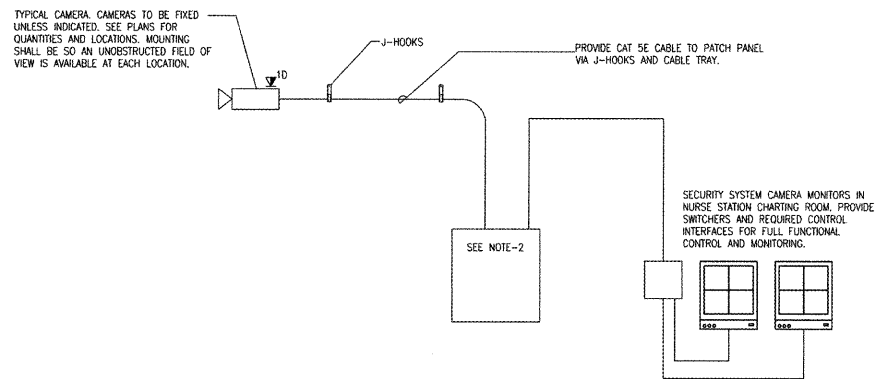


**B1** SINGLE CIRCUIT OCCUPANCY SENSOR WIRING DIAGRAM  
SCALE: NONE



**C1** CAMERA RISER DIAGRAM  
SCALE: NONE

NOTES

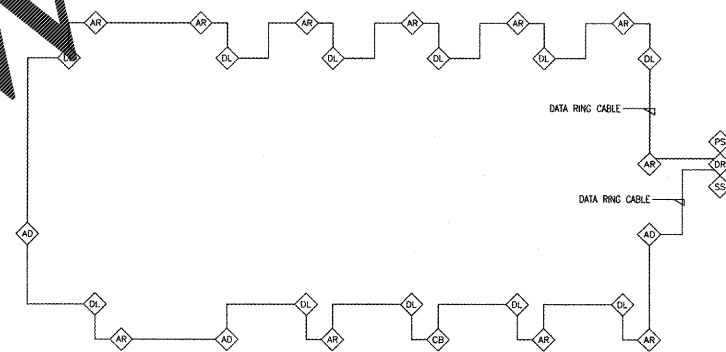
1. THE MAXIMUM NUMBER OF DATA CABLES IN A CONDUIT SLEEVE SHALL NOT EXCEED 40% FILL.
2. PATCH CABLE TO EXISTING DATA SYSTEM RACK IN EXISTING IT ROOM. PROVIDE NEW PATCH PANELS IN THE RACK TO ACCOMMODATE NEW CAMERAS AND CABLEING.

**DURESS/ASSIST ALARM SPECIFICATIONS:**

1. PROVIDE A STAND-ALONE TWO-TIER PERSONAL DURESS/ASSIST ALARM SYSTEM AS SHOWN ON THE DRAWINGS AND FURTHER SPECIFIED. THE SYSTEM SHALL BE PINPOINT INSTANT ALARM 5000 OR APPROVED EQUAL.
2. THE SYSTEM SHALL PROVIDE BATTERY BACKUP TO ENSURE OPERATION FOR AT LEAST 4 HOURS UPON LOSS OF POWER.
3. THE SYSTEM SHALL BE U.L. LISTED AND LABELED.
4. PERSONAL TRANSMITTERS SHALL BE AVAILABLE AS A KEY FOB THAT CAN BE WORN AROUND THE NECK OR IN A POCKET OR A BADGE THAT CAN BE WORN ON PERSON.
5. THE SYSTEM SHALL PROVIDE THE CAPABILITY FOR TWO SEPARATE ALERTS, DURESS AND ASSIST, THAT SHALL BE TRANSMITTED AND DISTINGUISHED AT THE ALPHANUMERIC DISPLAY PANELS.
6. TRANSMISSION FROM THE PERSONAL ALARM TRANSMITTERS SHALL BE WIRELESS. RECEIVERS, ALPHANUMERIC DISPLAYS, DOOR LIGHTS AND OTHER FUNCTIONAL DEVICES IN THE SYSTEM SHALL BE CONNECTED TO A WIRED NETWORK.
7. THE SYSTEM SHALL PROVIDE ALARM SIGNALS TO THE ROOM LEVEL THROUGH INFRA-RED RECEIVERS. IF SYSTEMS THAT CANNOT DISTINGUISH TRANSMISSION SIGNALS IN ADJACENT ROOMS ARE NOT ACCEPTABLE.
8. THE SYSTEM SHALL PROVIDE CENTRAL ANNUNCIATION AT THE ALPHANUMERIC DISPLAYS THAT PROVIDES THE FOLLOWING:
  - 8.1. EMITS CLEARLY DISTINGUISHABLE AUDIBLE SIGNALS FOR BOTH LEVELS OR ALARMS.
  - 8.2. PROVIDE CAPABILITY TO ADJUST VOLUME OF AUDIBLE SIGNAL.
  - 8.3. PROVIDES INDICATION OF ALARM INCLUDING IDENTIFICATION OF THE TRANSMITTER AND AN ALPHANUMERIC DISPLAY OF THE TRANSMITTER LOCATION WITHIN THE BUILDING.
9. THE SYSTEM SIGNAL PROCESSING AND COMPUTATIONAL CAPABILITIES SHALL BE ACHIEVED THROUGH PERMANENT WIRING CIRCUITRY AND FIRMWARE COMPRISING A DISTRIBUTED INTELLIGENCE NETWORK. SYSTEMS THAT OPERATE THROUGH A SEPARATE STAND-ALONE COMPUTER WITH A THIRD PARTY OPERATING SYSTEM AS A PLATFORM IF ANY ACCEPTABLE.
10. PERSONAL TRANSMITTERS SHALL BE RECHARGEABLE TYPE WITHOUT THE NEED FOR REPLACING BATTERIES.
11. PERSONAL TRANSMITTERS SHALL BE WARRANTED TO LAST A MINIMUM OF FIVE YEARS AGAINST ALL FAILURE MODES AND SHALL BE REPLACED WITHOUT COST IF FAILING FOR ANY REASON WITHIN THE WARRANTY PERIOD.
12. PERSONAL TRANSMITTERS SHALL BE CAPABLE OF BEING TESTED WITHOUT ACTIVATING THE SYSTEM.
13. FURNISH ALL MATERIALS, EQUIPMENT AND TOOLS TO INSTALL A COMPLETE SYSTEM.
14. INSTALL SYSTEM CONTROLS AND PERIPHERAL DEVICES AND EQUIPMENT ACCORDING TO THE IEC-NECA AND THE IAH DESIGN HANDBOOK.
15. PROVIDE A SHOP DRAWING SUBMITTAL FOR APPROVAL THAT SHALL INCLUDE BUT NOT NECESSARILY BE LIMITED TO FLOOR PLANS SHOWING ALL DEVICES, A COMPLETE RISER SUMMARY OF THE SYSTEM, DATA SHEETS OF ALL EQUIPMENT AND DEVICES IN THE SYSTEM CLEARLY LABELED TO DISTINGUISH OPTIONS AND SPECIFIC DEVICES USED, AND A BILL OF MATERIALS LISTING ALL EQUIPMENT AND DEVICES WITH THE QUANTITIES PROVIDED.

**DURESS/ASSIST SYSTEM LEGEND**

- AR CEILING MOUNTED ADDRESSABLE RECEIVER
- DL CEILING MOUNTED DOOR LIGHT
- AD ALPHANUMERIC DISPLAY UNIT
- CR ADDRESSABLE CARD READER
- SP SYSTEM SUPERVISION CONTROL PANEL
- PS POWER SUPPLY UNIT
- DR DATA RING DISTRIBUTION BOX



**DURESS/ASSIST SYSTEM FUNCTIONAL RISER DIAGRAM**

**RISER/INSTALLATION NOTES:**

1. CONNECT NO MORE THAN 40 UNITS OF ANY KIND TO A SINGLE DATA RING. THIS TOTAL DOES NOT INCLUDE DOOR LIGHTS.
2. DATA RINGS SHALL BE NO MORE THAN 820 FEET IN TOTAL LENGTH OF CABLE.
3. ADDRESSABLE RECEIVER UNITS SHALL BE CENTRALLY LOCATED IN ROOMS AND 5 FEET FROM FLUORESCENT LIGHT FIXTURES OR AS FAR AS REASONABLE POSSIBLE.
4. SPACE RECEIVERS IN CORRIDORS NO MORE THAN 65 FEET APART.
5. DATA RING CABLE SHALL BE BELDEN 65004FE PLENUM RATED CABLE.
6. THE RISER SHOWS TYPICAL DEVICES AND EQUIPMENT AND IS A FUNCTIONAL RISER TO DEPICT TYPICAL WIRING AND INTERCONNECTIONS. REFER TO THE FLOOR PLANS FOR ACTUAL QUANTITIES AND LOCATIONS FOR DEVICES.
7. INSTALL CABLE IN A NEAT AND ORDERLY MANNER. LABEL CABLE AS TO THE SYSTEM AND FUNCTION IT SERVES. INSTALL CABLE USING CABLE HOOKS. DO NOT LAY CABLE ON DUCTS, CEILINGS, LIGHT FIXTURES OR OTHER EQUIPMENT IN CEILING SPACE. CABLE TRAYS MAY BE USED FOR WIRE RUNS WHERE AVAILABLE.

**LINE LEGEND**

- EXISTING
- NEW
- - - DEMO

**F1** DURESS/ASSIST ALARM SYSTEM DETAILS  
SCALE: NONE

| REVISION | DESCRIPTION | DATE |
|----------|-------------|------|
|          |             |      |
|          |             |      |
|          |             |      |
|          |             |      |



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| Recommended Approvals:     |                                    |
|----------------------------|------------------------------------|
| 1. MEDICAL CENTER DIRECTOR | 6. OPERATIONS SERVICE LINE MANAGER |
| 2. ASSISTANT DIRECTOR      | 7. INFECTION CONTROL MANAGER       |
| 3. CHIEF OF STAFF          | 8. SAFETY MANAGER                  |
| 4. ASSOC. DIRECTOR         | 9. GENERAL ENGINEER                |
| 5. SERVICE LINE MGRS.      | 10. COR                            |

|  |
|--|
| Drawing Title<br><b>ELECTRICAL DETAILS</b> |
| 100%<br>CONSTRUCTION DOCUMENTS             |
| FULLY SPRINKLERED                          |

|  |                        |                        |                     |
|--|------------------------|------------------------|---------------------|
| Project Title<br><b>RENOVATE MENTAL HEALTH UNITS</b> | Drawn<br>WAO           | Building Number        | AutoCAD File Name   |
| Date<br>February 10, 2017                            | Checked<br>[Signature] | Revised<br>[Signature] | Const. Contract No. |

|                              |                            |
|------------------------------|----------------------------|
| Project Number<br>509-12-104 | Drawing No.<br><b>E502</b> |
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