# Request for Interpretation Response

Project Name: Surgical Tech Sim Suite
Project No.: 26053
Owner: NWACC

RFI NO: **01**
Date of Request: 11/5/2026
Date of Response: 11/6/2026

Contractor: Bidders

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**Description:** (Written description of the Work)

1. **Need "As-Built" Electrical Drawing showing where the Electrical Room is located that has Panel H2S1. This is needed to get the footage for removing the old wiring and providing the new (3) #10 wires needed for the new Water Heater and replacing the 480V, 3 Pole Breaker with a 277V, 1 Pole Breaker.**

    A. **Response: Please find the attached As-Built Electrical Drawings for reference.**

2. **Another option to item #1 is to provide a new 277V, 1 Pole Breaker in one of the existing 480/277V Panels located in Electric Room 2029. The panels have space and capacity to add the new 25A, 277V circuit and this room is closer to the Surgical Tech Suite.**

    A. **Response: This is an acceptable alternative to run to this alternate panel if it is more cost effective to add conduit and wire rather than just pull new wire.**

3. **Detailed information needed on the (2) Surgical Light Control Panels for rough-in.**

    A. **Response: The Lights are NUVO Model VL1350A1HM4, SN/2120037 and VL1350A1HM3, SN/N12120036, The controller is SN/ NUVO NO113020 no other tag. Trilux power supply H/L TK.NR: 10048023.**

*The aforementioned represents our understanding and response to the request for information generated by the Contractor. Please notify the originator in writing of any differences.*

Attachments: (List attached documents that support the description)

**As-Built Electrical Drawings**

By: Ashley Tucker, AIA

CC: (Owner, Contractor)
Central File: J:\2026\26053 NWACC Surgical Tech Suite\1000 Bidding Information

2 Item 16) ***Revision*** RE: Attached E-101 through E-103 for revisions to the lighting plans (1st through 3rd floor).

## GENERAL LIGHTING NOTES

1. CEILING MOUNTED OCCUPANCY SENSORS TO BE 360 DEGREE, DUAL TECHNOLOGY LIGHTOLIER INTELLISIGHT LOW-VOLTAGE SENSORS: MODEL ITSCS WITH RELAY PACK. OCCUPANCY SENSOR RELAY PACKS TO BE LIGHTOLIER ITSRPHU PROVIDE APPROPRIATE 1, 2, OR 4 RELAY CONFIGURATION AS NEEDED PER ROOM. SENSORS TO BE SET TO 30 MINUTE DELAY.
2. HALLWAYS TO BE CONTROLLED BY LEVITON HALLWAY PIR SENSOR MODEL OSC2B-M WITH RELAY PACK OSP20-DO. SENSOR TO PROVIDE SIGNAL TO BOTH EMERGENCY LIGHTING RELAY PACK AND NORMAL LIGHTING RELAY PACK. HALLWAY LIGHTING TO BE WIRED VIA SENSORS AS TO TURN LIGHTS ON IN HALLWAY BEFORE STUDENT REACHES HALLWAY INTERSECTIONS.
3. CLASSROOM LIGHTING TO BE SPLIT BETWEEN FRONT ROW LIGHTING AND THE REST OF ROOM LIGHTS. EACH TO BE SWITCHED BY DUAL GANG SINGLE STACK SWITCHES CONTROLLING BI-LEVEL SYLVANIA STEP DIM BALLAST FOR TWO LEVELS OF LIGHTING. ALL FIXTURES IN ROOM TO BE CIRCUITED TO ROOM DUAL TECHNOLOGY CEILING MOUNTED OCCUPANCY SENSOR. SEE DETAIL 2/E-501 FOR ADDITIONAL INFORMATION
4. UNDER COUNTER LIGHTS TO BE CONTROLLED BY LIGHT SWITCH MOUNTED ABOVE CABINET.
5. STAIRWELL LIGHTS TO BE CONTROLLED BY WALL MOUNTED OCCUPANCY SENSORS: LEVITON DUAL TECH MODEL #OSC10-MOW WITH POWER PACK OSP20-DO. SENSOR TO BE LOCATED IN CORNER OF STAIRWELL WHERE SHOWN TO COVER 110 DEGREES FOR BOTH ENTRY DOOR AND STAIRS. LIGHTS IN STAIRS TO BE ON WHEN ANY SENSOR IN STAIRS DETECTS MOTION SENSORS TO BE SET TO 30 MINUTE DELAY.
6. EXTERIOR LIGHTS TO BE CONTROLLED VIA LEVITON EZ-MAX R248D-L16 AND TURN ON AT ONE HOUR BEFORE SUNSET/OFF ONE HOUR AFTER SUNRISE VIA ASTRONOMICAL TIMECLOCK WITH PHOTOCELL OVERRIDE.
7. LOBBY TYPE L FIXTURES TO BE CONTROLLED VIA EZ-MAX LIGHTING CONTROLLER WITH OCCUPANCY SENSOR OVERRIDE WHERE SPECIFIED BY KEYNOTES.
8. BED LIGHTS TO BE CONTROLLED BY SWITCH LOCATED IN HEADWALL. COORDINATE THE INSTALLATION WITH HEADWALL MANUFACTURER AND INSTALLER.
9. OCCUPANCY SENSORS TO BE SET FOR 30 MINUTE DELAY, UNLESS NOTED OTHERWISE. COORDINATE FINAL DELAY TIME WITH OWNER DURING FINAL CALIBRATION DURING CONSTRUCTION.
10. ALL OCCUPANCY SENSORS TO BE OSC15-10W PIR, 1500 SQ FT COVERAGE, CEILING MOUNTED UNLESS OTHERWISE NOTED

## KEYED NOTES

1. FIXTURE LOCATED IN ELEVATOR PIT CONTROLLED BY SWITCH IN PIT AND CIRCUITED TO RECEPTACLE IN ELEVATOR.
2. TYPE L FIXTURES IN FRONT LOBBY TO BE CONTROLLED THROUGH EZ-MAX LIGHTING CONTROL LC1 WITH ONE LAMP ALWAYS ON DURING PROGRAMMED NIGHT HOURS AND THE OTHER LAMP ON DURING PROGRAMMED NIGHT HOURS WITH OCCUPANCY SENSOR OVERRIDE. SENSOR OPERATED LAMP TO TURN ON WHEN ANY MOVEMENT IS DETECTED IN LOBBY AREA OR AIR LOCK 101
3. TYPE L FIXTURES IN LOBBIES TO BE CONTROLLED THROUGH EZ-MAX LIGHTING CONTROLLER LC1 WITH ONE LAMP ALWAYS ON DURING PROGRAMMED NIGHT HOURS AND THE OTHER LAMP ON DURING PROGRAMMED NIGHT HOURS WITH OCCUPANCY SENSOR OVERRIDE. SENSOR OPERATED LAMP TO TURN ON WHEN ANY MOVEMENT IS DETECTED IN LOBBY AREA.
4. PROVIDE JUNCTION BOX ABOVE CEILING FOR LOBBY LIGHT FIXTURE.
5. MODEL OSC04-10W PIR, 450 SQ FT COVERAGE, CEILING MOUNTED.
6. PROVIDE FDI MODEL# ESR02P EMERGENCY BYPASS/SHUNT RELAY TO TURN LIGHTS IN THIS ROOM ON EXCLUSIVE OF SWITCH.

1. Stairwell wall occupancy sensors are to be installed at 8'-0" above finished landing.
2. Type G: Bottom of fixture is to be 6" above door.
   Type M: Bottom of fixture is to be 7'-0" above finished landing.
   Type V: Bottom of fixture is to be 5'-0" above finished floor.
3. SOV-EM-R-XX-BA-XX-XX. Refer to plans for number of faces, ceiling mounting requirements, (RC, SW) with most being Recessed Ceiling (RC), and which require chevrons. Letter color to be Red.
4. Mount back boxes at 40" AFF or 8" above lower countertop (disregard back splash).

1 FIRST FLOOR LIGHTING PLAN
1/8" = 1'-0"

CHANGES TOO NUMEROUS TO CLOUD, REVIEW ENTIRE SHEET FOR OCCUPANCY SENSOR CHANGES.


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**Nabholz Construction**
**Rogers Division**
As-Built Construction
By: JD Hammett, AC
Date: 02/11/2013

# Addendum
# Approved COR
# RFI

NORTHWEST ARKANSAS COMMUNITY COLLEGE · 1989 ·

# NWACC HEALTH PROFESSIONS BUILDING

BENTONVILLE, ARKANSAS

Key Plan

| No. | Description | Date |
|---|---|---|
| 1 | Addendum 2 | 07/19/11 |
| 2 | DPS REDESIGN | 03/23/12 |


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PROJECT NO: 101074-00
ISSUE DATE: 06/17/11
CONTACT: M. OWINGS
CHECKED BY: MC

CONSTRUCTION BID SET

STATE OF ARKANSAS · Jason D. Hammond · REGISTERED PROFESSIONAL ENGINEER · No. 13427 · 3/23/2012 · ERIC MICHAEL TULL (WARD)


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FIRST FLOOR LIGHTING PLAN

E-101


12/20/2012 9:38:13 AM
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Item 16) ***Revision*** RE: Attached E-101 through E-103 for revisions to the lighting plans (1st through 3rd floor).

## GENERAL LIGHTING NOTES

1. CEILING MOUNTED OCCUPANCY SENSORS TO BE 360 DEGREE, DUAL TECHNOLOGY LIGHTOLIER INTELLISIGHT LOW-VOLTAGE SENSORS- MODEL ITSCS WITH RELAY PACK. OCCUPANCY SENSOR RELAY PACKS TO BE LIGHTOLIER ITSRPWLI. PROVIDE APPROPRIATE 1, 2, OR 4 RELAY CONFIGURATION AS NEEDED PER ROOM. SENSORS TO BE SET TO 30 MINUTE DELAY
2. HALLWAYS TO BE CONTROLLED BY LEVITON HALLWAY PIR SENSOR MODEL OSC20-M WITH RELAY PACK OSP20-DO. SENSOR TO PROVIDE SIGNAL TO BOTH EMERGENCY LIGHTING RELAY PACK AND NORMAL LIGHTING RELAY PACK. HALLWAY LIGHTING TO BE WIRED VIA SENSORS AS TO TURN LIGHTS ON IN HALLWAY BEFORE STUDENT REACHES HALLWAY INTERSECTIONS.
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4. UNDER COUNTER LIGHTS TO BE CONTROLLED BY LIGHT SWITCH MOUNTED ABOVE CABINET.
5. STAIRWELL LIGHTS TO BE CONTROLLED BY WALL MOUNTED OCCUPANCY SENSORS. LEVITON DUAL TECH MODEL #OSC10-MOW WITH POWER PACK OSP20-DO. SENSOR TO BE LOCATED IN CORNER OF STAIRWELL WHERE SHOWN TO COVER 110 DEGREES FOR BOTH ENTRY DOOR AND STAIRS. LIGHTS IN STAIRS TO BE ON WHEN ANY SENSOR IN STAIRS DETECTS MOTION. SENSORS TO BE SET TO 30 MINUTE DELAY
6. EXTERIOR LIGHTS TO BE CONTROLLED VIA LEVITON EZ-MAX R24BD-L16 AND TURN ON AT ONE HOUR BEFORE SUNSET/OFF ONE HOUR AFTER SUNRISE VIA ASTRONOMICAL TIMECLOCK WITH PHOTOCELL OVERRIDE.
7. LOBBY TYPE L FIXTURES TO BE CONTROLLED VIA EZ-MAX LIGHTING CONTROLLER WITH OCCUPANCY SENSOR OVERRIDE WHERE SPECIFIED BY KEYNOTES.
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1 SECOND FLOOR LIGHTING PLAN
1/8" = 1'-0"

CHANGES TOO NUMEROUS TO CLOUD, REVIEW ENTIRE SHEET FOR OCCUPANCY SENSOR CHANGES


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**Nabholz Construction**
**Rogers Division**
As-Built Construction
By: JD Hammett, AC
Date: 02/11/2013

# Addendum
# Approved COR
# RFI

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# NWACC HEALTH PROFESSIONS BUILDING

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PROJECT NO 101074-00
ISSUE DATE: 06/17/11
CONTACT M. OWINGS
CHECKED BY: MRL

CONSTRUCTION BID SET

ARKANSAS REGISTERED PROFESSIONAL ENGINEER No. 13427 ERIC MICHAEL HOWARD


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SECOND FLOOR LIGHTING PLAN

E-102

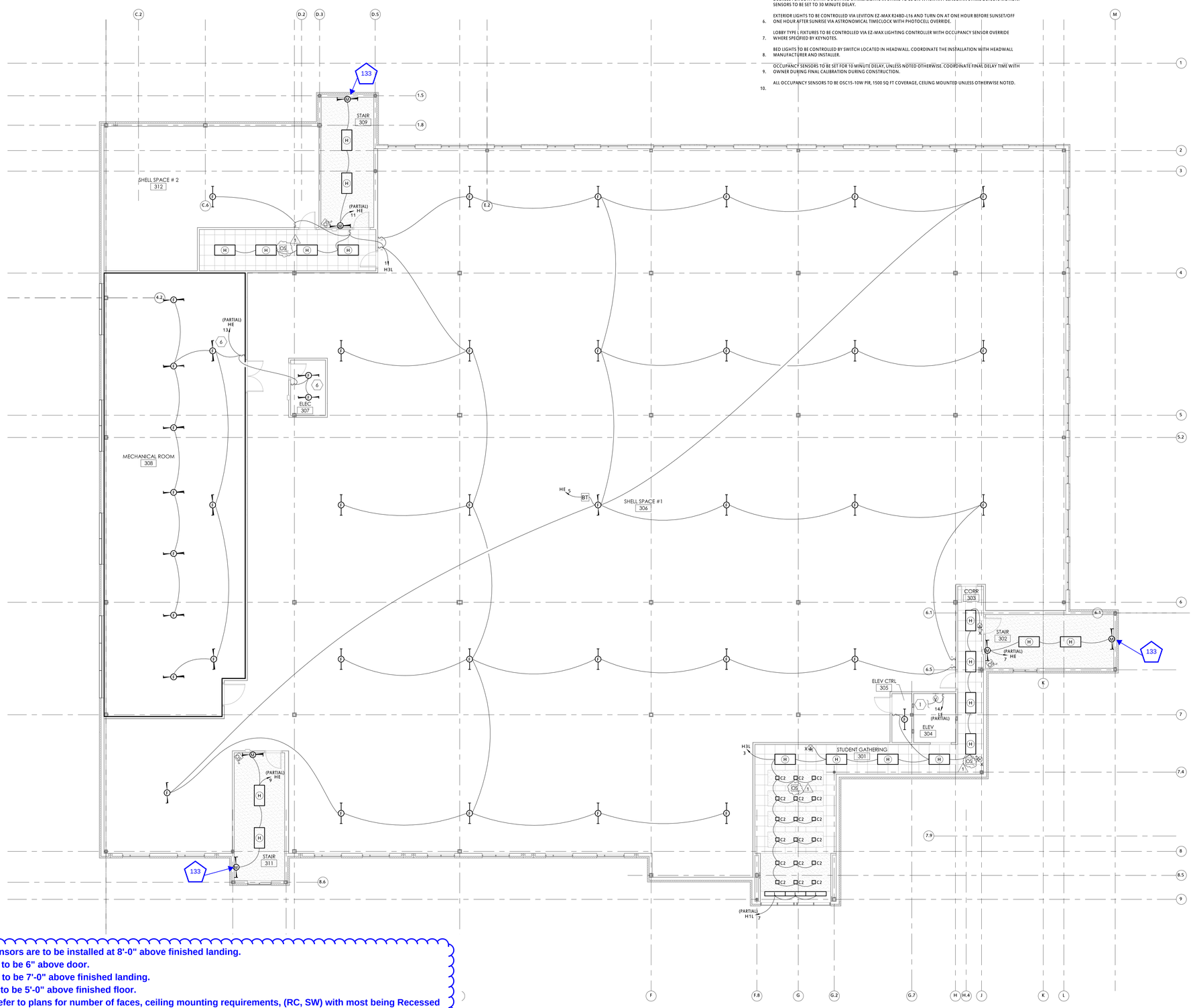
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4. PROVIDE JUNCTION BOX ABOVE CEILING FOR LOBBY LIGHT FIXTURE.
5. MODEL OSC04-10W PIR, 450 SQ FT COVERAGE, CEILING MOUNTED.
6. PROVIDE FDI MODEL# ES802P EMERGENCY BYPASS/SHUNT RELAY TO TURN LIGHTS IN THIS ROOM ON EXCLUSIVE OF SWITCH.




1. Stairwell wall occupancy sensors are to be installed at 8'-0" above finished landing.
2. Type G: Bottom of fixture is to be 6" above door.
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4. Mount back boxes at 40" AFF or 8" above lower countertop (disregard back splash).

1 THIRD FLOOR LIGHTING PLAN
1/8" = 1'-0"


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**Nabholz Construction**
**Rogers Division**

As-Built Construction

By: JD Hammett, AC
Date: 02/11/2013

# Addendum
# Approved COR
# RFI

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# NWACC HEALTH PROFESSIONS BUILDING

BENTONVILLE, ARKANSAS

Key Plan

| No. | Description | Date |
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| 1 | Addendum 2 | 07/19/11 |


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PROJECT NO: 101074-00
ISSUE DATE: 07/19/11
CONTACT: M. OWINGS
CHECKED BY:

CONSTRUCTION BID SET

ARKANSAS REGISTERED PROFESSIONAL ENGINEER JOHN D. HAMMETT No. 13427 07/19/2011 PLUMBING ELECTRICAL


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THIRD FLOOR LIGHTING PLAN

E-103


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# GENERAL NOTES

1. FLOOR BOXES NEAR LECTERNS TO BE HUBBLE SCRUB SHIELD MODEL HBLCFB301BASE WITH COVER MODEL HBLTCGNTSW. PROVIDE 2 DUPLEXES, 2 DATA AND ONE 1" CONDUIT TO ABOVE CEILING FOR A/V OUTLETS AND CABLING TO TVs PER OWNER REQUIREMENTS
2. RECEPTACLES ON EMERGENCY CIRCUITS ARE TO BE ORANGE
3. CONTRACTOR TO INSTALL COAX CABLE FROM ALL TV OUTLET LOCATIONS BACK TO ROOM IT 187 FOR CONNECTION INTO CABLE BOX. COORDINATE WITH OWNER AND CABLE PROVIDER.
4. NUMBER AT DATA OUTLETS DEPICTS NUMBER OF CAT6 CABLE DROPS AT EACH OUTLET.
5. ELECTRICAL CONTRACTOR TO PROVIDE POWER TO MANUFACTURER FURNISHED JUNCTION BOXES IN HEADWALLS ABOVE PATIENT BEDS.
6. ~~PROVIDE 25 PAIR TELEPHONE CABLE FROM IT TO GLOBAL BUSINESS. REFER TO CIVIL PLANS FOR CONDUIT RUNS.~~
7. ~~PROVIDE 50 PAIR TELEPHONE CABLE TO ROOM C204 AT THE SHEWMAKER CENTER FOR WORKPLACE DEVELOPMENT (ADDENDUM #2, RFI #17)~~

# KEYED NOTES

1. PROVIDE JUNCTION BOX AND CABLE ABOVE CEILING FOR MOTORIZED PROJECTION SCREEN. ELECTRICAL CONTRACTOR TO PROVIDE CORD FROM JUNCTION BOX TO PROJECTOR. COORDINATE WITH A/V CONSULTANT.
2. PROVIDE JUNCTION BOX ABOVE CEILING FOR EXTERIOR ANTENNA.
3. PROVIDE JUNCTION BOX ABOVE CEILING FOR MOTOR FOR AUTOMATIC DOOR
4. PROVIDE FLOOR BOXES FOR POWER AND DATA FOR COMPUTER TABLES. COORDINATE WITH ARCHITECTURAL FOR LOCATION OF BOXES. FLOOR BOXES TO BE WIREMOLD OMNIBOX MODEL 880S2 WITH TWO (2) MODEL B30CKTCAL-1 COVER PLATES WITH THREE PHASE POWER AND FIVE CAT 6 DROPS IN EACH.
5. PROVIDE 4"x4" JUNCTION BOX AT +58" WITH 1" CONDUIT ABOVE CEILING FOR TV CONNECTIONS. COORDINATE CABLES WITH A/V CONSULTANT (HDM1, CABLE, 1/8 AUDIO, SPEAKER WIRE).
6. PROVIDE JUNCTION BOXES FOR POWER AND DATA FOR COMPUTER TABLES. COORDINATE WITH ARCHITECTURAL FOR LOCATION OF JUNCTION BOXES.
7. ALL RECEPTACLES ON THIS CIRCUIT TO BE PROTECTED BY GFI RECEPTACLE AT BEGINNING OF CIRCUIT
8. PROVIDE HUBBLE SCRUB SHIELD MODEL HBLCFB301BASE FLOOR BOX WITH COVER MODEL HBLTCGNTSW PROVIDE 2 DUPLEX OUTLET, 2 DATA AND ONE 1" CONDUIT TO ABOVE CEILING FOR A/V OUTLETS AND CABLING TO TV PER OWNER REQUIREMENTS.
9. EXISTING FLOOR BOX TO BE ABANDONED PROVIDE BLANK COVERPLATE SAW CUT EXISTING CONCRETE TO PROVIDE TRENCH TO NEW FLOOR BOX LOCATIONS SHOWN. COORDINATE WITH GENERAL CONTRACTOR FOR SAW CUT AND CONCRETE PATCHING.
10. SAW CUT EXISTING CONCRETE TO PROVIDE TRENCH TO NEW FLOOR BOX LOCATION SHOWN COORDINATE WITH GENERAL CONTRACTOR FOR SAW CUT AND CONCRETE PATCHING.

Item 17) ***Revision*** RE: General Notes, Sheets E-104 through E-106, Note number 6 should call for 50 pair telephone cable to be run to Room C204 at the Shewmaker Center for Workforce Development.

## 1 PARTIAL FIRST FLOOR POWER AND COMMUNICATIONS PLAN - W

1/8" = 1'-0"

NWACC HEALTH PROFESSIONS BUILDING
BENTONVILLE, ARKANSAS

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PROJECT NO: 101074-00
ISSUE DATE: 07/19/11
CONTACT: M. OWINGS
CHECKED BY:
REVISION:
PARTIAL FIRST FLOOR POWER AND COMM. PLAN ADDENDUM NUMBER 2
E-104
EAD-01

ARKANSAS — REGISTERED PROFESSIONAL ENGINEER — No. 13427 — 7/19/11 — ERIC MICHAEL HAYWARD

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## 1 PARTIAL FIRST FLOOR POWER AND COMMUNICATIONS PLAN - S

1/8" = 1'-0"

NWACC HEALTH PROFESSIONS BUILDING
BENTONVILLE, ARKANSAS

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REVISION:
PARTIAL FIRST FLOOR POWER AND COMM. PLAN ADDENDUM NUMBER 2
E-104
EAD-02

ARKANSAS — REGISTERED PROFESSIONAL ENGINEER — No. 13427 — 7/19/11 — ERIC MICHAEL HAYWARD

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## 1 FIRST FLOOR POWER AND COMMUNICATIONS PLAN

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|---|---|---|
| 1 | Addendum 2 | 07/19/11 |
| 2 | ESK-006 | 02/22/12 |
| 3 | DPS REDESIGN | 03/23/12 |


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PROJECT NO: 101074-00
ISSUE DATE: 06/17/11
CONTACT: M. OWINGS
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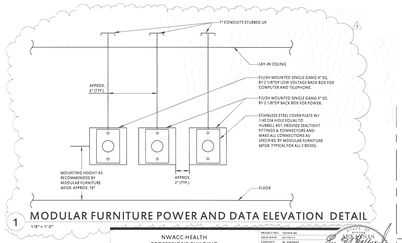
CONSTRUCTION BID SET

ARKANSAS — REGISTERED PROFESSIONAL ENGINEER — No. 13427 — 7/19/11 — ERIC MICHAEL HAYWARD


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FIRST FLOOR POWER AND COMMUNICATIONS PLAN

**E-104**




1 MODULAR FURNITURE POWER AND DATA ELEVATION DETAIL
1/8" = 1'-0"

NWACC HEALTH PROFESSIONS BUILDING
BENTONVILLE, ARKANSAS

Crafton Tull

ESK-003

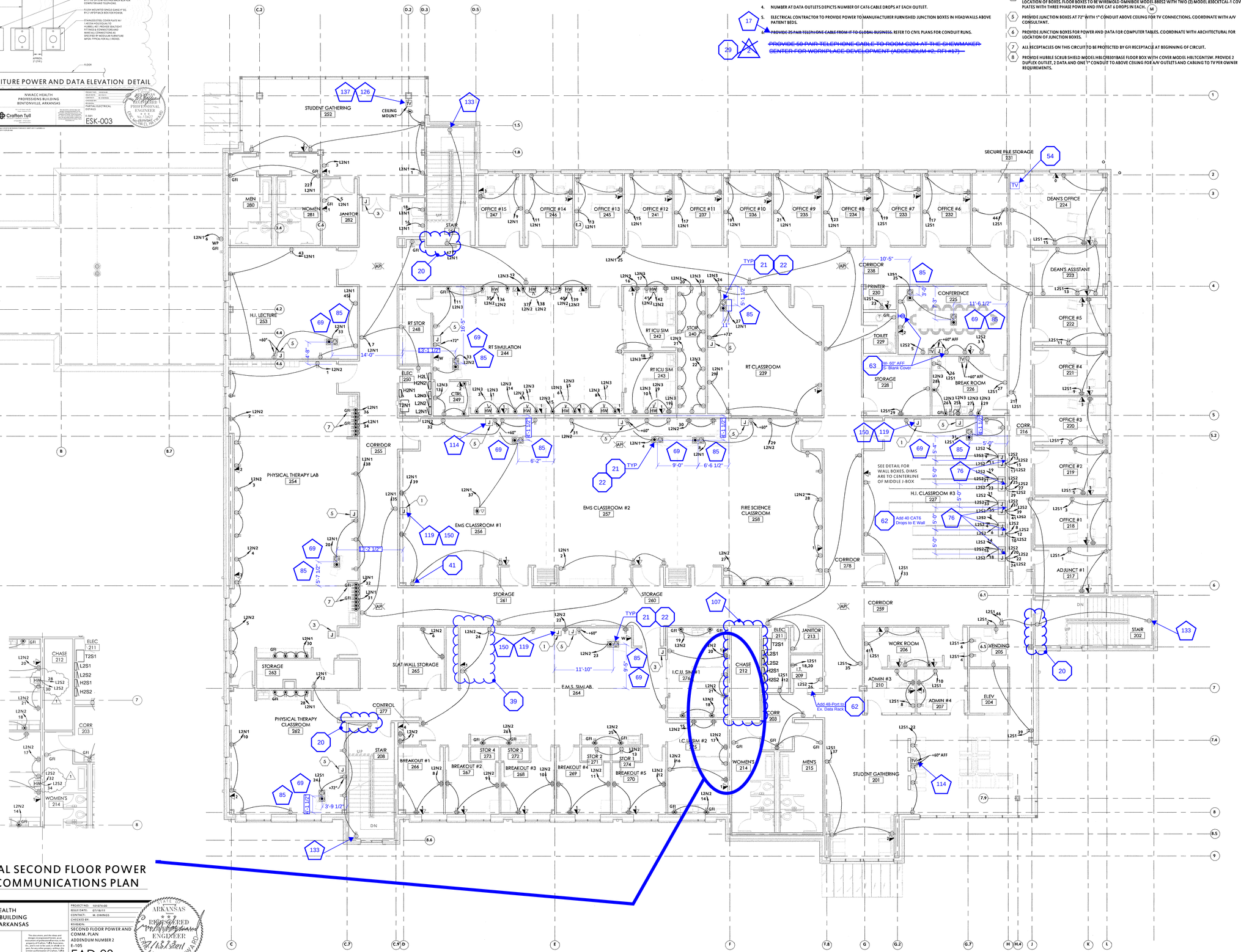
Item 17) ***Revision*** RE: General Notes, Sheets E-104 through E-106, Note number 6 should call for 50 pair telephone cable to be run to Room C204 at the Shewmaker Center for Workforce Development.

## GENERAL NOTES

1. FLOOR BOXES NEAR LECTERNS TO BE HUBBELSCRUB SHIELD MODEL HBLCF8301BASE WITH COVER MODEL HBLTCGNTSW. PROVIDE 2 DUPLEXES, 1 DATA AND ONE 1" CONDUIT TO ABOVE CEILING FOR A/V OUTLETS AND CABLING TO TVs PER OWNER REQUIREMENTS.
2. RECEPTACLES ON EMERGENCY CIRCUITS ARE TO BE ORANGE.
3. CONTRACTOR TO INSTALL COAX CABLE FROM ALL TV OUTLET LOCATIONS BACK TO ROOM IT 187 FOR CONNECTION INTO CABLE BOX. COORDINATE WITH OWNER AND CABLE PROVIDER.
4. NUMBER AT DATA OUTLETS DEPICTS NUMBER OF CAT6 CABLE DROPS AT EACH OUTLET.
5. ELECTRICAL CONTRACTOR TO PROVIDE POWER TO MANUFACTURER FURNISHED JUNCTION BOXES IN HEADWALLS ABOVE PATIENT BEDS.
6. ~~PROVIDE 25 PAIR TELEPHONE CABLE FROM IT TO GLOBAL BUSINESS~~. REFER TO CIVIL PLANS FOR CONDUIT RUNS.
7. ~~PROVIDE 50 PAIR TELEPHONE CABLE TO ROOM C204 AT THE SHEWMAKER CENTER FOR WORKPLACE DEVELOPMENT (ADDENDUM #2, RFI #17)~~

## KEYED NOTES

1. PROVIDE JUNCTION BOX AND CABLE ABOVE CEILING FOR MOTORIZED PROJECTION SCREEN. ELECTRICAL CONTRACTOR TO PROVIDE CORD FROM JUNCTION BOX TO PROJECTOR. COORDINATE WITH A/V CONSULTANT.
2. PROVIDE JUNCTION BOX ABOVE CEILING FOR EXTERIOR ANTENNA.
3. PROVIDE JUNCTION BOX ABOVE CEILING FOR MOTOR FOR AUTOMATIC DOOR.
4. PROVIDE FLOOR BOXES FOR POWER AND DATA FOR COMPUTER TABLES. COORDINATE WITH ARCHITECTURAL FOR LOCATION OF BOXES. FLOOR BOXES TO BE WIREMOLD OMNIBOX MODEL 880S2 WITH TWO (2) MODEL 830CEXTCAL-1 COVER PLATES WITH THREE PHASE POWER AND FIVE CAT 6 DROPS IN EACH. (M)
5. PROVIDE JUNCTION BOXES AT 72" WITH 1" CONDUIT ABOVE CEILING FOR TV CONNECTIONS. COORDINATE WITH A/V CONSULTANT.
6. PROVIDE JUNCTION BOXES FOR POWER AND DATA FOR COMPUTER TABLES. COORDINATE WITH ARCHITECTURAL FOR LOCATION OF JUNCTION BOXES.
7. ALL RECEPTACLES ON THIS CIRCUIT TO BE PROTECTED BY GFI RECEPTACLE AT BEGINNING OF CIRCUIT.
8. PROVIDE HUBBLE SCRUB SHIELD MODEL HBLCF8301BASE FLOOR BOX WITH COVER MODEL HBLTCGNTSW. PROVIDE 2 DUPLEX OUTLET, 2 DATA AND ONE 1" CONDUIT TO ABOVE CEILING FOR A/V OUTLETS AND CABLING TO TV PER OWNER REQUIREMENTS.




1 PARTIAL SECOND FLOOR POWER AND COMMUNICATIONS PLAN
1/8" = 1'-0"

1 SECOND FLOOR POWER AND COMMUNICATIONS PLAN
1/8" = 1'-0"

NWACC HEALTH PROFESSIONS BUILDING
BENTONVILLE, ARKANSAS

Crafton Tull

PROJECT NO: 101074-00
ISSUE DATE: 07/18/11
CONTACT: M. OWINGS
CHECKED BY:
REVISION:
SECOND FLOOR POWER AND COMM. PLAN
ADDENDUM NUMBER 2
E-105
EAD-03

STATE OF ARKANSAS · REGISTERED PROFESSIONAL ENGINEER · ERIC MICHAEL HAYWARD · 13427 · 7/18/2011

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**Nabholz Construction**
**Rogers Division**
As-Built Construction
By: JD Hammett, AC
Date: 02/11/2013

# Addendum
# Approved COR
# RFI

NORTHWEST ARKANSAS COMMUNITY COLLEGE · 1989 ·

NWACC HEALTH PROFESSIONS BUILDING
BENTONVILLE, ARKANSAS

Key Plan

| No. | Description | Date |
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SECOND FLOOR POWER AND COMMUNICATIONS PLAN

E-105

2 Item 17) ***Revision*** RE: General Notes, Sheets E-104 through E-106, Note number 6 should call for 50 pair telephone cable to be run to Room C204 at the Shewmaker Center for Workforce Development.

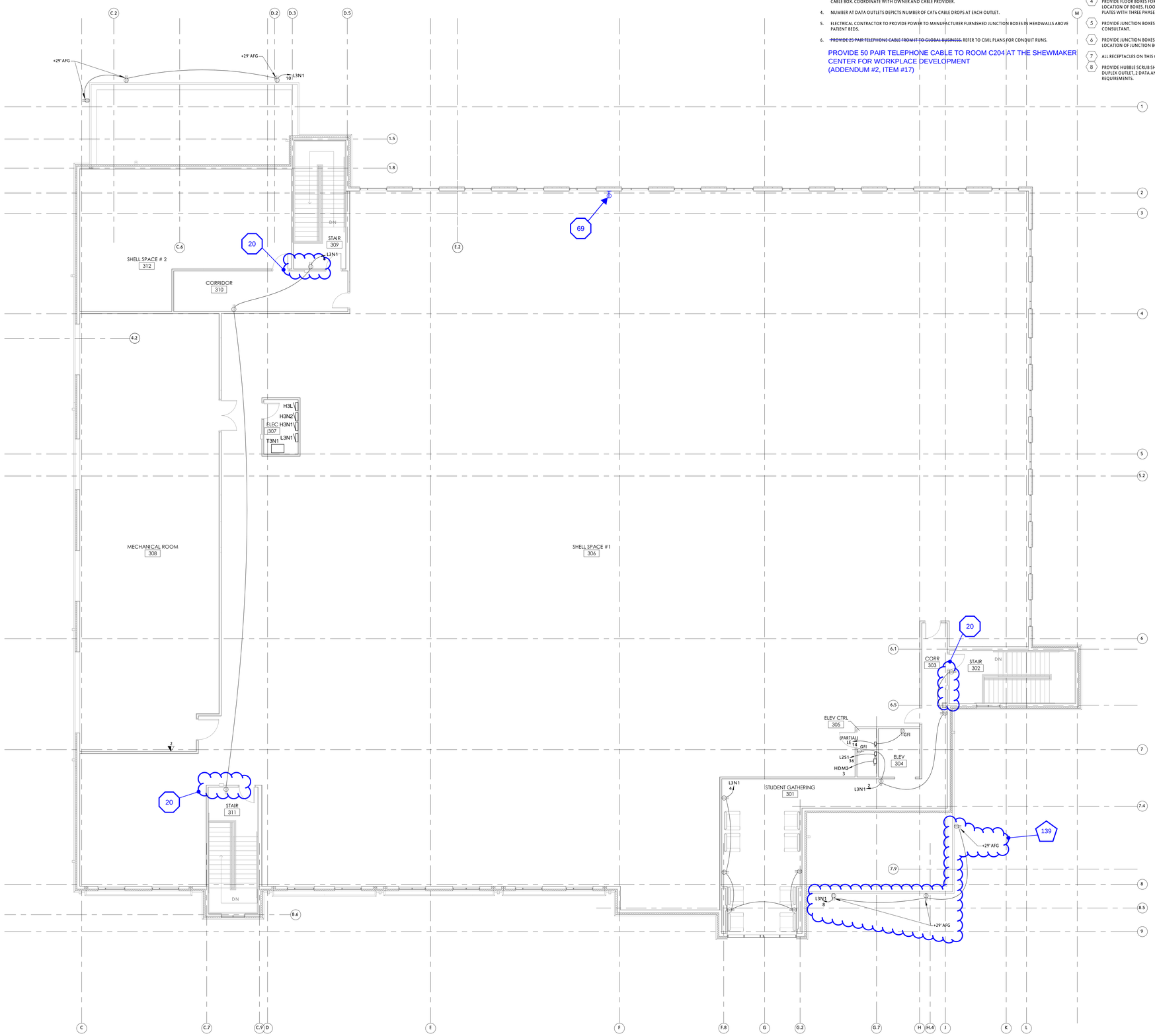
## GENERAL NOTES

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PROVIDE 50 PAIR TELEPHONE CABLE TO ROOM C204 AT THE SHEWMAKER CENTER FOR WORKPLACE DEVELOPMENT
(ADDENDUM #2, ITEM #17)

## KEYED NOTES

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1 THIRD FLOOR POWER AND COMMUNICATIONS PLAN
1/8" = 1'-0"


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ARKANSAS ENGINEER

**Nabholz Construction**
**Rogers Division**

As-Built Construction

By: JD Hammett, AC
Date: 02/11/2013

# Addendum
# Approved COR
# RFI

NORTHWEST ARKANSAS COMMUNITY COLLEGE • 1989 •

# NWACC HEALTH PROFESSIONS BUILDING

BENTONVILLE, ARKANSAS

Key Plan

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CHECKED BY:

CONSTRUCTION BID SET

ARKANSAS REGISTERED PROFESSIONAL ENGINEER CHRISTOPHER MICHAEL HAYWARD 07/19/2011


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THIRD FLOOR POWER AND COMMUNICATIONS PLAN

E-106


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## GENERAL NOTES

1. DISCONNECTS PROVIDED BY MANUFACTURER UNLESS OTHERWISE NOTED.

## KEYED NOTES

1. INSIDE DUCTLESS SPLIT UNIT POWERED AND CONTROLLED BY CORRESPONDING OUTSIDE CONDENSING UNIT.
2. RELOCATED MEDICAL VACUUM PUMP. COORDINATE POWER REQUIREMENTS WITH EQUIPMENT
3. RELOCATED MED AIR COMPRESSOR. COORDINATE POWER REQUIREMENTS WITH EQUIPMENT.
4. JUNCTION BOX FOR SUMP PUMP. COORDINATE WITH EQUIPMENT.
5. HEAT TRACE POWER FOR PLUMBING. COORDINATE WITH PLUMBING FOR LOCATION.
6. FIRE JOCKEY PUMP: PROVIDE POWER TO PUMP VIA EMERGENCY POWER AS SPECIFIED.
7. FIRE CONTROL PANEL: PROVIDE CONDUIT BELOW GRADE TO CONTROL PANEL FROM SECONDARY SIDE OF UTILITY TRANSFORMER PER NEC. REFER TO ELECTRICAL RISER DIAGRAM.

07

09 1) Provide conduit below grade to control panel from secondary side of utility transformer. See attached ESK-001 and ESK-002.

# 1 PARTIAL FIRST FLOOR MECHANICAL POWER PLAN

1/8" = 1'-0"

2 NWACC HEALTH PROFESSIONS BUILDING BENTONVILLE, ARKANSAS

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PROJECT NO: 101074-00
ISSUE DATE: 07/19/11
CONTACT: M. OWINGS
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REVISION:
PARTIAL FIRST FLOOR MECHANICAL POWER PLAN
ADDENDUM NUMBER 2
E-107

EAD-04

REGISTERED PROFESSIONAL ENGINEER — ERIC MICHAEL HAYWARD — No. 13427 — 7/19/2011

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155 DSS-5 UP STAIR 135

AIRLOCK 134 — LOBBY 125 — MULTI-PURPOSE LAB R108 — AUTOMOBILE RESCUE DEMO R109 — CONFERENCE/ EMERGENCY RESPONSE R107 — SECURITY R104 — STOR R103 — SINK R102 — CORRIDOR 138 — STORAGE 176 — TOILET 189 — STORAGE R105 — MULTI-PURPOSE LAB R108 — CORRIDOR R106 — FIRE PUMP 136 — OXYGEN CONTROL PANEL — BIO HAZ 137 — RECEIVING 139 — MED AIR COMP. — VAC PUMP — SPRINKLER/ DOM WATER/ PUMPS 149 — CNA/ PCA/ STORAGE PREP 140 — TREATMENT 197 — SL BREAKOUT 2 159 — SIMULATION LAB CNA/ PCA 141 — SL BREAKOUT 3 160 — SL BREAKOUT 4 161 — MSB 6 — XFMR — DSCU-6 — STAIR 142 — DSS-6

SNA OFFICE 132 — ADJUNCT #2 130 — OFFICE 16 128 — OFFICE 15 133 — OFFICE 14 124 — OFFICE #13 129 — OFFICE #12 123 — AIRLOCK 122 — CORRIDOR 121

WOMEN 193 — MEN 194 — ELECTRICAL 155 — H.J. CLASSROOM #1 131 — H.I. CLASSROOM #2 127

NURSING CLASSROOM #1 144 — NURSING CLASSROOM #2 145 — NURSING CLASSROOM #3 146 — NURSING SIMULATIONS LAB #1 152 — NURSING SIMULATIONS LAB #2 153

SIM #1 157 — CTRL 156 — SIM #2 158 — ELEC 185 — SHOWER 151 — I.T. 187 — JANITOR 189 — CORR 195 — WOMEN'S 147 — MEN'S 148 — AIRLOCK 101

OFFICE #11 120 — OFFICE #10 119 — OFFICE #9 117 — CONFERENCE 116 — CORRIDOR 118 — OFFICE #7 115 — CLST 191 — FILES 192 — SECURE FILE STORAGE 183 — OFFICE #6 114 — TOILET 190 — CORRIDOR 110 — WORK ROOM 186 — REF — BREAK ROOM 184 — OFFICE #5 113 — OFFICE #4 112 — OFFICE #3 111 — OFFICE #2 109 — OFFICE #1 108 — NURSING CLASSROOM #4 188 — CORRIDOR 143 — STAIR 107 — DSS-4 — DSCU-4 — WORK ROOM 106 — VENDING 175 — ADMIN #1 103 — ADMIN #2 104 — ELEV 105 — LOBBY/ STUDENT GATHERING 102 — 178

AT-31 — 120

1 FIRST FLOOR MECHANICAL POWER PLAN

1/8" = 1'-0"

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**Rogers Division**
As-Built Construction
By: JD Hammett, AC
Date: 02/11/2013

# Addendum
# Approved COR
# RFI

NORTHWEST ARKANSAS COMMUNITY COLLEGE 1989

# NWACC HEALTH PROFESSIONS BUILDING

BENTONVILLE, ARKANSAS

Key Plan

| No. | Description | Date |
|---|---|---|
| 1 | Addendum 2 | 07/19/11 |
| 2 | FIRE PUMP CHANGES | 11/09/11 |
| 3 | DPS REDESIGN | 03/23/12 |

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REGISTERED PROFESSIONAL ENGINEER — ERIC MICHAEL HAYWARD — No. 13427 — 3/23/2012

FIRST FLOOR MECHANICAL POWER PLAN

E-107

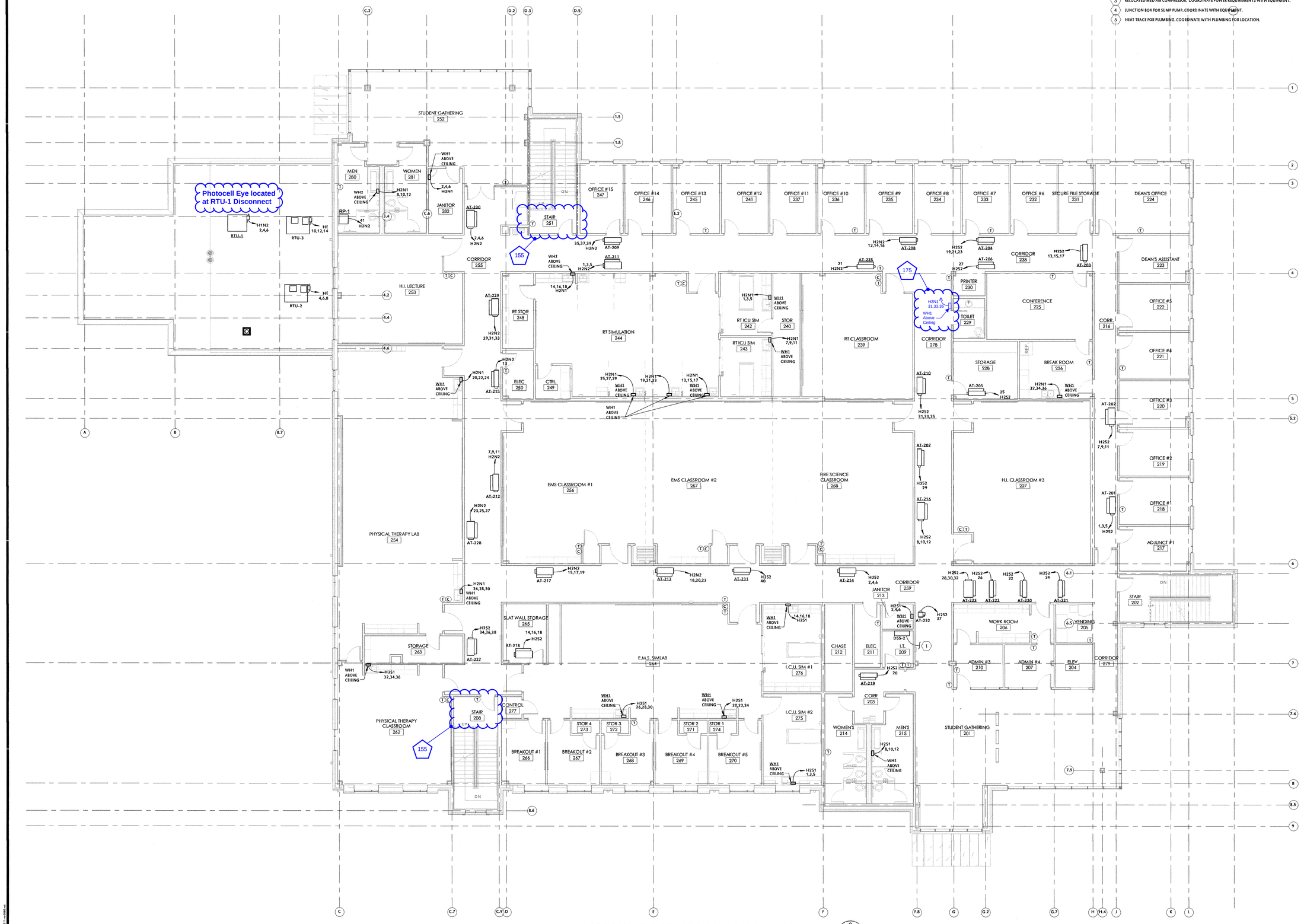
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## GENERAL NOTES

1. DISCONNECTS PROVIDED BY MANUFACTURER UNLESS OTHERWISE NOTED.

## KEYED NOTES

1. INSIDE DUCTLESS SPLIT UNIT POWERED AND CONTROLLED BY CORRESPONDING OUTSIDE CONDENSING UNIT.
2. RELOCATED MEDICAL VACUUM PUMP. COORDINATE POWER REQUIREMENTS WITH EQUIPMENT
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4. JUNCTION BOX FOR SUMP PUMP. COORDINATE WITH EQUIPMENT.
5. HEAT TRACE FOR PLUMBING. COORDINATE WITH PLUMBING FOR LOCATION.




1 SECOND FLOOR MECHANICAL POWER PLAN

1/8" = 1'-0"


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# NWACC HEALTH PROFESSIONS BUILDING

BENTONVILLE, ARKANSAS

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SECOND FLOOR MECHANICAL POWER PLAN

E-108

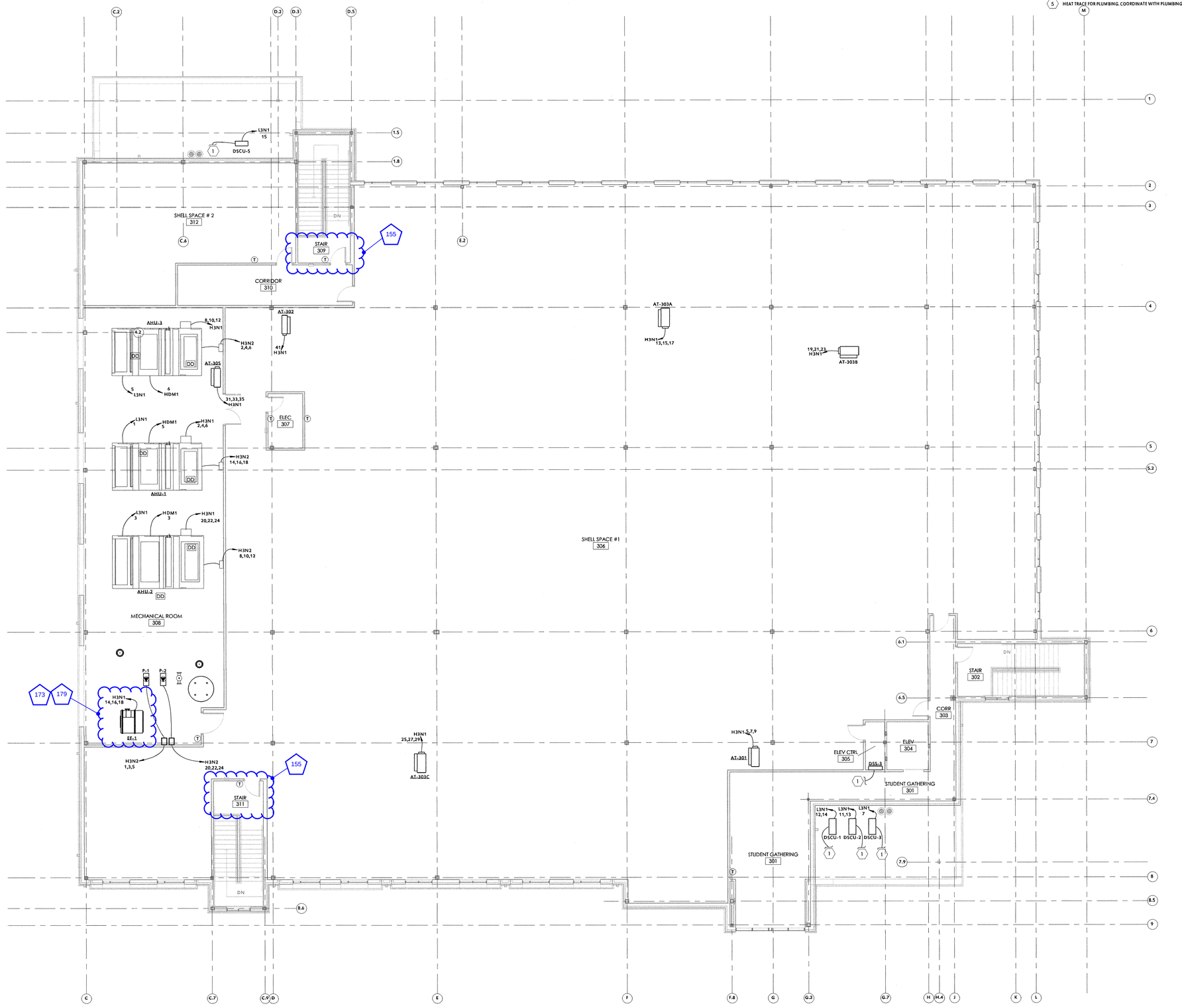

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## GENERAL NOTES

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## 1 THIRD FLOOR MECHANICAL POWER PLAN

1/8" = 1'-0"


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# NWACC HEALTH PROFESSIONS BUILDING

BENTONVILLE, ARKANSAS

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STATE OF ARKANSAS — REGISTERED PROFESSIONAL ENGINEER — No. 13427 — ERIC MICHAEL HAYWARD


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THIRD FLOOR MECHANICAL POWER PLAN

**E-109**


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2 Item 13) ***Clarification*** RE: E-110 through E112, Keyed note # 10. The mass notification message boards are to be provided by the Owner. No specification for the message boards is included in the Contract for construction.

Item 18) ***Revision*** RE: Attached E-110 through E-113 for revisions to special systems plans (1st through 3rd floor).

## DATA LABELING NOTES

PER OWNER WRITTEN REQUIREMENTS:

DROP ORIENTATION
DROPS TO BE DONE IN CLOCKWISE DIRECTION IN BUILDING STARTING WITH EXTERIOR ROOMS AND THEN INTERIOR ROOMS.

AT PATCH PANELS
EACH PATCH PANEL WILL BE LABELED A,B,C WITH NO NEED TO CHANGE THE PORT NUMBER. ON THE RACK NEXT TO THE PATCH PANEL, THERE SHOULD BE A LABEL OF A, STARTING WITH THE TOP PATCH PANEL, B FOR THE SECOND AND SO ON.

AT WALL PLATES
PLATE TO BE LABELED WITH WIRING CLOSET NUMBER FOLLOWED BY A SPACE THEN BACK NUMBER. IF THERE IS MORE THAN ONE RACK IN THE CLOSET, IT'S TO BE FOLLOWED BY THE PATCH PANEL LETTER, SPACE, PORT NUMBER. IE: 102 1 A 1 FOR ROOM 102, RACK 1, PANEL A, PORT 1

## ACCESS CONTROL NOTES

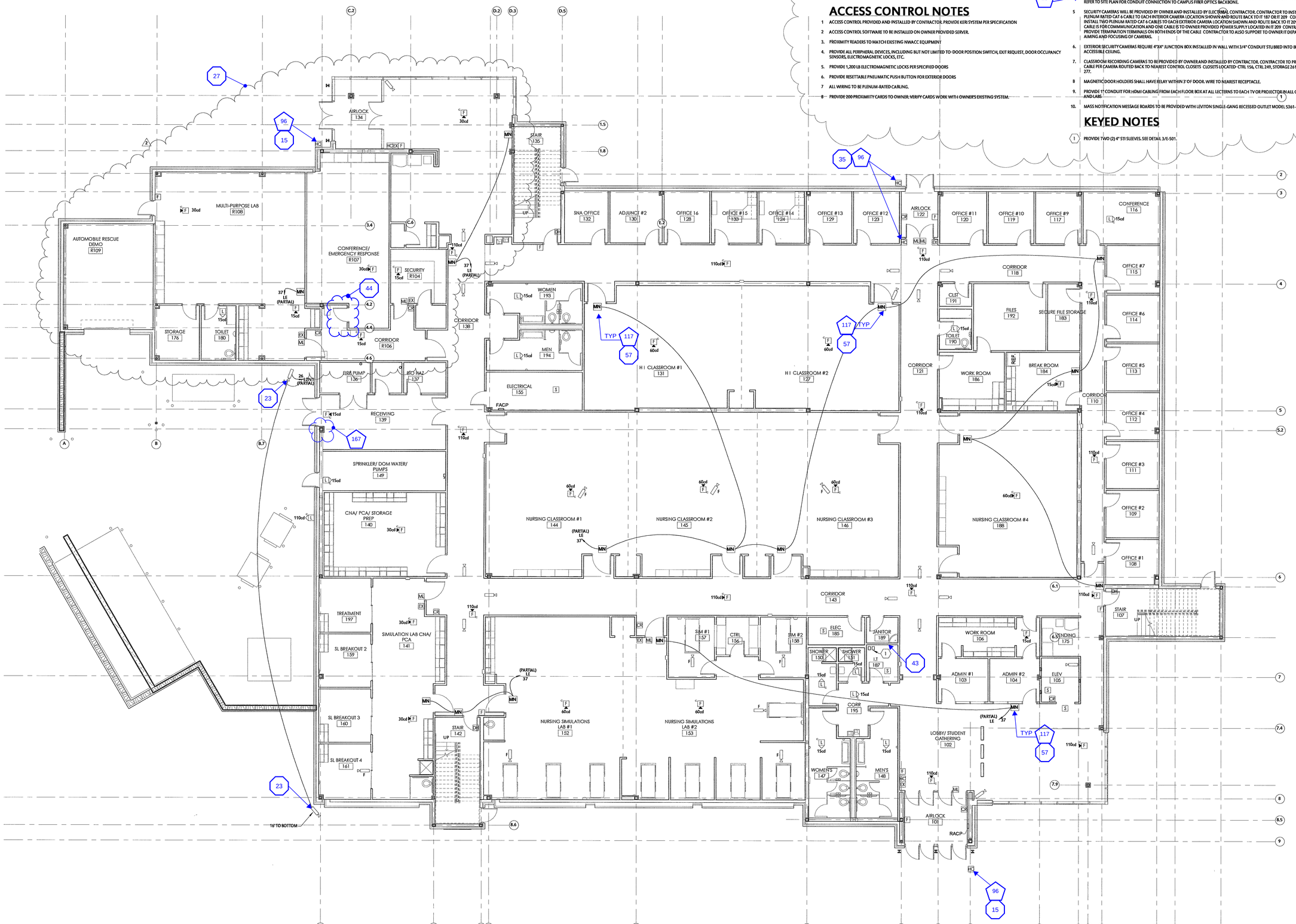
1 ACCESS CONTROL PROVIDED AND INSTALLED BY CONTRACTOR. PROVIDE KERI SYSTEM PER SPECIFICATION
2 ACCESS CONTROL SOFTWARE TO BE INSTALLED ON OWNER PROVIDED SERVER.
3. PROXIMITY READERS TO MATCH EXISTING NWACC EQUIPMENT
4. PROVIDE ALL PERIPHERAL DEVICES, INCLUDING BUT NOT LIMITED TO- DOOR POSITION SWITCH, EXIT REQUEST, DOOR OCCUPANCY SENSORS, ELECTROMAGNETIC LOCKS, ETC.
5. PROVIDE 1,200 LB ELECTROMAGNETIC LOCKS PER SPECIFIED DOORS
6. PROVIDE RESETTABLE PNEUMATIC PUSH BUTTON FOR EXTERIOR DOORS
7 ALL WIRING TO BE PLENUM-RATED CABLING.
8 PROVIDE 200 PROXIMITY CARDS TO OWNER. VERIFY CARDS WORK WITH OWNER'S EXISTING SYSTEM.

## GENERAL NOTES

1. INSTALL OWNER PROVIDED RACK PER EACH DATA CLOSET: IT 187 AND IT 209 PROVIDE IN EACH RACK: SIX 48 PORT CAT 6 PUNCH DOWN PATCH PANELS, NETKEY MODEL #NK6PPG48Y IN DATA RACK IN IT 187, PROVIDE ONE PANDUIT OPTICOM FIBER OPTIC ADAPTER PANEL SPLICE MODULE WITH LC CONNECTORS AND ENCLOSURE.
2. INSTALL TWO SETS OF 4" J-HOOK CABLE SUPPORT SYSTEMS RUNNING ALONG ONE SIDE OF EVERY HALLWAY DATA WIRING TO BE RAN IN INDIVIDUAL J-HOOKS AND IS NOT TO SHARE WITH OTHER LOW VOLTAGE CABLING
3 INSTALL STI EZ-PATH SERIES 33 PATHWAYS IN EVERY IT ROOM WITH TWO THROUGH THE WALL INTO THE CORRIDOR AND TWO THROUGH THE FLOOR TO THE IT ROOM ABOVE COORDINATE WITH DETAIL ON E-501
4. INSTALL TWO SETS OF 12 STRAND, SINGLE MODE, PANDUIT OPTICOM OUTSIDE PLANTS (OSP) GRADE FIBER OPTICS FROM DATA CLOSET 187 TO ADDITIONAL CAMPUS BUILDING IT CLOSETS ONE SET OF FIBER TO BE RAN BACK TO PARKING GARAGE IT CLOSET (2ND FLOOR NW CORNER) AND THE OTHER SET TO MAIN IT CLOSET LOCATED IN BURNS HALL (ROOM 141.13), PROVIDING REDUNDANT FEEDS. PROVIDE NEW PANDUIT OPTICOM TYP LC CONNECTOR FIBER OPTIC ADAPTER PANEL SPLICE MODULE AT EACH SITE FOR NEW FIBER CONNECTION. REFER TO SITE PLAN FOR CONDUIT CONNECTION TO CAMPUS FIBER OPTICS BACKBONE.
5 SECURITY CAMERAS WILL BE PROVIDED BY OWNER AND INSTALLED BY ELECTRICAL CONTRACTOR. CONTRACTOR TO INSTALL ONE PLENUM RATED CAT 6 CABLE TO EACH INTERIOR CAMERA LOCATION SHOWN AND ROUTE BACK TO IT 187 OR IT 209 CONTRACTOR TO INSTALL TWO PLENUM RATED CAT 6 CABLES TO EACH EXTERIOR CAMERA LOCATION SHOWN AND ROUTE BACK TO IT 209 ONE EXTERIOR CABLE IS FOR COMMUNICATION AND ONE CABLE IS TO OWNER PROVIDED POWER SUPPLY LOCATED IN IT 209 CONTRACTOR TO PROVIDE TERMINATION TERMINALS ON BOTH ENDS OF THE CABLE CONTRACTOR TO ALSO SUPPORT TO OWNER IT DEPARTMENT IN AIMING AND FOCUSING OF CAMERAS.
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7. CLASSROOM RECORDING CAMERAS TO BE PROVIDED BY OWNER AND INSTALLED BY CONTRACTOR. CONTRACTOR TO PROVIDE CAT 6 CABLE PER CAMERA ROUTED BACK TO NEAREST CONTROL CLOSETS CLOSETS LOCATED- CTRL 156, CTRL 249, STORAGE 261 AND CONTROL 277.
8 MAGNETIC DOOR HOLDERS SHALL HAVE RELAY WITHIN 3' OF DOOR. WIRE TO NEAREST RECEPTACLE.
9. PROVIDE 1" CONDUIT FOR HDMI CABLING FROM EACH FLOOR BOX AT ALL LECTERNS TO EACH TV OR PROJECTOR IN ALL CLASSROOMS AND LABS
10. MASS NOTIFICATION MESSAGE BOARDS TO BE PROVIDED WITH LEVITON SINGLE-GANG RECESSED OUTLET MODEL 5361-OCH AT 89" AFF.

## KEYED NOTES

1 PROVIDE TWO (2) 4" STI SLEEVES. SEE DETAIL 3/E-501.




1 FIRST FLOOR SPECIAL SYSTEMS PLAN
1/8" = 1'-0"


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CERTIFICATE OF AUTHORIZATION.

CRAFTON, TULL, SPARKS & ASSOCIATES, INC No. 109

**Nabholz Construction**
**Rogers Division**
As-Built Construction
By: JD Hammett, AC
Date: 02/11/2013

# Addendum
# Approved COR
# RFI

NORTHWEST ARKANSAS COMMUNITY COLLEGE · 1989 ·

# NWACC HEALTH PROFESSIONS BUILDING

BENTONVILLE, ARKANSAS

Key Plan

| No. | Description | Date |
|---|---|---|
| 1 | Addendum 2 | 07/19/11 |
| 2 | DPS REDESIGN | 03/23/12 |


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PROJECT NO: 101074-00
ISSUE DATE: 06/17/11
CONTACT: M. OWINGS
CHECKED BY:

CONSTRUCTION BID SET

ARKANSAS REGISTERED PROFESSIONAL ENGINEER No. 13427 3/3/2014 ERIC MICHAEL HAWARD


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FIRST FLOOR SPECIAL SYSTEMS PLAN

E-110


3/20/2013 2:17:21 PM
C:\Users\ac\Desktop\Revit\NWACC-HBP-2011-Central_ac43d.rvt

2 Item 13) ***Clarification*** RE: E-110 through E112, Keyed note # 10. The mass notification message boards are to be provided by the Owner. No specification for the message boards is included in the Contract for construction.

Item 18) ***Revision*** RE: Attached E-110 through E-113 for revisions to special systems plans (1st through 3rd floor).

## DATA LABELING NOTES

PER OWNER WRITTEN REQUIREMENTS:

DROP ORIENTATION
DROPS TO BE DONE IN CLOCKWISE DIRECTION IN BUILDING STARTING WITH EXTERIOR ROOMS AND THEN INTERIOR ROOMS.

AT PATCH PANELS
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AT WALL PLATES
PLATE TO BE LABELED WITH WIRING CLOSET NUMBER FOLLOWED BY A SPACE THEN RACK NUMBER. IF THERE IS MORE THAN ONE RACK IN THE CLOSET, IT'S TO BE FOLLOWED BY THE PATCH PANEL LETTER, SPACE, PORT NUMBER. IE: 102 1 A 1 FOR ROOM 102, RACK 1, PANEL A, PORT 1.

## ACCESS CONTROL NOTES

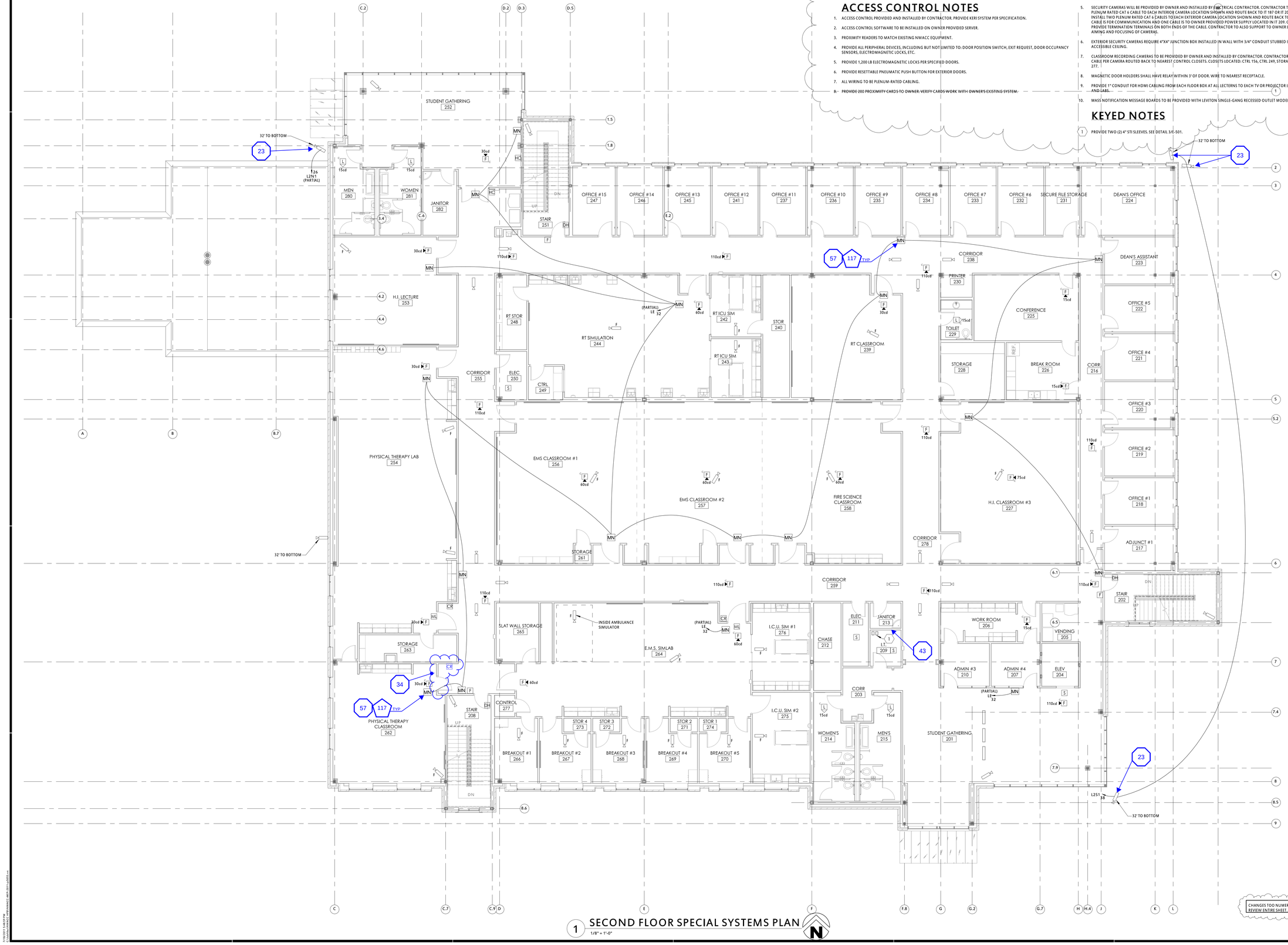
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2. ACCESS CONTROL SOFTWARE TO BE INSTALLED ON OWNER PROVIDED SERVER.
3. PROXIMITY READERS TO MATCH EXISTING NWACC EQUIPMENT.
4. PROVIDE ALL PERIPHERAL DEVICES, INCLUDING BUT NOT LIMITED TO: DOOR POSITION SWITCH, EXIT REQUEST, DOOR OCCUPANCY SENSORS, ELECTROMAGNETIC LOCKS, ETC.
5. PROVIDE 1,200 LB ELECTROMAGNETIC LOCKS PER SPECIFIED DOORS.
6. PROVIDE RESETTABLE PNEUMATIC PUSH BUTTON FOR EXTERIOR DOORS.
7. ALL WIRING TO BE PLENUM-RATED CABLING.
8. PROVIDE 200 PROXIMITY CARDS TO OWNER. VERIFY CARDS WORK WITH OWNER'S EXISTING SYSTEM.

## GENERAL NOTES

1. INSTALL OWNER PROVIDED RACK PER EACH DATA CLOSET: IT 187 AND IT 209. PROVIDE IN EACH RACK: SIX 48 PORT CAT 6 PUNCH DOWN PATCH PANELS, NETKEY MODEL #NK6PPG48Y. IN DATA RACK IN IT 187, PROVIDE ONE PANDUIT OPTICOM FIBER OPTIC ADAPTER PANEL SPLICE MODULE WITH LC CONNECTORS AND ENCLOSURE.
2. INSTALL TWO SETS OF 4" J-HOOK CABLE SUPPORT SYSTEMS RUNNING ALONG ONE SIDE OF EVERY HALLWAY. DATA WIRING TO BE RAN IN INDIVIDUAL J-HOOK AND IS NOT TO SHARE WITH OTHER LOW VOLTAGE CABLING.
3. INSTALL STEEZ-PATH SERIES 33 PATHWAYS IN EVERY IT ROOM WITH TWO THROUGH THE WALL INTO THE CORRIDOR AND TWO THROUGH THE FLOOR TO THE IT ROOM ABOVE. COORDINATE WITH DETAIL ON E-501.
4. INSTALL TWO SETS OF 12 STRAND, SINGLE MODE, PANDUIT OPTICOM OUTSIDE PLANTS (OSP) GRADE FIBER OPTICS FROM DATA CLOSET 187 TO ADDITIONAL CAMPUS BUILDING IT CLOSETS. ONE SET OF FIBER TO BE RAN BACK TO PARKING GARAGE IT CLOSET (2ND FLOOR NW CORNER) AND THE OTHER SET TO MAIN IT CLOSET LOCATED IN BURNS HALL (ROOM 1141.13), PROVIDING REDUNDANT FEEDS. PROVIDE NEW PANDUIT OPTICOM TYP LC CONNECTOR FIBER OPTIC ADAPTER PANEL SPLICE MODULE AT EACH SITE FOR NEW FIBER CONNECTION. REFER TO SITE PLAN FOR CONDUIT CONNECTION TO CAMPUS FIBER OPTICS BACKBONE.
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## KEYED NOTES

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1 SECOND FLOOR SPECIAL SYSTEMS PLAN
1/8" = 1'-0"

CHANGES TOO NUMEROUS TO CLOUD, REVIEW ENTIRE SHEET. 1


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**Nabholz Construction**
**Rogers Division**
As-Built Construction
By: JD Hammett, AC
Date: 02/11/2013

1 Addendum
1 Approved COR
1 RFI

NORTHWEST ARKANSAS COMMUNITY COLLEGE • 1989 •

# NWACC HEALTH PROFESSIONS BUILDING

BENTONVILLE, ARKANSAS

Key Plan

| No. | Description | Date |
|---|---|---|
| 1 | Addendum 2 | 07/19/11 |


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PROJECT NO: 10107-00
ISSUE DATE: 07/19/11
CONTACT: M. OWINGS
CHECKED BY:

CONSTRUCTION BID SET

ARKANSAS REGISTERED PROFESSIONAL ENGINEER No.13427 MICHAEL HAWARD


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SECOND FLOOR SPECIAL SYSTEMS PLAN

E-111

7/19/2011 1:48:57 PM
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Item 13) ***Clarification*** RE: E-110 through E112, Keyed note # 10. The mass notification message boards are to be provided by the Owner. No specification for the message boards is included in the Contract for construction.

Item 18) ***Revision*** RE: Attached E-110 through E-113 for revisions to special systems plans (1st through 3rd floor).

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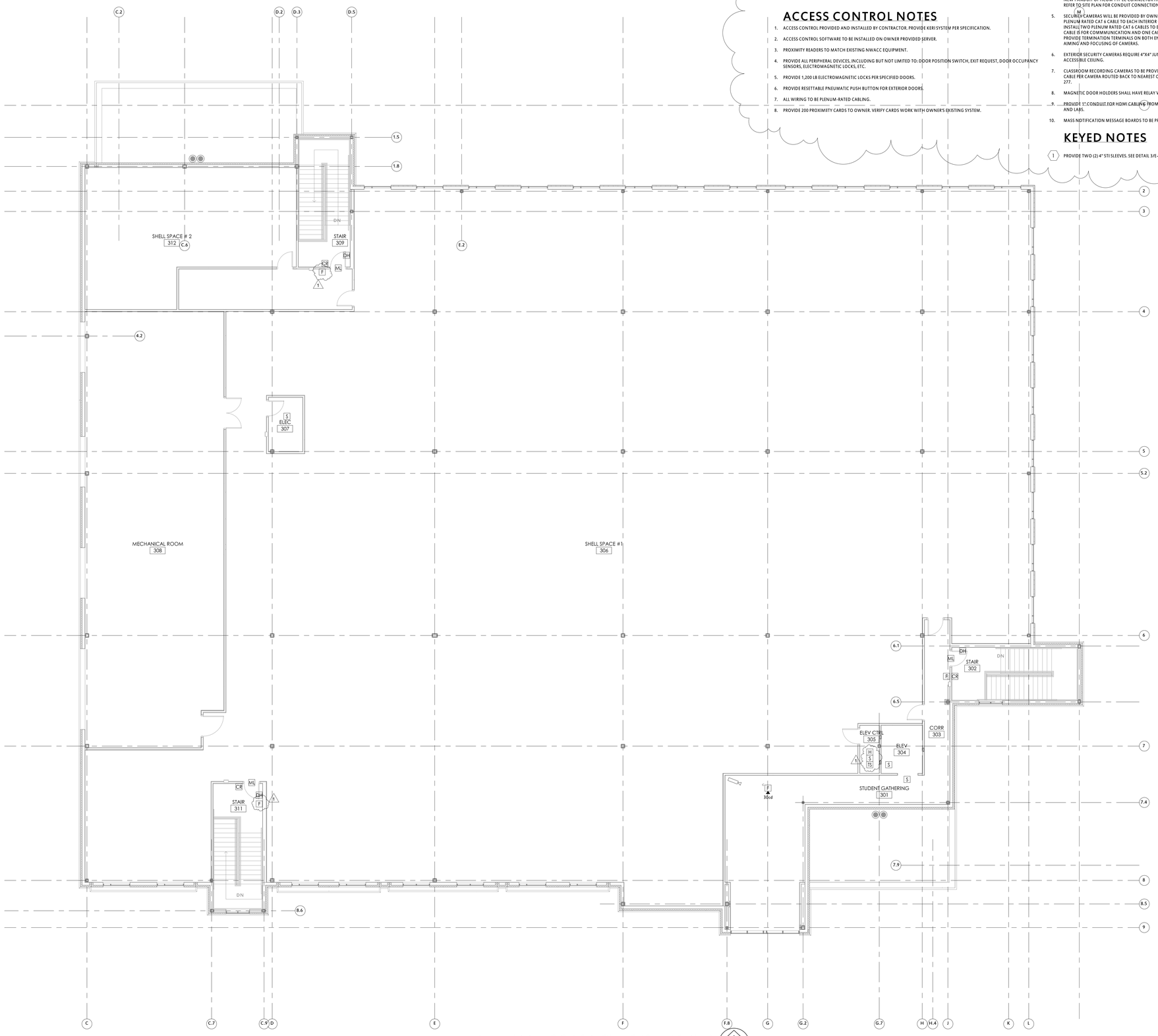
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## KEYED NOTES

1. PROVIDE TWO (2) 4" STI SLEEVES. SEE DETAIL 3/E-501.




1 THIRD FLOOR SPECIAL SYSTEMS PLAN
1/8" = 1'-0"


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CRAFTON, TULL, SPARKS & ASSOCIATES, INC. No. 109

**Nabholz Construction**
**Rogers Division**
As-Built Construction
By: JD Hammett, AC
Date: 02/11/2013

△ # Addendum
⬡ # Approved COR
⬠ # RFI

NORTHWEST ARKANSAS COMMUNITY COLLEGE • 1989 •

# NWACC HEALTH PROFESSIONS BUILDING

BENTONVILLE, ARKANSAS

Key Plan

| No. | Description | Date |
|---|---|---|
| 1 | Addendum 2 | 07/19/11 |


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PROJECT NO: 101074-00
ISSUE DATE: 07/19/11
CONTACT: M. OWINGS
CHECKED BY:

CONSTRUCTION BID SET

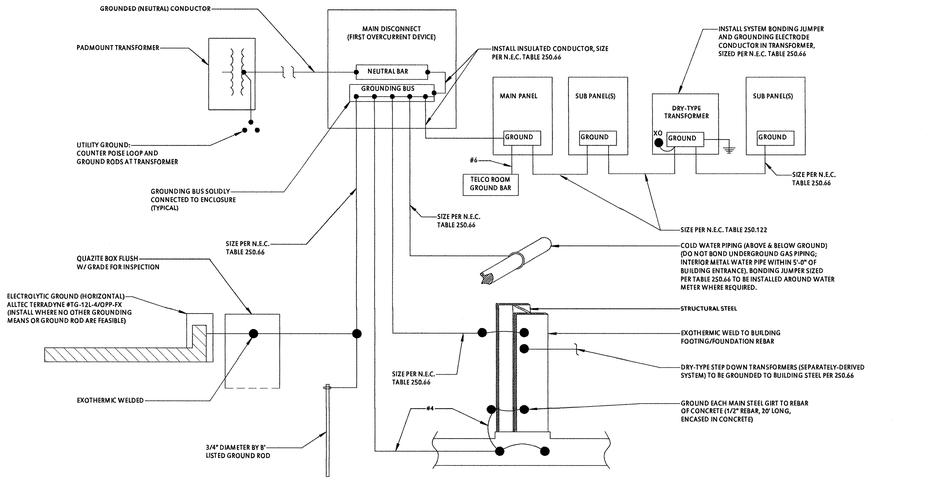
ARKANSAS REGISTERED PROFESSIONAL ENGINEER 7/19/2011 No. 13427 MICHAEL HAYWARD


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THIRD FLOOR SPECIAL SYSTEMS PLAN

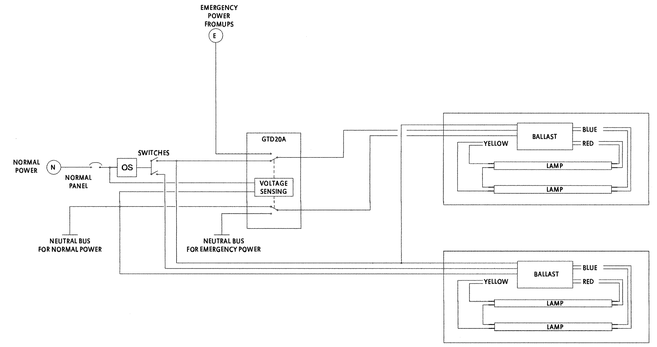
E-112


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NOTE: BOND ALL STRUCTURAL STEEL AND INTERIOR METALLIC PIPING, INCLUDING BUT NOT LIMITED TO GAS PIPING AND FIRE SPRINKLER PIPING, PER N.E.C. 250.104.

## 1 GROUNDING DIAGRAM - A
N.T.S.




## 2 EMERGENCY GTD WIRING DETAIL
N.T.S.




## GENERAL NOTES

1. PROVIDE FOUR (2) STI EZ-PATH SERIES 33 PATHWAY BETWEEN FLOORS FOR DATA RUNS.

## 3 COMMUNICATIONS RISER
N.T.S.




## 4 POLE RECEPTACLE
N.T.S.




### DEFINITIONS

- C1 — RESTROOM #1 LIGHTING CONTACTOR COIL.
- MD1 — RESTROOM #1 LIGHTING CONTACTOR DRY CONTACT.
- EF — EXHAUST FAN MOTOR.
- L — LIGHTING FIXTURE(S).
- OL — FUSED DISCONNECT.
- $ — LIGHT SWITCH.

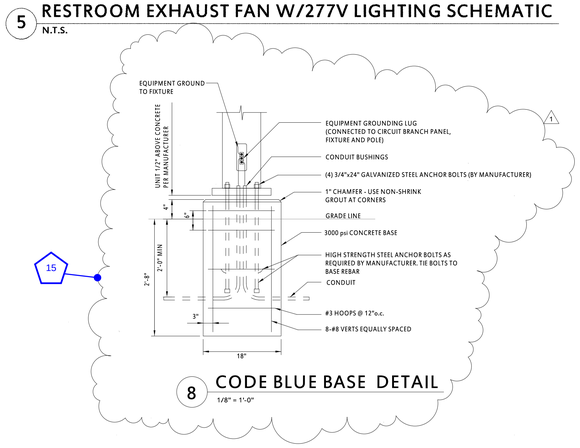
### OPERATIONAL DESCRIPTION

TURNING ON LIGHTING IN RESTROOM WILL APPLY POWER TO EXHAUST FAN MOTOR.

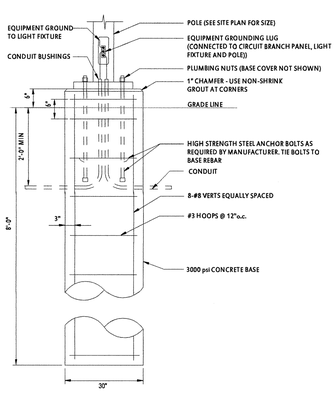
### CONTACT DEVELOPMENT

| | CONTACT # | N/O N/C | SERVES |
|---|---|---|---|
| CONTACTOR C1 | 1 | | L |
| | 2 | | EF |

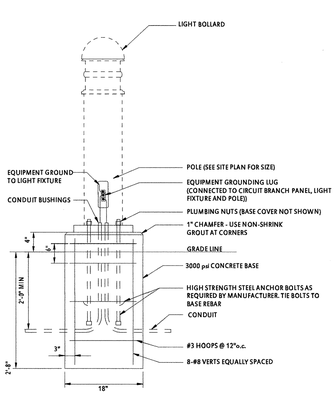
## 5 RESTROOM EXHAUST FAN W/277V LIGHTING SCHEMATIC
N.T.S.




## 8 CODE BLUE BASE DETAIL
1/8" = 1'-0"




## 6 AREA LIGHT BASE - SHORT
N.T.S.




## 7 TYPICAL BOLLARD LIGHT BASE
N.T.S.

2 Item 15) ***Addition*** RE: Attached EAD-05, for base detail for site emergency phone pylon.


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# NWACC HEALTH PROFESSIONS BUILDING
BENTONVILLE, ARKANSAS

Key Plan

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PROJECT NO: 101074-00
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ELECTRICAL DETAILS

E-501

2 NWACC HEALTH PROFESSIONS BUILDING BENTONVILLE, ARKANSAS

Crafton Tull

CODE BLUE BASE DETAIL ADDENDUM NUMBER 2
E-501
EAD-05

7/18/2011 5:53:33 PM

Addendum
Approved COR
RFI

Item 19) ***Revision*** RE: Attached E-601 through E-604 for revisions to electrical panels.

## MSB — MAIN SWITCHBOARD

| | | | | | |
|---|---|---|---|---|---|
| AMP RATING: | 2500 A | VOLTS: | 480/277 Wye | A.I.C. Rating: | 42 KAIC |
| MAIN TYPE: | MCB | PHASE: | 3 | SECTIONS: | MCB |
| ENCLOSURE: | NEMA 1 | WIRES: | 4 | | QED SWITCHBOARD |

| CKT | Circuit Description | FRAME SIZE | TRIP RATING | POLES | LOAD PHASE A | LOAD PHASE B | LOAD PHASE C | LOAD | WIRE SIZE | Remarks |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | HE | 400 A | 200 A | 3 | 144 A | 134 A | 125 A | 111595 VA | SEE RISER DIAGRAM | |
| 2 | HDM2 | 800 A | 800 A | 3 | 642 A | 644 A | 635 A | 532500 VA | SEE RISER DIAGRAM | |
| 3 | H1L | 400 A | 400 A | 3 | 68 A | 67 A | 75 A | 58160 VA | SEE RISER DIAGRAM | |
| 4 | HDM1 | 1200 A | 1200 A | 3 | 1033 A | 1018 A | 1018 A | 850647 VA | SEE RISER DIAGRAM | |
| 5 | HDP1 | 400 A | 400 A | 3 | 310 A | 285 A | 293 A | 245943 VA | SEE RISER DIAGRAM | |
| 6 | CHILLER | 600 A | 600 A | 3 | 162 A | 162 A | 162 A | 134345 VA | SEE RISER DIAGRAM | |
| 7 | Space | – | – | – | – | – | – | 0 VA | | – |
| 8 | Space | – | – | – | – | – | – | 0 VA | | – |
| 9 | Space | – | – | – | – | – | – | 0 VA | | – |
| 10 | Space | – | – | – | – | – | – | 0 VA | | – |
| 11 | Space | – | – | – | – | – | – | 0 VA | | – |
| 12 | Space | – | – | – | – | – | – | 0 VA | | – |
| 13 | Space | – | – | – | – | – | – | 0 VA | | – |
| 14 | Space | – | – | – | – | – | – | 0 VA | | – |
| 15 | Space | – | – | – | – | – | – | 0 VA | | – |
| 16 | Space | – | – | – | – | – | – | 0 VA | | – |
| 17 | Space | – | – | – | – | – | – | 0 VA | | – |
| 18 | Space | – | – | – | – | – | – | 0 VA | | – |
| 19 | Space | – | – | – | – | – | – | 0 VA | | – |
| 20 | Space | – | – | – | – | – | – | 0 VA | | – |
| | | | | TOTAL CONNECTED LOAD: | 2360 A | 2311 A | 2309 A | 1885 kVA | | |

TOTAL CONNECT AMPS: 2267 A DEMAND AMPS: 2144 A

| Load Classification | Connected Load | Demand Factor | Estimated Demand | Panel Totals | |
|---|---|---|---|---|---|
| HVAC | 134345 VA | 100 00% | 134345 VA | | |
| Other | 0 VA | 0 00% | 0 VA | Total Conn. Load: | 1884815 VA |
| Power | 20616 VA | 100 00% | 20616 VA | Total Est. Demand: | 1782725 VA |
| L | 70837 VA | 100 00% | 70837 VA | Total Conn. Current: | 2267 A |
| R | 214180 VA | 52 33% | 112090 VA | Total Est. Demand Current: | 2144 A |
| O | 558822 VA | 100 00% | 558822 VA | | |
| CL | 310300 VA | 100 00% | 310300 VA | | |
| HL | 575715 VA | 100 00% | 575715 VA | | |

## HDM1 — MAIN SWITCHBOARD

| | | | | | |
|---|---|---|---|---|---|
| AMP RATING: | 1200 A | VOLTS: | 480/277 Wye | A.I.C. Rating: | 42,000 AIC |
| MAIN TYPE: | MLO | PHASE: | 3 | SECTIONS: | MLO |
| ENCLOSURE: | Type 1 | WIRES: | 4 | TYPE: | I-LINE TYPE HCP |

| CKT | Circuit Description | FRAME SIZE | TRIP RATING | POLES | LOAD PHASE A | LOAD PHASE B | LOAD PHASE C | LOAD | WIRE SIZE | Remarks |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | H1N1 | 250 A | 250 A | 3 | 175 A | 162 A | 155 A | 136040 VA | SEE RISER DIAGRAM | |
| 2 | H2N1 | 400 A | 400 A | 3 | 367 A | 365 A | 361 A | 302875 VA | SEE RISER DIAGRAM | |
| 3 | AHU-2 HC | 250 A | 110 A | 3 | 87 A | 87 A | 87 A | 71965 VA | (3)#2, (1)#6 GROUND | |
| 4 | H31 | 400 A | 400 A | 3 | 240 A | 240 A | 251 A | 202818 VA | SEE RISER DIAGRAM | |
| 5 | AHU-1 HC | 250 A | 100 A | 3 | 78 A | 78 A | 78 A | 64984 VA | (3)#2, (1)#6 GROUND | |
| 6 | AHU-3 HC | 250 A | 110 A | 3 | 87 A | 87 A | 87 A | 71965 VA | (3)#2, (1)#6 GOUND | |
| 7 | Space | – | – | – | – | – | – | 0 VA | | – |
| 8 | Space | – | – | – | – | – | – | 0 VA | | – |
| 9 | Space | – | – | – | – | – | – | 0 VA | | – |
| 10 | Space | – | – | – | – | – | – | 0 VA | | – |
| 11 | Space | – | – | – | – | – | – | 0 VA | | – |
| 12 | Space | – | – | – | – | – | – | 0 VA | | – |
| 13 | Space | – | – | – | – | – | – | 0 VA | | – |
| 14 | Space | – | – | – | – | – | – | 0 VA | | – |
| 15 | Space | – | – | – | – | – | – | 0 VA | | – |
| 16 | Space | – | – | – | – | – | – | 0 VA | | – |
| 17 | Space | – | – | – | – | – | – | 0 VA | | – |
| 18 | Space | – | – | – | – | – | – | 0 VA | | – |
| 19 | Space | – | – | – | – | – | – | 0 VA | | – |
| 20 | Space | – | – | – | – | – | – | 0 VA | | – |
| | | | | TOTAL CONNECTED LOAD: | 1034 A | 1019 A | 1018 A | 848 kVA | | |

TOTAL CONNECT AMPS: 1020 A DEMAND AMPS: 1020 A

| Load Classification | Connected Load | Demand Factor | Estimated Demand | Panel Totals | |
|---|---|---|---|---|---|
| Other | 0 VA | 0 00% | 0 VA | | |
| O | 310902 VA | 100 00% | 310902 VA | Total Conn. Load: | 848147 VA |
| CL | 298330 VA | 100.00% | 298330 VA | Total Est. Demand: | 848147 VA |
| HL | 238915 VA | 100 00% | 238915 VA | Total Conn. Current: | 1020 A |
| | | | | Total Est. Demand Current: | 1020 A |

## H1L — ELECTRICAL PANEL

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| AMP | 400 A | VOLTS/PHASE: | 480/277 Wye/3 | SECTION(S): | 1 | A.I.C. Rating: | 42 KAIC |
| MAINS: | MLO | WIRE W/GRD.: | 4 | TYPE: | NF | MOUNTING: | Surface |
| MCB | | CIRCUIT: | 42 | BUS: | CU | NEMA: | Type 1 |

| Load | Load Name | Trip | Poles | Wire P&N | Wire Gnd | CCT # | A | A | B | B | C | C | CCT # | Wire Gnd | Wire P&N | Poles | Trip | Load Name | Load |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| L | H.1. CLSRMS 1,2/OFFICES/RSTRMS | 20 A | 1 | 12 | 12 | 1 | 3.48 | 1.81 | | | | | 2 | 12 | 12 | 1 | 20 A | S LOBBY/ADMIN/S RSTRMS/ELEC/IT | L |
| L | LOBBY CUSTOM LIGHT | 20 A | 1 | 12 | 12 | 3 | | | 0.28 | 4.10 | | | 4 | 12 | 12 | 1 | 20 A | OFFICES/NRS CLSRM 4/BREAK/FILES | L |
| L | NURSING CLSRMS 1,2,3/RCV/GAS | 20 A | 1 | 12 | 12 | 5 | | | | | 4.26 | 3.94 | 6 | 12 | 12 | 1 | 20 A | NURSING SIM LABS | L |
| -- | Spare | 20 A | 1 | | | 7 | 0.00 | 0.00 | | | | | 8 | | | 1 | 20 A | Spare | -- |
| L | NORTH HALLWAY LIGHTING | 20 A | 1 | 12 | 12 | 9 | | | 2.17 | 3.24 | | | 10 | 8 | 6 | 1 | 20 A | SITE - NORTH PARKING LOT LIGHTS | L |
| L | SOUTH HALLWAY LIGHTING | 20 A | 1 | 12 | 12 | 11 | | | | | 1.83 | 3.08 | 12 | 10 | 8 | 1 | 20 A | SITE - SOUTH PARKING LOT LIGHTS | L |
| -- | Spare | 20 A | 1 | | | 13 | 0.00 | 3.88 | | | | | 14 | 10 | 8 | 1 | 20 A | SITE - WALKWAY LIGHTING | L |
| -- | Spare | 20 A | 1 | | | 15 | | | 0.00 | 0.00 | | | 16 | | | 1 | 20 A | Spare | -- |
| -- | Spare | 20 A | 1 | | | 17 | | | | | 0 00 | 0.00 | 18 | | | 1 | 20 A | Spare | -- |
| -- | Space | -- | -- | | | 19 | 0.00 | 0.00 | | | | | 20 | | | 1 | 20 A | Spare | -- |
| -- | Space | -- | -- | | | 21 | | | 0.00 | 0.00 | | | 22 | | | -- | -- | Space | -- |
| -- | Space | -- | -- | | | 23 | | | | | 0.00 | 0.00 | 24 | | | -- | -- | Space | -- |
| -- | Space | -- | -- | | | 25 | 0.00 | 0.00 | | | | | 26 | | | -- | -- | Space | -- |
| -- | Space | -- | -- | | | 27 | | | 0.00 | 0.00 | | | 28 | | | -- | -- | Space | -- |
| -- | Space | -- | -- | | | 29 | | | | | 0.00 | 0.00 | 30 | | | -- | -- | Space | -- |
| -- | Space | -- | -- | | | 31 | 0.00 | 0.00 | | | | | 32 | | | -- | -- | Space | -- |
| -- | Space | -- | -- | | | 33 | | | 0.00 | 0.00 | | | 34 | | | -- | -- | Space | -- |
| -- | Space | -- | -- | | | 35 | | | | | 0.00 | 0.00 | 36 | | | -- | -- | Space | -- |
| Other | H2L | 100 A | 3 | 3 | 8 | 37 | 7.59 | 2.07 | | | | | 38 | 8 | 3 | 3 | 100 A | H3L | Other |
| -- | -- | -- | -- | 3 | -- | 39 | | | 7.80 | 1.04 | | | 40 | -- | -- | -- | -- | -- | -- |
| -- | -- | -- | -- | 3 | -- | 41 | | | | | 7.61 | 0.00 | 42 | -- | -- | -- | -- | -- | -- |
| | | | | | | Total Load: | 18.82 | | 18.62 kVA | | 20.72 | | | | | | | | |
| | | | | | | Total Amps: | 68 A | | 67 A | | 75 A | | | | | | | | |

| Category Load | Load W | Category Load | Load W |
|---|---|---|---|
| Lighting | 47965 VA | Heating | |
| Receptacles | | Cooling | |
| Motors | | Misc. Equipment | |
| Kitchen | | | |

| Panel Totals | |
|---|---|
| Total Conn. Load: | 47965 VA |
| Total Est. Demand: | 47965 W |
| Total Conn. Current: | 58 A |
| Total Est. Demand | 58 A |

Notes:

## HE — ELECTRICAL PANEL

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| AMP | 200 A | VOLTS/PHASE: | 480/277 Wye/3 | SECTION(S): | 1 | A.I.C. Rating: | 42 KAIC |
| MAINS: | MLO | WIRE W/GRD.: | 4 | TYPE: | | MOUNTING: | Surface |
| MCB | | CIRCUIT: | 42 | BUS: | CU | NEMA: | Type 1 |

| Load | Circuit Description | Trip | Poles | Wire P&N | Wire Gnd | CCT # | A | A | B | B | C | C | CCT # | Wire Gnd | Wire P&N | Poles | Trip | Circuit Description | Load |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| L | EMERG LIGHTS - 1ST FLR CLSRMS | 20 A | 1 | 12 | 12 | 1 | 1.12 | 3.30 | | | | | 2 | | | 1 | 20 A | EUH-1 - RM R109 | HL |
| L | EMERG LIGHTS - 2ND FLR CLSRMS | 20 A | 1 | 12 | 12 | 3 | | | 1.33 | 11.0 | | | 4 | 10 | 8 | 3 | 50 A | RTU-2 | HL |
| L | EMERG LIGHTS - 3RD FLOOR | 20 A | 1 | 12 | 12 | 5 | | | | | 0.21 | 11.0 | 6 | -- | 8 | -- | -- | -- | -- |
| L | EAST STAIRWAY LIGHTING | 20 A | 1 | 12 | 12 | 7 | 0.57 | 11.0 | | | | | 8 | -- | 8 | -- | -- | -- | -- |
| L | SOUTH STAIRWAY LIGHTING | 20 A | 1 | 12 | 12 | 9 | | | 0.56 | 14.0 | | | 10 | 10 | 8 | 3 | 70 A | RTU-3 | HL |
| L | NORTH STAIRWAY LIGHTING | 20 A | 1 | 12 | 12 | 11 | | | | | 0.56 | 14.0 | 12 | -- | 8 | -- | -- | -- | -- |
| L | LIGHTS - MECH 308 AND ELEC 307 | 20 A | 1 | 12 | 12 | 13 | 1.09 | 14.0 | | | | | 14 | -- | 8 | -- | -- | -- | -- |
| L | HALLWAY EMERGENCY LIGHTING | 20 A | 1 | 12 | 12 | 15 | | | 1.17 | 1.24 | | | 16 | 12 | 12 | 1 | 20 A | EMERG LIGHTS - 2ND FLOOR | L |
| L | LIGHTS - PUBLIC SAFETY AREA | 20 A | 1 | 12 | 12 | 17 | | | | | 3.31 | 0.32 | 18 | 12 | 12 | 1 | 20 A | LIGHTS - SOUTH ELECTRICAL ROOMS | L |
| L | SITE - EMERGENCY PHONE PEDESTAL | 20 A | 1 | 10 | 10 | 19 | 1.00 | 1.33 | | | | | 20 | 12 | 12 | 3 | 20 A | FIRE PUMP JOCKEY PUMP | O |
| L | LIGHTS - EXTERIOR EGRESS | 20 A | 1 | 12 | 12 | 21 | | | 1.99 | 1.33 | | | 22 | -- | 12 | -- | -- | -- | -- |
| -- | Spare | 20 A | 1 | | | 23 | | | | | 0.00 | 1.33 | 24 | -- | 12 | -- | -- | -- | -- |
| -- | Spare | 20 A | 1 | | | 25 | 0.00 | 0.00 | | | | | 26 | | | -- | -- | Space | -- |
| -- | Spare | 20 A | 1 | | | 27 | | | 0.00 | 0.00 | | | 28 | | | -- | -- | Space | -- |
| -- | Space | -- | -- | | | 29 | | | | | 0.00 | 0.00 | 30 | | | -- | -- | Space | -- |
| -- | Space | -- | -- | | | 31 | 0.00 | 0.00 | | | | | 32 | | | -- | -- | Space | -- |
| -- | Space | -- | -- | | | 33 | | | 0.00 | 0.00 | | | 34 | | | -- | -- | Space | -- |
| -- | Space | -- | -- | | | 35 | | | | | 0.00 | 0.00 | 36 | | | -- | -- | Space | -- |
| Powe | TE | 70 A | 3 | 4 | 8 | 37 | 6.43 | 0 00 | | | | | 38 | | | -- | -- | Space | -- |
| -- | -- | -- | -- | 4 | -- | 39 | | | 4.45 | 0.00 | | | 40 | | | -- | -- | Space | -- |
| -- | -- | -- | -- | 4 | -- | 41 | | | | | 3.96 | 0.00 | 42 | | | -- | -- | Space | -- |
| | | | | | | Total Load: | 39.83 | | 37.07 kVA | | 34.70 | | | | | | | | |
| | | | | | | Total Amps: | 144 A | | 134 A | | 125 A | | | | | | | | |

| Category Load | Load W | Category Load | Load W |
|---|---|---|---|
| Lighting | 14170 VA | Heating | 78300 VA |
| Receptacles | 12420 VA | Cooling | 105 VA |
| Motors | | Misc. Equipment | |
| Kitchen | | | |

| Panel Totals | |
|---|---|
| Total Conn. Load: | 104995 VA |
| Total Est. Demand: | 103680 W |
| Total Conn. Current: | 126 A |
| Total Est. Demand | 125 A |

Notes:

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## HDM2 — MAIN SWITCHBOARD

| | | | | | |
|---|---|---|---|---|---|
| AMP RATING: | 800 A | VOLTS: | 480/277 Wye | A.I.C. Rating: | 42 KAIC |
| MAIN TYPE: | MLO | PHASE: | 3 | SECTIONS: | MLO |
| ENCLOSURE: | Type 1 | WIRES: | 4 | TYPE: | I-LINE TYPE HCP |

| CKT | Circuit Description | FRAME SIZE | TRIP RATING | POLES | LOAD PHASE A | LOAD PHASE B | LOAD PHASE C | LOAD | WIRE SIZE | Remarks |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | H1S1 | 400 A | 400 A | 3 | 310 A | 312 A | 303 A | 256000 VA | SEE RISER DIAGRAM | |
| 2 | H2S1 | 400 A | 400 A | 3 | 299 A | 299 A | 299 A | 248500 VA | SEE RISER DIAGRAM | |
| 3 | ELEVATOR DISCONNECT | 100 A | 50 A | 3 | 34 A | 34 A | 34 A | 28000 VA | SEE RISER DIAGRAM | SHUNT TRIP BREAKER |
| 4 | Space | – | – | – | – | – | – | 0 VA | | – |
| 5 | Space | – | – | – | – | – | – | 0 VA | | – |
| 6 | Space | – | – | – | – | – | – | 0 VA | | – |
| 7 | Space | – | – | – | – | – | – | 0 VA | | – |
| 8 | Space | – | – | – | – | – | – | 0 VA | | – |
| 9 | Space | – | – | – | – | – | – | 0 VA | | – |
| 10 | Space | – | – | – | – | – | – | 0 VA | | – |
| 11 | Space | – | – | – | – | – | – | 0 VA | | – |
| 12 | Space | – | – | – | – | – | – | 0 VA | | – |
| 13 | Space | – | – | – | – | – | – | 0 VA | | – |
| 14 | Space | – | – | – | – | – | – | 0 VA | | – |
| 15 | Space | – | – | – | – | – | – | 0 VA | | – |
| 16 | Space | – | – | – | – | – | – | 0 VA | | – |
| 17 | Space | – | – | – | – | – | – | 0 VA | | – |
| 18 | Space | – | – | – | – | – | – | 0 VA | | – |
| 19 | Space | – | – | – | – | – | – | 0 VA | | – |
| 20 | Space | – | – | – | – | – | – | 0 VA | | – |
| | | | | TOTAL CONNECTED LOAD: | 643 A | 644 A | 635 A | 505 kVA | | |

TOTAL CONNECT AMPS: 607 A DEMAND AMPS: 607 A

| Load Classification | Connected Load | Demand Factor | Estimated Demand | Panel Totals | |
|---|---|---|---|---|---|
| O | 246000 VA | 100 00% | 246000 VA | | |
| HL | 258500 VA | 100 00% | 258500 VA | Total Conn. Load: | 504500 VA |
| | | | | Total Est. Demand: | 504500 VA |
| | | | | Total Conn. Current: | 607 A |
| | | | | Total Est. Demand Current: | 607 A |

## H2L — ELECTRICAL PANEL

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| AMP | 100 A | VOLTS/PHASE: | 480/277 Wye/3 | SECTION(S): | | A.I.C. Rating: | 42,000 AIC |
| MAINS: | MLO | WIRE W/GRD.: | 4 | TYPE: | NF | MOUNTING: | Surface |
| MCB | | CIRCUIT: | 42 | BUS: | CU | NEMA: | Type 1 |

| Load | Load Name | Trip | Poles | Wire P&N | Wire Gnd | CCT # | A | A | B | B | C | C | CCT # | Wire Gnd | Wire P&N | Poles | Trip | Load Name | Load |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| L | OFFICES/RT CLSRM/LOBBY/RESTRMS | 20 A | 1 | 12 | 12 | 1 | 2.35 | 3.40 | | | | | 2 | 12 | 12 | 1 | 20 A | OFFICES/H.I. CLSRM/BREAK/CONF | L |
| L | EMS/FIRE CLSRMS/PHYS THER LAB | 20 A | 1 | 12 | 12 | 3 | | | 4.27 | 1.89 | | | 4 | 12 | 12 | 1 | 20 A | LOBBY/ADMIN/RESRMS/ELEC/IT | L |
| L | RT ROOMS/H.I. LECTURE | 20 A | 1 | 12 | 12 | 5 | | | | | 4.17 | 0.18 | 6 | 12 | 12 | 1 | 20 A | LOBBY 24" PENDANT LIGHT | L |
| L | SOUTH HALLWAY LIGHTING | 20 A | 1 | 12 | 12 | 7 | 1 83 | 0.00 | | | | | 8 | | | -- | -- | Space | -- |
| L | NORTH HALLWAY LIGHTING | 20 A | 1 | 12 | 12 | 9 | | | 1.65 | 0.00 | | | 10 | | | -- | -- | Space | -- |
| L | E.M.S. LAB/PHYS THERAPY CLSRM | 20 A | 1 | 12 | 12 | 11 | | | | | 3.26 | 0.00 | 12 | | | -- | -- | Space | -- |
| -- | Space | -- | -- | | | 13 | 0 00 | 0.00 | | | | | 14 | | | -- | -- | Space | -- |
| -- | Space | -- | -- | | | 15 | | | 0.00 | 0.00 | | | 16 | | | -- | -- | Space | -- |
| -- | Space | -- | -- | | | 17 | | | | | 0.00 | 0 00 | 18 | | | -- | -- | Space | -- |
| -- | Space | -- | -- | | | 19 | 0.00 | 0.00 | | | | | 20 | | | -- | -- | Space | -- |
| -- | Space | -- | -- | | | 21 | | | 0.00 | 0.00 | | | 22 | | | -- | -- | Space | -- |
| -- | Space | -- | -- | | | 23 | | | | | 0.00 | 0.00 | 24 | | | -- | -- | Space | -- |
| -- | Space | -- | -- | | | 25 | 0.00 | 0.00 | | | | | 26 | | | -- | -- | Space | -- |
| -- | Space | -- | -- | | | 27 | | | 0.00 | 0.00 | | | 28 | | | -- | -- | Space | -- |
| -- | Space | -- | -- | | | 29 | | | | | 0.00 | 0.00 | 30 | | | -- | -- | Space | -- |
| -- | Space | -- | -- | | | 31 | 0.00 | 0.00 | | | | | 32 | | | -- | -- | Space | -- |
| -- | Space | -- | -- | | | 33 | | | 0.00 | 0.00 | | | 34 | | | -- | -- | Space | -- |
| -- | Space | -- | -- | | | 35 | | | | | 0.00 | 0.00 | 36 | | | -- | -- | Space | -- |
| -- | Space | -- | -- | | | 37 | 0.00 | 0.00 | | | | | 38 | | | -- | -- | Space | -- |
| -- | Space | -- | -- | | | 39 | | | 0.00 | 0.00 | | | 40 | | | -- | -- | Space | -- |
| -- | Space | -- | -- | | | 41 | | | | | 0.00 | 0.00 | 42 | | | -- | -- | Space | -- |
| | | | | | | Total Load: | 7.59 kVA | | 7 80 kVA | | 7.61 kVA | | | | | | | | |
| | | | | | | Total Amps: | 27 A | | 28 A | | 27 A | | | | | | | | |

| Category Load | Load W | Category Load | Load W |
|---|---|---|---|
| Lighting | 22999 VA | Heating | |
| Receptacles | | Cooling | |
| Motors | | Misc. Equipment | |
| Kitchen | | | |

| Panel Totals | |
|---|---|
| Total Conn. Load: | 22999 VA |
| Total Est. Demand: | 22999 W |
| Total Conn. Current: | 28 A |
| Total Est. Demand | 28 A |

Notes:

## LE — ELECTRICAL PANEL

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| AMP | 150 A | VOLTS/PHASE: | 120/208 Wye/3 | SECTION(S): | 1 | A.I.C. Rating: | 10 KAIC |
| MAINS: | MCB | WIRE W/GRD.: | 4 | TYPE: | NQOD | MOUNTING: | Surface |
| MCB | 150 A | CIRCUIT: | 42 | BUS: | CU | NEMA: | Type 1 |

| Load | Load Name | Trip | Poles | Wire P&N | Wire Gnd | CCT # | A | A | B | B | C | C | CCT # | Wire Gnd | Wire P&N | Poles | Trip | Load Name | Load |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| R | RECEP - RM R109 | 20 A | 1 | 12 | 12 | 1 | 0.18 | 0.51 | | | | | 2 | 12 | 12 | 1 | 20 A | LIGHTS - 2ND FLR UNDER CABINETS | L |
| R | RECEPS - RM R109 | 20 A | 1 | 12 | 12 | 3 | | | 0.36 | 0.18 | | | 4 | 12 | 12 | 1 | 20 A | RECEP - VENDING LOBBY 125 | R |
| R | RECEPS - RM R109 | 20 A | 1 | 12 | 12 | 5 | | | | | 0.36 | 0.18 | 6 | 12 | 12 | 1 | 20 A | RECEP - VENDING LOBBY 125 | R |
| R | RECEPS - RM R108 | 20 A | 1 | 12 | 12 | 7 | 0.54 | 0.18 | | | | | 8 | 12 | 12 | 1 | 20 A | RECEP - LOBBY 125 | R |
| R | RECEPS - RM R108 | 20 A | 1 | 12 | 12 | 9 | | | 0.54 | 0.11 | | | 10 | 12 | 12 | 1 | 20 A | EF-2 | CL |
| R | RECEPS - RM R108 | 20 A | 1 | 12 | 12 | 11 | | | | | 0.54 | 0.18 | 12 | 12 | 12 | 1 | 20 A | RECEP - LOBBY 125 | R |
| R | RECEP AND FLOOR BOX - RM R108 | 20 A | 1 | 12 | 12 | 13 | 0.36 | 1.46 | | | | | 14 | 12 | 12 | 1 | 20 A | RECEP - ELEVEATOR SHAFT 105 | L; R |
| R | RECEPS - RM R108 | 20 A | 1 | 12 | 12 | 15 | | | 1.26 | 0.36 | | | 16 | 12 | 12 | 1 | 20 A | RECEPS - SINK R102 | R |
| R | RECEPS - RMS R108, 176, AND 180 | 20 A | 1 | 12 | 12 | 17 | | | | | 0.72 | 0.18 | 18 | 12 | 12 | 1 | 20 A | RECEP AND SWITCH - DISPOSAL RM R102 | L; R |
| R | RECEP - BREAK RM R108 | 20 A | 1 | 12 | 12 | 19 | 0.18 | 0.36 | | | | | 20 | 12 | 12 | 1 | 20 A | RECEPS - SECURITY R104 | R |
| R | RECEP - BREAK RM R108 | 20 A | 1 | 12 | 12 | 21 | | | 0.18 | 0.36 | | | 22 | 12 | 12 | 1 | 20 A | RECEPS - SECURITY R104 | R |
| R | RECEPS - RM R107 | 20 A | 1 | 12 | 12 | 23 | | | | | 0.54 | 0.18 | 24 | 12 | 12 | 1 | 20 A | RECEPS - NORTH EXTERNAL | R |
| R | RECEPS - RM R107 | 20 A | 1 | 12 | 12 | 25 | 0.36 | 0.54 | | | | | 26 | 12 | 12 | 1 | 20 A | RECEPS - EXTERNAL BY CHILLER | R |
| R | RECEPS - RM R107 | 20 A | 1 | 12 | 12 | 27 | | | 0.36 | 0.54 | | | 28 | 12 | 12 | 1 | 20 A | RECEPS - R104 AND R105 | R |
| R | RECEPS - RM R107 | 20 A | 1 | 12 | 12 | 29 | | | | | 0.72 | 0 36 | 30 | 12 | 12 | 1 | 20 A | FLOOR BOXES - R107 | R |
| R | RECEPS - RM R107 AND CORR R106 | 20 A | 1 | 12 | 12 | 31 | 0 36 | 0.72 | | | | | 32 | 12 | 12 | 1 | 20 A | MASS NOTIFICATION MSG BOARDS | O |
| -- | Space | -- | -- | | | 33 | | | 0.00 | 0.00 | | | 34 | | | 1 | 20 A | Spare | -- |
| -- | Space | -- | -- | | | 35 | | | | | 0.00 | 0.00 | 36 | | | 1 | 20 A | Spare | -- |
| O | MASS NOTIFICATION MSG BOARDS | 20 A | 1 | 12 | 12 | 37 | 0.68 | 0.00 | | | | | 38 | | | 1 | 20 A | Spare | -- |
| -- | Spare | 20 A | 1 | | | 39 | | | 0.00 | 0.20 | | | 40 | 12 | 12 | 1 | 20 A | OXYGEN CONTROL PANEL | O |
| -- | Spare | 20 A | 1 | | | 41 | | | | | 0.00 | 0.00 | 42 | 12 | 12 | 1 | 20 A | Access Controls System | -- |
| | | | | | | Total Load: | 6.43 kVA | | 4.45 kVA | | 3.96 kVA | | | | | | | | |
| | | | | | | Total Amps: | 54 A | | 37 A | | 33 A | | | | | | | | |

66

| Category Load | Load W | Category Load | Load W |
|---|---|---|---|
| Lighting | 706 VA | Heating | |
| Receptacles | 12420 VA | Cooling | 105 VA |
| Motors | | Misc. Equipment | |
| Kitchen | | | |

| Panel Totals | |
|---|---|
| Total Conn. Load: | 13231 VA |
| Total Est. Demand: | 12021 W |
| Total Conn. Current: | 37 A |
| Total Est. Demand | 33 A |

Notes:

## HDP1 — MAIN SWITCHBOARD

| | | | | | |
|---|---|---|---|---|---|
| AMP RATING: | 600 A | VOLTS: | 480/277 Wye | A.I.C. Rating: | 42 KAIC |
| MAIN TYPE: | MLO | PHASE: | 3 | SECTIONS: | MLO |
| ENCLOSURE: | Type 2 | WIRES: | 4 | TYPE: | I-LINE TYPE HCP |

| CKT | Circuit Description | FRAME SIZE | TRIP RATING | POLES | LOAD PHASE A | LOAD PHASE B | LOAD PHASE C | LOAD | WIRE SIZE | Remarks |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | T1N1 | 250 A | 125 A | 3 | 96 A | 102 A | 92 A | 80106 VA | SEE RISER DIAGRAM | |
| 2 | T1S1 | 250 A | 125 A | 3 | 60 A | 51 A | 55 A | 45954 VA | SEE RISER DIAGRAM | |
| 3 | T2N1 | 250 A | 225 A | 3 | 82 A | 73 A | 77 A | 64462 VA | SEE RISER DIAGRAM | |
| 4 | T2S1 | 400 A | 225 A | 3 | 49 A | 46 A | 52 A | 40674 VA | SEE RISER DIAGRAM | |
| 5 | Space | – | – | – | – | – | – | 0 VA | | – |
| 6 | Space | – | – | – | – | – | – | 0 VA | | – |
| 7 | Space | – | – | – | – | – | – | 0 VA | | – |
| 8 | Space | – | – | – | – | – | – | 0 VA | | – |
| 9 | Space | – | – | – | – | – | – | 0 VA | | – |
| 10 | Space | – | – | – | – | – | – | 0 VA | | – |
| 11 | Space | – | – | – | – | – | – | 0 VA | | – |
| 12 | Space | – | – | – | – | – | – | 0 VA | | – |
| 13 | Space | – | – | – | – | – | – | 0 VA | | – |
| 14 | Space | – | – | – | – | – | – | 0 VA | | – |
| 15 | Space | – | – | – | – | – | – | 0 VA | | – |
| 16 | Space | – | – | – | – | – | – | 0 VA | | – |
| 17 | Space | – | – | – | – | – | – | 0 VA | | – |
| 18 | Space | – | – | – | – | – | – | 0 VA | | – |
| 19 | Space | – | – | – | – | – | – | 0 VA | | – |
| 20 | Space | – | – | – | – | – | – | 0 VA | | – |
| | | | | TOTAL CONNECTED LOAD: | 310 A | 285 A | 293 A | 245 kVA | | |

TOTAL CONNECT AMPS: 295 A DEMAND AMPS: 179 A

| Load Classification | Connected Load | Demand Factor | Estimated Demand | Panel Totals | |
|---|---|---|---|---|---|
| Power | 20616 VA | 100.00% | 20616 VA | | |
| L | 8702 VA | 100 00% | 8702 VA | Total Conn. Load: | 244863 VA |
| R | 201760 VA | 52 48% | 105880 VA | Total Est. Demand: | 148983 VA |
| O | 1920 VA | 100 00% | 1920 VA | Total Conn. Current: | 295 A |
| CL | 11865 VA | 100 00% | 11865 VA | Total Est. Demand Current: | 179 A |

## H3L — ELECTRICAL PANEL

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| AMP | 100 A | VOLTS/PHASE: | 480/277 Wye/3 | SECTION(S): | 1 | A.I.C. Rating: | 42 KAIC |
| MAINS: | MLO | WIRE W/GRD.: | 4 | TYPE: | NF | MOUNTING: | Surface |
| MCB | | CIRCUIT: | 42 | BUS: | CU | NEMA: | Type 1 |

| Load | Load Name | Trip | Poles | Wire P&N | Wire Gnd | CCT # | A | A | B | B | C | C | CCT # | Wire Gnd | Wire P&N | Poles | Trip | Load Name | Load |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| L | LIGHTS - SHELL SPACE | 20 A | 1 | 12 | 12 | 1 | 2.07 | 0.00 | | | | | 2 | | | 1 | 20 A | Spare | -- |
| L | LIGHTS - STUDENT GATHERING | 20 A | 1 | 12 | 12 | 3 | | | 1.04 | 0.00 | | | 4 | | | 1 | 20 A | Spare | -- |
| -- | Spare | 20 A | 1 | | | 5 | | | | | 0.00 | 0.00 | 6 | | | 1 | 20 A | Spare | -- |
| -- | Spare | 20 A | 1 | | | 7 | 0.00 | 0.00 | | | | | 8 | | | 1 | 20 A | Spare | -- |
| -- | Spare | 20 A | 1 | | | 9 | | | 0.00 | 0.00 | | | 10 | | | 1 | 20 A | Spare | -- |
| -- | Spare | 20 A | 1 | | | 11 | | | | | 0.00 | 0.00 | 12 | | | 1 | 20 A | Spare | -- |
| -- | Spare | 20 A | 1 | | | 13 | 0.00 | 0.00 | | | | | 14 | | | 1 | 20 A | Spare | -- |
| -- | Spare | 20 A | 1 | | | 15 | | | 0.00 | 0.00 | | | 16 | | | 1 | 20 A | Spare | -- |
| -- | Space | -- | -- | | | 17 | | | | | 0.00 | 0.00 | 18 | | | -- | -- | Space | -- |
| -- | Space | -- | -- | | | 19 | 0.00 | 0.00 | | | | | 20 | | | -- | -- | Space | -- |
| -- | Space | -- | -- | | | 21 | | | 0.00 | 0.00 | | | 22 | | | -- | -- | Space | -- |
| -- | Space | -- | -- | | | 23 | | | | | 0.00 | 0.00 | 24 | | | -- | -- | Space | -- |
| -- | Space | -- | -- | | | 25 | 0.00 | 0.00 | | | | | 26 | | | -- | -- | Space | -- |
| -- | Space | -- | -- | | | 27 | | | 0.00 | 0.00 | | | 28 | | | -- | -- | Space | -- |
| -- | Space | -- | -- | | | 29 | | | | | 0.00 | 0.00 | 30 | | | -- | -- | Space | -- |
| -- | Space | -- | -- | | | 31 | 0.00 | 0.00 | | | | | 32 | | | -- | -- | Space | -- |
| -- | Space | -- | -- | | | 33 | | | 0.00 | 0.00 | | | 34 | | | -- | -- | Space | -- |
| -- | Space | -- | -- | | | 35 | | | | | 0.00 | 0.00 | 36 | | | -- | -- | Space | -- |
| -- | Space | -- | -- | | | 37 | 0.00 | 0.00 | | | | | 38 | | | -- | -- | Space | -- |
| -- | Space | -- | -- | | | 39 | | | 0.00 | 0.00 | | | 40 | | | -- | -- | Space | -- |
| -- | Space | -- | -- | | | 41 | | | | | 0.00 | 0 00 | 42 | | | -- | -- | Space | -- |
| | | | | | | Total Load: | 2.07 kVA | | 1.04 kVA | | 0.00 kVA | | | | | | | | |
| | | | | | | Total Amps: | 7 A | | 4 A | | 0 A | | | | | | | | |

| Category Load | Load W | Category Load | Load W |
|---|---|---|---|
| Lighting | 3107 VA | Heating | |
| Receptacles | | Cooling | |
| Motors | | Misc. Equipment | |
| Kitchen | | | |

| Panel Totals | |
|---|---|
| Total Conn. Load: | 3107 VA |
| Total Est. Demand: | 3107 W |
| Total Conn. Current: | 4 A |
| Total Est. Demand | 4 A |

Notes:

CHANGES TOO NUMEROUS TO CLOUD, REVIEW EACH PANEL FOR UPDATED DEMAND LOAD, SECTIONS, AND FEED THROUGH LUGS.


901 N 47th St., Suite 200
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Nabholz Construction
Rogers Division
As-Built Construction
By: JD Hammett, AC
Date: 02/11/2013

# Addendum
# Approved COR
# RFI

NORTHWEST ARKANSAS COMMUNITY COLLEGE • 1989 • ®

# NWACC HEALTH PROFESSIONS BUILDING

BENTONVILLE, ARKANSAS

Key Plan

| No. | Description | Date |
|---|---|---|
| 1 | Addendum 2 | 07/19/11 |
| 2 | DPS REDESIGN | 03/23/12 |


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PROJECT NO: 101074-00
ISSUE DATE: 06/17/11
CONTACT: M. OWINGS
CHECKED BY: AML

CONSTRUCTION BID SET

STATE OF ARKANSAS REGISTERED PROFESSIONAL ENGINEER No.13427 ERIC MICHAEL HAYWARD 3/23/2012


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ELECTRICAL SCHEDULES

E-601


3/23/2012 10 18 19 AM
C:\Users\am526\Documents\NWACC-MEP-2011-Central_am526.rvt

Item 19) **Revision** RE: Attached E-601 through E-604 for revisions to electrical panels.

## H1N1 — ELECTRICAL PANEL

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| AMP | 250 A | VOLTS/PHASE: | 480/277 Wye/3 | SECTION(S): | 1 | A.I.C. Rating: | 42 KAIC |
| MAINS: | MLO | WIRE W/GRD. | 4 | TYPE: | NF | MOUNTING: | Surface |
| MCB | | CIRCUIT: | 48 | BUS: | CU | NEMA: | Type 1 |

| Load | Circuit Description | Trip | Poles | Wire P&N | Wire Gnd | CCT # | A | A | B | B | C | C | CCT # | Wire Gnd | Wire P&N | Poles | Trip | Circuit Description | Load |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| -- | Space | -- | -- | | | 1 | 0.00 | 6.00 | | | | | 2 | 10 | 10 | 3 | 30 A | WH1 - SINK R102 | O |
| -- | Space | -- | -- | | | 3 | | | 0.00 | 6 00 | | | 4 | -- | 10 | -- | -- | -- | -- |
| -- | Space | -- | -- | | | 5 | | | | | 0.00 | 6.00 | 6 | -- | 10 | -- | -- | -- | -- |
| -- | Space | -- | -- | | | 7 | 0.00 | 8.00 | | | | | 8 | 10 | 8 | 3 | 40 A | WH2 - TOILET 180 | O |
| -- | Space | -- | -- | | | 9 | | | 0.00 | 8.00 | | | 10 | -- | 8 | -- | -- | -- | -- |
| -- | Space | -- | -- | | | 11 | | | | | 0.00 | 8.00 | 12 | -- | 8 | -- | -- | -- | -- |
| -- | Space | -- | -- | | | 13 | 0.00 | 8.00 | | | | | 14 | 10 | 8 | 3 | 40 A | WH2 - MEN 194 | O |
| -- | Space | -- | -- | | | 15 | | | 0.00 | 8.00 | | | 16 | -- | 8 | -- | -- | -- | -- |
| -- | Space | -- | -- | | | 17 | | | | | 0.00 | 8.00 | 18 | -- | 8 | -- | -- | -- | -- |
| -- | Space | -- | -- | | | 19 | 0.00 | 5.54 | | | | | 20 | 10 | 10 | 1 | 30 A | PLUMBING HEAT TRACE | HL |
| -- | Space | -- | -- | | | 21 | | | 0.00 | 0.00 | | | 22 | | | -- | -- | Space | -- |
| -- | Space | -- | -- | | | 23 | | | | | 0.00 | 0.00 | 24 | | | -- | -- | Space | -- |
| -- | Space | -- | -- | | | 25 | 0.00 | 0.00 | | | | | 26 | | | -- | -- | Space | -- |
| -- | Space | -- | -- | | | 27 | | | 0.00 | 0.00 | | | 28 | | | -- | -- | Space | -- |
| -- | Space | -- | -- | | | 29 | | | | | 0.00 | 0.00 | 30 | | | -- | -- | Space | -- |
| -- | Space | -- | -- | | | 31 | 0 00 | 0.00 | | | | | 32 | | | -- | -- | Space | -- |
| -- | Space | -- | -- | | | 33 | | | 0.00 | 0.00 | | | 34 | | | -- | -- | Space | -- |
| -- | Space | -- | -- | | | 35 | | | | | 0.00 | 0.00 | 36 | | | -- | -- | Space | -- |
| -- | Space | -- | -- | | | 37 | 0.00 | 0.00 | | | | | 38 | | | -- | -- | Space | -- |
| -- | Space | -- | -- | | | 39 | | | 0.00 | 0.00 | | | 40 | | | -- | -- | Space | -- |
| -- | Space | -- | -- | | | 41 | | | | | 0.00 | 0.00 | 42 | | | -- | -- | Space | -- |

| | A | B | C |
|---|---|---|---|
| Total Load: | 48.37 | 44.83 kVA | 42.83 |
| Total Amps: | 175 A | 162 A | 155 A |

| Category Load | Load W | Category Load | Load W |
|---|---|---|---|
| Lighting | | Heating | 70040 VA |
| Receptacles | | Cooling | |
| Motors | | Misc. Equipment | 66000 VA |
| Kitchen | | | |

| Panel Totals | |
|---|---|
| Total Conn. Load: | 136040 VA |
| Total Est. Demand: | 136040 W |
| Total Conn. Current: | 164 A |
| Total Est. Demand | 164 A |

Notes: 1) PROVIDE WITH FEED THROUGH LUGS.

## H1S2 — ELECTRICAL PANEL

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| AMP | 100 A | VOLTS/PHASE: | 480/277 Wye/3 | SECTION(S): | 1 | A.I.C. Rating: | 42 KAIC |
| MAINS: | MLO | WIRE W/GRD. | 4 | TYPE: | NF | MOUNTING: | Surface |
| MCB | | CIRCUIT: | 42 | BUS: | CU | NEMA: | Type 1 |

| Load | Circuit Description | Trip | Poles | Wire P&N | Wire Gnd | CCT # | A | A | B | B | C | C | CCT # | Wire Gnd | Wire P&N | Poles | Trip | Circuit Description | Load |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| HL | AT-1 | 20 A | 3 | 12 | 12 | 1 | 2.33 | 3.67 | | | | | 2 | 12 | 12 | 3 | 20 A | AT-15 | HL |
| -- | -- | -- | -- | 12 | | 3 | | | 2.33 | 3.67 | | | 4 | | 12 | -- | -- | -- | -- |
| -- | -- | -- | -- | 12 | | 5 | | | | | 2.33 | 3 67 | 6 | | 12 | -- | -- | -- | -- |
| HL | AT-2 | 20 A | 3 | 12 | 12 | 7 | 3.00 | 1.50 | | | | | 8 | 12 | 12 | 1 | 20 A | AT-16 | HL |
| -- | -- | -- | -- | 12 | | 9 | | | 3.00 | 2.50 | | | 10 | 12 | 12 | 1 | 20 A | AT-17 | HL |
| -- | -- | -- | -- | 12 | | 11 | | | | | 3.00 | 1.00 | 12 | 12 | 12 | 1 | 20 A | AT-18 | HL |
| HL | AT-3 | 20 A | 1 | 12 | 12 | 13 | 4.00 | 5.67 | | | | | 14 | 10 | 10 | 3 | 30 A | AT-19 | HL |
| HL | AT-4 | 20 A | 1 | 12 | 12 | 15 | | | 4.00 | 5.67 | | | 16 | | 10 | -- | -- | -- | -- |
| HL | AT-7 | 20 A | 3 | 12 | 12 | 17 | | | | | 0.83 | 5.67 | 18 | | 10 | -- | -- | -- | -- |
| -- | -- | -- | -- | 12 | | 19 | 0 83 | 2.50 | | | | | 20 | 12 | 12 | 1 | 20 A | AT-20 | HL |
| -- | -- | -- | -- | 12 | | 21 | | | 0.83 | 6.00 | | | 22 | 10 | 10 | 3 | 30 A | AT-21 | HL |
| HL | AT-8 | 20 A | 1 | 12 | 12 | 23 | | | | | 3.00 | 6.00 | 24 | | 10 | -- | -- | -- | -- |
| HL | AT-10 | 20 A | 3 | 12 | 12 | 25 | 3 67 | 6.00 | | | | | 26 | | 10 | -- | -- | -- | -- |
| -- | -- | -- | -- | 12 | | 27 | | | 3.67 | 4.67 | | | 28 | 10 | 10 | 3 | 30 A | AT-22 | HL |
| -- | -- | -- | -- | 12 | | 29 | | | | | 3.67 | 4.67 | 30 | | 10 | -- | -- | -- | -- |
| HL | AT-11 | 20 A | 3 | 12 | 12 | 31 | 3.67 | 4.67 | | | | | 32 | | 10 | -- | -- | -- | -- |
| -- | -- | -- | -- | 12 | | 33 | | | 3.67 | 2.67 | | | 34 | 12 | 12 | 3 | 20 A | AT-24 | HL |
| -- | -- | -- | -- | 12 | | 35 | | | | | 3.67 | 2.67 | 36 | | 12 | -- | -- | -- | -- |
| HL | AT-14 | 20 A | 3 | 12 | 12 | 37 | 3.67 | 2.67 | | | | | 38 | | 12 | -- | -- | -- | -- |
| -- | -- | -- | -- | 12 | | 39 | | | 3.67 | 2.00 | | | 40 | 12 | 12 | 1 | 20 A | AT-29 | HL |
| -- | -- | -- | -- | 12 | | 41 | | | | | 3.67 | 2.00 | 42 | 12 | 12 | 1 | 20 A | AT-25 | HL |

| | A | B | C |
|---|---|---|---|
| Total Load: | 47.83 | 48.33 kVA | 45.83 |
| Total Amps: | 173 A | 174 A | 165 A |

| Category Load | Load W | Category Load | Load W |
|---|---|---|---|
| Lighting | | Heating | 142000 VA |
| Receptacles | | Cooling | |
| Motors | | Misc. Equipment | |
| Kitchen | | | |

| Panel Totals | |
|---|---|
| Total Conn. Load: | 142000 VA |
| Total Est. Demand: | 142000 W |
| Total Conn. Current: | 171 A |
| Total Est. Demand | 171 A |

Notes:

## L1N3 — ELECTRICAL PANEL

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| AMP | 250 A | VOLTS/PHASE: | 120/208 Wye/3 | SECTION(S): | 1 | A.I.C. Rating: | 10 KAIC |
| MAINS: | MLO | WIRE W/GRD. | 4 | TYPE: | NQOD | MOUNTING: | Surface |
| MCB | | CIRCUIT: | 42 | BUS: | CU | NEMA: | Type 1 |

| Load | Load Name | Trip | Poles | Wire P&N | Wire Gnd | CCT # | A | A | B | B | C | C | CCT # | Wire Gnd | Wire P&N | Poles | Trip | Load Name | Load |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| R | RECEPS - H.I. CLASSROOM #1 | 20 A | 1 | 12 | 12 | 1 | 0.40 | 0.40 | | | | | 2 | 12 | 12 | 1 | 20 A | RECEPS - H.I. CLASSROOM #1 | R |
| R | RECEPS - H.I. CLASSROOM #1 | 20 A | 1 | 12 | 12 | 3 | | | 0.40 | 0.40 | | | 4 | 12 | 12 | 1 | 20 A | RECEPS - H.I. CLASSROOM #1 | R |
| R | RECEPS - H.I. CLASSROOM #1 | 20 A | 1 | 12 | 12 | 5 | | | | | 0.40 | 0.40 | 6 | 12 | 12 | 1 | 20 A | RECEPS - H.I. CLASSROOM #1 | R |
| R | RECEPS - H.I. CLASSROOM #1 | 20 A | 1 | 12 | 12 | 7 | 0.40 | 0.40 | | | | | 8 | 12 | 12 | 1 | 20 A | RECEPS - H I. CLASSROOM #1 | R |
| R | RECEPS - H.I. CLASSROOM #1 | 20 A | 1 | 12 | 12 | 9 | | | 0.40 | 0.40 | | | 10 | 12 | 12 | 1 | 20 A | RECEPS - H.I. CLASSROOM #1 | R |
| R | RECEPS - H.I. CLASSROOM #1 | 20 A | 1 | 12 | 12 | 11 | | | | | 0.40 | 0.40 | 12 | 12 | 12 | 1 | 20 A | RECEPS - H.I. CLASSROOM #1 | R |
| R | RECEPS - H.I. CLASSROOM #1 | 20 A | 1 | 12 | 12 | 13 | 0.40 | 0.40 | | | | | 14 | 12 | 12 | 1 | 20 A | RECEPS - H.I. CLASSROOM #1 | R |
| R | RECEPS - HI.I CLASSROOM #1 | 20 A | 1 | 12 | 12 | 15 | | | 0.40 | 0.40 | | | 16 | 12 | 12 | 1 | 20 A | RECEPS - H.I. CLASSROOM #1 | R |
| R | RECEPS - H.I. CLASSROOM #1 | 20 A | 1 | 12 | 12 | 17 | | | | | 0.40 | 0.40 | 18 | 12 | 12 | 1 | 20 A | RECEPS - H.I. CLASSROOM #1 | R |
| R | RECEPS - H.I. CLASSROOM #1 | 20 A | 1 | 12 | 12 | 19 | 0.40 | 0.40 | | | | | 20 | 12 | 12 | 1 | 20 A | RECEPS - H.I. CLASSROOM #1 | R |
| R | RECEPS - H.I. CLASSROOM #1 | 20 A | 1 | 12 | 12 | 21 | | | 0.40 | 0.40 | | | 22 | 12 | 12 | 1 | 20 A | RECEPS - H.I. CLASSROOM #1 | R |
| R | RECEPS - H.I. CLASSROOM #1 | 20 A | 1 | 12 | 12 | 23 | | | | | 0.40 | 0.40 | 24 | 12 | 12 | 1 | 20 A | RECEPS - H.I. CLASSROOM #1 | R |
| R | RECEPS - H.I. CLASSROOM #2 | 20 A | 1 | 12 | 12 | 25 | 0 40 | 0.40 | | | | | 26 | 12 | 12 | 1 | 20 A | RECEPS - H.I. CLASSROOM #2 | R |
| R | RECEPS - H.I. CLASSROOM #2 | 20 A | 1 | 12 | 12 | 27 | | | 0.40 | 0.40 | | | 28 | 12 | 12 | 1 | 20 A | RECEPS - H.I. CLASSROOM #2 | R |
| R | RECEPS - H.I. CLASSROOM #2 | 20 A | 1 | 12 | 12 | 29 | | | | | 0.40 | 0.40 | 30 | 12 | 12 | 1 | 20 A | RECEPS - H.I. CLASSROOM #2 | R |
| R | RECEPS - H.I. CLASSROOM #2 | 20 A | 1 | 12 | 12 | 31 | 0.40 | 0.40 | | | | | 32 | 12 | 12 | 1 | 20 A | RECEPS - H.I. CLASSROOM #2 | R |
| R | RECEPS - H.I. CLASSROOM #2 | 20 A | 1 | 12 | 12 | 33 | | | 0.40 | 0.40 | | | 34 | 12 | 12 | 1 | 20 A | RECEPS - H.I. CLASSROOM #2 | R |
| R | RECEPS - H.I. CLASSROOM #2 | 20 A | 1 | 12 | 12 | 35 | | | | | 0.40 | 0.40 | 36 | 12 | 12 | 1 | 20 A | RECEPS - H I. CLASSROOM #2 | R |
| R | RECEPS - H.I. CLASSROOM #2 | 20 A | 1 | 12 | 12 | 37 | 0.40 | 0.40 | | | | | 38 | 12 | 12 | 1 | 20 A | RECEPS - H.I. CLASSROOM #2 | R |
| R | RECEPS - H.I. CLASSROOM #2 | 20 A | 1 | 12 | 12 | 39 | | | 0.40 | 0.40 | | | 40 | 12 | 12 | 1 | 20 A | RECEPS - H.I. CLASSROOM #2 | R |
| R | RECEPS - H.I. CLASSROOM #2 | 20 A | 1 | 12 | 12 | 41 | | | | | 0.40 | 0.40 | 42 | 12 | 12 | 1 | 20 A | RECEPS - H.I. CLASSROOM #2 | R |

| | A | B | C |
|---|---|---|---|
| Total Load: | 5.60 kVA | 5.60 kVA | 5.60 kVA |
| Total Amps: | 47 A | 47 A | 47 A |

| Category Load | Load W | Category Load | Load W |
|---|---|---|---|
| Lighting | | Heating | |
| Receptacles | 16800 VA | Cooling | |
| Motors | | Misc. Equipment | |
| Kitchen | | | |

| Panel Totals | |
|---|---|
| Total Conn. Load: | 16800 VA |
| Total Est. Demand: | 13400 W |
| Total Conn. Current: | 47 A |
| Total Est. Demand | 37 A |

Notes:

## H1N2 — ELECTRICAL PANEL

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| AMP | 250 A | VOLTS/PHASE: | 480/277 Wye/3 | SECTION(S): | 1 | A.I.C. Rating: | 42 KAIC |
| MAINS: | MLO | WIRE W/GRD. | 4 | TYPE: | NF | MOUNTING: | Surface |
| MCB | | CIRCUIT: | 42 | BUS: | CU | NEMA: | Type 1 |

| Load | Circuit Description | Trip | Poles | Wire P&N | Wire Gnd | CCT # | A | A | B | B | C | C | CCT # | Wire Gnd | Wire P&N | Poles | Trip | Circuit Description | Load |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| HL | AT-5 | 20 A | 1 | 12 | 12 | 1 | 2.00 | 7.00 | | | | | 2 | 10 | 10 | 3 | 40 A | RTU-1 | HL |
| HL | AT-6 | 20 A | 1 | 12 | 12 | 3 | | | 4.00 | 7.00 | | | 4 | -- | 10 | -- | -- | -- | -- |
| HL | AT-9 | 20 A | 3 | 12 | 12 | 5 | | | | | 2.00 | 7.00 | 6 | -- | 10 | -- | -- | -- | -- |
| -- | -- | -- | -- | 12 | -- | 7 | 2.00 | 0.00 | | | | | 8 | | | 1 | 20 A | Spare | -- |
| -- | -- | -- | -- | 12 | -- | 9 | | | 2.00 | 0.00 | | | 10 | | | 1 | 20 A | Spare | -- |
| HL | AT-12 | 20 A | 3 | 12 | 12 | 11 | | | | | 3.67 | 0.00 | 12 | | | 1 | 20 A | Spare | -- |
| -- | -- | -- | -- | 12 | -- | 13 | 3.67 | 0.00 | | | | | 14 | | | -- | -- | Space | -- |
| -- | -- | -- | -- | 12 | -- | 15 | | | 3.67 | 0.00 | | | 16 | | | -- | -- | Space | -- |
| HL | AT-13 | 20 A | 3 | 12 | 12 | 17 | | | | | 3.67 | 0.00 | 18 | | | -- | -- | Space | -- |
| -- | -- | -- | -- | 12 | -- | 19 | 3.67 | 0.00 | | | | | 20 | | | -- | -- | Space | -- |
| -- | -- | -- | -- | 12 | -- | 21 | | | 3.67 | 0.00 | | | 22 | | | -- | -- | Space | -- |
| HL | AT-23 | 20 A | 1 | 12 | 12 | 23 | | | | | 2.00 | 0.00 | 24 | | | -- | -- | Space | -- |
| HL | AT-26 | 20 A | 1 | 12 | 12 | 25 | 2.50 | 0.00 | | | | | 26 | | | -- | -- | Space | -- |
| HL | AT-27 | 20 A | 1 | 12 | 12 | 27 | | | 2.50 | 0.00 | | | 28 | | | -- | -- | Space | -- |
| HL | AT-28 | 20 A | 1 | 12 | 12 | 29 | | | | | 2.50 | 0.00 | 30 | | | -- | -- | Space | -- |
| -- | Spare | 20 A | 1 | | | 31 | 0.00 | 0.00 | | | | | 32 | | | -- | -- | Space | -- |
| -- | Spare | 20 A | 1 | | | 33 | | | 0.00 | 0.00 | | | 34 | | | -- | -- | Space | -- |
| -- | Spare | 20 A | 1 | | | 35 | | | | | 0.00 | 0.00 | 36 | | | -- | -- | Space | -- |
| -- | Space | -- | -- | | | 37 | 0.00 | 0.00 | | | | | 38 | | | -- | -- | Space | -- |
| -- | Space | -- | -- | | | 39 | | | 0.00 | 0.00 | | | 40 | | | -- | -- | Space | -- |
| -- | Space | -- | -- | | | 41 | | | | | 0.00 | 0.00 | 42 | | | -- | -- | Space | -- |

| | A | B | C |
|---|---|---|---|
| Total Load: | 20.83 | 22.83 kVA | 20.83 |
| Total Amps: | 75 A | 82 A | 75 A |

| Category Load | Load W | Category Load | Load W |
|---|---|---|---|
| Lighting | | Heating | 64500 VA |
| Receptacles | | Cooling | |
| Motors | | Misc. Equipment | |
| Kitchen | | | |

| Panel Totals | |
|---|---|
| Total Conn. Load: | 64500 VA |
| Total Est. Demand: | 64500 W |
| Total Conn. Current: | 78 A |
| Total Est. Demand | 78 A |

Notes:

## L1N1 — ELECTRICAL PANEL

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| AMP | 250 | VOLTS/PHASE: | 120/208 Wye/3 | SECTION(S): | 1 | A.I.C. Rating: | 10 KAIC |
| MAINS: | MCB | WIRE W/GRD. | 4 | TYPE: | NQOD | MOUNTING: | Surface |
| MCB | 250 | CIRCUIT: | 42 | BUS: | CU | NEMA: | Type 1 |

| Load | Load Name | Trip | Poles | Wire P&N | Wire Gnd | CCT # | A | A | B | B | C | C | CCT # | Wire Gnd | Wire P&N | Poles | Trip | Load Name | Load |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| R | RECEPS - OFFICE #12 | 20 A | 1 | 12 | 12 | 1 | 0.54 | 0.90 | | | | | 2 | 12 | 12 | 1 | 20 A | RECEPS - GAS/BIOHAZ/STORAGE | R |
| R | RECEPS - OFFICE #13 | 20 A | 1 | 12 | 12 | 3 | | | 0.54 | 0.72 | | | 4 | 12 | 12 | 1 | 20 A | RECEPS - RECEIVING ROOM | R |
| R | RECEPS - OFFICE #14 | 20 A | 1 | 12 | 12 | 5 | | | | | 0.54 | 0.72 | 6 | 12 | 12 | 1 | 20 A | RECEPS - SPRINKLER RM/STOR RM | R |
| R | RECEPS - OFFICE #15 | 20 A | 1 | 12 | 12 | 7 | 0.54 | 0.72 | | | | | 8 | 12 | 12 | 1 | 20 A | RECEPS - CNA/PCA/STORAGE PREP | R |
| R | RECEPS - OFFICE #16 | 20 A | 1 | 12 | 12 | 9 | | | 0.54 | 0.72 | | | 10 | 12 | 12 | 1 | 20 A | RECEPS - CORRIDOR/TOILET/AIRLOCK | R |
| R | RECEPS - ADJUNCT #2 | 20 A | 1 | 12 | 12 | 11 | | | | | 0.54 | 1.01 | 12 | 12 | 12 | 1 | 20 A | LIGHTS - UNDERCABINET NORTH | L |
| R | RECEPS - SNA OFFICE | 20 A | 1 | 12 | 12 | 13 | 0.54 | 0.90 | | | | | 14 | 12 | 12 | 1 | 20 A | RECEPS - NW DRINKING FNTN/CORR | R |
| R | RECEPS - RMS 134 AND 125 | 20 A | 1 | 12 | 12 | 15 | | | 0.54 | 0.72 | | | 16 | 12 | 12 | 1 | 20 A | RECEPS - NW CORRIDOR | R |
| R | RECEPS - LOBBY 125 | 20 A | 1 | 12 | 12 | 17 | | | | | 0.36 | 0.54 | 18 | 12 | 12 | 1 | 20 A | RECEPS - LOBBY/STUDENT GATHERING | R |
| R | RECEP - SODA VENDING | 20 A | 1 | 12 | 12 | 19 | 0.90 | 0.36 | | | | | 20 | 12 | 12 | 1 | 20 A | RECEPS - NORTH EXTERIOR | R |
| R | RECEPS - NORTH EXTERIOR | 20 A | 1 | 12 | 12 | 21 | | | 0.36 | 0.36 | | | 22 | 12 | 12 | 1 | 20 A | RECEPS - SOUTH EXTERIOR / STAIRWELL | R |
| R | RECEPS - H.I. CLASSROOM #1 | 20 A | 1 | 12 | 12 | 23 | | | | | 0.36 | 0.54 | 24 | 12 | 12 | 1 | 20 A | RECEPS - WEST EXTERIOR | R |
| R | RECEPS - H.I. CLASSROOM #1 | 20 A | 1 | 12 | 12 | 25 | 0.90 | 0.54 | | | | | 26 | 12 | 12 | 1 | 20 A | RECEPS - H.I. CLASSROOM #1 | R |
| R | RECEPS - H.I. CLASSROOM #2 | 20 A | 1 | 12 | 12 | 27 | | | 0.36 | 0.54 | | | 28 | 12 | 12 | 1 | 20 A | RECEPS - H.I. CLASSROOM #2 | R |
| R | RECEPS - H.I. CLASSROOM #2 | 20 A | 1 | 12 | 12 | 29 | | | | | 0.90 | 0.90 | 30 | 12 | 12 | 1 | 20 A | RECEPS - NURSING CLASSROOM #2 | R |
| R | RECEPS - NURSING CLASSROOM #1 | 20 A | 1 | 12 | 12 | 31 | 0.84 | 0.90 | | | | | 32 | 12 | 12 | 1 | 20 A | RECEPS - NURSING CLASSROOM #3 | R |
| R | RECEPS - NURSING CLASSROOM #1 | 20 A | 1 | 12 | 12 | 33 | | | 0.72 | 1.08 | | | 34 | 12 | 12 | 1 | 20 A | RECEP - BREAK ROOM GARBAGE | L; R |
| R | RECEPS - NURSING CLASSROOM #2 | 20 A | 1 | 12 | 12 | 35 | | | | | 0.54 | 1.08 | 36 | 12 | 12 | 1 | 20 A | RECEP - BREAK ROOM REFRIDGERATOR | R |
| R | RECEPS - NURSING CLASSROOM #2 | 20 A | 1 | 12 | 12 | 37 | 0.36 | 1.08 | | | | | 38 | 12 | 12 | 1 | 20 A | RECEP - BREAKROOM | R |
| R | RECEPS - NURSING CLASSROOM #3 | 20 A | 1 | 12 | 12 | 39 | | | 0.72 | 0.90 | | | 40 | 12 | 12 | 1 | 20 A | RECEPS - CONFERENCE | R |
| R | RECEPS - NURSING CLASSROOM #3 | 20 A | 1 | 12 | 12 | 41 | | | | | 0.36 | 1.08 | 42 | 12 | 12 | 1 | 20 A | RECEP - BREAK ROOM | R |

| | A | B | C |
|---|---|---|---|
| Total Load: | 26.51 | 28.23 kVA | 25.36 |
| Total Amps: | 221 A | 235 A | 211 A |

| Category Load | Load W | Category Load | Load W |
|---|---|---|---|
| Lighting | 1012 VA | Heating | |
| Receptacles | 55360 VA | Cooling | 2758 VA |
| Motors | | Misc. Equipment | |
| Kitchen | | | |

| Panel Totals | |
|---|---|
| Total Conn. Load: | 79746 VA |
| Total Est. Demand: | 57066 W |
| Total Conn. Current: | 221 A |
| Total Est. Demand | 158 A |

Notes: 1) PROVIDE FEED THROUGH LUGS.

## L1S1 — ELECTRICAL PANEL

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| AMP | 225 | VOLTS/PHASE: | 120/208 Wye/3 | SECTION(S): | 1 | A.I.C. Rating: | 10 KAIC |
| MAINS: | MCB | WIRE W/GRD. | 4 | TYPE: | NQOD | MOUNTING: | Surface |
| MCB | 225 | CIRCUIT: | 42 | BUS: | CU | NEMA: | Type 1 |

| Load | Load Name | Trip | Poles | Wire P&N | Wire Gnd | CCT # | A | A | B | B | C | C | CCT # | Wire Gnd | Wire P&N | Poles | Trip | Load Name | Load |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| R | RECEPS - OFFICE #1 | 20 A | 1 | 12 | 12 | 1 | 0.54 | 0.54 | | | | | 2 | 12 | 12 | 1 | 20 A | R Space 66 | R |
| R | RECEPS - OFFICE #2 | 20 A | 1 | 12 | 12 | 3 | | | 0.54 | 0.72 | | | 4 | 12 | 12 | 1 | 20 A | RECEP - SODA VENDING | R |
| R | RECEPS - OFFICE #3 | 20 A | 1 | 12 | 12 | 5 | | | | | 0.54 | 0.18 | 6 | 12 | 12 | 1 | 20 A | RECEP - CANDY VENDING | R |
| R | RECEPS - OFFICE #4 | 20 A | 1 | 12 | 12 | 7 | 0.54 | 0.18 | | | | | 8 | 12 | 12 | 1 | 20 A | RECEP - CANDY VENDING | R |
| R | RECEPS - OFFICE #5 | 20 A | 1 | 12 | 12 | 9 | | | 0.54 | 0.72 | | | 10 | 12 | 12 | 1 | 20 A | RECEPS - ADMIN OFFICE #1 | R |
| R | RECEPS - OFFICE #6 | 20 A | 1 | 12 | 12 | 11 | | | | | 0.54 | 0.72 | 12 | 12 | 12 | 1 | 20 A | RECEPS - ADMIN OFFICE #2 | R |
| R | RECEPS - OFFICE #7 | 20 A | 1 | 12 | 12 | 13 | 0.54 | 0.54 | | | | | 14 | 12 | 12 | 1 | 20 A | RECEPS - LOBBY/STUDENT GATHERING | R |
| R | RECEPS - SW CORRIDOR | 20 A | 1 | 12 | 12 | 15 | | | 0.54 | 0.90 | | | 16 | 12 | 12 | 1 | 20 A | RECEP S - ENTRY CORRIDOR | R |
| R | RECEPS - OFFICE #9 | 20 A | 1 | 12 | 12 | 17 | | | | | 0.54 | 0.90 | 18 | 12 | 12 | 1 | 20 A | RECEPS - SHOWER/WTR FNTN | R |
| R | RECEPS - OFFICE #10 | 20 A | 1 | 12 | 12 | 19 | 0.54 | 2.70 | | | | | 20 | 12 | 12 | 1 | 30 A | RECEP - I.T. 187 | R |
| R | RECEPS - OFFICE #11 | 20 A | 1 | 12 | 12 | 21 | | | 0.54 | 0.00 | | | 22 | | | -- | -- | Space | -- |
| R | RECEPS - NE CORRIDOR | 20 A | 1 | 12 | 12 | 23 | | | | | 0.54 | 0.90 | 24 | 12 | 12 | 1 | 20 A | RECEPS - IT/JAN/STORAGE | R |
| R | RECEPS - FILE STORAGE | 20 A | 1 | 12 | 12 | 25 | 0.72 | 0.23 | | | | | 26 | 12 | 12 | 1 | 20 A | LIGHTS - UNDERCABINET SOUTH | L |
| R | RECEPS - WORK ROOM | 20 A | 1 | 12 | 12 | 27 | | | 0.54 | 0.36 | | | 28 | 12 | 12 | 1 | 20 A | RECEP - ENTRANCE TV | R |
| R | RECEPS - WORK ROOM | 20 A | 1 | 12 | 12 | 29 | | | | | 0.36 | 0.18 | 30 | 12 | 12 | 1 | 20 A | RECEPS - NURSING CLSRM #4 | R |
| R | RECEPS - BREAK ROOM | 20 A | 1 | 12 | 12 | 31 | 0.36 | 0.36 | | | | | 32 | 12 | 12 | 1 | 20 A | RECEPS - PROJECTOR/TV/SCREEN 188 | R |
| R | RECEPS - BREAK ROOM COUNTERS | 20 A | 1 | 12 | 12 | 33 | | | 0.36 | 0.96 | | | 34 | 12 | 12 | 1 | 20 A | RECEP - WORK ROOM COPIER 186 | R |
| R | RECEPS - NURSING CLASSROOM #4 | 20 A | 1 | 12 | 12 | 35 | | | | | 0.54 | 1.08 | 36 | 12 | 12 | 1 | 20 A | RECEP - BREAK ROOM REFRIGERATOR 184 | R |
| R | RECEPS - NURSING CLASSROOM #4 | 20 A | 1 | 12 | 12 | 37 | 0.36 | 0.54 | | | | | 38 | 12 | 12 | 1 | 20 A | RECEPS - EAST EXTERIOR | R |
| R | RECEPS - WORK ROOM | 20 A | 1 | 12 | 12 | 39 | | | 0.72 | 0.54 | | | 40 | 12 | 12 | 1 | 20 A | RECEPS - NURSING SIMULATIONS LAB 1 | R |
| R | RECEPS - NURSING SIMULATIONS | 20 A | 1 | 12 | 12 | 41 | | | | | 0.36 | 0.36 | 42 | 12 | 12 | 1 | 20 A | RECEPS - NURSING SIMULATIONS LAB 2 | R |

| | A | B | C |
|---|---|---|---|
| Total Load: | 16.49 | 14.10 kVA | 15.36 |
| Total Amps: | 137 A | 118 A | 128 A |

| Category Load | Load W | Category Load | Load W |
|---|---|---|---|
| Lighting | 1334 VA | Heating | |
| Receptacles | 42700 VA | Cooling | |
| Motors | | Misc. Equipment | 1920 VA |
| Kitchen | | | |

| Panel Totals | |
|---|---|
| Total Conn. Load: | 45954 VA |
| Total Est. Demand: | 29604 W |
| Total Conn. Current: | 128 A |
| Total Est. Demand | 82 A |

Notes: 1) PROVIDE FEED THROUGH LUGS.

## H1S1 — ELECTRICAL PANEL

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| AMP | 400 A | VOLTS/PHASE: | 480/277 Wye/3 | SECTION(S): | 1 | A.I.C. Rating: | 42 KAIC |
| MAINS: | MLO | WIRE W/GRD. | 4 | TYPE: | NF | MOUNTING: | Surface |
| MCB | | CIRCUIT: | 42 | BUS: | CU | NEMA: | Type 1 |

| Load | Load Name | Trip | Poles | Wire P&N | Wire Gnd | CCT # | A | A | B | B | C | C | CCT # | Wire Gnd | Wire P&N | Poles | Trip | Load Name | Load |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| -- | Spare | 20 A | 1 | | | 1 | 0.00 | 6.00 | | | | | 2 | 10 | 10 | 3 | 30 A | WH1 - TOILET 190 | O |
| -- | Spare | 20 A | 1 | | | 3 | | | 0 00 | 6.00 | | | 4 | -- | 10 | -- | -- | -- | -- |
| -- | Spare | 20 A | 1 | | | 5 | | | | | 0.00 | 6.00 | 6 | -- | 10 | -- | -- | -- | -- |
| -- | Space | -- | -- | | | 7 | 0.00 | 6.00 | | | | | 8 | 10 | 10 | 3 | 30 A | WH1 - BREAK ROOM 184 | O |
| -- | Space | -- | -- | | | 9 | | | 0.00 | 6.00 | | | 10 | -- | 10 | -- | -- | -- | -- |
| -- | Space | -- | -- | | | 11 | | | | | 0.00 | 6.00 | 12 | -- | 10 | -- | -- | -- | -- |
| -- | Space | -- | -- | | | 13 | 0.00 | 6.00 | | | | | 14 | 10 | 10 | 3 | 30 A | WH1 - JANITOR 189 | O |
| -- | Space | -- | -- | | | 15 | | | 0.00 | 6.00 | | | 16 | -- | 10 | -- | -- | -- | -- |
| -- | Space | -- | -- | | | 17 | | | | | 0.00 | 6.00 | 18 | -- | 10 | -- | -- | -- | -- |
| -- | Space | -- | -- | | | 19 | 0.00 | 12.0 | | | | | 20 | 10 | 6 | 3 | 60 A | WH3 - SHOWER 150 | O |
| -- | Space | -- | -- | | | 21 | | | 0.00 | 12.0 | | | 22 | -- | 6 | -- | -- | -- | -- |
| -- | Space | -- | -- | | | 23 | | | | | 0.00 | 12.0 | 24 | -- | 6 | -- | -- | -- | -- |
| -- | Space | -- | -- | | | 25 | 0.00 | 8 00 | | | | | 26 | 10 | 8 | 3 | 40 A | WH2 - MEN'S 148 | O |
| -- | Space | -- | -- | | | 27 | | | 0.00 | 8.00 | | | 28 | -- | 8 | -- | -- | -- | -- |
| -- | Space | -- | -- | | | 29 | | | | | 0.00 | 8.00 | 30 | -- | 8 | -- | -- | -- | -- |
| -- | Space | -- | -- | | | 31 | 0.00 | 0.00 | | | | | 32 | | | -- | -- | Space | -- |
| -- | Space | -- | -- | | | 33 | | | 0.00 | 0.00 | | | 34 | | | -- | -- | Space | -- |
| -- | Space | -- | -- | | | 35 | | | | | 0.00 | 0.00 | 36 | | | -- | -- | Space | -- |
| -- | Space | -- | -- | | | 37 | 0.00 | 0.00 | | | | | 38 | | | -- | -- | Space | -- |
| -- | Space | -- | -- | | | 39 | | | 0.00 | 0.00 | | | 40 | | | -- | -- | Space | -- |
| -- | Space | -- | -- | | | 41 | | | | | 0.00 | 0.00 | 42 | | | -- | -- | Space | -- |

| | A | B | C |
|---|---|---|---|
| Total Load: | 85.83 | 86.33 kVA | 83.83 |
| Total Amps: | 310 A | 312 A | 303 A |

| Category Load | Load W | Category Load | Load W |
|---|---|---|---|
| Lighting | | Heating | 142000 VA |
| Receptacles | | Cooling | |
| Motors | | Misc. Equipment | 114000 VA |
| Kitchen | | | |

| Panel Totals | |
|---|---|
| Total Conn. Load: | 256000 VA |
| Total Est. Demand: | 114000 W |
| Total Conn. Current: | 308 A |
| Total Est. Demand | 137 A |

Notes:

## L1N2 — ELECTRICAL PANEL

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| AMP | 250 A | VOLTS/PHASE: | 120/208 Wye/3 | SECTION(S): | 1 | A.I.C. Rating: | 10 KAIC |
| MAINS: | MLO | WIRE W/GRD. | 4 | TYPE: | NQOD | MOUNTING: | Surface |
| MCB | | CIRCUIT: | 42 | BUS: | CU | NEMA: | Type 1 |

| Load | Load Name | Trip | Poles | Wire P&N | Wire Gnd | CCT # | A | A | B | B | C | C | CCT # | Wire Gnd | Wire P&N | Poles | Trip | Load Name | Load |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| R | HW BOX- SL BREAKOUT 4 161 | 20 A | 1 | 12 | 12 | 1 | 0.50 | 0.50 | | | | | 2 | 12 | 12 | 1 | 20 A | HEAD WALL BOX - SL BREAKOUT 4 161 | R |
| R | HW BOX- SL BREAKOUT 3 160 | 20 A | 1 | 12 | 12 | 3 | | | 0.50 | 0.50 | | | 4 | 12 | 12 | 1 | 20 A | HEAD WALL BOX - SL BREAKOUT 3 160 | R |
| R | HW BOX- SL BREAKOUT 2 159 | 20 A | 1 | 12 | 12 | 5 | | | | | 0.50 | 0.50 | 6 | 12 | 12 | 1 | 20 A | HEAD WALL BOX - SL BREAKOUT 2 159 | R |
| R | HW BOX- TREATMENT 197 | 20 A | 1 | 12 | 12 | 7 | 0.50 | 0.50 | | | | | 8 | 12 | 12 | 1 | 20 A | HEAD WALL BOX - TREATMENT 197 | R |
| R | RECEPS S- SL BREAKOUT 4 161 | 20 A | 1 | 12 | 12 | 9 | | | 0.54 | 0.54 | | | 10 | 12 | 12 | 1 | 20 A | RECEPS - SL BREAKOUT 3 160 | R |
| R | RECEPS- SL BREAKOUT 2 159 | 20 A | 1 | 12 | 12 | 11 | | | | | 0.54 | 0.54 | 12 | 12 | 12 | 1 | 20 A | RECEPS - TREATMENT 197 | R |
| R | RECEPS- SIMULATION LAB 141 | 20 A | 1 | 12 | 12 | 13 | 0.54 | 0.54 | | | | | 14 | 12 | 12 | 1 | 20 A | RECEPS - SIMULATION LAB 141 | R |
| R | RECEP- H.I. CLASSROOM #2 127 | 20 A | 1 | 12 | 12 | 15 | | | 1.00 | 1.00 | | | 16 | 12 | 12 | 1 | 20 A | RECEP - H.I. CLASSROOM #2 127 | R |
| R | RECEP- H.I. CLASSROOM #2 127 | 20 A | 1 | 12 | 12 | 17 | | | | | 1.00 | 1.00 | 18 | 12 | 12 | 1 | 20 A | RECEP - H.I. CLASSROOM #2 127 | R |
| R | RECEP- H.I. CLASSROOM #2 127 | 20 A | 1 | 12 | 12 | 19 | 1.00 | 0.54 | | | | | 20 | 12 | 12 | 1 | 20 A | RECEPS - NE CONFERENCE ROOM | R |
| Powe | MED AIR COMP. 149 | 50 A | 3 | 8 | 10 | 21 | | | 3.60 | 1.27 | | | 22 | 10 | 10 | 3 | 30 A | VAC. PUMP 149 | Powe |
| -- | -- | -- | -- | 8 | -- | 23 | | | | | 3.60 | 1.27 | 24 | -- | 10 | -- | -- | -- | -- |
| -- | -- | -- | -- | 8 | -- | 25 | 3.60 | 1.27 | | | | | 26 | -- | 10 | -- | -- | -- | -- |
| CL | DSCU-6/DSS-6 | 20 A | 1 | 12 | 12 | 27 | | | 1.40 | 1.40 | | | 28 | 12 | 12 | 1 | 20 A | DSCU-4/DSS-4 | CL |
| -- | Space | -- | -- | | | 29 | | | | | 0.00 | 0.36 | 30 | 12 | 12 | 1 | 20 A | RECEP - LAB #152 | R |
| -- | Space | -- | -- | | | 31 | 0.00 | 0.00 | | | | | 32 | | | 1 | 20 A | Spare | -- |
| R | RECEP - SITE POWER | 20 A | 1 | 8 | 10 | 33 | | | 0.18 | 1.00 | | | 34 | 12 | 12 | 1 | 20 A | RECEP - H.I. CLASSROOM #2 127 | R |
| R | RECEP - SITE POWER | 20 A | 1 | 8 | 10 | 35 | | | | | 0.18 | 0.00 | 36 | | | -- | -- | Space | -- |
| Powe | WH4 - 149 | 30 A | 3 | 10 | 10 | 37 | 2.00 | 0.00 | | | | | 38 | | | -- | -- | Space | -- |
| -- | -- | -- | -- | 10 | -- | 39 | | | 2.00 | 0.72 | | | 40 | 12 | 12 | 1 | 20 A | RECEPS - SL BREAKOUT ROOM | R |
| -- | -- | -- | -- | 10 | -- | 41 | | | | | 2.00 | 0.00 | 42 | | | -- | -- | Space | -- |

| | A | B | C |
|---|---|---|---|
| Total Load: | 16.49 | 19.41 kVA | 15.89 |
| Total Amps: | 137 A | 162 A | 132 A |

| Category Load | Load W | Category Load | Load W |
|---|---|---|---|
| Lighting | | Heating | |
| Receptacles | 28060 VA | Cooling | 2758 VA |
| Motors | | Misc. Equipment | |
| Kitchen | | | |

| Panel Totals | |
|---|---|
| Total Conn. Load: | 51434 VA |
| Total Est. Demand: | 42404 W |
| Total Conn. Current: | 143 A |
| Total Est. Demand | 118 A |

Notes: 1) PROVIDE FEED THROUGH LUGS.

## L1S2 — ELECTRICAL PANEL

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| AMP | 225 A | VOLTS/PHASE: | 120/208 Wye/3 | SECTION(S): | 1 | A.I.C. Rating: | 10 KAIC |
| MAINS: | MLO | WIRE W/GRD. | 4 | TYPE: | NQOD | MOUNTING: | Surface |
| MCB | | CIRCUIT: | 42 | BUS: | CU | NEMA: | Type 1 |

| Load | Load Name | Trip | Poles | Wire P&N | Wire Gnd | CCT # | A | A | B | B | C | C | CCT # | Wire Gnd | Wire P&N | Poles | Trip | Load Name | Load |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| R | HEAD WALL BOX - SIM #2 | 20 A | 1 | 12 | 12 | 1 | 0.50 | 0.50 | | | | | 2 | 12 | 12 | 1 | 20 A | HEAD WALL BOX - SIM 2 | R |
| R | HEAD WALL BOX - SIM #1 | 20 A | 1 | 12 | 12 | 3 | | | 0.50 | 0.50 | | | 4 | 12 | 12 | 1 | 20 A | HEAD WALL BOX - SIM 1 | R |
| R | HEAD WALL BOX - NURSING SIM LAB | 20 A | 1 | 12 | 12 | 5 | | | | | 0.50 | 0.50 | 6 | 12 | 12 | 1 | 20 A | HEAD WALL BOX - NURSING SIM LAB 2 | R |
| R | HEAD WALL BOX - NURSING SIM LAB | 20 A | 1 | 12 | 12 | 7 | 0.50 | 0.50 | | | | | 8 | 12 | 12 | 1 | 20 A | HEAD WALL BOX - NURSING SIM LAB 2 | R |
| R | HEAD WALL BOX - NURSING SIM LAB | 20 A | 1 | 12 | 12 | 9 | | | 0.50 | 0.50 | | | 10 | 12 | 12 | 1 | 20 A | HEAD WALL BOX - NURSING SIM LAB 2 | R |
| R | HEAD WALL BOX - NURSING SIM LAB | 20 A | 1 | 12 | 12 | 11 | | | | | 0.50 | 0.50 | 12 | 12 | 12 | 1 | 20 A | HEAD WALL BOX - NURSING SIM LAB 2 | R |
| R | HEAD WALL BOX - NURSING SIM LAB | 20 A | 1 | 12 | 12 | 13 | 0.50 | 0.50 | | | | | 14 | 12 | 12 | 1 | 20 A | HEAD WALL BOX - NURSING SIM LAB 2 | R |
| R | HEAD WALL BOX - NURSIGN SIM LAB | 20 A | 1 | 12 | 12 | 15 | | | 0.50 | 0.50 | | | 16 | 12 | 12 | 1 | 20 A | HEAD WALL BOX - NURSING SIM LAB 1 | R |
| R | HEAD WALL BOX - NURSING SIM LAB | 20 A | 1 | 12 | 12 | 17 | | | | | 0.50 | 0.50 | 18 | 12 | 12 | 1 | 20 A | HEAD WALL BOX - NURSING SIM LAB 1 | R |
| R | HEAD WALL BOX - NURSING SIM LAB | 20 A | 1 | 12 | 12 | 19 | 0.50 | 0.50 | | | | | 20 | 12 | 12 | 1 | 20 A | HEAD WALL BOX - NURSING SIM LAB 1 | R |
| -- | Spare | 20 A | 1 | 12 | 12 | 21 | | | 0.00 | 0.00 | | | 22 | | | 1 | 20 A | Spare | -- |
| R | RECEPS - SIM #2 | 20 A | 1 | 12 | 12 | 23 | | | | | 0.36 | 0.00 | 24 | | | 1 | 20 A | Spare | -- |
| R | RECEPS - NURSING SIM LAB 1 | 20 A | 1 | 12 | 12 | 25 | 0.36 | 0.36 | | | | | 26 | 12 | 12 | 1 | 20 A | RECEPS - NURSING SIM LAB 1 | R |
| R | RECEPS - NURSING SIM LAB 1 | 20 A | 1 | 12 | 12 | 27 | | | 0.36 | 0.36 | | | 28 | 12 | 12 | 1 | 20 A | RECEPS - NURSING SIM LAB 2 | R |
| R | RECEPS - NURSING SIM LAB 2 | 20 A | 1 | 12 | 12 | 29 | | | | | 0.36 | 0.36 | 30 | 12 | 12 | 1 | 20 A | RECEPS - NURSING SIM LAB 2 | R |
| R | RECEPS - NURSING SIM LAB 2 | 20 A | 1 | 12 | 12 | 31 | 0.36 | 0.36 | | | | | 32 | 12 | 12 | 1 | 20 A | RECEPS - NURSIGN SIM LAB 2 | R |
| R | RECEPS - SIM #1 | 20 A | 1 | 12 | 12 | 33 | | | 0.36 | 0.54 | | | 34 | 12 | 12 | 1 | 20 A | RECEPS - SIM 1 | R |
| R | RECEPS - CTRL ROOM | 20 A | 1 | 12 | 12 | 35 | | | | | 0.72 | 0.54 | 36 | 12 | 12 | 1 | 20 A | RECEPS - SIM 2 | R |
| R | RECEPS - HEADBOARDS NURSING | 20 A | 1 | 12 | 12 | 37 | 0.54 | 0.72 | | | | | 38 | 12 | 12 | 1 | 20 A | RECEPS - HEADBOARDS NURSING SIM | R |
| R | RECEPS - HEADBOARDS NURSIGN | 20 A | 1 | 12 | 12 | 39 | | | 0.54 | 0.96 | | | 40 | 12 | 12 | 1 | 20 A | RECEP - ADMIN #1 | R |
| R | RECEPS - I.T. ROOM | 20 A | 1 | 12 | 12 | 41 | | | | | 0 36 | 1.92 | 42 | 12 | 12 | 1 | 20 A | JUNCTION BOX - SUMP PUMP | O |

| | A | B | C |
|---|---|---|---|
| Total Load: | 6.70 kVA | 6.12 kVA | 7.62 kVA |
| Total Amps: | 56 A | 51 A | 64 A |

| Category Load | Load W | Category Load | Load W |
|---|---|---|---|
| Lighting | | Heating | |
| Receptacles | 18520 VA | Cooling | |
| Motors | | Misc. Equipment | 1920 VA |
| Kitchen | | | |

| Panel Totals | |
|---|---|
| Total Conn. Load: | 20440 VA |
| Total Est. Demand: | 16180 W |
| Total Conn. Current: | 57 A |
| Total Est. Demand | 45 A |

Notes:

CHANGES TOO NUMEROUS TO CLOUD, REVIEW EACH PANEL FOR UPDATED DEMAND LOAD, SECTIONS, AND FEED THROUGH LUGS.


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CERTIFICATE OF AUTHORIZATION: CERTIFICATE OF AUTHORIZATION — CRAFTON, TULL, SPARKS & ASSOCIATES, INC No 109 — ARKANSAS ENGINEER

Nabholz Construction
Rogers Division
As-Built Construction
By: JD Hammett, AC
Date: 02/11/2013

Addendum
Approved COR
RFI

NORTHWEST ARKANSAS COMMUNITY COLLEGE 1989 ®

# NWACC HEALTH PROFESSIONS BUILDING

BENTONVILLE, ARKANSAS

Key Plan

| No. | Description | Date |
|---|---|---|
| 1 | Addendum 2 | 07/19/11 |
| 2 | DPS REDESIGN | 03/23/12 |


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PROJECT NO: 101074-00
ISSUE DATE: 06/17/11
CONTACT: M. OWINGS
CHECKED BY: AML

CONSTRUCTION BID SET

STATE OF ARKANSAS REGISTERED PROFESSIONAL ENGINEER No. 13427 ERIC MICHAEL HAYWARD 3/23/2012


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ELECTRICAL SCHEDULES

E-602

3/23/2012 10 18 42 AM
C:\Users\am526\Documents\NWACC-MEP-2011-Central_am526.rvt

2 Item 19) ***Revision*** RE: Attached E-601 through E-604 for revisions to electrical panels.

## H2N1 — ELECTRICAL PANEL

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| AMP | 400 A | VOLTS/PHASE: | 480/277 Wye/3 | SECTION(S): | 1 | A.I.C. Rating: | 42 KAIC |
| MAINS: | MLO | WIRE W/GRD. | 4 | TYPE: | NF | MOUNTING: | Surface |
| MCB | | CIRCUIT: | 42 | BUS: | CU | NEMA: | Type 1 |

| Load | Circuit Description | Trip | Poles | Wire P&N | Wire Gnd | CCT # | A | | B | | C | | CCT # | Wire Gnd | Wire P&N | Poles | Trip | Circuit Description | Load |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| O | WH1- RT ICU SIM 242 | 30 A | 3 | 10 | 10 | 1 | 6.00 | 6.00 | | | | | 2 | 10 | 10 | 3 | 30 A | WH1 - JANITOR 282 | O |
| -- | -- | -- | -- | 10 | -- | 3 | | | 6.00 | 6.00 | | | 4 | -- | 10 | -- | -- | -- | -- |
| -- | -- | -- | -- | 10 | -- | 5 | | | | | 6.00 | 6.00 | 6 | -- | 10 | -- | -- | -- | -- |
| O | WH1- RT ICU SIM 243 | 30 A | 3 | 10 | 10 | 7 | 6.00 | 8.00 | | | | | 8 | 10 | 10 | 3 | 40 A | WH2 - MEN 280 | O |
| -- | -- | -- | -- | 10 | -- | 9 | | | 6.00 | 8.00 | | | 10 | -- | 10 | -- | -- | -- | -- |
| -- | -- | -- | -- | 10 | -- | 11 | | | | | 6.00 | 8.00 | 12 | -- | 10 | -- | -- | -- | -- |
| O | WH1-RT SIMULATION 244 | 30 A | 3 | 10 | 10 | 13 | 6.00 | 8.00 | | | | | 14 | 10 | 10 | 3 | 40 A | WH1 - RT SIMULATION 244 | O |
| -- | -- | -- | -- | 10 | -- | 15 | | | 6.00 | 8.00 | | | 16 | -- | 10 | -- | -- | -- | -- |
| -- | -- | -- | -- | 10 | -- | 17 | | | | | 6.00 | 8.00 | 18 | -- | 10 | -- | -- | -- | -- |
| O | WH1- RT SIMULATION 244 | 30 A | 3 | 10 | 10 | 19 | 6.00 | 6.00 | | | | | 20 | 10 | 10 | 3 | 30 A | WH1 - PHYSICAL THERAPY LAB 254 | O |
| -- | -- | -- | -- | 10 | -- | 21 | | | 6.00 | 6.00 | | | 22 | -- | 10 | -- | -- | -- | -- |
| -- | -- | -- | -- | 10 | -- | 23 | | | | | 6.00 | 6.00 | 24 | -- | 10 | -- | -- | -- | -- |
| O | WH1-RT SIMULATION 244 | 30 A | 3 | 10 | 10 | 25 | 6.00 | 6.00 | | | | | 26 | 10 | 10 | 3 | 30 A | WH1 - PHYSICAL THERAPY LAB 254 | O |
| -- | -- | -- | -- | 10 | -- | 27 | | | 6.00 | 6.00 | | | 28 | -- | 10 | -- | -- | -- | -- |
| -- | -- | -- | -- | 10 | -- | 29 | | | | | 6.00 | 6.00 | 30 | -- | 10 | -- | -- | -- | -- |
| -- | Space | -- | -- | | | 31 | 0.00 | 6.00 | | | | | 32 | 10 | 10 | 3 | 30 A | WH1- BREAK ROOM 226 | O |
| -- | Space | -- | -- | | | 33 | | | 0.00 | 6.00 | | | 34 | -- | 10 | -- | -- | -- | -- |
| -- | Space | -- | -- | | | 35 | | | | | 0.00 | 6.00 | 36 | -- | 10 | -- | -- | -- | -- |
| -- | Space | -- | -- | | | 37 | 0.00 | 0.00 | | | | | 38 | 10 | 10 | 3 | 30 A | WH1-Toilet 229 | -- |
| -- | Space | -- | -- | | | 39 | | | 0.00 | 6.00 | | | 40 | | 10 | -- | -- | -- | -- |
| -- | Space | -- | -- | | | 41 | | | | | 6.00 | 6.00 | 42 | | 10 | -- | -- | -- | -- |
| | | | | | | Total Load: | 101.67 | | 101.17 | | 100.04 | | | | | | | | |
| | | | | | | Total Amps: | 367 A | | 365 A | | 361 A | | | | | | | | |

175

| Category Load | Load W | Category Load | Load W |
|---|---|---|---|
| Lighting | | Heating | 92875 VA |
| Receptacles | | Cooling | |
| Motors | | Misc. Equipment | 210000 VA |
| Kitchen | | | |

| Panel Totals | |
|---|---|
| Total Conn. Load: | 302875 VA |
| Total Est. Demand: | 302875 W |
| Total Conn. Current: | 364 A |
| Total Est. Demand | 364 A |

Notes:

## H2S2 — ELECTRICAL PANEL

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| AMP | 400 A | VOLTS/PHASE: | 480/277 Wye/3 | SECTION(S): | 1 | A.I.C. Rating: | 42 KAIC |
| MAINS: | MLO | WIRE W/GRD. | 4 | TYPE: | NF | MOUNTING: | Surface |
| MCB | | CIRCUIT: | 42 | BUS: | CU | NEMA: | Type 1 |

| Load | Circuit Description | Trip | Poles | Wire P&N | Wire Gnd | CCT # | A | | B | | C | | CCT # | Wire Gnd | Wire P&N | Poles | Trip | Circuit Description | Load |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| HL | AT-201 | 20 A | 3 | 12 | 12 | 1 | 3.00 | 2.67 | | | | | 2 | 12 | 12 | 3 | 20 A | AT-214 | HL |
| -- | -- | -- | -- | 12 | -- | 3 | | | 3.00 | 2.67 | | | 4 | -- | 12 | -- | -- | -- | -- |
| -- | -- | -- | -- | 12 | -- | 5 | | | | | 3.00 | 2.67 | 6 | -- | 12 | -- | -- | -- | -- |
| HL | AT-202 | 20 A | 3 | 12 | 12 | 7 | 4.00 | 2.67 | | | | | 8 | 12 | 12 | 3 | 20 A | AT-216 | HL |
| -- | -- | -- | -- | 12 | -- | 9 | | | 4.00 | 2.67 | | | 10 | -- | 12 | -- | -- | -- | -- |
| -- | -- | -- | -- | 12 | -- | 11 | | | | | 4.00 | 2.67 | 12 | -- | 12 | -- | -- | -- | -- |
| HL | AT-203 | 20 A | 3 | 12 | 12 | 13 | 2.33 | 4.00 | | | | | 14 | 12 | 12 | 3 | 20 A | AT-218 | HL |
| -- | -- | -- | -- | 12 | -- | 15 | | | 2.33 | 4.00 | | | 16 | -- | 12 | -- | -- | -- | -- |
| -- | -- | -- | -- | 12 | -- | 17 | | | | | 2.33 | 4.00 | 18 | -- | 12 | -- | -- | -- | -- |
| HL | AT-204 | 20 A | 3 | 12 | 12 | 19 | 1.67 | 2.00 | | | | | 20 | 12 | 12 | 1 | 20 A | AT-219 | HL |
| -- | -- | -- | -- | 12 | -- | 21 | | | 1.67 | 1.00 | | | 22 | 12 | 12 | 1 | 20 A | AT-220 | HL |
| -- | -- | -- | -- | 12 | -- | 23 | | | | | 1.67 | 2.50 | 24 | 12 | 12 | 1 | 20 A | AT-221 | HL |
| HL | AT-205 | 20 A | 1 | 12 | 12 | 25 | 1.50 | 1.00 | | | | | 26 | 12 | 12 | 1 | 20 A | AT-222 | HL |
| HL | AT-206 | 20 A | 1 | 12 | 12 | 27 | | | 3.00 | 6.67 | | | 28 | 10 | 8 | 3 | 40 A | AT-223 | HL |
| HL | AT-207 | 20 A | 1 | 12 | 12 | 29 | | | | | 3.00 | 6.67 | 30 | -- | 8 | -- | -- | -- | -- |
| HL | AT-210 | 20 A | 3 | 12 | 12 | 31 | 2.00 | 6.67 | | | | | 32 | -- | 8 | -- | -- | -- | -- |
| -- | -- | -- | -- | 12 | -- | 33 | | | 2.00 | 4.33 | | | 34 | 10 | 10 | 3 | 20 A | AT-227 | HL |
| -- | -- | -- | -- | 12 | -- | 35 | | | | | 2.00 | 4.33 | 36 | -- | 10 | -- | -- | -- | -- |
| HL | AT-232 | 20 A | 1 | 12 | 12 | 37 | 1.00 | 4.33 | | | | | 38 | -- | 10 | -- | -- | -- | -- |
| -- | Space | -- | -- | | | 39 | | | 0.00 | 1.50 | | | 40 | 12 | 12 | 1 | 20 A | AT-231 | HL |
| -- | Space | -- | -- | | | 41 | | | | | 0.00 | 0.00 | 42 | | | -- | -- | Space | -- |
| | | | | | | Total Load: | 38.83 | | 38.83 kVA | | 38.83 | | | | | | | | |
| | | | | | | Total Amps: | 140 A | | 140 A | | 140 A | | | | | | | | |

| Category Load | Load W | Category Load | Load W |
|---|---|---|---|
| Lighting | | Heating | 116500 VA |
| Receptacles | | Cooling | |
| Motors | | Misc. Equipment | |
| Kitchen | | | |

| Panel Totals | |
|---|---|
| Total Conn. Load: | 116500 VA |
| Total Est. Demand: | 116500 W |
| Total Conn. Current: | 140 A |
| Total Est. Demand | 140 A |

Notes:

## L2N3 — ELECTRICAL PANEL

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| AMP | 225 A | VOLTS/PHASE: | 120/208 Wye/3 | SECTION(S): | 1 | A.I.C. Rating: | 10 KAIC |
| MAINS: | MLO | WIRE W/GRD. | 4 | TYPE: | NQOD | MOUNTING: | Surface |
| MCB | | CIRCUIT: | 42 | BUS: | CU | NEMA: | Type 1 |

| Load | Load Name | Trip | Poles | Wire P&N | Wire Gnd | CCT # | A | | B | | C | | CCT # | Wire Gnd | Wire P&N | Poles | Trip | Load Name | Load |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| R | HEAD WALL BOX - RT SIMULATION | 20 A | 1 | 12 | 12 | 1 | 0.50 | 0.50 | | | | | 2 | 12 | 12 | 1 | 20 A | HEAD WALL BOX - RT SIMULATION | R |
| R | HEAD WALL BOX - RT SIMULATION | 20 A | 1 | 12 | 12 | 3 | | | 0.50 | 0.50 | | | 4 | 12 | 12 | 1 | 20 A | HEAD WALL BOX - RT SIMULATION | R |
| R | HEAD WALL BOX - RT SIMULATION | 20 A | 1 | 12 | 12 | 5 | | | | | 0.50 | 0.50 | 6 | 12 | 12 | 1 | 20 A | HEAD WALL BOX - RT SIMULATION | R |
| R | HEAD WALL BOX - RT SIMULATION | 20 A | 1 | 12 | 12 | 7 | 0.50 | 0.50 | | | | | 8 | 12 | 12 | 1 | 20 A | HEAD WALL BOX - RT SIMULATION | R |
| R | HEAD WALL BOX - RT ICU SIM 243 | 20 A | 1 | 12 | 12 | 9 | | | 0.50 | 0.50 | | | 10 | 12 | 12 | 1 | 20 A | HEAD WALL BOX - RT ICU SIM 243 | R |
| R | RECEPS - RT SIMULATION | 20 A | 1 | 12 | 12 | 11 | | | | | 0.72 | 0.72 | 12 | 12 | 12 | 1 | 20 A | RECEPS - RT SIMULATION | R |
| R | RECEPS - RT SIMULATION CTRL | 20 A | 1 | 12 | 12 | 13 | 0.72 | 0.72 | | | | | 14 | 12 | 12 | 1 | 20 A | RECEPS - RT SIMULATION | R |
| R | RECEPS - RT SIMULATION | 20 A | 1 | 12 | 12 | 15 | | | 0.72 | 0.54 | | | 16 | 12 | 12 | 1 | 20 A | RECEPS - RT ICU SIM 242 | R |
| R | RECEPS - RT ICU SIM 242 | 20 A | 1 | 12 | 12 | 17 | | | | | 0.36 | 0.36 | 18 | 12 | 12 | 1 | 20 A | RECEPS - RT ICU SIM 243 | R |
| R | RECEPS - RT ICU SIM 243 | 20 A | 1 | 12 | 12 | 19 | 0.36 | 0.72 | | | | | 20 | 12 | 12 | 1 | 20 A | RECEPS - RT SIMULATION STORAGE | R |
| R | RECEPS - RT SIMULATION STORAGE | 20 A | 1 | 12 | 12 | 21 | | | 0.72 | 0.72 | | | 22 | 12 | 12 | 1 | 20 A | RECEPS - RT SIMULATION STORAGE | R |
| R | RECEPS - RT SIMULATION STORAGE | 20 A | 1 | 12 | 12 | 23 | | | | | 0.72 | 0.72 | 24 | 12 | 12 | 1 | 20 A | RECEPS - RT CLASSROOM 239 | R |
| L; R | RECEP - BREAK ROOM SINK 226 | 20 A | 1 | 12 | 12 | 25 | 1.08 | 1.08 | | | | | 26 | 12 | 12 | 1 | 20 A | RECEP - BREAK ROOM 226 | R |
| R | RECEP - BREAK ROOM 226 | 20 A | 1 | 12 | 12 | 27 | | | 1.08 | 0.18 | | | 28 | 12 | 12 | 1 | 20 A | RECEP - BREAK ROOM 226 | R |
| R | RECEP - BREAKROOM 226 | 20 A | 1 | 12 | 12 | 29 | | | | | 1.08 | 0.00 | 30 | | | 1 | 20 A | Spare | -- |
| -- | Space | -- | -- | | | 31 | 0.00 | 0.00 | | | | | 32 | | | 1 | 20 A | Spare | -- |
| -- | Space | -- | -- | | | 33 | | | 0.00 | 0.00 | | | 34 | | | 1 | 20 A | Spare | -- |
| -- | Space | -- | -- | | | 35 | | | | | 0.00 | 0.00 | 36 | | | 1 | 20 A | Spare | -- |
| -- | Space | -- | -- | | | 37 | 0.00 | 0.00 | | | | | 38 | | | 1 | 20 A | Spare | -- |
| -- | Space | -- | -- | | | 39 | | | 0.00 | 0.00 | | | 40 | | | 1 | 20 A | Spare | -- |
| -- | Space | -- | -- | | | 41 | | | | | 0.00 | 0.00 | 42 | | | 1 | 20 A | Spare | -- |
| | | | | | | Total Load: | 6.68 kVA | | 5.96 kVA | | 5.68 kVA | | | | | | | | |
| | | | | | | Total Amps: | 56 A | | 50 A | | 47 A | | | | | | | | |

| Category Load | Load W | Category Load | Load W |
|---|---|---|---|
| Lighting | 0 VA | Heating | |
| Receptacles | 18320 VA | Cooling | |
| Motors | | Misc. Equipment | |
| Kitchen | | | |

| Panel Totals | |
|---|---|
| Total Conn. Load: | 18320 VA |
| Total Est. Demand: | 14160 W |
| Total Conn. Current: | 51 A |
| Total Est. Demand | 39 A |

Notes:

## H2N2 — ELECTRICAL PANEL

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| AMP | 400 A | VOLTS/PHASE: | 480/277 Wye/3 | SECTION(S): | 1 | A.I.C. Rating: | 42 KAIC |
| MAINS: | MLO | WIRE W/GRD. | 4 | TYPE: | NF | MOUNTING: | Surface |
| MCB | | CIRCUIT: | 42 | BUS: | CU | NEMA: | Type 1 |

| Load | Circuit Description | Trip | Poles | Wire P&N | Wire Gnd | CCT # | A | | B | | C | | CCT # | Wire Gnd | Wire P&N | Poles | Trip | Circuit Description | Load |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| HL | AT-211 | 20 A | 3 | 12 | 12 | 1 | 3.33 | 4.67 | | | | | 2 | 10 | 10 | 3 | 30 A | AT-230 | HL |
| -- | -- | -- | -- | -- | -- | 3 | | | 3.33 | 4.67 | | | 4 | -- | -- | -- | -- | -- | -- |
| -- | -- | -- | -- | -- | -- | 5 | | | | | 3.33 | 4.67 | 6 | -- | -- | -- | -- | -- | -- |
| HL | AT-212 | 20 A | 3 | 12 | 12 | 7 | 2.67 | 0.00 | | | | | 8 | | | -- | -- | Space | -- |
| -- | -- | -- | -- | -- | -- | 9 | | | 2.67 | 0.00 | | | 10 | | | -- | -- | Space | -- |
| -- | -- | -- | -- | -- | -- | 11 | | | | | 2.67 | 1.67 | 12 | 12 | 12 | 3 | 20 A | AT-208 | HL |
| HL | AT-215 | 20 A | 1 | 12 | 12 | 13 | 2.00 | 1.67 | | | | | 14 | -- | -- | -- | -- | -- | -- |
| HL | AT-217 | 20 A | 3 | 12 | 12 | 15 | | | 2.67 | 1.67 | | | 16 | -- | -- | -- | -- | -- | -- |
| -- | -- | -- | -- | -- | -- | 17 | | | | | 2.67 | 2.67 | 18 | 12 | 12 | 3 | 20 A | AT-213 | HL |
| -- | -- | -- | -- | -- | -- | 19 | 2.67 | 2.67 | | | | | 20 | -- | -- | -- | -- | -- | -- |
| HL | AT-225 | 20 A | 1 | 12 | 12 | 21 | | | 1.50 | 2.67 | | | 22 | -- | -- | -- | -- | -- | -- |
| HL | AT-228 | 30 A | 3 | 10 | 10 | 23 | | | | | 5.67 | 0.00 | 24 | | | -- | -- | Space | -- |
| -- | -- | -- | -- | -- | -- | 25 | 5.67 | 0.00 | | | | | 26 | | | -- | -- | Space | -- |
| -- | -- | -- | -- | -- | -- | 27 | | | 5.67 | 0.00 | | | 28 | | | -- | -- | Space | -- |
| HL | AT-229 | 20 A | 3 | 12 | 12 | 29 | | | | | 4.00 | 0.00 | 30 | | | -- | -- | Space | -- |
| -- | -- | -- | -- | -- | -- | 31 | 4.00 | 0.00 | | | | | 32 | | | -- | -- | Space | -- |
| -- | -- | -- | -- | -- | -- | 33 | | | 4.00 | 0.00 | | | 34 | | | -- | -- | Space | -- |
| HL | AT-209 | 20 A | 3 | 12 | 12 | 35 | | | | | 2.33 | 0.00 | 36 | | | -- | -- | Space | -- |
| -- | -- | -- | -- | -- | -- | 37 | 2.33 | 0.00 | | | | | 38 | | | -- | -- | Space | -- |
| -- | -- | -- | -- | -- | -- | 39 | | | 2.33 | 0.00 | | | 40 | | | -- | -- | Space | -- |
| HL | RADIANT PANEL | 20 A | 1 | 12 | 12 | 41 | | | | | 0.38 | 0.00 | 42 | | | -- | -- | Space | -- |
| | | | | | | Total Load: | 31.67 | | 31.17 kVA | | 30.04 | | | | | | | | |
| | | | | | | Total Amps: | 114 A | | 113 A | | 108 A | | | | | | | | |

| Category Load | Load W | Category Load | Load W |
|---|---|---|---|
| Lighting | | Heating | 92875 VA |
| Receptacles | | Cooling | |
| Motors | | Misc. Equipment | |
| Kitchen | | | |

| Panel Totals | |
|---|---|
| Total Conn. Load: | 92875 VA |
| Total Est. Demand: | 92875 W |
| Total Conn. Current: | 112 A |
| Total Est. Demand | 112 A |

Notes:

## L2N1 — ELECTRICAL PANEL

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| AMP | 225 A | VOLTS/PHASE: | 120/208 Wye/3 | SECTION(S): | 1 | A.I.C. Rating: | 10 KAIC |
| MAINS: | MCB | WIRE W/GRD. | 4 | TYPE: | NQOD | MOUNTING: | Surface |
| MCB | 225 A | CIRCUIT: | 42 | BUS: | CU | NEMA: | Type 1 |

| Load | Load Name | Trip | Poles | Wire P&N | Wire Gnd | CCT # | A | | B | | C | | CCT # | Wire Gnd | Wire P&N | Poles | Trip | Load Name | Load |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| R | RECEPS - STUDENT GATHERING | 20 A | 1 | 12 | 12 | 1 | 0.72 | 0.54 | | | | | 2 | 12 | 12 | 1 | 20 A | RECEPS - EMS CLASSROOM #2 | R |
| R | RECEPS - CANDY VENDING | 20 A | 1 | 12 | 12 | 3 | | | 1.08 | 0.36 | | | 4 | 12 | 12 | 1 | 20 A | RECEPS - EMS CLASSROOM #2 | R |
| R | RECEPS - SODA VENDING | 20 A | 1 | 12 | 12 | 5 | | | | | 1.08 | 0.18 | 6 | 12 | 12 | 1 | 20 A | RECEP- RTU-3 | R |
| R | RECEPS - CORRIDOR/JAN/STAIRS | 20 A | 1 | 12 | 12 | 7 | 0.72 | 0.18 | | | | | 8 | 12 | 12 | 1 | 20 A | RECEPS - FIRE SCIENCE CLASSROOM | R |
| R | RECEPS - OFFICE #15 | 20 A | 1 | 12 | 12 | 9 | | | 0.54 | 0.72 | | | 10 | 12 | 12 | 1 | 20 A | RECEPS - PHYS. THERAPY CLSSRM | R |
| R | RECEPS - OFFICE #14 | 20 A | 1 | 12 | 12 | 11 | | | | | 0.54 | 0.90 | 12 | 12 | 12 | 1 | 20 A | RECEPS - PHYS. THERAPY CLSSRM | R |
| R | RECEPS - OFFICE #13 | 20 A | 1 | 12 | 12 | 13 | 0.54 | 1.70 | | | | | 14 | 12 | 12 | 1 | 20 A | LIGHTS - UNDERCABINET NORTH | L |
| R | RECEPS - OFFICE #12 | 20 A | 1 | 12 | 12 | 15 | | | 0.54 | 0.18 | | | 16 | 12 | 12 | 1 | 20 A | RECEP - CANDY VENDING | R |
| R | RECEPS - OFFICE #11 | 20 A | 1 | 12 | 12 | 17 | | | | | 0.54 | 0.72 | 18 | 12 | 12 | 1 | 20 A | RECEP - SODA VENDING | R |
| R | RECEPS - OFFICE #10 | 20 A | 1 | 12 | 12 | 19 | 0.54 | 0.36 | | | | | 20 | 12 | 12 | 1 | 20 A | RECEPS - PHYSICAL THER LAB A/V | R |
| R | RECEPS - OFFICE #9 | 20 A | 1 | 12 | 12 | 21 | | | 0.54 | 0.36 | | | 22 | 12 | 12 | 1 | 20 A | RECEPS - NORTH RESTROOMS | R |
| R | RECEPS - OFFICE #8 | 20 A | 1 | 12 | 12 | 23 | | | | | 0.54 | 0.90 | 24 | 12 | 12 | 1 | 20 A | RECEPS - NURSING CLSRM #1 | R |
| R | RECEPS - CORRIDOR/RESTROOM | 20 A | 1 | 12 | 12 | 25 | 0.90 | 0.18 | | | | | 26 | 12 | 12 | 1 | 20 A | SECURITY CAMERA | O |
| R | RECEPS - RT CLASSROOM | 20 A | 1 | 12 | 12 | 27 | | | 0.36 | 0.72 | | | 28 | 12 | 12 | 1 | 20 A | RECEPS - PHYSICAL THER CLASSROOM | R |
| R | RECEPS - RT CLASSROOM | 20 A | 1 | 12 | 12 | 29 | | | | | 0.72 | 0.72 | 30 | 12 | 12 | 1 | 20 A | RECEPS - PHYSICAL THER LAB (S. | R |
| R | RECEPS - PHYSICAL THER LAB | 20 A | 1 | 12 | 12 | 31 | 0.72 | 0.72 | | | | | 32 | 12 | 12 | 1 | 20 A | RECEPS - PHYSICAL THER LAB (COUNTER) | R |
| R | RECEPS - H.I. LECTURE CLASSROOM | 20 A | 1 | 12 | 12 | 33 | | | 0.36 | 0.72 | | | 34 | 12 | 12 | 1 | 20 A | RECEPS - PHYSICAL THER LAB (COUNTER) | R |
| R | RECEPS - CORRIDOR | 20 A | 1 | 12 | 12 | 35 | | | | | 0.72 | 0.72 | 36 | 12 | 12 | 1 | 20 A | RECEPS - PHYSICAL THER LAB (COUNTER) | R |
| R | RECEPS - EMS CLASSROOM #1 | 20 A | 1 | 12 | 12 | 37 | 0.84 | 0.54 | | | | | 38 | 12 | 12 | 1 | 20 A | RECEPS - PHYSICAL THER LAB | R |
| R | RECEPS - EMS CLASSROOM #1 | 20 A | 1 | 12 | 12 | 39 | | | 0.72 | 0.00 | | | 40 | | | 1 | 20 A | Spare | -- |
| -- | Space | -- | -- | | | 41 | | | | | 0.00 | 0.00 | 42 | | | 1 | 20 A | Spare | -- |
| | | | | | | Total Load: | 22.82 | | 20.28 kVA | | 21.36 | | | | | | | | |
| | | | | | | Total Amps: | 190 A | | 169 A | | 178 A | | | | | | | | |

| Category Load | Load W | Category Load | Load W |
|---|---|---|---|
| Lighting | 1702 VA | Heating | |
| Receptacles | 62580 VA | Cooling | |
| Motors | | Misc. Equipment | |
| Kitchen | | | |

| Panel Totals | |
|---|---|
| Total Conn. Load: | 64282 VA |
| Total Est. Demand: | 37992 W |
| Total Conn. Current: | 178 A |
| Total Est. Demand | 105 A |

Notes: 1) PROVIDE FEED THROUGH LUGS.

## L2S1 — ELECTRICAL PANEL

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| AMP | 225 A | VOLTS/PHASE: | 120/208 Wye/3 | SECTION(S): | 1 | A.I.C. Rating: | 10 KAIC |
| MAINS: | MCB | WIRE W/GRD. | 4 | TYPE: | NQOD | MOUNTING: | Surface |
| MCB | 225 A | CIRCUIT: | 42 | BUS: | CU | NEMA: | Type 1 |

| Load | Load Name | Trip | Poles | Wire P&N | Wire Gnd | CCT # | A | | B | | C | | CCT # | Wire Gnd | Wire P&N | Poles | Trip | Load Name | Load |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| R | ADJUNCT #1 | 20 A | 1 | 12 | 12 | 1 | 0.54 | 0.72 | | | | | 2 | 12 | 12 | 1 | 20 A | RECEPS - SODA MACHINE | R |
| R | RECEPS - OFFICE #1 | 20 A | 1 | 12 | 12 | 3 | | | 0.54 | 0.18 | | | 4 | 12 | 12 | 1 | 20 A | RECEPS - CANDY MACHINE | R |
| R | RECEPS - OFFICE #2 | 20 A | 1 | 12 | 12 | 5 | | | | | 0.54 | 0.18 | 6 | 12 | 12 | 1 | 20 A | RECEPS - CANDY MACHINE | R |
| R | RECEPS - OFFICE #3 | 20 A | 1 | 12 | 12 | 7 | 0.54 | 0.54 | | | | | 8 | 12 | 12 | 1 | 20 A | RECEPS - ADMIN OFFICE #3 | R |
| R | RECEPS - OFFICE #4 | 20 A | 1 | 12 | 12 | 9 | | | 0.54 | 0.54 | | | 10 | 12 | 12 | 1 | 20 A | RECEPS - ADMIN OFFICE #4 | R |
| R | RECEPS - OFFICE #5 | 20 A | 1 | 12 | 12 | 11 | | | | | 0.54 | 0.90 | 12 | 12 | 12 | 1 | 20 A | RECEPS - WTR FNTN/JAN/IT/RESTRMS | R |
| R | RECEPS - DEAN'S ASSISTANT | 20 A | 1 | 12 | 12 | 13 | 0.90 | 1.06 | | | | | 14 | 12 | 12 | 1 | 20 A | LIGHTS - UNDERCABINET SOUTH | L |
| R | RECEPS - DEAN'S OFFICE | 20 A | 1 | 12 | 12 | 15 | | | 0.90 | 1.20 | | | 16 | 12 | 12 | 1 | 20 A | LIGHTS - UNDERCABINET SOUTH | L |
| R | RECEPS - OFFICE #6 | 20 A | 1 | 12 | 12 | 17 | | | | | 0.54 | 2.15 | 18 | 10 | 10 | 2 | 30 A | RECEP - I.T. ROOM | R |
| R | RECEPS - OFFICE #7 | 20 A | 1 | 12 | 12 | 19 | 0.54 | 2.15 | | | | | 20 | -- | 10 | -- | -- | -- | -- |
| R | RECEPS - CORRIDOR | 20 A | 1 | 12 | 12 | 21 | | | 0.54 | 0.72 | | | 22 | 12 | 12 | 1 | 20 A | RECEPS - STUDENT GATHERING | R |
| R | RECEPS - PRINTER ROOM | 20 A | 1 | 12 | 12 | 23 | | | | | 0.96 | 0.36 | 24 | 12 | 12 | 1 | 20 A | RECEPS - PHYS THER CLSRM A/V | R |
| R | RECEPS - CENTRAL CONFERENCE 225 | 20 A | 1 | 12 | 12 | 25 | 0.72 | 1.08 | | | | | 26 | 12 | 12 | 1 | 20 A | RECEPS - BREAK ROOM 226 | R |
| R | RECEPS - BREAK ROOM FRIDGE | 20 A | 1 | 12 | 12 | 27 | | | 0.36 | 0.00 | | | 28 | | | 1 | 20 A | Spare | -- |
| R | RECEPS - BREAK ROOM/STORAGE | 20 A | 1 | 12 | 12 | 29 | | | | | 0.36 | 0.00 | 30 | | | 1 | 20 A | Spare | -- |
| R | RECEPS - H.I. CLASSROOM #3 | 20 A | 1 | 12 | 12 | 31 | 0.72 | 0.00 | | | | | 32 | | | 1 | 20 A | Spare | -- |
| R | RECEPS - H.I. CLASSROOM #3 | 20 A | 1 | 12 | 12 | 33 | | | 0.54 | 0.00 | | | 34 | | | 1 | 20 A | Spare | -- |
| R | RECEPS - CORRIDOR | 20 A | 1 | 12 | 12 | 35 | | | | | 0.90 | 0.00 | 36 | 12 | 12 | 1 | 20 A | 240V - Fusible 30A | Powe |
| R | RECEPS - STUDENT GATH/CORR | 20 A | 1 | 12 | 12 | 37 | 0.54 | 0.54 | | | | | 38 | 12 | 12 | 1 | 20 A | EXTERIOR S.E. SECURITY CAMERA | O |
| R | RECEPS - VENDING 205 / HALLWAY | 20 A | 1 | 12 | 12 | 39 | | | 0.36 | 0.00 | | | 40 | | | -- | -- | Space | -- |
| R | RECEPS - WORK ROOM | 20 A | 1 | 12 | 12 | 41 | | | | | 1.68 | 0.00 | 42 | | | -- | -- | Space | -- |
| | | | | | | Total Load: | 15.63 | | 12.68 kVA | | 13.79 | | | | | | | | |
| | | | | | | Total Amps: | 130 A | | 106 A | | 115 A | | | | | | | | |

| Category Load | Load W | Category Load | Load W |
|---|---|---|---|
| Lighting | 2254 VA | Heating | |
| Receptacles | 39300 VA | Cooling | |
| Motors | | Misc. Equipment | |
| Kitchen | | | |

| Panel Totals | |
|---|---|
| Total Conn. Load: | 41554 VA |
| Total Est. Demand: | 26904 W |
| Total Conn. Current: | 115 A |
| Total Est. Demand | 75 A |

Notes: 1) PROVIDE FEED THROUGH LUGS.

## H2S1 — ELECTRICAL PANEL

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| AMP | 400 A | VOLTS/PHASE: | 480/277 Wye/3 | SECTION(S): | 1 | A.I.C. Rating: | 42KAIC |
| MAINS: | MLO | WIRE W/GRD. | 4 | TYPE: | NF | MOUNTING: | Surface |
| MCB | | CIRCUIT: | 42 | BUS: | CU | NEMA: | Type 1 |

| Load | Circuit Description | Trip | Poles | Wire P&N | Wire Gnd | CCT # | A | | B | | C | | CCT # | Wire Gnd | Wire P&N | Poles | Trip | Circuit Description | Load |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| O | WH1- I.C.U. SIM #2 275 | 30 A | 3 | 10 | 10 | 1 | 6.00 | 6.00 | | | | | 2 | 10 | 10 | 3 | 30 A | WH1 - JANITOR 213 | O |
| -- | -- | -- | -- | 10 | -- | 3 | | | 6.00 | 6.00 | | | 4 | -- | 10 | -- | -- | -- | -- |
| -- | -- | -- | -- | 10 | -- | 5 | | | | | 6.00 | 6.00 | 6 | -- | 10 | -- | -- | -- | -- |
| -- | Spare | 20 A | 1 | | | 7 | 0.00 | 8.00 | | | | | 8 | 10 | 8 | 3 | 40 A | WH2 - MEN'S 215 | O |
| -- | Spare | 20 A | 1 | | | 9 | | | 0.00 | 8.00 | | | 10 | -- | 8 | -- | -- | -- | -- |
| -- | Spare | 20 A | 1 | | | 11 | | | | | 0.00 | 8.00 | 12 | -- | 8 | -- | -- | -- | -- |
| -- | Space | -- | -- | | | 13 | 0.00 | 6.00 | | | | | 14 | 10 | 10 | 3 | 30 A | WH1 - I.C.U. SIM #1 276 | O |
| -- | Space | -- | -- | | | 15 | | | 0.00 | 6.00 | | | 16 | -- | 10 | -- | -- | -- | -- |
| -- | Space | -- | -- | | | 17 | | | | | 0.00 | 6.00 | 18 | -- | 10 | -- | -- | -- | -- |
| -- | Space | -- | -- | | | 19 | 0.00 | 6.00 | | | | | 20 | 10 | 10 | 3 | 30 A | WH1 - E.M.S. SIMLAB 264 | O |
| -- | Space | -- | -- | | | 21 | | | 0.00 | 6.00 | | | 22 | -- | 10 | -- | -- | -- | -- |
| -- | Space | -- | -- | | | 23 | | | | | 0.00 | 6.00 | 24 | -- | 10 | -- | -- | -- | -- |
| -- | Space | -- | -- | | | 25 | 0.00 | 6.00 | | | | | 26 | 10 | 10 | 3 | 30 A | WH1 - E.M.S. SIMLAB 264 | O |
| -- | Space | -- | -- | | | 27 | | | 0.00 | 6.00 | | | 28 | -- | 10 | -- | -- | -- | -- |
| -- | Space | -- | -- | | | 29 | | | | | 0.00 | 6.00 | 30 | -- | 10 | -- | -- | -- | -- |
| -- | Space | -- | -- | | | 31 | 0.00 | 6.00 | | | | | 32 | 10 | 10 | 3 | 30 A | WH1 - PHYSICAL THERAPY CLASSROOM | O |
| -- | Space | -- | -- | | | 33 | | | 0.00 | 6.00 | | | 34 | -- | 10 | -- | -- | -- | -- |
| -- | Space | -- | -- | | | 35 | | | | | 0.00 | 6.00 | 36 | -- | 10 | -- | -- | -- | -- |
| -- | Space | -- | -- | | | 37 | 0.00 | 0.00 | | | | | 38 | | | -- | -- | Space | -- |
| -- | Space | -- | -- | | | 39 | | | 0.00 | 0.00 | | | 40 | | | -- | -- | Space | -- |
| -- | Space | -- | -- | | | 41 | | | | | 0.00 | 0.00 | 42 | | | -- | -- | Space | -- |
| | | | | | | Total Load: | 82.83 | | 82.83 kVA | | 82.83 | | | | | | | | |
| | | | | | | Total Amps: | 299 A | | 299 A | | 299 A | | | | | | | | |

| Category Load | Load W | Category Load | Load W |
|---|---|---|---|
| Lighting | | Heating | 116500 VA |
| Receptacles | | Cooling | |
| Motors | | Misc. Equipment | 132000 VA |
| Kitchen | | | |

| Panel Totals | |
|---|---|
| Total Conn. Load: | 248500 VA |
| Total Est. Demand: | 248500 W |
| Total Conn. Current: | 299 A |
| Total Est. Demand | 299 A |

Notes:

## L2N2 — ELECTRICAL PANEL

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| AMP | 225 A | VOLTS/PHASE: | 120/208 Wye/3 | SECTION(S): | 1 | A.I.C. Rating: | 10 KAIC |
| MAINS: | MLO | WIRE W/GRD. | 4 | TYPE: | NQOD | MOUNTING: | Surface |
| MCB | | CIRCUIT: | 42 | BUS: | CU | NEMA: | Type 1 |

| Load | Load Name | Trip | Poles | Wire P&N | Wire Gnd | CCT # | A | | B | | C | | CCT # | Wire Gnd | Wire P&N | Poles | Trip | Load Name | Load |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| R | RECEPS - PHYSICAL THER LAB | 20 A | 1 | 12 | 12 | 1 | 0.54 | 0.54 | | | | | 2 | 12 | 12 | 1 | 20 A | RECEPS - PHYSICAL THER LAB | R |
| R | RECEPS - PHYSICAL THER LAB | 20 A | 1 | 12 | 12 | 3 | | | 0.54 | 0.54 | | | 4 | 12 | 12 | 1 | 20 A | RECEPS - PHYSICAL THER LAB | R |
| R | RECEPS - PHYSICAL THER LAB | 20 A | 1 | 12 | 12 | 5 | | | | | 0.54 | 0.36 | 6 | 12 | 12 | 1 | 20 A | RECEPS - SLAT WALL STORAGE | R |
| R | RECEPS - E.M.S. SIMLAB | 20 A | 1 | 12 | 12 | 7 | 0.36 | 0.54 | | | | | 8 | 12 | 12 | 1 | 20 A | RECEPS - E.M.S BREAKOUT 1 | R |
| R | RECEPS - E.M.S. BREAKOUT 2 | 20 A | 1 | 12 | 12 | 9 | | | 0.54 | 0.54 | | | 10 | 12 | 12 | 1 | 20 A | RECEPS - E.M.S BREAKOUT 3 | R |
| R | RECEPS - E.M.S. BREAKOUT 4 | 20 A | 1 | 12 | 12 | 11 | | | | | 0.54 | 0.54 | 12 | 12 | 12 | 1 | 20 A | RECEPS - E.M.S. BREAKOUT 5 | R |
| R | RECEPS - BREAKOUT 4 STOR 2 | 20 A | 1 | 12 | 12 | 13 | 0.36 | 0.36 | | | | | 14 | 12 | 12 | 1 | 20 A | RECEPS - I.C.U. SIM 2 (COUNTER) | R |
| R | RECEPS - I.C.U. SIM 2 | 20 A | 1 | 12 | 12 | 15 | | | 0.36 | 0.36 | | | 16 | 12 | 12 | 1 | 20 A | RECEPS - I.C.U. SIM 2 | R |
| R | RECEPS - I.C.U. SIM 2 | 20 A | 1 | 12 | 12 | 17 | | | | | 0.36 | 0.36 | 18 | 12 | 12 | 1 | 20 A | RECEPS I.C.U. SIM 1 (COUNTER) | R |
| R | RECEPS - I.C.U. SIM 1 | 20 A | 1 | 12 | 12 | 19 | 0.36 | 0.36 | | | | | 20 | 12 | 12 | 1 | 20 A | RECEPS - I.C.U. SIM 1 | R |
| R | RECEPS - I.C.U. SIM 1 | 20 A | 1 | 12 | 12 | 21 | | | 0.36 | 0.54 | | | 22 | 12 | 12 | 1 | 20 A | RECEPS - E.M.S. SIM LAB | R |
| R | RECEPS - E.M.S. SIM LAB | 20 A | 1 | 12 | 12 | 23 | | | | | 0.36 | 0.72 | 24 | 12 | 12 | 1 | 20 A | RECEPS - E.M.S. SIM LAB | R |
| R | RECEPS - E.M.S. SI M LAB (COUNTER) | 20 A | 1 | 12 | 12 | 25 | 0.36 | 0.36 | | | | | 26 | 12 | 12 | 1 | 20 A | RECEPS - E.M.S. SIM LAB (COUNTER) | R |
| R | RECEPS - FIRE SCIENCE CLASSROOM | 20 A | 1 | 12 | 12 | 27 | | | 0.72 | 0.72 | | | 28 | 12 | 12 | 1 | 20 A | RECEPS - FIRE SCIENCE CLASSROOM | R |
| R | RECEPS - FIRE SCIENCE CLASSROOM | 20 A | 1 | 12 | 12 | 29 | | | | | 0.72 | 0.36 | 30 | 12 | 12 | 1 | 20 A | RECEPS - FIRE SCIENCE CLSASROOM | R |
| R | RECEPS - E.M.S. CLASSROOM 2 | 20 A | 1 | 12 | 12 | 31 | 0.54 | 0.54 | | | | | 32 | 12 | 12 | 1 | 20 A | RECEPS - E.M.S. CLASSROOM 1 | R |
| R | RECEPS - RT SIMULATION | 20 A | 1 | 12 | 12 | 33 | | | 0.36 | 0.00 | | | 34 | | | -- | -- | Space | -- |
| R | HEAD WALL BOX - RT SIMULATION | 20 A | 1 | 12 | 12 | 35 | | | | | 0.50 | 0.50 | 36 | 12 | 12 | 1 | 20 A | HEAD WALL BOX - RT SIMULATION | R |
| R | HEAD WALL BOX - RT SIMULATION | 20 A | 1 | 12 | 12 | 37 | 0.50 | 0.50 | | | | | 38 | 12 | 12 | 1 | 20 A | HEAD WALL BOX - RT SIMULATION | R |
| R | HEAD WALL BOX - RT SIMULATION | 20 A | 1 | 12 | 12 | 39 | | | 0.50 | 0.50 | | | 40 | 12 | 12 | 1 | 20 A | HEAD WALL BOX - RT SIMULATION | R |
| R | HEAD WALL BOX - RT ICU SIM | 20 A | 1 | 12 | 12 | 41 | | | | | 0.50 | 0.50 | 42 | 12 | 12 | 1 | 20 A | HEAD WALL BOX - RT ICU SIM | R |
| | | | | | | Total Load: | 12.90 | | 12.54 kVA | | 12.54 | | | | | | | | |
| | | | | | | Total Amps: | 108 A | | 105 A | | 105 A | | | | | | | | |

| Category Load | Load W | Category Load | Load W |
|---|---|---|---|
| Lighting | 0 VA | Heating | |
| Receptacles | 37980 VA | Cooling | |
| Motors | | Misc. Equipment | |
| Kitchen | | | |

| Panel Totals | |
|---|---|
| Total Conn. Load: | 37980 VA |
| Total Est. Demand: | 23990 W |
| Total Conn. Current: | 105 A |
| Total Est. Demand | 67 A |

Notes: 1) PROVIDE FEED THROUGH LUGS.

## L2S2 — ELECTRICAL PANEL

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| AMP | 225 A | VOLTS/PHASE: | 120/208 Wye/3 | SECTION(S): | 1 | A.I.C. Rating: | 10 KAIC |
| MAINS: | MLO | WIRE W/GRD. | 4 | TYPE: | NQOD | MOUNTING: | Surface |
| MCB | | CIRCUIT: | 42 | BUS: | CU | NEMA: | TYPE 1 |

| Load | Load Name | Trip | Poles | Wire P&N | Wire Gnd | CCT # | A | | B | | C | | CCT # | Wire Gnd | Wire P&N | Poles | Trip | Load Name | Load |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| -- | Space | -- | -- | | | 1 | 0.00 | 0.40 | | | | | 2 | 12 | 12 | 1 | 20 A | J BOX RECEPS - H.I. CLASSROOM 3 | R |
| R | RECEPS - CONFERENCE 225 & TV | 20 A | 1 | 12 | 12 | 3 | | | 0.54 | 0.40 | | | 4 | 12 | 12 | 1 | 20 A | J BOX RECEPS - H.I. CLASSROOM 3 | R |
| R | RECEPS - CONFERENCE 225 | 20 A | 1 | 12 | 12 | 5 | | | | | 0.18 | 0.40 | 6 | 12 | 12 | 1 | 20 A | J BOX RECEPS - H.I. CLASSROOM 3 | R |
| R | J BOX RECEPS - H.I. CLASSROOM 3 | 20 A | 1 | 12 | 12 | 7 | 0.40 | 0.40 | | | | | 8 | 12 | 12 | 1 | 20 A | J BOX RECEPS - H.I. CLASSROOM 3 | R |
| R | J BOX RECEPS - H.I. CLASSROOM 3 | 20 A | 1 | 12 | 12 | 9 | | | 0.40 | 0.40 | | | 10 | 12 | 12 | 1 | 20 A | J BOX RECEPS - H.I. CLASSROOM 3 | R |
| R | J BOX RECEPS - H.I. CLASSROOM 3 | 20 A | 1 | 12 | 12 | 11 | | | | | 0.40 | 0.40 | 12 | 12 | 12 | 1 | 20 A | J BOX RECEPS - H.I. CLASSROOM 3 | R |
| R | J BOX RECPES - H.I. CLASSROOM 3 | 20 A | 1 | 12 | 12 | 13 | 0.40 | 0.40 | | | | | 14 | 12 | 12 | 1 | 20 A | J BOX RECEPS - H.I. CLASSROOM 3 | R |
| R | J BOX RECEPS - H.I. CLASSROOM 3 | 20 A | 1 | 12 | 12 | 15 | | | 0.40 | 0.40 | | | 16 | 12 | 12 | 1 | 20 A | J BOX RECEPS - H.I. CLASSROOM 3 | R |
| R | J BOX RECEPS - H.I. CLASSROOM 3 | 20 A | 1 | 12 | 12 | 17 | | | | | 0.40 | 0.40 | 18 | 12 | 12 | 1 | 20 A | J BOX RECEPS - H.I. CLASSROOM 3 | R |
| R | J BOX RECEPS - H.I. CLASSROOM 3 | 20 A | 1 | 12 | 12 | 19 | 0.40 | 0.40 | | | | | 20 | 12 | 12 | 1 | 20 A | J BOX RECEPS - H.I. CLASSROOM 3 | R |
| R | J BOX RECEPS - H.I. CLASSROOM 3 | 20 A | 1 | 12 | 12 | 21 | | | 0.40 | 0.40 | | | 22 | 12 | 12 | 1 | 20 A | J BOX RECEPS - H.I. CLASSROOM 3 | R |
| R | J BOX RECEPS - H.I. CLASSROOM 3 | 20 A | 1 | 12 | 12 | 23 | | | | | 0.40 | 0.40 | 24 | 12 | 12 | 1 | 20 A | J BOX RECEPS - H.I. CLASSROOM 3 | R |
| R | J BOX RECEPS - H.I. CLASSROOM 3 | 20 A | 1 | 12 | 12 | 25 | 0.40 | 0.18 | | | | | 26 | 12 | 12 | 1 | 20 A | RECEP - I.T. ROOM | R |
| R | J BOX RECPES - H.I. CLASSROOM 3 | 20 A | 1 | 12 | 12 | 27 | | | 0.40 | 0.50 | | | 28 | 12 | 12 | 1 | 20 A | HEAD WALL BOX - ICU SIM | R |
| R | J BOX RECEPS - H.I. CLASSROOM 3 | 20 A | 1 | 12 | 12 | 29 | | | | | 0.40 | 0.50 | 30 | 12 | 12 | 1 | 20 A | HEAD WALL BOX - ICU SIM | R |
| R | J BOX RECEPS - H.I. CLASSROOM 3 | 20 A | 1 | 12 | 12 | 31 | 0.40 | 0.50 | | | | | 32 | 12 | 12 | 1 | 20 A | HEAD WALL BOX - ICU SIM | R |
| R | J BOX RECEPS - H.I. CLASSROOM 3 | 20 A | 1 | 12 | 12 | 33 | | | 0.40 | 0.50 | | | 34 | 12 | 12 | 1 | 20 A | HEAD WALL BOX - ICU SIM | R |
| R | J BOX RECEPS - H.I. CLASSROOM 3 | 20 A | 1 | 12 | 12 | 35 | | | | | 0.40 | 0.00 | 36 | | | 1 | 20 A | Spare | -- |
| R | J BOX RECEPS - H.I. CLASSROOM 3 | 20 A | 1 | 12 | 12 | 37 | 0.40 | 0.00 | | | | | 38 | | | 1 | 20 A | Spare | -- |
| R | J BOX RECEPS - H.I. CLASSROOM 3 | 20 A | 1 | 12 | 12 | 39 | | | 0.40 | 0.00 | | | 40 | | | 1 | 20 A | Spare | -- |
| R | J BOX RECEPS - H.I. CLASSROOM 3 | 20 A | 1 | 12 | 12 | 41 | | | | | 0.40 | 0.00 | 42 | | | -- | -- | Space | -- |
| | | | | | | Total Load: | 4.68 kVA | | 5.54 kVA | | 4.68 kVA | | | | | | | | |
| | | | | | | Total Amps: | 39 A | | 46 A | | 39 A | | | | | | | | |

1

| Category Load | Load W | Category Load | Load W |
|---|---|---|---|
| Lighting | | Heating | |
| Receptacles | 14900 VA | Cooling | |
| Motors | | Misc. Equipment | |
| Kitchen | | | |

| Panel Totals | |
|---|---|
| Total Conn. Load: | 14900 VA |
| Total Est. Demand: | 12450 W |
| Total Conn. Current: | 41 A |
| Total Est. Demand | 35 A |

Notes:

CHANGES TOO NUMEROUS TO CLOUD, REVIEW EACH PANEL FOR UPDATED DEMAND LOAD, SECTIONS, AND FEED THROUGH LUGS. 1

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CERTIFICATE OF AUTHORIZATION:
CERTIFICATE OF AUTHORIZATION CRAFTON, TULL, SPARKS & ASSOCIATES, INC. No. 109 ARKANSAS ENGINEER

**Nabholz Construction**
**Rogers Division**
As-Built Construction
By: JD Hammett, AC
Date: 02/11/2013

# Addendum
# Approved COR
# RFI

NORTHWEST ARKANSAS COMMUNITY COLLEGE • 1989 • ®

NWACC HEALTH PROFESSIONS BUILDING

BENTONVILLE, ARKANSAS

Key Plan

| No. | Description | Date |
|---|---|---|
| 1 | Addendum 2 | 07/19/11 |

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PROJECT NO: 101074-00
ISSUE DATE: 07/19/11
CONTACT: M. OWINGS
CHECKED BY:

CONSTRUCTION BID SET

STATE OF ARKANSAS REGISTERED PROFESSIONAL ENGINEER No. 13427 ERIC MICHAEL HAYWARD 7/18/2011

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ELECTRICAL SCHEDULES

E-603

7/18/2011 6:29:44 PM
C:\Jobfiles\101074-00 NWACC\NWACC-MEP-2011-rw5080.rvt

2 Item 19) ***Revision*** RE: Attached E-601 through E-604 for revisions to electrical panels.

## H3N1 — ELECTRICAL PANEL

| | | | | | |
|---|---|---|---|---|---|
| **AMP** | 400 A | **VOLTS/PHASE:** | 480/277 Wye/3 | **SECTION(S):** | 1 |
| **MAINS:** | MLO | **WIRE W/GRD.** | 4 | **TYPE:** | NF |
| **MCB** | | **CIRCUIT:** | 42 | **BUS:** | CU |

| **A.I.C. Rating:** | 42 KAIC |
|---|---|
| **MOUNTING:** | Surface |
| **NEMA:** | Type 1 |

| Load | Load Name | Trip | Poles | Wire P&N | Wire Gnd | CCT # | A | B | C | CCT # | Wire Gnd | Wire P&N | Poles | Trip | Load Name | Load |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| -- | Space | -- | -- | | | 1 | 0.00 | 7.51 | | 2 | 10 | 8 | 3 | 40 A | AHU-1 SUPPLY | CL |
| -- | Space | -- | -- | | | 3 | | 0.00 | 7.51 | 4 | -- | 8 | -- | -- | -- | -- |
| HL | AT-301 | 20 A | 3 | 12 | 12 | 5 | | | 3.33 | 7.51 | 6 | -- | 8 | -- | -- | -- |
| -- | -- | -- | -- | 12 | -- | 7 | 3.33 | 7.51 | | 8 | 10 | 8 | 3 | 40 A | AHU-3 SUPPLY | CL |
| -- | -- | -- | -- | 12 | -- | 9 | | 3.33 | 7.51 | 10 | -- | 8 | -- | -- | -- | -- |
| -- | Space | -- | -- | 12 | 12 | 11 | | | 0.00 | 7.51 | 12 | -- | 8 | -- | -- | -- |
| HL | AT-303A | 30 A | 3 | 10 | 10 | 13 | 6.00 | 0.83 | | 14 | 12 | 12 | 3 | 20 A | EF-1 | O |
| -- | -- | -- | -- | 10 | -- | 15 | | 6.00 | 0.83 | 16 | -- | 12 | -- | -- | -- | -- |
| -- | -- | -- | -- | 10 | -- | 17 | | | 6.00 | 0.83 | 18 | -- | 12 | -- | -- | -- |
| HL | AT-303B | 30 A | 3 | 10 | 10 | 19 | 6.00 | 7.51 | | 20 | 10 | 8 | 3 | 40 A | AHU-2 SUPPLY | CL |
| -- | -- | -- | -- | 10 | -- | 21 | | 6.00 | 7.51 | 22 | -- | 8 | -- | -- | -- | -- |
| -- | -- | -- | -- | 10 | -- | 23 | | | 6.00 | 7.51 | 24 | -- | 8 | -- | -- | -- |
| HL | AT-303C | 30 A | 3 | 10 | 10 | 25 | 6.00 | 0.00 | | 26 | | | | -- | Space | -- |
| -- | -- | -- | -- | 10 | -- | 27 | | 6.00 | 0.00 | 28 | | | | -- | Space | -- |
| -- | -- | -- | -- | 10 | -- | 29 | | | 6.00 | 0.00 | 30 | | | -- | Space | -- |
| HL | AT-305 | 20 A | 3 | 12 | 12 | 31 | 3.00 | 0.00 | | 32 | | | | -- | Space | -- |
| -- | -- | -- | -- | 12 | -- | 33 | | 3.00 | 0.00 | 34 | | | | -- | Space | -- |
| -- | -- | -- | -- | 12 | -- | 35 | | | 3.00 | 0.00 | 36 | | | -- | Space | -- |
| -- | Space | -- | -- | | | 37 | 0.00 | 0.00 | | 38 | | | 1 | 20 A | Spare | -- |
| -- | Space | -- | -- | | | 39 | | 0.00 | 0.00 | 40 | | | 1 | 20 A | Spare | -- |
| HL | AT-302 | 20 A | 1 | 12 | 12 | 41 | | | 3.00 | 0.00 | 42 | | | 1 | 20 A | Spare | -- |
| | | | | | | | **Total Load:** | 66.61 | 66.61 kVA | 69.61 | | | | | | |
| | | | | | | | **Total Amps:** | 240 A | 240 A | 251 A | | | | | | |

| Category Load | Load W |
|---|---|
| Lighting | |
| Receptacles | |
| Motors | |
| Kitchen | |

| Category Load | Load W |
|---|---|
| Heating | 76000 VA |
| Cooling | 89416 VA |
| Misc. Equipment | 34902 VA |
| | |

| **Panel Totals** | |
|---|---|
| **Total Conn. Load:** | 200318 VA |
| **Total Est. Demand:** | 124318 W |
| **Total Conn. Current:** | 241 A |
| **Total Est. Demand** | 150 A |

**Notes:** 1) PROVIDE FEED THROUGH LUGS.

## H3N2 — ELECTRICAL PANEL

| | | | | | |
|---|---|---|---|---|---|
| **AMP** | 400 A | **VOLTS/PHASE:** | 480/277 Wye/3 | **SECTION(S):** | 1 |
| **MAINS:** | MLO | **WIRE W/GRD.** | 4 | **TYPE:** | NF |
| **MCB** | | **CIRCUIT:** | 42 | **BUS:** | CU |

| **A.I.C. Rating:** | 42 KAIC |
|---|---|
| **MOUNTING:** | Surface |
| **NEMA:** | Type 1 |

| Load | Load Name | Trip | Poles | Wire P&N | Wire Gnd | CCT # | A | B | C | CCT # | Wire Gnd | Wire P&N | Poles | Trip | Load Name | Load |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Other | PUMP-1 | 30 A | 3 | 10 | 10 | 1 | 5.82 | 2.42 | | 2 | 10 | 8 | 3 | 50 A | AHU-3 RETURN | CL |
| -- | -- | -- | -- | 10 | -- | 3 | | 5.82 | 2.42 | 4 | -- | 8 | -- | -- | -- | -- |
| -- | -- | -- | -- | 10 | -- | 5 | | | 5.82 | 2.42 | 6 | -- | 8 | -- | -- | -- |
| -- | Space | -- | -- | | | 7 | 0.00 | 2.42 | | 8 | 10 | 8 | 3 | 50 A | AHU-2 RETURN | CL |
| -- | Space | -- | -- | | | 9 | | 0.00 | 2.42 | 10 | -- | 8 | -- | -- | -- | -- |
| -- | Space | -- | -- | | | 11 | | | 0.00 | 2.42 | 12 | -- | 8 | -- | -- | -- |
| -- | Space | -- | -- | | | 13 | 0.00 | 2.42 | | 14 | 10 | 8 | 3 | 50 A | AHU-1 RETURN | CL |
| -- | Space | -- | -- | | | 15 | | 0.00 | 2.42 | 16 | -- | 8 | -- | -- | -- | -- |
| -- | Space | -- | -- | | | 17 | | | 0.00 | 2.42 | 18 | -- | 8 | -- | -- | -- |
| -- | Space | -- | -- | | | 19 | 0.00 | 5.82 | | 20 | 10 | 10 | 3 | 30 A | PUMP-2 | Other |
| -- | Space | -- | -- | | | 21 | | 0.00 | 5.82 | 22 | -- | 10 | -- | -- | -- | -- |
| -- | Space | -- | -- | | | 23 | | | 0.00 | 5.82 | 24 | -- | 10 | -- | -- | -- |
| -- | Space | -- | -- | | | 25 | 0.00 | 0.00 | | 26 | | | -- | -- | Space | -- |
| -- | Space | -- | -- | | | 27 | | 0.00 | 0.00 | 28 | | | -- | -- | Space | -- |
| -- | Space | -- | -- | | | 29 | | | 0.00 | 0.00 | 30 | | -- | -- | Space | -- |
| -- | Space | -- | -- | | | 31 | 0.00 | 0.00 | | 32 | | | -- | -- | Space | -- |
| -- | Space | -- | -- | | | 33 | | 0.00 | 0.00 | 34 | | | -- | -- | Space | -- |
| -- | Space | -- | -- | | | 35 | | | 0.00 | 0.00 | 36 | | -- | -- | Space | -- |
| -- | Space | -- | -- | | | 37 | 0.00 | 0.00 | | 38 | | | -- | -- | Space | -- |
| -- | Space | -- | -- | | | 39 | | 0.00 | 0.00 | 40 | | | -- | -- | Space | -- |
| -- | Space | -- | -- | | | 41 | | | 0.00 | 0.00 | 42 | | -- | -- | Space | -- |
| | | | | | | | **Total Load:** | 18.91 | 18.91 kVA | 18.91 | | | | | | |
| | | | | | | | **Total Amps:** | 68 A | 68 A | 68 A | | | | | | |

| Category Load | Load W |
|---|---|
| Lighting | |
| Receptacles | |
| Motors | |
| Kitchen | |

| Category Load | Load W |
|---|---|
| Heating | |
| Cooling | 21814 VA |
| Misc. Equipment | 34902 VA |
| | |

| **Panel Totals** | |
|---|---|
| **Total Conn. Load:** | 56716 VA |
| **Total Est. Demand:** | 56716 W |
| **Total Conn. Current:** | 68 A |
| **Total Est. Demand** | 68 A |

**Notes:**

## L3N1 — ELECTRICAL PANEL

| | | | | | |
|---|---|---|---|---|---|
| **AMP** | 225 A | **VOLTS/PHASE:** | 120/208 Wye/3 | **SECTION(S):** | 1 |
| **MAINS:** | MCB | **WIRE W/GRD.** | 4 | **TYPE:** | NQOD |
| **MCB** | 225 A | **CIRCUIT:** | 42 | **BUS:** | CU |

| **A.I.C. Rating:** | 10 KAIC |
|---|---|
| **MOUNTING:** | Surface |
| **NEMA:** | Type 1 |

| Load | Load Name | Trip | Poles | Wire P&N | Wire Gnd | CCT # | A | B | C | CCT # | Wire Gnd | Wire P&N | Poles | Trip | Load Name | Load |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| L | AHU-1 LIGHTING | 20 A | 1 | 12 | 12 | 1 | 0.80 | 0.72 | | 2 | 12 | 12 | 1 | 20 A | RECEPS - CORRIDOR/ELEV CNTRL/LOBBY | R |
| L | AHU-2 LIGHTING | 20 A | 1 | 12 | 12 | 3 | | 0.80 | 0.90 | 4 | 12 | 12 | 1 | 20 A | RECEPS - STUDENT GATHERING | R |
| L | AHU-3 LIGHTING | 20 A | 1 | 12 | 12 | 5 | | | 0.80 | 0.54 | 6 | 12 | 12 | 1 | 20 A | RECEPS - N. STAIRWELL / N. CORRIDOR / S. | R |
| CL | DSCU-3/DSS-3 | 20 A | 1 | 12 | 12 | 7 | 0.97 | 0.54 | | 8 | 12 | 12 | 1 | 20 A | RECEPS - SE HOLIDAY LIGHTS | R |
| -- | Spare | 20 A | 1 | | | 9 | | 0.00 | 0.54 | 10 | 12 | 12 | 1 | 20 A | RECEPS - NW HOLIDAY LIGHTS | R |
| CL | DSCU-2/DSS-2 | 25 A | 2 | 10 | 10 | 11 | | | 1.70 | 1.70 | 12 | 10 | 10 | 2 | 25 A | DSCU-1/DSS-1 | CL |
| -- | -- | -- | -- | 10 | -- | 13 | 1.70 | 1.70 | | 14 | -- | 10 | -- | -- | -- | -- |
| CL | DSCU-5/DSS-5 | 25 A | 1 | 10 | 10 | 15 | | 1.40 | 0.00 | 16 | | | -- | -- | Space | -- |
| -- | Spare | 20 A | 1 | | | 17 | | | 0.00 | 0.00 | 18 | | | -- | Space | -- |
| -- | Spare | 20 A | 1 | | | 19 | 0.00 | 0.00 | | 20 | | | 1 | 20 A | Spare | -- |
| -- | Spare | 20 A | 1 | | | 21 | | 0.00 | 0.00 | 22 | | | 1 | 20 A | Spare | -- |
| -- | Spare | 20 A | 1 | | | 23 | | | 0.00 | 0.00 | 24 | | | 1 | 20 A | Spare | -- |
| -- | Spare | 20 A | 1 | | | 25 | 0.00 | 0.00 | | 26 | | | | 1 | 20 A | Spare | -- |
| -- | Spare | 20 A | 1 | | | 27 | | 0.00 | 0.00 | 28 | | | | 1 | 20 A | Spare | -- |
| -- | Trane Equipment per RFI 163 | 20 A | 1 | | | 29 | | | 0.00 | 0.00 | 30 | | | 1 | 20 A | Spare | -- |
| -- | Space | -- | -- | | | 31 | 0.00 | 0.00 | | 32 | | | -- | -- | Space | -- |
| -- | Space | -- | -- | | | 33 | | 0.00 | 0.00 | 34 | | | -- | -- | Space | -- |
| -- | Space | -- | -- | | | 35 | | | 0.00 | 0.00 | 36 | | -- | -- | Space | -- |
| -- | Space | -- | -- | | | 37 | 0.00 | 0.00 | | 38 | | | -- | -- | Space | -- |
| -- | Space | -- | -- | | | 39 | | 0.00 | 0.00 | 40 | | | -- | -- | Space | -- |
| -- | Space | -- | -- | | | 41 | | | 0.00 | 0.00 | 42 | | -- | -- | Space | -- |
| | | | | | | | **Total Load:** | 6.40 kVA | 3.62 kVA | 4.73 kVA | | | | | | |
| | | | | | | | **Total Amps:** | 53 A | 30 A | 39 A | | | | | | |

163

| Category Load | Load W |
|---|---|
| Lighting | 2400 VA |
| Receptacles | 3240 VA |
| Motors | |
| Kitchen | |

| Category Load | Load W |
|---|---|
| Heating | |
| Cooling | 9107 VA |
| Misc. Equipment | |
| | |

| **Panel Totals** | |
|---|---|
| **Total Conn. Load:** | 14747 VA |
| **Total Est. Demand:** | 14747 W |
| **Total Conn. Current:** | 41 A |
| **Total Est. Demand** | 41 A |

**Notes:**

1 CHANGES TOO NUMEROUS TO CLOUD, REVIEW EACH PANEL FOR UPDATED DEMAND LOAD, SECTIONS, AND FEED THROUGH LUGS.


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CERTIFICATE OF AUTHORIZATION:

CRAFTON, TULL, SPARKS & ASSOCIATES, INC. No. 109

**Nabholz Construction**
**Rogers Division**

As-Built Construction

By: JD Hammett, AC
Date: 02/11/2013

# Addendum
# Approved COR
# RFI

NORTHWEST ARKANSAS COMMUNITY COLLEGE • 1989 •

NWACC HEALTH PROFESSIONS BUILDING

BENTONVILLE, ARKANSAS

Key Plan

| No. | Description | Date |
|---|---|---|
| 1 | Addendum 2 | 07/19/11 |


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PROJECT NO: 101074-00
ISSUE DATE: 07/19/11
CONTACT: M. OWINGS
CHECKED BY:

CONSTRUCTION BID SET

STATE OF ARKANSAS REGISTERED PROFESSIONAL ENGINEER 14747 07/19/2011 MICHAEL HAYWARD


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ELECTRICAL SCHEDULES

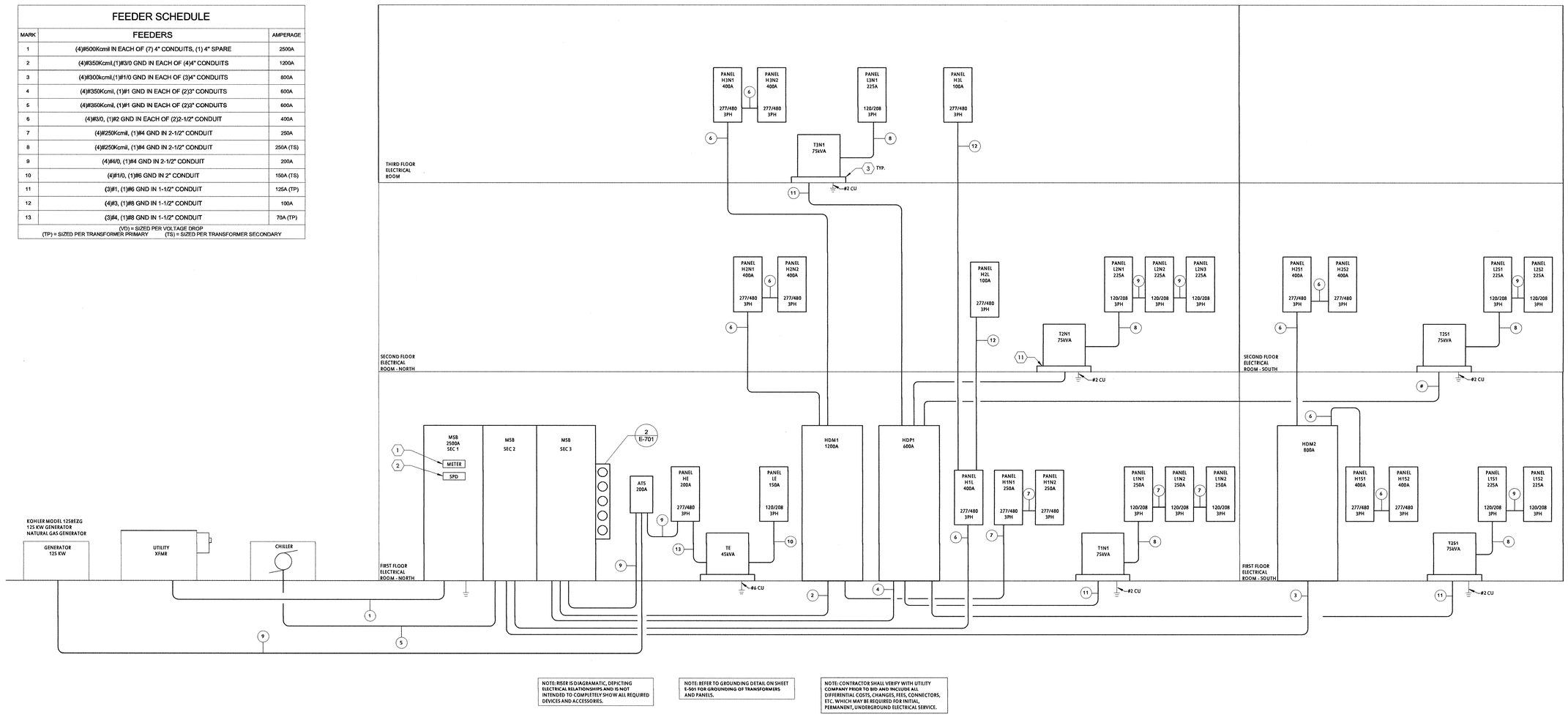
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## FEEDER SCHEDULE

| MARK | FEEDERS | AMPERAGE |
|---|---|---|
| 1 | (4)#500Kcmil IN EACH OF (7) 4" CONDUITS, (1) 4" SPARE | 2500A |
| 2 | (4)#350Kcmil,(1)#3/0 GND IN EACH OF (4)4" CONDUITS | 1200A |
| 3 | (4)#300kcmil,(1)#1/0 GND IN EACH OF (3)4" CONDUITS | 800A |
| 4 | (4)#350Kcmil, (1)#1 GND IN EACH OF (2)3" CONDUITS | 600A |
| 5 | (4)#350Kcmil, (1)#1 GND IN EACH OF (2)3" CONDUITS | 600A |
| 6 | (4)#3/0, (1)#2 GND IN EACH OF (2)2-1/2" CONDUIT | 400A |
| 7 | (4)#250Kcmil, (1)#4 GND IN 2-1/2" CONDUIT | 250A |
| 8 | (4)#250Kcmil, (1)#4 GND IN 2-1/2" CONDUIT | 250A (TS) |
| 9 | (4)#4/0, (1)#4 GND IN 2-1/2" CONDUIT | 200A |
| 10 | (4)#1/0, (1)#6 GND IN 2" CONDUIT | 150A (TS) |
| 11 | (3)#1, (1)#6 GND IN 1-1/2" CONDUIT | 125A (TP) |
| 12 | (4)#3, (1)#8 GND IN 1-1/2" CONDUIT | 100A |
| 13 | (3)#4, (1)#8 GND IN 1-1/2" CONDUIT | 70A (TP) |

(VD) = SIZED PER VOLTAGE DROP
(TP) = SIZED PER TRANSFORMER PRIMARY (TS) = SIZED PER TRANSFORMER SECONDARY




NOTE: RISER IS DIAGRAMATIC, DEPICTING ELECTRICAL RELATIONSHIPS AND IS NOT INTENDED TO COMPLETELY SHOW ALL REQUIRED DEVICES AND ACCESSORIES.

NOTE: REFER TO GROUNDING DETAIL ON SHEET E-501 FOR GROUNDING OF TRANSFORMERS AND PANELS.

NOTE: CONTRACTOR SHALL VERIFY WITH UTILITY COMPANY PRIOR TO BID AND INCLUDE ALL DIFFERENTIAL COSTS, CHANGES, FEES, CONNECTORS, ETC. WHICH MAY BE REQUIRED FOR INITIAL, PERMANENT, UNDERGROUND ELECTRICAL SERVICE.

### 1 ELECTRICAL RISER DIAGRAM
N.T.S.

## GENERAL RISER NOTES

1. ALL ELECTRICAL SERVICE SWEEPS TO BE GALVANIZED RIGID LONG SWEEPS.

## KEYED NOTES

1. PROVIDE POWER LOGIC MODEL CM4250 METERING FOR MAIN SWITCHBOARD MSB.
2. PROVIDE SQUARE D MODEL QMB41MA24C INTEGRAL SURGE SUPPRESSION DEVICE FOR MAIN SWITCHBOARD MSB.
3. PROVIDE 4" HOUSEKEEPING PAD FOR ALL INTERIOR TRANSFORMERS.

| METER | LOAD | SQUARE D METER MODEL |
|---|---|---|
| ◯ | M1L | EME 2043 |
| ◯ | HDP1 | EME 3083 |
| ◯ | HDM1 | EME 3164 |
| ◯ | HDM2 | EME 3084 |
| ◯ | CHILLER | EME 3083 |

1) METERS TO BE SQUARE D POWER LOGIC ENERGY METER.
2) METERS TO BE MOUNTED ON WALL NEXT TO MSB.
3) ALL METERS TO HAVE ENERGY METER COMMUNICATION BOARD: EMCB

### 2 POWER LOGIC ENERGY METERING
N.T.S.


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**Rogers Division**
As-Built Construction
By: JD Hammett, AC
Date: 02/11/2013

# Addendum
# Approved COR
# RFI

NORTHWEST ARKANSAS COMMUNITY COLLEGE 1989

# NWACC HEALTH PROFESSIONS BUILDING

BENTONVILLE, ARKANSAS

Key Plan

| No. | Description | Date |
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CONTACT: M. OWINGS
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CONSTRUCTION BID SET

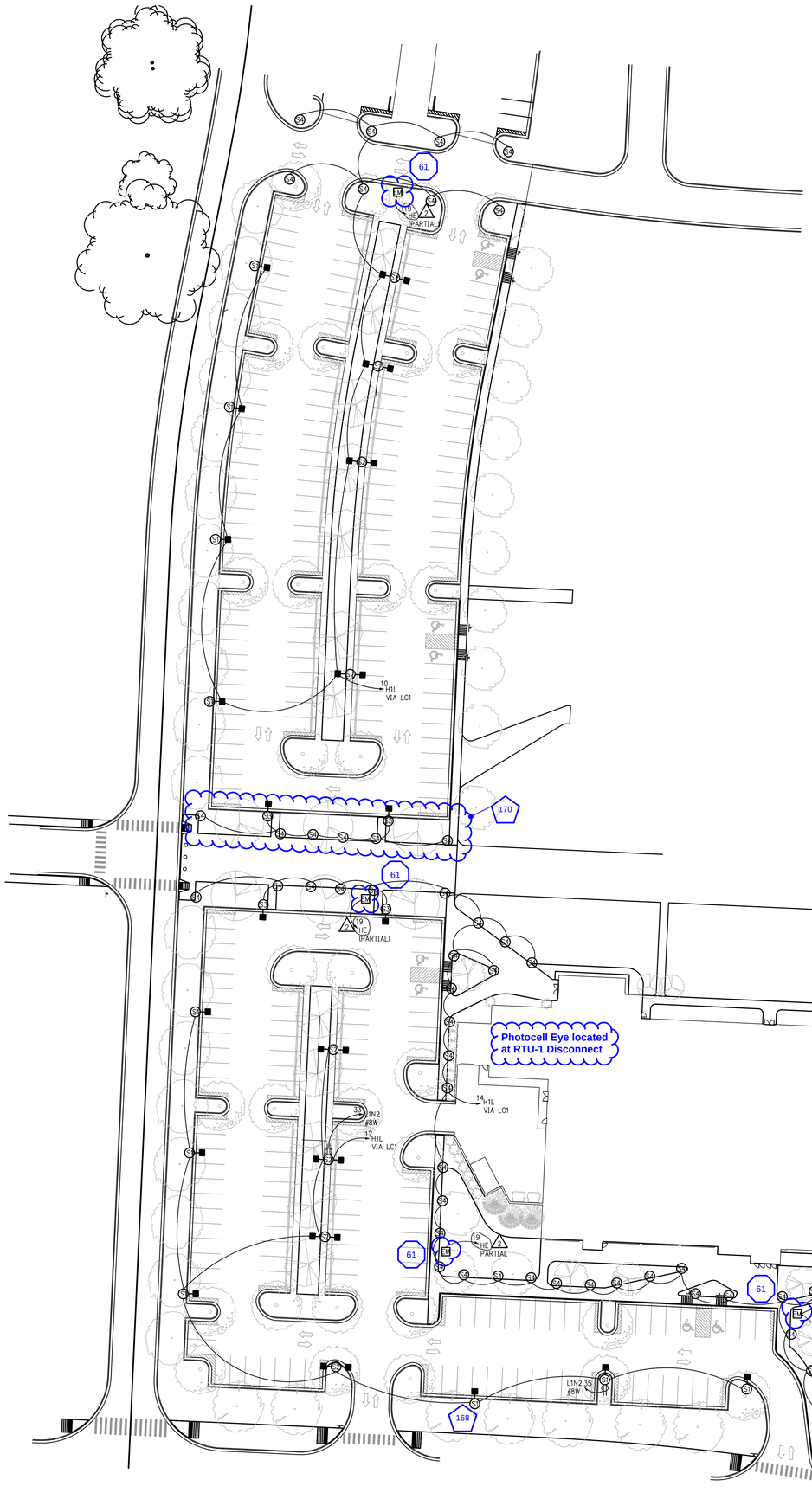

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STATE OF ARKANSAS REGISTERED PROFESSIONAL ENGINEER No. 13427 ERIC MICHAEL HAWARD

ELECTRICAL RISER DIAGRAM

E-701


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1 SITE LIGHTING PLAN
1/32" = 1'-0"

## GENERAL NOTES

1. LIGHT POLE BASES TO BE INSTALLED WITHIN GRASS AREA BETWEEN BIO-SWELL AND PARKING. COORDINATE LOCATIONS WITH CIVIL PLANS.
2. REFER TO SHEET E-501 FOR POLE BASE AND BOLLARD BASE DETAIL.
3. EXTERIOR LIGHTING TO BE CONTROLLED VIA EZ-MAX LC1 CONTROLLER CALLED OUT ON INTERIOR LIGHTING PLANS. LIGHTS TO BE PROGRAMMED TO COME ON ONE HOUR BEFORE SUNSET/OFF ONE HOUR AFTER SUNRISE VIA ASTRONOMICAL TIME CLOCK WITH PHOTOCELL OVERRIDE.
4. CONTRACTOR TO VERIFY ALL FINAL CONDUCTOR LENGTHS DURING INSTALL AND UPSIZE CONDUCTORS AS NEEDED TO BE WITHIN 3% VOLTAGE DROP BACK TO PANEL.

## KEYED NOTES

15
2

1. CODE BLUE PEDESTAL - MODEL CODE BLUE CB1-S WITH STANDARD FACEPLATE AND WHITE GRAPHIC TEXT COLOR. PROVIDE EMERGENCY POWER TO EACH UNIT AND 1" CONDUIT FROM UNIT TO MAIN DATA CLOSET FOR COMMUNICATION CABLING. EACH PEDESTAL TO HAVE A CONCRETE BASE. REFER TO CONCRETE BASE DETAIL SHEET E-501.
2. PROVIDE 1" CONDUIT FROM LIGHT POLE RECEPTACLE BACK TO BUILDING PANEL SPECIFIED. OUTLET TO BE FLUSH MOUNTED IN POLE. REFER TO POLE RECEPTACLE DETAIL SHEET E-501.


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# NWACC HEALTH PROFESSIONS BUILDING

BENTONVILLE, ARKANSAS

Key Plan

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SITE LIGHTING

E-801


DRAWING: G:\101074.00_NWACC-HPB-HTP-ELE-LBR_SITE\DWG\SITE LIGHTING.DWG
LAYOUT: 30X42 - ARCH E (VOID) | PLOTTED: 7/17/2013 3:57:43 PM
XREFS: | PLOTTED BY: HAYWARD, ERIC | PLOTTED BY: HAYWARD, ERIC