PLAN - AREA 'C' ROOF PLAN ROOF DETAILS LEVEL 01 REFLECTED CEILING PLAN - AREA 'A' LEVEL 01 REFLECTED CEILING PLAN - AREA 'B' LEVEL 01 REFLECTED CEILING PLAN - AREA 'C' LEVEL 01 REFLECTED CEILING PLAN - AREA 'C' BUILDING ELEVATIONS INTERIOR ELEVATIONS INTERIOR ELEVATIONS INTERIOR ELEVATIONS BUILDING SECTIONS WALL SECTIONS CANOPY SECTIONS AND DETAILS ENLARGED STAIR AND ELEVATOR PLANS AND DETAILS ENLARGED STAIR PLANS AND DETAILS PLAN DETAILS SECTION SAUD DETAILS SECTION DETAILS SECTION DETAILS SECTION DETAILS SECTION DETAILS SECTION DETAILS SECTION STOREFRONT TYPES INTERIOR STOREFRONT TYPES	ET301 ET501
A101A A101B A101C A102 A102C A102C A121 A122 A151A A151B A151C A152C A201 A251 A252 A253 A301 A351 A352 A353 A351 A352 A353 A354 A355 A451 A355 A451 A355 A451 A551 A511 A512 A551 A551 A601 A602 A603 A604	LEVEL 01 FLOOR PLAN - AREA 'A' LEVEL 01 FLOOR PLAN - AREA 'A' LEVEL 01 FLOOR PLAN - AREA 'C' LEVEL 02 - OVERALL FLOOR PLAN LEVEL 02 FLOOR PLAN - AREA 'C' ROOF PLAN ROOF DETAILS LEVEL 01 REFLECTED CEILING PLAN - AREA 'A' LEVEL 01 REFLECTED CEILING PLAN - AREA 'B' LEVEL 01 REFLECTED CEILING PLAN - AREA 'B' LEVEL 01 REFLECTED CEILING PLAN - AREA 'C' BUILDING ELEVATIONS INTERIOR ELEVATIONS INTERIOR ELEVATIONS INTERIOR ELEVATIONS INTERIOR ELEVATIONS WALL SECTIONS WALL SECTIONS AND DETAILS ENLARGED STAIR PLANS AND DETAILS ENLARGED STAIR PLANS AND DETAILS ENLARGED STAIR PLANS AND DETAILS SECTION DETAILS	ET301 ET501
A101A A101B A101C A102 A102C A121 A122 A151A A151B A151C A152C A201 A251 A252 A253 A301 A351 A352 A353 A354 A355 A451 A355 A451 A355 A451 A551 A511 A512 A513 A521 A551 A601 A602 A603 A604 A701	LEVEL 01 FLOOR PLAN - AREA 'A' LEVEL 01 FLOOR PLAN - AREA 'A' LEVEL 01 FLOOR PLAN - AREA 'C' LEVEL 02 - OVERALL FLOOR PLAN LEVEL 02 FLOOR PLAN - AREA 'C' ROOF PLAN ROOF DETAILS LEVEL 01 REFLECTED CEILING PLAN - AREA 'A' LEVEL 01 REFLECTED CEILING PLAN - AREA 'B' LEVEL 01 REFLECTED CEILING PLAN - AREA 'C' LEVEL 01 REFLECTED CEILING PLAN - AREA 'C' BUILDING ELEVATIONS INTERIOR ELEVATIONS INTERIOR ELEVATIONS INTERIOR ELEVATIONS INTERIOR ELEVATIONS WALL SECTIONS WALL SECTIONS WAL SECTIONS WAL SECTIONS WAL SECTIONS WAL SECTIONS WAL SECTIO	ET301 ET501
A101A A101B A101C A102 A102C A121 A122 A151A A151B A151C A152C A201 A251 A252 A253 A301 A351 A352 A353 A301 A352 A353 A354 A355 A451 A355 A451 A452 A551 A511 A512 A513 A521 A551 A601 A602 A603 A604 A701 A1601	LEVEL 01 FLOOR PLAN - AREA 'A' LEVEL 01 FLOOR PLAN - AREA 'A' LEVEL 01 FLOOR PLAN - AREA 'C' LEVEL 02 - OVERALL FLOOR PLAN LEVEL 02 FLOOR PLAN - AREA 'C' ROOF PLAN ROOF DETAILS LEVEL 01 REFLECTED CEILING PLAN - AREA 'A' LEVEL 01 REFLECTED CEILING PLAN - AREA 'B' LEVEL 01 REFLECTED CEILING PLAN - AREA 'C' BUILDING ELEVATIONS CELEVATIONS INTERIOR ELEVATIONS INTERIOR ELEVATIONS INTERIOR ELEVATIONS WALL SECTIONS WALL SECTIONS CANOPY SECTIONS AND DETAILS ENLARGED STAIR PLANS AND DETAILS PLAN DETAILS SECTION SAND COMPANE SECTIONS AND DETAILS SECTION DETAILS	ET301 ET501

SHEET INDEX

## <u>SHEET INDEX</u>

01	MECHANICAL LEGEND, SYMBC
)11	LEVEL 1 MECHANICAL ZONE PI
12	LEVEL 2 MECHANICAL ZONE P
100	FIRE PROTECTION PLANS
01	LEVEL 1 OVERALL MECHANICA
01A	LEVEL 1 MECHANICAL FLOOR
01B	LEVEL 1 MECHANICAL FLOOR
01C	LEVEL 1 MECHANICAL FLOOR
02	LEVEL 2 OVERALL MECHANICA
02C	LEVEL 2 MECHANICAL FLOOR
01	MECHANICAL VIEW ISO
.01	ENLARGED MECHANICAL PLAN
i01	MECHANICAL DETAILS
602	MECHANICAL DETAILS
601	MECHANICAL SCHEDULES
62	MECHANICAL SCHEDULES
'01	MECHANICAL SCHEMATICS
UMBING:	
01	LEVEL 1 OVERALL PLUMBING F
01A	LEVEL 1 PLUMBING FLOOR PLA
01B	LEVEL 1 PLUMBING FLOOR PLA
01C	LEVEL 1 PLUMBING FLOOR PLA
02	LEVEL 2 OVERALL PLUMBING F
02C	LEVEL 2 PLUMBING FLOOR PLA
020	AREA 'C'
01	WASTE & VENT SCHEMATIC AM
	SCHEMATIC
01	ENLARGED RESTROOM PLANS
01	PLUMBING DETAILS
01	PLUMBING SCHEDULES
ECTRICAL:	$\sim$
	SYMBOLS, SCHEDULES AND N
01	ELECTRICAL SITE PLAN
01	LEVEL 01 LIGHTING PLAN
02	LEVEL 02 LIGHTING PLAN
01	
02	
03	LEVEL 01 MECHANICAL POWER
04	LEVEL 02 MECHANICAL POWER
01	LEVEL 01 SYSTEMS PLAN
02 200000	LEVEL 02 SYSTEMS PLAN
	UNE-LINE DIAGRAM
	TANEL BUARD SCHEDULES
	ELECTRICAL DIAGRAMS
	ELECTRICAL DIAGRAMS
03	ELECIRICAL DIAGRAMS

LEVEL 01 AV PLAN

AUDIOVISUAL DIAGRAMS

6

BOLS & ABBREV. E PLAN E PLAN

IICAL FLOOR PLAN OR PLAN - AREA 'A' OR PLAN - AREA 'B' OR PLAN - AREA 'C' IICAL FLOOR PLAN OR PLAN - AREA 'C'

ANS

IG FLOOR PLAN PLAN - AREA 'A' PLAN - AREA 'B' PLAN - AREA 'C' G FLOOR PLAN LAN & ROOF

AND GAS

NOTES

WER PLAN WER PLAN

AV SYMBOLS, SCHEDULES AND NOTES

ARCH | NEXUS Architectural NEXUS, Inc. 2505 East Parleys Way Salt Lake City, Utah 84109 T 801.924.5000 http://www.archnexus.com Original drawings remain the property of the Architect and as such the Architect retains total ownership and control. The design represented by these drawings is sold to the client for a one time use, unless otherwise agreed upon in writing by the Architect. © Architectural Nexus, Inc. 2014

> Z C  $\mathbf{O}$ Ш Ζ Ш С Ζ

 $\square$ 

0

# Date Revision 1 06/25/18 Addendum 1

С Ш

EQU

CONSTRUCTION DOCUMENTS

 

 NEXUS PROJ. #:
 17179

 CHECKED BY:
 KH

 DRAWN BY:
 JPA

 DATE:
 06.08.18

 GENERAL INFORMATION















D

С

A

1

2

3

DOOR 3CHEDULE														
_		DO	OR	1			FRAME			_				
	SI	ZE				DETAIL				FIRE		HARDWARE		
DOOR #	WIDTH	HEIGHT	TYPE	FINISH	HEAD	JAMB	THRESH	TYPE	FINISH	RATING	GLAZING	GROUP 1	NOTES	NUMBER
100a	3' - 4"	7' - 0"	HS01	PX1	-	D5/A604	-	HM01	PX1	-	-		5	100a
100b	3' - 5"	7' - 0"	HS01	PX1	-	D5/A604	-	HM01	PX1	-	-		5	100b
100c	12' - 0"	14' - 0"	OH01	PF	-	D3/A604	-	-	-	-	-	CHD-100 2	1	100c
100d	3' - 5"	7' - 0"	HS01	PX1	-	D5/A604	-	HM01	PX1	-	-	104	) 5	100d
101a	6' - 0"	7' - 8"	AP01	AL	C5/A604 SIM	D2/A601 SIM	B2/A601	F	AL	-	G2	AS-101 2	3,4	101a
101b	6' - 0"	7' - 8"	AP01	AL	E2/A601	D2/A601	-	IG	AL	-	G6	AS-102	4	101b
102a	2' - 6"	6' - 8"	WS01	WD	E1/A601	D1/A601	-	HM01	PT2	45 MIN	-	205 2	-	102a
103	3' - 0"	7' - 0"	WS01	WD	E1/A601	D1/A601	-	HM01	PT2	-	-	206	-	103
108	3' - 0"	7' - 0"	WS01	WD	E1/A601	D1/A601	-	HM01	PT2	-	-	<u>&gt; 210 </u>	-	108
109	3' - 0"	7' - 0"	WS01	WD	E1/A601	D1/A601	-	HM01	PT2	-	-		-	109
110	3' - 0"	7' - 0"	WS01	WD	E1/A601	D1/A601	-	HM01	PT2	-	-	204	-	110
112a	3' - 6"	7' - 8"	AS01	AL	C5/A604 SIM	B5/A604 SIM	B2/A601	K	AL	-	G2	AS-201	3,4	112a
112b	3' - 0"	7' - 0"	WS01	WD	E1/A601	D1/A601	-	HM01	PT2	-	-	208	-	112b
112c	3' - 0"	7' - 8"	AS01	AL	D1/A604 SIM	C1/A604 SIM	-	IL	AL	-	G4	AS-105	) -	112c
113	3' - 6"	7' - 8"	HS01	PX1	-	D2/A604	-	HM01	PX1	-	-	<u> </u>	-	113
115a	6' - 0"	7' - 8"	AP01	AL	D1/A604 SIM	C1/A604 SIM	-	IC	AL	-	G4	AS-101	4	115a
115b	6' - 0"	7' - 8"	AP01	AL	D1/A604 SIM	C1/A604 SIM	-	IA	AL	-	G4	AS-101 🏒	4	115b
116	3' - 0"	7' - 0"	WS01	WD	E1/A601	D1/A601	-	HM01	PT2	-	-	201	4	116
116a	3' - 0"	7' - 0"	WS01	WD	E1/A601	D1/A601	-	HM01	PT2	-	-	210 🟒	-	116a
117	3' - 0"	7' - 0"	WS01	WD	E1/A601	D1/A601	-	HM01	PT2	-	-	201	4	117
117a	3' - 0"	7' - 0"	WS01	WD	E1/A601	D1/A601	-	HM01	PT2	-	-	210 🗸	-	117a
118a	3' - 0"	7' - 8"	WS02	WD	E2/A601	D2/A601	-	IF	AL	-	G6	209	) -	118a
118b	3' - 0"	7' - 8"	WS02	WD	E2/A601	D2/A601	-	IF	AL	-	G6	209	-	118b
119a	3' - 0"	7' - 8"	HS03	PX2	-	C4/A604	-	HM01	PX2	-	-	- 103	-	119a
119b	3' - 0"	7' - 0"	WS01	WD	E1/A601	D1/A601	-	HM01	PT2	-	-	207	-	119b
121	3' - 0"	7' - 0"	WS01	WD	E1/A601	D1/A601	-	HM01	PT2	-	-	210	-	121
122	3' - 0"	7' - 0"	WS01	WD	E1/A601	D1/A601	-	HM01	PT2	-	- (	210	-	122
123a	6' - 0"	7' - 8"	AP01	AL	C5/A604 SIM	D2/A601	B2/A601	С	AL	-	G2	AS-101	3,4	123a
123b	6' - 0"	7' - 8"	AP01	AL	E2/A601	D2/A601	-	IE	AL	-	G6	AS-102	4	123b
124a	3' - 0"	7' - 8"	WS02	WD	E2/A601	D2/A601	-	ID	AL	-	G6	202	-	124a
124b	3' - 0"	7' - 8"	WS02	WD	F2/A601	D2/A601	-	ID	Al	_	G6	202	)	124b
124c	3' - 0"	7' - 8"	WS02	WD	E2/A601	D2/A601	-	ID	Al	-	G6	202	-	124c
124d	3' - 0"	7' - 8"	WS02	WD	E2/A601	D2/A601	-	ID	Al	-	G6	202	-	124d
121a 124e	3' - 0"	7' - 8"	WS02	WD	E2/A601	D2/A601	-	םו חו			G6	202		124e
1216 124f	3' - 0"	7' - 8"	WS02	WD	E2/A601	D2/A601		םו חו		-	G6 (	202		124f
124n	29' - 1"	8' - Δ"	OP01	-	Δ4/Δ512	-	-	-	-	_	-	FI D-200	2	1240
1249 124h	20 - 1"	0 - <del>4</del> 8' <u>-</u> 4"			Δ1/Δ512	_					-	FLD-200	2	124g
125	<u></u> ۲	יי ד <sup>י ב</sup> 7' <sub>-</sub> חיי		-		D1/A601		- HM01	DT2			2002	<b>L</b>	125
125	0 - 0 2' 0"	7' 0"					- R2/A601		ΛI	-	- 		- 31	125
120a	2 - 0 2' 0"	7 - 0	AS01		E2/A601	DJ/A004 SIIVI	DZ/AUU I			-		AS-103	3,4	120a
1200	ט - ט יי חיי	/ - 0 7' 0''	1001				-			-	GO	2004	4	1200
121	ט - ט יי חיי	/ - U 7' 0"					-			-	-	204	-	12/
12ð	J - U	/ - Ŏ - ,			-		-			-	- (		-	120
204	5° - 0"	/ - U"	WSU1	VVD			-	HIMUT		-	- (	210	-	204
205	5° - 0"	/ - U"	WS01	WD			-	HIMU1	P12	-	-		-	205
206	3' - 0"	/' - U"	WS02	WD DV(2	E1/A601	D1/A601	-	HM01	P12	-	G6	100	-	206
206a	3' - 6"	(' - 5"	HS02	PX2	-	C4/A604 SIM	-	HM01	PX2	-	- (	212 4	3,6	206a
207	3' - 0"	7' - 0"	WS02	WD	E1/A601	D1/A601	-	HM01	PT2	-	G6	211	<u>/</u> -	207
208	3' - 0"	7' - 0"	WS02	WD	E1/A601	D1/A601	-	HM01	PT2	-	G6	211	) -	208
209	3' - 0"	7' - 0"	HS01	PX1	-	D2/A604	-	HM01	PX1	-	-	204	-	209

1	OVERHEAD COILING DOOR. BASIS OF DESIGN
2	OPERABLE PARTITION. BASIS OF DESIGN: MO
ર	PROVIDE ACCESS CONTROL

ა	PROVIDE ACCESS CONTROL
4	PROVIDE DOOR ACTUATOR AND AUTO OPENE
<b>F</b>	

DOOR HEIGHT TO ALIGN WITH EXTERIOR FIB

6	DOOR HEIGHT TO ALIGN WITH EXTERIOR FIBE
-	

DOOR FINISH LEGEND

AL ALUMINUM, ANODIZED, COLOR TO BE SELECTED PT PAINT, REFER TO FINISH DRAWINGS

WD WOOD, STAINED, COLOR TO BE SELECTED

G1 | 1" INSULATED, CLEAR

G6 | 1/4" TEMPERED, CLEAR

GLASS

G5 1/4" CLEAR

SEE SCHEDULE

DOOR TYPE: OH01 CONST: STEEL OVERHEAD COILING

SEE

SCHED

[**\_\_\_\_** 

<u>DOOR TYPE: HS02</u> CONST: HOLLOW METAL GRADE II 18 GA PRIMED

щ

SEE SCHED

<u>DOOR TYPE: HS01</u> CONST: HOLLOW METAL GRADE II 18 GA PRIMED

G2 | 1" INSULATED, TEMPERED, CLEAR

G3 1" INSULATED, ONE-WAY MIRROR GLASS

GLAZING SCHEDULE

PX PAINT, EXTERIOR, COLOR TO BE SELECTED PF PRE-FINISHED BY MANUFACTURER

## **GENERAL NOTE -DOOR & WINDOW**

- A. FIELD VERIFY ALL DIMENSIONS PRIOR TO SHOP DRAWING SUBMITTAL & SUBSEQUENT FABRICATION OF ALL DOOR AND WINDOW FRAMES
- B. PROVIDE CLEARANCE REQUIRED BY ACCESSIBILITY CODES ANSI A117.1 AND ADAAG AT ALL DOORS C. DOOR LITE DIMENSIONS SHOWN REPRESENT
- THE FINISHED CLEAR GLAZED OPENING BETWEEN TRIM KIT ELEMENTS

## DOOR SCHEDULE NOTES N: CORNELL; ROLLING DOOR, SERVICE DOOR ESD10. FRAME AND HARDWARE BY MANUFACTURER DDERNFOLD; ACOUSTI-SEAL, ENCORE - PAIRED PANEL; STC 52; FINISH TO BE SELECTED NEW HOLLOW METAL DOOR AND FRAME TO MATCH EXISTING ARENA DOOR AND PANEL SYSTEM. OPENING SIZE TO FIT WITHIN EXISTING PANEL. FIELD VERIFY BER CEMENT BATTEN. FIELD VERIFY

D		





SEE

FRAME TYPE: HM01 HOLLOW METAL





DOOR TYPE: OP01 CONST: STEEL OPERABLE PARTITION



DOOR TYPE: WS01 CONST: WOOD SOLID CORE



DOOR TYPE: WS02 CONST: WOOD SOLID CORE



DOOR TYPE: WP01 CONST: WOOD SOLID CORE

ARCH | NEXUS Architectural NEXUS, Inc. 2505 East Parleys Way Salt Lake City, Utah 84109 T 801.924.5000 http://www.archnexus.com

Original drawings remain the property of the Architect and as such the Architect retains total ownership and control. The design represented by these drawings is sold to the client for a one time use, unless otherwise agreed upon in writing by the Architect. © Architectural Nexus, Inc. 2014

Z C B 4 **ATION** 

C ₹ 2 

U

M

U,

C

m =  $\overline{O}$ 

# Date Revision 1 06/25/18 Addendum 1

CONSTRUCTION DOCUMENTS

NEXUS PROJ. #: CHECKED BY: DRAWN BY: DATE: 17179 KH JPA 06.08.18 DOOR SCHEDULE **AND TYPES** 

A601



Е

D

С



















5

## **GENERAL NOTE -DOOR & WINDOW**

- A. FIELD VERIFY ALL DIMENSIONS PRIOR TO SHOP DRAWING SUBMITTAL & SUBSEQUENT FABRICATION OF ALL DOOR AND WINDOW FRAMES
- B. PROVIDE CLEARANCE REQUIRED BY ACCESSIBILITY CODES ANSI A117.1 AND ADAAG AT ALL DOORS C. DOOR LITE DIMENSIONS SHOWN REPRESENT
- THE FINISHED CLEAR GLAZED OPENING BETWEEN TRIM KIT ELEMENTS

	GLAZING SCHEDULE XX
G1	1" INSULATED, CLEAR
G2	1" INSULATED, TEMPERED, CLEAR
G3	1" INSULATED, ONE-WAY MIRROR GLASS
G4	1" INSULATED, TEMPERED, ONE-WAY MIRROR GLASS
G5	1/4" CLEAR
G6	1/4" TEMPERED, CLEAR



N











# Date Revision 1 06/25/18 Addendum 1



NEXUS PROJ. #: CHECKED BY: DRAWN BY: DATE: 17179 KH JPA 06.08.18 EXTERIOR STOREFRONT

TYPES

A602





Architectural NEXUS, Inc. 2505 East Parleys Way Salt Lake City, Utah 84109 T 801.924.5000 http://www.archnexus.com

Original drawings remain the property of the Architect and as such the Architect retains total ownership and control. The design represented by these drawings is sold to the client for a one time use, unless otherwise agreed upon in writing by the Architect. © Architectural Nexus, Inc. 2014







CONSTRUCTION DOCUMENTS

colvinengineering.com

# Date Revision

1 6/21/18 ADD 01

NEXUS PROJ. #: CHECKED BY: DRAWN BY: DATE: 17179 BRC CEA 06.08.18 LEVEL 1

MECHANICAL FLOOR PLAN -AREA 'C'

M101C

	EXHAUST FAN SCHEDULE (EF)															
PLAN CODE	AREA SERVED	TYPE	CFM @ ELEV	ESP @ ELEV	FAN RPM	BHP	MC HP	TOR EFFICIENCY %	VOLT/ PH	SONES	DAMPER (GRAVITY OR MOTOR)	METHOD OF CONTROL	OPENING SIZE	MAX OPERATING WT (LBS)	MANUFACTURER & MODEL NO	REMARKS
EF-1	LEVEL 1 GENERAL	ROOFTOP DOWNBLAST	950	.55	1355	1/6	.136	N/A	115/1	8.9	MOTOR	OCCUPANCY	15.5"X15.5"	76	COOK ACED-EC 120C17D	-
EF-2	LEVEL 2 GENERAL	ROOFTOP DOWNBLAST	150	.46	1472	1/6	.04	N/A	115/1	5.3	MOTOR	OCCUPANCY	13.5"X13.5"	52	COOK ACED-EC 90C17DEC	-

							MAK	E UP AIR	UNIT SCH	IEDULE (N	/IUA)	$\sim$	$\sim\sim\sim$	$\sim\sim\sim$	$\sim$	<b>、</b>	
		EXTERNAL		FAN		HEA	ATING		MAXIMUM D		) }	•	COMBUSTION	N VENT/INTAKE	2)	}	
PLAN CODE	CFM @ ELEV	SP (IN WC)	HP	VOLT/ PH	VFD	TYPE	OUTPUT MBH	LENGTH (IN)	WIDTH (IN)	HEIGHT (IN)	WEIGHT (LBS)	VENT DIA (IN)	VENT TYPE	INTAKE DIA (IN)	INTAKE TYPE	MANUFACTURER & MODEL NO	REMARKS
MUA-1	4000	2	2.87	208/3	3 HP	NG	222	92	55	41	1042	6	SINGLE WALL	6	SINGLE WALL	STERLING ME35A6B01J43410A6B3E3H3H4J1K5R2	-
				VENSIONS LISTER	DARE CRITICA						<u>ر</u>	in	سس	un	m		

Single wall vent pipe to be 26 gauge galvanized steel or material of equivalent durability and corrosion resistance for vent system.
 Single wall vent pipe joints and seams to prevent leakage. Use general electric rtv-108 or dow corning rtv-732 silicone sealant or 3M #425
 Aluminum foil tape or equivalent.

															$\sim\sim\sim$	$\sim\sim\sim$	$\sim\sim\sim$	$\sim$	5	
	SPECIFI	ED UNIT CAPAC	ITY (MBH)	0514	THROW AT		ELEC	TRICAL			MAX DIN	IENSIONS		2	COMBUSTION VENT/INTAKE					
PLAN CODE	INPUT (SL)	OUTPUT (SL)	OUTPUT 7,000 FT	(STD)	18' MOUNTING (FT)	VOLT/ PH	FAN HP	MOTOR AMPS	TOTAL AMPS	LENGTH (IN)	WIDTH (IN)	HEIGHT (IN)	WEIGHT (LBS)	2	VENT DIA (IN)	VENT TYPE	INTAKE DIA (IN)	INTAKE TYPE	& MODEL NO	REMARKS
UH-1	300	246	196.8	4545	69	120/1	1/2	7	8.11	42.53	22.05	31.31	270	ž	6	B-VENT	6	SINGLE WALL	MODINE PTS 300	-
UH-2	300	246	196.8	4545	69	120/1	1/2	7	8.11	42.53	22.05	31.31	270	Z	6	B-VENT	6	SINGLE WALL	MODINE PTS 300	
														m	m	m	m			

		_
PLAN CODE	DIAMETER	
AFR - 1	4"	
AFR - 2	5"	
AFR - 3	6"	
AFR - 4	8"	
AFR - 5	10"	
AFR - 6	8"	
AFR - 7	10"	
1 provide	TRANSITIONS F	F

D	g and/or use is illegal and subject to prose
	Utah. All rights reserved. Unauthorized copyin
C	colvin Engineering Associates, Inc. Salt Lake City,
	2018 by C

6/19/2018 9:47:11 AM

В

2

AUST	FAN	SCH	HED	UL	E	(E

3

## GAS FIRED UNIT HEATER SCHEDULE (UH)

	ELECTRIC HEATER SCHEDULE (EH) ①												
		ELEC	TRICAL		0714								
PLAN CODE	TYPE	TOTAL KW	VOLT/ PH	MAX AMPS	(ALT)	MOUNTING	QUANTITY	& MODEL NO	REMARKS				
EH-1	WALL MOUNT	4	208/1	19.2	100	2' AFF	3	QMARK AWH4408F	-				
EH-2	WALL MOUNT	2	208/1	9.6	100	2' AFF	2	QMARK AWH4408F	-				
EH-3	CEILING	NA	120/1	8.3	65	CEILING	8	QMARK QCH1101F	-				
1) THERMO	STAT IS INTEGR	AL TO THE UNIT											

	LOUVER SCHEDULE (L)													
PLAN CODE	CFM	VELOCITY (FPM)	FREE AREA (SF)	MAX DIMENSIONS (WxH) (IN)	MANUFACTURER & MODEL NO									
L-1	33,900	350	95	146 x 156	RUSKIN ELF6375DX									
L-2	11,300	900	20.6	44 x 70	RUSKIN ELF6375DX									
L-3	4,000	800	5	46 x 30	RUSKIN ELF6375DX									

VAV		GONLY	PLAN CODEFLOOR-BOX NO MAX CFM							
			PLAN CO	DDE	## )					
PLAN CODE	INLET SIZE (IN)	DESIGN INLET SP (IN WC)	MAX CFM	MAX NC	MAX SP DROP (IN WC)	MIN CONTROL CFM				
6C	6	1.0	500	34	0.22	80				
8C	8	1.0	900	33	0.05	150				
10C	10	1.0	1200	34	0.05	230				
12C	12	1.0	1600	34	0.05	325				
14C	14	1.0	2800	35	0.07	450				
16C	16	1.0	3400	35	0.05	580				
24C	24	1.0	5000	35	0.05	1400				

## MOTORIZED DAMPER SCHEDULE (D)

PLAN CODE	CFM	VELOCITY (FPM)	FREE AREA (SF)	MAX DIMENSIONS (WxH) (IN)	DUTY			
D-1	33,900	33,900 350 95			FULLY OPEN/CLOSE			
D-2	11,300	900	20.6	44 x 70	FULLY OPEN/CLOSE			
D-3	11,300	900	20.6	44 x 70	FULLY OPEN/CLOSE			

	AIRF	LOW REGULATOR (	(AFR)	)
ETER	CFM RANGE	MANUFACTURER & MODEL NO		REMARKS
	10 - 60	ALDES CAR-IIA 18 110A - 18 109A	1	0 To 2 CLIPS
	35 - 105	ALDES CAR-IIA 18 121A - 18 124A	1	0 To 2 CLIPS
	75 - 175	ALDES CAR-IIA 18 131A - 18 134A	1	0 To 3CLIPS
	125 - 295	ALDES CAR-IIA 18 141A - 18 145A	1	0 To 3 CLIPS
	205 - 401	ALDES CAR-IIA 18 151A - 18 155A	1	0 To 3 CLIPS
	415-470	ALDES CAR-II-HP 18 346 - 18 347	1	HIGH PRESSURE, NO CLIPS
	525-705	ALDES CAR-II-HP 18 355 - 18 358	1	HIGH PRESSURE, NO CLIPS
ONS F	ROM DUCT TO A	AIR FLOW REGULATOR.		

				5							6	
						AIR	DEVICE	SCHEDULE	<b>E</b>		PLAN CODE	GRILLE
PLAN CODE	TYPE & DUTY	FACE SIZE	NECK SIZE	(2) CEILING TYPE	MAX CFM	MAX TP (IN WC)	NC LEVEL MAX	MIN THROW (FT) (T50)	4-WAY MIN THROW (T50)	2-WAY MIN THROW (T50)	MANUFACTURER & MODEL NO	REMARKS
1	LINEAR- SUPPLY	24"L	6"Ø	MATCH CEILING	80	0.08	32	12	-	-	TEMP0 L.D.	1 @ 1" SLOT
2	LINEAR- SUPPLY	24"L	8"Ø	MATCH CEILING	160	0.09	33	13	-	-	TEMP0 L.D.	2 @ 1" SLOT
3	LINEAR- SUPPLY	24"L	8"Ø	MATCH CEILING	240	0.10	34	14	-	-	TEMP0 L.D.	3 @ 1" SLOT
4	LINEAR- SUPPLY	24"L	10"Ø	MATCH CEILING	320	0.11	35	15	-	-	TEMP0 L.D.	4 @ 1" SLOT
5	LINEAR- SUPPLY	48"L	8"Ø	MATCH	160	0.08	32	12	_	-	TEMP0	1 @ 1" SLOT
6	LINEAR-	48"L	10"Ø	MATCH	320	0.09	33	13	-	-	TEMP0	2 @ 1" SLOT
7	LINEAR-	48"L	12"ØL	MATCH	480	0.10	34	14	-	-	TEMP0	3 @ 1" SLOT
8	LINEAR-	48"L	12"Ø	MATCH	640	0.11	35	15	-	-	TEMP0	4 @ 1" SLOT
9	PERFORATED	24" X 24"	22" X 22"	MATCH	1200	0.05	17		_	_	TITUS	
10	PERFORATED	24" X 12"	22"X 10"	MATCH	600	0.06	10				TITUS	
11	PERFORATED	24" X 24"	22" X 22"	MATCH	1200	0.05	17				TITUS	
12	PERFORATED	24" X 12"	22"X 10"	MATCH	600	0.06	10				TITUS	
13	PERFORATED	8" X 8"	6" X 6"	MATCH	120	0.12	10		_	-	TITUS 8F	
14	PERFORATED	10" X 10"	8" X 8"	MATCH	225	0.12	12			-	TITUS 8F	
15	PERFORATED	12" X 12"	10" X 10"	MATCH	360	0.12	14	-			TITUS 8F	
16	PERFORATED	14" x 14"	12" X 12"	MATCH	550	0.12	16			-	TITUS 8F	
17	PERFORATED	16" X 16"	14" x 14"	MATCH	750	0.12	17				TITUS 8F	
18	PERFORATED	20" X 20"	18" X 18"	MATCH	1250	0.12	19				TITUS 8F	
19	PERFORATED EXHAUST GRILLE	24" X 24"	22" X 22"	MATCH	1900	0.12	21		-	-	TITUS 8F	-
20	PERFORATED EXHAUST GRILLE	32" X 32"	30" X 30"	SURFACE	3600	0.12	24	-	-	-	TITUS 8F	
21	RADIAL BLADE	12"□	8"Ø	SURFACE	210	0.14	29	8	-	-	AIR DIFFUSION PRODUCTS	-
22	RADIAL BLADE DIFFUSER	15"□	10"Ø	SURFACE	330	0.14	29	10		-	AIR DIFFUSION PRODUCTS	-
23	RADIAL BLADE DIFFUSER	18"□	12"Ø	SURFACE	470	0.14	30	12	-	-	AIR DIFFUSION PRODUCTS DNR	-
24	RADIAL BLADE DIFFUSER	21"□	14"Ø	SURFACE	640	0.14	30	14	-	-	AIR DIFFUSION PRODUCTS DNR	-
25	RADIAL BLADE DIFFUSER	24"□	16"Ø	SURFACE	840	0.14	30	15	-		AIR DIFFUSION PRODUCTS DNR	-
26	RADIAL BLADE DIFFUSER	24" X 24"	8"Ø	GRID	210	0.14	29	8	-	-	AIR DIFFUSION PRODUCTS DNR	-
27	RADIAL BLADE DIFFUSER	24" X 24"	10"Ø	GRID	330	0.14	29	10	-	-	AIR DIFFUSION PRODUCTS DNR	-
28	RADIAL BLADE DIFFUSER	24" X 24"	12"Ø	GRID	470	0.14	30	12	-	-	AIR DIFFUSION PRODUCTS DNR	-
29	RADIAL BLADE DIFFUSER	24" X 24"	14"Ø	GRID	640	0.14	30	14	-	-	AIR DIFFUSION PRODUCTS DNR	-
30	RADIAL BLADE DIFFUSER	24" X 24"	16"Ø	GRID	840	0.14	30	15	-	-	AIR DIFFUSION PRODUCTS DNR	-
31	ADJUSTABLE LOUVERED	24" X 24"	6"Ø	MATCH CEILING	170	0.13	25	ADJUSTABLE	11	18	TITUS TDCA	18" x 18" CORE
32	ADJUSTABLE LOUVERED	24" X 24"	8"Ø	MATCH CEILING	310	0.13	27	ADJUSTABLE	14	24	TITUS TDCA	18" x 18" CORE
33	ADJUSTABLE LOUVERED	24" X 24"	10"Ø	MATCH CEILING	440	0.13	28	ADJUSTABLE	17	26	TITUS TDCA	18" x 18" CORE
34	ADJUSTABLE LOUVERED	24" X 24"	12"Ø	MATCH CEILING	600	0.14	28	ADJUSTABLE	21	33	TITUS TDCA	18" x 18" CORE
35	ADJUSTABLE LOUVERED	24" X 24"	14"Ø	MATCH CEILING	800	0.13	29	ADJUSTABLE	24	39	TITUS TDCA	18" x 18" CORE
36	ADJUSTABLE LOUVERED	24" X 24"	16"Ø	MATCH CEILING	950	0.11	29	ADJUSTABLE	26	41	TITUS TDCA	18" x 18" CORE
37	BAR FLOOR DIFFUSER	2 1/2"	2 1/2" x L	-	80/FT	0.10	24	-	-	-	TITUS CT-480	-
38	BAR FLOOR DIFFUSER	4"	4" x L	-	150/FT	0.10	28	-	-	-	TITUS CT-480	-
39	BAR FLOOR DIFFUSER	6"	6" x L	-	230/FT	0.09	28	-	-	-	TITUS CT-480	-
40	THERMALLY CONTROLLED DIFFUSER	24" X 24"	8"Ø	GRID	260	0.15	35	-	-	-	THERMAFUSER	-
41	SIDE WALL SUPPLY	8" X 8"	8" X 8"	-	-	-	30	-	-	-	TITUS 300FS	
42	SIDE WALL SUPPLY	10" X 10"	10" X 10"		-	-	30	-	-	-	TITUS 300FS	
43	SIDE WALL SUPPLY	12" X 12"	12" X 12"	-	-	-	30	-	-	-	TITUS 300FS	
44	SIDE WALL RETURN	10" X 10"	10" X 10"	-	-	-	30	-	-	-	TITUS 350FS	
45	SIDE WALL RETURN	12" X 12"	12" X 12"	-	-	-	30	-	-	-	TITUS 350FS	
			-				-					

RECOMMENDED MINIMUM DISTANCE BETWEEN DIFFUSERS IN 9' CEILING.
 VERIFY FRAME TYPE OF ALL AIR DEVICES WITH ARCHITECTURAL REFLECTED CEILING PLAN BEFORE ORDERING.



M601

<mark>6</mark>/1 د

D

Е

2





Architectural NEXUS, Inc. 2505 East Parleys Way Salt Lake City, Utah 84109 T 801.924.5000 http://www.archnexus.com

Original drawings remain the property of the Architect and as such the Architect retains total ownership and control. The design represented by these drawings is sold to the client for a one time use, unless otherwise agreed upon in writing by the Architect. © Architectural Nexus, Inc. 2014



Μ R Ż

0

Ш



COLVIN ENGINEERING ASSOCIATES 244 West 300 North, Suite 200 Salt Lake City, Utah 84103 Phone 801.322.2400 colvinengineering.com 1 6/21/18 ADD 01

## CONSTRUCTION DOCUMENTS

NEXUS PROJ. #: CHECKED BY: DRAWN BY: DATE: 17179 BB CEA 06.08.18

LEVEL 1 PLUMBING FLOOR PLAN -AREA 'C'

P101C

#### **Electrical Addendum #1**

#### GENERAL NOTES:

1. Floor plan scale on level 2 for power and lighting sheets has been scaled to 3/16" = 1'-0" for clarity on the drawings. Carefully review the scale for each floor plan when measuring off the drawings.

#### CHANGES TO THE SPECIFICATIONS:

SPECIFICATION #27 4100 AUDIOVISUAL SYSTEMS

1. Section 2.4 EQUIPMENT REQUIRED PER ROOM TYPE

DMeeting Room

i. Add DRAWER, PULL OUT RACK MOUNT, LATCHING, 2 RU – MIDDLE ATLANTIC – D2.

SPECIFICATION #28 2205 ACCESS CONTROL SYSTEMS

- 1. Added PST as an approved installer.
- 2. Updated section 1.6 SUBMITTALS A-C:
  - A. PRODUCT DATA: Submit manufacturer's data sheets including specifications, installation instructions, and general recommendation for each type of equipment specified. Refer to specification 26 0500 for shop drawing submittal requirements. The following items shall be included in the shop drawings submittal. Submittals to be reviewed and approved prior to ordering equipment.
    - 1. <u>All submittals shall be submitted in a digital format with bookmarks for each section of equipment. Any submittals that are partial or incomplete shall be rejected and count as one submittal against the submittal allowance. No hand-written documentation is allowed.</u>
    - 2. <u>Provide a complete bill of materials for all components, accessories and hardware to be provided in order to assemble a complete and working system as described within the contract documents.</u>
    - 3. <u>Submit manufacturer's data and installation details for all devices, panels, cables and head-end equipment. Product data showing multiple options, products and/or models shall be clearly marked identifying the specific options, products and/or models being provided.</u>
    - 4. <u>Submit dimensioned drawings and device wiring layouts for all equipment.</u>
    - 5. <u>Submit equipment rack elevation diagrams (if applicable).</u>
    - 6. <u>Submit network switch port count and power requirements. Port count and</u> <u>POE switch requirements should be broken out per IDF/MDF closet.</u>
    - 7. <u>Submit manufacturer certifications for all systems provided. Certifications</u> <u>must be from local office providing the install.</u>
  - B. Provide the Owner the following <u>upon project completion:</u>
    - 1. <u>A complete set of shop drawings indicating: Locations of all panels, power</u> supplies and controllers; point-to-point wiring diagrams for all devices.
    - 2. <u>A complete equipment list identifying: Type; model; manufacturer;</u> manufacturer's data sheets.

Page 1 of 5

#### **18045 NAC EQUESTRIAN CENTER**

#### Electrical Addendum #1

- 3. Contractor to provide a list of IP address, username and passwords for network devices coordinated with door name and/or location. A list of IP and MAC addresses, username and passwords for network devices coordinated with door name and/or location.
- 4. Serial and model numbers for all major components.
- 5. Installation manuals and user manuals for all systems listed in these specifications.

SHOP DRAWINGS: Submit dimensioned drawings and wiring layout for any changes in wiring from the layout on the drawings.

3. Updated Section 2.2 with approved power supplies.

4 Door Power Supply ACS Enclosure	Life Safety Power	FP075-
B100C4D8PE2M		

8 Door Power Supply ACS Enclosure Life Safety Power FPO150-B100C8D8PE4M1

#### 16 Door Power Supply ACS Enclosure Life Safety Power FPO150/250-2C82D8PE8M2

#### CHANGES TO THE DRAWINGS:

SHEET E001

- 1. Added description to the DP symbol.
- 2. Adjusted the sheet index to reflect new sheet numbering
- 3. Fixed general notes and electrical utility coordination.
- 4. Review drawings for all changes.

#### SHEET E002

- 1. Added access control schedule.
- 2. Revised Light Fixture Schedule.
- 3. Adjusted the disconnect notes in the equipment schedule.
- 4. Changed the unit heater voltage from 208 to a 120 and adjusted the HP rating.
- 5. Added fixtures to the fixture schedule.
- 6. Adjusted fixtures catalog numbers and descriptions.
- 7. Added a floor box schedule.
- 8. Review drawings for all changes.

#### SHEET E101

- 1. Updated site to show correct location of existing pull boxes and utility services.
- 2. Added keynotes for clarity.
- 3. Re-routed new feeds for utility services to the building.
- 4. Refer to sheet for all changes.

#### SHEET E201

- 1. Added emergency lighting throughout.
- 2. Added exit signage throughout.
- 3. Annotated light switches.
- 4. Added MS# lighting switches at check-in desk.

#### **18045 NAC EQUESTRIAN CENTER**

#### **Electrical Addendum #1**

- 5. Relocated suspended lighting fixtures to the second floor.
- 6. Review drawings for all changes.

#### SHEET E202

- 1. Added emergency lighting throughout.
- 2. Removed 4X2 lighting fixtures in the mechanical room and added the relocated suspended lighting fixtures to new location.
- 3. Review drawings for all changes.

#### SHEET E301

- 1. Add AV data symbol 'TP7' to south wall of Multi-Purpose Room 124.
- 2. Repositioned ADA actuators on all doors. Moved to pedestals on doors 101, 123, and 126.
- 3. Added ADA to Door 112C.
- 4. Added telephone boards and outlets in the electrical room.
- 5. Added junction boxes and circuiting for ADA doors.
- 6. Adjusting receptacle locations in the worming kitchen and the meeting room.
- 7. Added power and data outlets for multi-purpose area.
- 8. Review drawings for all changes.

#### SHEET E302

- 1. Adjusted junction boxes and data location and connections in the open office.
- 2. Review drawings for all changes.

#### SHEET E303

- 1. Adjusted disconnects configurations for mechanical equipment.
- 2. Adjusted circuit numbers for disconnects.
- 3. Review drawings for all changes.

#### SHEET E304

- 1. Repositioned card readers on all doors. Moved to pedestals on doors 101, 123, and 126.
- 2. Tagged doors to reference diagrams for rough-in.
- 3. Review drawings for all changes.

#### SHEET E401

- 1. Repositioned card readers on all doors. Moved to pedestals on doors 101, 123, and 126.
- 2. Tagged doors to reference diagrams for rough-in.
- 3. Review drawings for all changes.

#### SHEET E402

- 1. Added floor plan of existing stable and equestrian arena to include fire alarm layout.
- 2. Refer to sheet for all changes.

#### SHEET E403

- 3. Re-assigned sheet from E402 to E403
- 4. Repositioned card readers on all doors. Moved to pedestals on doors 101, 123, and 126.
- 5. Tagged doors to reference diagrams for rough-in.
- 6. Review drawings for all changes.

Page 3 of 5

#### Electrical Addendum #1

#### SHEET E501

1. Updated one-line diagram to show correct service entrance configuration and match the site changes. Refer to sheet for all changes.

#### SHEET E601

- 1. Added spare circuit breakers.
- 2. Changed the 1Im1 panel from a 42-circuit panel to a 84 circuit panel
- 3. Adjusted load amounts on the panels.
- 4. Added Control Relay Schedule
- 5. Review drawings for all changes.

#### SHEET E704

- 1. Added door diagrams to show rough-in for access control and door hardware.
- 2. Added Lighting Control Switch diagrams.
- 3. Review drawings for all changes.

#### SHEET ET301

- 1. Add reference Sheet Keynote:
  - a. 'T1' to room scheduling device, 'RS7', located just outside Meeting Room 11B.
  - b. 'T8' to the south side of the Multi-Purpose Room 124 in three locations, center, southeast corner, and southwest corner.
- 2. Change reference Sheet Keynote:
  - a. 'T2' located adjacent 'TP7' device to 'T1'.
- 3. Change 'RxH' devices located adjacent to projectors 'P1' to 'Rx'.
- 4. Move newly changed 'Rx' located in northern part of Multi-Purpose Room 124 next to projector 'P1'.
- 5. Add all room tags in each room. Room tags are exact same as shown on E301.
- 6. Change reference Sheet Keynote 'T9' to 'T7'.
- 7. Add new Sheet Keynote 'T8', which should read, "ADD 'AT' DEVICE TO THIS LOCATION AT 96" A.F.F. AND CABLE WITH (1) AT TO THE EQUIPMENT RACK 'R1'. SEPARATE THE WIRELESS MICROPHONES ANTENNAS BY A MINIMUM OF 12'-0". PLACE THE ALS ANTENNA IN THE MIDDLE OF THE WIRELESS MICROPHONE ANTENNAS."

#### SHEET ET501

1. Remove the wording, "ZONE 1," from text next to loudspeakers in V202.

#### PRIOR APPROVAL OF MANUFACTURERS OF ELECTRICAL EQUIPMENT

The following items, trade names, products and manufacturers are approved for bidding. Approval does not relieve the bidder from satisfying the intent of the requirements of drawings, specifications and addenda in every respect. Failure to conform to the design quality and standards specified, established and required may result in later disapproval. If equipment must be disapproved after bidding, supplier shall supply specified equipment at no extra cost to the Owner.

Items are listed generally and specific model number, etc. shall be as submitted. Items submitted but not approved, either did not satisfy the requirements, or showed insufficient data, or arrived after the 8-day deadline established for submittals.]

#### 18045 NAC EQUESTRIAN CENTER

#### **Electrical Addendum #1**

#### Issue Date: 06/25/2018

<u>TYPE</u>	SPECIFIED	JRC APPROVED	APPROVED
A1	PHILIPS DAY-BRITE	LITHONIA	COLUMBIA
A1E	PHILIPS DAY-BRITE	LITHONIA*	COLUMBIA*
A 2			ELB
AZ	FOCAL FOINT	FOCAL FOINT	ELECTRONICS
A2a			ELB
Aza	TOCALFOINT	TOCALFOINT	ELECTRONICS*
∆2E			ELB
AZL	TOORETOINT	TOGALTOINT	ELECTRONICS
A2Fa	FOCAL POINT	FOCAL POINT	ELB
		TOORETOINT	ELECTRONICS*
A3	PHILIPS DAY-BRITE	LITHONIA	COLUMBIA
A3E	PHILIPS DAY-BRITE	LITHONIA*	COLUMBIA*
D1	CONTECH	LITHONIA	CONTECH
			LIGHTING
D1E	CONTECH	LITHONIA*	CONTECH
D2	CONTECH	LITHONIA	CONTECH
	LIGHTING		
D3	PHILIPS CALCULITE	INDY	
D3E	PHILIPS CALCULITE	INDY*	
F1F	COOPER METALLIX		COLUMBIA*
		MARK	LUMENWERX*
L1Es	PINNACLE	ARCHITECTURAL*	EGMENTER
		MARK	LUMENWERX*
L1Ew	PINNACLE	ARCHITECTURAL*	
		MARK	LUMENWERX
L1S	PINNACLE	ARCHITECTURAL	
1.4		MARK	LUMENWERX
LIW	PNNACLE	ARCHITECTURAL	
	CONTECH		CONTECH
	LIGHTING		LIGHTING
OD1E	CONTECH		CONTECH
ODIE	LIGHTING	EITHONIA	LIGHTING*
P1	TECH LIGHTING	TECH LIGHTING	-
P2	MODERN FORMS	MODERN FORMS	-
P3	MODERN FORMS	MODERN FORMS	-
S1Es	PHILIPS DAY-BRITE	LITHONIA*	LUMAX*
S1s	PHILIPS DAY-BRITE		LUMAX
S2s	PHILIPS DAY-BRITE	LITHONIA	LUMAX
W1	PRUDENTIAL LIGHTING	ALW	
X1	LITHONIA	LITHONIA	BEGHELLI

\* INDICATES THAT FIXTURE MUST BE PROVIDE WITH EMERGENCY BATTERY BACKUP AS INDICATED IN THE LIGHT FIXTURE SCHEDULE TO BE CONSIDERED APPROVED

#### END OF ELECTRICAL ADDENDUM

1

2

-	
•	

	ECTRICAL SITE U		JURDINAT		
	LECTRICAL SITE UTILITY INFORMATION TILITY COMPANY REPRESENTATIVES. EGULATIONS, ETC., PRIOR TO INSTALL EQUIRED.	N HAS BEEN COORDI VERIFY ALL LOCATIC ATION. NOTIFY ENG	INATED WITH THE FOL DNS, DIMENSIONS, CLE INEER OF ANY REVISE	LOWING EARANCES, ONS	1. SEE FI 2. HEIGH 3. REFEF 4. SUBS( 5. NEMA
8	POWER COMPANY	ROCKY M	OUNTAIN POWE	<u> </u>	6. HEIGH
{	CONTACT	BRYAN M	ILLARD	- 8	STANDARD N
8	PHONE NO.	(435)655-7	7806	- }	SYMBOL
ξ	EMAIL	@ROCKY	MOUNTAINPOWE	R.NET	
ξ	WORK ORDER NO.	6495907		{	
8	ΤΕΙ ΕΡΗΟΝΕ ΓΟΜΡΔΝΥ	X		- R	
ξ	CONTACT	X			
8	PHONE NO.	X		- }	
ξ	EMAIL	X		- R	
Ş	CABLE TV COMPANY	X		- 5	S
{	CONTACT	<u> </u>		- 🤾	
ξ	PHONE NO.	<u>×</u> X		- K	
<u>{</u>				ţ	
				K	
	GENEF	KAL NOT	ES		
{ 1.	CONSULT ARCHITECTURAL REFLECT LIGHTING FIXTURES.	TED CEILING PLANS	FOR EXACT LOCATION		
2.	VERIFY ALL EQUIPMENT DIMENSION	S AND LOCATIONS B	EFORE BEGINNING RO		$\bigcirc$
ξ.	CODE CLEARANCES REQUIRED ARO	UND ALL ELECTRICA	AL EQUIPMENT.		$\otimes \otimes$
۵. ۲	REQUIREMENTS, ETC) OF ALL EQUIR ALL EXISTING FOI IPMENT TO RE PE	PMENT FURNISHED L -USED. RFVIFW 411	JNDER ALL DIVISIONS SHOP DRAWINGS AND	, INCLUDING	\$×
	EQUIPMENT BEFORE BEGINNING RO	UGH-IN.			<b>⊅</b> ° <b>.</b> \$⁴
	MEETINGS WITH MECHANICAL AND C	CEILING CONTRACTO	DRS.		φ \$ <sup>κ</sup>
δ. ζ	SEE APPLICABLE SHOP DRAWINGS F DEVICES, ETC. WHERE APPLICABLE	FOR ROUGH IN LOCA MOUNT ALL WIRING	TION OF ALL EQUIPME DEVICES ABOVE BAC	K SPLASH	<b>\$</b> <sup>₽</sup>
6.	SEE SPECIFICATION FOR ENERGY SA	AVING LAMP AND BA	LLAST REQUIREMENT	s. }	\$ <sup>D</sup>
7.	FINISHES OF ALL LIGHT FIXTURES SH	HALL BE AS SELECTE			\$**** <b>*</b>
\$ °.	CONTRACTOR SUCH THAT NO PIPINO	G, DUCTS, OR EQUIP	MENT FOREIGN TO TH		→ • • X
8	ENTER OR PASS THRU ELECTRICAL ELECTRICAL EQUIPMENT IN OTHER	ROOMS OR SPACES	, OR ABOVE OR BELOV	N R	
<b>9</b> .	ELECTRICAL BOXES SHALL NOT BE L IN GROUTED CELLS ADJACENT TO O	OCATED IN MASONF PENINGS. COORDIN	RY COLUMNS IN BRICK	WALLS OR XES WITH	P
10.	MASONRY CONTRACTOR. ALL PENETRATIONS OF FIRE RATED	FLOORS, WALLS, AN	ID CEILINGS SHALL BE		RO <sub>X</sub>
↓ 11.	WITH APPROVED MATERIAL TO MAIN CIRCUITS EXTENDING OVER 70' FOR	ITAIN FIRE RATING C 120 VOLT AND 115' F	OF SURFACE PENETRA		R
8	SHALL BE RUN WITH CONDUCTORS I	PER TABLE BELOW.		_ }	A
ξ	20 AMP MINIMUM BRA	NCH CIRCUIT COND	UCTOR SIZING	-	
ξ	CONDUCTOR LENGTH (FT)	120 VOLT	277 VOLT	j Š	
8	<70 70 - 115	MIN. #12 AWG MIN. #10 AWG	MIN. #12 AWG MIN. #12 AWG		TC
ξ	115 - 170 170 - 270	MIN. #8 AWG MIN. #6 AWG	MIN. #10 AWG	- K	-
S	271 - 380	NOTE B	MIN. #8 AWG		$\ominus$
ξ					$\square$
ξ	B. PERFORM VOLTAGE DROP CALC	ULATIONS AND PRO	VIDE CONDUCTOR SIZ		€u
8	C. CONTRACTOR SHALL ENSURE TH	P LESS THAN 3% WIT	TH A 15 AMP LOAD. ON OF EACH BRANCH	CIRCUIT	=©
ξ	STAYS WITHIN 3% VOLTAGE DRC CONTRACTOR SHALL INCREASE NO ADDITIONAL COST TO OWNER	OP FOR A 15 AMP LOA WIRE AND CONDUIT	AD. IF NECESSARY, SIZE TO MEET THE ST	ANDARD AT	⇒ <sub>A</sub>
12.	CONTRACTOR SHALL VERIFY FURNIT				
<u>کا</u>	I HKU INSTALLATION. COORDINATE E WITH OWNER AND FURNITURE PROV	EXACT LOCATION OF /IDER PRIOR TO ROU	- FLOUK BUX OR POKE JGH-IN.		
<u>{</u>			V		
<u>}</u>	SHE		λ	R	
E001	SYMBOLS AND NOTES			Ŗ	
				Ķ	<b>•</b>
				K	
E201	LEVEL 02 LIGHTING PLAN			Ŗ	
E301	LEVEL 01 POWER PLAN			K	
				Ş	=
E303	LEVEL 02 MECHANICAL POWER	PLAN PLAN		Ŕ	
E401	LEVEL 01 SYSTEMS PLAN			K	
E402	LEVEL OF SYSTEMS PLAN (EXIS	1. DLUG)		Ş	
E501	ONE-LINE DIAGRAM			K	
E601	PANELBOARD SCHEDULES			Ř	
E701				Ŕ	
E702	ELECTRICAL DIAGRAMS			В	
ET001	AV SYMBOLS, SCHEDULES AND	NOTES		Ŗ	×
ET301	LEVEL 01 AV PLAN			K	
(LET501		······		h	
					1

FIXTURE SCHEDULE FOR TYPE, MOUNTING AND WATTAGE. GHT MEASURED TO CENTER LINE OF THE BOX FROM THE FINISH FLOOR. FER TO DRAWINGS FOR DIRECTIONAL ARROWS. BSCRIPT KEYS SWITCH TO FIXTURES CONTROLLED. MA TYPE 'ND' NON-FUSED UNLESS NOTED 'F' (FUSED). USE 'HD' 480 V. GHT MEASURED TO TOP OF THE BOX FROM FINISH FLOOR.

MOUNTING HEIGHT UNLESS OTHERWISE NOTED ON PLANS

PROVIDE H.O.A. AND S.S. PUSHBUTTONS AS REQUIRED.
 DOUBLE ARROWS DENOTE A DOUBLE FACE UNIT.

BOOBLE ARROWS DENOTE A DOUBLE FACE UNIT.
 COORDINATE WITH MILLWORK SHOP DRAWINGS AND ELEVATIONS FOR HEIGHT.
 SUBSCRIPT DENOTES NEMA CONFIGURATION.
 HEIGHT MEASURED TO BOTTOM OF THE BOX FROM FINISH FLOOR.
 COORDINATE WITH DOOR HARDWARE SUPPLIER.

DESCRIPTION		NOTES	ę
ONE CIRCUIT, HOME RUN TO PANEL			
2 CIRCUIT, HOME RUN TO PANEL			
CONDUIT RUN CONCEALED IN WALL OR CEILING			
CONDUIT RUN CONCEALED IN FLOOR OR GROUND			
CONDUIT UP			
CONDUIT DOWN			
CONDUIT STUB LOCATION	CAP CONDUIT		
CONDUIT/CIRCUIT CONTINUATION			
CABLE TRAY	AS NOTED		
		1	
		ı.	
WALL LIGHT FIXTURE	AS NOTED	1.	
RECESSED DOWNLIGHT FIXTURE	CEILING	1.	
RECESSED WALLWASH DOWNLIGHT FIXTURE	CEILING	1.	
LIGHT FIXTURE	AS NOTED	1	
EGRESS LIGHT FIXTURE	AS NOTED	UNSWITCHED	
	CONCRETE	SEE DIAGRAM	
	BASE		
-LOOD OR TRACK FIXTURE			
CEILING/WALL MOUNTED EXIT LIGHT	AS NOTED	1.3.8.	
SINGLE POLE SWITCH	+4'-0"	6. 4.	
THREE-WAY SWITCH	+4'-0"	6.	
FOUR-WAY SWITCH	+4'-0"	6.	
KEY OPERATED SWITCH	+4'-0"	6.	
		6	
	· 4 -0	0.	
VARIABLE INTENSITY SWITCH	+4'-0"	ΰ.	
TIMER SWITCH	+4'-0"	6.	
MOMENTARY CONTACT SWITCH, CENTER POSITION OF	F +4'-0"	6.	
OW VOLTAGE WALLSTATION (SUBSCRIPT INDICATES	м +4'-0"	6., SEE DIAGRAM	
CEILING/WALL MOUNTED OCCUPANCY SENSOR	CEILING/	<u>5PEC.</u> 6.	
SUBSCIPT A=ANALOG, D = DIGITAL		SEE DIAGRAM,	
		SPEC. SEE DIAGRAM.	
SUBSCRIPT INDICATES NUMBER OF RELAYS)		SPEC.	
EMERGENCY LIGHTING CONTROL UNIT	CEILING	SEE DIAGRAMI, SPEC.	
RECEPTACLE SWITCH PACK	CEILING		
AUTOMATIC RELAY PACK	CEILING	SEE DIAGRAM. SPEC	
LOW VOLTAGE TRANSFORMER		51 20.	
PHOTO-ELECTRIC CONTROL	AS NOTED	TORK 2000A	
		SEE DIAGRAM,	
		SPECIFICATION	
	+5-0 +16" OP	Ζ.	
DUPLEX RECEPTACLE SWITCH CONTROLLED	AS NOTED	9. 11.	
SIMPLEX RECEPTACLE	AS NOTED	9. 11.	
SIMPLEX RECEPTACLE WITH USB OUTLET	+16" OR AS NOTED	9. 11.	
DUPLEX RECEPTACLE	+16" OR	9. 11.	
DUPLEX RECEPTACLE WITH USB OUTLET	+16" OR	9. 11.	
	+16" OR	9 11	
	AS NOTED	o. 11.	
JUPLEX RECEPTACLE		9.	
ELECTRIC WATER COOLER RECEPTACLE		SEE DIAGRAM	
WEATHERPROOF RECEPTACLE	AS NOTED	2. 9.	
SOLATED GROUND RECEPTACLE	+16" OR AS NOTED	2. 9.	
GROUND FAULT INTERRUPTER DUPLEX RECEPTACLE	+16" OR AS NOTED	9. 11.	
DUPLEX RECEPTACLE EMERGENCY POWER (RED)	+16" OR	9. 11.	
FOURPLEX RECEPTACLE	+16" OR	9 11	
	AS NOTED	Q 11	
	HAS NOTED +16" OR	J. 11.	
OURPLEX RECEPTACLE EMERGENCY POWER (RED)	AS NOTED	9. 11.	
IVSS PROTECTED RECEPTACLE	AS NOTED	9. 11.	
SPECIAL PURPOSE OUTLET	+16" OR AS NOTED	10. WITH CAP. 11	
CORD DROP		SEE DIAGRAM	
CORD REEL		NOTESGHTNOTESGHTG<	
TOMBSTONE RECEPTACIE			
	+46" OR		
LUGMOLD	AS NOTED		
	AS NOTED	11.	
FLAT PANEL DISPLAY WALL BOX. REFER TO DIAGRAM	AS NOTED	SEE DIAGRAM.	∦   <sup>_</sup>
V022 IN SHEET ET501 FOR DETAILS.		SPEC.	K
CEILING PROJECTION SYSTEM CEILING BOX	ABOVE	SEE DIAGBAM,~	۲ <b> </b>
	+16" OR	SPEC. 9.11	
	AS NOTED +16" OR	0 11	
JATA OUTLET, TWO CABLES	AS NOTED	J. 11.	
DATA OUTLET, THREE CABLES	AS NOTED	9. 11.	
DATA OUTLET, W/MORE THAN (3) CABLES	+ 16" OR AS NOTED	9. 11.	
WIRELESS ACCESS POINT, ONE CABLE			
	CEILING		
CALL SWITCH	+4'-0"	6.	

SYMBOL	DESCRIPTION	MOUNTING	NOTES
		HEIGHT +7'-6"	8.
FB		FLOOR	SEE DIAGRAM,
		FLOOR	SPEC. SEE DIAGRAM,
		FLOOR	SPEC.
(FT)	FLIP-TOP BOX		9.
J	JUNCTION BOX ('F' IN FLOOR)	AS NOTED	
$\wedge$	MOTOR OUTLET	TO SUIT EQUIP.	
	PUSHBUTTON	+4'-0"	6.
	NON-FUSED DISCONNECT SWITCH	+5'-0"	5.
	EUSED DISCONNECT SWITCH	+5'-0"	5
	MANUAL STARTER THERMAL OVERLOAD SWITCH	. 41 01	0.
>	WITH PILOT LIGHT	+4'-0"	Ζ.
	MAGNETIC STARTER	+5'-0"	7.
	MAGNETIC STARTER / DISCONNECT COMBINATION	+5'-0"	
VFD	VARIABLE FREQUENCY DRIVE	+6'-6"	
	PANEL BOARD	TOP AT +6'-0"	
7/////	MAIN DISTRIBUTION PANEL		
	TELEPHONE TERMINAL BOARD		
	GROUND BUS BAR		
	EQUIPMENT CABINET/RACK		CIRCUIT TO 120
	BELL	+7'-6"	
	CHIME	+7'-6"	
F	FIRE ALARM MANUAL STATION	+4'-0"	6.
	FIRE ALARM SIGNAL HORN/STROBF	+8'-0"	6.
<u>г</u> луоца н			6
	CONCEALED FIRE ALARM SIGNAL HORN/STROBE WALL	+δΩ.	0.
E	FIRE ALARM SIGNAL SPEAKER/STROBE	+8'-0"	6.
[E]CLG	CONCEALED FIRE ALARM SIGNAL SPEAKER/STROBE	CEILING	
[]E	CONCEALED FIRE ALARM SIGNAL SPEAKER/STROBE WALL	+8'-0"	6.
S	FIRE ALARM STROBE	+8'-0"	6.
	CONCEALED FIRE ALARM SIGNAL STROBE	CEILING	
Пs	CONCEALED FIRE ALARM SIGNAL STROBE WALL	+8'_0"	6
			6. 6
			o. MOUNT AS
В	BLUE COLORED LENS (CO VISUAL ALARM)	+8'-0"	PER. MFR.
⊚v	ASPIRATING SMOKE DETECTION SYSTEM	CEILING	PER. MFR.
S	SMOKE DETECTOR	CEILING	
$\bigcirc$	SMOKE/CARBON MONOXIDE DETECTOR	CEILING	
0	CARBON MONOXIDE DETECTOR	CEILING	
<u> </u>	HEAT DETECTOR	CEILING	
	FIRE/SMOKE DAMPER		
$\bigcirc$	DOOR HOLDER	AS NOTED	
F <sub>S</sub>	FLOW SWITCH		
Τ <sub>S</sub>	TAMPER SWITCH		
W <sub>F</sub>	WATER FLOOD INDICATOR		
	O.S. & Y. VALVE		SEE DIAGRAM
	FIRE ALARM CONTROL MODULE		
[MM]			
TWZ	PANEL	+4'-0"	6.
TW	TWO-WAY COMMUNICATION SYSTEM CALL STATION	+4'-0"	6.
• <sub>D</sub>	DURESS PUSHBUTTON	+4'-0"	6.
	SECURITY SYSTEM DOOR SWITCH	DOOR JAMB	
	SECURITY SYSTEM OVERHEAD DOOR SWITCH	CEILING	MOUNT AS
	MAGNETIC SHFAR LOCK		FER. WFR.
		±∕! ∩"	6
		+4-0	0.
	SECURITY SYSTEM KEYPAD	+4'-0"	0.
	INFRARED SENSOR	AS NOTED	
	SECURITY MOTION DETECTOR		PER. MFR.
$\Diamond$	SECURITY SYSTEM POP-IT		MOUNT AS   PER. MFR.
G	GLASS BREAK DETECTOR	CEILING	
 €\$	ELECTRIC DOOR STRIKE		12.
			12.
			_ · _ ·
	ACCESS CONTROL STOTEM, REQUEST TO EXIT	. 41 6"	
	ACCESS CONTROL CARD READER	+4'-0"	δ.
BR	ACCESS CONTROL BIOMETRIC READER	+4'-0"	6.
	CAMERA - SEE SCHEDULE	AS NOTED	SEE DIAGRAM, SPEC.
	DOOR POSITION INDICATING SWITCH		
A	LIGHT FIXTURE (LETTER DESIGNATES TYPE)		
L-##			
к-## /EQ\			
34			
842			
	SEE SCHEDULE		



CONSTRUCTION DOCUMENTS NEXUS PROJ. #: 17179 CHECKED BY: AL DRAWN BY: BHH DATE: 04/14/18 SYMBOLS AND NOTES

	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		$1 \mid$	$\sim\sim\sim\sim\sim$	$\sim\sim\sim\sim$	$\sim$	$\sim$	: 		<u> </u>	3	4	5	<u> </u>	6		$\sim\sim\sim$	<u>~~~~~</u>
•		LOAD			IEDU			OCPD	REFERENC	CE NOTES	LIGHT FIXTURE ABBREVIATION SCHEDULE	LIGHT FIXTURE GENERAL NOTES		FIXTURE §	Proj	ject Manag	er: Mich	nelle Gutknecht
- UNIT #	DESCRIPTION	면 전	VOLT <b>BY HA</b> 120 V 1	4.4 A 3.7	SETS	<b>Δ</b> 2 12	BUD: GND: 12	Bd/L         Sdwp           CB         15 A           CB         15 A	STARTER 84 DISCONNECT 0THER	REMARKS	A.F.F.       ABOVE FINISH FLOOR         WALL@CLG       WALL MOUNT AT CORNER OF WALL AND CEILING         CCBA       CUSTOM PAINTED COLOR AS SELECTED BY THE         ARCHITECT       SCBA         STANDARD PAINTED COLOR AS SELECTED BY THE         ARCHITECT	<ol> <li>REFER TO THE ARCHITECTURAL REFLECTED CEILING PLANS FOR LOCATIONS OF LIGHT FIXTURES. BRING ALL DISCREPANCIES OF LOCATIONS AND QUANTITIES TO THE ATTENTION OF THE ARCHITECT AND ELECTRICAL ENGINEER PRIOR TO BIDDING.</li> <li>REFER TO ARCHITECTURAL ELEVATIONS FOR MOUNTING HEIGHTS AND LOCATIONS OF LIGHT FIXTURES. BRING ALL DISCREPANCIES TO THE ATTENTION OF THE ARCHITECT PRIOR TO BIDDING.</li> <li>REFER TO THE SPECIFICATIONS FOR OTHER LIGHT FIXTURE, FUSING, BALLAST, AND LAMP DECLUPEMENTS, AND ACCEPTABLE MANULEACTUREDS.</li> </ol>	TYPE         DESCRIPTION           A1         1' x 4' RECESSED LED BASKET FIXTURE; CURVED OPAL CENTER DIFFUSER; SFBA AND SCBA; 0-10 DIMMING; 80,000 HOURS (L70); 5 YEAR WARRANTY.           A1E         1' x 4' RECESSED LED BASKET FIXTURE; CURVED OPAL CENTER DIFFUSER; SFBA AND SCBA; 0-10 DIMMING; 80,000 HOURS (L70); 5 YEAR WARRANTY. PROVIDE WITH	MFR. PHILIPS DAY-BRITE PHILIPS DAY-BRITE	CATALOG NUMBER 1EVG38L830-4-D-UNV-DIM + FMA14 1EVG38L830-4-D-UNV-DIM-EMLED + FMA14	VOLTS           120 V           120 V	<b>WATTS</b> 29.5 29.5	LAMP 3,800 LUMEN LED; 3000K CCT; 80+ CRI 3,800 LUMEN LED; 3000K CCT; 80+ CRI
EF 2 EH 1 EH 1 EH 1 EH 2 EH 2	ELECTRIC HEATER	0.04         0 A         0 A         4000 VA           0 A         0 A         0 A         4000 VA           0 A         0 A         0 A         4000 VA           0 A         0 A         0 A         2000 VA           0 A         0 A         0 A         2000 VA	120 V         1           208 V         1	4.4 A         3/           19.2 A         3/           19.2 A         3/           19.2 A         3/           9.6 A         3/	14"         1           /4"         1           /4"         1           /4"         1           /4"         1           /4"         1           /4"         1	2         12           2         10           2         10           2         10           2         12           2         12	$     \begin{array}{r}       12 \\       10 \\       10 \\       10 \\       12 \\       12 \\       12       \\       12       \\       12       \\       12       \\       12       \\       12       \\       12       \\       12       \\       12       \\       12       \\       12       \\       12       \\       12       \\       12       \\       12       \\       12       \\       12       \\       12       \\       12       \\       12       \\       12       \\       12       \\       12       \\       12       \\       12       \\       12       \\       12       \\       12       \\       12       \\       12       \\       12       \\       12       \\       12       \\       12       \\       12       \\       12       \\       12       \\       12       \\       12       \\       12       \\       12       \\       12       \\       12       \\       12       \\       12       \\       12       \\       12       \\       12       \\       12       \\       12       \\       12       \\       12       \\       12       \\       12       \\       12       \\       12       \\       12       \\       12       \\       12       \\       12       \\       12       \\       12       \\       12       \\       12       \\       12       \\       12       \\       12       \\       12       \\       12       \\       12       \\       12       \\       12       \\       12       \\       12       \\       12       \\       12       \\       12       \\       12       \\       12       \\       12       \\       12       \\       12       \\       12       \\       12       \\       12       \\       12       \\       12       \\       12       \\       12       \\       12       \\       12       \\       12       \\       12       \\       12       \\       12       \\       12       $ 12       1       1       1       1       1	CB         13 A           CB         25 A           CB         25 A           CB         25 A           CB         20 A	2A 2A 2A 2A 2A 2A		CFBACUSTOM FINISH AS SELECTED BY THE ARCHITECTSFBASTANDARD FINISH AS SELECTED BY THE ARCHITECTMODMODIFY STANDARD LIGHT FIXTURE AS INDICATED	<ol> <li>REFER TO ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR LOUVER REQUIREMENTS AS REQUIRED.</li> <li>CONFIRM AVAILABLE MOUNTING DEPTHS OF ALL LIGHT FIXTURES AND COMPARE WITH DEPTHS SHOWN ON SHOP DRAWINGS. BRING ALL POTENTIAL CONFLICT AREAS TO THE</li> </ol>	EMERGÈNCY BATTERY CAPABLE OF PRODUCING 1100 LUMENS OVER 90 MINUTES MINIMUM. A2 2' x 2' RECESSED LED FLAT PANEL; SOLID FRAME AND FROSTED ACRYLIC LENS; SFBA AND SCBA; 0-10V DIMMING; 60,000 HOURS (L70); 5 YEAR WARRANTY.		FTEL-22-ACS-2500L-30K-1C-UNV-LD1	120 V	27	2,500 LUMEN LED; 3000K CCT; 80+ CRI
EH 3 EH 3 EH 3 EH 3 EH 3 EH 3 EH 3	B ELECTRIC HEATER B ELECTRIC HEATER B ELECTRIC HEATER B ELECTRIC HEATER B ELECTRIC HEATER B ELECTRIC HEATER	0 A         8 A         0 VA	120 V         1	6.6 A 3/ 6.6 A 3/ 6.6 A 3/ 6.6 A 3/ 6.6 A 3/ 6.6 A 3/	/4" 1 /4" 1 /4" 1 /4" 1 /4" 1	2         12           2         12           2         12           2         12           2         12           2         12           2         12           2         12	12 12 12 12 12 12 12 12	CB         20 A	2A 2A 2A 2A 2A 2A			J       ATTENTION OF THE ARCHITECT AND ELECTRICAL ENGINEER PRIOR TO RELEASE.         BIDDING REQUIREMENTS         DDENDUM.         ALLOWED	A2E 2' x 2' RECESSED LED FLAT PANEL; HIGH OUT, OUT, OUT, A2E 2' x 2' RECESSED LED FLAT PANEL; SOLID FRAME AND FROSTED ACRYLIC LENS; SFBA AND SCBA; 0-10V DIMMING; 60,000 HOURS (L70); 5 YEAR WARRANTY. PROVIDE WITH EMERCENCY PATTERY CARABLE OF PRODUCING 1000	FOCAL POINT	FTEL-22-ACS-2500L-30K-1C-UNV-LD1-EM	120 V	27	3000K CCT; 80+ CRI 2,500 LUMEN LED; 3000K CCT; 80+ CRI
EH 3 EH 3 EH 3 EH 3 EWH 1	<ul> <li>ELECTRIC HEATER</li> <li>ELECTRIC HEATER</li> <li>ELECTRIC HEATER</li> <li>ELECTRIC WATER</li> <li>HEATER</li> </ul>	0 A         8 A         0 VA           20 A         0 A         0 VA	120 V     1       120 V     1       120 V     1       208 V     1	6.6 A         3/           6.6 A         3/           6.6 A         3/           20.0 A         3/	/4"         1           /4"         1           /4"         1           /4"         1	2     12       2     12       2     12       2     12	12           12           12           10	CB         20 A	2A 2A 2A 2A 2A		<ol> <li>WHEN ONLY ONE PRODUCT IS APPROVED FOR BIDDING, THE P VARIOUS DISTRIBUTORS AND/OR CONTRACTORS.</li> <li>WHEN A CONTRADICTION EXISTS BETWEEN A SPECIFIC MODEL</li> </ol>	RICE FOR THAT ITEM SHALL BE BROKEN OUT SEPARATELY WHEN SUBMITTING PRICING TO NUMBER AND THE DESCRIPTION, THE DESCRIPTION SHALL GOVERN.	A2Ea 2' x 2' RECESSED LED FLAT PANEL; HIGH OUTPUT; SOLID FRAME AND FROSTED ACRYLIC LENS; SFBA AND SCBA; 0-10V DIMMING; 60,000 HOURS (L70); 5 YEAR WARRANTY. PROVIDE WITH EMERGENCY BATTERY CAPABLE OF	FOCAL POINT	FTEL-22-ACS-4000L-30K-1C-UNV-LD1-EM	120 V	45	4,000 LUMEN LED; 3000K CCT; 80+ CRI
EWH 1 EWH 2 EWH 2	ELECTRIC WATER HEATER ELECTRIC WATER HEATER ELECTRIC WATER	20 A         0 A         0 VA           40 A         0 A         0 VA           40 A         0 A         0 VA	208 V         1           208 V         1           208 V         1	20.0 A 3/ 40.0 A 3/ 40.0 A 3/	/4" 1 /4" 1 /4" 1	2     10       2     6       2     6	10 10 10	CB         25 A           CB         50 A           CB         50 A	2A 2A 2A 2A		PRI 1. PRIOR APPROVAL IS REQUIRED BEFORE BIDDING THIS PROJEC 2. PRIOR APPROVALS SHALL BE SUBMITTED TO THE ELECTRICAL APPROVALS RECEIVED AFTER THIS TIME PERIOD SHALL BE RE	DR APPROVAL REQUIREMENTS T. ENGINEER'S OFFICE AT LEAST (8) EIGHT WORKING DAYS BEFORE THE BID. PRIOR ECTED	A3 2' x 4' RECESSED LED BASKET FIXTURE; CURVED OPAL CENTER DIFFUSER; SFBA AND SCBA; 0-10 DIMMING; 80,000 HOURS (L70); 5 YEAR WARRANTY. A3E 2' x 4' RECESSED LED BASKET FIXTURE; CURVED OPAL CENTER DIFFUSER; SFBA AND SCBA; 0-10 DIMMING; 80,000	PHILIPS DAY-BRITE PHILIPS DAY-BRITE	2EVG54LH830-4-D-UNV-DIM 2EVG54LH830-4-D-UNV-DIM-EMLED	120 V 120 V	39.4 39.4	5,400 LUMEN LED; 3000K CCT; 80+ CRI 5,400 LUMEN LED; 3000K CCT;
EWH 2 EWH 2 EWH 2	2 ELECTRIC WATER HEATER 2 ELECTRIC WATER HEATER 2 ELECTRIC WATER	40 A         0 A         0 VA           40 A         0 A         0 VA           40 A         0 A         0 VA	208 V 1 208 V 1 208 V 1	40.0 A 3/ 40.0 A 3/ 40.0 A 3/	/4" 1 /4" 1 /4" 1	2 6 2 6	10 10 10	CB         50 A           CB         50 A           CB         50 A	2A 2A 2A		<ol> <li>PRIOR APPROVALS SHALL BE SIGNED BY A PRINCIPAL OF THE SUBMITTAL AND THAT THE PRODUCTS PROPOSED ARE EQUIVA</li> <li>ITEMS THAT ARE SUBMITTED AND HAVE BEEN APPROVED WILL</li> </ol>	SUBMITTING ORGANIZATION STATING THAT THEY HAVE PREPARED AND/OR REVIEWED THE LENT TO THOSE SPECIFIED. ANY EXCEPTIONS SHALL BE SO NOTED. BE LISTED IN THE ADDENDUM(S). VERBAL APPROVAL <u>WILL NOT</u> BE GIVEN ON ANY ITEM.	HOURS (L70); 5 YEAR WARRANTY. PROVIDE WITH EMERGENCY BATTERY CAPABLE OF PRODUCING 1100 LUMENS OVER 90 MINUTES MINIMUM. D1 4" RECESSED LED DOWNLIGHT WITH TRIM AND FLANGE KIT 54DEG MEDIUM BEAM; CLEAR REFLECTOR; SFBA AND SCB/ 0-10/ DIMMING: 50.00 HOURS (L70): 5 YEAB WARBANTY	CONTECH	R4NC230K12D-C4322M-CLR	120 V	14	80+ CRI 1,400 LUMEN LED; 3000K CCT; 80+ CRI
EWH 2 EWH 2	HEATER 2 ELECTRIC WATER HEATER 2 ELECTRIC WATER HEATER	40 A         0 A         0 VA           40 A         0 A         0 VA	208 V 1 208 V 1	40.0 A 3/	/4" 1 /4" 1	2 6	10	CB         50 A           CB         50 A           CB         50 A	2A 2A 2A		<ul> <li>6. PRIOR APPROVALS SHALL CONSIST OF TWO SETS OF CUT SHE ACCEPTABLE. ALL SPECIFICATION INFORMATION SHALL BE CLE PHOTOMETRIC DATA SHALL BE PROVIDED. PRODUCTS WITHOU</li> </ul>	TO NOTIFE THE SUBMITTING PARTY OF ERRORS IN THE SUBMITTAL. NOTIFICATION OF OF THE ADDENDUM(S) MAY NOT BE GIVEN. ETS DESCRIBING THE PRODUCTS BEING SUBMITTED AS EQUIVALENTS. FAXES ARE <u>NOT</u> ARLY MARKED, WITH NON-APPLICABLE INFORMATION CROSSED OUT. COMPLETE T PHOTOMETRIC DATA <u>WILL NOT</u> BE APPROVED.	D1E 4" RECESSED LED DOWNLIGHT WITH TRIM AND FLANGE KIT 54DEG MEDIUM BEAM; CLEAR REFLECTOR; SFBA AND SCB/ 0-10V DIMMING; 50,00 HOURS (L70); 5 YEAR WARRANTY. PROVIDE WITH EMERGENCY BATTERY CAPABLE OF PRODUCING 700 LUMENS OVER 90 MINUTES MINIMUM.	CONTECH LIGHTING	R4NC230K12D-ER-C4322M-CLR	120 V	14	1,400 LUMEN LED; 3000K CCT; 80+ CRI
EWH 2 EWH 3 EWH 3	2 ELECTRIC WATER HEATER 3 ELECTRIC WATER HEATER 3 ELECTRIC WATER HEATER	40 A         0 A         0 VA           12 A         0 A         0 VA           12 A         0 A         0 VA	208 V     1       208 V     1       208 V     1	40.0 A 3/ 12.0 A 3/ 12.0 A 3/	/4" 1 /4" 1 /4" 1	2     6       2     12       2     12	10 12 12	CB         50 A           CB         20 A           CB         20 A	2A 2A 2A 2A		<ul> <li>7. SUPPLY POINT-BY-POINTS AS REQUIRED BY THE ELECTRICAL E</li> <li>8. SAMPLE FIXTURES MUST BE SUPPLIED WITH A CORD, PLUG AN LIGHTIN</li> </ul>	NGINEER AND/OR LIGHTING DESIGNER. D 120V BALLAST. G SHOP DRAWING REQUIREMENTS	D2       4" RECESSED LED DOWNLIGHT WITH TRIM AND FLANGE KIT         LENSED WALL WASH TRIM; CLEAR REFLECTOR; SFBA AND         SCBA; 0-10V DIMMING; 50,00 HOURS (L70); 5 YEAR         WARRANTY.         D3       7" RECESSED LED DOWNLIGHT WITH TRIM AND FLANGE KIT         55DEG MEDIUM BEAM; COMFORT CLEAR REFLECTOR; SFB/	CONTECH LIGHTING PHILIPS CALCULITE	R4NC230K12D-C4323-CLR C7RN + C6L35830MU + C7RDLNMCC	120 V 120 V	14 36	1,400 LUMEN LED; 3000K CCT; 80+ CRI 3,500 LUMEN LED; 3000K CCT;
FC         1.7           FC         1.2           FC         1.2           FC         1.4           FC         1.4           FC         1.4           FC         1.4           FC         1.4           FC         1.4           FC         1.4	1 FAN COIL 2 FAN COIL 3 FAN COIL 4 FAN COIL 5 FAN COIL 6 FAN COIL	0 A         5 A         0 VA           0 A         5 A         0 VA           0 A         5 A         0 VA           0 A         1 A         0 VA	208 V     1	4.2 A         3/           4.2 A         3/           0.4 A         3/           0.4 A         3/           4.2 A         3/           1.0 A         3/	/4"     1       /4"     1       /4"     1       /4"     1       /4"     1       /4"     1	2     12       2     12       2     12       2     12       2     12       2     12       2     12	12 12 12 12 12 12 12 12 12	CB         20 A           CB         20 A           CB         15 A           CB         15 A           CB         20 A	4A 4A 4A 4A 4A 4A		<ol> <li>REFER TO SPECIFICATIONS 260500, 265100 &amp; 265600 (16001, 165</li> <li>MUST INCLUDE BALLAST AND LAMP CUT SHEETS.</li> <li>LINEAR LIGHTING MUST INCLUDE DETAILED DRAWINGS WITH S LOCATIONS.</li> <li>COLOR SAMPLES MUST BE INCLUDED IN FIRST SUBMITTAL.</li> </ol>	10 & 16551). JPPORT DETAILS, STEM LOCATIONS AND HAVE ALL LENGTHS IDENTIFIED WITH STEM	AND SCBA; 0-10V DIMMING; 60,00 HOURS (L90); 5 YEAR WARRANTY. D3E 7" RECESSED LED DOWNLIGHT WITH TRIM AND FLANGE KIT 55DEG MEDIUM BEAM; COMFORT CLEAR REFLECTOR; SFB/ AND SCBA; 0-10V DIMMING; 60,00 HOURS (L90); 5 YEAR WARRANTY. PROVIDE WITH EMERGENCY BATTERY CAPABLE OF PRODUCING 1000 LUMENS OVER 90 MINUTES	PHILIPS CALCULITE	C7RN + C6L35830MU + C7RDLNMCC + CAEM	120 V	36	80+ CRI 3,500 LUMEN LED; 3000K CCT; 80+ CRI
FC         1.1           FC         1.1           FC         1.8           FC         1.8           FC         1.1           FC         1.1           FC         1.1	7 FAN COIL 8 FAN COIL 9 FAN COIL 10 FAN COIL 10 FAN COIL	0A         1A         0VA           0A         1A         0VA           0A         5A         0VA           0A         1A         0VA	208 V         1	1.0 / X         3/           0.4 A         3/           4.2 A         3/           0.8 A         3/           0.4 A         3/           0.4 A         3/	1           /4"         1           /4"         1           /4"         1           /4"         1           /4"         1           /4"         1           /4"         1	2         12           2         12           2         12           2         12           2         12           2         12           2         12           2         12           2         12	12 12 12 12 12 12 12 12	CB         15 A           CB         20 A           CB         15 A	4A 4A 4A 4A 4A 4A		<ol> <li>CUT SHEETS MUST BE STAMPED WITH THE FACTORY REPRESE</li> <li>VALUE ENGINEERING CONDUCTED WITHOUT THE DESIGN TEAM ALLOWED, REVIEWED OR APPROVED.</li> <li>PROVIDE A LIST OF SPARE PARTS, EQUIPMENT &amp; LAMPS.</li> </ol>	NTATIVE'S COMPANY NAME. I IE; ARCHITECT, OWNER, ENGINEER & LIGHTING CONSULTANT/DESIGNER WILL NOT BE	MINIMUM. F1E 4' LED ELEVATOR PIT LIGHT; SURFACE MOUNT; VAPORTIGHT; SFBA AND SCBA; WET LOCATION LISTED; 0-10V DIMMING; 50,000 HOURS (L70); 5 YEAR WARRANTY. PROVIDE WITH EMERGENCY BATTERY CAPABLE OF PRODUCING 450 LUMENS OVER 90 MINUTES MINIMUM.	COOPER METALUX	VT-LD2-58DR-EL400-120V-L835-CD2-WL	120 V	71	5,800 LUMEN LED; 3500K CCT; 80+ CRI
FC         1.1           FC         1.1           FC         1.1           FC         2.2           FC         2.3           FC         2.4           FC         2.4           FC         2.4           FC         2.4           FC         2.4	11FAN COIL12FAN COIL14FAN COIL2FAN COIL3FAN COIL4FAN COIL5FAN COIL	0 A         1 A         0 VA	208 V         1           208 V         1	0.4 A         3/           0.8 A         3/           0.8 A         3/           1.0 A         3/           0.4 A         3/           0.8 A         3/           0.8 A         3/           0.8 A         3/           0.8 A         3/	/4" 1 /4" 1 /4" 1 /4" 1 /4" 1 /4" 1 /4" 1	2     12       2     12       2     12       2     12       2     12       2     12       2     12       2     12	12 12 12 12 12 12 12 12 12 12	CB         15 A           CB         15 A	4A 4A 4A 4A 4A 4A 4A				L1Es 2" SUSPENDED DIRECT LINEAR LED; ALUMINUM HOUSING AND WHITE PAINTED REFLECTOR; PROVIDE IN LENGTHS AS REQUIRED TO RUN CONTINUOUS PER PLAN; SFBA AND SCBA; 4' ADJUSTABLE AIRCRAFT CABLE AND JUNCTION BO MOUNTING; 0-10V DIMMING; 125,000 HOURS (L70); 5 YEAR WARRANTY. PROVIDE WITH EMERGENCY BATTERY CAPABLE OF PRODUCING 1000 LUMENS OVER 90 MINUTES MINIMUM.	PINNACLE ARCHITECTURAL LIGHTING	EX1-BW-830HO-##-AC48JB-U-OL1-1-BS	120 V	9.3 W/FT	604 LUMEN/FT LED; 3500K CCT; 80+ CRI
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	HEATER PUMP       HEATER PUMP       HEATER PUMP       HEATER PUMP       HR BOXES       HR BOXES       HR BOXES       HR BOXES       HR BOXES	0 A         1 A         0 VA           0 A         114 A         0 VA           0 A         58 A         0 VA           0 A         1 A         0 VA	208 V         3           208 V         3           208 V         3           208 V         1           208 V         1           208 V         1           208 V         1           208 V         1	0.8 A 3/ 0.8 A 3/ 0.8 A 3/ 0.8 A 3/ 0.8 A 3/ 0.8 A 3/ 0.8 A 3/	1/4"         1           /4"         1           /4"         1           /4"         1           /4"         1           /4"         1           /4"         1           /4"         1           /4"         1	2     12       3     1/0       3     4       2     12       2     12       2     12       2     12       2     12	6           8           12           12           12           12           12           12           12	CB         150 A           CB         150 A           CB         70 A           CB         15 A	7A 7A 4A 4A 4A 4A				L1EW 2" DIRECT LINEAR LED; ALUMINUM HOUSING AND WHITE PAINTED REFLECTOR; PROVIDE IN LENGTHS AS REQUIRED TO RUN CONTINUOUS PER PLAN; SFBA AND SCBA; WALL MOUNT; 0-10V DIMMING; 125,000 HOURS (L70); 5 YEAR WARRANTY. PROVIDE WITH EMERGENCY BATTERY CAPABLE OF PRODUCING 1000 LUMENS OVER 90 MINUTES MINIMUM.	PINNACLE ARCHITECTURAL LIGHTING	EX1-WHE-830HO-##-WA-U-OL1-1-BS	120 V	9.3 W/FT	676 LUMEN/FT LED; 3500K CCT; 80+ CRI
HR 1.9 HR 2.7 HR 2.7 MUA 1	5 HR BOXES 1 HR BOXES 2 HR BOXES MAKE UP AIR UNIT SCHEDULE	0 A         1 A         0 VA	208 V         1           208 V         1           208 V         1           208 V         3           120 V         1	0.8 A         3/           0.8 A         3/           0.8 A         3/           10.6 A         3/           9.8 A         3/	/4" 1 /4" 1 /4" 1 /4" 1 /4" 1	2     12       2     12       2     12       3     12       2     12	12           12           12           12           12           12           12	CB         15 A           CB         15 A           CB         15 A           CB         20 A	4A 4A 4A 9B				L1s 2" SUSPENDED DIRECT LINEAR LED; ALUMINUM HOUSING AND WHITE PAINTED REFLECTOR; PROVIDE IN LENGTHS AS REQUIRED TO RUN CONTINUOUS PER PLAN; SFBA AND SCBA; 4' ADJUSTABLE AIRCRAFT CABLE AND JUNCTION BO MOUNTING; 0-10V DIMMING; 125,000 HOURS (L70); 5 YEAR WARRANTY.	PINNACLE ARCHITECTURAL LIGHTING	EX1-BW-830HO-##-AC48JB-U-OL1-1-0	120 V	9.3 W/FT	604 LUMEN/FT LED; 3500K CCT; 80+ CRI
- UH 1 - NOT 1. NOT	ES: ION-FUSED DISCONNECT	0.50 SWITCH	120 V 1	A. FURNISHED, B. FURNISHED A	INSTALLED	AND CONNECT		CB 20 A CB 20 A	6).				L IW       2" DIRECT LINEAR LED; ALUMINUM HOUSING AND WHITE PAINTED REFLECTOR; PROVIDE IN LENGTHS AS REQUIRED TO RUN CONTINUOUS PER PLAN; SFBA AND SCBA; WALL MOUNT; 0-10V DIMMING; 125,000 HOURS (L70); 5 YEAR WARRANTY.         OD1       4" RECESSEDLENSED LED DOWNLIGHT WITH TRIM AND	CONTECH	R4NC230K12D-C4327-CLR-CLR	120 V 120 V	9.3 W/F I	1,400 LUMEN LED;
- 3. Bi 4. M 5. M 6. M 7. M 7. M 9. V	AREAKER IN ENCLOSURE MANUAL STARTER W/THEF MAGNETIC STARTER MAGNETIC STARTER/NON- MAGNETIC STARTER/FUSE MAGNETIC STARTER/BREA MARIABLE FREQUENCY DR	MAL OVERLOAD USED DISCONNECT COMBINA D DISCONNECT COMBINATION KER COMBINATION VE	ΓΙΟΝ	CONNECTION U C. FURNISHED U CONNECTED U D. FURNISHED, CB = CIRCUIT B CKW = CHILLER	NDER DIVIS UNDER ANC NDER DIVIS INSTALLED REAKER - T	SION 26(16). DTHER DIVISION ON 26(16). AND CONNECT HERMAL MAGN	BUT INSTAL ED UNDER # ETIC	LLED AND	'ISION.				FLANGE KIT; CLEAR REFLECTOR AND CLEAR LOWER CONE SFBA AND SCBA; WET LOCATION LISTED; 0-10V DIMMING; 50,00 HOURS (L70); 5 YEAR WARRANTY. OD1E 4" RECESSEDLENSED LED DOWNLIGHT WITH TRIM AND FLANGE KIT; CLEAR REFLECTOR AND CLEAR LOWER CONE SFBA AND SCBA; WET LOCATION LISTED; 0-10V DIMMING; 50,00 HOURS (L70); 5 YEAR WARRANTY. PROVIDE WITH EMERGENCY BATTERY CAPABLE OF PRODUCING 700	LIGHTING CONTECH LIGHTING	R4NC230K12D-ER-C4327-CLR-CLR	120 V	14	3000K CCT; 80+ CRI 1,400 LUMEN LED; 3000K CCT; 80+ CRI
10. R 11. D 12. R 13. T 14. S	REDUCED VOLTAGE STAR DIRECT CONNECTION RECEPTACLE/SPECIAL PU IWO-SPEED STARTER, CO SOLID STATE SOFT START	TER RPOSE OUTLET/ETC. ORDINATE W/MOTOR TYPE ER		NOTE 1: PER 25 LARGER THAN F	50.122(A), E0 PHASE CON	QUIPMENT GRC DUCTOR.	UND IS NOT	REQUIRED T	OBE				LUMENS OVER 90 MINUTES MINIMUM.         P1       DECORATIVE PENDANT; ANTIQUE BRONZE FINISH; INTEGRAL TRANSFORMER TO 12V. MLV OR ELV DIMMABLE PER TRANSFORMER.         P2       DECORATIVE PENDANT; 360DEG LED EDGE-LIT ALUMINIUM DANELS WITH SILICA CEL DIEFLISERS; AD ILISTABLE DINCS	TECH LIGHTING	600MCRGS-FJ-Z-LED930 PD-61728-BK	120 V	8	310 LUMEN LED; 3000K CCT; 90+ CRI 3,328 LUMEN LED; 2000K CCT;
- <u>LEG</u>	END:	ACCESS	S CON	TROLS	SCHE	EDULE							PANELS WITH SILICA GEL DIFFUSERS, ADJUSTABLE RINGS FOR CUSTOMIZABLE FORM; 28" DIAMETER; BLACK FINSIH; 0-10V DIMMING; 84,000 HOURS. P3 DECORATIVE PENDANT; 360DEG LED EDGE-LIT ALUMINIUM PANELS WITH SILICA GEL DIFFUSERS; ADJUSTABLE RINGS FOR CUSTOMIZABLE FORM; 38" DIAMETER; BLACK FINSIH;	MODERN FORMS	PD-61738-BK	120 V	202	4,374 LUMEN LED; 3000K CCT; 80+ CRI
EL = E ES = E ECB = TYPE DIA(	ELECTRIC LOCK ELECTRIC STRIKE = ELECTRIC CRASH BAR GRAM DESCRIPTIC Y246 DOUBLE DOOR	REX = REQUEST TO EXIT FA = FIRE ALARM PTE = PUSH TO ENTER (ACTUA' N EL ES ECB MAG D ADA 1 -	rora) I PS REX PT 2 Yes 2	EH = ELECTRIC HIN IAG = MAGNETIC LO IPS = DOOR POSITIC E EH FA REL	IGE ICK DN SWITCH IEASE	OPERATOR. CR	AND ACTUA	NOTES	ON PEDESTA				0-10V DIMMING; 84,000 HOURS. S1Es 4' SUSPENDED LED STRIP; SYMMETRIC REFLECTOR; DROP LENS DIFFUSER; SFBA AND SCBA; 0-10V DIMMING; 100,000 HOURS (L70); 5 YEAR WARRANTY. PROVIDE WITH CHAIN HANGER SET. PROVIDE WITH EMERGENCY BATTERY CAPABLE OF PRODUCING 1100 LUMENS OVER 90 MINUTES	PHILIPS DAY-BRITE	FSS440L830-UNV-DIM-EMLED + FKR-136	120 V	31	4,000 LUMEN LED; 3000K CCT; 80+ CRI
- B EY	Y009 SINGLE DOOR, Y002 SINGLE DOO	ADA - 1 R 1	1 Yes 2 1 Yes -	- Ye	ELEC ES AUT ACT ES VER	CTRIC STRIKE PO OMATIC OPERAT UATORS. IFY WITH OWNE	WERED BY F OR. B) KEYS'	POWER TRAN WITCH ENABL	SFORMER ON ES/DISABLES REQUIRES RO	Board Both Dugh-In			MINIMUM. S1s 4' SUSPENDED LED STRIP; SYMMETRIC REFLECTOR; DROP LENS DIFFUSER; SFBA AND SCBA; 0-10V DIMMING; 100,000 HOURS (L70); 5 YEAR WARRANTY. PROVIDE WITH CHAIN HANGER SET. S2s 2' SUSPENDED LED STRIP: SYMMETRIC REFLECTOR: DROP	PHILIPS DAY-BRITE	FSS440L830-UNV-DIM + FKR-136	120 V	31	4,000 LUMEN LED; 3000K CCT; 80+ CRI
- -		TYPE FB1 FU		FLOOR BOX ASS	FLO	OR BC	X SC MFGR. LEGRAND		JLE TALOG NUME BFBFF-OG	BER			325       2 SUSPENDED LED STRIP; SYMMETRIC REFLECTOR; DROP         LENS DIFFUSER; SFBA AND SCBA; 0-10V DIMMING; 100,000         HOURS (L70); 5 YEAR WARRANTY.         PROVIDE WITH CHAIN         HANGER SET.         W1       NARROW PROFILE WRAP RESTROOM VANITY FIXTURE;         STEEL HOUSING AND ACRYLIC LENS; WALL MOUNTED; SFB	PRUDENTIAL LIGHTING	HSS-LED3-MO-3-SAL-YGW-SC-UNV-SUR-D M10	) 120 V	16.5	2,000 LOWEN LED; 3000K CCT; 80+ CRI 1,875 LUMEN LED; 3000K CCT;
• • •		FB2 P	AMOUNT OF H REFER 4-GANG MULTI ROVIDE (1) LOV OWER GANGS	VUER STYLE, RE DME-RUNS AND C TO A/V DRAWING USE FLOOR BOX V VOLTAGE GANG VITH DUPLEX REC OVER COORDING	AT-6 CABLE S FOR A/V N WITH POWE WITH (3) DA CEPTACLES	REQUIRED. EEDS. R AND DATA. ATA DROPS, (2) AND (1) EMPTY CHITECT FOP	LEGRAND	E	FB45S-EFB8-N	ИВ			AND SCBA; 0-10V DIMMING; 150,000 HOURS (L70); 5 YEAR         WARRANTY.         X1       UNIVERSAL, EDGE-LIT, LED EXIT SIGN; BRUSHED ALUMINIU         HOUSING; CLEAR ACRYLIC PANEL WITH GREEN LETTERING         ON MIRROR FACE; SFBA AND SCBA; UNIVERSAL MOUNTING         UNIVERSAL DIRECTIONAL CHEVRONS; SINGLE OR DUAL         FACE DER DI ANI-NICKEL CADMULAR PATTERY WITH	LITHONIA	EDG # GMR EL SD	120 V	3	LED
		PT1 6" F	RECESSED PRE POWER AND DA ATEGORY CAB	SURFACE ST SURFACE SURFACE M WIRE SURFACE M TA. REFER TO DR LES NEEDED PER	MULTIUSE PO AWINGS FO	OKE-THRU WITH R NUMBER OF CATED ON THE	LEGRAND		6ATC2P-6DEC	2			SELF-DIAGNOSTICS.	<u> </u>				

S A

5		





R S

Ε

D

С

1





5

	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	SHEET KEYNOTES
	P4	REPLACE EXISTING PANEL IN THE STORAGE BUILDING WITH NEW 120/208V PANEL. THE ELECTRICAL CONTRACTOR IS RESPONSIBLE TO PROTECT ANY WIRING AND RACEWAY THAT WILL REMAIN OR BE RELOCATED DURING CONSTRUCTION AND WILL BE RESPONSIBLE TO REPLACE IF IT BECOMES DAMAGED WITHOUT ADDITIONAL COST TO THE OWNER. ENSURE CIRCUIT CONTINUITY FOR OTHER DEVICES OR EQUIPMENT ON THE SAME BRANCH CIRCUIT.
Z	P5	PROVIDE (2) 2" STUB UP CONDUIT FROM MAIN SERVICE IN EQUESTRIAN CENTER TO THIS LOCATION FOR FUTURE USE. COORDINATE EXACT LOCATION OF STUB UPS WITH ARCHITECT PRIOR TO ROUGH-IN. CAP AND MARK ALL CONDUITS WITH A 6" ROUND BOX.
	P6	RE-FEED SERVICE PANEL IN STABLE FROM NEW MAIN SERVICE IN EQUESTRIAN CENTER. PROVIDE A STEP-UP TRANSFORMER AS NEEDED TO STEP UP THE VOLTAGE FROM 208V TO 240V FOR EXISTING DISTRIBUTION. DEMOLISH ALL RELATED EQUIPMENT WITH PREVIOUS SERVICE INTO STABLE BUILDING INCLUDING BUT NOT LIMITED TO ALL RELATED CONDUCTORS, RACEWAY, JUNCTION AND SPLICE BOXES UP TO THE PANELBOARD/SWITCHBOARD.
χ	P7	EXISTING UTILITY GROUND SLEEVE TO BE RELOCATED. COORDINATE WITH UTILITY FOR EXACT LOCATION.
	P8	LOCATION OF NEW 120/208V 3-PHASE SERVICE TRANSFORMER. COORDINATE WITH ROCKY MOUNTAIN POWER FOR EXACT LOCATION OF PAD TO INTERCEPT THE EXISTING TRENCHING AND COORDINATE WITH UTILITY TO PROVIDE MINIMUM DOWNTIME OF OTHER BUILDINGS AT THE TIME OF THE RELOCATION OF THE TRANSFORMER. ELECTRICAL CONTRACTOR IS RESPONSIBLE TO PROVIDE PAD FOR NEW SERVICE TRANSFORMER. REFER TO DETAIL INDICATED ON THE DRAWINGS.
<u>}</u>	P20	NEW CT ENCLOSURE WITH UTILITY METER FOR EQUESTRIAN ADDITION. PROVIDE A NEMA 3R ENCLOSURE FOR CT METER. REFER TO ONELINE ON SHEET E501 FOR ADDITIONAL INFORMATION
K	P21	EXISTING 240V SINGLE PHASE TRANSFORMER TO BE DEMOLISHED. COORDINATE WITH UTILITY AND REMOVE ALL CONDUIT TO THIS LOCATION.
Ъ	P22	NEW SERVICE SWITCHBOARD IN EQUESTRIAN CENTER EXPANSION.
X	P23	PROVIDE 3" CONDUIT TO BACK FEED EXISTING PANEL IN STORAGE BUILDING. REFER TO ONE-LINE ON SHEET E501 FOR ADDITIONAL INFORMATION ON WIRE SIZE.
Z	P24	FIELD COORDINATE SIZE OF PANEL IN STABLE THAT NEEDS TO BE BACKFED AND PROVIDE NECESSARY CONDUIT FROM EQUESTRIAN CENTER TO EXISTING ELECTRICAL ROOM. REFER TO ONE-LINE IN SHEET E501 FOR ADDITIONAL INFORMATION.
ξ	P25	DATA RACK IN ELELCTRICAL ROOM. REFER TO SHEET E301 FOR ADDITIONAL INFORMATION ON DEMARCATION LOCATION.
$\left\{ \right\}$	P26	PROVIDE 2" CONDUIT TO FEED EXISTING 100A PANEL IN THE CYCLING CENTER. REFER TO ONE-LINE ON SHEET E501 FOR ADDITIONAL INFORMATION ON WIRE SIZE.
	T10	PROVIDE (1) 4" CONDUIT FOR FIBER FEED INTO THE BUILDING. RUN CONDUIT FROM ALLWEST PEDESTAL BOX TO DEMARCATION POINT INSIDE THE EQUESTRIAN CENTER BUILDING. COORDINATE WITH UTILITY FOR EXACT SIZE OF CONDUIT FOR SERVICE PRIOR TO ROUGH-IN.
7	T11	PROVIDE (1) 4" CONDUIT BETWEEN EXISTING PEDESTAL TO EXISTING DEMARCATION

	1
120/208V PANEL. THE RING AND RACEWAY	R
ND WILL BE DDITIONAL COST TO OR EQUIPMENT ON	
TRIAN CENTER TO N OF STUB UPS WITH	
EQUESTRIAN P UP THE VOLTAGE	B
NOT LIMITED TO ALL S UP TO THE	ß
ATE WITH UTILITY FOR	R
OORDINATE WITH ERCEPT THE EXISTING M DOWNTIME OF	
NSFORMER. R NEW SERVICE	Ŗ
ITION. PROVIDE A EET E501 FOR	B
D. COORDINATE WITH	R
N.	K
E BUILDING. REFER TO E SIZE.	R
BACKFED AND EXISTING ELECTRICAL RMATION.	Ř
DDITIONAL	K
ING CENTER. REFER WIRE SIZE.	ß
N CONDUIT FROM QUESTRIAN CENTER JIT FOR SERVICE	
	V





635 South State Street Salt Lake City, Utah 84111

P:801.532.2196 F:801.532.2305

www.bnaconsulting.com

© 2018 BNA CONSULTING

1 06/25/18 Addendum 1

Revision

# Date

# X A

\_\_\_\_\_

\_\_\_\_\_

\_ \_

 $\sum 1$ 

(A)



• TLL1-3 RC3-1

<sup>3</sup> 4 **● ○** <sup>1LL1-3</sup> RC3-1

1





5

(	GENERAL NOTES
) ב ( (	1. PROVIDE UNSWITCHED HOT TO ALL EMERGENCY LIGHTS AND LIGHT FIXTURES WITH BATTERY PACKS FOR EMERGENCY POWER.
(	SHEET KEYNOTES
(	L2 COORDINATE LOCATOIN OF ELEVATOR PIT FIXTURES WITH ELEVATOR SHOP DRAWINGS FOR PROPER ILLUMINATION OF THE PIT. LOCATION OF SWITCH AT ACCESS DOOR.









A

\_\_\_\_\_

Е

D

\_\_\_\_C

В

2

1



4

5

6

Ĩ	$\sim \sim \sim$	GENERAL NOTES				
S S S	1. P B	ROVIDE UNSWITCHED HOT TO ALL EMERGENCY LIGHTS AND LIGHT FIXTURES WITH ATTERY PACKS FOR EMERGENCY POWER.				
$\left\{ \right\}$	SHEET KEYNOTES					
	L1	FIXTURE LAYOUT FOR REFERENCE ONLY. ADJUST LOCATION TO PROVIDE EVEN ILLUMINATION AND TO AVOID OBSTRUCTION OF ILLUMINATION BY PIPES, DUCTS, EQUIPMENT, ETC. SUSPEND FISTURES ON CHAINS OR SURFACE MOUNT TO UNISTRUT AS REQUIRED.				







1

Jun 'MDP' FIRE RISE ELECTRICAL 128 ₩ 1LP1 1LP1-4 TABLE STORAG 125 H⇔1LP1 \_\_\_\_\_

\_\_\_\_\_







AND	2
₩ <mark>₽₩</mark> RER	مر
JRER	
KACT	2
REFER I WITH	
-	R
Y )	
H-IN.	K
E TO	
SH	K
0	
	r'



CONSTRUCTION DOCUMENTS NEXUS PROJ. #: 17179 CHECKED BY: AL DRAWN BY: BHH DATE: 04/14/18 LEVEL 01 POWER PLAN

E

\_\_\_\_D

С

1



		SHEET KEYNOTES
	P1	COORDINATE EXACT LOCATION OF INDICATED DEVICES WITH WITH ARCHITECT AND FURNITURE SHOP DRAWINGS PRIOR TO ROUGH-IN.
	P3	PROVIDE POWER CONNECTION TO AUTOMATIC PAPER TOWEL DISPENSER. CONFIRM FINAL LOCATION WITH ARCHITECT AND ALL REQUIREMENTS WITH MANUFACTURER PRIME FOR THE DEFINITION OF THE PARTY OF THE PART
$\Delta^{\mathcal{L}}$	P10	PROVIDE GFCI RECEPTACLE FOR GARBAGE DISPOSAL.

6





Architectural NEXUS, Inc. 2505 East Parleys Way Salt Lake City, Utah 84109 T 801.924.5000 http://www.archnexus.com

Original drawings remain the property of the Architect and as such the Architect retains total ownership and control. The design represented by these drawings is sold to the client for a one time use, unless otherwise agreed upon in writing by the Architect. © Architectural Nexus, Inc. 2014

BRIAN HICKS 🖌



CONSTRUCTION DOCUMENTS NEXUS PROJ. #: 17179 CHECKED BY: AL DRAWN BY: BHH DATE: 04/14/18 LEVEL 02 POWER PLAN

E

D





1

EXISTING ARENA

2



5



CONSTRUCTION DOCUMENTS NEXUS PROJ. #: 17179 CHECKED BY: Checker DRAWN BY: Author DATE: 04/14/18



E

\_\_\_\_D

\_\_\_\_C

В



 $\Lambda$ 

1LM1-33,35

207 1LM1-33,35

CONFERENCE ROOM

OPEN OFFICE

Man Martin

EF 1LM1-14 1LM1-31 1LM1-31 203

· /

EWH 1LM1-50,52

1LM1-33,35 1LM1-33,35 TLM1-33,35 TLM1-3

RESTROOM

**CHECK-IN**106

1LM1-33,35

208

/ FC

 $\left( \begin{array}{c} FC \\ 2.4 \end{array} \right)$ 

1LM1-8,10

EH

1LM1-54,56 EWH 2

BREAK 🕒 202

ELEV. 131

**STAIR**143

(G)(H)

(2)

RESTROOM 205

Ļ

(F)

201

VËSTIBULE 206A

-√-

1LM1-33,35

 $\frac{1}{2.1}$ 

**- 1** 

5 6



CONSTRUCTION DOCUMENTS NEXUS PROJ. #: 17179 CHECKED BY: Checker DRAWN BY: Author DATE: 04/14/18





E

D

С



<ol> <li>PROVIDE RACEWAY, CONDUIT, AND WIRING FOF</li> <li>PROVIDE CONCEALED 3/4" C TYPICAL FOR LINES COORDINATE ALL JUNCTION BOX ROUGH-IN LOC SYSTEM CONTROL SYSTEM SUPPLIER PRIOR TO</li> <li>DIVISION &amp; AND DIVISION 28 CONTRACTORS SHA CONTRACTORS TO OUTLINE POWER AND WIRIN LOCATION.</li> <li>ALL CABLING TO DEVICES THAT ARE INSTALLED BE ROUTED THROUGH THE MULLIONS. COORDIN SYSTEM INSTALLER PRIOR TO ANY ROUGH-IN.</li> <li>ELECTRONIC LOCKING HARDWARE (MAG LOCKS BY DIV 8. REVIEW DOOR HARDWARE SCHEDULE VOLTAGES AND OPERATIONAL FUNCTIONALITY V OUTAGES AND OPERATIONAL FUNCTIONALITY V OUTAGES CONTROL SYSTEM SHALL INCLUDE ANY REQUIREMENTS</li> <li>ACCESS CONTROL SYSTEM SHALL INCLUDE ANY AUXILIARY DEVICES OR INPUT/OUTPUT MODULE INDICATED FOR COMPLETE AND FUNCTIONING \$</li> <li>REQUEST TO EXIT AND DOOR CONTACT INDICAT FOR OPEN CIRCUIT OR SHORT CIRCUIT FAULTS ACCESS CONTROLLER.</li> <li>PROVIDE 120V EMERGENCY CIRCUIT TO ALL FIR DEVICES PER CIRCUIT TO SHALL NOT EXCEED E AND RELAYS AS NECESSARY FOR ALL FIRE/SMOD DRAWINGS. ALL FIRE/SMOKE DAMPERS SHALL PROVIDE DUCT DETECTOR WITHIN 5'-0" OF EACH DIAGRAM D012 IN SHEET E701 FOR ADDITIONAL</li> <li>F1 PROVIDE MONITOR MODULE FOR ALL TAMPE DRAWINGS PRIOR TO ROUGH-IN. REFER TO D INFORMATION.</li> <li>F2 PROVIDE TWO-WAY COMMUNICATION SYSTEM SYSTEM. PROVIDE A 120V DEDICATED CIRCU AT THIS LOCATE WONITOR MODULE FOR EXACT LOCATION OUTSIDE OF THE BUILDING PRIOR TO ROUGH-IN. F3 SYSTEM. PROVIDE A 120V DEDICATED CIRCU AT THIS LOCATION. COORDINATE EXACT LOCATION PROVIDE TWO-WAY COMMUNICATIONS SYST SYSTEM. PROVIDE A 120V DEDICATED CIRCU AT THIS LOCATION. COORDINATE EXACT LOCATION PROVIDE TWO-WAY COMMUNICATIONS SYST SYSTEM. PROVIDE MONITOR MODULE FOR EACH TAMME LEVEL FOR MONITOR MOTION THE FIRE SPRINKLER CONTRACTOR TO VERIFY ALL ELECTRICAL NO</li> </ol>	OTES				
<ol> <li>PROVIDE CONCEALED 3/4" C TYPICAL FOR LINES COORDINATE ALL JUNCTION BOX ROUGH-IN LOC SYSTEM CONTROL SYSTEM SUPPLIER PRIOR TO</li> <li>DIVISION 8 AND DIVISION 28 CONTRACTORS SHA CONTRACTORS TO OUTLINE POWER AND WIRIN LOCATION.</li> <li>ALL CABLING TO DEVICES THAT ARE INSTALLED BE ROUTED THROUGH THE MULLIONS. COORDIN SYSTEM INSTALLER PRIOR TO ANY ROUGH-IN.</li> <li>ELECTRONIC LOCKING HARDWARE (MAG LOCKS BY DIV 8. REVIEW DOOR HARDWARE SCHEDULE VOLTAGES AND OPERATIONAL FUNCTIONALITY V</li> <li>POWER SUPPLIES FOR ELECTRONIC LOCKS AND BY DIVISION 28 CONTRACTOR. COORDINATE WIT REQUIREMENTS</li> <li>ACCESS CONTROL SYSTEM SHALL INCLUDE ANN AUXILIARY DEVICES OR INPUT/OUTPUT MODULE INDICATED FOR COMPLETE AND FUNCTIONING S</li> <li>REQUEST TO EXIT AND DOOR CONTACT INDICAT FOR OPEN CIRCUIT OR SHORT CIRCUIT FAULTS ACCESS CONTROLLER.</li> <li>PROVIDE 120V EMERGENCY CIRCUIT TO ALL FIR DEVICES PER CIRCUIT TO SHALL NOT EXCEED E AND RELAYS AS NECESSARY FOR ALL FIRE/SMO DRAWINGS. ALL FIRE/SMOKE DAMPERS SHALL HPROVIDE DUCT DETECTOR WITHIN 5'-0" OF EACT DIAGRAM D012 IN SHEET E701 FOR ADDITIONAL</li> <li>F1 PROVIDE MONITOR MODULE FOR ALL FIRE SMO DRAWINGS. LOCATE EXACT LOCATION OF SH DRAWINGS. DOCATE EXACT LOCATION OF SH DRAWINGS. PRIOR TO ROUGH-IN. REFER TO D INFORMATION.</li> <li>F12 PROVIDE MONITOR MODULE FOR ALL TAMPE F1 PROVIDE WONTOR MODULE FOR ALL TAMPE F1 PROVIDE WONTOR MODULE FOR EXACT LOCATION OF SH DRAWINGS. PROVIDE A 120V DEDICATED CIRCU TO BELL.</li> <li>F13 PROVIDE TWO-WAY COMMUNICATIONS SYST SYSTEM. PROVIDE A 120V DEDICATED CIRCU AT THIS LOCATION. COORDINATE EXACT LOC ROUGH-IN.</li> <li>F2 PROVIDE MONITOR MODULE FOR EACH TAMME LEVEL FOR MONITOR MODULE FOR EACH TAMFE PROVIDE WONTROR TO RUBURCATIONS SYST SYSTEM. PROVIDE A 120V DEDICATED CIRCU AT THIS LOCATION. COORDINATE EXACT LOC</li> </ol>	R SECURITY DEVICES INDICATED.				
<ul> <li>DIVISION &amp; AND DIVISION 2&amp; CONTRACTORS SHACONTRACTORS TO OUTLINE POWER AND WIRIN LOCATION.</li> <li>ALL CABLING TO DEVICES THAT ARE INSTALLED BE ROUTED THROUGH THE MULLIONS. COORDIN SYSTEM INSTALLER PRIOR TO ANY ROUGH-IN.</li> <li>ELECTRONIC LOCKING HARDWARE (MAG LOCKS BY DIV &amp; REVIEW DOOR HARDWARE SCHEDULE VOLTAGES AND OPERATIONAL FUNCTIONALITY (O)</li> <li>POWER SUPPLIES FOR ELECTRONIC LOCKS AND BY DIVISION 2&amp; CONTRACTOR. COORDINATE WIT REQUIREMENTS</li> <li>ACCESS CONTROL SYSTEM SHALL INCLUDE ANY AUXILIARY DEVICES OR INPUT/OUTPUT MODULE INDICATED FOR COMPLETE AND FUNCTIONING \$</li> <li>REQUEST TO EXIT AND DOOR CONTACT INDICAT FOR OPEN CIRCUIT OR SHORT CIRCUIT FAULTS ACCESS CONTROLLER.</li> <li>PROVIDE 120V EMERGENCY CIRCUIT TO ALL FIR DEVICES PER CIRCUIT TO SHALL NOT EXCEEDE AND RELAYS AS NECESSARY FOR ALL FIRE/SMOM DRAWINGS. ALL FIRE/SMOME DAMPERS SHALL H PROVIDE DUCT DETECTOR WITHIN 5-0" OF EACH DIAGRAM D012 IN SHEET E701 FOR ADDITIONAL</li> <li>F1 PROVIDE MONITOR MODULE FOR ALL TAMPE DRAWINGS. ACLE EXACT LOCATION OF SHORY OUTSIDE OF THE BUILDING PRIOR TO ROUGH-IN. REFER TO DINFORMATION.</li> <li>F2 PROVIDE TWO-WAY COMMUNICATIONS SYSTEM</li> <li>F3 PROVIDE TWO-WAY COMMUNICATIONS SYSTEM</li> <li>F4 PROVIDE MONITOR MODULE FOR EACT LOCATION</li> </ul>	S SHOWN TO SECURITY DEVICES. CATIONS WITH THE OWNER AND ACCESS D ANY ROUGH-IN.				
<ul> <li>ALL CABLING TO DEVICES THAT ARE INSTALLED BE ROUTED THROUGH THE MULLIONS. COORDIN SYSTEM INSTALLER PRIOR TO ANY ROUGH-IN.</li> <li>ELECTRONIC LOCKING HARDWARE (MAG LOCKS BY DIV 8. REVIEW DOOR HARDWARE SCHEDULE VOLTAGES AND OPERATIONAL FUNCTIONALITY</li> <li>POWER SUPPLIES FOR ELECTRONIC LOCKS AND BY DIVISION 28 CONTRACTOR. COORDINATE WIT REQUIREMENTS</li> <li>ACCESS CONTROL SYSTEM SHALL INCLUDE ANY AUXILIARY DEVICES OR INPUT/OUTPUT MODULE INDICATED FOR COMPLETE AND FUNCTIONING S</li> <li>REQUEST TO EXIT AND DOOR CONTACT INDICAT FOR OPEN CIRCUIT OR SHORT CIRCUIT FAULTS ACCESS CONTROLLER.</li> <li>PROVIDE 120V EMERGENCY CIRCUIT TO ALL FIR DEVICES PER CIRCUIT TO SHALL NOT EXCEEDE AND RELAYS AS NECESSARY FOR ALL FIRE/SMOK DRAWINGS. ALL FIRE/SMOKE DAMPERS SHALL H PROVIDE DUCT DETECTOR WITHIN 5-0" OF EACH DIAGRAM D012 IN SHEET E701 FOR ADDITIONAL</li> <li><b>SHEEET KEET</b></li> <li>PROVIDE MONITOR MODULE FOR ALL TAMPE DRAWINGS. LOCATE EXACT LOCATION OF SH DRAWINGS DOR TO ROUGH-IN. REFER TO D INFORMATION.</li> <li>F1</li> <li>PROVIDE SPRINKLER BELL WITH CONTROL MODU SPRINKLER CONTRACTOR FOR EXACT LOCAT OUTSIDE OF THE BUILDING PRIOR TO ROUGH TO BELL.</li> <li>PROVIDE TWO-WAY COMMUNICATIONS SYST SYSTEM. PROVIDE A 120V DEDICATED CIRCU AT THIS LOCATION. COORDINATE EXACT LOCA ROUGH-IN.</li> <li>F3</li> <li>PROVIDE MONITOR MODULE FOR EACH TAMPE CONTRACTOR TO VERIFY ALL ELECTRICAL N</li> </ul>	ALL COORDINATE WITH ELECTRICAL IG FOR DEVICES AND EXACT DEVICE				
<ul> <li>5. ELECTRONIC LOCKING HARDWARE (MAG LOCKS BY DIV 8. REVIEW DOOR HARDWARE SCHEDULE VOLTAGES AND OPERATIONAL FUNCTIONALITY</li> <li>6. POWER SUPPLIES FOR ELECTRONIC LOCKS ANE BY DIVISION 28 CONTRACTOR. COORDINATE WIT REQUIREMENTS</li> <li>7. ACCESS CONTROL SYSTEM SHALL INCLUDE ANY AUXILIARY DEVICES OR INPUT/OUTPUT MODULE INDICATED FOR COMPLETE AND FUNCTIONING \$</li> <li>8. REQUEST TO EXIT AND DOOR CONTACT INDICAT FOR OPEN CIRCUIT OR SHORT CIRCUIT FAULTS ACCESS CONTROLLER.</li> <li>9. PROVIDE 120V EMERGENCY CIRCUIT TO ALL FIR DEVICES PER CIRCUIT TO SHALL NOT EXCEED E AND RELAYS AS NECESSARY FOR ALL FIRE/SMOK DRAWINGS. ALL FIRE/SMOKE DAMPERS SHALL H PROVIDE DUCT DETECTOR WITHIN 5'-0" OF EACH DIAGRAM D012 IN SHEET E701 FOR ADDITIONAL EXCEPTION FOR ADDITIONAL INFORMATION.</li> <li>F1 PROVIDE MONITOR MODULE FOR ALL TAMPE DRAWINGS PRIOR TO ROUGH-IN. REFER TO D INFORMATION.</li> <li>F2 PROVIDE TWO-WAY COMMUNICATIONS SYST SYSTEM. PROVIDE A 120V DEDICATED CIRCU AT THIS LOCATION. COORDINATE EXACT LOCA OUTSIDE OF THE BUILDING PRIOR TO ROUGH-IN.</li> <li>F3 PROVIDE TWO-WAY COMMUNICATIONS SYST SYSTEM. PROVIDE A 120V DEDICATED CIRCU AT THIS LOCATION. COORDINATE EXACT LOCA ROUGH-IN.</li> <li>F4 LEVEL FOR MONITOR MODULE FOR EACH TAMPE CONTRACTOR TO VERIFY ALL ELECTRICAL N</li> </ul>	WITHIN DOOR OR ON MULLIONS SHALL NATE INSTALLATION WITH THE WINDOW				
<ul> <li>6. POWER SUPPLIES FOR ELECTRONIC LOCKS AND BY DIVISION 28 CONTRACTOR. COORDINATE WIT REQUIREMENTS</li> <li>7. ACCESS CONTROL SYSTEM SHALL INCLUDE ANY AUXILIARY DEVICES OR INPUT/OUTPUT MODULE INDICATED FOR COMPLETE AND FUNCTIONING \$</li> <li>8. REQUEST TO EXIT AND DOOR CONTACT INDICAT FOR OPEN CIRCUIT OR SHORT CIRCUIT FAULTS ACCESS CONTROLLER.</li> <li>9. PROVIDE 120V EMERGENCY CIRCUIT TO ALL FIR DEVICES PER CIRCUIT TO SHALL NOT EXCEED E AND RELAYS AS NECESSARY FOR ALL FIRE/SMOD DRAWINGS. ALL FIRE/SMOKE DAMPERS SHALL H PROVIDE DUCT DETECTOR WITHIN 5'-0" OF EACH DIAGRAM D012 IN SHEET E701 FOR ADDITIONAL</li> <li>F1</li> <li>PROVIDE MONITOR MODULE FOR ALL TAMPE DRAWINGS. LOCATE EXACT LOCATION OF SH DRAWINGS PRIOR TO ROUGH-IN. REFER TO D INFORMATION.</li> <li>F12</li> <li>F13</li> <li>F33</li> <li>F4</li> <li>PROVIDE MONITOR MODULE FOR EACH TAMPE F10VIDE TWO-WAY COMMUNICATIONS SYST SYSTEM. PROVIDE A 120V DEDICATED CIRCU AT THIS LOCATION. COORDINATE EXACT LOCATION ROUGH-IN.</li> </ul>	3, ELECTRIC STRIKES, CRASH BARS, ETC.) E FURNISHED AND VERIFY LOCK OF LOCKS MATCH DOOR.				
<ul> <li>ACCESS CONTROL SYSTEM SHALL INCLUDE ANY AUXILIARY DEVICES OR INPUT/OUTPUT MODULE INDICATED FOR COMPLETE AND FUNCTIONING \$</li> <li>REQUEST TO EXIT AND DOOR CONTACT INDICAT FOR OPEN CIRCUIT OR SHORT CIRCUIT FAULTS ACCESS CONTROLLER.</li> <li>PROVIDE 120V EMERGENCY CIRCUIT TO ALL FIR DEVICES PER CIRCUIT TO SHALL NOT EXCEED E AND RELAYS AS NECESSARY FOR ALL FIRE/SMO DRAWINGS. ALL FIRE/SMOKE DAMPERS SHALL H PROVIDE DUCT DETECTOR WITHIN 5'-0" OF EACH DIAGRAM D012 IN SHEET E701 FOR ADDITIONAL</li> <li>F1</li> <li>PROVIDE MONITOR MODULE FOR ALL TAMPE DRAWINGS. LOCATE EXACT LOCATION OF SH DRAWINGS PRIOR TO ROUGH-IN. REFER TO D INFORMATION.</li> <li>F1</li> <li>F1</li> <li>F1</li> <li>F1</li> <li>F1</li> <li>PROVIDE TWO-WAY COMMUNICATIONS SYST SYSTEM. PROVIDE A 120V DEDICATED CIRCU AT THIS LOCATION. COORDINATE EXACT LOCATION ROUGH-IN.</li> <li>F4</li> </ul>	D ACCESS CONTROL DEVICES PROVIDED TH DIVISION 8 FOR EXACT POWER				
<ul> <li>8. REQUEST TO EXIT AND DOOR CONTACT INDICAT FOR OPEN CIRCUIT OR SHORT CIRCUIT FAULTS ACCESS CONTROLLER.</li> <li>9. PROVIDE 120V EMERGENCY CIRCUIT TO ALL FIR DEVICES PER CIRCUIT TO SHALL NOT EXCEED E AND RELAYS AS NECESSARY FOR ALL FIRE/SMOD DRAWINGS. ALL FIRE/SMOKE DAMPERS SHALL H PROVIDE DUCT DETECTOR WITHIN 5'-0" OF EACH DIAGRAM D012 IN SHEET E701 FOR ADDITIONAL</li> <li>F1 PROVIDE MONITOR MODULE FOR ALL TAMPE DRAWINGS. LOCATE EXACT LOCATION OF SH DRAWINGS PRIOR TO ROUGH-IN. REFER TO DINFORMATION.</li> <li>F1 F1 F1 PROVIDE MONITOR MODULE FOR ALL TAMPE DRAWINGS PRIOR TO ROUGH-IN. REFER TO DINFORMATION.</li> <li>F2 F2 F1 PROVIDE MONITOR MODULE FOR EXACT LOCATION OF SH DRAWINGS OF THE BUILDING PRIOR TO ROUGH TO BELL.</li> <li>F3 F3 F3 PROVIDE TWO-WAY COMMUNICATIONS SYST SYSTEM. PROVIDE A 120V DEDICATED CIRCUAT THIS LOCATION. COORDINATE EXACT LOCAROUGH-IN.</li> <li>F4 PROVIDE MONITOR MODULE FOR EACH TAMPE PROVIDE MONITOR TO VERIFY ALL ELECTRICAL MEDICATED CONTRACTOR TO VERIFY ALL ELECTRICAL MEDICATED VERIFY ALL</li></ul>	Y RELAYS, EXTERNAL POWER SUPPLIES, ES REQUIRED TO SUPPORT DOOR TYPE SYSTEM.				
<ul> <li>9. PROVIDE 120V EMERGENCY CIRCUIT TO ALL FIR DEVICES PER CIRCUIT TO SHALL NOT EXCEED E AND RELAYS AS NECESSARY FOR ALL FIRE/SMC DRAWINGS. ALL FIRE/SMOKE DAMPERS SHALL H PROVIDE DUCT DETECTOR WITHIN 5'-0" OF EACH DIAGRAM D012 IN SHEET E701 FOR ADDITIONAL</li> <li>F1 PROVIDE MONITOR MODULE FOR ALL TAMPE DRAWINGS. LOCATE EXACT LOCATION OF SH DRAWINGS PRIOR TO ROUGH-IN. REFER TO DI INFORMATION.</li> <li>F12 F1 FIRE SPRINKLER BELL WITH CONTROL MODUL SPRINKLER CONTRACTOR FOR EXACT LOCAT OUTSIDE OF THE BUILDING PRIOR TO ROUGH TO BELL.</li> <li>F3 PROVIDE TWO-WAY COMMUNICATIONS SYST SYSTEM. PROVIDE A 120V DEDICATED CIRCU AT THIS LOCATION. COORDINATE EXACT LOCATION FOR EXACT LOCATION.</li> <li>F4 PROVIDE MONITOR MODULE FOR EACH TAMPE LEVEL FOR MONITOR MODULE FOR EACH TAMPE CONTRACTOR TO VERIFY ALL ELECTRICAL NOT FOR EXACT LOCATION.</li> </ul>	REQUEST TO EXIT AND DOOR CONTACT INDICATOR CIRCUITS SHALL BE SUPERVISED FOR OPEN CIRCUIT OR SHORT CIRCUIT FAULTS BETWEEN THE DEVICE CONTACTS AND ACCESS CONTROLLER.				
F1SHEET KEYNF1PROVIDE MONITOR MODULE FOR ALL TAMPE DRAWINGS. LOCATE EXACT LOCATION OF SH DRAWINGS PRIOR TO ROUGH-IN. REFER TO D INFORMATION.F2FIRE SPRINKLER BELL WITH CONTROL MODUL SPRINKLER CONTRACTOR FOR EXACT LOCATOUTSIDE OF THE BUILDING PRIOR TO ROUGH TO BELL.F3PROVIDE TWO-WAY COMMUNICATIONS SYST SYSTEM. PROVIDE A 120V DEDICATED CIRCU AT THIS LOCATION. COORDINATE EXACT LOCATOUGH-IN.F4PROVIDE MONITOR MODULE FOR EACH TAMP LEVEL FOR MONITORING THE FIRE SPRINKLE CONTRACTOR TO VERIFY ALL ELECTRICAL N	9. PROVIDE 120V EMERGENCY CIRCUIT TO ALL FIRE/SMOKE DAMPERS RELAYS. NUMBER OF DEVICES PER CIRCUIT TO SHALL NOT EXCEED EIGHT. PROVIDE FIRE ALARM MODULES AND RELAYS AS NECESSARY FOR ALL FIRE/SMOKE DAMPERS SHOWN ON DIVISION 23 DRAWINGS. ALL FIRE/SMOKE DAMPERS SHALL HAVE A MANUAL OVERRIDE SWITCH. PROVIDE DUCT DETECTOR WITHIN 5'-0" OF EACH FIRE/SMOKE DAMPER. REFER TO DIAGRAM D012 IN SHEET F701 FOR ADDITIONAL INFORMATION				
F1PROVIDE MONITOR MODULE FOR ALL TAMPE DRAWINGS. LOCATE EXACT LOCATION OF SH DRAWINGS PRIOR TO ROUGH-IN. REFER TO L INFORMATION.F2FIRE SPRINKLER BELL WITH CONTROL MODUL SPRINKLER CONTRACTOR FOR EXACT LOCATOUTSIDE OF THE BUILDING PRIOR TO ROUGH TO BELL.F3PROVIDE TWO-WAY COMMUNICATIONS SYST SYSTEM. PROVIDE A 120V DEDICATED CIRCU AT THIS LOCATION. COORDINATE EXACT LOCATOUGH-IN.F4PROVIDE MONITOR MODULE FOR EACH TAMPE LEVEL FOR MONITORING THE FIRE SPRINKLE CONTRACTOR TO VERIFY ALL ELECTRICAL NEW CONTRACTOR TO VERIFY ALL PARCEMENTAL PARCEMENTAL PARCEMENTAL PARCEMENTAL PARCEMENTAL PARCEMENTAL PARCEMENTAL PARCEMENTAL PARCEME	NOTES				
F2FIRE SPRINKLER BELL WITH CONTROL MODU SPRINKLER CONTRACTOR FOR EXACT LOCA OUTSIDE OF THE BUILDING PRIOR TO ROUGH TO BELL.F3PROVIDE TWO-WAY COMMUNICATIONS SYST SYSTEM. PROVIDE A 120V DEDICATED CIRCU AT THIS LOCATION. COORDINATE EXACT LOC ROUGH-IN.F4PROVIDE MONITOR MODULE FOR EACH TAMP LEVEL FOR MONITORING THE FIRE SPRINKLE CONTRACTOR TO VERIFY ALL ELECTRICAL N	R AND FLOW SWITCHES SHOWN ON THE HUT OFF VALVE WITH MECHANICAL DETAIL D001 IN SHEET E702 FOR MORE				
F3PROVIDE TWO-WAY COMMUNICATIONS SYST SYSTEM. PROVIDE A 120V DEDICATED CIRCU AT THIS LOCATION. COORDINATE EXACT LOC ROUGH-IN.F4PROVIDE MONITOR MODULE FOR EACH TAME LEVEL FOR MONITORING THE FIRE SPRINKLE CONTRACTOR TO VERIFY ALL ELECTRICAL N	JLE FOR RISER. COORDINATE WITH TION OF HOSE CONNECTION IN THE H-IN. PROVIDE 120V EMERGENCY CIRCUIT				
F4 PROVIDE MONITOR MODULE FOR EACH TAMP LEVEL FOR MONITORING THE FIRE SPRINKLE CONTRACTOR TO VERIFY ALL ELECTRICAL N	TEMS HEAD-END UNIT FOR NEW FIRE ALARM JIT FROM 1LP1 AND ONE CATEGORY-6 CABLE CATION WITH ARCHITECT PRIOR TO				
REFER TO DIAGRAM D001 ON SHEET E701 FO	PER SWITCH AND FLOW SWITCH ON EVERY ER RISER. COORDINATE WITH SPRINKLER IEEDS AND DEVICES PRIOR TO ROUGH-IN. DR ADDITIONAL INFORMATION.				
F5 PROVIDE (2) 120V SINGLE PHASE DEDICATED F5 THIS LOCATION FOR FIRE ALARM CONTROL F PANEL WITH ARCHITECT PRIOR TO ROUGH-IN	) CIRCUITS AND (2) CATEGORY CABLE AT PANEL. COORDINATE EXACT LOCATION OF N.				
S1 PROVIDE DEDICATED 20AMP CIRCUIT FOR EA	ACH ACCESS CONTROL PANEL.				



 $\smile$ 

 $\smile$ 

5

$\sim\sim\sim\sim\sim\sim$	7
ICATED. EVICES.	, <b>,</b> , , , , , , , , , , , , , , , , ,
ER AND ACCESS	X X X
ILLIONS SHALL	Y Y
ASH BARS, ETC.) / LOCK	Y · Y ·
ICES PROVIDED	Y Y Y
WER SUPPLIES, RT DOOR TYPE	, <b>k</b>
SUPERVISED ONTACTS AND	X Y Y
AYS. NUMBER OF RM MODULES I DIVISION 23 E SWITCH. REFER TO	Y Y Y
SHOWN ON THE HANICAL 2 FOR MORE	
ATE WITH ON IN THE GENCY CIRCUIT	
NEW FIRE ALARM ATEGORY-6 CABLE PRIOR TO	
WITCH ON EVERY 'ITH SPRINKLER R TO ROUGH-IN. 'ION.	
ORY CABLE AT CT LOCATION OF	
NEL.	ŀ







X A



LEVEL 01 SYSTEMS PLAN (EXISTING BLDG) SCALE = 1/8" = 1'-0"



E402; mmm

Е

D

С

1



A		GENERAL NOTES
{	1.	PROVIDE RACEWAY, CONDUIT, AND WIRING FOR SECURITY DEVICES INDICATED.
	2.	PROVIDE CONCEALED 3/4" C TYPICAL FOR LINES SHOWN TO SECURITY DEVICES. COORDINATE ALL JUNCTION BOX ROUGH-IN LOCATIONS WITH THE OWNER AND ACCESS SYSTEM CONTROL SYSTEM SUPPLIER PRIOR TO ANY ROUGH-IN.
	3.	DIVISION 8 AND DIVISION 28 CONTRACTORS SHALL COORDINATE WITH ELECTRICAL CONTRACTORS TO OUTLINE POWER AND WIRING FOR DEVICES AND EXACT DEVICE LOCATION.
	4.	ALL CABLING TO DEVICES THAT ARE INSTALLED WITHIN DOOR OR ON MULLIONS SHALL BE ROUTED THROUGH THE MULLIONS. COORDINATE INSTALLATION WITH THE WINDOW SYSTEM INSTALLER PRIOR TO ANY ROUGH-IN.
	5.	ELECTRONIC LOCKING HARDWARE (MAG LOCKS, ELECTRIC STRIKES, CRASH BARS, ETC.) BY DIV 8. REVIEW DOOR HARDWARE SCHEDULE FURNISHED AND VERIFY LOCK VOLTAGES AND OPERATIONAL FUNCTIONALITY OF LOCKS MATCH DOOR.
	6.	POWER SUPPLIES FOR ELECTRONIC LOCKS AND ACCESS CONTROL DEVICES PROVIDED BY DIVISION 28 CONTRACTOR. COORDINATE WITH DIVISION 8 FOR EXACT POWER REQUIREMENTS
	7.	ACCESS CONTROL SYSTEM SHALL INCLUDE ANY RELAYS, EXTERNAL POWER SUPPLIES, AUXILIARY DEVICES OR INPUT/OUTPUT MODULES REQUIRED TO SUPPORT DOOR TYPE INDICATED FOR COMPLETE AND FUNCTIONING SYSTEM.
	8.	REQUEST TO EXIT AND DOOR CONTACT INDICATOR CIRCUITS SHALL BE SUPERVISED FOR OPEN CIRCUIT OR SHORT CIRCUIT FAULTS BETWEEN THE DEVICE CONTACTS AND ACCESS CONTROLLER.
	9.	PROVIDE 120V EMERGENCY CIRCUIT TO ALL FIRE/SMOKE DAMPERS RELAYS. NUMBER OF DEVICES PER CIRCUIT TO SHALL NOT EXCEED EIGHT. PROVIDE FIRE ALARM MODUELS AND RELAYS AS NECESSARY FOR ALL FIRE/SMOKE DAMPERS SHOWN ON DIVISION 23 DRAWINGS. ALL FIRE/SMOKE DAMPERS SHALL HAVE A MANUAL OVERRIDE SWITCH. PROVIDE DUCT DETECTOR WITHIN 5'-0" OF EACH FIRE/SMOKE DAMPER. REFER TO DIAGRAM D012 IN SHEET E701 FOR ADDITIONAL INFORMATION.

$\sim\sim\sim\sim\sim$
ICATED.
EVICES. ER AND ACCESS
LECTRICAL CT DEVICE
ILLIONS SHALL I THE WINDOW
ASH BARS, ETC.) / LOCK
ICES PROVIDED
WER SUPPLIES, RT DOOR TYPE
SUPERVISED ONTACTS AND
AYS. NUMBER OF RM MODUELS N DIVISION 23 E SWITCH. REFER TO









![](_page_55_Figure_8.jpeg)

(6) PROVIDE (3) 3" STUB UP CONDUIT FROM CT FOR FUTURE REC CENTER. COORDINATE EXACT LOCATION

WITH OWNER PRIOR TO ROUGH-IN. MARK AND CAP CONDUITS WITH 6" ROUND BOX.

ALUMINUM CONDUCTOR & CONDUIT SCHEDULE							
TYPE	AMP.	COND.	COND	UCTOR	INSUL-	EQ. GND.	
211	100	SIZE	QUAN.	SIZE	ATION	COND.(AL)	
	120	2	3	1/0		4	
(41X)	120	2"	4	1/0	XHHVV-2	4	
<51X>	120	2"	5 *	1/0	XHHW-2	4	
< <u>32X</u>	135	2"	3	2/0	XHHW-2	4	
<42X>	135	2"	4	2/0	XHHW-2	4	
<52X>	135	2"	5 *	2/0	XHHW-2	4	
<b>33X</b>	155	2"	3	3/0	XHHW-2	4	
<b>43X</b>	155	2"	4	3/0	XHHW-2	4	
<b>(53X)</b>	155	3"	5 *	3/0	XHHW-2	4	
<b>34X</b>	180	2"	3	4/0	XHHW-2	4	
<b>44X</b>	180	3"	4	4/0	XHHW-2	4	
<b>54X</b>	180	3"	5 *	4/0	XHHW-2	2	
325	205	2"	3	250	XHHW-2	2	
<b>425</b>	205	3"	4	250	XHHW-2	2	
525	205	3"	5 *	250	XHHW-2	2	
<b>330</b>	230	3"	3	300	XHHW-2	2	
<b>430</b>	230	3"	4	300	XHHW-2	2	
<b>530</b>	230	3"	5 *	300	XHHW-2	2	
<b>335</b>	250	3"	3	350	XHHW-2	2	
<b>435</b>	250	3"	4	350	XHHW-2	2	
<b>535</b>	250	3"	5 *	350	XHHW-2	2	
<b>340</b>	270	3"	3	400	XHHW-2	2	
440	270	3"	4	400	XHHW-2	2	
540	270	3"	5 *	400	XHHW-2	2	
350	310	4"	3	500	XHHW-2	1	
<u></u>	310	4"	4	500	XHHW-2	1	
550	310	4"	5 *	500	XHHW-2	1	
375	385	4"	3	750	XHHW-2	1	
<u></u>	385	4"	4	750	XHHW-2	1	
575	385	4"	5 *	750	XHHW-2	1	

CONDUCTOR & CONDUIT SCHEDULE FOR PARALLEL RUNS								
YPE	MAX. O.C. C PROT. A	COND.	SETS	CONDUCTOR		CONDUIT	EQ.	
		AMPS		QUAN.	SIZE	SIZE	CON	
325-2 >	400	410	2	3	250	2.5"	2	
25-2	400	410	2	4	250	2 5"	2	

ALUMINUM

		TYPE	MAX. O.C.	COND.	SETS	CONDU	JCTOR	CONDUIT	EQ. GND.	
			325.2	PRUI. 400	AMPS 410	2	QUAN.	SIZE 250	512E	2/0
			425.2	400	410	2	3	250	2.5	2/0
			425-2	400	410	2	4	250	2.5	2/0
			525-2	400	410	2	5 *	250	2.5"	2/0
			350-2	600	620	2	3	500	3"	2/0
			450-2	600	620	2	4	500	3"	2/0
			550-2	600	620	2	5 *	500	4"	2/0
			375-2	800	770	2	3	750	3"	3/0
			475-2	800	770	2	4	750	4"	3/0
			575-2	800	770	2	5 *	750	4"	3/0
			340-3	800	810	3	3	400	2.5"	3/0
R	Y		440-3	800	810	3	4	400	3"	3/0
			540-3	800	810	3	5 *	400	3"	3/0
		EQ. GND.	375-3	1000	1155	3	3	750	4"	4/0
	1-1/2"	6	475-3	1000	1155	3	4	750	4"	4/0
	2"	4	575-3	1000	1155	3	5 *	750	4"	4/0
	2"		350-4	1200	1240	4	3	500	4"	250
	ى 2"	2 1	450-4	1200	1240	4	4	500	4"	250
	3	1	550-4	1200	1240	4	5 *	500	4"	250
	4	2/0	340-6	1600	1620	6	3	400	4"	350
	4	3/0	440-6	1600	1620	6	4	400	4"	350
	4	250	540-6	1600	1620	6	5 *	400	4"	350
	4"	350	475-6	2000	2310	6	4	750	4"	400
	4"	400***	475-7	2500	2695	7	4	750	5"	600
			475-8	3000	3080	8	4	750	5"	600
R	Y		475-11	4000	4235	11	4	750	5"	750
)	Y		NOTES	;	1					
	CONDUIT	EQ. GND.	IN PAR ACCOF	ALLEL RUN RDANCE W	NS SIZE	GND. C PARA	OND. IN 250-122			
	SIZE	COND.	GND		R MAY F					
2" 6 ON SERVICE ENTRANCE CONDUCTORS						ICTORS				

ON SERVICE ENTRANCE CONDUCT
* 200% NEUTRAL

\*\* COPPER CONDUCTOR (XHHW) PROVIDE COMPACT STRANDED ALUMINUM ASSOCIATION 8000 SERIES ALLOY CONDUCTORS.

PROVIDE TERMINATION FOR ALUMINUM-ALLOY CONDUCTORS OF HYDRAULIC COMPRESSION TYPE ONLY LISTED UNDER UL 486-B MARKED "AL7CU" FOR 75°

RATED CIRCUITS. PROVIDE ALL ELECTRICAL EQUIPMENT WITH PROPER

SIZING TO ACCOMMODATE ALUMINUM CONDUCTORS, COORDINATE WITH EQUIPMENT SUPPLIER.

ALUMINUM CONDUCTOR & O.C. PROT. FOR TRANSFORMER PRIMARY				ALUMINUM XHHW-2 CONDUCTOR & O.C. PROT. FOR TRANSFORMER SECONDARY								
TRANS KVA	O.C. PROT.	TYPE COND.*	GND. COND.**	MIN. Z%	O.C. PROT.	TYPE COND.	COND. AMPS	SETS	CONDU QUAN.	JCTOR SIZE	CONDUIT SIZE	EQ. GND. COND.
30	50	36	8	3	100	(T41X-1)	120	1	4	1/0	1-1/2"	6
45	70	34	4	3	175	<b>T44X-1</b>	180	1	4	4/0	3"	4
75	125	32X	2	3	225	<b>T435-1</b>	250	1	4	350	3"	2
112.5	175	34X	2	4	400	T425-2	410	2	4	250	3"	1
150	300	350	2/0	4	600	T450-2	610	2	4	500	4"	2/0
225	400	375	3/0	4	800	T440-3	810	3	4	400	4"	3/0
300	600	350-2	3/0	5	1200	T450-4	1240	4	4	500	4"	250
500	800	340-3	3/0	5	1600	T440-6	1620	6	4	400	4"	350
750	1200	350-4	3/0	5	3000	T450-10	3100	10	4	500	4"	400***
FC	ALUMINUM CONDUCTOR & O.C. PROT. FOR TRANSFORMER PRIMARY				CONDUCTOR & O.C. PROT. FOR TRANSFORMER SECONDARY (200% NEUTRAL)_480-208/120							
TRANS	0.C.	TYPE	GND.	MIN.	0.C.	TYPE	COND.	SETS	CONDU	JCTOR	CONDUIT	EQ. GND.
KVA 20	PROT.	COND.*	COND.**	2% 2	PROT.	COND.	AMPS		QUAN.	SIZE	SIZE	COND.
30	50	00	0	3	175		120	1	5	1/0	2	0
40	105	34	4	3	175		160	1	5 F	4/0	3 2"	4
75	125		2	3	225		250	1	5	350	3	2
112.5	1/5	<u>34X</u>	2	4	400	1525-2	410	2	5	250	3	1
150	300		2/0	4	600	< T550-2 >	610	2	5	500	4"	2/0
225	400	375	3/0	4	800	< T540-3 >	810	3	5	400	4"	3/0
300	600	350-2	3/0	5	1200	<u> </u>	1240	4	5	500	4"	250
300 500	600 800	350-2	3/0 3/0	5 5	1200 1600	T550-4           T540-6	1240 1620	4 6	5 5	500 400	4" 4"	250 350
300 500 750	600 800 1200	350-2 340-3 350-4	3/0 3/0 3/0	5 5 5	1200 1600 3000	T550-4           T540-6           T550-10	1240 1620 3100	4 6 10	5 5 5	500 400 500	4" 4" 4"	250 350 400***

![](_page_55_Figure_24.jpeg)

![](_page_55_Picture_25.jpeg)

![](_page_55_Picture_26.jpeg)

	CONTROL RELAY SCHEDULE	PA	NELBOARD SCHEDULE	SWITCHBOARD SCHEDULE			
	Panel Name: RP1	PANEL: 1LL1	TYPE:         Type 1         VOLTS:         120/208 Wye         PHASE:         3	WIRES:	Switchboard: MDP Location: ELECTRICAL 127	Volts: 120/208 Wye	A.I.C. Rating: 65,000
	Mounting: Surface	MOUNTING: SURFACE	LOCATION: ELECTRICAL 109	MAINS: MCB	Supply From: Mounting:	Phases: 3 Wires: 4	Mains Type: MCB Mains Rating: 1200 A
	Nema Type: Type 1 Transformer Voltage: 120V		FED FROM:         MDP           AMP:         150 A				
	Control Circuit: SEE POWER PLAN			200% NEUTRAL SPD	CKT         CIRCUIT DESCRIPTION           1         EXISTING PANEL IN EQUESTRIAN BUILDING           2         STUB-UP FUTURE USE	#OF 3	AMPS         LOAD         REMARKS           175 A         0 VA
	Relay #         Description         Panel Circuit         Control Switch         Dimming Type         Programming           1         LTG - VESTIBULES LEVEL 1         SEE LTG PLAN         MS#         0-10V         PER OWNER	<b>j</b>	BRANCH BREAKERS		3 STUB-UP FUTURE USE 4 NEW PANEL IN STORAGE BUILDING	3	50 A         0 VA           50 A         0 VA           200 A         0 VA
	2     LTG - CORRIDOR 115 LINEAR     SEE LTG PLAN     MS#     0-10V     PER OWNER       3     LTG - CORRIDOR 115 DWNLTG     SEE LTG PLAN     MS#     0-10V     PER OWNER	ITEM     AMPS     POLE     SIZE       LTG - MULTI-PURPOSE-1 124-1     20 A     1     12	CIR. NO.         A         B         C         A         B         C         CIR. NO.         WIRE SIZE         WIRE SIZE         PO           1         964 VA         0 VA         2        <	DLEAMPSITEM120 ASPARE	5 1LM1 6 1LL1	3	600 A         165541 VA           150 A         7664 VA
	4     LTG - LOBBY 120     SEE LTG PLAN     MS#     0-10V     PER OWNER       5     LTG - LOBBY 120     SEE LTG PLAN     MS#     0-10V     PER OWNER	LTG - TABLE STORAGE 125         20 A         1         12           LTG - CORRIDOR-1 115-1         20 A         1         12	3         1010 VA         0 VA         4            5         601 VA         0 VA         6	1         20 A         SPARE           1         20 A         SPARE	7 1LP2 8 1LP1 9 FLEVATOR	3	225 A         16680 VA           225 A         34440 VA           150 A         24992 VA
	6     LTG - VESTIBULE 206A     SEE LTG PLAN     MS#     0-10V     PER OWNER	LTG - WOMEN'S RR 117         20 A         1         12           LTG - VIEWING / LOUNGE 111         20 A         1         12	7     1553 VA     0 VA     8        9     558 VA     0 VA     0 VA     10	1         20 A         SPARE           1         20 A         SPARE	10 SPARE	3	225 A 0 VA
	7       LTG - CHECK-IN 106 WALL WASH SEE LTG PLAN       MS#       0-10V       PER OWNER         8       LTG - CHECK-IN 106 PENDANTS       SEE LTG PLAN       MS#       ELV OR MLV       PER OWNER	LTG - PHYSICAL THERAPY 112         20 A         1         12           LTG - CORRIDOR-1 115-1         20 A         1         12           LTG - CORRIDOR-1 115-1         20 A         1         12	11     822 VA     0 VA     12        13     1116 VA     0 VA     14        15     001 VA     0 VA     16	1         20 A         SPARE           1         20 A         SPARE           1         20 A         SPARE	12 SPD 13 SPACE ONLY	3	40 A 0 VA
	9     LTG - LOBBY 102 PENDANTS     SEE LTG PLAN     MS#     0-10V     PER OWNER       10     LTG - STAIRS 143     SEE LTG PLAN     MS#     0-10V     PER OWNER	LTG - MEETING         20 A         1         12           LTG/RCPT - Elevator         20 A         1         12	10         301 VA         100 VA         100 VA         100 VA           17         107 VA         0 VA         18            19         32 VA         0 VA         20	1         20 A         SPARE           1         20 A         SPARE           1         20 A         SPARE	14 SPACE ONLY 15 SPACE ONLY		0 VA 0 VA
	11         LTG - LOBBY 201         SEE LTG PLAN         MS#         0-10V         PER OWNER           12         SPACE ONLY	SPARE         20 A         1            SPARE         20 A         1	21         0 VA         0 VA         22            23         0 VA         0 VA         0 VA         24	1         20 A         SPARE           1         20 A         SPARE	16 SPACE ONLY 17 SPACE ONLY		0 VA 0 VA
	13         SPACE ONLY	SPARE         20 A         1            SPARE         20 A         1	25         0 VA         0 VA         26            27         0 VA         0 VA         28	1         20 A         SPARE           1         20 A         SPARE           1         20 A         SPARE	18SPACE ONLY19SPACE ONLY		0 VA 0 VA
	15         SPACE ONLY	SPARE         20 A         1            SPARE         20 A         1            SPARE         20 A         1	29     0 VA     0 VA     0 VA     30        31     0 VA     0 VA     32        33     0 VA     0 VA     34	1         20 A         SPARE           1         20 A         SPARE           1         20 A         SPARE	20 SPACE ONLY	 TOTAL COM	0 VA NN. LOAD: 249318 VA
	\ Notes:	SPARE         20 A         1            SPARE         20 A         1            SPARE         20 A         1	35         0 VA         0 VA         36            37         0 VA         0 VA         38	1         20 A         SPARE           1         20 A         SPARE           1         20 A         SPARE	Legend:	τοτ/	AL AMPS: 692 A
	<pre>{</pre>	SPARE         20 A         1            SPARE         20 A         1	39         0 VA         0 VA         0 VA         40            41         0 VA         0 VA         0 VA         42	1         20 A         SPARE           1         20 A         SPARE			
			3665 2470 1530 <b>TOTAL (VA)</b>	CONNECTED LOAD TOTAL			
		(Legend: * PROVIDE 5mA GFCI CIRCUIT BREAKER		10.000 AMDS DMS SYSM	PANEI	_BOARD SCH	EDULE
		{				/pe 1 VOLTS: 120/208 V	Wye         PHASE:         3         WIRES:         4
		PA	NELBOARD SCHEDULE		MOUNTING: SURFACE		ICAL 109 MAINS: MCB
		( PANEL: 1LP1	TYPE:         Type 1         VOLTS:         120/208 Wye         PHASE:         3	WIRES: _4		AMP: 600 A	
		( MOUNTING: SURFACE	LOCATION: ELECTRICAL 127	MAINS: MLO			200% NEG
			FED FROM: MDP			BRANCH BREAKERS	
		Ş		200% NEUTRAL	ITEMAMPSPOLEWIRE SIZECIR. NO.FAN COILS/HEATER20 A21211298 V	B         C         A         B           VA         528 VA         528 VA         528 VA	CIR.WIRE NO.POLEAMPSITEM212120 AEF-1
		8	BRANCH BREAKERS		3           FAN COILS         20 A         2         12         5	1298 VA 0 VA 1018 VA 0	4          1         20 A         SPARE           1594 VA         6         12         1         20 A         EH-3
		ITEM AMPS POLE SIZE	CIR. NO. A B C A B C CIR. WIRE NO. SIZE PO	DLE AMPS ITEM	/         1018 V           EH-3         20 A         1         12         9           MUA-1         20 A         3         12         11	YA         1000 VA           1594 VA         1000 VA           1273 VA         1000 VA	8         2         20 A         HVAC           10               12
		RECEPTACLE Room 109, 180         20 A         1         12           RECEPTACLE         20 A         1         12	1         1080 VA         900 VA         2         12           3         900 VA         900 VA         4         12	1         20 A         RECEPTACLE           1         20 A         RECEPTACLE Space 168           1         20 A         RECEPTACLE Space 168	13 1273 V	Image: Applied of the second	14         12         1         20 A         EF-2           16         1/0         3         70 A         HP-2
		Other Space 170         20 A         1         12           Other Space 169         20 A         1         12           BECEPTACLE Space 161         20 A         1         12	5     1000 VA     720 VA     6     12       7     720 VA     0 VA     8        9     420 VA     0 VA     10	1         20 A         RECEPTACLE Space 168           1         20 A         SPARE           1         20 A         SPARE	Motor PHYSICAL THERAPY 112         20 A         1         12         17           EH-1         25 A         2         10         19         2000 V	1176 VA         !           VA         5563 VA	5563 VA         18               20
		LEVEL 1 EWC *         20 A         1         12           RCPT - 119 GENERAL         20 A         1         12	11         1500 VA         0 VA         12            13         360 VA         720 VA         14         12	1         20 A         SPARE           1         20 A         POWER Space 168	21           EH-1         25 A         2         10         23	2000 VA 10942 2000 VA 10942	22         4         3         150 A         HP-1           10942         24
		RP1         20 A         1         12           1LL1         20 A         1         12	15         0 VA         1500 VA         16         12           17         0 VA         1500 VA         18         12	1         20 A         RCPT - 119 COFFEE MAKER           1         20 A         RCPT - 119 MICROWAVE	25         2000           EH-1         25 A         2         10         27              29         2000	A         10942           2000 VA         4160 VA           2000 VA         4160 VA	26                         4160 VA         30 <t< td=""></t<>
		RCPT - 119 WARMING CAB.         20 A         1         12           RCPT - 119 GENERAL         20 A         1         12	19     1440 VA     0 VA     20        21     720 VA     180 VA     22     12	1         20 A         SPARE           1         20 A         RECEPTACLE	EH-3         20 A         1         12         31         1594 V           FAN COILS         20 A         2         12         33         3	/A         4160 VA           488 VA         4160 VA	32         10         2         20 A         EWH-2           34
		RCP1 - 119 REFRIGERATOR         20 A         1         12           RCPT - 119 REFRIGERATOR         20 A         1         12           RCPT - 119 REFRIGERATOR         20 A         1         12	23     1200 VA     180 VA     24     12       25     1200 VA     840 VA     26     12       27     180 VA     0 VA     28	1         20 A         RECEPTACLE Space 159           1         20 A         RCPT - 119 ICE MAKER           1         20 A         SPARE	35           HVAC Room 111, 108, 112         20 A         2         12         37         473 V	488 VA         1248 VA	1248 VA         36         12         2         20 A         EWH-3           38
		RCPT - 118 UC REFRIG.         20 A         1         12           RECEPTACLE Space 171         20 A         1         12	29         180 VA         0 VA         30            31         360 VA         0 VA         32         12	1         20 A         SPARE           1         20 A         POWER VESTIBULE 126	39           EH-3         20 A         1         12         41	473 VA         4160 VA           1594 VA         4160 VA	40         6         2         50 A         EWH-2           4160 VA         42
		RECEPTACLE Space 171         20 A         1         12           RECEPTACLE Space 171         20 A         1         12	33         360 VA         1000 VA         34         12           35         360 VA         0 VA         36         12	1         20 A         POWER           1         20 A         POWER	EWH-2         50 A         2         6         43         4160 V               45           EWH-2         50 A         2         6         47	YA         1000 VA           4160 VA         1000 VA           4160 VA         1000 VA	44         12         2         20 A         HVAC VESTIBULE           46               1176 VA         48         12         1         20 A         Motor PHYSICAL THEE
		RECEPTACLE Space 109         20 A         1         12           RECEPTACLE Space 158         20 A         1         12	37     1500 VA     180 VA     38     12       39     840 VA     5750 VA     40     6	1         20 A         RCPT - 127 GENERAL           2         50 A         RCPT - 119 TURBO CHEF	49         4160 \\           EWH-2         50 A         2         6         51	/A         4160 VA           4160 VA         4160 VA	50         6         2         50 A         EWH-2           52
		SPARE 20 A 1	41 0 VA 5750 VA 42 9300 12750 12390 TOTAL (VA)		53           EWH-1         25 A         2         10         55         2080 V	4160 VA         4160 VA           VA         4160 VA	4160 VA         54         6         2         50 A         EWH-2           56
		Legend:	78 A 110 A 107 A AMPS/PHASE	34440 VA	57           EWH-1         25 A         2         10         59	2080 VA 1248 VA 2080 VA 1248 VA	58         12         2         20 A         EWH-3           1248 VA         60
		{	AIC RATING	22,000 AMPS RMS SYSM.	61         2000           SPARE         20 A         1          63           SPARE         20 A         1          65		62          1         20 A         SPARE           64          1         20 A         SPARE           0 VA         66          1         20 A         SPARE
					SPARE         20 A         1          67         0 VA           SPARE         20 A         1          69         0	0 VA           0 VA           0 VA	68          1         20 A         SPARE           70          1         20 A         SPARE
Nume				WIRFS: 4	SPARE         20 A         1          71           SPARE         20 A         1          73         0 VA		0 VA         72          1         20 A         SPARE           74          1         20 A         SPARE
					SPARE         20 A         1          75           SPARE         20 A         1          77           SPARE         20 A         1          77	0 VA 0 VA	/6          1         20 A         SPARE           0 VA         78          1         20 A         SPARE           80          1         20 A         SPARE
		( MOUNTING: SURFACE	LOCATION:         ELECTRICAL 109           FED FROM:         MDP	MAINS: MCB SUBFEED LUGS	SPARE         20 A         1          79         0 VA           SPARE         20 A         1          81           SPARE         20 A         1          83	0 VA 0 VA	82          1         20 A         SPARE           0 VA         84          1         20 A         SPARE
		{	<b>AMP</b> : 225 A	ISO GROUND 200% NEUTRAL	5542	24 55918 54199 <b>TOTAL (VA)</b>	
Unit         Display         Display <thdisplay< th=""> <thdisplay< th=""> <thdisp< td=""><td></td><td>ξ</td><td></td><td>SPD</td><td>Legend:       463 /         * PROVIDE 5mA GFCI CIRCUIT BREAKER       463 /</td><td>A 468 A 452 A AMPS/PHASE</td><td>165541 VA</td></thdisp<></thdisplay<></thdisplay<>		ξ		SPD	Legend:       463 /         * PROVIDE 5mA GFCI CIRCUIT BREAKER       463 /	A 468 A 452 A AMPS/PHASE	165541 VA
Out Bath         Offer         Part         Bath         No.         A         C         A         B         C         A         B         C         A         B         C         B         C         B         C         B         C         B         C         B         C         B         C         B         C         B         C         B         C         B         C         B         C         B         C         B         C         B         C         B         C         B         C         C         B         C         C         B         C         C         B         C         C         B         C         C         B         C         C         A         C         C         C         B         C         C         C         C         C         B         C					Luu		
10000000000000000000000000		ITEM     AMPS     POLE     SIZE       Other Space 129     20 A     1     12       RECEPTACLE Space 129     20 A     1     12	NO.         A         B         C         A         B         C         NO.         Size         PC           1         360 VA         180 VA         2         12         12           3         900 VA         180 VA         4         12	DLE         AMPS         ITEM           1         20 A         RECEPTACLE Space 149           1         20 A         RECEPTACLE Space 149	$\overline{\Lambda}$		
1       1000000000000000000000000000000000000		RECEPTACLE Space 179         20 A         1         12           RECEPTACLE Space 183         20 A         1         12	5         720 VA         720 VA         6         12           7         180 VA         720 VA         8         12	1     20 A     RECEPTACLE       1     20 A     Other			
Network       0.00		RECEPTACLE Space 183         20 A         1         12           RECEPTACLE Space 183         20 A         1         12           RECEPTACLE Space 183         20 A         1         12	9         180 VA         180 VA         10         12           11         180 VA         0 VA         12         12           13         900 VA         0 VA         14         14	1         20 A         ATC PANEL           1         20 A         POWER           1         20 A         SDADE			
PECOPTALE Space 14       20       1       12       12       12       1       10       PECOPTALE Space 14         SPARE       20       1       12       27       10       10       10       10       10       10       PECOPTALE Space 14       20       10       12       27       10       10       10       PECOPTALE Space 14       20       10       12       27       70 <td></td> <td>RECEPTACLE Space 183         20 A         1         12           RECEPTACLE Space 183         20 A         1         12           RECEPTACLE Space 183         20 A         1         12</td> <td>13         500 VA         0 VA         14            15         180 VA         0 VA         16            17         900 VA         0 VA         18        </td> <td>1         20 A         SPARE           1         20 A         SPARE           1         20 A         SPARE</td> <td></td> <td></td> <td></td>		RECEPTACLE Space 183         20 A         1         12           RECEPTACLE Space 183         20 A         1         12           RECEPTACLE Space 183         20 A         1         12	13         500 VA         0 VA         14            15         180 VA         0 VA         16            17         900 VA         0 VA         18	1         20 A         SPARE           1         20 A         SPARE           1         20 A         SPARE			
HECCEPTACLE Space 149       20 A       1       12       23       1       12       23       10       100 VA       20       28       -       1       20A       1       12       25       900 VA       10       12       27       40 VA       0VA       0VA <td< td=""><td></td><td>RECEPTACLE Space 181         20 A         1         12           SPARE         20 A         1        </td><td>19     720 VA     0 VA     20     12       21     0 VA     750 VA     22     12</td><td>1     20 A     POWER ELEV. 105       2     20 A     RECEPT ELECTRICAL 109</td><td></td><td></td><td></td></td<>		RECEPTACLE Space 181         20 A         1         12           SPARE         20 A         1	19     720 VA     0 VA     20     12       21     0 VA     750 VA     22     12	1     20 A     POWER ELEV. 105       2     20 A     RECEPT ELECTRICAL 109			
NECLPTIALLE       20A       1       12       27       420 VA       0       VA       28       -       1       20A       SPARE         NECEPTALE Space 149       20A       1       12       31       1500 VA       0       VA       30       -       1       20A       SPARE         RECEPTALE Space 149       20A       1       12       33       180 VA       0       VA       32       -       1       20A       SPARE         RECEPTALE Space 149       20A       1       12       33       180 VA       0       VA       34       -       1       20A       SPARE         Other Space 149       20A       1       12       37       540 VA       VA       0 VA       38       -       1       20A       SPARE         Other Space 149       20A       1       12       37       540 VA       VA       0 VA       40       -       1       20A       SPARE         POWER Space 149       20A       1       12       37       540 VA       VA       0 VA       40       -       1       20A       SPARE         POWER Space 149       20A       1       100 VA       VA		RECEPTACLE Space 149         20 A         1         12           RECEPTACLE Space 149         20 A         1         12	23     180 VA     750 VA     24        25     900 VA     180 VA     26	 1 20 A RECEPTACLE ELECTRICAL 109			
Indext in the space 149       20 A       1       12       33       180 VA       0 VA       34       -       1       20 A       SpAre         RECEPTACLE Space 149       20 A       1       12       35       0       720 VA       0 VA       36       -       1       20 A       SpAre         Power Space 149       20 A       1       12       35       0       0 VA       38       -       1       20 A       SpAre         Power Space 149       20 A       1       12       37       540 VA       0 VA       38       -       1       20 A       SpAre         Power Space 149       20 A       1       12       39       1500 VA       0 VA       38       -       1       20 A       SpAre         Power Space 149       20 A       1       12       39       1500 VA       0 VA       0 VA       40       -       1       20 A       SpAre         Power Space 149       20 A       1       120 VA       0 VA       0 VA       40       -       1       20 A       SpAre         Power Space 149       20 A       1       1500 VA       0 VA       0 VA       52 A       ON       ON		RECEPTACLE         20 A         1         12           RECEPTACLE Space 149         20 A         1         12           RECEPT         20 A         1         12	27         420 VA         0 VA         28            29         360 VA         0 VA         30            31         1500 VA         0 VA         32	I         ZUA         SPARE           1         20 A         SPARE           1         20 A         SPARE			
Other Space 149       20 A       1       12       37       540 VA       0       0       38       -       1       20 A       SPARE         POWER Space 149       20 A       1       12       39       1500 VA       0       0       40       -       1       20 A       SPARE         POWER Space 149       20 A       1       12       41       E       100 VA       0       40       -       1       20 A       SPARE         POWER Space 149       20 A       1       12       41       E       100 VA       0VA       40       -       1       20 A       SPARE         POWER Space 149       20 A       1       12       41       E       10       0VA       42       -       1       20 A       SPARE         POWER Space 149       20 A       1       12       41       E       0VA       42       -       1       20 A       SPARE         Legend:       54       37 A       52 A       AMPS/PHASE       AMPS/PHASE       E       CONNECTED LOAD TOTAL         * PROVIDE 5mA GFCI CIRCUIT BREAKER       54 A       37 A       52 A       AMPS/PHASE       E       16680 VA       16680 VA </td <td></td> <td>RECEPTACLE Space 149         20 A         1         12           RECEPTACLE Space 149         20 A         1         12</td> <td>33     180 VA     0 VA     34        35     720 VA     0 VA     36    </td> <td>1         20 A         SPARE            1         20 A         SPARE</td> <td></td> <td></td> <td></td>		RECEPTACLE Space 149         20 A         1         12           RECEPTACLE Space 149         20 A         1         12	33     180 VA     0 VA     34        35     720 VA     0 VA     36	1         20 A         SPARE            1         20 A         SPARE			
POWER Space 149       20 A       1       12       41       1500 VA       42       -       1       20 A       SPARE         Constraint       6180       4470       6030       TOTAL (VA)       Constraint		Other Space 149         20 A         1         12           POWER Space 149         20 A         1         12	37     540 VA     0 VA     38        39     1500 VA     0 VA     40	1         20 A         SPARE           1         20 A         SPARE			
Legend:     54 A     37 A     52 A     AMPS/PHASE     16680 VA       * PROVIDE 5mA GFCI CIRCUIT BREAKER     16680 VA     16680 VA		POWER Space 149 20 A 1 12	41 1500 VA 0 VA 42				
		Legend: * PROVIDE 5mA GFCI CIRCUIT BREAKER	54 A         37 A         52 A         AMPS/PHASE	16680 VA			

E

\_\_\_\_D

\_\_\_\_C

В

R S

1

## 4

3

2

AIC RATING 10,000 AMPS RMS SYSM. hamman 6

5

![](_page_56_Picture_45.jpeg)

![](_page_56_Picture_46.jpeg)

![](_page_56_Picture_47.jpeg)

TO FIRE ALAF MONITORING CIRCU FOR ELEVATOR RECA AND NOTIFICATION (TY PROVIDE SMO DETECTOR AT T
CF ELEVATOR SHA
TO FIRE ALAF MONITORING CIRCU FOR ELEVATOR RECA AND NOTIFICATION (TY
SMOKE DETECTOR THIRD LEVEL LOB
TO FIRE ALAF MONITORING CIRCL
SMOKE DETECTOR SECOND LEVEL LOB
MONITORING CIRCU FOR ELEVATOR RECA AND NOTIFICATION (TY
SMOKE DETECTOR IN MA LEVEL LOB
SEE PANEL SCHEDULE -
VAPOR TIGHT LUMINAIRE –
AT PIT ACCESS LOCATION -
FUSED DISCONNET FOR SUMP PUMP –
PIT ACCESS LOCATION
L DIAGI
۲ ۲ ۲
CONDUI ALARI PROTECTION EXACT
NOTE:     FLOW & TAMPER     PROVIDED AND     SPRINKLER CON
by electrical

i A

![](_page_57_Figure_1.jpeg)

	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
Ε	
	4" 4" ROUGH EXISTING FLOOR UNDER PAD
D	ANCHOR BOLTS SIZES AND TYPE WITH REQUIREM CURRENT IBC.
	DIAGE
C	
	DIAGR
<u></u>	
	CONCRET
Σ	
	(]

N A

DIAGRAM

![](_page_58_Figure_3.jpeg)

![](_page_58_Figure_7.jpeg)

![](_page_59_Figure_0.jpeg)

![](_page_60_Figure_13.jpeg)

![](_page_60_Figure_18.jpeg)

	SHEET KEYNOTES
T1	COORDINATE WITH OWNER ON EXACT LOCATION OF DEVICES.
T2	LOCATE EQUIPMENT CABNINET ON SOUTH WALL. COORDINATE WITH OWNER ON EXACLOCATION.
T4	MOUNT DEVICES AT 24" A.F.F.
T5	ROOM SCHEDULING SOFTWARE PROVIDED BY OWNER.
Т6	REFER TO V104 FOR TABLE TOP DEVICES AND CONNECTIONS. HOMERUN (2) HDMI AND (2) DATA CABLES TO THE EQUIPMENT CABINET 'R2'.
Τ7	COORDINATE WITH OWNER ON PLACEMENT AND ALIGNMENT OF PROJECTOR AND WHITE BOARD PAINT.
Т8	ADD 'AT' DEVICE TO THIS LOCATION AT 96" A.F.F. AND CABLE WITH (1) AT TO THE EQUIPMENT RACK 'R1'. SEPARATE THE WIRELESS MICROPHONES ANTENNAS BY A MINIMUM OF 12'-0". PLACE THE ALS ANTENNA IN THE MIDDLE OF THE WIRELESS MICROPHONE ANTENNAS.

![](_page_60_Picture_24.jpeg)

![](_page_60_Picture_25.jpeg)

![](_page_60_Picture_26.jpeg)

DIAGRAM NOTES:
DEVICE(S) IS(ARE) LOCATED ON THE E
(2) DEVICE(S) IS(ARE) LOCATED ON THE V
3 DEVICE IS LOCATED IN THE EQUIPMEN
(4) REFER TO FLOOR PLAN FOR EXACT LO
5 PROVIDE A CONTROL CABLE FROM TH RECEIVER TO THE REAR OF THE DISPI
DATA CONNECTIONS LOCATED IN FUR BOX.
DIAGRAM (V

1

## D

δ A

![](_page_61_Figure_13.jpeg)

![](_page_61_Figure_14.jpeg)

![](_page_61_Figure_15.jpeg)

![](_page_61_Figure_16.jpeg)

CONSTRUCTION NEXUS PROJ. #:17179CHECKED BY:CheckerDRAWN BY:AuthorDATE:04/14/18

AUDIOVISUAL

**ET501**