A101.2

FLOOR PLAN

GENERAL NOTES

1. REFER TO A600 FOR PARTITION SCHEDULE AND DETAILS
2. REFER TO A602 FOR DOOR, FRAME AND INTERIOR WINDOW DETAILS
3. REFER TO INTERIOR ELEVATIONS AND ENLARGED PLANS FOR ADDITIONAL TAGS NOT SHOWN IN A100 PLANS.
4. REFER TO S500 FOR STRUCTURAL DETAILS
5. REFER TO CONTROL PLANS FOR SLAB EDGES, DEPRESSIONS AND OPENING LOCATIONS.
6. PROVIDE CONCEALED SUPPORT ABOVE CEILINGS FOR CEILING MOUNTED EQUIPMENT, SPECIALTY LIGHTING, ETC. INCLUDING OWNER FURNISHED EQUIPMENT. REFER TO ALL DISCIPLINES DRAWINGS FOR EQUIPMENT, ACCESSORIES AND OTHER CEILING MOUNTED ITEMS
7. PROVIDE CONCEALED BLKG. WITHIN PARTITIONS AT ALL WALL-MOUNTED ITEMS, INCLUDING BUT NOT LIMITED TO TOILET ACCESSORIES AND EQUIPMENT PROVIDED BY OWNER. REFER TO ALL DISCIPLINE'S DRAWINGS FOR EQUIPMENT, ACCESSORIES AND OTHER ITEMS THAT ARE WALL MOUNTED.
8. SEE QL PLANS FOR FURNITURE AND EQUIPMENT LAYOUTS IN TEACHING LAB ROOMS
9. ALL CORRIDOR SIDE WALLS IN 1C2 (EXISTING BLISS HALL) AND INTERIOR WALLS OF ROOMS 120 & 180 SHALL HAVE HIGH-IMPACT GWB
10. REFER TO A301 FOR EXTERIOR SYSTEM ABBREVIATION DESCRIPTIONS

As indicated
6. INSTALL NEW 3/4" SHEATHING OVER ENTIRE EXISTING THIRD AND FOURTH FLOORS.

7. PROVIDE CONCEALED BLKG. WITHIN PARTITIONS AT ALL WALL-MOUNTED ITEMS, SHOWN IN A100 PLANS.

8. SEE QL PLANS FOR FURNITURE AND EQUIPMENT LAYOUTS IN TEACHING LAB ROOMS.

3. REFER TO INTERIOR ELEVATIONS AND ENLARGED PLANS FOR ADDITIONAL TAGS NOT SHOWN IN THE FLOOR PLAN.
1. Seals all penetrations at electrical and tel/data closets.

2. Install new 3/4" sheathing over entire existing third and fourth floors.

3. Refer to interior elevations and enlarged plans for additional tags not shown in A100 plans.

4. Provide concealed blocking within partitions at all wall-mounted items.

5. Provide concealed support above ceilings for ceiling mounted equipment shown in A100 plans.

6. Provide concealed support above ceilings for ceiling mounted equipment shown in A100 plans.

7. Provide concealed blocking within partitions at all wall-mounted items.

8. Refer to interior elevations and enlarged plans for additional tags not shown in A100 plans.

9. All corridor side walls in 1C2 (existing Bliss Hall) and interior walls of Owner. Refer to all discipline's drawings for equipment, accessories and including but not limited to toilet accessories and equipment provided by subcontractors.

10. Ballinger responsible in any way for any aspect of their preparation of shop drawings. The provision subject to this statement of conditions of use, this document available to subcontractors, contractor may make electronic files of agreement between the owner and Ballinger and to document is subject to the conditions of the contract.
<table>
<thead>
<tr>
<th>Door Number</th>
<th>Room</th>
<th>Door Panel</th>
<th>Type</th>
<th>Material</th>
<th>Door Fire Rating</th>
<th>Door Hardware</th>
<th>Comments</th>
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<td>STUD ORG A</td>
<td>PLYWD</td>
<td>3' - 0&quot;</td>
<td>6' - 8&quot;</td>
<td>PTD</td>
<td>PLYWD</td>
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<td>PLYWD</td>
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<td>PLYWD</td>
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<td>ALUM</td>
<td>29 CR, 1&quot; DOOR UNDERCUT</td>
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<td>ASPHALT LAB B B G-01</td>
<td>HM</td>
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<td>3' - 0&quot;</td>
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<td>F1</td>
<td>HM 22 CR</td>
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<td>MATERIAL TESTING B B G-01</td>
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<td>3' - 0&quot;</td>
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<td>F1</td>
<td>HM 22 CR</td>
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<td>1.170</td>
<td>GEOMATICS LAB A A HM</td>
<td>HM</td>
<td>3' - 0&quot;</td>
<td>1' - 6&quot;</td>
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<td>HM 26 CR</td>
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<td>MATERIALS LAB A A</td>
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<td>1' - 6&quot;</td>
<td>PTD</td>
<td>F1</td>
<td>HM 34</td>
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<tr>
<td>1.130A.1</td>
<td>SUPPORT A</td>
<td>HM</td>
<td>3' - 0&quot;</td>
<td>7' - 10 1/2&quot;</td>
<td>PTD</td>
<td>F1</td>
<td>HM 24</td>
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<tr>
<td>1.1V1A.1</td>
<td>VESTIBULE A</td>
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<td>3' - 0&quot;</td>
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<td>PTD</td>
<td>F1</td>
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<td>1.1TC1</td>
<td>TELE/DATA A</td>
<td>HM</td>
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<td>F1</td>
<td>HM 14</td>
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<td>3' - 0&quot;</td>
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<td>PTD</td>
<td>F1</td>
<td>HM 90 MIN. 13</td>
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<td>1' - 6&quot;</td>
<td>PTD</td>
<td>F1</td>
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<td>F1</td>
<td>HM 07</td>
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<td>ELEC A</td>
<td>HM</td>
<td>3' - 0&quot;</td>
<td>7' - 10 1/2&quot;</td>
<td>PTD</td>
<td>F1</td>
<td>HM 90 MIN. 06</td>
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<tr>
<td>1.1E2</td>
<td>UPS CLOSET A</td>
<td>HM</td>
<td>3' - 0&quot;</td>
<td>7' - 10 1/2&quot;</td>
<td>PTD</td>
<td>F1</td>
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<td>1.1E1</td>
<td>ELEC RM A A</td>
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<td>3' - 0&quot;</td>
<td>3' - 0&quot;</td>
<td>PTD</td>
<td>F1</td>
<td>HM 90 MIN. 04 LHR A ctive, RHR Inactive with 180° swing</td>
</tr>
</tbody>
</table>
### Key Name Description

**MANUFACTURER**

- CET: Ceiling Trim, Armstrong Axiom Perimeter Trim, 6" Nominal
- CET: Ceiling Trim, Armstrong Shadow Molding, 9/16" Leg & 1/4" Reveal Shadow Molding
- CPT: Carpet Tile, Shaw Contract Blur Custom Colorway, FL 4, Dean’s Suite/Student Affairs
- CPT: Carpet Tile, Shaw Contract Vapor, TBD Classrooms, FL 1 & 2
- CF: Cork Finish
- CG: Corner Guard, Armstrong Acrovyn, Recessed Flushed
- WT: Walk-Off Mat, Construction Specialties

**COLOR/FINISH**

- 1474: Cape May
- 314: Imperial Yellow
- 6020: White/Black
- 939: Silver
- 949: White, Suede
- 939: Stainless, #4 Satin
- 304: Stainless, #4 Satin

**COMMENTS**

- All painted metal doors and hollow metal frames are to have semi-gloss finish.
- All painted wood doors and hollow metal frames are to have semi-gloss finish.
- VCT flooring to have 4x24 tile threshold.
- Rubber transition strip to be used at carpet to resilient floor.
- Cork finish to be used at resilient floor.
- Johnsonite Catwalk to have rubber transition strip.
- Johnsonite Catwalk to have rubber transition strip.
- Rubber transition strip to be used at carpet to concrete.
- Rubber transition strip to be used at resilient floor to concrete.
- Rubber transition strip to be used at tile to concrete.

### Finish Notes

**FINISH SCHEDULE**

- **FINISH LEGEND - CEILING**
  - Painted in inch profile
  - Painted with concealed gridline
- **FINISH LEGEND - FLOOR**
  - Thinset porcelain tile
- **FINISH LEGEND - WALL**
  - Waterproof membrane at 3rd and 4th floors

**FINISH CLASSIFICATION**

- **MATERIALS LAB**
  - Metal Panel, Armstrong Tegular, 9/16" Suprafine Painted in inch profile
  - Metal Panel, Armstrong Lockdowns with concealed gridline
  - Metal Panel, Armstrong WS-6 Deep Pit 1/4" x 12 3/4" Semi gloss tape

**MARK EQUIPMENT NAME MANUFACTURER MODEL QUANTITY COMMENTS**

- **E-3 UNDER COUNTER**
  - Johnsonite Catwalk, Johnsonite CD-XX or equal
  - Rubber transition strip: VCT flooring
  - Rubber transition strip: Johnsonite SSR-XX-B or equal
  - Cork finish: Jahnsontite CD-XX or equal
  - Rubber transition strip: Johnsonite SSR-XX-B or equal
  - Rubber transition strip: Johnsonite SSR-XX-B or equal
  - Johnsonite Catwalk to have rubber transition strip
  - Johnsonite Catwalk to have rubber transition strip
  - Rubber transition strip to be used at carpet to concrete
  - Rubber transition strip to be used at resilient floor to concrete
  - Rubber transition strip to be used at tile to concrete
  - Seal: Johnsonite SR-XX-C or equal

**REFERENCES**

- See reflected ceiling plans for ceiling finishes.
- All painted wood doors and hollow metal frames are to have semi-gloss finish.
- Office spaces and conference rooms to have painted metal fire stair and handrail.
- All painted metal railings on stairs are to have semi-gloss finish.
- Johnsonite Catwalk to have rubber transition strip.
- Rubber transition strip to be used at carpet to concrete.
- Rubber transition strip to be used at resilient floor to concrete.
- Rubber transition strip to be used at tile to concrete.
- Johnsonite Catwalk to have rubber transition strip.
- Johnsonite Catwalk to have rubber transition strip.
- Rubber transition strip to be used at carpet to concrete.
- Rubber transition strip to be used at resilient floor to concrete.
- Rubber transition strip to be used at tile to concrete.
- Seal: Johnsonite SR-XX-C or equal

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*Note: The image contains additional information and diagrams related to the project, including floor plans and construction details.*
BLISS HALL ADDITION AND RENOVATION
KINGSTON, RI
PROJECT NO: KC.G.ENGR.2017.001
07/05/18 ISSUE 5

LOW ROOF REFLECTED CEILING PLAN

EXISTING
BLDG
ADDITION

SCALE: 1/4" = 1'-0"

CONSULTANTS:

TITLE:

NUMBER:

PROJECT:

DRAWING ISSUE

CONDITION OF USE

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ARCHITECTURE

LOW ROOF

REFLECTED CEILING

PLAN

EXISTING
BLDG
ADDITION
NEW ROLLER SHADES INSTALLED IN EXISTING BUILDING ARE TO OVERLAP WINDOW OPENINGS; ALIGN WITH SILL EDGES +/− 1-1/2" EACH SIDE.

SEE A603 FINISH SCHEDULE FOR ADDITIONAL INFORMATION ON ROLLERSHADES RS-1 & RS-2. SHADE POCKETS ARE CONTINUOUS WHERE NOTED, BUT ROLLER SHADES ARE ALL ACT PERIMETERS AT PARTITIONS ARE CET-1, UNLESS NOTED OR DETAILED OTHERWISE.

PROVIDE OVERSIZED FILED-TRIMMED ACOUSTICAL CEILING PANELS. CUT/ROUTE TEGULAR EDGE TO MATCH AND LOCATE THAT EDGE TO THE ADJACENT WALL SIDE.

SEE MECHANICAL DRAWINGS FOR MEP COORDINATION SECTION.

SEE MECHANICAL, ELECTRICAL, PLUMBING AND FIRE PROTECTION DRAWINGS FOR EXACT EQUIPMENT AND FIXTURE LOCATIONS IN THE MECHANICAL PENTHOUSE.

PROVIDE GYP. BD. SOFFIT ABOVE ALL WALL CABINETS.

SEE ELECTRICAL DRAWINGS FOR ADDITIONAL FIXTURES AND TYPES.

PROVIDE UNDERCABINET TASK LTG. AT ALL UPPER CABINETS AND SHELVES UNLESS OTHERWISE NOTED.
1.2 4.5 8.5 11.8

MECHANICAL

STAIR # 2

STAIR # 1

EQ

8' - 0"  TYP

10' - 0"

EQ

10' - 0" 10' - 0"

10' - 0" 10' - 0" 10' - 0" 10' - 0" 10' - 0" 11' - 5"

6' - 1"

EQ

9' - 11"

1' - 10"

EQ EQ

9' - 11"

6' - 1"

GWB-1 CEILING

REFLECTED CEILING PLAN NOTES

1.

2.

3.

4.

5.

6.

7.

8.

9.

10.

11.

12.

13.

14.

15.

16.

GANGED LIGHT FIXTURE

RECESSED WALL WASHERS

OPEN CELL CEILING

ACP CEILING

RECESSED LINEAR LIGHT FIXTURE

PENDANT LIGHT FIXTURE

SUPPLY DIFFUSER

GANGED LIGHT FIXTURE

LINEAR SCONCE

LINEAR DIFFUSER

CEILING GRID WORK POINT

RETURN/EXHAUST DIFFUSER

CEILING SERVICE PANEL (CSP)

EXIT SIGN

CAMERA

SMOKE DETECTOR

FIRE ALARM STROBE

FIRE ALARM SPEAKER

FIRE ALARM PULL

FA

FP

MANUAL WINDOW ROLLER SHADE.

(CIRCLE REPRESENTS SHADE PULL)

SEE A603 FOR ADDITIONAL INFO

EX-1 (EXPOSED)

EXPOSED STRUCTURE, SERVICES,

UNDERSIDE OF FLOOR AND WALLS

ARE TO BE PAINTED ABOVE 9'-0" AFF

CEILING CASSETTE;

SEE M-DWGS

PROJECTION &

SCREEN

MANUAL WINDOW ROLLER SHADE.

SEE A603 FOR ADDITIONAL INFO
1. CENTER PATTERNS IN ROOMS.
2. PROVIDE SEALANT AT TRANSITION BETWEEN VCT AND CONCRETE CURBS, TYP.
3. INSTALL NEW 3/4" SHEATHING OVER ENTIRE EXISTING THIRD AND FOURTH FLOORS.
4. PREPARE EXISTING CONCRETE SLABS/DECKS TO RECEIVE NEW FINISHES.

---

**GENERAL NOTES**

**SCALE:**

**DRAWING ISSUE:**

**PROJECT:**

**SEAL:**

**KEYPLAN:**

**CONSULTANTS:**

**TITLE:**

**NUMBER:**

---

**EXISTING BLDG**

**ADDITION**

As indicated

**KINGSTON, RI**

---

**ARC\**

**H E**

**T U R**

**N U R**

**E**

---

**BLISS HALL ADDITION AND RENOVATION**

**PROJECT NO: KC.G.ENGR.2017.001**

---

**FINISH PLAN**

**1/4" = 1'-0"**

---

**07/05/18 ISSUE 5**
1. CENTER PATTERNS IN ROOMS.
2. PROVIDE SEALANT AT TRANSITION BETWEEN VCT AND CONCRETE CURBS, TYP.
3. INSTALL NEW 3/4" SHEATHING OVER ENTIRE EXISTING THIRD AND FOURTH FLOORS.
4. PREPARE EXISTING CONCRETE SLABS/DECKS TO RECEIVE NEW FINISHES.
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**Finish Plan**  
1/4" = 1'-0"
1. CENTER PATTERNS IN ROOMS.
2. PROVIDE SEALANT AT TRANSITION BETWEEN VCT AND CONCRETE CURBS, TYP.
3. INSTALL NEW 3/4" SHEATHING OVER ENTIRE EXISTING THIRD AND FOURTH FLOORS.
4. PREPARE EXISTING CONCRETE SLABS/DECKS TO RECEIVE NEW FINISHES.
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GENERAL ELECTRICAL PLAN NOTES:

1. FOR DRAWING NOTES, ABBREVIATIONS, MOUNTING HEIGHTS, AND SYMBOLS, REFER TO SHEET E001.

2. FOR ADDITIONAL GENERAL POWER PLAN NOTES, REFER TO SHEET E101.

SCALE: 1/4″ = 1'-0"

EXISTING

BLDG

ADDITION

CONSULTANTS:

E10

ELETRICAL

STEAM & ELEVATOR

PIT ELECTRICAL PLAN

BLISS HALL ADDITION AND RENOVATION

KINGSTON, RI

PROJECT NO: KC.G.ENGR.2017.001

07/05/18 ISSUE 5
KIRK ELECTRICAL SINGLE LINE DIAGRAM

- 150AF
- 20AT
- 1P
- 3P
- 300AT
- 20AT
- 20AF
- 1P
- 3P
- 200AF
- 20AF
- 3P
- 3P
- 125AT
- 150AF
- 350AT
- 350AF
- HYDRAULIC PUMP

GENERAL ELECTRICAL PLAN NOTES:
1. REVIEW EXISTING CONDITIONS PRIOR TO START OF DEMOLITION AND COORDINATE ANY POWER INTERRUPTIONS WITH OWNER'S REPRESENTATIVE.
2. REMOVE ALL EXISTING ELECTRICAL EQUIPMENT, FIXTURES, SYSTEMS, CONDUIT AND WIRING NO LONGER REQUIRED AFTER PROJECT COMPLETION.
3. PROVIDE OWNER WITH CERTIFICATES OF INSPECTION.
5. MAINTAIN CONTINUITY OF ALL ACTIVE LIGHTING & POWER CIRCUITS. INTERRUPT WIRING AND DEMOLITION SHALL NOT AFFECT ACTIVE CIRCUITS.
6. REMOVAL OF EXISTING LIGHTING, FIXTURES, EXIT SIGNS, AND OTHER CEILING MOUNTED DEVICES TO BE REMOVED IN THESE AREAS.
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<thead>
<tr>
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<th>Rating</th>
<th>Poles</th>
<th>Load Class</th>
<th>Notes</th>
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<th>B</th>
<th>C</th>
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<th>Load Class</th>
<th>Poles</th>
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</tbody>
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**Notes:**
- The subcontractor's shop drawings, nor relieve the condition of use.
- Addition to existing building (BLDG).
**PANELBOARD NOTES:**

- **Lock-off Clamp**
- **Lock-on Clamp**

### HVAC
- **0 VA 0.00% 0 VA**

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<th>Connected Load</th>
<th>Demand Factor</th>
<th>Estimated Demand</th>
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<td>9578 VA</td>
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### Circuit Description
- **Tele/Data 2TC1**
- **Recpt**

### Panelboard Notes:

- **Equip 4460 VA 60.00% 2676 VA**
- **Light 0 VA 0.00% 0 VA**
- **HVAC 0 VA 0.00% 0 VA**

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<th>TD-3</th>
<th>DK-3</th>
<th>DP-3</th>
</tr>
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<tbody>
<tr>
<td><strong>41</strong></td>
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<tr>
<td><strong>39</strong></td>
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<td><strong>35</strong></td>
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<tr>
<td><strong>17</strong></td>
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<tr>
<td><strong>13</strong></td>
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<tr>
<td><strong>Spare 20</strong></td>
<td>--</td>
<td>--</td>
<td>--</td>
</tr>
<tr>
<td><strong>Recpt</strong></td>
<td>TELE/DATA 3TC1</td>
<td>Equip 540</td>
<td>Recpt; Equip 540</td>
</tr>
</tbody>
</table>

#### Enclosure:

- **Spare 20**
- **19**
- **20**
- **21**
- **22**
- **23**
- **24**
- **25**
- **26**
- **27**
- **28**
- **29**
- **30**
- **31**
- **32**
- **33**
- **34**
- **35**
- **36**
- **37**
- **38**
- **39**
- **40**

#### Circuit Description

- **TELE/DATA 3TC1**
- **Trip**
- **120/208 Wye**
- **3**
- **3 A**
- **3 A**
- **3 A**

#### Total Est. Demand Current:

- **N**
- **Trip**
- **Neutral Rating**

---

**Total Load:**

- **11254 VA**
- **17 A**

---

**Sections:**

- **14 KAIC**
- **Surface**

---

**Ground Bus:**

- **Y**

---

**Isolated Grn Bus:**

- **Y**

---

**Neutral Bus:**

- **N**

---

**Wires:**

- **MCB Double Lugged**

---

**Neutral Rating:**

- **60 A**

---

**Total Conn. Load:**

- **42**
- **20**
- **40**
- **30**
- **28**
- **24**
- **16**
- **12**
- **8**
- **5**
- **3**
- **2**
- **1**

---

**Total Est. Demand Current:**

- **53**
- **47**
- **37**
- **25**
- **17**
- **15**
- **11**
- **9**
- **7**
- **6**
- **5**
- **3**
- **2**

---

**Supply From:**

- **RECPT - ADV ELECTRONIC DESIGN LAB**

---

**Equipment:**

- **ADV ELECTRONIC DESIGN LAB 380**
- **PRINTER - ELECTRONICS LAB 380**
- **COMPUTER LAB 360**
- **RECPT - COMPUTER LAB ENG 340**
- **RECPT - STUDY ROOM 310**
- **RECPT - CONTROLS / FIELDS LAB 308**
- **RECPT - SIGNAL PROCESSING 392**
- **CONFERENCE ROOM 300**
- **REFRIGERATOR - STUDY ROOM 310**
- **RECPT FOR TABLETOP POWER CONN LAB 382**
- **RECPT - FACULTY TOUCHDOWN 390**
- **RECPT - TEACHING LAB SUPPORT 362**
- **LAB ENG 340**

---

**Circuit Description Modifications:**

- **TYPE 1**
- **MDP-1B**
- **ELEC 3E1**

---

**ELETRICAL ADDITION BLDG:**

**CONSULTANTS:**

- **PREPARATION OF THEIR REQUIRED SHOP DRAWINGS.**

---

**THE SUBCONTRACTOR'S SHOP DRAWINGS, NOR RELIEVE BALLINGER RESPONSIBLE IN ANY WAY FOR ANY ASPECT OF DOCUMENT. CONTRACTOR MAY MAKE ELECTRONIC FILES OF THEIR SHOP DRAWINGS FOR THE PURPOSE OF THEIR EXECUTION.**
### Panelboard Notes:

- **GFI Breaker, 5mA**

### Electrical Details:

- **Equip 23696 VA 60.00% 14218 VA**
- **Equip 4460 VA 60.00% 2676 VA**
- **HVAC 0 VA 0.00% 0 VA**

### Circuit Description

<table>
<thead>
<tr>
<th>Branch Panel</th>
<th>Rating</th>
<th>Poles</th>
<th>Load Class</th>
<th>Notes</th>
<th>Load Class</th>
<th>Poles</th>
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<tr>
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<td><strong>DN-4</strong></td>
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</tr>
<tr>
<td><strong>RF-4 (SEC. 1 &amp; SEC. 2)</strong></td>
<td></td>
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</tr>
</tbody>
</table>

### Comments

- **(SOUTH) 20 1 Recpt 180 2400 Equip 1 30 LE-CVE-0381 - ASPHALT LAB 103A**
- **Spare 20 1 -- 0 988 -- -- -- --**

### Location:

- **Circuit Description**
- **Phases:**
  - 1
  - 65KAIC
- **Voltage:**
  - 720 VA 4140 VA 500 VA
- **Total Est. Demand Current: 17917 VA 18300 VA 18095 VA**
- **Total Conn. Current: 70 A 44 A**
- **Total Est. Demand:**
  - 39
  - 25
  - 17
- **Total Conn. Load:**
  - 161
  - 157
  - 155
  - 143
  - 141
  - 139
  - 137
  - 129
  - 123
  - 119
  - 115
  - 111
  - 105
  - 95
  - 83
  - 73
  - 57
  - 53
  - 51
  - 35
  - 29
  - 27
  - 25
  - 22
  - 16
  - 14
  - 12
  - 10
  - 8
  - 6
  - 4
  - 2
  - 1

### Additional Details:

- **Enclosure:**
  - TYPE 1
- **MCB Rating:**
  - 12 A 19 A 12 A
- **Feed Thru Lug:**
  - N
- **Y
  - Neutral Bus:**
  - N
- **BUS Rating:**
  - 100 A
- **MLO/MCB:**
  - 225 A
- **Double Lugged:**
  - Y

PROJECT NO: KC.G.ENGR.2017.001

LIGHTING PLAN

PLAN KEYED NOTES:

GENERAL LIGHTING PLAN NOTES:
FOR DRAWING NOTES, ABBREVIATIONS, MOUNTING HEIGHTS, AND SYMBOLS, REFER TO SHEET E001.

FOR ADDITIONAL GENERAL LIGHTING PLAN NOTES, REFER TO SHEET EL101.

LUMINAIRES SHALL BE CONTROLLED BY
RELAY PANEL LCP-3 U.O.N.

LUMINAIRES SHALL BE POWERED FROM
ALL THIRD FLOOR 277V EMERGENCY

CONSULTANTS:

BALLINGER'S COPYRIGHT AND OTHER SUCH RIGHTS IN THIS THEIR PREPARATION OF SHOP DRAWINGS. THE PROVISION RESPONSIBLE IN ANY WAY FOR ANY ASPECT OF PREPARATION OF THEIR REQUIRED SHOP DRAWINGS.

DATE: 07/05/18 ISSUE 5

1/4" = 1'-0"
GENERAL LIGHTING PLAN NOTES:

1. FOR DRAWING NOTES, ABBREVIATIONS, MOUNTING HEIGHTS, AND SYMBOLS, REFER TO SHEET E001.

2. FOR ADDITIONAL GENERAL LIGHTING PLAN NOTES, REFER TO SHEET EL101.

LIGHTING PLAN PLAN KEYED NOTES:

1. BACK OF HOUSE LIGHT FIXTURE 'SL1B' TO BE MOUNTED @ 13' A.F.F. CONTRACTOR TO COORDINATE LIGHT FIXTURE LOCATIONS AND MOUNTING HEIGHT WITH OTHER TRADES TO PROVIDE UNIFORM LIGHT LEVEL. PROVIDE ADDITIONAL FIXTURES WHERE NECESSARY IF DARK SPOTS OCCUR DUE TO OTHER TRADES' EQUIPMENT OBSTRUCTING LIGHT OUTPUT.

2. ON PERIMETER SLOPED ROOF, SURFACE MOUNT LIGHT FIXTURES TO UNDERSIDE OF ROOF ON STRUCTURE.

# # - REFER TO LIGHTING CONTROL SEQUENCE OF OPERATIONS SCHEDULE EL501
Notes:

1. Stairwell - 3 ceiling sensors shall provide overall control for all zones within area. Provide a separate switch for each user-controlled zone as indicated on drawings.

2. Provide automatic daylight responsive controls for sidelighting (per ASHRAE 90.1 2013 edition) where indicated on drawings. Refer to specification section - 260936 modular dimming controls.

3. An ALC used on dimmable fixtures shall bypass dimming controls and provide 100%.

4. A fully networked lighting control system capable of integration with BAS for programming and monitoring lighting.

5. Wall switches or touchscreens where specified on RCP.

6. Slave relay panel schedules.

7. Temporary wiring, typ. dimming switches.

8. Room controller wiring diagram.

9. Relay panel schedules.

10. Lighting relay control diagram.

11. Stairwell wiring diagram for on/off and 0-10V dimming power pack.

12. Relay panel wiring diagram for UL 324 automatic load control (ALC) device.

13. General circulation time clock with occupancy sensor.


15.Override switch.


17. Bliss relay panel.

18. Scene switch.

19. Small office.

20. Networkable relay lighting control panel by Wattstopper, LCMP series, or equivalent. Refer to relay panel schedules on sheet EL502.
<table>
<thead>
<tr>
<th>TYPE</th>
<th>DESCRIPTION</th>
<th>MANUFACTURER</th>
<th>CATALOG NUMBER</th>
<th>MOUNTING</th>
<th>RESOURCE</th>
</tr>
</thead>
<tbody>
<tr>
<td>101</td>
<td>Downlight</td>
<td>LIGHTOILER</td>
<td>P4R-D-10-N-Z10-U-VB</td>
<td>100W</td>
<td>3W100W_12</td>
</tr>
<tr>
<td>102</td>
<td>Dimmable</td>
<td>LIGHTOILER</td>
<td>P4R-D-8-35-VB</td>
<td>80W</td>
<td>3W100W_12</td>
</tr>
<tr>
<td>103</td>
<td>Dimmable</td>
<td>LIGHTOILER</td>
<td>P4R-D-CC-P</td>
<td>80W</td>
<td>3W100W_12</td>
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<tr>
<td>104</td>
<td>Recessed</td>
<td>CORONET</td>
<td>RECESSED - PG4 SERIES</td>
<td>50W</td>
<td>3W100W_12</td>
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<tr>
<td>105</td>
<td>Recessed</td>
<td>CORONET</td>
<td>RECESSED - RAY4-R SERIES</td>
<td>50W</td>
<td>3W100W_12</td>
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<tr>
<td>106</td>
<td>Recessed</td>
<td>LEDALITE</td>
<td>4908-L-B-G-Q-S-[CEILING]-[LENGTH]-7-2-E</td>
<td>7W/FT</td>
<td>3W100W_12</td>
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<tr>
<td>107</td>
<td>Recessed</td>
<td>LEDALITE</td>
<td>3900-L-B-G-L-S-[CEILING]-[LENGTH]-7-2-E</td>
<td>5W/FT</td>
<td>3W100W_12</td>
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<td>108</td>
<td>Recessed</td>
<td>LEDALITE</td>
<td>4908-LED-Pendant</td>
<td>10W</td>
<td>3W100W_12</td>
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<tr>
<td>109</td>
<td>Recessed</td>
<td>LEDALITE</td>
<td>3900-LED-Pendant</td>
<td>8W</td>
<td>3W100W_12</td>
</tr>
</tbody>
</table>

**Usage:**
- **Type 101:** Downlight with 100W capability.
- **Type 102:** Dimmable light with 80W output.
- **Type 103:** Dimmable light with 80W output.
- **Type 104:** Recessed light with 50W output.
- **Type 105:** Recessed light with 50W output.
- **Type 106:** Recessed light with 7W/FT output.
- **Type 107:** Recessed light with 5W/FT output.
- **Type 108:** Recessed pendant light with 10W output.
- **Type 109:** Recessed pendant light with 8W output.
<table>
<thead>
<tr>
<th>JOB</th>
<th>DESCRIPTION</th>
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<tbody>
<tr>
<td>EL602</td>
<td>LIGHTING SCHEDULE</td>
</tr>
</tbody>
</table>

**LED REQUIREMENTS: OUTPUT**

- INTEGRAL 0-10V LED DRIVER CAPABLE OF DIMMING TO 1% OF LIGHT SYSTEM, SEMI-SPECULAR CLEAR ALZAK REFLECTOR, 55° BEAM

- INTEGRAL MOTION SENSOR WITH , WHITE PAINTED FINISH, PROVIDE INTEGRAL MOTION SENSOR WITH,

- OPTICS, PROVIDE HONEYCOMB LOUVER, MOUNT TO NOMINAL 2 INCH REGRESSED SOFT FOCUS GLASS LENS AND 20-DEGREE BEAM

- INTEGRAL LED DRIVER CAPABLE OF DIMMING TO 5% OF LIGHT DETECTED.

- LED REQUIREMENTS:
  - SUPPLY TO BE MOUNTED IN CONCEALED, ACCESSIBLE, AND TRANSFORMER IS INTEGRAL TO FIXTURE HOUSING
  - INTEGRAL LED DRIVER CAPABLE OF DIMMING TO 1% OF LIGHT OUTPUT.
  - INTEGRAL OCCUPANCY SENSOR, OVERALL WHITE PAINT FINISH, INTEGRAL DRIVER CAPABLE OF DIMMING TO 1% OF LIGHT OUTPUT.
  - INTEGRAL LED DRIVER.
  - OVERALL WHITE PAINT FINISH, INTEGRAL OCCUPANCY SENSOR, MAXIMUM 3-1/8 INCH DIAMETER X NOMINAL 5-1/2 INCH HIGH

- LED REQUIREMENTS:
  - SYSTEM, SEMI-SPECULAR CLEAR ALZAK REFLECTOR, FIXTURE
  - WHITE PAINTED FINISH, PROVIDE INTEGRAL MOTION SENSOR WITH,

- LED REQUIREMENTS:
  - NOMINAL 1,000 INITIAL DELIVERED LUMENS, 3500K CCT, 80+ CRI, 50,000 HOUR LIFE TO L70, 5-YEAR WARRANTY.
  - LED REQUIREMENTS:
  - NOMINAL 900 INITIAL DELIVERED LUMENS, 3500K CCT, 80+ CRI, CABLE FEED THROUGH ENDCAPS, REMOTE 0-10V LED POWER
  - LED REQUIREMENTS:
  - NOMINAL 1,000 INITIAL DELIVERED LUMENS, 3500K CCT, 80+ CRI,

- LED REQUIREMENTS:
  - NOMINAL 400 INITIAL DELIVERED LUMENS PER FOOT, 3500K CCT, 80+

- LED REQUIREMENTS:
  - NOMINAL 2,100 INITIAL DELIVERED LUMENS, 3500K CCT, 80+

- LED REQUIREMENTS:
  - LED CYLINDER PENDANT, NOMINAL 2 INCH DIAMETER APERTURE,

- LED REQUIREMENTS:
  - LED LINEAR XOOLUM HYD-HD25-W8-27-36"-S-NA-FS-IP67 - LEDS BY MANUFACTURER 23 277 NO APPROVED EQUALS SURFACE

- LED REQUIREMENTS:
  - SURFACE MOUNTED EXTERIOR WALL SCONCE LITHONIA WST LED P1 40K VW 277 PIR1FC3V - LEDS BY MANUFACTURER 13 277 COOPER SURFACE

- LED REQUIREMENTS:
  - LINEAR LED UNDERCABINET LIGHT, 1-1/2 INCH TALL X 4-1/2 INCH DEEP,

- LED REQUIREMENTS:
  - LED LENSED STRIP LIGHT, NOMINAL 5 INCH DEEP X 3-1/2 INCH DEEP,

- LED REQUIREMENTS:
  - LED CYLINDER PENDANT, NOMINAL 2 INCH DIAMETER APERTURE,

- LED REQUIREMENTS:
  - LED REQUIREMENTS:
  - NOMINAL 400 INITIAL DELIVERED LUMENS PER FOOT, 3500K CCT, 80+

- LED REQUIREMENTS:
  - NOMINAL 2,100 INITIAL DELIVERED LUMENS, 3500K CCT, 80+

- LED REQUIREMENTS:
  - LED CYLINDER PENDANT, NOMINAL 2 INCH DIAMETER APERTURE,
WITHIN 21 DAYS OF CONTRACT AWARD, THE CONTRACTOR SHALL FURNISH SUBMITTALS FOR ALL SPECIFIED LIGHTING FIXTURES FOR REVIEW BY THE DESIGN PROFESSIONAL. THE SUBMITTALS SHALL INCLUDE LUMINAIRE CATALOG CUTS.

CONTRACTOR SHALL PROVIDE LABOR AND EQUIPMENT FOR FOCUSING OF ADJUSTABLE FIXTURES AND PRESETTING OF LIGHTING CONTROL SYSTEMS. FOCUSING AND PRESETTING SHALL BE DONE IN THE PRESENCE OF THE DESIGN PROFESSIONAL.

ALL DIMMABLE L.E.D. LAMPS SHALL BE BURNED CONTINUOUSLY FOR 100 HOURS PRIOR TO FOCUSING OF FIXTURES AND COMMISSIONING OF CONTROL SYSTEMS.

CONTRACTOR SHALL SELECT, FURNISH AND INSTALL THE CORRECT SIZE OF SECONDARY WIRING FROM REMOTE TRANSFORMERS AND/OR REMOTE BALLASTS AS REQUIRED TO KEEP VOLTAGE DROP IN THE SECONDARY WIRING BELOW 3% OF RATED VOLTAGE.


CONTRACTOR SHALL CONFIRM FIXTURE VOLTAGES, CEILING TRIMS, AND MOUNTING HARDWARE ARE COMPATIBLE WITH THEIR APPLICATION AS DETERMINED BY THE DESIGN PROFESSIONAL PRIOR TO ORDERING FIXTURES.

SOLID STATE LUMINAIRES SHALL BE IN ACCORDANCE WITH IESNA LM-79 STANDARDS.

BALLAST TYPE AND FIXTURE VOLTAGE

NUMBER:

PROJECT:

CONSULTANTS:

PREPARATION OF THEIR REQUIRED SHOP DRAWINGS.

SUBCONTRACTORS FROM FULL RESPONSIBILITY FOR THE SUBCONTRACTOR'S SHOP DRAWINGS, NOR RELIEVE BALLINGER RESPONSIBLE IN ANY WAY FOR ANY ASPECT OF THIS DOCUMENT BY BALLINGER SHALL NOT MAKE SUBJECT TO THIS STATEMENT OF CONDITIONS OF USE, THIS DOCUMENT AVAILABLE TO SUBCONTRACTORS, CONTRACTOR, IN EITHER PAPER OR ELECTRONIC FORM, THE SOLELY AS A CONVENIENCE TO SUCH SUBCONTRACTORS IN AGREEMENT BETWEEN THE OWNER AND BALLINGER AND TO SUBSEQUENT USE OF THE INFORMATION CONTAINED ON THE DOCUMENT IS SUBJECT TO THE CONDITIONS OF THE CONDITION OF USE.
Fourth Floor Raceway Plan

Bliss Hall Addition and Renovation
Kingston, RI

Project No: KC.G.ENGR.2017.001

1/4" = 1'-0"

Elec 4E1 Penetration Schedule

Tele/Data 4TC1 Penetration Schedule

Existing Bldg

Addition

Condition of Use

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EXISTING

BULDG

ADDITION

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RP-5 TO 'DP-5'
TO AHU-1
CONDENSING UNIT
CONDUIT FOR BRANCH CIRCUIT TO OUTDOOR HVAC EQUIPMENT. ROUTE CONDUIT THROUGH ROOF POP-UP. COORDINATE CONDUIT ROUTING WITH REFRIGERANT PIPING.

GENERAL RACEWAY PLAN NOTES:
FOR DRAWING NOTES, ABBREVIATIONS, MOUNTING HEIGHTS, AND SYMBOLS, REFER TO SHEET E001.
FOR ADDITIONAL GENERAL RACEWAY PLAN NOTES, REFER TO SHEET ER101.

1. SCALE:
2. DRAWING ISSUE
3. PROJECT:
4. SEAL:
5. KEYPLAN:
6. CONSULTANTS:
7. TITLE:
8. NUMBER:
9. CONDITION OF USE

WHEN THIS DOCUMENT IS SUPPLIED TO EITHER OWNER OR CONTRACTOR, IN EITHER PAPER OR ELECTRONIC FORM, THE SUBSEQUENT USE OF THE INFORMATION CONTAINED ON THE DOCUMENT IS SUBJECT TO THE CONDITIONS OF THE AGREEMENT BETWEEN THE OWNER AND BALLINGER AND TO BALLINGER'S COPYRIGHT AND OTHER SUCH RIGHTS IN THIS DOCUMENT. CONTRACTOR MAY MAKE ELECTRONIC FILES OF THIS DOCUMENT AVAILABLE TO SUBCONTRACTORS, SUBJECT TO THIS STATEMENT OF CONDITIONS OF USE, SOLELY AS A CONVENIENCE TO SUCH SUBCONTRACTORS IN THEIR PREPARATION OF SHOP DRAWINGS. THE PROVISION OF THIS DOCUMENT BY BALLINGER SHALL NOT MAKE BALLINGER RESPONSIBLE IN ANY WAY FOR ANY ASPECT OF THE SUBCONTRACTOR'S SHOP DRAWINGS, NOR RELIEVE SUBCONTRACTORS FROM FULL RESPONSIBILITY FOR PREPARATION OF THEIR REQUIRED SHOP DRAWINGS.
DUCTBANK RUNS UNDER SLAB ON GRADE WHERE CRUSHED STONE BETWEEN PROVIDE 6" MINIMUM OF BURIED WARNING UTILITY TAPE, LABELED 6" WIDE FOIL BACKED DETECTABLE (TYPICAL) CONDUIT SPACERS WIRE EMBEDDED #4/0 GROUND (TYPICAL) 3000# CONCRETE 2-WAY DUCTBANK 5" 4-WAY DUCTBANK 3" 5" DB60 (TYP.) #5 @ 12" OLC CONT. EA. "ELECTRICAL LINE" (TYP.) 4' INTERVALS SPACERS AT CONDUIT #4 @ 12" OLC TIES (TYPICAL) FACE (TYPICAL) #5 @ 12" OLC CONT. EA. 3000# CONCRETE (TYP.) 3" SCHD 40 2" 1.5" 7.5" MIN 1.5" 2" 18" 18" 3" 1.5" 1.5" MINIMUM DEPTH BELOW GRADE 3'-6" (TYPICAL) 1/8" = 1'-0"

N.T.S.

ELECTRICAL SITE PLAN

1 MEDIUM VOLTAGE SINGLE LINE DIAGRAM

SW#6(E) 1-3 1-1
50/51 51N TO SW#5 1-1(E)
N.C. N.O. TO NEXT EMH TO NEXT EMH 1-1/1-3(E)
UE (E) TO EMH-65 (E) 1-1(E) 1-3(E) 2-1(E)
400 AT 400 AF

Bliss Hall/Kirk Cat
3000# CONCRETE

EMH-6 (E) EMH-5 (E) EMH-4 (E) EMH-3 (E) EMH-66 (E)
UE (E) TO EMH-6 (E) UE (E) TO EMH-5 (E) UE (E) TO EMH-4 (E) UE (E) TO EMH-3 (E) UE (E) TO EMH-66 (E)

BLISS HALL

KIRK HALL

KIRK CAT (E)

AM AS

UE (E)

TO SUBSTATION 2 AM AS

TO UTILITY

TO SUBSTATION 2 AM AS

TO UTILITY

PREPARATION OF THEIR REQUIRED SHOP DRAWINGS. THE PROVISION SOLELY AS A CONVENIENCE TO SUCH SUBCONTRACTORS IN SUBJECT TO THIS STATEMENT OF CONDITIONS OF USE, THIS DOCUMENT AVAILABLE TO SUBCONTRACTORS, CONTRACTOR MAY MAKE ELECTRONIC FILES OF SUBSEQUENT USE OF THE INFORMATION CONTAINED ON THE CONTRACTOR, IN EITHER PAPER OR ELECTRONIC FORM, THE THEIR PREPERATION OF SHOP DRAWINGS. THE PROVISION

03/14/18 ISSUED FOR BID

PROJECT NO: KC.G.ENGR.2015.002

ES101

ES101
NOTE:
SLAB ON GRADE
DUCTBANK RUNS UNDER CRUSHED STONE BETWEEN PROVIDE 6" MINIMUM OF 1/4" = 1'-0"

2-WAY DUCTBANK 4" (TYPICAL) @ 4' INTERVALS CONDUIT SPACERS F/A CABLING 3000# CONCRETE (TYP.)

VERTICAL TRANSITION PROVIDE 3'-0" D x 3'-0" H x (TYPICAL) LINETYPE LEGEND:

SINGLE LINE DIAGRAM
TO EMH-65 (E)
SW#6(E)
ELECTRICAL SITE PLAN DEMOLITION 1-3 1-1
50/51 51N N.C. N.O.
TO NEXT EMH
TO NEXT EMH
1-1/1-3(E)
1-1/1-3(E)
1-1(E) 1-3(E) 2-1(E)
1-1(E) 1-3(E) 2-1(E)
1-1(E) 1-2(E) 1-3(E)
1-1(E) 1-2(E) 1-3(E)
EMH-6(E)
EMH-5(E)
EMH-4(E)
EMH-3(E)
EMH-2(E)
EMH-65(E)
TO CENTRAL SUBSTATION 1 400 AT 400 AF
1-1(E) 1-3(E) 2-1(E)
AM AS
EMH-66 (E) 400 AF KIRK CAT (E) 1-3(E) 2-1(E) 2-3(E) 2-4(E)
1-1/1-3(E)
TO SUBSTATION 2 AM AS
BLISS HALL (RE) 400 AT 400 AF AM AS
SERVICE STATION 3Ø - 4W 4160V - 208Y/120V 3 KVA
TO UTILITY VM VS
LINETYPE LEGEND:
SINGLE LINE DIAGRAM
AND ASSOCIATED FEEDER
DEMOLISH EXISTING DUCTBANK, CONCRETE PAD, AND GROUND LOOP
REMOVE EXISTING (RE)
EHM-66 (E)
DEMOLISH EXISTING DUCTBANK (RE)
UE (RE)
UE (RE)
UE (RE)
UE (RE)
UE (E)
UE (E)
UE (E)
UE (E)
UE (E)
UE (E)
UE (E)
UE (E)
UE (E)
UE (E)
UE (E)
UE (E)
UE (E)
DISTRIBUTION SERVICES AND ASSOCIATED FEEDER IN STRIPED BOXES SHOW EXISTING
RASPBERRY, HAZEL, AND CARAMEL COLORS ARE USED TO DISTINGUISH PHASES.  ALL OTHER COLORS
ARE ELECTRICAL SIMPLIFIED COLORED ACCORDING TO THE STANDARD MAP."
19" EQUIPMENT RACK WITH (2) TWO 8" VERTICAL MANAGERS

3/4" FIRE-RETARDANT PLYWOOD FROM FLOOR TO 8'0 AFF TYPICAL

(2) 4" CONDUITS TYPICAL

(2) 4" SLEEVES FROM 1ST FLOOR MDF TO 2ND FLOOR IDF TYPICAL

KINDORF FRAMING SHAFT CIRCULATION

EXISTING BLDG

ADDITION

PROJECT NO: KC.G.ENGR.2017.001

BLISS HALL ADDITION AND RENOVATION

KINGSTON, RI

1/2" = 1'-0"

(1) 19" EQUIPMENT RACK WITH (2) TWO 8" VERTICAL MANAGERS

GROUND BUSBAR (BY E.C.)

SPACE RESERVED FOR FUTURE RACK

KINDORF FRAMING

TC-2.01
1/2" = 1'-0" 1 TELECOMM DETAILS

REQUIRED UL LISTED COMPRESSION LUG

#4 AWG INSULATED GROUND WIRE

1 8 POSITION JACK PIN/PAIR ASSIGNMENTS

TYPICAL RISER CABLE SUPPORT DETAIL

INDICATED ARE ASSOCIATED WITH THE STATION DISTRIBUTION CABLE.

THIS ILLUSTRATION IS A FRONT VIEW OF THE CONNECTOR. THE COLORS TO GROUNDING RISER PAIR-2 CABLE TRAY TO EQUIPMENT RACKS.

GROUND WIRE. DO NOT BOND LADDER RACK OR TO GROUND BUSBAR USING #4 AWG INSULATED BONDED TOGETHER AT ALL JOINTS AND BONDED.

2. ALL LADDER RACK AND CABLE TRAY SHALL BE TOGETHER.

GROUND WIRE. DO NOT "DAISY CHAIN" RACKS

1. T.C. TO BOND EACH EQUIPMENT RACK TO THE

BONDING NOTES:

(TYPICAL)

(TYPICAL)

(TYPICAL)

(TYPICAL)

(TYPICAL)

(TYPICAL)

(TYPICAL)

(TYPICAL)

(TYPICAL)

(TYPICAL)

(TYPICAL)
1. THE COMMUNICATIONS CONTRACTOR SHALL PROVIDE (1) 25-PAIR CAT5e COOPER CABLE FROM MDF ROOM TO EACH IDF ROOM.

2. ELECTRICAL BASIC MATERIALS, INSTALLATION METHODS AND GENERAL CONDITIONS SHALL BE THE SAME AS THE ELECTRICAL SPECIFICATION, UNLESS OTHERWISE NOTED.

3. CONDUIT REQUIREMENTS SHOWN ON THE DRAWING ARE FOR COMMUNICATIONS USE.

4. SIZE PULL BOXES ACCORDING TO ANSI/TIA/EIA-569A SECTION 5.2.3 GUIDELINES.

5. EACH CONDUIT/SLEEVE SHALL HAVE BUSHING ENDS AND ONE PULL STRING, MINIMUM, THROUGHOUT THE BUILDING. COORDINATE WITH URI TELECOMM DEPT ON WHERE TO TERMINATE CABLES.

6. PRIOR TO EXISTING MDF DEMOLITION, T.C. TO PULL BACK EXISTING FIBER AND COPPER TO THE TELECOM MANHOLE AND SHURTZ WHSE.

7. LABEL CONDUITS BASED UPON INTENDED USAGE (i.e., VOICE, DATA, CATV, FUTURE, etc.)

8. ALL TEL/DATA ROOMS SHALL BE TIED BACK TO THE MAIN TEL/DATA ROOM (MDF) WITH A #6 AWG GROUND WIRE OR MAIN ELECTRICAL GROUND.

9. GROUNDING OF ALL TELECOMMUNICATIONS COMPONENTS TO BE PERFORMED BY TELECOMMUNICATIONS CONTRACTOR.

10. ALL GROUND BARS, WIRE, ASSOCIATED CONDUIT & MATERIALS TO BE PROVIDED BY ELECTRICAL CONTRACTOR. LOCATION OF GROUNDING NOTES:

11. THE COMMUNICATIONS CONTRACTOR SHALL PROVIDE (1) 12-STRAND 8.3/125 SINGLEMODE, ARMORED FIBER WITH LC CONNECTORS AND ENCAPSULATION.