

Department of Building & Grounds Architectural Services Division

City of Baton Rouge Parish of East Baton Rouge

P.O. Box 1471 Baton Rouge, Louisiana 70821 225 389-4694 Voice 225 389-4704 Fax

#### ADDENDUM #2

March 27, 2025

#### **TO ALL BIDDERS**

#### PROJECT: PSC H2 Interior Renovation for Health Unit CITY PARISH PROJECT NO. 21-ASC-CP-1564

The following revisions shall be incorporated in and take precedence over any conflicting part of the original contract documents.

- 1. Clarification: **EBE goal percentage** established by EBR Parish Purchasing office is 8%.
- Replace "Louisiana Uniform Public Work Bid Form, Page LSQ 1 of 4" with attached revised "Louisiana Uniform Public Work Bid Form, Page LSQ 1 of 4" to include Alternate No. 1 with this Addendum.
- 3. Project Manual, Sample Agreement, Section 1.1, "Contract Time": delete "**One Hundred and Fifty (150) calendar days**", substitute "**One Hundred and Eighty (180) calendar days**".
- 4. Specification Section 01 0000, "City Parish Summary of Work", Section 1.02, "SITE and PREMISES", subsection C, "On-Site Work Hours": delete "2. Saturday 7am sunset is acceptable.", substitute "2. Saturday No work permitted unless permission has been obtained in writing from the Director of Buildings and Grounds or their authorized representative."
- 5. See attached Addendum prepared by Fusion Architects, APC and dated March 27, 2025 (66 pages).

The following revisions shall be incorporated in and take precedence over any conflicting part of the original contract documents.

FAILURE TO INDICATE RECEIPT OF THIS ADDENDUM ON BID FORM MAY BE CAUSE FOR THE BID TO BE REJECTED

Rob Gray, AIA, LEED AP BD+C, Interim Chief Architect Architectural Services Division 1100 Laurel Street, Rm. 227 Baton Rouge, LA 70802

### LOUISIANA UNIFORM PUBLIC WORK BID FORM

TO: City of Baton Rouge Parish of East Baton Rouge Purchasing Division Room 826 City Hall 222 St Louis St Baton Rouge, LA 70802 **BID FOR:** PSC H2 Interior Renovation for Health Unit 9050 Airline Hwy, Ste 200, Baton Rouge, LA 70815

City-Parish Project No. 21-ASC-CP-1564

The undersigned bidder hereby declares and represents that she/he; a) has carefully examined and understands the Bidding Documents, b) has not received, relied on, or based his bid on any verbal instructions contrary to the Bidding Documents or any addenda, c) has personally inspected and is familiar with the project site, and hereby proposes to provide all labor, materials, tools, appliances and facilities as required to perform, in a workmanlike manner, all work and services for the construction and completion of the referenced project, all in strict accordance with the Bidding Documents prepared by: Fusion Architects and dated: <u>February 27, 2025</u>.

Bidders must acknowledge all addenda. The Bidder acknowledges receipt of the following **ADDENDA**: (Enter the number the Designer has assigned to each of the addenda that the Bidder is acknowledging)

**TOTAL BASE BID**: For all work required by the Bidding Documents (including any and all unit prices designated "Base Bid" \* but not alternates) the sum of:

Dollars (\$

)

**ALTERNATES**: For any and all work required by the Bidding Documents for Alternates including any and all unit prices designated as alternates in the unit price description.

Alternate No. 1: [INSERT SCOPE or Not Applicable] for the lump sum <u>ADD</u> of:		
Replace five (5) existing chilled water air handlers (two on roof and three in mezzanine)	Dollars	(\$)
including in associated appartenances as shown in the construction accuments.		(†)
Alternate No. 2: [INSERT SCOPE or Not Applicable]		
	Dollars	(\$)
Alternate No. 3: [INSERT SCOPE or Not Applicable]		
	Dollars	(\$)
NAME OF BIDDER:		
ADDRESS OF BIDDER:		
LOUISIANA CONTRACTOR'S LICENSE NUMBER:		
TITLE OF AUTHORIZED SIGNATORY OF BIDDER:		
SIGNATURE OF AUTHORIZED SIGNATORY OF BIDDER **:		
DATE:		

#### THE FOLLOWING ITEMS ARE TO BE INCLUDED WITH THE SUBMISSION OF THIS LOUISIANA UNIFORM PUBLIC WORK BID FORM:

\* The <u>Unit Price Form</u> shall be used if the contract includes unit prices. Otherwise it is not required and need not be included with the form. The number of unit prices that may be included is not limited and additional sheets may be included if needed.

\*\* A CORPORATE RESOLUTION OR WRITTEN EVIDENCE of the authority of the person signing the bid for the public work as prescribed by LA R.S. 38:2212(B)(5).

BID SECURITY in the form of a bid bond, certified check or cashier's check as prescribed by LA RS 38:2218(A) is attached to and made a part of this bid.



#### ADDENDUM NO. 2 03/27/2025

#### EAST BATON ROUGE PARISH PUBLIC SAFETY COMPLEX H2 INTERIOR RENOVATION FOR HEALTH UNIT CITY PARISH PROJECT NO. 21-ASC-CP-1564 9050 AIRLINE HWY BATON ROUGE, LA 70815

#### BID DATE: Tuesday, April 1, 2025 at 2:00 PM

The following additions, deletions, modifications, or clarifications shall be made to the appropriate sections of the plans and specifications and shall become a part of the contract documents. Bidders shall acknowledge receipt of this Addendum in the space provided on the Bid form.

#### **GENERAL**

- 1. See the attached Sheet "ADD-01 Security Access Plan" for limits of access throughout construction, accessible stairs to the second floor, and required temporary partitions. Security partitions are to be included in the base bid, constructed of 2x wood framing with either plywood or gyp sheathing. All required egress doors and pathways are to be maintained and protected throughout construction. At all doors called to be locked, means of locking shall be the responsibility of the contractor and does not damage existing door.
- 2. See the attached Sheet "SK-1 Staging Plan" for the allotted material staging, parking and dumpster locations. Contractor may utilize demolition chutes from the 2<sup>nd</sup> floor by the removal (and reinstallation) of existing windows. Any removed windows are to be reinstalled, receive new backer rod and caulk at both the interior and exterior prior to completion. Contractors should be aware other projects are undergoing construction on this site simultaneously and it will be their responsibility to secure all materials, tools, equipment, etc.
- 3. Clarification: All demolition materials are to be removed from the site unless noted otherwise, this includes the demolition and removal of all copper piping or sheeting at the existing MRI room by the contractor.
- 4. Clarification: It is the intent that all existing (2 hr) spray fireproofing at the primary steel structure is to remain. Any missing or removed fireproofing during demolition is to be reinstalled prior to enclosing with new construction.
- 5. Clarification: Typical at all windows & storefront perimeter caulking contractor to remove existing perimeter caulking in preparation of new wall finish, install new wall finish and re-caulk perimeter at both sides of interior located window systems and at the interior perimeter of existing exterior windows. No work to be performed at the exterior of the building at windows.
- 6. Clarification: Existing elevators are currently not in working order. It is the contractor's responsibility to include the coordination of removal and deliveries accordingly.
- 7. Clarification: Sheet A-600 at both New and Existing doors, all hardware indicated with a "dot" as shown in the door schedule is to be new hardware See attached and included Door Hardware Specification.

- 8. Clarification: At all existing millwork to remain and receive new finish, existing veneers and finishes may remain if sound and suitable to receive new finish. Any damaged, delaminated or otherwise unsuitable substrates will not be accepted. Existing to remain finishes are to be prepped accordingly to receive new finishes.
- 9. Clarification: At all areas requiring demolition of existing medical gas, medical gas is to be cut, capped and certified.
- 10. Clarification: Propress and Mega Press fittings are not approved for use.
- 11. Clarification: At 2" and below, copper pipe at VAV mains are allowed.

#### SPECIFICATIONS

- 1. Add Specification "Section 08 71 00 Door Hardware" issued in this addendum.
- 2. Specification Section 11 31 00 Residential Appliances; 2.1.A Refrigerator; Item 1: Omit "seven (7)" and replace with "five (5)".

#### DRAWINGS

- 1. Sheet A-100, Replace enlarged plan "A14 1<sup>st</sup> Floor New Construction Plan" with attached Sheet A-100, revised enlarged plan "A14 1<sup>st</sup> Floor New Construction Plan" modified lead wall configuration in X-ray Room 491.
- 2. Clarification: Areas highlighted in the attached Sheets "ADD-02 and ADD-03 Wallpaper Location Plans", notates areas where walls with wallpaper needs to be removed. Walls to be cleaned, floated as required for smooth finish, prepped, primed and painted as called for in the finish schedule.
- 3. Sheet D-202, Room 286 "Men M.D. Lockers" and Room 283 "Women M.D. Lockers" Existing lockers are to be salvaged, relocated, installed and rekeyed in new "Breakroom 419" at project South wall.
- Replace existing sheets M-104, M-105, M-106, M-112, M-200, E0.0, E1.0, E1.1, E1.2, E1.3, E1.4, E2.0, E2.1, E2.2, E2.3, E2.4, E3.0, E3.1, E3.2, E.3.3, E4.0, E4.1, E4.2, E4.3, E5.0, E5.1, and E6.0 with the attached sheets M-104, M-105, M-106, M-112, M-200, E0.0, E1.0, E1.1, E1.2, E1.3, E1.4, E2.0, E2.1, E2.2, E2.3, E2.4, E3.0, E3.1, E3.2, E.3.3, E4.0, E4.1, E4.2, E4.3, E5.0, E5.1, and E6.0 issued in this addendum.
- 5. Add Sheet E5.2 to the contract documents.

#### PRIOR APPROVALS

The following list of items are approved for MANUFACTURER and/or TRADE NAME ONLY for use in this Project. Approval of these items by their inclusion in the following SHALL NOT relieve the manufacturer, supplier, contractor, or subcontractor from compliance with quality, performance, shapes, or appearance desires as set forth in the original Plans and Specifications. The Architect may, upon receipt of the Shop Drawings, disapprove any items based on quality, performance, shape and/or appearance submitted.

<u>Section</u>

10 28 00 - Toilet, Bath & Laundry Accessories Sanif

Manufacturer Saniflow Corp. <u>Product</u> Hand Dryer Enclosed: **Reference Sheets:** Sheet "ADD-01 Security Access Plan" Sheets "ADD-02 and ADD-03 Wallpaper Location Plans" Sheet "SK-1 Staging Plan" Drawings: Sheet A-100: Revised Detail "A14 – 1st Floor New Construction Plan" Sheet M-104 Sheet M-105 Sheet M-106 Sheet M-112 Sheet M-200 Sheet E0.0 Sheet E1.0 Sheet E1.1 Sheet E1.2 Sheet E1.3 Sheet E1.4 Sheet E2.0 Sheet E2.1 Sheet E2.2 Sheet E2.3 Sheet E2.4 Sheet E3.0 Sheet E3.1 Sheet E3.2 Sheet E.3.3 Sheet E4.0 Sheet E4.1 Sheet E4.2 Sheet E4.3 Sheet E5.0 Sheet E5.1 Sheet E5.2 Sheet E6.0 Specification: Section 08 71 00 - Door Hardware









NERAL NOTES	-	11111111
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AL BOXES, AND WIRING TO REMAIN INTACT, UNLESS APROYED BY ELECTRICAL ED. O REMAIN. SORIES TO BE REMOVED, PATCH, FLOAT, SAND, & PAINT ALL WALLS, TYP. FXTURES, SUPPLY VENTS AND RETURN GRILLS TO BE REMOVED. DEMOLITION OF LING SHALL BE COORDINATED WITH MEP DRAWINGS. UNTAKINS TO BE REMOVED, RE: PLUMBING CONTRACTOR BELOVE ALL COORDE AND EMBES CALLED TO BE REMOVED AND ALL	M	Additional and the representation of the second sec
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	F	CITY OF BATON ROL PUBLIC SAFETY CO 42 BUILDING RENOVATION FOR H 9000 AIRLINE HIGHWAY BATON ROUGE, LOUISIAN
	C	FROJECT NO.         29-001-24           FHASE:         CONSTRUCTION DOCUMENTS           DATE:         09.26.2024
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Dept of Buildings and Grounds Architectural Services Division 1100 Laurel Street, Rm. 227 Baton Rouge, LA 70802 p. (225) 389–4594 f. (225) 389–4704









## GENERAL MECHANICAL NOTES:

- 1. PROVIDE FIRE DAMPER & ACCESS PANEL AT ALL RATED WALL DUCT PENETRATIONS. 2. FIRE CAULK AROUND ALL DOMESTIC AND HEATING HOT WATER PENETRATIONS THROUGH RATED WALL
- 3. ALL EXPOSED DUCTWORK SHALL BE DOUBLE WALL, GALVANIZED SHEET METAL WITH 1" INSULATION. PRIME KEYPLAN AREA 1 AND PAINT DUCTWORK ACCORDING TO ARCHITECT
- 4. ALL EXPOSED HEATING HOT WATER PIPING SHALL BE STRIPPED OF EXISTING INSULATION AND REPLACED
- WITH 1<sup>1</sup>/<sub>2</sub> FOAM GLASS INSULATION AND WRAPPED IN PVC JACKET. PROVIDE LABEL AND DIRECTIONAL ARROWS EVERY 10 FT. COORDINATE COLOR OF JACKET WITH ARCHITECT PRIOR TO CONSTRUCTION.
- 5. ALL EXISTING THERMOSTATS IN THE CONSTRUCTION AREA SHALL BE REPLACED WITH NEW DDC THERMOSTATS.
- INTERLOCK WITH EXISTING BMS SYSTEM. 6. PROVIDE TEST AND BALANCE REPORT ON ALL NEW & EXISTING AIR HANDLING UNITS, VAV BOXES, REHEAT COILS, PACKAGED UNITS, EXHAUST FANS, SUPPLY AIR AIR GRILLES, ETC.
- 7. CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING EXISTING EXISTING CONDITIONS PRIOR TO BID. CONTRACTOR SHALL OFFSET/RE-ROUTE ALL EXISTING ELECTRICAL, PLUMBING, AND FIRE PROTECTION EQUIPMENT IN CEILING AS REQUIRED TO ACCOMMODATE NEW MECHANICAL LAYOUT. THIS INCLUDES BUT IS
- NOT LIMITED TO CONDUIT, WIRING, JUNCTION BOXES, DOMESTIC WATER PIPING, HEATING AND CHILLED WATER PIPING, SANITARY SEWER/VENT PIPING, SPRINKLER PIPING, SPRINKLER HEADS, ETC. 8. PROVIDE TEST AND BALANCE REPORT ON ALL NEW VAV BOXES, REHEAT COILS, EXHAUST FANS, SUPPLY AIR
- GRILLES, ETC. 9. ALL EXISTING THERMOSTATS IN THE CONSTRUCTION AREA SHALL BE REPLACED WITH NEW DDC THERMOSTATS.
- INTERLOCK WITH EXISTING JOHNSON CONTROLS BMS SYSTEM. ALL NEW CONTROLS MUST TIE-IN SEAMLESSLY. 10. ALL DUCTWORK UPSTREAM OF VAV BOXES SHALL BE MEDIUM PRESSURE. REFER TO SPECIFICATIONS.

## MECHANICAL PLAN NOTES:

- AIR EXTRACTOR AND MANUAL VOLUME DAMPER WITH STAND OFF BRACKET AND LOCKING QUADRANT, TYPICAL 1 AIK EXTRACTOR AND MANOR VOLOME DAME DAME TO TAKE-OFF. SEE AIR EXTRACTOR DETAIL.
- CONTRACTOR SHALL VERIFY EXACT LOCATION WITH ARCHITECT PRIOR TO INSTALLATION. PROGRAMMABLE
- THERMOSTAT/HUMIDISTATS SHALL BE MOUNTED AT 60" A.F.F. VAV BOX WITH HOT WATER REHEAT, TYPICAL. MAINTAIN A MINIMUM OF 1.5 TIMES THE INLET DIAMETER STRAIGHT RUN OF HARD ROUND DUCT TO INLET ON BOX. MAINTAIN 4'-O" CLEAR IN FRONT OF VAV BOX CONTROL PANEL. REFER TO VAV BOX CLEARANCE DETAIL. PROVIDE ACCESS PANEL(S) AS REQUIRED COORDINATE WITH ARCHITECT FOR EXACT LOCATION AND STYLE OF PANEL.
- (4) PROVIDE TURNING VANES IN ALL LOW PRESSURE DUCTWORK ELBOWS 45 DEGREES OR GREATER DOWNSTREAM OF VAV BOXES.
- 5 CONTRACTOR TO ROUTE EXHAUST DUCT TO ROOF-MOUNTED EXHAUST FAN. PROVIDE BACKDRAFT DAMPER WITH FAN. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL TRANSITIONS NECESSARY AND SHALL MAINTAIN A MINIMUM OF 12'-0" CLEAR BETWEEN ANY EXHAUST AND FRESH AIR INTAKE, NO EXCEPTIONS.
- (6) INTERNALLY LINED TRANSFER DUCT INTO RETURN AIR PLENUM ABOVE CEILING.
- (7) NEW CHILLED WATER BUILT-UP AIR HANDLER WITH NEW DDC CONTROLS. CONTROLS SHALL BE TIED INTO EXISTING BUILDING EMS SYSTEM. EXISTING CONCRETE PAD SHALL BE EXTENDED AS NECESSARY TO PROVIDE 6" CLEAR ON ALL SIDES OF UNIT. PROVIDE STAINLESS STEEL DRAIN PAN WITH FLOAT SWITCH UNDER ENTIRE UNIT. DRAIN PAN MUST EXTEND 6" ON ALL SIZES OF UNIT. CONTRACTOR SHALL BREAK DOWN AIR HANDLING UNIT INTO SECTIONS SMALL ENOUGH TO FIT THROUGH DOORS AND HALLWAYS TO FULLY ALLOW UNIT INTO THE BUILDING AND RESPECTIVE MECHANICAL ROOM DOORS. ROUTE NEW 1-1/2" INSULATED COPPER CONDENSATE DRAIN LINE TO NEAREST FLOOR DRAIN.
- (8) MOTORIZED DAMPER IN DUCT. DAMPER SHALL CLOSE WHEN VAV BOX IS IN HEATING MODE AND OPEN WHEN VAV BOX IS IN COOLING MODE.
- (9) CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFYING EXISTING SUPPLY/RETURN AIR DUCT SIZE AND TRANSITIONING TO DUCTS AS REQUIRED. CONNECTION TO EXISTING SHALL BE MADE BELOW FLOOR. RÉPLACE
- EXISTING FIRE DAMPER AS REQUIRED.

MECHANICAL LEGEN	ND	
SYMBOL	ABBREVIATION	DECRYPTION
	NTS	NOT TO SCALE
	AHU	AIR HANDLING UNIT
	CU	CONDENSING UNIT
	EF	EXHAUST FAN
	CFM	CUBIC FEET PER MINUTE
	RA	RETURN AIR
	FA	FRESH AIR
	SA	SUPPLY AIR
	EA	EXHAUST AIR
	B-250	DIFFUSER IDENTIFICATION, NECK SIZE-CFM
1	_	MECHANICAL PLAN NOTE
	_	24"X24" R/A GRILLE W/ FILTER AND FILTER RACK
	OBD	OPPOSED BLADE DAMPER
0	_	24"X24" SQUARE LOUVERED CEILING DIFFUSER
(Ţ)	-	THERMOSTAT
M	-	MOTORIZED OPPOSED BLADE DAMPER
10"x10"ø	_	SPIRAL DOUBLE WALL FLAT OVAL DUCT
10"x10"	_	RECTANGULAR DUCT





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MECHANICAL LEG	END	
SYMBOL	ABBREVIATION	DECRYPTION
	NTS	NOT TO SCALE
	AHU	AIR HANDLING UNIT
	CU	CONDENSING UNIT
	EF	EXHAUST FAN
	CFM	CUBIC FEET PER MINUTE
	RA	RETURN AIR
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1	-	MECHANICAL PLAN NOTE
	-	24"X24" R/A GRILLE W/ FILTER
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10"x10"ø	-	SPIRAL DOUBLE WALL FLAT OVAI
10"x10"	-	RECTANGULAR DUCT



# GENERAL MECHANICAL NOTES:

- 1. PROVIDE FIRE DAMPER & ACCESS PANEL AT ALL RATED WALL DUCT PENETRATIONS. 2. FIRE CAULK AROUND ALL DOMESTIC AND HEATING HOT WATER PENETRATIONS THROUGH RATED WALL ASSEMBLY. 3. ALL EXPOSED DUCTWORK SHALL BE DOUBLE WALL, GALVANIZED SHEET METAL WITH 1" INSULATION. PRIME
- AND PAINT DUCTWORK ACCORDING TO ARCHITECT. 4. ALL EXPOSED HEATING HOT WATER PIPING SHALL BE STRIPPED OF EXISTING INSULATION AND REPLACED WITH 1<sup>1</sup>/<sub>2</sub> FOAM GLASS INSULATION AND WRAPPED IN PVC JACKET. PROVIDE LABEL AND DIRECTIONAL ARROWS EVERY 10 FT. COORDINATE COLOR OF JACKET WITH ARCHITECT PRIOR TO CONSTRUCTION. 5. ALL EXISTING THERMOSTATS IN THE CONSTRUCTION AREA SHALL BE REPLACED WITH NEW DDC THERMOSTATS. INTERLOCK WITH EXISTING BMS SYSTEM. 6. PROVIDE TEST AND BALANCE REPORT ON ALL NEW & EXISTING AIR HANDLING UNITS, VAV BOXES, REHEAT
- COILS, PACKAGED UNITS, EXHAUST FANS, SUPPLY AIR AIR GRILLES, ETC. 7. CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING EXISTING EXISTING CONDITIONS PRIOR TO BID. CONTRACTOR SHALL OFFSET/RE-ROUTE ALL EXISTING ELECTRICAL, PLUMBING, AND FIRE PROTECTION EQUIPMENT IN CEILING AS REQUIRED TO ACCOMMODATE NEW MECHANICAL LAYOUT. THIS INCLUDES BUT IS NOT LIMITED TO CONDUIT, WIRING, JUNCTION BOXES, DOMESTIC WATER PIPING, HEATING AND CHILLED WATER PIPING, SANITARY SEWER/VENT PIPING, SPRINKLER PIPING, SPRINKLER HEADS, ETC. 8. PROVIDE TEST AND BALANCE REPORT ON ALL NEW VAV BOXES, REHEAT COILS, EXHAUST FANS, SUPPLY AIR GRILLES, ETC.
- 9. ALL EXISTING THERMOSTATS IN THE CONSTRUCTION AREA SHALL BE REPLACED WITH NEW DDC THERMOSTATS. INTERLOCK WITH EXISTING JOHNSON CONTROLS BMS SYSTEM. ALL NEW CONTROLS MUST TIE-IN SEAMLESSLY. 10. ALL DUCTWORK UPSTREAM OF VAV BOXES SHALL BE MEDIUM PRESSURE. REFER TO SPECIFICATIONS.

# MECHANICAL PLAN NOTES:

- AIR EXTRACTOR AND MANUAL VOLUME DAMPER WITH STAND OFF BRACKET AND LOCKING QUADRANT, TYPICAL AIR EXTRACTOR AND MANUAL VOLUME DAME IN MANUAL FOR ALL DUCT TAKE-OFF. SEE AIR EXTRACTOR DETAIL.
- 2 CONTRACTOR SHALL VERIFY EXACT LOCATION WITH ARCHITECT PRIOR TO INSTALLATION. PROGRAMMABLE THERMOSTAT/HUMIDISTATS SHALL BE MOUNTED AT 60" A.F.F.
- 3 VAV BOX WITH HOT WATER REHEAT, TYPICAL. MAINTAIN A MINIMUM OF 1.5 TIMES THE INLET DIAMETER STRAIGHT RUN OF HARD ROUND DUCT TO INLET ON BOX. MAINTAIN 4'-0" CLEAR IN FRONT OF VAV BOX CONTROL PANEL. REFER TO VAV BOX CLEARANCE DETAIL. PROVIDE ACCESS PANEL(S) AS REQUIRED COORDINATE WITH ARCHITECT FOR EXACT LOCATION AND STYLE OF PANEL.
- PROVIDE TURNING VANES IN ALL LOW PRESSURE DUCTWORK ELBOWS 45 DEGREES OR GREATER DOWNSTREAM OF VAV BOXES.
- CONTRACTOR TO ROUTE EXHAUST DUCT TO ROOF-MOUNTED EXHAUST FAN. PROVIDE BACKDRAFT DAMPER WITH FAN. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL TRANSITIONS NECESSARY AND SHALL MAINTAIN A MINIMUM OF 12'-0" CLEAR BETWEEN ANY EXHAUST AND FRESH AIR INTAKE, NO EXCEPTIONS.
- 6 CONTRACTOR SHALL MODIFY EXISTING WALL ABOVE CEILING AS REQUIRED TO ACCOMODATE INSTALLATION OF TRANSFER DUCT.
- (7) NEW CHILLED WATER BUILT-UP AIR HANDLER WITH NEW DDC CONTROLS. CONTROLS SHALL BE TIED INTO EXISTING BUILDING EMS SYSTEM. EXISTING CONCRETE PAD SHALL BE EXTENDED AS NECESSARY TO PROVIDE 6" CLEAR ON ALL SIDES OF UNIT. PROVIDE STAINLESS STEEL DRAIN PAN WITH FLOAT SWITCH UNDER ENTIRE UNIT. DRAIN PAN MUST EXTEND 6" ON ALL SIZES OF UNIT. CONTRACTOR SHALL BREAK DOWN AIR HANDLING UNIT INTO SECTIONS SMALL ENOUGH TO FIT THROUGH DOORS AND HALLWAYS TO FULLY ALLOW UNIT INTO THE BUILDING AND RESPECTIVE MECHANICAL ROOM DOORS. ROUTE NEW 1-1/2" INSULATED COPPER CONDENSATE DRAIN LINE TO NEAREST FLOOR DRAIN.
- CABINET TYPE EXHAUST FAN SUSPENDED FROM STRUCTURE. REFER TO SCHEDULE FOR SIZE AND MODEL. PROVIDE BACKDRAFT DAMPER AT EACH EXHAUST FAN.
- CONTRACTOR SHALL MAINTAIN A MINIMUM OF 12'-0" CLEAR BETWEEN ANY EXHAUST AND FRESH AIR INTAKE, NO EXCEPTIONS. ROUTE EXHAUST/INTAKE LOUVER. GREENHECK EHV-550 OR APPROVED EQUAL. SIZE AS SHOWN ON PLAN. MODIFY EXISTING PENETRATION OR PROVIDE NEW. CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFYING EXISTING SUPPLY/RETURN AIR DUCT SIZE AND TRANSITIONING TO DUCTS AS REQUIRED. CONNECTION TO EXISTING SHALL BE MADE BELOW FLOOR. REPLACE EXISTING FIRE DAMPER AS REQUIRED.

HANICAL LEGEN	ND	
SYMBOL	ABBREVIATION	DECRYPTION
	NTS	NOT TO SCALE
	AHU	AIR HANDLING UNIT
	CU	CONDENSING UNIT
	EF	EXHAUST FAN
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0	_	24"X24" SQUARE LOUVERED CEILING DIFFUSER
T	_	THERMOSTAT
M	_	MOTORIZED OPPOSED BLADE DAMPER
10"x10"ø	-	SPIRAL DOUBLE WALL FLAT OVAL DUCT
10"x10"	_	RECTANGULAR DUCT

![](_page_12_Picture_17.jpeg)

![](_page_12_Picture_18.jpeg)

![](_page_13_Figure_0.jpeg)

![](_page_13_Figure_1.jpeg)

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1 MECHANICAL PLAN - FIRST FLOOR SCALE: 1/4" = 1'-0" RE:

MECHANICAL LEGEN	ND	
SYMBOL	ABBREVIATION	DECRYPTION
	NTS	NOT TO SCALE
	AHU	AIR HANDLING UNIT
	CU	CONDENSING UNIT
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	B-250	DIFFUSER IDENTIFICATION, NECK SIZE-CFM
1	_	MECHANICAL PLAN NOTE
	_	24"X24" R/A GRILLE W/ FILTER AND FILTER RACK
	OBD	OPPOSED BLADE DAMPER
0	_	24"X24" SQUARE LOUVERED CEILING DIFFUSER
T	_	THERMOSTAT
M	-	MOTORIZED OPPOSED BLADE DAMPER

1 2 3 4 5 6 7 8 9 10 11 12 13 16

9

10

11

![](_page_13_Figure_5.jpeg)

1 HYDRONIC PIPING PLAN - FIRST FLOOR SCALE: 1/4" = 1'-0" RE:

12

13

1. CONTRACTOR MUST PROVIDE ACCESS PANELS FOR ALL EQUIPMENT, VALVES,

CEILING.

(1)

# 

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# **GENERAL HYDRONIC PIPING NOTES:**

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DAMPERS, ETC. ABOVE HARD CEILINGS OR RELOCATED TO ACCESSIBLE

# HYDRONIC PIPING PLAN NOTES:

HIDRONIC FIFING	LEGEND	
SYMBOL	ABBREVIATION	DESCRIPTION
	CWS	CHILL WATER SUPPLY PIPE
	CWR	DOMESTIC HOT WATER PIPE
	HWS	DOMESTIC HOT WATER PIPE
	HWR	DOMESTIC HOT WATER PIPE
C+	-	PIPE DOWN
t	-	PIPE ELL
,†,	-	PIPE TEE
	_	FULL SIZE BALL VALVE (SHUT OFF)
	-	PLUMBING PLAN NOTE
•	_	POINT OF CONNECTION

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THOMPSON LUKE & ASSOCIATES, L.L.C. 10705 RIEGER RD., STE 101 BATON ROUGE, LA 70809 (225)293-9474 TLA PROJECT #25-002 Frank Saville Thompson - License No. <u>28854</u> Landon David Burns - License No. <u>46484</u>

![](_page_13_Figure_18.jpeg)

BOX	MIN/MAX CFM	INLET	MAX	HEATING	BTUH	GPM	WATER	R TEMP	WATER	MIN. #	PIPE	MANUF/
VAV-1-1	315/1050	12"ø	.5"	525	22,680	2.3	160°F	140°F	6'	2	<u>3"</u> 4	NAILOR 30RW, TITUS HWC-
VAV-1-2	297/990	12"¢	5"	495 ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	21,384	2.2~	160°E	140°F	je no	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		NAILOR 30RW, TITUS HWC-
VAV-1-3	5 150/500	7"ø	.5"	250	10,800	1.1	160°F	140°F	6'	2	3" 4	NAILOR 30RW, TITUS HWC-
VAV-1-4	174/580	8"ø	.5"	290	12,528	1.3	160°F	140°F	6'	2	3" 4 3"	NAILOR 30RW, TITUS HWC-
	66/220	8"Ø	.5"	325	4 752		160°F	140°F		$\frac{2}{2}$	<u> </u>	NAILOR JURW, TITUS HWC-
VAV-1-7	180/600	8"ø	.5	300	12,960	1.3	160°F	140°F_	6'	2	4	NAILOR JORW, TITUS HWC-
VAV-1-8	3 150/500	7"ø	.5"	250	10,800	1.1	160°F	140°F	6'	2	3" 4	NAILOR 30RW, TITUS HWC-
VAV-1-9	180/600	8"ø	.5"	300	12,960	1.3	160°F	140°F	6'	2	3″ 4	NAILOR 30RW, TITUS HWC-
VAV-1-1	0 338/1125	12 <b>"</b> ø	.5"	562.5	24,300	2.5	160°F	140°F	6'	2	3" 4	NAILOR 30RW, TITUS HWC-
VAV-1-1	1 180/600	8"ø	.5"	300	12,960	1.3	160°F	140°F	6'	2	3" 4 3"	NAILOR 30RW, TITUS HWC-
VAV-1-1.	150/500	7"ø	5"	250	10.800	1.1	160°F	140°F	6'	2	<u>3</u> "	NAILOR JORW, TITUS HWC-
VAV-2-2	150/500	7"ø	.5"	250	10,800	1.1	160°F	140°F	6'	2	4 <u>3</u> " 4	NAILOR 30RW, TITUS HWC-
VAV-2-3	5 173/575	8"ø	.5"	287.5	12,420	1.3	160°F	140°F	6'	2	<u>3</u> " 4	NAILOR 30RW, TITUS HWC-
VAV-2-4	165/550	7"ø	.5"	275	11,880	1.2	160°F	140°F	6'	2	3" 4	NAILOR 30RW, TITUS HWC-
VAV-2-5	135/450	7"ø	.5"	225	9,720	1	160°F	140°F	6'	2	3" 4 3"	NAILOR 30RW, TITUS HWC-
VAV-2-6	120/400	7″ø 7"ø	.5″	200	0,640	0.9	160°F	140°F	6' 6'	2	4 <sup>7</sup> <u>3</u> "	NAILOR JORW, IIIUS HWC-
VAV-2-8	131/435	7"ø	.5"	217.5	9,396	1	160°F	140°F	6'	2	$\frac{4}{\frac{3}{4}}$	NAILOR 30RW. TITUS HWC-
VAV-2-9	210/700	8"ø	.5"	350	15,120	1.6	160°F	140°F	6'	2	3" 4	NAILOR 30RW, TITUS HWC-
VAV-2-1	0 210/700	8"ø	.5"	350	15,120	1.6	160°F	140°F	6'	2	<u>3"</u> 4	NAILOR 30RW, TITUS HWC-
VAV-2-1	1 306/1020	12 <b>"</b> ø	.5"	510	22,032	2.3	160°F	140°F	6'	2	3" 4	NAILOR 30RW, TITUS HWC-
VAV-2-1	2 120/400	7"ø	.5"	200	8,640	0.9	160°F	140°F	6'	2	3" 4 3n	NAILOR 30RW, TITUS HWC-
VAV = 2 = 1	<u>3 144/480</u> 4 219/730	/"ø 8"ø	.5"	240 365	10,368	1.1	160°F	140°F	6 <sup>°</sup>	2	<u>4</u> <u>3</u> "	NAILOR JORW, TITUS HWG-
VAV 2 1	5 450/1500	12 <b>"</b> ø	.5"	750	32,400	3.3	160°F	140°F	6'	2	4 <u>3</u> " <u>4</u>	NAILOR 30RW, TITUS HWC-
VAV-2-1	6 75/250	6.Ӣ	5"	 								NAILOR 30RW, TITUS HWC-
VAV-2-1	7 141/470	7"ø	.5"	235	10,152	1.1	160°F	140°F	6'	2	<u>3"</u> 4	NAILOR 30RW, TITUS HWC-
VAV-2-18	8 270/900	10"ø	.5"	450	19,440	2	160°F	140°F	6'	2	3" 4	NAILOR 30RW, TITUS HWC-
VAV-2-1	9 165/550	7"ø	.5"	275	11,880	1.2	160°F	140°F	6'	2	3" 4 3"	NAILOR 30RW, TITUS HWC
VAV-2-2	1 141/470	/ Ø 7"ø	.5	235	10,152	1.1	160 F	140 F	6'	2	<u> </u>	NAILOR JORW, TITUS HWC-
VAV-2-2	2 141/470	7"ø	.5"	235	10,152	1.1	160°F	140°F	6'	2	4 <u>3</u> " 4	NAILOR 30RW, TITUS HWC-
VAV-2-2	3 207/690	8"ø	.5"	345	14,904	1.5	160°F	140°F	6'	2	3" 4	NAILOR 30RW, TITUS HWC-
VAV-2-2	4 128/425	7"ø	.5"	212.5	9,180	1	160°F	140°F	6'	2	<u>3</u> " 4	NAILOR 30RW, TITUS HWC-
VAV-3-1	264/880	10 <b>"</b> ø	.5"	440	19,008	2.0	160°F	140°F	6'	2	3" 4	NAILOR 30RW, TITUS HWC-
VAV-3-2	240/800	10"ø	.5"	400	17,280		160°F	140°F	6'		3"	NAILOR 30RW, TITUS HWC-
VAV-3-4	144/480	7"ø	5"	240	10.368	1.1	160°F	140°F	6'	2	<u>3"</u>	NAILOR 30RW, TITUS HWC-
VAV-3-5	201/670	8"ø	.5"	335	14472	1.5	160°F	140°F	6'	2	4 33" 44	NAILOR 30RW, TITUS HWC-
VAV-3-6	233/775	10 <b>"</b> ø	.5"	387.5	16,740	1.7	160°F	140°F	6'	2	<u>3"</u> 4	NAILOR 30RW, TITUS HWC-
VAV-3-7	165/550	7"ø	.5"	275	11,880	1.2	160°F	140°F	6'	2	3" 4	NAILOR 30RW, TITUS HWC-
VAV-4-1	176/585	8"ø	.5"	292.5	12,636	1.3	160°F	140°F	6'	2	3" 4 3"	NAILOR 30RW, TITUS HWC-
VAV - 4 - 2	2 210//00	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	<u> </u>	<u> </u>	8 5 3 2		160°F	140°F	6' 6'	$\frac{2}{2}$	<u>3"</u>	NAILOR 30RW, ITTUS HWC-
VAV-4-3	111/370	7 ¢	.5	185	7,992	0.9	160°F	140°F	6'	2	4 <u>3</u> "	NAILOR 30RW, TITUS HWC-
VAV-4-5	234/780	10 <b>"</b> ø	.5"	390	16,848	1.7	160°F	140°F	6'	2	4 <u>3</u> " 4	NAILOR 30RW, TITUS HWC-
VAV-4-6	342/1140	12 <b>"</b> ø	.5"	570	24,624	2.5	160°F	140°F	6'	2		NAILOR 30RW, TITUS HWC-
VAV-4-7	342/1140	12 <b>"</b> ø	.5"	570	24,624	2.5	160°F	140°F	6'	2	3" 4	NAILOR 30RW, TITUS HWC-
VAV-4-8	198/660	8"ø	.5"	330	14,256	1.5	160°F	140°F	6'	2	3" 4 3"	NAILOR 30RW, TITUS HWC-
VAV-4-9	222/740 0 261/870	10°ø 10°ø	.5 <sup>°</sup>	370 435	13,984 18 792	1.6 1 Q	160°F	140°F	6'	2	<u></u> <u>3</u> "	NAILOK SUKW, IIIUS HWC-
VAV-4-1	1 195/650	8"ø	.5	325	14,040	1.5	160°F	140°F	6'	2	4 <u>3</u> "	NAILOR 30RW, TITUS HWC-
VAV-4-1	2 174/580	8"ø	.5"	290	12,528	1.3	160°F	140°E	É	2	3"	NAILOR 30RW, TITUS HWC-
VAV-4-1	3 216/720	10 <b>"</b> ø	.5"	360	15,552	1.6	160°F	140°F	6'	2	<u>3</u> " 4	NAILOR 30RW, TITUS HWC-
VAV-4-1	4 171/570	8"ø	.5"	285	12,312	1.3	160°F	140°F	6'	2	<u>3</u> " 4	NAILOR 30RW, TITUS HWC-
VAV-4-1	5 149/495	7"ø	.5"	247.5	10,692	1	160°F	140°F	6'	2	3" 4	NAILOR 30RW, TITUS HWC-
VAV-4-1 VAV-1-1	209/695 7 153/510	8°Ø 	.5" ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	ى47.5 255	15,012		160'F	140'F	6 , ,	2	4 <u>3</u> "	NAILUK SUKW, IIIUS HWC-
VAV-4-1	B 185/615	<u></u>	.5"	307.5	13,284	<u> </u>	160°F	140°F	6'	2	<u>3"</u>	NAILOR 30RW, TITUS HWC-
VAV-4-1	9 167/555	8"ø	.5"	277.5	11,988	1.2	160°F	140°F	6'	2	3" 4	NAILOR 30RW, TITUS HWC-
VAV-4-2	0 240/800	10"ø	.5"	400	17,280	1.8	160°F	140°F	6'	2	3" 4	NAILOR 30RW, TITUS HWC-
VAV-4-2	1 240/800	10 <b>"</b> ø	.5"	400	17,280	1.8	160°F	140°F	6'	2	<u>3</u> " 4	NAILOR 30RW, TITUS HWC-
VAV-4-2	2 240/800	10"ø	.5"	400	17,280	1.8	160°F	140°F	6'	2	3" 4 z.,	NAILOR 30RW, TITUS HWC-
1/41/	ວ <u>240/800</u>	10"ø	.5″	400	17.280	1.8	160°F	140°F	6' c'	2	<u>4</u> ″ <u>3</u> "	NAILOR JORW, TITUS HWC-
VAV-4-2	4 240/800	//			, <i>z</i> ou	l <sup>1.0</sup>			0	<u>۲</u>	4	WALLON JUNW, IIIUS MWC-
VAV-4-2 VAV-4-2 VAV-4-2	4 240/800 5 240/800	10°¢	.5"	400	17,280	1.8	160°F	140°F	6'	2	<u>3</u> "	NAILOR 30RW. TITUS HWC-

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	NOTES	$\sim$
C SDR-WC	1,2,3,4	3
SDR-WC	1,2,3,4	~
C SDR-WC	1,2,3,4	}
C SDR-WC	1,2,3,4	Υ
C SDR-WC	1,2,3,4	5
C_SDR-WC	1,2,3,4	
C SDR-WC	1,2,3,4	$\left  \right\rangle$
C SDR-WC	1,2,3,4	
C SDR-WC	1,2,3,4	
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C SDR-WC	1,2,3,4	3
C SDR-WC	1,2,3,4	}
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C SDR-WC	1,2,3,4	~
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C SDR-WC	1,2,3,4	
C SDR-WC	1,2,3,4	$\sim$
C SDR-WC	1,2,3,4	}
C SDR-WC	1,2,3,4	5
C SDR-WC	1,2,3,4	
C SDR-WC	1,2,3,4	
C SDR-WC	1.2.3.4	
C SDR-WC	1,2,3,4	
C SDR-WC	1,2,3,4	
C SDR-WC	1,2,3,4	
C_SDR-WC	1,2,3,4	$\sim$
C SDR-WC	1,2,3,4	
<u></u>	<u>مرین بر میں میں میں میں میں میں میں میں میں میں</u>	$\sum_{i=1}^{n}$
C SDR-WC	1,2,3,4	کر
C SDR-WC	1,2,3,4	Í
C SDR-WC	1,2,3,4	
SDR-WC	1,2,3,4	
C SDR-WC	1,2,3,4	
C SDR-WC	1,2,3,4	
ี วมห–พบ	1,2,3,4	

					FAN			CHI	LLED V	ATER CO	DOLING COI	L						
NO.	TOTAL	CFM E.A	MIN EXT.	HP.	ELECT. SERVICE	ENT. AI DB	R °F. WB	LVG. /	AIR °F.	GPM	ENT. WATER TEMP. <sup>•</sup> F.	LVG. WATER TEMP. *F.	MIN. NO. ROWS	. MAX. FINS	CHW BRANCH	REMARKS	MANUFACTURERS	NOTES
AHU-1 (	7,800	780	3.0	10.0	480V\3ø\60Hz	75.90	65.80	54.0	53.0	61.9	45.00	55.00	<u>}</u> 8	10	3"	ROOFTOP UNIT DOWNFLOW AIR W/ PLENUM PLUG TYPE	CARRIER 39M, DAIKIN OR TRANE APPROVED EQUAL	1,2,3,4,5
AHU-2	14,700	1,470	3.0	20.0	✓ 480V\3ø\60Hz	75.90	65.80	54.0	53.0	116.6	45.00	55.00	<u>}</u> 8	10	4"	ROOFTOP UNIT DOWNFLOW AIR W/ PLENUM PLUG TYPE	CARRIER 39M, DAIKIN OR TRANE APPROVED EQUAL	1,2,3,4,5
AHU-3	16,000	1,600	2.5	25.0	480V\3ø\60Hz	75.90	65.80	54.0	53.0	126.9	45.00	55.00	8	10	4"	INDOOR UNIT DOWNFLOW AIR W/PLENUM PLUG TYPE	CARRIER 39M, DAIKIN OR TRANE APPROVED EQUAL	1,2,3,4,5
AHU-4A	8,800	880	3.0	15.0		75.90	65.80	54.0	53.0(	69.8	45.00	55.00	\$ 8	10	3"	INDOOR UNIT DOWNFLOW AIR W/PLENUM PLUG TYPE	CARRIER 39M, DAIKIN OR TRANE APPROVED EQUAL	1,2,3,4,5
AHU-4B	8,770	870	3.0	15.0	480V\3ø\60Hz	75.90	65.80	54.0	53.0	69.8	45.00	55.00	8	10	3"	INDOOR UNIT DOWNFLOW AIR W/PLENUM PLUG TYPE	CARRIER 39M, DAIKIN OR TRANE APPROVED EQUAL	1,2,3,4,5
EMARKS: 1. PR 2. MA	OVIDE HORI	ZONTAL E VELOCI	UNIT WITH VE	ERTICAL	DISCHARGE.			1					·\	turn	in name			

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SUPPLY FAN SHALL BE PLENUM "PLUG" TYPE.
 PROVIDE VARIABLE FREQUENCY DRIVE WITH UNIT.

5. PROVIDE NEW 3-WAY COOLING CONTROL VALVES FOR ALL NEW AIR HANDLERS. 

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FAN SC	CHEDUI	E								
PLAN MARK	TOTAL CFM	S.P. LOSS IN W.C.	115V INPUT WATTS OR HP	MAX. FAN RPM	DRIVE TYPE	MAXIMUM SONES/dBA	ELECTRIC SERVICE	REMARKS	NOTES	
EF-1,2	375	.25	1/30 HP	1050	DIRECT	4.5 SONES	115/1/60	GREENHECK G SERIES OR COOK APPROVED EQUAL	4,5,6,7,8	
EF-3	225	.25	1/15 HP	1420	DIRECT	3.6 SONES	115/1/60	GREENHECK G SERIES OR COOK APPROVED EQUAL	4,5,6,7,8	
EF-4	2,075	1.50	1 HP	1,224	DIRECT	11.8 SONES	208/1/60	GREENHECK USF SERIES OR COOK APPROVED EQUAL	4,5,6,7,8	
~~~~~ EF-5,9	75	.25	1/60 HP	1381	DIRECT	2.8 SONES	115/1/60	GREENHECK G SERIES OR COOK APPROVED EQUAL	4,5,6,7,8	
EF-6,7,8	75	.25	80W	616	DIRECT	1.1 SONES	115/1/60	GREENHECK SP SERIES OR COOK APPROVED EQUAL	1,2,3	

NOTES: 1. INTERLOCK EXHAUST FAN WITH LIGHT SWITCH TO WHERE FAN IS ON WHEN LIGHT SWITCH IS TURNED ON.

2. CONTRACTOR TO PROVIDE A 120V/277V TRANSFORMER WITH FAN. 3. FAN SHALL COME WITH GRAVITY TYPE BACKDRAFT DAMPER.

4. ROOF MOUNTED CENTRIFUGAL FAN WITH ROOF CURB.

7. FAN SHALL COME WITH VARIABLE SPEED MOTOR.

1 2 3 4 5 6 7 8 9 10 11 12 13 16

5. PROVIDE AND INSTALL COMBINATION STARTER & DISCONNECT WITH FAN. COORDINATE LOCATION WITH ARCHITECT & ELECTRICAL. 6. FAN SHALL BE INSTALLED WITH ALUMINUM BIRDSCREEN.

DIFFUSER SCHEDULE											
SYM.	CFM RANGE	FACE SIZE	NECK SIZE	MATERIAL	FINISH/COLOR	REMARKS					
A1	0-120	12X12	6"ø	ALUMINUM	WHITE	TITUS TMSA-AA, PRICE ASCDA, SQUARE CEILING DIFF					
Α	0-120	24x24	6"ø	ALUMINUM	WHITE	TITUS TMSA-AA, PRICE ASCDA, SQUARE CEILING DIFF					
В	120-230	24x24	8"ø	ALUMINUM	WHITE	TITUS TMSA-AA, PRICE ASCDA, SQUARE CEILING DIFF					
С	230-320	24x24	10 <b>"</b> ø	ALUMINUM	WHITE	TITUS TMSA-AA, PRICE ASCDA, SQUARE CEILING DIFF					
D	325-600	24x24	12 <b>"</b> ø	ALUMINUM	WHITE	TITUS TMSA-AA, PRICE ASCDA, SQUARE CEILING DIFF					
RA	0-2160	24"x24"	24"X24"	ALUMINUM	WHITE	TITUS 50F, PRICE APPROVED EQUAL, EGGCRATE GRILLE W/ $\frac{1}{2}$ "X1" CORE					
EA	0-2160	12"x12"	6"ø	ALUMINUM	WHITE	TITUS 50F, PRICE APPROVED EQUAL, EGGCRATE GRILLE W/ $\frac{1}{2}$ "X1" CORE					
<u>NOT</u> 1.	<u>ES:</u> CONTRACTOR APPURTENANC	SHALL COORDINATE LOCATION OF E.	DIFF W/ ARCH	HITECTURAL REFLE	ECTIVE CEILING PLAN TO	AVOID ANY CONFLICTS W/ LIGHTS, AUDIO EQUIPMENT AND OTHER CEILING					

CONTRACTOR TO PROVIDE ALL TRANSITIONS NECESSARY TO ACCOMMODATE GRILLE CONNECTION. COLOR OF DIFFUSER BY ARCHITECT. APPROVED MANUFACTURERS: TITUS, PRICE, TUTTLE & BAILEY, KRUEGER, NAILOR.

![](_page_14_Picture_16.jpeg)

![](_page_14_Figure_19.jpeg)

	<u>EI</u>	<u>ECTRICAL</u>	SYMBOL LEGEND		
ຊ	G	ENERAL		TELECOMMUN (JACKET COLOR	<b>STO BE PER THE OWNER'S STANDARDS IF APPLI</b>
		(1) A-1,3	KEYNOTE CIRCUIT TAG; PANEL AND CIRCUIT DESIGNATION AS INDICATED: F.G. PANEL "A". CIRCUIT #1.3	- <del></del>	TELECOM TERMINAL BOARD; 0'-1" THICK AC INDO GRADE, FIRE RETARDANT PLYWOOD, PAINTED AS SPECIFIED BY THE ARCHITECT OR OWNER
	<u>w</u>	RE, CONDUI	I, AND RACEWAY	#	DUPLEX DATA OUTLET; REFER TO TELECOMMUNICATIONS NOTES FOR MORE INFORMATION, PROVIDE (2) CABLES UNLESS INDI(
5			ABOVE-SLAB CONDUIT & WIRE/CABLING BELOW-SLAB CONDUIT & WIRE/CABLING:		OTHERWISE BY NUMBER ADJACENT TO SYMBOL.
		-#	3/4" MINIMUM CONDUIT SIZE UON HOMERUN TO PANEL;	₩#	WITH NO CEILING DUPLEX DATA OUTLET, AS ABOVE, MOUNTED ABC
		STRIBUTION	TICK MARKS INDICATED NUMBER OF WIRES		OTHERWISE BY NUMBER ADJACENT TO SYMBOL. DUPLEX DATA FLUSH FLOOR BOX; PROVIDE 1"C T
N	<u>  </u>		PANELBOARD, SWITCHBOARD, OR OTHER DISTRIBUTION		AN ACCESSIBLE LOCATION ABOVE CEILING, TWO CAT 6 CABLE FROM THE OUTLET TO THE TELECON TERMINAL BOARD
			WORKING SPACE AND CLEARANCES TO MEET ALL REQUIREMENTS OF NEC SECTION 110.26.	WAP	WIRELESS ACCESS POINT (BY OWNER); PROVIDE TO AN ACCESSIBLE LOCATION ABOVE CEILING, OI (1) CAT 6 CABLE FROM THE ACCESS POINT LOCAT
	G		GENERATOR REMOTE ANNUNCIATOR PANEL; PROVIDE CONDUIT/CABLING TO GENERATOR AS REQUIRED PER THE MANUFACTURER'S SPECIFICATIONS.		LEGRAND EVOLUTION 4-GANG OR APPROVED EQUIVALL BOX WITH ONE DUPLEX RECEPTACLE, ONE
	EC (P)	QUIPMENT CO ROVIDE CONDU	DNNECTIONS IT AND WIRE PER THE PANEL SCHEDULE)		HDMI OUTLET; PROVIDE 1"C, TWO (2) CAT 6 CABLE 1"C, ONE (1) CATV CABLE FROM THE BOX TO THE
м		다	FUSED SAFETY DISCONNECT SWITCH; LOCATE WITHIN SIGHT OF THE EQUIPMENT SERVED WITH 36" MINIMUM CLEAR WORKING SPACE IN FRONT OF THE SWITCH; DO NOT MOUNT DIRECTLY TO EQUIPMENT		TELECOM TERMINAL BOARD; PROVIDE CONDULT A WIRE FOR POWER PER THE PANEL SCHEDULE. LEGRAND EVOLUTION FLOOR MOUNTED (OR POK THROUGH) 4-GANG OR APPROVED EQUAL COMBO
		J	JUNCTION BOX		RECESSED FLOOR BOX WITH TWO (2) DUPLEX RECEPTACLES, FOUR (4) DATA OUTLETS (UNDER SINGLE PLATE), AND HDMI: PROVIDE 1-1/4"C TO AN
		M	JUNCTION BOX FOR MOTORIZED DAMPER		ACCESSIBLE LOCATION ABOVE CEILING, FOUR (4) CAT 6 CABLES FROM THE BOX TO THE TELECOM TERMINAL BOARD, ROUTE 1"C WITH HDMI CABLE
L		S <sup>™</sup>	MOTOR RATED SWITCH WITH THERMAL OVERLOAD; LOCATE WITHIN SIGHT OF THE EQUIPMENT SERVED; DO NOT MOUNT DIRECTLY TO EQUIPMENT; WHEN LOCATED ABOVE CEILING, MOUNT TO STRUCTURAL MEMBER NEARBY.	<b>—</b> #	FROM THE BOX TO THE TV WALL BOX IN THE SAM ROOM. PROVIDE CONDUIT AND WIRE FOR POWER PER THE PANEL SCHEDULE.
		6	ELECTRICAL MOTOR, HORSEPOWER AS NOTED	(FF) <sup>*</sup>	WALL MOUNTED LEGRAND EVOLUTION OR APPRO EQUAL FURNITURE FEED. BOX SHALL INCLUDE PO DATA. NUMBER OF DATA CABLES INDICATED BY # ADJACENT TO SYMBOL. PROVIDE 1-1/4" C. TO LOC
	<u>PC</u> (P)	OWER DEVICE ROVIDE CONDU	S IT AND WIRE PER THE PANEL SCHEDULE)		ABOVE ACCESSIBLE CEILING FOR DATA CABLING. CONDUIT/CONDUCTOR FOR POWER PER PANEL S CONTRACTOR SHALL MAKE ALL TERMINATIONS TO SYSTEMS FURNITURE PROVIDED BY OTHERS.
<			DUPLEX RECEPTACLE DUPLEX RECEPTACLE MOUNTED FLUSH TO CEILING OR MOUNTED TO STRUCTURE IN AREAS WITH NO CEILING; SUBSCRIPT (WHEN USED): CR - CORD REEL	(FF) <sup>#</sup>	FLOOR MOUNTED (OR POKE THROUGH) LEGRAND EVOLUTION OR APPROVED EQUAL FURNITURE FE SHALL INCLUDE POWER AND DATA. NUMBER OF D CABLES INDICATED BY # ADJACENT TO SYMBOL. F
		<del>o</del> #	ABOVE-COUNTER DUPLEX RECEPTACLE; MOUNT AT 4" ABOVE COUNTER OR BACKSPLASH OR 44" (WHICHEVER IS LOWER)		1-1/4" C. TO LOCATION ABOVE ACCESSIBLE CEILIN DATA CABLING. PROVIDE CONDUIT/CONDUCTOR F POWER PER PANEL SCHEDULE. CONTRACTOR SF MAKE ALL TERMINATIONS TO SYSTEMS FURNITUF DROVIDED BY OTHERS
		<del>)</del>	GFCI DUPLEX RECEPTACLE		
J		€‡	ABOVE-COUNTER GFCI DUPLEX RECEPTACLE; MOUNT AT 4" ABOVE COUNTER OR BACKSPLASH OR 44" (WHICHEVER IS LOWER)	AND PER THE M	LIGHT FIXTURE: UPPERCASE LETTER(S) INDICATE
		<del> </del>	QUADRAPLEX RECEPTACLE		TYPE; LOWERCASE LETTER(S) INDICATE ASSOCIA CONTROLS ID; FIXTURES WITH HALFSHADED REG
		<b>∳</b> ‡	ABOVE-COUNTER QUADRAPLEX RECEPTACLE; MOUNT AT 4" ABOVE COUNTER OR BACKSPLASH OR 44" (WHICHEVER IS LOWER)		CONNECT TO EMERGENCY PROVIDE BATTERY BACK CONNECT TO EMERGENCY CIRCUIT AS INDICATED LIGHTING FIXTURE SCHEDULE FOR FIXTURE DESCRIPTIONS AND MOUNTING TYPES
		$\ominus$	SPECIAL PURPOSE RECEPTACLE; VERIFY NEMA CONFIGURATION WITH THE MANUFACTURER OF THE EQUIPMENT SERVED	X	EXIT LIGHT FIXTURE. ARROWS (IF USED) INDICATE DIRECTION. FILLED IN QUADRANT(S) INDICATE NU
-1			VOICE/DATA/POWER FLUSH FLOOR BOX		AND ORIENTATION OF ILLUMINATED FACES. LETTI INDICATE FIXTURE TYPE. SEE LIGHTING FIXTURE SCHEDULE FOR FIXTURE DESCRIPTION.
		₽	DUPLEX RECEPTACLE FLUSH FLOOR BOX	OS	CEILING MOUNTED OCCUPANCY SENSOR WITH 36 COVERAGE. LOCATE AND INSTALL PER THE MANUFACTURER'S RECOMMENDATIONS; TEST AN ADJUST SENSITIVITY AFTER INSTALLATION AND S
	PL (PI ON	IBLIC ADDRES ROVIDE 3/4"EC V I THE DRAWING	<b>SS</b> WITH PULL STRING FROM THE DEVICE LOCATION SHOWN S TO AN ACCESSIBLE LOCATION ABOVE CEILING)	vs	DELAY AS REQUIRED BY THE OWNER CEILING MOUNTED OCCUPANCY SENSOR, AS ABC
G		PA	PA SYSTEM SPEAKER	P	CONFIGURED FOR VACANCY OPERATION PHOTOELECTRIC CELL, EXTERIOR RATED; AIM AN
			PA SYSTEM SPEAKER VOLUME CONTROL PA SYSTEM SPEAKER MOUNT CALL-IN SWITCH	Ċ,	SHIELD SENSOR FROM INTERIOR AND EXTERIOR ARTIFICIAL LIGHT SOURCES
				S	SWITCH; SUBSCRIPT (WHEN USED): NONE - SINGLE POLE TOGGLE SWITCH 3 - THREE-WAY SWITCH D - LINEAR SLIDE DIMMER SWITCH 3D - THREE-WAY LINEAR SLIDE DIMMER SV O - WALL MOUNTED OCCUPANCY SENSOR 30 - THREE-WAY SWITCH WITH OCCUPANCY SC - SCENE CONTROLLER
-					V- VACANCY SENSOR a,b,c etc SWITCH ID
_					
-					
D					

![](_page_15_Figure_1.jpeg)

ABBREVIATI	IONS														
A	AMPERE(S)	CATV	CABLE TELEVISION	EF	EXHAUST FAN	FOC	FIBER OPTIC CABLE	MCB	MAIN CIRCUIT BREAKER	NO	NORMALLY OPEN	SF	SUPPLY FAN	UGS	UNDERGROUND SECONDARY
AC	ABOVE COUNTER (6" ABOVE BACKSPLASH)	CB	CIRCUIT BREAKER	EGC	EQUIPMENT GROUNDING CONDUCTOR	G, GND	GROUND	MCM/KCMIL	1,000 CIRCULAR MILS	NU	WEATHERPROOF IN-USE COVER	S/N	SOLID NEUTRAL	UH	UNIT HEATER
AF	AMPERE(S) FUSED	СКТ	CIRCUIT	EMER.	EMERGENCY	GEC	GROUNDING ELECTRODE CONDUCTOR	MECH.	MECHANICAL	OH	OVERHEAD	SPD	SURGE PROTECTIVE DEVICE	UL	UNDERWRITER'S LABORATORY, INC.
AFCI	ARC FAULT CIRCUIT INTERRUPTER	CLG	CLG	EMT	ELECTRICAL METALLIC TUBING	GFCI	GROUND FAULT CIRCUIT INTERRUPTER	MH	MANHOLE	OHE	OVERHEAD ELECTRICAL	STD	STANDARD	UON	UNLESS OTHERWISE NOTED
AFF	ABOVE FINISHED FLOOR	CORR	CORRIDOR	EQ	EQUAL	GRS	GALVANIZED RIGID STEEL	MLO	MAIN LUGS ONLY	OSP	OUTSIDE PLANT	TEL	TELEPHONE	V	VOLTS
AFG	ABOVE FINISHED GRADE	СТ	CURRENT TRANSFORMER	EQUIP.	EQUIPMENT	HH	HANDHOLE	MOCP	MAXIMUM OVERCURRENT PROTECTION	UPP	UTILITY POWER POLE	TELECOM	TELECOMMUNICATIONS	VAC	VOLTS ALTERNATING CURRENT
AIC	AMPERE INTERRUPTING CAPACITY	CTRL	CONTROLLER	EWC	ELECTRIC WATER COOLER	HP	HORSEPOWER	MTD	MOUNTED	PB	PULL BOX	TGB	TELECOMMUNICATIONS GROUND BUS	VDC	VOLTS DIRECT CURRENT
AT	AMP SYMMETRICAL INTERRUPTING CAPACITY RMS	D	TO BE DEMOLISHED	EWH	ELECTRICA WATER HEATER	KAIC	1,000 AMP SYMMETRICAL INTERRUPTING CAPACITY RMS	MTG	MOUNTING	PH	PHASE	TMGB	TELECOMMUNICATIONS MAIN GROUND BUS	VFD	VARIABLE FREQUENCY DRIVE
AWG	AMERICAN WIRE GAUGE	DISC.	DISCONNECT	EXIST.	EXISTING	KWH	1,000 WATT HOURS	NC	NORMALLY CLOSED	PNL	PANEL	TTB	TELECOM TERMINAL BOARD	WH	WATER HEATER
BG	BELOW GRADE	DIST.	DISTRIBUTION	FACP	FIRE ALARM CONTROL PANEL	KVA	1,000 VOLT AMPERES	NEC	NATIONAL ELECTRICAL CODE	PV	PHOTOVOLTAIC	TV	TELEVISION	WP	WEATHERPROOF
BLDG	BUILDING	DWG	DRAWING	FACPRA	FIRE ALARM CONTROL PANEL REMOTE ANNUNCIATOR	LAN	LOCAL AREA NETWORK	NEU	NEUTRAL	PVC	POLYVINYL CHLORIDE	TVSS	TRANSIENT VOLTAGE SURGE SUPPRESSION	XFMR	TRANSFORMER
BKR	BREAKER	Е	EXISTING TO REMAIN	FC	FOOTCANDLE	LC	LIGHTING CONTACTOR	NF	NON-FUSED	QTY	QUANTITY	TYP.	TYPICAL		
С	CONDUIT	EC	EMPTY CONDUIT	FCU	FAN COIL UNIT	LTG	LIGHTING	NIC	NOT IN CONTRACT	RCPT	RECEPTACLE	UG	UNDERGROUND		
CAT	CATEGORY	ECB	ENCLOSED CIRCUIT BREAKER	FLA	FULL LOAD AMPERE(S)	MCA	MINIMUM CIRCUIT AMPACITY	NL	NIGHT LIGHT	REQ'D	REQUIRED	UGP	UNDERGROUND PRIMARY		

	(REFER TO	DRAWINGS AND SPECIFICATIONS FOR FURTHER REQUIREMENTS)	ELEC
CATIONS TO BE PER THE OWNER'S STANDARDS IF APPLICABLE)	FIRE ALAR (PROVIDE C AND CONDU	<b>M</b> ONDUIT AND WIRE PER THE PANEL SCHEDULE FOR POWER IIT AND CABLING PER THE MANUFACTURER'S SPECIFICATIONS)	1. 2
TELECOM TERMINAL BOARD; 0'-1" THICK AC INDOOR GRADE, FIRE RETARDANT PLYWOOD, PAINTED AS	FACP	FIRE ALARM CONTROL PANEL	<b>L</b> .
SPECIFIED BY THE ARCHITECT OR OWNER	F	FIRE ALARM SYSTEM PULL STATION	3.
DUPLEX DATA OUTLET; REFER TO TELECOMMUNICATIONS NOTES FOR MORE		FIRE ALARM SYSTEM STROBE	4.
INFORMATION. PROVIDE (2) CABLES UNLESS INDICATED OTHERWISE BY NUMBER ADJACENT TO SYMBOL.		FIRE ALARM SYSTEM CHIME/STROBE	5.
DUPLEX DATA OUTLET, AS ABOVE, MOUNTED FLUSH	田〇	FIRE ALARM SYSTEM HORN/STROBE	
TO CEILING OR MOUNTED TO STRUCTURE IN AREAS WITH NO CEILING	SK	FIRE ALARM SYSTEM SPEAKER/STROBE	6.
DUPLEX DATA OUTLET, AS ABOVE, MOUNTED ABOVE	$\sim$	FIRE ALARM SYSTEM CEILING MOUNT STROBE	7.
OTHERWISE BY NUMBER ADJACENT TO SYMBOL.	©<	FIRE ALARM SYSTEM CEILING MOUNT CHIME/STROBE	8.
DUPLEX DATA FLUSH FLOOR BOX; PROVIDE 1"C TO	BA	FIRE ALARM SYSTEM CEILING MOUNT HORN/STROBE	9.
CAT 6 CABLE FROM THE OUTLET TO THE TELECOM	S	FIRE ALARM SYSTEM CEILING MOUNT SPEAKER/STROBE	
	©	FIRE ALARM SYSTEM CARBON MONOXIDE DETECTOR	10.
TO AN ACCESSIBLE LOCATION ABOVE CEILING, ONE (1) CAT 6 CABLE FROM THE ACCESS POINT LOCATION	Ū	FIRE ALARM SYSTEM THERMAL DETECTOR	
TO THE TELECOM TERMINAL BOARD	Ø	FIRE ALARM SYSTEM DUCT SMOKE DETECTOR	11.
LEGRAND EVOLUTION 4-GANG OR APPROVED EQUAL TV WALL BOX WITH ONE DUPLEX RECEPTACLE. ONE	S	FIRE ALARM SYSTEM SMOKE DETECTOR	12
DUPLEX DATA OUTLET, ONE COAX OUTLET, AND ONE HDMI OUTLET; PROVIDE 1"C, TWO (2) CAT 6 CABLES AND	Fs	FIRE ALARM SYSTEM FLOW SWITCH	
1"C, ONE (1) CATV CABLE FROM THE BOX TO THE TELECOM TERMINAL BOARD: PROVIDE CONDUIT AND	Ts	FIRE ALARM SYSTEM TAMPER SWITCH	13.
WIRE FOR POWER PER THE PANEL SCHEDULE.	SECURITY		
LEGRAND EVOLUTION FLOOR MOUNTED (OR POKE THROUGH) 4-GANG OR APPROVED EQUAL COMBO	(EQUIPMENT	T PROVIDED BY OTHERS)	14.
RECESSED FLOOR BOX WITH TWO (2) DUPLEX RECEPTACLES, FOUR (4) DATA OUTLETS (UNDER A	KP	JUNCTION BOX FOR KEYPAD; INSTALL 48" AFF AND	15.
SINGLE PLATE), AND HDMI; PROVIDE 1-1/4"C TO AN ACCESSIBLE LOCATION ABOVE CEILING, FOUR (4)		BOX TO AN ACCESSIBLE LOCATION ABOVE CEILING	
CAT 6 CABLES FROM THE BOX TO THE TELECOM TERMINAL BOARD. ROUTE 1"C WITH HDMI CABLE	DC	JUNCTION BOX FOR DOOR CONTACT (MAGNETIC LOCK);	16. 17.
FROM THE BOX TO THE TV WALL BOX IN THE SAME ROOM. PROVIDE CONDUIT AND WIRE FOR POWER		FRAME TO THE JUNCTION BOX AND FROM THE JUNCTION BOX TO AN ACCESSIBLE LOCATION ABOVE CELLING	
		JUNCTION BOX FOR CARD READER: PROVIDE 3/4"EC WITH	18.
EQUAL FURNITURE FEED. BOX SHALL INCLUDE POWER AND		PULL STRING FROM THE JUNCTION BOX TO AN ACCESSIBLE LOCATION ABOVE CELLING	19.
ADJACENT TO SYMBOL. PROVIDE 1-1/4" C. TO LOCATION ABOVE ACCESSIBLE CEILING FOR DATA CABLING, PROVIDE	ES		20.
CONDUIT/CONDUCTOR FOR POWER PER PANEL SCHEDULE.		3/4"EC WITH PULL STRING FROM THE DOOR FRAME TO THE JUNCTION BOX AND FROM THE JUNCTION BOX TO AN	21.
SYSTEMS FURNITURE PROVIDED BY OTHERS.		ACCESSIBLE LOCATION ABOVE CEILING	22. 23.
FLOOR MOUNTED (OR POKE THROUGH) LEGRAND	•	JUNCTION BOX FOR DOOR OPERATOR; PROVIDE 3/4"EC WITH PULL STRING FROM THE JUNCTION BOX TO AN	24.
EVOLUTION OR APPROVED EQUAL FURNITURE FEED. BOX SHALL INCLUDE POWER AND DATA. NUMBER OF DATA		ACCESSIBLE LOCATION ABOVE CEILING NEAR THE CONTROLLED DOOR	23. 26. 27
CABLES INDICATED BY # ADJACENT TO SYMBOL. PROVIDE 1-1/4" C. TO LOCATION ABOVE ACCESSIBLE CEILING FOR		JUNCTION BOX FOR MOTION DETECTOR; PROVIDE 3/4"EC WITH PULL STRING FROM THE JUNCTION BOX TO AN	28
DATA CABLING. PROVIDE CONDUIT/CONDUCTOR FOR POWER PER PANEL SCHEDULE. CONTRACTOR SHALL		ACCESSIBLE LOCATION ABOVE CEILING	29.
PROVIDED BY OTHERS.		JUNCTION BOX FOR CEILING MOUNTED CAMERA; PROVIDE 1"C WITH (1) CAT 6 CABLE FROM THE JUNCTION BOX TO	
T AND WIRE PER THE PANEL SCHEDULE FOR POWER		NEAREST TELECOM RACK WITH NVR	
IUFACTURER'S SPECIFICATIONS FOR CONTROLS)	H	JUNCTION BOX FOR WALL MOUNTED CAMERA; PROVIDE 1"C WITH (1) CAT 6 CABLE FROM THE JUNCTION BOX TO	30.
LIGHT FIXTURE; UPPERCASE LETTER(S) INDICATE FIXTURE TYPE; LOWERCASE LETTER(S) INDICATE ASSOCIATED		NEAREST TELECOM RACK WITH NVR	
CONTROLS ID; FIXTURES WITH HALFSHADED REGION SHALL BE EMERGENCY PROVIDE BATTERY BACKUP OR	SOUND (PROVIDE 1"	EC WITH PULL STRING FROM THE DEVICE LOCATION SHOWN	31.
CONNECT TO EMERGENCY CIRCUIT AS INDICATED; SEE LIGHTING FIXTURE SCHEDULE FOR FIXTURE	ON THE DRA	WINGS TO AN ACCESSIBLE LOCATION ABOVE CEILING)	
DESCRIPTIONS AND MOUNTING TYPES	(M)	FLOOR MOUNTED MICROPHONE OUTLET	
EXIT LIGHT FIXTURE. ARROWS (IF USED) INDICATE	(SP) T	CEILING MOUNTED SPEAKER	LIGI
DIRECTION. FILLED IN QUADRANT(S) INDICATE NUMBER AND ORIENTATION OF ILLUMINATED FACES. LETTER(S)	SP	WALL MOUNTED SPEAKER	1. 2.
INDICATE FIXTURE TYPE. SEE LIGHTING FIXTURE SCHEDULE FOR FIXTURE DESCRIPTION.	HEALTHCA	ARE	3.
CEILING MOUNTED OCCUPANCY SENSOR WITH 360°	(PROVIDE 1" ON THE DRA	EC WITH PULL STRING FROM THE DEVICE LOCATION SHOWN WINGS TO AN ACCESSIBLE LOCATION ABOVE CEILING)	4.
COVERAGE. LOCATE AND INSTALL PER THE MANUFACTURER'S RECOMMENDATIONS; TEST AND	D	DOCTOR'S DICTATION	5
ADJUST SENSITIVITY AFTER INSTALLATION AND SET TIME DELAY AS REQUIRED BY THE OWNER	+●	NURSE CALL SYSTEM EMERGENCY CALL-IN STATION	6.
CEILING MOUNTED OCCUPANCY SENSOR, AS ABOVE,	+0	NURSE CALL SYSTEM BEDSIDE PATIENT STATION	7.
	<del>s</del> ⊖	NURSE CALL SYSTEM STAFF STATION	8.
PHOTOELECTRIC CELL, EXTERIOR RATED; AIM AND SHIELD SENSOR FROM INTERIOR AND EXTERIOR	$\vdash \! \! \otimes$	NURSE CALL SYSTEM CORRIDOR DOME LIGHT	9.
ARTIFICIAL LIGHT SOURCES	B	NURSE CALL SYSTEM CODE BLUE STATION	10.
SWITCH; SUBSCRIPT (WHEN USED):			11.
3 - THREE-WAY SWITCH	ELECTRICA	L SHEET INDEX	10
3D - THREE-WAY LINEAR SLIDE DIMMER SWITCH	E0.0	ELECTRICAL COVER SHEET	12.
30 - THREE-WAY SWITCH WITH OCCUPANCY SENSOR SC - SCENE CONTROLLER	E1.0 E1.1	1ST FLOOR - DEMO PLAN 2ND FLOOR - OVERALL DEMO PLAN	13.
V- VACANCY SENSOR a,b,c etc SWITCH ID	E1.2 E1.3	2ND FLOOR - DEMO PLAN - AREA 1 2ND FLOOR - DEMO PLAN - AREA 2	14. 15.
	E1.4	2ND FLOOR - DEMO PLAN - AREA 3	16
	E2.0 E2.1	2ND FLOOR - POWER PLAN OVERALL	10.
	E2.2 E2.3	2ND FLOOR - POWER PLAN - AREA 1 2ND FLOOR - POWER PLAN - AREA 2	
	E2.4	2ND FLOOR - POWER PLAN - AREA 3	
	E3.0 E3.1	151 FLOOR - LIGHTING PLAN 2ND FLOOR - LIGHTING PLAN - AREA 1	
	E3.2	2ND FLOOR - LIGHTING PLAN - AREA 2	
	⊑3.3 E4.0	1ST FLOOR - SPECIAL SYSTEMS & MECHANICAL CONNEC	TIONS
	E4.1 E4.2	2ND FLOOR - SPECIAL SYSTEMS & MECHANICAL CONNEC 2ND FLOOR - SPECIAL SYSTEMS & MECHANICAL CONNEC	TIONS - AREA 1 TIONS - AREA 2
	E4.3 E5.0	2ND FLOOR - SPECIAL SYSTEMS & MECHANICAL CONNEC RISER DIAGRAM	TIONS - AREA 3

E5.1 ELECTRICAL PANEL SCHEDULES - 1 E5.2 ELECTRICAL PANEL SCHEDULES - 2

E6.0 ELECTRICAL DETAILS

1.	ALL ELECTRICAL WORK SHALL BE DONE IN STRICT ACCORDANCE WITH THE LATEST EDITION OF THE NATIONAL
	ELECTRICAL CODE AS ADOPTED BY THE AHJ.
2.	THE WORDS "PROVIDE" AND "PROVIDED" AS USED HEREIN SHALL BE UNDERSTOOD TO MEAN, "PROVIDE COMPLETE IN PLACE," THAT IS "FURNISH AND INSTALL". EQUIPMENT AND MATERIAL INDICATED TO BE PROVIDED SHALL BE NEW UNLESS OTHERWISE NOTED AND SHALL BE OF THE MOST SUITABLE GRADE FOR THE PURPOSE INTENDED.
3.	ROUTE NEW CONDUIT AND WIRING CONCEALED IN WALLS AND CEILING WHERE POSSIBLE. COORDINATE INSTALLATION OF EXPOSED CONDUIT AND WIRING WITH THE ARCHITECT.
4.	CONTRACTOR SHALL PROVIDE ELECTRICAL SERVICE TO NEW HVAC UNITS AS FURNISHED BY THE MECHANICAL CONTRACTOR. VERIFY THE EXACT ELECTRICAL REQUIREMENTS WITH THE REVIEWED HVAC SUBMITTALS PRIOR TO ORDERING ELECTRICAL EQUIPMENT.
5.	BEFORE INSTALLATION, CONTRACTOR SHALL SUBMIT DETAILED DRAWINGS TO THE ENGINEER FOR REVIEW COVERING PROPOSED LOCATIONS, MOUNTING, AND ROUTING FOR ALL CONDUITS, SERVICES, FITTINGS, GROUND RODS, SUPPORTS, FTC.
6.	CONDUIT RUNS ARE SHOWN DIAGRAMMATICALLY. CONTRACTOR SHALL ROUTE IN MOST DIRECT MANNER AVOIDING ANY OBSTRUCTIONS NOT INDICATED.
7.	CONTRACTOR SHALL BE RESPONSIBLE FOR ALL GROUNDING OF EQUIPMENT, DISCONNECT SWITCHES, PANELBOARDS, FOUNDATIONAL STEEL, BLDG STEEL, METAL PIPING, AND TELECOMMUNICATION RACKS, ETC. REGARDLESS OF DEPICTION ON PLAN
8.	CONTRACTOR IS RESPONSIBLE FOR OVER-CURRENT PROTECTIVE DEVICE SHORT CIRCUIT, COORDINATION, AND ARC- ELASH STUDIES
9.	MATERIALS AND MANUFACTURERS NOTED ON DRAWINGS ARE TO BE USED AS BASIS OF DESIGN TO ESTABLISH QUALITY AND PERFORMANCE STANDARDS AND SHALL BE PROVIDED AS SPECIFIED. SUBSTITUTIONS WILL BE CONSIDERED WHERE SUFFICIENT PRODUCT INFORMATION IS PROVIDED TO MAKE A PROPER EVALUATION. REVIEW OF A SUBSTITUTION IS AT
10.	THE SOLE DISCRETION OF THE PROFESSIONAL. THE CONTRACTOR SHALL SUBMIT COPIES OF THE PRODUCT DATA, SHOP DRAWINGS, ETC. OF ALL MATERIALS NOTED ON THE DRAWINGS. ALL SUBMITTED PRODUCT DATA, SHOP DRAWINGS, ETC. SHALL BE MARKED WITH THE NAME OF THE DRO JECT AND SHALL BEAR THE STAMP OF APPROVAL OF THE CONTRACTOR AS EVIDENCE THAT THE MATERIAL HAS BEEN
11.	CHECKED BY THE CONTRACTOR. DRAWINGS SPECIFIC TO THIS TRADE DO NOT LIMIT THE RESPONSIBILITY OR WORK REQUIRED BY THE CONTRACT DOCUMENTS. REFER TO DRAWINGS AND SPECIFICATIONS OF OTHER TRADES FOR COMPLETE INFORMATION PRIOR TO
12.	BID. WHERE CONFLICTS EXIST AMONG DRAWINGS, SPECIFICATIONS, AND EQUIPMENT SCHEDULES, THE MOST STRINGENT REQUIREMENT OR QUANTITY SHALL APPLY. NOTIFY THE ARCHITECT/ENGINEER OF ALL CONFLICTS FOR RESOLUTION OR
13.	INTERPRETATION. NO EQUIPMENT SHALL BE ORDERED OR INSTALLED UNTIL THE PROJECT ENGINEER HAS RECEIVED A COPY STAMPED "NO EXCEPTIONS TAKEN." "NO EXCEPTIONS TAKEN" DOES NOT RELIEVE THE CONTRACTOR FROM CONFORMANCE WITH THE CONTRACT, EXTEND TO QUANTITIES OR DIMENSIONS, IMPLY THAT THE EQUIPMENT CAN BE INSTALLED OR OPERATE
14	SATISFACTORILY, THAT THE EQUIPMENT CONTAINS ALL NECESSARY COMPONENTS, OR THAT IT WILL COORDINATE WITH OTHER REVIEWED ITEMS.
14.	FROM THE RESPONSIBILITY FOR ANY ASSOCIATED WORK.
15.	OTHER TRADES. THE CONTRACTOR SHALL INCUR ALL COSTS ASSOCIATED WITH THE RELOCATION OF EQUIPMENT CONFLICTING WITH NEW WORK BY OTHER TRADES THAT HAS NOT BEEN COORDINATED.
16. 17.	COORDINATE ALL ASPECTS OF NEW SERVICE WITH UTILITY COMPANY AND INCLUDE ALL COSTS IN BID. WARNING TAPE SHALL BE INSTALLED 6" INCHES BELOW GRADE OVER ALL CONDUITS INCLUDING BUT NOT LIMITED TO FEEDERS, DATA, AND BRANCH CIRCUITS. TAPE SHALL BE PERMANENT AND DISPLAY MESSAGE DESCRIBING THE TYPE OF SERVICE BURIED BENEATH IT.
18.	ALL CONDUIT SIZES SHOWN ARE MINIMUM SIZES WHICH SHALL BE UTILIZED. CONTRACTOR SHALL VERIFY THAT ALL WIRING AND CABLES UTILIZED MEET NEC FILL REQUIREMENTS PRIOR TO INSTALLATION OF CONDUIT. ANY CONFLICT SHALL BE BROUGHT TO THE ENGINEER'S ATTENTION PRIOR TO BIDDING
19.	CONTRACTOR SHALL COORDINATE ALL CONDUIT WALL AND FLOOR PENETRATIONS WITH ALL TRADES AS REQUIRED. ALL PENETRATIONS SHALL BE SEALED WATERTIGHT.
20. 21.	CONTRACTOR SHALL MATCH NEMA RECEPTACLE CONFIGURATION TO MATCH EQUIPMENT PLUGS. CONTRACTOR SHALL PROVIDE HOUSEKEEPING PAD UNDER ALL FLOOR MOUNTED ELECTRICAL EQUIPMENT PROVIDED IN THIS PROJECT.
22.	PROVIDE 1/4" MINIMUM DIAMETER PULL ROPE. PULL ROPE SHALL NOT BE NYLON STRING.
23. 24.	ALL 120V, 20 AMP BRANCH CIRCUITS OVER 75' SHALL BE A MINIMUM OF #10. ALL CIRCUITS SHALL HAVE DEDICATED NEUTRAL. NO NEUTRAL SHARING SHALL BE PERMISSIBLE FOR 120V & 277V
25	UIRUUTI S. FOR SERVICE ENTRANCE CONDUITS, LITHIZE LONG RADIUS (36") CONDUIT RENDS
26.	ALL CONDUIT RISERS FROM UNDERGROUND SHALL HAVE RIGID METAL ELLS AND RISERS.
27.	PRIOR TO CONSTRUCTION, VERIFY THE LOCATION OF ALL EXISTING UNDERGROUND UTILITIES. AVOID DISTURBANCE OF EXISTING UTILITIES NOT INCLUDED IN THIS PROJECT.
28.	FURNISH AND INSTALL ALL EXTERIOR RECEPTACLES WITH WEATHERPROOF COVERS.
29.	PROVIDE GFCI RECEPTACLES: A. ALL EXTERIOR LOCATIONS B. ALL COMMERCIAL KITCHENS C. LAUNDRY AREAS D. WITHIN 6' OF A SINK
30.	E. FOR VENDING MACHINES FOR UNDERGROUND CONDUIT RUNS, PROVIDE (1) PULL BOX FOR EVERY 500-FEET OF CONDUIT LENGTH AND FOR EVERY 360° OF CONDUIT BENDS, UNLESS OTHERWISE INDICATED MORE FREQUENTLY. FOR PULL BOXES LOCATED WITHIN
	DRIVABLE SURFACES, ENSURE THAT THE PULL BOX IS TRAFFIC RATED. IN THE EVENT THAT A PULL BOX IS REQUIRED ON A UTILITY CONDUIT RUN, ENSURE THAT THE PULL BOX MEETS ALL REQUIREMENTS OF THAT UTILITY.
21	ALL 120V RECEPTACIES SHALL BE TAMPER RESISTANT

## LIGHTING GENERAL NOTES

1.	VERIFY THE EXACT LOCATION OF ALL LIGHTING SWITCHES WITH THE ARCHITECT PRIOR TO ROUGH-IN.
2.	VERIFY THE EXACT LOCATION OF ALL LIGHTING FIXTURES WITH THE ARCHITECTURAL REFLECTED CEILING PLAN PRIOR TO
	ROUGH-IN.
3.	VERIFY THE EXACT LOCATION OF CEILING MOUNTED OCCUPANCY SENSORS WITH THE MANUFACTURER'S SPECIFICATIONS
	PRIOR TO INSTALLATION FOR MAXIMUM PERFORMANCE.
4.	EMERGENCY FIXTURES AND EXIT FIXTURES SHALL BE CONNECTED TO THE NEAREST LIGHTING CIRCUIT. BRANCH CIRCUIT
	WIRING TO EXIT FIXTURES AND TO BATTERY INVERTERS WITHIN FIXTURES WITH INTEGRAL BATTERY UNITS SHALL BE

- UNSWITCHED, CONNECTED AHEAD OF ANY CONTROL SWITCHING. 5. WALL MOUNT TYPE "Z" FIXTURES ABOVE DOOR AS SHOWN ON DRAWINGS. COORDINATE WITH THE ARCHITECT PRIOR TO ROUGH-IN. MOUNT TYPE "EM" FIXTURES 8'-0" AFF UNLESS OTHERWISE NOTED. VERIFY THE CEILING TYPES FOR ALL LIGHT FIXTURES TO BE FLUSH MOUNTED OR SUSPENDED AND ADJUST FIXTURE MOUNTING TYPES IN ACCORDANCE WITH THE CEILING TYPE, AS REQUIRED. CONTRACTOR SHALL PROVIDE ALL REQUIRED MOUNTING HARDWARE. 8. ALL VANITY FIXTURES SHALL BE MOUNTED WITH 0'-3" OF SPACE BETWEEN THE BOTTOM OF THE FIXTURE AND THE TOP OF
- THE MIRROR UNLESS OTHERWISE NOTED. 9. VERIFY THE EXACT MOUNTING LOCATION FOR ANY PHOTOELECTRIC CELLS WITH THE ARCHITECT PRIOR TO ROUGH-IN. ALL PHOTOELECTRIC CELLS MUST FACE NORTH. 10. CONTRACTOR SHALL CONFIRM COMPATIBILITY OF ALL LIGHTING CONTROL DEVICES/SWITCHES/DIMMERS WITH LIGHTING
- FIXTURES AND BALLASTS/DRIVERS PRIOR TO SUBMITTAL. 11. COORDINATE LOCATION OF LIGHT FIXTURES IN MECHANICAL ROOMS WITH DIVISION 15/23 PLANNED EQUIPMENT LOCATION AND DUCT INSTALLATION. WALL MOUNT LIGHTS OR PROVIDE PENDANT MOUNTING AS REQUIRED TO ILLUMINATE THE SPACE.
- 12. WHERE MULTIPLE OCCUPANCY SENSORS ARE SHOWN IN THE SAME AREA, MOTION DETECTION BY ONE SENSOR SHALL ILLUMINATE ALL LIGHTING IN THE RESPECTIVE AREA. 13. VERIFY DOOR SWINGS PRIOR TO INSTALLING LIGHT SWITCHES. SWITCHES SHALL BE INSTALLED ON STRIKE SIDE OF DOOR
- UNLESS OBSTRUCTED BY GLAZING OR GRAPHICS. 14. LIGHT SWITCHES SHALL BE GANGED UNDER A SINGLE PLATE WHERE GROUPED TOGETHER 15. CONTRACTOR SHALL MAKE FIELD ADJUSTMENTS TO EXIT SIGN LOCATION TO ENSURE THE SIGN IS VISIBLE THROUGHOUT CORRIDOR SEGMENT. ADJUSTMENTS GREATER THAN 10' FROM LOCATION SHOWN ON PLAN SHALL BE REVIEWED BY
- ENGINEER PRIOR TO ROUGH-IN. 16. CONTRACTOR SHALL ENSURE THAT DOOR SWINGS ARE NOT GOING TO BE IMPEDED BY THE INSTALLATION OF A LIGHT FIXTURE, FIRE ALARM DEVICE, SENSOR, EXIT SIGN, ETC.

ALL SYMBOLS, ABBREVIATIONS, AND NOTES ABOVE ARE TYPICAL AND ARE NOT NECESSARILY USED IN THESE CONSTRUCTION DOCUMENTS

<u>3 4 5 6 7 8 9 10 11 12 13 16 17</u>

|--|

- VERIFY EXACT LOCATION, VOLTAGE, PHASE, AMPERAGE, ETC. OF ALL MECHANICAL EQUIPMENT WITH MECHANICAL CONTRACTOR PRIOR TO ORDERING ELECTRICAL GEAR. INTERCONNECT THE HOOD EXHAUST AND SUPPLY FANS WITH HOOD EXTINGUISHING SYSTEM SUCH THAT WHEN HOOD 2.
- EXTINGUISHING SYSTEM IS ACTIVATED, THE EQUIPMENT BELOW THE HOOD AND HOOD SUPPLY FAN ARE DE-ENERGIZED AND THE HOOD EXHAUST FAN WILL START IF NOT RUNNING.
- INTERCONNECT THE HOOD EXTINGUISHING SYSTEM WITH THE FIRE ALARM SYSTEM IF APPLICABLE. PROVIDE AN ADDITIONAL 10%, OR ONE (1), WHICHEVER IS GREATER, OF THE FOLLOWING DEVICES WHICH ARE INCLUDED IN THE PROJECT, AND INSTALL THEM AT THE DIRECTION OF THE ARCHITECT, ENGINEER, OR AHJ DURING THE COURSE OF THE PROJECT. PROVIDE ALL REQUIRED CONDUIT, INTERCONNECTIONS, CONDUCTORS, PROGRAMMING, ETC. AS REQUIRED AT NO ADDITIONAL COST TO THE OWNER: INITIATING DEVICES (PULL STATIONS, SMOKE DETECTORS, THERMAL
- DETECTORS, ETC.), NOTIFICATION APPLIANCES (STROBES, HORN STROBES, SPEAKER STROBES, SPEAKERS, DUCT DETECTORS, ETC.), AND MONITORING MODULES. 5. VERIFY REQUIRED QUANTITY OF DUCT DETECTORS WITH DUCTWORK CONFIGURATION AS IT IS ACTUALLY INSTALLED.

## **TELECOMMUNICATIONS GENERAL NOTES**

COORDINATE WITH MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN.

- PROVIDE 1" CONDUIT AND [PULL STRING TO ACCESSIBLE LOCATION ABOVE CEILING] [TWO (2) CAT 6 CABLES] AT EACH 1. DATA OUTLET SHOWN. CABLING SHALL ROUTE TO TELEPHONE BACKBOARD IN IT ROOM. ALL TERMINATIONS SHALL BE BY
- CONTRACTOR. OWNER SHALL PROVIDE THE WALL MOUNT DATA RACK, ALL ITEMS INCLUDED IN THE DATA RACK, AND ANY NECESSARY 2. TELEPHONE EQUIPMENT.
- PLYWOOD FOR BACKBOARDS SHALL BE 0'-1" AC INDOOR GRADE, FIRE RETARDANT, AND PAINTED AS SPECIFIED. COMMON BOND RACKS, PATCH PANELS, CABLE SHIELDS, PROTECTORS, AND THE BUILDING MAIN ELECTRICAL
- GROUNDING CONDUCTORS SHALL BE, AT MINIMUM, #6 AWG INSULATED AND STRANDED COPPER. FASTENERS SHALL BE RECESSED AND ANCHORED. THE CONTRACTOR IS CAUTIONED TO INSURE NO PAINT PRODUCTS COME IN CONTACT WITH ANY SPECIAL SYSTEM
- COMPONENTS INCLUDING, BUT NOT LIMITED TO, CABLES, COAX, CONDUCTORS, AND JACKS DURING CONSTRUCTION. IF ANY PAINT PRODUCT IS PLACED ON ANY COMPONENT, THE COMPONENT SHALL BE REPLACED FROM ITS POINT OF ORIGIN
- TO THE POINT OF TERMINATION. CONTRACTOR SHALL COORDINATE JACKET COLORS WITH OWNER'S IT REPRESENTATIVE PRIOR TO PURCHASE. IN THE 6. EVENT THAT THE OWNER DOES NOT HAVE A STANDARD FOR COLORS JACKETS SHALL BE AS FOLLOWS.
- DATA: BLUE VOICE: WHITE WAP: YELLOW
- CAMERA: GREEN

A. POWER CIRCUITS:

1.

## **IDENTIFICATION OF EQUIPMENT GENERAL NOTES**

- ENGRAVED, LAMINATED ACRYLIC OR MELAMINE LABEL: PUNCHED OR DRILLED FOR SCREW MOUNTING. WHITE LETTERS ON A DARK-GRAY BACKGROUND. MINIMUM LETTER HEIGHT SHALL BE 3/8 INCH. LETTERING AND BACKGROUND COLORS AS INDICATED BELOW:
- a. NORMAL: WHITE LETTERING ON BLACK BACKGROUND. b. EMERGENCY LEGALLY REQUIRED STANDBY OR ESSENTIAL ELECTRICAL SYSTEM PRIOR TO ATS: BLACK LETTERING ON
- YELLOW BACKGROUND. c. EMERGENCY OPTIONAL STANDBY: WHITE LETTERING ON PURPLE BACKGROUND.
- d. UPS: BLACK LETTERING ON ORANGE BACKGROUND. B. FIRE ALARM SYSTEM: BLACK LETTERING ON RED BACKGROUND. 2. LABELING INSTRUCTIONS
  - INDOOR EQUIPMENT: ENGRAVED, LAMINATED ACRYLIC OR MELAMINE LABEL. UNLESS OTHERWISE INDICATED, PROVIDE A SINGLE LINE OF TEXT WITH 1/2-INCH- HIGH LETTERS ON 1-1/2-INCH- HIGH LABEL; WHERE 2 LINES OF TEXT ARE REQUIRED, USE LABELS 2 INCHES HIGH.

#### OUTDOOR EQUIPMENT: ENGRAVED, LAMINATED ACRYLIC OR MELAMINE LABEL. EQUIPMENT TO BE LABELED SHALL INCLUDE BUT NOT BE LIMITED TO:

- PANELBOARDS, ELECTRICAL CABINETS, AND ENCLOSURES. TRANSFORMERS. • EMERGENCY SYSTEM BOXES AND ENCLOSURES.
- RECEPTACLES WITH PANEL AND CIRCUIT NUMBERS. • DISCONNECT SWITCHES.
- ENCLOSED CIRCUIT BREAKERS. POWER TRANSFER EQUIPMENT. (ATS/MTS) •
- FIRE-ALARM CONTROL PANEL AND ANNUNCIATORS • ALL JUNCTION BOXES. LABEL TO INCLUDE CIRCUIT NUMBERS (PANEL AND NUMBER). ALL LIGHTING SWITCH PLATES SHALL HAVE CIRCUIT NUMBERS ON THE BACK OF THE PLATE. (PANEL AND NUMBER).

## **DEMOLITION GENERAL NOTES**

- 1. THE LOCATIONS OF EXISTING CIRCUITS AND EQUIPMENT ARE SHOWN IN AN APPROXIMATE WAY ONLY AND HAVE NOT BEEN INDEPENDENTLY VERIFIED BY THE OWNER OR ITS REPRESENTATIVE. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING ELECTRICAL DEVICES, EQUIPMENT, AND WIRING BEFORE COMMENCING WORK AND AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE CAUSE BY THE CONTRACTOR'S
- FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL EXISTING PORTIONS OF THE ELECTRICAL SYSTEMS. THE CONTRACTOR SHALL REMOVE SUCH EXISTING WORK AS CALLED FOR ON THE DRAWINGS OR AS REQUIRED TO CLEAR
- THE AREAS OF NEW CONSTRUCTION. ALL EQUIPMENT REMOVED THAT IS NOT BEING REUSED SHALL REMAIN THE PROPERTY OF THE OWNER OR SHALL BE
- DISPOSED OF AS REQUIRED. PRIOR TO START OF CONSTRUCTION, CONTRACTOR SHALL WALK AREAS TO BE RENOVATED WITH OWNER TO IDENTIFY AND DOCUMENT ITEMS TO BE SALVAGED FOR OWNER'S USE. EXCEPT AS OTHERWISE NOTED. ALL EXISTING ELECTRICAL WORK WHICH WILL NOT BE RENDERED OBSOLETE AND WHICH MAY BE DISTURBED DUE TO ANY CHANGES REQUIRED UNDER THIS CONTRACT, SHALL BE RESTORED TO ITS ORIGINAL OPERATING CONDITION. OTHER ELECTRICAL WORK OR MATERIAL RENDERED OBSOLETE SHALL BE ABANDONED WHERE
- CONCEALED AND REMOVED WHERE EXPOSED. OLD, UNUSED WIRING AND DEVICES SHALL BE REMOVED FROM THE ABANDONED (CONCEALED) CONDUITS. OUTLETS SHALL BE PROVIDED WITH BLANK COVERS. ANY CONDUITS STUBBED OUT OF MASONRY SURFACE SHALL BE CUT INTO SURFACE AND PATCHED.
- WHERE EXISTING ELECTRICAL WORK INTERFERES WITH NEW WORK AND WHERE SUCH INSTALLATIONS ARE TO REMAIN IN USE, THE INSTALLATIONS SHALL BE DISCONTINUED AND RELOCATED AND/OR RECONNECTED TO COORDINATE WITH THE WORK INDICATED ON THE CONTRACT DRAWINGS AS SPECIFIED.
- WHERE EXISTING RACEWAYS THAT ARE NOT TO BE REUSED INTERFERE WITH NEW WORK, THESE RACEWAYS SHALL BE 6. REMOVED BACK TO THE NEAREST JUNCTION BOX OR PULL BOX AND THE OPENINGS BLANKED.
- CONTRACTOR SHALL MAINTAIN CONTINUITY OF BRANCH CIRCUITS SERVING MULTIPLE ITEMS OF WHICH ONE OR MORE ARE BEING DEMOLISHED. CONDUCTORS AND CONDUITS FOR THOSE ITEMS BEING DEMOLISHED SHALL BE REMOVED AS FAR AS PRACTICABLE.
- IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO REMOVE ALL EXISTING ELECTRICAL DEVICES/EQUIPMENT AND DATA 8. WIRING NOT REUSED OR NOT NECESSARY FOR THE COMPLETION OF THIS PROJECT.
- DISCONNECT AND REMOVE ABANDONED PANELBOARDS, DISTRIBUTION EQUIPMENT, LIGHTING, AND DEVICES. REMOVE 9. ASSOCIATED CONDUIT TO NEAREST ABOVE CEILING JUNCTION BOX. 10. IF ANY BRANCH CIRCUIT WIRING FEEDING EQUIPMENT TO REMAIN IN PLACE FOR REUSE IS DAMAGED DURING
- CONSTRUCTION, THE CONTRACTOR SHALL REPLACE THE NEW BRANCH CIRCUIT WIRING OF THE SAME SIZE AND TYPE AS THAT OF THE EXISTING AT NO COST TO THE OWNER.
- EXISTING DEVICES ARE SHOWN IN GRAY. CONDUIT AND WIRING ARE NOT GENERALLY SHOWN AND SHALL BE THE 11 RESPONSIBILITY OF THE CONTRACTOR. ADDITIONAL DEMOLITION WORK AND CLARIFICATION OF INDICATED WORK WILL BE GIVEN BY REI
- COORDINATE THE REMOVAL AND REINSTALLATION (OR PROTECTION IN PLACE) OF EXISTING ELECTRICAL EQUIPMENT AND 12 DEVICES WITH THE WORK OF OTHER TRADES TO REPLACE OR REFINISH EXISTING WALLS AND CEILINGS. WHERE EXISTING CIRCUITS ARE BEING REMOVED IN EXISTING PANELS, PROVIDE A NEW, NEATLY TYPED DIRECTORY 13. WHICH INDICATES WHERE "SPARE" BREAKERS ARE LOCATED. ANY EXISTING BREAKERS THAT ARE NOT FEEDING DEVICES

SHALL REMAIN AND BE LABELED AS A "SPARE."

![](_page_15_Picture_58.jpeg)

![](_page_15_Figure_60.jpeg)

![](_page_16_Figure_0.jpeg)

DEMO KEYED NOTES:

2 CONTRACTOR SHALL DEMOLISH ALL RECEPTACLES IN AREA

![](_page_16_Figure_7.jpeg)

![](_page_16_Picture_9.jpeg)

![](_page_17_Figure_0.jpeg)

![](_page_17_Picture_1.jpeg)

![](_page_17_Figure_3.jpeg)

![](_page_18_Figure_0.jpeg)

![](_page_19_Figure_0.jpeg)

16		17	18			19
				г		
	<u>G</u>	ENERAL DEMO NOTE			<u>DEMO KEY</u>	
1.	CONTRACTOR ALL OTHER EL OTHERWISE N DEMOLITION N	SHALL DEMOLISH ALL RECEPTACLES, ECTRICAL DEVICES ON WALLS TO BE D OTED. REFER TO ARCHITECTURAL PLA OTES.	DATA OUTLETS, AND DEMOLISHED UNLESS ANS FOR FUTHER	<	1 EXI PAN EXI	STING RECESSED 208V 1Ø PANE NEL "208C (CX-2)". CONTRACTOR STING BREAKER TO MAKE ROON
2.	CONTRACTOR SWITCHES, ET	SHALL DEMO ALL LIGHTING FIXTURES C. IN AREA OF WORK UNLESS OTHERV	, CONTROLS, VISED NOTED.	<	2 COI RE- KE	ALTERNATE #1: CONTRACTOR 3 NTRACTOR SHALL PROTECT EXI USE UNLESS OTHERWISE NOTE (ED NOTES ON SHEET E5.0 FOR
3.	CONTRACTOR WORK UNLESS	SHALL DEMO ALL FIRE ALARM DEVICE S OTHERWISED NOTED.	S, ETC. IN AREA OF	L		
4.	CONTRACTOR	SHALL DEMO EXISTING NURSE CALL S	SYSTEM, FIRE ALARM			

![](_page_19_Picture_4.jpeg)

![](_page_20_Figure_0.jpeg)

16		17	18			19				
	G	ENERAL DEMO NOTE	] [	DEMO KEYED N						
1.	CONTRACTOR ALL OTHER EL OTHERWISE N DEMOLITION N	SHALL DEMOLISH ALL RECEPTACLE ECTRICAL DEVICES ON WALLS TO BE OTED. REFER TO ARCHITECTURAL P OTES.	S, DATA OUTLETS, AND E DEMOLISHED UNLESS PLANS FOR FUTHER	STING RECESSED 208V 1Ø PANEL TO NEL "208C (CX-2)". CONTRACTOR SHAL STING BREAKER TO MAKE ROOM FOR	BE D L DI NE\					
2.	CONTRACTOR SWITCHES, ET	SHALL DEMO ALL LIGHTING FIXTURE C. IN AREA OF WORK UNLESS OTHEI	ES, CONTROLS, RWISED NOTED.		2 CO RE- KE	ALTERNATE #1: CONTRACTOR SHALL NTRACTOR SHALL PROTECT EXISTING USE UNLESS OTHERWISE NOTED. RE YED NOTES ON SHEET E5.0 FOR MORE	_ DIS G CO FER E INF			
3.	CONTRACTOR	SHALL DEMO ALL FIRE ALARM DEVIC OTHERWISED NOTED.	CES, ETC. IN AREA OF							
4.	CONTRACTOR SYSEM, AND IN	SHALL DEMO EXISTING NURSE CALL ITERCOM SYSTEM IN AREA OF WORI	_ SYSTEM, FIRE ALARM K.							

THOMPSON LUKE & ASSOCIATES, L.L.C. 10705 Rieger Road., STE 101 BATON ROUGE, LA 70809 (225)293-9474 TLA PROJECT # 25-002 Frank Saville Thompson - License No. 28854 Landon David Burns - License No. 46484 19 18

![](_page_20_Figure_3.jpeg)

![](_page_21_Figure_0.jpeg)

14 15	16	17	18		19
GENERAL X-RAY NOTES:		X-RAY KEYED NOT	<u>ES:</u>		
CTIONS AND NOTES; REFER TO MANUFACTURER PROVIDED X-RAY PLANS. S SHALL BE CONSTRUCTED OF 3/16" ALUMINUM OR EQUIVALENT, AND SHALL BE SPONDING JUNCTION BOX BY A MINIMUM OF 1" ON ALL SIDES. EDGES SHALL BE IEATLY CONFIGURED.	<ul> <li>JB-1: 12"X12"X4" METAL JUNCTIO TO CENTER ABOVE FINISHED FI COORDINATE EXACT LOCATION</li> <li>E-1: 4-PLEX 120VAC DEDICATED COORDINATE EXACT LOCATION</li> </ul>	ON BOX WITH COVER OPENING TO X-R LOOR. COVER IS TO HAVE 2 EACH 2" H I WITH X-RAY EQUIPMENT PROVIDER F I CIRCUIT TO RUN FROM A-2 TO E-1 CE I WITH X-RAY EQUIPMENT PROVIDER F	RAY ROOM. SURFACE MOUNTED ON W IOLES WITH NIPPLE, LOCK NUTS, AND PRIOR TO ROUGH-IN. INTERED AT 18" ABOVE FINISHED FLOO PRIOR TO ROUGH-IN.	'ALL AT 36" BUSHINGS. OR.	1 CONTRACTOR PLACE OF EXIS DEMOLISHED II EXISTING CIRC
	C D-1: NETWORK DROP CENTERE EQUIPMENT PROVIDER PRIOR T	D AT 18" ABOVE FINISHED FLOOR. CO TO ROUGH-IN.	ORDINATE EXACT LOCATION WITH X-F	RAY	
GENERAL ELECTRICAL NOTES:         1.       ALL RECEPTACLES SHALL BE TAMPER RESISTANT.	<ul> <li>JB-2: 6"X6"X4" METAL JUNCTION 24" TO CENTER ABOVE FINISHE NUTS, AND BUSHINGS. COORDI</li> <li>C-1: CONDUIT FROM EXISTING F WITH 75A RATING WITH AN EQUINFORMATION. COORDINATE RO</li> <li>C-2: CONDUIT FROM A-2 TO JB- MORE INFORMATION. COORDINATE RO</li> </ul>	BOX WITH COVER OPENING TO CONT D FLOOR. COVER SHALL HAVE 1 EACH NATE EXACT LOCATION WITH X-RAY E PANEL "MRI" TO JB-1 TO ACCOMMODAT IPMENT GROUND OF SAME RATING. S DUTE OF CONDUIT WITH X-RAY EQUIP 1 TO ACCOMMODATE 2 EACH 20A 120V ATE ROUT OF CONDUIT WITH X-RAY EQUIP	TROL BOOTH. SURFACE MOUNTED ON 1 1 1/2" HOLES IN CENTER WITH NIPPLI QUIPMENT PROVIDER PRIOR TO ROU TE 4 EACH STRANDED COPPER COND SEE "MRI" PANEL SCHEDULE FOR MOR MENT PROVIDER PRIOR TO ROUGH-IN ( CIRCUITS. SEE "A2" PANEL SCHEDUL COLUMENT PROVIDER PRIOR TO ROU	I WALL AT ES, LOCK GH-IN. UCTORS E I. E FOR GH-IN	
	G C-3: 1 1/2" CONDUIT FROM JB-1	TO JB-2 WITH PULL STRING.		οτη-π <b>ν</b> . 20Δ	

![](_page_22_Figure_0.jpeg)

![](_page_22_Picture_1.jpeg)

![](_page_22_Figure_2.jpeg)

![](_page_23_Figure_0.jpeg)

![](_page_24_Figure_0.jpeg)

PATIENT RESTROOM

		HALL 1. ALL RECEPTACIES SHALL BE TAMPER RES		
	BE RED TO INDICATE EMERGENCY; HOWEVER THE ENTIRE BUILDING IS BACKED UP BY THE EXISTING GENERATOR.	NOTED.		
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CORRIDOR 474				
206N-5				
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NURSE'S RESTROOM				
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207N-26				
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17

14

![](_page_24_Picture_5.jpeg)

NOT IN CONTRACT

![](_page_25_Figure_0.jpeg)

13	14	15	15 16 17 18				
			[	GENERAL ELEC	CTRICAL NOTES:	ELECTRICAL	KEYE
				1. ALL RECEPTACLES IN PUBLIC AF UNLESS OTHERWISE NOTED.	REAS SHALL BE TAMPER RESISTANT	PROVIDE CONDUIT/V WALL BOX. REFER TO	VIRE BETWE

![](_page_25_Figure_3.jpeg)

![](_page_25_Figure_4.jpeg)

![](_page_26_Figure_0.jpeg)

	12 13 14			15			16	17	18	19	
	TING FIXTURE SCHEDULE										
FINISH T	O BE SELECTED BY ARCHITECT   CONTRACTOR IS RESPONSIBLE FOR DETERMINING EXACT QTY.										
									APPROVED FIXTURES		
MARK	DESCRIPTION	LAMPS	VOLTS	LOAD	TEMP.	LUMENS	MOUNTING		OPTION 1		OPTION
A1	SELECTABLE LUMEN/COLOR TEMP 2'X4' LED FLAT PANEL. LOW LUMEN.	LED	UNV	60 VA	3,500	3,500	GRID	LITHONIA	CATALOG NO. CPX-2X4-AL08-80CRI-SWW7-SWL-MVOLT	MANUFACTUREF	2
A1E	SELECTABLE LUMEN/COLOR TEMP 2'X4' LED FLAT PANEL. COORDINATE LOCATION OF REMOTE TEST SWITCH WITH ARCHITECT PRIOR TO INSTALLATION.	LED	UNV	60 VA	3,500	3,500	GRID	LITHONIA	CPX-2X4-AL08-80CRI-SWW7-SWL-MVOLT-E10WLC	METALUX	24(
A2	RECESSED MOUNTED SELECTABLE LUMEN/COLOR TEMP 2'X4' LED FLAT	LED	UNV	60 VA	3,500	6,000	RECESSED	LITHONIA	CPX-2X4-AL08-80CRI-SWW7-SWL-MVOLT-DGA24	METALUX	24MSS
A2E	RECESSED MOUNTED SELECTABLE LUMEN/COLOR TEMP 2'X4' LED FLAT PANEL. COORDINATE LOCATION OF REMOTE TEST SWITCH WITH ARCHITECT PRIOR TO INSTALLATION HIGH LUMEN PROVIDE UL 924 DEVICE	LED	UNV	60 VA	3,500	6,000	RECESSED	LITHONIA LIGHTING	CPX-2X4-AL08-80CRI-SWW7-SWL-MVOLT-E10WLC P-DGA24	METALUX	24MSS
B1	SELECTABLE LUMEN/COLOR TEMP 2'X2' LED FLAT PANEL. LOW LUMEN.	LED	UNV	20 VA	3,500	2,700	GRID	LITHONIA	CPX-2X2-AL07-80CRI-SWW7-SWL-MVOLT	METALUX	
B1E	SELECTABLE LUMEN/COLOR TEMP 2'X2' LED FLAT PANEL. COORDINATE LOCATION OF REMOTE TEST SWITCH WITH ARCHITECT PRIOR TO INSTALLATION. LOW LUMEN. PROVIDE UL924 DEVICE.	LED	UNV	20 VA	3,500	2,700	GRID	LITHONIA LIGHTING	CPX-2X2-AL07-80CRI-SWW7-SWL-MVOLT-E10WLC P	METALUX	220
B2	SELECTABLE LUMEN/COLOR TEMP 2'X2' LED FLAT PANEL. MEDIUM LUMEN.	LED	UNV	20 VA	3,500	3,500	GRID	LITHONIA LIGHTING	CPX-2X2-AL07-80CRI-SWW7-SWL-MVOLT	METALUX	
B2E	SELECTABLE LUMEN/COLOR TEMP 2'X2' LED FLAT PANEL. COORDINATE LOCATION OF REMOTE TEST SWITCH WITH ARCHITECT PRIOR TO INSTALLATION. MEDIUM LUMEN. PROVIDE UL924 DEVICE.	LED	UNV	20 VA	3,500	3,500	GRID	LITHONIA LIGHTING	CPX-2X2-AL07-80CRI-SWW7-SWL-MVOLT-E10WLC P	METALUX	220
B3	SELECTABLE LUMEN/COLOR TEMP 2'X2' LED FLAT PANEL. HIGH LUMEN.	LED	UNV	20 VA	3,500	4,500	GRID	LITHONIA LIGHTING	CPX-2X2-AL07-80CRI-SWW7-SWL-MVOLT	METALUX	
B3E	SELECTABLE LUMEN/COLOR TEMP 2'X2' LED FLAT PANEL. COORDINATE LOCATION OF REMOTE TEST SWITCH WITH ARCHITECT PRIOR TO INSTALLATION. HIGH LUMEN. PROVIDE UL924 DEVICE.	LED	UNV	20 VA	3,500	4,500	GRID	LITHONIA LIGHTING	CPX-2X2-AL07-80CRI-SWW7-SWL-MVOLT-E10WLC P	METALUX	220
C1	SELECTABLE LUMEN/COLOR TEMP 6" LED DOWNLIGHT MEDIUM LUMEN.	LED	UNV	20 VA	3,500	2,000	RECESSED	LITHONIA LIGHTING	LBR6-NCH-ALO3-SWW1-AR-LSS-MWD-MVOL	HALO	HCDJB
C1E	SELECTABLE LUMEN/COLOR TEMP 6" LED DOWNLIGHT. PROVIDE UL924 DEVICE.	LED	UNV	20 VA	3,500	2,000	RECESSED	LITHONIA LIGHTING	LBR6-NCH-ALO3-SWW1-AR-LSS-MWD-MVOLT-UG Z-ELR	HALO	HCDJB
C2	SELECTABLE LUMEN/COLOR TEMP 6" LED DOWNLIGHT LOW LUMEN.	LED	UNV	20 VA	3,500	1,500	RECESSED	LITHONIA LIGHTING	LBR6-NCH-ALO3-SWW1-AR-LSS-MWD-MVOL	HALO	HCDJB
C2E	SELECTABLE LUMEN/COLOR TEMP 6" LED DOWNLIGHT. LOW LUMEN. PROVIDE UL924 DEVICE.	LED	UNV	20 VA	3,500	1,500	RECESSED	LITHONIA LIGHTING	LBR6-NCH-ALO3-SWW1-AR-LSS-MWD-MVOLT-UG Z-ELR	HALO	HCDJB
D	4FT WALL MOUNTED STRIP LIGHT. PROVIDE SURFACE MOUNT HARDWARE AS REQUIRED.	LED	UNV	45 VA	3,500	5,000	WALL	MARK LIGHTING	S4WI-LLP-4FT-MSL4-I80CRI-I35K-1300LMF	NEO RAY	S124IW
FE	SURFACE MOUNTED SELECTABLE LUMEN/COLOR TEMP 1'X4' LED FLAT PANEL. COORDINATE LOCATION OF REMOTE TEST SWITCH WITH ARCHITECT PRIOR TO INSTALLATION. MEDIUM LUMEN. PROVIDE UL924 DEVICE. PROVIDE SURFACE MOUNT KIT AS REQUIRED.	LED	UNV	45 VA	3,500	3,500	SURFACE	LITHONIA LIGHTING	CPX-1X4-AL07-80CRI-SWW7-SWL-MVOLT-E7W	METALUX	140
G	4' LED STRIP LIGHT WITH SEMI-FROSTED LENS. PROVIDE SUSPENSION HARDWARE AS REQUIRED.	LED	UNV	30 VA	3,500	5,000	SUSPENDED	LITHONIA LIGHTING	CSS-L48-AL03-MVOLT-SWW3-80CRI	COOPER	4
GE	4' LED STRIP LIGHT WITH SEMI-FROSTED LENS. PROVIDE UL924 DEVICE. PROVIDE SUSPENSION HARDWARE AS REQUIRED.	LED	UNV	30 VA	3,500	5,000	SUSPENDED	LITHONIA LIGHTING	CSS-L48-AL03-MVOLT-SWW3-80CRI	COOPER	4SL
Н	SELECTABLE LUMEN/COLOR TEMP 1'X4' LED FLAT PANEL. MEDIUM LUMEN. PROVIDE SURFACE MOUNTED KIT AS REQUIRED.	LED	UNV	45 VA	3,500	3,500	SURFACE	LITHONIA LIGHTING	CPX-1X4-AL07-80CRI-SWW7-SWL-MVOLT	METALUX	14MMS
HE	SELECTABLE LUMEN/COLOR TEMP 1'X4' LED FLAT PANEL. COORDINATE LOCATION OF REMOTE TEST SWITCH WITH ARCHITECT PRIOR TO INSTALLATION. MEDIUM LUMEN. PROVIDE UL924 DEVICE. PROVIDE SURFACE MOUNTED KIT AS REQUIRED.	LED	UNV	45 VA	3,500	3,500	SURFACE	LITHONIA LIGHTING	CPX-1X4-AL07-80CRI-SWW7-SWL-MVOLT-E7W	METALUX	14MMS
К	GRID MOUNTED WET LOCATION ANTIMICROBIAL 1X4.	LED	UNV	50 VA	3,500	3,500	GRID	HEALTHCARE	HSTL 1X4 GRID MVOLT 5000 35K 80CRI ZT MIN10	VYV TECH	VYV-VS
K1E	RECESSED WET LOCATION ANTIMICROBIAL 1X4.	LED	UNV	50 VA	3,500	3,500	RECESSED	HEALTHCARE	HSTL 1X4 F MVOLT 5000 35K 80CRI ZT MIN10 E10WLCP	VYV TECH	VYV-VS
KE	GRID MOUNTED WET LOCATION ANTIMICROBIAL 1X4. PROVIDE UL924 DEVICE.	LED	UNV	50 VA	3,500	3,500	GRID	HEALTHCARE	HSTL 1X4 GRID MVOLT 5000 35K 80CRI ZT MIN10 E10WLCP	VYV TECH	VYV-V
L	RECESSED WET LOCATION ANTIMICROBIAL 2X4.	LED	UNV	170 VA	3,500	8,000	RECESSED	HEALTHCARE	HSTL 2X4 F MVOLT 7000LM 35K 80CRI ZT MIN10	VYV TECH	VSM
LE	RECESSED WET LOCATION ANTIMICROBIAL 2X4. PROVIDE UL924 DEVICE.	LED	UNV	170 VA	3,500	8,000	RECESSED	HEALTHCARE	HSTL 2X4 F MVOLT 7000LM 35K 80CRI ZT MIN10 E10WLCP	VYV TECH	VSM-24
М	WET LOCATION ANTIMICROBIAL 2X2.	LED	UNV	80 VA	3,500	4,000	GRID	HEALTHCARE	HSTL 2X2 GRID MVOLT 3000 35K 80CRI ZT MIN10	VYV TECH	VSM-2
ME	WET LOCATION ANTIMICROBIAL 2X2. PROVIDE UL924 DEVICE.	LED	UNV	80 VA	3,500	4,000	GRID	HEALTHCARE	HSTL 2X2 GRID MVOLT 3000 35K 80CRI ZT MIN10 E10WLCP	VYV TECH	VSM-22
Р	RECESSED 6" ANTIMICROBIAL DOWNLIGHT	LED	UNV	35 VA	3,500	1,500	RECESSED	-	-	VYV TECH	VYV-V\$
Х	EXIT SIGN WITH RED LETTERS. PROVIDE WITH NUMBER OF FACES AND DIRECTIONAL ARROWS AS INDICATED. FIXTURE SHALL BE PROVIDED WITH INTEGRAL BATTERY BACKUP AND SELF-DIAGONSTICS.	LED	UNV	1 VA	N/A	N/A	CEILING/WALL	LITHONIA LIGHTING	LQM	SURE LITES	

![](_page_26_Figure_2.jpeg)

![](_page_26_Figure_3.jpeg)

g

![](_page_26_Figure_5.jpeg)

![](_page_26_Picture_6.jpeg)

![](_page_27_Figure_0.jpeg)

# LIGHTING KEYED NOTES: 1 REFER TO MECHANICAL'S FAN SCHEDULE NOTES FOR INDICATION OF LOCATION (ROOFTOP OR CABINET) AND MEANS OF CONTROL. IF EXHAUST FAN SHALL BE INTERCONNECTED TO LIGHTING CIRCUIT FOR CONTROLS, PROVIDE A TRANSFORMER AND OR RELAY AS REQUIRED SUCH THAT THE EXHAUST FAN IS POWERED WHILE THE

LIGHTS ARE POWERED.

![](_page_27_Picture_6.jpeg)

![](_page_27_Figure_8.jpeg)

![](_page_28_Figure_0.jpeg)

	-8		N-13	S 19 3	19 OR	A <sup>2</sup> S	
	A1			206N-1			
A1 COF 335 335 335 335 337 337 337 337	NIZATION 430 B3 C-8 E J-24S		B2 VS B2	B2 3	B2E 206C-19 VS B2		
RIDOR       A1E         469       207C-8         B3E       207C-8         MMUNIZATION       433         B3       B3	207C-9 IMMUNIZATION 431 B3 207C-8 B3E S207N-2	B2 CLERICAL SUPPORT 425 B2E 207C-9 I-14 S206N-21	B2 CLEANING SUPPLY STOR 424 B2 B2	B2	B2 0FF B2E 206C-19	A1E 206C-19	
Y2       B1         4       B3         B3       B3	207C-8 B3E SHARPS STORAG B3 435 HE		AGE B2 AGE IZ-N900Z B2 S B2 S		ICE SUPPLY ROOM		
B1 MED. SUPPLY 436 EC. 36A B1 2 3 207N-33 B3 B3 B3 B3 B3 K K K	207C- 207C- X E S E S E NLOZ 2 B1	A1E 207C-9 OS A1 CC	B2 VESTIBULI 476B B2E 206C-19	VS 206C B2E S206N	B2 B2	A1 OS 2	
B1 B1 B1 B1 B1 B1 B1 B1 B1 B1 B1 B1 B1 B	9 B1E 207C-8	06N-14 NOT IN SCOPE	B2E 206C-19 0S B2	19 -21-		A1E 206C-19	
B3 B3 B3 B3 B3 FILE STORA 3 444	B3	FE S 207C	S12-N902 B2E 206C	B2	B2	A1	
D3 207C- B3E 3 C20Th <sup>35</sup> 3 C20Th <sup>35</sup> 9 C20	\$2071 4 B3E 207C-5	HE 207C-9 C. ELEC 6 FE 427 -9 \$ 207C-9	-19 -19 -0S				
B3 9 CORRIDOR 487 CORRIDOR 487 CORRIDOR 487 CORRIDOR 487 CORRIDOR 487 CORRIDOR 487 CORRIDOR 487 CORRIDOR 487 CORRIDOR 487 CORRIDOR 487 CORRIDOR 487 CORRIDOR 487 CORRIDOR 487 CORRIDOR 487 CORRIDOR 487 CORRIDOR 487 CORRIDOR 487 CORRIDOR 487 CORRIDOR 487 CORRIDOR CORRIDOR CORRIDOR CORRIDOR CORRIDOR CORRIDOR CORRIDOR CORRIDOR CORRIDOR CORRIDOR CORRIDOR CORRIDOR CORRIDOR CORRIDOR CORRIDOR CORRIDOR CORRIDOR CORRIDOR CORRIDOR CORRIDOR CORRIDOR CORRIDOR CORRIDOR CORRIDOR CORRIDOR CORRIDOR CORRIDOR CORRIDOR CORRIDOR CORRIDOR CORRIDOR CORRIDOR CORRIDOR CORRIDOR CORRIDOR CORRIDOR CORRIDOR CORRIDOR CORRIDOR CORRIDOR CORRIDOR CORRIDOR CORRIDOR CORRIDOR CORRIDOR CORRIDOR CORRIDOR CORRIDOR CORRIDOR CORRIDOR CORRIDOR CORRIDOR CORRIDOR CORRIDOR CORRIDOR CORRIDOR CORRIDOR CORRIDOR CORRIDOR CORRIDOR CORRIDOR CORRIDOR CORRIDOR CORRIDOR CORRIDOR CORRIDOR CORRIDOR CORRIDOR CORRIDOR CORRIDOR CORRIDOR CORRIDOR CORRIDOR CORRIDOR CORRIDOR CORRIDOR CORRIDOR CORRIDOR CORRIDOR CORRIDOR CORRIDOR CORRIDOR CORRIDOR CORRIDOR CORRIDOR CORRIDOR CORRIDOR CORRIDOR CORRIDOR CORRIDOR CORRIDOR CORRIDOR CORRIDOR CORRIDOR CORRIDOR CORRIDOR CORRIDOR CORRIDOR CORRIDOR CORRIDOR CORRIDOR CORRIDOR CORRIDOR CORRIDOR CORRIDOR CORRIDOR CORRIDOR CORRIDOR CORRIDOR CORRIDOR CORRIDOR CORRIDOR CORRIDOR CORRIDOR CORRIDOR CORRIDOR CORRIDOR CORRIDOR CORRIDOR CORRIDOR CORRIDOR CORRIDOR CORRIDOR CORRIDOR CORRIDOR CORRIDOR CORRIDOR CORRIDOR CORRIDOR CORRIDOR CORRIDOR CORRIDOR CORRIDOR CORRIDOR CORRIDOR CORRIDOR CORRIDOR CORRIDOR CORRIDOR CORRIDOR CORRIDOR CORRIDOR CORRIDOR CORRIDOR CORRIDOR CORRIDOR CORRIDOR CORRIDOR CORRIDOR CORRIDOR CORRIDOR CORRIDOR CORRIDOR CORRIDOR CORRIDOR CORRIDOR CORRIDOR CORRIDOR CORRIDOR CORRIDOR CORRIDOR CORRIDOR CORRIDOR CORRIDOR CORRIDOR CORRIDOR CORRIDOR CORRIDOR CORRIDOR CORRIDOR CORRIDOR CORRIDOR CORRIDOR CORRIDOR CORRIDOR CORI	207C-9 N-33 LAB 437	H POST 42 HE 207C	B2 B2 B2E 206C-19	206C-19 B2	B2 B2 B2E		
EF-9 207C-8 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	B3	AGE 8 5207N-33		FILE ROOM 429		A1E OS 6C-19	
P P 2	B3 207C-9 B3E 3 S <sup>2</sup>	B3 B3 B3 S S S S S S S S S S S S S S S S	B2É 206C-19 B2	B2	B2	A1	
TB 446 PO C 9 PO		7N-33	<u> </u>	©\$	OS		
EQUIP 44776 201 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		B3 OFFICE 229B B3 \$207N-3 \$206N 4	B2 B2 B2	206C-19 B2	B2		
P P P P P P P P P P P P P P P P P P P		206C- 0S A1 33 206C-15 -14 A1E		206C-		A1E 206C-19	
	× 3 5 2 3 5 2 3 2 3 2 3 5 2 3 2 3 2 3 2 3 2 3 2 3 2 3 2 3	19 CORRIDOR 475 9 OS A1		-19	A1	206N-13	
P NURSES		B3 2060	G	G	216N-40		
NURSE'S BR 444 RESTROOM 488 ATTEINT RESTRO	206C-19 \$216N-36 CUSTODIAL 449	DATA 477C E 206N-15S	3		A1 (		
		206C-19	G	G	206C-19	206N-14	
		206N-14S					
	X STAIR 2 202	A1E				A1 / E3.3	
	RECONNECT NEAREST EX CIRCUITRY. F THWN, & 1#1						
	"NEW LIGHTI ISTING STAIF PROVIDE 3/4" 2 GND AS RE						
	NG FIXTURES TO R LIGHTING CONDUIT, 2#12 QUIRED.						
		CORRIDO 478					

LIGHTING KEYED NOTES:
1 REFER TO MECHANICAL'S FAN SCHEDULE NOTES FOR INDICATION OF LOCATION (ROOFTOP OR CABINET) AND MEANS OF CONTROL. IF EXHAUST FAN SHALL BE INTERCONNECTED TO LIGHTING CIRCUIT FOR CONTROLS, PROVIDE A TRANSFORMER AND OR RELAY AS REQUIRED SUCH THAT THE EXHAUST FAN IS POWERED WHILE THE LIGHTS ARE POWERED.

18

17

2 EXHAUST FAN LOCATED ON ROOF. EXHAUST FAN SHALL ALWAYS BE ON. PROVIDE 30A/3P HEAVY DUTY WEATHERPROOF TOGGLE SWITCH FOR LOCAL MEANS OF DISCONNECT.

![](_page_28_Figure_4.jpeg)

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14

В3 B3E 206C-19 DATA 477C B3E 206C-19 B3 206N-15S /206N-1 206C-19 \$216N-36 CUSTODIAL RECONNECT NEW LIGHTING FIXTURES TO NEAREST EXISTING STAIR LIGHTING CIRCUITRY. PROVIDE 3/4" CONDUIT, 2#12 THWN, & 1#12 GND AS REQUIRED. STAIR ( 449 NURSE'S BREAK ROOM 448 PATIENT RESTROOM 447B

![](_page_28_Picture_6.jpeg)

![](_page_28_Figure_7.jpeg)

![](_page_29_Figure_0.jpeg)

![](_page_29_Figure_1.jpeg)

![](_page_29_Figure_2.jpeg)

![](_page_29_Figure_3.jpeg)

![](_page_29_Picture_4.jpeg)

![](_page_29_Figure_5.jpeg)

![](_page_30_Figure_0.jpeg)

![](_page_30_Figure_1.jpeg)

SPECIAL SYSTEMS GENERAL NOTES: PROVIDE 30A SINGLE POLE SINGLE THROW MOTOR RATED TOGGLE SWITCH LOCATED AS REQUIRED FOR LOCAL MEANS OF DISCONNECT FOR EACH VAV.

![](_page_30_Figure_3.jpeg)

![](_page_31_Figure_0.jpeg)

![](_page_31_Figure_3.jpeg)

![](_page_31_Picture_4.jpeg)

used for the project and site specifically These plans were prepared in this office under our personal supervision, and to the best of our knowledge comply with state and local codes. We will generally administer construction. Bjae 38 BF TON 766 4 **R** 346 BA 25 Δ Ω

03.06.202 PROJECT ARCHITECT: LDE DRAWN BY: SHEET NO. E4.1 m of

\_\_\_\_\_

BM

![](_page_32_Figure_0.jpeg)

Image: Sector of the sector	VAV-1-9 206N-19	VAV-1-11 206N-19		MATCHLINE 1 / E4.3
Image:	I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I	-10       -10         19       -10         19       -10         19       -10         19       -10         19       -10         19       -10         19       -10         19       -10         19       -10         19       -10         19       -10         19       -10         10       -10         19       -10         19       -10         19       -10         10       -10         19       -10         19       -10         19       -10         19       -10         10       -10         10       -10         10       -10         10       -10         10       -10         10       -10         10       -10         10       -10         10       -10         10       -10         10       -10         10       -10         10       -10         10       -10 <t< th=""><th>AHU-1 1 1 1 1 1 1 1 1 1 1 1 1 1</th><th></th></t<>	AHU-1 1 1 1 1 1 1 1 1 1 1 1 1 1	
CLEANING SUPPLY STORAGE  CLEANING SUPPLY STORAGE  424  VAV-1-4 206N-18	YAV-1-5         206N-18         YAV-1-6         206N-16	WAP       Image: Constraint of the second seco	S       A         S       A         S       A         A       A         A       A         A       A         A       A         A       A         A       A         A       A         A       A         A       A         A       A         A       A         A       A         A       A         A       A         A       A         A       A         A       A         A       A         A       A         A       A         A       A         A       A         A       A         A       A         A       A         A       A         A       A         A       A         A       A         A       A         A       A         A       A         A       A         A       A         A       A         A	
CLERICAL SUPPORT	ELEC         ELEC         428           426         427         428           426         427         428           426         427         428           428         427         428           428         427         428           428         427         428           428         427         428           428         427         428           428         427         427           S         S         S           VAV-2-16         206N-16           CR         CR	NOT IN       SCOPE       CR       CR       AHU-2       40HP 480/277V 30		DH S S F X H H H H H H H H H H H H H H H H H H
XAV-2-13   XAV-2-13   207N-34   IMMUNIZATION   430   430   430   430   430   430   430   430   430   430   430   430   430   430   430	14     VA       16     LAB       WAP     437	V.2.15 6N-16 S	VAV-2-23 207N-35 Q	
IMMUNIZATION     436       434     436       2-12     Q       34     Q	S CORRIDOR 487	S EQUIP. 447A EQUIP. 446A VAV-2-21 207N-35 0 0	NURSE'S BREAK ROOM	
NURSE'S STATION     438       438     438       Q     WAP       AV-2-11     438       07N-34     438	S S EILE STOPACE	TB 446 Q TB TB A 446 PATIENT RESTROOM 446B 446B		
		RESTROOM 43B		

![](_page_32_Picture_3.jpeg)

![](_page_32_Figure_4.jpeg)

- 13

14

![](_page_32_Picture_5.jpeg)

- 18

![](_page_33_Figure_0.jpeg)

10	
SPECIAL SYSTEMS KEYE	ED N
1 BID ALTERNATE #1: AHU FURNISHED BY DIV 2 CONNECTED BY DIV 26. CONTRACTOR SHALL CONDUCTORS PROTECTED DURING DEMOLIT UNLESS OTHERWISE NOTED; SEE RISER DIAG MORE INFORMATION.	23. ahu Re-Us Fion Fi Gram I
SPECIAL SYSTEMS GENE	RAL
1. PROVIDE 30A SINGLE POLE SINGLE THRO TOGGLE SWITCH LOCATED AS REQUIRED DISCONNECT FOR EACH VAV.	DW MC D FOR

![](_page_33_Picture_4.jpeg)

![](_page_33_Figure_5.jpeg)

![](_page_33_Figure_6.jpeg)

![](_page_34_Figure_0.jpeg)

			7				8	3			9				10		11		1	2	1	3	14			15			16
									] [			Bra	anch	Pa	nel: A	2													
Rat Rat Rat	ing: 10 ing: 15 ing: 15	,000 0 A 0 A								Panel	Schedule	Notes:	Numbe	Lo Supply Mo Enc r of Se	cation: ME From: T-A unting: SU losure: NE ctions: 1	— CHANICAL 492 2 RFACE MA-1				Volts: 120/20 Phases: 3 Wires: 4	8 Wye		A.I.C. Mains MCB	Rating: 10,000 Rating: 175 A Rating: 175 A					
	COND								-					CND	CONDUIT	Circuit De				B		<u> </u>		CONDUIT	CND				
	COND		טאפ	WIKE					-				3 VVIRE	<b>GND</b> #12	2/4"					D					<b>GND</b> #12	2#12	POLES		
					1	20 A			-		1 20 A 3 20 A	1	2#12	#12 #12	3/4	120V X-RAY CIR		0.5 KVA	0.5 KVA		/Δ		120V X-RAY CIRCUIT-1	3/4	#12 #12	2#12	1	20 A	<u> </u>
					1		6		-		5 20 A	1	2#12	#12	3/4"	120V X-RAY C	IRCUIT-4			0.0 KV/ 0.0 K	0.5 kVA	0.4 kVA	RECEPT DRESS/MECH	3/4"	#12	2#12	1	20 A	6
					1		8		-		7 20 A	1	2#12	#12	3/4"	RECEPT WAIT	ING	1.1 kVA	0.4 kVA				VAVS	3/4"	#12	2#12	1	20 A	8
					1		1(	)			9 20 A	1	2#12	#12	3/4"	LIGHTING				0.6 kVA 0.0 k	/A		SPARE				1	20 A	10
					1		12	2			11 20 A	. 1				SPARE					0.0 kVA	0.0 kVA	SPARE				1	20 A	12
					1		14	4			13 20 A	. 1				SPARE		0.0 kVA	0.0 kVA				SPARE				1	20 A	14
					1		16	3			15 20 A	. 1				SPARE				0.0 kVA 0.0 kV	/A		SPARE				1	20 A	16
					3	150 A	A 18	3	-		17 20 A	1				SPARE					0.0 kVA	0.0 kVA	SPARE				1	20 A	18
							20	)	-		19 20 A	1				SPARE		0.0 kVA	0.0 kVA	0.011/0.0011	/ .		SPARE				1	20 A	20
							22	2	-		21 20 A	1				SPARE				0.0 KVA 0.0 KV	/A	0.01)/4	SPARE				1	20 A	22
											23 20 A	1				SPARE			0.010/0		0.0 KVA	0.0 KVA	SPARE				1	20 A	24
											25 20 A	1				SPARE		0.0 KVA	0.0 KVA		//		SPARE				1	20 A	20
									-		20 20 A	1				SPARE				0.0 KVA 0.0 K		0.0 k)/A	SPARE				1	20 A	30
									-		20 A 31 20 A	1				SPARE		0.0 k\/A	0.0 k\/A		0.0 KV/	0.0 KVA	SPARE				1	20 A	32
		Panel	l Tota	ls					-		33 20 A	1				SPARE		0.0 1077	0.0 1.071		/A		SPARE				1	20 A	34
				_					-		35 20 A	1				SPARE					0.0 kVA	0.0 kVA	SPARE				1	20 A	36
ta	Conn	l oad	. 514	80 \/A					-		37 20 A	1				SPARE		0.0 kVA	0.0 kVA				SPD				3	60 A	38
		Load.	. 514						-		39 20 A	1				SPARE				0.0 kVA 0.0 kV	/A								40
ai	zst. Der	nanu.	. 515	75 VA					-		41 20 A	. 1				SPARE					0.0 kVA	0.0 kVA							42
	l otal C	ionn.:	: 62 A	4					-									2480	VA	1583 VA	8	60 VA							
al	Est. Der	nand:	: 62 A	4					-									22	A	14 A		7 A							
									-																				
									-	Load (	Classifica	tion					Connect	ed Load	D	emand Factor	Estim	ated Deman	d	Pan	el Tota	als			
										Heatin	g						600	VA		100.00%		600 VA							
										Other	0						2500	) VA		100.00%		2500 VA	1	otal Conn. Loa	<b>d:</b> 492	1 VA			
									-	Recent	tacle						1440			100.00%			Te	tal Est Doman	d: 501	6 \/A			
										Lightin	auic a						204			125 00%					<b>u</b> 14	<u>م ب</u>			
										LIGHUU	У						391	٧A		120.00%		400 VA			1 14/	~			
																								otal Est. Deman	<b>a:</b> 14 /	4			
										Load S	Summary	Notes:																	

		4-WIRE FEEDER SCHEDUL	E - COPPER	
STD. FUSE OR BKR TRIP SIZE	# OF SETS	THHN/THWN-2/XHHW CONDUCTORS	CONDUIT SIZE (MINIMUM)	GROUNDING ELECTRODE CONDUCTOR (REFER TO SUBSCRIPT GEO
20	1	4#12, 1#12 GND	3/4"	#8
30	1	4#10, 1#10 GND	3/4"	#8
40	1	4#8, 1#10 GND	3/4"	#8
50	1	4#8, 1#10 GND	3/4"	#8
60	1	4#6, 1#10 GND	1"	#8
70 80	1	4#4, 1#8 GND	1-1/4"	#8
90 (10)	1	4#3, 1#8 GND	1-1/4"	#8
(125)	1	4#1, 1#6 GND	1-1/2"	#6
(150)	1	4#1/0, 1#6 GND	2"	#6
(175)	1	4#2/0, 1#6 GND	2"	#4
200	1	4#3/0, 1#6 GND	2"	#4
225	1	4#4/0, 1#1/0 GND	2-1/2"	#2
250	1	4#250 KCMIL, 1#4 GND	2-1/2"	#2
300	1	4#350 KCMIL, 1#3 GND	3"	#2
350	1	4#400 KCMIL, 1#3 GND	3"	#1/0
(400)	2	4#3/0, 1#3 GND	2"	#2
500	2	4#250KCMIL, 1#2 GND	2"	#1/0
600	2	4#350 KCMIL, 1#1 GND	3"	#2/0
700	2	4#400 KCMIL, 1#1/0 GND	3"	#2/0
800	3	4#300 KCMIL, 1#1/0 GND	3"	#2/0
900	3	4#350 KCMIL, 1#2/0 GND	3"	#2/0
1000	3	4#400 KCMIL, 1#2/0 GND	3"	#3/0
(1200)	4	4#350 KCMIL, 1#3/0 GND	3"	#3/0
(1600)	5	4#400 KCMIL, 1#4/0 GND	3"	#3/0
2000	6	4#400 KCMIL, 1#250 KCMIL GND	3"	#3/0
3000	8	4#500 KCMIL, 1#400 KCMIL GND	3-1/2"	#3/0
4000	11	4#500 KCMIL, 1#500 KCMIL GND	3-1/2"	#3/0

![](_page_34_Picture_10.jpeg)

<b>Pane</b> G - IN R - IN N - IN E - IN	<b>I Sch</b> IDICA IDICA IDICA IDICA	edule I ATES G ATES E ATES N ES EX	<b>Notes:</b> iFCI BRE/ XISTING EW BRE/ ISTING B	Number Aker. Breake Aker; D Reakef	Loc Supply Mou Encl of Sec SER; DIS SCON R AND	cation: ELE From: unting: SUI osure: NEI ctions: 1 SCONNECT INECT ANE LOAD.	EC. 426 RFACE MA-1 AND DEMO EX REMOVE EXIS	ISTING LOAD TING BREAKE	AND PREP R AND LOA	ARE BREA AD AND INS	Volts: Phases: Wires: KER FOR N STALL NEW	120/208 W 3 4 IEW LOAD 7 BREAKER	′ye AS SHOW ≹ IN ITS PL
ABR	скт	TRIP	POLES	WIRE	GND	CONDUIT	Circuit De	scription		<u> </u>		B	
	1	20 A	1				(E) LIGHTS CC	RR	0.0 kVA	• 1.1 kVA			
R	3	20 A	1	2#12	#12	3/4"	SUPPLY STOR	AGE RECEPT	0.0 1.071		0.9 kVA	0.7 kVA	
R	5	20 A	1	2#12	#12	3/4"	SHELL RECEP	TS					0.5 kVA
R	7	20 A	1	2#12	#12	3/4"	OFFICE RECE	PT	0.7 kVA	0.7 kVA			
R	9	20 A	1	2#12	#12	3/4"	POSTAGE REC	CEPT			0.5 kVA	0.9 kVA	1
R	11	20 A	1	2#12	#12	3/4"	RESTROOM R	ECEPT					0.5 kVA
R	13	20 A	1	2#12	#12	3/4"	LIGHTING		0.9 kVA	0.8 kVA			
R	15	20 A	1	2#12	#12	3/4"	LIGHTING				0.1 kVA	1.0 kVA	
-	17	20 A	1				(E) EXH FAN #	5					0.0 kVA
R	19	20 A	1	2#12	#12	3/4"	VAV		1.0 kVA	0.0 kVA			
R	21	20 A	1	2#12	#12	3/4"	LIGHTING				0.7 kVA	0.0 kVA	
	23	20 A	2				EXISTING LOA	D					0.0 kVA
	25							_	0.0 kVA	0.0 kVA			
	27	20 A	1				EXISTING LOA	D			0.0 kVA	0.0 kVA	
	29	20 A	1				EXISTING LOA	D					0.0 kVA
									520	5 VA	490	0 VA	35
									45	δA	43	3 A	
Load	Clas	sificati	on					Connect	ed Load	D	emand Fac	tor	Estim
Heati	ng							3200	) VA		100.00%		
Othe								0 \	/A		0.00%		
Rece	ntacle	<b>`</b>						7020	) \/Δ		100.00%		
Linht	placie	,						1920			100.00 /0		
Lignu	ng							2020	o va		125.00%		

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			Brai	nch	Pa	nel: 20	<b>38C</b>							
				Sumber	Lo Supply Mou Encl	cation: ELE From: unting: SUI osure: NEI	EC. 439 RFACE MA-1				Volts: Phases: Wires:	120/208 W 3 4	ye	
<b>Pane</b> G - II R - IN N - IN E - IN	el Sch NDICA NDICA NDICA NDICA	ATES G ATES E ATES N ATES N ES EX	Notes: FCI BRE/ XISTING EW BRE/ ISTING BI	AKER. BREAKI AKER; D REAKEI	ER; DIS DISCON R AND	SCONNECT INECT ANE LOAD.	AND DEMO EX REMOVE EXIS	ISTING LOAD TING BREAKE	AND PREP R AND LOA	ARE BREA	KER FOR N STALL NEW	IEW LOAD ' BREAKER	AS SHOWI IN ITS PLA	N IN S ACE.
ABR	скт	TRIP	POLES	WIRF	GND	CONDUIT	Circuit De	scription		1		B		c
	1	20 A	1				(F) I TGS FLEC	235	0.0 kVA	• 0.0 k\/A	•			
	3	20 A	1				(E) UNKNOWN	200	0.0 1077	0.0 1077	0.0 kVA	0.0 kVA		
	5	20 A	1				EXISTING LOA	D					0.0 kVA	0.0
	7	20 A	1				EXISTING LOA	D	0.0 kVA	1.1 kVA				
	9	20 A	1				EXISTING LOA	D			0.0 kVA	1.1 kVA		
R	11	20 A	1	2#12	#12	3/4"	CONF. RM ARE	A A RECEPT					0.7 kVA	1.3
R	13	20 A	1	2#12	#12	3/4"	EM LIGHTING		1.1 kVA	0.0 kVA				
	15	20 A	1				EXISTING LOA	D			0.0 kVA	0.0 kVA		
	17	20 A	1				EXISTING LOA	D					0.0 kVA	0.0
	19	20 A	1				EXISTING LOA	D	0.0 kVA	0.0 kVA				
	21	20 A	1				EXISTING LOA	D			0.0 kVA	0.0 kVA		
	23	20 A	1				EXISTING LOA	D	0.011/4	0.011/4			0.0 kVA	0.0
	25	20 A	1				EXISTING LOA	D	0.0 kVA	0.0 kVA	0.011/4	0.011/4		
	27	20 A	1				EXISTING LOA				0.0 KVA	0.0 KVA	0.010/0	0.0
	29	20 A	1				EXISTING LOA			0.0 k)/A			0.0 KVA	0.0
	33	20 A	1						0.0 KVA	0.0 KVA		$0.0 k \lambda / \Lambda$		
	35	20 A	1								0.0 KVA	0.0 KVA	0.0 k\/A	0.0
	37	20 A	1				EXISTING LOA		0.0 k V A	0.0 k\/A			0.0 KVA	0.0
	39	20 A	1				EXISTING LOA		0.0 1077	0.0 1077	0.0 kVA	0.0 kVA		
	41	20 A	1				EXISTING LOA	D				0.0	0.0 kVA	0.0
			-			1			216	5 VA	108		203	3 VA
									19	A	9	A	18	8 A
Load	Clas	sificati	on					Connect	ed Load	D	emand Fac	ctor	Estima	ted De
Othe	r		-					150	VA		100 00%		1	50 VA
Rece	Intacle	2						2880	1/Δ		100.00%		29	
Dour								2000			100.00%		20	
Powe	।							300	VA		100.00%		3	
Light	ing							1948	3 VA		125.00%			436 VA
Loac	l Sum	mary N	lotes:											

		A.I.C. Rati Mains Rati MLO Rati	ing: 10,000 ing: 80 A ing: 100 A						
SCHED	DULE.								
	Circu	it Description	CONDUIT	GND	WIRE	POLES	TRIP	скт	ABR
	OFFICE R	ECEPT	3/4"	#12	2#12	1	20 A	2	R
	FILE STO	RAGE RECEPT	3/4"	#12	2#12	1	20 A	4	R
1 kVA	RECEPT	DATA	3/4"	#12	2#12	1	20 A	6	R
	OFFICE R	ECEPT	3/4"	#12	2#12	1	20 A	8	R
	CLERICA	SUPPORT	3/4"	#12	2#12	1	20 A	10	R
2 kVA	EWC		3/4"	#12	2#12	1	20 A	12	N/G
	LIGHTING	ì	3/4"	#12	2#12	1	20 A	14	R
	VAV		3/4"	#12	2#12	1	20 A	16	R
2 kVA	VAV		3/4"	#12	2#12	1	20 A	18	R
	EXISTING	LOAD				1	20 A	20	
	EXISTING	LOAD				1	20 A	22	
0 kVA	EXISTING					1	20 A	24	
•	EXISTING					1	20 A	26	
	EXISTING	LOAD				1	20 A	28	
0 kVA	EXISTING	LOAD				1	20 A	30	
A									
Deman	d		Pan	el Tot	als				
VA									
۹		Total	Conn. Loa	<b>d:</b> 136	645 VA				
/A		Total I	Est. Deman	<b>d:</b> 142	276 VA				
/^			Total Conr		^				
VA		<b>T</b> . ( . ) (		1. 30	~				
		Iotai I	Est. Deman	<b>a:</b> 40	A				
	I			I					

		A.I.C. Rat Mains Rat MLO Rat	ing: 10,000 ing: 80 A ing: 225 A	)						
SCHED	ULE.									
		Circuit Description		GN	חו			TDID	скт	
			CONDOLL	GN		VVIINE		20.4	2	ADK
							1	20 A	 Δ	
0 k\/A	(E) R	EC CHARGE NURSE			_		1	20 A	6	
0 10 10		F RM AREA B RECEPT	3/4"	#1	2	2#12	1	20 A	8	R
	CON	F. RM AREA A RECEPT	3/4"	#1	2	2#12	1	20 A	10	R
3 kVA	EME	RGENCY LIGHTING	3/4"	#1	2	2#12	1	20 A	12	R
-	EXIS	TING LOAD					1	20 A	14	
	EXIS	TING LOAD					1	20 A	16	
0 kVA	EXIS	TING LOAD			-		1	20 A	18	
	EXIS	TING LOAD			-		1	20 A	20	
	EXIS	TING LOAD					1	20 A	22	
0 kVA	(E) E	TO FAN			•		1	20 A	24	
	(E) J	/C PANEL					1	20 A	26	
	SPA	RE					1	20 A	28	
0 kVA	SPA	RE					1	20 A	30	
	SPA	RE			•		1	20 A	32	
	SPA	RE			•		1	20 A	34	
0 kVA					•		1	20 A	36	
		REC RM 239 NRS STA 3			•		1	20 A	38	
0.13/4		EC RM 239 NRS STA 3			•		1	20 A	40	
<u>U KVA</u>	(E) K	EC RMS 239A,243			•		1	20 A	42	
4	-									
Domano	4		Par		ota					
/^	<i>.</i>		1 41		010	15				
		Tatal		al. 7	-07	0.1/4				
VA 		Iota		ia: 5	527	8 VA				
Ά		Total	Est. Deman	id: 5	576	5 VA				
VA			Total Con	<b>n.:</b>  1	15 A	4				
		Total	Est. Deman	<b>d:</b> 1	16 A	4				
				+						

			Number	Loca Supply F Mour Enclo	ation: EL From: hting: SU sure: NE ions: 1	EC. 426 JRFACE EMA-1			Volts: 120/208 W Phases: 3 Wires: 4	/ye		A.I.C. Rati Mains Rati Rati	i <b>ng:</b> 10,000 i <b>ng:</b> 400 A i <b>ng:</b> 225 A	1				
NDIC NDIC NDIC NDIC NDIC	NEGUIE I ATES G ATES E ATES N FES EXI	<b>Notes:</b> FCI BREA XISTING I EW BREA ISTING BA	AKER. BREAKE AKER; D REAKEF	ER; DIS( DISCONI R AND L	CONNEC NECT AN OAD.	T AND DEMO EXISTING LOAD D REMOVE EXISTING BREAKE	AND PREPARE ER AND LOAD A	E BREAK AND INS	KER FOR NEW LOAD TALL NEW BREAKER	AS SHOWN IN S R IN ITS PLACE.	SCHEDI	JLE.						
s ck.	TRIP	POLES	WIRE	GND	CONDUIT	Circuit Description	Δ		В	c		Circuit Description	CONDUIT	GND	WIRE	POLES	TRIP	
1 3 5	20 A 20 A 20 A	1 1 1				(E) LTG 275,259,258,251 (E) LGT 275,268 (E) REC CORE 275	0.0 kVA 0.	.0 kVA	0.0 kVA 0.0 kVA	0.0 kVA 0.0	) kVA	(E) REC TELE 260 (E) REC TELE 260 (E) REC CORR 272				1 1 1	20 A 20 A 20 A	2 4 6
7 9 11	20 A 20 A 20 A	1 1 1 2	  2#10	  #10	   3///"	(E) REC CORE 275 (E) REC CORE 275 (E) AUTO DOOR 256 TTB PECEPT	0.0 kVA 0.	.0 kVA	0.0 kVA 0.0 kVA	0.0 kVA 0.0	) kVA	(E) REC CORR 272 (E) REC CORR 272 (E) AUTO DOOR 268 RM 21 EXISTING LOAD	  	  	  	1 1 1 1	20 A 20 A 20 A	8 10 12 14
15 15 17 19		 1 1	2#12 2#12	#10  #12 #12	<u></u> 3/4" 3/4"	 TTB RECEPT EM LIGHTING	1.5 kVA 0.	.0 kVA	1.5 kVA 0.0 kVA	0.2 kVA 0.0	) kVA	EXISTING LOAD EXISTING LOAD EXISTING LOAD EXISTING LOAD		  	  	1 1 1 1	20 A 20 A 20 A 20 A	16 18 20
21 23 25	20 A 20 A 20 A	1 1 1	2#12  	#12  	3/4"  	TTB RECEPT EXISTING LOAD EXISTING LOAD	0.0 kVA 0.	.0 kVA	0.2 kVA 0.0 kVA	0.0 kVA 0.0	) kVA	EXISTING LOAD EXISTING LOAD (E) AUTO CLAVE	  		  	1 1 1	20 A 20 A 20 A	22 24 26
27 29 31	20 A 20 A 20 A	1 1 1		  	  	EXISTING LOAD (E) CLOCK CORRECTION SPARE	0.0 kVA 0.	.0 kVA	0.0 kVA 0.0 kVA	0.0 kVA 0.0	) kVA	(E) MED GAS ALARM PNL (E) REC TELE RM IDF (E) FREEZER ANESTH RM	  	 	  	1 1 1	20 A 20 A 20 A	28 30 32
35 35 37 39	20 A 20 A 20 A 20 A	1 1 1 1		  	  	(E) AUTO DOOR (E) PRE OP LIGHTS (E) RECOVERY	0.0 kVA 0.1	.0 kVA	0.0 kVA 0.0 kVA	0.0 kVA 0.0	) kVA	(E) REPEATER EXISTING LOAD (E) SPARE (E) ICE MACHINE LDR			  	1 1 1 1	20 A 20 A 20 A 20 A	36 38 40
41	20 A	1				(E) PRE OP	3035 VA 27 A	Ą	1680 VA 16 A	0.0 kVA 0.0 180 VA 2 A	) kVA	(E) ICE MACHINE LDR				1	20 A	42
d Cla	esificati	on				Connec	ted Load	D	emand Eactor	Estimated D	)omand		Dan	al Tot	ale			
er eptac	e					150 360	) VA ) VA		100.00% 100.00%	150 V/ 360 V/	A A	Total	Conn. Loa	d: 489	95 VA			
nting cellan	eous					138 300	5 VA 0 VA		125.00% 100.00%	1731 V 3000 V	/A /A	Total E	Est. Deman Total Conr Est. Deman	d: 524 n.: 14 d: 15	A A			
xis	ting	Brar	nch S	Pan Loca Supply F Mour Enclo	el: 2 ation: EL From: nting: SL sure: NE ions: 2	<b>07N</b> EC. 436B JRFACE EMA-1			Volts: 120/208 W Phases: 3 Wires: 4	/ye		A.I.C. Rati Mains Rati MCB Rati	i <b>ng:</b> 10,000 i <b>ng:</b> 300 A i <b>ng:</b> 300 A					
xis nel sc INDIC INDIC INDIC INDIC	ting nedule I ATES G ATES E ATES N FES EXI	Brar Notes: FCI BREA XISTING I EW BREA ISTING BF	Number AKER. BREAKE KER; D REAKEF	Pan Loca Supply F Mour Enclo F of Sect	el: 2 ation: EL from: nting: SL sure: NE ions: 2 CONNEC NECT AN OAD.	<b>07N</b> EC. 436B JRFACE EMA-1 T AND DEMO EXISTING LOAD D REMOVE EXISTING BREAKE	AND PREPARE	E BREAK	Volts: 120/208 W Phases: 3 Wires: 4 KER FOR NEW LOAD A	/ye AS SHOWN IN S N ITS PLACE.	SCHEDI	A.I.C. Rati Mains Rati MCB Rati	ing: 10,000 ing: 300 A ing: 300 A					
Nel Sc INDIC INDIC INDIC INDIC INDIC INDIC INDIC INDIC	nedule N ATES G ATES EXI TES EXI TRIP 20 A	Brar Brar Notes: FCI BREA XISTING B EW BREA STING BF	Number AKER. BREAKE KER; D REAKEF WIRE	Pan Loca Supply F Mour Enclo SCONN R AND L GND ( 	el: 2 ation: EL from: nting: SL sure: NE ions: 2 CONNEC NECT AN OAD.	O7N EC. 436B JRFACE EMA-1 T AND DEMO EXISTING LOAD D REMOVE EXISTING BREAKE		E BREAK	Volts: 120/208 W Phases: 3 Wires: 4 KER FOR NEW LOAD TALL NEW BREAKER	/ye AS SHOWN IN S IN ITS PLACE.	SCHEDU	A.I.C. Rati Mains Rati MCB Rati JLE. Circuit Description (E) LIGHTS	ing: 10,000 ing: 300 A ing: 300 A	GND 	WIRE	POLES	<b>TRIP</b> 20 A	СКТ А 2
R CK 1 3 5 7	ting ATES G ATES EX ATES N TES EXI 20 A 20 A 20 A	Brar Notes: FCI BREA XISTING I EW BREA ISTING BF POLES 1 1 1	Number AKER. BREAKE KER; D REAKEF WIRE	Pan Loca Supply F Mour Enclo of Sect ER; DISC DISCONN R AND L GND GND	el: 2 ation: EL from: nting: SL sure: NE ions: 2 CONNEC NECT AN OAD.	O7N EC. 436B JRFACE EMA-1 T AND DEMO EXISTING LOAD D REMOVE EXISTING BREAKE (E) LIGHTS (E) LIGHTS (E) LIGHTS (E) LIGHTS CORRIDOR (E) LIGHTS CORRIDOR (E) LIGHTS CORRIDOR	AND PREPARE ER AND LOAD A 0.0 kVA 0.1 0.0 kVA 0.1	E BREAK AND INS	Volts: 120/208 W Phases: 3 Wires: 4 KER FOR NEW LOAD TALL NEW BREAKER B 0.0 kVA 0.0 kVA	/ye AS SHOWN IN S IN ITS PLACE.	SCHEDU 3 kVA	A.I.C. Rati Mains Rati MCB Rati JLE.	ing: 10,000 ing: 300 A ing: 300 A  3/4" 3/4"	<b>GND</b>  #12 #12	WIRE  2#12 2#12 2#42	POLES 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	<b>TRIP</b> 20 A 20 A 20 A 20 A	<b>CKT A</b> 2 4 6 8
R CK R CK 1 3 5 7 9 11 13 15	TRIP 20 A 20 A 20 A 20 A 20 A 20 A	Brar Brar SFCI BREA XISTING I EW BREA ISTING BR POLES 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Number AKER. BREAKE XKER; D REAKEF WIRE   2#12 2#12 2#12 2#12 2#12 2#12	Pan Loca Supply F Mour Enclo r of Sect SCONN R AND L GND GND GND GND GND GND GND GND GND GND	<b>el: 2</b> ation: EL from: nting: SL sure: NE ions: 2 CONNEC NECT AN OAD. CONDUIT     3/4" 3/4" 3/4"	O7N EC. 436B JRFACE MA-1 T AND DEMO EXISTING LOAD D REMOVE EXISTING BREAKE (E) LIGHTS (E) LIGHTS (E) LIGHTS (E) LIGHTS CORRIDOR (E) LIGHTS CORRIDOR	AND PREPARE ER AND LOAD A 0.0 kVA 0.1 0.0 kVA 0.1 0.2 kVA 0.1	E BREAK AND INS 0 kVA 7 kVA 2 kVA	Volts:       120/208 W         Phases:       3         Wires:       4         KER FOR NEW LOAD       1         TALL NEW BREAKER       0.0 kVA         0.0 kVA       0.0 kVA         1.1 kVA       1.3 kVA         0.2 kVA       0.9 kVA	/ye AS SHOWN IN S IN ITS PLACE. O.0 KVA 1.3 I.1 kVA 0.7	SCHEDU 3 kVA 7 kVA	A.I.C. Rati Mains Rati Mains Rati MCB Rati JLE.	ing: 10,000 ing: 300 A ing: 300 A ing: 300 A  3/4" 3/4" 3/4" 3/4" 3/4" 3/4"	<b>GND</b>  #12 #12 #12 #12 #12 #12 #12	WIRE 2#12 2#12 2#12 2#12 2#12 2#12 2#12	POLES 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	<b>TRIP</b> 20 A	CKT A 2 4 6 8 10 12 14 16
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el Sc NDIC NDIC NDIC NDIC NDIC NDIA 25 27 29 31 33 35 37 39 41	TRIP         20 A         20 A <t< td=""><td>Brar Notes: FCI BREA XISTING I EW BREA ISTING BR POLES 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1</td><td>Number AKER. BREAKE BREAKE KER; D REAKEF URE   2#12 2#12 2#12 2#12 2#12 2#12 2#1</td><td>Pan Loca Supply F Mour Enclo of Sect SCONN AND L ER; DISC SCONN AND L ER; DISC SCONN AND L ER; DISC SCONN AND L ER; DISC ER; DISC SCONN AND L ER; DISC ER; D</td><td><b>CONDUIT</b></td><td>O7N EC. 436B JRFACE MA-1 T AND DEMO EXISTING LOAD D REMOVE EXISTING BREAKE (E) LIGHTS (E) LIGHTS (E) LIGHTS (E) LIGHTS CORRIDOR (E) LIGHTS CORRIDOR REPRO HEALTH RECEPT REFRIGERATOR BREAKROOM COUNTER IMMUNIZATION RECEPT EWC NURSE'S STATION RECEPT IMMUNIZATION RECEPT IMMUNIZATION RECEPT TB RECEPT TB RECEPT TB RECEPT TB RECEPT TB RECEPT LIGHTING LIGHTING LIGHTING LOAD EXISTING LOAD EXISTING LOAD</td><td>AND PREPARE ER AND LOAD A 0.0 kVA 0.1 0.0 kVA 0.1 0.2 kVA 0.1 kVA 0.1 0 kVA 0.1 kVA 0.</td><td>E BREAK AND INS 0 kVA 7 kVA 9 kVA 9 kVA 7 kVA 0 kVA</td><td>Volts:       120/208 W         Phases:       3         Wires:       4         KER FOR NEW LOAD.         TALL NEW BREAKER         0.0 kVA       0.0 kVA         1.1 kVA       1.3 kVA         0.2 kVA       0.9 kVA         0.2 kVA       0.9 kVA         0.1 kVA       1.3 kVA         0.2 kVA       0.9 kVA         0.2 kVA       0.9 kVA         0.3 kVA       1.3 kVA         0.5 kVA       1.0 kVA         0.0 kVA       0.0 kVA</td><td>/ye AS SHOWN IN S IN ITS PLACE. 0.0 kVA 1.3 1.1 kVA 0.7 0.9 kVA 0.9 0.7 kVA 0.9 0.7 kVA 0.9 0.7 kVA 0.9 0.7 kVA 0.9 0.9 kVA 0.9 kVA 0.9 0.9 kVA 0.9 kV</td><td>SCHEDU 3 kVA 3 kVA 9 kVA 3 kVA 2 kVA</td><td>A.I.C. Rati Mains Rati Mains Rati MCB Rati JLE.</td><td>ing: 10,000 ing: 300 A ing: 304" 3/4" 3/4" 3/4" 3/4" 3/4" 3/4" 3/4" 3/</td><td><b>GND</b>  #12 #12 #12 #12 #12 #12 #12 #12 #12 #12</td><td>WIRE  2#12 2#12 2#12 2#12 2#12 2#12 2#12</td><td>POLES 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1</td><td>TRIP           20 A           20 A</td><td>CKT       A         2       4         4       6         10       12         14       16         18       20         22       2         24       26         28       30         32       34         36       38         40       42</td></t<>	Brar Notes: FCI BREA XISTING I EW BREA ISTING BR POLES 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Number AKER. BREAKE BREAKE KER; D REAKEF URE   2#12 2#12 2#12 2#12 2#12 2#12 2#1	Pan Loca Supply F Mour Enclo of Sect SCONN AND L ER; DISC SCONN AND L ER; DISC SCONN AND L ER; DISC SCONN AND L ER; DISC ER; DISC SCONN AND L ER; DISC ER; D	<b>CONDUIT</b>	O7N EC. 436B JRFACE MA-1 T AND DEMO EXISTING LOAD D REMOVE EXISTING BREAKE (E) LIGHTS (E) LIGHTS (E) LIGHTS (E) LIGHTS CORRIDOR (E) LIGHTS CORRIDOR REPRO HEALTH RECEPT REFRIGERATOR BREAKROOM COUNTER IMMUNIZATION RECEPT EWC NURSE'S STATION RECEPT IMMUNIZATION RECEPT IMMUNIZATION RECEPT TB RECEPT TB RECEPT TB RECEPT TB RECEPT TB RECEPT LIGHTING LIGHTING LIGHTING LOAD EXISTING LOAD EXISTING LOAD	AND PREPARE ER AND LOAD A 0.0 kVA 0.1 0.0 kVA 0.1 0.2 kVA 0.1 kVA 0.1 0 kVA 0.1 kVA 0.	E BREAK AND INS 0 kVA 7 kVA 9 kVA 9 kVA 7 kVA 0 kVA	Volts:       120/208 W         Phases:       3         Wires:       4         KER FOR NEW LOAD.         TALL NEW BREAKER         0.0 kVA       0.0 kVA         1.1 kVA       1.3 kVA         0.2 kVA       0.9 kVA         0.2 kVA       0.9 kVA         0.1 kVA       1.3 kVA         0.2 kVA       0.9 kVA         0.2 kVA       0.9 kVA         0.3 kVA       1.3 kVA         0.5 kVA       1.0 kVA         0.0 kVA       0.0 kVA	/ye AS SHOWN IN S IN ITS PLACE. 0.0 kVA 1.3 1.1 kVA 0.7 0.9 kVA 0.9 0.7 kVA 0.9 0.7 kVA 0.9 0.7 kVA 0.9 0.7 kVA 0.9 0.9 kVA 0.9 kVA 0.9 0.9 kVA 0.9 kV	SCHEDU 3 kVA 3 kVA 9 kVA 3 kVA 2 kVA	A.I.C. Rati Mains Rati Mains Rati MCB Rati JLE.	ing: 10,000 ing: 300 A ing: 304" 3/4" 3/4" 3/4" 3/4" 3/4" 3/4" 3/4" 3/	<b>GND</b>  #12 #12 #12 #12 #12 #12 #12 #12 #12 #12	WIRE  2#12 2#12 2#12 2#12 2#12 2#12 2#12	POLES 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	TRIP           20 A	CKT       A         2       4         4       6         10       12         14       16         18       20         22       2         24       26         28       30         32       34         36       38         40       42
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<b>KIS</b> <b>el Sc</b> <b>INDIC</b> <b>INDIC</b> <b>INDIC</b> <b>NDIA</b> <b>R</b> <b>CK</b> 11 3 5 7 9 11 13 15 7 9 11 13 15 7 9 11 13 15 7 9 11 13 15 7 9 11 13 15 17 9 11 13 15 17 9 11 13 15 17 9 11 13 15 17 9 11 13 15 17 9 11 13 15 17 9 11 13 15 17 9 11 13 15 17 9 11 13 15 17 9 11 13 15 17 9 11 13 15 17 9 11 13 15 17 9 11 13 15 17 9 11 13 15 17 9 11 13 15 17 9 11 13 15 17 9 11 13 15 17 19 21 23 25 27 29 31 33 35 37 39 41 43 45 53 55 57 19 10 10 10 10 10 10 10 10 11 13 15 17 19 11 13 15 17 19 11 15 17 19 11 15 17 19 11 13 15 17 19 11 15 17 19 11 15 17 19 11 15 17 19 15 17 19 15 17 19 15 17 19 15 17 19 15 17 19 15 17 19 15 17 19 15 17 19 15 15 17 19 15 15 17 19 15 15 17 19 15 15 17 15 15 15 15 17 19 15 15 15 17 15 15 15 15 15 15 15 15 15 15	TRIP         20 A         20 A <t< td=""><td>Brar Notes: FCI BREA XISTING I EW BREA STING BR POLES 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1</td><td>Number AKER. 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<b>el Sc</b> NDIC NDIC NDIC NDIC NDIC NDIC NDIC NDIC	TRIP         20 A         20 A <t< td=""><td>Brar Notes: FCI BREA XISTING I EW BREA ISTING BR POLES 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1</td><td>Number AKER. BREAKE BREAKE Composite AKER; D REAKEF 2#12 2#12 2#12 2#12 2#12 2#12 2#12 2#1</td><td>Pan Loca Supply F Mour Enclo of Sect SCON R AND L GND            </td><td>CONNEC Sure: NE ions: 2 CONNEC SUC: AN OAD. CONDUIT    3/4" 3/4" 3/4" 3/4" 3/4" 3/4" 3/4" 3/4"</td><td>O7N EC. 436B JRFACE MA-1 T AND DEMO EXISTING LOAD D REMOVE EXISTING BREAKE MA-1 T AND DEMO EXISTING LOAD D REMOVE EXISTING BREAKE (E) LIGHTS (E) LIGHTS (E) LIGHTS (E) LIGHTS CORRIDOR (E) LIGHTS CORRIDOR (E) LIGHTS CORRIDOR (E) LIGHTS CORRIDOR (E) LIGHTS CORRIDOR (E) LIGHTS CORRIDOR REPRO HEALTH RECEPT REFRIGERATOR BREAKROOM COUNTER IMMUNIZATION RECEPT EWC NURSE'S STATION RECEPT EWC NURSE'S STATION RECEPT IB RECEPT TB RECEPT TB RECEPT TB RECEPT TB RECEPT TB RECEPT TB RECEPT LIGHTING LIGHTING LIGHTING LOAD EXISTING LOAD</td><td>AND PREPARE R AND LOAD A AND PREPARE AND LOAD A 0.0 kVA 0.1 0.0 kVA 0.1 0.0 kVA 0.1 0.2 kVA 0.1 0.2 kVA 0.1 0.2 kVA 0.1 0.2 kVA 0.1 0.1 0.0 kVA 0.1 0.1 0.0 kVA 0.1 0.1 0.0 kVA 0.1 0.1 0.0 kVA 0.1 0.1 0.0 kVA 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1</td><td>E BREAK AND INS 0 kVA 2 kVA 2 kVA 3 kVA 3 kVA 3 kVA 0 kVA 0 kVA 0 kVA 0 kVA 0 kVA 0 kVA</td><td>Volts:       120/208 W         Phases:       3         Wires:       4         KER FOR NEW LOAD A         TALL NEW BREAKER         0.0 kVA       0.0 kVA         0.0 kVA       0.0 kVA         0.0 kVA       0.0 kVA         0.1 kVA       1.3 kVA         0.2 kVA       0.9 kVA         0.2 kVA       0.9 kVA         0.1 kVA       1.3 kVA         1.3 kVA       1.3 kVA         0.0 kVA       0.0 kVA</td><td>/ye AS SHOWN IN S IN ITS PLACE. 0.0 kVA 1.3 1.1 kVA 0.7 0.9 kVA 0.9 1.1 kVA 0.7 0.9 kVA 0.9 1.1 kVA 0.7 0.9 kVA 0.9 0.7 kVA 0.9 0.9 kVA 0.9 0.1 kVA 0.1 0.9 kVA 0.0 0.0 kVA 0.0 kVA 0.0 0.0 kVA 0.0 kVA 0.0 0.0 kVA 0.0 k</td><td>SCHEDU 3 kVA 3 kVA</td><td>A.I.C. Rati Mains Rati MCB Rati JLE.</td><td>ing: 10,000 ing: 300 A ing: 304 ing: 304 ing:</td><td><b>GND</b> #12 #12 #12 #12 #12 #12 #12 #12 #12 #12</td><td>WIRE  2#12 2#12 2#12 2#12 2#12 2#12 2#12</td><td>POLES 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1</td><td>TRIP         20 A         20 A      <t< td=""><td>CKT       A         2       4         2       4         6       8         10       12         14       6         18       20         22       2         24       26         28       30         32       34         36       38         40       42         44       50         52       54         58       60         62       8</td></t<></td></t<>	Brar Notes: FCI BREA XISTING I EW BREA ISTING BR POLES 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Number AKER. BREAKE BREAKE Composite AKER; D REAKEF 2#12 2#12 2#12 2#12 2#12 2#12 2#12 2#1	Pan Loca Supply F Mour Enclo of Sect SCON R AND L GND            	CONNEC Sure: NE ions: 2 CONNEC SUC: AN OAD. CONDUIT    3/4" 3/4" 3/4" 3/4" 3/4" 3/4" 3/4" 3/4"	O7N EC. 436B JRFACE MA-1 T AND DEMO EXISTING LOAD D REMOVE EXISTING BREAKE MA-1 T AND DEMO EXISTING LOAD D REMOVE EXISTING BREAKE (E) LIGHTS (E) LIGHTS (E) LIGHTS (E) LIGHTS CORRIDOR (E) LIGHTS CORRIDOR (E) LIGHTS CORRIDOR (E) LIGHTS CORRIDOR (E) LIGHTS CORRIDOR (E) LIGHTS CORRIDOR REPRO HEALTH RECEPT REFRIGERATOR BREAKROOM COUNTER IMMUNIZATION RECEPT EWC NURSE'S STATION RECEPT EWC NURSE'S STATION RECEPT IB RECEPT TB RECEPT TB RECEPT TB RECEPT TB RECEPT TB RECEPT TB RECEPT LIGHTING LIGHTING LIGHTING LOAD EXISTING LOAD	AND PREPARE R AND LOAD A AND PREPARE AND LOAD A 0.0 kVA 0.1 0.0 kVA 0.1 0.0 kVA 0.1 0.2 kVA 0.1 0.2 kVA 0.1 0.2 kVA 0.1 0.2 kVA 0.1 0.1 0.0 kVA 0.1 0.1 0.0 kVA 0.1 0.1 0.0 kVA 0.1 0.1 0.0 kVA 0.1 0.1 0.0 kVA 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1	E BREAK AND INS 0 kVA 2 kVA 2 kVA 3 kVA 3 kVA 3 kVA 0 kVA 0 kVA 0 kVA 0 kVA 0 kVA 0 kVA	Volts:       120/208 W         Phases:       3         Wires:       4         KER FOR NEW LOAD A         TALL NEW BREAKER         0.0 kVA       0.0 kVA         0.0 kVA       0.0 kVA         0.0 kVA       0.0 kVA         0.1 kVA       1.3 kVA         0.2 kVA       0.9 kVA         0.2 kVA       0.9 kVA         0.1 kVA       1.3 kVA         1.3 kVA       1.3 kVA         0.0 kVA       0.0 kVA	/ye AS SHOWN IN S IN ITS PLACE. 0.0 kVA 1.3 1.1 kVA 0.7 0.9 kVA 0.9 1.1 kVA 0.7 0.9 kVA 0.9 1.1 kVA 0.7 0.9 kVA 0.9 0.7 kVA 0.9 0.9 kVA 0.9 0.1 kVA 0.1 0.9 kVA 0.0 0.0 kVA 0.0 kVA 0.0 0.0 kVA 0.0 kVA 0.0 0.0 kVA 0.0 k	SCHEDU 3 kVA 3 kVA	A.I.C. 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<b>kis</b> <b>el Sc</b> <b>i</b> NDIC <b>i</b> ND	TRIP         20 A         20 A <t< td=""><td>Brar Notes: FCI BREA XISTING I EW BREA STING BF POLES 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1</td><td>Number AKER. BREAKE BREAKE KER; D REAKEF URE 2#12 2#12 2#12 2#12 2#12 2#12 2#12 2#1</td><td>Pan Loca Supply F Mour Enclo of Sect SCONN CONNE AND L ER; DISC SCONNE AND L ER; DISC SCONNE AND L ER; DISC SCONNE AND L ER; DISC ER; DISC</td><td>CONDUIT        -</td><td>O7N EC. 436B JRFACE MA-1 T AND DEMO EXISTING LOAD D REMOVE EXISTING BREAKE (E) LIGHTS (E) LIGHTS (E) LIGHTS (E) LIGHTS (E) LIGHTS CORRIDOR (E) LIG</td><td>AND PREPARE R AND LOAD A 0.0 kVA 0.1 0.0 kVA 0.1 0.0 kVA 0.1 0.2 k</td><td>E BREAK AND INS 0 KVA 2 KVA 2 KVA 3 KVA 3 KVA 3 KVA 0 KVA 0 KVA 0 KVA 0 KVA 0 KVA 0 KVA</td><td>Volts:       120/208 W         Phases:       3         Wires:       4         Series:       4         0.0 kVA       0.0 kVA         0.0 kVA       0.0 kVA         1.1 kVA       1.3 kVA         1.1 kVA       0.9 kVA         0.2 kVA       0.9 kVA         0.2 kVA       0.9 kVA         0.1 kVA       1.3 kVA         0.2 kVA       0.9 kVA         0.1 kVA       1.3 kVA         0.0 kVA       0.0 kVA</td><td>/ye         AS SHOWN IN S         IN ITS PLACE.         0.0 kVA       1.3         1.1 kVA       0.7         0.9 kVA       0.9         1.1 kVA       0.7         0.0 kVA       1.3         1.1 kVA       0.7         0.0 kVA       0.9         0.0 kVA       0.9         0.0 kVA       0.9         0.0 kVA       0.0         0.0 kVA       0.0</td><td>SCHEDU 3 kVA 3 kVA 3 kVA 3 kVA 3 kVA 3 kVA 0 kVA 0 kVA 0 kVA 0 kVA</td><td>A.I.C. Rati Mains Rati MCB Rati MCB Rati JLE.</td><td>ing: 10,000 ing: 300 A ing: 304" 3/4" 3/4" 3/4" 3/4" 3/4" 3/4" 3/4" 3/</td><td><b>GND</b> #12 #12 #12 #12 #12 #12 #12 #12 #12 #12</td><td>WIRE 2#12 2#12 2#12 2#12 2#12 2#12 2#12</td><td>POLES 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1</td><td>TRIP         20 A         20 A      <t< td=""><td>CKT       A         2       4         4       6         8       10         12       14         16       18         20       22         24       26         28       30         32       34         36       32         34       50         52       54         58       60         62       64         66       68</td></t<></td></t<>	Brar Notes: FCI BREA XISTING I EW BREA STING BF POLES 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Number AKER. BREAKE BREAKE KER; D REAKEF URE 2#12 2#12 2#12 2#12 2#12 2#12 2#12 2#1	Pan Loca Supply F Mour Enclo of Sect SCONN CONNE AND L ER; DISC SCONNE AND L ER; DISC SCONNE AND L ER; DISC SCONNE AND L ER; DISC ER; DISC	CONDUIT        -	O7N EC. 436B JRFACE MA-1 T AND DEMO EXISTING LOAD D REMOVE EXISTING BREAKE (E) LIGHTS (E) LIGHTS (E) LIGHTS (E) LIGHTS (E) LIGHTS CORRIDOR (E) LIG	AND PREPARE R AND LOAD A 0.0 kVA 0.1 0.0 kVA 0.1 0.0 kVA 0.1 0.2 k	E BREAK AND INS 0 KVA 2 KVA 2 KVA 3 KVA 3 KVA 3 KVA 0 KVA 0 KVA 0 KVA 0 KVA 0 KVA 0 KVA	Volts:       120/208 W         Phases:       3         Wires:       4         Series:       4         0.0 kVA       0.0 kVA         0.0 kVA       0.0 kVA         1.1 kVA       1.3 kVA         1.1 kVA       0.9 kVA         0.2 kVA       0.9 kVA         0.2 kVA       0.9 kVA         0.1 kVA       1.3 kVA         0.2 kVA       0.9 kVA         0.1 kVA       1.3 kVA         0.0 kVA       0.0 kVA	/ye         AS SHOWN IN S         IN ITS PLACE.         0.0 kVA       1.3         1.1 kVA       0.7         0.9 kVA       0.9         1.1 kVA       0.7         0.0 kVA       1.3         1.1 kVA       0.7         0.0 kVA       0.9         0.0 kVA       0.9         0.0 kVA       0.9         0.0 kVA       0.0	SCHEDU 3 kVA 3 kVA 3 kVA 3 kVA 3 kVA 3 kVA 0 kVA 0 kVA 0 kVA 0 kVA	A.I.C. Rati Mains Rati MCB Rati MCB Rati JLE.	ing: 10,000 ing: 300 A ing: 304" 3/4" 3/4" 3/4" 3/4" 3/4" 3/4" 3/4" 3/	<b>GND</b> #12 #12 #12 #12 #12 #12 #12 #12 #12 #12	WIRE 2#12 2#12 2#12 2#12 2#12 2#12 2#12	POLES 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	TRIP         20 A         20 A <t< td=""><td>CKT       A         2       4         4       6         8       10         12       14         16       18         20       22         24       26         28       30         32       34         36       32         34       50         52       54         58       60         62       64         66       68</td></t<>	CKT       A         2       4         4       6         8       10         12       14         16       18         20       22         24       26         28       30         32       34         36       32         34       50         52       54         58       60         62       64         66       68
<b>XiS</b> <b>Nel Sc</b> <b>INDIC</b> <b>INDIC</b> <b>INDIC</b> <b>INDIC</b> <b>INDIC</b> <b>INDIC</b> <b>INDIC</b> <b>INDIC</b> <b>INDIC</b> <b>INDIC</b> <b>INDIC</b> <b>INDIC</b> <b>INDIC</b> <b>INDIC</b> <b>INDIC</b> <b>INDIC</b> <b>INDIC</b> <b>INDIC</b> <b>INDIC</b> <b>INDIC</b> <b>INDIC</b> <b>INDIC</b> <b>INDIC</b> <b>INDIC</b> <b>INDIC</b> <b>INDIC</b> <b>INDIC</b> <b>INDIC</b> <b>INDIC</b> <b>INDIC</b> <b>INDIC</b> <b>INDIC</b> <b>INDIC</b> <b>INDIC</b> <b>INDIC</b> <b>INDIC</b> <b>INDIC</b> <b>INDIC</b> <b>INDIC</b> <b>INDIC</b> <b>INDIC</b> <b>INDIC</b> <b>INDIC</b> <b>INDIC</b> <b>INDIC</b> <b>INDIC</b> <b>INDIC</b> <b>INDIC</b> <b>INDIC</b> <b>INDIC</b> <b>INDIC</b> <b>INDIC</b> <b>INDIC</b> <b>INDIC</b> <b>INDIC</b> <b>INDIC</b> <b>INDIC</b> <b>INDIC</b> <b>INDIC</b> <b>INDIC</b> <b>INDIC</b> <b>INDIC</b> <b>INDIC</b> <b>INDIC</b> <b>INDIC</b> <b>INDIC</b> <b>INDIC</b> <b>INDIC</b> <b>INDIC</b> <b>INDIC</b> <b>INDIC</b> <b>INDIC</b> <b>INDIC</b> <b>INDIC</b> <b>INDIC</b> <b>INDIC</b> <b>INDIC</b> <b>INDIC</b> <b>INDIC</b> <b>INDIC</b> <b>INDIC</b> <b>INDIC</b> <b>INDIC</b> <b>INDIC</b> <b>INDIC</b> <b>INDIC</b> <b>INDIC</b> <b>INDIC</b> <b>INDIC</b> <b>INDIC</b> <b>INDIC</b> <b>INDIC</b> <b>INDIC</b> <b>INDIC</b> <b>INDIC</b> <b>INDIC</b> <b>INDIC</b> <b>INDIC</b> <b>INDIC</b> <b>INDIC</b> <b>INDIC</b> <b>INDIC</b> <b>INDIC</b> <b>INDIC</b> <b>INDIC</b> <b>INDIC</b> <b>INDIC</b> <b>INDIC</b> <b>INDIC</b> <b>INDIC</b> <b>INDIC</b> <b>INDIC</b> <b>INDIC</b> <b>INDIC</b> <b>INDIC</b> <b>INDIC</b> <b>INDIC</b> <b>INDIC</b> <b>INDIC</b> <b>INDIC</b> <b>INDIC</b> <b>INDIC</b> <b>INDIC</b> <b>INDIC</b> <b>INDIC</b> <b>INDIC</b> <b>INDIC</b> <b>INDIC</b> <b>INDIC</b> <b>INDIC</b> <b>INDIC</b> <b>INDIC</b> <b>INDIC</b> <b>INDIC</b> <b>INDIC</b> <b>INDIC</b> <b>INDIC</b> <b>INDIC</b> <b>INDIC</b> <b>INDIC</b> <b>INDIC</b> <b>INDIC</b> <b>INDIC</b> <b>INDIC</b> <b>INDIC</b> <b>INDIC</b> <b>INDIC</b> <b>INDIC</b> <b>INDIC</b> <b>INDIC</b> <b>INDIC</b> <b>INDIC</b> <b>INDIC</b> <b>INDIC</b> <b>INDIC</b> <b>INDIC</b> <b>INDIC</b> <b>INDIC</b> <b>INDIC</b> <b>INDIC</b> <b>INDIC</b> <b>INDIC</b> <b>INDIC</b> <b>INDIC</b> <b>INDIC</b> <b>INDIC</b> <b>INDIC</b> <b>INDIC</b> <b>INDIC</b> <b>INDIC</b> <b>INDIC</b> <b>INDIC</b> <b>INDIC</b> <b>INDIC</b> <b>INDIC</b> <b>INDIC</b> <b>INDIC</b> <b>INDIC</b> <b>INDIC</b> <b>INDIC</b> <b>INDIC</b> <b>INDIC</b> <b>INDIC</b> <b>INDIC</b> <b>INDIC</b> <b>INDIC</b> <b>INDIC</b> <b>INDIC</b> <b>INDIC</b> <b>INDIC</b> <b>INDIC</b> <b>INDIC</b> <b>INDIC</b> <b>INDIC</b> <b>INDIC</b> <b>INDIC</b> <b>INDIC</b> <b>INDIC</b> <b>INDIC</b> <b>INDIC</b> <b>INDIC</b> <b>INDIC</b> <b>INDIC</b> <b>INDIC</b> <b>INDIC</b> <b>INDIC</b> <b>INDIC</b> <b>INDIC</b> <b>INDIC</b> <b>INDIC</b> <b>INDIC</b> <b>INDIC</b> <b>INDIC</b> <b>INDIC</b> <b>INDIC</b> <b>INDIC</b> <b>INDIC</b> <b>INDIC</b> <b>INDIC</b> <b>INDIC</b> <b>INDIC</b> <b>INDIC</b> <b>INDIC</b> <b>INDIC</b> <b>INDIC</b> <b>INDIC</b> <b>INDIC</b> <b>INDIC</b> <b>INDIC</b> <b>INDIC</b> <b>INDIC</b> <b>INDIC</b> <b>INDIC</b> <b>INDIC</b> <b>INDIC</b> <b>INDIC</b> <b>INDIC</b> <b>INDIC</b> <b>INDIC</b> <b>INDIC</b> <b>INDIC</b> <b>INDIC</b> <b>INDIC</b> <b>INDIC</b> <b>INDIC</b> <b>INDIC</b> <b>INDIC</b> <b>INDIC</b> <b>INDIC</b> <b>INDIC</b> <b>INDIC</b> <b>INDIC</b> <b>INDIC</b> <b>IN</b>	TRIP         20 A         20 A <t< td=""><td>Brar Notes: FCI BREA XISTING B EW BREA STING B POLES 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1</td><td>Number AKER. BREAKE BREAKE CAKER; D REAKER; D REAKER 2#12 2#12 2#12 2#12 2#12 2#12 2#12 2#1</td><td>Pan Loca Supply F Mour Enclo of Sect SCON RAND L GND    #12 #12 #12 #12 #12 #12 #12 #12 #12 #12</td><td>CONDUIT </td><td><b>O7N</b>         EC. 436B         JRFACE         EMA-1         T AND DEMO EXISTING LOAD         D REMOVE EXISTING BREAKE         MA-1         I ED LIGHTS         (E) LIGHTS         (E) LIGHTS         (E) LIGHTS CORRIDOR         REPRO HEALTH RECEPT         REPRO HEALTH RECEPT         REPRO HEALTH RECEPT         BREAKROOM COUNTER         IMMUNIZATION RECEPT         EWC         NURSE'S STATION RECEPT         IMMUNIZATION RECEPT         IMMUNIZATION RECEPT         IMMUNIZATION RECEPT         IMMUNIZATION RECEPT         IMMUNIZATION RECEPT         IMMUNIZATION RECEPT         IGHTING         VAV         EXISTING LOAD         EXISTING LOAD</td><td>AND PREPARE         RAND LOAD A         0.0 KVA       0.1         0.0 KVA       0.1         0.0 KVA       0.1         0.0 KVA       0.1         0.2 KVA       0.1         0.0 KVA       0.1</td><td>E BREAK AND INS 0 kVA 2 kVA 2 kVA 3 kVA 3 kVA 3 kVA 0 kVA 0 kVA 0 kVA 0 kVA 0 kVA 0 kVA 0 kVA 0 kVA</td><td>Volts:       120/208 W         Phases:       3         Wires:       4         KER FOR NEW LOAD,         TALL NEW BREAKER         0.0 kVA       0.0 kVA         1.1 kVA       1.3 kVA         1.1 kVA       1.3 kVA         0.2 kVA       0.9 kVA         0.2 kVA       0.9 kVA         0.1 kVA       1.3 kVA         0.2 kVA       0.9 kVA         0.1 kVA       1.3 kVA         0.1 kVA       0.0 kVA         0.1 kVA       0.0 kVA         0.0 kVA       0.0 kVA</td><td>/ye         AS SHOWN IN S         IN ITS PLACE.         0.0 kVA       1.3         1.1 kVA       0.7         0.9 kVA       0.9         0.1 kVA       0.3         1.1 kVA       0.7         0.9 kVA       0.9         0.0 kVA       0.9         0.1 kVA       0.7         0.0 kVA       0.9         0.0 kVA       0.9         0.0 kVA       0.0         0.0 kVA       0.0</td><td>SCHEDU 3 kVA 3 kVA</td><td>A.I.C. Rati Mains Rati Mains Rati MCB Rati JLE.</td><td>ing: 10,000 ing: 300 A ing: 304" 3/4" 3/4" 3/4" 3/4" 3/4" 3/4" 3/4" 3/</td><td><b>GND</b> #12 #12 #12 #12 #12 #12 #12 #12 #12 #12</td><td>WIRE 2#12 2#12 2#12 2#12 2#12 2#12 2#12</td><td>POLES 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1</td><td>TRIP         20 A         20 A      <t< td=""><td>CKT       A         2       4         2       4         10       1         12       1         14       1         10       2         24       2         24       2         24       2         24       2         24       2         24       3         30       32         34       36         38       40         42       44         46       48         50       52         54       56         58       60         62       66         68       70         72       74</td></t<></td></t<>	Brar Notes: FCI BREA XISTING B EW BREA STING B POLES 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Number AKER. BREAKE BREAKE CAKER; D REAKER; D REAKER 2#12 2#12 2#12 2#12 2#12 2#12 2#12 2#1	Pan Loca Supply F Mour Enclo of Sect SCON RAND L GND    #12 #12 #12 #12 #12 #12 #12 #12 #12 #12	CONDUIT 	<b>O7N</b> EC. 436B         JRFACE         EMA-1         T AND DEMO EXISTING LOAD         D REMOVE EXISTING BREAKE         MA-1         I ED LIGHTS         (E) LIGHTS         (E) LIGHTS         (E) LIGHTS CORRIDOR         REPRO HEALTH RECEPT         REPRO HEALTH RECEPT         REPRO HEALTH RECEPT         BREAKROOM COUNTER         IMMUNIZATION RECEPT         EWC         NURSE'S STATION RECEPT         IMMUNIZATION RECEPT         IMMUNIZATION RECEPT         IMMUNIZATION RECEPT         IMMUNIZATION RECEPT         IMMUNIZATION RECEPT         IMMUNIZATION RECEPT         IGHTING         VAV         EXISTING LOAD	AND PREPARE         RAND LOAD A         0.0 KVA       0.1         0.0 KVA       0.1         0.0 KVA       0.1         0.0 KVA       0.1         0.2 KVA       0.1         0.0 KVA       0.1	E BREAK AND INS 0 kVA 2 kVA 2 kVA 3 kVA 3 kVA 3 kVA 0 kVA 0 kVA 0 kVA 0 kVA 0 kVA 0 kVA 0 kVA 0 kVA	Volts:       120/208 W         Phases:       3         Wires:       4         KER FOR NEW LOAD,         TALL NEW BREAKER         0.0 kVA       0.0 kVA         1.1 kVA       1.3 kVA         1.1 kVA       1.3 kVA         0.2 kVA       0.9 kVA         0.2 kVA       0.9 kVA         0.1 kVA       1.3 kVA         0.2 kVA       0.9 kVA         0.1 kVA       1.3 kVA         0.1 kVA       0.0 kVA         0.1 kVA       0.0 kVA         0.0 kVA       0.0 kVA	/ye         AS SHOWN IN S         IN ITS PLACE.         0.0 kVA       1.3         1.1 kVA       0.7         0.9 kVA       0.9         0.1 kVA       0.3         1.1 kVA       0.7         0.9 kVA       0.9         0.0 kVA       0.9         0.1 kVA       0.7         0.0 kVA       0.9         0.0 kVA       0.9         0.0 kVA       0.0	SCHEDU 3 kVA 3 kVA	A.I.C. 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Load Classification	
Heating	
Other	
Receptacle	
Power	
Lighting	

Load Summary Notes:

![](_page_35_Picture_9.jpeg)

Connected Load	Demand Factor	Estimated Demand	Panel	Totals
2000 VA	100.00%	2000 VA		
0 VA	0.00%	0 VA	Total Conn. Load:	23378 VA
17460 VA	78.64%	13730 VA	Total Est. Demand:	20540 VA
350 VA	100.00%	350 VA	Total Conn.:	65 A
3573 VA	125.00%	4466 VA	Total Est. Demand:	57 A

ID DEMO EXISTING LOAD	AND PREP	ARE BREAI	KER FOR N	IEW LOAD	AS SHOWN	IN SCHED	OULE.							
MOVE EXISTING BREAKE	R AND LOA	AD AND INS	STALL NEW	BREAKER	IN ITS PLA	CE.								
			1		1			1	1		1		1	T
Circuit Description	l A	4	1	В		C	Circuit Description	CONDUIT	GND	WIRE	POLES	TRIP	СКТ	ABR
LIGHTS	0.0 kVA	0.0 kVA					(E) LIGHTS				1	20 A	2	
LIGHTS			0.0 kVA	0.0 kVA			(E) LIGHTS LOCKERS				1	20 A	4	
LIGHTS CORRIDOR					0.0 kVA	1.3 kVA	REPRO HEALTH RECEPT	3/4"	#12	2#12	1	20 A	6	R
LIGHTS CORRIDOR	0.0 kVA	0.7 kVA					PATIENT RR RECEPT	3/4"	#12	2#12	1	20 A	8	R
PRO HEALTH RECEPT			1.1 kVA	1.3 kVA			REPRO HEALTH RECEPT	3/4"	#12	2#12	1	20 A	10	R
PRO HEALTH RECEPT					1.1 kVA	0.7 kVA	BREAKROOM RECEPT	3/4"	#12	2#12	1	20 A	12	R
FRIGERATOR	0.2 kVA	0.2 kVA					BREAKROOM COUNTER	3/4"	#12	2#12	1	20 A	14	R
EAKROOM COUNTER			0.2 kVA	0.9 kVA			IMMUNIZATION RECEPT	3/4"	#12	2#12	1	20 A	16	R
MUNIZATION RECEPT					0.9 kVA	0.9 kVA	IMMUNIZATION RECEPT	3/4"	#12	2#12	1	20 A	18	R
VC	0.2 kVA	0.9 kVA					NURSE'S STATION RECEPT	3/4"	#12	2#12	1	20 A	20	R
IRSE'S STATION RECEPT			0.4 kVA	0.7 kVA			CORRIDOR RECEPT	3/4"	#12	2#12	1	20 A	22	R
MUNIZATION RECEPT					0.7 kVA	0.3 kVA	LIGHTING	3/4"	#12	2#12	1	20 A	24	R
IRSE'S BR RECEPT	0.9 kVA	0.7 kVA					PATIENT RR RECEPT	3/4"	#12	2#12	1	20 A	26	R
RECEPT			1.3 kVA	1.3 kVA			TB RECEPT	3/4"	#12	2#12	1	20 A	28	R
RECEPT					1.1 kVA	1.2 kVA	LIGHTING	3/4"	#12	2#12	1	20 A	30	R
GHTING	1.3 kVA	0.7 kVA					LIGHTING	3/4"	#12	2#12	1	20 A	32	R
GHTING			0.5 kVA	1.0 kVA			VAV	3/4"	#12	2#12	1	20 A	34	R
V					1.0 kVA	0.0 kVA	EXISTING LOAD				1	20 A	36	
ISTING LOAD	0.0 kVA	0.0 kVA					EXISTING LOAD				1	20 A	38	
ISTING LOAD			0.0 kVA	0.0 kVA			EXISTING LOAD				1	20 A	40	
ISTING LOAD					0.0 kVA	0.0 kVA	EXISTING LOAD				1	20 A	42	
ISTING LOAD	0.0 kVA	0.0 kVA					EXISTING LOAD				1	20 A	44	
ISTING LOAD			0.0 kVA	0.0 kVA			EXISTING LOAD				1	20 A	46	
ISTING LOAD					0.0 kVA	0.0 kVA	EXISTING LOAD				1	20 A	48	
ISTING LOAD	0.0 kVA	0.0 kVA					EXISTING LOAD				1	20 A	50	
ISTING LOAD			0.0 kVA	0.0 kVA			EXISTING LOAD				1	20 A	52	
ISTING LOAD					0.0 kVA	0.0 kVA	EXISTING LOAD				1	20 A	54	
ISTING LOAD	0.0 kVA	0.0 kVA					EXISTING LOAD				1	20 A	56	
ISTING LOAD			0.0 kVA	0.0 kVA			EXISTING LOAD				1	20 A	58	
ISTING LOAD					0.0 kVA	0.0 kVA	EXISTING LOAD				1	20 A	60	
ISTING LOAD	0.0 kVA	0.0 kVA					EXISTING LOAD				1	20 A	62	
ISTING LOAD			0.0 kVA	0.0 kVA			EXISTING LOAD				1	20 A	64	
ISTING LOAD					0.0 kVA	0.0 kVA	EXISTING LOAD				1	20 A	66	
ISTING LOAD	0.0 kVA	0.0 kVA					EXISTING LOAD				1	20 A	68	
ISTING LOAD			0.0 kVA	0.0 kVA			EXISTING LOAD				1	20 A	70	
ISTING LOAD					0.0 kVA	0.0 kVA	EXISTING LOAD				1	20 A	72	
ISTING LOAD	0.0 kVA	0.0 kVA					(E) EX FAN 2 & 4				1	20 A	74	
ISTING LOAD			0.0 kVA	0.0 kVA			(E) UNKNOWN				2	20 A	76	
ISTING LOAD					0.0 kVA	0.0 kVA							78	
EX FAN 34	0.0 kVA	0.0 kVA					(E) PANEL "206N"				3	80 A	80	
EX FAN 28			0.0 kVA	0.0 kVA									82	
						0.0 kVA							84	
	5769	AV 6	848	5 VA	912	6 VA								-
	48	Δ	7/	ΙA	20	) Δ	1							
	+0		1 19		00									

Totals	Panel 1	Estimated Demand	Demand Factor	Connected Load
		150 VA	100.00%	150 VA
4895 VA	Total Conn. Load:	360 VA	100.00%	360 VA
5241 VA	Total Est. Demand:	1731 VA	125.00%	1385 VA
14 A	Total Conn.:	3000 VA	100.00%	3000 VA
15 A	Total Est. Demand:			
1				

![](_page_35_Figure_18.jpeg)

3/27/2025 8:45:4

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                                        | Moun<br>Enclos                                                                                                                                                                                        | <b>rom:</b><br>iting: SU<br>sure: NE                                                                                                                                                                                       | RFACE<br>MA-1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             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CONDUIT 3/4" 3/4"</td><td>D7C<br/>EC. 436B<br/>RFACE<br/>MA-1<br/>AND DEMO EXISTING LOAD<br/>D REMOVE EXISTING BREAKING<br/>D REMOVE EXISTING BREAKING<br/>EXISTING LOAD<br/>EXISTING LOAD<br/>EXISTING LOAD<br/>EXISTING LOAD<br/>EXISTING LOAD<br/>=-<br/>EXISTING LOAD<br/>=-<br/>EXISTING LOAD<br/>=-<br/>EXISTING LOAD<br/>=-<br/>EXISTING LOAD</td><td>O AND PREPAR         C AND PREPAR         C AND LOAD         A         0.0 kVA         0.0 kVA</td><td>E BREAK<br/>AND INS<sup>-</sup><br/>0.0 kVA<br/>0.0 kVA<br/>0.0 kVA</td><td>Volts:       120/208 \         Phases:       3         Wires:       4         ER FOR NEW LOAE         ALL NEW BREAKE         0.0 kVA       0.0 kVA         1.5 kVA       0.0 kVA         0.0 kVA       0.0 kVA</td><td>Vye<br/>O AS SHOWN<br/>R IN ITS PLA<br/>0.0 kVA<br/>0.0 kVA<br/>0.0 kVA<br/>0.0 kVA</td><td>N IN SCHED<br/>CE.<br/>0.9 kVA<br/>0.0 kVA<br/>0.0 kVA</td><td>A.I.C. Ra<br/>Mains Ra<br/>Mains Ra<br/>MLO Ra<br/>ULE.<br/>ULE.<br/>ULE.<br/>ULE.<br/>EXISTING LOAD<br/>EXISTING LOAD</td><td>ting: 10,00<br/>ting: 100 A<br/>ting: 225 A<br/>ting: 225 A<br/><br/><br/>3/4"<br/>3/4"<br/><br/><br/><br/><br/><br/><br/><br/><br/><br/>-</td><td>0            #12         #12         #12         #12            #12                                                                                                                                               </td><td>WIRE 2#12 2#12 2#12 2#12</td><td>POL<br/>1<br/>1<br/>1<br/>1<br/>1<br/>2<br/><br/>2<br/><br/>2<br/><br/>1<br/>1<br/>1<br/>1<br/>1<br/>1</td></t<>                                                                                                                        
                                                                                                                                                                                                                                                         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DIA<br/><b>A</b>KER<br/><b>I</b>RE<br/><b>-</b><br/><b>-</b><br/><b>-</b><br/><b>-</b><br/><b>-</b><br/><b>-</b><br/><b>-</b><br/><b>-</b></td><td>Pan<br/>Loca<br/>upply F<br/>Moun<br/>Enclos<br/>of Secti<br/>R; DISC<br/>SCONN<br/>AND LC<br/>GND C<br/><br/><br/><br/><br/><br/><br/><br/><br/><br/><br/><br/><br/></td><td>el: 20 tion: ELE from: ting: SU sure: NE ions: 1 CONNECT IECT ANE DAD. 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CONDUIT</td><td>D7C<br/>EC. 436B<br/>RFACE<br/>MA-1<br/>AND DEMO EXISTING LOAD<br/>D REMOVE EXISTING BREAKI<br/>D REMOVE EXISTING BREAKI<br/>EXISTING LOAD<br/>EXISTING LOAD<br/>EXISTING LOAD<br/>EXISTING LOAD<br/>EXISTING LOAD<br/>EXISTING LOAD<br/>=-<br/>EXISTING LOAD<br/>=-<br/>EXISTING LOAD<br/>=-<br/>EXISTING LOAD<br/>=-<br/>EXISTING LOAD<br/>=-<br/>EXISTING LOAD<br/>=-<br/>EXISTING LOAD<br/>EXISTING LOAD</td><td>AND PREPAR         R AND LOAD         I.3 kVA         I.3 kVA</td><td>E BREAK<br/>AND INS<sup>-</sup><br/>0.0 kVA<br/>1.1 kVA<br/>0.0 kVA<br/>0.0 kVA<br/>0.0 kVA<br/>0.0 kVA<br/>0.0 kVA</td><td>Volts:       120/208 \         Phases:       3         Wires:       4         ER FOR NEW LOAE         ALL NEW BREAKE         0.0 kVA       0.0 kVA         1.5 kVA       0.0 kVA         0.0 kVA       0.0 kVA         1480 VA       12 A</td><td>Vye<br/>AS SHOWN<br/>R IN ITS PLA<br/>0.0 kVA<br/>0.0 kVA<br/>0.0 kVA<br/>0.0 kVA<br/>0.0 kVA<br/>0.0 kVA<br/>0.0 kVA<br/>2<br/>0.0 kVA<br/>2<br/>0<br/>0.0 kVA<br/>2<br/>0<br/>0.0 kVA<br/>2<br/>0<br/>0.0 kVA<br/>2<br/>0<br/>0.0 kVA<br/>2<br/>0<br/>0.0 kVA<br/>2<br/>0<br/>0.0 kVA<br/>2<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td>N IN SCHED<br/>C.<br/>0.9 kVA<br/>0.0 kVA<br/>0.0 kVA<br/>0.0 kVA<br/>0.0 kVA<br/>0.0 kVA<br/>0.0 kVA<br/>0.0 kVA</td><td>A.I.C. 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                     | E BREAK<br>AND INS <sup>-</sup><br>0.0 kVA<br>1.1 kVA<br>0.0 kVA<br>0.0 kVA<br>0.0 kVA<br>0.0 kVA<br>0.0 kVA            | Volts:       120/208 \         Phases:       3         Wires:       4         ER FOR NEW LOAE         ALL NEW BREAKE         0.0 kVA       0.0 kVA         1.5 kVA       0.0 kVA         0.0 kVA       0.0 kVA         1480 VA       12 A                                                                                                                                                                                                                                                                                                                                                          | Vye<br>AS SHOWN<br>R IN ITS PLA<br>0.0 kVA<br>0.0 kVA<br>0.0 kVA<br>0.0 kVA<br>0.0 kVA<br>0.0 kVA<br>0.0 kVA<br>2<br>0.0 kVA<br>2<br>0<br>0.0 kVA<br>2<br>0<br>0.0 kVA<br>2<br>0<br>0.0 kVA<br>2<br>0<br>0.0 kVA<br>2<br>0<br>0.0 kVA<br>2<br>0<br>0.0 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Ra<br>Mains Ra<br>Mains Ra<br>MLO Ra<br>ULE.<br>ULE.<br>ULE.<br>ULE.<br>ULE.<br>ULE.<br>ULE.<br>ULE.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | ting: 10,00<br>ting: 10,00<br>ting: 100 A<br>ting: 225 A                                                                                                                                            | 0            #12         #12         #12         #12         #12            #12         #12         #12         #12                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | WIRE 2#12 2#12 2#12 2#12 2#12 2#12  | POL<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1 |
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<td>Pan<br/>Loca<br/>upply F<br/>Moun<br/>Enclos<br/>of Secti<br/>R; DISC<br/>SCONN<br/>AND LO<br/></td> <td><b>el: 2</b>(<br/>tion: ELE<br/>from:<br/>ting: SU<br/>sure: NE<br/>ions: 1<br/>CONNECT<br/>IECT ANE<br/>DAD.<br/>CONDUIT<br/><br/><br/><br/><br/><br/><br/><br/>-</td> <td>D7C<br/>EC. 436B<br/>RFACE<br/>MA-1<br/>AND DEMO EXISTING LOAD<br/>REMOVE EXISTING BREAK<br/>EXISTING LOAD<br/>EXISTING LOAD<br/>=-<br/>EXISTING LOAD<br/>=-<br/>EXISTING LOAD<br/>=-<br/>EXISTING LOAD<br/>EXISTING LOAD</td> <td>AND PREPAR         AND PREPAR         R AND LOAD         I 1.3 KVA         I 1.3 KVA      <tr< td=""><td>E BREAK<br/>AND INS<sup>-</sup><br/>0.0 kVA<br/>1.1 kVA<br/>0.0 kVA<br/>0.0 kVA<br/>0.0 kVA<br/>0.0 kVA</td><td>Volts:       120/208 \         Phases:       3         Wires:       4         ER FOR NEW LOAE         ALL NEW BREAKE         0.0 kVA       0.0 kVA         1.5 kVA       0.0 kVA         0.0 kVA       0.0 kVA         1480 VA       12 A         1480 VA       12 A</td><td>OAS SHOWN         Nye         OAS SHOWN         IN ITS PLA         0.0 kVA         0.0 kVA</td><td>C<br/>0.9 kVA<br/>0.0 kVA</td><td>A.I.C. Ra<br/>Mains Ra<br/>Mains Ra<br/>MLO Ra<br/>ULE.<br/>ULE.<br/>ULE.<br/>ULE.<br/>ULE.<br/>ULE.<br/>ULE.<br/>EXISTING LOAD<br/>EXISTING LOAD</td><td>ting: 10,00<br/>ting: 100 Å<br/>ting: 225 Å<br/>CONDUIT<br/><br/>3/4"<br/>3/4"<br/><br/>3/4"<br/>3/4"<br/><br/><br/>3/4"<br/>3/4"<br/><br/><br/><br/><br/><br/><br/><br/><br/><br/>-</td><td>Image: Control of the second secon</td><td>WIRE  2#12 2#12 2#12 2#12 2#12</td><td>POL<br/>1<br/>1<br/>1<br/>1<br/>1<br/>1<br/>1<br/>1<br/>1<br/>1<br/>1<br/>1<br/>1</td></tr<></td>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      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I<br><b>S</b><br><b>mber</b><br><b>E</b> R.<br><b>E</b> AKE<br><b>R</b> ; DI<br><b>A</b> KER<br><b>/IRE</b><br><b>-</b><br><b>-</b><br><b>-</b><br><b>-</b><br><b>-</b><br><b>-</b><br><b>-</b><br><b>-</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              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SU<br>sure: NE<br>ions: 1<br>CONNECT<br>IECT ANE<br>DAD.<br>CONDUIT<br><br><br><br><br><br><br><br>-                                                                         | D7C<br>EC. 436B<br>RFACE<br>MA-1<br>AND DEMO EXISTING LOAD<br>REMOVE EXISTING BREAK<br>EXISTING LOAD<br>EXISTING LOAD<br>=-<br>EXISTING LOAD<br>=-<br>EXISTING LOAD<br>=-<br>EXISTING LOAD<br>EXISTING LOAD                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               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Ra<br/>Mains Ra<br/>Mains Ra<br/>MLO Ra<br/>ULE.<br/>ULE.<br/>ULE.<br/>ULE.<br/>ULE.<br/>ULE.<br/>ULE.<br/>EXISTING LOAD<br/>EXISTING LOAD</td><td>ting: 10,00<br/>ting: 100 Å<br/>ting: 225 Å<br/>CONDUIT<br/><br/>3/4"<br/>3/4"<br/><br/>3/4"<br/>3/4"<br/><br/><br/>3/4"<br/>3/4"<br/><br/><br/><br/><br/><br/><br/><br/><br/><br/>-</td><td>Image: Control of the second secon</td><td>WIRE  2#12 2#12 2#12 2#12 2#12</td><td>POL<br/>1<br/>1<br/>1<br/>1<br/>1<br/>1<br/>1<br/>1<br/>1<br/>1<br/>1<br/>1<br/>1</td></tr<>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           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| Load Sum         Panel Sch         G - INDIC/         R - INDIC/         E - INDIC/         I         1            7         R         9         N         11            13            17            18            19            12         23            21            23            21            225            231            231            231            231            33            31            32                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          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CONDUIT 3/4" 3/4" 3/4"                                                                                                                               | D7C<br>EC. 436B<br>RFACE<br>MA-1<br>AND DEMO EXISTING LOAD<br>D REMOVE EXISTING BREAKING<br>EXISTING LOAD<br>EXISTING LOAD<br>E       | AND PREPAR         AND PREPAR         R AND LOAD         I 1.3 KVA         I 1.3 KVA <tr< td=""><td>E BREAK<br/>AND INS<sup>-</sup><br/>0.0 kVA<br/>0.0 kVA<br/>0.0 kVA<br/>0.0 kVA<br/>0.0 kVA<br/>0.0 kVA</td><td>Volts:       120/208 \         Phases:       3         Wires:       4         ER FOR NEW LOAE         ALL NEW BREAKE         0.0 kVA       0.0 kVA         1.5 kVA       0.0 kVA         0.0 kVA       0.0 kVA         1480 VA       12 A         100.00%       100.00%</td><td>O       AS       SHOWN         N       Vye       Vye         O       AS       SHOWN         N       IN       ITS         PLAC       0.0       kVA         0        2820         2        2820         2        2820         2        2820         2        2820         2        2820         2        2820         2        2820         2<td>C<br/>0.9 kVA<br/>0.0 kVA</td><td>A.I.C. 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| Load Sum         Panel Sci         G - INDIC,         R - INDIC,         R - INDIC,         E - INDIC,         E - INDIC,         E - INDIC,         E - INDIC,         N - INDIC,         E - INDIC,         Sum         ABR         CKT            1            1            1            1            1            1            1            1            10            11            12         23            21            23            241            31            32            31            32                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              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DIA<br/><b>AKER</b><br/><b>/IRE</b><br/><b></b><br/><b></b><br/><b></b><br/><b></b><br/><b></b><br/><b></b><br/><b></b><br/><b></b><br/><b></b><br/><b></b><br/><b></b><br/><b></b><br/><b></b><br/><b></b><br/><b></b><br/><b></b><br/><b></b><br/><b></b><br/><b></b><br/><b></b><br/><b></b><br/><b></b><br/><b></b><br/><b></b><br/><b></b><br/><b></b><br/><b></b><br/><b></b><br/><b></b><br/><b></b><br/><b></b><br/><b></b><br/><b></b><br/><b></b><br/><b></b><br/><b></b><br/><b></b><br/><b></b><br/><b></b><br/><b></b><br/><b></b><br/><b></b><br/><b></b><br/><b></b><br/><b></b><br/><b></b><br/><b></b><br/><b></b><br/><b></b><br/><b></b><br/><b></b><br/><b></b><br/><b></b><br/><b></b><br/><b></b><br/><b></b><br/><b></b><br/><b></b><br/><b></b><br/><b></b><br/><b></b><br/><b></b><br/><b></b><br/><b></b><br/><b></b><br/><b></b><br/><b></b><br/><b></b><br/><b></b><br/><b></b><br/><b></b><br/><b></b><br/><b></b><br/><b></b><br/><b></b><br/><b></b><br/><b></b><br/><b></b><br/><b></b><br/><b></b><br/><b></b><br/><b></b><br/><b></b><br/><b></b><br/><b></b><br/><b></b><br/><b></b><br/><b></b><br/><b></b><br/><b></b><br/><b></b><br/><b></b><br/><b></b><br/><b></b><br/><b></b><br/><b></b><br/><b></b><br/><b></b><br/><b></b><br/><b></b><br/><b></b><br/><b></b><br/><b></b><br/><b></b><br/><b></b><br/><b></b><br/><b></b><br/><b></b><br/><b></b><br/><b></b><br/><b></b><br/><b></b><br/><b></b><br/><b></b><br/><b></b><br/><b></b><br/><b></b><br/><b></b><br/><b></b><br/><b></b><br/><b></b><br/><b></b><br/><b></b><br/><b></b><br/><b></b><br/><b></b><br/><b></b><br/><b></b><br/><b></b><br/><b></b><br/><b></b><br/><b></b><br/><b></b><br/><b></b><br/><b></b><br/><b></b><br/><b></b><br/><b></b><br/><b></b><br/><b></b><br/><b></b><br/><b></b><br/><b></b><br/><b></b><br/><b></b><br/><b></b><br/><b></b><br/><b></b><br/><b></b><br/><b></b><br/><b></b><br/><b></b><br/><b></b><br/><b></b><br/><b></b><br/><b></b><br/><b></b><br/><b></b><br/><b></b><br/><b></b><br/><b></b><br/><b></b><br/><b></b><br/><b></b><br/><b></b><br/><b></b><br/><b></b><br/><b></b><br/><b></b><br/><b></b><br/><b></b><br/><b></b><br/><b></b><br/><b></b><br/><b></b><br/><b></b><br/><b></b><br/><b></b><br/><b></b><br/><b></b><br/><b></b><br/><b></b><br/><b></b><br/><b></b><br/><b></b><br/><b></b><br/><b></b><br/><b></b><br/><b></b><br/><b></b><br/><b></b><br/><b></b><br/><b></b><br/><b></b><br/><b></b><br/><b></b><br/><b></b><br/><b></b><br/><b></b><br/><b></b><br/><b></b><br/><b></b><br/><b></b><br/><b></b><br/><b></b><br/><b></b><br/><b></b><br/><b></b><br/><b></b><br/><b></b><br/><b></b><br/><b></b><br/><b></b><br/><b></b><br/><b></b><br/><b></b><br/><b></b><br/><b></b><br/><b></b><br/><b></b><br/><b></b><br/><b></b><br/><b></b><br/><b></b><br/><b></b><br/><b></b><br/><b></b><br/><b></b><br/><b></b><br/><b></b><br/><b></b><br/><b></b><br/><b></b><br/><b></b><br/><b></b><br/><b></b><br/><b></b><br/><b></b><br/><b></b><br/><b></b><br/><b></b><br/><b></b><br/><b></b><br/><b></b><br/><b></b><br/><b></b><br/><b></b><br/><b></b><br/><b></b><br/><b></b><br/><b></b><br/><b></b><br/><b></b><br/><b></b><br/><b></b><br/><b></b><br/><b></b><br/><b></b><br/><b></b><br/><b></b><br/><b></b><br/><b></b><br/><b></b><br/><b></b><br/><b></b><br/><b></b><br/><b></b><br/><b></b><br/><b></b><br/><b></b><br/><b></b><br/><b></b><br/><b></b><br/><b></b><br/><b></b><br/><b></b><br/><b></b><br/><b></b><br/><b></b><br/><b></b><br/><b></b><br/><b></b><br/><b></b><br/><b></b><br/><b></b><br/><b></b><br/><b></b><br/><b></b><br/><b></b><br/><b></b><br/><b></b><br/><b></b><br/><b></b><br/><b></b><br/><b></b><br/><b></b><br/><b></b><br/><b></b><br/><b></b><br/><b></b><br/><b></b><br/><b></b><br/><b></b><br/><b></b><br/><b></b><br/><b></b><br/><b></b><br/><b></b><br/><b></b><br/><b></b><br/><b></b><br/><b></b><br/><b></b><br/><b></b><br/><b></b><br/><b></b><br/><b></b><br/><b></b><br/><b></b><br/><b></b><br/><b></b><br/><b></b><br/><b></b><br/><b></b><br/><b></b><br/><b></b><br/><b></b><br/><b></b><br/><b></b><br/><b></b><br/><b></b></td> <td>Pan<br/>Loca<br/>upply F<br/>Moun<br/>Enclos<br/>of Secti<br/>R; DISC<br/>SCONN<br/>AND LO<br/>GND C<br/></td> <td>el: 20 tion: ELE from: ting: SU sure: NE ions: 1 CONNECT ions: 1 CONNECT IECT AND DAD. CONDUIT 3/4" 3/4"</td> <td>D7C<br/>EC. 436B<br/>RFACE<br/>MA-1<br/>AND DEMO EXISTING LOAD<br/>PREMOVE EXISTING BREAK<br/>EXISTING LOAD<br/>EXISTING LOAD<br/>EXISTING LOAD<br/>EXISTING LOAD<br/>EXISTING LOAD<br/>EXISTING LOAD<br/>EXISTING LOAD<br/>=-<br/>EXISTING LOAD<br/>=-<br/>EXISTING LOAD<br/>=-<br/>EXISTING LOAD<br/>EXISTING LOAD<br/>=-<br/>EXISTING LOAD<br/>EXISTING LOAD<br/>EXIS</td> <td>AND PREPAR         AND PREPAR         R AND LOAD         0.0 kVA       0         1.3 kVA       1         0.0 kVA       0         0 k       0         0 k       0         0 k       0         0 k&lt;</td> <td>E BREAK<br/>AND INS<sup>-</sup><br/>0.0 kVA<br/>1.1 kVA<br/>0.0 kVA<br/>0.0 kVA<br/>0.0 kVA<br/>0.0 kVA<br/>0.0 kVA<br/>0.0 kVA</td> <td>Volts:       120/208 \         Phases:       3         Wires:       4         ER FOR NEW LOAE         ALL NEW BREAKE         0.0 kVA       0.0 kVA         1.5 kVA       0.0 kVA         0.0 kVA       0.0 kVA         1480 VA       12 A         mand Factor       100.00%         100.00%       100.00%         125.00%      </td> <td>Vye<br/>O AS SHOWN<br/>R IN ITS PLA<br/>0.0 kVA<br/>0.0 kVA<br/>0.0 kVA<br/>0.0 kVA<br/>0.0 kVA<br/>0.0 kVA<br/>0.0 kVA<br/>0.0 kVA<br/>2<br/>0.0 kVA<br/>2<br/>0<br/>0.0 kVA<br/>2<br/>0<br/>0.0 kVA<br/>2<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td> <td>C<br/>0.9 KVA<br/>0.0 KVA</td> <td>A.I.C. Ra<br/>Mains Ra<br/>Mains Ra<br/>MLO Ra<br/>ULE.<br/>ULE.<br/>ULE.<br/>ULE.<br/>ULE.<br/>MED STORAGE RECEPT<br/>EXISTING LOAD<br/>EXISTING LOAD</td> <td>ting: 10,00<br/>ting: 100 A<br/>ting: 225 A<br/>ting: 225 A<br/>ting: 225 A<br/>CONDUIT<br/><br/>3/4"<br/>3/4"<br/>3/4"<br/><br/>3/4"<br/>3/4"<br/><br/><br/>3/4"<br/>3/4"<br/><br/><br/><br/><br/><br/><br/><br/><br/><br/>-</td> <td>GND         #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                                                                                   </td> <td>WIRE  2#12 2#12 2#12 2#12 2#12 2#12</td> <td>POL 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1</td> | tes:         Image: Strest st | <b>Ch</b> I<br><b>S</b><br><b>mber</b><br><b>E</b> R.<br><b>E</b> AKE<br><b>R</b> ; DIA<br><b>AKER</b><br><b>/IRE</b><br><b></b><br><b></b><br><b></b><br><b></b><br><b></b><br><b></b><br><b></b><br><b></b><br><b></b><br><b></b><br><b></b><br><b></b><br><b></b><br><b></b><br><b></b><br><b></b><br><b></b><br><b></b><br><b></b><br><b></b><br><b></b><br><b></b><br><b></b><br><b></b><br><b></b><br><b></b><br><b></b><br><b></b><br><b></b><br><b></b><br><b></b><br><b></b><br><b></b><br><b></b><br><b></b><br><b></b><br><b></b><br><b></b><br><b></b><br><b></b><br><b></b><br><b></b><br><b></b><br><b></b><br><b></b><br><b></b><br><b></b><br><b></b><br><b></b><br><b></b><br><b></b><br><b></b><br><b></b><br><b></b><br><b></b><br><b></b><br><b></b><br><b></b><br><b></b><br><b></b><br><b></b><br><b></b><br><b></b><br><b></b><br><b></b><br><b></b><br><b></b><br><b></b><br><b></b><br><b></b><br><b></b><br><b></b><br><b></b><br><b></b><br><b></b><br><b></b><br><b></b><br><b></b><br><b></b><br><b></b><br><b></b><br><b></b><br><b></b><br><b></b><br><b></b><br><b></b><br><b></b><br><b></b><br><b></b><br><b></b><br><b></b><br><b></b><br><b></b><br><b></b><br><b></b><br><b></b><br><b></b><br><b></b><br><b></b><br><b></b><br><b></b><br><b></b><br><b></b><br><b></b><br><b></b><br><b></b><br><b></b><br><b></b><br><b></b><br><b></b><br><b></b><br><b></b><br><b></b><br><b></b><br><b></b><br><b></b><br><b></b><br><b></b><br><b></b><br><b></b><br><b></b><br><b></b><br><b></b><br><b></b><br><b></b><br><b></b><br><b></b><br><b></b><br><b></b><br><b></b><br><b></b><br><b></b><br><b></b><br><b></b><br><b></b><br><b></b><br><b></b><br><b></b><br><b></b><br><b></b><br><b></b><br><b></b><br><b></b><br><b></b><br><b></b><br><b></b><br><b></b><br><b></b><br><b></b><br><b></b><br><b></b><br><b></b><br><b></b><br><b></b><br><b></b><br><b></b><br><b></b><br><b></b><br><b></b><br><b></b><br><b></b><br><b></b><br><b></b><br><b></b><br><b></b><br><b></b><br><b></b><br><b></b><br><b></b><br><b></b><br><b></b><br><b></b><br><b></b><br><b></b><br><b></b><br><b></b><br><b></b><br><b></b><br><b></b><br><b></b><br><b></b><br><b></b><br><b></b><br><b></b><br><b></b><br><b></b><br><b></b><br><b></b><br><b></b><br><b></b><br><b></b><br><b></b><br><b></b><br><b></b><br><b></b><br><b></b><br><b></b><br><b></b><br><b></b><br><b></b><br><b></b><br><b></b><br><b></b><br><b></b><br><b></b><br><b></b><br><b></b><br><b></b><br><b></b><br><b></b><br><b></b><br><b></b><br><b></b><br><b></b><br><b></b><br><b></b><br><b></b><br><b></b><br><b></b><br><b></b><br><b></b><br><b></b><br><b></b><br><b></b><br><b></b><br><b></b><br><b></b><br><b></b><br><b></b><br><b></b><br><b></b><br><b></b><br><b></b><br><b></b><br><b></b><br><b></b><br><b></b><br><b></b><br><b></b><br><b></b><br><b></b><br><b></b><br><b></b><br><b></b><br><b></b><br><b></b><br><b></b><br><b></b><br><b></b><br><b></b><br><b></b><br><b></b><br><b></b><br><b></b><br><b></b><br><b></b><br><b></b><br><b></b><br><b></b><br><b></b><br><b></b><br><b></b><br><b></b><br><b></b><br><b></b><br><b></b><br><b></b><br><b></b><br><b></b><br><b></b><br><b></b><br><b></b><br><b></b><br><b></b><br><b></b><br><b></b><br><b></b><br><b></b><br><b></b><br><b></b><br><b></b><br><b></b><br><b></b><br><b></b><br><b></b><br><b></b><br><b></b><br><b></b><br><b></b><br><b></b><br><b></b><br><b></b><br><b></b><br><b></b><br><b></b><br><b></b><br><b></b><br><b></b><br><b></b><br><b></b><br><b></b><br><b></b><br><b></b><br><b></b><br><b></b><br><b></b><br><b></b><br><b></b><br><b></b><br><b></b><br><b></b><br><b></b><br><b></b><br><b></b><br><b></b><br><b></b><br><b></b><br><b></b><br><b></b><br><b></b><br><b></b><br><b></b><br><b></b><br><b></b><br><b></b><br><b></b><br><b></b><br><b></b><br><b></b><br><b></b><br><b></b> | Pan<br>Loca<br>upply F<br>Moun<br>Enclos<br>of Secti<br>R; DISC<br>SCONN<br>AND LO<br>GND C<br>                                                                                                       | el: 20 tion: ELE from: ting: SU sure: NE ions: 1 CONNECT ions: 1 CONNECT IECT AND DAD. CONDUIT 3/4" 3/4"                                                                                                                   | D7C<br>EC. 436B<br>RFACE<br>MA-1<br>AND DEMO EXISTING LOAD<br>PREMOVE EXISTING BREAK<br>EXISTING LOAD<br>EXISTING LOAD<br>EXISTING LOAD<br>EXISTING LOAD<br>EXISTING LOAD<br>EXISTING LOAD<br>EXISTING LOAD<br>=-<br>EXISTING LOAD<br>=-<br>EXISTING LOAD<br>=-<br>EXISTING LOAD<br>EXISTING LOAD<br>=-<br>EXISTING LOAD<br>EXISTING LOAD<br>EXIS | AND PREPAR         AND PREPAR         R AND LOAD         0.0 kVA       0         1.3 kVA       1         0.0 kVA       0         0 k       0         0 k       0         0 k       0         0 k<                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | E BREAK<br>AND INS <sup>-</sup><br>0.0 kVA<br>1.1 kVA<br>0.0 kVA<br>0.0 kVA<br>0.0 kVA<br>0.0 kVA<br>0.0 kVA<br>0.0 kVA | Volts:       120/208 \         Phases:       3         Wires:       4         ER FOR NEW LOAE         ALL NEW BREAKE         0.0 kVA       0.0 kVA         1.5 kVA       0.0 kVA         0.0 kVA       0.0 kVA         1480 VA       12 A         mand Factor       100.00%         100.00%       100.00%         125.00%                                                                                                                                                                                | Vye<br>O AS SHOWN<br>R IN ITS PLA<br>0.0 kVA<br>0.0 kVA<br>0.0 kVA<br>0.0 kVA<br>0.0 kVA<br>0.0 kVA<br>0.0 kVA<br>0.0 kVA<br>2<br>0.0 kVA<br>2<br>0<br>0.0 kVA<br>2<br>0<br>0.0 kVA<br>2<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         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Ra<br>Mains Ra<br>Mains Ra<br>MLO Ra<br>ULE.<br>ULE.<br>ULE.<br>ULE.<br>ULE.<br>MED STORAGE RECEPT<br>EXISTING LOAD<br>EXISTING LOAD                                                                                                                                                                                   | ting: 10,00<br>ting: 100 A<br>ting: 225 A<br>ting: 225 A<br>ting: 225 A<br>CONDUIT<br><br>3/4"<br>3/4"<br>3/4"<br><br>3/4"<br>3/4"<br><br><br>3/4"<br>3/4"<br><br><br><br><br><br><br><br><br><br>- | GND         #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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | WIRE  2#12 2#12 2#12 2#12 2#12 2#12 | POL 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1                                                          |

rs\brettg\Documents\25-002 H2 HEALTH UNIT R24 2025.01.09\_nickVSBUE.r

		S Number	Loc Supply Mou Enclo of Sec	ation: From: Inting: SUF Inting: NEN Inting: 2	RFACE //A-1			Volts: Phases: Wires:	120/208 W 3 4	ye		A.I.C. Rat Mains Rat MLO Rat	ing: 10,000 ing: 125 A ing: 125 A	)				
anel Schedule	Notes:																	
- INDICATES - INDICATES - INDICATES - INDIATES E	GFCI BRE EXISTING NEW BRE (ISTING B	AKER. BREAKE AKER; D REAKER	ER; DIS ISCON R AND I	CONNECT NECT AND LOAD.	AND DEMO EXISTING REMOVE EXISTING E	LOAD AND PREF REAKER AND LO	PARE BREAN AD AND INS	KER FOR N TALL NEW	iew load . ' Breaker	AS SHOWN IN ITS PLA	I IN SCHED .CE.	ULE.						
BRICKI IRIF R 1 20 A	POLES	2#12	<b>GND</b> #12	3/4"		on 0.5 kVA	<b>A</b> 0.5 kVA	l	B		5		3/4"	<b>GND</b> #12	2#12	1 20	P CK	
R 3 20 A	1	2#12	#12	3/4"	FURNITURE FEED 1			0.5 kVA	0.5 kVA			FURNITURE FEED 2	3/4"	#12	2#12	1 20	A 4	+
R 5 20 A	1	2#12	#12	3/4"	FURNITURE FEED 1		0.5.13/4			0.5 kVA	0.5 kVA	FURNITURE FEED 2	3/4"	#12	2#12	1 20	A 6	$\square$
x / 20A R 9 20A	1	2#12 2#12	#12 #12	3/4" 3/4"	FURNITURE FEED 3	0.5 KVA	0.5 KVA	0.5 kVA	0.5 kVA				3/4" 3/4"	#12 #12	2#12 2#12	1 20	<u> </u>	+
<u>207</u> <u>2</u> 11 20 A	1	2#12	#12	3/4"	FURNITURE FEED 3					0.5 kVA	0.5 kVA	FURNITURE FEED 4	3/4"	#12	2#12	1 20	<u>A</u> 12	2
R 13 20 A	1	2#12	#12	3/4"	FURNITURE FEED 3	0.5 kVA	0.5 kVA	0.5.1.1	0.5.1.1.1			FURNITURE FEED 4	3/4"	#12	2#12	1 20	A 14	<u>i</u>
く 15 20 A	1	2#12	#12 #12	3/4"				0.5 kVA	0.5 kVA				3/4"	#12	2#12	1 20	16 A	ز 1
R 17 20 A R 19 20 A	1	2#12	#12	3/4"	FURNITURE FEED 5	0.5 kVA	0.5 kVA			0.5 KVA	0.5 KVA	FURNITURE FEED 6	3/4"	#12	2#12	1 20	A 10 A 20	<u>}</u>
R 21 20 A	1	2#12	#12	3/4"	FURNITURE FEED 5			0.5 kVA	0.5 kVA			FURNITURE FEED 6	3/4"	#12	2#12	1 20	<u>کا ک</u>	2
23 20 A	1	2#12	#12	3/4"	FURNITURE FEED 5		4 4 1 1 1 1			0.5 kVA	0.5 kVA	FURNITURE FEED 6	3/4"	#12	2#12	1 20	A 24	Ļ
· 25 20 A	1	 2#12	 #12	 3///"	EXISTING LOAD	0.0 kVA	1.4 kVA	146//1	041/1				3/4"	#12 #12	2#12	1 20	4   26 4   29	<u>ז</u> ג
21 20 A	1	2#12	#12 #12	3/4"	RECEPT - FILE ROOM	+		1.4 KVA	0.4 KVA	0.7 kVA	1.2 kVA	EM LIGHTING	3/4"	#12	2#12	1 20	- 20 - 30	; j
31 20 A	1	2#12	#12	3/4"	RECEPT - CLERK	0.9 kVA	0.5 kVA					EM LIGHTING	3/4"	#12	2#12	1 20	۹ <u>32</u>	2
33 20 A	1	2#12	#12	3/4"	RECEPT - COR			0.5 kVA	0.9 kVA	0.511/1	0.711/1	RECEPT - COR	3/4"	#12	2#12	1 20	A 34	Ļ
35 20 A	1	2#12 2#12	#12 #12	3/4"		061///	0.7 k\/A			0.5 kVA	0.7 kVA	RECEPT - AST. PM	3/4"	#12 #12	2#12	1 20	4 36 1 29	<u>)</u> 2
39 20 A	1	2#12	#12 #12	3/4"	FURNITURE FEED 7	0.0 KVA	0.7 KVA	0.5 kVA	0.0 kVA			EXISTING LOAD		#1Z	<u>_</u>	1 20	- 30 - 40	; ر
41 20 A	1	2#12	#12	3/4"	FURNITURE FEED 7					0.5 kVA	0.0 kVA	EXISTING LOAD				1 20	42	2
43 20 A	1	2#12	#12	3/4"	FURNITURE FEED 7	0.5 kVA	0.0 kVA	0.511/1	0.011/1			EXISTING LOAD				1 20	44	Ļ
45 20 A	1	2#12 2#12	#12 #12	3/4"	FURNITURE FEED 9			0.5 kVA	0.0 kVA	$0.5 k V \Delta$	0.0 k)/A					1 20	46 ∆ ⊿9	2
20 A	1	2#12	#12	3/4"	FURNITURE FEED 8	0.5 kVA	0.0 kVA			0.0 KVA	0.0 KVA	EXISTING LOAD				1 20	<u>، 40</u> ۲ 50	;   (
51 20 A	1	2#12	#12	3/4"	FURNITURE FEED 8			0.5 kVA	0.0 kVA			EXISTING LOAD				1 20	A 52	2
53 20 A	1	2#12	#12	3/4"	FURNITURE FEED 8	0.412/4	0.012/4			0.5 kVA	0.0 kVA					1 20	<u>\</u> 54	1
C 55 20 A	1	2#12	#12	3/4"		0.4 KVA	0.0 KVA	0.0 k\/A	0.0 k\/A			EXISTING LOAD				1 20	4 56 4 58	י ז
59 20 A	1				EXISTING LOAD			0.0 1.071	0.0 1077	0.0 kVA	0.0 kVA	(E)EXH FAN #1 EF-37				1 20	A 60	, )
61 20 A	1				EXISTING LOAD	0.0 kVA	0.0 kVA					EXISTING LOAD				1 20	A 62	2
63 20 A	1				EXISTING LOAD			0.0 kVA	0.0 kVA	0.010/0	0.010/0	(E) EXHAUST FAN #2 EF-36				1 20	<u>\</u> 64	1
65 20 A	1				EXISTING LOAD	0.0 k\/A	0.0 k\/A			0.0 KVA	0.0 KVA	EXISTING LOAD				1 20	4 66 4 68	<u>)</u> ז
69 20 A	1				EXISTING LOAD	0.0 KV/	0.0 1077	0.0 kVA	1.1 kVA			RECDEPT - FIL ROOM	3/4"	#12	2#12	1 20	A 70	, j
71 20 A	1				EXISTING LOAD					0.0 kVA	0.4 kVA	TTB FLR RACK	3/4"	#12	2#12	1 20	A 72	2
73 20 A	1				EXISTING LOAD	0.0 kVA	0.0 kVA	0.010/0				(E) EXHAUST FAN GAS				1 20	A 74	+
77 20 A	1				EXISTING LOAD			U.U KVA	1.3 KVA	0.0 kVA	1.5 kVA		3/4	#10	3#10 	∠ 30 	1 /0 78	<u>,</u> 3
79 20 A	1				EXISTING LOAD	0.0 kVA	0.0 kVA					SPD				3 60	A 80	)
81 20 A	1				EXISTING LOAD			0.0 kVA	0.0 kVA								82	2
83   20 A	1				EXISTING LOAD	800		1077		0.0 kVA	0.0 kVA						84	ł
						7	5 VA 5 A	91		84		-						
							• • •											
ad Classifica	tion				C	onnected Load	D	emand Fac	tor	Estimat	ed Demand	t	Pan	el Tot	als			
ner						15200 VA		100.00%		15	200 VA							
ceptacle						7740 VA		100.00%		77	'40 VA	Tota	l Conn. Loa	<b>d:</b> 297	740 VA			
hting						3300 VA		125.00%		41	25 VA	Total	Est. Deman	d: 305	565 VA			
scellaneous						3500 VA		100.00%		35	600 VA		Total Con	n.: 83	A			
												Iotal	EST. Deman	<b>a:</b> 85	А			
														1				

![](_page_36_Figure_4.jpeg)

		Volts:	120/208 W	/ve		A.I.C. Ra	ting: 10.000	)					
		Phases: Wires:	3 4			Mains Ra Ra	ting: 400 A ting:						
ND PREP/ AND LOA	ARE BREA	KER FOR N STALL NEW	EW LOAD BREAKEF	AS SHOWN R IN ITS PLA	N IN SCHED ACE.	ULE.							
A	A	E	3		С	Circuit Description	CONDUIT	GND	WIRE	POLES	TRIP	скт	ABR
1.8 kVA	1.8 kVA					BREAKROOM RECEPT	3/4"	#12	2#12	1	20 A	2	R
		0.0 kVA	0.7 kVA			RECEPT - BREAK ROOM	3/4"	#12	2#12	1	20 A	4	R
				0.0 kVA	1.2 kVA	REFRIGERATOR	3/4"	#12	2#12	1	20 A	6	N/G
0.0 kVA	0.9 kVA	0.011/4	0.411/4			RECEPT- CORRIDOR	3/4"	#12	2#12	1	20 A	8	R
		0.0 KVA	0.4 KVA	0.0 k)/A	0.7 1/)//		3/4"	#12	2#12	1	20 A	10	R
0.0 k\/A	$0.7 k V \Delta$			0.0 KVA	0.7 KVA		3/4	#12 #12	2#12	1	20 A	14	R
0.0 KVA	0.7 KVA	0.0 kVA	0.7 kVA			NM RECEPT	3/4"	#12	2#12	1	20 A	16	R
		0.0 1071	0.1 1.111	0.0 kVA	1.3 kVA	DIRECTOR RECEPT	3/4"	#12	2#12	1	20 A	18	R
0.0 kVA	0.2 kVA					EWC	3/4"	#12	2#12	1	20 A	20	N/G
		0.0 kVA	1.1 kVA			RECEPT- CORRIDOR	3/4"	#12	2#12	1	20 A	22	R
				0.0 kVA	0.9 kVA	RECEPT - MEETING ROOM	3/4"	#12	2#12	1	20 A	24	R
0.8 kVA	0.2 kVA	0.010/0	0.513/4			EWC	3/4"	#12	2#12	1	20 A	26	N/G
		0.2 KVA	0.5 KVA	0.7 k)/A	0.0 1/1/0	RECEPT- COR	3/4"	#12	2#12	1	20 A	28	R
1 0 k\/A	0.0 k\/A			0.7 KVA	0.9 KVA	WORKSTATION RECEPT	3/4	#12 #12	2#12	1	20 A	30	R
1.0 KVA	0.3 KVA	0.7 kVA	0.5 kVA			WORKSTATION RECEPT	3/4"	#12	2#12	1	20 A	34	R
				1.2 kVA	0.5 kVA	LIGHTING	3/4"	#12	2#12	1	20 A	36	R
0.5 kVA	0.5 kVA					CORRIDOR LIGHTING	3/4"	#12	2#12	1	20 A	38	R
		1.1 kVA	0.8 kVA			WORKSTATION LIGHTING	3/4"	#12	2#12	1	20 A	40	R
				0.8 kVA	0.8 kVA	VAV	3/4"	#12	2#12	1	20 A	42	R
0.6 kVA	1.0 kVA	0.011/4	0.011/0				3/4"	#12	2#12	1	20 A	44	R
		0.8 KVA	0.0 KVA	0.0 k)/A	0.0 1/1/0					1	20 A	46	
0.0 k\/A	$0.0 k V \Delta$			0.0 KVA	0.0 KVA					1	20 A	40 50	
0.0 1077	0.0 1077	0.0 kVA	0.0 kVA			EXISTING LOAD				1	20 A	52	
				0.0 kVA	0.0 kVA	EXISTING LOAD				1	20 A	54	
0.0 kVA	0.0 kVA					EXISTING LOAD				1	20 A	56	
		0.0 kVA	0.0 kVA			EXISTING LOAD				1	20 A	58	
				0.0 kVA	0.0 kVA	EXISTING LOAD				1	20 A	60	
0.0 kVA	0.0 kVA	0.010/0	0.010/0			EXISTING LOAD				1	20 A	62	
		U.U KVA	0.0 KVA	0.0 k\/A	0.0 k)/A					1	20 A 20 ∆	66	
0.0 kVA	0.0 kVA			0.0 1.07	0.0 KVA	EXISTING LOAD				1	20 A	68	
		0.0 kVA	0.0 kVA			EXISTING LOAD				1	20 A	70	
				0.0 kVA	0.0 kVA	EXISTING LOAD				1	20 A	72	
0.0 kVA	0.0 kVA					EXISTING LOAD				1	20 A	74	
		0.0 kVA	0.0 kVA	0.011/4	0.011/4	(E) UNIT HEATER & EF-10				1	20 A	76	
0.0.10/0	0.0 1/1/4			0.0 KVA	0.0 KVA					1	20 A	/8	
0.0 KVA	0.0 KVA	0.0 k V A	0.0 k\/A							1	20 A	82	
		0.0 KVA	0.0 KVA	0.0 kVA	0.0 kVA	EXISTING LOAD				1	20 A	84	
1084	3 VA	6830	) VA	907	3 VA			I	1			'	1
93	A	57	Ά	78	3 A	-							
	-	51	-		- · -	1							
Load	D	emand Fac	tor	Estimat	ted Demand	1	Par	nel Tot	als				
Ά		100.00%		50	000 VA								
Ά		100.00%		15	500 VA	Tota	I Conn. Loa	<b>id:</b> 267	702 VA				
/A		80.64%		13	160 VA	Total	Est. Deman	<b>d:</b> 245	522 VA				
'A		125.00%		49	993 VA		Total Con	<b>n.:</b> 74	A				

Total Est. Demand: 68 A

![](_page_36_Picture_6.jpeg)

![](_page_36_Figure_7.jpeg)

![](_page_37_Figure_0.jpeg)

![](_page_37_Picture_4.jpeg)

![](_page_37_Figure_5.jpeg)

#### SECTION 087100 - DOOR HARDWARE

#### PART 1 - GENERAL

#### 1.1 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 1 Specification Sections, apply to this Section.

#### 1.2 SUMMARY

- A. This Section includes commercial door hardware for the following:
  - 1. Swinging doors.
  - 2. Sliding doors.
  - 3. Other doors to the extent indicated.
- B. Door hardware includes, but is not necessarily limited to, the following:
  - 1. Mechanical door hardware.
  - 2. Electromechanical door hardware.
  - 3. Automatic operators.
  - 4. Cylinders specified for doors in other sections.
- C. Related Sections:
  - 1. Division 08 Section "Hollow Metal Doors and Frames".
  - 2. Division 08 Section "Flush Wood Doors".
  - 3. Division 08 Section "Stile and Rail Wood Doors".
  - 4. Division 08 Section "Sound Control Hollow Metal Door Assemblies".
  - 5. Division 08 Section "Sound Control Wood Door Assemblies".
  - 6. Division 08 Section "Aluminum-Framed Entrances and Storefronts".
  - 7. Division 08 Section "Automatic Door Operators".
- D. Codes and References: Comply with the version year adopted by the Authority Having Jurisdiction.
  - 1. ANSI A117.1 Accessible and Usable Buildings and Facilities.
  - 2. ICC/IBC International Building Code.
  - 3. NFPA 70 National Electrical Code.
  - 4. NFPA 80 Fire Doors and Windows.
  - 5. NFPA 101 Life Safety Code.
  - 6. NFPA 105 Installation of Smoke Door Assemblies.
  - 7. UL/ULC and CSA C22.2 Standards for Automatic Door Operators Used on Fire and Smoke Barrier Doors and Systems of Doors.
  - 8. State Building Codes, Local Amendments.

- 1. ANSI/BHMA Certified Product Standards A156 Series.
- 2. UL10C Positive Pressure Fire Tests of Door Assemblies.
- 3. ANSI/UL 294 Access Control System Units.
- 4. UL 305 Panic Hardware.
- 5. ANSI/UL 437- Key Locks.

#### 1.3 SUBMITTALS

- A. Product Data: Manufacturer's product data sheets including installation details, material descriptions, dimensions of individual components and profiles, operational descriptions and finishes.
- B. Door Hardware Schedule: Prepared by or under the supervision of supplier, detailing, fabrication and assembly of door hardware, as well as procedures and diagrams. Coordinate the final Door Hardware Schedule with doors, frames, and related work to ensure proper size, thickness, hand, function, and finish of door hardware.
  - 1. Format: Comply with scheduling sequence and vertical format in DHI's "Sequence and Format for the Hardware Schedule."
  - 2. Organization: Organize the Door Hardware Schedule into door hardware sets indicating complete designations of every item required for each door or opening. Organize door hardware sets in same order as in the Door Hardware Sets at the end of Part 3. Submittals that do not follow the same format and order as the Door Hardware Sets will be rejected and subject to resubmission.
  - 3. Content: Include the following information:
    - a. Type, style, function, size, label, hand, and finish of each door hardware item.
    - b. Manufacturer of each item.
    - c. Fastenings and other pertinent information.
    - d. Location of door hardware set, cross-referenced to Drawings, both on floor plans and in door and frame schedule.
    - e. Explanation of abbreviations, symbols, and codes contained in schedule.
    - f. Mounting locations for door hardware.
    - g. Door and frame sizes and materials.
    - h. Warranty information for each product.
  - 4. Submittal Sequence: Submit the final Door Hardware Schedule at earliest possible date, particularly where approval of the Door Hardware Schedule must precede fabrication of other work that is critical in the Project construction schedule. Include Product Data, Samples, Shop Drawings of other work affected by door hardware, and other information essential to the coordinated review of the Door Hardware Schedule.
- C. Shop Drawings: Details of electrified access control hardware indicating the following:

- 1. Wiring Diagrams: Upon receipt of approved schedules, submit detailed system wiring diagrams for power, signaling, monitoring, communication, and control of the access control system electrified hardware. Differentiate between manufacturer-installed and field-installed wiring. Include the following:
  - a. Elevation diagram of each unique access controlled opening showing location and interconnection of major system components with respect to their placement in the respective door openings.
  - b. Complete (risers, point-to-point) access control system block wiring diagrams.
  - c. Wiring instructions for each electronic component scheduled herein.
- 2. Electrical Coordination: Coordinate with related sections the voltages and wiring details required at electrically controlled and operated hardware openings.
- D. Keying Schedule: After a keying meeting with the owner has taken place prepare a separate keying schedule detailing final instructions. Submit the keying schedule in electronic format. Include keying system explanation, door numbers, key set symbols, hardware set numbers and special instructions. Owner must approve submitted keying schedule prior to the ordering of permanent cylinders/cores.
- E. Informational Submittals:
  - 1. Product Test Reports: Indicating compliance with cycle testing requirements, based on evaluation of comprehensive tests performed by manufacturer and witnessed by a qualified independent testing agency.

#### 1.4 CLOSEOUT SUBMITTALS

- A. Operating and Maintenance Manuals: Provide manufacturers operating and maintenance manuals for each item comprising the complete door hardware installation in quantity as required in Division 01, Closeout Procedures.
- B. Project Record Documents: Provide record documentation of as-built door hardware sets in digital format (.pdf, .docx, .xlsx, .csv) and as required in Division 01, Project Record Documents.

#### 1.5 QUALITY ASSURANCE

- A. Hardware Supplier and Hardware Installer must obtain a license with the Louisiana Office of State Fire Marshall in accordance to RS 40:1464 and RS 40:1664.
- B. Manufacturers Qualifications: Engage qualified manufacturers with a minimum 5 years of documented experience in producing hardware and equipment similar to that indicated for this Project and that have a proven record of successful in-service performance.
- C. Certified Products: Where specified, products must maintain a current listing in the Builders Hardware Manufacturers Association (BHMA) Certified Products Directory (CPD).

- D. Installer Qualifications: A minimum 3 years documented experience installing both standard and electrified door hardware similar in material, design, and extent to that indicated for this Project and whose work has resulted in construction with a record of successful in-service performance.
- E. Door Hardware Supplier Qualifications: Experienced commercial door hardware distributors with a minimum 5 years documented experience supplying both mechanical and electromechanical hardware installations comparable in material, design, and extent to that indicated for this Project. Supplier recognized as a factory direct distributor by the manufacturers of the primary materials with a warehousing facility in Project's vicinity.
- F. Source Limitations: Obtain each type and variety of door hardware specified in this section from a single source unless otherwise indicated.
  - 1. Electrified modifications or enhancements made to a source manufacturer's product line by a secondary or third party source will not be accepted.
  - 2. Provide electromechanical door hardware from the same manufacturer as mechanical door hardware, unless otherwise indicated.
- G. Each unit to bear third party permanent label indicating compliance with the referenced testing standards.
- H. Keying Conference: Conduct conference to comply with requirements in Division 01 Section "Project Meetings." Keying conference to incorporate the following criteria into the final keying schedule document:
  - 1. Function of building, purpose of each area and degree of security required.
  - 2. Plans for existing and future key system expansion.
  - 3. Requirements for key control storage and software.
  - 4. Installation of permanent keys, cylinder cores and software.
  - 5. Address and requirements for delivery of keys.
- I. Pre-Submittal Conference: Conduct coordination conference in compliance with requirements in Division 01 Section "Project Meetings" with attendance by representatives of Supplier(s), Installer(s), and Contractor(s) to review proper methods and the procedures for receiving, handling, and installing door hardware.
  - 1. Prior to installation of door hardware, conduct a project specific training meeting to instruct the installing contractors' personnel on the proper installation and adjustment of their respective products. Product training to be attended by installers of door hardware (including electromechanical hardware) for aluminum, hollow metal and wood doors. Training will include the use of installation manuals, hardware schedules, templates and physical product samples as required.
  - 2. Inspect and discuss electrical roughing-in, power supply connections, and other preparatory work performed by other trades.
  - 3. Review sequence of operation narratives for each unique access controlled opening.
  - 4. Review and finalize construction schedule and verify availability of materials.
  - 5. Review the required inspecting, testing, commissioning, and demonstration procedures

J. At completion of installation, provide written documentation that components were applied according to manufacturer's instructions and recommendations and according to approved schedule.

#### 1.6 DELIVERY, STORAGE AND HANDLING

- A. Inventory door hardware on receipt and provide secure lock-up and shelving for door hardware delivered to Project site. Do not store electronic access control hardware, software or accessories at Project site without prior authorization.
- B. Tag each item or package separately with identification related to the final Door Hardware Schedule, and include basic installation instructions with each item or package.
- C. Deliver, as applicable, permanent keys, cylinders, cores, access control credentials, software and related accessories directly to Owner via registered mail or overnight package service. Instructions for delivery to the Owner shall be established at the "Keying Conference".

#### 1.7 COORDINATION

- A. Templates: Obtain and distribute to the parties involved templates for doors, frames, and other work specified to be factory prepared for installing standard and electrified hardware. Check Shop Drawings of other work to confirm that adequate provisions are made for locating and installing hardware to comply with indicated requirements.
- B. Door and Frame Preparation: Doors and corresponding frames are to be prepared, reinforced and pre-wired (if applicable) to receive the installation of the specified electrified, monitoring, signaling and access control system hardware without additional in-field modifications.

#### 1.8 WARRANTY

- A. General Warranty: Reference Division 01, General Requirements. Special warranties specified in this Article shall not deprive Owner of other rights Owner may have under other provisions of the Contract Documents and shall be in addition to, and run concurrent with, other warranties made by Contractor under requirements of the Contract Documents.
- B. Warranty Period: Written warranty, executed by manufacturer(s), agreeing to repair or replace components of standard and electrified door hardware that fails in materials or workmanship within specified warranty period after final acceptance by the Owner. Failures include, but are not limited to, the following:
  - 1. Structural failures including excessive deflection, cracking, or breakage.
  - 2. Faulty operation of the hardware.
  - 3. Deterioration of metals, metal finishes, and other materials beyond normal weathering.
  - 4. Electrical component defects and failures within the systems operation.
- C. Warranty Period: Unless otherwise indicated, warranty shall be one year from date of Substantial Completion.

#### PART 2 - PRODUCTS

#### 2.1 BUTT HINGES

- A. Hinges: ANSI/BHMA A156.1 butt hinges with number of hinge knuckles and other options as specified in the Door Hardware Sets.
  - 1. Quantity: Provide the following hinge quantity:
    - a. Two Hinges: For doors with heights up to 60 inches.
    - b. Three Hinges: For doors with heights 61 to 90 inches.
    - c. Four Hinges: For doors with heights 91 to 120 inches.
    - d. For doors with heights more than 120 inches, provide 4 hinges, plus 1 hinge for every 30 inches of door height greater than 120 inches.
  - 2. Hinge Size: Provide the following, unless otherwise indicated, with hinge widths sized for door thickness and clearances required:
    - a. Widths up to 3'0": 4-1/2" standard or heavy weight as specified.
    - b. Sizes from 3'1" to 4'0": 5" standard or heavy weight as specified.
  - 3. Hinge Weight and Base Material: Unless otherwise indicated, provide the following:
    - a. Exterior Doors: Heavy weight, non-ferrous, ball bearing or oil impregnated bearing hinges unless Hardware Sets indicate standard weight.
    - b. Interior Doors: Standard weight, steel, ball bearing or oil impregnated bearing hinges unless Hardware Sets indicate heavy weight.
  - 4. Hinge Options: Comply with the following:
    - a. Non-removable Pins: With the exception of electric through wire hinges, provide set screw in hinge barrel that, when tightened into a groove in hinge pin, prevents removal of pin while door is closed; for all out-swinging lockable doors.
  - 5. Manufacturers:
    - a. Hager Companies (HA) BB Series, 5-knuckle.
    - b. Ives (IV) 5BB Series, 5-knuckle.
    - c. McKinney (MK) TA/T4A Series, 5-knuckle.

#### 2.2 CONTINUOUS HINGES

- A. Continuous Geared Hinges: ANSI/BHMA A156.26 Grade 1-600 continuous geared hinge. with minimum 0.120-inch thick extruded 6063-T6 aluminum alloy hinge leaves and a minimum overall width of 4 inches. Hinges are non-handed, reversible and fabricated to template screw locations. Factory trim hinges to suit door height and prepare for electrical cut-outs.
  - 1. Manufacturers:.

- a. Hager Companies (HA).
- b. Ives (IV).
- c. Pemko (PE).

#### 2.3 FLOOR CLOSERS AND PIVOTS

- A. Pivots: ANSI/BHMA A156.4, Grade 1; space intermediate pivots equally not less than 25 inches on center apart or not more than 35 inches on center for doors over 121 inches high. Pivot hinges to have oil impregnated bronze bearing in the top pivot and a radial roller and thrust bearing in the bottom pivot with the bottom pivot designed to carry the full weight of the door. Pivots to be UL listed for windstorm where applicable.
  - 1. Manufacturers:
    - a. Architectural Builders Hardware (AH).
    - b. dormakaba (DO).
    - c. Norton Rixson (RF).

#### 2.4 POWER TRANSFER DEVICES

- A. Electrified Quick Connect Continuous Geared Transfer Hinges: Provide electrified transfer continuous geared hinges with a removable service panel cutout accessible without de-mounting door from the frame. Furnish with Molex<sup>TM</sup> standardized plug connectors with sufficient number of concealed wires (up to 12) to accommodate the electrified functions specified in the Door Hardware Sets. Connectors plug directly to through-door wiring harnesses for connection to electric locking devices and power supplies. Wire nut connections are not acceptable.
  - 1. Manufacturers:
    - a. Ives (IV) Connect.
    - b. Pemko (PE) SER-QC (# wires) Option.
- B. Electric Door Wire Harnesses: Provide electric/data transfer wiring harnesses with standardized plug connectors to accommodate up to twelve (12) wires. Connectors plug directly to through-door wiring harnesses for connection to electric locking devices and power supplies. Provide sufficient number and type of concealed wires to accommodate electric function of specified hardware. Provide a connector for through-door electronic locking devices and from hinge to junction box above the opening. Wire nut connections are not acceptable. Determine the length required for each electrified hardware component for the door type, size and construction, minimum of two per electrified opening.
  - 1. Provide one each of the following tools as part of the base bid contract:
    - a. McKinney (MK) Electrical Connecting Kit: QC-R001.
    - b. McKinney (MK) Connector Hand Tool: QC-R003.
  - 2. Manufacturers:
    - a. Hager Companies (HA) Quick Connect.

- b. McKinney (MK) QC-C Series.
- c. Schlage (SC) Connect.

#### 2.5 DOOR OPERATING TRIM

- A. Flush Bolts and Surface Bolts: Provide products conforming to ANSI/BHMA A156.3 and A156.16, Grade 1.
  - 1. Flush bolts to be furnished with top rod of sufficient length to allow bolt retraction device location approximately six feet from the floor.
  - 2. Furnish dust proof strikes for bottom bolts.
  - 3. Surface bolts to be minimum 8" in length and U.L. listed for labeled fire doors and U.L. listed for windstorm components where applicable.
  - 4. Provide related accessories (mounting brackets, strikes, coordinators, etc.) as required for appropriate installation and operation.
  - 5. Manufacturers:
    - a. Burns Manufacturing (BU).
    - b. Rockwood (RO).
    - c. Trimco (TC).
- B. Door Push Plates and Pulls: ANSI/BHMA A156.6 door pushes and pull units of type and design specified in the Hardware Sets. Coordinate and provide proper width and height as required where conflicting hardware dictates.
  - 1. Push/Pull Plates: Minimum .050 inch thick, size as indicated in hardware sets, with beveled edges, secured with exposed screws unless otherwise indicated.
  - 2. Door Pull and Push Bar Design: Size, shape, and material as indicated in the hardware sets. Minimum clearance of 2 1/2-inches from face of door unless otherwise indicated.
  - 3. Offset Pull Design: Size, shape, and material as indicated in the hardware sets. Minimum clearance of 2 1/2-inches from face of door and offset of 90 degrees unless otherwise indicated.
  - 4. Pulls, where applicable, shall be provided with a 10" clearance from the finished floor on the push side to accommodate wheelchair accessibility.
  - 5. Fasteners: Provide manufacturer's designated fastener type as indicated in Hardware Sets. When through-bolt fasteners are in the same location as a push plate, countersink the fasteners flush with the door face allowing the push plate to sit flat against the door.
  - 6. Manufacturers:
    - a. Burns Manufacturing (BU).
    - b. Rockwood (RO).
    - c. Trimco (TC).

#### 2.6 CYLINDERS AND KEYING

- A. General: Cylinder manufacturer to have minimum (10) years experience designing secured master key systems and have on record a published security keying system policy.
  - 1. Manufacturers:

- a. Match Existing, Field Verify.
- B. Cylinder Types: Original manufacturer cylinders able to supply the following cylinder formats and types:
  - 1. Threaded mortise cylinders with rings and cams to suit hardware application.
  - 2. Rim cylinders with back plate, flat-type vertical or horizontal tailpiece, and raised trim ring.
  - 3. Bored or cylindrical lock cylinders with tailpieces as required to suit locks.
  - 4. Tubular deadlocks and other auxiliary locks.
  - 5. Mortise and rim cylinder collars to be solid and recessed to allow the cylinder face to be flush and be free spinning with matching finishes.
  - 6. Keyway: Match Facility Standard.
- C. Keying System: Each type of lock and cylinders to be factory keyed.
  - 1. Supplier shall conduct a "Keying Conference" to define and document keying system instructions and requirements.
  - 2. Furnish factory cut, nickel-silver large bow permanently inscribed with a visual key control number as directed by Owner.
  - 3. Existing System: Field verify and key cylinders to match Owner's existing system.
- D. Key Quantity: Provide the following minimum number of keys:
  - 1. Change Keys per Cylinder: Two (2)
  - 2. Master Keys (per Master Key Level/Group): Five (5).
  - 3. Construction Keys (where required): Ten (10).
- E. Key Registration List (Bitting List):
  - 1. Provide keying transcript list to Owner's representative in the proper format for importing into key control software.
  - 2. Provide transcript list in writing or electronic file as directed by the Owner.

#### 2.7 KEY CONTROL

- A. Key Control Cabinet: Provide a key control system including envelopes, labels, and tags with self-locking key clips, receipt forms, 3-way visible card index, temporary markers, permanent markers, and standard metal cabinet. Key control cabinet shall have expansion capacity of 150% of the number of locks required for the project.
  - 1. Manufacturers:
    - a. Lund Equipment (LU).
    - b. MMF Industries (MM).
    - c. Telkee (TK).

#### 2.8 MORTISE LOCKS AND LATCHING DEVICES

- A. Mortise Locksets, Grade 1 (Heavy Duty): Provide ANSI/BHMA A156.13, Series 1000, Operational Grade 1 Certified Products Directory (CPD) listed mortise locksets. Listed manufacturers shall meet all functions and features as specified herein.
  - 1. Manufacturers:
    - a. Corbin Russwin Hardware (RU) ML2000 Series.
    - b. Sargent Manufacturing (SA) 8200 Series.
    - c. Schlage (SC) L9000 Series.

#### 2.9 LOCK AND LATCH STRIKES

- A. Strikes: Provide manufacturer's standard strike with strike box for each latch or lock bolt, with curved lip extended to protect frame, finished to match door hardware set, unless otherwise indicated, and as follows:
  - 1. Flat-Lip Strikes: For locks with three-piece antifriction latchbolts, as recommended by manufacturer.
  - 2. Extra-Long-Lip Strikes: For locks used on frames with applied wood casing trim.
  - 3. Aluminum-Frame Strike Box: Provide manufacturer's special strike box fabricated for aluminum framing.
  - 4. Double-lipped strikes: For locks at double acting doors. Furnish with retractable stop for rescue hardware applications.
- B. Standards: Comply with the following:
  - 1. Strikes for Mortise Locks and Latches: BHMA A156.13.
  - 2. Strikes for Bored Locks and Latches: BHMA A156.2.
  - 3. Strikes for Auxiliary Deadlocks: BHMA A156.36.
  - 4. Dustproof Strikes: BHMA A156.16.

#### 2.10 CONVENTIONAL EXIT DEVICES

- A. General Requirements: All exit devices specified herein shall meet or exceed the following criteria:
  - 1. Exit devices shall have a five-year warranty.
  - 2. At doors not requiring a fire rating, provide devices complying with NFPA 101 and listed and labeled for "Panic Hardware" according to UL305. Provide proper fasteners as required by manufacturer including sex nuts and bolts at openings specified in the Hardware Sets.
  - 3. Where exit devices are required on fire rated doors, provide devices complying with NFPA 80 and with UL labeling indicating "Fire Exit Hardware". Provide devices with the proper fasteners for installation as tested and listed by UL. Consult manufacturer's catalog and template book for specific requirements.

- 4. Except on fire rated doors, provide exit devices with hex key dogging device to hold the pushbar and latch in a retracted position. Provide optional keyed cylinder dogging on devices where specified in Hardware Sets.
- 5. Devices must fit flat against the door face with no gap that permits unauthorized dogging of the push bar. The addition of filler strips is required in any case where the door light extends behind the device as in a full glass configuration.
- 6. Lever Operating Trim: Where exit devices require lever trim, furnish manufacturer's heavy duty escutcheon trim with threaded studs for thru-bolts.
  - a. Lock Trim Design: As indicated in Hardware Sets, provide finishes and designs to match that of the specified locksets.
  - b. Where function of exit device requires a cylinder, provide a cylinder (Rim or Mortise) as specified in Hardware Sets.
- 7. Vertical Rod Exit Devices: Where surface or concealed vertical rod exit devices are used at interior openings, provide as less bottom rod (LBR) unless otherwise indicated. Provide dust proof strikes where thermal pins are required to project into the floor.
- 8. Narrow Stile Applications: At doors constructed with narrow stiles, or as specified in Hardware Sets, provide devices designed for maximum 2" wide stiles.
- 9. Dummy Push Bar: Nonfunctioning push bar matching functional push bar.
- 10. Rail Sizing: Provide exit device rails factory sized for proper door width application.
- 11. Through Bolt Installation: For exit devices and trim as indicated in Door Hardware Sets.
- B. Conventional Push Rail Exit Devices (Heavy Duty): ANSI/BHMA A156.3, Grade 1 Certified Products Directory (CPD) listed exit devices. Listed manufacturers shall meet all functions and features as specified herein.
  - 1. Electromechanical exit devices shall have the following functions and features:
    - a. Universal Molex plug-in connectors that have standardized color-coded wiring and are field configurable in fail safe or fail secure and operate from 12vdc to 24vdc regulated.
    - b. EcoFlex or equivalent technology that reduces energy consumption up to 92% as certified by GreenCircle.
    - c. Options to be available for request-to-exit or enter signaling, latchbolt and touchbar monitoring.
    - d. Field configurable electrified trim to fail-safe or fail-secure that operates from 12-24VDC.
    - e. Five-year limited warranty for electromechanical features.
  - 2. Manufacturers:
    - a. Corbin Russwin Hardware (RU) ED4000 / ED5000 Series.
    - b. Sargent Manufacturing (SA) 80 Series.
    - c. Von Duprin (VD) 35A/98 XP Series.

#### 2.11 SURFACE DOOR CLOSERS

A. All door closers specified herein shall meet or exceed the following criteria:

- 1. General: Door closers to be from one manufacturer, matching in design and style, with the same type door preparations and templates regardless of application or spring size. Closers to be non-handed with full sized covers.
- 2. Standards: Closers to comply with UL-10C for Positive Pressure Fire Test and be U.L. listed for use of fire rated doors.
- 3. Size of Units: Comply with manufacturer's written recommendations for sizing of door closers depending on size of door, exposure to weather, and anticipated frequency of use. Where closers are indicated for doors required to be accessible to the Americans with Disabilities Act, provide units complying with ANSI ICC/A117.1.
- 4. Closer Arms: Provide heavy duty, forged steel closer arms unless otherwise indicated in Hardware Sets.
- 5. Closers shall not be installed on exterior or corridor side of doors; where possible install closers on door for optimum aesthetics.
- 6. Closer Accessories: Provide door closer accessories including custom templates, special mounting brackets, spacers and drop plates as required for proper installation. Provide through-bolt and security type fasteners as specified in the hardware sets.
- B. Door Closers, Surface Mounted (Heavy Duty): ANSI/BHMA A156.4, Grade 1 Certified Products Directory (CPD) listed surface mounted, heavy duty door closers with complete spring power adjustment, sizes 1 thru 6; and fully operational adjustable according to door size, frequency of use, and opening force. Closers to be rack and pinion type, one piece cast iron or aluminum alloy body construction, with adjustable backcheck and separate non-critical valves for closing sweep and latch speed control. Provide non-handed units standard.
  - 1. Heavy duty surface mounted door closers shall have a 30-year warranty.
  - 2. Manufacturers:
    - a. Corbin Russwin Hardware (RU) DC6000 Series.
    - b. LCN Closers (LC) 4040 Series.
    - c. Sargent Manufacturing (SA) 351 Series.

#### 2.12 ELECTROHYDRAULIC DOOR OPERATORS

- A. Electrohydraulic Door Operators (High Traffic): Provide ANSI/BHMA A156.19 Certified Products Directory (CPD) listed low energy operators that meet ANSI/BHMA A156.4 requirements and are UL listed for use on fire rated doors and UL10C certified that comply with requirements for the Americans with Disabilities Act (ADA). Operators shall be verified by GreenCircle to offer energy savings of 19% when compared to similar products to accommodate openings up 250 pounds and 48" wide.
  - 1. Provide operators with features as follows:
    - a. Non-handed with push and pull side mounting.
    - b. Operates as mechanical surface closer during close cycles, when door is opened manually or if power is off.
    - c. Activation by push button, hands-free or radio frequency devices.
    - d. On board electronics to collect usage and cycle count data to facilitate preventative maintenance/diagnostics.

- e. Two-year limited warranty.
- f. Wi-Fi interface where the operator is a secure, password protected WiFi hot spot with no connection to building's IT required.
  - 1) Simple setup with no app required.
  - 2) View status and make adjustments without removing the cover.
  - 3) Built-in logic to support single use restroom applications with no external relay boards, logic modules, position switches required.
- g. Mounting backplate to simplify and speed up installation.
- 2. Operators shall have the following functionality:
  - a. Adjustable Hold Open: Amount of time a door will stay in the full open position after an activation.
  - b. Blow Open for Smoke Ventilation: Door opens when signal is received from alarm system allowing air or smoke to flow through opening. Door will stay open until signal from alarm system is stopped.
  - c. Infinite Hold Open: Door will hold open at set position until power is turned off.
  - d. Obstruction Detection: Door closes if it hits an obstruction while opening; door will reverse to open position if it hits an obstruction while closing. Door will stop once it hits an obstruction and will rest against the obstruction until removed.
  - e. Open Delay: Delays operator opening for locking hardware.
  - f. Overload Safety Shut-Off: After two minutes of receiving a door activation signal, inverter times out and door closes to prevent motor/inverter damage.
  - g. Presence Detector Input: Input for external sensor to detect presence at door open or close position only.
  - h. Push & Go: As the door is manually opened, the operator "senses" movement and opens door to the full-open position.
  - i. Selector Mode Switch: Off disables the signal inputs unless Blow Open is activated, on activates the signal inputs, hold open activates the unit (unless Blow Closed is activated) to the hold open position.
  - j. Vestibule Delay: When the wall switch is pressed, first door in vestibule will open. Second door will open once vestibule door delay has expired. Delay is adjustable.
- 3. Manufacturers:
  - a. LCN (LC) 4630/4640 Series.
  - b. Norton Rixson (NO) 6000 Series.

#### 2.13 SURFACE MOUNTED CLOSER HOLDERS

- A. Electromagnetic Door Holders: ANSI A156.15 electromagnetic door holder/releases with a minimum 20 to 40 pounds holding power and single coil construction able to accommodate.12VDC, 24VAC, 24VDC and 120VAC. Coils to be independently wound, employing an integral fuse and armatures to include a positive release button.
  - 1. Manufacturers:
    - a. LCN Door Closers (LC) SEM7800 Series.
    - b. Norton Rixson (RF) 980/990 Series.

c. Sargent Manufacturing (SA) - 1560 Series.

#### 2.14 ARCHITECTURAL TRIM

- A. Door Protective Trim
  - 1. General: Door protective trim units to be of type and design as specified below or in the Hardware Sets.
  - 2. Size: Fabricate protection plates (kick, armor, or mop) not more than 2" less than door width (LDW) on stop side of single doors and 1" LDW on stop side of pairs of doors, and not more than 1" less than door width on pull side. Coordinate and provide proper width and height as required where conflicting hardware dictates. Height to be as specified in the Hardware Sets.
  - 3. Where plates are applied to fire rated doors with the top of the plate more than 16" above the bottom of the door, provide plates complying with NFPA 80. Consult manufacturer's catalog and template book for specific requirements for size and applications.
  - 4. Protection Plates: ANSI/BHMA A156.6 protection plates (kick, armor, or mop), fabricated from the following:
    - a. Stainless Steel: 300 grade, 050-inch thick.
  - 5. Options and fasteners: Provide manufacturer's designated fastener type as specified in the Hardware Sets. Provide countersunk screw holes.
  - 6. Manufacturers:
    - a. Burns Manufacturing (BU).
    - b. Rockwood (RO).
    - c. Trimco (TC).

#### 2.15 DOOR STOPS AND HOLDERS

- A. General: Door stops and holders to be of type and design as specified below or in the Hardware Sets.
- B. Door Stops and Bumpers: ANSI/BHMA A156.16, Grade 1 door stops and wall bumpers. Provide wall bumpers, either convex or concave types with anchorage as indicated, unless floor or other types of door stops are specified in Hardware Sets. Do not mount floor stops where they will impede traffic. Where floor or wall bumpers are not appropriate, provide overhead type stops and holders.
  - 1. Manufacturers:
    - a. Burns Manufacturing (BU).
    - b. Rockwood (RO).
    - c. Trimco (TC).

#### 2.16 ARCHITECTURAL SEALS

- A. General: Thresholds, weatherstripping, and gasket seals to be of type and design as specified below or in the Hardware Sets. Provide continuous weatherstrip gasketing on exterior doors and provide smoke, light, or sound gasketing on interior doors where indicated. At exterior applications provide non-corrosive fasteners and elsewhere where indicated.
- B. Smoke Labeled Gasketing: Assemblies complying with NFPA 105 that are listed and labeled by a testing and inspecting agency acceptable to authorities having jurisdiction, for smoke control ratings indicated, based on testing according to UL 1784.
  - 1. Provide smoke labeled perimeter gasketing at all smoke labeled openings.
- C. Fire Labeled Gasketing: Assemblies complying with NFPA 80 that are listed and labeled by a testing and inspecting agency acceptable to authorities having jurisdiction, for fire ratings indicated, based on testing according to UL-10C.
  - 1. Provide intumescent seals as indicated to meet UL10C Standard for Positive Pressure Fire Tests of Door Assemblies, and NFPA 252, Standard Methods of Fire Tests of Door Assemblies.
- D. Sound-Rated Gasketing: Assemblies that are listed and labeled by a testing and inspecting agency, for sound ratings indicated.
- E. Replaceable Seal Strips: Provide only those units where resilient or flexible seal strips are easily replaceable and readily available from stocks maintained by manufacturer.
- F. Manufacturers:
  - 1. National Guard Products (NG).
  - 2. Pemko (PE).
  - 3. Reese Enterprises, Inc. (RE).

#### 2.17 ELECTRONIC ACCESSORIES

- A. Door Position Switches: Door position magnetic reed contact switches specifically designed for use in commercial door applications. On recessed models the contact and magnetic housing snap-lock into a 1" diameter hole. Surface mounted models include wide gap distance design complete with armored flex cabling. Provide SPDT, N/O switches with optional Rare Earth Magnet installation on steel doors with flush top channels.
  - 1. Manufacturers:
    - a. Security Door Controls (SD) DPS Series.
    - b. Securitron (SU) DPS Series.
- B. Switching Power Supplies: Switching Power Supplies: Provide the least number of power supplies at the appropriate amperage level sufficient to exceed the required total draw for the specified electrified hardware and access control equipment.

- 1. Power supplies shall meet all functions and features as specified herein.
  - a. UL listed dual voltage 12 or 24 VDC field selectable continuous output.
  - b. Tolerates brownout or overvoltage input  $\pm$  15% of nominal voltage.
  - c. Thermal shutdown protection with auto restart.
  - d. Circuit breaker protection against overcurrent and reverse battery faults.
  - e. Integrated battery charging circuit to prevent overvoltage on locking devices.
  - f. Available with a single relay fire trigger or individually triggered relayed outputs.
  - g. Monitoring options as specified.
- 2. Manufacturers:
  - a. Altronix (AS) Maximal 3.
  - b. Securitron (SU) AQD Series.

#### 2.18 FABRICATION

A. Fasteners: Provide door hardware manufactured to comply with published templates generally prepared for machine, wood, and sheet metal screws. Provide screws according to manufacturers recognized installation standards for application intended.

#### 2.19 FINISHES

- A. Standard: Designations used in the Hardware Sets and elsewhere indicate hardware finishes complying with ANSI/BHMA A156.18, including coordination with traditional U.S. finishes indicated by certain manufacturers for their products.
- B. Provide quality of finish, including thickness of plating or coating (if any), composition, hardness, and other qualities complying with manufacturer's standards, but in no case less than specified by referenced standards for the applicable units of hardware
- C. Protect mechanical finishes on exposed surfaces from damage by applying a strippable, temporary protective covering before shipping.

#### PART 3 - EXECUTION

#### 3.1 EXAMINATION

- A. Examine scheduled openings, with Installer present, for compliance with requirements for installation tolerances, labeled fire door assembly construction, wall and floor construction, and other conditions affecting performance.
- B. Notify architect of any discrepancies or conflicts between the door schedule, door types, drawings and scheduled hardware. Proceed only after such discrepancies or conflicts have been resolved in writing.

#### 3.2 PREPARATION

- A. Hollow Metal Doors and Frames: Comply with ANSI/DHI A115 series.
- B. Wood Doors: Comply with ANSI/DHI A115-W series.

#### 3.3 INSTALLATION

- A. Install each item of mechanical and electromechanical hardware and access control equipment to comply with manufacturer's written instructions and according to specifications.
  - 1. Installers are to be trained and certified by the manufacturer on the proper installation and adjustment of fire, life safety, and security products including: hanging devices; locking devices; closing devices; and seals.
- B. Mounting Heights: Mount door hardware units at heights indicated in following applicable publications, unless specifically indicated or required to comply with governing regulations:
  - 1. Standard Steel Doors and Frames: DHI's "Recommended Locations for Architectural Hardware for Standard Steel Doors and Frames."
  - 2. DHI TDH-007-20: Installation Guide for Doors and Hardware.
  - 3. Where indicated to comply with accessibility requirements, comply with ANSI A117.1 "Accessibility Guidelines for Buildings and Facilities."
  - 4. Provide blocking in drywall partitions where wall stops or other wall mounted hardware is located.
- C. Retrofitting: Install door hardware to comply with manufacturer's published templates and written instructions. Where cutting and fitting are required to install door hardware onto or into surfaces that are later to be painted or finished in another way, coordinate removal, storage, and reinstallation of surface protective trim units with finishing work specified in Division 9 Sections. Do not install surface-mounted items until finishes have been completed on substrates involved.
- D. Push Plates and Door Pulls: When through-bolt fasteners are in the same location as a push plate, countersink the fasteners flush with the door face allowing the push plate to sit flat against the door.
- E. Thresholds: Set thresholds for exterior and acoustical doors in full bed of sealant complying with requirements specified in Division 7 Section "Joint Sealants."
- F. Storage: Provide a secure lock up for hardware delivered to the project but not yet installed. Control the handling and installation of hardware items so that the completion of the work will not be delayed by hardware losses before and after installation.

#### 3.4 FIELD QUALITY CONTROL

A. Field Inspection (Punch Report): Reference Division 01 Sections "Closeout Procedures". Produce project punch report for each installed door opening indicating compliance with approved submittals and verification hardware is properly installed, operating and adjusted. Include list of items to be completed and corrected, indicating the reasons or deficiencies causing the Work to be incomplete or rejected.

1. Organization of List: Include separate Door Opening and Deficiencies and Corrective Action Lists organized by Mark, Opening Remarks and Comments, and related Opening Images and Video Recordings.

#### 3.5 ADJUSTING

A. Initial Adjustment: Adjust and check each operating item of door hardware and each door to ensure proper operation or function of every unit. Replace units that cannot be adjusted to operate as intended. Adjust door control devices to compensate for final operation of heating and ventilating equipment and to comply with referenced accessibility requirements.

#### 3.6 CLEANING AND PROTECTION

- A. Protect all hardware stored on construction site in a covered and dry place. Protect exposed hardware installed on doors during the construction phase. Install any and all hardware at the latest possible time frame.
- B. Clean adjacent surfaces soiled by door hardware installation.
- C. Clean operating items as necessary to restore proper finish. Provide final protection and maintain conditions that ensure door hardware is without damage or deterioration at time of owner occupancy.

#### 3.7 DEMONSTRATION

A. Instruct Owner's maintenance personnel to adjust, operate, and maintain mechanical and electromechanical door hardware.

#### 3.8 DOOR HARDWARE SETS

- A. The hardware sets represent the design intent and direction of the owner and architect. They are a guideline only and should not be considered a detailed hardware schedule. Discrepancies, conflicting hardware and missing items should be brought to the attention of the architect with corrections made prior to the bidding process. Omitted items not included in a hardware set should be scheduled with the appropriate additional hardware required for proper application and functionality.
  - 1. Quantities listed are for each pair of doors, or for each single door.
  - 2. The supplier is responsible for handing and sizing all products.
  - 3. Where multiple options for a piece of hardware are given in a single line item, the supplier shall provide the appropriate application for the opening.
  - 4. At existing openings with new hardware the supplier shall field inspect existing conditions prior to the submittal stage to verify the specified hardware will work as required. Provide alternate solutions and proposals as needed.

B. Manufacturer's Abbreviations:

MK - McKinney
 PE - Pemko
 RF - Rixson
 RO - Rockwood
 SA - SARGENT
 SU - Securitron
 NO - Norton
 OT - Other

#### Hardware Sets based on plans dated 09/26/2024

# \*At existing doors/frames, all conditions must be field verified and hardware modified as required prior to purchase.

#### <u>Set: 1.0</u>

Doors: 512 Description: Alum Sgl Access Control Locking - Closer - RX/DPS

1	Continuous Hinge	_FMSLF-HD1 SER		PE
1	Fail Secure Lock	LC RX 8271 LE1L	US26D	SA
1	Cylinder	Match Existing	US32D	SA
1	Surface Closer	TB 351 UO / PS as required	EN	SA
2	Drop Plate	351D as required	EN	SA
2	Kit	581-x	EN	SA
1	Door Stop	406 / 441H (as req'd per app)	US32D	RO
1	Gasketing	By frame manufacturer		00
2	ElectroLynx Harness	QC-C1500P		MK
2	ElectroLynx Harness	QC-CxxxP		MK
1	Card Reader	By Security Contractor		OT
2	Position Switch	DPS-GY		SU
1	Power Supply	AQDx size as req		SU

Notes: Confirm hardware compatibility with aluminum door manufacturer. Wide stile required. Doors are normally closed and secure. Presentation of valid credential will allow entry by pull. Upon loss of power, doors will remain secure. Free egress at all times.

### Set: 2.0

Doors: 442, 467A, 467B Description: Alum Sgl Push/Pull - Closer - AO

1	Continuous Hinge	_FM_	SLF-HD1		PE
1	Push Bar & Pull	BF157	'47	US32D	RO

1 Automatic Opener	6000 Series x drop plate as req	689	NO
1 Door Stop	406 / 441H (as req'd per app)	US32D	RO
1 Gasketing	By frame manufacturer		00
2 Door Switch	501		NO

Notes: Doors are normally closed. Pressing actuator will initiate auto operator sequence.

#### <u>Set: 3.0</u>

Doors: 454, 510 Description: Alum Sgl Push/Pull - Closer

ontinuous Hinge	_FMSLF-HD1		PE
sh Bar & Pull	BF15747	US32D	RO
rface Closer	TB 351 UO / PS as required	EN	SA
op Plate	351D as required	EN	SA
t	581-x	EN	SA
oor Stop	406 / 441H (as req'd per app)	US32D	RO
asketing	By frame manufacturer		00
	ontinuous Hinge Ish Bar & Pull Irface Closer Top Plate t bor Stop Asketing	ontinuous HingeFM_SLF-HD1Ish Bar & PullBF15747Inface CloserTB 351 UO / PS as requiredrop Plate351D as requiredt581-xbor Stop406 / 441H (as req'd per app)asketingBy frame manufacturer	ontinuous HingeFM_SLF-HD1ush Bar & PullBF15747US32Durface CloserTB 351 UO / PS as requiredENrop Plate351D as requiredENt581-xENbor Stop406 / 441H (as req'd per app)US32DasketingBy frame manufacturerUS32D

Notes:

### <u>Set: 4.0</u>

Doors: 470, 474, 477, 480, 484, 487 Description: Int DE Pair - SVR x SVR EO - Closer - EMHO

2	Continuous Hinge	_FM_HD1		PE
2	Surface Vert Rod Exit, Exit Only	NB8710 EO	US32D	SA
2	Surface Closer	TB 351 UO / PS as required	EN	SA
2	Kick Plate	K1050 10" BEV CSK	US26D	RO
2	Electromagnetic Holder	990 Series	689	RF
1	Astragal Set (2)	18041CNB		PE
1	Gasketing	S88BL (Head and Jambs)		PE

Notes: Doors are magnetically held open and must be tied in to fire control. Upon loss of power or signal from fire control doors will close and latch. Power and wiring is by others.

#### Set: 4.1

Doors: 514, 518 Description: Int DE Pair - SVR x SVR EO - MagCloser - EMHO

2	Continuous Hinge	FMHD1 SER		PE
1	Magnetic Lock	DEM680E	630	SU
2	Surface Vert Rod Exit, Exit Only	55 NB8710 EO	US32D	SA
2	Surface Closer	TB 351 UO / PS as required	EN	SA
2	Kick Plate	K1050 10" BEV CSK	US26D	RO
1	Astragal Set (2)	18041CNB		PE

1	Gasketing	S88BL (Head and Jambs)	PE
2	ElectroLynx Harness	QC-C1500P	MK
2	ElectroLynx Harness	QC-CxxxP	MK
1	Card Reader	By Security Contractor	OT
2	Position Switch	DPS-M/W-BK (as req'd per app)	SU
1	Power Supply	AQDx size as req	SU

Notes: Door normally closed and locked with a delayed egress mag lock. Authorized egress by valid card at the card reader bypasses the delayed egress for immediate exit. Emergency egress by depressing the exit device rail initiates an irreversible alarm and 15 second delay. After 15 seconds the device will release for egress. Authorized ingress will retract latches and allow entry by pull. Must be tied into an approved fire alarm system. Activation of fire alarm or signal from fire command shunts power to the device for immediate free egress without alarm.

Locking is from non-secure side only.

#### <u>Set: 5.0</u>

Doors: 407A, 407B, 408, 409, 411, 422, 423, 424, 425, 429, 436A, 436B, 437, 448A, 477C, 509 Description: Interior Sgl - Wall Reader - EL Lock - Closer

Hinge, Full Mortise	TA2714 QC*	US26D	MK
Hinge, Full Mortise	TA2714	US26D	МК
Fail Secure Lock	LC RX 8271 LE1L	US26D	SA
Cylinder	Match Existing	US32D	SA
Surface Closer	TB 351 UO / PS as required	EN	SA
Kick Plate	K1050 10" BEV CSK	US26D	RO
Door Stop	406 / 441H (as req'd per app)	US32D	RO
Gasketing	S88BL (Head and Jambs)		PE
ElectroLynx Harness	QC-C1500P		MK
ElectroLynx Harness	QC-CxxxP		МК
Card Reader	By Security Contractor		OT
Position Switch	DPS-GY		SU
Power Supply	AQDx size as req		SU
	Hinge, Full Mortise Hinge, Full Mortise Fail Secure Lock Cylinder Surface Closer Kick Plate Door Stop Gasketing ElectroLynx Harness ElectroLynx Harness Card Reader Position Switch Power Supply	Hinge, Full MortiseTA2714 QC*Hinge, Full MortiseTA2714Fail Secure LockLC RX 8271 LE1LCylinderMatch ExistingSurface CloserTB 351 UO / PS as requiredKick PlateK1050 10" BEV CSKDoor Stop406 / 441H (as req'd per app)GasketingS88BL (Head and Jambs)ElectroLynx HarnessQC-C1500PElectroLynx HarnessQC-CxxxPCard ReaderBy Security ContractorPosition SwitchDPS-GYPower SupplyAQDx size as req	Hinge, Full MortiseTA2714 QC*US26DHinge, Full MortiseTA2714US26DFail Secure LockLC RX 8271 LE1LUS26DCylinderMatch ExistingUS32DSurface CloserTB 351 UO / PS as requiredENKick PlateK1050 10" BEV CSKUS26DDoor Stop406 / 441H (as req'd per app)US32DGasketingS88BL (Head and Jambs)ElectroLynx HarnessQC-C1500PElectroLynx HarnessQC-CxxxPCard ReaderBy Security ContractorPosition SwitchDPS-GYAQDx size as reqImage: Size as req

Notes: Door is normally closed and secure. Presentation of valid credential allows entry by trim. Upon loss of power, door will remain secure. Free egress at all times.

#### <u>Set: 6.0</u>

Doors: 405, 492 Description: Interior Sgl - Storeroom - Closer - Gasket

3	Hinge, Full Mortise	TA2714	US26D	MK
1	Storeroom/Closet Lock	LC 8204 LE1L	US26D	SA
1	Cylinder	Match Existing	US32D	SA
1	Surface Closer	TB 351 UO / PS as required	EN	SA
1	Kick Plate	K1050 10" BEV CSK	US26D	RO
1	Door Stop	406 / 441H (as req'd per app)	US32D	RO
1	Gasketing	S88BL (Head and Jambs)		PE

#### <u>Set: 7.0</u>

Doors: 435, 460, 511 Description: Interior Sgl - Storeroom - Closer

3	Hinge, Full Mortise	TA2714	US26D	MK
1	Storeroom/Closet Lock	LC 8204 LE1L	US26D	SA
1	Cylinder	Match Existing	US32D	SA
1	Surface Closer	TB 351 UO / PS as required	EN	SA
1	Kick Plate	K1050 10" BEV CSK	US26D	RO
1	Door Stop	406 / 441H (as req'd per app)	US32D	RO
3	Silencer	608 / 609		RO

#### Set: 8.0

Doors: 483, 503, 504, 506, 507 Description: Interior Sgl - Office - Closer

3	Hinge, Full Mortise	TA2714	US26D	MK
1	Office/Entry Lock	LC 8205 LE1L	US26D	SA
1	Cylinder	Match Existing	US32D	SA
1	Surface Closer	TB 351 UO / PS as required	EN	SA
1	Kick Plate	K1050 10" BEV CSK	US26D	RO
1	Door Stop	406 / 441H (as req'd per app)	US32D	RO
3	Silencer	608 / 609		RO

### Set: 9.0

Doors: 440, 443A, 445A, 446A, 447A, 456, 457 Description: Interior Sgl - Classroom Lock - Closer - W/F Stop

3	Hinge, Full Mortise	TA2714	US26D	MK
1	Classroom Lock	LC 8237 LE1L	US26D	SA
1	Cylinder	Match Existing	US32D	SA
1	Surface Closer	TB 351 UO / PS as required	EN	SA
1	Kick Plate	K1050 10" BEV CSK	US26D	RO
1	Door Stop	406 / 441H (as req'd per app)	US32D	RO
1	Gasketing	S88BL (Head and Jambs)		PE

### Set: 10.0

Doors: 430, 431, 433, 434 Description: Interior Classroom

3	Hinge, Full Mortise	TA2714	US26D	ΜК
1	Classroom Lock	LC 8237 LE1L	US26D	SA
1	Cylinder	Match Existing	US32D	SA
1	Door Stop	406 / 441H (as req'd per app)	US32D	RO
3	Silencer	608 / 609		RO

<u>Set: 11.0</u> Doors: 413A, 415A, 416A, 417A, 418A, 513

#### Description: Int Sgl - Classroom Closer

3	Hinge, Full Mortise	TA2714	US26D	MK
1	Classroom Lock	LC 8237 LE1L	US26D	SA
1	Cylinder	Match Existing	US32D	SA
1	Surface Closer	TB 351 UO / PS as required	EN	SA
1	Kick Plate	K1050 10" BEV CSK	US26D	RO
1	Door Stop	406 / 441H (as req'd per app)	US32D	RO
3	Silencer	608 / 609		RO

## <u>Set: 12.0</u> Doors: 491

Description: Int Sgl - Classroom Closer - Lead

1	Pivot Set	L147	626	RF
1	Intermediate Pivot	ML19	626	RF
1	Classroom Lock	LC 74 8237 LE1L	US26D	SA
1	Cylinder	Match Existing	US32D	SA
1	Surface Closer	TB 351 UO / PS as required	EN	SA
1	Kick Plate	K1050 10" BEV CSK	US26D	RO
1	Door Stop	406 / 441H (as req'd per app)	US32D	RO
3	Silencer	608 / 609		RO

### <u>Set: 12.1</u>

Doors: 482 Description: Sgl - Lock w/ deadbolt - Closer - W/F Stop

3	Hinge, Full Mortise	TA2714	US26D	MK
1	Dormitory/Exit Lock	LC 8225 LNL	US26D	SA
1	Cylinder	Match Existing	US32D	SA
1	Surface Closer	TB 351 UO / PS as required	EN	SA
1	Kick Plate	K1050 10" BEV CSK	US26D	RO
1	Door Stop	406 / 441H (as req'd per app)	US32D	RO
1	Gasketing	S88BL (Head and Jambs)		PE

Notes: At existing doors and frames, verify all existing conditions and modify hardware as required prior to purchase.

### <u>Set: 13.0</u>

Doors: 489 Description: Int Sgl - Privacy Closer - Lead

1	Pivot Set	L147	626	RF
1	Intermediate Pivot	ML19	626	RF
1	Privacy Lock	74 8265 LL	US26D	SA
1	Surface Closer	TB 351 UO / PS as required	EN	SA
1	Kick Plate	K1050 10" BEV CSK	US26D	RO
1	Door Stop	406 / 441H (as req'd per app)	US32D	RO
3	Silencer	608 / 609		RO

### Set: 14.0

Doors: 404 Description: Interior Sgl - Classroom Exit- Closer/ Stop

3	Hinge (heavy weight)	T4A3786	US26D	MK
1	Rim Exit Device, Classroom	LC 8813 ETL	US32D	SA
1	Cylinder	Match Existing	US32D	SA
1	Surface Closer	TB 351 PS	EN	SA
1	Kick Plate	K1050 10" BEV CSK	US26D	RO
1	Gasketing	S88BL (Head and Jambs)		PE

Notes: Verify existing hinge type.

#### Set: 15.0

Doors: 412B, 413, 415B, 416B, 417B, 418B, 432, 441, 443B, 445B, 446B, 447B, 448B, 456A, 493 Description: Interior Toilet - Privacy - Closer - W/F stop

3	Hinge, Full Mortise	TA2714	US26D	MK
1	Privacy Lock	V20 8265 VN1L	US26D	SA
1	Surface Closer	TB 351 UO / PS as required	EN	SA
1	Kick Plate	K1050 10" BEV CSK	US26D	RO
1	Mop Plate	K1050 4" BEV CSK	US32D	RO
1	Door Stop	406 / 441H (as req'd per app)	US32D	RO
1	Gasketing	S88BL (Head and Jambs)		PE

#### Set: 16.0

Doors: E403A, E403B, E403C, E404, E452, E453, E455, E459B, E459C, E459D, E501 Description: Existing - Field verify

1	Cylinder	Match Existing	US32D	SA
1	All hardware	Existing to remain		OT

#### Set: 16.1

Doors: E478N Description: Existing - Field verify

1 All hardware	Existing to remain	OT
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Notes: Field verify to determine electrical requirements.

#### Set: 17.0

Doors: 478, 509A, 509B, 509C, E414A, E428, E449, E474B, E478F, E478H, E478K, E502 Description: Existing Sgl - Storeroom - Closer - KP

3	Hinge, Full Mortise	TA2714	US26D	MK
1	Storeroom/Closet Lock	LC 8204 LNL	US26D	SA
1	Cylinder	Match Existing	US32D	SA
1	Surface Closer	TB 351 UO / PS as required	EN	SA

1 Kick Plate	K1050 10" BEV CSK	US26D	RO
1 Door Stop	406 / 441H (as req'd per app)	US32D	RO
3 Silencer	608 / 609		RO

Notes: At existing doors and frames, verify all existing conditions and modify hardware as required prior to purchase.

### Set: 18.0

Doors: E426, E427, E444 Description: Existing Sgl - Storeroom - KP

3	Hinge, Full Mortise	TA2714	US26D	MK
1	Storeroom/Closet Lock	LC 8204 LNL	US26D	SA
1	Cylinder	Match Existing	US32D	SA
1	Kick Plate	K1050 10" BEV CSK	US26D	RO
1	Door Stop	406 / 441H (as req'd per app)	US32D	RO
3	Silencer	608 / 609		RO

Notes: At existing doors and frames, verify all existing conditions and modify hardware as required prior to purchase.

#### Set: 19.0

Doors: E400, E414B, E436A, E436B, E481C, E481F, E482H Description: Existing Sgl - Storeroom

3	Hinge, Full Mortise	TA2714	US26D	MK
1	Storeroom/Closet Lock	LC 8204 LNL	US26D	SA
1	Cylinder	Match Existing	US32D	SA
1	Door Stop	406 / 441H (as req'd per app)	US32D	RO
3	Silencer	608 / 609		RO

Notes: At existing doors and frames, verify all existing conditions and modify hardware as required prior to purchase. Provide overhead stop as required.

### Set: 20.0

Doors: E439, E481B, E481D, E481E, E482C, E482D, E482E, E482F, E482G Description: Existing Pr - Storeroom

6	Hinge, Full Mortise	TA2714	US26D	MK
1	Flush Bolt	555 - 557 12" / 72" AFF	US26D	RO
1	Dust Proof Strike	570	US26D	RO
1	Storeroom/Closet Lock	LC 8204 LNL	US26D	SA
1	Cylinder	Match Existing	US32D	SA
2	Door Stop	406 / 441H (as req'd per app)	US32D	RO
3	Silencer	608 / 609		RO

Notes: At existing doors and frames, verify all existing conditions and modify hardware as required prior to purchase. Provide overhead stop as required.

#### Set: 21.0

Doors: E477B Description: Existing Pr - Storeroom - KP

6	Hinge, Full Mortise	TA2714	US26D	MK
1	Flush Bolt	555 - 557 12" / 72" AFF	US26D	RO
1	Dust Proof Strike	570	US26D	RO
1	Storeroom/Closet Lock	LC 8204 LNL	US26D	SA
1	Cylinder	Match Existing	US32D	SA
2	Kick Plate	K1050 10" BEV CSK	US26D	RO
2	Door Stop	406 / 441H (as req'd per app)	US32D	RO
3	Silencer	608 / 609		RO

Notes: At existing doors and frames, verify all existing conditions and modify hardware as required prior to purchase. Provide overhead stop as required.

#### Set: 22.0

Description: Not Used

Notes:

#### Set: 23.0

Doors: E437B, E459A, E466C, E478G, E478J Description: Existing Sgl - Classroom Lock - Closer - W/F Stop

3	Hinge, Full Mortise	TA2714	US26D	MK
1	Classroom Lock	LC 8237 LNL	US26D	SA
1	Cylinder	Match Existing	US32D	SA
1	Surface Closer	TB 351 UO / PS as required	EN	SA
1	Kick Plate	K1050 10" BEV CSK	US26D	RO
1	Door Stop	406 / 441H (as req'd per app)	US32D	RO
1	Gasketing	S88BL (Head and Jambs)		PE

Notes: At existing doors and frames, verify all existing conditions and modify hardware as required prior to purchase.

#### Set: 24.0

Doors: E478B Description: Existing Sgl - Lock w/ deadbolt - Closer - W/F Stop

3	Hinge, Full Mortise	TA2714	US26D	MK
1	Dormitory/Exit Lock	LC 8225 LNL	US26D	SA

1	Cylinder	Match Existing	US32D	SA
1	Surface Closer	TB 351 UO / PS as required	EN	SA
1	Kick Plate	K1050 10" BEV CSK	US26D	RO
1	Door Stop	406 / 441H (as req'd per app)	US32D	RO
1	Gasketing	S88BL (Head and Jambs)		PE

Notes: At existing doors and frames, verify all existing conditions and modify hardware as required prior to purchase.

### <u>Set: 25.0</u>

Doors: E419, E437A Description: Existing Sgl - Classroom Lock - Closer - Swing Clear hinges

3	Hinge, Swing Clear, Hvy Wt	T4A4795	US26D	MK
1	Classroom Lock	LC 8237 LNL	US26D	SA
1	Cylinder	Match Existing	US32D	SA
1	Surface Closer	TB 351 UO / PS as required	EN	SA
1	Kick Plate	K1050 10" BEV CSK	US26D	RO
1	Door Stop	406 / 441H (as req'd per app)	US32D	RO
1	Gasketing	S88BL (Head and Jambs)		PE

Notes: At existing doors and frames, verify all existing conditions and modify hardware as required prior to purchase.

#### Set: 26.0

Doors: E451, E478M Description: Existing Sgl -Office Lock - Closer - W/F Stop

3	Hinge, Full Mortise	TA2714	US26D	MK
1	Office/Entry Lock	LC 8205 LNL	US26D	SA
1	Cylinder	Match Existing	US32D	SA
1	Surface Closer	TB 351 UO / PS as required	EN	SA
1	Kick Plate	K1050 10" BEV CSK	US26D	RO
1	Door Stop	406 / 441H (as req'd per app)	US32D	RO
1	Gasketing	S88BL (Head and Jambs)		PE

Notes: At existing doors and frames, verify all existing conditions and modify hardware as required prior to purchase.

#### Set: 27.0

Doors: E401, E402 Description: Existing Sgl -Push/Pull - Closer - W/F Stop

3	Hinge, Full Mortise	TA2714	US26D	MK
1	Pull Plate - 4" x 16"	107x70C	US32D	RO
1	Push Plate - 4" x 16"	70C	US32D	RO
1	Surface Closer	TB 351 UO / PS as required	EN	SA
1	Kick Plate	K1050 10" BEV CSK	US26D	RO
1	Door Stop	406 / 441H (as req'd per app)	US32D	RO

1 Gasketing

#### S88BL (Head and Jambs)

PE

Notes: At existing doors and frames, verify all existing conditions and modify hardware as required prior to purchase.

#### Set: 28.0

Doors: E420, E421A, E421B Description: Existing Passage - Closer KP

3	Hinge, Full Mortise	TA2714	US26D	MK
1	Passage Latch	8215 LNL	US26D	SA
1	Surface Closer	TB 351 UO / PS as required	EN	SA
1	Kick Plate	K1050 10" BEV CSK	US26D	RO
1	Door Stop	406 / 441H (as req'd per app)	US32D	RO
3	Silencer	608 / 609		RO

Notes: At existing doors and frames, verify all existing conditions and modify hardware as required prior to purchase.

#### Set: 29.0

#### Doors: E466E Description: Existing DE Pair - SVR x SVR EO - Closer EMHO

6	Hinge (heavy weight)	T4A3786	US26D	MK
2	Surface Vert Rod Exit, Exit Only	NB8710 EO	US32D	SA
2	Surface Closer	TB 351 UO / PS as required	EN	SA
2	Kick Plate	K1050 10" BEV CSK	US26D	RO
2	Electromagnetic Holder	990 Series	689	RF
1	Astragal Set (2)	18041CNB		PE
1	Gasketing	S88BL (Head and Jambs)		PE

Notes: At existing doors and frames, verify all existing conditions and modify hardware as required prior to purchase.

#### <u>Set: 30.0</u>

Doors: E208, E476 Description: Existing Stair

3	Hinge (heavy weight)	T4A3786	US26D	MK
1	Rim Exit Device, Passage	12 8815 ETL	US32D	SA
1	Surface Closer	TB 351 UO / PS as required	EN	SA
1	Kick Plate	K1050 10" BEV CSK	US26D	RO
1	Door Stop	406 / 441H (as req'd per app)	US32D	RO
1	Gasketing	S88BL (Head and Jambs)		PE

Notes: At existing doors and frames, verify all existing conditions and modify hardware as required prior to purchase.

#### Set: 31.0

#### Doors: E455A, E504 Description: Existing Toilet - Privacy - Closer - W/F stop

3	Hinge, Full Mortise	TA2714	US26D	MK
1	Privacy Lock	8265 LNL	US26D	SA
1	Surface Closer	TB 351 UO / PS as required	EN	SA
1	Kick Plate	K1050 10" BEV CSK	US26D	RO
1	Mop Plate	K1050 4" BEV CSK	US32D	RO
1	Door Stop	406 / 441H (as req'd per app)	US32D	RO
1	Gasketing	S88BL (Head and Jambs)		PE

Notes: At existing doors and frames, verify all existing conditions and modify hardware as required prior to purchase.

#### Set: 32.0

Doors: E484 Description: Existing Stair-Delayed Egress

2	Hinge (heavy weight)	T4A3786	US26D	MK
1	Hinge (heavy weight)	T4A3786 QC*	US26D	MK
1	Magnetic Lock	DEM680E Series	630	SU
1	Fail Safe Exit Device	LC 55 8875 ETL	US32D	SA
1	Cylinder	Match Existing	US32D	SA
1	Surface Closer	TB 351 UO / PS as required	EN	SA
1	Kick Plate	K1050 10" BEV CSK	US26D	RO
1	Door Stop	406 / 441H (as req'd per app)	US32D	RO
1	Gasketing	S88BL (Head and Jambs)		PE
1	ElectroLynx Harness	QC-C1500P		MK
1	ElectroLynx Harness	QC-CxxxP		MK
1	Card Reader	By Security Contractor		OT
1	Position Switch	DPS-M/W-BK (as req'd per app)		SU
1	Power Supply	AQDx size as req		SU
1	Card Reader	By Security Contractor.		OT

Notes: Doors are normally closed and secure. Unauthorized exit attempt will initiate immediate alarm and 15-second delay to exit. Valid credential will bypass alarm for immedate exit. Upon loss of power or signal from fire control, doors will allow free and immediate egress.

At existing doors and frames, verify all existing conditions and modify hardware as required prior to purchase.

#### Set: 33.0

Doors: E481A Description: Existing DE Pair - SVR x SVR CR - Closer - EMHO

2 Continuous Hinge	FM HD1		PE
2 Surface Vert Rod Exit, Classroom	$\overline{\text{LC}}$ NB8713 ETL (12- AS REQ)	US32D	SA
2 Cylinder	Match Existing	US32D	SA

Surface Closer	TB 351 UO / PS as required	EN	SA
Kick Plate	K1050 10" BEV CSK	US26D	RO
Electromagnetic Holder	990 Series	689	RF
Astragal Set (2)	18041CNB		PE
Gasketing	S88BL (Head and Jambs)		PE
	Surface Closer Kick Plate Electromagnetic Holder Astragal Set (2) Gasketing	Surface CloserTB 351 UO / PS as requiredKick PlateK1050 10" BEV CSKElectromagnetic Holder990 SeriesAstragal Set (2)18041CNBGasketingS88BL (Head and Jambs)	Surface CloserTB 351 UO / PS as requiredENKick PlateK1050 10" BEV CSKUS26DElectromagnetic Holder990 Series689Astragal Set (2)18041CNB689GasketingS88BL (Head and Jambs)588BL (Head and Jambs)

Notes: Doors are magnetically held open and must be tied in to fire control. Upon loss of power or signal from fire control doors will close and latch. Power and wiring is by others. At existing doors and frames, verify all existing conditions and modify hardware as required prior to purchase.

END OF SECTION 087100