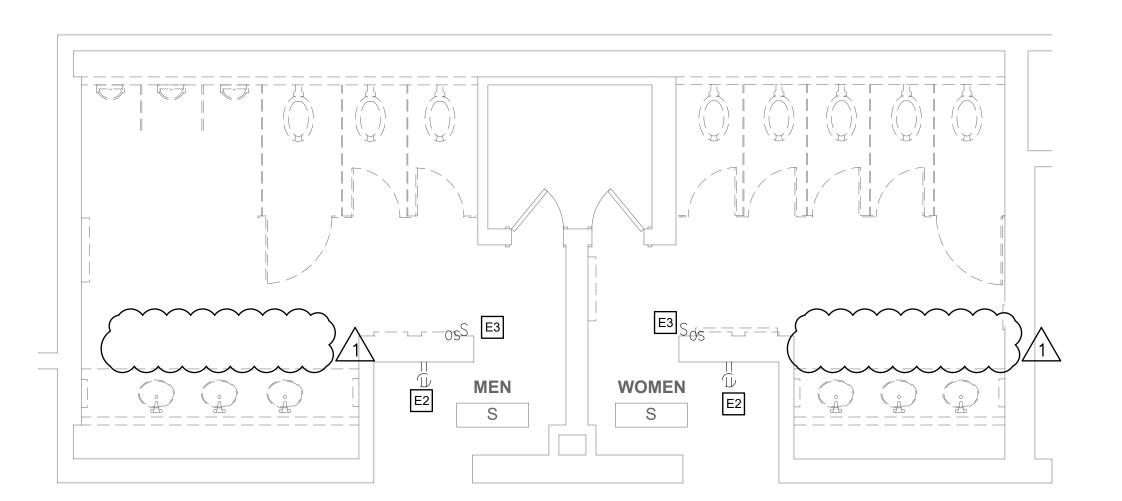


FLOOR PLAN - MEN'S & WOMEN'S ROOM S E110 SCALE: 1/4" = 1'-0"



1 DEMO PLAN - MEN'S & WOMEN'S ROOM S E110 SCALE: 1/4" = 1'-0"

#### GENERAL DEMOLITION NOTES

- 1. SEE DRAWING E001 FOR GENERAL NOTES, SYMBOLS, AND
- 2. PRIOR TO THE START OF WORK, EC SHALL LOCATE ALL LIGHTING AND POWER PANEL SUPPLY CIRCUITS FOR THE WORK AREA AND RECORD PANEL AND CIRCUIT NUMBER ON RECORD DRAWINGS.
- 3. EC SHALL FIELD INVESTIGATE EXISTING LIGHT FIXTURES TO VERIFY NORMAL AND EMERGENCY FIXTURE VOLTAGES AND ENSURE NEW LIGHTING FIXTURES ARE SELECTED WITH VOLTAGES TO MATCH EXISTING.
- 4. EC SHALL REMOVE AND DISPOSE OF ALL LIGHT FIXTURES WITHIN THE WORK AREA. TAG AND PRESERVE EXISTING LIGHTING CIRCUITS FOR FUTURE RECONNECTION TO NEW LIGHTING FIXTURES.
- 5. FURNISH AND INSTALL JUNCTION BOXES WHERE REQUIRED TO CONTINUE CIRCUITS OUTSIDE OF WORK AREA.
- 6. KEYED NOTES MAY NOT APPEAR ON ALL PLAN VIEWS.

#### DEMOLITION KEYED NOTES

E1 NOT USED

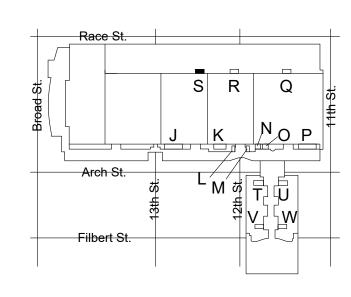
- E2 EC SHALL DEMOLISH EXISTING RECEPTACLE/LIGHT SWITCH, BACK BOX, CONDUIT AND WIRE. CAP WIRES ABOVE CEILING FOR SPLICING AND EXTENSION TO NEW LOCATION PER NEW WORK KEYED NOTE
- E3 EC SHALL DISCONNECT AND REMOVE THE EXISTING RECEPTACLE/OCCUPANCY SENSOR SWITCH. PRESERVE THE EXISTING CONDUCTORS FOR RECONNECTION TO NEW RECEPTACLE/SWITCHING CONTROLS.
- E4 EC SHALL DISCONNECT THE POWER SUPPLY TO THE EXISTING WATER COOLERS TO BE REMOVED. PULL CONDUCTORS BACK TO NEAREST JUNCTION BOX, CUT, REMOVE AND CAP REMAINING CONDUCTORS. MAINTAIN CONTINUITY TO OTHER LOADS ON SAME CIRCUIT. CUT THE CONDUIT AT THE WATER COOLER LOCATION TO BE FLUSH WITH WALL AND CAP THE END. COORDINATE WORK WITH OTHER DISCIPLINES AS REQUIRED.

#### **GENERAL NEW WORK NOTES**

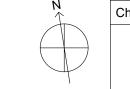
- 1. SEE DRAWING E001 FOR GENERAL NOTES, SYMBOLS, AND ABBREVIATIONS.
- 2. SEE THE E800 SERIES DRAWINGS FOR PANEL SCHEDULES AND CIRCUITING.
- 3. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE LATEST ADOPTED EDITION OF THE NEC.
- 4. ALL CONDUCTORS SHALL BE CU AND THHN/THWN UNLESS OTHERWISE NOTED.
- 5. IN NO CASE SHALL A 277V, 20A/1P CIRCUIT BE LOADED TO OVER 4.432KW OR A 120V, 20A/1P CIRCUIT BE LOADED TO OVER 1.92KW. MAKE CHANGES AS REQUIRED TO ENSURE COMPLIANT LOADING ON
- 6. EC TO COORDINATE ALL HVAC AND PLUMBING EQUIPMENT LOCATIONS IN FIELD PRIOR TO CIRCUIT INSTALLATION.
- EC TO TRACE ALL CIRCUITS BACK TO SOURCE AND TAKE LOAD READINGS ON CIRCUITS AND PANELBOARD AS REQUIRED TO VERIFY CODE COMPLIANT LOADING AFTER PROJECT IS COMPLETE. MAKE ADJUSTMENTS AS REQUIRED. EC TO RELABEL ALL CIRCUIT DIRECTORIES FOR NEW CONFIGURATION AS REQUIRED AND PROVIDE AS-BUILTS TO CLIENT.
- 8. EC SHALL ENSURE THAT ANY EXPOSED CONDUIT INSTALLED IN FINISHED SPACES FROM THE ELECTRICAL PANEL TO THE RESTROOM IS PAINTED WITH ONE COAT PRIMER AND TWO COATS OF PAINT TO MATCH THE EXISTING SURFACE FINISH. THERE SHALL BE NO EXPOSED CONDUIT WITHIN THE RESTROOM AREAS.
- 9. KEYED NOTES MAY NOT APPEAR ON ALL PLAN VIEWS.
- 10. SEE DRAWINGS E002-E004 FOR ELECTRICAL PANEL LOCATIONS.
- 11. ALL NEW RECEPTACLE LOCATION MOUNTING HEIGHTS TO MATCH EXISTING IN SAME ROOM.

#### **NEW WORK KEYED NOTES**

- E1) EC SHALL FURNISH AND INSTALL CONDUCTORS, RACEWAY, AND DOUBLE GANG BOX WITH (1) NEMA 5-20R DUPLEX RECEPTACLE TO POWER THE CORD AND PLUG CONNECTED ELECTRIC WATER COOLER HYDROBOOST SYSTEM AND (1) 20A MOTOR RATED TOGGLE SWITCH FOR HARDWIRE CONNECTION TO THE COOLING UNIT. FURNISH AND INSTALL (2)#12 AWG CU & (1) #12 CU GND, MC CABLE AND PROVIDE POWER FROM THE MOTOR RATED TOGGLE SWITCH TO THE ELECTRIC WATER COOLER COOLING UNIT. MOUNT RECEPTACLE AND TOGGLE SWITCH WITHIN SPACE BEHIND ELECTRIC WATER COOLER ACCESS PANEL COVER. COORDINATE WORK WITH ELECTRIC WATER COOLER INSTALLER.
- E2 EC SHALL FURNISH AND INSTALL CONDUCTORS AND RACEWAY TO THE NEW AUTOMATIC PAPER TOWEL EQUIPMENT. PROVIDE ADDITIONAL WIRING AND SPLICES AS REQUIRED TO MAKE CONNECTIONS TO MULTIPLE AUTOMATIC PAPER TOWEL DEVICES. MINIMUM WIRE SIZE SHALL BE #12 AWG CU. COORDINATE WORK WITH PAPER TOWEL EQUIPMENT INSTALLER.
- E3 EC SHALL FURNISH AND INSTALL GFCI RECEPTACLES UNDERNEATH THE SINK COUNTERTOP TO SUPPLY POWER TO NEW AUTOMATIC FAUCET, LED SINK LIGHTING, AND SOAP DISPENSERS. PROVIDE POWER FROM THE NEW 120V CIRCUIT SHOWN AND EXTEND CIRCUIT TO FEED THE ADDITIONAL RECEPTACLES FOR EACH SINK. MINIMUM WIRE SIZE SHALL BE #12 AWG CU. COORDINATE WORK WITH INSTALLATION OF SINK EQUIPMENT...
- EC SHALL FURNISH AND INSTALL RECEPTACLE AT THE LOCATION SHOWN PROVIDE SPLICES AND NEW WIRING TO EXTEND OF SHOWING SHOWN. PROVIDE SPLICES AND NEW WIRING TO EXTEND CIRCUIT
- EC SHALL FURNISH AND INSTALL GFCI RECEPTACLES ON DEDICATED BRANCH CIRCUITS (1975) DEDICATED BRANCH CIRCUITS UNDERNEATH THE SINK COUNTERTOP TO SUPPLY POWER TO NEW HAND DRYERS. COORDINATE WORK WITH INSTALLATION OF SINK EQUIPMENT.
- EC SHALL FURNISH AND INSTALL NEW 24V OCCUPANCY SENSOR WALL SWITCH AND 20A, 120/277V POWER PACK TO COORDINATE WITH CEILING MOUNTED LIGHTING CONTROLS. PROVIDE SPLICES AND NEW WIRING TO EXTEND CIRCUIT AS REQUIRED TO THE POWER PACK. REFER TO DETAIL 3/E701 FOR LOW VOLTAGE OCCUPANCY SENSOR WIRING DIAGRAM.
- EC SHALL FURNISH AND INSTALL GFCI RECEPTACLE AND NEW WIRING AND MAKE CONNECTIONS TO THE WIRING AND MAKE CONNECTIONS TO EXISTING RECEPTACLE IN ADJACENT ROOM.
- E8 EC SHALL FURNISH AND INSTALL NEW WIRING AND CONDUIT TO EDGELIT MIRRORS. COORDINATE 120V POWER SUPPLY WITH 120V POWER PACK AND CEILING LIGHTING CONTROLS AS SHOWN IN DETAIL 4/E701.
- (E9) NEW RECEPTACLE AT EXISTING LOCATION.



KEY PLAN - LEVEL 200



1/4" = 1'-0"

CONVERSE WINKLER ARCHITECTURE 331 MONTGOMERY AVE BALA CYNWYD, PA 19144

**MEP ENGINEERS:** 



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Contact: Kevin Sultanik e-mail: ksultanik@aroraengineers.com

STRUCTURAL ENGINEERS:

CSA GROUP 1341 NORTH DELAWARE AVENUE, SUITE 507 PHILADELPHIA, PA 19125

Ph: 215.427.8700 Fax: 215.427.8752

Contact: Wing Au e-mail: wau@csagroup.com



REVISIONS: Description Date 11/08/19 ELEC UPDATE

/ANIA CENTE PENNSYLV,

**DEMOLITION & NEW FLOOR** PLANS - ROOM S (EXHIBIT)

CW1615 Project number November 25, 2019 RR,AS Drawn by Checked by

- 1. SEE DRAWING E001 FOR GENERAL NOTES, SYMBOLS, AND
- 2. PRIOR TO THE START OF WORK, EC SHALL LOCATE ALL LIGHTING AND POWER PANEL SUPPLY CIRCUITS FOR THE WORK AREA AND RECORD PANEL AND CIRCUIT NUMBER ON RECORD DRAWINGS.
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- 5. FURNISH AND INSTALL JUNCTION BOXES WHERE REQUIRED TO CONTINUE CIRCUITS OUTSIDE OF WORK AREA.
- 6. KEYED NOTES MAY NOT APPEAR ON ALL PLAN VIEWS

#### **DEMOLITION KEYED NOTES**

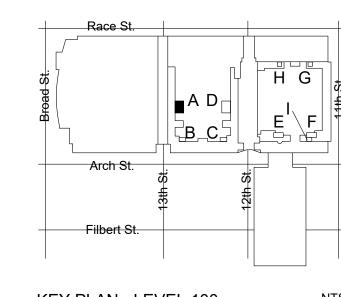
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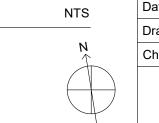
#### **GENERAL NEW WORK NOTES**

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- EC TO COORDINATE ALL HVAC AND PLUMBING EQUIPMENT LOCATIONS IN FIELD PRIOR TO CIRCUIT INSTALLATION.
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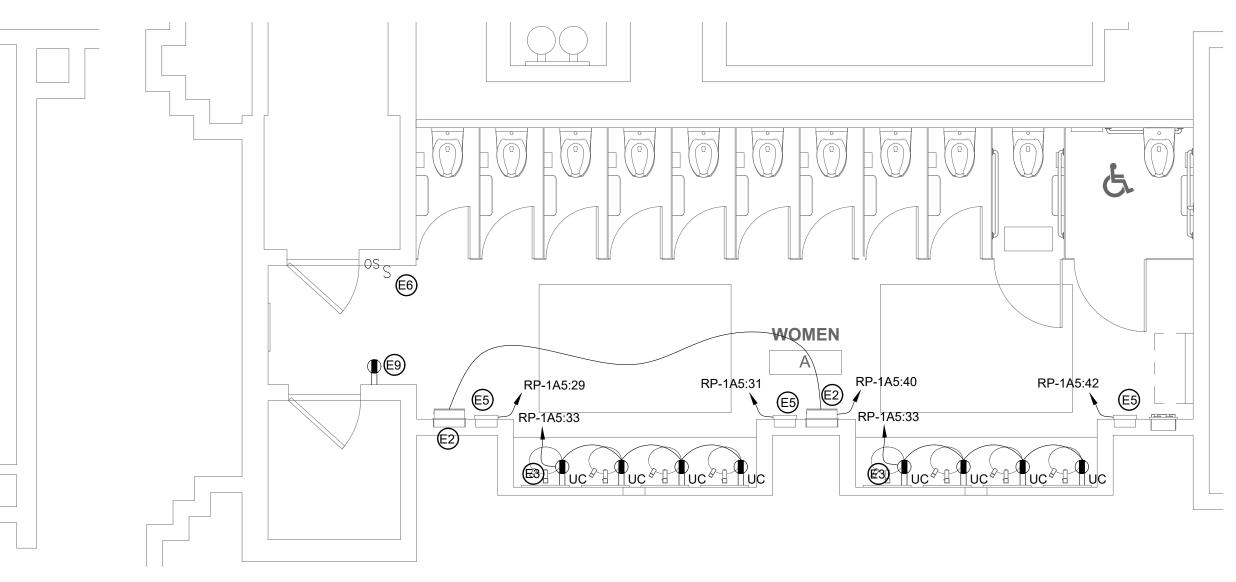
#### **NEW WORK KEYED NOTES**

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- E2 EC SHALL FURNISH AND INSTALL CONDUCTORS AND RACEWAY TO THE NEW AUTOMATIC PAPER TOWEL EQUIPMENT. PROVIDE ADDITIONAL WIRING AND SPLICES AS REQUIRED TO MAKE CONNECTIONS TO MULTIPLE AUTOMATIC PAPER TOWEL DEVICES. MINIMUM WIRE SIZE SHALL BE #12 AWG CU. COORDINATE WORK WITH PAPER TOWEL EQUIPMENT INSTALLER.
- EC SHALL FURNISH AND INSTALL GFCI RECEPTACLES UNDERNEATH THE SINK COUNTERTOP TO SUPPLY POWER TO NEW AUTOMATIC FAUCET, LED SINK LIGHTING, AND SOAP DISPENSERS.PROVIDE POWER FROM THE NEW 120V CIRCUIT SHOWN AND EXTEND CIRCUIT TO FEED THE ADDITIONAL RECEPTACLES FOR EACH SINK. MINIMUM WIRE SIZE SHALL BE #12 AWG CU. COORDINATE WORK WITH INSTALLATION OF SINK EQUIPMENT.
- EC SHALL FURNISH AND INSTALL RECEPTACLE AT THE LOCATION SHOWN. PROVIDE SPLICES AND NEW WIRING TO EXTEND CIRCUIT AS REQUIRED.
- E5 EC SHALL FURNISH AND INSTALL NEW CONDUCTOR AND RACEWAY TO THE NEW WALL MOUNTED HAND DRYER EQUIPMENT.
- E6 EC SHALL FURNISH AND INSTALL NEW 24V OCCUPANCY SENSOR WALL SWITCH AND 20A, 120/277V POWER PACK TO COORDINATE WITH CEILING MOUNTED LIGHTING CONTROLS. PROVIDE SPLICES AND NEW WIRING TO EXTEND CIRCUIT AS REQUIRED TO THE POWER PACK. REFER TO DETAIL 3/E701 FOR LOW VOLTAGE OCCUPANCY SENSOR WIRING DIAGRAM.
- E7 EC SHALL FURNISH AND INSTALL GFCI RECEPTACLE AND NEW WIRING AND MAKE CONNECTIONS TO EXISTING RECEPTACLE IN ADJACENT ROOM.
- ES EC SHALL FURNISH AND INSTALL NEW WIRING AND CONDUIT TO EDGELIT MIRRORS. COORDINATE 120V POWER SUPPLY WITH 120V POWER PACK AND CEILING LIGHTING CONTROLS AS SHOWN IN DETAIL 4/E701.
- (E9) NEW RECEPTACLE AT EXISTING LOCATION.





(SEMINAR) Project number November 25, 2019 Drawn by Checked by

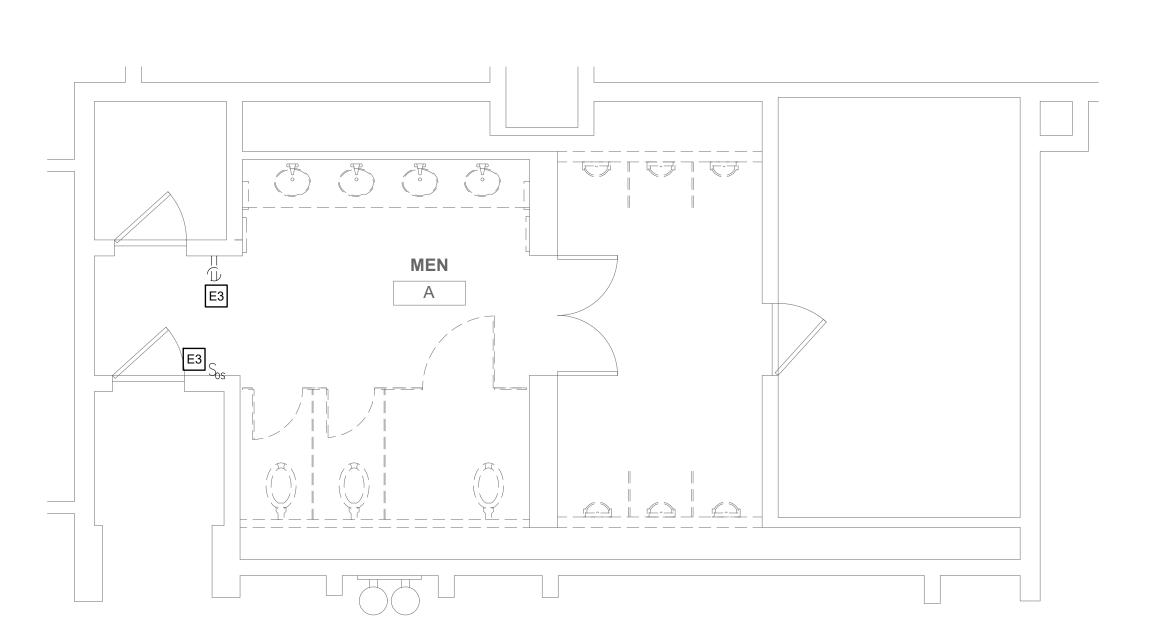


#### 4 FLOOR PLAN - MEN'S ROOM A

RP-1A5:34

E111 SCALE: 1/4" = 1'-0"

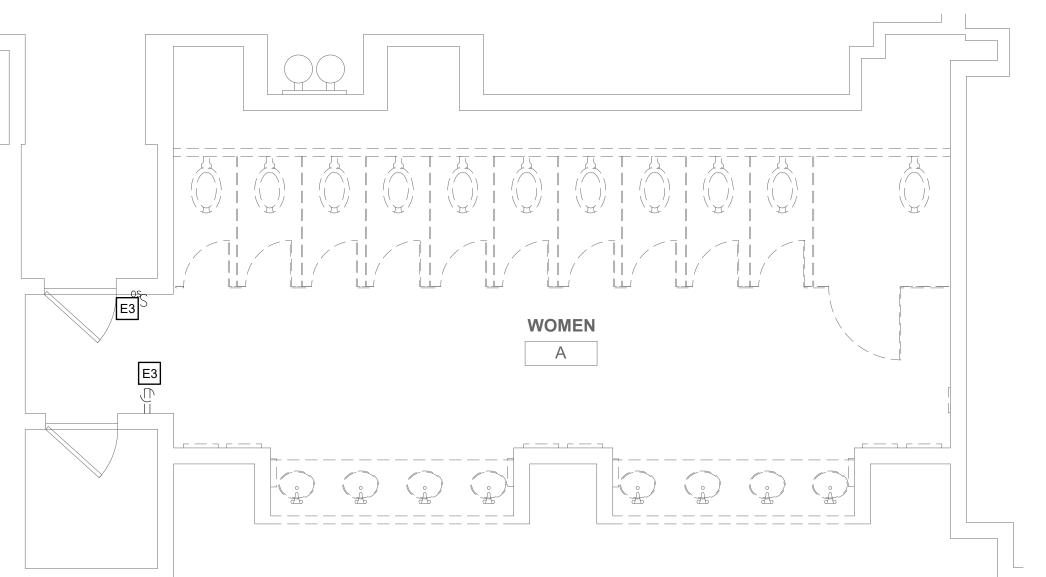
3 FLOOR PLAN - WOMEN'S ROOM A



RP-1A5:35

MEN

**DEMO PLAN - MEN'S ROOM A** E111 SCALE: 1/4" = 1'-0"



1 DEMO PLAN - WOMEN'S ROOM A E111 SCALE: 1/4" = 1'-0"

KEY PLAN - LEVEL 100

1/4" = 1'-0"

**DEMOLITION &** 

**NEW FLOOR** 

PLANS - ROOM A

CW1615

RR,AS

**CONVERSE** 

ARCHITECTURE 331 MONTGOMERY AVE BALA CYNWYD, PA 19144

**ARORA**°

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e-mail: ksultanik@aroraengineers.com

1341 NORTH DELAWARE AVENUE,

RYAN M. ROGALA

Description

Date

REVISIONS:

/ANIA CENTER

PENNSYLVA CONVENTION C

STRUCTURAL ENGINEERS:

PHILADELPHIA, PA 19125

e-mail: wau@csagroup.com

WINKLER

**MEP ENGINEERS:** 

Contact: Kevin Sultanik

CSA GROUP

Ph: 215.427.8700

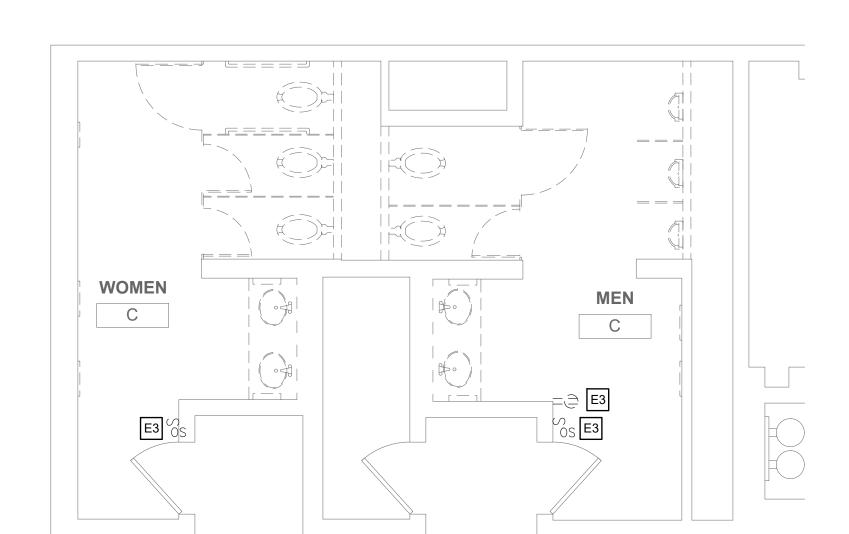
Fax: 215.427.8752

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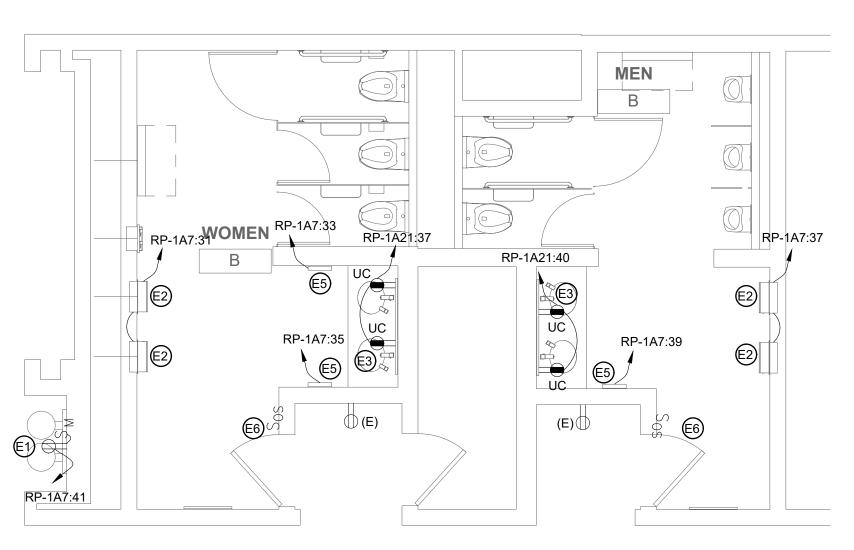
SUITE 507

#### MEN RP-1A7:30 o RP-1A21:33 RP-1A21:34 RP-1A21:31 RP-1A7:32 RP-1A21:32 WOMEN **E**3 UC ` RP-1A21:35 RP-1A21:36 RP-1A21:38 **(E6)**

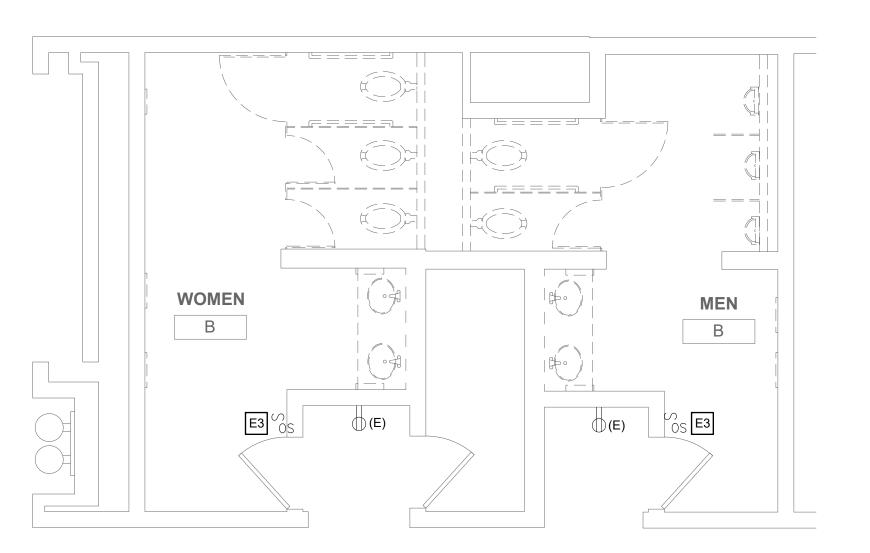
#### 4 FLOOR PLAN - MEN'S & WOMEN'S ROOM C E112 SCALE: 1/4" = 1'-0"



DEMO PLAN - MEN'S & WOMEN'S ROOM C E112 SCALE: 1/4" = 1'-0"



#### 3 FLOOR PLAN - MEN'S & WOMEN'S ROOM B E112 SCALE: 1/4" = 1'-0"



1 DEMO PLAN - MEN'S & WOMEN'S ROOM B E112 SCALE: 1/4" = 1'-0"

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#### **DEMOLITION KEYED NOTES**

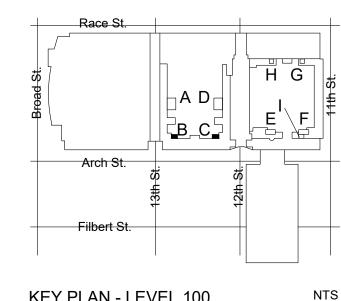
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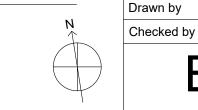
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- E2 EC SHALL FURNISH AND INSTALL CONDUCTORS AND RACEWAY TO THE NEW AUTOMATIC PAPER TOWEL EQUIPMENT. PROVIDE ADDITIONAL WIRING AND SPLICES AS REQUIRED TO MAKE CONNECTIONS TO MULTIPLE AUTOMATIC PAPER TOWEL DEVICES. MINIMUM WIRE SIZE SHALL BE #12 AWG CU. COORDINATE WORK WITH PAPER TOWEL EQUIPMENT INSTALLER.
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- EC SHALL FURNISH AND INSTALL RECEPTACLE AT THE LOCATION SHOWN. PROVIDE SPLICES AND NEW WIRING TO EXTEND CIRCUIT AS REQUIRED.
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- (E9) NEW RECEPTACLE AT EXISTING LOCATION.



KEY PLAN - LEVEL 100





331 MONTGOMERY AVE BALA CYNWYD, PA 19144

**MEP ENGINEERS:** 



**CONVERSE** 

**ARCHITECTURE** 

WINKLER

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Ph: 215.427.8700 Fax: 215.427.8752

Contact: Wing Au e-mail: wau@csagroup.com

PHILADELPHIA, PA 19125



REVISIONS:

Description Date

PENNSYLV CONVENTION

**DEMOLITION & NEW FLOOR** PLANS - ROOMS B, C (SEMINAR)

CW1615 Project number November 25, 2019 RR,AS Drawn by

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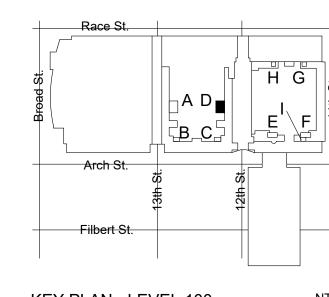
- E1 NOT USED.
- E2 EC SHALL DEMOLISH EXISTING RECEPTACLE/LIGHT SWITCH, BACK BOX, CONDUIT AND WIRE. CAP WIRES ABOVE CEILING FOR SPLICING AND EXTENSION TO NEW LOCATION PER NEW WORK KEYED NOTE
- E3 EC SHALL DISCONNECT AND REMOVE THE EXISTING RECEPTACLE/OCCUPANCY SENSOR SWITCH. PRESERVE THE EXISTING CONDUCTORS FOR RECONNECTION TO NEW RECEPTACLE/SWITCHING CONTROLS.
- E4 EC SHALL DISCONNECT THE POWER SUPPLY TO THE EXISTING WATER COOLERS TO BE REMOVED. PULL CONDUCTORS BACK TO NEAREST JUNCTION BOX, CUT, REMOVE AND CAP REMAINING CONDUCTORS. MAINTAIN CONTINUITY TO OTHER LOADS ON SAME CIRCUIT. CUT THE CONDUIT AT THE WATER COOLER LOCATION TO BE FLUSH WITH WALL AND CAP THE END. COORDINATE WORK WITH OTHER DISCIPLINES AS REQUIRED.

#### **GENERAL NEW WORK NOTES**

- 1. SEE DRAWING E001 FOR GENERAL NOTES, SYMBOLS, AND ABBREVIATIONS.
- 2. SEE THE E800 SERIES DRAWINGS FOR PANEL SCHEDULES AND CIRCUITING.
- 3. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE LATEST ADOPTED EDITION OF THE NEC.
- 4. ALL CONDUCTORS SHALL BE CU AND THHN/THWN UNLESS OTHERWISE NOTED.
- IN NO CASE SHALL A 277V, 20A/1P CIRCUIT BE LOADED TO OVER 4.432KW OR A 120V, 20A/1P CIRCUIT BE LOADED TO OVER 1.92KW. MAKE CHANGES AS REQUIRED TO ENSURE COMPLIANT LOADING ON BREAKERS.
- EC TO COORDINATE ALL HVAC AND PLUMBING EQUIPMENT LOCATIONS IN FIELD PRIOR TO CIRCUIT INSTALLATION.
- 7. EC TO TRACE ALL CIRCUITS BACK TO SOURCE AND TAKE LOAD READINGS ON CIRCUITS AND PANELBOARD AS REQUIRED TO VERIFY CODE COMPLIANT LOADING AFTER PROJECT IS COMPLETE. MAKE ADJUSTMENTS AS REQUIRED. EC TO RELABEL ALL CIRCUIT DIRECTORIES FOR NEW CONFIGURATION AS REQUIRED AND PROVIDE AS-BUILTS TO CLIENT.
- 8. EC SHALL ENSURE THAT ANY EXPOSED CONDUIT INSTALLED IN FINISHED SPACES FROM THE ELECTRICAL PANEL TO THE RESTROOM IS PAINTED WITH ONE COAT PRIMER AND TWO COATS OF PAINT TO MATCH THE EXISTING SURFACE FINISH. THERE SHALL BE NO EXPOSED CONDUIT WITHIN THE RESTROOM AREAS.
- 9. KEYED NOTES MAY NOT APPEAR ON ALL PLAN VIEWS.
- 10. SEE DRAWINGS E002-E004 FOR ELECTRICAL PANEL LOCATIONS.
- 11. ALL NEW RECEPTACLE LOCATION MOUNTING HEIGHTS TO MATCH EXISTING IN SAME ROOM.

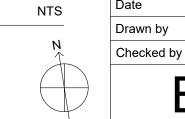
#### NEW WORK KEYED NOTES

- E1 EC SHALL FURNISH AND INSTALL CONDUCTORS, RACEWAY, AND DOUBLE GANG BOX WITH (1) NEMA 5-20R DUPLEX RECEPTACLE TO POWER THE CORD AND PLUG CONNECTED ELECTRIC WATER COOLER HYDROBOOST SYSTEM AND (1) 20A MOTOR RATED TOGGLE SWITCH FOR HARDWIRE CONNECTION TO THE COOLING UNIT. FURNISH AND INSTALL (2)#12 AWG CU & (1) #12 CU GND, MC CABLE AND PROVIDE POWER FROM THE MOTOR RATED TOGGLE SWITCH TO THE ELECTRIC WATER COOLER COOLING UNIT. MOUNT RECEPTACLE AND TOGGLE SWITCH WITHIN SPACE BEHIND ELECTRIC WATER COOLER ACCESS PANEL COVER. COORDINATE WORK WITH ELECTRIC WATER COOLER INSTALLER.
- EC SHALL FURNISH AND INSTALL CONDUCTORS AND RACEWAY TO THE NEW AUTOMATIC PAPER TOWEL EQUIPMENT. PROVIDE ADDITIONAL WIRING AND SPLICES AS REQUIRED TO MAKE CONNECTIONS TO MULTIPLE AUTOMATIC PAPER TOWEL DEVICES. MINIMUM WIRE SIZE SHALL BE #12 AWG CU. COORDINATE WORK WITH PAPER TOWEL EQUIPMENT INSTALLER.
- E3 EC SHALL FURNISH AND INSTALL GFCI RECEPTACLES
  UNDERNEATH THE SINK COUNTERTOP TO SUPPLY POWER TO NEW
  AUTOMATIC FAUCET, LED SINK LIGHTING, AND SOAP
  DISPENSERS.PROVIDE POWER FROM THE NEW 120V CIRCUIT
  SHOWN AND EXTEND CIRCUIT TO FEED THE ADDITIONAL
  RECEPTACLES FOR EACH SINK. MINIMUM WIRE SIZE SHALL BE #12
  AWG CU. COORDINATE WORK WITH INSTALLATION OF SINK
  EQUIPMENT.
- EC SHALL FURNISH AND INSTALL RECEPTACLE AT THE LOCATION SHOWN. PROVIDE SPLICES AND NEW WIRING TO EXTEND CIRCUIT AS REQUIRED.
- E5 EC SHALL FURNISH AND INSTALL NEW CONDUCTOR AND RACEWAY TO THE NEW WALL MOUNTED HAND DRYER EQUIPMENT.
- E6 EC SHALL FURNISH AND INSTALL NEW 24V OCCUPANCY SENSOR WALL SWITCH AND 20A, 120/277V POWER PACK TO COORDINATE WITH CEILING MOUNTED LIGHTING CONTROLS. PROVIDE SPLICES AND NEW WIRING TO EXTEND CIRCUIT AS REQUIRED TO THE POWER PACK. REFER TO DETAIL 3/E701 FOR LOW VOLTAGE OCCUPANCY SENSOR WIRING DIAGRAM.
- EC SHALL FURNISH AND INSTALL GFCI RECEPTACLE AND NEW WIRING AND MAKE CONNECTIONS TO EXISTING RECEPTACLE IN ADJACENT ROOM.
- ES EC SHALL FURNISH AND INSTALL NEW WIRING AND CONDUIT TO EDGELIT MIRRORS. COORDINATE 120V POWER SUPPLY WITH 120V POWER PACK AND CEILING LIGHTING CONTROLS AS SHOWN IN DETAIL 4/E701.
- (E9) NEW RECEPTACLE AT EXISTING LOCATION.



KEY PLAN - LEVEL 100





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REVISIONS:

No. Description Date

PENNSYLVANIA
CONVENTION CENTER
RESTROOM RENOVATIONS

DEMOLITION &
NEW FLOOR
PLANS - ROOM D
(SEMINAR)

Project number CW1615

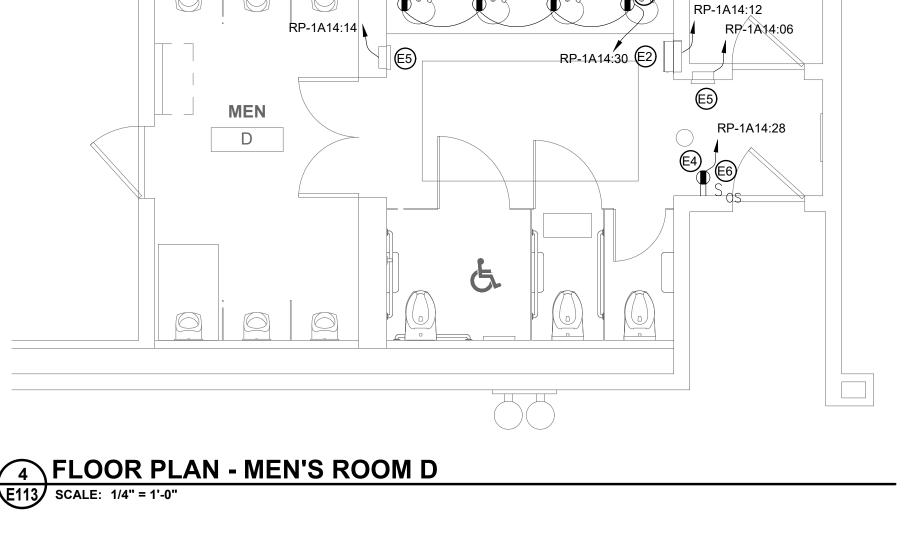
Date November 25, 2019

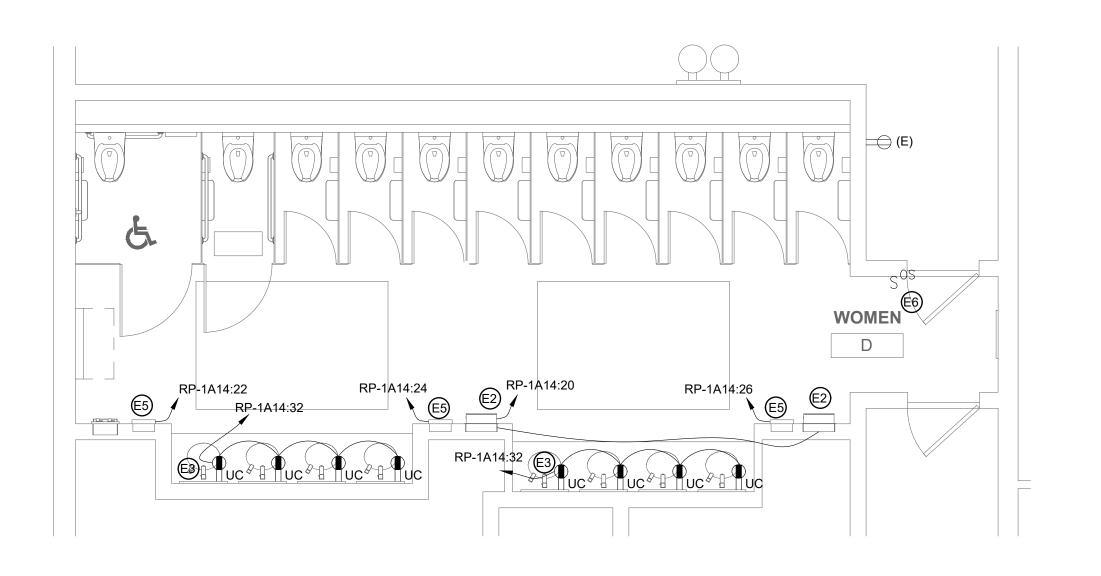
Drawn by RR,AS

E113

1/4" = 1'-0"

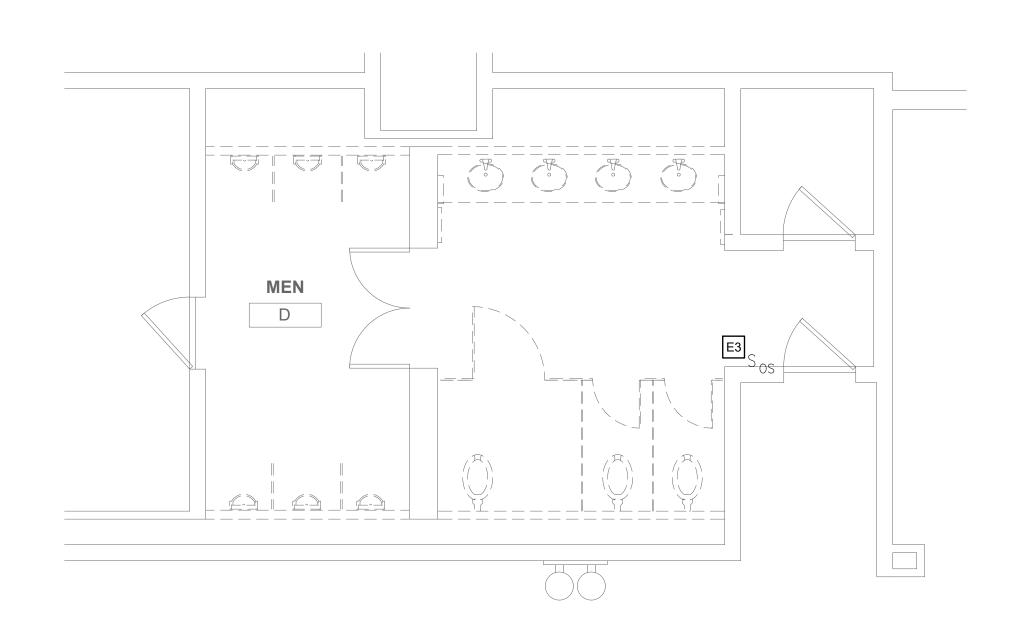
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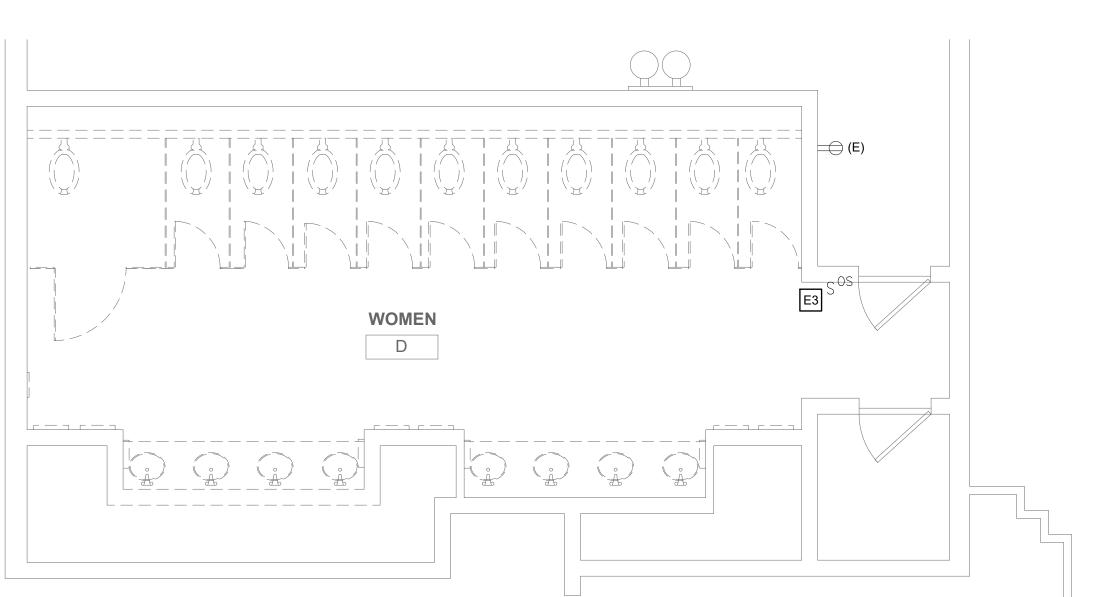




3 FLOOR PLAN - WOMEN'S ROOM D

E113 SCALE: 1/4" = 1'-0"

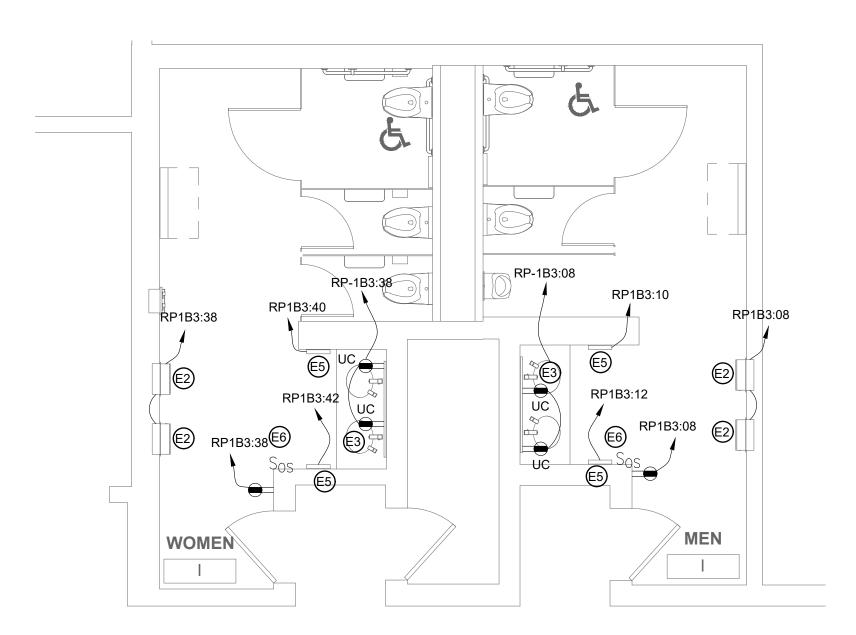




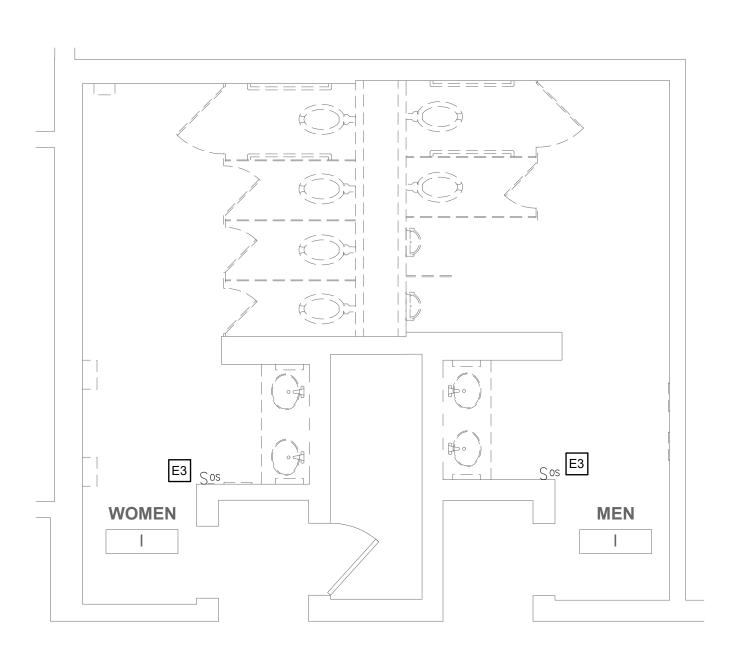
DEMO PLAN - MEN'S ROOM D
E113 SCALE: 1/4" = 1'-0"

1 DEMO PLAN - WOMEN'S ROOM D

E113 SCALE: 1/4" = 1'-0"



FLOOR PLAN - MEN'S & WOMEN'S ROOM I



DEMO PLAN - MEN'S & WOMEN'S ROOM I
E114 SCALE: 1/4" = 1'-0"

#### GENERAL DEMOLITION NOTES

- 1. SEE DRAWING E001 FOR GENERAL NOTES, SYMBOLS, AND ABBREVIATIONS.
- 2. PRIOR TO THE START OF WORK, EC SHALL LOCATE ALL LIGHTING AND POWER PANEL SUPPLY CIRCUITS FOR THE WORK AREA AND RECORD PANEL AND CIRCUIT NUMBER ON RECORD DRAWINGS.
- EC SHALL FIELD INVESTIGATE EXISTING LIGHT FIXTURES TO VERIFY NORMAL AND EMERGENCY FIXTURE VOLTAGES AND ENSURE NEW LIGHTING FIXTURES ARE SELECTED WITH VOLTAGES TO MATCH EXISTING.
- 4. EC SHALL REMOVE AND DISPOSE OF ALL LIGHT FIXTURES WITHIN THE WORK AREA. TAG AND PRESERVE EXISTING LIGHTING CIRCUITS FOR FUTURE RECONNECTION TO NEW LIGHTING FIXTURES.
- 5. FURNISH AND INSTALL JUNCTION BOXES WHERE REQUIRED TO CONTINUE CIRCUITS OUTSIDE OF WORK AREA.
- 6. KEYED NOTES MAY NOT APPEAR ON ALL PLAN VIEWS.

#### **DEMOLITION KEYED NOTES**

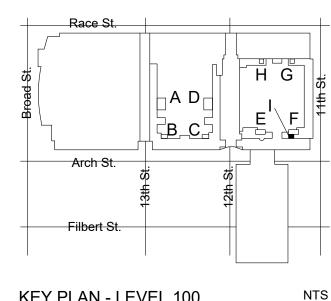
- E1 NOT USED.
- E2 EC SHALL DEMOLISH EXISTING RECEPTACLE/LIGHT SWITCH, BACK BOX, CONDUIT AND WIRE. CAP WIRES ABOVE CEILING FOR SPLICING AND EXTENSION TO NEW LOCATION PER NEW WORK KEYED NOTE E4.
- E3 EC SHALL DISCONNECT AND REMOVE THE EXISTING RECEPTACLE/OCCUPANCY SENSOR SWITCH. PRESERVE THE EXISTING CONDUCTORS FOR RECONNECTION TO NEW RECEPTACLE/SWITCHING CONTROLS.
- E4 EC SHALL DISCONNECT THE POWER SUPPLY TO THE EXISTING WATER COOLERS TO BE REMOVED. PULL CONDUCTORS BACK TO NEAREST JUNCTION BOX, CUT, REMOVE AND CAP REMAINING CONDUCTORS. MAINTAIN CONTINUITY TO OTHER LOADS ON SAME CIRCUIT. CUT THE CONDUIT AT THE WATER COOLER LOCATION TO BE FLUSH WITH WALL AND CAP THE END. COORDINATE WORK WITH OTHER DISCIPLINES AS REQUIRED.

#### GENERAL NEW WORK NOTES

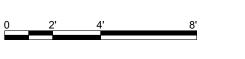
- 1. SEE DRAWING E001 FOR GENERAL NOTES, SYMBOLS, AND ABBREVIATIONS.
- 2. SEE THE E800 SERIES DRAWINGS FOR PANEL SCHEDULES AND CIRCUITING.
- 3. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE LATEST ADOPTED EDITION OF THE NEC.
- 4. ALL CONDUCTORS SHALL BE CU AND THHN/THWN UNLESS OTHERWISE NOTED.
- IN NO CASE SHALL A 277V, 20A/1P CIRCUIT BE LOADED TO OVER 4.432KW OR A 120V, 20A/1P CIRCUIT BE LOADED TO OVER 1.92KW. MAKE CHANGES AS REQUIRED TO ENSURE COMPLIANT LOADING ON BREAKERS.
- 6. EC TO COORDINATE ALL HVAC AND PLUMBING EQUIPMENT LOCATIONS IN FIELD PRIOR TO CIRCUIT INSTALLATION.
- 7. EC TO TRACE ALL CIRCUITS BACK TO SOURCE AND TAKE LOAD READINGS ON CIRCUITS AND PANELBOARD AS REQUIRED TO VERIFY CODE COMPLIANT LOADING AFTER PROJECT IS COMPLETE. MAKE ADJUSTMENTS AS REQUIRED. EC TO RELABEL ALL CIRCUIT DIRECTORIES FOR NEW CONFIGURATION AS REQUIRED AND PROVIDE AS-BUILTS TO CLIENT.
- 8. EC SHALL ENSURE THAT ANY EXPOSED CONDUIT INSTALLED IN FINISHED SPACES FROM THE ELECTRICAL PANEL TO THE RESTROOM IS PAINTED WITH ONE COAT PRIMER AND TWO COATS OF PAINT TO MATCH THE EXISTING SURFACE FINISH. THERE SHALL BE NO EXPOSED CONDUIT WITHIN THE RESTROOM AREAS.
- 9. KEYED NOTES MAY NOT APPEAR ON ALL PLAN VIEWS.
- 10. SEE DRAWINGS E002-E004 FOR ELECTRICAL PANEL LOCATIONS.
- 11. ALL NEW RECEPTACLE LOCATION MOUNTING HEIGHTS TO MATCH EXISTING IN SAME ROOM.

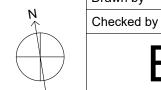
#### **NEW WORK KEYED NOTES**

- E1 EC SHALL FURNISH AND INSTALL CONDUCTORS, RACEWAY, AND DOUBLE GANG BOX WITH (1) NEMA 5-20R DUPLEX RECEPTACLE TO POWER THE CORD AND PLUG CONNECTED ELECTRIC WATER COOLER HYDROBOOST SYSTEM AND (1) 20A MOTOR RATED TOGGLE SWITCH FOR HARDWIRE CONNECTION TO THE COOLING UNIT. FURNISH AND INSTALL (2)#12 AWG CU & (1) #12 CU GND, MC CABLE AND PROVIDE POWER FROM THE MOTOR RATED TOGGLE SWITCH TO THE ELECTRIC WATER COOLER COOLING UNIT. MOUNT RECEPTACLE AND TOGGLE SWITCH WITHIN SPACE BEHIND ELECTRIC WATER COOLER ACCESS PANEL COVER. COORDINATE WORK WITH ELECTRIC WATER COOLER INSTALLER.
- EC SHALL FURNISH AND INSTALL CONDUCTORS AND RACEWAY TO THE NEW AUTOMATIC PAPER TOWEL EQUIPMENT. PROVIDE ADDITIONAL WIRING AND SPLICES AS REQUIRED TO MAKE CONNECTIONS TO MULTIPLE AUTOMATIC PAPER TOWEL DEVICES. MINIMUM WIRE SIZE SHALL BE #12 AWG CU. COORDINATE WORK WITH PAPER TOWEL EQUIPMENT INSTALLER.
- ES EC SHALL FURNISH AND INSTALL GFCI RECEPTACLES UNDERNEATH THE SINK COUNTERTOP TO SUPPLY POWER TO NEW AUTOMATIC FAUCET, LED SINK LIGHTING, AND SOAP DISPENSERS.PROVIDE POWER FROM THE NEW 120V CIRCUIT SHOWN AND EXTEND CIRCUIT TO FEED THE ADDITIONAL RECEPTACLES FOR EACH SINK. MINIMUM WIRE SIZE SHALL BE #12 AWG CU. COORDINATE WORK WITH INSTALLATION OF SINK EQUIPMENT.
- EC SHALL FURNISH AND INSTALL RECEPTACLE AT THE LOCATION SHOWN. PROVIDE SPLICES AND NEW WIRING TO EXTEND CIRCUIT AS REQUIRED.
- E5 EC SHALL FURNISH AND INSTALL NEW CONDUCTOR AND RACEWAY TO THE NEW WALL MOUNTED HAND DRYER EQUIPMENT.
- EC SHALL FURNISH AND INSTALL NEW 24V OCCUPANCY SENSOR WALL SWITCH AND 20A, 120/277V POWER PACK TO COORDINATE WITH CEILING MOUNTED LIGHTING CONTROLS. PROVIDE SPLICES AND NEW WIRING TO EXTEND CIRCUIT AS REQUIRED TO THE POWER PACK. REFER TO DETAIL 3/E701 FOR LOW VOLTAGE OCCUPANCY SENSOR WIRING DIAGRAM.
- E7 EC SHALL FURNISH AND INSTALL GFCI RECEPTACLE AND NEW WIRING AND MAKE CONNECTIONS TO EXISTING RECEPTACLE IN ADJACENT ROOM.
- ES EC SHALL FURNISH AND INSTALL NEW WIRING AND CONDUIT TO EDGELIT MIRRORS. COORDINATE 120V POWER SUPPLY WITH 120V POWER PACK AND CEILING LIGHTING CONTROLS AS SHOWN IN DETAIL 4/E701.
- (E9) NEW RECEPTACLE AT EXISTING LOCATION.



KEY PLAN - LEVEL 100





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Contact: Wing Au e-mail: wau@csagroup.com



REVISIONS:

No. Description

No. Description Date

PENNSYLVANIA
NVENTION CENTER
SESTROOM RENOVATIONS

RESTROO

DEMOLITION &
NEW FLOOR
PLANS - ROOM I
(SEMINAR)

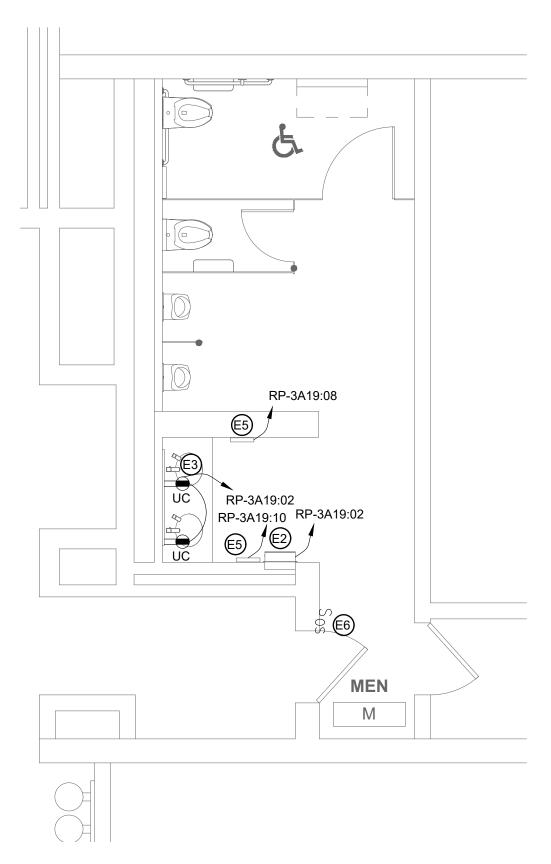
Project number CW1615

Date November 25, 2019

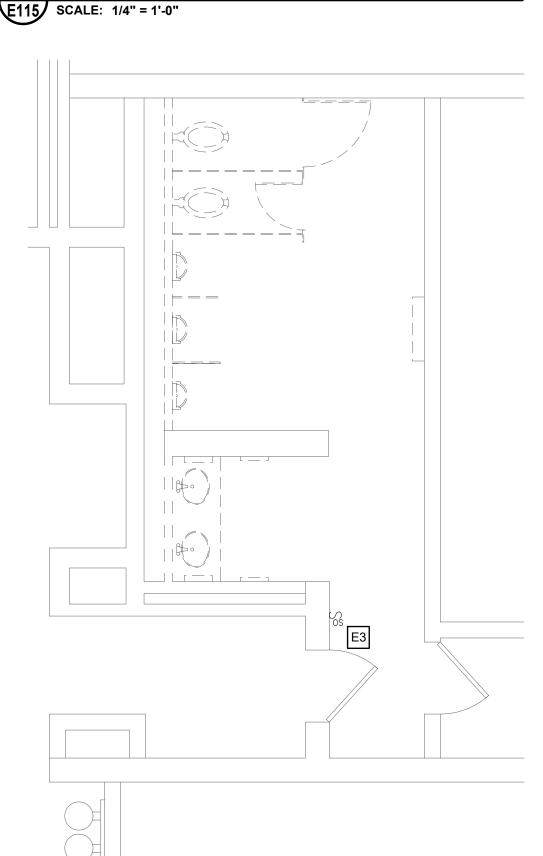
Drawn by RR,AS

E114

Scale 1/4" = 1'-0"

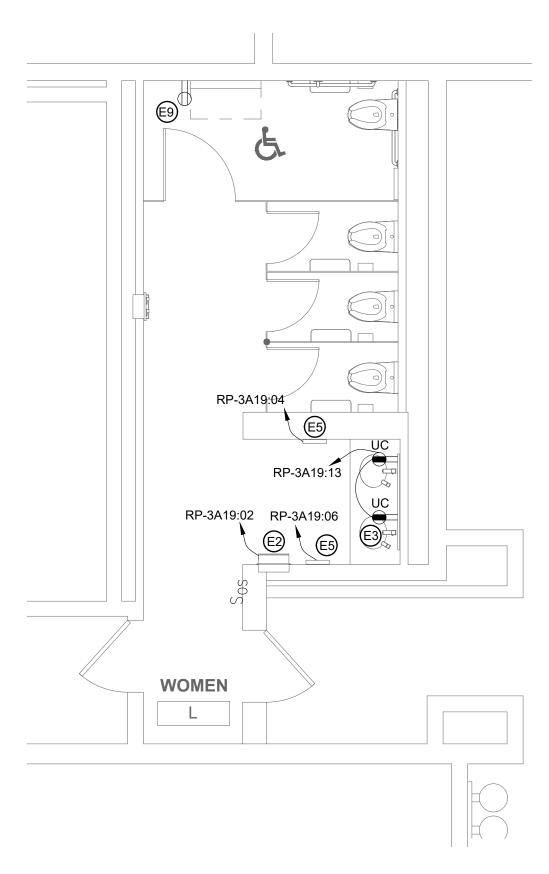


#### 4 FLOOR PLAN - MEN'S ROOM M

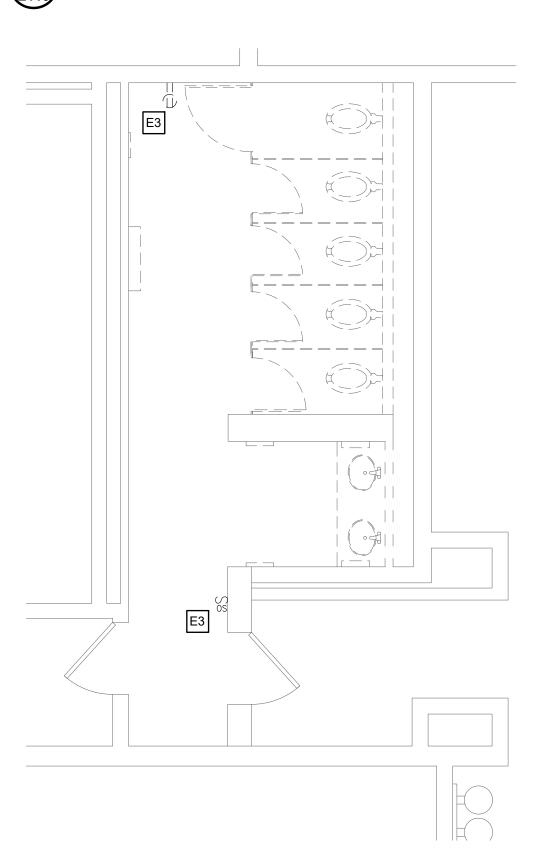


DEMO PLAN - MEN'S ROOM M

E115 SCALE: 1/4" = 1'-0"



#### 3 FLOOR PLAN - WOMEN'S ROOM L E115 SCALE: 1/4" = 1'-0"



1 DEMO PLAN - WOMEN'S ROOM L E115 SCALE: 1/4" = 1'-0"

#### **GENERAL DEMOLITION NOTES**

- 1. SEE DRAWING E001 FOR GENERAL NOTES, SYMBOLS, AND ABBREVIATIONS.
- 2. PRIOR TO THE START OF WORK, EC SHALL LOCATE ALL LIGHTING AND POWER PANEL SUPPLY CIRCUITS FOR THE WORK AREA AND RECORD PANEL AND CIRCUIT NUMBER ON RECORD DRAWINGS.
- 3. EC SHALL FIELD INVESTIGATE EXISTING LIGHT FIXTURES TO VERIFY NORMAL AND EMERGENCY FIXTURE VOLTAGES AND ENSURE NEW LIGHTING FIXTURES ARE SELECTED WITH VOLTAGES TO MATCH EXISTING.
- 4. EC SHALL REMOVE AND DISPOSE OF ALL LIGHT FIXTURES WITHIN THE WORK AREA. TAG AND PRESERVE EXISTING LIGHTING CIRCUITS FOR FUTURE RECONNECTION TO NEW LIGHTING FIXTURES.
- 5. FURNISH AND INSTALL JUNCTION BOXES WHERE REQUIRED TO CONTINUE CIRCUITS OUTSIDE OF WORK AREA.
- 6. KEYED NOTES MAY NOT APPEAR ON ALL PLAN VIEWS.

#### DEMOLITION KEYED NOTES

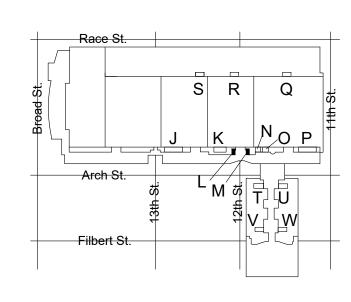
- E1 NOT USED.
- E2 EC SHALL DEMOLISH EXISTING RECEPTACLE/LIGHT SWITCH, BACK BOX, CONDUIT AND WIRE. CAP WIRES ABOVE CEILING FOR SPLICING AND EXTENSION TO NEW LOCATION PER NEW WORK KEYED NOTE E4.
- E3 EC SHALL DISCONNECT AND REMOVE THE EXISTING RECEPTACLE/OCCUPANCY SENSOR SWITCH. PRESERVE THE EXISTING CONDUCTORS FOR RECONNECTION TO NEW RECEPTACLE/SWITCHING CONTROLS.
- E4 EC SHALL DISCONNECT THE POWER SUPPLY TO THE EXISTING WATER COOLERS TO BE REMOVED. PULL CONDUCTORS BACK TO NEAREST JUNCTION BOX, CUT, REMOVE AND CAP REMAINING CONDUCTORS. MAINTAIN CONTINUITY TO OTHER LOADS ON SAME CIRCUIT. CUT THE CONDUIT AT THE WATER COOLER LOCATION TO BE FLUSH WITH WALL AND CAP THE END. COORDINATE WORK WITH OTHER DISCIPLINES AS REQUIRED.

#### **GENERAL NEW WORK NOTES**

- 1. SEE DRAWING E001 FOR GENERAL NOTES, SYMBOLS, AND ABBREVIATIONS.
- 2. SEE THE E800 SERIES DRAWINGS FOR PANEL SCHEDULES AND CIRCUITING.
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- 7. EC TO TRACE ALL CIRCUITS BACK TO SOURCE AND TAKE LOAD READINGS ON CIRCUITS AND PANELBOARD AS REQUIRED TO VERIFY CODE COMPLIANT LOADING AFTER PROJECT IS COMPLETE. MAKE ADJUSTMENTS AS REQUIRED. EC TO RELABEL ALL CIRCUIT DIRECTORIES FOR NEW CONFIGURATION AS REQUIRED AND PROVIDE AS-BUILTS TO CLIENT.
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- 9. KEYED NOTES MAY NOT APPEAR ON ALL PLAN VIEWS.
- 10. SEE DRAWINGS E002-E004 FOR ELECTRICAL PANEL LOCATIONS.
- 11. ALL NEW RECEPTACLE LOCATION MOUNTING HEIGHTS TO MATCH EXISTING IN SAME ROOM.

#### **NEW WORK KEYED NOTES**

- E1 EC SHALL FURNISH AND INSTALL CONDUCTORS, RACEWAY, AND DOUBLE GANG BOX WITH (1) NEMA 5-20R DUPLEX RECEPTACLE TO POWER THE CORD AND PLUG CONNECTED ELECTRIC WATER COOLER HYDROBOOST SYSTEM AND (1) 20A MOTOR RATED TOGGLE SWITCH FOR HARDWIRE CONNECTION TO THE COOLING UNIT. FURNISH AND INSTALL (2)#12 AWG CU & (1) #12 CU GND, MC CABLE AND PROVIDE POWER FROM THE MOTOR RATED TOGGLE SWITCH TO THE ELECTRIC WATER COOLER COOLING UNIT. MOUNT RECEPTACLE AND TOGGLE SWITCH WITHIN SPACE BEHIND ELECTRIC WATER COOLER ACCESS PANEL COVER. COORDINATE WORK WITH ELECTRIC WATER COOLER INSTALLER.
- EC SHALL FURNISH AND INSTALL CONDUCTORS AND RACEWAY TO THE NEW AUTOMATIC PAPER TOWEL EQUIPMENT. PROVIDE ADDITIONAL WIRING AND SPLICES AS REQUIRED TO MAKE CONNECTIONS TO MULTIPLE AUTOMATIC PAPER TOWEL DEVICES. MINIMUM WIRE SIZE SHALL BE #12 AWG CU. COORDINATE WORK WITH PAPER TOWEL EQUIPMENT INSTALLER.
- E3 EC SHALL FURNISH AND INSTALL GFCI RECEPTACLES UNDERNEATH THE SINK COUNTERTOP TO SUPPLY POWER TO NEW AUTOMATIC FAUCET, LED SINK LIGHTING, AND SOAP DISPENSERS.PROVIDE POWER FROM THE NEW 120V CIRCUIT SHOWN AND EXTEND CIRCUIT TO FEED THE ADDITIONAL RECEPTACLES FOR EACH SINK. MINIMUM WIRE SIZE SHALL BE #12 AWG CU. COORDINATE WORK WITH INSTALLATION OF SINK EQUIPMENT.
- EC SHALL FURNISH AND INSTALL RECEPTACLE AT THE LOCATION SHOWN. PROVIDE SPLICES AND NEW WIRING TO EXTEND CIRCUIT AS REQUIRED.
- E5 EC SHALL FURNISH AND INSTALL NEW CONDUCTOR AND RACEWAY TO THE NEW WALL MOUNTED HAND DRYER EQUIPMENT.
- EC SHALL FURNISH AND INSTALL NEW 24V OCCUPANCY SENSOR WALL SWITCH AND 20A, 120/277V POWER PACK TO COORDINATE WITH CEILING MOUNTED LIGHTING CONTROLS. PROVIDE SPLICES AND NEW WIRING TO EXTEND CIRCUIT AS REQUIRED TO THE POWER PACK. REFER TO DETAIL 3/E701 FOR LOW VOLTAGE OCCUPANCY SENSOR WIRING DIAGRAM.
- E7 EC SHALL FURNISH AND INSTALL GFCI RECEPTACLE AND NEW WIRING AND MAKE CONNECTIONS TO EXISTING RECEPTACLE IN ADJACENT ROOM.
- ES SHALL FURNISH AND INSTALL NEW WIRING AND CONDUIT TO EDGELIT MIRRORS. COORDINATE 120V POWER SUPPLY WITH 120V POWER PACK AND CEILING LIGHTING CONTROLS AS SHOWN IN DETAIL 4/E701.
- (E9) NEW RECEPTACLE AT EXISTING LOCATION.



KEY PLAN - LEVEL 200

0 2' 4' 8'



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MEP ENGINEERS:



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Fax: 215.427.8752

Contact: Wing Au e-mail: wau@csagroup.com



REVISIONS:

No. Description Date

PENNSYLVANIA
ONVENTION CENTER
RESTROOM RENOVATIONS

DEMOLITION &
NEW FLOOR
PLANS - ROOMS
L, M (SEMINAR)

Project number CW1615

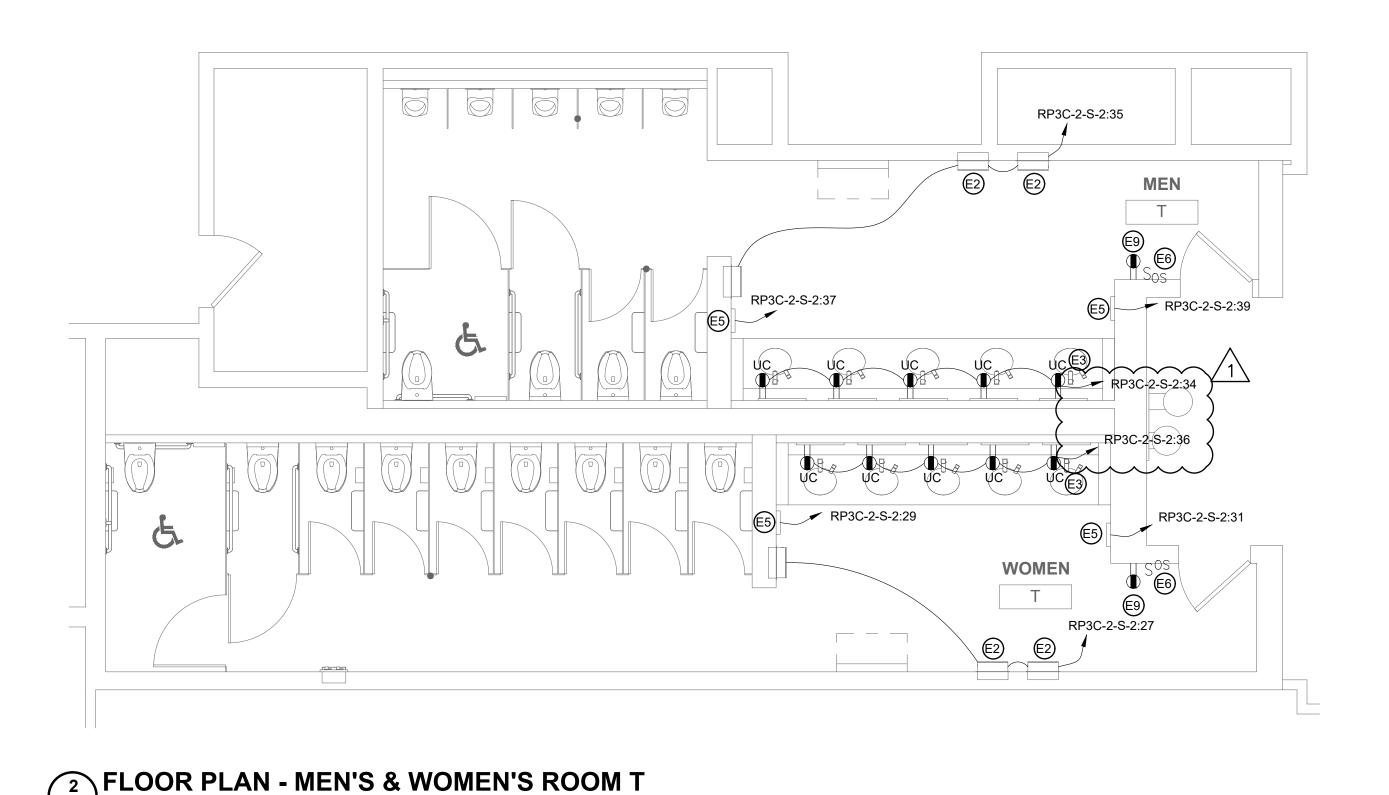
Date November 25, 2019

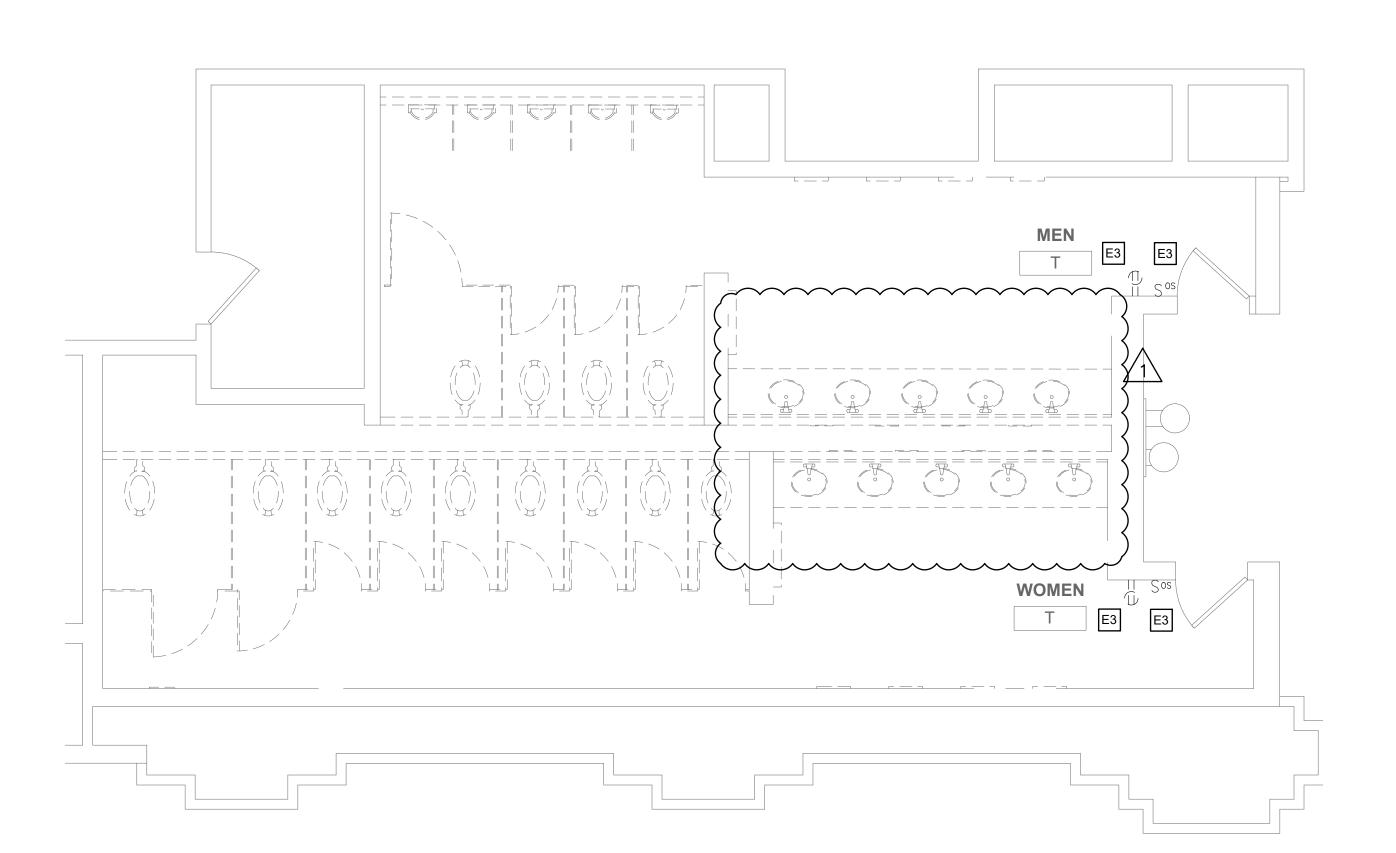
Drawn by RR,AS

Checked by HL

E115

ale 1/4" = 1'-0"





1 DEMO PLAN - MEN'S & WOMEN'S ROOM T

E116 SCALE: 1/4" = 1'-0"

#### **GENERAL DEMOLITION NOTES**

- 1. SEE DRAWING E001 FOR GENERAL NOTES, SYMBOLS, AND ARREVIATIONS
- 2. PRIOR TO THE START OF WORK, EC SHALL LOCATE ALL LIGHTING AND POWER PANEL SUPPLY CIRCUITS FOR THE WORK AREA AND RECORD PANEL AND CIRCUIT NUMBER ON RECORD DRAWINGS.
- 3. EC SHALL FIELD INVESTIGATE EXISTING LIGHT FIXTURES TO VERIFY NORMAL AND EMERGENCY FIXTURE VOLTAGES AND ENSURE NEW LIGHTING FIXTURES ARE SELECTED WITH VOLTAGES TO MATCH EXISTING.
- 4. EC SHALL REMOVE AND DISPOSE OF ALL LIGHT FIXTURES WITHIN THE WORK AREA. TAG AND PRESERVE EXISTING LIGHTING CIRCUITS FOR FUTURE RECONNECTION TO NEW LIGHTING FIXTURES.
- 5. FURNISH AND INSTALL JUNCTION BOXES WHERE REQUIRED TO CONTINUE CIRCUITS OUTSIDE OF WORK AREA.
- 6. KEYED NOTES MAY NOT APPEAR ON ALL PLAN VIEWS.

#### **DEMOLITION KEYED NOTES**

E1 NOT USED

- E2 EC SHALL DEMOLISH EXISTING RECEPTACLE/LIGHT SWITCH, BACK BOX, CONDUIT AND WIRE. CAP WIRES ABOVE CEILING FOR SPLICING AND EXTENSION TO NEW LOCATION PER NEW WORK KEYED NOTE F4
- E3 EC SHALL DISCONNECT AND REMOVE THE EXISTING RECEPTACLE/OCCUPANCY SENSOR SWITCH. PRESERVE THE EXISTING CONDUCTORS FOR RECONNECTION TO NEW RECEPTACLE/SWITCHING CONTROLS.
- E4 NOT USED.

#### GENERAL NEW WORK NOTES

- 1. SEE DRAWING E001 FOR GENERAL NOTES, SYMBOLS, AND ABBREVIATIONS.
- 2. SEE THE E800 SERIES DRAWINGS FOR PANEL SCHEDULES AND CIRCUITING.
- 3. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE LATEST ADOPTED EDITION OF THE NEC.
- 4. ALL CONDUCTORS SHALL BE CU AND THHN/THWN UNLESS OTHERWISE NOTED.
- IN NO CASE SHALL A 277V, 20A/1P CIRCUIT BE LOADED TO OVER 4.432KW OR A 120V, 20A/1P CIRCUIT BE LOADED TO OVER 1.92KW. MAKE CHANGES AS REQUIRED TO ENSURE COMPLIANT LOADING ON BREAKERS.
- 6. EC TO COORDINATE ALL HVAC AND PLUMBING EQUIPMENT LOCATIONS IN FIELD PRIOR TO CIRCUIT INSTALLATION.
- 7. EC TO TRACE ALL CIRCUITS BACK TO SOURCE AND TAKE LOAD READINGS ON CIRCUITS AND PANELBOARD AS REQUIRED TO VERIFY CODE COMPLIANT LOADING AFTER PROJECT IS COMPLETE. MAKE ADJUSTMENTS AS REQUIRED. EC TO RELABEL ALL CIRCUIT DIRECTORIES FOR NEW CONFIGURATION AS REQUIRED AND PROVIDE AS-BUILTS TO CLIENT.
- 8. EC SHALL ENSURE THAT ANY EXPOSED CONDUIT INSTALLED IN FINISHED SPACES FROM THE ELECTRICAL PANEL TO THE RESTROOM IS PAINTED WITH ONE COAT PRIMER AND TWO COATS OF PAINT TO MATCH THE EXISTING SURFACE FINISH. THERE SHALL BE NO EXPOSED CONDUIT WITHIN THE RESTROOM AREAS.
- 9. KEYED NOTES MAY NOT APPEAR ON ALL PLAN VIEWS.
- 10. SEE DRAWINGS E002-E004 FOR ELECTRICAL PANEL LOCATIONS.
- 11. ALL NEW RECEPTACLE LOCATION MOUNTING HEIGHTS TO MATCH EXISTING IN SAME ROOM.

#### NEW WORK KEYED NOTES

- E1) NOT USED.
- EC SHALL FURNISH AND INSTALL CONDUCTORS AND RACEWAY TO THE NEW AUTOMATIC PAPER TOWEL EQUIPMENT. PROVIDE ADDITIONAL WIRING AND SPLICES AS REQUIRED TO MAKE CONNECTIONS TO MULTIPLE AUTOMATIC PAPER TOWEL DEVICES. MINIMUM WIRE SIZE SHALL BE #12 AWG CU. COORDINATE WORK WITH PAPER TOWEL EQUIPMENT INSTALLER.
- EC SHALL FURNISH AND INSTALL GFCI RECEPTACLES
  UNDERNEATH THE SINK COUNTERTOP TO SUPPLY POWER TO NEW
  AUTOMATIC FAUCET, LED SINK LIGHTING, AND SOAP DISPENSERS.
  PROVIDE POWER FROM THE NEW 120V CIRCUIT SHOWN AND
  EXTEND CIRCUIT TO FEED THE ADDITIONAL RECEPTACLES FOR
  EACH SINK. MINIMUM WIRE SIZE SHALL BE #12 AWG CU.
  COORDINATE WORK WITH INSTALLATION OF SINK EQUIPMENT.
- EC SHALL FURNISH AND INSTALL RECEPTACLE AT THE LOCATION SHOWN. PROVIDE SPLICES AND NEW WIRING TO EXTEND CIRCUIT AS REQUIRED.
- E5 EC SHALL FURNISH AND INSTALL NEW CONDUCTOR AND RACEWAY TO THE NEW WALL MOUNTED HAND DRYER EQUIPMENT.
- EC SHALL FURNISH AND INSTALL NEW 24V OCCUPANCY SENSOR WALL SWITCH AND 20A, 120/277V POWER PACK TO COORDINATE WITH CEILING MOUNTED LIGHTING CONTROLS. PROVIDE SPLICES AND NEW WIRING TO EXTEND CIRCUIT AS REQUIRED TO THE POWER PACK. REFER TO DETAIL 3/E701 FOR LOW VOLTAGE OCCUPANCY SENSOR WIRING DIAGRAM.
- E7 EC SHALL FURNISH AND INSTALL GFCI RECEPTACLE AND NEW WIRING AND MAKE CONNECTIONS TO EXISTING RECEPTACLE IN ADJACENT ROOM.
- ES EC SHALL FURNISH AND INSTALL NEW WIRING AND CONDUIT TO EDGELIT MIRRORS. COORDINATE 120V POWER SUPPLY WITH 120V POWER PACK AND CEILING LIGHTING CONTROLS AS SHOWN IN DETAIL 4/E701.
- (E9) NEW RECEPTACLE AT EXISTING LOCATION.



CONVERSE

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Contact: Wing Au

SUITE 507

WINKLER

**MEP ENGINEERS:** 

REVISIONS:

lo. Description

No. Description Date

1 ELEC UPDATE 11/08/19

PENNSYLVANIA ONVENTION CENTER

CONVENTION CENT

DEMOLITION &
NEW FLOOR
PLANS - ROOM T
(SEMINAR)

Project number CW1615

Date November 25, 2019

Drawn by RR,AS

Checked by HL

E116

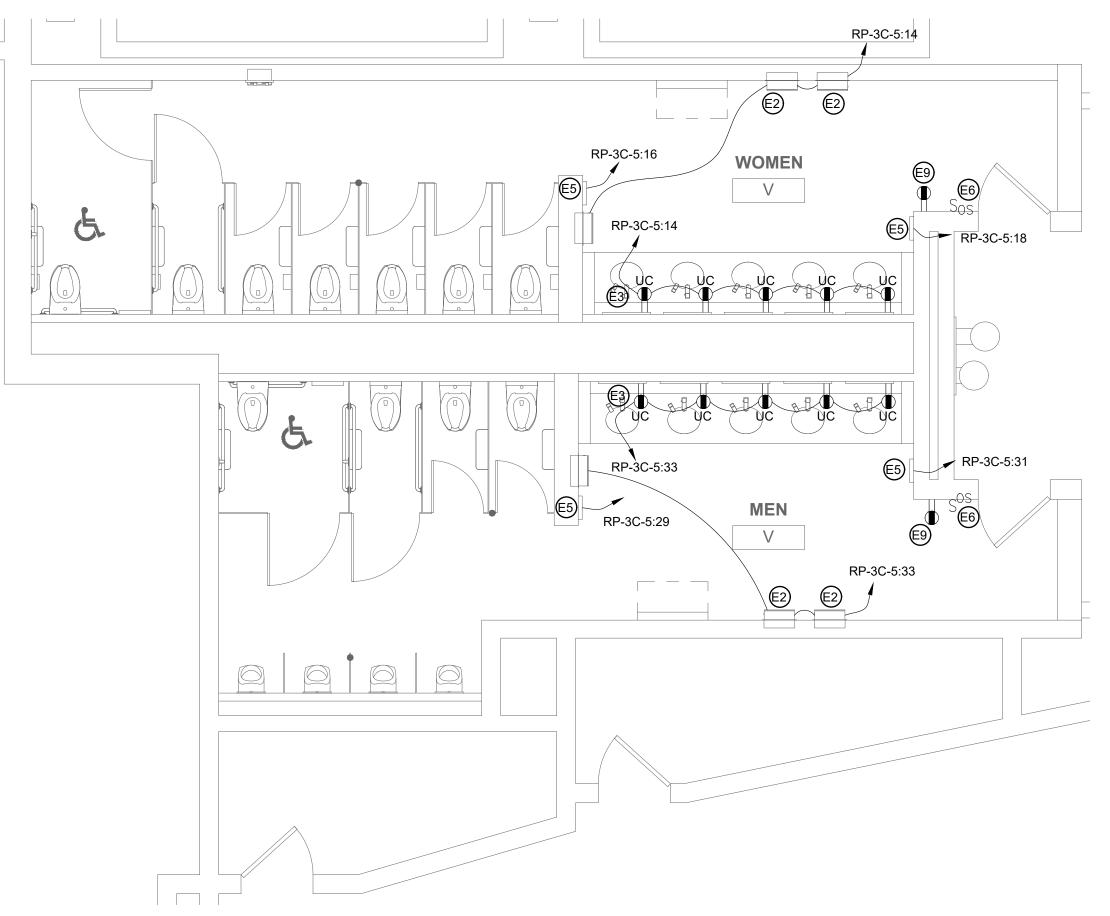
1/4" = 1'-0"

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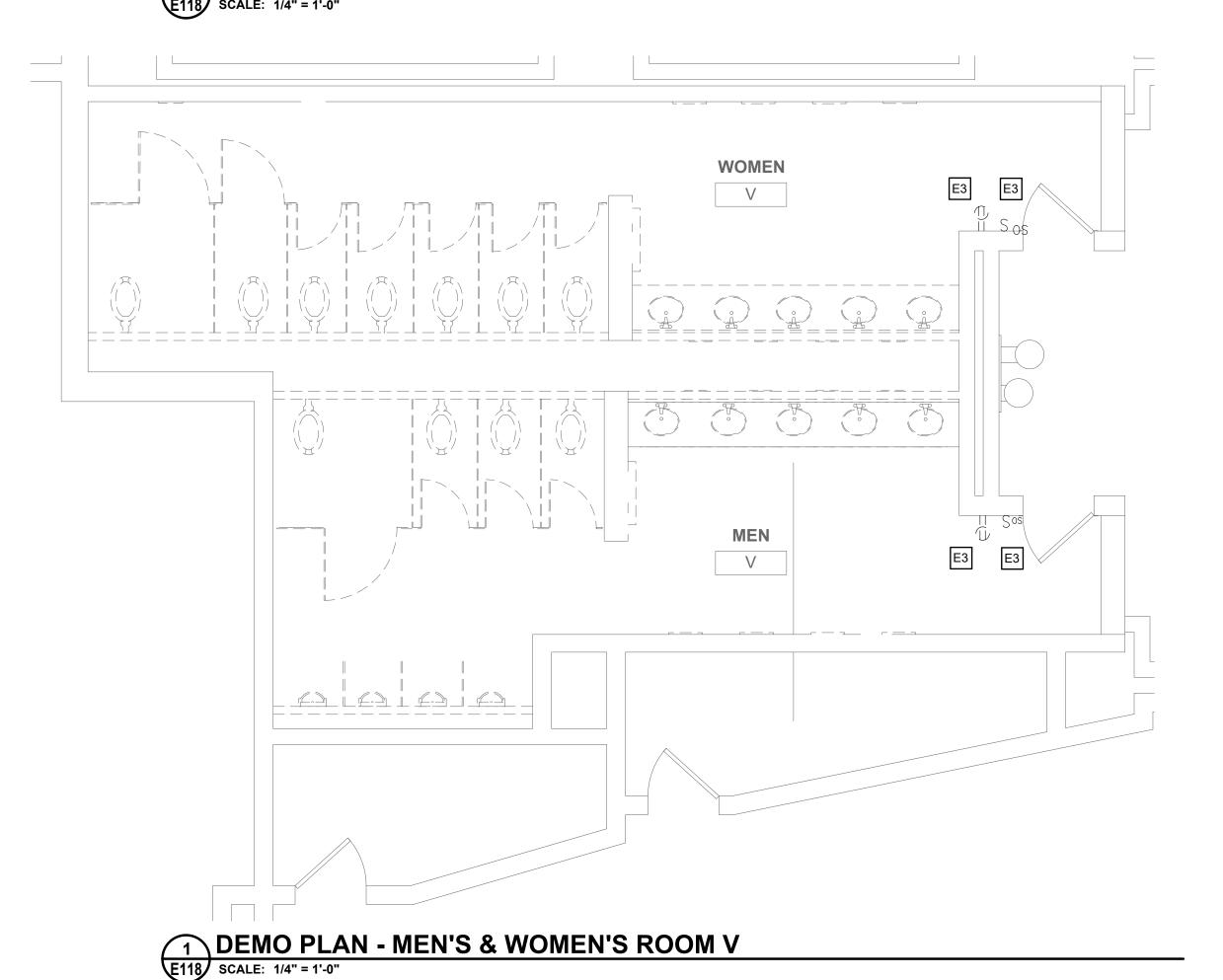
Filbert St.

KEY PLAN - LEVEL 200

S R



FLOOR PLAN - MEN'S & WOMEN'S ROOM V



#### GENERAL DEMOLITION NOTES

- 1. SEE DRAWING E001 FOR GENERAL NOTES, SYMBOLS, AND ABBREVIATIONS.
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- 3. EC SHALL FIELD INVESTIGATE EXISTING LIGHT FIXTURES TO VERIFY NORMAL AND EMERGENCY FIXTURE VOLTAGES AND ENSURE NEW LIGHTING FIXTURES ARE SELECTED WITH VOLTAGES TO MATCH EXISTING.
- 4. EC SHALL REMOVE AND DISPOSE OF ALL LIGHT FIXTURES WITHIN THE WORK AREA. TAG AND PRESERVE EXISTING LIGHTING CIRCUITS FOR FUTURE RECONNECTION TO NEW LIGHTING FIXTURES.
- 5. FURNISH AND INSTALL JUNCTION BOXES WHERE REQUIRED TO CONTINUE CIRCUITS OUTSIDE OF WORK AREA.
- 6. KEYED NOTES MAY NOT APPEAR ON ALL PLAN VIEWS.

#### **DEMOLITION KEYED NOTES**

E1 NOT USED.

E2 EC SHALL DEMOLISH EXISTING RECEPTACLE/LIGHT SWITCH, BACK BOX, CONDUIT AND WIRE. CAP WIRES ABOVE CEILING FOR SPLICING AND EXTENSION TO NEW LOCATION PER NEW WORK KEYED NOTE

E3 EC SHALL DISCONNECT AND REMOVE THE EXISTING RECEPTACLE/OCCUPANCY SENSOR SWITCH. PRESERVE THE EXISTING CONDUCTORS FOR RECONNECTION TO NEW RECEPTACLE/SWITCHING CONTROLS.

E4 EC SHALL DISCONNECT THE POWER SUPPLY TO THE EXISTING WATER COOLERS TO BE REMOVED. PULL CONDUCTORS BACK TO NEAREST JUNCTION BOX, CUT, REMOVE AND CAP REMAINING CONDUCTORS. MAINTAIN CONTINUITY TO OTHER LOADS ON SAME CIRCUIT. CUT THE CONDUIT AT THE WATER COOLER LOCATION TO BE FLUSH WITH WALL AND CAP THE END. COORDINATE WORK WITH OTHER DISCIPLINES AS REQUIRED.

#### **GENERAL NEW WORK NOTES**

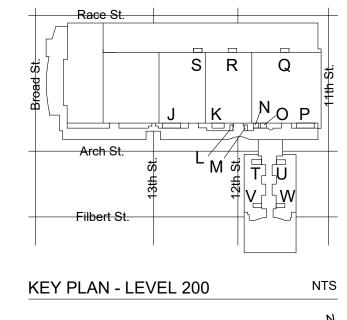
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- ALL CONDUCTORS SHALL BE CU AND THHN/THWN UNLESS

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- 5. IN NO CASE SHALL A 277V, 20A/1P CIRCUIT BE LOADED TO OVER 4.432KW OR A 120V, 20A/1P CIRCUIT BE LOADED TO OVER 1.92KW. MAKE CHANGES AS REQUIRED TO ENSURE COMPLIANT LOADING ON
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- 11. ALL NEW RECEPTACLE LOCATION MOUNTING HEIGHTS TO MATCH EXISTING IN SAME ROOM.

#### **NEW WORK KEYED NOTES**

- E1 EC SHALL FURNISH AND INSTALL CONDUCTORS, RACEWAY, AND DOUBLE GANG BOX WITH (1) NEMA 5-20R DUPLEX RECEPTACLE TO POWER THE CORD AND PLUG CONNECTED ELECTRIC WATER COOLER HYDROBOOST SYSTEM AND (1) 20A MOTOR RATED TOGGLE SWITCH FOR HARDWIRE CONNECTION TO THE COOLING UNIT. FURNISH AND INSTALL (2)#12 AWG CU & (1) #12 CU GND, MC CABLE AND PROVIDE POWER FROM THE MOTOR RATED TOGGLE SWITCH TO THE ELECTRIC WATER COOLER COOLING UNIT. MOUNT RECEPTACLE AND TOGGLE SWITCH WITHIN SPACE BEHIND ELECTRIC WATER COOLER ACCESS PANEL COVER. COORDINATE WORK WITH ELECTRIC WATER COOLER INSTALLER.
- E2 EC SHALL FURNISH AND INSTALL CONDUCTORS AND RACEWAY TO THE NEW AUTOMATIC PAPER TOWEL EQUIPMENT. PROVIDE ADDITIONAL WIRING AND SPLICES AS REQUIRED TO MAKE CONNECTIONS TO MULTIPLE AUTOMATIC PAPER TOWEL DEVICES. MINIMUM WIRE SIZE SHALL BE #12 AWG CU. COORDINATE WORK WITH PAPER TOWEL EQUIPMENT INSTALLER.
- (E3) EC SHALL FURNISH AND INSTALL GFCI RECEPTACLES UNDERNEATH THE SINK COUNTERTOP TO SUPPLY POWER TO NEW AUTOMATIC FAUCET, LED SINK LIGHTING, AND SOAP DISPENSERS.PROVIDE POWER FROM THE NEW 120V CIRCUIT SHOWN AND EXTEND CIRCUIT TO FEED THE ADDITIONAL RECEPTACLES FOR EACH SINK. MINIMUM WIRE SIZE SHALL BE #12 AWG CU. COORDINATE WORK WITH INSTALLATION OF SINK EQUIPMENT.
- E4 EC SHALL FURNISH AND INSTALL RECEPTACLE AT THE LOCATION SHOWN. PROVIDE SPLICES AND NEW WIRING TO EXTEND CIRCUIT AS REQUIRED.
- E5 EC SHALL FURNISH AND INSTALL NEW CONDUCTOR AND RACEWAY TO THE NEW WALL MOUNTED HAND DRYER EQUIPMENT.
- E6 EC SHALL FURNISH AND INSTALL NEW 24V OCCUPANCY SENSOR WALL SWITCH AND 20A, 120/277V POWER PACK TO COORDINATE WITH CEILING MOUNTED LIGHTING CONTROLS. PROVIDE SPLICES AND NEW WIRING TO EXTEND CIRCUIT AS REQUIRED TO THE POWER PACK. REFER TO DETAIL 3/E701 FOR LOW VOLTAGE OCCUPANCY SENSOR WIRING DIAGRAM.
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- E8 EC SHALL FURNISH AND INSTALL NEW WIRING AND CONDUIT TO EDGELIT MIRRORS. COORDINATE 120V POWER SUPPLY WITH 120V POWER PACK AND CEILING LIGHTING CONTROLS AS SHOWN IN DETAIL 4/E701.
- (E9) NEW RECEPTACLE AT EXISTING LOCATION.



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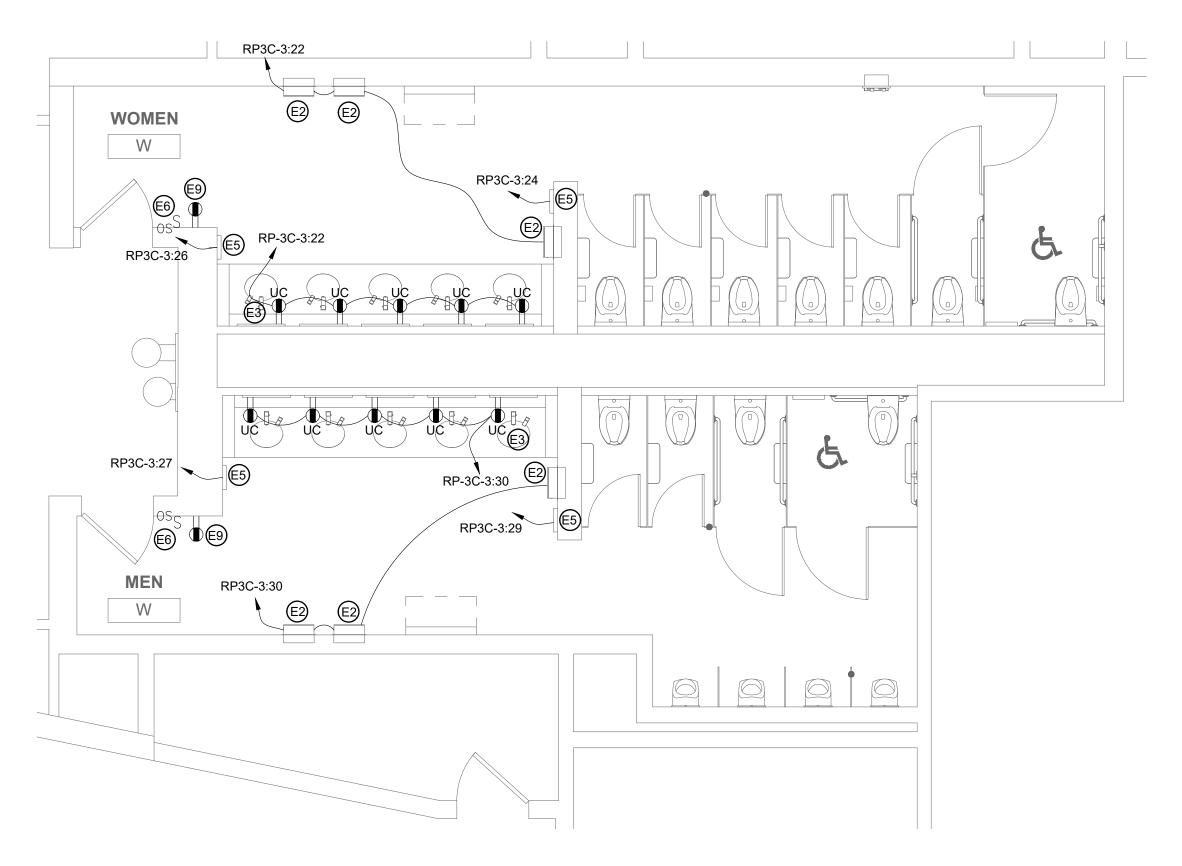


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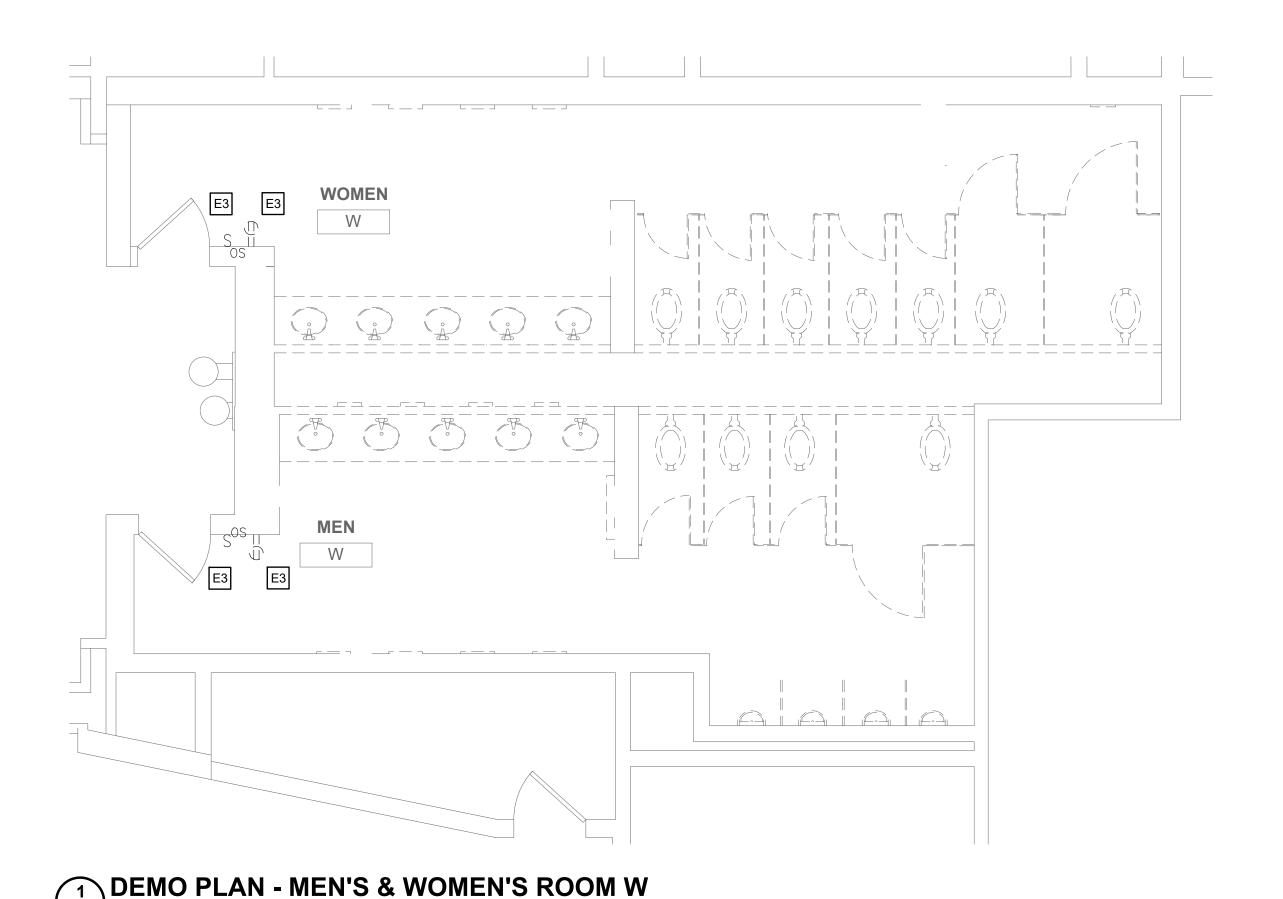
**DEMOLITION & NEW FLOOR** PLANS - ROOM V (SEMINAR)

CW1615 Project number November 25, 2019 RR,AS Drawn by Checked by



**7** FLOOR PLAN - MEN'S & WOMEN'S ROOM W

E119 SCALE: 1/4" = 1'-0"



#### **GENERAL DEMOLITION NOTES**

- 1. SEE DRAWING E001 FOR GENERAL NOTES, SYMBOLS, AND ABBREVIATIONS.
- 2. PRIOR TO THE START OF WORK, EC SHALL LOCATE ALL LIGHTING AND POWER PANEL SUPPLY CIRCUITS FOR THE WORK AREA AND RECORD PANEL AND CIRCUIT NUMBER ON RECORD DRAWINGS.
- 3. EC SHALL FIELD INVESTIGATE EXISTING LIGHT FIXTURES TO VERIFY NORMAL AND EMERGENCY FIXTURE VOLTAGES AND ENSURE NEW LIGHTING FIXTURES ARE SELECTED WITH VOLTAGES TO MATCH EXISTING.
- 4. EC SHALL REMOVE AND DISPOSE OF ALL LIGHT FIXTURES WITHIN THE WORK AREA. TAG AND PRESERVE EXISTING LIGHTING CIRCUITS FOR FUTURE RECONNECTION TO NEW LIGHTING FIXTURES.
- 5. FURNISH AND INSTALL JUNCTION BOXES WHERE REQUIRED TO CONTINUE CIRCUITS OUTSIDE OF WORK AREA.
- 6. KEYED NOTES MAY NOT APPEAR ON ALL PLAN VIEWS.

#### **DEMOLITION KEYED NOTES**

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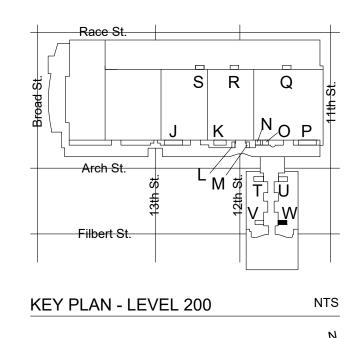
E3 EC SHALL DISCONNECT AND REMOVE THE EXISTING RECEPTACLE/OCCUPANCY SENSOR SWITCH. PRESERVE THE EXISTING CONDUCTORS FOR RECONNECTION TO NEW RECEPTACLE/SWITCHING CONTROLS.

E4 EC SHALL DISCONNECT THE POWER SUPPLY TO THE EXISTING WATER COOLERS TO BE REMOVED. PULL CONDUCTORS BACK TO NEAREST JUNCTION BOX, CUT, REMOVE AND CAP REMAINING CONDUCTORS. MAINTAIN CONTINUITY TO OTHER LOADS ON SAME CIRCUIT. CUT THE CONDUIT AT THE WATER COOLER LOCATION TO BE FLUSH WITH WALL AND CAP THE END. COORDINATE WORK WITH OTHER DISCIPLINES AS REQUIRED.

#### **GENERAL NEW WORK NOTES**

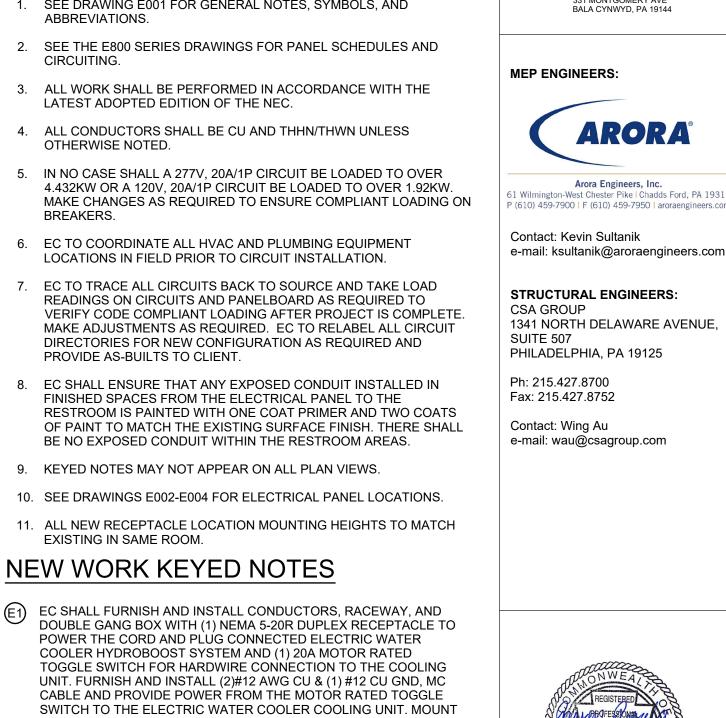
- 1. SEE DRAWING E001 FOR GENERAL NOTES, SYMBOLS, AND
- 3. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE
- 4.432KW OR A 120V, 20A/1P CIRCUIT BE LOADED TO OVER 1.92KW.
- 6. EC TO COORDINATE ALL HVAC AND PLUMBING EQUIPMENT
- 7. EC TO TRACE ALL CIRCUITS BACK TO SOURCE AND TAKE LOAD READINGS ON CIRCUITS AND PANELBOARD AS REQUIRED TO MAKE ADJUSTMENTS AS REQUIRED. EC TO RELABEL ALL CIRCUIT DIRECTORIES FOR NEW CONFIGURATION AS REQUIRED AND
- 8. EC SHALL ENSURE THAT ANY EXPOSED CONDUIT INSTALLED IN FINISHED SPACES FROM THE ELECTRICAL PANEL TO THE

- DOUBLE GANG BOX WITH (1) NEMA 5-20R DUPLEX RECEPTACLE TO POWER THE CORD AND PLUG CONNECTED ELECTRIC WATER COOLER HYDROBOOST SYSTEM AND (1) 20A MOTOR RATED TOGGLE SWITCH FOR HARDWIRE CONNECTION TO THE COOLING UNIT. FURNISH AND INSTALL (2)#12 AWG CU & (1) #12 CU GND, MC CABLE AND PROVIDE POWER FROM THE MOTOR RATED TOGGLE SWITCH TO THE ELECTRIC WATER COOLER COOLING UNIT. MOUNT RECEPTACLE AND TOGGLE SWITCH WITHIN SPACE BEHIND ELECTRIC WATER COOLER ACCESS PANEL COVER. COORDINATE WORK WITH ELECTRIC WATER COOLER INSTALLER.
- E2 EC SHALL FURNISH AND INSTALL CONDUCTORS AND RACEWAY TO THE NEW AUTOMATIC PAPER TOWEL EQUIPMENT. PROVIDE ADDITIONAL WIRING AND SPLICES AS REQUIRED TO MAKE CONNECTIONS TO MULTIPLE AUTOMATIC PAPER TOWEL DEVICES. MINIMUM WIRE SIZE SHALL BE #12 AWG CU. COORDINATE WORK WITH PAPER TOWEL EQUIPMENT INSTALLER.
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- ES EC SHALL FURNISH AND INSTALL NEW WIRING AND CONDUIT TO EDGELIT MIRRORS. COORDINATE 120V POWER SUPPLY WITH 120V POWER PACK AND CEILING LIGHTING CONTROLS AS SHOWN IN DETAIL 4/E701.
- (E9) NEW RECEPTACLE AT EXISTING LOCATION.



Drawn by Checked by

1/4" = 1'-0"



**REVISIONS:** No. Description Date

RYAN M. ROGALA

CONVERSE

WINKLER

ARCHITECTURE 331 MONTGOMERY AVE BALA CYNWYD, PA 19144

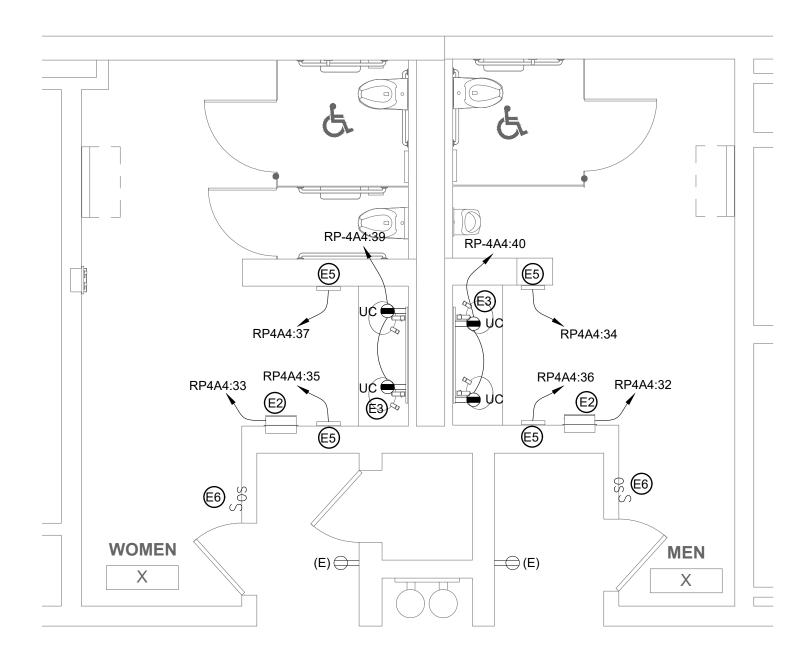
**ARORA**°

Arora Engineers, Inc.

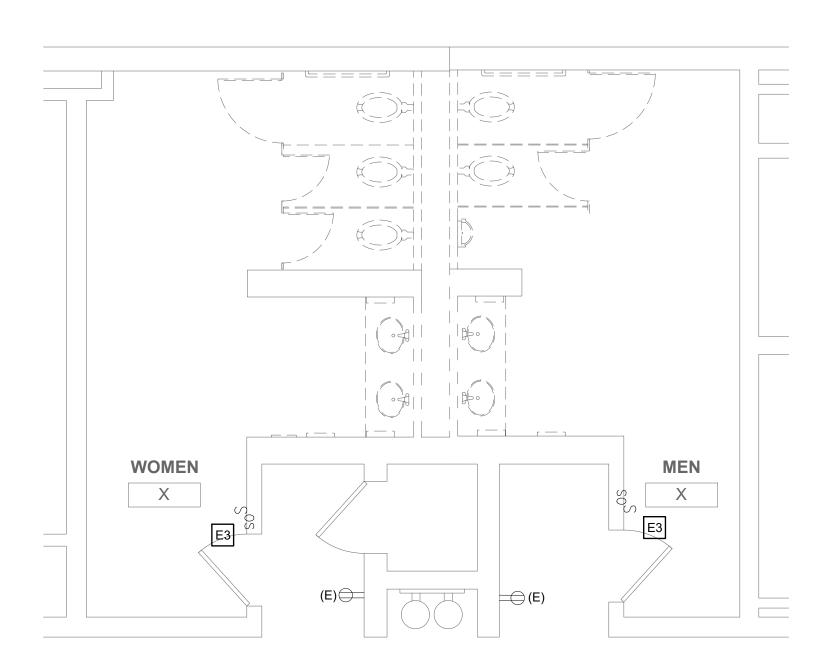
/ANIA CENTER PENNSYLV,

**DEMOLITION & NEW FLOOR** PLANS - ROOM W (SEMINAR)

CW1615 Project number November 25, 2019 RR,AS



#### FLOOR PLAN - MEN'S & WOMEN'S ROOM X E120 SCALE: 1/4" = 1'-0"



DEMO PLAN - MEN'S & WOMEN'S ROOM X

E120 SCALE: 1/4" = 1'-0"

#### **GENERAL DEMOLITION NOTES**

- 1. SEE DRAWING E001 FOR GENERAL NOTES, SYMBOLS, AND ABBREVIATIONS.
- 2. PRIOR TO THE START OF WORK, EC SHALL LOCATE ALL LIGHTING AND POWER PANEL SUPPLY CIRCUITS FOR THE WORK AREA AND RECORD PANEL AND CIRCUIT NUMBER ON RECORD DRAWINGS.
- EC SHALL FIELD INVESTIGATE EXISTING LIGHT FIXTURES TO VERIFY NORMAL AND EMERGENCY FIXTURE VOLTAGES AND ENSURE NEW LIGHTING FIXTURES ARE SELECTED WITH VOLTAGES TO MATCH EXISTING.
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- 6. KEYED NOTES MAY NOT APPEAR ON ALL PLAN VIEWS.

#### **DEMOLITION KEYED NOTES**

- E1 NOT USED.
- E2 EC SHALL DEMOLISH EXISTING RECEPTACLE/LIGHT SWITCH, BACK BOX, CONDUIT AND WIRE. CAP WIRES ABOVE CEILING FOR SPLICING AND EXTENSION TO NEW LOCATION PER NEW WORK KEYED NOTE F4.
- E3 EC SHALL DISCONNECT AND REMOVE THE EXISTING RECEPTACLE/OCCUPANCY SENSOR SWITCH. PRESERVE THE EXISTING CONDUCTORS FOR RECONNECTION TO NEW RECEPTACLE/SWITCHING CONTROLS.
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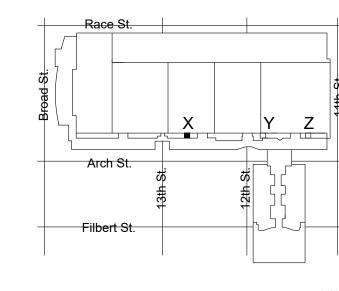
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- 3. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE
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#### NEW WORK KEYED NOTES

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  AUTOMATIC FAUCET, LED SINK LIGHTING, AND SOAP
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  SHOWN AND EXTEND CIRCUIT TO FEED THE ADDITIONAL
  RECEPTACLES FOR EACH SINK. MINIMUM WIRE SIZE SHALL BE #12
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- (E9) NEW RECEPTACLE AT EXISTING LOCATION.



KEY PLAN - LEVEL 300

2' 4' 8'





MEP ENGINEERS:



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REVISIONS:

No. Description Date

PENNSYLVANIA
ONVENTION CENTER

DEMOLITION &
NEW FLOOR
PLANS - ROOM X
(SEMINAR)

(SEMINAR)

Project number CW1615

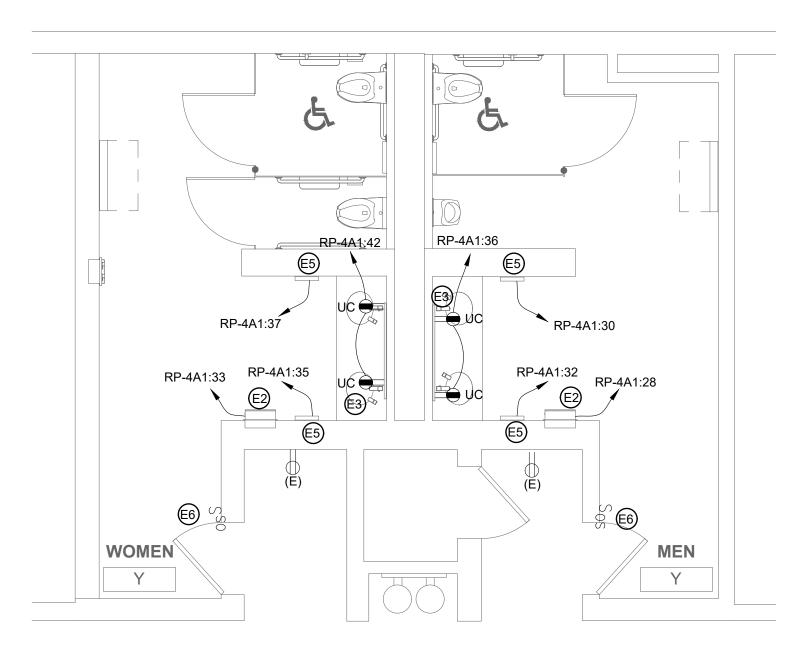
Drawn by RR,AS
Checked by HL

120

1/4" = 1'-0"

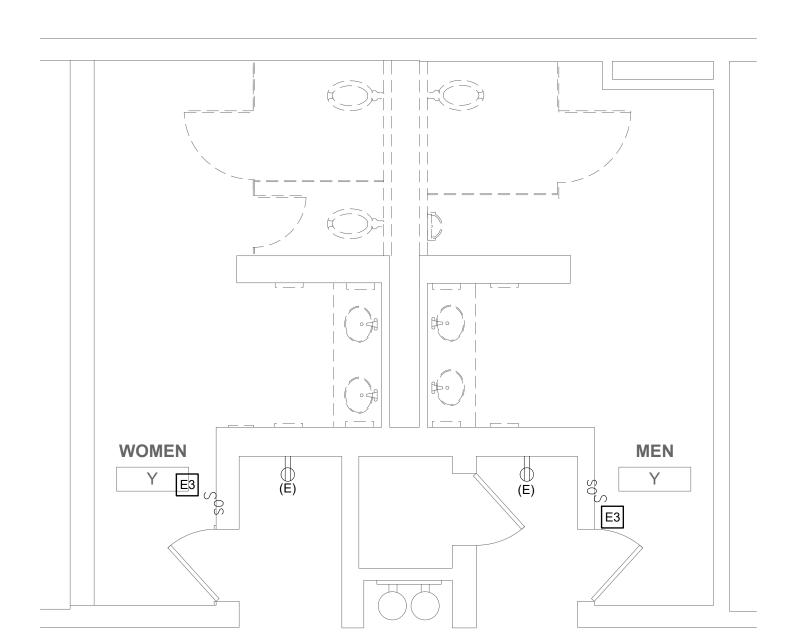
November 25, 2019

Scale



FLOOR PLAN - MEN'S & WOMEN'S ROOM Y

E121 SCALE: 1/4" = 1'-0"



DEMO PLAN - MEN'S & WOMEN'S ROOM Y

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

#### **GENERAL DEMOLITION NOTES**

- 1. SEE DRAWING E001 FOR GENERAL NOTES, SYMBOLS, AND ABBREVIATIONS.
- 2. PRIOR TO THE START OF WORK, EC SHALL LOCATE ALL LIGHTING AND POWER PANEL SUPPLY CIRCUITS FOR THE WORK AREA AND RECORD PANEL AND CIRCUIT NUMBER ON RECORD DRAWINGS.
- EC SHALL FIELD INVESTIGATE EXISTING LIGHT FIXTURES TO VERIFY NORMAL AND EMERGENCY FIXTURE VOLTAGES AND ENSURE NEW LIGHTING FIXTURES ARE SELECTED WITH VOLTAGES TO MATCH EXISTING.
- 4. EC SHALL REMOVE AND DISPOSE OF ALL LIGHT FIXTURES WITHIN THE WORK AREA. TAG AND PRESERVE EXISTING LIGHTING CIRCUITS FOR FUTURE RECONNECTION TO NEW LIGHTING FIXTURES.
- 5. FURNISH AND INSTALL JUNCTION BOXES WHERE REQUIRED TO CONTINUE CIRCUITS OUTSIDE OF WORK AREA.
- 6. KEYED NOTES MAY NOT APPEAR ON ALL PLAN VIEWS.

#### **DEMOLITION KEYED NOTES**

E1 NOT USED.

E2 EC SHALL DEMOLISH EXISTING RECEPTACLE/LIGHT SWITCH, BACK BOX, CONDUIT AND WIRE. CAP WIRES ABOVE CEILING FOR SPLICING AND EXTENSION TO NEW LOCATION PER NEW WORK KEYED NOTE

E3 EC SHALL DISCONNECT AND REMOVE THE EXISTING RECEPTACLE/OCCUPANCY SENSOR SWITCH. PRESERVE THE EXISTING CONDUCTORS FOR RECONNECTION TO NEW RECEPTACLE/SWITCHING CONTROLS.

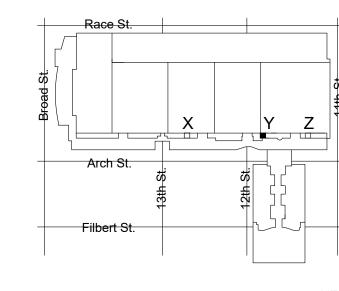
E4 EC SHALL DISCONNECT THE POWER SUPPLY TO THE EXISTING WATER COOLERS TO BE REMOVED. PULL CONDUCTORS BACK TO NEAREST JUNCTION BOX, CUT, REMOVE AND CAP REMAINING CONDUCTORS. MAINTAIN CONTINUITY TO OTHER LOADS ON SAME CIRCUIT. CUT THE CONDUIT AT THE WATER COOLER LOCATION TO BE FLUSH WITH WALL AND CAP THE END. COORDINATE WORK WITH OTHER DISCIPLINES AS REQUIRED.

#### GENERAL NEW WORK NOTES

- SEE DRAWING E001 FOR GENERAL NOTES, SYMBOLS, AND ABBREVIATIONS.
- 2. SEE THE E800 SERIES DRAWINGS FOR PANEL SCHEDULES AND CIRCUITING.
- 3. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE LATEST ADOPTED EDITION OF THE NEC.
- 4. ALL CONDUCTORS SHALL BE CU AND THHN/THWN UNLESS OTHERWISE NOTED.
- IN NO CASE SHALL A 277V, 20A/1P CIRCUIT BE LOADED TO OVER 4.432KW OR A 120V, 20A/1P CIRCUIT BE LOADED TO OVER 1.92KW. MAKE CHANGES AS REQUIRED TO ENSURE COMPLIANT LOADING ON BREAKERS.
- 6. EC TO COORDINATE ALL HVAC AND PLUMBING EQUIPMENT LOCATIONS IN FIELD PRIOR TO CIRCUIT INSTALLATION.
- 7. EC TO TRACE ALL CIRCUITS BACK TO SOURCE AND TAKE LOAD READINGS ON CIRCUITS AND PANELBOARD AS REQUIRED TO VERIFY CODE COMPLIANT LOADING AFTER PROJECT IS COMPLETE. MAKE ADJUSTMENTS AS REQUIRED. EC TO RELABEL ALL CIRCUIT DIRECTORIES FOR NEW CONFIGURATION AS REQUIRED AND PROVIDE AS-BUILTS TO CLIENT.
- 8. EC SHALL ENSURE THAT ANY EXPOSED CONDUIT INSTALLED IN FINISHED SPACES FROM THE ELECTRICAL PANEL TO THE RESTROOM IS PAINTED WITH ONE COAT PRIMER AND TWO COATS OF PAINT TO MATCH THE EXISTING SURFACE FINISH. THERE SHALL BE NO EXPOSED CONDUIT WITHIN THE RESTROOM AREAS.
- 9. KEYED NOTES MAY NOT APPEAR ON ALL PLAN VIEWS.
- 10. SEE DRAWINGS E002-E004 FOR ELECTRICAL PANEL LOCATIONS.
- 11. ALL NEW RECEPTACLE LOCATION MOUNTING HEIGHTS TO MATCH EXISTING IN SAME ROOM.

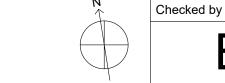
#### **NEW WORK KEYED NOTES**

- E1 EC SHALL FURNISH AND INSTALL CONDUCTORS, RACEWAY, AND DOUBLE GANG BOX WITH (1) NEMA 5-20R DUPLEX RECEPTACLE TO POWER THE CORD AND PLUG CONNECTED ELECTRIC WATER COOLER HYDROBOOST SYSTEM AND (1) 20A MOTOR RATED TOGGLE SWITCH FOR HARDWIRE CONNECTION TO THE COOLING UNIT. FURNISH AND INSTALL (2)#12 AWG CU & (1) #12 CU GND, MC CABLE AND PROVIDE POWER FROM THE MOTOR RATED TOGGLE SWITCH TO THE ELECTRIC WATER COOLER COOLING UNIT. MOUNT RECEPTACLE AND TOGGLE SWITCH WITHIN SPACE BEHIND ELECTRIC WATER COOLER ACCESS PANEL COVER. COORDINATE WORK WITH ELECTRIC WATER COOLER INSTALLER.
- EC SHALL FURNISH AND INSTALL CONDUCTORS AND RACEWAY TO THE NEW AUTOMATIC PAPER TOWEL EQUIPMENT. PROVIDE ADDITIONAL WIRING AND SPLICES AS REQUIRED TO MAKE CONNECTIONS TO MULTIPLE AUTOMATIC PAPER TOWEL DEVICES. MINIMUM WIRE SIZE SHALL BE #12 AWG CU. COORDINATE WORK WITH PAPER TOWEL EQUIPMENT INSTALLER.
- E3 EC SHALL FURNISH AND INSTALL GFCI RECEPTACLES UNDERNEATH THE SINK COUNTERTOP TO SUPPLY POWER TO NEW AUTOMATIC FAUCET, LED SINK LIGHTING, AND SOAP DISPENSERS.PROVIDE POWER FROM THE NEW 120V CIRCUIT SHOWN AND EXTEND CIRCUIT TO FEED THE ADDITIONAL RECEPTACLES FOR EACH SINK. MINIMUM WIRE SIZE SHALL BE #12 AWG CU. COORDINATE WORK WITH INSTALLATION OF SINK EQUIPMENT.
- EG SHALL FURNISH AND INSTALL RECEPTACLE AT THE LOCATION SHOWN. PROVIDE SPLICES AND NEW WIRING TO EXTEND CIRCUIT AS REQUIRED.
- E5 EC SHALL FURNISH AND INSTALL NEW CONDUCTOR AND RACEWAY TO THE NEW WALL MOUNTED HAND DRYER EQUIPMENT.
- EC SHALL FURNISH AND INSTALL NEW 24V OCCUPANCY SENSOR WALL SWITCH AND 20A, 120/277V POWER PACK TO COORDINATE WITH CEILING MOUNTED LIGHTING CONTROLS. PROVIDE SPLICES AND NEW WIRING TO EXTEND CIRCUIT AS REQUIRED TO THE POWER PACK. REFER TO DETAIL 3/E701 FOR LOW VOLTAGE OCCUPANCY SENSOR WIRING DIAGRAM.
- E7 EC SHALL FURNISH AND INSTALL GFCI RECEPTACLE AND NEW WIRING AND MAKE CONNECTIONS TO EXISTING RECEPTACLE IN ADJACENT ROOM.
- ES SHALL FURNISH AND INSTALL NEW WIRING AND CONDUIT TO EDGELIT MIRRORS. COORDINATE 120V POWER SUPPLY WITH 120V POWER PACK AND CEILING LIGHTING CONTROLS AS SHOWN IN DETAIL 4/E701.
- (E9) NEW RECEPTACLE AT EXISTING LOCATION.



KEY PLAN - LEVEL 300

0 2' 4' 8'



CONVERSE
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331 MONTGOMERY AVE
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**MEP ENGINEERS:** 



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CSA GROUP

Contact: Wing Au

e-mail: wau@csagroup.com



REVISIONS:

No. Description Date

CENTER

PENNSYLV

RESTROOM RENOVATIO

DEMOLITION &
NEW FLOOR
PLANS - ROOM Y
(SEMINAR)

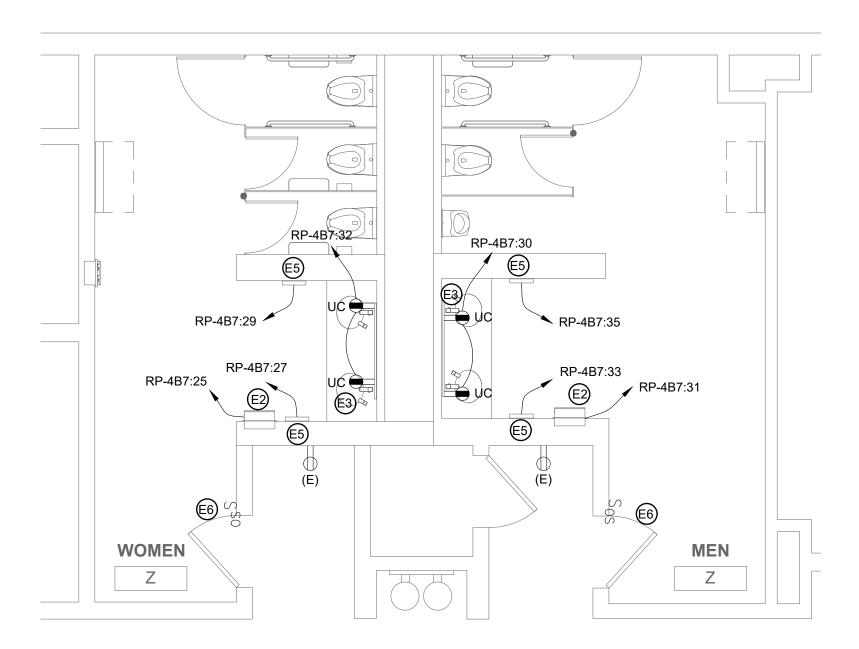
Project number CW1615

Date November 25, 2019

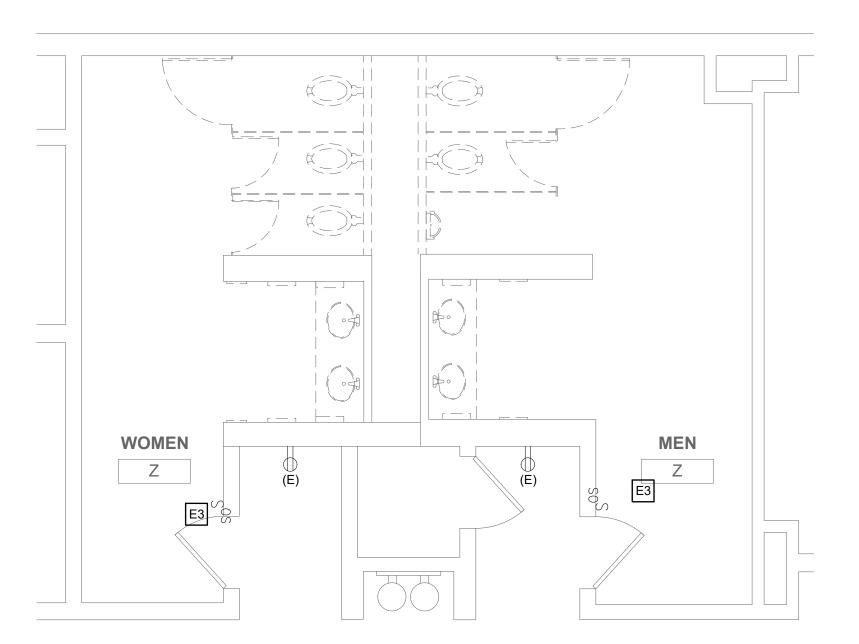
Drawn by RR,AS

E121

Scale 1/4" = 1'-0"



FLOOR PLAN - MEN'S & WOMEN'S ROOM Z



1 DEMO PLAN - MEN'S & WOMEN'S ROOM Z E122 SCALE: 1/4" = 1'-0"

#### GENERAL DEMOLITION NOTES

- 1. SEE DRAWING E001 FOR GENERAL NOTES, SYMBOLS, AND ABBREVIATIONS.
- 2. PRIOR TO THE START OF WORK, EC SHALL LOCATE ALL LIGHTING AND POWER PANEL SUPPLY CIRCUITS FOR THE WORK AREA AND RECORD PANEL AND CIRCUIT NUMBER ON RECORD DRAWINGS.
- 3. EC SHALL FIELD INVESTIGATE EXISTING LIGHT FIXTURES TO VERIFY NORMAL AND EMERGENCY FIXTURE VOLTAGES AND ENSURE NEW LIGHTING FIXTURES ARE SELECTED WITH VOLTAGES TO MATCH EXISTING.
- 4. EC SHALL REMOVE AND DISPOSE OF ALL LIGHT FIXTURES WITHIN THE WORK AREA. TAG AND PRESERVE EXISTING LIGHTING CIRCUITS FOR FUTURE RECONNECTION TO NEW LIGHTING FIXTURES.
- 5. FURNISH AND INSTALL JUNCTION BOXES WHERE REQUIRED TO CONTINUE CIRCUITS OUTSIDE OF WORK AREA.
- 6. KEYED NOTES MAY NOT APPEAR ON ALL PLAN VIEWS.

#### **DEMOLITION KEYED NOTES**

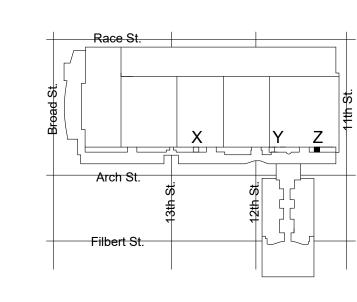
- E1 NOT USED.
- E2 EC SHALL DEMOLISH EXISTING RECEPTACLE/LIGHT SWITCH, BACK BOX, CONDUIT AND WIRE. CAP WIRES ABOVE CEILING FOR SPLICING AND EXTENSION TO NEW LOCATION PER NEW WORK KEYED NOTE
- E3 EC SHALL DISCONNECT AND REMOVE THE EXISTING RECEPTACLE/OCCUPANCY SENSOR SWITCH. PRESERVE THE EXISTING CONDUCTORS FOR RECONNECTION TO NEW RECEPTACLE/SWITCHING CONTROLS.
- E4 EC SHALL DISCONNECT THE POWER SUPPLY TO THE EXISTING WATER COOLERS TO BE REMOVED. PULL CONDUCTORS BACK TO NEAREST JUNCTION BOX. CUT. REMOVE AND CAP REMAINING CONDUCTORS. MAINTAIN CONTINUITY TO OTHER LOADS ON SAME CIRCUIT. CUT THE CONDUIT AT THE WATER COOLER LOCATION TO BE FLUSH WITH WALL AND CAP THE END. COORDINATE WORK WITH OTHER DISCIPLINES AS REQUIRED.

#### **GENERAL NEW WORK NOTES**

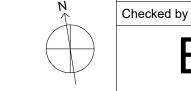
- 1. SEE DRAWING E001 FOR GENERAL NOTES, SYMBOLS, AND ABBREVIATIONS.
- 2. SEE THE E800 SERIES DRAWINGS FOR PANEL SCHEDULES AND CIRCUITING.
- 3. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE LATEST ADOPTED EDITION OF THE NEC.
- 4. ALL CONDUCTORS SHALL BE CU AND THHN/THWN UNLESS OTHERWISE NOTED.
- 5. IN NO CASE SHALL A 277V, 20A/1P CIRCUIT BE LOADED TO OVER 4.432KW OR A 120V, 20A/1P CIRCUIT BE LOADED TO OVER 1.92KW. MAKE CHANGES AS REQUIRED TO ENSURE COMPLIANT LOADING ON
- 6. EC TO COORDINATE ALL HVAC AND PLUMBING EQUIPMENT LOCATIONS IN FIELD PRIOR TO CIRCUIT INSTALLATION.
- EC TO TRACE ALL CIRCUITS BACK TO SOURCE AND TAKE LOAD READINGS ON CIRCUITS AND PANELBOARD AS REQUIRED TO VERIFY CODE COMPLIANT LOADING AFTER PROJECT IS COMPLETE. MAKE ADJUSTMENTS AS REQUIRED. EC TO RELABEL ALL CIRCUIT DIRECTORIES FOR NEW CONFIGURATION AS REQUIRED AND PROVIDE AS-BUILTS TO CLIENT.
- 8. EC SHALL ENSURE THAT ANY EXPOSED CONDUIT INSTALLED IN FINISHED SPACES FROM THE ELECTRICAL PANEL TO THE RESTROOM IS PAINTED WITH ONE COAT PRIMER AND TWO COATS OF PAINT TO MATCH THE EXISTING SURFACE FINISH. THERE SHALL BE NO EXPOSED CONDUIT WITHIN THE RESTROOM AREAS.
- 9. KEYED NOTES MAY NOT APPEAR ON ALL PLAN VIEWS.
- 10. SEE DRAWINGS E002-E004 FOR ELECTRICAL PANEL LOCATIONS.
- 11. ALL NEW RECEPTACLE LOCATION MOUNTING HEIGHTS TO MATCH EXISTING IN SAME ROOM.

#### **NEW WORK KEYED NOTES**

- E1 EC SHALL FURNISH AND INSTALL CONDUCTORS, RACEWAY, AND DOUBLE GANG BOX WITH (1) NEMA 5-20R DUPLEX RECEPTACLE TO POWER THE CORD AND PLUG CONNECTED ELECTRIC WATER COOLER HYDROBOOST SYSTEM AND (1) 20A MOTOR RATED TOGGLE SWITCH FOR HARDWIRE CONNECTION TO THE COOLING UNIT. FURNISH AND INSTALL (2)#12 AWG CU & (1) #12 CU GND, MC CABLE AND PROVIDE POWER FROM THE MOTOR RATED TOGGLE SWITCH TO THE ELECTRIC WATER COOLER COOLING UNIT. MOUNT RECEPTACLE AND TOGGLE SWITCH WITHIN SPACE BEHIND ELECTRIC WATER COOLER ACCESS PANEL COVER. COORDINATE WORK WITH ELECTRIC WATER COOLER INSTALLER.
- E2 EC SHALL FURNISH AND INSTALL CONDUCTORS AND RACEWAY TO THE NEW AUTOMATIC PAPER TOWEL EQUIPMENT. PROVIDE ADDITIONAL WIRING AND SPLICES AS REQUIRED TO MAKE CONNECTIONS TO MULTIPLE AUTOMATIC PAPER TOWEL DEVICES. MINIMUM WIRE SIZE SHALL BE #12 AWG CU. COORDINATE WORK WITH PAPER TOWEL EQUIPMENT INSTALLER.
- E3 EC SHALL FURNISH AND INSTALL GFCI RECEPTACLES UNDERNEATH THE SINK COUNTERTOP TO SUPPLY POWER TO NEW AUTOMATIC FAUCET, LED SINK LIGHTING, AND SOAP DISPENSERS.PROVIDE POWER FROM THE NEW 120V CIRCUIT SHOWN AND EXTEND CIRCUIT TO FEED THE ADDITIONAL RECEPTACLES FOR EACH SINK. MINIMUM WIRE SIZE SHALL BE #12 AWG CU. COORDINATE WORK WITH INSTALLATION OF SINK EQUIPMENT.
- E4 EC SHALL FURNISH AND INSTALL RECEPTACLE AT THE LOCATION SHOWN. PROVIDE SPLICES AND NEW WIRING TO EXTEND CIRCUIT AS REQUIRED.
- E5 EC SHALL FURNISH AND INSTALL NEW CONDUCTOR AND RACEWAY TO THE NEW WALL MOUNTED HAND DRYER EQUIPMENT.
- E6 EC SHALL FURNISH AND INSTALL NEW 24V OCCUPANCY SENSOR WALL SWITCH AND 20A, 120/277V POWER PACK TO COORDINATE WITH CEILING MOUNTED LIGHTING CONTROLS. PROVIDE SPLICES AND NEW WIRING TO EXTEND CIRCUIT AS REQUIRED TO THE POWER PACK. REFER TO DETAIL 3/E701 FOR LOW VOLTAGE OCCUPANCY SENSOR WIRING DIAGRAM.
- EC SHALL FURNISH AND INSTALL GFCI RECEPTACLE AND NEW WIRING AND MAKE CONNECTIONS TO EXISTING RECEPTACLE IN ADJACENT ROOM.
- E8 EC SHALL FURNISH AND INSTALL NEW WIRING AND CONDUIT TO EDGELIT MIRRORS. COORDINATE 120V POWER SUPPLY WITH 120V POWER PACK AND CEILING LIGHTING CONTROLS AS SHOWN IN DETAIL 4/E701.
- (E9) NEW RECEPTACLE AT EXISTING LOCATION.



KEY PLAN - LEVEL 300



CONVERSE WINKLER ARCHITECTURE 331 MONTGOMERY AVE BALA CYNWYD, PA 19144

**MEP ENGINEERS:** 



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Contact: Wing Au e-mail: wau@csagroup.com



REVISIONS: Description Date

PENNSYLV

**DEMOLITION & NEW FLOOR** PLANS - ROOM Z (SEMINAR)

CW1615 Project number November 25, 2019 RR,AS Drawn by

- 1. SEE DRAWING E001 FOR GENERAL NOTES, SYMBOLS, AND ABBREVIATIONS.
- 2. PRIOR TO THE START OF WORK, EC SHALL LOCATE ALL LIGHTING AND POWER PANEL SUPPLY CIRCUITS FOR THE WORK AREA AND RECORD PANEL AND CIRCUIT NUMBER ON RECORD DRAWINGS.
- 3. EC SHALL FIELD INVESTIGATE EXISTING LIGHT FIXTURES TO VERIFY NORMAL AND EMERGENCY FIXTURE VOLTAGES AND ENSURE NEW LIGHTING FIXTURES ARE SELECTED WITH VOLTAGES TO MATCH EXISTING.
- 4. EC SHALL REMOVE AND DISPOSE OF ALL LIGHT FIXTURES WITHIN THE WORK AREA. TAG AND PRESERVE EXISTING LIGHTING CIRCUITS FOR FUTURE RECONNECTION TO NEW LIGHTING FIXTURES.
- 5. FURNISH AND INSTALL JUNCTION BOXES WHERE REQUIRED TO CONTINUE CIRCUITS OUTSIDE OF WORK AREA.
- 6. KEYED NOTES MAY NOT APPEAR ON ALL PLAN VIEWS.

#### **DEMOLITION KEYED NOTES**

E1 NOT USED.

EC SHALL DEMOLISH EXISTING RECEPTACLE/LIGHT SWITCH, BACK BOX, CONDUIT AND WIRE. CAP WIRES ABOVE CEILING FOR SPLICING AND EXTENSION TO NEW LOCATION PER NEW WORK KEYED NOTE

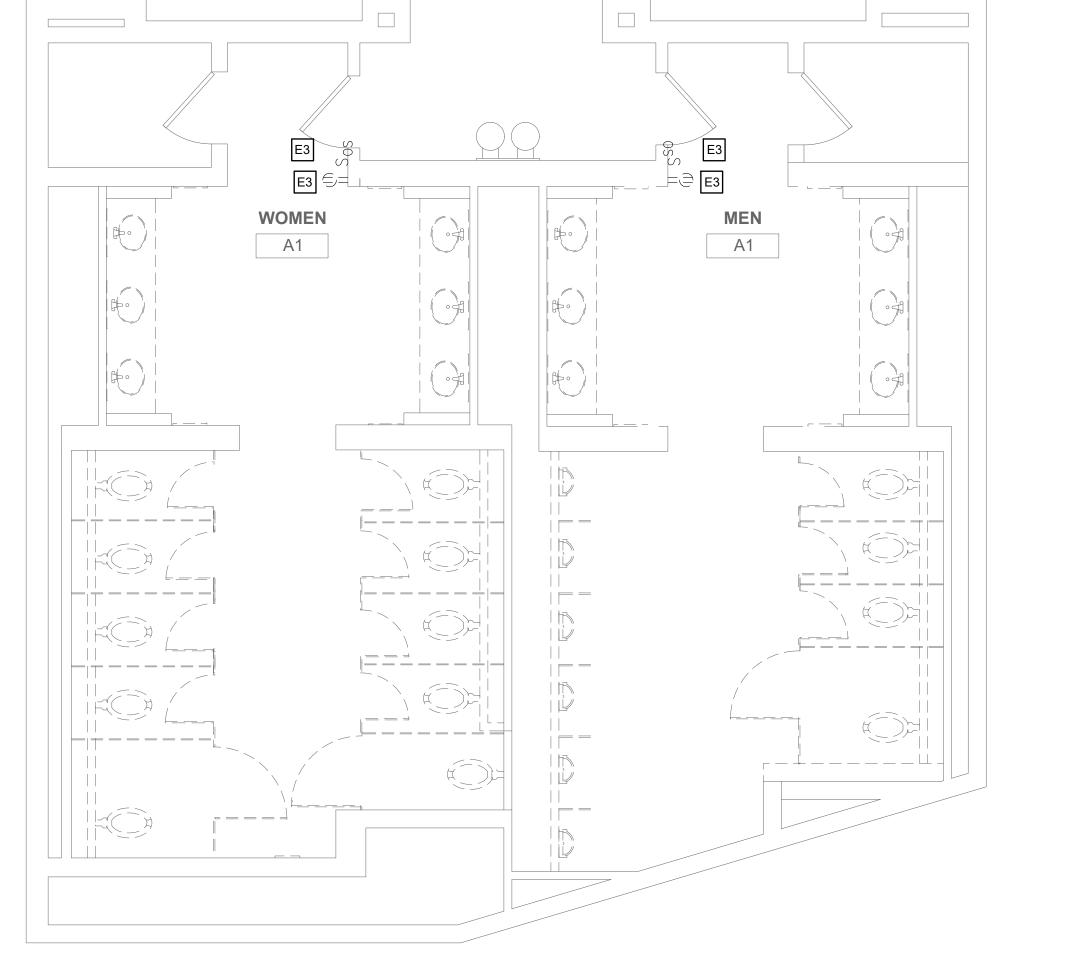
EC SHALL DISCONNECT AND REMOVE THE EXISTING RECEPTACLE/OCCUPANCY SENSOR SWITCH, PRESERVE THE EXISTING CONDUCTORS FOR RECONNECTION TO NEW RECEPTACLE/SWITCHING CONTROLS.

EC SHALL DISCONNECT THE POWER SUPPLY TO THE EXISTING WATER COOLERS TO BE REMOVED. PULL CONDUCTORS BACK TO NEAREST JUNCTION BOX. CUT. REMOVE AND CAP REMAINING

CONDUCTORS. MAINTAIN CONTINUITY TO OTHER LOADS ON SAME CIRCUIT. CUT THE CONDUIT AT THE WATER COOLER LOCATION TO BE FLUSH WITH WALL AND CAP THE END. COORDINATE WORK WITH OTHER DISCIPLINES AS REQUIRED.

#### RP-5C4:33 RP-5C4:39 RP-5C6:41 £3) WOMEN RP-5C4:30 A1 RP-5C6:12 🔦 RP-5C4:30 🗸 **E8** ( RP-5C6:39 RP-5C6:37 RP-5C4:35 RP-5C4:37

FLOOR PLAN - MEN'S & WOMEN'S ROOM A1 E123 SCALE: 1/4" = 1'-0"



1 DEMO PLAN - MEN'S & WOMEN'S ROOM A1

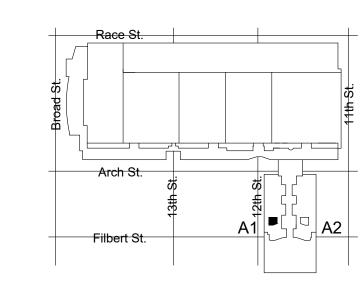
#### E123 SCALE: 1/4" = 1'-0"

#### **GENERAL NEW WORK NOTES**

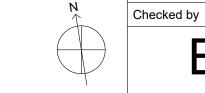
- 1. SEE DRAWING E001 FOR GENERAL NOTES, SYMBOLS, AND ABBREVIATIONS.
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- 5. IN NO CASE SHALL A 277V, 20A/1P CIRCUIT BE LOADED TO OVER 4.432KW OR A 120V, 20A/1P CIRCUIT BE LOADED TO OVER 1.92KW. MAKE CHANGES AS REQUIRED TO ENSURE COMPLIANT LOADING ON
- 6. EC TO COORDINATE ALL HVAC AND PLUMBING EQUIPMENT LOCATIONS IN FIELD PRIOR TO CIRCUIT INSTALLATION.
- 7. EC TO TRACE ALL CIRCUITS BACK TO SOURCE AND TAKE LOAD READINGS ON CIRCUITS AND PANELBOARD AS REQUIRED TO VERIFY CODE COMPLIANT LOADING AFTER PROJECT IS COMPLETE. MAKE ADJUSTMENTS AS REQUIRED. EC TO RELABEL ALL CIRCUIT DIRECTORIES FOR NEW CONFIGURATION AS REQUIRED AND PROVIDE AS-BUILTS TO CLIENT.
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- 9. KEYED NOTES MAY NOT APPEAR ON ALL PLAN VIEWS.
- 10. SEE DRAWINGS E002-E004 FOR ELECTRICAL PANEL LOCATIONS.
- 11. ALL NEW RECEPTACLE LOCATION MOUNTING HEIGHTS TO MATCH EXISTING IN SAME ROOM.

#### **NEW WORK KEYED NOTES**

- E1 EC SHALL FURNISH AND INSTALL CONDUCTORS, RACEWAY, AND DOUBLE GANG BOX WITH (1) NEMA 5-20R DUPLEX RECEPTACLE TO POWER THE CORD AND PLUG CONNECTED ELECTRIC WATER COOLER HYDROBOOST SYSTEM AND (1) 20A MOTOR RATED TOGGLE SWITCH FOR HARDWIRE CONNECTION TO THE COOLING UNIT. FURNISH AND INSTALL (2)#12 AWG CU & (1) #12 CU GND, MC CABLE AND PROVIDE POWER FROM THE MOTOR RATED TOGGLE SWITCH TO THE ELECTRIC WATER COOLER COOLING UNIT. MOUNT RECEPTACLE AND TOGGLE SWITCH WITHIN SPACE BEHIND ELECTRIC WATER COOLER ACCESS PANEL COVER. COORDINATE WORK WITH ELECTRIC WATER COOLER INSTALLER.
- (E2) EC SHALL FURNISH AND INSTALL CONDUCTORS AND RACEWAY TO THE NEW AUTOMATIC PAPER TOWEL EQUIPMENT. PROVIDE ADDITIONAL WIRING AND SPLICES AS REQUIRED TO MAKE CONNECTIONS TO MULTIPLE AUTOMATIC PAPER TOWEL DEVICES. MINIMUM WIRE SIZE SHALL BE #12 AWG CU. COORDINATE WORK WITH PAPER TOWEL EQUIPMENT INSTALLER.
- (E3) EC SHALL FURNISH AND INSTALL GFCI RECEPTACLES UNDERNEATH THE SINK COUNTERTOP TO SUPPLY POWER TO NEW AUTOMATIC FAUCET, LED SINK LIGHTING, AND SOAP DISPENSERS.PROVIDE POWER FROM THE NEW 120V CIRCUIT SHOWN AND EXTEND CIRCUIT TO FEED THE ADDITIONAL RECEPTACLES FOR EACH SINK. MINIMUM WIRE SIZE SHALL BE #12 AWG CU. COORDINATE WORK WITH INSTALLATION OF SINK
- E4 EC SHALL FURNISH AND INSTALL RECEPTACLE AT THE LOCATION SHOWN. PROVIDE SPLICES AND NEW WIRING TO EXTEND CIRCUIT AS REQUIRED.
- E5 EC SHALL FURNISH AND INSTALL NEW CONDUCTOR AND RACEWAY TO THE NEW WALL MOUNTED HAND DRYER EQUIPMENT.
- E6 EC SHALL FURNISH AND INSTALL NEW 24V OCCUPANCY SENSOR WALL SWITCH AND 20A, 120/277V POWER PACK TO COORDINATE WITH CEILING MOUNTED LIGHTING CONTROLS. PROVIDE SPLICES AND NEW WIRING TO EXTEND CIRCUIT AS REQUIRED TO THE POWER PACK. REFER TO DETAIL 3/E701 FOR LOW VOLTAGE OCCUPANCY SENSOR WIRING DIAGRAM.
- E7 EC SHALL FURNISH AND INSTALL GFCI RECEPTACLE AND NEW WIRING AND MAKE CONNECTIONS TO EXISTING RECEPTACLE IN ADJACENT ROOM.
- E8 EC SHALL FURNISH AND INSTALL NEW WIRING AND CONDUIT TO EDGELIT MIRRORS. COORDINATE 120V POWER SUPPLY WITH 120V POWER PACK AND CEILING LIGHTING CONTROLS AS SHOWN IN DETAIL 4/E701.
- (E9) NEW RECEPTACLE AT EXISTING LOCATION.



KEY PLAN - BALLROOM LEVEL



Date

CONVERSE

WINKLER

**MEP ENGINEERS:** 

Contact: Kevin Sultanik

CSA GROUP

Ph: 215.427.8700

Fax: 215.427.8752

Contact: Wing Au

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PHILADELPHIA, PA 19125

e-mail: wau@csagroup.com

RYAN M. ROGALA

Description

REVISIONS:

**DEMOLITION & NEW FLOOR PLANS - ROOM** 

A1 (BALLROOM)

PENNSYLV CONVENTION

CW1615 Project number November 25, 2019 RR,AS Drawn by

- 1. SEE DRAWING E001 FOR GENERAL NOTES, SYMBOLS, AND
- 2. PRIOR TO THE START OF WORK, EC SHALL LOCATE ALL LIGHTING AND POWER PANEL SUPPLY CIRCUITS FOR THE WORK AREA AND RECORD PANEL AND CIRCUIT NUMBER ON RECORD DRAWINGS.
- 3. EC SHALL FIELD INVESTIGATE EXISTING LIGHT FIXTURES TO VERIFY NORMAL AND EMERGENCY FIXTURE VOLTAGES AND ENSURE NEW LIGHTING FIXTURES ARE SELECTED WITH VOLTAGES TO MATCH EXISTING.
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- 5. FURNISH AND INSTALL JUNCTION BOXES WHERE REQUIRED TO CONTINUE CIRCUITS OUTSIDE OF WORK AREA.
- 6. KEYED NOTES MAY NOT APPEAR ON ALL PLAN VIEWS.

#### **DEMOLITION KEYED NOTES**

E1 NOT USED.

E2 EC SHALL DEMOLISH EXISTING RECEPTACLE/LIGHT SWITCH, BACK BOX, CONDUIT AND WIRE. CAP WIRES ABOVE CEILING FOR SPLICING AND EXTENSION TO NEW LOCATION PER NEW WORK KEYED NOTE

E3 EC SHALL DISCONNECT AND REMOVE THE EXISTING RECEPTACLE/OCCUPANCY SENSOR SWITCH. PRESERVE THE EXISTING CONDUCTORS FOR RECONNECTION TO NEW RECEPTACLE/SWITCHING CONTROLS.

E4 EC SHALL DISCONNECT THE POWER SUPPLY TO THE EXISTING WATER COOLERS TO BE REMOVED. PULL CONDUCTORS BACK TO NEAREST JUNCTION BOX, CUT, REMOVE AND CAP REMAINING CONDUCTORS. MAINTAIN CONTINUITY TO OTHER LOADS ON SAME CIRCUIT. CUT THE CONDUIT AT THE WATER COOLER LOCATION TO BE FLUSH WITH WALL AND CAP THE END. COORDINATE WORK WITH OTHER DISCIPLINES AS REQUIRED.

# RP-5C5:27



RP-5C5:12

RP-5C5:32

RP-5C5:18

RP-5C5:28

RP-5C5:32

RP-5C5:14

RP-5C5:09 (E6)

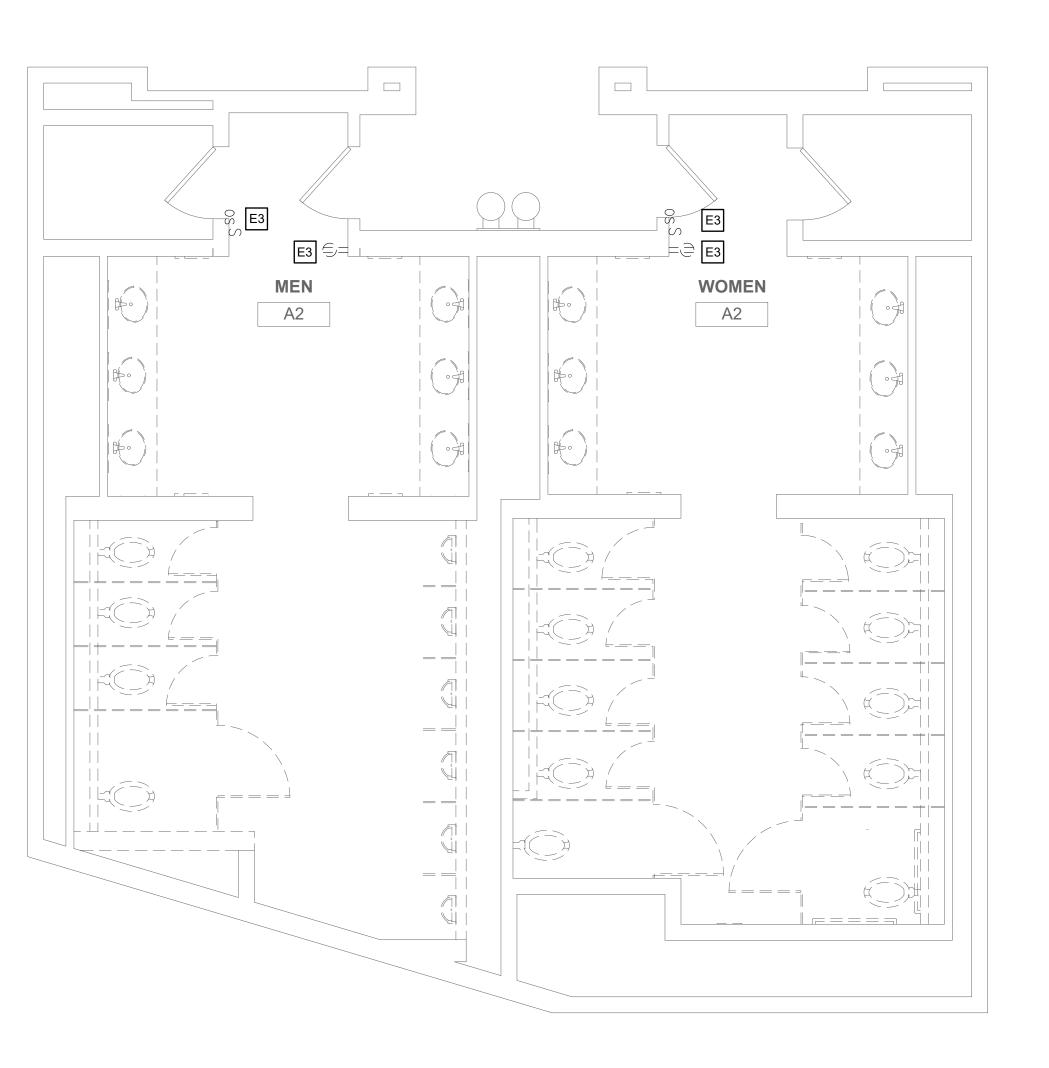
RP-5C5:11

**WOMEN** 

A2

RP-5C5:25

E2



1 DEMO PLAN - MEN'S & WOMEN'S ROOM A2

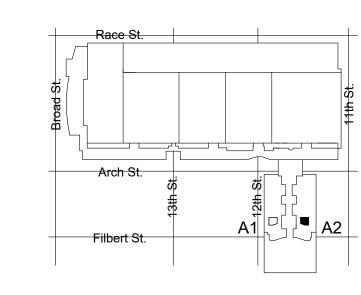
#### E124 SCALE: 1/4" = 1'-0"

#### **GENERAL NEW WORK NOTES**

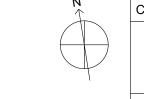
- 1. SEE DRAWING E001 FOR GENERAL NOTES, SYMBOLS, AND ABBREVIATIONS.
- 2. SEE THE E800 SERIES DRAWINGS FOR PANEL SCHEDULES AND CIRCUITING.
- 3. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE LATEST ADOPTED EDITION OF THE NEC.
- 4. ALL CONDUCTORS SHALL BE CU AND THHN/THWN UNLESS OTHERWISE NOTED.
- 5. IN NO CASE SHALL A 277V, 20A/1P CIRCUIT BE LOADED TO OVER 4.432KW OR A 120V, 20A/1P CIRCUIT BE LOADED TO OVER 1.92KW. MAKE CHANGES AS REQUIRED TO ENSURE COMPLIANT LOADING ON
- 6. EC TO COORDINATE ALL HVAC AND PLUMBING EQUIPMENT LOCATIONS IN FIELD PRIOR TO CIRCUIT INSTALLATION.
- EC TO TRACE ALL CIRCUITS BACK TO SOURCE AND TAKE LOAD READINGS ON CIRCUITS AND PANELBOARD AS REQUIRED TO VERIFY CODE COMPLIANT LOADING AFTER PROJECT IS COMPLETE. MAKE ADJUSTMENTS AS REQUIRED. EC TO RELABEL ALL CIRCUIT DIRECTORIES FOR NEW CONFIGURATION AS REQUIRED AND PROVIDE AS-BUILTS TO CLIENT.
- 8. EC SHALL ENSURE THAT ANY EXPOSED CONDUIT INSTALLED IN FINISHED SPACES FROM THE ELECTRICAL PANEL TO THE RESTROOM IS PAINTED WITH ONE COAT PRIMER AND TWO COATS OF PAINT TO MATCH THE EXISTING SURFACE FINISH, THERE SHALL BE NO EXPOSED CONDUIT WITHIN THE RESTROOM AREAS.
- 9. KEYED NOTES MAY NOT APPEAR ON ALL PLAN VIEWS.
- 10. SEE DRAWINGS E002-E004 FOR ELECTRICAL PANEL LOCATIONS.
- 11. ALL NEW RECEPTACLE LOCATION MOUNTING HEIGHTS TO MATCH EXISTING IN SAME ROOM.

#### **NEW WORK KEYED NOTES**

- E1 EC SHALL FURNISH AND INSTALL CONDUCTORS, RACEWAY, AND DOUBLE GANG BOX WITH (1) NEMA 5-20R DUPLEX RECEPTACLE TO POWER THE CORD AND PLUG CONNECTED ELECTRIC WATER COOLER HYDROBOOST SYSTEM AND (1) 20A MOTOR RATED TOGGLE SWITCH FOR HARDWIRE CONNECTION TO THE COOLING UNIT. FURNISH AND INSTALL (2)#12 AWG CU & (1) #12 CU GND, MC CABLE AND PROVIDE POWER FROM THE MOTOR RATED TOGGLE SWITCH TO THE ELECTRIC WATER COOLER COOLING UNIT. MOUNT RECEPTACLE AND TOGGLE SWITCH WITHIN SPACE BEHIND ELECTRIC WATER COOLER ACCESS PANEL COVER. COORDINATE WORK WITH ELECTRIC WATER COOLER INSTALLER.
- (E2) EC SHALL FURNISH AND INSTALL CONDUCTORS AND RACEWAY TO THE NEW AUTOMATIC PAPER TOWEL EQUIPMENT. PROVIDE ADDITIONAL WIRING AND SPLICES AS REQUIRED TO MAKE CONNECTIONS TO MULTIPLE AUTOMATIC PAPER TOWEL DEVICES. MINIMUM WIRE SIZE SHALL BE #12 AWG CU. COORDINATE WORK WITH PAPER TOWEL EQUIPMENT INSTALLER.
- (E3) EC SHALL FURNISH AND INSTALL GFCI RECEPTACLES UNDERNEATH THE SINK COUNTERTOP TO SUPPLY POWER TO NEW AUTOMATIC FAUCET, LED SINK LIGHTING, AND SOAP DISPENSERS.PROVIDE POWER FROM THE NEW 120V CIRCUIT SHOWN AND EXTEND CIRCUIT TO FEED THE ADDITIONAL RECEPTACLES FOR EACH SINK. MINIMUM WIRE SIZE SHALL BE #12 AWG CU. COORDINATE WORK WITH INSTALLATION OF SINK EQUIPMENT.
- E4 EC SHALL FURNISH AND INSTALL RECEPTACLE AT THE LOCATION SHOWN. PROVIDE SPLICES AND NEW WIRING TO EXTEND CIRCUIT AS REQUIRED.
- E5 EC SHALL FURNISH AND INSTALL NEW CONDUCTOR AND RACEWAY TO THE NEW WALL MOUNTED HAND DRYER EQUIPMENT.
- E6 EC SHALL FURNISH AND INSTALL NEW 24V OCCUPANCY SENSOR WALL SWITCH AND 20A, 120/277V POWER PACK TO COORDINATE WITH CEILING MOUNTED LIGHTING CONTROLS. PROVIDE SPLICES AND NEW WIRING TO EXTEND CIRCUIT AS REQUIRED TO THE POWER PACK. REFER TO DETAIL 3/E701 FOR LOW VOLTAGE OCCUPANCY SENSOR WIRING DIAGRAM.
- E7 EC SHALL FURNISH AND INSTALL GFCI RECEPTACLE AND NEW WIRING AND MAKE CONNECTIONS TO EXISTING RECEPTACLE IN ADJACENT ROOM.
- ES EC SHALL FURNISH AND INSTALL NEW WIRING AND CONDUIT TO EDGELIT MIRRORS. COORDINATE 120V POWER SUPPLY WITH 120V POWER PACK AND CEILING LIGHTING CONTROLS AS SHOWN IN
- (E9) NEW RECEPTACLE AT EXISTING LOCATION.



KEY PLAN - BALLROOM LEVEL



**CONVERSE** WINKLER ARCHITECTURE 331 MONTGOMERY AVE BALA CYNWYD, PA 19144

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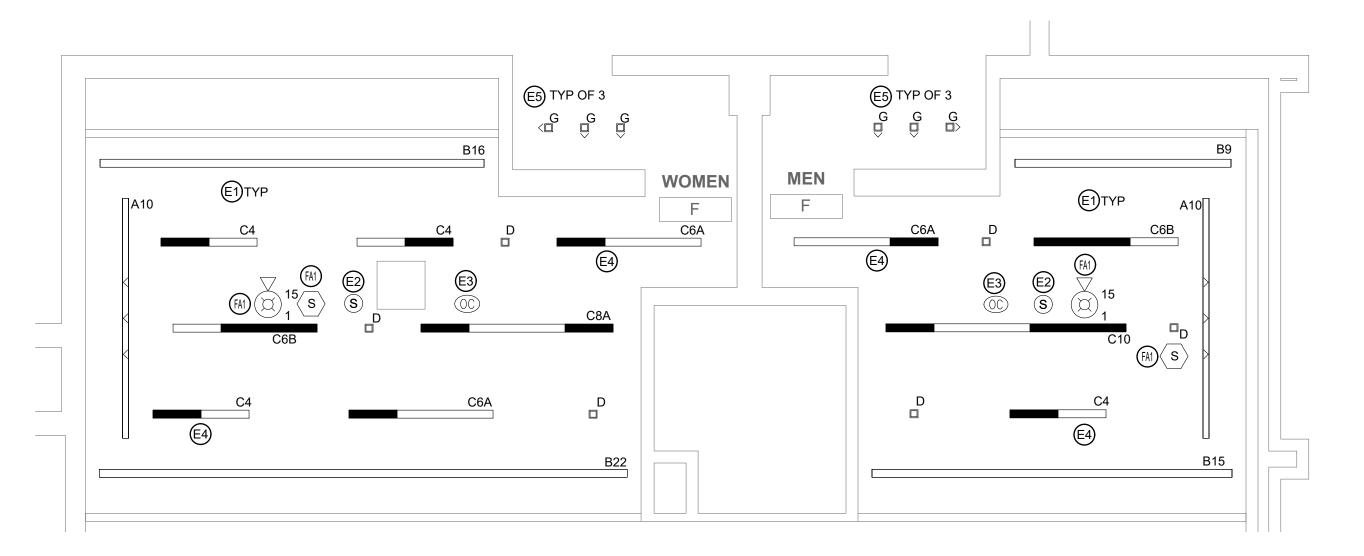
REVISIONS: Description Date

PENNSYLV CONVENTION

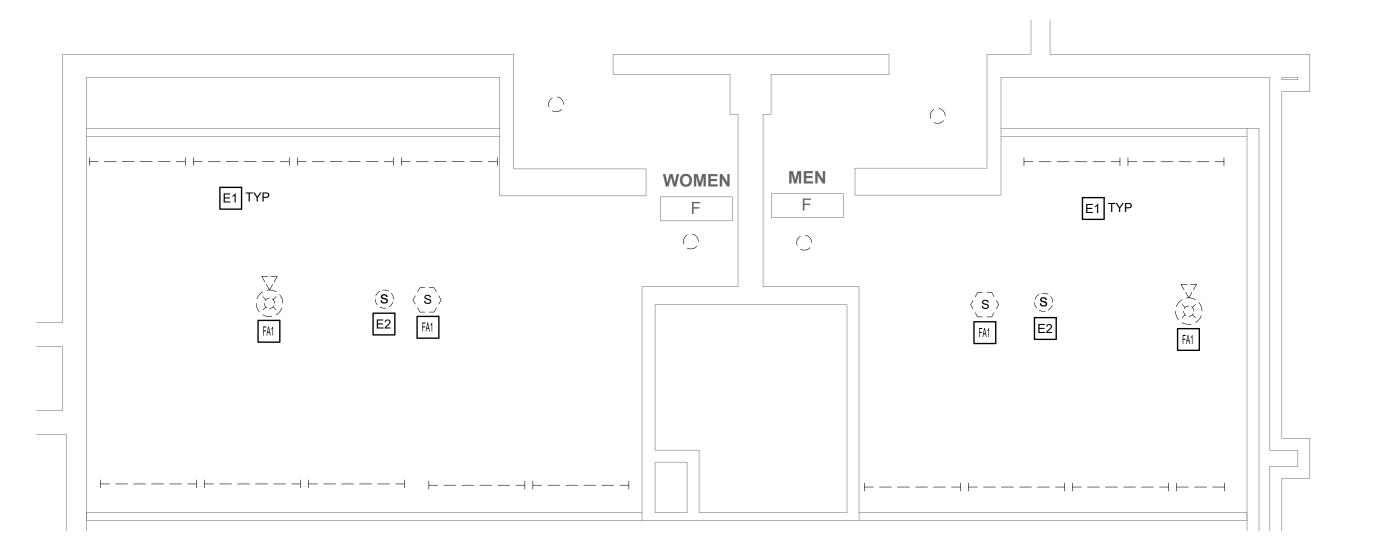
**DEMOLITION & NEW FLOOR PLANS - ROOM** A2 (BALLROOM)

CW1615 Project number November 25, 2019 RR,AS Drawn by

Checked by



#### REFLECTED CEILING PLAN PLAN - MEN'S & WOMEN'S ROOM F



DEMO PLAN - MEN'S & WOMEN'S ROOM F

E602 SCALE: 1/4" = 1'-0"

#### **GENERAL DEMOLITION NOTES**

- 1. SEE DRAWING E001 FOR GENERAL NOTES, SYMBOLS, AND ABBREVIATIONS.
- 2. PRIOR TO THE START OF WORK, EC SHALL LOCATE ALL LIGHTING AND POWER PANEL SUPPLY CIRCUITS FOR THE WORK AREA AND RECORD PANEL AND CIRCUIT NUMBER ON RECORD DRAWINGS.
- EC SHALL FIELD INVESTIGATE EXISTING LIGHT FIXTURES TO VERIFY NORMAL AND EMERGENCY FIXTURE VOLTAGES AND ENSURE NEW LIGHTING FIXTURES ARE SELECTED WITH VOLTAGES TO MATCH EXISTING.
- 4. EC SHALL REMOVE AND DISPOSE OF ALL LIGHT FIXTURES WITHIN THE WORK AREA. TAG AND PRESERVE EXISTING LIGHTING CIRCUITS FOR FUTURE RECONNECTION TO NEW LIGHTING FIXTURES.
- 5. FURNISH AND INSTALL JUNCTION BOXES WHERE REQUIRED TO CONTINUE CIRCUITS OUTSIDE OF WORK AREA.
- 6. KEYED NOTES MAY NOT APPEAR ON ALL PLAN VIEWS.

#### **DEMOLITION KEYED NOTES**

- E1 EC SHALL REMOVE AND DISPOSE OF ALL LIGHT FIXTURES WITHIN THE WORK AREA. PRESERVE EXISTING LIGHTING CIRCUITS FOR FUTURE RECONNECTION TO NEW LIGHTING FIXTURES.
- E2 EC SHALL REMOVE AND DISPOSE OF CEILING-MOUNTED SPEAKERS. EC SHALL DISCONNECT POWER SUPPLY TO SPEAKERS AND PRESERVE FOR NEW SPEAKER INSTALLATION IN NEW LOCATION. REFER TO ARCHITECTURAL REFLECTED CEILING PLAN FOR PROPOSED LAYOUT.
- EC SHALL REMOVE AND DISCONNECT FIRE ALARM DEVICES WITHIN THE DESIGNATED AREA OF WORK TO ACCOMMODATE CEILING REPLACEMENT. SUPPORT EXISTING FIRE ALARM WIRING FOR TERMINATION TO BE REINSTALLED AS INDICATED ON ARCHITECTURAL REFLECTED CEILING PLAN. CIRCUIT CONTINUITY MUST BE MAINTAINED AT ALL TIMES AS NOT TO AFFECT REMAINING DEVICES NOT INCLUDED IN THIS WORK. ALL WIRING SHALL BE TAGGED AS REQUIRED FOR REINSTALLATION OF NEW DEVICES.

#### **GENERAL NEW WORK NOTES**

- 1. SEE DRAWING E001 FOR GENERAL NOTES, SYMBOLS, AND ABBREVIATIONS.
- 2. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE LATEST ADOPTED EDITION OF THE NEC.
- 3. ALL CONDUCTORS SHALL BE CU AND THHN/THWN UNLESS OTHERWISE NOTED.
- IN NO CASE SHALL A 277V, 20A/1P CIRCUIT BE LOADED TO OVER 4.432KW OR A 120V, 20A/1P CIRCUIT BE LOADED TO OVER 1.92KW. MAKE CHANGES AS REQUIRED TO ENSURE COMPLIANT LOADING ON BREAKERS.
- 5. EC TO TRACE ALL CIRCUITS BACK TO SOURCE AND TAKE LOAD READINGS ON CIRCUITS AND PANELBOARD AS REQUIRED TO VERIFY CODE COMPLIANT LOADING AFTER PROJECT IS COMPLETE. MAKE ADJUSTMENTS AS REQUIRED. EC TO RELABEL ALL CIRCUIT DIRECTORIES FOR NEW CONFIGURATION AS REQUIRED AND PROVIDE AS-BUILTS TO CLIENT.
- 6. BASIS OF DESIGN FOR OCCUPANCY SENSORS IS AS FOLLOWS. EC SHALL MAKE ALL NECESSARY WIRING CONNECTIONS PER MANUFACTURER'S RECOMMENDATIONS AND ADJUST FOR MAXIMUM COVERAGE IN THE FIELD. REFER TO OCCUPANCY SENSOR WIRING DIAGRAMS ON DRAWING E701 FOR MORE INFORMATION.

  BASIS OF DESIGN:
- CEILING MOUNTED: HUBBELL OMNIDT200 (360°, 22' RADIUS)
   WALL MOUNTED: HUBBELL CONTROLS: LHMTS1-24V-WH
- 7. KEYED NOTES MAY NOT APPEAR ON ALL PLAN VIEWS.
- 8. SEE DRAWINGS E002-E004 FOR ELECTRICAL PANEL LOCATIONS.

#### **NEW WORK KEYED NOTES**

- EC SHALL FURNISH AND INSTALL ALL NEW LIGHTING AS SHOWN ON THE ARCHITECTURAL DRAWINGS. MAKE CONNECTIONS TO THE EXISTING 277V LIGHTING CIRCUITS PRESERVED DURING DEMOLITION. PROVIDE ADDITIONAL WIRING AND SPLICES AS REQUIRED TO MAKE CONNECTIONS AND COORDINATE WITH LIGHTING CONTROLS AS SHOWN IN DETAIL 3/E701. MINIMUM WIRE SIZE SHALL BE #12 AWG CU.
- E2 EC SHALL CONNECT POWER SUPPLY TO NEW SPEAKERS AND INSTALL AS INDICATED ON ARCHITECTURAL REFLECTED CEILING PLAN. PROVIDE ADDITIONAL WIRING AND SPLICES AS REQUIRED TO MAKE CONNECTIONS. MINIMUM WIRE SIZE SHALL BE #12 AWG CU.
- EC SHALL FURNISH AND INSTALL CEILING MOUNTED OCCUPANCY SENSOR FOR AUTOMATIC LIGHTING CONTROL. PROVIDE SPLICES AND EXTEND EXISTING CIRCUITS AS REQUIRED TO ENSURE THE SENSOR IS COORDINATED WITH THE WALL MOUNTED SWITCH TO MEET THE DESIGN INTENT. MINIMUM WIRE SIZE SHALL BE #12 AWG CU.
- LIGHTING FIXTURE(S) TO PROVIDE EGRESS LIGHTING. EC SHALL FURNISH AND INSTALL GENERATOR TRANSFER DEVICE AND CONNECT THE PRESERVED NORMAL LIGHTING CIRCUIT AND PRESERVED EMERGENCY CIRCUIT TO ENSURE LIGHT IS PROVIDED POWER FROM EMERGENCY CIRCUIT DURING NORMAL POWER OUTAGE. REFER TO DETAIL 6/E701 FOR MORE INFORMATION.
- LIGHTING FIXTURE TO OPERATE AS 'NIGHT LIGHT' FIXTURE AND PROVIDE EGRESS LIGHTING IN THE EVENT OF LOSS OF NORMAL POWER. EC SHALL PROVIDE POWER IN THE SPACE. PROVIDE POWER TO FIXTURE FROM THE EMERGENCY CIRCUIT AT A POINT AHEAD OF ANY SWITCHING. LIGHT TO REMAIN ON AT ALL TIMES.
- EC SHALL REPLACE IN-KIND FIRE ALARM NOTIFICATION APPLIANCE AND INITIATION DEVICES AS INDICATED ON ARCHITECTURAL REFLECTED CEILING PLAN. FURNISH AND INSTALL RECESSED BACKBOX AND CEILING TILE SUPPORT BRACKETS AS NEEDED. PROPERLY EXTEND CIRCUITING AS REQUIRED.



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**REVISIONS:** 

No. Description Date

PENNSYLVANIA VVENTION CENTER

CONVENTION CE

REFLECTED CEILING PLAN -ROOM F (EXHIBIT)

Project number CW1615

Date November 25, 2019

Drawn by RR,AS

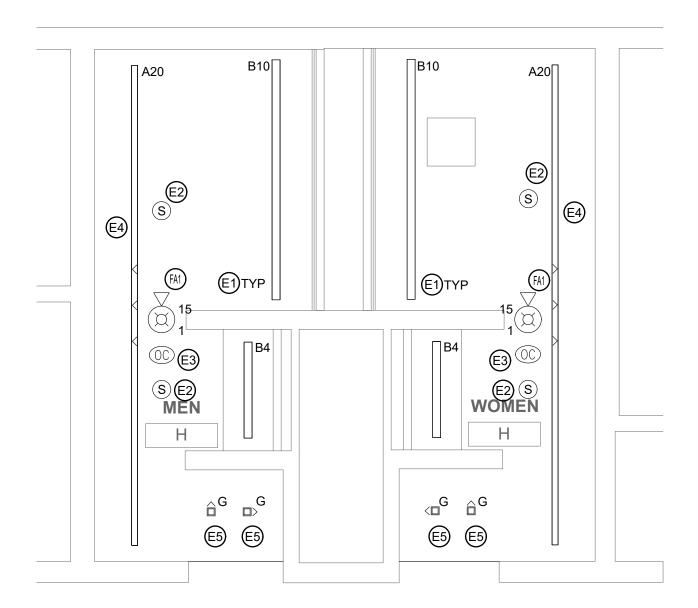
NTS

E602

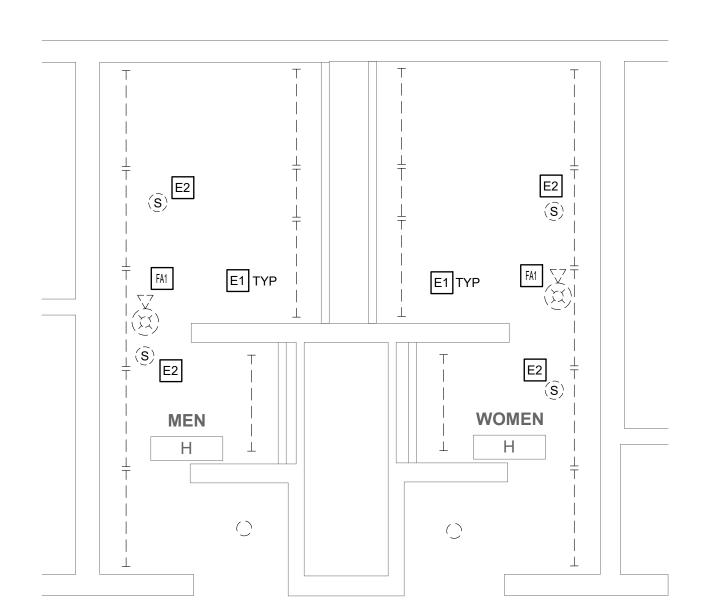
ale 1/4" = 1'-0"

0 2' 4' 8'

KEY PLAN - LEVEL 100

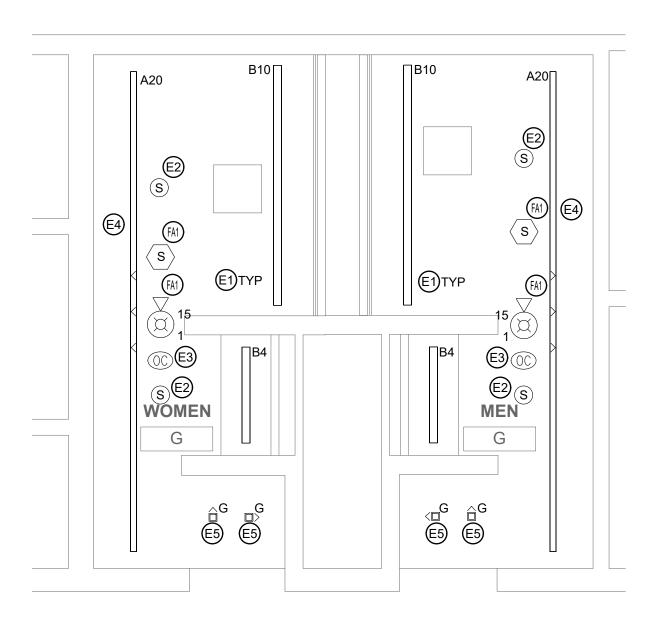


#### 4 REFLECTED CEILING PLAN - MEN'S & WOMEN'S ROOM H E603 SCALE: 1/4" = 1'-0"

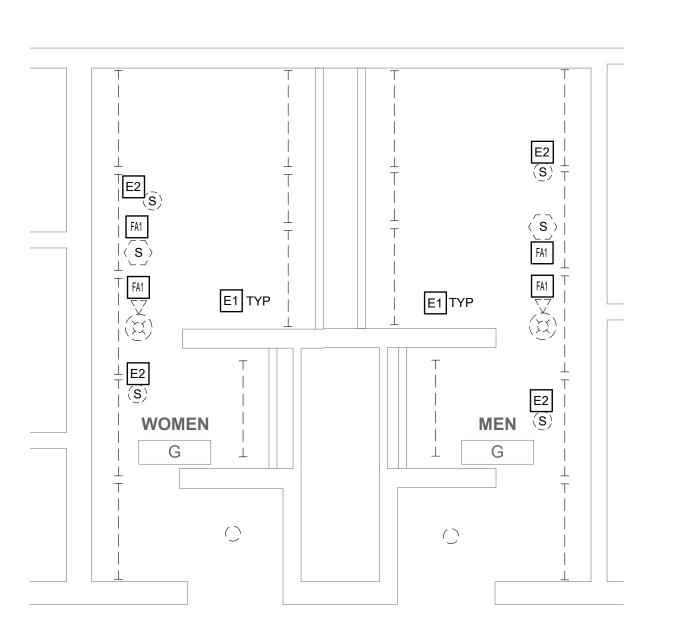


DEMO PLAN - MEN'S & WOMEN'S ROOM H

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



3 REFLECTED CEILING PLAN - MEN'S & WOMEN'S ROOM G
E603 SCALE: 1/4" = 1'-0"



1 DEMO PLAN - MEN'S & WOMEN'S ROOM G
E603 SCALE: 1/4" = 1'-0"

#### **GENERAL DEMOLITION NOTES**

- 1. SEE DRAWING E001 FOR GENERAL NOTES, SYMBOLS, AND ABBREVIATIONS.
- 2. PRIOR TO THE START OF WORK, EC SHALL LOCATE ALL LIGHTING AND POWER PANEL SUPPLY CIRCUITS FOR THE WORK AREA AND RECORD PANEL AND CIRCUIT NUMBER ON RECORD DRAWINGS.
- EC SHALL FIELD INVESTIGATE EXISTING LIGHT FIXTURES TO VERIFY NORMAL AND EMERGENCY FIXTURE VOLTAGES AND ENSURE NEW LIGHTING FIXTURES ARE SELECTED WITH VOLTAGES TO MATCH EXISTING.
- 4. EC SHALL REMOVE AND DISPOSE OF ALL LIGHT FIXTURES WITHIN THE WORK AREA. TAG AND PRESERVE EXISTING LIGHTING CIRCUITS FOR FUTURE RECONNECTION TO NEW LIGHTING FIXTURES.
- 5. FURNISH AND INSTALL JUNCTION BOXES WHERE REQUIRED TO CONTINUE CIRCUITS OUTSIDE OF WORK AREA.
- 6. KEYED NOTES MAY NOT APPEAR ON ALL PLAN VIEWS.

#### **DEMOLITION KEYED NOTES**

- E1 EC SHALL REMOVE AND DISPOSE OF ALL LIGHT FIXTURES WITHIN THE WORK AREA. PRESERVE EXISTING LIGHTING CIRCUITS FOR FUTURE RECONNECTION TO NEW LIGHTING FIXTURES.
- E2 EC SHALL REMOVE AND DISPOSE OF CEILING-MOUNTED SPEAKERS. EC SHALL DISCONNECT POWER SUPPLY TO SPEAKERS AND PRESERVE FOR NEW SPEAKER INSTALLATION IN NEW LOCATION. REFER TO ARCHITECTURAL REFLECTED CEILING PLAN FOR PROPOSED LAYOUT.
- EC SHALL REMOVE AND DISCONNECT FIRE ALARM DEVICES WITHIN THE DESIGNATED AREA OF WORK TO ACCOMMODATE CEILING REPLACEMENT. SUPPORT EXISTING FIRE ALARM WIRING FOR TERMINATION TO BE REINSTALLED AS INDICATED ON ARCHITECTURAL REFLECTED CEILING PLAN. CIRCUIT CONTINUITY MUST BE MAINTAINED AT ALL TIMES AS NOT TO AFFECT REMAINING DEVICES NOT INCLUDED IN THIS WORK. ALL WIRING SHALL BE TAGGED AS REQUIRED FOR REINSTALLATION OF NEW DEVICES.

#### GENERAL NEW WORK NOTES

- 1. SEE DRAWING E001 FOR GENERAL NOTES, SYMBOLS, AND ABBREVIATIONS.
- 2. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE LATEST ADOPTED EDITION OF THE NEC.
- 3. ALL CONDUCTORS SHALL BE CU AND THHN/THWN UNLESS OTHERWISE NOTED.
- IN NO CASE SHALL A 277V, 20A/1P CIRCUIT BE LOADED TO OVER 4.432KW OR A 120V, 20A/1P CIRCUIT BE LOADED TO OVER 1.92KW. MAKE CHANGES AS REQUIRED TO ENSURE COMPLIANT LOADING ON BREAKERS.
- 5. EC TO TRACE ALL CIRCUITS BACK TO SOURCE AND TAKE LOAD READINGS ON CIRCUITS AND PANELBOARD AS REQUIRED TO VERIFY CODE COMPLIANT LOADING AFTER PROJECT IS COMPLETE. MAKE ADJUSTMENTS AS REQUIRED. EC TO RELABEL ALL CIRCUIT DIRECTORIES FOR NEW CONFIGURATION AS REQUIRED AND PROVIDE AS-BUILTS TO CLIENT.
- 6. BASIS OF DESIGN FOR OCCUPANCY SENSORS IS AS FOLLOWS. EC SHALL MAKE ALL NECESSARY WIRING CONNECTIONS PER MANUFACTURER'S RECOMMENDATIONS AND ADJUST FOR MAXIMUM COVERAGE IN THE FIELD. REFER TO OCCUPANCY SENSOR WIRING DIAGRAMS ON DRAWING E701 FOR MORE INFORMATION. BASIS OF DESIGN:
- CEILING MOUNTED: HUBBELL OMNIDT200 (360°, 22' RADIUS)
   WALL MOUNTED: HUBBELL CONTROLS: LHMTS1-24V-WH
- 7. KEYED NOTES MAY NOT APPEAR ON ALL PLAN VIEWS.
- 8. SEE DRAWINGS E002-E004 FOR ELECTRICAL PANEL LOCATIONS.

#### **NEW WORK KEYED NOTES**

- E1 EC SHALL FURNISH AND INSTALL ALL NEW LIGHTING AS SHOWN ON THE ARCHITECTURAL DRAWINGS. MAKE CONNECTIONS TO THE EXISTING 277V LIGHTING CIRCUITS PRESERVED DURING DEMOLITION. PROVIDE ADDITIONAL WIRING AND SPLICES AS REQUIRED TO MAKE CONNECTIONS AND COORDINATE WITH LIGHTING CONTROLS AS SHOWN IN DETAIL 3/E701. MINIMUM WIRE SIZE SHALL BE #12 AWG CU.
- EC SHALL CONNECT POWER SUPPLY TO NEW SPEAKERS AND INSTALL AS INDICATED ON ARCHITECTURAL REFLECTED CEILING PLAN. PROVIDE ADDITIONAL WIRING AND SPLICES AS REQUIRED TO MAKE CONNECTIONS. MINIMUM WIRE SIZE SHALL BE #12 AWG CU.
- E3 EC SHALL FURNISH AND INSTALL CEILING MOUNTED OCCUPANCY SENSOR FOR AUTOMATIC LIGHTING CONTROL. PROVIDE SPLICES AND EXTEND EXISTING CIRCUITS AS REQUIRED TO ENSURE THE SENSOR IS COORDINATED WITH THE WALL MOUNTED SWITCH TO MEET THE DESIGN INTENT. MINIMUM WIRE SIZE SHALL BE #12 AWG CU.
- LIGHTING FIXTURE(S) TO PROVIDE EGRESS LIGHTING. EC SHALL FURNISH AND INSTALL GENERATOR TRANSFER DEVICE AND CONNECT THE PRESERVED NORMAL LIGHTING CIRCUIT AND PRESERVED EMERGENCY CIRCUIT TO ENSURE LIGHT IS PROVIDED POWER FROM EMERGENCY CIRCUIT DURING NORMAL POWER OUTAGE. REFER TO DETAIL 6/E701 FOR MORE INFORMATION.
- E5 LIGHTING FIXTURE TO OPERATE AS 'NIGHT LIGHT' FIXTURE AND PROVIDE EGRESS LIGHTING IN THE EVENT OF LOSS OF NORMAL POWER. EC SHALL PROVIDE POWER IN THE SPACE. PROVIDE POWER TO FIXTURE FROM THE EMERGENCY CIRCUIT AT A POINT AHEAD OF ANY SWITCHING. LIGHT TO REMAIN ON AT ALL TIMES.
- EC SHALL REPLACE IN-KIND FIRE ALARM NOTIFICATION APPLIANCE AND INITIATION DEVICES AS INDICATED ON ARCHITECTURAL REFLECTED CEILING PLAN. FURNISH AND INSTALL RECESSED BACKBOX AND CEILING TILE SUPPORT BRACKETS AS NEEDED. PROPERLY EXTEND CIRCUITING AS REQUIRED.

Arch St.

KEY PLAN - LEVEL 100



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REVISIONS:

No. Description Date

PENNSYLVANIA CONVENTION CENTER

REFLECTED CEILING PLANS-ROOMS G, H (EXHIBIT)

Project number CW1615

Date November 25, 2019

Drawn by RR,AS

Checked by

E603

1/4" = 1'-0"

le

- 1. SEE DRAWING E001 FOR GENERAL NOTES, SYMBOLS, AND ABBREVIATIONS.
- 2. PRIOR TO THE START OF WORK, EC SHALL LOCATE ALL LIGHTING AND POWER PANEL SUPPLY CIRCUITS FOR THE WORK AREA AND RECORD PANEL AND CIRCUIT NUMBER ON RECORD DRAWINGS.
- 3. EC SHALL FIELD INVESTIGATE EXISTING LIGHT FIXTURES TO VERIFY NORMAL AND EMERGENCY FIXTURE VOLTAGES AND ENSURE NEW LIGHTING FIXTURES ARE SELECTED WITH VOLTAGES TO MATCH EXISTING.
- 4. EC SHALL REMOVE AND DISPOSE OF ALL LIGHT FIXTURES WITHIN THE WORK AREA. TAG AND PRESERVE EXISTING LIGHTING CIRCUITS FOR FUTURE RECONNECTION TO NEW LIGHTING FIXTURES.
- 5. FURNISH AND INSTALL JUNCTION BOXES WHERE REQUIRED TO CONTINUE CIRCUITS OUTSIDE OF WORK AREA.
- 6. KEYED NOTES MAY NOT APPEAR ON ALL PLAN VIEWS.

#### **DEMOLITION KEYED NOTES**

- E1 EC SHALL REMOVE AND DISPOSE OF ALL LIGHT FIXTURES WITHIN THE WORK AREA. PRESERVE EXISTING LIGHTING CIRCUITS FOR FUTURE RECONNECTION TO NEW LIGHTING FIXTURES.
- E2 EC SHALL REMOVE AND DISPOSE OF CEILING-MOUNTED SPEAKERS. EC SHALL DISCONNECT POWER SUPPLY TO SPEAKERS AND PRESERVE FOR NEW SPEAKER INSTALLATION IN NEW LOCATION. REFER TO ARCHITECTURAL REFLECTED CEILING PLAN FOR PROPOSED LAYOUT.
- THE DESIGNATED AREA OF WORK TO ACCOMMODATE CEILING REPLACEMENT. SUPPORT EXISTING FIRE ALARM WIRING FOR TERMINATION TO BE REINSTALLED AS INDICATED ON ARCHITECTURAL REFLECTED CEILING PLAN. CIRCUIT CONTINUITY MUST BE MAINTAINED AT ALL TIMES AS NOT TO AFFECT REMAINING DEVICES NOT INCLUDED IN THIS WORK. ALL WIRING SHALL BE TAGGED AS REQUIRED FOR REINSTALLATION OF NEW DEVICES.

#### **GENERAL NEW WORK NOTES**

- 1. SEE DRAWING E001 FOR GENERAL NOTES, SYMBOLS, AND ABBREVIATIONS.
- 2. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE LATEST ADOPTED EDITION OF THE NEC.
- 3. ALL CONDUCTORS SHALL BE CU AND THHN/THWN UNLESS OTHERWISE NOTED.
- 4. IN NO CASE SHALL A 277V, 20A/1P CIRCUIT BE LOADED TO OVER 4.432KW OR A 120V, 20A/1P CIRCUIT BE LOADED TO OVER 1.92KW. MAKE CHANGES AS REQUIRED TO ENSURE COMPLIANT LOADING ON
- EC TO TRACE ALL CIRCUITS BACK TO SOURCE AND TAKE LOAD READINGS ON CIRCUITS AND PANELBOARD AS REQUIRED TO VERIFY CODE COMPLIANT LOADING AFTER PROJECT IS COMPLETE. MAKE ADJUSTMENTS AS REQUIRED. EC TO RELABEL ALL CIRCUIT DIRECTORIES FOR NEW CONFIGURATION AS REQUIRED AND PROVIDE AS-BUILTS TO CLIENT.
- BASIS OF DESIGN FOR OCCUPANCY SENSORS IS AS FOLLOWS. EC SHALL MAKE ALL NECESSARY WIRING CONNECTIONS PER MANUFACTURER'S RECOMMENDATIONS AND ADJUST FOR MAXIMUM COVERAGE IN THE FIELD. REFER TO OCCUPANCY SENSOR WIRING DIAGRAMS ON DRAWING E701 FOR MORE INFORMATION. BASIS OF DESIGN:
- CEILING MOUNTED: HUBBELL OMNIDT200 (360°, 22' RADIUS) WALL MOUNTED: HUBBELL CONTROLS: LHMTS1-24V-WH
- 7. KEYED NOTES MAY NOT APPEAR ON ALL PLAN VIEWS.
- 8. SEE DRAWINGS E002-E004 FOR ELECTRICAL PANEL LOCATIONS.

#### **NEW WORK KEYED NOTES**

- E1 EC SHALL FURNISH AND INSTALL ALL NEW LIGHTING AS SHOWN ON THE ARCHITECTURAL DRAWINGS. MAKE CONNECTIONS TO THE EXISTING 277V LIGHTING CIRCUITS PRESERVED DURING DEMOLITION. PROVIDE ADDITIONAL WIRING AND SPLICES AS REQUIRED TO MAKE CONNECTIONS AND COORDINATE WITH LIGHTING CONTROLS AS SHOWN IN DETAIL 3/E701. MINIMUM WIRE SIZE SHALL BE #12 AWG CU.
- E2 EC SHALL CONNECT POWER SUPPLY TO NEW SPEAKERS AND INSTALL AS INDICATED ON ARCHITECTURAL REFLECTED CEILING PLAN. PROVIDE ADDITIONAL WIRING AND SPLICES AS REQUIRED TO MAKE CONNECTIONS. MINIMUM WIRE SIZE SHALL BE #12 AWG
- E3 EC SHALL FURNISH AND INSTALL CEILING MOUNTED OCCUPANCY SENSOR FOR AUTOMATIC LIGHTING CONTROL. PROVIDE SPLICES AND EXTEND EXISTING CIRCUITS AS REQUIRED TO ENSURE THE SENSOR IS COORDINATED WITH THE WALL MOUNTED SWITCH TO MEET THE DESIGN INTENT. MINIMUM WIRE SIZE SHALL BE #12 AWG
- (E4) LIGHTING FIXTURE TO PROVIDE EGRESS LIGHTING. EC SHALL FURNISH AND INSTALL GENERATOR TRANSFER DEVICE AND CONNECT THE PRESERVED NORMAL LIGHTING CIRCUIT AND PRESERVED EMERGENCY CIRCUIT TO ENSURE LIGHT IS PROVIDED POWER FROM EMERGENCY CIRCUIT DURING NORMAL POWER OUTAGE. REFER TO DETAIL 6/E701 FOR MORE INFORMATION.
- LIGHTING FIXTURE TO OPERATE AS 'NIGHT LIGHT' FIXTURE AND PROVIDE EGRESS LIGHTING IN THE EVENT OF LOSS OF NORMAL POWER. EC SHALL PROVIDE POWER IN THE SPACE. PROVIDE POWER TO FIXTURE FROM THE EMERGENCY CIRCUIT AT A POINT AHEAD OF ANY SWITCHING. LIGHT TO REMAIN ON AT ALL TIMES.
- EC SHALL REPLACE IN-KIND FIRE ALARM NOTIFICATION APPLIANCE AND INITIATION DEVICES AS INDICATED ON ARCHITECTURAL REFLECTED CEILING PLAN. FURNISH AND INSTALL RECESSED BACKBOX AND CEILING TILE SUPPORT BRACKETS AS NEEDED. PROPERLY EXTEND CIRCUITING AS REQUIRED.

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RE	VISIONS:	
No.	Description	Date

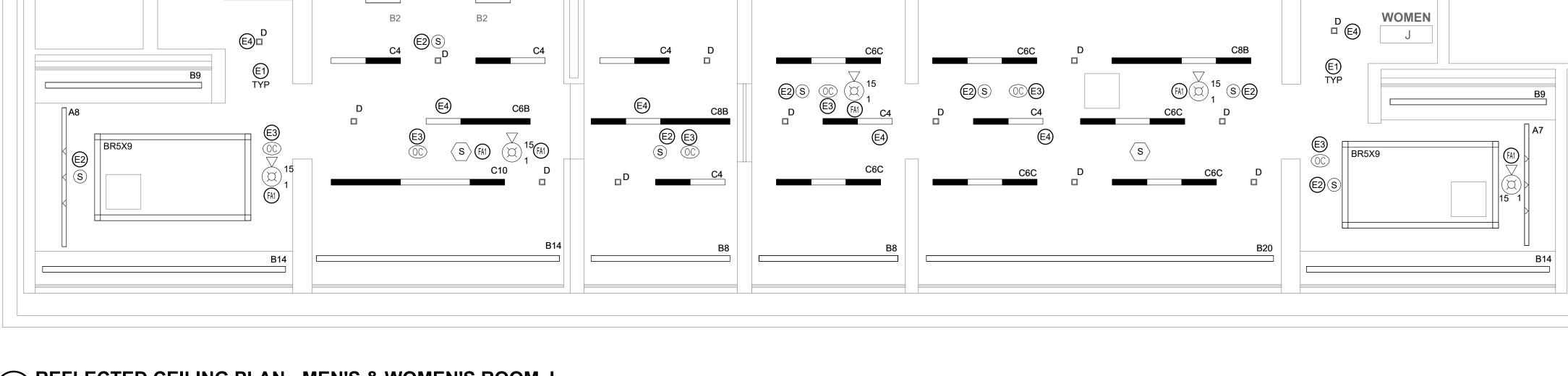
PENNSYLV,

REFLECTED **CEILING PLAN -ROOM J** (EXHIBIT)

CW1615 Project number November 25, 2019 RR,AS Drawn by

Checked by E604

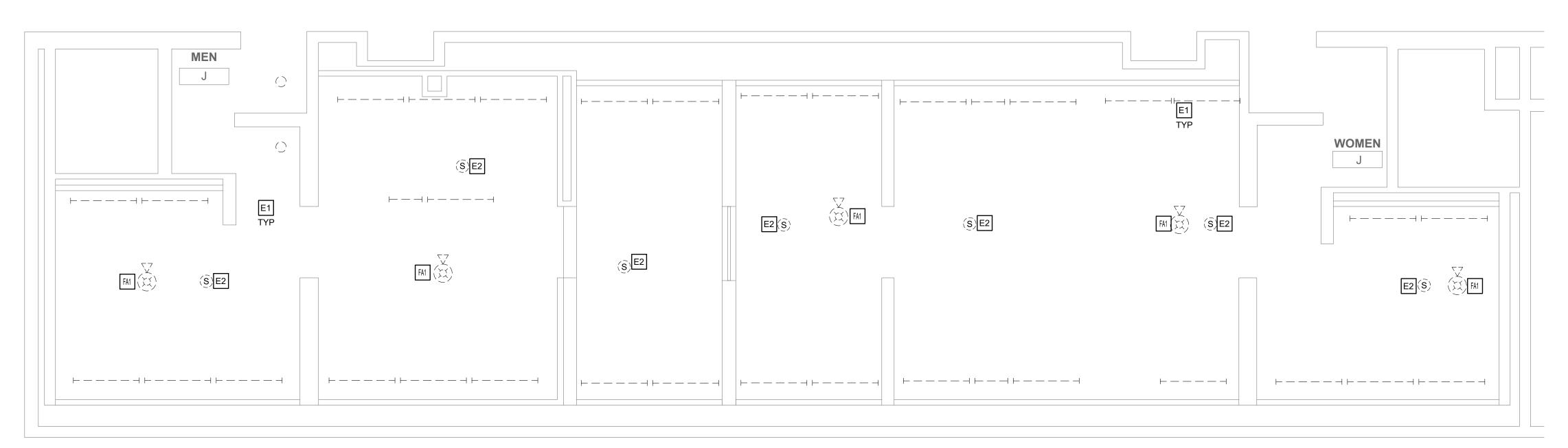
1/4" = 1'-0"



#### REFLECTED CEILING PLAN - MEN'S & WOMEN'S ROOM J E604 SCALE: 1/4" = 1'-0"

B2

MEN



1 DEMO PLAN - MEN'S & WOMEN'S ROOM J

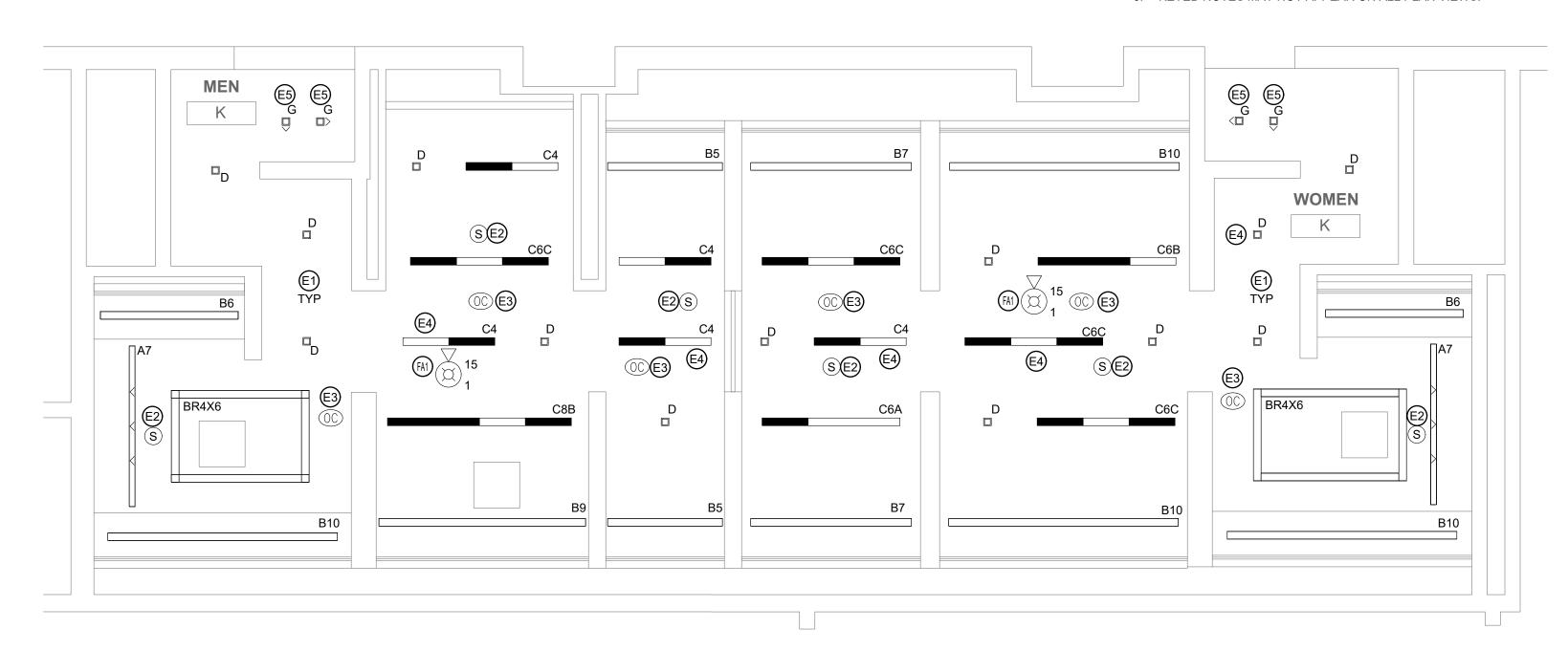
E604 SCALE: 1/4" = 1'-0"

Filbert St.

KEY PLAN - LEVEL 200

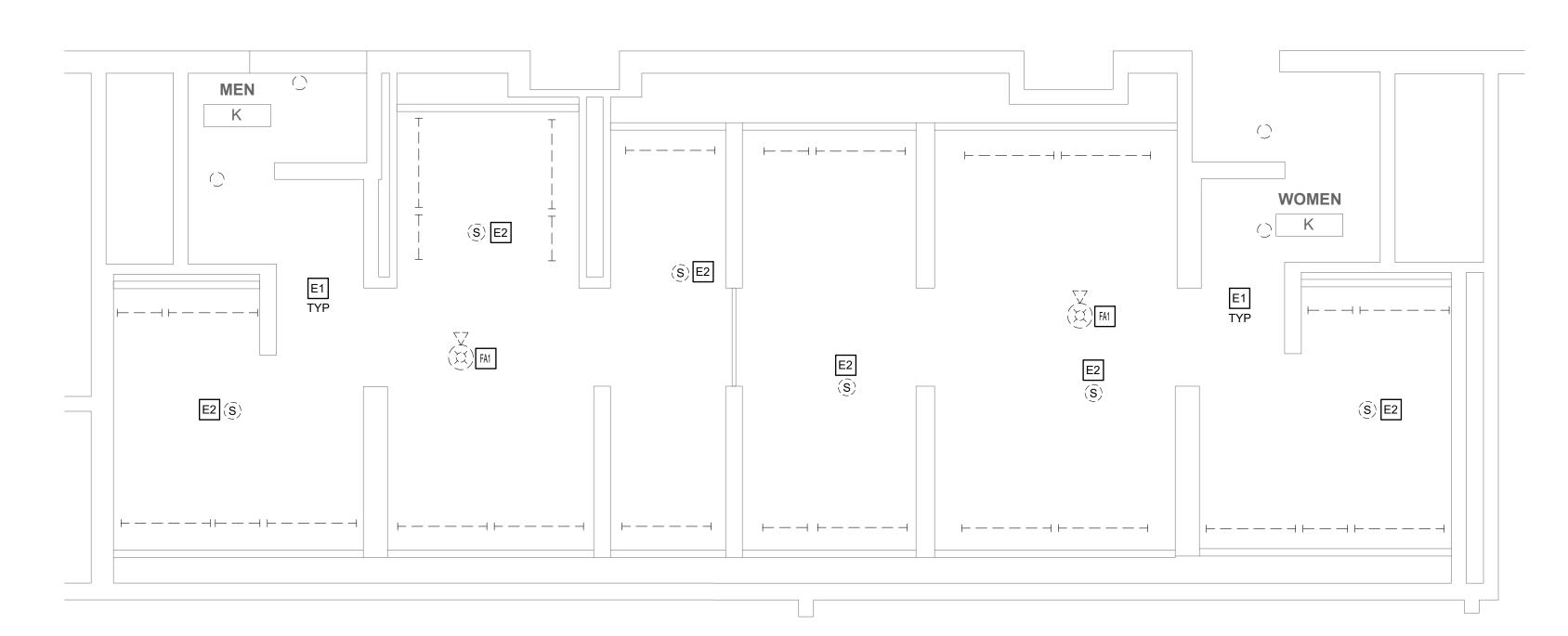
S R

- 1. SEE DRAWING E001 FOR GENERAL NOTES, SYMBOLS, AND ABBREVIATIONS.
- 2. PRIOR TO THE START OF WORK, EC SHALL LOCATE ALL LIGHTING AND POWER PANEL SUPPLY CIRCUITS FOR THE WORK AREA AND RECORD PANEL AND CIRCUIT NUMBER ON RECORD DRAWINGS.
- EC SHALL FIELD INVESTIGATE EXISTING LIGHT FIXTURES TO VERIFY NORMAL AND EMERGENCY FIXTURE VOLTAGES AND ENSURE NEW LIGHTING FIXTURES ARE SELECTED WITH VOLTAGES TO MATCH EXISTING.
- 4. EC SHALL REMOVE AND DISPOSE OF ALL LIGHT FIXTURES WITHIN THE WORK AREA. TAG AND PRESERVE EXISTING LIGHTING CIRCUITS FOR FUTURE RECONNECTION TO NEW LIGHTING FIXTURES.
- 5. FURNISH AND INSTALL JUNCTION BOXES WHERE REQUIRED TO CONTINUE CIRCUITS OUTSIDE OF WORK AREA.
- 6. KEYED NOTES MAY NOT APPEAR ON ALL PLAN VIEWS.



#### REFLECTED CEILING PLAN - MEN'S & WOMEN'S ROOM K

E605 SCALE: 1/4" = 1'-0



#### 1 DEMO PLAN - MEN'S & WOMEN'S ROOM K E605 SCALE: 1/4" = 1'-0"

#### **DEMOLITION KEYED NOTES**

- E1 EC SHALL REMOVE AND DISPOSE OF ALL LIGHT FIXTURES WITHIN THE WORK AREA. PRESERVE EXISTING LIGHTING CIRCUITS FOR FUTURE RECONNECTION TO NEW LIGHTING FIXTURES.
- E2 EC SHALL REMOVE AND DISPOSE OF CEILING-MOUNTED SPEAKERS. EC SHALL DISCONNECT POWER SUPPLY TO SPEAKERS AND PRESERVE FOR NEW SPEAKER INSTALLATION IN NEW LOCATION. REFER TO ARCHITECTURAL REFLECTED CEILING PLAN FOR PROPOSED LAYOUT.
- EC SHALL REMOVE AND DISCONNECT FIRE ALARM DEVICES WITHIN THE DESIGNATED AREA OF WORK TO ACCOMMODATE CEILING REPLACEMENT. SUPPORT EXISTING FIRE ALARM WIRING FOR TERMINATION TO BE REINSTALLED AS INDICATED ON ARCHITECTURAL REFLECTED CEILING PLAN. CIRCUIT CONTINUITY MUST BE MAINTAINED AT ALL TIMES AS NOT TO AFFECT REMAINING DEVICES NOT INCLUDED IN THIS WORK. ALL WIRING SHALL BE TAGGED AS REQUIRED FOR REINSTALLATION OF NEW DEVICES.

#### GENERAL NEW WORK NOTES

- SEE DRAWING E001 FOR GENERAL NOTES, SYMBOLS, AND ABBREVIATIONS.
- 2. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE LATEST ADOPTED EDITION OF THE NEC.
- 3. ALL CONDUCTORS SHALL BE CU AND THHN/THWN UNLESS OTHERWISE NOTED.
- 4. IN NO CASE SHALL A 277V, 20A/1P CIRCUIT BE LOADED TO OVER 4.432KW OR A 120V, 20A/1P CIRCUIT BE LOADED TO OVER 1.92KW. MAKE CHANGES AS REQUIRED TO ENSURE COMPLIANT LOADING ON BREAKERS.
- 5. EC TO TRACE ALL CIRCUITS BACK TO SOURCE AND TAKE LOAD READINGS ON CIRCUITS AND PANELBOARD AS REQUIRED TO VERIFY CODE COMPLIANT LOADING AFTER PROJECT IS COMPLETE. MAKE ADJUSTMENTS AS REQUIRED. EC TO RELABEL ALL CIRCUIT DIRECTORIES FOR NEW CONFIGURATION AS REQUIRED AND PROVIDE AS-BUILTS TO CLIENT.
- 6. BASIS OF DESIGN FOR OCCUPANCY SENSORS IS AS FOLLOWS. EC SHALL MAKE ALL NECESSARY WIRING CONNECTIONS PER MANUFACTURER'S RECOMMENDATIONS AND ADJUST FOR MAXIMUM COVERAGE IN THE FIELD. REFER TO OCCUPANCY SENSOR WIRING DIAGRAMS ON DRAWING E701 FOR MORE INFORMATION. BASIS OF DESIGN:
  - CEILING MOUNTED: HUBBELL OMNIDT200 (360°, 22' RADIUS)
     WALL MOUNTED: HUBBELL CONTROLS: LHMTS1-24V-WH
- 7. KEYED NOTES MAY NOT APPEAR ON ALL PLAN VIEWS.
- 8. SEE DRAWINGS E002-E004 FOR ELECTRICAL PANEL LOCATIONS.

#### **NEW WORK KEYED NOTES**

- EC SHALL FURNISH AND INSTALL ALL NEW LIGHTING AS SHOWN ON THE ARCHITECTURAL DRAWINGS. MAKE CONNECTIONS TO THE EXISTING 277V LIGHTING CIRCUITS PRESERVED DURING DEMOLITION. PROVIDE ADDITIONAL WIRING AND SPLICES AS REQUIRED TO MAKE CONNECTIONS AND COORDINATE WITH LIGHTING CONTROLS AS SHOWN IN DETAIL 3/E701. MINIMUM WIRE SIZE SHALL BE #12 AWG CU.
- EZ EC SHALL CONNECT POWER SUPPLY TO NEW SPEAKERS AND INSTALL AS INDICATED ON ARCHITECTURAL REFLECTED CEILING PLAN. PROVIDE ADDITIONAL WIRING AND SPLICES AS REQUIRED TO MAKE CONNECTIONS. MINIMUM WIRE SIZE SHALL BE #12 AWG CU.
- ES SHALL FURNISH AND INSTALL CEILING MOUNTED OCCUPANCY SENSOR FOR AUTOMATIC LIGHTING CONTROL. PROVIDE SPLICES AND EXTEND EXISTING CIRCUITS AS REQUIRED TO ENSURE THE SENSOR IS COORDINATED WITH THE WALL MOUNTED SWITCH TO MEET THE DESIGN INTENT. MINIMUM WIRE SIZE SHALL BE #12 AWG CU.
- LIGHTING FIXTURE TO PROVIDE EGRESS LIGHTING. EC SHALL FURNISH AND INSTALL GENERATOR TRANSFER DEVICE AND CONNECT THE PRESERVED NORMAL LIGHTING CIRCUIT AND PRESERVED EMERGENCY CIRCUIT TO ENSURE LIGHT IS PROVIDED POWER FROM EMERGENCY CIRCUIT DURING NORMAL POWER OUTAGE. REFER TO DETAIL 6/E701 FOR MORE INFORMATION.
- E5 LIGHTING FIXTURE TO OPERATE AS 'NIGHT LIGHT' FIXTURE AND PROVIDE EGRESS LIGHTING IN THE EVENT OF LOSS OF NORMAL POWER. EC SHALL PROVIDE POWER IN THE SPACE. PROVIDE POWER TO FIXTURE FROM THE EMERGENCY CIRCUIT AT A POINT AHEAD OF ANY SWITCHING. LIGHT TO REMAIN ON AT ALL TIMES.
- EC SHALL REPLACE IN-KIND FIRE ALARM NOTIFICATION APPLIANCE AND INITIATION DEVICES AS INDICATED ON ARCHITECTURAL REFLECTED CEILING PLAN. FURNISH AND INSTALL RECESSED BACKBOX AND CEILING TILE SUPPORT BRACKETS AS NEEDED. PROPERLY EXTEND CIRCUITING AS REQUIRED.

S R

Arch St.

Filbert St.

KEY PLAN - LEVEL 200

• CONVERSE
• WINKLER
• ARCHITECTURE

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PHILADELPHIA, PA 19125



REVISIONS:

No. Description Date

PENNSYLVANIA ONVENTION CENTER

> REFLECTED CEILING PLAN -ROOM K (EXHIBIT)

> > CW1615

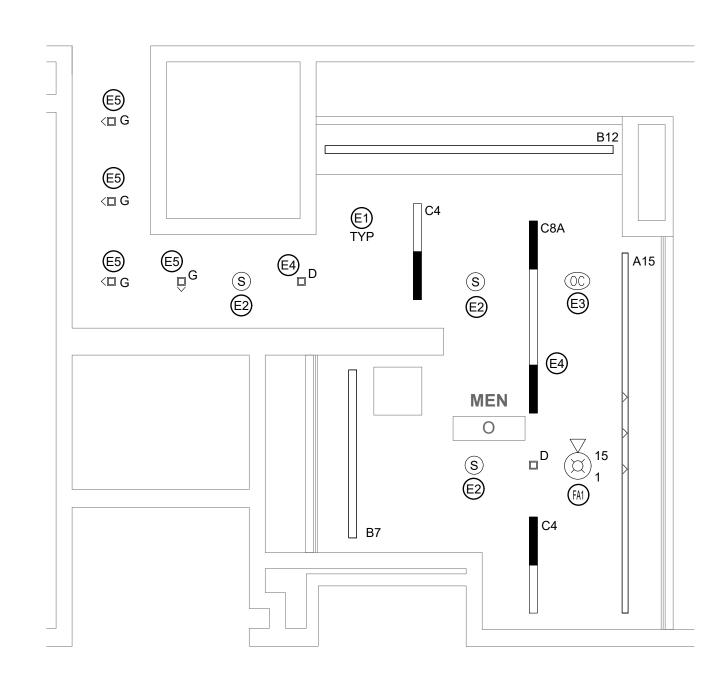
1/4" = 1'-0"

Project number

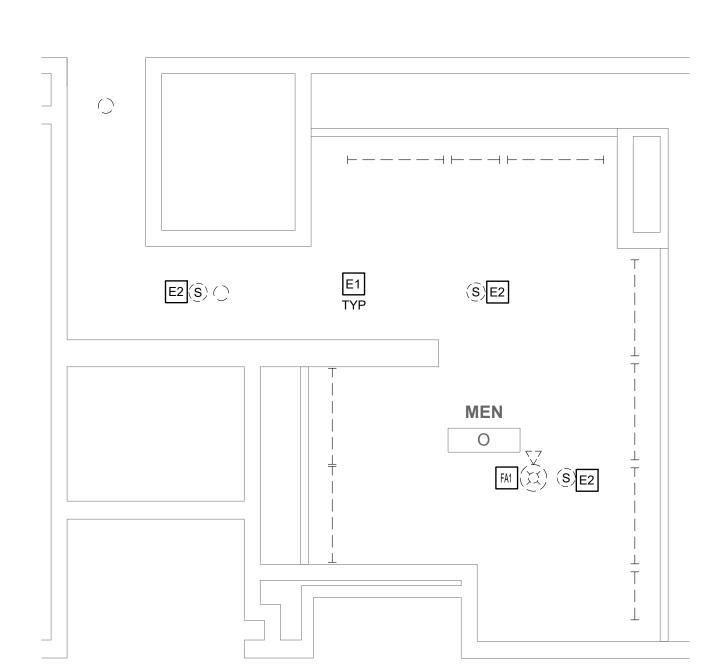
Date November 25, 2019
Drawn by RR,AS
Checked by HL

E605

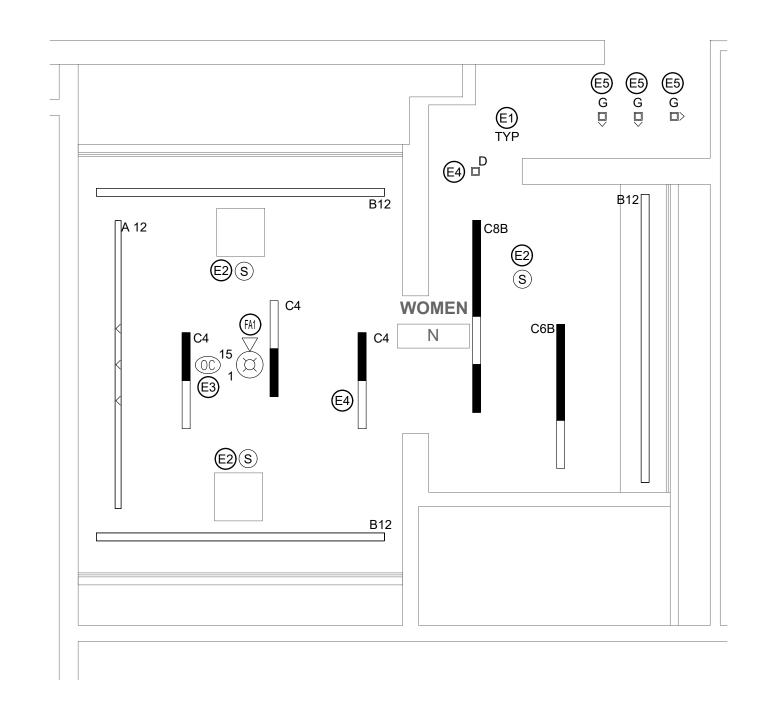
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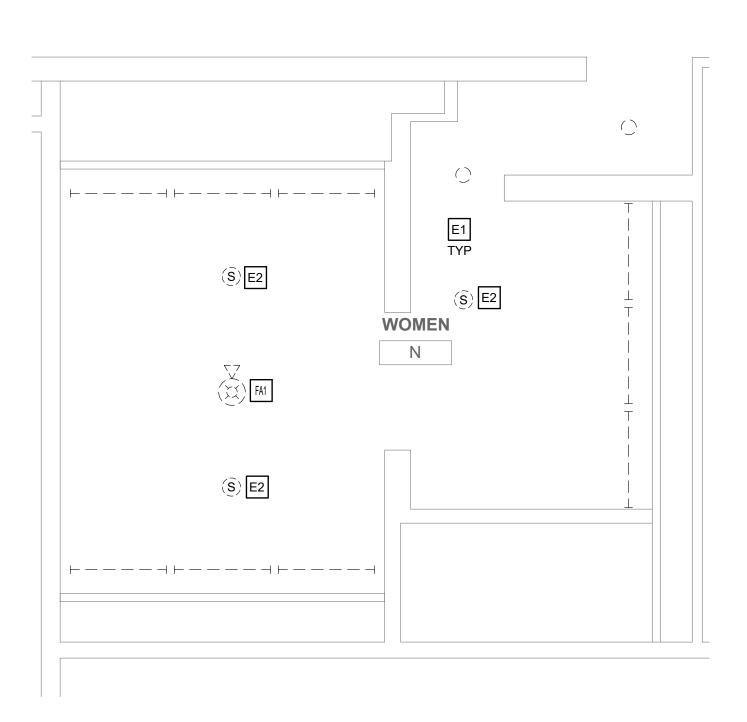
#### (4) REFLECTED CEILING PLAN - MEN'S ROOM O E606 SCALE: 1/4" = 1'-0"



**DEMO PLAN - MEN'S ROOM O** E606 SCALE: 1/4" = 1'-0"



#### REFLECTED CEILING PLAN - WOMEN'S ROOM N



DEMO PLAN - WOMEN'S ROOM N

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

#### GENERAL DEMOLITION NOTES

- 1. SEE DRAWING E001 FOR GENERAL NOTES, SYMBOLS, AND
- 2. PRIOR TO THE START OF WORK, EC SHALL LOCATE ALL LIGHTING AND POWER PANEL SUPPLY CIRCUITS FOR THE WORK AREA AND RECORD PANEL AND CIRCUIT NUMBER ON RECORD DRAWINGS.
- 3. EC SHALL FIELD INVESTIGATE EXISTING LIGHT FIXTURES TO VERIFY NORMAL AND EMERGENCY FIXTURE VOLTAGES AND ENSURE NEW LIGHTING FIXTURES ARE SELECTED WITH VOLTAGES TO MATCH
- 4. EC SHALL REMOVE AND DISPOSE OF ALL LIGHT FIXTURES WITHIN THE WORK AREA. TAG AND PRESERVE EXISTING LIGHTING CIRCUITS FOR FUTURE RECONNECTION TO NEW LIGHTING FIXTURES.
- 5. FURNISH AND INSTALL JUNCTION BOXES WHERE REQUIRED TO CONTINUE CIRCUITS OUTSIDE OF WORK AREA.
- 6. KEYED NOTES MAY NOT APPEAR ON ALL PLAN VIEWS.

#### DEMOLITION KEYED NOTES

- E1 EC SHALL REMOVE AND DISPOSE OF ALL LIGHT FIXTURES WITHIN THE WORK AREA PRESERVE EXISTING LIGHTING CIRCUITS FOR THE WORK AREA. PRESERVE EXISTING LIGHTING CIRCUITS FOR FUTURE RECONNECTION TO NEW LIGHTING FIXTURES.
- E2 EC SHALL REMOVE AND DISPOSE OF CEILING-MOUNTED SPEAKERS. EC SHALL DISCONNECT POWER SUPPLY TO SPEAKERS AND PRESERVE FOR NEW SPEAKER INSTALLATION IN NEW LOCATION. REFER TO ARCHITECTURAL REFLECTED CEILING PLAN FOR PROPOSED LAYOUT.
- EC SHALL REMOVE AND DISCONNECT FIRE ALARM DEVICES WITHIN THE DESIGNATED AREA OF WORK TO ACCOMMODATE CEILING REPLACEMENT. SUPPORT EXISTING FIRE ALARM WIRING FOR TERMINATION TO BE REINSTALLED AS INDICATED ON ARCHITECTURAL REFLECTED CEILING PLAN. CIRCUIT CONTINUITY MUST BE MAINTAINED AT ALL TIMES AS NOT TO AFFECT REMAINING DEVICES NOT INCLUDED IN THIS WORK. ALL WIRING SHALL BE TAGGED AS REQUIRED FOR REINSTALLATION OF NEW DEVICES.

#### **GENERAL NEW WORK NOTES**

- 1. SEE DRAWING E001 FOR GENERAL NOTES, SYMBOLS, AND ABBREVIATIONS.
- 2. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE LATEST ADOPTED EDITION OF THE NEC.
- 3. ALL CONDUCTORS SHALL BE CU AND THHN/THWN UNLESS OTHERWISE NOTED.
- 4. IN NO CASE SHALL A 277V, 20A/1P CIRCUIT BE LOADED TO OVER 4.432KW OR A 120V, 20A/1P CIRCUIT BE LOADED TO OVER 1.92KW. MAKE CHANGES AS REQUIRED TO ENSURE COMPLIANT LOADING ON
- EC TO TRACE ALL CIRCUITS BACK TO SOURCE AND TAKE LOAD READINGS ON CIRCUITS AND PANELBOARD AS REQUIRED TO VERIFY CODE COMPLIANT LOADING AFTER PROJECT IS COMPLETE. MAKE ADJUSTMENTS AS REQUIRED. EC TO RELABEL ALL CIRCUIT DIRECTORIES FOR NEW CONFIGURATION AS REQUIRED AND PROVIDE AS-BUILTS TO CLIENT.
- BASIS OF DESIGN FOR OCCUPANCY SENSORS IS AS FOLLOWS. EC SHALL MAKE ALL NECESSARY WIRING CONNECTIONS PER MANUFACTURER'S RECOMMENDATIONS AND ADJUST FOR MAXIMUM COVERAGE IN THE FIELD. REFER TO OCCUPANCY SENSOR WIRING DIAGRAMS ON DRAWING E701 FOR MORE INFORMATION.
- CEILING MOUNTED: HUBBELL OMNIDT200 (360°, 22' RADIUS) WALL MOUNTED: HUBBELL CONTROLS: LHMTS1-24V-WH
- 7. KEYED NOTES MAY NOT APPEAR ON ALL PLAN VIEWS.
- 8. SEE DRAWINGS E002-E004 FOR ELECTRICAL PANEL LOCATIONS.

#### **NEW WORK KEYED NOTES**

- E1 EC SHALL FURNISH AND INSTALL ALL NEW LIGHTING AS SHOWN ON THE ARCHITECTURAL DRAWINGS. MAKE CONNECTIONS TO THE EXISTING 277V LIGHTING CIRCUITS PRESERVED DURING DEMOLITION. PROVIDE ADDITIONAL WIRING AND SPLICES AS REQUIRED TO MAKE CONNECTIONS AND COORDINATE WITH LIGHTING CONTROLS AS SHOWN IN DETAIL 3/E701. MINIMUM WIRE SIZE SHALL BE #12 AWG CU.
- E2 EC SHALL CONNECT POWER SUPPLY TO NEW SPEAKERS AND INSTALL AS INDICATED ON ARCHITECTURAL REFLECTED CEILING PLAN. PROVIDE ADDITIONAL WIRING AND SPLICES AS REQUIRED TO MAKE CONNECTIONS. MINIMUM WIRE SIZE SHALL BE #12 AWG
- E3 EC SHALL FURNISH AND INSTALL CEILING MOUNTED OCCUPANCY SENSOR FOR AUTOMATIC LIGHTING CONTROL. PROVIDE SPLICES AND EXTEND EXISTING CIRCUITS AS REQUIRED TO ENSURE THE SENSOR IS COORDINATED WITH THE WALL MOUNTED SWITCH TO MEET THE DESIGN INTENT. MINIMUM WIRE SIZE SHALL BE #12 AWG
- E4 LIGHTING FIXTURE TO PROVIDE EGRESS LIGHTING. EC SHALL FURNISH AND INSTALL GENERATOR TRANSFER DEVICE AND CONNECT THE PRESERVED NORMAL LIGHTING CIRCUIT AND PRESERVED EMERGENCY CIRCUIT TO ENSURE LIGHT IS PROVIDED POWER FROM EMERGENCY CIRCUIT DURING NORMAL POWER OUTAGE. REFER TO DETAIL 6/E701 FOR MORE INFORMATION.
- E5 LIGHTING FIXTURE TO OPERATE AS 'NIGHT LIGHT' FIXTURE AND PROVIDE EGRESS LIGHTING IN THE EVENT OF LOSS OF NORMAL POWER. EC SHALL PROVIDE POWER IN THE SPACE. PROVIDE POWER TO FIXTURE FROM THE EMERGENCY CIRCUIT AT A POINT AHEAD OF ANY SWITCHING. LIGHT TO REMAIN ON AT ALL TIMES.
- EC SHALL REPLACE IN-KIND FIRE ALARM NOTIFICATION APPLIANCE AND INITIATION DEVICES AS INDICATED ON ARCHITECTURAL REFLECTED CEILING PLAN. FURNISH AND INSTALL RECESSED BACKBOX AND CEILING TILE SUPPORT BRACKETS AS NEEDED. PROPERLY EXTEND CIRCUITING AS REQUIRED.

S R

**KEY PLAN - LEVEL 200** 

CONVERSE WINKLER

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Contact: Wing Au e-mail: wau@csagroup.com



REVISIONS: Description Date

PENNSYLVANIA ONVENTION CENTER

REFLECTED **CEILING PLAN -**ROOMS N, O (EXHIBIT)

CW1615 Project number November 25, 2019 RR,AS Drawn by

Checked by E606

- 1. SEE DRAWING E001 FOR GENERAL NOTES, SYMBOLS, AND ABBREVIATIONS.
- 2. PRIOR TO THE START OF WORK, EC SHALL LOCATE ALL LIGHTING AND POWER PANEL SUPPLY CIRCUITS FOR THE WORK AREA AND RECORD PANEL AND CIRCUIT NUMBER ON RECORD DRAWINGS.
- 3. EC SHALL FIELD INVESTIGATE EXISTING LIGHT FIXTURES TO VERIFY NORMAL AND EMERGENCY FIXTURE VOLTAGES AND ENSURE NEW LIGHTING FIXTURES ARE SELECTED WITH VOLTAGES TO MATCH EXISTING.
- 4. EC SHALL REMOVE AND DISPOSE OF ALL LIGHT FIXTURES WITHIN THE WORK AREA. TAG AND PRESERVE EXISTING LIGHTING CIRCUITS FOR FUTURE RECONNECTION TO NEW LIGHTING FIXTURES.
- 5. FURNISH AND INSTALL JUNCTION BOXES WHERE REQUIRED TO CONTINUE CIRCUITS OUTSIDE OF WORK AREA.
- 6. KEYED NOTES MAY NOT APPEAR ON ALL PLAN VIEWS.

#### **DEMOLITION KEYED NOTES**

- E1 EC SHALL REMOVE AND DISPOSE OF ALL LIGHT FIXTURES WITHIN THE WORK AREA. PRESERVE EXISTING LIGHTING CIRCUITS FOR FUTURE RECONNECTION TO NEW LIGHTING FIXTURES.
- E2 EC SHALL REMOVE AND DISPOSE OF CEILING-MOUNTED SPEAKERS. EC SHALL DISCONNECT POWER SUPPLY TO SPEAKERS AND PRESERVE FOR NEW SPEAKER INSTALLATION IN NEW LOCATION. REFER TO ARCHITECTURAL REFLECTED CEILING PLAN FOR PROPOSED LAYOUT.
- THE DESIGNATED AREA OF WORK TO ACCOMMODATE CEILING REPLACEMENT. SUPPORT EXISTING FIRE ALARM WIRING FOR TERMINATION TO BE REINSTALLED AS INDICATED ON ARCHITECTURAL REFLECTED CEILING PLAN. CIRCUIT CONTINUITY MUST BE MAINTAINED AT ALL TIMES AS NOT TO AFFECT REMAINING DEVICES NOT INCLUDED IN THIS WORK. ALL WIRING SHALL BE TAGGED AS REQUIRED FOR REINSTALLATION OF NEW DEVICES.

#### **GENERAL NEW WORK NOTES**

- 1. SEE DRAWING E001 FOR GENERAL NOTES, SYMBOLS, AND ABBREVIATIONS.
- 2. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE LATEST ADOPTED EDITION OF THE NEC.
- 3. ALL CONDUCTORS SHALL BE CU AND THHN/THWN UNLESS OTHERWISE NOTED.
- 4. IN NO CASE SHALL A 277V, 20A/1P CIRCUIT BE LOADED TO OVER 4.432KW OR A 120V, 20A/1P CIRCUIT BE LOADED TO OVER 1.92KW. MAKE CHANGES AS REQUIRED TO ENSURE COMPLIANT LOADING ON
- EC TO TRACE ALL CIRCUITS BACK TO SOURCE AND TAKE LOAD READINGS ON CIRCUITS AND PANELBOARD AS REQUIRED TO VERIFY CODE COMPLIANT LOADING AFTER PROJECT IS COMPLETE. MAKE ADJUSTMENTS AS REQUIRED. EC TO RELABEL ALL CIRCUIT DIRECTORIES FOR NEW CONFIGURATION AS REQUIRED AND PROVIDE AS-BUILTS TO CLIENT.
- BASIS OF DESIGN FOR OCCUPANCY SENSORS IS AS FOLLOWS. EC SHALL MAKE ALL NECESSARY WIRING CONNECTIONS PER MANUFACTURER'S RECOMMENDATIONS AND ADJUST FOR MAXIMUM COVERAGE IN THE FIELD. REFER TO OCCUPANCY SENSOR WIRING DIAGRAMS ON DRAWING E701 FOR MORE INFORMATION.
- CEILING MOUNTED: HUBBELL OMNIDT200 (360°, 22' RADIUS) WALL MOUNTED: HUBBELL CONTROLS: LHMTS1-24V-WH
- 7. KEYED NOTES MAY NOT APPEAR ON ALL PLAN VIEWS.
- 8. SEE DRAWINGS E002-E004 FOR ELECTRICAL PANEL LOCATIONS.

#### **NEW WORK KEYED NOTES**

- THE ARCHITECTURAL DRAWINGS. MAKE CONNECTIONS TO THE EXISTING 277V LIGHTING CIRCUITS PRESERVED DURING DEMOLITION. PROVIDE ADDITIONAL WIRING AND SPLICES AS REQUIRED TO MAKE CONNECTIONS AND COORDINATE WITH LIGHTING CONTROLS AS SHOWN IN DETAIL 3/E701. MINIMUM WIRE SIZE SHALL BE #12 AWG CU.
- (E3) EC SHALL FURNISH AND INSTALL CEILING MOUNTED OCCUPANCY SENSOR FOR AUTOMATIC LIGHTING CONTROL. PROVIDE SPLICES AND EXTEND EXISTING CIRCUITS AS REQUIRED TO ENSURE THE SENSOR IS COORDINATED WITH THE WALL MOUNTED SWITCH TO MEET THE DESIGN INTENT. MINIMUM WIRE SIZE SHALL BE #12 AWG
- (E4) LIGHTING FIXTURE TO PROVIDE EGRESS LIGHTING. EC SHALL FURNISH AND INSTALL GENERATOR TRANSFER DEVICE AND CONNECT THE PRESERVED NORMAL LIGHTING CIRCUIT AND PRESERVED EMERGENCY CIRCUIT TO ENSURE LIGHT IS PROVIDED POWER FROM EMERGENCY CIRCUIT DURING NORMAL POWER OUTAGE. REFER TO DETAIL 6/E701 FOR MORE INFORMATION.
- LIGHTING FIXTURE TO OPERATE AS 'NIGHT LIGHT' FIXTURE AND PROVIDE EGRESS LIGHTING IN THE EVENT OF LOSS OF NORMAL POWER. EC SHALL PROVIDE POWER IN THE SPACE. PROVIDE POWER TO FIXTURE FROM THE EMERGENCY CIRCUIT AT A POINT AHEAD OF ANY SWITCHING. LIGHT TO REMAIN ON AT ALL TIMES.
- (FAI) EC SHALL REPLACE IN-KIND FIRE ALARM NOTIFICATION APPLIANCE AND INITIATION DEVICES AS INDICATED ON ARCHITECTURAL REFLECTED CEILING PLAN. FURNISH AND INSTALL RECESSED BACKBOX AND CEILING TILE SUPPORT BRACKETS AS NEEDED. PROPERLY EXTEND CIRCUITING AS REQUIRED.

- E1 EC SHALL FURNISH AND INSTALL ALL NEW LIGHTING AS SHOWN ON
- E2 EC SHALL CONNECT POWER SUPPLY TO NEW SPEAKERS AND INSTALL AS INDICATED ON ARCHITECTURAL REFLECTED CEILING PLAN. PROVIDE ADDITIONAL WIRING AND SPLICES AS REQUIRED TO MAKE CONNECTIONS. MINIMUM WIRE SIZE SHALL BE #12 AWG

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1341 NORTH DELAWARE AVENUE,

RYAN M. ROGALA

Description

Date

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CSA GROUP

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Contact: Wing Au

SUITE 507

STRUCTURAL ENGINEERS:

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WINKLER

**MEP ENGINEERS:** 

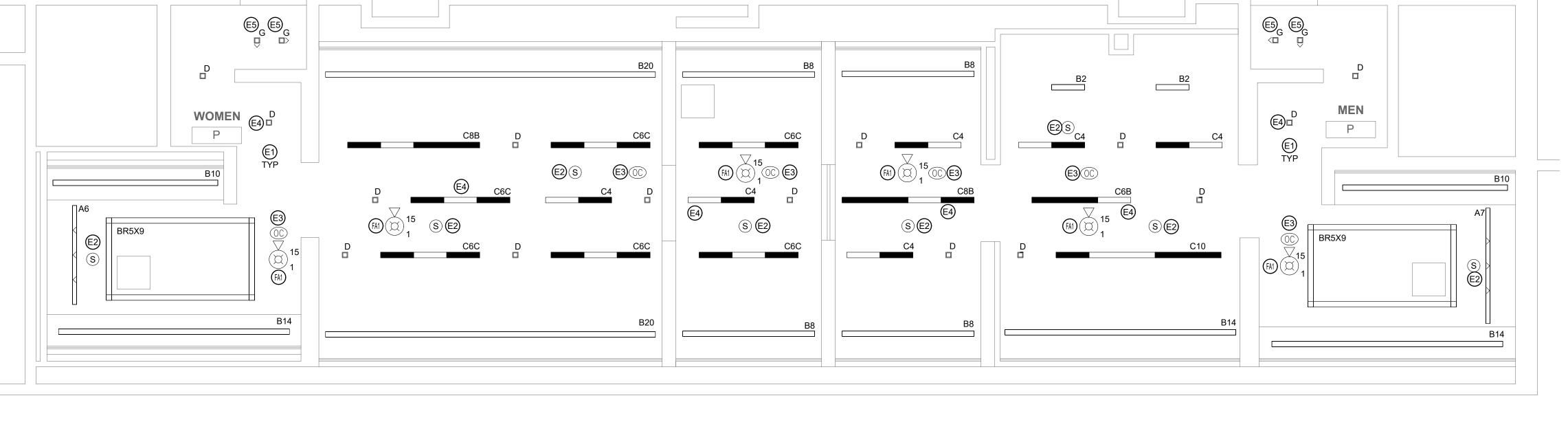
REFLECTED **CEILING PLAN -ROOM P** (EXHIBIT)

CW1615 Project number November 25, 2019 RR,AS Drawn by

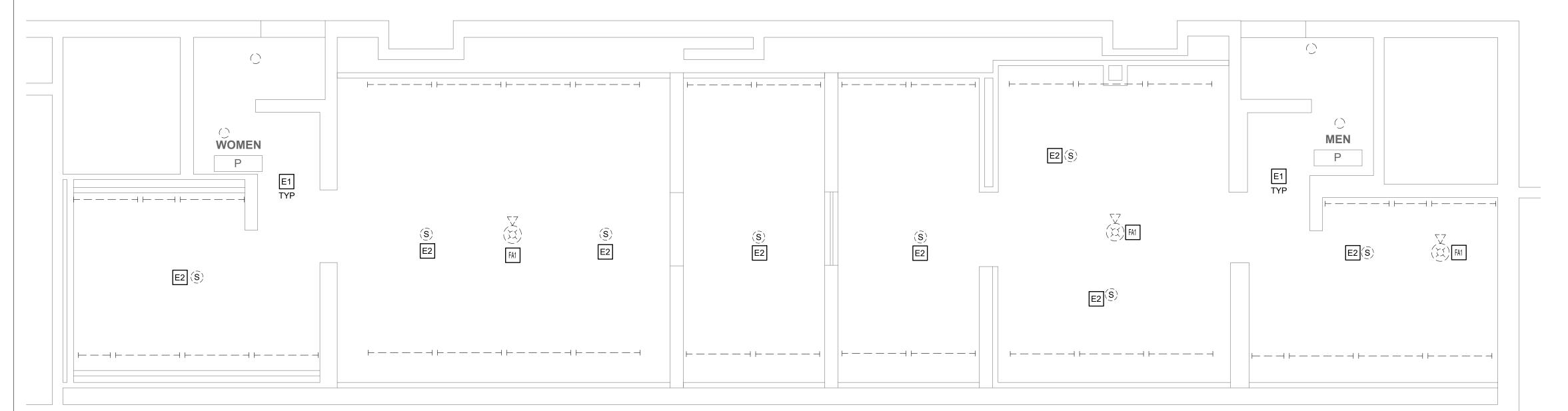
Checked by E607

1/4" = 1'-0"

1 DEMO PLAN - MEN'S & WOMEN'S ROOM P E607 SCALE: 1/4" = 1'-0"

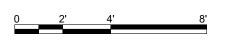


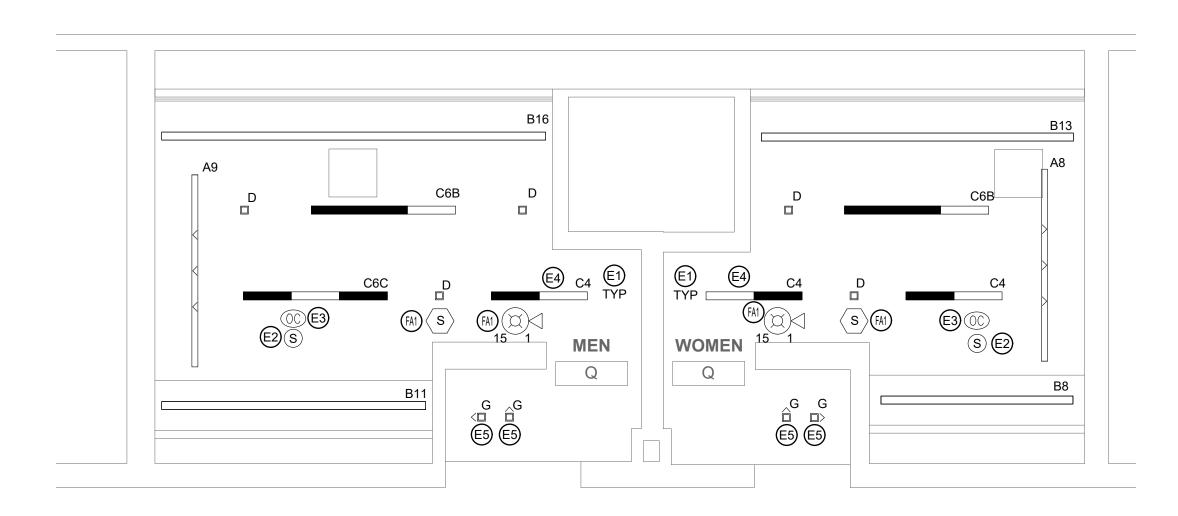
REFLECTED CEILING PLAN - MEN'S & WOMEN'S ROOM P E607 SCALE: 1/4" = 1'-0"



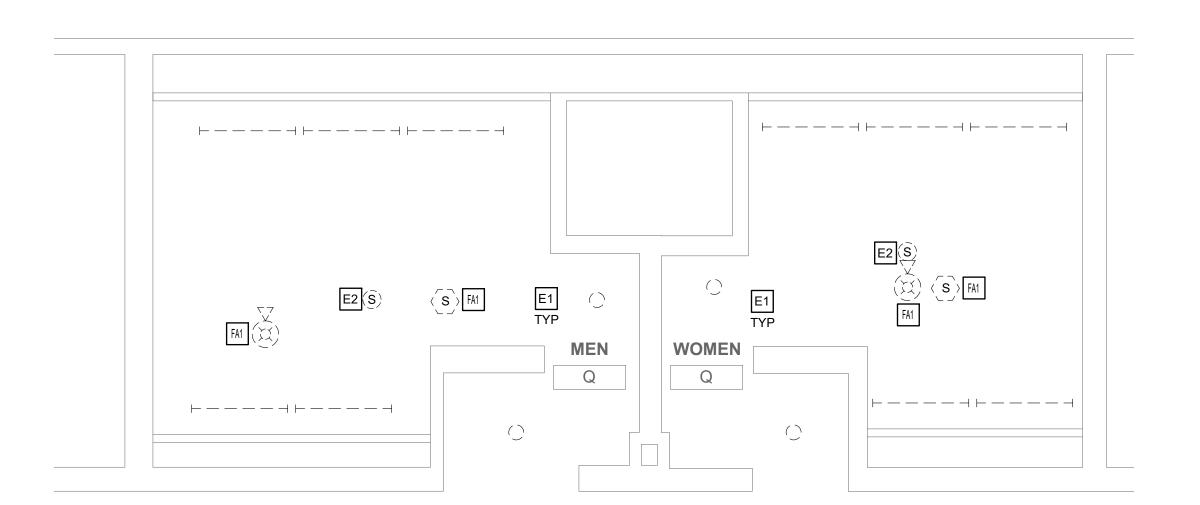
KEY PLAN - LEVEL 200

Filbert St.





#### REFLECTED CEILING PLAN - MEN'S & WOMEN'S ROOM Q E608 SCALE: 1/4" = 1'-0"



1 DEMO PLAN - MEN'S & WOMEN'S ROOM Q E608 SCALE: 1/4" = 1'-0"

#### GENERAL DEMOLITION NOTES

- 1. SEE DRAWING E001 FOR GENERAL NOTES, SYMBOLS, AND
- 2. PRIOR TO THE START OF WORK, EC SHALL LOCATE ALL LIGHTING AND POWER PANEL SUPPLY CIRCUITS FOR THE WORK AREA AND RECORD PANEL AND CIRCUIT NUMBER ON RECORD DRAWINGS.
- 3. EC SHALL FIELD INVESTIGATE EXISTING LIGHT FIXTURES TO VERIFY NORMAL AND EMERGENCY FIXTURE VOLTAGES AND ENSURE NEW LIGHTING FIXTURES ARE SELECTED WITH VOLTAGES TO MATCH
- 4. EC SHALL REMOVE AND DISPOSE OF ALL LIGHT FIXTURES WITHIN THE WORK AREA. TAG AND PRESERVE EXISTING LIGHTING CIRCUITS FOR FUTURE RECONNECTION TO NEW LIGHTING FIXTURES.
- 5. FURNISH AND INSTALL JUNCTION BOXES WHERE REQUIRED TO CONTINUE CIRCUITS OUTSIDE OF WORK AREA.
- 6. KEYED NOTES MAY NOT APPEAR ON ALL PLAN VIEWS.

#### **DEMOLITION KEYED NOTES**

- E1 EC SHALL REMOVE AND DISPOSE OF ALL LIGHT FIXTURES WITHIN THE WORK AREA PRESERVE EXISTING LIGHTING CIRCLUTE FOR THE WORK AREA. PRESERVE EXISTING LIGHTING CIRCUITS FOR FUTURE RECONNECTION TO NEW LIGHTING FIXTURES.
- E2 EC SHALL REMOVE AND DISPOSE OF CEILING-MOUNTED SPEAKERS. EC SHALL DISCONNECT POWER SUPPLY TO SPEAKERS AND PRESERVE FOR NEW SPEAKER INSTALLATION IN NEW LOCATION. REFER TO ARCHITECTURAL REFLECTED CEILING PLAN FOR PROPOSED LAYOUT.
- EC SHALL REMOVE AND DISCONNECT FIRE ALARM DEVICES WITHIN THE DESIGNATED AREA OF WORK TO ACCOMMODATE CEILING REPLACEMENT. SUPPORT EXISTING FIRE ALARM WIRING FOR TERMINATION TO BE REINSTALLED AS INDICATED ON ARCHITECTURAL REFLECTED CEILING PLAN. CIRCUIT CONTINUITY MUST BE MAINTAINED AT ALL TIMES AS NOT TO AFFECT REMAINING DEVICES NOT INCLUDED IN THIS WORK. ALL WIRING SHALL BE TAGGED AS REQUIRED FOR REINSTALLATION OF NEW DEVICES.

#### **GENERAL NEW WORK NOTES**

- 1. SEE DRAWING E001 FOR GENERAL NOTES, SYMBOLS, AND ABBREVIATIONS.
- 2. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE LATEST ADOPTED EDITION OF THE NEC.
- 3. ALL CONDUCTORS SHALL BE CU AND THHN/THWN UNLESS OTHERWISE NOTED.
- 4. IN NO CASE SHALL A 277V, 20A/1P CIRCUIT BE LOADED TO OVER 4.432KW OR A 120V, 20A/1P CIRCUIT BE LOADED TO OVER 1.92KW. MAKE CHANGES AS REQUIRED TO ENSURE COMPLIANT LOADING ON
- 5. EC TO TRACE ALL CIRCUITS BACK TO SOURCE AND TAKE LOAD READINGS ON CIRCUITS AND PANELBOARD AS REQUIRED TO VERIFY CODE COMPLIANT LOADING AFTER PROJECT IS COMPLETE. MAKE ADJUSTMENTS AS REQUIRED. EC TO RELABEL ALL CIRCUIT DIRECTORIES FOR NEW CONFIGURATION AS REQUIRED AND PROVIDE AS-BUILTS TO CLIENT.
- BASIS OF DESIGN FOR OCCUPANCY SENSORS IS AS FOLLOWS. EC SHALL MAKE ALL NECESSARY WIRING CONNECTIONS PER MANUFACTURER'S RECOMMENDATIONS AND ADJUST FOR MAXIMUM COVERAGE IN THE FIELD. REFER TO OCCUPANCY SENSOR WIRING DIAGRAMS ON DRAWING E701 FOR MORE INFORMATION.
- CEILING MOUNTED: HUBBELL OMNIDT200 (360°, 22' RADIUS) WALL MOUNTED: HUBBELL CONTROLS: LHMTS1-24V-WH
- 7. KEYED NOTES MAY NOT APPEAR ON ALL PLAN VIEWS.
- 8. SEE DRAWINGS E002-E004 FOR ELECTRICAL PANEL LOCATIONS.

#### NEW WORK KEYED NOTES

- E1 EC SHALL FURNISH AND INSTALL ALL NEW LIGHTING AS SHOWN ON THE ARCHITECTURAL DRAWINGS. MAKE CONNECTIONS TO THE EXISTING 277V LIGHTING CIRCUITS PRESERVED DURING DEMOLITION. PROVIDE ADDITIONAL WIRING AND SPLICES AS REQUIRED TO MAKE CONNECTIONS AND COORDINATE WITH LIGHTING CONTROLS AS SHOWN IN DETAIL 3/E701. MINIMUM WIRE SIZE SHALL BE #12 AWG CU.
- E2 EC SHALL CONNECT POWER SUPPLY TO NEW SPEAKERS AND INSTALL AS INDICATED ON ARCHITECTURAL REFLECTED CEILING PLAN. PROVIDE ADDITIONAL WIRING AND SPLICES AS REQUIRED TO MAKE CONNECTIONS. MINIMUM WIRE SIZE SHALL BE #12 AWG
- E3 EC SHALL FURNISH AND INSTALL CEILING MOUNTED OCCUPANCY SENSOR FOR AUTOMATIC LIGHTING CONTROL. PROVIDE SPLICES AND EXTEND EXISTING CIRCUITS AS REQUIRED TO ENSURE THE SENSOR IS COORDINATED WITH THE WALL MOUNTED SWITCH TO MEET THE DESIGN INTENT. MINIMUM WIRE SIZE SHALL BE #12 AWG
- E4 LIGHTING FIXTURE TO PROVIDE EGRESS LIGHTING. EC SHALL FURNISH AND INSTALL GENERATOR TRANSFER DEVICE AND CONNECT THE PRESERVED NORMAL LIGHTING CIRCUIT AND PRESERVED EMERGENCY CIRCUIT TO ENSURE LIGHT IS PROVIDED POWER FROM EMERGENCY CIRCUIT DURING NORMAL POWER OUTAGE. REFER TO DETAIL 6/E701 FOR MORE INFORMATION.
- LIGHTING FIXTURE TO OPERATE AS 'NIGHT LIGHT' FIXTURE AND PROVIDE EGRESS LIGHTING IN THE EVENT OF LOSS OF NORMAL POWER. EC SHALL PROVIDE POWER IN THE SPACE. PROVIDE POWER TO FIXTURE FROM THE EMERGENCY CIRCUIT AT A POINT AHEAD OF ANY SWITCHING. LIGHT TO REMAIN ON AT ALL TIMES.
- EC SHALL REPLACE IN-KIND FIRE ALARM NOTIFICATION APPLIANCE AND INITIATION DEVICES AS INDICATED ON ARCHITECTURAL REFLECTED CEILING PLAN. FURNISH AND INSTALL RECESSED BACKBOX AND CEILING TILE SUPPORT BRACKETS AS NEEDED. PROPERLY EXTEND CIRCUITING AS REQUIRED.



**MEP ENGINEERS:** 



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Contact: Kevin Sultanik e-mail: ksultanik@aroraengineers.com

STRUCTURAL ENGINEERS:

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Ph: 215.427.8700 Fax: 215.427.8752

Contact: Wing Au e-mail: wau@csagroup.com



Description Date

**REVISIONS:** 

/ANIA CENTER PENNSYLV,

REFLECTED **CEILING PLAN -ROOM Q** (EXHIBIT)

CW1615 Project number November 25, 2019 RR,AS

Drawn by

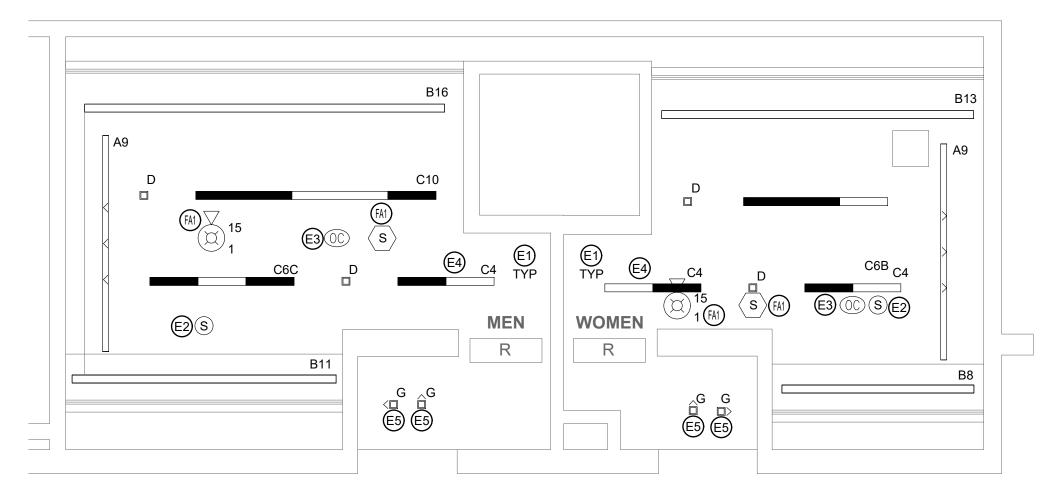
Checked by E608

1/4" = 1'-0"

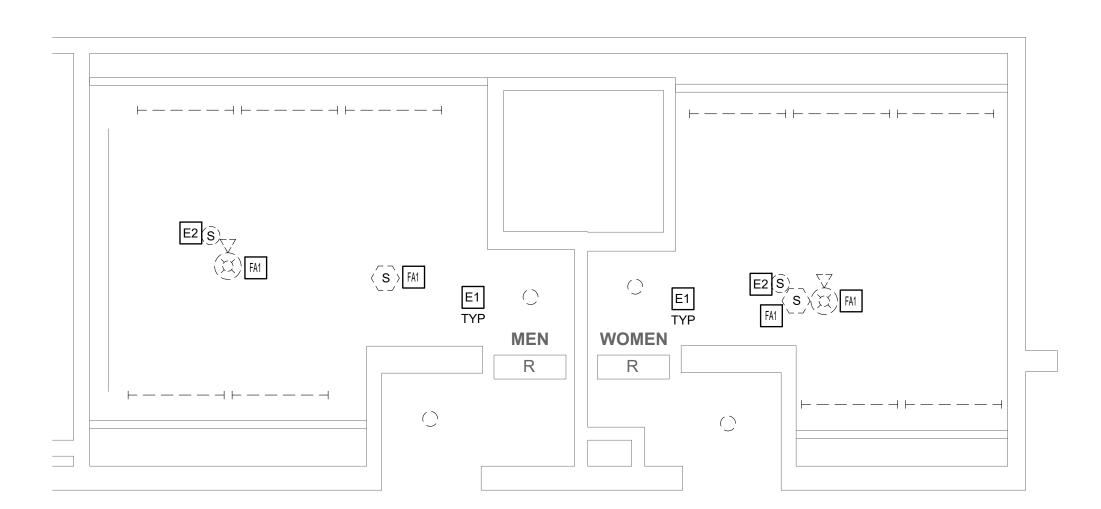
S R Arch St. Filbert St.

KEY PLAN - LEVEL 200





REFLECTED CEILING PLAN - MEN'S & WOMEN'S ROOM R



1 DEMO PLAN - MEN'S & WOMEN'S ROOM R E609 SCALE: 1/4" = 1'-0"

#### GENERAL DEMOLITION NOTES

- 1. SEE DRAWING E001 FOR GENERAL NOTES, SYMBOLS, AND
- 2. PRIOR TO THE START OF WORK, EC SHALL LOCATE ALL LIGHTING AND POWER PANEL SUPPLY CIRCUITS FOR THE WORK AREA AND RECORD PANEL AND CIRCUIT NUMBER ON RECORD DRAWINGS.
- 3. EC SHALL FIELD INVESTIGATE EXISTING LIGHT FIXTURES TO VERIFY NORMAL AND EMERGENCY FIXTURE VOLTAGES AND ENSURE NEW LIGHTING FIXTURES ARE SELECTED WITH VOLTAGES TO MATCH EXISTING.
- 4. EC SHALL REMOVE AND DISPOSE OF ALL LIGHT FIXTURES WITHIN THE WORK AREA. TAG AND PRESERVE EXISTING LIGHTING CIRCUITS FOR FUTURE RECONNECTION TO NEW LIGHTING FIXTURES.
- 5. FURNISH AND INSTALL JUNCTION BOXES WHERE REQUIRED TO CONTINUE CIRCUITS OUTSIDE OF WORK AREA.
- 6. KEYED NOTES MAY NOT APPEAR ON ALL PLAN VIEWS.

#### **DEMOLITION KEYED NOTES**

- E1 EC SHALL REMOVE AND DISPOSE OF ALL LIGHT FIXTURES WITHIN THE WORK AREA PRESERVE EXISTING LIGHTING CIRCLIFTS FOR THE WORK AREA. PRESERVE EXISTING LIGHTING CIRCUITS FOR FUTURE RECONNECTION TO NEW LIGHTING FIXTURES.
- E2 EC SHALL REMOVE AND DISPOSE OF CEILING-MOUNTED SPEAKERS. EC SHALL DISCONNECT POWER SUPPLY TO SPEAKERS AND PRESERVE FOR NEW SPEAKER INSTALLATION IN NEW LOCATION. REFER TO ARCHITECTURAL REFLECTED CEILING PLAN FOR PROPOSED LAYOUT.
- FAI EC SHALL REMOVE AND DISCONNECT FIRE ALARM DEVICES WITHIN THE DESIGNATED AREA OF WORK TO ACCOMMODATE CEILING REPLACEMENT. SUPPORT EXISTING FIRE ALARM WIRING FOR TERMINATION TO BE REINSTALLED AS INDICATED ON ARCHITECTURAL REFLECTED CEILING PLAN. CIRCUIT CONTINUITY MUST BE MAINTAINED AT ALL TIMES AS NOT TO AFFECT REMAINING DEVICES NOT INCLUDED IN THIS WORK, ALL WIRING SHALL BE TAGGED AS REQUIRED FOR REINSTALLATION OF NEW DEVICES.

#### **GENERAL NEW WORK NOTES**

- 1. SEE DRAWING E001 FOR GENERAL NOTES, SYMBOLS, AND ABBREVIATIONS.
- 2. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE LATEST ADOPTED EDITION OF THE NEC.
- 3. ALL CONDUCTORS SHALL BE CU AND THHN/THWN UNLESS OTHERWISE NOTED.
- 4. IN NO CASE SHALL A 277V, 20A/1P CIRCUIT BE LOADED TO OVER 4.432KW OR A 120V, 20A/1P CIRCUIT BE LOADED TO OVER 1.92KW. MAKE CHANGES AS REQUIRED TO ENSURE COMPLIANT LOADING ON
- 5. EC TO TRACE ALL CIRCUITS BACK TO SOURCE AND TAKE LOAD READINGS ON CIRCUITS AND PANELBOARD AS REQUIRED TO VERIFY CODE COMPLIANT LOADING AFTER PROJECT IS COMPLETE. MAKE ADJUSTMENTS AS REQUIRED. EC TO RELABEL ALL CIRCUIT DIRECTORIES FOR NEW CONFIGURATION AS REQUIRED AND PROVIDE AS-BUILTS TO CLIENT.
- BASIS OF DESIGN FOR OCCUPANCY SENSORS IS AS FOLLOWS. EC SHALL MAKE ALL NECESSARY WIRING CONNECTIONS PER MANUFACTURER'S RECOMMENDATIONS AND ADJUST FOR MAXIMUM COVERAGE IN THE FIELD. REFER TO OCCUPANCY SENSOR WIRING DIAGRAMS ON DRAWING E701 FOR MORE INFORMATION. BASIS OF DESIGN:
  - CEILING MOUNTED: HUBBELL OMNIDT200 (360°, 22' RADIUS) WALL MOUNTED: HUBBELL CONTROLS: LHMTS1-24V-WH
- 7. KEYED NOTES MAY NOT APPEAR ON ALL PLAN VIEWS.
- 8. SEE DRAWINGS E002-E004 FOR ELECTRICAL PANEL LOCATIONS.

#### **NEW WORK KEYED NOTES**

- E1 EC SHALL FURNISH AND INSTALL ALL NEW LIGHTING AS SHOWN ON THE ARCHITECTURAL DRAWINGS. MAKE CONNECTIONS TO THE EXISTING 277V LIGHTING CIRCUITS PRESERVED DURING DEMOLITION. PROVIDE ADDITIONAL WIRING AND SPLICES AS REQUIRED TO MAKE CONNECTIONS AND COORDINATE WITH LIGHTING CONTROLS AS SHOWN IN DETAIL 3/E701. MINIMUM WIRE SIZE SHALL BE #12 AWG CU.
- E2 EC SHALL CONNECT POWER SUPPLY TO NEW SPEAKERS AND INSTALL AS INDICATED ON ARCHITECTURAL REFLECTED CEILING PLAN. PROVIDE ADDITIONAL WIRING AND SPLICES AS REQUIRED TO MAKE CONNECTIONS. MINIMUM WIRE SIZE SHALL BE #12 AWG
- E3 EC SHALL FURNISH AND INSTALL CEILING MOUNTED OCCUPANCY SENSOR FOR AUTOMATIC LIGHTING CONTROL. PROVIDE SPLICES AND EXTEND EXISTING CIRCUITS AS REQUIRED TO ENSURE THE SENSOR IS COORDINATED WITH THE WALL MOUNTED SWITCH TO MEET THE DESIGN INTENT. MINIMUM WIRE SIZE SHALL BE #12 AWG
- E4 LIGHTING FIXTURE TO PROVIDE EGRESS LIGHTING. EC SHALL FURNISH AND INSTALL GENERATOR TRANSFER DEVICE AND CONNECT THE PRESERVED NORMAL LIGHTING CIRCUIT AND PRESERVED EMERGENCY CIRCUIT TO ENSURE LIGHT IS PROVIDED POWER FROM EMERGENCY CIRCUIT DURING NORMAL POWER OUTAGE. REFER TO DETAIL 6/E701 FOR MORE INFORMATION.
- (E5) LIGHTING FIXTURE TO OPERATE AS 'NIGHT LIGHT' FIXTURE AND PROVIDE EGRESS LIGHTING IN THE EVENT OF LOSS OF NORMAL POWER. EC SHALL PROVIDE POWER IN THE SPACE. PROVIDE POWER TO FIXTURE FROM THE EMERGENCY CIRCUIT AT A POINT AHEAD OF ANY SWITCHING. LIGHT TO REMAIN ON AT ALL TIMES.
- EC SHALL REPLACE IN-KIND FIRE ALARM NOTIFICATION APPLIANCE AND INITIATION DEVICES AS INDICATED ON ARCHITECTURAL REFLECTED CEILING PLAN. FURNISH AND INSTALL RECESSED BACKBOX AND CEILING TILE SUPPORT BRACKETS AS NEEDED. PROPERLY EXTEND CIRCUITING AS REQUIRED.



**MEP ENGINEERS:** 



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CSA GROUP

Contact: Wing Au e-mail: wau@csagroup.com



REVISIONS: Description Date

PENNSYLV/

REFLECTED **CEILING PLAN -ROOM R** (EXHIBIT)

Project number

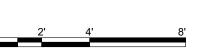
CW1615 November 25, 2019 RR,AS Drawn by Checked by

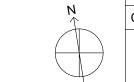
E609

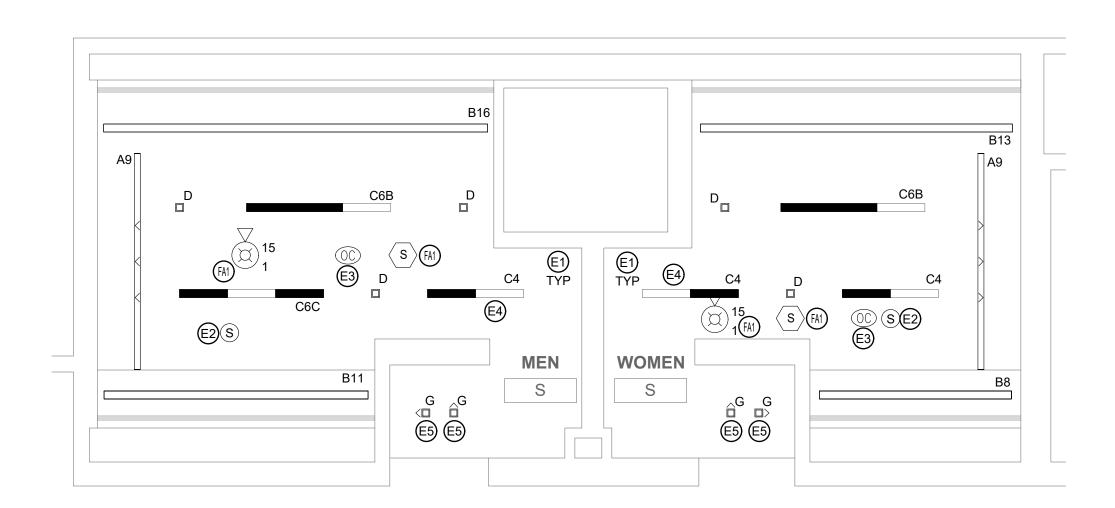
1/4" = 1'-0"

S R Arch St. Filbert St.

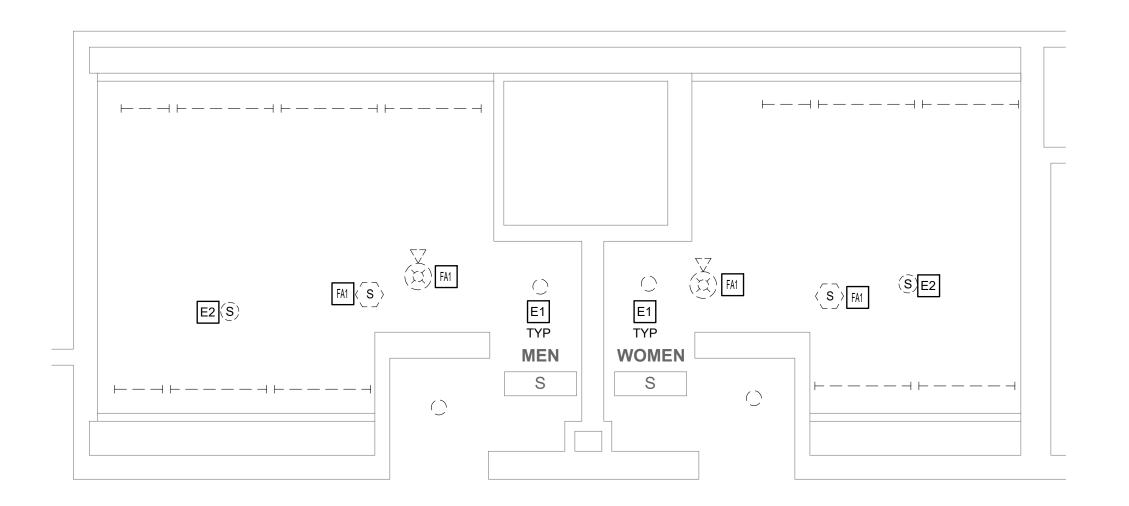
KEY PLAN - LEVEL 200







#### REFLECTED CEILING PLAN - MEN'S & WOMEN'S ROOM S E610 SCALE: 1/4" = 1'-0"



1 DEMO PLAN - MEN'S & WOMEN'S ROOM S E610 SCALE: 1/4" = 1'-0"

#### GENERAL DEMOLITION NOTES

- 1. SEE DRAWING E001 FOR GENERAL NOTES, SYMBOLS, AND
- 2. PRIOR TO THE START OF WORK, EC SHALL LOCATE ALL LIGHTING AND POWER PANEL SUPPLY CIRCUITS FOR THE WORK AREA AND RECORD PANEL AND CIRCUIT NUMBER ON RECORD DRAWINGS.
- 3. EC SHALL FIELD INVESTIGATE EXISTING LIGHT FIXTURES TO VERIFY NORMAL AND EMERGENCY FIXTURE VOLTAGES AND ENSURE NEW LIGHTING FIXTURES ARE SELECTED WITH VOLTAGES TO MATCH
- 4. EC SHALL REMOVE AND DISPOSE OF ALL LIGHT FIXTURES WITHIN THE WORK AREA. TAG AND PRESERVE EXISTING LIGHTING CIRCUITS FOR FUTURE RECONNECTION TO NEW LIGHTING FIXTURES.
- 5. FURNISH AND INSTALL JUNCTION BOXES WHERE REQUIRED TO CONTINUE CIRCUITS OUTSIDE OF WORK AREA.
- 6. KEYED NOTES MAY NOT APPEAR ON ALL PLAN VIEWS.

#### **DEMOLITION KEYED NOTES**

- E1 EC SHALL REMOVE AND DISPOSE OF ALL LIGHT FIXTURES WITHIN THE WORK AREA. PRESERVE EXISTING LIGHTING CIRCUITS FOR FUTURE RECONNECTION TO NEW LIGHTING FIXTURES.
- E2 EC SHALL REMOVE AND DISPOSE OF CEILING-MOUNTED SPEAKERS. EC SHALL DISCONNECT POWER SUPPLY TO SPEAKERS AND PRESERVE FOR NEW SPEAKER INSTALLATION IN NEW LOCATION. REFER TO ARCHITECTURAL REFLECTED CEILING PLAN FOR PROPOSED LAYOUT.
- EC SHALL REMOVE AND DISCONNECT FIRE ALARM DEVICES WITHIN THE DESIGNATED AREA OF WORK TO ACCOMMODATE CEILING REPLACEMENT. SUPPORT EXISTING FIRE ALARM WIRING FOR TERMINATION TO BE REINSTALLED AS INDICATED ON ARCHITECTURAL REFLECTED CEILING PLAN. CIRCUIT CONTINUITY MUST BE MAINTAINED AT ALL TIMES AS NOT TO AFFECT REMAINING DEVICES NOT INCLUDED IN THIS WORK. ALL WIRING SHALL BE TAGGED AS REQUIRED FOR REINSTALLATION OF NEW DEVICES.

#### **GENERAL NEW WORK NOTES**

- 1. SEE DRAWING E001 FOR GENERAL NOTES, SYMBOLS, AND
- 2. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE LATEST ADOPTED EDITION OF THE NEC.
- 3. ALL CONDUCTORS SHALL BE CU AND THHN/THWN UNLESS OTHERWISE NOTED.
- 4. IN NO CASE SHALL A 277V, 20A/1P CIRCUIT BE LOADED TO OVER 4.432KW OR A 120V, 20A/1P CIRCUIT BE LOADED TO OVER 1.92KW. MAKE CHANGES AS REQUIRED TO ENSURE COMPLIANT LOADING ON
- 5. EC TO TRACE ALL CIRCUITS BACK TO SOURCE AND TAKE LOAD READINGS ON CIRCUITS AND PANELBOARD AS REQUIRED TO VERIFY CODE COMPLIANT LOADING AFTER PROJECT IS COMPLETE. MAKE ADJUSTMENTS AS REQUIRED. EC TO RELABEL ALL CIRCUIT DIRECTORIES FOR NEW CONFIGURATION AS REQUIRED AND PROVIDE AS-BUILTS TO CLIENT.
- BASIS OF DESIGN FOR OCCUPANCY SENSORS IS AS FOLLOWS. EC SHALL MAKE ALL NECESSARY WIRING CONNECTIONS PER MANUFACTURER'S RECOMMENDATIONS AND ADJUST FOR MAXIMUM COVERAGE IN THE FIELD. REFER TO OCCUPANCY SENSOR WIRING DIAGRAMS ON DRAWING E701 FOR MORE INFORMATION.
- CEILING MOUNTED: HUBBELL OMNIDT200 (360°, 22' RADIUS) WALL MOUNTED: HUBBELL CONTROLS: LHMTS1-24V-WH
- 7. KEYED NOTES MAY NOT APPEAR ON ALL PLAN VIEWS.
- 8. SEE DRAWINGS E002-E004 FOR ELECTRICAL PANEL LOCATIONS.

#### NEW WORK KEYED NOTES

- E1 EC SHALL FURNISH AND INSTALL ALL NEW LIGHTING AS SHOWN ON THE ARCHITECTURAL DRAWINGS. MAKE CONNECTIONS TO THE EXISTING 277V LIGHTING CIRCUITS PRESERVED DURING DEMOLITION. PROVIDE ADDITIONAL WIRING AND SPLICES AS REQUIRED TO MAKE CONNECTIONS AND COORDINATE WITH LIGHTING CONTROLS AS SHOWN IN DETAIL 3/E701. MINIMUM WIRE SIZE SHALL BE #12 AWG CU.
- E2 EC SHALL CONNECT POWER SUPPLY TO NEW SPEAKERS AND INSTALL AS INDICATED ON ARCHITECTURAL REFLECTED CEILING PLAN. PROVIDE ADDITIONAL WIRING AND SPLICES AS REQUIRED TO MAKE CONNECTIONS. MINIMUM WIRE SIZE SHALL BE #12 AWG
- E3 EC SHALL FURNISH AND INSTALL CEILING MOUNTED OCCUPANCY SENSOR FOR AUTOMATIC LIGHTING CONTROL. PROVIDE SPLICES AND EXTEND EXISTING CIRCUITS AS REQUIRED TO ENSURE THE SENSOR IS COORDINATED WITH THE WALL MOUNTED SWITCH TO MEET THE DESIGN INTENT. MINIMUM WIRE SIZE SHALL BE #12 AWG
- E4 LIGHTING FIXTURE TO PROVIDE EGRESS LIGHTING. EC SHALL FURNISH AND INSTALL GENERATOR TRANSFER DEVICE AND CONNECT THE PRESERVED NORMAL LIGHTING CIRCUIT AND PRESERVED EMERGENCY CIRCUIT TO ENSURE LIGHT IS PROVIDED POWER FROM EMERGENCY CIRCUIT DURING NORMAL POWER OUTAGE. REFER TO DETAIL 6/E701 FOR MORE INFORMATION.
- (E5) LIGHTING FIXTURE TO OPERATE AS 'NIGHT LIGHT' FIXTURE AND PROVIDE EGRESS LIGHTING IN THE EVENT OF LOSS OF NORMAL POWER. EC SHALL PROVIDE POWER IN THE SPACE. PROVIDE POWER TO FIXTURE FROM THE EMERGENCY CIRCUIT AT A POINT AHEAD OF ANY SWITCHING. LIGHT TO REMAIN ON AT ALL TIMES.
- EC SHALL REPLACE IN-KIND FIRE ALARM NOTIFICATION APPLIANCE AND INITIATION DEVICES AS INDICATED ON ARCHITECTURAL REFLECTED CEILING PLAN. FURNISH AND INSTALL RECESSED BACKBOX AND CEILING TILE SUPPORT BRACKETS AS NEEDED. PROPERLY EXTEND CIRCUITING AS REQUIRED.

Arch St.

Filbert St.

KEY PLAN - LEVEL 200



**MEP ENGINEERS:** 



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Contact: Wing Au e-mail: wau@csagroup.com



REVISIONS: Description Date

PENNSYLV/

REFLECTED **CEILING PLAN -ROOM S** (EXHIBIT)

Project number November 25, 2019

RR,AS Drawn by Checked by

E610

CW1615

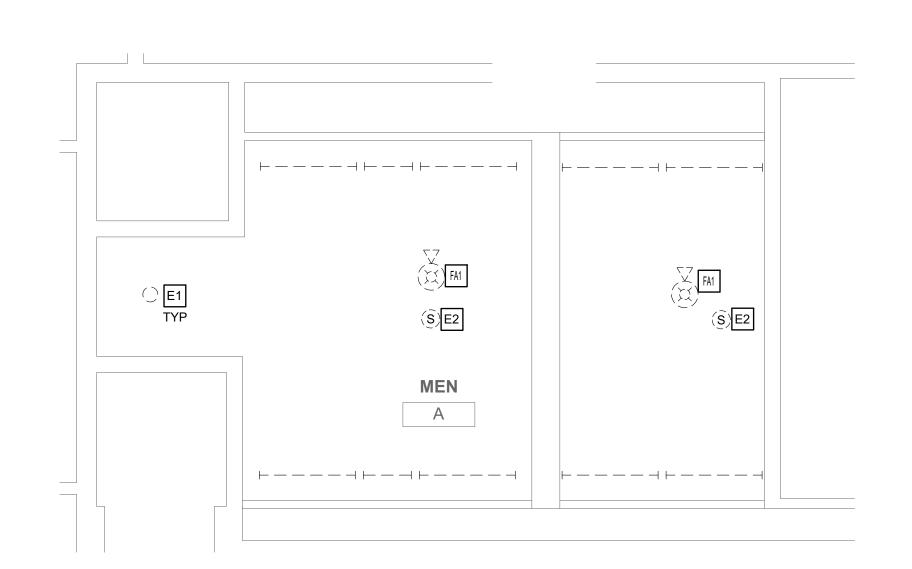
1/4" = 1'-0"

S R

# 

**A** REFLECTED CEILING PLAN - MEN'S ROOM A

E611 SCALE: 1/4" = 1'-0"



#### DEMO PLAN - MEN'S ROOM A E611 SCALE: 1/4" = 1'-0"

#### GENERAL DEMOLITION NOTES

- 1. SEE DRAWING E001 FOR GENERAL NOTES, SYMBOLS, AND
- 2. PRIOR TO THE START OF WORK, EC SHALL LOCATE ALL LIGHTING AND POWER PANEL SUPPLY CIRCUITS FOR THE WORK AREA AND RECORD PANEL AND CIRCUIT NUMBER ON RECORD DRAWINGS.
- 3. EC SHALL FIELD INVESTIGATE EXISTING LIGHT FIXTURES TO VERIFY NORMAL AND EMERGENCY FIXTURE VOLTAGES AND ENSURE NEW LIGHTING FIXTURES ARE SELECTED WITH VOLTAGES TO MATCH EXISTING.
- 4. EC SHALL REMOVE AND DISPOSE OF ALL LIGHT FIXTURES WITHIN THE WORK AREA. TAG AND PRESERVE EXISTING LIGHTING CIRCUITS FOR FUTURE RECONNECTION TO NEW LIGHTING FIXTURES.
- 5. FURNISH AND INSTALL JUNCTION BOXES WHERE REQUIRED TO CONTINUE CIRCUITS OUTSIDE OF WORK AREA.
- 6. KEYED NOTES MAY NOT APPEAR ON ALL PLAN VIEWS.

#### DEMOLITION KEYED NOTES

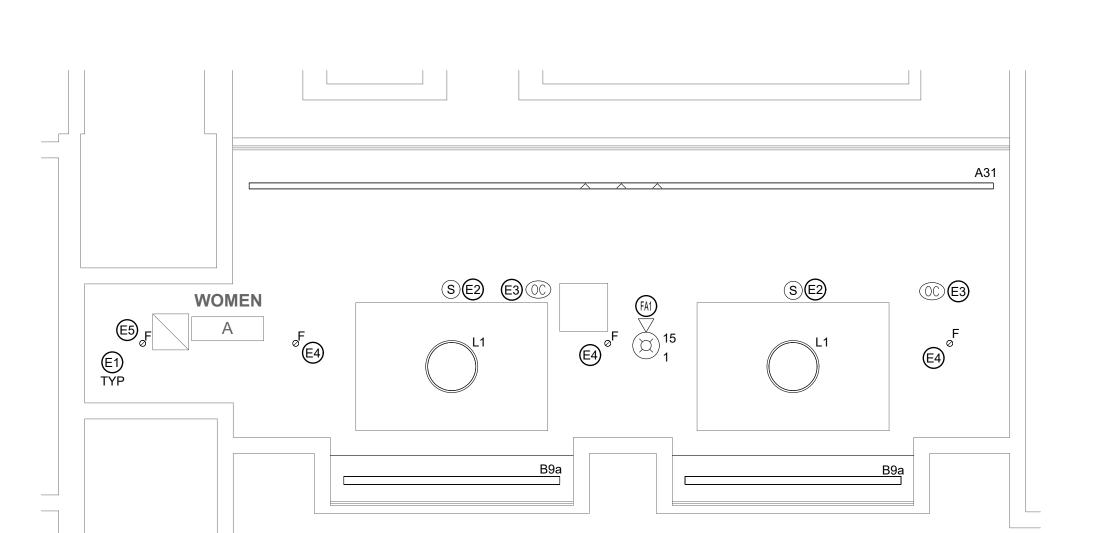
- E1 EC SHALL REMOVE AND DISPOSE OF ALL LIGHT FIXTURES WITHIN THE WORK AREA. PRESERVE EXISTING LIGHTING CIRCUITS FOR FUTURE RECONNECTION TO NEW LIGHTING FIXTURES.
- E2 EC SHALL REMOVE AND DISPOSE OF CEILING-MOUNTED SPEAKERS. EC SHALL DISCONNECT POWER SUPPLY TO SPEAKERS AND PRESERVE FOR NEW SPEAKER INSTALLATION IN NEW LOCATION. REFER TO ARCHITECTURAL REFLECTED CEILING PLAN FOR PROPOSED LAYOUT.
- EC SHALL REMOVE AND DISCONNECT FIRE ALARM DEVICES WITHIN THE DESIGNATED AREA OF WORK TO ACCOMMODATE CEILING REPLACEMENT. SUPPORT EXISTING FIRE ALARM WIRING FOR TERMINATION TO BE REINSTALLED AS INDICATED ON ARCHITECTURAL REFLECTED CEILING PLAN. CIRCUIT CONTINUITY MUST BE MAINTAINED AT ALL TIMES AS NOT TO AFFECT REMAINING DEVICES NOT INCLUDED IN THIS WORK. ALL WIRING SHALL BE TAGGED AS REQUIRED FOR REINSTALLATION OF NEW DEVICES.

#### GENERAL NEW WORK NOTES

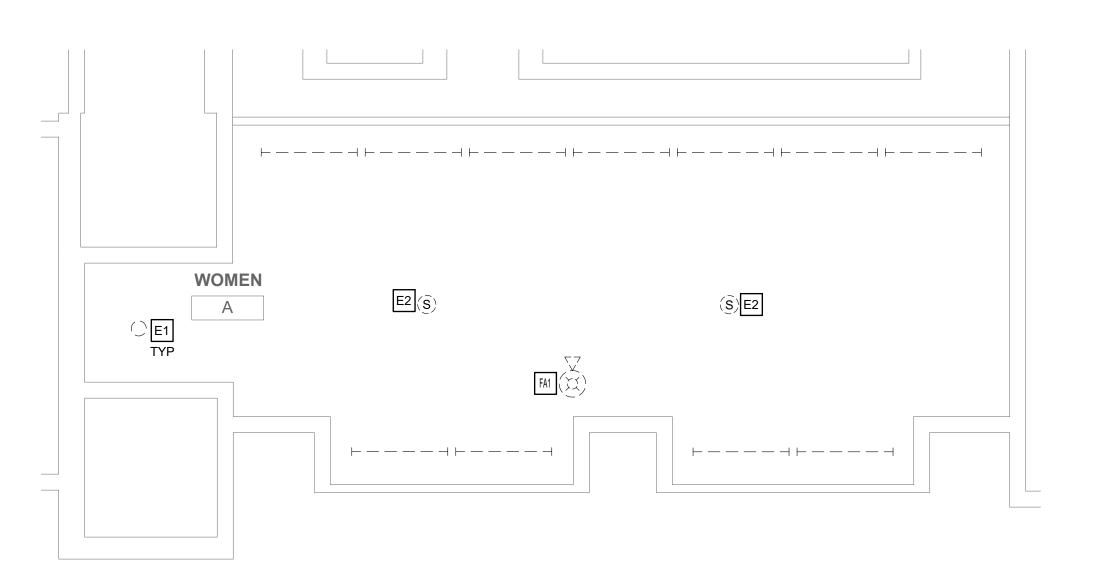
- 1. SEE DRAWING E001 FOR GENERAL NOTES, SYMBOLS, AND ABBREVIATIONS.
- 2. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE LATEST ADOPTED EDITION OF THE NEC.
- 3. ALL CONDUCTORS SHALL BE CU AND THHN/THWN UNLESS OTHERWISE NOTED.
- IN NO CASE SHALL A 277V, 20A/1P CIRCUIT BE LOADED TO OVER 4.432KW OR A 120V, 20A/1P CIRCUIT BE LOADED TO OVER 1.92KW. MAKE CHANGES AS REQUIRED TO ENSURE COMPLIANT LOADING ON BREAKERS.
- 5. EC TO TRACE ALL CIRCUITS BACK TO SOURCE AND TAKE LOAD READINGS ON CIRCUITS AND PANELBOARD AS REQUIRED TO VERIFY CODE COMPLIANT LOADING AFTER PROJECT IS COMPLETE. MAKE ADJUSTMENTS AS REQUIRED. EC TO RELABEL ALL CIRCUIT DIRECTORIES FOR NEW CONFIGURATION AS REQUIRED AND PROVIDE AS-BUILTS TO CLIENT.
- 6. BASIS OF DESIGN FOR OCCUPANCY SENSORS IS AS FOLLOWS. EC SHALL MAKE ALL NECESSARY WIRING CONNECTIONS PER MANUFACTURER'S RECOMMENDATIONS AND ADJUST FOR MAXIMUM COVERAGE IN THE FIELD. REFER TO OCCUPANCY SENSOR WIRING DIAGRAMS ON DRAWING E701 FOR MORE INFORMATION. BASIS OF DESIGN:
- CEILING MOUNTED: HUBBELL OMNIDT200 (360°, 22' RADIUS)
  WALL MOUNTED: HUBBELL CONTROLS: LHMTS1-24V-WH
- 7. KEYED NOTES MAY NOT APPEAR ON ALL PLAN VIEWS.
- 8. SEE DRAWINGS E002-E004 FOR ELECTRICAL PANEL LOCATIONS.

#### NEW WORK KEYED NOTES

- EC SHALL FURNISH AND INSTALL ALL NEW LIGHTING AS SHOWN ON THE ARCHITECTURAL DRAWINGS. MAKE CONNECTIONS TO THE EXISTING 277V LIGHTING CIRCUITS PRESERVED DURING DEMOLITION. PROVIDE ADDITIONAL WIRING AND SPLICES AS REQUIRED TO MAKE CONNECTIONS AND COORDINATE WITH LIGHTING CONTROLS AS SHOWN IN DETAIL 3/E701. MINIMUM WIRE SIZE SHALL BE #12 AWG CU.
- E2 EC SHALL CONNECT POWER SUPPLY TO NEW SPEAKERS AND INSTALL AS INDICATED ON ARCHITECTURAL REFLECTED CEILING PLAN. PROVIDE ADDITIONAL WIRING AND SPLICES AS REQUIRED TO MAKE CONNECTIONS. MINIMUM WIRE SIZE SHALL BE #12 AWG CU.
- E3 EC SHALL FURNISH AND INSTALL CEILING MOUNTED OCCUPANCY SENSOR FOR AUTOMATIC LIGHTING CONTROL. PROVIDE SPLICES AND EXTEND EXISTING CIRCUITS AS REQUIRED TO ENSURE THE SENSOR IS COORDINATED WITH THE WALL MOUNTED SWITCH TO MEET THE DESIGN INTENT. MINIMUM WIRE SIZE SHALL BE #12 AWG CI
- LIGHTING FIXTURE(S) TO PROVIDE EGRESS LIGHTING. EC SHALL FURNISH AND INSTALL GENERATOR TRANSFER DEVICE AND CONNECT THE PRESERVED NORMAL LIGHTING CIRCUIT AND PRESERVED EMERGENCY CIRCUIT TO ENSURE LIGHT IS PROVIDED POWER FROM EMERGENCY CIRCUIT DURING NORMAL POWER OUTAGE. REFER TO DETAIL 6/E701 FOR MORE INFORMATION.
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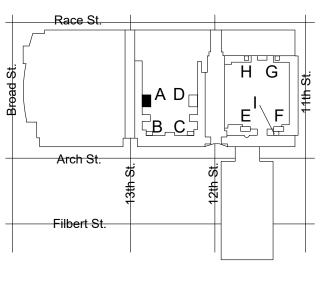


3 REFLECTED CEILING PLAN - WOMEN'S ROOM A
E611 SCALE: 1/4" = 1'-0"



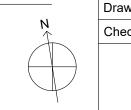
DEMO PLAN - WOMEN'S ROOM A

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



KEY PLAN - LEVEL 100

<u>' 4' 8'</u>



: CONVERSE
: WINKLER
: ARCHITECTURE
331 MONTGOMERY AVE
BALA CYNWYD, PA 19144

MEP ENGINEERS:



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STRUCTURAL ENGINEERS:

1341 NORTH DELAWARE AVENUE,

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Ph: 215.427.8700 Fax: 215.427.8752

CSA GROUP

SUITE 507

Contact: Wing Au e-mail: wau@csagroup.com



No. Description Date

PENNSYLVANIA CONVENTION CENTEF

REFLECTED CEILING PLAN -ROOM A (SEMINAR)

Project number CW1615

Date November 25, 2019

Drawn by RR,AS

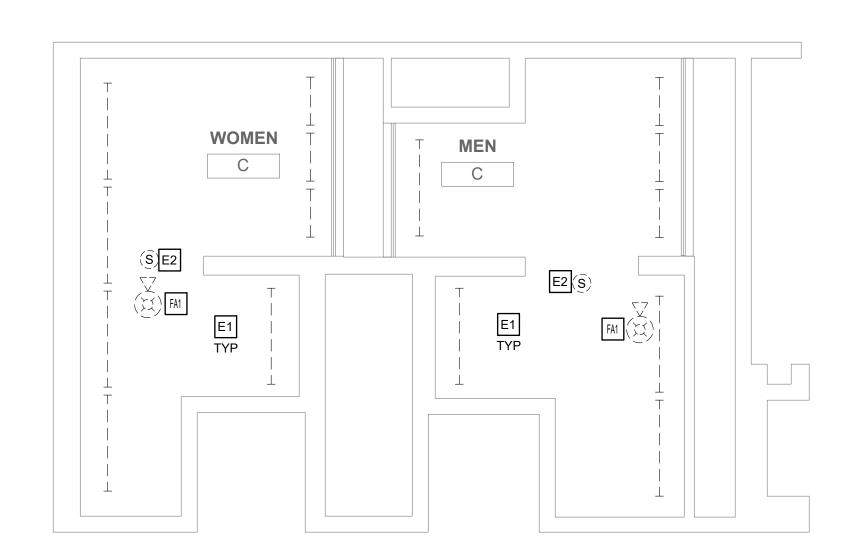
Checked by HL

E611

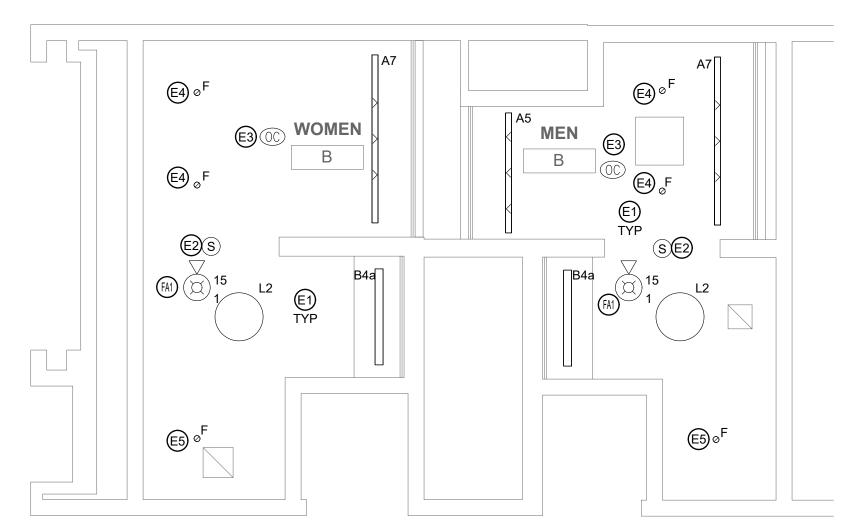
Scale 1/4" = 1'-0"

### €4 oF WOMEN €4 <sub>⊘</sub>F **E**4<sup>⊘</sup> Œ5ø

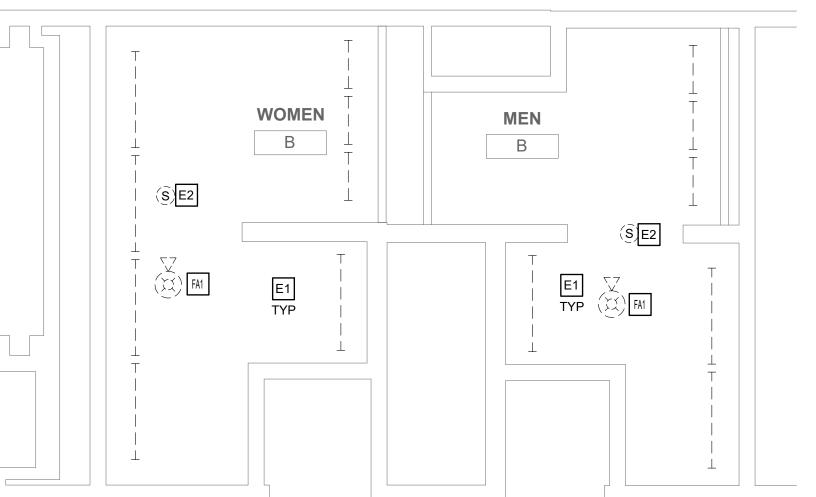




**DEMO PLAN - MEN'S & WOMEN'S ROOM C** E612 SCALE: 1/4" = 1'-0"



#### REFLECTED CEILIN PLAN - MEN'S & WOMEN'S ROOM B



E612 SCALE: 1/4" = 1'-0"

#### GENERAL DEMOLITION NOTES

- 1. SEE DRAWING E001 FOR GENERAL NOTES, SYMBOLS, AND
- 2. PRIOR TO THE START OF WORK, EC SHALL LOCATE ALL LIGHTING AND POWER PANEL SUPPLY CIRCUITS FOR THE WORK AREA AND RECORD PANEL AND CIRCUIT NUMBER ON RECORD DRAWINGS.
- 3. EC SHALL FIELD INVESTIGATE EXISTING LIGHT FIXTURES TO VERIFY NORMAL AND EMERGENCY FIXTURE VOLTAGES AND ENSURE NEW LIGHTING FIXTURES ARE SELECTED WITH VOLTAGES TO MATCH
- 4. EC SHALL REMOVE AND DISPOSE OF ALL LIGHT FIXTURES WITHIN THE WORK AREA. TAG AND PRESERVE EXISTING LIGHTING CIRCUITS FOR FUTURE RECONNECTION TO NEW LIGHTING FIXTURES.
- 5. FURNISH AND INSTALL JUNCTION BOXES WHERE REQUIRED TO CONTINUE CIRCUITS OUTSIDE OF WORK AREA.
- 6. KEYED NOTES MAY NOT APPEAR ON ALL PLAN VIEWS.

#### **DEMOLITION KEYED NOTES**

- E1 EC SHALL REMOVE AND DISPOSE OF ALL LIGHT FIXTURES WITHIN THE WORK AREA. PRESERVE EXISTING LIGHTING CIRCUITS FOR FUTURE RECONNECTION TO NEW LIGHTING FIXTURES.
- E2 EC SHALL REMOVE AND DISPOSE OF CEILING-MOUNTED SPEAKERS. EC SHALL DISCONNECT POWER SUPPLY TO SPEAKERS AND PRESERVE FOR NEW SPEAKER INSTALLATION IN NEW LOCATION. REFER TO ARCHITECTURAL REFLECTED CEILING PLAN FOR PROPOSED LAYOUT.
- EC SHALL REMOVE AND DISCONNECT FIRE ALARM DEVICES WITHIN THE DESIGNATED AREA OF WORK TO ACCOMMODATE CEILING REPLACEMENT. SUPPORT EXISTING FIRE ALARM WIRING FOR TERMINATION TO BE REINSTALLED AS INDICATED ON ARCHITECTURAL REFLECTED CEILING PLAN. CIRCUIT CONTINUITY MUST BE MAINTAINED AT ALL TIMES AS NOT TO AFFECT REMAINING DEVICES NOT INCLUDED IN THIS WORK. ALL WIRING SHALL BE TAGGED AS REQUIRED FOR REINSTALLATION OF NEW DEVICES.

#### **GENERAL NEW WORK NOTES**

- 1. SEE DRAWING E001 FOR GENERAL NOTES, SYMBOLS, AND
- 2. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE LATEST ADOPTED EDITION OF THE NEC.
- 3. ALL CONDUCTORS SHALL BE CU AND THHN/THWN UNLESS OTHERWISE NOTED.
- 4. IN NO CASE SHALL A 277V, 20A/1P CIRCUIT BE LOADED TO OVER 4.432KW OR A 120V, 20A/1P CIRCUIT BE LOADED TO OVER 1.92KW. MAKE CHANGES AS REQUIRED TO ENSURE COMPLIANT LOADING ON
- EC TO TRACE ALL CIRCUITS BACK TO SOURCE AND TAKE LOAD READINGS ON CIRCUITS AND PANELBOARD AS REQUIRED TO VERIFY CODE COMPLIANT LOADING AFTER PROJECT IS COMPLETE. MAKE ADJUSTMENTS AS REQUIRED. EC TO RELABEL ALL CIRCUIT DIRECTORIES FOR NEW CONFIGURATION AS REQUIRED AND PROVIDE AS-BUILTS TO CLIENT.
- BASIS OF DESIGN FOR OCCUPANCY SENSORS IS AS FOLLOWS. EC SHALL MAKE ALL NECESSARY WIRING CONNECTIONS PER MANUFACTURER'S RECOMMENDATIONS AND ADJUST FOR MAXIMUM COVERAGE IN THE FIELD. REFER TO OCCUPANCY SENSOR WIRING DIAGRAMS ON DRAWING E701 FOR MORE INFORMATION.
- CEILING MOUNTED: HUBBELL OMNIDT200 (360°, 22' RADIUS) WALL MOUNTED: HUBBELL CONTROLS: LHMTS1-24V-WH
- 7. KEYED NOTES MAY NOT APPEAR ON ALL PLAN VIEWS.
- 8. SEE DRAWINGS E002-E004 FOR ELECTRICAL PANEL LOCATIONS.

#### NEW WORK KEYED NOTES

- E1 EC SHALL FURNISH AND INSTALL ALL NEW LIGHTING AS SHOWN ON THE ARCHITECTURAL DRAWINGS. MAKE CONNECTIONS TO THE EXISTING 277V LIGHTING CIRCUITS PRESERVED DURING DEMOLITION. PROVIDE ADDITIONAL WIRING AND SPLICES AS REQUIRED TO MAKE CONNECTIONS AND COORDINATE WITH LIGHTING CONTROLS AS SHOWN IN DETAIL 3/E701. MINIMUM WIRE SIZE SHALL BE #12 AWG CU.
- EC SHALL CONNECT POWER SUPPLY TO NEW SPEAKERS AND INSTALL AS INDICATED ON ARCHITECTURAL REFLECTED CEILING PLAN. PROVIDE ADDITIONAL WIRING AND SPLICES AS REQUIRED TO MAKE CONNECTIONS. MINIMUM WIRE SIZE SHALL BE #12 AWG
- E3 EC SHALL FURNISH AND INSTALL CEILING MOUNTED OCCUPANCY SENSOR FOR AUTOMATIC LIGHTING CONTROL. PROVIDE SPLICES AND EXTEND EXISTING CIRCUITS AS REQUIRED TO ENSURE THE SENSOR IS COORDINATED WITH THE WALL MOUNTED SWITCH TO MEET THE DESIGN INTENT. MINIMUM WIRE SIZE SHALL BE #12 AWG
- E4 LIGHTING FIXTURE TO PROVIDE EGRESS LIGHTING. EC SHALL FURNISH AND INSTALL GENERATOR TRANSFER DEVICE AND CONNECT THE PRESERVED NORMAL LIGHTING CIRCUIT AND PRESERVED EMERGENCY CIRCUIT TO ENSURE LIGHT IS PROVIDED POWER FROM EMERGENCY CIRCUIT DURING NORMAL POWER OUTAGE. REFER TO DETAIL 6/E701 FOR MORE INFORMATION.
- LIGHTING FIXTURE TO OPERATE AS 'NIGHT LIGHT' FIXTURE AND PROVIDE EGRESS LIGHTING IN THE EVENT OF LOSS OF NORMAL POWER. EC SHALL PROVIDE POWER IN THE SPACE. PROVIDE POWER TO FIXTURE FROM THE EMERGENCY CIRCUIT AT A POINT AHEAD OF ANY SWITCHING. LIGHT TO REMAIN ON AT ALL TIMES.
- FAI EC SHALL REPLACE IN-KIND FIRE ALARM NOTIFICATION APPLIANCE AND INITIATION DEVICES AS INDICATED ON ARCHITECTURAL REFLECTED CEILING PLAN. FURNISH AND INSTALL RECESSED BACKBOX AND CEILING TILE SUPPORT BRACKETS AS NEEDED. PROPERLY EXTEND CIRCUITING AS REQUIRED.

Arch St.

KEY PLAN - LEVEL 100



**MEP ENGINEERS:** 



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Ph: 215.427.8700 Fax: 215.427.8752

CSA GROUP

Contact: Wing Au e-mail: wau@csagroup.com



REVISIONS:

Description Date

PENNSYLVANIA CONVENTION CENTER

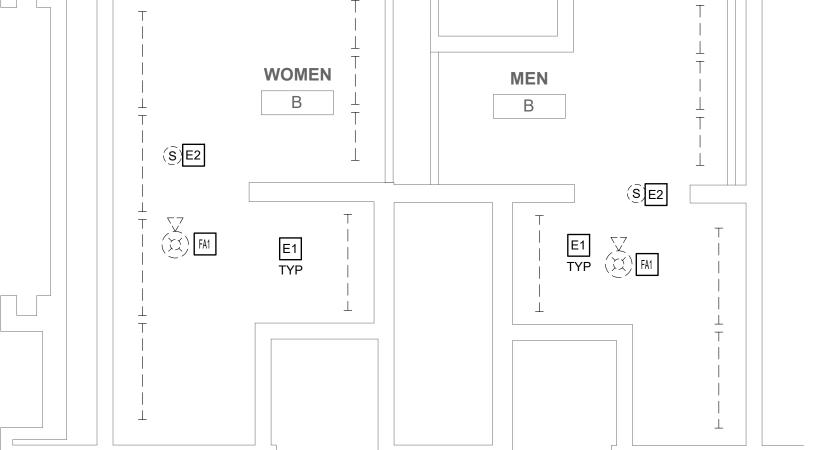
REFLECTED **CEILING PLAN -**ROOMS B, C (SEMINAR)

CW1615 Project number

November 25, 2019 RR,AS Drawn by Checked by

E612

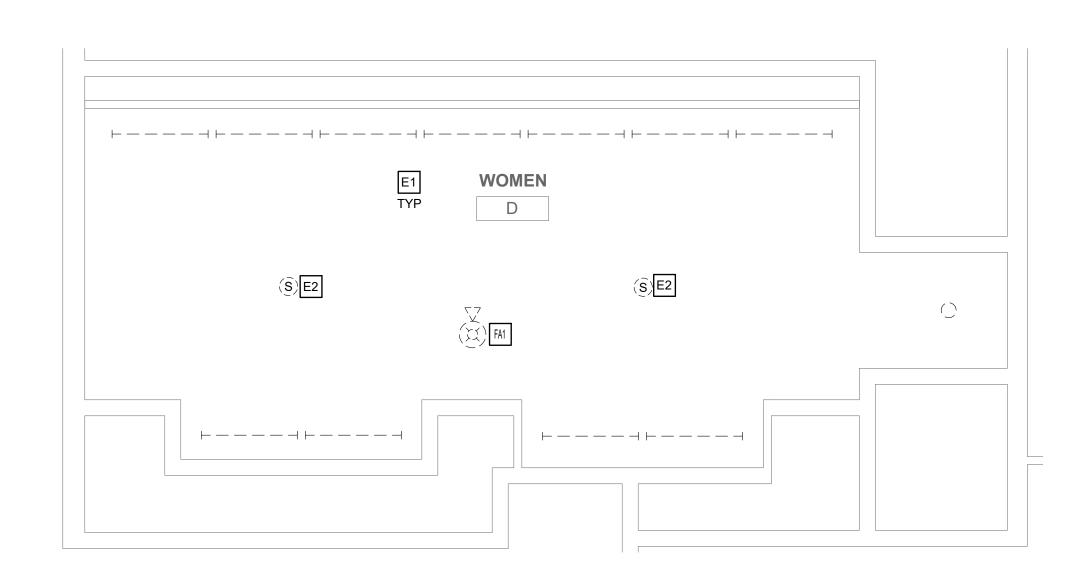
1/4" = 1'-0"



1 DEMO PLAN - MEN'S & WOMEN'S ROOM B

# WOMEN D **E3**(0)

#### 4 REFLECTED CEILING PLAN - WOMEN'S ROOM D E613 SCALE: 1/4" = 1'-0"



**DEMO PLAN - WOMEN'S ROOM D** E613 SCALE: 1/4" = 1'-0"

#### GENERAL DEMOLITION NOTES

- 1. SEE DRAWING E001 FOR GENERAL NOTES, SYMBOLS, AND ABBREVIATIONS.
- 2. PRIOR TO THE START OF WORK, EC SHALL LOCATE ALL LIGHTING AND POWER PANEL SUPPLY CIRCUITS FOR THE WORK AREA AND RECORD PANEL AND CIRCUIT NUMBER ON RECORD DRAWINGS.
- 3. EC SHALL FIELD INVESTIGATE EXISTING LIGHT FIXTURES TO VERIFY NORMAL AND EMERGENCY FIXTURE VOLTAGES AND ENSURE NEW LIGHTING FIXTURES ARE SELECTED WITH VOLTAGES TO MATCH EXISTING.
- 4. EC SHALL REMOVE AND DISPOSE OF ALL LIGHT FIXTURES WITHIN THE WORK AREA. TAG AND PRESERVE EXISTING LIGHTING CIRCUITS FOR FUTURE RECONNECTION TO NEW LIGHTING FIXTURES.
- 5. FURNISH AND INSTALL JUNCTION BOXES WHERE REQUIRED TO CONTINUE CIRCUITS OUTSIDE OF WORK AREA.
- 6. KEYED NOTES MAY NOT APPEAR ON ALL PLAN VIEWS.

E1 TYP

D

E613 SCALE: 1/4" = 1'-0"

#### **DEMOLITION KEYED NOTES**

- E1 EC SHALL REMOVE AND DISPOSE OF ALL LIGHT FIXTURES WITHIN THE WORK AREA. PRESERVE EXISTING LIGHTING CIRCUITS FOR FUTURE RECONNECTION TO NEW LIGHTING FIXTURES.
- E2 EC SHALL REMOVE AND DISPOSE OF CEILING-MOUNTED SPEAKERS. EC SHALL DISCONNECT POWER SUPPLY TO SPEAKERS AND PRESERVE FOR NEW SPEAKER INSTALLATION IN NEW LOCATION. REFER TO ARCHITECTURAL REFLECTED CEILING PLAN FOR PROPOSED LAYOUT.
- THE DESIGNATED AREA OF WORK TO ACCOMMODATE CEILING REPLACEMENT. SUPPORT EXISTING FIRE ALARM WIRING FOR TERMINATION TO BE REINSTALLED AS INDICATED ON ARCHITECTURAL REFLECTED CEILING PLAN. CIRCUIT CONTINUITY MUST BE MAINTAINED AT ALL TIMES AS NOT TO AFFECT REMAINING DEVICES NOT INCLUDED IN THIS WORK. ALL WIRING SHALL BE TAGGED AS REQUIRED FOR REINSTALLATION OF NEW DEVICES.

#### **GENERAL NEW WORK NOTES**

- 1. SEE DRAWING E001 FOR GENERAL NOTES, SYMBOLS, AND ABBREVIATIONS.
- 2. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE LATEST ADOPTED EDITION OF THE NEC.
- 3. ALL CONDUCTORS SHALL BE CU AND THHN/THWN UNLESS OTHERWISE NOTED.
- 4. IN NO CASE SHALL A 277V, 20A/1P CIRCUIT BE LOADED TO OVER 4.432KW OR A 120V, 20A/1P CIRCUIT BE LOADED TO OVER 1.92KW. MAKE CHANGES AS REQUIRED TO ENSURE COMPLIANT LOADING ON
- EC TO TRACE ALL CIRCUITS BACK TO SOURCE AND TAKE LOAD READINGS ON CIRCUITS AND PANELBOARD AS REQUIRED TO VERIFY CODE COMPLIANT LOADING AFTER PROJECT IS COMPLETE. MAKE ADJUSTMENTS AS REQUIRED. EC TO RELABEL ALL CIRCUIT DIRECTORIES FOR NEW CONFIGURATION AS REQUIRED AND PROVIDE AS-BUILTS TO CLIENT.
- BASIS OF DESIGN FOR OCCUPANCY SENSORS IS AS FOLLOWS. EC SHALL MAKE ALL NECESSARY WIRING CONNECTIONS PER MANUFACTURER'S RECOMMENDATIONS AND ADJUST FOR MAXIMUM COVERAGE IN THE FIELD. REFER TO OCCUPANCY SENSOR WIRING DIAGRAMS ON DRAWING E701 FOR MORE INFORMATION.
- CEILING MOUNTED: HUBBELL OMNIDT200 (360°, 22' RADIUS) WALL MOUNTED: HUBBELL CONTROLS: LHMTS1-24V-WH
- 7. KEYED NOTES MAY NOT APPEAR ON ALL PLAN VIEWS.
- 8. SEE DRAWINGS E002-E004 FOR ELECTRICAL PANEL LOCATIONS.

#### **NEW WORK KEYED NOTES**

- E1 EC SHALL FURNISH AND INSTALL ALL NEW LIGHTING AS SHOWN ON THE ARCHITECTURAL DRAWINGS. MAKE CONNECTIONS TO THE EXISTING 277V LIGHTING CIRCUITS PRESERVED DURING DEMOLITION. PROVIDE ADDITIONAL WIRING AND SPLICES AS REQUIRED TO MAKE CONNECTIONS AND COORDINATE WITH LIGHTING CONTROLS AS SHOWN IN DETAIL 3/E701. MINIMUM WIRE SIZE SHALL BE #12 AWG CU.
- E2 EC SHALL CONNECT POWER SUPPLY TO NEW SPEAKERS AND INSTALL AS INDICATED ON ARCHITECTURAL REFLECTED CEILING PLAN. PROVIDE ADDITIONAL WIRING AND SPLICES AS REQUIRED TO MAKE CONNECTIONS. MINIMUM WIRE SIZE SHALL BE #12 AWG
- E3 EC SHALL FURNISH AND INSTALL CEILING MOUNTED OCCUPANCY SENSOR FOR AUTOMATIC LIGHTING CONTROL. PROVIDE SPLICES AND EXTEND EXISTING CIRCUITS AS REQUIRED TO ENSURE THE SENSOR IS COORDINATED WITH THE WALL MOUNTED SWITCH TO MEET THE DESIGN INTENT. MINIMUM WIRE SIZE SHALL BE #12 AWG
- E4 LIGHTING FIXTURE TO PROVIDE EGRESS LIGHTING. EC SHALL FURNISH AND INSTALL GENERATOR TRANSFER DEVICE AND CONNECT THE PRESERVED NORMAL LIGHTING CIRCUIT AND PRESERVED EMERGENCY CIRCUIT TO ENSURE LIGHT IS PROVIDED POWER FROM EMERGENCY CIRCUIT DURING NORMAL POWER OUTAGE. REFER TO DETAIL 6/E701 FOR MORE INFORMATION.
- LIGHTING FIXTURE TO OPERATE AS 'NIGHT LIGHT' FIXTURE AND PROVIDE EGRESS LIGHTING IN THE EVENT OF LOSS OF NORMAL POWER. EC SHALL PROVIDE POWER IN THE SPACE. PROVIDE POWER TO FIXTURE FROM THE EMERGENCY CIRCUIT AT A POINT AHEAD OF ANY SWITCHING. LIGHT TO REMAIN ON AT ALL TIMES.
- FAI EC SHALL REPLACE IN-KIND FIRE ALARM NOTIFICATION APPLIANCE AND INITIATION DEVICES AS INDICATED ON ARCHITECTURAL REFLECTED CEILING PLAN. FURNISH AND INSTALL RECESSED BACKBOX AND CEILING TILE SUPPORT BRACKETS AS NEEDED. PROPERLY EXTEND CIRCUITING AS REQUIRED.

Arch St.

KEY PLAN - LEVEL 100



CONVERSE

ARCHITECTURE 331 MONTGOMERY AVE BALA CYNWYD, PA 19144

**ARORA**°

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SUITE 507

STRUCTURAL ENGINEERS:

PHILADELPHIA, PA 19125

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REVISIONS:			
No.	Description	Date	

CONVENTION C

#### REFLECTED **CEILING PLAN -**ROOM D (SEMINAR)

CW1615 Project number November 25, 2019 RR,AS Drawn by Checked by

E613

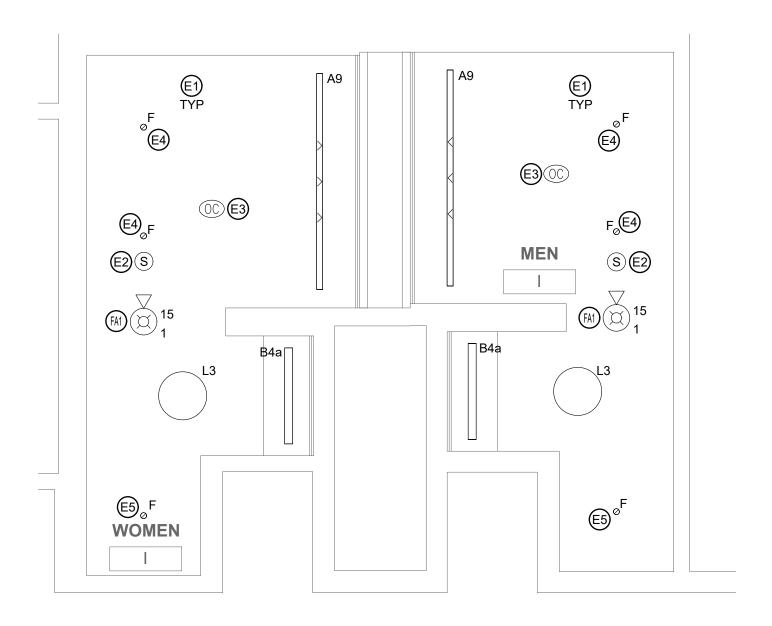
1/4" = 1'-0"

NTS

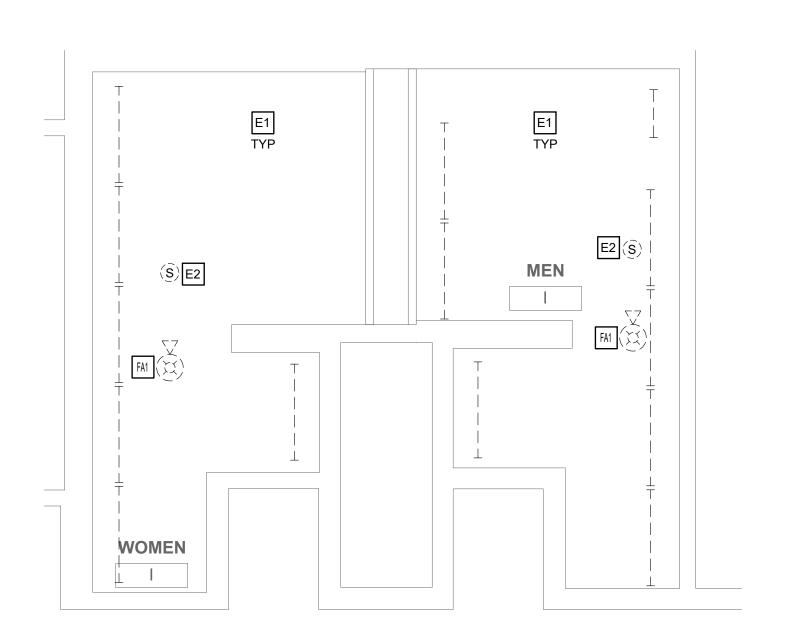
REFLECTED CEILING PLAN - MEN'S ROOM D

# -----E1 TYP D





#### 1 REFLECTED CEILING PLAN - MEN'S & WOMEN'S ROOM I



DEMO PLAN - MEN'S & WOMEN'S ROOM I

E614 SCALE: 1/4" = 1'-0"

#### **GENERAL DEMOLITION NOTES**

- 1. SEE DRAWING E001 FOR GENERAL NOTES, SYMBOLS, AND ABBREVIATIONS.
- 2. PRIOR TO THE START OF WORK, EC SHALL LOCATE ALL LIGHTING AND POWER PANEL SUPPLY CIRCUITS FOR THE WORK AREA AND RECORD PANEL AND CIRCUIT NUMBER ON RECORD DRAWINGS.
- 3. EC SHALL FIELD INVESTIGATE EXISTING LIGHT FIXTURES TO VERIFY NORMAL AND EMERGENCY FIXTURE VOLTAGES AND ENSURE NEW LIGHTING FIXTURES ARE SELECTED WITH VOLTAGES TO MATCH EXISTING.
- 4. EC SHALL REMOVE AND DISPOSE OF ALL LIGHT FIXTURES WITHIN THE WORK AREA. TAG AND PRESERVE EXISTING LIGHTING CIRCUITS FOR FUTURE RECONNECTION TO NEW LIGHTING FIXTURES.
- 5. FURNISH AND INSTALL JUNCTION BOXES WHERE REQUIRED TO CONTINUE CIRCUITS OUTSIDE OF WORK AREA.
- 6. KEYED NOTES MAY NOT APPEAR ON ALL PLAN VIEWS.

#### **DEMOLITION KEYED NOTES**

- E1 EC SHALL REMOVE AND DISPOSE OF ALL LIGHT FIXTURES WITHIN THE WORK AREA. PRESERVE EXISTING LIGHTING CIRCUITS FOR FUTURE RECONNECTION TO NEW LIGHTING FIXTURES.
- E2 EC SHALL REMOVE AND DISPOSE OF CEILING-MOUNTED SPEAKERS. EC SHALL DISCONNECT POWER SUPPLY TO SPEAKERS AND PRESERVE FOR NEW SPEAKER INSTALLATION IN NEW LOCATION. REFER TO ARCHITECTURAL REFLECTED CEILING PLAN FOR PROPOSED LAYOUT.
- EC SHALL REMOVE AND DISCONNECT FIRE ALARM DEVICES WITHIN THE DESIGNATED AREA OF WORK TO ACCOMMODATE CEILING REPLACEMENT. SUPPORT EXISTING FIRE ALARM WIRING FOR TERMINATION TO BE REINSTALLED AS INDICATED ON ARCHITECTURAL REFLECTED CEILING PLAN. CIRCUIT CONTINUITY MUST BE MAINTAINED AT ALL TIMES AS NOT TO AFFECT REMAINING DEVICES NOT INCLUDED IN THIS WORK. ALL WIRING SHALL BE TAGGED AS REQUIRED FOR REINSTALLATION OF NEW DEVICES.

#### **GENERAL NEW WORK NOTES**

- 1. SEE DRAWING E001 FOR GENERAL NOTES, SYMBOLS, AND ABBREVIATIONS.
- 2. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE LATEST ADOPTED EDITION OF THE NEC.
- 3. ALL CONDUCTORS SHALL BE CU AND THHN/THWN UNLESS OTHERWISE NOTED.
- IN NO CASE SHALL A 277V, 20A/1P CIRCUIT BE LOADED TO OVER 4.432KW OR A 120V, 20A/1P CIRCUIT BE LOADED TO OVER 1.92KW. MAKE CHANGES AS REQUIRED TO ENSURE COMPLIANT LOADING ON BREAKERS.
- 5. EC TO TRACE ALL CIRCUITS BACK TO SOURCE AND TAKE LOAD READINGS ON CIRCUITS AND PANELBOARD AS REQUIRED TO VERIFY CODE COMPLIANT LOADING AFTER PROJECT IS COMPLETE. MAKE ADJUSTMENTS AS REQUIRED. EC TO RELABEL ALL CIRCUIT DIRECTORIES FOR NEW CONFIGURATION AS REQUIRED AND PROVIDE AS-BUILTS TO CLIENT.
- 6. BASIS OF DESIGN FOR OCCUPANCY SENSORS IS AS FOLLOWS. EC SHALL MAKE ALL NECESSARY WIRING CONNECTIONS PER MANUFACTURER'S RECOMMENDATIONS AND ADJUST FOR MAXIMUM COVERAGE IN THE FIELD. REFER TO OCCUPANCY SENSOR WIRING DIAGRAMS ON DRAWING E701 FOR MORE INFORMATION. BASIS OF DESIGN:
- CEILING MOUNTED: HUBBELL OMNIDT200 (360°, 22' RADIUS)
  WALL MOUNTED: HUBBELL CONTROLS: LHMTS1-24V-WH
- 7. KEYED NOTES MAY NOT APPEAR ON ALL PLAN VIEWS.
- 8. SEE DRAWINGS E002-E004 FOR ELECTRICAL PANEL LOCATIONS.

#### **NEW WORK KEYED NOTES**

- EC SHALL FURNISH AND INSTALL ALL NEW LIGHTING AS SHOWN ON THE ARCHITECTURAL DRAWINGS. MAKE CONNECTIONS TO THE EXISTING 277V LIGHTING CIRCUITS PRESERVED DURING DEMOLITION. PROVIDE ADDITIONAL WIRING AND SPLICES AS REQUIRED TO MAKE CONNECTIONS AND COORDINATE WITH LIGHTING CONTROLS AS SHOWN IN DETAIL 3/E701. MINIMUM WIRE SIZE SHALL BE #12 AWG CU.
- EC SHALL CONNECT POWER SUPPLY TO NEW SPEAKERS AND INSTALL AS INDICATED ON ARCHITECTURAL REFLECTED CEILING PLAN. PROVIDE ADDITIONAL WIRING AND SPLICES AS REQUIRED TO MAKE CONNECTIONS. MINIMUM WIRE SIZE SHALL BE #12 AWG CU.
- E3 EC SHALL FURNISH AND INSTALL CEILING MOUNTED OCCUPANCY SENSOR FOR AUTOMATIC LIGHTING CONTROL. PROVIDE SPLICES AND EXTEND EXISTING CIRCUITS AS REQUIRED TO ENSURE THE SENSOR IS COORDINATED WITH THE WALL MOUNTED SWITCH TO MEET THE DESIGN INTENT. MINIMUM WIRE SIZE SHALL BE #12 AWG
- LIGHTING FIXTURE TO PROVIDE EGRESS LIGHTING. EC SHALL FURNISH AND INSTALL GENERATOR TRANSFER DEVICE AND CONNECT THE PRESERVED NORMAL LIGHTING CIRCUIT AND PRESERVED EMERGENCY CIRCUIT TO ENSURE LIGHT IS PROVIDED POWER FROM EMERGENCY CIRCUIT DURING NORMAL POWER OUTAGE. REFER TO DETAIL 6/E701 FOR MORE INFORMATION.
- LIGHTING FIXTURE TO OPERATE AS 'NIGHT LIGHT' FIXTURE AND PROVIDE EGRESS LIGHTING IN THE EVENT OF LOSS OF NORMAL POWER. EC SHALL PROVIDE POWER IN THE SPACE. PROVIDE POWER TO FIXTURE FROM THE EMERGENCY CIRCUIT AT A POINT AHEAD OF ANY SWITCHING. LIGHT TO REMAIN ON AT ALL TIMES.
- EC SHALL REPLACE IN-KIND FIRE ALARM NOTIFICATION APPLIANCE AND INITIATION DEVICES AS INDICATED ON ARCHITECTURAL REFLECTED CEILING PLAN. FURNISH AND INSTALL RECESSED BACKBOX AND CEILING TILE SUPPORT BRACKETS AS NEEDED. PROPERLY EXTEND CIRCUITING AS REQUIRED.



MEP ENGINEERS:



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Contact: Kevin Sultanik

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PHILADELPHIA, PA 19125

Ph: 215.427.8700 Fax: 215.427.8752

Contact: Wing Au e-mail: wau@csagroup.com



No. Description Date

PENNSYLVANIA ONVENTION CENTER

#### REFLECTED CEILING PLAN -ROOM I (SEMINAR)

Project number CW1615

Date November 25, 2019

Drawn by RR,AS

E614

cale 1/4" = 1'-0"

Race St.

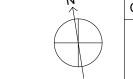
H G
B C

Arch St.

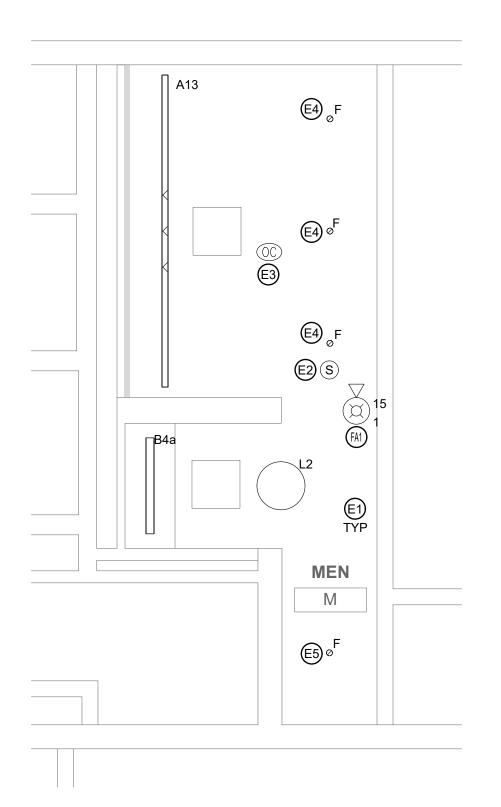
Filbert St.

KEY PLAN - LEVEL 100

0 2' 4' 8'

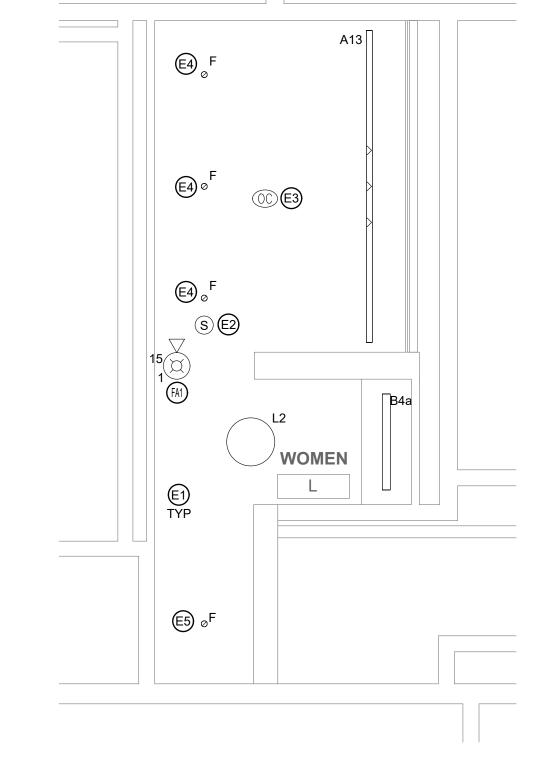


NTS

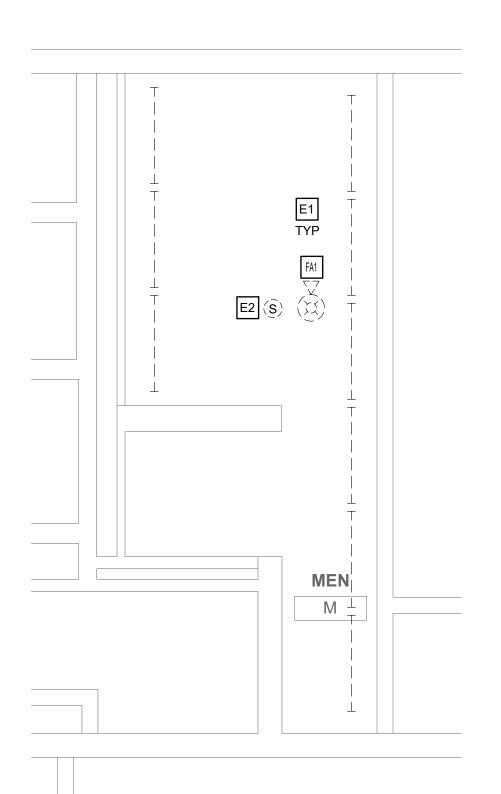


(4) REFLECTED CEILING PLAN - MEN'S ROOM M

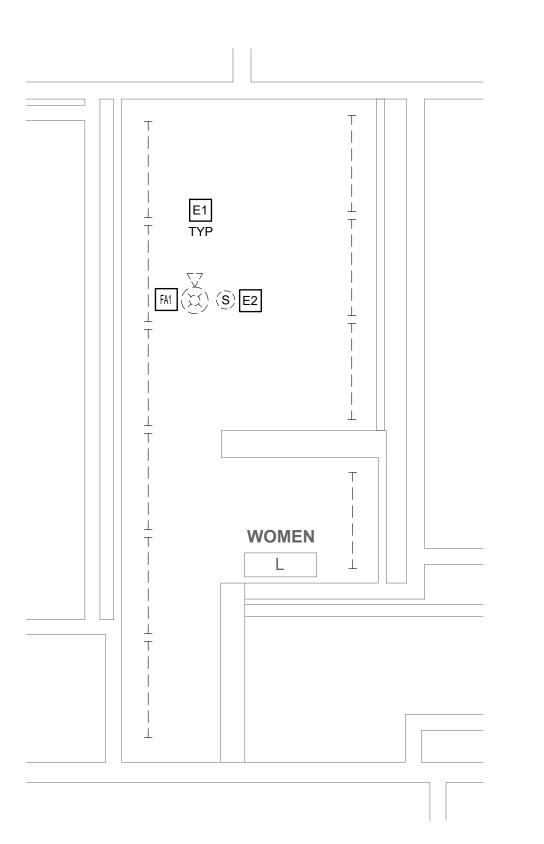
E615 SCALE: 1/4" = 1'-0"



(3) REFLECTED CEILING PLAN - WOMEN'S ROOM L E615 SCALE: 1/4" = 1'-0"







1 DEMO PLAN - WOMEN'S ROOM L E615 SCALE: 1/4" = 1'-0"

#### **GENERAL DEMOLITION NOTES**

- 1. SEE DRAWING E001 FOR GENERAL NOTES, SYMBOLS, AND
- 2. PRIOR TO THE START OF WORK, EC SHALL LOCATE ALL LIGHTING AND POWER PANEL SUPPLY CIRCUITS FOR THE WORK AREA AND RECORD PANEL AND CIRCUIT NUMBER ON RECORD DRAWINGS.
- 3. EC SHALL FIELD INVESTIGATE EXISTING LIGHT FIXTURES TO VERIFY NORMAL AND EMERGENCY FIXTURE VOLTAGES AND ENSURE NEW LIGHTING FIXTURES ARE SELECTED WITH VOLTAGES TO MATCH EXISTING.
- 4. EC SHALL REMOVE AND DISPOSE OF ALL LIGHT FIXTURES WITHIN THE WORK AREA. TAG AND PRESERVE EXISTING LIGHTING CIRCUITS FOR FUTURE RECONNECTION TO NEW LIGHTING FIXTURES.
- 5. FURNISH AND INSTALL JUNCTION BOXES WHERE REQUIRED TO CONTINUE CIRCUITS OUTSIDE OF WORK AREA.
- 6. KEYED NOTES MAY NOT APPEAR ON ALL PLAN VIEWS.

#### DEMOLITION KEYED NOTES

- E1 EC SHALL REMOVE AND DISPOSE OF ALL LIGHT FIXTURES WITHIN THE WORK AREA PRESERVE EXISTING LIGHTING CIRCLITS FOR THE WORK AREA. PRESERVE EXISTING LIGHTING CIRCUITS FOR FUTURE RECONNECTION TO NEW LIGHTING FIXTURES.
- E2 EC SHALL REMOVE AND DISPOSE OF CEILING-MOUNTED SPEAKERS. EC SHALL DISCONNECT POWER SUPPLY TO SPEAKERS AND PRESERVE FOR NEW SPEAKER INSTALLATION IN NEW LOCATION. REFER TO ARCHITECTURAL REFLECTED CEILING PLAN FOR PROPOSED LAYOUT.
- FAI EC SHALL REMOVE AND DISCONNECT FIRE ALARM DEVICES WITHIN THE DESIGNATED AREA OF WORK TO ACCOMMODATE CEILING REPLACEMENT. SUPPORT EXISTING FIRE ALARM WIRING FOR TERMINATION TO BE REINSTALLED AS INDICATED ON ARCHITECTURAL REFLECTED CEILING PLAN. CIRCUIT CONTINUITY MUST BE MAINTAINED AT ALL TIMES AS NOT TO AFFECT REMAINING DEVICES NOT INCLUDED IN THIS WORK. ALL WIRING SHALL BE TAGGED AS REQUIRED FOR REINSTALLATION OF NEW DEVICES.

#### **GENERAL NEW WORK NOTES**

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- 4. IN NO CASE SHALL A 277V, 20A/1P CIRCUIT BE LOADED TO OVER 4.432KW OR A 120V, 20A/1P CIRCUIT BE LOADED TO OVER 1.92KW. MAKE CHANGES AS REQUIRED TO ENSURE COMPLIANT LOADING ON
- 5. EC TO TRACE ALL CIRCUITS BACK TO SOURCE AND TAKE LOAD READINGS ON CIRCUITS AND PANELBOARD AS REQUIRED TO VERIFY CODE COMPLIANT LOADING AFTER PROJECT IS COMPLETE. MAKE ADJUSTMENTS AS REQUIRED. EC TO RELABEL ALL CIRCUIT DIRECTORIES FOR NEW CONFIGURATION AS REQUIRED AND PROVIDE AS-BUILTS TO CLIENT.
- BASIS OF DESIGN FOR OCCUPANCY SENSORS IS AS FOLLOWS. EC SHALL MAKE ALL NECESSARY WIRING CONNECTIONS PER MANUFACTURER'S RECOMMENDATIONS AND ADJUST FOR MAXIMUM COVERAGE IN THE FIELD. REFER TO OCCUPANCY SENSOR WIRING DIAGRAMS ON DRAWING E701 FOR MORE INFORMATION. BASIS OF DESIGN:
- CEILING MOUNTED: HUBBELL OMNIDT200 (360°, 22' RADIUS) WALL MOUNTED: HUBBELL CONTROLS: LHMTS1-24V-WH
- 7. KEYED NOTES MAY NOT APPEAR ON ALL PLAN VIEWS.
- 8. SEE DRAWINGS E002-E004 FOR ELECTRICAL PANEL LOCATIONS.

#### NEW WORK KEYED NOTES

- E1 EC SHALL FURNISH AND INSTALL ALL NEW LIGHTING AS SHOWN ON THE ARCHITECTURAL DRAWINGS. MAKE CONNECTIONS TO THE EXISTING 277V LIGHTING CIRCUITS PRESERVED DURING DEMOLITION. PROVIDE ADDITIONAL WIRING AND SPLICES AS REQUIRED TO MAKE CONNECTIONS AND COORDINATE WITH LIGHTING CONTROLS AS SHOWN IN DETAIL 3/E701. MINIMUM WIRE SIZE SHALL BE #12 AWG CU.
- E2 EC SHALL CONNECT POWER SUPPLY TO NEW SPEAKERS AND INSTALL AS INDICATED ON ARCHITECTURAL REFLECTED CEILING PLAN. PROVIDE ADDITIONAL WIRING AND SPLICES AS REQUIRED TO MAKE CONNECTIONS. MINIMUM WIRE SIZE SHALL BE #12 AWG
- E3 EC SHALL FURNISH AND INSTALL CEILING MOUNTED OCCUPANCY SENSOR FOR AUTOMATIC LIGHTING CONTROL. PROVIDE SPLICES AND EXTEND EXISTING CIRCUITS AS REQUIRED TO ENSURE THE SENSOR IS COORDINATED WITH THE WALL MOUNTED SWITCH TO MEET THE DESIGN INTENT. MINIMUM WIRE SIZE SHALL BE #12 AWG
- (E4) LIGHTING FIXTURE TO PROVIDE EGRESS LIGHTING. EC SHALL FURNISH AND INSTALL GENERATOR TRANSFER DEVICE AND CONNECT THE PRESERVED NORMAL LIGHTING CIRCUIT AND PRESERVED EMERGENCY CIRCUIT TO ENSURE LIGHT IS PROVIDED POWER FROM EMERGENCY CIRCUIT DURING NORMAL POWER OUTAGE. REFER TO DETAIL 6/E701 FOR MORE INFORMATION.
- E5 LIGHTING FIXTURE TO OPERATE AS 'NIGHT LIGHT' FIXTURE AND PROVIDE EGRESS LIGHTING IN THE EVENT OF LOSS OF NORMAL POWER. EC SHALL PROVIDE POWER IN THE SPACE. PROVIDE POWER TO FIXTURE FROM THE EMERGENCY CIRCUIT AT A POINT AHEAD OF ANY SWITCHING. LIGHT TO REMAIN ON AT ALL TIMES.
- FAI EC SHALL REPLACE IN-KIND FIRE ALARM NOTIFICATION APPLIANCE AND INITIATION DEVICES AS INDICATED ON ARCHITECTURAL REFLECTED CEILING PLAN. FURNISH AND INSTALL RECESSED BACKBOX AND CEILING TILE SUPPORT BRACKETS AS NEEDED. PROPERLY EXTEND CIRCUITING AS REQUIRED.



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Contact: Wing Au e-mail: wau@csagroup.com



Description Date

**REVISIONS:** 

PENNSYLVANIA ONVENTION CENTER

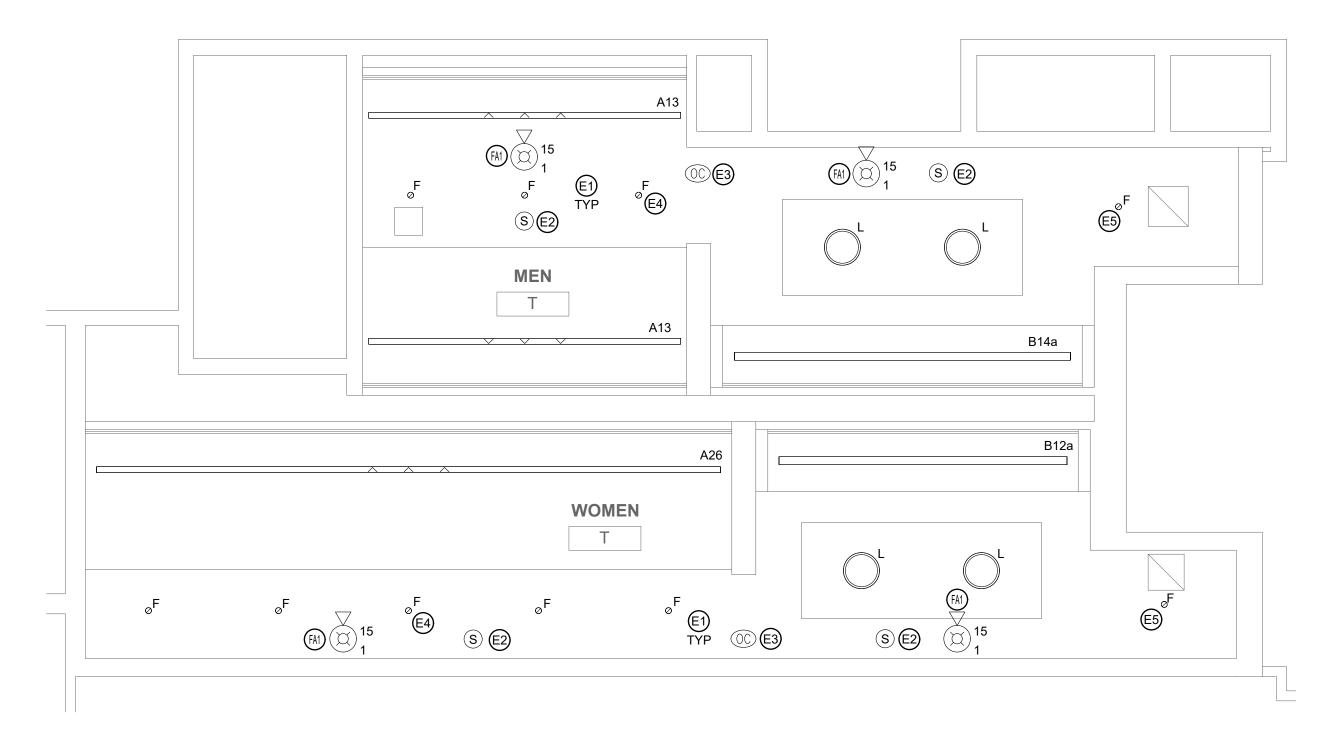
REFLECTED **CEILING PLAN -**ROOMS L, M (SEMINAR)

S R

**KEY PLAN - LEVEL 200** 

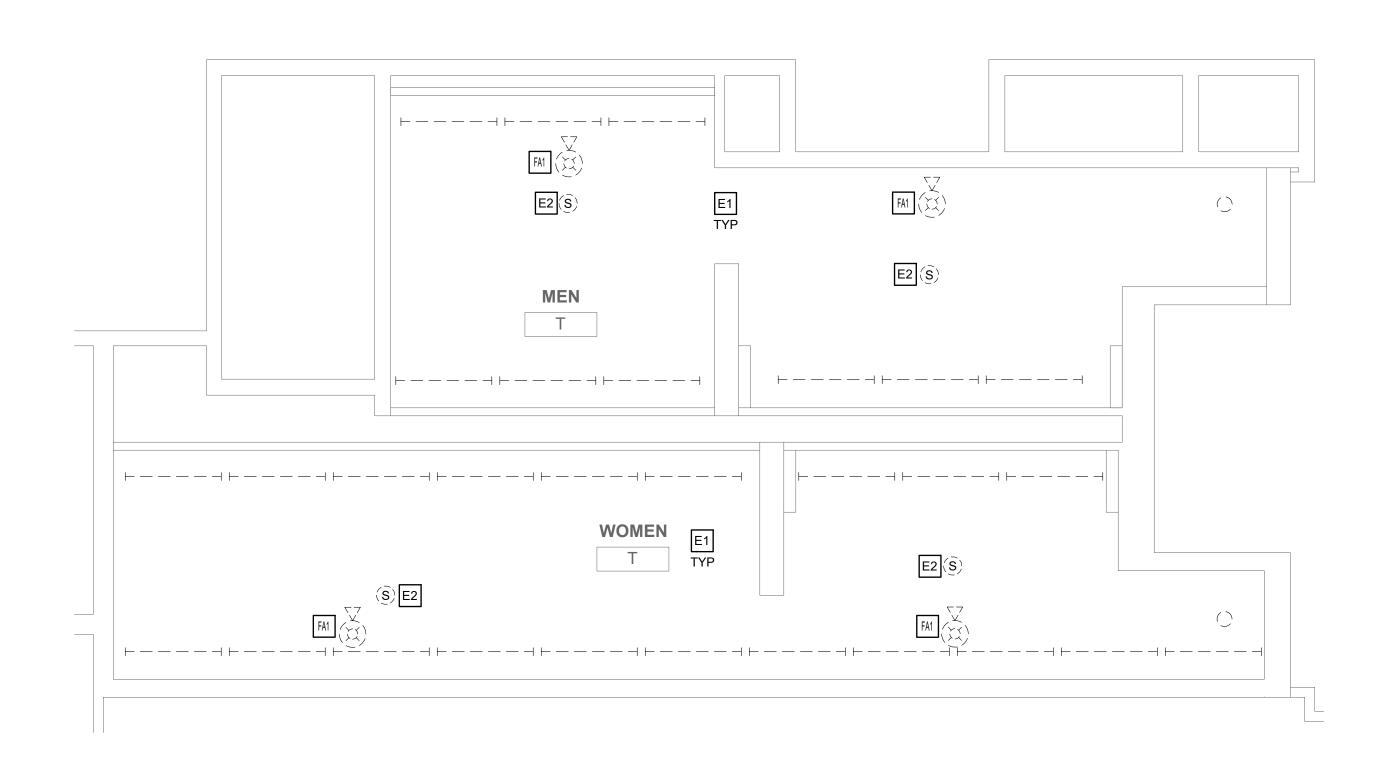
CW1615 Project number November 25, 2019 RR,AS Drawn by

Checked by E615



REFLECTED CEILING PLAN - MEN'S & WOMEN'S ROOM T

E616 SCALE: 1/4" = 1'-0"



1 DEMO PLAN - MEN'S & WOMEN'S ROOM T E616 SCALE: 1/4" = 1'-0"

#### GENERAL DEMOLITION NOTES

- 1. SEE DRAWING E001 FOR GENERAL NOTES, SYMBOLS, AND
- 2. PRIOR TO THE START OF WORK, EC SHALL LOCATE ALL LIGHTING AND POWER PANEL SUPPLY CIRCUITS FOR THE WORK AREA AND RECORD PANEL AND CIRCUIT NUMBER ON RECORD DRAWINGS.
- 3. EC SHALL FIELD INVESTIGATE EXISTING LIGHT FIXTURES TO VERIFY NORMAL AND EMERGENCY FIXTURE VOLTAGES AND ENSURE NEW LIGHTING FIXTURES ARE SELECTED WITH VOLTAGES TO MATCH EXISTING.
- 4. EC SHALL REMOVE AND DISPOSE OF ALL LIGHT FIXTURES WITHIN THE WORK AREA. TAG AND PRESERVE EXISTING LIGHTING CIRCUITS FOR FUTURE RECONNECTION TO NEW LIGHTING FIXTURES.
- 5. FURNISH AND INSTALL JUNCTION BOXES WHERE REQUIRED TO CONTINUE CIRCUITS OUTSIDE OF WORK AREA.
- 6. KEYED NOTES MAY NOT APPEAR ON ALL PLAN VIEWS.

#### **DEMOLITION KEYED NOTES**

- E1 EC SHALL REMOVE AND DISPOSE OF ALL LIGHT FIXTURES WITHIN THE WORK AREA. PRESERVE EXISTING LIGHTING CIRCUITS FOR FUTURE RECONNECTION TO NEW LIGHTING FIXTURES.
- E2 EC SHALL REMOVE AND DISPOSE OF CEILING-MOUNTED SPEAKERS. EC SHALL DISCONNECT POWER SUPPLY TO SPEAKERS AND PRESERVE FOR NEW SPEAKER INSTALLATION IN NEW LOCATION. REFER TO ARCHITECTURAL REFLECTED CEILING PLAN FOR PROPOSED LAYOUT.
- FAI EC SHALL REMOVE AND DISCONNECT FIRE ALARM DEVICES WITHIN THE DESIGNATED AREA OF WORK TO ACCOMMODATE CEILING REPLACEMENT. SUPPORT EXISTING FIRE ALARM WIRING FOR TERMINATION TO BE REINSTALLED AS INDICATED ON ARCHITECTURAL REFLECTED CEILING PLAN. CIRCUIT CONTINUITY MUST BE MAINTAINED AT ALL TIMES AS NOT TO AFFECT REMAINING DEVICES NOT INCLUDED IN THIS WORK. ALL WIRING SHALL BE TAGGED AS REQUIRED FOR REINSTALLATION OF NEW DEVICES.

#### **GENERAL NEW WORK NOTES**

- 1. SEE DRAWING E001 FOR GENERAL NOTES, SYMBOLS, AND ABBREVIATIONS.
- 2. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE LATEST ADOPTED EDITION OF THE NEC.
- 3. ALL CONDUCTORS SHALL BE CU AND THHN/THWN UNLESS OTHERWISE NOTED.
- 4. IN NO CASE SHALL A 277V, 20A/1P CIRCUIT BE LOADED TO OVER 4.432KW OR A 120V, 20A/1P CIRCUIT BE LOADED TO OVER 1.92KW. MAKE CHANGES AS REQUIRED TO ENSURE COMPLIANT LOADING ON
- 5. EC TO TRACE ALL CIRCUITS BACK TO SOURCE AND TAKE LOAD READINGS ON CIRCUITS AND PANELBOARD AS REQUIRED TO VERIFY CODE COMPLIANT LOADING AFTER PROJECT IS COMPLETE. MAKE ADJUSTMENTS AS REQUIRED. EC TO RELABEL ALL CIRCUIT DIRECTORIES FOR NEW CONFIGURATION AS REQUIRED AND PROVIDE AS-BUILTS TO CLIENT.
- BASIS OF DESIGN FOR OCCUPANCY SENSORS IS AS FOLLOWS. EC SHALL MAKE ALL NECESSARY WIRING CONNECTIONS PER MANUFACTURER'S RECOMMENDATIONS AND ADJUST FOR MAXIMUM COVERAGE IN THE FIELD. REFER TO OCCUPANCY SENSOR WIRING DIAGRAMS ON DRAWING E701 FOR MORE INFORMATION.
  - CEILING MOUNTED: HUBBELL OMNIDT200 (360°, 22' RADIUS) WALL MOUNTED: HUBBELL CONTROLS: LHMTS1-24V-WH
- 7. KEYED NOTES MAY NOT APPEAR ON ALL PLAN VIEWS.
- 8. SEE DRAWINGS E002-E004 FOR ELECTRICAL PANEL LOCATIONS.

#### NEW WORK KEYED NOTES

- E1 EC SHALL FURNISH AND INSTALL ALL NEW LIGHTING AS SHOWN ON THE ARCHITECTURAL DRAWINGS. MAKE CONNECTIONS TO THE EXISTING 277V LIGHTING CIRCUITS PRESERVED DURING DEMOLITION. PROVIDE ADDITIONAL WIRING AND SPLICES AS REQUIRED TO MAKE CONNECTIONS AND COORDINATE WITH LIGHTING CONTROLS AS SHOWN IN DETAIL 3/E701. MINIMUM WIRE SIZE SHALL BE #12 AWG CU.
- E2 EC SHALL CONNECT POWER SUPPLY TO NEW SPEAKERS AND INSTALL AS INDICATED ON ARCHITECTURAL REFLECTED CEILING PLAN. PROVIDE ADDITIONAL WIRING AND SPLICES AS REQUIRED TO MAKE CONNECTIONS. MINIMUM WIRE SIZE SHALL BE #12 AWG
- E3 EC SHALL FURNISH AND INSTALL CEILING MOUNTED OCCUPANCY SENSOR FOR AUTOMATIC LIGHTING CONTROL. PROVIDE SPLICES AND EXTEND EXISTING CIRCUITS AS REQUIRED TO ENSURE THE SENSOR IS COORDINATED WITH THE WALL MOUNTED SWITCH TO MEET THE DESIGN INTENT. MINIMUM WIRE SIZE SHALL BE #12 AWG
- E4 LIGHTING FIXTURE TO PROVIDE EGRESS LIGHTING. EC SHALL FURNISH AND INSTALL GENERATOR TRANSFER DEVICE AND CONNECT THE PRESERVED NORMAL LIGHTING CIRCUIT AND PRESERVED EMERGENCY CIRCUIT TO ENSURE LIGHT IS PROVIDED POWER FROM EMERGENCY CIRCUIT DURING NORMAL POWER OUTAGE. REFER TO DETAIL 6/E701 FOR MORE INFORMATION.
- E5 LIGHTING FIXTURE TO OPERATE AS 'NIGHT LIGHT' FIXTURE AND PROVIDE EGRESS LIGHTING IN THE EVENT OF LOSS OF NORMAL POWER. EC SHALL PROVIDE POWER IN THE SPACE. PROVIDE POWER TO FIXTURE FROM THE EMERGENCY CIRCUIT AT A POINT AHEAD OF ANY SWITCHING. LIGHT TO REMAIN ON AT ALL TIMES.
- EC SHALL REPLACE IN-KIND FIRE ALARM NOTIFICATION APPLIANCE AND INITIATION DEVICES AS INDICATED ON ARCHITECTURAL REFLECTED CEILING PLAN. FURNISH AND INSTALL RECESSED BACKBOX AND CEILING TILE SUPPORT BRACKETS AS NEEDED. PROPERLY EXTEND CIRCUITING AS REQUIRED.



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SUITE 507

Contact: Wing Au e-mail: wau@csagroup.com

PHILADELPHIA, PA 19125



**REVISIONS:** Description Date

SONVENTION

REFLECTED **CEILING PLAN -ROOM T** (SEMINAR)

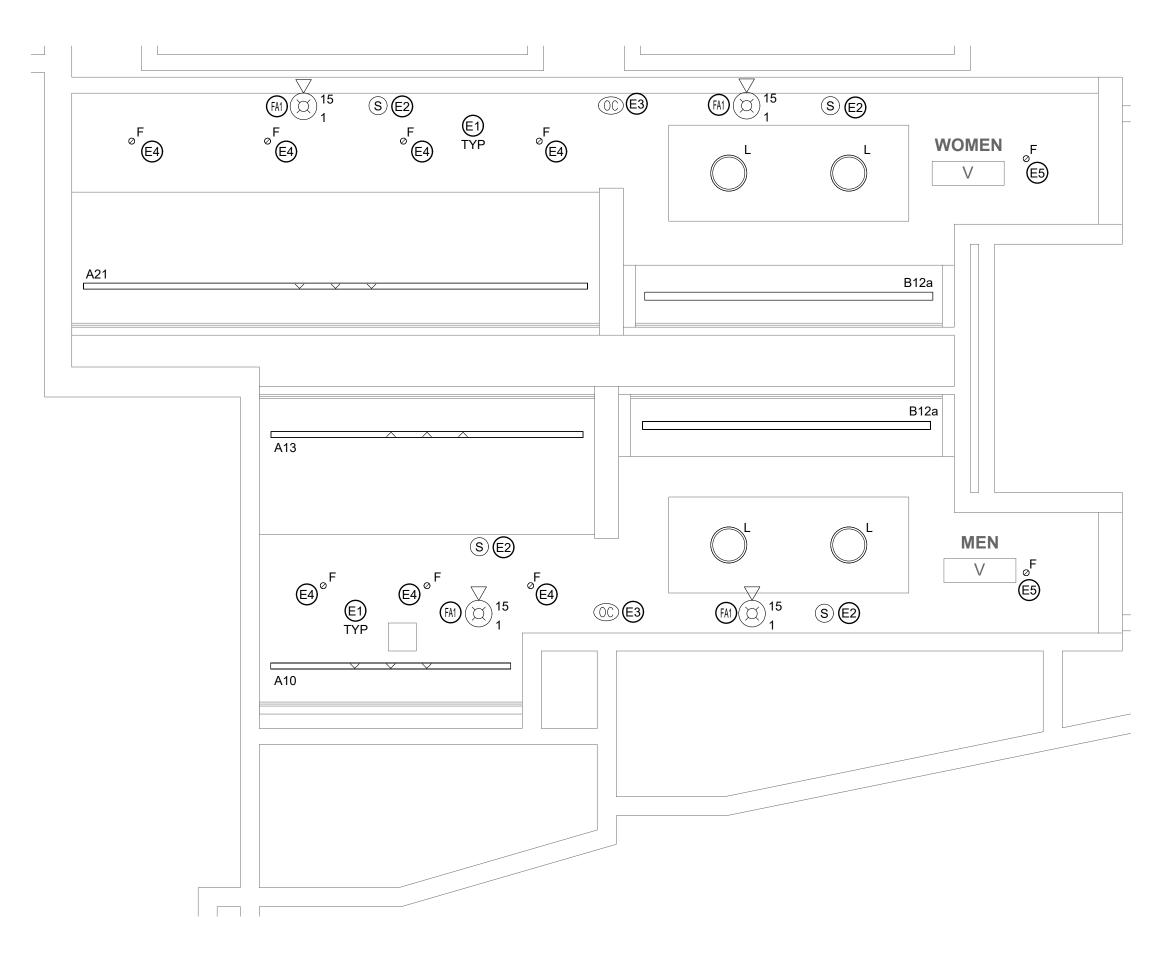
CW1615 Project number November 25, 2019 RR,AS Drawn by

Checked by E616

1/4" = 1'-0"

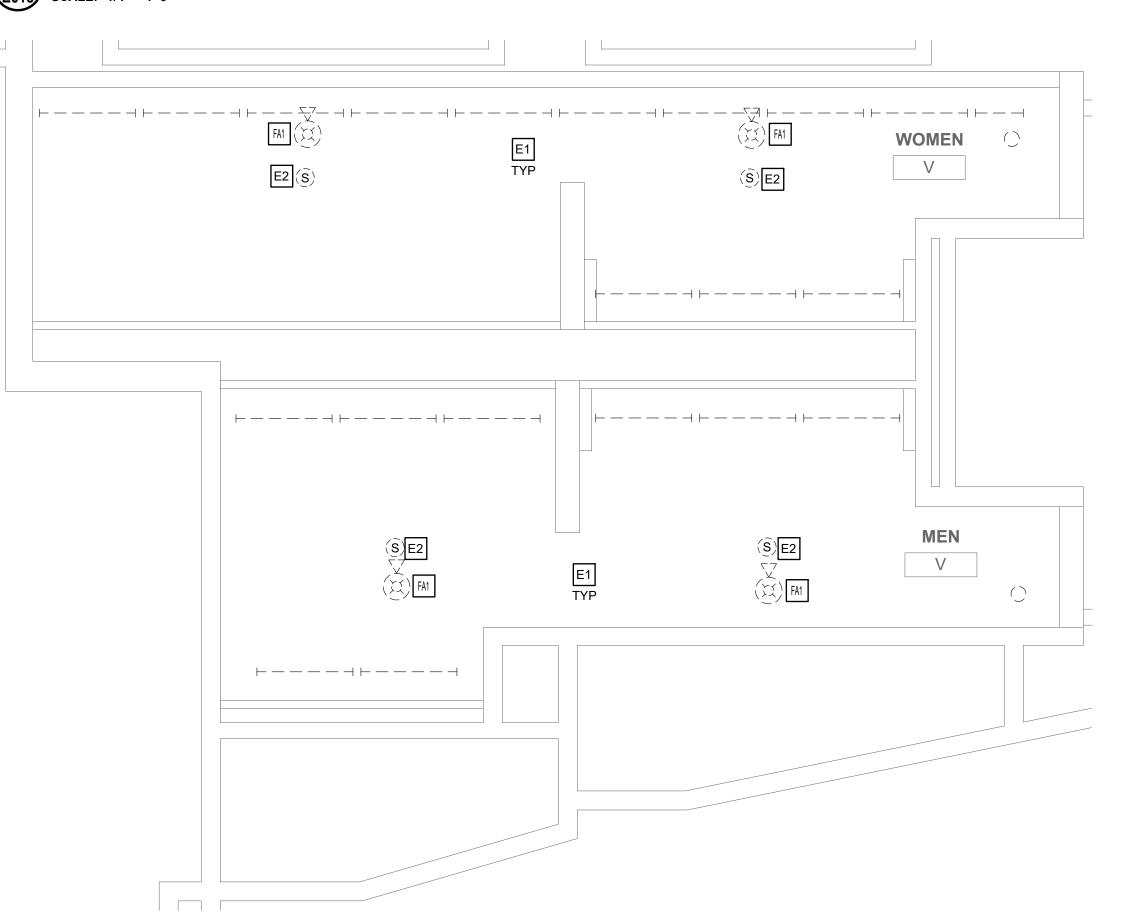
KEY PLAN - LEVEL 200

Filbert St.



#### REFLECTED CEILING PLAN - MEN'S & WOMEN'S ROOM V E618 SCALE: 1/4" = 1'-0"

E618 SCALE: 1/4" = 1'-0"



#### GENERAL DEMOLITION NOTES

- 1. SEE DRAWING E001 FOR GENERAL NOTES, SYMBOLS, AND ABBREVIATIONS.
- 2. PRIOR TO THE START OF WORK, EC SHALL LOCATE ALL LIGHTING AND POWER PANEL SUPPLY CIRCUITS FOR THE WORK AREA AND RECORD PANEL AND CIRCUIT NUMBER ON RECORD DRAWINGS.
- 3. EC SHALL FIELD INVESTIGATE EXISTING LIGHT FIXTURES TO VERIFY NORMAL AND EMERGENCY FIXTURE VOLTAGES AND ENSURE NEW LIGHTING FIXTURES ARE SELECTED WITH VOLTAGES TO MATCH EXISTING.
- 4. EC SHALL REMOVE AND DISPOSE OF ALL LIGHT FIXTURES WITHIN THE WORK AREA. TAG AND PRESERVE EXISTING LIGHTING CIRCUITS FOR FUTURE RECONNECTION TO NEW LIGHTING FIXTURES.
- 5. FURNISH AND INSTALL JUNCTION BOXES WHERE REQUIRED TO CONTINUE CIRCUITS OUTSIDE OF WORK AREA.
- 6. KEYED NOTES MAY NOT APPEAR ON ALL PLAN VIEWS.

#### **DEMOLITION KEYED NOTES**

- E1 EC SHALL REMOVE AND DISPOSE OF ALL LIGHT FIXTURES WITHIN THE WORK AREA PRESERVE EXISTING LIGHTING CIRCLITS FOR THE WORK AREA. PRESERVE EXISTING LIGHTING CIRCUITS FOR FUTURE RECONNECTION TO NEW LIGHTING FIXTURES.
- E2 EC SHALL REMOVE AND DISPOSE OF CEILING-MOUNTED SPEAKERS. EC SHALL DISCONNECT POWER SUPPLY TO SPEAKERS AND PRESERVE FOR NEW SPEAKER INSTALLATION IN NEW LOCATION. REFER TO ARCHITECTURAL REFLECTED CEILING PLAN FOR PROPOSED LAYOUT.
- FAI EC SHALL REMOVE AND DISCONNECT FIRE ALARM DEVICES WITHIN THE DESIGNATED AREA OF WORK TO ACCOMMODATE CEILING REPLACEMENT. SUPPORT EXISTING FIRE ALARM WIRING FOR TERMINATION TO BE REINSTALLED AS INDICATED ON ARCHITECTURAL REFLECTED CEILING PLAN. CIRCUIT CONTINUITY MUST BE MAINTAINED AT ALL TIMES AS NOT TO AFFECT REMAINING DEVICES NOT INCLUDED IN THIS WORK. ALL WIRING SHALL BE TAGGED AS REQUIRED FOR REINSTALLATION OF NEW DEVICES.

#### **GENERAL NEW WORK NOTES**

- 1. SEE DRAWING E001 FOR GENERAL NOTES, SYMBOLS, AND ABBREVIATIONS.
- 2. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE LATEST ADOPTED EDITION OF THE NEC.
- 3. ALL CONDUCTORS SHALL BE CU AND THHN/THWN UNLESS OTHERWISE NOTED.
- 4. IN NO CASE SHALL A 277V, 20A/1P CIRCUIT BE LOADED TO OVER 4.432KW OR A 120V, 20A/1P CIRCUIT BE LOADED TO OVER 1.92KW. MAKE CHANGES AS REQUIRED TO ENSURE COMPLIANT LOADING ON
- 5. EC TO TRACE ALL CIRCUITS BACK TO SOURCE AND TAKE LOAD READINGS ON CIRCUITS AND PANELBOARD AS REQUIRED TO VERIFY CODE COMPLIANT LOADING AFTER PROJECT IS COMPLETE. MAKE ADJUSTMENTS AS REQUIRED. EC TO RELABEL ALL CIRCUIT DIRECTORIES FOR NEW CONFIGURATION AS REQUIRED AND PROVIDE AS-BUILTS TO CLIENT.
- BASIS OF DESIGN FOR OCCUPANCY SENSORS IS AS FOLLOWS. EC SHALL MAKE ALL NECESSARY WIRING CONNECTIONS PER MANUFACTURER'S RECOMMENDATIONS AND ADJUST FOR MAXIMUM COVERAGE IN THE FIELD. REFER TO OCCUPANCY SENSOR WIRING DIAGRAMS ON DRAWING E701 FOR MORE INFORMATION.
  - CEILING MOUNTED: HUBBELL OMNIDT200 (360°, 22' RADIUS) WALL MOUNTED: HUBBELL CONTROLS: LHMTS1-24V-WH
- 7. KEYED NOTES MAY NOT APPEAR ON ALL PLAN VIEWS.
- 8. SEE DRAWINGS E002-E004 FOR ELECTRICAL PANEL LOCATIONS.

#### **NEW WORK KEYED NOTES**

- E1 EC SHALL FURNISH AND INSTALL ALL NEW LIGHTING AS SHOWN ON THE ARCHITECTURAL DRAWINGS. MAKE CONNECTIONS TO THE EXISTING 277V LIGHTING CIRCUITS PRESERVED DURING DEMOLITION. PROVIDE ADDITIONAL WIRING AND SPLICES AS REQUIRED TO MAKE CONNECTIONS AND COORDINATE WITH LIGHTING CONTROLS AS SHOWN IN DETAIL 3/E701. MINIMUM WIRE SIZE SHALL BE #12 AWG CU.
- E2 EC SHALL CONNECT POWER SUPPLY TO NEW SPEAKERS AND INSTALL AS INDICATED ON ARCHITECTURAL REFLECTED CEILING PLAN. PROVIDE ADDITIONAL WIRING AND SPLICES AS REQUIRED TO MAKE CONNECTIONS. MINIMUM WIRE SIZE SHALL BE #12 AWG
- E3 EC SHALL FURNISH AND INSTALL CEILING MOUNTED OCCUPANCY SENSOR FOR AUTOMATIC LIGHTING CONTROL. PROVIDE SPLICES AND EXTEND EXISTING CIRCUITS AS REQUIRED TO ENSURE THE SENSOR IS COORDINATED WITH THE WALL MOUNTED SWITCH TO MEET THE DESIGN INTENT. MINIMUM WIRE SIZE SHALL BE #12 AWG
- (E4) LIGHTING FIXTURE TO PROVIDE EGRESS LIGHTING. EC SHALL FURNISH AND INSTALL GENERATOR TRANSFER DEVICE AND CONNECT THE PRESERVED NORMAL LIGHTING CIRCUIT AND PRESERVED EMERGENCY CIRCUIT TO ENSURE LIGHT IS PROVIDED POWER FROM EMERGENCY CIRCUIT DURING NORMAL POWER OUTAGE. REFER TO DETAIL 6/E701 FOR MORE INFORMATION.
- (E5) LIGHTING FIXTURE TO OPERATE AS 'NIGHT LIGHT' FIXTURE AND PROVIDE EGRESS LIGHTING IN THE EVENT OF LOSS OF NORMAL POWER. EC SHALL PROVIDE POWER IN THE SPACE. PROVIDE POWER TO FIXTURE FROM THE EMERGENCY CIRCUIT AT A POINT AHEAD OF ANY SWITCHING. LIGHT TO REMAIN ON AT ALL TIMES.
- EC SHALL REPLACE IN-KIND FIRE ALARM NOTIFICATION APPLIANCE AND INITIATION DEVICES AS INDICATED ON ARCHITECTURAL REFLECTED CEILING PLAN. FURNISH AND INSTALL RECESSED BACKBOX AND CEILING TILE SUPPORT BRACKETS AS NEEDED. PROPERLY EXTEND CIRCUITING AS REQUIRED.



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PHILADELPHIA, PA 19125



**REVISIONS:** Description Date

PENNSYLV,

REFLECTED **CEILING PLAN -ROOM V** (SEMINAR)

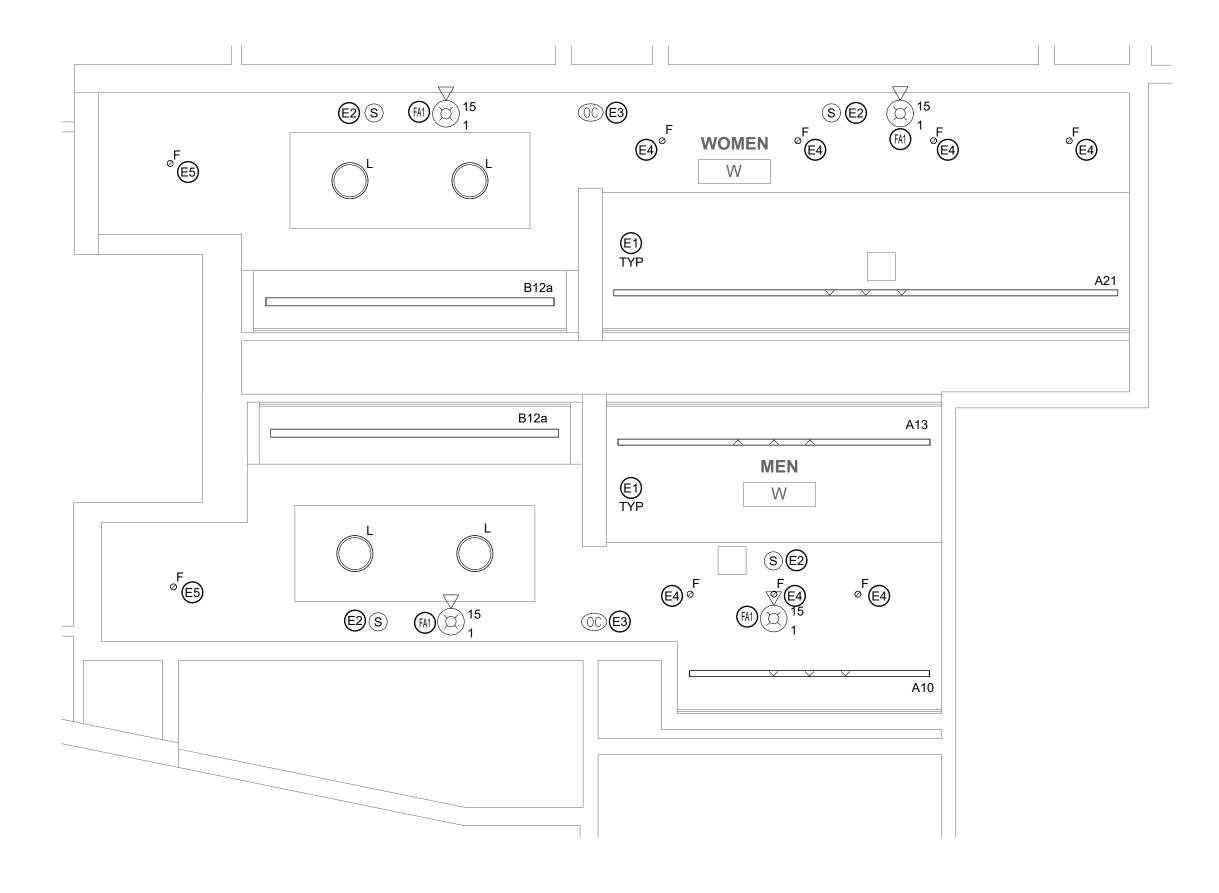
CW1615 Project number November 25, 2019 RR,AS Drawn by

Checked by E618

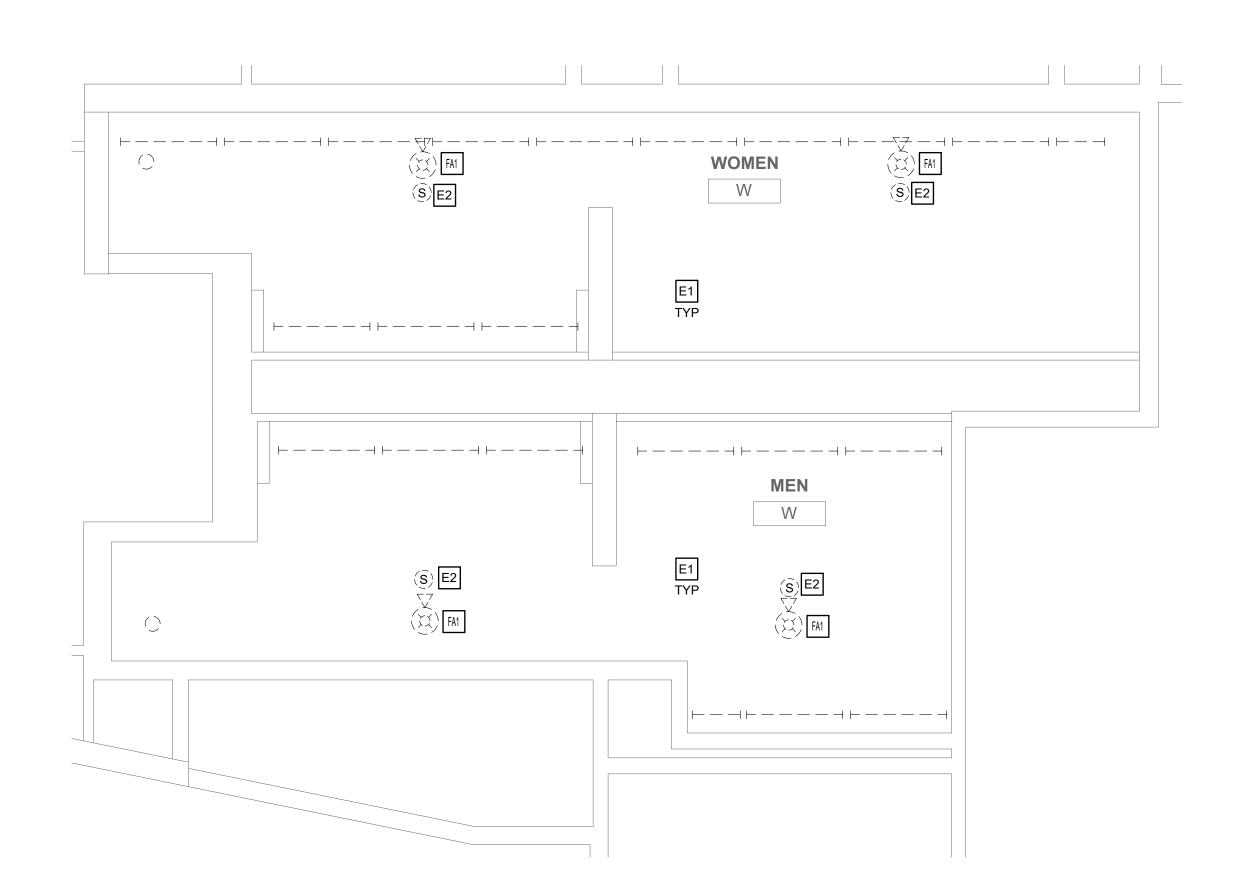
1/4" = 1'-0"

S R Filbert St. KEY PLAN - LEVEL 200

1 DEMO PLAN - MEN'S & WOMEN'S ROOM V



#### REFLECTED CEILING PLAN - MEN'S & WOMEN'S ROOM W E619 SCALE: 1/4" = 1'-0"



#### DEMO PLAN - MEN'S & WOMEN'S ROOM W E619 SCALE: 1/4" = 1'-0"

#### GENERAL DEMOLITION NOTES

- 1. SEE DRAWING E001 FOR GENERAL NOTES, SYMBOLS, AND
- 2. PRIOR TO THE START OF WORK, EC SHALL LOCATE ALL LIGHTING AND POWER PANEL SUPPLY CIRCUITS FOR THE WORK AREA AND RECORD PANEL AND CIRCUIT NUMBER ON RECORD DRAWINGS.
- 3. EC SHALL FIELD INVESTIGATE EXISTING LIGHT FIXTURES TO VERIFY NORMAL AND EMERGENCY FIXTURE VOLTAGES AND ENSURE NEW LIGHTING FIXTURES ARE SELECTED WITH VOLTAGES TO MATCH EXISTING.
- 4. EC SHALL REMOVE AND DISPOSE OF ALL LIGHT FIXTURES WITHIN THE WORK AREA. TAG AND PRESERVE EXISTING LIGHTING CIRCUITS FOR FUTURE RECONNECTION TO NEW LIGHTING FIXTURES.
- 5. FURNISH AND INSTALL JUNCTION BOXES WHERE REQUIRED TO CONTINUE CIRCUITS OUTSIDE OF WORK AREA.
- 6. KEYED NOTES MAY NOT APPEAR ON ALL PLAN VIEWS.

#### DEMOLITION KEYED NOTES

- E1 EC SHALL REMOVE AND DISPOSE OF ALL LIGHT FIXTURES WITHIN THE WORK AREA DRESERVE EXISTING LIGHTING CIRCLUTE FOR THE WORK AREA. PRESERVE EXISTING LIGHTING CIRCUITS FOR FUTURE RECONNECTION TO NEW LIGHTING FIXTURES.
- E2 EC SHALL REMOVE AND DISPOSE OF CEILING-MOUNTED SPEAKERS. EC SHALL DISCONNECT POWER SUPPLY TO SPEAKERS AND PRESERVE FOR NEW SPEAKER INSTALLATION IN NEW LOCATION. REFER TO ARCHITECTURAL REFLECTED CEILING PLAN FOR PROPOSED LAYOUT.
- THE DESIGNATED AREA OF WORK TO ACCOMMODATE CEILING REPLACEMENT. SUPPORT EXISTING FIRE ALARM WIRING FOR TERMINATION TO BE REINSTALLED AS INDICATED ON ARCHITECTURAL REFLECTED CEILING PLAN. CIRCUIT CONTINUITY MUST BE MAINTAINED AT ALL TIMES AS NOT TO AFFECT REMAINING DEVICES NOT INCLUDED IN THIS WORK. ALL WIRING SHALL BE TAGGED AS REQUIRED FOR REINSTALLATION OF NEW DEVICES.

#### **GENERAL NEW WORK NOTES**

- 1. SEE DRAWING E001 FOR GENERAL NOTES, SYMBOLS, AND ABBREVIATIONS.
- 2. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE LATEST ADOPTED EDITION OF THE NEC.
- 3. ALL CONDUCTORS SHALL BE CU AND THHN/THWN UNLESS OTHERWISE NOTED.
- IN NO CASE SHALL A 277V, 20A/1P CIRCUIT BE LOADED TO OVER 4.432KW OR A 120V, 20A/1P CIRCUIT BE LOADED TO OVER 1.92KW. MAKE CHANGES AS REQUIRED TO ENSURE COMPLIANT LOADING ON
- 5. EC TO TRACE ALL CIRCUITS BACK TO SOURCE AND TAKE LOAD READINGS ON CIRCUITS AND PANELBOARD AS REQUIRED TO VERIFY CODE COMPLIANT LOADING AFTER PROJECT IS COMPLETE. MAKE ADJUSTMENTS AS REQUIRED. EC TO RELABEL ALL CIRCUIT DIRECTORIES FOR NEW CONFIGURATION AS REQUIRED AND PROVIDE AS-BUILTS TO CLIENT.
- BASIS OF DESIGN FOR OCCUPANCY SENSORS IS AS FOLLOWS. EC SHALL MAKE ALL NECESSARY WIRING CONNECTIONS PER MANUFACTURER'S RECOMMENDATIONS AND ADJUST FOR MAXIMUM COVERAGE IN THE FIELD. REFER TO OCCUPANCY SENSOR WIRING DIAGRAMS ON DRAWING E701 FOR MORE INFORMATION.
- CEILING MOUNTED: HUBBELL OMNIDT200 (360°, 22' RADIUS) WALL MOUNTED: HUBBELL CONTROLS: LHMTS1-24V-WH
- 7. KEYED NOTES MAY NOT APPEAR ON ALL PLAN VIEWS.
- 8. SEE DRAWINGS E002-E004 FOR ELECTRICAL PANEL LOCATIONS.

#### NEW WORK KEYED NOTES

- E1 EC SHALL FURNISH AND INSTALL ALL NEW LIGHTING AS SHOWN ON THE ARCHITECTURAL DRAWINGS. MAKE CONNECTIONS TO THE EXISTING 277V LIGHTING CIRCUITS PRESERVED DURING DEMOLITION. PROVIDE ADDITIONAL WIRING AND SPLICES AS REQUIRED TO MAKE CONNECTIONS AND COORDINATE WITH LIGHTING CONTROLS AS SHOWN IN DETAIL 3/E701. MINIMUM WIRE SIZE SHALL BE #12 AWG CU.
- E2 EC SHALL CONNECT POWER SUPPLY TO NEW SPEAKERS AND INSTALL AS INDICATED ON ARCHITECTURAL REFLECTED CEILING PLAN. PROVIDE ADDITIONAL WIRING AND SPLICES AS REQUIRED TO MAKE CONNECTIONS. MINIMUM WIRE SIZE SHALL BE #12 AWG
- E3 EC SHALL FURNISH AND INSTALL CEILING MOUNTED OCCUPANCY SENSOR FOR AUTOMATIC LIGHTING CONTROL. PROVIDE SPLICES AND EXTEND EXISTING CIRCUITS AS REQUIRED TO ENSURE THE SENSOR IS COORDINATED WITH THE WALL MOUNTED SWITCH TO MEET THE DESIGN INTENT. MINIMUM WIRE SIZE SHALL BE #12 AWG
- (E4) LIGHTING FIXTURE TO PROVIDE EGRESS LIGHTING. EC SHALL FURNISH AND INSTALL GENERATOR TRANSFER DEVICE AND CONNECT THE PRESERVED NORMAL LIGHTING CIRCUIT AND PRESERVED EMERGENCY CIRCUIT TO ENSURE LIGHT IS PROVIDED POWER FROM EMERGENCY CIRCUIT DURING NORMAL POWER OUTAGE. REFER TO DETAIL 6/E701 FOR MORE INFORMATION.
- (E5) LIGHTING FIXTURE TO OPERATE AS 'NIGHT LIGHT' FIXTURE AND PROVIDE EGRESS LIGHTING IN THE EVENT OF LOSS OF NORMAL POWER. EC SHALL PROVIDE POWER IN THE SPACE. PROVIDE POWER TO FIXTURE FROM THE EMERGENCY CIRCUIT AT A POINT AHEAD OF ANY SWITCHING. LIGHT TO REMAIN ON AT ALL TIMES.
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Filbert St.

KEY PLAN - LEVEL 200

S R



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Contact: Wing Au e-mail: wau@csagroup.com



**REVISIONS:** No. Description Date

SONVENTION

#### REFLECTED **CEILING PLAN -ROOM W** (SEMINAR)

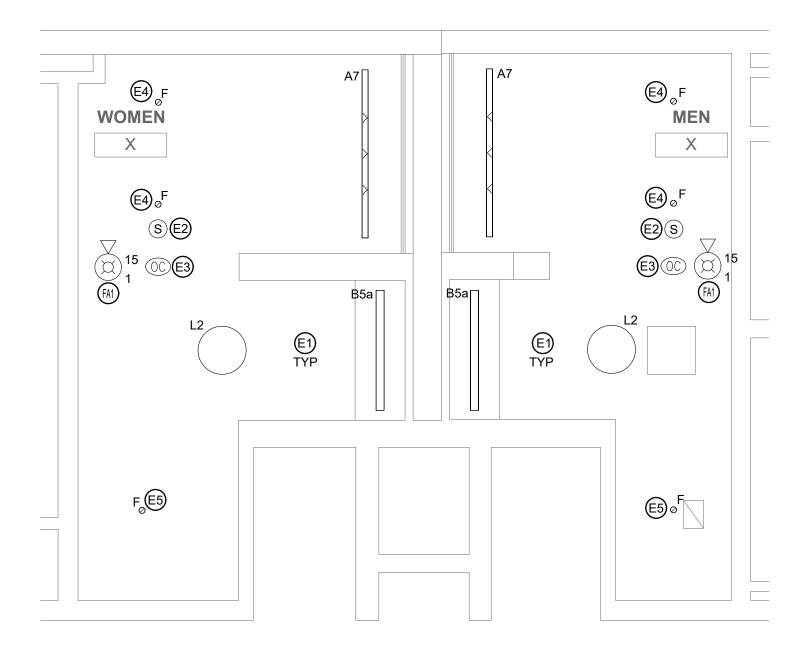
CW1615 Project number

November 25, 2019 RR,AS Drawn by

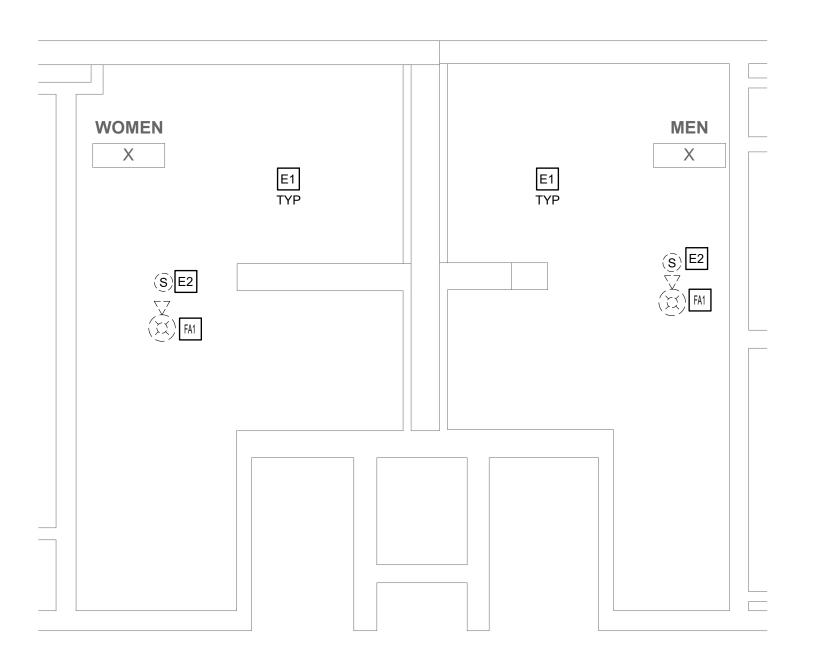
Checked by E619

1/4" = 1'-0"

NTS



2 REFLECTED CEILING PLAN - MEN'S & WOMEN'S ROOM X
E620 SCALE: 1/4" = 1'-0"



1 DEMO PLAN - MEN'S & WOMEN'S ROOM X
E620 SCALE: 1/4" = 1'-0"

#### GENERAL DEMOLITION NOTES

- 1. SEE DRAWING E001 FOR GENERAL NOTES, SYMBOLS, AND ABBREVIATIONS.
- 2. PRIOR TO THE START OF WORK, EC SHALL LOCATE ALL LIGHTING AND POWER PANEL SUPPLY CIRCUITS FOR THE WORK AREA AND RECORD PANEL AND CIRCUIT NUMBER ON RECORD DRAWINGS.
- EC SHALL FIELD INVESTIGATE EXISTING LIGHT FIXTURES TO VERIFY NORMAL AND EMERGENCY FIXTURE VOLTAGES AND ENSURE NEW LIGHTING FIXTURES ARE SELECTED WITH VOLTAGES TO MATCH EXISTING.
- 4. EC SHALL REMOVE AND DISPOSE OF ALL LIGHT FIXTURES WITHIN THE WORK AREA. TAG AND PRESERVE EXISTING LIGHTING CIRCUITS FOR FUTURE RECONNECTION TO NEW LIGHTING FIXTURES.
- 5. FURNISH AND INSTALL JUNCTION BOXES WHERE REQUIRED TO CONTINUE CIRCUITS OUTSIDE OF WORK AREA.
- 6. KEYED NOTES MAY NOT APPEAR ON ALL PLAN VIEWS.

#### **DEMOLITION KEYED NOTES**

- E1 EC SHALL REMOVE AND DISPOSE OF ALL LIGHT FIXTURES WITHIN THE WORK AREA. PRESERVE EXISTING LIGHTING CIRCUITS FOR FUTURE RECONNECTION TO NEW LIGHTING FIXTURES.
- E2 EC SHALL REMOVE AND DISPOSE OF CEILING-MOUNTED SPEAKERS. EC SHALL DISCONNECT POWER SUPPLY TO SPEAKERS AND PRESERVE FOR NEW SPEAKER INSTALLATION IN NEW LOCATION. REFER TO ARCHITECTURAL REFLECTED CEILING PLAN FOR PROPOSED LAYOUT.
- EC SHALL REMOVE AND DISCONNECT FIRE ALARM DEVICES WITHIN THE DESIGNATED AREA OF WORK TO ACCOMMODATE CEILING REPLACEMENT. SUPPORT EXISTING FIRE ALARM WIRING FOR TERMINATION TO BE REINSTALLED AS INDICATED ON ARCHITECTURAL REFLECTED CEILING PLAN. CIRCUIT CONTINUITY MUST BE MAINTAINED AT ALL TIMES AS NOT TO AFFECT REMAINING DEVICES NOT INCLUDED IN THIS WORK. ALL WIRING SHALL BE TAGGED AS REQUIRED FOR REINSTALLATION OF NEW DEVICES.

#### **GENERAL NEW WORK NOTES**

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- 2. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE LATEST ADOPTED EDITION OF THE NEC.
- 3. ALL CONDUCTORS SHALL BE CU AND THHN/THWN UNLESS OTHERWISE NOTED.
- IN NO CASE SHALL A 277V, 20A/1P CIRCUIT BE LOADED TO OVER 4.432KW OR A 120V, 20A/1P CIRCUIT BE LOADED TO OVER 1.92KW. MAKE CHANGES AS REQUIRED TO ENSURE COMPLIANT LOADING ON BREAKERS.
- 5. EC TO TRACE ALL CIRCUITS BACK TO SOURCE AND TAKE LOAD READINGS ON CIRCUITS AND PANELBOARD AS REQUIRED TO VERIFY CODE COMPLIANT LOADING AFTER PROJECT IS COMPLETE. MAKE ADJUSTMENTS AS REQUIRED. EC TO RELABEL ALL CIRCUIT DIRECTORIES FOR NEW CONFIGURATION AS REQUIRED AND PROVIDE AS-BUILTS TO CLIENT.
- 6. BASIS OF DESIGN FOR OCCUPANCY SENSORS IS AS FOLLOWS. EC SHALL MAKE ALL NECESSARY WIRING CONNECTIONS PER MANUFACTURER'S RECOMMENDATIONS AND ADJUST FOR MAXIMUM COVERAGE IN THE FIELD. REFER TO OCCUPANCY SENSOR WIRING DIAGRAMS ON DRAWING E701 FOR MORE INFORMATION. BASIS OF DESIGN:
- CEILING MOUNTED: HUBBELL OMNIDT200 (360°, 22' RADIUS)
   WALL MOUNTED: HUBBELL CONTROLS: LHMTS1-24V-WH
- 7. KEYED NOTES MAY NOT APPEAR ON ALL PLAN VIEWS.
- 8. SEE DRAWINGS E002-E004 FOR ELECTRICAL PANEL LOCATIONS.

#### **NEW WORK KEYED NOTES**

- EC SHALL FURNISH AND INSTALL ALL NEW LIGHTING AS SHOWN ON THE ARCHITECTURAL DRAWINGS. MAKE CONNECTIONS TO THE EXISTING 277V LIGHTING CIRCUITS PRESERVED DURING DEMOLITION. PROVIDE ADDITIONAL WIRING AND SPLICES AS REQUIRED TO MAKE CONNECTIONS AND COORDINATE WITH LIGHTING CONTROLS AS SHOWN IN DETAIL 3/E701. MINIMUM WIRE SIZE SHALL BE #12 AWG CU.
- E2 EC SHALL CONNECT POWER SUPPLY TO NEW SPEAKERS AND INSTALL AS INDICATED ON ARCHITECTURAL REFLECTED CEILING PLAN. PROVIDE ADDITIONAL WIRING AND SPLICES AS REQUIRED TO MAKE CONNECTIONS. MINIMUM WIRE SIZE SHALL BE #12 AWG CU.
- E3 EC SHALL FURNISH AND INSTALL CEILING MOUNTED OCCUPANCY SENSOR FOR AUTOMATIC LIGHTING CONTROL. PROVIDE SPLICES AND EXTEND EXISTING CIRCUITS AS REQUIRED TO ENSURE THE SENSOR IS COORDINATED WITH THE WALL MOUNTED SWITCH TO MEET THE DESIGN INTENT. MINIMUM WIRE SIZE SHALL BE #12 AWG
- LIGHTING FIXTURE TO PROVIDE EGRESS LIGHTING. EC SHALL FURNISH AND INSTALL GENERATOR TRANSFER DEVICE AND CONNECT THE PRESERVED NORMAL LIGHTING CIRCUIT AND PRESERVED EMERGENCY CIRCUIT TO ENSURE LIGHT IS PROVIDED POWER FROM EMERGENCY CIRCUIT DURING NORMAL POWER OUTAGE. REFER TO DETAIL 6/E701 FOR MORE INFORMATION.
- LIGHTING FIXTURE TO OPERATE AS 'NIGHT LIGHT' FIXTURE AND PROVIDE EGRESS LIGHTING IN THE EVENT OF LOSS OF NORMAL POWER. EC SHALL PROVIDE POWER IN THE SPACE. PROVIDE POWER TO FIXTURE FROM THE EMERGENCY CIRCUIT AT A POINT AHEAD OF ANY SWITCHING. LIGHT TO REMAIN ON AT ALL TIMES.
- EC SHALL REPLACE IN-KIND FIRE ALARM NOTIFICATION APPLIANCE AND INITIATION DEVICES AS INDICATED ON ARCHITECTURAL REFLECTED CEILING PLAN. FURNISH AND INSTALL RECESSED BACKBOX AND CEILING TILE SUPPORT BRACKETS AS NEEDED. PROPERLY EXTEND CIRCUITING AS REQUIRED.



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Contact: Kevin Sultanik

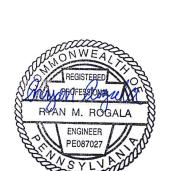
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PHILADELPHIA, PA 19125



REVISIONS:

No. Description Date

PENNSYLVANIA ONVENTION CENTER

#### REFLECTED CEILING PLAN -ROOM X (SEMINAR)

Project number CW1615

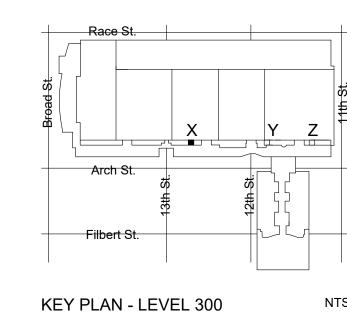
Date November 25, 2019

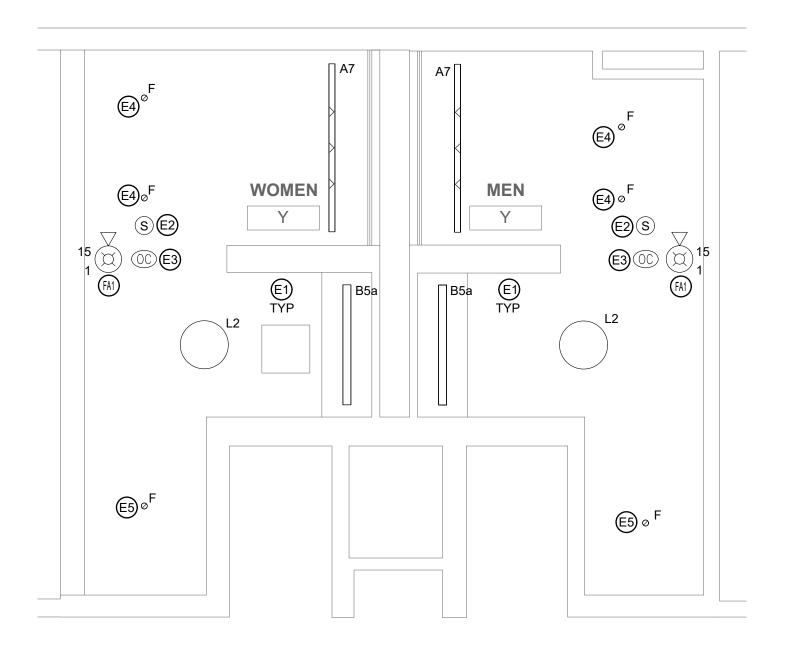
Drawn by RR,AS

Checked by

E620

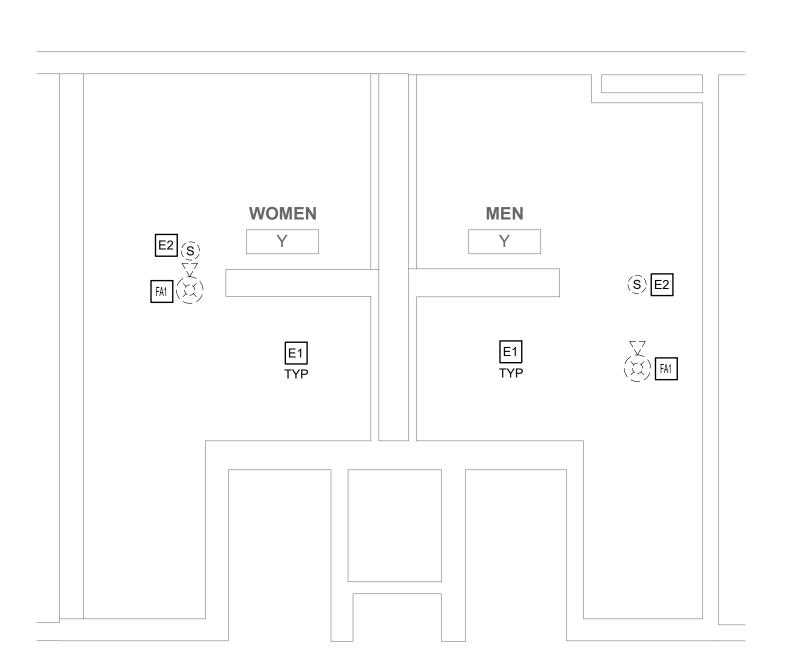
ale 1/4" = 1'-0"





REFLECTED CEILING PLAN - MEN'S & WOMEN'S ROOM Y

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



1 DEMO PLAN - MEN'S & WOMEN'S ROOM Y
E621 SCALE: 1/4" = 1'-0"

#### **GENERAL DEMOLITION NOTES**

- 1. SEE DRAWING E001 FOR GENERAL NOTES, SYMBOLS, AND ABBREVIATIONS.
- 2. PRIOR TO THE START OF WORK, EC SHALL LOCATE ALL LIGHTING AND POWER PANEL SUPPLY CIRCUITS FOR THE WORK AREA AND RECORD PANEL AND CIRCUIT NUMBER ON RECORD DRAWINGS.
- EC SHALL FIELD INVESTIGATE EXISTING LIGHT FIXTURES TO VERIFY NORMAL AND EMERGENCY FIXTURE VOLTAGES AND ENSURE NEW LIGHTING FIXTURES ARE SELECTED WITH VOLTAGES TO MATCH EXISTING.
- 4. EC SHALL REMOVE AND DISPOSE OF ALL LIGHT FIXTURES WITHIN THE WORK AREA. TAG AND PRESERVE EXISTING LIGHTING CIRCUITS FOR FUTURE RECONNECTION TO NEW LIGHTING FIXTURES.
- 5. FURNISH AND INSTALL JUNCTION BOXES WHERE REQUIRED TO CONTINUE CIRCUITS OUTSIDE OF WORK AREA.
- 6. KEYED NOTES MAY NOT APPEAR ON ALL PLAN VIEWS.

#### **DEMOLITION KEYED NOTES**

- E1 EC SHALL REMOVE AND DISPOSE OF ALL LIGHT FIXTURES WITHIN THE WORK AREA. PRESERVE EXISTING LIGHTING CIRCUITS FOR FUTURE RECONNECTION TO NEW LIGHTING FIXTURES.
- E2 EC SHALL REMOVE AND DISPOSE OF CEILING-MOUNTED SPEAKERS. EC SHALL DISCONNECT POWER SUPPLY TO SPEAKERS AND PRESERVE FOR NEW SPEAKER INSTALLATION IN NEW LOCATION. REFER TO ARCHITECTURAL REFLECTED CEILING PLAN FOR PROPOSED LAYOUT.
- EC SHALL REMOVE AND DISCONNECT FIRE ALARM DEVICES WITHIN THE DESIGNATED AREA OF WORK TO ACCOMMODATE CEILING REPLACEMENT. SUPPORT EXISTING FIRE ALARM WIRING FOR TERMINATION TO BE REINSTALLED AS INDICATED ON ARCHITECTURAL REFLECTED CEILING PLAN. CIRCUIT CONTINUITY MUST BE MAINTAINED AT ALL TIMES AS NOT TO AFFECT REMAINING DEVICES NOT INCLUDED IN THIS WORK. ALL WIRING SHALL BE TAGGED AS REQUIRED FOR REINSTALLATION OF NEW DEVICES.

#### GENERAL NEW WORK NOTES

- 1. SEE DRAWING E001 FOR GENERAL NOTES, SYMBOLS, AND ABBREVIATIONS.
- 2. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE LATEST ADOPTED EDITION OF THE NEC.
- 3. ALL CONDUCTORS SHALL BE CU AND THHN/THWN UNLESS OTHERWISE NOTED.
- IN NO CASE SHALL A 277V, 20A/1P CIRCUIT BE LOADED TO OVER 4.432KW OR A 120V, 20A/1P CIRCUIT BE LOADED TO OVER 1.92KW. MAKE CHANGES AS REQUIRED TO ENSURE COMPLIANT LOADING ON BREAKERS.
- 5. EC TO TRACE ALL CIRCUITS BACK TO SOURCE AND TAKE LOAD READINGS ON CIRCUITS AND PANELBOARD AS REQUIRED TO VERIFY CODE COMPLIANT LOADING AFTER PROJECT IS COMPLETE. MAKE ADJUSTMENTS AS REQUIRED. EC TO RELABEL ALL CIRCUIT DIRECTORIES FOR NEW CONFIGURATION AS REQUIRED AND PROVIDE AS-BUILTS TO CLIENT.
- 6. BASIS OF DESIGN FOR OCCUPANCY SENSORS IS AS FOLLOWS. EC SHALL MAKE ALL NECESSARY WIRING CONNECTIONS PER MANUFACTURER'S RECOMMENDATIONS AND ADJUST FOR MAXIMUM COVERAGE IN THE FIELD. REFER TO OCCUPANCY SENSOR WIRING DIAGRAMS ON DRAWING E701 FOR MORE INFORMATION. BASIS OF DESIGN:
- CEILING MOUNTED: HUBBELL OMNIDT200 (360°, 22' RADIUS)
   WALL MOUNTED: HUBBELL CONTROLS: LHMTS1-24V-WH
- 7. KEYED NOTES MAY NOT APPEAR ON ALL PLAN VIEWS.
- 8. SEE DRAWINGS E002-E004 FOR ELECTRICAL PANEL LOCATIONS.

#### **NEW WORK KEYED NOTES**

- EC SHALL FURNISH AND INSTALL ALL NEW LIGHTING AS SHOWN ON THE ARCHITECTURAL DRAWINGS. MAKE CONNECTIONS TO THE EXISTING 277V LIGHTING CIRCUITS PRESERVED DURING DEMOLITION. PROVIDE ADDITIONAL WIRING AND SPLICES AS REQUIRED TO MAKE CONNECTIONS AND COORDINATE WITH LIGHTING CONTROLS AS SHOWN IN DETAIL 3/E701. MINIMUM WIRE SIZE SHALL BE #12 AWG CU.
- E2 EC SHALL CONNECT POWER SUPPLY TO NEW SPEAKERS AND INSTALL AS INDICATED ON ARCHITECTURAL REFLECTED CEILING PLAN. PROVIDE ADDITIONAL WIRING AND SPLICES AS REQUIRED TO MAKE CONNECTIONS. MINIMUM WIRE SIZE SHALL BE #12 AWG CU.
- E3 EC SHALL FURNISH AND INSTALL CEILING MOUNTED OCCUPANCY SENSOR FOR AUTOMATIC LIGHTING CONTROL. PROVIDE SPLICES AND EXTEND EXISTING CIRCUITS AS REQUIRED TO ENSURE THE SENSOR IS COORDINATED WITH THE WALL MOUNTED SWITCH TO MEET THE DESIGN INTENT. MINIMUM WIRE SIZE SHALL BE #12 AWG CU.
- LIGHTING FIXTURE TO PROVIDE EGRESS LIGHTING. EC SHALL FURNISH AND INSTALL GENERATOR TRANSFER DEVICE AND CONNECT THE PRESERVED NORMAL LIGHTING CIRCUIT AND PRESERVED EMERGENCY CIRCUIT TO ENSURE LIGHT IS PROVIDED POWER FROM EMERGENCY CIRCUIT DURING NORMAL POWER OUTAGE. REFER TO DETAIL 6/E701 FOR MORE INFORMATION.
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- EC SHALL REPLACE IN-KIND FIRE ALARM NOTIFICATION APPLIANCE AND INITIATION DEVICES AS INDICATED ON ARCHITECTURAL REFLECTED CEILING PLAN. FURNISH AND INSTALL RECESSED BACKBOX AND CEILING TILE SUPPORT BRACKETS AS NEEDED. PROPERLY EXTEND CIRCUITING AS REQUIRED.

**KEY PLAN - LEVEL 300** 



**MEP ENGINEERS:** 



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**REVISIONS:** 

No. Description Date

PENNSYLVANIA CONVENTION CENTER

> REFLECTED CEILING PLAN -ROOM Y (SEMINAR)

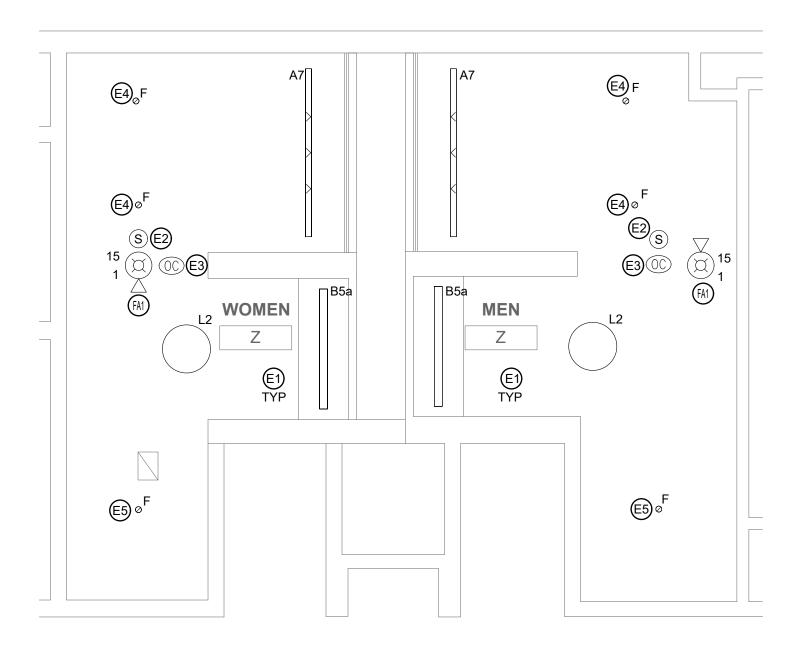
Project number CW1615

Date November 25, 2019

Drawn by RR,AS

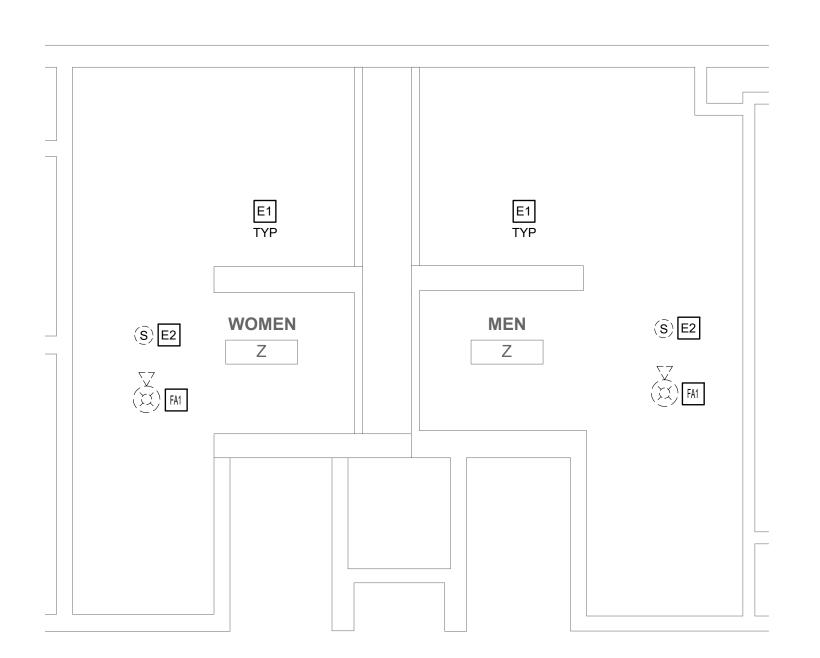
E621

Scale 1/4" = 1'-0"



REFLECTED CEILING PLAN - MEN'S & WOMEN'S ROOM Z

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



DEMO PLAN - MEN'S & WOMEN'S ROOM Z

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

#### **GENERAL DEMOLITION NOTES**

- 1. SEE DRAWING E001 FOR GENERAL NOTES, SYMBOLS, AND ABBREVIATIONS.
- PRIOR TO THE START OF WORK, EC SHALL LOCATE ALL LIGHTING AND POWER PANEL SUPPLY CIRCUITS FOR THE WORK AREA AND RECORD PANEL AND CIRCUIT NUMBER ON RECORD DRAWINGS.
- EC SHALL FIELD INVESTIGATE EXISTING LIGHT FIXTURES TO VERIFY NORMAL AND EMERGENCY FIXTURE VOLTAGES AND ENSURE NEW LIGHTING FIXTURES ARE SELECTED WITH VOLTAGES TO MATCH EXISTING.
- 4. EC SHALL REMOVE AND DISPOSE OF ALL LIGHT FIXTURES WITHIN THE WORK AREA. TAG AND PRESERVE EXISTING LIGHTING CIRCUITS FOR FUTURE RECONNECTION TO NEW LIGHTING FIXTURES.
- 5. FURNISH AND INSTALL JUNCTION BOXES WHERE REQUIRED TO CONTINUE CIRCUITS OUTSIDE OF WORK AREA.
- 6. KEYED NOTES MAY NOT APPEAR ON ALL PLAN VIEWS.

#### **DEMOLITION KEYED NOTES**

- E1 EC SHALL REMOVE AND DISPOSE OF ALL LIGHT FIXTURES WITHIN THE WORK AREA. PRESERVE EXISTING LIGHTING CIRCUITS FOR FUTURE RECONNECTION TO NEW LIGHTING FIXTURES.
- E2 EC SHALL REMOVE AND DISPOSE OF CEILING-MOUNTED SPEAKERS. EC SHALL DISCONNECT POWER SUPPLY TO SPEAKERS AND PRESERVE FOR NEW SPEAKER INSTALLATION IN NEW LOCATION. REFER TO ARCHITECTURAL REFLECTED CEILING PLAN FOR PROPOSED LAYOUT.
- EC SHALL REMOVE AND DISCONNECT FIRE ALARM DEVICES WITHIN THE DESIGNATED AREA OF WORK TO ACCOMMODATE CEILING REPLACEMENT. SUPPORT EXISTING FIRE ALARM WIRING FOR TERMINATION TO BE REINSTALLED AS INDICATED ON ARCHITECTURAL REFLECTED CEILING PLAN. CIRCUIT CONTINUITY MUST BE MAINTAINED AT ALL TIMES AS NOT TO AFFECT REMAINING DEVICES NOT INCLUDED IN THIS WORK. ALL WIRING SHALL BE TAGGED AS REQUIRED FOR REINSTALLATION OF NEW DEVICES.

#### GENERAL NEW WORK NOTES

- 1. SEE DRAWING E001 FOR GENERAL NOTES, SYMBOLS, AND ABBREVIATIONS.
- 2. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE LATEST ADOPTED EDITION OF THE NEC.
- 3. ALL CONDUCTORS SHALL BE CU AND THHN/THWN UNLESS OTHERWISE NOTED.
- IN NO CASE SHALL A 277V, 20A/1P CIRCUIT BE LOADED TO OVER 4.432KW OR A 120V, 20A/1P CIRCUIT BE LOADED TO OVER 1.92KW. MAKE CHANGES AS REQUIRED TO ENSURE COMPLIANT LOADING ON BREAKERS.
- 5. EC TO TRACE ALL CIRCUITS BACK TO SOURCE AND TAKE LOAD READINGS ON CIRCUITS AND PANELBOARD AS REQUIRED TO VERIFY CODE COMPLIANT LOADING AFTER PROJECT IS COMPLETE. MAKE ADJUSTMENTS AS REQUIRED. EC TO RELABEL ALL CIRCUIT DIRECTORIES FOR NEW CONFIGURATION AS REQUIRED AND PROVIDE AS-BUILTS TO CLIENT.
- 6. BASIS OF DESIGN FOR OCCUPANCY SENSORS IS AS FOLLOWS. EC SHALL MAKE ALL NECESSARY WIRING CONNECTIONS PER MANUFACTURER'S RECOMMENDATIONS AND ADJUST FOR MAXIMUM COVERAGE IN THE FIELD. REFER TO OCCUPANCY SENSOR WIRING DIAGRAMS ON DRAWING E701 FOR MORE INFORMATION. BASIS OF DESIGN:
- CEILING MOUNTED: HUBBELL OMNIDT200 (360°, 22' RADIUS)
   WALL MOUNTED: HUBBELL CONTROLS: LHMTS1-24V-WH
- 7. KEYED NOTES MAY NOT APPEAR ON ALL PLAN VIEWS.
- 8. SEE DRAWINGS E002-E004 FOR ELECTRICAL PANEL LOCATIONS.

#### **NEW WORK KEYED NOTES**

- EC SHALL FURNISH AND INSTALL ALL NEW LIGHTING AS SHOWN ON THE ARCHITECTURAL DRAWINGS. MAKE CONNECTIONS TO THE EXISTING 277V LIGHTING CIRCUITS PRESERVED DURING DEMOLITION. PROVIDE ADDITIONAL WIRING AND SPLICES AS REQUIRED TO MAKE CONNECTIONS AND COORDINATE WITH LIGHTING CONTROLS AS SHOWN IN DETAIL 3/E701. MINIMUM WIRE SIZE SHALL BE #12 AWG CU.
- E2 EC SHALL CONNECT POWER SUPPLY TO NEW SPEAKERS AND INSTALL AS INDICATED ON ARCHITECTURAL REFLECTED CEILING PLAN. PROVIDE ADDITIONAL WIRING AND SPLICES AS REQUIRED TO MAKE CONNECTIONS. MINIMUM WIRE SIZE SHALL BE #12 AWG CU.
- E3 EC SHALL FURNISH AND INSTALL CEILING MOUNTED OCCUPANCY SENSOR FOR AUTOMATIC LIGHTING CONTROL. PROVIDE SPLICES AND EXTEND EXISTING CIRCUITS AS REQUIRED TO ENSURE THE SENSOR IS COORDINATED WITH THE WALL MOUNTED SWITCH TO MEET THE DESIGN INTENT. MINIMUM WIRE SIZE SHALL BE #12 AWG CI
- LIGHTING FIXTURE TO PROVIDE EGRESS LIGHTING. EC SHALL FURNISH AND INSTALL GENERATOR TRANSFER DEVICE AND CONNECT THE PRESERVED NORMAL LIGHTING CIRCUIT AND PRESERVED EMERGENCY CIRCUIT TO ENSURE LIGHT IS PROVIDED POWER FROM EMERGENCY CIRCUIT DURING NORMAL POWER OUTAGE. REFER TO DETAIL 6/E701 FOR MORE INFORMATION.
- LIGHTING FIXTURE TO OPERATE AS 'NIGHT LIGHT' FIXTURE AND PROVIDE EGRESS LIGHTING IN THE EVENT OF LOSS OF NORMAL POWER. EC SHALL PROVIDE POWER IN THE SPACE. PROVIDE POWER TO FIXTURE FROM THE EMERGENCY CIRCUIT AT A POINT AHEAD OF ANY SWITCHING. LIGHT TO REMAIN ON AT ALL TIMES.
- EC SHALL REPLACE IN-KIND FIRE ALARM NOTIFICATION APPLIANCE AND INITIATION DEVICES AS INDICATED ON ARCHITECTURAL REFLECTED CEILING PLAN. FURNISH AND INSTALL RECESSED BACKBOX AND CEILING TILE SUPPORT BRACKETS AS NEEDED. PROPERLY EXTEND CIRCUITING AS REQUIRED.

**KEY PLAN - LEVEL 300** 



MEP ENGINEERS:



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STRUCTURAL ENGINEERS: CSA GROUP 1341 NORTH DELAWARE AVENUE, SUITE 507

Ph: 215.427.8700 Fax: 215.427.8752

Contact: Wing Au e-mail: wau@csagroup.com

PHILADELPHIA, PA 19125



No. Description Date

**REVISIONS:** 

PENNSYLVANIA CONVENTION CENTER

REFLECTED
CEILING PLAN ROOM Z
(SEMINAR)

NTS Dra

Date November 25, 2019
Drawn by RR,AS
Checked by HL

E622

cale 1/4" = 1'-0"

- RECORD PANEL AND CIRCUIT NUMBER ON RECORD DRAWINGS.
- NORMAL AND EMERGENCY FIXTURE VOLTAGES AND ENSURE NEW LIGHTING FIXTURES ARE SELECTED WITH VOLTAGES TO MATCH
- 4. EC SHALL REMOVE AND DISPOSE OF ALL LIGHT FIXTURES WITHIN THE WORK AREA. TAG AND PRESERVE EXISTING LIGHTING CIRCUITS FOR FUTURE RECONNECTION TO NEW LIGHTING FIXTURES.
- 6. KEYED NOTES MAY NOT APPEAR ON ALL PLAN VIEWS.

#### **DEMOLITION KEYED NOTES**

- E1 EC SHALL REMOVE AND DISPOSE OF ALL LIGHT FIXTURES WITHIN THE WORK AREA PRESERVE EXISTING LIGHTING CIRCLITS FOR THE WORK AREA. PRESERVE EXISTING LIGHTING CIRCUITS FOR FUTURE RECONNECTION TO NEW LIGHTING FIXTURES.
- EC SHALL DISCONNECT POWER SUPPLY TO SPEAKERS AND PRESERVE FOR NEW SPEAKER INSTALLATION IN NEW LOCATION. REFER TO ARCHITECTURAL REFLECTED CEILING PLAN FOR PROPOSED LAYOUT.
- THE DESIGNATED AREA OF WORK TO ACCOMMODATE CEILING REPLACEMENT. SUPPORT EXISTING FIRE ALARM WIRING FOR TERMINATION TO BE REINSTALLED AS INDICATED ON DEVICES NOT INCLUDED IN THIS WORK, ALL WIRING SHALL BE TAGGED AS REQUIRED FOR REINSTALLATION OF NEW DEVICES.

# $\bigcirc$ FA1 **WOMEN** A1 A1

- 1. SEE DRAWING E001 FOR GENERAL NOTES, SYMBOLS, AND
- 2. PRIOR TO THE START OF WORK, EC SHALL LOCATE ALL LIGHTING AND POWER PANEL SUPPLY CIRCUITS FOR THE WORK AREA AND
- 3. EC SHALL FIELD INVESTIGATE EXISTING LIGHT FIXTURES TO VERIFY EXISTING.
- 5. FURNISH AND INSTALL JUNCTION BOXES WHERE REQUIRED TO CONTINUE CIRCUITS OUTSIDE OF WORK AREA.

- E2 EC SHALL REMOVE AND DISPOSE OF CEILING-MOUNTED SPEAKERS.
- FAI | EC SHALL REMOVE AND DISCONNECT FIRE ALARM DEVICES WITHIN ARCHITECTURAL REFLECTED CEILING PLAN. CIRCUIT CONTINUITY MUST BE MAINTAINED AT ALL TIMES AS NOT TO AFFECT REMAINING

#### **GENERAL NEW WORK NOTES**

- 1. SEE DRAWING E001 FOR GENERAL NOTES, SYMBOLS, AND ABBREVIATIONS.
- 2. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE LATEST ADOPTED EDITION OF THE NEC.
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- 4. IN NO CASE SHALL A 277V, 20A/1P CIRCUIT BE LOADED TO OVER 4.432KW OR A 120V, 20A/1P CIRCUIT BE LOADED TO OVER 1.92KW. MAKE CHANGES AS REQUIRED TO ENSURE COMPLIANT LOADING ON
- 5. EC TO TRACE ALL CIRCUITS BACK TO SOURCE AND TAKE LOAD READINGS ON CIRCUITS AND PANELBOARD AS REQUIRED TO VERIFY CODE COMPLIANT LOADING AFTER PROJECT IS COMPLETE. MAKE ADJUSTMENTS AS REQUIRED. EC TO RELABEL ALL CIRCUIT DIRECTORIES FOR NEW CONFIGURATION AS REQUIRED AND PROVIDE AS-BUILTS TO CLIENT.
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  - CEILING MOUNTED: HUBBELL OMNIDT200 (360°, 22' RADIUS) WALL MOUNTED: HUBBELL CONTROLS: LHMTS1-24V-WH
- 7. KEYED NOTES MAY NOT APPEAR ON ALL PLAN VIEWS.
- 8. SEE DRAWINGS E002-E004 FOR ELECTRICAL PANEL LOCATIONS.

#### **NEW WORK KEYED NOTES**

- E1 EC SHALL FURNISH AND INSTALL ALL NEW LIGHTING AS SHOWN ON THE ARCHITECTURAL DRAWINGS. MAKE CONNECTIONS TO THE EXISTING 277V LIGHTING CIRCUITS PRESERVED DURING DEMOLITION. PROVIDE ADDITIONAL WIRING AND SPLICES AS REQUIRED TO MAKE CONNECTIONS AND COORDINATE WITH LIGHTING CONTROLS AS SHOWN IN DETAIL 3/E701. MINIMUM WIRE SIZE SHALL BE #12 AWG CU.
- E2 EC SHALL CONNECT POWER SUPPLY TO NEW SPEAKERS AND INSTALL AS INDICATED ON ARCHITECTURAL REFLECTED CEILING PLAN. PROVIDE ADDITIONAL WIRING AND SPLICES AS REQUIRED TO MAKE CONNECTIONS. MINIMUM WIRE SIZE SHALL BE #12 AWG
- (E3) EC SHALL FURNISH AND INSTALL CEILING MOUNTED OCCUPANCY SENSOR FOR AUTOMATIC LIGHTING CONTROL. PROVIDE SPLICES AND EXTEND EXISTING CIRCUITS AS REQUIRED TO ENSURE THE SENSOR IS COORDINATED WITH THE WALL MOUNTED SWITCH TO MEET THE DESIGN INTENT. MINIMUM WIRE SIZE SHALL BE #12 AWG
- (E4) LIGHTING FIXTURE TO PROVIDE EGRESS LIGHTING. EC SHALL FURNISH AND INSTALL GENERATOR TRANSFER DEVICE AND CONNECT THE PRESERVED NORMAL LIGHTING CIRCUIT AND PRESERVED EMERGENCY CIRCUIT TO ENSURE LIGHT IS PROVIDED POWER FROM EMERGENCY CIRCUIT DURING NORMAL POWER OUTAGE. REFER TO DETAIL 6/E701 FOR MORE INFORMATION.
- (E5) LIGHTING FIXTURE TO OPERATE AS 'NIGHT LIGHT' FIXTURE AND PROVIDE EGRESS LIGHTING IN THE EVENT OF LOSS OF NORMAL POWER. EC SHALL PROVIDE POWER IN THE SPACE. PROVIDE POWER TO FIXTURE FROM THE EMERGENCY CIRCUIT AT A POINT AHEAD OF ANY SWITCHING. LIGHT TO REMAIN ON AT ALL TIMES.
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CONVERSE WINKLER ARCHITECTURE 331 MONTGOMERY AVE BALA CYNWYD, PA 19144

**MEP ENGINEERS:** 



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Ph: 215.427.8700 Fax: 215.427.8752

Contact: Wing Au e-mail: wau@csagroup.com



**REVISIONS:** Description Date

REFLECTED **CEILING PLAN -ROOM A1** (BALLROOM)

CW1615 Project number November 25, 2019

RR,AS Drawn by Checked by

E623

1/4" = 1'-0"

REFLECTED CEILING PLAN - MEN'S & WOMEN'S ROOM A1

E623 SCALE: 1/4" = 1'-0"

A1

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FAI (15)

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**€**5 *∞* F

(C) (E3)

E4

E4

©E4

WOMEN

A1

1 DEMO PLAN - MEN'S & WOMEN'S ROOM A1 E623 SCALE: 1/4" = 1'-0"

KEY PLAN - BALLROOM LEVEL

- 1. SEE DRAWING E001 FOR GENERAL NOTES, SYMBOLS, AND
- 2. PRIOR TO THE START OF WORK, EC SHALL LOCATE ALL LIGHTING AND POWER PANEL SUPPLY CIRCUITS FOR THE WORK AREA AND RECORD PANEL AND CIRCUIT NUMBER ON RECORD DRAWINGS.
- 3. EC SHALL FIELD INVESTIGATE EXISTING LIGHT FIXTURES TO VERIFY NORMAL AND EMERGENCY FIXTURE VOLTAGES AND ENSURE NEW LIGHTING FIXTURES ARE SELECTED WITH VOLTAGES TO MATCH EXISTING.
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- 5. FURNISH AND INSTALL JUNCTION BOXES WHERE REQUIRED TO CONTINUE CIRCUITS OUTSIDE OF WORK AREA.
- 6. KEYED NOTES MAY NOT APPEAR ON ALL PLAN VIEWS.

#### **DEMOLITION KEYED NOTES**

- E1 EC SHALL REMOVE AND DISPOSE OF ALL LIGHT FIXTURES WITHIN THE WORK AREA PRESERVE EXISTING LIGHTING CIRCLIES FOR THE WORK AREA. PRESERVE EXISTING LIGHTING CIRCUITS FOR FUTURE RECONNECTION TO NEW LIGHTING FIXTURES.
- E2 EC SHALL REMOVE AND DISPOSE OF CEILING-MOUNTED SPEAKERS. EC SHALL DISCONNECT POWER SUPPLY TO SPEAKERS AND PRESERVE FOR NEW SPEAKER INSTALLATION IN NEW LOCATION. REFER TO ARCHITECTURAL REFLECTED CEILING PLAN FOR PROPOSED LAYOUT.
- FAI EC SHALL REMOVE AND DISCONNECT FIRE ALARM DEVICES WITHIN THE DESIGNATED AREA OF WORK TO ACCOMMODATE CEILING REPLACEMENT. SUPPORT EXISTING FIRE ALARM WIRING FOR TERMINATION TO BE REINSTALLED AS INDICATED ON ARCHITECTURAL REFLECTED CEILING PLAN. CIRCUIT CONTINUITY MUST BE MAINTAINED AT ALL TIMES AS NOT TO AFFECT REMAINING DEVICES NOT INCLUDED IN THIS WORK. ALL WIRING SHALL BE TAGGED AS REQUIRED FOR REINSTALLATION OF NEW DEVICES.

## FAI FA1 A2 WOMEN A2

#### 2 REFLECTED CEILING PLAN - MEN'S & WOMEN'S ROOM A2 E624 SCALE: 1/4" = 1'-0"

€4<sub>∞</sub>F

E4<sub>F</sub>

€4<sub>o</sub>F

**WOMEN** 

A2

FA1 15

€4° °F

©E4

€4<sup>°</sup>F

°**€**4

A13

©E4

MEN

A2

oF (E4)

FA1 15

©E4

©<sup>I</sup> €4



#### **GENERAL NEW WORK NOTES**

- 1. SEE DRAWING E001 FOR GENERAL NOTES, SYMBOLS, AND ABBREVIATIONS.
- 2. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE LATEST ADOPTED EDITION OF THE NEC.
- 3. ALL CONDUCTORS SHALL BE CU AND THHN/THWN UNLESS OTHERWISE NOTED.
- 4. IN NO CASE SHALL A 277V, 20A/1P CIRCUIT BE LOADED TO OVER 4.432KW OR A 120V, 20A/1P CIRCUIT BE LOADED TO OVER 1.92KW. MAKE CHANGES AS REQUIRED TO ENSURE COMPLIANT LOADING ON
- 5. EC TO TRACE ALL CIRCUITS BACK TO SOURCE AND TAKE LOAD READINGS ON CIRCUITS AND PANELBOARD AS REQUIRED TO VERIFY CODE COMPLIANT LOADING AFTER PROJECT IS COMPLETE. MAKE ADJUSTMENTS AS REQUIRED. EC TO RELABEL ALL CIRCUIT DIRECTORIES FOR NEW CONFIGURATION AS REQUIRED AND PROVIDE AS-BUILTS TO CLIENT.
- BASIS OF DESIGN FOR OCCUPANCY SENSORS IS AS FOLLOWS. EC SHALL MAKE ALL NECESSARY WIRING CONNECTIONS PER MANUFACTURER'S RECOMMENDATIONS AND ADJUST FOR MAXIMUM COVERAGE IN THE FIELD. REFER TO OCCUPANCY SENSOR WIRING DIAGRAMS ON DRAWING E701 FOR MORE INFORMATION.
  - CEILING MOUNTED: HUBBELL OMNIDT200 (360°, 22' RADIUS) WALL MOUNTED: HUBBELL CONTROLS: LHMTS1-24V-WH
- 7. KEYED NOTES MAY NOT APPEAR ON ALL PLAN VIEWS.
- 8. SEE DRAWINGS E002-E004 FOR ELECTRICAL PANEL LOCATIONS.

#### NEW WORK KEYED NOTES

- E1 EC SHALL FURNISH AND INSTALL ALL NEW LIGHTING AS SHOWN ON THE ARCHITECTURAL DRAWINGS. MAKE CONNECTIONS TO THE EXISTING 277V LIGHTING CIRCUITS PRESERVED DURING DEMOLITION. PROVIDE ADDITIONAL WIRING AND SPLICES AS REQUIRED TO MAKE CONNECTIONS AND COORDINATE WITH LIGHTING CONTROLS AS SHOWN IN DETAIL 3/E701. MINIMUM WIRE SIZE SHALL BE #12 AWG CU.
- E2 EC SHALL CONNECT POWER SUPPLY TO NEW SPEAKERS AND INSTALL AS INDICATED ON ARCHITECTURAL REFLECTED CEILING PLAN. PROVIDE ADDITIONAL WIRING AND SPLICES AS REQUIRED TO MAKE CONNECTIONS. MINIMUM WIRE SIZE SHALL BE #12 AWG
- (E3) EC SHALL FURNISH AND INSTALL CEILING MOUNTED OCCUPANCY SENSOR FOR AUTOMATIC LIGHTING CONTROL. PROVIDE SPLICES AND EXTEND EXISTING CIRCUITS AS REQUIRED TO ENSURE THE SENSOR IS COORDINATED WITH THE WALL MOUNTED SWITCH TO MEET THE DESIGN INTENT. MINIMUM WIRE SIZE SHALL BE #12 AWG
- (E4) LIGHTING FIXTURE TO PROVIDE EGRESS LIGHTING. EC SHALL FURNISH AND INSTALL GENERATOR TRANSFER DEVICE AND CONNECT THE PRESERVED NORMAL LIGHTING CIRCUIT AND PRESERVED EMERGENCY CIRCUIT TO ENSURE LIGHT IS PROVIDED POWER FROM EMERGENCY CIRCUIT DURING NORMAL POWER OUTAGE. REFER TO DETAIL 6/E701 FOR MORE INFORMATION.
- (E5) LIGHTING FIXTURE TO OPERATE AS 'NIGHT LIGHT' FIXTURE AND PROVIDE EGRESS LIGHTING IN THE EVENT OF LOSS OF NORMAL POWER. EC SHALL PROVIDE POWER IN THE SPACE. PROVIDE POWER TO FIXTURE FROM THE EMERGENCY CIRCUIT AT A POINT AHEAD OF ANY SWITCHING. LIGHT TO REMAIN ON AT ALL TIMES.
- EC SHALL REPLACE IN-KIND FIRE ALARM NOTIFICATION APPLIANCE AND INITIATION DEVICES AS INDICATED ON ARCHITECTURAL REFLECTED CEILING PLAN. FURNISH AND INSTALL RECESSED BACKBOX AND CEILING TILE SUPPORT BRACKETS AS NEEDED. PROPERLY EXTEND CIRCUITING AS REQUIRED.

KEY PLAN - BALLROOM LEVEL



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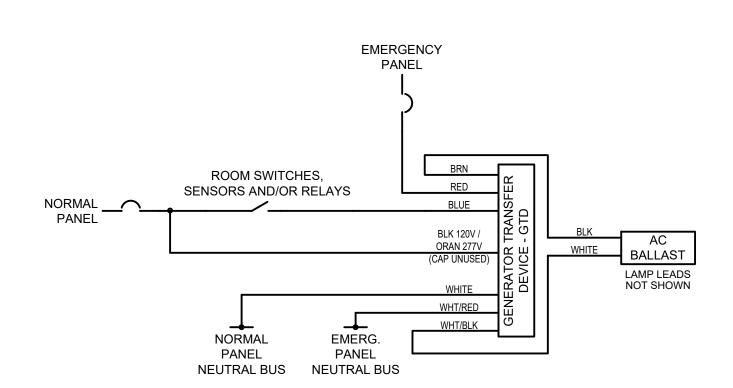


REVISIONS:		
No.	Description	Date

REFLECTED **CEILING PLAN -**ROOM A2 (BALLROOM)

CW1615 Project number November 25, 2019 RR,AS

Checked by E624



1. EMERGENCY LIGHTING TRANSFER DEVICE WIRING IS BASED ON BODINE GTD EMERGENCY LIGHTING CONTROL DEVICE. CONTRACTOR SHALL MAKE ANY FIELD WIRING MODIFICATIONS NECESSARY TO ACHIEVE DESIGN INTENT

**6** EMERGENCY LIGHTING TRANSFER DEVICE WIRING DIAGRAM E701 NOT TO SCALE

> 480V - EQUIPMENT GROUNDING CONDUCTOR DRY-TYPE — TRANSFORMER OUTSIDE INSIDE NEAREST GROUNDING ELECTRODE (TYP) (SEE NOTE **EQUIPMENT BONDING** 208Y/120V WATER -JUMPER (SIZED PER PIPE 250.66) WITHIN - SYSTEM BONDING JUMPER (SEE NOTE #1) - NEUTRAL TERMINAL BAR NEAREST GROUNDING ELECTRODE -

SENSOR

CEILING MOUNT OCCUPANCY

WALL MOUNT OCCUPANCY

SENSOR/SWITCH

1. LOW VOLTAGE OCCUPANCY SENSOR WIRING DIAGRAM IS BASED ON HUBBELL CONTRACTOR SHALL MAKE ANY FIELD WIRING MODIFICATIONS NECESSARY TO ACHIEVE

20A POWER

PACK

2. REFER TO E001 FOR OCCUPANCY SENSOR DEVICE BASIS OF DESIGN.

# TYPICAL OCCUPANCY SENSOR WIRING DIAGRAM

**TRANSFORMER GROUNDING DETAIL** 

CONDUIT CLAMP BRANCH -CIRCUIT - CONTINUOUS SLOTTED CHANNEL STRUT CONDUITS **BOLTED TO WALL FOR INTERMEDIATE SUPPORT** OF CONDUIT. PROVIDE LENGTH AS REQUIRED. PANEL MTD. ON CONTINUOUS -MINIMUM 1/4" SPACE BEHIND PANEL SLOT CHANNEL. BOLT CHANNEL TO WALL. LENGTH TO BE DETERMINED IN FIELD. CONTINUOUS SLOT CHANNEL (TYP.) **PULL BOX** - CONCRETE WALL

**5** SURFACE MOUNT PANELBOARD E701 NOT TO SCALE

1. SYSTEM EQUIPMENT BONDING JUMPER (SIZED PER 250.66 & 12.5%)

(SEE NOTE #2)

- 2. GROUNDING ELECTRODE MUST BE THE CLOSEST OF STRUCTURAL METAL OR METAL WATER PIPE WITHIN 5' OF POINT
- OF ENTRY INTO BLDG. IF NEITHER IS AVAILABLE, ANY OTHER ACCEPTABLE ELECTRODE IS PERMITTED.
- 3. IF TYING MULTIPLE SEPARATELY DERIVED SYSTEMS TO A COMMON GEC, USE 500 KCMIL AS COMMON GEC, AND TAPS FROM EACH XFMR ARE SIZED PER 250.66 (COMMONLY USED IN HIGH RISE BLDGS THAT DO NOT HAVE STRUCTURAL METAL FRAMING.)



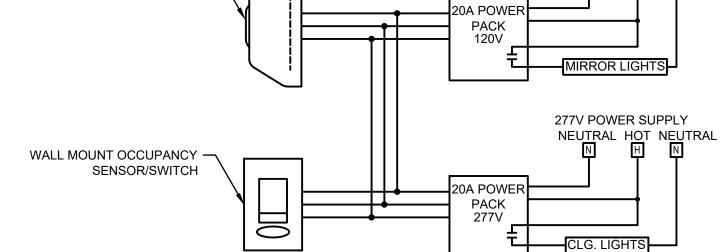
120V POWER SUPPLY CEILING MOUNT OCCUPANCY — SENSOR PACK 120V 277V POWER SUPPLY WALL MOUNT OCCUPANCY -SENSOR/SWITCH PACK 277V

E701 NOT TO SCALE

- GROUNDING ELECTRODE CONDUCTOR

(SIZED PER 250.66)

- 1. LOW VOLTAGE OCCUPANCY SENSOR WIRING DIAGRAM IS BASED ON HUBBELL. CONTRACTOR SHALL MAKE ANY FIELD WIRING MODIFICATIONS NECESSARY TO ACHIEVE DESIGN INTENT
- 2. REFER TO E001 FOR OCCUPANCY SENSOR DEVICE BASIS OF DESIGN.



(4) TYPICAL OCCUPANCY SENSOR WIRING DIAGRAM WITH EDGE LIT MIRRORS

NEW 30 KVA XFMR NOTE 2 NOTE 3 NOTE 4 NEW 80A MCB, 120/208V 3Ø, 4W PANEL 480/277 3Ø,4W PANEL 'PP-1B2' WITH NEW 45A 3P BREAKER SUBFEEDING 30 KVA XFMR 

- 1. THE INTENT IS TO FURNISH AND INSTALL A NEW SURFACE MOUNT 42 POLE, 80A MCB, 120/208V, 3Ø, 4W PANEL SUB-FED FROM A NEW 45A, 3 POLE CIRCUIT BREAKER IN AN EXISTING 480/277V 3Ø, 4W PANEL 'PP-1B2' IN THE DESIGNATED ELECTRICAL ROOM VIA NEW TRAPEZE MOUNTED 30KVA, 480-120/208V DELTA-WYE CONFIGURATION DRY TYPE TRANSFORMER (Z=2.5% MINIMUM). THE EC IS RESPONSIBLE FOR THE PHYSICAL LAYOUT OF THE DISTRIBUTION EQUIPMENT MEETING WORKING CLEARANCES, DEDICATED ELECTRICAL SPACE, AND ALL OTHER REQUIREMENTS OF THE NEC BASED ON ACTUAL FIELD CONDITIONS.
- 2. FURNISH AND INSTALL SQUARE D WALL MOUNTING BRACKET PART NUMBER 7400WMB18K20K.
- 3. FURNISH AND INSTALL (3) #6 AWG CU & (1) #6 GRD IN 1" CONDUIT FROM THE NEW 45A BREAKER TO FEED THE PRIMARY SIDE OF THE TRANSFORMER.
- 4. FURNISH AND INSTALL (4) #3 AWG CU & (1) #8 EQUIPMENT BONDING JUMPER IN 1-1/4" CONDUIT FROM THE SECONDARY SIDE OF THE TRANSFORMER TO THE 80A MAIN CIRCUIT BREAKER OF THE NEW PANEL.
- 6. REFER TO DETAIL 5/E701 FOR PANEL MOUNTING INFORMATION.
- 7. EC TO TAKE LOAD READINGS PER NEC 220.87 ON EXISTING 480V PANELBOARD AS REQUIRED TO VERIFY CODE COMPLIANT LOADING AFTER PROJECT IS COMPLETE. MAKE ADJUSTMENTS AS REQUIRED. EC TO RELABEL ALL CIRCUIT DIRECTORIES FOR NEW CONFIGURATION AS REQUIRED AND PROVIDE AS-BUILTS TO CLIENT.

**ELECTRICAL DETAILS AND** DIAGRAMS

O

CONVERSE WINKLER ARCHITECTURE 331 MONTGOMERY AVE BALA CYNWYD, PA 19144

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REVISIONS:

Description

**ELEC UPDATE** 

11/08/19

SUITE 507

CW1615 Project number November 25, 2019 RR,AS Drawn by Checked by

	LUN	IINAIRE S	CHEDULE				
FIXTURE TYPE	DESCRIPTION	MOUNTING	MANUFACTURER	CATALOG NUMBER	TYPE	TOTAL WATTS	VOLTS
A5	LED RECESSED 3IN WIDE LINEAR WALLWASHER, 5FT LONG	RECESSED	PINNACLE ARCHITECTURAL LIGHTING	EV3WW-835-5-SFS-U-OL1-1-0-W	LED	30	UNV
A6	LED RECESSED 3IN WIDE LINEAR WALL WASHER, 6FT LONG  LED RECESSED 3IN WIDE LINEAR WALL WASHER, 7FT LONG	RECESSED	PINNACLE ARCHITECTURAL LIGHTING	EV3WW-835-6-SFS-U-OL1-1-0-W	LED	36	UNV
A7 A8	LED RECESSED 3IN WIDE LINEAR WALL WASHER, 7FT LONG  LED RECESSED 3IN WIDE LINEAR WALL WASHER, 8FT LONG	RECESSED RECESSED	PINNACLE ARCHITECTURAL LIGHTING PINNACLE ARCHITECTURAL LIGHTING	EV3WW-835-7-SFS-U-OL1-1-0-W EV3WW-835- 8-SFS-U-OL1-1-0-W	LED	42	UNV
A0 	LED RECESSED 3IN WIDE LINEAR WALLWASHER, 9FT LONG	RECESSED	PINNACLE ARCHITECTURAL LIGHTING	EV3WW-835- 9 CR-SF-U-OL1-1-0-W	LED	54	UNV
A10	LED RECESSED 3IN WIDE LINEAR WALLWASHER, 10FT LONG	RECESSED	PINNACLE ARCHITECTURAL LIGHTING	EV3WW-835- 10 CR-SF-U-OL1-1-0-W	LED	50	UNV
A11	LED RECESSED 3IN WIDE LINEAR WALL WASHER, 11FT LONG	RECESSED	PINNACLE ARCHITECTURAL LIGHTING	EV3WW-835-11 CR-SF-U-OL1-1-0-W	LED	66	UNV
A12	LED RECESSED 3IN WIDE LINEAR WALL WASHER, 12FT LONG	RECESSED	PINNACLE ARCHITECTURAL LIGHTING	EV3WW-835-12 CR-SF-U-OL1-1-0-W	LED	78	UNV
A13	LED RECESSED 3IN WIDE LINEAR WALL WASHER, 13 FT LONG	RECESSED	PINNACLE ARCHITECTURAL LIGHTING	EV3WW-835- 13 CR-SF-U-OL1-1-0-W	LED	78	UNV
A14	LED RECESSED 3IN WIDE LINEAR WALL WASHER, 14FT LONG	RECESSED	PINNACLE ARCHITECTURAL LIGHTING	EV3WW-835- 14 CR-SF-U-OL1-1-0-W	LED	84	UNV
A15	LED RECESSED 3IN WIDE LINEAR WALL WASHER, 15 FT LONG	RECESSED	PINNACLE ARCHITECTURAL LIGHTING	EV3WW-835- 15 CR-SF-U-OL1-1-0-W	LED	90	UNV
A16	LED RECESSED 3IN WIDE LINEAR WALL WASHER, 16FT LONG	RECESSED	PINNACLE ARCHITECTURAL LIGHTING	EV3WW-835- 16 CR-SF-U-OL1-1-0-W	LED	96	UNV
A17	LED RECESSED 3IN WIDE LINEAR WALL WASHER, 17FT LONG	RECESSED	PINNACLE ARCHITECTURAL LIGHTING	EV3WW-835- 17 CR-SF-U-OL1-1-0-W	LED	102	UNV
A20	LED RECESSED 3IN WIDE LINEAR WALL WASHER, 20FT LONG	RECESSED	PINNACLE ARCHITECTURAL LIGHTING	EV3WW-835- 20 CR-SF-U-OL1-1-0-W	LED	120	UNV
A21	LED RECESSED 3IN WIDE LINEAR WALL WASHER, 21FT LONG	RECESSED	PINNACLE ARCHITECTURAL LIGHTING	EV3WW-835- 21 CR-SF-U-OL1-1-0-W	LED	126	UNV
A26	LED RECESSED 3IN WIDE LINEAR WALL WASHER, 26FT LONG	RECESSED	PINNACLE ARCHITECTURAL LIGHTING	EV3WW-835- 26 CR-SF-U-OL1-1-0-W	LED	156	UNV
A31	LED RECESSED 3IN WIDE, LINEAR WALL WASHER, 31FT LONG	RECESSED	PINNACLE ARCHITECTURAL LIGHTING	EV3WW-835- 31 CR-SF-U-OL1-1-0-W	LED	186	UNV
B2	LED 3IN SLOTLIGHT, FLAT SATINE LENS, 2FT LONG	RECESSED	PINNACLE ARCHITECTURAL LIGHTING	EV3D-A-835-2-FLF-U-OL1-1-0-S	LED	9.2	UNV
B4	LED 3IN SLOTLIGHT, FLAT SATINE LENS, 4FT LONG	RECESSED	PINNACLE ARCHITECTURAL LIGHTING	EV3D-A-835-4-FLF-U-0L1-1-0-S	LED	18.4	UNV
B5	LED 3IN SLOTLIGHT FLAT SATINE LENS, 5FT LONG	RECESSED	PINNACLE ARCHITECTURAL LIGHTING	EV3D-A -835-5 FLF-U-0L1-1-0-S	LED	23	UNV
B6	LED 3IN SLOTLIGHT, FLAT SATINE LENS, 6FT LONG	RECESSED	PINNACLE ARCHITECTURAL LIGHTING	EV3D-A-835-6-FLF-U-0L1-1-0-S	LED	27.6	UNV
B7	LED 3IN SLOTLIGHT FLAT SATINE LENS, 7FT LONG	RECESSED	PINNACLE ARCHITECTURAL LIGHTING	EV3D-A -835- 7- FLF-U-0L1-1-0-S	LED	32.2	UNV
B8	LED 3IN SLOTLIGHT FLAT SATINE LENS, 8FT LONG	RECESSED	PINNACLE ARCHITECTURAL LIGHTING	EV3D-A-835-8 -FLF-U-OL1-1-0-S	LED	36.8	UNV
B9	LED 3IN SLOTLIGHT FLAT SATINE LENS, 9FT LONG	RECESSED	PINNACLE ARCHITECTURAL LIGHTING	EV3D-A-835-9- FL-U-0L1-1-0-S	LED	41.4	UNV
B10	LED 3IN SLOTLIGHT, FLAT SATINE LENS, 10FT LONG	RECESSED	PINNACLE ARCHITECTURAL LIGHTING	EV3D-A-835-10- FL-U-0L1-1-0-S	LED	46	UNV
B11	LED 3IN SLOTLIGHT, FLAT SATINE LENS, 11FT LONG  LED 3IN SLOT LIGHT FLAT SATINE LENS. 12FT LONG	RECESSED	PINNACLE ARCHITECTURAL LIGHTING PINNACLE ARCHITECTURAL LIGHTING	EV3D-A-835-11 FL-U-0L1-1-0-S	LED	50.6	UNV
B12 B13	LED 3IN SLOT LIGHT FLAT SATINE LENS, 12FT LONG  LED 3IN SLOTLIGHT, FLAT SATINE LENS, 13FT LONG	RECESSED RECESSED	PINNACLE ARCHITECTURAL LIGHTING PINNACLE ARCHITECTURAL LIGHTING	EV3D-A-835-12-FL-U-OL1-1-0-S EV3D-A-835-13 FL-U-0L1-1-0-S	LED	55.2 59.8	UNV
B14	LED 3IN SLOTLIGHT, FLAT SATINE LENS, 13FT LONG  LED 3IN SLOTLIGHT, FLATSATINE LENS, 14FT LONG	RECESSED	PINNACLE ARCHITECTURAL LIGHTING PINNACLE ARCHITECTURAL LIGHTING	EV3D-A-635-13 FL-U-0L1-1-0-S EV3D-A-835-14-FL-U-0L1-1-0-S	LED	64.4	UNV
B16	LED 3IN SLOTLIGHT FLAT SATINE LENS, 16FT LONG	RECESSED	PINNACLE ARCHITECTURAL LIGHTING  PINNACLE ARCHITECTURAL LIGHTING	EV3D-A-633-14-FL-0-0L1-1-0-3 EV3D-A-835-16 -FL-U-0L1-1-0-S	LED	73.6	UNV
B20	LED 3IN SLOTLIGHT, FLAT SATINE LENS, 20FT LONG	RECESSED	PINNACLE ARCHITECTURAL LIGHTING	EV3D-A-835-20- FL-U-0L1-1-0-S	LED	92	UNV
B4a	LED 3IN SLOTLIGHT 4FT LONG, ARCHED LENS	RECESSED	PINNACLE ARCHITECTURAL LIGHTING	EV3D-H-835-4-SFS-U-0L1-1-0-W	LED	18.4	UNV
B5a	LED 3IN SLOTLIGHT 5FT LONG, ARCHED LENS	RECESSED	PINNACLE ARCHITECTURAL LIGHTING	EV3D-H-835-5-SFS-U-0L1-1-0-W	LED	23	UNV
B8a	LED 3IN SLOTLIGHT 8FT LONG, ARCHED LENS	RECESSED	PINNACLE ARCHITECTURAL LIGHTING	EV3D-H-835-8-SFS-U-0L1-1-0-BL	LED	36.8	UNV
B9a	LED 3IN SLOTLIGHT 9 FT LONG, ARCHED LENS	RECESSED	PINNACLE ARCHITECTURAL LIGHTING	EV3D-H-835- 9 CR-SF-U-0L1-1-0-W	LED	41.4	UNV
B11a	LED 3IN SLOTLIGHT 11FT LONG, ARCHED LENS	RECESSED	PINNACLE ARCHITECTURAL LIGHTING	EV3D-H-835-11 CR-SF-U-0L1-1-0-W	LED	50.6	UNV
B12a B14a	LED 3IN SLOTLIGHT 12FT LONG, ARCHED LENS  LED 3IN SLOTLIGHT 14 FT LONG, ARCHED LENS	RECESSED RECESSED	PINNACLE ARCHITECTURAL LIGHTING PINNACLE ARCHITECTURAL LIGHTING	EV3D-H -835-12 CR-SF-U-0L1-1-0-BL EV3D-H-835-13 CR-SF-U-0L1-1-0-BL	LED	55.2 64.4	UNV
DIIG		NEGEGEE	THINK COLD AN COLD TO THE ELECTRICAL	2705 17000 10 OK OF 0 021 1 0 BE		01.1	
BR 4 X 6	LED 3IN SLOTLIGHT, FLAT SATINE LENS, 5 X 6 FT RECTANGULAR CONFIGURATION, OUTPUT REDUCED 25%	RECESSED	PINNACLE ARCHITECTURAL LIGHTING	EV3D-A-835- R 4X6-FL-U-OL1-1-0-S-MOD RED 25	LED	100.2	UNV
BR 5 X 9	LED 3IN SLOTLIGHT, FLAT SATINE LENS, 5 X 9 FT RECTANGULAR CONFIGURATION, OUTPUT REDUCED 25%	RECESSED	PINNACLE ARCHITECTURAL LIGHTING	EV3D-A-835- R 5X9-FL-U-OL1-1-0-S-MOD RED 25	LED	135	UNV
C 4	LED 3IN SLOTLIGHT 4FT OVERALL, MODIFIED WITH 2FT LUMINOUS AND 2FT BLANK PLATE	RECESSED	PINNACLE ARCHITECTURAL LIGHTING	EV3D-A-835-4-FLF-U-OL1-1-0-S MOD	LED	9.2	UNV
C6A	LED 3IN SLOTLIGHT 6FT OVERALL, MODIFIED WITH 4FT LUMINOUS AND 2FT BLANK PLATE	RECESSED	PINNACLE ARCHITECTURAL LIGHTING	EV3D-A-835-6-FLF-U-OL1-1-0-S-MOD	LED	18.4	UNV
C6B	LED 3IN SLOTLIGHT 6FT OVERALL, MODIFIED WITH 2FT LUMINOUS AND 4FT BLANK PLATE	RECESSED	PINNACLE ARCHITECTURAL LIGHTING	EV3D-A-835-6-FLF-U-OL1-1-0-S-MOD	LED	9.2	UNV
C6C	LED 3IN SLOTLIGHT 6FT OVERALL, MODIFIED WITH 2FT LUMINOUS CENTER AND 2FT BLANK END PLATES	RECESSED	PINNACLE ARCHITECTURAL LIGHTING	EV3D-A-835-6-FLF-U-OL1-1-0-S MOD	LED	9.2	UNV
C8A	LED 3IN SLOTLIGHT 8FT OVERALL, MODIFIED WITH 4FT LUMINOUS AND 2FT BLANK END PLATES	RECESSED	PINNACLE ARCHITECTURAL LIGHTING	EV3D-A-835-8-FLF-U-OL1-1-0-S-MOD	LED	18.4	UNV
C8B	LED 3IN SLOTLIGHT 8FT OVERALL, MODIFIED WITH 2FT LUMINOUS AND 2FT AND 4FT BLANK END PLATES	RECESSED	PINNACLE ARCHITECTURAL LIGHTING	EV3D-A-835-8-FLF-U-OL1-1-0-S-MOD	LED	9.2	UNV
C10	LED 3IN SLOTLIGHT 10FT OVERALL, MODIFIED WITH 4FT LUMINOUS AND BLANK 2FT AND 4FT END PLATES	RECESSED	PINNACLE ARCHITECTURAL LIGHTING	EV3D-A-835-10-FLF-U-OL1-1-0-S MOD	LED	18.4	UNV
D	LED 3IN SQ RECESSED DOWNLIGHT, 60 DEG BEAM	RECESSED	LEDRA BRANDS	NU3-QD-XTM19-13LM-35K-83-HE60-277-DIM 10-NC-MC	LED	16.5	277
F	LED 3IN DIA RECESSED DOWNLIGHT 50 DEG BEAM	RECESSED	LEDRA BRANDS	NU3-RD-XTM19-10LM-835K-83-HE60-277-DIM 10-NC-WH-WH	LED	12.4	277
G	LED 3IN SQ RECESSED WALLWASHER	RECESSED	LEDRA BRANDS	NU3-QW-XTM19-13LM-835K-83-WW-277-DIM 10-NC-MC	LED	16.5	277
J	LED 3FT LOOP PENDANT, LOW OUTPUT	PENDANT	CORONET	LOOP LED-3FT-LTG2-3500K-UNV-AC-DB-CC (BLACK)-AC	LED	27	UNV
K1	LED COVE LIGHT, 1FT SEGMENT 35K	SURFACE	ECOSENSE	L35-I-12-04-CL-80-MULT-120	LED	А	UNV
K2	LED COVE LIGHT, 1FT SEGMENT 35K  LED COVE LIGHT, 4FT SEGMENT 35K	SURFACE	ECOSENSE	L35-I-12-04-CL-80-MULT-120	LED	16	UNV
114	LES COVE LIGHT, IT I SECRETIFY CON	JOIN AGE	LOGOLINGE	E00 1 40-04-0L-00-WIOL 1-12 I		10	2147
L	LED SURFACE-MT 18 IN DIA DRUM, 7% UPLIGHT, REGRESSED SATINE LENS	SURFACE	PINNACLE ARCHITECTURAL LIGHTING	F18U-AR-835 - S-U -OL1-1-0-BL	LED	19.7	UNV
L1	LED SURFACE-MT 24 IN DIA DRUM, 7% UPLIGHT, REGRESSED SATINE LENS, OUTPUT REDUCED 25%	SURFACE	PINNACLE ARCHITECTURAL LIGHTING	F24U-AR-835 - S-U -OL1-1-0-BL	LED	39.4	UNV
L2	LED RECESSED 24 IN DIA DRUM, REGRESSED SATINE LENS	RECESSED	PINNACLE ARCHITECTURAL LIGHTING	F24-AR-835-FL-U-OL1-1-0-W	LED	39.4	UNV
L3	LED RECESSED 24 IN DIA DRUM, REGRESSED SATINE LENS, OUTPUT REDUCED 25%	RECESSED	PINNACLE ARCHITECTURAL LIGHTING	F24-AR-835-FL-U-OL1-1-0-W	LED	39.4	UNV

- LUMINAIRE SCHEDULE INDICATES BASIS OF DESIGN FIXTURES AND MANUFACTURERS. FOR PRICING CONTACT DEIRDRE MCCLINTOCK AT DIVERSIFIED LIGHTING: (215) 442-0700, DMCCLINTOCK@DLATG.COM.
- 2. SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION. 3. SEE ARCHITECTURAL DRAWINGS FOR LAYOUT AND CUSTOM FIXTURE CONFIGURATIONS.
- 4. CONTRACTOR TO VERIFY LENGTH IN THE FIELD AND CEILING CONDITIONS.
- 5. COORDINATE FINISHES SELECTIONS WITH ARCHITECT.
- 6. NOT ALL LIGHT FIXTURES MAY BE INCLUDED IN PROJECT. REFER TO PLANS FOR FIXTURE TYPES AND QUANTITIES.

**MEP ENGINEERS:** 



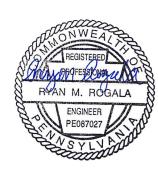
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Contact: Kevin Sultanik e-mail: ksultanik@aroraengineers.com

STRUCTURAL ENGINEERS: CSA GROUP 1341 NORTH DELAWARE AVENUE, SUITE 507 PHILADELPHIA, PA 19125

Ph: 215.427.8700 Fax: 215.427.8752

Contact: Wing Au e-mail: wau@csagroup.com



**REVISIONS:** No. Description Date

LUMINAIRE SCHEDULE

CW1615 November 25, 2019 RR,AS Drawn by

Checked by E702

					PA	NEL	SCH	HEDL	JLE					
	RP-1B3 - EXISTING PANEL: CONDITIONS											М	OUNTING: SURFACE	
	VOLTAGE: 208Y/120V	PHASE:		3			WIRE:	4	BUS A	MPS:	125/	4	MAIN:	
	NEMA 1	NEUTRAL:	10	0%	COP	PER GRO	OUND BUS	S - ISOLA	TED GRO	DUND	)	L	OCATION: ELEC ROOM FOR 'F'	
CIRCUIT	DESCRIPTION	WIRE	POLES	BKR SIZE	VA	A	'A / PHAS B	E C	VA	BKR SIZE	POLES	WIRE	DESCRIPTION	CIRCUIT
1					0	0			0	20	_	/E)	MICROMANE	2
3	WATER HEATER	(E)	3	30	0		0		0	- 20	2	(E)	MICROWAVE	4
5					0			0	0	20	1	(E)	EXISTING LOAD	6
7	EXISTING LOAD	(E)	1	20	0	0			0	-	-	-	SPACE	8
9	EXISTING LOAD	(E)	1	20	0		0		0	-	-	-	SPACE	10
11	FIRE PROT. COMP.	(E)	2	20	0			0	0	-	-	-	SPACE	12
13	TINE THOT. COMIT.	(=)		20	0	0			0	20	1	(E)	EXISTING LOAD	14
15	RECPT. OFF. PART.	(E)	1	20	0		0		0	20	1	(E)	EXISTING LOAD	16
17	RECPT. OFF. PART.	(E)	1	20	0			0	0	20	1	(E)	EXISTING LOAD	18
19	RECPT. OFF. PART.	(E)	1	20	0	0			0	20	1	(E)	EXISTING LOAD	20
21	EXISTING LOAD	(E)	1	20	0		0		0	20	1	(E)	RECPT. ADMIN.	22
23	RECPT. ADMIN.	(E)	1	20	0			0	0	20	1	(E)	RECPT. ADMIN.	24
25	RECPT. ADMIN.	(E)	1	20	0	0			0	20	1	(E)	RECPT. ADMIN.	26
27	RECPT. ADMIN.	(E)	1	20	0		0		0	20	1	(E)	RECPT. OFF. PART.	28
29	IDF I RECEPT TELE 2M	(E)	1	20	0			0	0	20	1	(E)	RECPT. OFF. PART.	30
31	EXISTING LOAD	(E)	1	20	0	0			0	20	1	(E)	RECPT. OFF. PART.	32
33	RECPT. COPY RM.	(E)	1	20	0		0		0	20	1	(E)	EXISTING LOAD	34
35	RECPT. COPY RM.	(E)	1	20	0			0	0	20	1	(E)	EXISTING LOAD	36
37	RECPT. COPY RM.	(E)	1	20	0	0			0	-	-	-	SPACE	38
39	EXISTING LOAD	(E)	1	20	0		0		0	-	-	-	SPACE	40
41	EXISTING LOAD	(E)	1	20	0			0	0	-	-	-	SPACE	42
	NOTES:	·	•				TOTALS			•			•	
						0	0	0						
							0 VA						0.00 AMPS	

					P/	NEL	. SCH	HEDU	JLE					
	RP-1B4 - EXISTING PANEL: CONDITIONS											N	IOUNTING: SURFACE	
	VOLTAGE: 208Y/120V	PHASE:	;	3			WIRE:	4	BUS A	MPS:	225	A	MAIN:	
	NEMA 1	NEUTRAL:	10	0%	COP	PER GRO	OUND BU	S - ISOLA	TED GR	DUNE	)	L	OCATION: ELEC ROOM FOR 'E&F'	
CIRCUIT	DESCRIPTION	WIRE	POLES	BKR SIZE	VA	A \	/A / PHAS	E C	VA	BKR SIZE	POLES	WIRE	DESCRIPTION	CIRCUIT
1		<b>(F)</b>			0	0			0	-	-	-	SPACE	2
3	CISCO SWITCH COL F4.F15	(E)	2	20	0		0		0	-	-	-	SPACE	4
5	CISCO SWITCH COL F2.F13	(E)	2	20	0			0	0	-	-	-	SPACE	6
7	CIGCO SWITCH COLT 2.1 13	(L)		20	0	0			0	-	-	-	SPACE	8
9	CISCO SWITCH COL F25.F27	(E)	2	20	0		0		0	-	-	-	SPACE	10
11	CDACE				0	0		0	0	-	-	-	SPACE	12
13	SPACE SPACE	-	-	-	0	0	0		0	-	-	-	SPACE SPACE	14
	FLOOR RECPT. CONCOURSE	(E)	1	20	0		0	0	0	+-	_		SPACE	18
	FLOOR RECPT. CONCOURSE	(E)	1	20	0	0		Ů	0	20	1	(E)	PIT LT. RECPT. ESCAL	20
21		(E)	1	20	0	0	0		0	20	1	(E)	EXISTING LOAD	22
	EXISTING LOAD	(E)	1	20	0		U	0	0	20	1	(E)	EXISTING LOAD	24
	PIT LT. RECPT. ESCAL.	(E)	1	20	0	0		U	0	20	1	(E)	EXISTING LOAD	26
				-		0	0			+	-	` ,	+	_
27	EXISTING LOAD	(E)	1	20	0		0		0	20	1	(E)	EXISTING LOAD	28
29	FLOOR REC. UNDER ESCALATOR	(E)	1	20	0			0	0	20	1	(E)	EXISTING LOAD	30
31	EXISTING LOAD	(E)	1	20	0	0			0	20	1	(E)	DAS # IDF-H	32
33	EXISTING LOAD	(E)	1	20	0		0		0	20	1	(E)	DAS # IDF-H	34
35	EXISTING LOAD	(E)	1	20	0			0	0	20	1	(E)	-	36
37	EXISTING LOAD	(E)	1	20	0	0			0					38
39	SPACE	-	-	-	0		0		0	60	3	(E)	-	40
41	SPACE	-	-	-	0			0	0					42
	NOTES:	_					TOTALS							
						0	0	0						
							0 VA						0.00 AMPS	

					PA	NEL	SCH	HEDL	JLE					
	RP-1B3 - PROPOSED PANEL: CONDITIONS											М	OUNTING: SURFACE	
	VOLTAGE: 208Y/120V	PHASE:	;	3			WIRE:	4	BUS AI	MPS:	125/	4	MAIN:	
	NEMA 1	NEUTRAL:	10	0%	COP	PER GRO	OUND BUS	S - ISOLA	TED GRO	DUNE	)	L	OCATION: ELEC ROOM FOR 'I'	
CIRCUIT	DESCRIPTION	WIRE	POLES	BKR SIZE	VA	A V	'A / PHAS B	E C	VA	BKR SIZE	POLES	WIRE	DESCRIPTION	CIRCUIT
1					0	0			0	20	2	(E)	MICROWAVE	2
3	WATER HEATER	(E)	3	30	0		0		0	20		(L)	MICROWAVE	4
5					0			0	0	20	1	(E)	EXISTING LOAD	6
7	EXISTING LOAD	(E)	1	20	0	700			700	20	1	12	I - MEN'S TOWEL DISPENSER & RECEPT & SOAP POWER	8
9	EXISTING LOAD	(E)	1	20	0		1500		1500	20	1	12	I - MEN'S HAND DRYER	10
11	FIRE PROT. COMP.	(E)	2	20	0			1500	1500	20	1	12	I - MEN'S HAND DRYER	12
13	FIRE FROT. GOIVIF.	(L)		20	0	0			0	20	1	(E)	EXISTING LOAD	14
15	RECPT. OFF. PART.	(E)	1	20	0		0		0	20	1	(E)	EXISTING LOAD	16
17	RECPT. OFF. PART.	(E)	1	20	0			0	0	20	1	(E)	EXISTING LOAD	18
19	RECPT. OFF. PART.	(E)	1	20	0	0			0	20	1	(E)	EXISTING LOAD	20
21	EXISTING LOAD	(E)	1	20	0		0		0	20	1	(E)	RECPT. ADMIN.	22
23	RECPT. ADMIN.	(E)	1	20	0			0	0	20	1	(E)	RECPT. ADMIN.	24
25	RECPT. ADMIN.	(E)	1	20	0	0			0	20	1	(E)	RECPT. ADMIN.	26
27	RECPT. ADMIN.	(E)	1	20	0		0		0	20	1	(E)	RECPT. OFF. PART.	28
29	IDF I RECEPT TELE 2M	(E)	1	20	0			0	0	20	1	(E)	RECPT. OFF. PART.	30
31	EXISTING LOAD	(E)	1	20	0	0			0	20	1	(E)	RECPT. OFF. PART.	32
33	RECPT. COPY RM.	(E)	1	20	0		0		0	20	1	(E)	EXISTING LOAD	34
35	RECPT. COPY RM.	(E)	1	20	0			0	0	20	1	(E)	EXISTING LOAD	36
37	RECPT. COPY RM.	(E)	1	20	0	700			700	20	1	12	I - WOMEN'S TOWEL DISPENSER & RECEPT & SOAP POWER	38
39	EXISTING LOAD	(E)	1	20	0		1500		1500	20	1	12	I - WOMEN'S HAND DRYER	40
41	EXISTING LOAD	(E)	1	20	0			1500	1500	20	1	12	I - WOMEN'S HAND DRYER	42
	NOTES:	•		'			TOTALS						•	
	EC SHALL INSTALL A EQUIPMENT GRO	UNDING CON	DUC:	TOR V	VITH	1400	3000	3000						
	EACH CIRCUIT IN ACCORDANCE WITH			. 01. 1			7400 VA						20.54 AMPS	

					P	ANEI	_ SCI	HEDI	JLE					
	RP-1B4 - PROPOSED PANEL: CONDITIONS											M	IOUNTING: SURFACE	
	VOLTAGE: 208Y/120V	PHASE:	;	3			WIRE:	4	BUS	AMPS:	225A	\	MAIN: MLO	
	NEMA 1	NEUTRAL:	10	0%		С	OPPER G	ROUND I	BUS			L	OCATION: ELEC ROOM FOR 'E&F'	
CIRCUIT	DESCRIPTION	WIRE	POLES	BKR SIZE	VA	A	/A / PHAS	E C	VA	BKR SIZE	POLES	WIRE	DESCRIPTION	CIRCUIT
1		<b>(E)</b>		<b>-</b> -	0	100			100	20	1	(E)	E- WOMEN'S TOWEL DISPENSER	2
3	CISCO SWITCH COL F4.F15	(E)	2	20	0		1500		1500	20	1	(E)	E- WOMEN'S HAND DRYER	4
5	CICCO CIMITOLI COL ES E43	<b>/</b> E\			0			1500	1500	20	1	(E)	E- WOMEN'S HAND DRYER	6
7	CISCO SWITCH COL F2.F13	(E)	2	20	0	1500			1500	20	1	(E)	E- WOMEN'S HAND DRYER	8
9	CISCO SWITCH COL F25.F27	(E)	2	20	0		100		100	20	1	(E)	E- MEN'S TOWEL DISPENSER	10
11	CISCO SWITCH COL F25.F27	(L)		20	0			1500	1500	20	1	(E)	E- MEN'S HAND DRYER	12
13	F - WOMEN'S TOWEL DISPENSER & SOAP POWER	12	1	20	800	2300			1500	20	1	(E)	E- MEN'S HAND DRYER	14
15	F - WOMEN'S HAND DRYER	12	1	20	1500		2100		600	20	1	(E)	E- ELECTRIC WATER COOLER	16
17	FLOOR RECPT. CONCOURSE	(E)	1	20	0			0	0	-	-	-	SPACE	18
19	FLOOR RECPT. CONCOURSE	(E)	1	20	0	0			0	20	1	(E)	PIT LT. RECPT. ESCAL	20
21	EXISTING LOAD	(E)	1	20	0		0		0	20	1	(E)	EXISTING LOAD	22
23	EXISTING LOAD	(E)	1	20	0			0	0	20	1	(E)	EXISTING LOAD	24
25	PIT LT. RECPT. ESCAL.	(E)	1	20	0	0			0	20	1	(E)	EXISTING LOAD	26
27	EXISTING LOAD	(E)	1	20	0		0		0	20	1	(E)	EXISTING LOAD	28
29	FLOOR REC. UNDER ESCALATOR	(E)	1	20	0			0	0	20	1	(E)	EXISTING LOAD	30
31	EXISTING LOAD	(E)	1	20	0	0			0	20	1	(E)	DAS # IDF-H	32
33	EXISTING LOAD	(E)	1	20	0		0		0	20	1	(E)	DAS # IDF-H	34
35	EXISTING LOAD	(E)	1	20	0			0	0	20	1	(E)	EXISTING LOAD	36
37	EXISTING LOAD	(E)	1	20	0	0			0					38
39	F - WOMEN'S HAND DRYER	12	1	20	1500		1500		0	60	3	(E)	EXISTING LOAD	40
41	F - WOMEN'S HAND DRYER	12	1	20	1500			1500	0					42
	NOTES:						TOTALS							
	EC SHALL INSTALL A EQUIPMENT GRO EACH CIRCUIT IN ACCORDANCE WITH		DUC.	TOR V	WITH	3900	5200 13600 VA	4500					37.75 AMPS	

**MEP ENGINEERS:** 



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STRUCTURAL ENGINEERS: CSA GROUP 1341 NORTH DELAWARE AVENUE, SUITE 507 PHILADELPHIA, PA 19125

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Contact: Wing Au e-mail: wau@csagroup.com



**REVISIONS:** No. Description Date

ELECTRICAL PANEL SCHEDULES -SHEET 1

CW1615 November 25, 2019 RR,AS

Checked by E801

					PA	NEL	SCH	HEDU	JLE					
	RP-1B7 - EXISTING PANEL: CONDITIONS											М	OUNTING: SURFACE	
	VOLTAGE: 208Y/120V	PHASE:	,	3			WIRE:	4	BUS A	MPS:	125/	4	MAIN:	
	NEMA 1	NEUTRAL:	10	0%	COP	PER GRO	UND BUS	S - ISOLA	TED GRO	DUNE	)	L	OCATION: ELEC ROOM FOR 'F'	
CIRCUIT	DESCRIPTION	WIRE	POLES	BKR SIZE	VA	A	'A / PHAS	E C	VA	BKR SIZE	POLES	WIRE	DESCRIPTION	CIRCUIT
-		(5)	_	$\vdash$	_		В	C	_			<b>(E)</b>		$\rightarrow$
1	RECPT. CONCOURSE	(E)	1	20	0	0			0	20	1	(E)	RECPT. BOH	2
3	REC. BEHIND GUARD DESK	(E)	1	20	0		0		0	20	1	(E)	37 E TV REC.	4
5	TELEPHONE	(E)	1	20	0			0	0	20	1	(E)	CINGULAR REPEATER REC. TEL RM.	6
7	TELEPHONE	(E)	1	20	0	0			0	20	1	(E)	RECPT. BOX OFF	8
9	ELEV. LT. CTL.	(E)	1	20	0		0		0	20	1	(E)	EXISTING LOAD	10
11	EXISTING LOAD	(E)	1	20	0			0	0	20	1	(E)	RECPT. BOX OFF	12
13	ELEV. CTL. CIRC.	(E)	1	20	0	0			0	20	1	(E)	RECPT. BOX OFF	14
15	RECPT. ELCAL.	(E)	1	20	0		0		0	20	1	(E)	RECPT. HALL "D"	16
17	RECPT. ELCAL.	(E)	1	20	0			0	0	20	1	(E)	ELEV. PIT LTS.	18
19	EXISTING LOAD	(E)	1	20	0	0			0	-	-	-	SPACE	20
21	ELEV. PIT LTS.	(E)	1	20	0		0		0	20	1	(E)	CUH'S WEST STWY.	22
23	CUH WEST ENT.	(E)	1	20	0			0	0	-	-	-	SPACE	24
25	EXISTING LOAD	(E)	1	20	0	0			0	-	-	-	SPACE	26
27	EXISTING LOAD	(E)	1	20	0		0		0	20	1	(E)	RECPT. CLO & HALL "D"	28
29					0			0	0	20	1	(E)	EXISTING LOAD	30
31	HOT WATER HEATER	(E)	3	30	0	0			0	20	1	(E)	EXISTING LOAD	32
33					0		0		0	20	1	(E)	EXISTING LOAD	34
	NOTES:	•	•				TOTALS			•			•	
						0	0	0						
							0 VA						0.00 AMPS	

					PA	NEL	SCH	HEDU	JLE					
	RP3C-2-S-2 EXISTING PANEL: CONDITIONS											N	OUNTING: SURFACE	
	VOLTAGE: 208Y/120V	PHASE:		3			WIRE:	4	BUS A	MPS:	100	4	MAIN:	
	NEMA 1	NEUTRAL:	10	0%	COP	PER GRO	OUND BUS	S - ISOLA	TED GR	DUNE	)	L	OCATION: ELEC ROOM FOR 'T'	
CIRCUIT	DESCRIPTION	WIRE	POLES	BKR SIZE	VA	Α \	/A / PHAS	E C	VA	BKR SIZE	POLES	WIRE	DESCRIPTION	CIRCUIT
	REC. REGISTER & STORAGE RM.	(E)	1	20	0	0			0	20	1	(E)	REC. NORTH CORR	2
			<u> </u>		_	Ů				-	<u> </u>			_
3	REC. SECURITY & TOILET RM.	(E)	1	20	0		0		0	20	1	(E)	LTS TOILET ROOM VIA LR2	4
5	REC. CONCOURSE (W)	(E)	1	20	0			0	0	20	1	(E)	LTS MEETING RM POWER VIA LR2	6
7	SOFFIT RM. LTS. CONCOURSE VIA LR1	(E)	1	20	0	0			0	20	1	(E)	LTS. MEETING RM POWER VIA LR2	8
9	SOFFIT RM. LTS. CONCOURSE VIA LR2	(E)	1	20	0		0		0	20	1	(E)	TRAP TIMER	10
11	ARTISTIC LTG VIA LR2	(E)	1	20	0			0	0	20	1	(E)	RECP IDC EE TELE	12
13	REC. BOH CORR	(E)	1	20	0	0			0	20	1	(E)	RECP IDC JJ TELE	14
15	REC. BOH CORR	(E)	1	20	0		0		0	20	1	(E)	EXISTING LOAD	16
17	REC. BOH CORR	(E)	1	20	0			0	0	20	1	(E)	EXISTING LOAD	18
19	REC. BOH CORR	(E)	1	20	0	0			0	20	1	(E)	EXISTING LOAD	20
21	EXISTING LOAD	(E)	1	20	0		0		0	20	1	(E)	EXISTING LOAD	22
23	BELL CELL H.	(E)	1	20	0			0	0	20	1	(E)	EXISTING LOAD	24
25	BAS XFRMR	(E)	1	20	0	0			0	20	1	(E)	EXISTING LOAD	26
27	SPACE	-	١.	-	0		0		0	20	1	(E)	EXISTING LOAD	28
29	SPACE	-	<b> </b>	-	0			0	0	20	1	(E)	EXISTING LOAD	30
	SPACE	-	-	-	0	0			0	20	1	(E)	EXISTING LOAD	32
	SPACE	-	<del> </del>	-	0		0		0	<del> </del>	-	-	SPACE	34
35	SPACE	-	-	-	0			0	0	<b>†</b> -	-	-	SPACE	36
37	SPACE	-	-	-	0	0			0	-	-	-	SPACE	38
39	SPACE	-	-	-	0		0		0	-	-	-	SPACE	40
41	SPACE	-	-	-	0			0	0	-	-	-	SPACE	42
	NOTES:						TOTALS							
						0	0	0	]					
							0 VA						0.00 AMPS	

					PA	NEL	SCH	HEDU	JLE					
	RP-1B7 - PROPOSED PANEL: CONDITIONS											М	OUNTING: SURFACE	
	VOLTAGE: 208Y/120V	PHASE:		3			WIRE:	4	BUS A	MPS:	125/	<b>\</b>	MAIN:	
	NEMA 1	NEUTRAL:	10	0%	COP	PER GRO	UND BUS	S - ISOLA	TED GRO	DUNE	)	L	OCATION: ELEC ROOM FOR 'F'	
CIRCUIT	DESCRIPTION	WIRE	POLES	BKR SIZE	VA	V	A / PHAS	E	VA	BKR SIZE	POLES	WIRE	DESCRIPTION	1
CIR	BEGGIAN HOIL		PO	BKR	*, `	Α	В	С	,,,	BKR	PO	*****	BESSILI FISH	2
1	RECPT. CONCOURSE	(E)	1	20	0	0			0	20	1	(E)	RECPT. BOH	2
3	REC. BEHIND GUARD DESK	(E)	1	20	0		0		0	20	1	(E)	37 E TV REC.	4
5	TELEPHONE	(E)	1	20	0			0	0	20	1	(E)	CINGULAR REPEATER REC. TEL RM.	6
7	TELEPHONE	(E)	1	20	0	0			0	20	1	(E)	RECPT. BOX OFF	8
9	ELEV. LT. CTL.	(E)	1	20	0		0		0	20	1	(E)	EXISTING LOAD	1
11	EXISTING LOAD	(E)	1	20	0			0	0	20	1	(E)	RECPT. BOX OFF	1:
13	ELEV. CTL. CIRC.	(E)	1	20	0	0			0	20	1	(E)	RECPT. BOX OFF	1.
15	RECPT. ELCAL.	(E)	1	20	0		0		0	20	1	(E)	RECPT. HALL "D"	1
17	RECPT. ELCAL.	(E)	1	20	0			0	0	20	1	(E)	ELEV. PIT LTS.	1
19	EXISTING LOAD	(E)	1	20	0	700			700	20	1	12	F - MEN'S TOWEL DISPENSER & SOAP POWER	20
21	ELEV. PIT LTS.	(E)	1	20	0		0		0	20	1	(E)	CUH'S WEST STWY.	2
23	CUH WEST ENT.	(E)	1	20	0			1500	1500	20	1	10	F - MEN'S HAND DRYER	2
25	EXISTING LOAD	(E)	1	20	0	1500			1500	20	1	10	F - MEN'S HAND DRYER	2
27	EXISTING LOAD	(E)	1	20	0		0		0	20	1	(E)	RECPT. CLO & HALL "D"	2
29					0			0	0	20	1	(E)	EXISTING LOAD	3
31	HOT WATER HEATER	(E)	3	30	0	0			0	20	1	(E)	EXISTING LOAD	3
33	]				0		0		0	20	1	(E)	EXISTING LOAD	34
	NOTES:	•					TOTALS						•	
	EC SHALL INSTALL A EQUIPMENT GF EACH CIRCUIT IN ACCORDANCE WIT		IDUC	TOR V	VITH	2200	0 3700 VA	1500					10.27 AMPS	

					PA	NEL	SCH	EDU	LE					
	RP3C-2-S-2 PROPOSED PANEL: CONDITIONS											M	IOUNTING: SURFACE	
	VOLTAGE: 208Y/120V	PHASE:		3			WIRE:	4	BUS A	MPS:	100A	\	MAIN:	
	NEMA 1	NEUTRAL:	10	00%	COP	PER GRO	UND BUS	S - ISOLA	TED GRO	DUND	)	L	OCATION: ELEC ROOM FOR 'T'	
CIRCUIT	DESCRIPTION	WIRE	POLES	BKR SIZE	VA	V A	'A / PHAS B	E C	· VA	BKR SIZE	POLES	WIRE	DESCRIPTION	CIRCUIT
1	REC. REGISTER & STORAGE RM.	(E)	1	20	0	0			0	20	1	(E)	REC. NORTH CORR	2
3	REC. SECURITY & TOILET RM.	(E)	1	20	0		0		0	20	1	(E)	LTS TOILET ROOM VIA LR2	4
5	REC. CONCOURSE (W)	(E)	1	20	0			0	0	20	1	(E)	LTS MEETING RM POWER VIA LR2	6
7	SOFFIT RM. LTS. CONCOURSE VIA LR1	(E)	1	20	0	0			0	20	1	(E)	LTS. MEETING RM POWER VIA LR2	8
9	SOFFIT RM. LTS. CONCOURSE VIA LR2	(E)	1	20	0		0		0	20	1	(E)	TRAP TIMER	10
11	ARTISTIC LTG VIA LR2	(E)	1	20	0			0	0	20	1	(E)	RECP IDC EE TELE	12
13	REC. BOH CORR	(E)	1	20	0	0			0	20	1	(E)	RECP IDC JJ TELE	14
15	REC. BOH CORR	(E)	1	20	0		0		0	20	1	(E)	EXISTING LOAD	16
17	REC. BOH CORR	(E)	1	20	0			0	0	20	1	(E)	EXISTING LOAD	18
19	REC. BOH CORR	(E)	1	20	0	0			0	20	1	(E)	EXISTING LOAD	20
21	EXISTING LOAD	(E)	1	20	0		0		0	20	1	(E)	EXISTING LOAD	22
23	BELL CELL H.	(E)	1	20	0			0	0	20	1	(E)	EXISTING LOAD	24
25	BAS XFRMR	(E)	1	20	0	0			0	20	1	(E)	EXISTING LOAD	26
27	T - WOMEN'S TOWEL DISPENSER	12	1	20	300		300		0	20	1	(E)	EXISTING LOAD	28
29	T - WOMEN'S HAND DRYER	12	1	20	1500			1500	0	20	1	(E)	EXISTING LOAD	30
31	T - WOMEN'S HAND DRYER	12	1	20	1500	1500			_0_	20	_1	(E)	EXISTING LOAD	32
33	SPACE	-	-	_	0		500		500	20	1	12	T- MEN'S SINK SOAP POWER	34
	T - MEN'S TOWEL DISPENSER	12	1	20	300			800 (	500	20	1	12	T- WOMEN'S SINK SOAP POWER	36
37	T - MEN'S HAND DRYER	12	1	20	1500	1500			$\sim$	<u>\</u>	_		SPACE	38
39	T - MEN'S HAND DRYER	12	1	20	1500		1500		0	-	-	-	SPACE	40
41	SPACE	-	-	-	0			0	0	-	-	-	SPACE	42
	NOTES:  EC SHALL INSTALL A EQUIPMENT GRO CIRCUIT IN ACCORDANCE WITH NEC 2		DUCT	OR WIT	TH EACH	3000	2300 7600 VA	2300		<u></u>	~	~~~	21.09 AMPS	<u> </u>



## **MEP ENGINEERS:**



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RE	VISIONS:	
No.	Description	Date
1	ELEC UPDATE	11/08/19

ELECTRICAL PANEL SCHEDULES -SHEET 2

CW1615 November 25, 2019 RR,AS Checked by

E802

					PA	NEL	SCH	HEDL	JLE					
	RP3C-3 - EXISTING PANEL: CONDITIONS											M	OUNTING: SURFACE	
	VOLTAGE: 208Y/120V	PHASE:	;	3			WIRE:	4	BUS A	MPS:	225/	4	MAIN: 200A MCB	
	NEMA 1	NEUTRAL:	10	0%	COP	PER GRO	UND BU	S - ISOLA	TED GRO	DUNE	)	L	OCATION: ELEC SUBSTATION NEAR 201B	2
CIRCUIT	DESCRIPTION	WIRE	POLES	BKR SIZE	VA	A	A / PHAS	E C	VA	BKR SIZE	POLES	WIRE	DESCRIPTION	CIRCUIT
1	REC. MEETING RM.	(E)	1	30	0	0			0	30	1	(E)	REC. MEETING RM.	2
3	REC. MEETING RM.	(E)	1	20	0		0		0	20	1	(E)	REC. MEETING RM.	4
5	REC. MEETING RM.	(E)	1	20	0			0	0	20	1	(E)	REC. MEETING RM.	6
7	LTS MEETING RM WALL WASHER	(E)	1	20	0	0			0	20	1	(E)	LTS MEETING RM WALL WASHER	8
9	LTS MEETING RM WALL WASHER	(E)	1	20	0		0		0	20	1	(E)	LTS MEETING RM WALL WASHER	10
11	RECEPT - SUB	(E)	1	20	0			0	0	20	1	(E)	EXISTING LOAD	12
13	EXISTING LOAD	(E)	1	20	0	0			0	20	1	(E)	EXISTING LOAD	14
15	EXISTING LOAD	(E)	1	20	0		0		0	20	1	(E)	EXISTING LOAD	16
17	EXISTING LOAD	(E)	1	20	0			0	0	20	1	(E)	EXISTING LOAD	18
19	EXISTING LOAD	(E)	1	20	0	0			0	20	1	(E)	EXISTING LOAD	20
21					0		0		0	-	-	-	SPACE	22
23	EXISTING LOAD	(E)	3	30	0			0	0	-	-	-	SPACE	24
25					0	0			0	-	-	-	SPACE	26
	SPACE	-	-	-	0		0		0	-	-	-	SPACE	28
29	SPACE	-	_	-	0			0	0	-	-	-	SPACE	30
	NOTES:						TOTALS	I 6	ļ					
						0	0 0 VA	0					0.00 AMPS	

						PA	NEL	SCH	EDUI	_E					
	PANEL:	RP-3C-5 - EXISTING CONDITIONS												MOUNTING: SURFACE	
	VOLTAGE:	208Y/120V	PHASE:		3			WIRE:	4	BUS AN	MPS:	225/	Α	MAIN: 225A MCB	
	NEMA	1	NEUTRAL:	10	00%	COF	PER GRO	OUND BUS	- ISOLAT	ED GRO	UND			LOCATION: ELEC ROOM FOR 'V'	
CIRCUIT	DE	SCRIPTION	WIRE	POLES	BKR SIZE	VA	A	/A / PHAS	E C	VA	BKR SIZE	POLES	WIRE	DESCRIPTION	CIRCUIT
1	REC BOH COF	RR.	(E)	1	20	0	0			0	20	1	(E)	REC BOH CORR.	2
3	REC BOH COR	RR.	(E)	1	20	0		0		0	20	1	(E)	REC BOH CORR.	4
5	REC BOH COR	RR.	(E)	1	20	0			0	0	20	1	(E)	REC BOH CORR.	6
7	REC MECH RI	M.	(E)	1	20	0	0			0	20	1	(E)	REC TEL ER STOR PUMP RM	8
9	EXISTING LOA	AD.	(E)	1	20	0		0		0	20	1	(E)	RECEP CORR	10
11	MEETING RM	FOYER	(E)	1	20	0			0	0	20	1	(E)	RECEP REG OFFICE	12
13	MEETING RM	FOYER	(E)	1	20	0	0			0	20	1	(E)	SPARE	14
15	MEETING RM	FOYER	(E)	1	20	0		0		0	20	1	(E)	SPARE	16
17	SOFFIT DM LT	TS CONCOURSE	(E)	1	20	0			0	0	20	1	(E)	SPARE	18
19	SOFFIT DM LT	TS CONCOURSE	(E)	1	20	0	0			0	20	1	(E)	SPARE	20
21	REC @ ESCAI	LATOR	(E)	1	20	0		0		0	20	1	(E)	SPARE	22
23	REC IDC H-H		(E)	1	20	0			0	0	20	1	(E)	EWC	24
25	ATC PANEL		(E)	1	20	0	0			0	20	1	(E)	ELEVATOR PIT LITES	26
27	FCU 32 & 36		(E)	1	20	0		0		0	20	1	(E)	UH 178	28
29	SPARE		(E)	1	20	0			0	0	20	1	(E)	SPARE	30
31	SPARE		(E)	1	20	0	0			0	20	1	(E)	SPARE	32
33	SPARE		(E)	1	20	0		0		0	20	1	(E)	TRAP TIMER	34
35	SPARE		(E)	1	20	0			0	0	20	1	(E)	SPARE	36
37						0	0			0	20	1	(E)	LR-3 FEED	38
39	EXISTING LOA	AD.	(E)	3	100	0		0		0	20	1	(E)	LR-3 FEED	40
41	1					0			0	0	20	1	(E)	SPARE	42
	NOTES:			•	•			TOTALS			•			•	
							0	0	0	1					
								0 VA	ļ	1				0.00 AMPS	

					P	ANEI	_ SCI	HEDI	JLE					
	RP3C-3 - PROPOSED PANEL: CONDITIONS											M	OUNTING: SURFACE	
	VOLTAGE: 208Y/120V	PHASE:		3			WIRE:	4	BUS	AMPS:	225	A	MAIN: 200A MCB	
	NEMA 1	NEUTRAL:	10	0%	COF	PPER GR	OUND BU	JS - ISOLA	ATED GR	OUND		L	OCATION: ELEC SUBSTATION NEAR 201B FOR 'W'	
CIRCUIT	DESCRIPTION	WIRE	POLES	BKR SIZE	VA	A	'A / PHAS B	E C	VA	BKR SIZE	POLES	WIRE	DESCRIPTION	CIRCUIT
1	REC. MEETING RM.	(E)	1	30	0	0			0	30	1	(E)	REC. MEETING RM.	2
3	REC. MEETING RM.	(E)	1	20	0		0		0	20	1	(E)	REC. MEETING RM.	4
5	REC. MEETING RM.	(E)	1	20	0			0	0	20	1	(E)	REC. MEETING RM.	6
7	LTS MEETING RM WALL WASHER	(E)	1	20	0	0			0	20	1	(E)	LTS MEETING RM WALL WASHER	8
9	LTS MEETING RM WALL WASHER	(E)	1	20	0		0		0	20	1	(E)	LTS MEETING RM WALL WASHER	10
11	RECEPT - SUB	(E)	1	20	0			0	0	20	1	(E)	EXISTING LOAD	12
13	EXISTING LOAD	(E)	1	20	0	0			0	20	1	(E)	EXISTING LOAD	14
15	EXISTING LOAD	(E)	1	20	0		0		0	20	1	(E)	EXISTING LOAD	16
17	EXISTING LOAD	(E)	1	20	0			0	0	20	1	(E)	EXISTING LOAD	18
19	EXISTING LOAD	(E)	1	20	0	0			0	20	1	(E)	EXISTING LOAD	20
21	EVIOTINO LOAD	<b>(F)</b>			0		800		800	20	1	12	W - WOMEN'S TOWEL DISPENSER & SOAP POWER	22
23	EXISTING LOAD	(E)	3	30	0			1500	1500	20	1	8	W - WOMEN'S HAND DRYER	24
25					0	1500			1500	20	1	8	W - WOMEN'S HAND DRYER	26
27	W - MEN'S HAND DRYER	8	1	20	1500		1500		0	-	-	-	SPACE	28
29	W - MEN'S HAND DRYER	8	1	20	1500			2300	800	20	1	12	W - MEN'S TOWEL DISPENSER & SOAP POWER	30
	NOTES:						TOTALS							
	EC SHALL INSTALL A EQUIPMENT GRO EACH CIRCUIT IN ACCORDANCE WITH		DUC.	TOR V	VITH	1500	2300 7600 VA	3800					21.09 AMPS	

					PA	ANEL	.SCH	IEDU	LE					
	RP-3C-5 - PROPOSED PANEL: CONDITIONS												MOUNTING: SURFACE	
	VOLTAGE: 208Y/120V	PHASE:		3			WIRE:	4	BUS	AMPS:	225	Α	MAIN: 225A MCB	
	NEMA 1	NEUTRAL:	10	00%	СО	PPER GR	OUND BU	S - ISOLA	TED GRO	DUND			LOCATION: ELEC ROOM FOR 'V'	
CIRCUIT	DESCRIPTION	WIRE	POLES	BKR SIZE	VA	\	/A / PHAS	E	VA	BKR SIZE	POLES	WIRE	DESCRIPTION	CIRCUIT
뜽			2	BKF		Α	В	С		BKF	2			5
1	REC BOH CORR.	(E)	1	20	0	0			0	20	1	(E)	REC BOH CORR.	2
3	REC BOH CORR.	(E)	1	20	0		0		0	20	1	(E)	REC BOH CORR.	4
5	REC BOH CORR.	(E)	1	20	0			0	0	20	1	(E)	REC BOH CORR.	6
7	REC MECH RM.	(E)	1	20	0	0			0	20	1	(E)	REC TEL ER STOR PUMP RM	8
9	EXISTING LOAD	(E)	1	20	0		0		0	20	1	(E)	RECEP CORR	10
11	MEETING RM FOYER	(E)	1	20	0			0	0	20	1	(E)	RECEP REG OFFICE	12
13	MEETING RM FOYER	(E)	1	20	0	800			800	20	1	12	V - WOMEN'S TOWEL DISPENSER & SOAP POWER	14
15	MEETING RM FOYER	(E)	1	20	0		1500		1500	20	1	10	V - WOMEN'S HAND DRYER	16
17	SOFFIT DM LTS CONCOURSE	(E)	1	20	0			1500	1500	20	1	10	V - WOMEN'S HAND DRYER	18
19	SOFFIT DM LTS CONCOURSE	(E)	1	20	0	0			0	20	1	(E)	SPARE	20
21	REC @ ESCALATOR	(E)	1	20	0		0		0	20	1	(E)	SPARE	22
23	REC IDC H-H	(E)	1	20	0			0	0	20	1	(E)	EWC	24
25	ATC PANEL	(E)	1	20	0	0			0	20	1	(E)	ELEVATOR PIT LITES	26
27	FCU 32 & 36	(E)	1	20	0		0		0	20	1	(E)	UH 178	28
29	V - MEN'S HAND DRYER	10	1	20	1500			1500	0	20	1	(E)	SPARE	30
31	V - MEN'S HAND DRYER	10	1	20	1500	1500			0	20	1	(E)	SPARE	32
33	V - MEN'S TOWEL DISPENSER & SOAP POWER	12	1	20	800		800		0	20	1	(E)	TRAP TIMER	34
35	SPARE	(E)	1	20	0			0	0	20	1	(E)	SPARE	36
37					0	0			0	20	1	(E)	LR-3 FEED	38
39	EXISTING LOAD	(E)	3	100	0		0		0	20	1	(E)	LR-3 FEED	40
41					0			0	0	20	1	(E)	SPARE	42
	NOTES:						TOTALS							
	EC SHALL INSTALL A EQUIPMENT GROUCIRCUIT IN ACCORDANCE WITH NEC 25		UCT	OR WI	TH EACH	2300	2300 7600 VA	3000					21.09 AMPS	

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REVISIONS:

No. Description Date

PENNSYLVANIA NVENTION CENTER

ELECTRICAL PANEL SCHEDULES -SHEET 3

Project number CW1615

Date November 25, 2019

Drawn by RR,AS

Checked by HL

E803

					P	ANEL	_ SCI	HEDU	JLE					
	RP-4B7 - EXISTING PANEL: CONDITIONS											N	OUNTING: SURFACE	
	VOLTAGE: 208Y/120V	PHASE:		3			WIRE:	4	BUS	AMPS:	225	Α	MAIN:	
	NEMA 1	NEUTRAL:	10	00%	CO	PPER GR	OUND BU	JS - ISOL	ATED GR	OUND		I	OCATION: ELEC ROOM FOR 'Z'	
CIRCUIT	DESCRIPTION	WIRE	POLES	BKR SIZE	VA	A	/A / PHAS	E C	VA	BKR SIZE	POLES	WIRE	DESCRIPTION	CIRCUIT
$\rightarrow$	MEETING RM RECEPT 303	(E)	1	20	0	0		9	0	20	1	(E)	MEETING RM RECEPT 303	2
-	E.T.STORAGE RECEPTS	(E)	1	20	0	0	0		0	20	1	(E)	DAS IDF U	4
-+	MEETING RM RECEPT 301	(E)	1	20	0		0	0	0	20	1	(E)	DAS IDF U	6
-	MEETING RM RECEPT 303	(E)	1	20	0	0		U	0	20	'	(L)	DAS IDF 0	8
-+	OFFICE RECEPTACLES	(E)	1	20	0		0		0	20	2	(E)	WATER HEATER	10
-+	WATER COOLER RECEPT	(E)	1	20	0		U	0	0	20	1	(E)	EXISTING LOAD	12
-	EXISTING LOAD	(E)	1	20	0	0		0	0	20	'	(=)	EXISTING EGAB	14
-	EXISTING LOAD	(E)	1	20	0		0		0	30	2	(E)	EBR-1	16
-+	EXISTING LOAD	(E)	1	20	0		U	0	0	20	1	(E)	EXISTING LOAD	18
19	EXISTING EGAD	(=)		20	0	0		0	0	20	1	(E)	EXISTING LOAD	20
	EXISTING LOAD	(E)	3	100	0		0		0	20	1	(E)	EXISTING LOAD	22
23	EXISTING EGAB			100	0		0	0	0	20	'	(L)	EXISTING LOAD	24
-	SPACE	<del> </del>	-	-	0	0		0	0	100	3	(E)	EXISTING LOAD	26
-	SPACE	-	-	-	0	, and the second	0		0	1	$ $	(-/	Externite Eerts	28
-	SPACE	-	-	-	0			0	0	-	-	-	SPACE	30
31	SPACE	-	-	-	0	0			0	-	-	-	SPACE	32
33	SPACE	-	-	-	0		0		0	-	-	-	SPACE	34
35	SPACE	-	-	-	0			0	0	-	-		SPACE	36
	SPACE	-	-	-	0	0			0	-	-	-	SPACE	38
$\overline{}$	SPACE	-	-	-	0		0		0	-	-	-	SPACE	40
41	SPACE	-	-	-	0			0	0	-	-	-	SPACE	42
	NOTES:						TOTALS		]					
						0	0	0	]					
							0 VA						0.00 AMPS	

					PA	ANEL	SCH	HEDU	JLE					
	RP-5C5 - EXISTING PANEL: CONDITIONS											M	OUNTING: SURFACE	
	VOLTAGE: 208Y/120V	PHASE:		3			WIRE:	4	BUS A	MPS:	225 <i>A</i>	١	MAIN: 225A MCB	
	NEMA 1	NEUTRAL:	10	0%	COP	PER GRO	OUND BU	S - ISOLA	TED GRO	DUNE	)	L	OCATION: ELEC ROOM FOR 'A2'	
CIRCUIT	DESCRIPTION	WIRE	POLES	BKR SIZE	VA	A	/A / PHAS	E C	VA	BKR SIZE	POLES	WIRE	DESCRIPTION	CIRCUIT
1	RECEPT FOOD STAGING	(E)	1	20	0	0			0	20	1	(E)	RECEPT FOOD STAGING	2
3	RECEPT FOOD STAGING	(E)	1	20	0	Ü	0		0	20	1	(E)	RECEPT FOOD STAGING	4
	RECEPT FOOD STAGING	(E)	1	20	0		, i	0	0	20	1	(E)	RECEPT ELEC ROOM	6
	BAS XFRMR	(E)	1	20	0	0			0	20	1	(E)	RECEPT BOH PREFUNC TERR & ELEVATOR	8
9	SPARE	-	1	20	0		0		0	20	1	(E)	RECEPT PREFUNC LOUNGE	10
11	SPARE	-	1	20	0			0	0	20	1	-	SPARE	12
13	RECEPTS BOH FOOD STAGING	(E)	1	20	0	0			0	20	1	-	SPARE	14
15	RECEPTS BOH FOOD STAGING	(E)	1	20	0		0		0	20	1	(E)	UNIT HEATER #170	16
17	RECEPTS BOH FOOD STAGING	(E)	1	20	0			0	0	20	1	-	SPARE	18
19	ELEVATOR PIT LIGHTS	(E)	1	20	0	0			0	20	1	(E)	LTS WOMENS RM	20
21	EWC	(E)	1	20	0		0		0	20	1	(E)	LTS MENS RM	22
23	SOUND MEZZ RECEPT	(E)	1	20	0			0	0	20	1	(E)	CAMERA	24
25	SPARE	-	1	20	0	0			0	20	1	(E)	INFRARED SPOTS FOR CAMERAS	26
27	SPARE	-	1	20	0		0		0	20	1	-	SPARE	28
29	RECEPTS PREFUNC & MENS ROOM	(E)	1	20	0			0	0	20	1	-	SPARE	30
31	AT&T PHONES	(E)	1	20	0	0			0	20	1	-	SPARE	32
33	AT&T PHONES	(E)	1	20	0		0		0	30	1	(E)	RECEPTS SOUND MEZZ	34
35	SIEMENS FIRE ALARM PANEL	(E)	1	20	0			0	0	30	1	(E)	RECEPTS SOUND MEZZ	36
37	╡				0	0			0					38
_	EXISTING LOAD	(E)	3	30	0		0		0	30	3	-	SPARE	40
41					0		TOTALO	0	0					42
	NOTES:					0	TOTALS 0	0	-					
							0 VA		1				0.00 AMPS	

	RP-4B7 - PROPOSED PANEL: CONDITIONS											M	OUNTING: SURFACE	
	VOLTAGE: 208Y/120V	PHASE:		3			WIRE:	4	BUS	AMPS:	225 <i>F</i>	4	MAIN:	
	NEMA 1	NEUTRAL:	1	00%	COI	PPER GR	OUND BU	JS - ISOL	ATED GR	OUND		L	OCATION: ELEC ROOM FOR 'Z'	
CIRCUIT	DESCRIPTION	WIRE	POLES	BKR SIZE	VA	A	'A / PHAS	SE C	VA	BKR SIZE	POLES	WIRE	DESCRIPTION	1
	MEETING RM RECEPT 303	(E)	1	20	0	0			0	20	1	(E)	MEETING RM RECEPT 303	1
		` ′	+		<u> </u>	0	0					(E)		4
	E.T.STORAGE RECEPTS	(E)	1	20	0		0	0	0	20	1		DAS IDF U	
	MEETING RM RECEPT 301	(E)	1	20	0			0	0	20	1	(E)	DAS IDF U	-
	MEETING RM RECEPT 303	(E)	1	20	0	0	_		0	20	2	(E)	WATER HEATER	
9	OFFICE RECEPTACLES	(E)	1	20	0		0		0					1
11	WATER COOLER RECEPT	(E)	1	20	0			0	0	20	1	(E)	EXISTING LOAD	1
13	EXISTING LOAD	(E)	1	20	0	0			0	30	2	(E)	EBR-1	1
15	EXISTING LOAD	(E)	1	20	0		0		0		_	(-/	EBICT	1
17	EXISTING LOAD	(E)	1	20	0			0	0	20	1	(E)	EXISTING LOAD	1
19					0	0			0	20	1	(E)	EXISTING LOAD	2
21	EXISTING LOAD	(E)	3	100	0		0		0	20	1	(E)	EXISTING LOAD	2
23					0			0	0					2
25	Z - WOMEN'S TOWEL DISPENSER	12	1	20	100	100			0	100	3	(E)	EXISTING LOAD	2
27	Z - WOMEN'S HAND DRYER	12	1	20	1500		1500		0					2
	Z - WOMEN'S HAND DRYER	12	1	20	1500			2000	500	20	1	12	Z - MEN'S SOAP POWER	3
	Z - MEN'S TOWEL DISPENSER	12	1	20	100	600			500	20	1	12	Z - WOMEN'S SOAP POWER	3
	Z - MEN'S HAND DRYER	12	1	20	1500		1500		0	-	-	-	SPACE	3
	Z - MEN'S HAND DRYER	12	1	20	1500	000		1500	0	-	-	-	SPACE	3
37	Z - MEN & WOMEN RECEPT	12	1	20	360	360			0	-	-	-	SPACE	3
39	SPACE	-	-	-	0		0		0	-	-	-	SPACE	4
41	SPACE	-	L-		0			0	0		_	-	SPACE	4
	NOTES:						TOTALS							
	EC SHALL INSTALL A EQUIPMENT GRO		וחווכ.		-U EVCU	1060	3000	3500						
	CIRCUIT IN ACCORDANCE WITH NEC 25		אטטט	I OK WII	⊓ EACH		7560 VA	•					20.98 AMPS	

					P	ANEL	_ SCI	HEDI	JLE					
	RP-5C5 - PROPOSED PANEL: CONDITIONS											M	OUNTING: SURFACE	
	VOLTAGE: 208Y/120V	PHASE:	;	3			WIRE:	4	BUS	AMPS:	225 <i>A</i>	4	MAIN: 225A MCB	
	NEMA 1	NEUTRAL:	10	0%	COF	PPER GR	OUND BU	S - ISOL	ATED GR	OUND		L	OCATION: ELEC ROOM FOR 'A2'	
CIRCUIT	DESCRIPTION	WIRE	POLES	BKR SIZE	VA	A	'A / PHAS B	E C	VA	BKR SIZE	POLES	WIRE	DESCRIPTION	-:: : 0
1	RECEPT FOOD STAGING	(E)	1	20	0	0			0	20	1	(E)	RECEPT FOOD STAGING	
3	RECEPT FOOD STAGING	(E)	1	20	0		0		0	20	1	(E)	RECEPT FOOD STAGING	
5	RECEPT FOOD STAGING	(E)	1	20	0			0	0	20	1	(E)	RECEPT ELEC ROOM	T
7	BAS XFRMR	(E)	1	20	0	0			0	20	1	(E)	RECEPT BOH PREFUNC TERR & ELEVATOR	
9	A2 - WOMEN'S TOWEL DISPENSER & SOAP POWER	12	1	20	700		700		0	20	1	(E)	RECEPT PREFUNC LOUNGE	
11	A2 - WOMEN'S HAND DRYER	12	1	20	1500			1700	200	20	1	12	A2 - MEN'S TOWEL DISPENSER	
13	RECEPTS BOH FOOD STAGING	(E)	1	20	0	1500			1500	20	1	12	A2 - MEN'S HAND DRYER	
15	RECEPTS BOH FOOD STAGING	(E)	1	20	0		0		0	20	1	(E)	UNIT HEATER #170	
17	RECEPTS BOH FOOD STAGING	(E)	1	20	0			1500	1500	20	1	12	A2 - MEN'S HAND DRYER	
19	ELEVATOR PIT LIGHTS	(E)	1	20	0	0			0	20	1	(E)	LTS WOMENS RM	
21	EWC	(E)	1	20	0		0		0	20	1	(E)	LTS MENS RM	
23	SOUND MEZZ RECEPT	(E)	1	20	0			0	0	20	1	(E)	CAMERA	
25	A2 - WOMEN'S HAND DRYER	12	1	20	1500	1500			0	20	1	(E)	INFRARED SPOTS FOR CAMERAS	
27	A2 - WOMEN'S EDGELIT MIRROR	12	1	20	240		480		240	20	1	12	A2 - MEN'S EDGELIT MIRROR	
29	RECEPTS PREFUNC & MENS ROOM	(E)	1	20	0			0	0	20	1	-	SPARE	
31	AT&T PHONES	(E)	1	20	0	500			500	20	1	12	A2 - MEN'S SOAP POWER	T
33	AT&T PHONES	(E)	1	20	0		0		0	30	1	(E)	RECEPTS SOUND MEZZ	1
35	SIEMENS FIRE ALARM PANEL	(E)	1	20	0			0	0	30	1	(E)	RECEPTS SOUND MEZZ	Ī
37					0	0			0					I
	EXISTING LOAD	(E)	3	30	0		0		0	30	3	-	SPARE	L
41	NOTES:				0		TOTALS	0	0					
	EC SHALL INSTALL A EQUIPMENT GRO	I INDING CONI	DUC:	TOR V	VITH	3500	1180	3200						

MEP ENGINEERS:



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STRUCTURAL ENGINEERS: CSA GROUP 1341 NORTH DELAWARE AVENUE, SUITE 507 PHILADELPHIA, PA 19125

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REVISIONS:

No. Description Date

VENTION CENTER

ELECTRICAL PANEL SCHEDULES -SHEET 4

Project number CW1615

Date November 25, 2019

Drawn by RR,AS

Checked by

	RP-5C6 - EXISTING PANEL: CONDITIONS											М	OUNTING: SURFACE	
	VOLTAGE: 208Y/120V	PHASE:	;	3			WIRE:	4	BUS A	MPS:	100	<b>A</b>	MAIN: 100A MCB	
	NEMA 1	NEUTRAL:	10	0%	COP	PER GRO	OUND BU	S - ISOLA	TED GRO	DUNE	)	L	OCATION: ELEC ROOM FOR 'A1'	
CIRCUIT	DESCRIPTION	WIRE	POLES	BKR SIZE	VA	A	/A / PHAS	E C	VA	BKR SIZE	POLES	WIRE	DESCRIPTION	
1	RECEPT FOOD STAGING	(E)	1	20	0	0			0	20	1	(E)	RECEPT FOOD STAGING	T
3	RECEPT FOOD STAGING	(E)	1	20	0		0		0	20	1	(E)	RECEPT FOOD STAGING	
5	RECEPT FOOD STAGING	(E)	1	20	0			0	0	20	1	(E)	RECEPT FOOD STAGING	T
7	EXISTING LOAD	(E)	1	20	0	0			0	20	1	(E)	RECEPT WOMENS TOILET RM & TERRACE	
9	EXISTING LOAD	(E)	1	20	0		0		0	20	1	(E)	EXISTING LOAD	
11	EXISTING LOAD	(E)	1	20	0			0	0	20	1	-	SPARE	
13	RECEPTS BOH FOOD STAGING	(E)	1	20	0	0			0	20	1	(E)	RECEPT PREFUNC MENS TOILET RM	
15	RECEPTS BOH FOOD STAGING	(E)	1	20	0		0		0	20	1	(E)	EXISTING LOAD	
17	RECEPTS BOH FOOD STAGING	(E)	1	20	0			0	0	20	1	(E)	CAMERA	T
19	EWC	(E)	1	20	0	0			0	20	1	(E)	EXISTING LOAD	7
21	SOUND MEZZ RECEPT	(E)	1	20	0		0		0	20	1	(E)	SCONCE FIXTURES WOMENS ROOMS	
23	EXISTING LOAD	(E)	1	20	0			0	0	20	1	(E)	EXISTING LOAD	
25	EXISTING LOAD	(E)	1	20	0	0			0	20	1	(E)	EXISTING LOAD	1
27	ESCALATOR LT	(E)	1	20	0		0		0	20	1	(E)	EXISTING LOAD	
29	EXISTING LOAD	(E)	1	20	0			0	0	20	1	(E)	EXISTING LOAD	
31	COLIND MEZZ DECEDT	<b>(E)</b>	2	20	0	0			0	20	1	(E)	EXISTING LOAD	
33	SOUND MEZZ RECEPT	(E)	2	30	0		0		0	20	1	(E)	EXISTING LOAD	1
35	SPACE	-	-	_	0			0	0	20	1	(E)	EXISTING LOAD	
37	SPACE	-	-	-	0	0			0	20	1	(E)	EXISTING LOAD	
	SPACE	-	-	-	0		0		0	-	-	-	SPACE	
41	SPACE	-	-	-	0			0	0	-	-	-	SPACE	

					PA	ANEL	SCH	HEDL	JLE					
	RP-5C4 - EXISTING PANEL: CONDITIONS											M	OUNTING: SURFACE	
	VOLTAGE: 208Y/120V	PHASE:	;	3			WIRE:	4	BUS A	MPS:	225 <i>A</i>	4	MAIN: 225A MCB	
	NEMA 1	NEUTRAL:	10	0%	COP	PER GRO	UND BU	S - ISOLA	TED GRO	DUNE	)	L	OCATION: ELEC ROOM FOR 'A1'	
CIRCUIT	DESCRIPTION	WIRE	POLES	BKR SIZE	VA	A	'A / PHAS B	E C	VA	BKR SIZE	POLES	WIRE	DESCRIPTION	CIRCUIT
1	FLOOR RECEPTS BALLROOM	(E)	1	20	0	0			0	20	1	(E)	FLOOR RECEPTS BALLROOM	2
3	FLOOR RECEPTS BALLROOM	(E)	1	20	0		0		0	20	1	(E)	FLOOR RECEPTS BALLROOM	4
5	FLOOR RECEPTS BALLROOM	(E)	1	20	0			0	0	20	1	(E)	FLOOR RECEPTS BALLROOM	6
7	RECEPTS BALLROOM WEST SIDE	(E)	1	20	0	0			0	20	1	(E)	RECEPT NW EXIT OF BALLROOM	8
9	RECEPTS BALLROOM WEST SIDE	(E)	1	20	0		0		0	20	1	(E)	RECP IDC CC TELE	10
11	RECEPTS BALLROOM WEST SIDE	(E)	1	20	0			0	0	20	1	(E)	EXISTING LOAD	12
13	FLOOR RECEPTS BALLROOM	(E)	1	20	0	0			0	20	1	(E)	FLOOR RECEPTS FUNCTION AREA	14
15	BAS XFRMR	(E)	1	20	0		0		0	20	1	(E)	EXISTING LOAD	16
17	EXISTING LOAD	(E)	1	20	0			0	0	20	1	(E)	EXISTING LOAD	18
19	RECEPT SW ENT OF BALLROOM	(E)	1	20	0	0			0	20	1	(E)	FLOOR RECEPTS FUNCTION AREA	20
21	EXISTING LOAD	(E)	1	20	0		0		0	20	1	(E)	FLOOR RECEPTS FUNCTION AREA	22
23	EXISTING LOAD	(E)	1	20	0			0	0	20	1	(E)	FLOOR RECEPTS FUNCTION AREA	24
25	RECEPTS PREFUNC AREA	(E)	1	20	0	0			0	20	1	(E)	FLOOR RECEPTS FUNCTION AREA	26
27	EXISTING LOAD	(E)	1	20	0		0		0	20	1	(E)	ESCALATOR	28
29	ROOF RECEPT	(E)	1	20	0			0	0	20	1	-	SPARE	30
31	RECEPTS BALLROOM SOUTH	(E)	1	20	0	0			0	20	1	(E)	EXISTING LOAD	32
33	SPARE	-	1	20	0		0		0	20	1	-	SPARE	34
35	SPARE		1	20	0			0	0	20	1	(E)	AT&T PHONES	36
37	SPACE	-	-	-	0	0			0	20	1	(E)	AT&T PHONES	38
39	SPACE	-		-	0		0		0			-	SPACE	40
41	SPACE	-	-	-	0			0	0		-	-	SPACE	42
	NOTES:						TOTALS	·					<del></del>	
						0	0 0 VA	0					0.00 AMPS	

					PA	NEL	SCH	HEDU	JLE					
	RP-5C6 - PROPOSED PANEL: CONDITIONS											M	OUNTING: SURFACE	
	VOLTAGE: 208Y/120V	PHASE:	;	3			WIRE:	4	BUS A	MPS:	100/	4	MAIN: 100A MCB	
	NEMA 1	NEUTRAL:	10	0%	COP	PER GRO	UND BUS	S - ISOLA	TED GRO	DUND	)	L	OCATION: ELEC ROOM FOR 'A1'	
CIRCUIT	DESCRIPTION	WIRE	POLES	BKR SIZE	VA	A	'A / PHAS B	E C	VA	BKR SIZE	POLES	WIRE	DESCRIPTION	CIRCUIT
1	RECEPT FOOD STAGING	(E)	1	20	0	0			0	20	1	(E)	RECEPT FOOD STAGING	2
3	RECEPT FOOD STAGING	(E)	1	20	0		0		0	20	1	(E)	RECEPT FOOD STAGING	4
5	RECEPT FOOD STAGING	(E)	1	20	0			0	0	20	1	(E)	RECEPT FOOD STAGING	6
7	EXISTING LOAD	(E)	1	20	0	0			0	20	1	(E)	RECEPT WOMENS TOILET RM & TERRACE	8
9	EXISTING LOAD	(E)	1	20	0		0		0	20	1	(E)	EXISTING LOAD	10
11	EXISTING LOAD	(E)	1	20	0			500	500	20	1	12	A1 - WOMEN'S SOAP POWER	12
13	RECEPTS BOH FOOD STAGING	(E)	1	20	0	0			0	20	1	(E)	RECEPT PREFUNC MENS TOILET RM	14
15	RECEPTS BOH FOOD STAGING	(E)	1	20	0		0		0	20	1	(E)	EXISTING LOAD	16
17	RECEPTS BOH FOOD STAGING	(E)	1	20	0			0	0	20	1	(E)	CAMERA	18
19	EWC	(E)	1	20	0	0			0	20	1	(E)	EXISTING LOAD	20
21	SOUND MEZZ RECEPT	(E)	1	20	0		0		0	20	1	(E)	SCONCE FIXTURES WOMENS ROOMS	22
23	EXISTING LOAD	(E)	1	20	0			0	0	20	1	(E)	EXISTING LOAD	24
25	EXISTING LOAD	(E)	1	20	0	0			0	20	1	(E)	EXISTING LOAD	26
27	ESCALATOR LT	(E)	1	20	0		0		0	20	1	(E)	EXISTING LOAD	28
29	EXISTING LOAD	(E)	1	20	0			0	0	20	1	(E)	EXISTING LOAD	30
31	SOUND MEZZ RECEPT	(E)	2	30	0	0			0	20	1	(E)	EXISTING LOAD	32
33	300ND MEZZ NECEF I	(L)		30	0		0		0	20	1	(E)	EXISTING LOAD	34
35	A1 - WOMEN'S TOWEL DISPENSER	12	1	20	200			200	0	20	1	(E)	EXISTING LOAD	36
37	A1 - WOMEN'S HAND DRYER	12	1	20	1500	1500			0	20	1	(E)	EXISTING LOAD	38
	A1 - WOMEN'S HAND DRYER	12	1	20	1500		1500		0	-	-	-	SPACE	40
41	A1 - WOMEN'S EDGELIT MIRROR	12	1	20	240			240	0	-	-	-	SPACE	42
	NOTES:						TOTALS							
	EC SHALL INSTALL A EQUIPMENT GRO EACH CIRCUIT IN ACCORDANCE WITH		ouc	TOR V	VITH	1500	1500 3940 VA	940					10.94 AMPS	

					PA	NEL	SCH	EDU	LE					
	RP-5C4 - PROPOSED PANEL: CONDITIONS											M	OUNTING: SURFACE	
	VOLTAGE: 208Y/120V	PHASE:		3			WIRE:	4	BUS A	MPS:	225	Α	MAIN: 225A MCB	
	NEMA 1	NEUTRAL:	1	00%	COP	PER GRO	UND BUS	S - ISOLA	TED GRO	DUND	)	L	OCATION: ELEC ROOM FOR 'A1'	
CIRCUIT	DESCRIPTION	WIRE	POLES	BKR SIZE	VA	V A	A / PHAS B	E C	VA	BKR SIZE	POLES	WIRE	DESCRIPTION	CIRCUIT
1	FLOOR RECEPTS BALLROOM	(E)	1	20	0	0			0	20	1	(E)	FLOOR RECEPTS BALLROOM	2
3	FLOOR RECEPTS BALLROOM	(E)	1	20	0		0		0	20	1	(E)	FLOOR RECEPTS BALLROOM	4
5	FLOOR RECEPTS BALLROOM	(E)	1	20	0			0	0	20	1	(E)	FLOOR RECEPTS BALLROOM	6
7	RECEPTS BALLROOM WEST SIDE	(E)	1	20	0	0			0	20	1	(E)	RECEPT NW EXIT OF BALLROOM	8
9	RECEPTS BALLROOM WEST SIDE	(E)	1	20	0		0		0	20	1	(E)	RECP IDC CC TELE	10
11	RECEPTS BALLROOM WEST SIDE	(E)	1	20	0			0	0	20	1	(E)	EXISTING LOAD	12
13	FLOOR RECEPTS BALLROOM	(E)	1	20	0	0			0	20	1	(E)	FLOOR RECEPTS FUNCTION AREA	14
15	BAS XFRMR	(E)	1	20	0		0		0	20	1	(E)	EXISTING LOAD	16
17	EXISTING LOAD	(E)	1	20	0			0	0	20	1	(E)	EXISTING LOAD	18
19	RECEPT SW ENT OF BALLROOM	(E)	1	20	0	0			0	20	1	(E)	FLOOR RECEPTS FUNCTION AREA	20
21	EXISTING LOAD	(E)	1	20	0		0		0	20	1	(E)	FLOOR RECEPTS FUNCTION AREA	22
23	EXISTING LOAD	(E)	1	20	0			0	0	20	1	(E)	FLOOR RECEPTS FUNCTION AREA	24
25	RECEPTS PREFUNC AREA	(E)	1	20	0	0			0	20	1	(E)	FLOOR RECEPTS FUNCTION AREA	26
27	EXISTING LOAD	(E)	1	20	0		0		0	20	1	(E)	ESCALATOR	28
29	ROOF RECEPT	(E)	1	20	0			500	500	20	1	12	A1 - MEN'S SOAP POWER	30
31	RECEPTS BALLROOM SOUTH	(E)	1	20	0	0			0	20	1	(E)	EXISTING LOAD	32
33	A1 - MEN'S TOWEL DISPENSER	12	1	20	200		200		0	20	1	-	SPARE	34
35	A1 - MEN'S HAND DRYER	12	1	20	1500			1500	0	20	1	(E)	AT&T PHONES	36
37	A1 - MEN'S HAND DRYER	12	1	20	1500	1500			0	20	1	(E)	AT&T PHONES	38
39	A1 - MEN'S EDGELIT MIRROR	12	1	20	240		240		0	-	-	-	SPACE	40
41	SPACE	-	-	-	0			0	0	-	-	-	SPACE	42
	NOTES:		-	Į.	I		TOTALS			1			L	'-
	EC SHALL INSTALL A EQUIPMENT GROUND IN ACCORDANCE WITH NEC 25		IDUCT	TOR WIT	ГН ЕАСН	1500	440 3940 VA	2000					10.94 AMPS	

MEP ENGINEERS:



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STRUCTURAL ENGINEERS: CSA GROUP 1341 NORTH DELAWARE AVENUE, SUITE 507 PHILADELPHIA, PA 19125

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Contact: Wing Au e-mail: wau@csagroup.com



REVISIONS:

No. Description Date

ONVENTION CENTER

ELECTRICAL PANEL SCHEDULES -SHEET 5

Project number CW1615

Date November 25, 2019

Drawn by RR,AS

Checked by HL

E805

					PA	NEL	SCH	IEDU	LE					
	RP-3A1 - EXISTING PANEL: CONDITIONS											М	OUNTING: SURFACE	
	VOLTAGE: 208Y/120V	PHASE:		3			WIRE:	4	BUS A	MPS:	125	4	MAIN:	
	NEMA 1	NEUTRAL:	10	00%	COP	PER GRO	OUND BUS	S - ISOLA	TED GRO	DUNE	)	L	OCATION: ELEC ROOM FOR 'R&S'	
CIRCUIT	DESCRIPTION	WIRE	POLES	BKR SIZE	VA	A	'A / PHAS B	E C	VA	BKR SIZE	POLES	WIRE	DESCRIPTION	CIRCUIT
1	EXISTING LOAD	(E)	1	20	0	0			0	20	1	(E)	EXISTING LOAD	2
3	EXISTING LOAD	(E)	1	20	0		0		0	20	1	(E)	EXISTING LOAD	4
5	EXISTING LOAD	(E)	1	20	0			0	0	20	1	(E)	EXISTING LOAD	6
7	EXISTING LOAD	(E)	1	20	0	0			0	20	1	(E)	EXISTING LOAD	8
9					0		0		0	20	1	(E)	EXISTING LOAD	10
11	EXISTING LOAD	(E)	3	30	0			0	0	20	1	(E)	EXISTING LOAD	12
13					0	0			0	20	1	(E)	EXISTING LOAD	14
15	EXISTING LOAD	(E)	1	20	0		0		0	20	1	(E)	EXISTING LOAD	16
17	EXISTING LOAD	(E)	1	20	0			0	0	20	1	(E)	EXISTING LOAD	18
19	EXISTING LOAD	(E)	1	20	0	0			0	20	1	(E)	EXISTING LOAD	20
21	EXISTING LOAD	(E)	1	20	0		0		0	20	1	(E)	EXISTING LOAD	22
23	SPARE	-	1	20	0			0	0	20	1	(E)	EXISTING LOAD	24
25	SPARE	-	1	20	0	0			0	20	1	(E)	EXISTING LOAD	26
27	SPARE	-	1	20	0		0		0	20	1	(E)	EXISTING LOAD	28
29	SPARE	-	1	20	0			0	0	20	1	-	SPARE	30
31	SPARE	-	1	20	0	0			0	20	1	-	SPARE	32
33	SPARE	-	1	20	0		0		0	20	1	-	SPARE	34
35	SPARE	-	1	20	0			0	0	20	1	-	SPARE	36
37					0	0			0	20	1	-	SPARE	38
39	EXISTING LOAD	(E)	3	100	0		0		0	-	-	-	SPACE	40
41					0			0	0	-	-	-	SPACE	42
	NOTES:						TOTALS							
						0	0	0					0.00 11170	
							0 VA						0.00 AMPS	

	RP-3A1 - PROPOSED PANEL: CONDITIONS											M	OUNTING: SURFACE
	VOLTAGE: 208Y/120V	PHASE:		3			WIRE:	4	BUS A	MPS:	125	١	MAIN:
	NEMA 1	NEUTRAL:	10	00%	COP	PER GRO	DUND BUS	S - ISOLA	TED GRO	DUND	)	L	OCATION: ELEC ROOM FOR 'R&S'
CIRCUIT	DESCRIPTION	WIRE	POLES	BKR SIZE	VA	_	/A / PHAS	Ι	VA	BKR SIZE	POLES	WIRE	DESCRIPTION
ਹ			Ь			A	В	С		_	$\vdash$	,_,	
1	EXISTING LOAD	(E)	1	20	0	0			0	20	1	(E)	EXISTING LOAD
3	EXISTING LOAD	(E)	1	20	0		0		0	20	1	(E)	EXISTING LOAD
5	EXISTING LOAD	(E)	1	20	0			0	0	20	1	(E)	EXISTING LOAD
7	EXISTING LOAD	(E)	1	20	0	0			0	20	1	(E)	EXISTING LOAD
9					0		0		0	20	1	(E)	EXISTING LOAD
11	EXISTING LOAD	(E)	3	30	0			0	0	20	1	(E)	EXISTING LOAD
3					0	0			0	20	1	(E)	EXISTING LOAD
15	EXISTING LOAD	(E)	1	20	0		0		0	20	1	(E)	EXISTING LOAD
17	EXISTING LOAD	(E)	1	20	0			0	0	20	1	(E)	EXISTING LOAD
19	EXISTING LOAD	(E)	1	20	0	R			0	20	1	(E)	EXISTING LOAD
21	EXISTING LOAD	(E)	1	20	$\bigcirc$	/1	0		0	20	1	(E)	EXISTING LOAD
23	R - WOMEN'S TOWEL DISPENSER	12	1	20 (	600			600	0	20	1	(E)	EXISTING LOAD
25	R - WOMEN'S HAND DRYER	12	1	20	1500	1500			0	20	1	(E)	EXISTING LOAD
27	R - WOMEN'S HAND DRYER	12	1	20	1500		1500	^	$\sim$	20	1	(E)	EXISTING LOAD
29	R - WOMEN'S HAND DRYER	12	1	20	1500			2100	600	20	1	12	R- MEN'S TOWEL DISPENSER
31	S - MEN'S TOWEL DISPENSER	12	1	20	300	1800			1500	20	1	12	R - MEN'S HAND DRYER
33	S - MEN'S HAND DRYER	10	1	20	1500		3000		1500	20	1	12	R - MEN'S HAND DRYER
35	S - MEN'S HAND DRYER	10	1	20	1500			1800	300	20	1	12	S - WOMEN'S TOWEL DISPENSER
37					0	1500			1500	20	1	10	S - WOMEN'S HAND DRYER
39	EXISTING LOAD	(E)	3	100	0		1500		1500	20	1	10	S - WOMEN'S HAND DRYER
11					0	$\sim$		1500	1500	20	1	<u></u>	S-WOMEN'S HAND DRYER
	NOTES: EC SHALL INSTALL A EQUIPMENT GRO	UNDING CON	DUCT	ΓOR WI	TH EACH	4800	TOTALS 6000	6000					}

					PA	ANEL	. SCH	HEDU	JLE					
	RP-1A21 - PROPOSED PANEL: CONDITIONS											M	OUNTING: SURFACE	
	VOLTAGE: 208Y/120V	PHASE:		3			WIRE:	4	BUS	S AMPS:	400	Α	MAIN:	
	NEMA 1	NEUTRAL:	10	00%	COI	PPER GR	OUND BL	JS - ISOL	ATED GR	OUND		L	OCATION: ELEC ROOM FOR 'C'	
CIRCUIT	DESCRIPTION	WIRE	POLES	BKR SIZE	VA	V A	'A / PHAS B	E C	VA	BKR SIZE	POLES	WIRE	DESCRIPTION	CIRCUIT
1	FOOD CART	(E)	1	20	0	0			0	20	1	(E)	FOOD CART	2
3	FOOD CART	(E)	1	20	0		0		0	20	1	(E)	FOOD CART	4
5	FOOD CART	(E)	1	20	0			0	0	20	1	(E)	FOOD CART	6
7	FOOD CART	(E)	1	20	0	0			0	20	1	(E)	FOOD CART	8
9	FOOD CART	(E)	1	20	0		0		0	20	1	(E)	FOOD CART	10
11	FOOD CART	(E)	1	20	0			0	0	20	1	(E)	FOOD CART	12
13	FOOD CART	(E)	1	20	0	0			0	20	1	(E)	FOOD CART	14
15	EXISTING LOAD	(E)	1	20	0		0		0	20	1	(E)	FOOD CART	16
17	EXISTING LOAD	(E)	1	20	0			0	0	20	1	(E)	EXISTING LOAD	18
19	EXISTING LOAD	(E)	1	20	0	0			0	20	1	(E)	EXISTING LOAD	20
21	EXISTING LOAD	(E)	1	20	0		0		0	20	1	(E)	EXISTING LOAD	22
23	EXISTING LOAD	(E)	1	20	0			0	0	20	1	(E)	EXISTING LOAD	24
25	EXISTING LOAD	(E)	1	20	0	0			0	20	1	(E)	EXISTING LOAD	26
27	EXISTING LOAD	(E)	1	20	0		0		0	20	1	(E)	EXISTING LOAD	28
29	EXISTING LOAD	(E)	1	20	0			0	0	20	1	(E)	EXISTING LOAD	30
31	C - WOMEN'S TOWEL DISPENSER	12	1	20	200	400			200	20	1	12	C - MEN'S TOWEL DISPENSER	32
33	C - WOMEN'S HAND DRYER	10	1	20	1500		3000		1500	20	1	10	C - MEN'S HAND DRYER	34
35	C - WOMEN'S HAND DRYER	10	1	20	1500			3000	1500	20	1	10	C - MEN'S HAND DRYER	36
37	C - WOMEN'S SOAP POWER	12	1	20	500	1100			600	20 (GFI)	1	12	C - ELECTRIC WATER COOLER	38
39	SPACE	-	-	-	0		500		500	20	1	12	C - MEN'S SOAP POWER	40
41	SPACE	-	-	-	0			0	0	-	-	-	SPACE	42
	NOTES:						TOTALS	i						
						1500	3500	3000					00.00 44450	
<u> </u>							8000 VA						22.20 AMPS	



MEP ENGINEERS:



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Contact: Wing Au e-mail: wau@csagroup.com



REVISIONS:

No. Description Date

1 ELEC UPDATE 11/08/19

ONVENTION CENTER

ELECTRICAL PANEL SCHEDULES -SHEET 6

Project number CW1615

Date November 25, 2019

Drawn by RR,AS

Checked by HL

E806

					PA	NEL	SCH	EDU	LE					
	RP-1A14 - EXISTING PANEL: CONDITIONS											M	OUNTING: SURFACE	
	VOLTAGE: 208Y/120V	PHASE:		3			WIRE:	4	BUS A	MPS:	400	4	MAIN:	
	NEMA 1	NEUTRAL:	10	00%	COP	PER GRO	OUND BUS	S - ISOLA	TED GRO	DUNE	)	L	OCATION: ELEC ROOM FOR 'D'	
CIRCUIT	DESCRIPTION	WIRE	POLES	BKR SIZE	VA	A	'A / PHAS B	E C	VA	BKR SIZE	POLES	WIRE	DESCRIPTION	CIRCUIT
1					0	0			0	20	1	(E)	IDF RECEPT E-1	2
3	POWER OUTLET	(E)	3	100	0	ů –	0		0	-		-	SPACE	4
5	1				0		Ů	0	0	-	_	-	SPACE	6
7					0	0			0	20	1	(E)	DAS IDF E1	8
9	POWER OUTLET	(E)	3	100	0		0		0	20	1	(E)	DAS IDF E1	10
11	1				0			0	0	-	_	-	SPACE	12
13					0	0			0	-	-	-	SPACE	14
15	POWER OUTLET	(E)	3	100	0		0		0	-	-	-	SPACE	16
17	]				0			0	0	-	-	-	SPACE	18
19	SPACE	-	-	-	0	0			0	-	-	-	SPACE	20
21	SPACE	-	-	-	0		0		0	-	-	-	SPACE	22
23	SPACE	-	-	-	0			0	0	-	-	-	SPACE	24
25	SPACE	-	-	-	0	0			0	-	-	-	SPACE	26
27	SPACE	-	_	-	0		0		0	-	-	-	SPACE	28
29	SPACE	-	-	-	0			0	0	-	-	-	SPACE	30
31	W. ARCH ST TREE LIGHT RECEPT.	(E)	1	20	0	0			0	-	-	-	SPACE	32
33	SPACE	-	-	-	0		0		0	-	-	-	SPACE	34
35	SPACE	-	_	-	0			0	0	-	-	-	SPACE	36
37	W. ARCH ST TREE LIGHT RECEPT.	(E)	1	20	0	0			0	20	1	(E)	EXISTING LOAD	38
39	SPACE	-	-	-	0		0		0	20	1	(E)	EXISTING LOAD	40
41	EXISTING LOAD	(E)	1	20	0			0	0	20	1	(E)	EXISTING LOAD	42
	NOTES:		•	•			TOTALS			•				
						0	0	0						
							0 VA						0.00 AMPS	

					PA	NEL	. SCH	HEDL	JLE					
	RP-1A5 - EXISTING PANEL: CONDITIONS											M	OUNTING: SURFACE	
	VOLTAGE: 208Y/120V	PHASE:		3			WIRE:	4	BUS A	MPS:	225/	4	MAIN:	
	NEMA 1	NEUTRAL:	10	0%	COP	PER GRO	OUND BUS	S - ISOLA	TED GRO	DUNE	)	L	OCATION: ELEC ROOM FOR 'A'	
CIRCUIT	DESCRIPTION	WIRE	POLES	BKR SIZE	VA	A	/A / PHAS B	E C	VA	BKR SIZE	POLES	WIRE	DESCRIPTION	CIRCUIT
3	76 LEVEL AIR COMPRESSOR	(E)	2	20	0	0	0		0	20	2	(E)	WATER HEATER #2	2
5	EXISTING LOAD	(E)	1	20	0			0	0	20	1	(E)	EXISTING LOAD	6
7	REGISTER RECEPT	(E)	1	20	0	0			0	20	1	(E)	REGISTER RECEPT	8
9	REGISTER RECEPT	(E)	1	20	0		0		0	20	1	(E)	REGISTER RECEPT	10
11	REGISTER RECEPT	(E)	1	20	0			0	0	20	1	(E)	REGISTER RECEPT	12
13	RECEPT RM. 138	(E)	1	20	0	0			0	20	1	(E)	WALL HYDRANT HEAT TRACE	14
15	LIGHTING RELAY PANEL	(E)	1	20	0		0		0	20	1	(E)	LIGHTING RELAY PANEL	16
17	LIGHTING RELAY PANEL	(E)	1	20	0			0	0	20	1	(E)	LIGHTING RELAY PANEL	18
19	IDF E1	(E)	1	20	0	0			0	20	1	(E)	CHINA ART LTS. WEST ARCH ST	20
21	EXISTING LOAD	(E)	1	20	0		0		0	20	1	(E)	CHINA ART LTS. WEST ARCH ST	22
23	EXISTING LOAD	(E)	1	20	0			0	0	20	1	(E)	CHINA ART LTS. WEST ARCH ST	24
25	EXISTING LOAD	(E)	1	20	0	0			0	20	1	(E)	DAS IDF E2	26
27	EXISTING LOAD	(E)	1	20	0		0		0	20	1	(E)	DAS IDF E2	28
29	SPACE	-	-	-	0			0	0	-	-	-	SPACE	30
31	SPACE	-	-	-	0	0			0	-	-	-	SPACE	32
$\vdash$	SPACE	-	-	-	0		0		0	-	-	-	SPACE	34
$\vdash$	SPACE	-	-	-	0			0	0	-	-	-	SPACE	36
-	SPACE	-	-	-	0	0			0	-	-	-	SPACE	38
_	SPACE	-	-	-	0		0		0	-	-	-	SPACE	40
41	SPACE	-	-	-	0			0	0	-	-	-	SPACE	42
	NOTES:					_	TOTALS							
						0	0	0						
							0 VA						0.00 AMPS	

RP-1A14 - PROPOSED   CONDITIONS		OUNTING: SURFACE	
NEMA 1 NEUTRAL: 100% COPPER GROUND BUS - ISOLATED GROUND	400A		
		MAIN:	
DESCRIPTION  WIRE  S  S  S  S  VA  VA / PHASE  VA  B  C  VA  WA  WA  WA  WA  WA  WA  WA  WA  WA	L	OCATION: ELEC ROOM FOR 'D'	
O A B C E	S WIRE	DESCRIPTION	CIRCUIT
			ō
1 0 0 0 20	1 (E)	IDF RECEPT E-1	2
3 POWER OUTLET (E) 3 100 0 0 -		SPACE	4
5 0 1500 <b>1500 20</b>	1 10	D - MEN'S HAND DRYER	6
7 0 0 0 20	1 (E)	DAS IDF E1	8
9 POWER OUTLET (E) 3 100 0 0 0 20	1 (E)	DAS IDF E1	10
11 0 100 100 20	1 12	D - MEN'S TOWEL DISPENSER	12
13 0 1500 1500 20	1 10	D - MEN'S HAND DRYER	14
15 POWER OUTLET (E) 3 100 0 0 -		SPACE	16
17 0 0 -		SPACE	18
19 SPACE 0 200 <b>200 200</b>	1 12	D - WOMEN'S TOWEL DISPENSER	20
21 SPACE 0 1500 <b>1500 20</b>	1 10	D - WOMEN'S HAND DRYER	22
23 SPACE 0 1500 <b>1500 20</b>	1 10	D - WOMEN'S HAND DRYER	24
25 SPACE 0 1500 <b>1500 20</b>	1 10	D - WOMEN'S HAND DRYER	26
27 SPACE 0 360 360 20	1 12	D- GFI RECEPTS	28
29 SPACE 0 500 <b>500 20</b>	1 12	D - MEN'S SOAP POWER	30
31     W. ARCH ST TREE LIGHT RECEPT.     (E)     1     20     0     500     500     20	1 12	D - WOMEN'S SOAP POWER	32
33 SPACE 0 0 -		SPACE	34
35 SPACE 0 0 0 -		SPACE	36
37         W. ARCH ST TREE LIGHT RECEPT.         (E)         1         20         0         0         0         20	1 (E)	EXISTING LOAD	38
39 SPACE 0 0 0 20	1 (E)	EXISTING LOAD	40
41 EXISTING LOAD (E) 1 20 0 0 0 20	1 (E)	EXISTING LOAD	42
NOTES: TOTALS			$\Box$
EC SHALL INSTALL A EQUIPMENT GROUNDING CONDUCTOR WITH EACH CIRCUIT IN ACCORDANCE WITH NEC 250.122.		25.42 AMPS	

					P	ANE	L SC	HED	ULE					
	RP-1A5 - PROPOSED PANEL: CONDITIONS											M	OUNTING: SURFACE	
	VOLTAGE: 208Y/120V	PHASE:		3			WIRE:	4	BUS	S AMPS:	225A	\	MAIN:	
	NEMA 1	NEUTRAL:		0%	CO	PPER GR	ROUND BU						LOCATION: ELEC ROOM FOR 'A'	
CIRCUIT	DESCRIPTION	WIRE	POLES	BKR SIZE	VA	A	/A / PHAS	E C	VA	BKR SIZE	POLES	WIRE	DESCRIPTION	CIRCUIT
1	76 LEVEL AIR COMPRESSOR	(E)	2	20	0	0	0		0	20	2	(E)	WATER HEATER #2	2
5	EXISTING LOAD	(E)	1	20	0			0	0	20	1	(E)	EXISTING LOAD	6
7	REGISTER RECEPT	(E)	1	20	0	0			0	20	1	(E)	REGISTER RECEPT	8
9	REGISTER RECEPT	(E)	1	20	0		0		0	20	1	(E)	REGISTER RECEPT	10
11	REGISTER RECEPT	(E)	1	20	0			0	0	20	1	(E)	REGISTER RECEPT	12
13	RECEPT RM. 138	(E)	1	20	0	0			0	20	1	(E)	WALL HYDRANT HEAT TRACE	14
15	LIGHTING RELAY PANEL	(E)	1	20	0		0		0	20	1	(E)	LIGHTING RELAY PANEL	16
17	LIGHTING RELAY PANEL	(E)	1	20	0			0	0	20	1	(E)	LIGHTING RELAY PANEL	18
19	IDF E1	(E)	1	20	0	0			0	20	1	(E)	CHINA ART LTS. WEST ARCH ST	20
21	EXISTING LOAD	(E)	1	20	0		0		0	20	1	(E)	CHINA ART LTS. WEST ARCH ST	22
23	EXISTING LOAD	(E)	1	20	0			0	0	20	1	(E)	CHINA ART LTS. WEST ARCH ST	24
25	EXISTING LOAD	(E)	1	20	0	0			0	20	1	(E)	DAS IDF E2	26
27	EXISTING LOAD	(E)	1	20	0		0		0	20	1	(E)	DAS IDF E2	28
29	A - WOMEN'S HAND DRYER	10	1	20	1500			1600	100	20	1	12	A - MEN'S TOWEL DISPENSER	30
31	A - WOMEN'S HAND DRYER	10	1	20	1500	3000			1500	20	1	10	A - MEN'S HAND DRYER	32
33	A - WOMEN'S SOAP POWER	12	1	20	500		2000		1500	20	1	10	A - MEN'S HAND DRYER	34
35	A - MEN'S SOAP POWER	12	1	20	500			500	0	-	-	-	SPACE	36
37	SPACE	-	-	-	0	0			0	-	-	-	SPACE	38
39	SPACE	-	-	-	0		200		200	20	1	12	A - WOMEN'S TOWEL DISPENSER	40
41	SPACE	-	-	-	0			1500	1500	20	1	10	A - WOMEN'S HAND DRYER	42
	NOTES:						TOTALS	i	]					
	EC SHALL INSTALL A EQUIPMENT GR EACH CIRCUIT IN ACCORDANCE WIT			TOR V	VITH	3000	2200 8800 VA	3600					24.43 AMPS	

**MEP ENGINEERS:** 



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**REVISIONS**: No. Description Date

ELECTRICAL PANEL SCHEDULES -SHEET 7

CW1615 November 25, 2019 RR,AS Checked by

E807

					P/	NEL	. SCH	HEDU	JLE					
	RP-1A7 - EXISTING PANEL: CONDITIONS											М	OUNTING: SURFACE	
	VOLTAGE: 208Y/120V	PHASE:	;	3			WIRE:	4	BUS A	MPS:	400	4	MAIN: 250A MCB	
	NEMA 1	NEUTRAL:	10	0%	COP	PER GRO	OUND BUS	S - ISOLA	TED GRO	DUNE	)	L	OCATION: ELEC ROOM FOR 'B'	
CIRCUIT	DESCRIPTION	WIRE	POLES	BKR SIZE	VA	A	/A / PHAS	E C	VA	BKR SIZE	POLES	WIRE	DESCRIPTION	TILIDAID
1	RECEPT RM. 111	(E)	1	20	0	0			0	20	1	(E)	EXISTING LOAD	2
3	CONT. WEST RECEPTS. RM109	(E)	1	20	0		0		0	20	1	(E)	EXISTING LOAD	4
5	RECEPTS MR 109	(E)	1	20	0			0	0	20	1	(E)	EXISTING LOAD	6
7	EXISTING LOAD	(E)	1	20	0	0			0	20	1	(E)	EXISTING LOAD	7
9	RECEPTS. WEST (3)	(E)	1	20	0		0		0	20	1	(E)	EXISTING LOAD	1
11	RECEPTS. RM. 106 (5)	(E)	1	20	0			0	0	20	1	(E)	EXISTING LOAD	1
13	EXISTING LOAD	(E)	1	20	0	0			0	20	1	(E)	EXISTING LOAD	1
15	EXISTING LOAD	(E)	1	20	0		0		0	20	1	(E)	EXISTING LOAD	1
17	EXISTING LOAD	(E)	1	20	0			0	0	20	1	(E)	EXISTING LOAD	1
19	EXISTING LOAD	(E)	1	20	0	0			0	20	1	(E)	EXISTING LOAD	2
21	EXISTING LOAD	(E)	1	20	0		0		0	20	1	(E)	EXISTING LOAD	2
23	RECEPTS RM.	(E)	1	20	0			0	0	20	1	(E)	EXISTING LOAD	2
25	ATC CKT	(E)	1	20	0	0			0	20	1	(E)	EXISTING LOAD	2
27	EXISTING LOAD	(E)	1	20	0		0		0	20	1	(E)	EXISTING LOAD	2
29	EXISTING LOAD	(E)	1	20	0			0	0	-	-	-	SPACE	3
31	SPACE	-	-	- 1	0	0			0	-	-	-	SPACE	3
33	SPACE	-	-	-	0		0		0	-	-	-	SPACE	3
35	SPACE	-	-	-	0			0	0	-	-	-	SPACE	3
		-	_	-	0	0			0	-	-	-	SPACE	3
	SPACE	-	-	-	0		0		0	50	2	(E)	E	4
41	1	-	-	-	0		TOTALO	0	0					4
	NOTES:						TOTALS							
						0	0 0 VA	0					0.00 AMPS	

					PA	NEL	SCF	HEDU	JLE					
	RP-3B6 - EXISTING PANEL: CONDITIONS											М	OUNTING: SURFACE	
	VOLTAGE: 208Y/120V	PHASE:		3			WIRE:	4	BUS A	MPS:	125/	4	MAIN: 100A MCB	
	NEMA 1	NEUTRAL:	10	0%	COP	PER GRO	UND BUS	S - ISOLA	TED GRO	JUNE	)	L	OCATION: ELEC ROOM FOR 'P,N,O'	
╘			S	ZE		V	'A / PHAS	E		TH.	S			∃
CIRCUIT	DESCRIPTION	WIRE	POLES	BKR SIZE	VA			_ 	VA	BKR SIZE	POLES	WIRE	DESCRIPTION	CIRCUIT
등			<u>~</u>	BK		Α	В	С		¥	M			5
1	SMOKE ALARM DOOR POWER	(E)	1	20	0	0			0	20	1	(E)	EXISTING LOAD	2
3	SMOKE ALARM DOOR POWER	(E)	1	20	0		0		0	20	1	-	SPARE	4
5	SMOKE ALARM DOOR POWER	(E)	1	20	0			0	0	20	1	-	SPARE	6
7	SMOKE ALARM DOOR POWER	(E)	1	20	0	0			0	20	1	-	SPARE	8
9	SPARE	-	1	20	0		0		0	20	1	-	SPARE	10
11	SPARE	-	1	20	0			0	0	20	1	-	SPARE	12
13	SPARE	-	1	20	0	0			0	20	1	-	SPARE	14
15	SPARE	-	1	20	0		0		0	20	1	-	SPARE	16
17	SPARE	-	1	20	0			0	0	20	1	-	SPARE	18
19	SPARE	-	1	20	0	0			0	20	1	-	SPARE	20
21	SPARE	-	1	20	0		0		0	20	1	-	SPARE	22
23	SPARE	-	1	20	0			0	0	20	1	-	SPARE	24
25	SPARE	-	1	20	0	0			0	20	1	-	SPARE	26
27	SPARE	-	1	20	0		0		0	20	1	-	SPARE	28
29	SPARE	-	1	20	0			0	0	20	1	-	SPARE	30
31	SPARE	-	1	20	0	0			0	20	1	-	SPARE	32
33	SPARE	-	1	20	0		0		0	20	1	-	SPARE	34
35	SPARE	-	1	20	0			0	0	20	1	-	SPARE	36
37	SPARE	-	1	20	0	0			0	20	1	-	SPARE	38
39	SPARE	-	1	20	0		0		0	20	1	-	SPARE	40
41	SPARE	-	1	20	0			0	0	20	1	-	SPARE	42
	NOTES:						TOTALS							
						0	0	0						
							0 VA						0.00 AMPS	

	RP-1A7 - PROPOSED PANEL: CONDITIONS											M	OUNTING: SURFACE	
	VOLTAGE: 208Y/120V	PHASE:		3			WIRE:	4	BUS A	MPS:	400	4	MAIN: 250A MCB	
	NEMA 1	NEUTRAL:	10	00%	COP	PER GRO	DUND BUS	S - ISOLA	TED GRO	DUNE	)	L	OCATION: ELEC ROOM FOR 'B'	
_			ES	SIZE		\	/A / PHAS	Ε		IZE	ES			
CIRCUIT	DESCRIPTION	WIRE	POLES	BKR S	VA	А	В	С	VA	BKR SIZE	POLES	WIRE	DESCRIPTION	
1	RECEPT RM. 111	(E)	1	20	0	0			0	20	1	(E)	EXISTING LOAD	
3	CONT. WEST RECEPTS. RM109	(E)	1	20	0		0		0	20	1	(E)	EXISTING LOAD	
5	RECEPTS MR 109	(E)	1	20	0			0	0	20	1	(E)	EXISTING LOAD	
7	EXISTING LOAD	(E)	1	20	0	0			0	20	1	(E)	EXISTING LOAD	
9	RECEPTS. WEST (3)	(E)	1	20	0		0		0	20	1	(E)	EXISTING LOAD	
1	RECEPTS. RM. 106 (5)	(E)	1	20	0			0	0	20	1	(E)	EXISTING LOAD	
3	EXISTING LOAD	(E)	1	20	0	0			0	20	1	(E)	EXISTING LOAD	
5	EXISTING LOAD	(E)	1	20	0		0		0	20	1	(E)	EXISTING LOAD	
7	EXISTING LOAD	(E)	1	20	0			0	0	20	1	(E)	EXISTING LOAD	
9	EXISTING LOAD	(E)	1	20	0	0			0	20	1	(E)	EXISTING LOAD	
21	EXISTING LOAD	(E)	1	20	0		0		0	20	1	(E)	EXISTING LOAD	
23	RECEPTS RM.	(E)	1	20	0			0	0	20	1	(E)	EXISTING LOAD	
25	ATC CKT	(E)	1	20	0	0			0	20	1	(E)	EXISTING LOAD	
27	EXISTING LOAD	(E)	1	20	0		0		0	20	1	(E)	EXISTING LOAD	
29	EXISTING LOAD	(E)	1	20	0			500	500	20	1	12	B - WOMEN'S SOAP POWER	
31	B - WOMEN'S TOWEL DISPENSER	12	1	20	200	700			500	20	1	12	B - MEN'S SOAP POWER	
33	B - WOMEN'S HAND DRYER	10	1	20	1500		1500		0	-	-	-	SPACE	
35	B - WOMEN'S HAND DRYER	10	1	20	1500			1500	0	-	-	-	SPACE	
	B - MEN'S TOWEL DISPENSER	12	1	20	200	200			0	<u> </u>	-	-	SPACE	
9	B - MEN'S HAND DRYER	10	1	20	1500		1500		0	-				
11	B - ELECTRIC WATER COOLER	12	1	20 (GFI)	600			600	0	50	2	(E)	E	
	NOTES:		l				TOTALS			1			1	
	EC SHALL INSTALL A EQUIPMENT GRO	LINDING CON	DUO	50D W/IT		900	3000	2600						

	RP-3B6 - PROPOSED PANEL: CONDITIONS											М	OUNTING: SURFACE	
	VOLTAGE: 208Y/120V	PHASE:		3			WIRE:	4	BUS A	MPS:	125/	4	MAIN: 100A MCB	
	NEMA 1	NEUTRAL:	1	00%	COP	PER GRO	OUND BU	S - ISOLA	TED GRO	DUNE	)	L	OCATION: ELEC ROOM FOR 'P,N,O'	
CIRCUIT	DESCRIPTION	WIRE	POLES	BKR SIZE	VA	_	/A / PHAS		VA	BKR SIZE	POLES	WIRE	DESCRIPTION	
ਹ			п.	B		A	В	С		_	ш			$\downarrow$
1	SMOKE ALARM DOOR POWER	(E)	1	20	0	0			0	20	1	(E)	EXISTING LOAD	$\downarrow$
3	SMOKE ALARM DOOR POWER	(E)	1	20	0		300		300	20	1	12	N - WOMEN'S TOWEL DISPENSER	
5	SMOKE ALARM DOOR POWER	(E)	1	20	0			1500	1500	20	1	8	N - WOMEN'S HAND DRYER	Ī
7	SMOKE ALARM DOOR POWER	(E)	1	20	0	1500			1500	20	1	8	N - WOMEN'S HAND DRYER	T
9	P - WOMEN'S TOWEL DISPENSER	12	1	20	600		900		300	20	1	12	O - MEN'S TOWEL DISPENSER	
11	P - WOMEN'S HAND DRYER	12	1	20	1500			3000	1500	20	1	8	O - MEN'S HAND DRYER	Ι
13	P - WOMEN'S HAND DRYER	12	1	20	1500	3000			1500	20	1	8	O - MEN'S HAND DRYER	Ţ
15	P - WOMEN'S HAND DRYER	12	1	20	1500		2000		500	20	1	12	P - MEN'S SOAP POWER	
17	P - WOMEN'S HAND DRYER	12	1	20	1500			2000	500	20	1	12	P - WOMEN'S SOAP POWER	
19	P - WOMEN'S HAND DRYER	12	1	20	1500	2000			500	20	1	12	N - WOMEN'S SOAP POWER	
21	P - WOMEN'S ELECTRIC WATER COOLER	12	1	20 (GFI)	600		1100		500	20	1	12	O - MEN'S SOAP POWER	
23	P - MEN'S ELECTRIC WATER COOLER	12	1	20 (GFI)	600			600	0	20	1	-	SPARE	1
25	P - MEN'S TOWEL DISPENSER	12	1	20	600	600			0	20	1	-	SPARE	T
27	P - MEN'S HAND DRYER	12	1	20	1500		1500		0	20	1	-	SPARE	T
29	P - MEN'S HAND DRYER	12	1	20	1500			1500	0	20	1	-	SPARE	
31	P - MEN'S HAND DRYER	12	1	20	1500	1500			0	20	1	-	SPARE	
33	P - MEN'S HAND DRYER	12	1	20	1500		1500		0	20	1	-	SPARE	
35	P - MEN'S HAND DRYER	12	1	20	1500			1500	0	20	1	-	SPARE	$\rfloor$
37	SPARE	-	1	20	0	0			0	20	1	-	SPARE	1
39	SPARE	-	1	20	0		0		0	20	1	-	SPARE	╛
41	SPARE	-	1	20	0			0	0	20	1	-	SPARE	
	NOTES:						TOTALS							
	EC SHALL INSTALL A EQUIPMENT GRO					8600	7300	10100	1					

MEP ENGINEERS:



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Contact: Wing Au e-mail: wau@csagroup.com



REVISIONS:

No. Description Date

JENNSYLVANIA IVENTION CENTER

ELECTRICAL PANEL SCHEDULES -SHEET 8

Project number CW1615

Date November 25, 2019

Drawn by RR,AS

E808

cale NOT TO SCALE

Checked by

					PA	NEL	SCH	HEDU	JLE					
	RP-3A19 - EXISTING PANEL: CONDITIONS											M	OUNTING: SURFACE	
	VOLTAGE: 208Y/120V	PHASE:	;	3			WIRE:	4	BUS A	MPS:	125 <i>A</i>	\	MAIN:	
	NEMA 1	NEUTRAL:	10	0%	COP	PER GRO	UND BU	S - ISOLA	TED GRO	DUNE	)	L	OCATION: ELEC ROOM FOR 'M'	
CIRCUIT	DESCRIPTION	WIRE	POLES	BKR SIZE	VA	A	'A / PHAS	C C	VA	BKR SIZE	POLES	WIRE	DESCRIPTION	CIRCUIT
1	EXISTING LOAD	(E)	1	20	0	0			0	-	-	-	SPACE	2
3	EXISTING LOAD	(E)	1	20	0		0		0	-	-	-	SPACE	4
5	EXISTING LOAD	(E)	1	20	0			0	0	-	-	-	SPACE	6
7	CEILING REC. BY COL & TEL REC EAST SIDE	(E)	1	20	0	0			0	-	-	-	SPACE	8
9	EXISTING LOAD	(E)	1	20	0		0		0	-	-	-	SPACE	10
11	2 TV FRONT OF B HALL	(E)	1	20	0			0	0	-	-	-	SPACE	12
13	SPACE	-	-	-	0	0			0	30	1	(E)	EXISTING LOAD	14
15	EXISTING LOAD	(E)	1	30	0		0		0	30	1	(E)	EXISTING LOAD	16
17	EXISTING LOAD	(E)	1	30	0			0	0	20	1	(E)	BRIDGE EAST REC	18
19	EXISTING LOAD	(E)	1	20	0	0			0	20	1	(E)	BRIDGE TV REC	20
21	BRIDGE RECEPT. WEST SIDE	(E)	1	20	0		0		0	20	1	(E)	EXISTING LOAD	22
23	BRIDGE RECEPT. WEST SIDE	(E)	1	20	0			0	0	20	1	(E)	EAST BRIDGE REC.	24
25	EXISTING LOAD	(E)	1	20	0	0			0	20	1	(E)	EXISTING LOAD	26
27	EXISTING LOAD	(E)	1	20	0		0		0	20	1	(E)	BRIDGE EAST REC.	28
29	EXISTING LOAD	(E)	1	20	0			0	0	20	1	(E)	BRIDGE RECPT. WEST SIDE	30
31	EXISTING LOAD	(E)	1	20	0	0			0	20	1	(E)	BRIDGE EAST REC.	32
33	EXISTING LOAD	(E)	1	20	0		0		0	20	1	(E)	EXISTING LOAD	34
35	EXISTING LOAD	(E)	1	20	0			0	0	20	1	(E)	BRIDGE EAST REC.	36
37	EXISTING LOAD	(E)	1	20	0	0			0	20	1	(E)	RECP. "O" ROOM	38
39	EXISTING LOAD	(E)	1	20	0		0		0	100		(E)		40
41	BRIDGE EAST REC	(E)	1	20	0			0	0	20	2	(E)	HWH "B" HALL	42
	NOTES:						TOTALS							•
						0	0 0 VA	0					0.00 AMPS	

					P <i>P</i>	NEL	SCF	IEDL	JLE					
	RP-3B8 - EXISTING PANEL: CONDITIONS											M	OUNTING: SURFACE	
	VOLTAGE: 208Y/120V	PHASE:	;	3			WIRE:	4	BUS A	MPS:	225	Ą	MAIN:	
	NEMA 1	NEUTRAL:	10	0%	COP	PER GRO	OUND BU	S - ISOLA	TED GR	OUNE	)	L	OCATION: ELEC ROOM FOR 'Q'	
CIRCUIT	DESCRIPTION	WIRE	POLES	BKR SIZE	VA	A	/A / PHAS	E C	VA	BKR SIZE	POLES	WIRE	DESCRIPTION	CIRCUIT
1	REC BACK OFFICE	(E)	1	20	0	0			0	20	1	(E)	TELEPHONE ROOM	2
3	REC BACK OFFICE	(E)	1	20	0		0		0	20	1	(E)	TELEPHONE ROOM	4
5	COPIER MACH	(E)	1	20	0			0	0	20	1	(E)	EXISTING LOAD	6
7	AC & HEATING	(E)	1	20	0	0			0	20	2	(E)	A/C UNIT EXHIT SERVICES	8
9	CUBICAL SPARE	(E)	1	20	0		0		0			( )		10
11	CUBICAL SPARE	(E)	1	20	0			0	0	20	,	/E)	A/C UNIT EXHIT SERVICES	12
13	CUBICAL SPARE	(E)	1	20	0	0			0	20	2	(E)	A/C UNIT EXHIT SERVICES	14
15	CUBICAL SPARE	(E)	1	20	0		0		0	20	1	-	SPARE	16
17	CUBICAL SPARE	(E)	1	20	0			0	0	20	1	-	SPARE	18
19	CUBICAL SPARE	(E)	1	20	0	0			0	20	1	-	SPARE	20
21	CUBICAL SPARE	(E)	1	20	0		0		0	20	1	-	SPARE	22
23	CUBICAL SPARE	(E)	1	20	0			0	0	20	1	-	SPARE	24
25	SPARE	-	1	20	0	0			0	20	1	-	SPARE	26
27	SPARE	-	1	20	0		0		0	20	1	-	SPARE	28
29	SPARE	-	1	20	0			0	0	20	1	-	SPARE	30
31	SPARE	-	1	20	0	0			0	20	1	-	SPARE	32
33	SPARE	-	1	20	0		0		0	20	1	-	SPARE	34
35	SPARE	-	1	20	0			0	0	20	1	-	SPARE	36
37	SPARE	-	1	20	0	0			0	20	1	-	SPARE	38
39	SPARE	-	1	20	0		0		0	20	1	-	SPARE	40
41	SPARE	-	1	20	0			0	0	20	1	-	SPARE	42
	NOTES:			•			TOTALS			•	•		•	
						0	0	0						
							0 VA						0.00 AMPS	

	RP-3A19 - PROPOSED CONDITIONS											N	IOUNTING: SURFACE	
	VOLTAGE: 208Y/120V	PHASE:	;	3			WIRE:	4	BUS	S AMPS:	125/	١	MAIN:	
	NEMA 1	NEUTRAL:	10	0%	COI	PPER GR	OUND BL	JS - ISOL	ATED GR	OUND		L	OCATION: ELEC ROOM FOR 'L&M'	_
CIRCUIT	DESCRIPTION	WIRE	POLES	BKR SIZE	VA		'A / PHAS		VA	BKR SIZE	POLES	WIRE	DESCRIPTION	
ᄗ			Δ.	à		A	В	С		亩	Δ.			$\dashv$
1	EXISTING LOAD	(E)	1	20	0	700			700	20	1	12	L&M - TOWEL DISPENSERS & WOMEN'S SOAP POWER	
3	EXISTING LOAD	(E)	1	20	0		1500		1500	20	1	12	L - WOMEN'S HAND DRYER	$\perp$
5	EXISTING LOAD	(E)	1	20	0			1500	1500	20	1	12	L - WOMEN'S HAND DRYER	
7	CEILING REC. BY COL & TEL REC EAST SIDE	(E)	1	20	0	1500			1500	20	1	12	M - MEN'S HAND DRYER	
9	EXISTING LOAD	(E)	1	20	0		1500		1500	20	1	12	M - MEN'S HAND DRYER	
11	2 TV FRONT OF B HALL	(E)	1	20	0			0	0	-	-	-	SPACE	
13	M - MENS ROOM RECEPT & SOAP POWER	12	1	20	680	680			0	30	1	(E)	EXISTING LOAD	
15	EXISTING LOAD	(E)	1	30	0		0		0	30	1	(E)	EXISTING LOAD	
17	EXISTING LOAD	(E)	1	30	0			0	0	20	1	(E)	BRIDGE EAST REC	
19	EXISTING LOAD	(E)	1	20	0	0			0	20	1	(E)	BRIDGE TV REC	
21	BRIDGE RECEPT. WEST SIDE	(E)	1	20	0		0		0	20	1	(E)	EXISTING LOAD	
23	BRIDGE RECEPT. WEST SIDE	(E)	1	20	0			0	0	20	1	(E)	EAST BRIDGE REC.	
25	EXISTING LOAD	(E)	1	20	0	0			0	20	1	(E)	EXISTING LOAD	
27	EXISTING LOAD	(E)	1	20	0		0		0	20	1	(E)	BRIDGE EAST REC.	
29	EXISTING LOAD	(E)	1	20	0			0	0	20	1	(E)	BRIDGE RECPT. WEST SIDE	$\sqcap$
31	EXISTING LOAD	(E)	1	20	0	0			0	20	1	(E)	BRIDGE EAST REC.	T
33	EXISTING LOAD	(E)	1	20	0		0		0	20	1	(E)	EXISTING LOAD	
35	EXISTING LOAD	(E)	1	20	0			0	0	20	1	(E)	BRIDGE EAST REC.	
37	EXISTING LOAD	(E)	1	20	0	0			0	20	1	(E)	RECP. "O" ROOM	
39	EXISTING LOAD	(E)	1	20	0		0		0	00		/E\	LIVA/LL UDULLIAL I	
41	BRIDGE EAST REC	(E)	1	20	0			0	0	20	2	(E)	HWH "B" HALL	Ī
	NOTES:						TOTALS			-			•	_

					PA	NEL	SCH	HEDU	JLE					
	RP-3B8 - PROPOSED PANEL: CONDITIONS											М	OUNTING: SURFACE	
	VOLTAGE: 208Y/120V	PHASE:		3			WIRE:	4	BUS A	MPS:	225	Ą	MAIN:	
	NEMA 1	NEUTRAL:	10	0%	COP	PER GRO	UND BUS	S - ISOLA	TED GRO	DUND	)	L	OCATION: ELEC ROOM FOR 'Q'	
CIRCUIT	DESCRIPTION	WIRE	POLES	BKR SIZE	VA	A	'A / PHAS B	E C	· VA	BKR SIZE	POLES	WIRE	DESCRIPTION	CIRCUIT
1	REC BACK OFFICE	(E)	1	20	0	0			0	20	1	(E)	TELEPHONE ROOM	2
3	REC BACK OFFICE	(E)	1	20	0		0		0	20	1	(E)	TELEPHONE ROOM	4
5	COPIER MACH	(E)	1	20	0			0	0	20	1	(E)	EXISTING LOAD	6
7	AC & HEATING	(E)	1	20	0	0			0	20	2	(E)	A/C UNIT EXHIT SERVICES	8
9	CUBICAL SPARE	(E)	1	20	0		0		0					10
1	CUBICAL SPARE	(E)	1	20	0			0	0	20	2	(E)	A/C UNIT EXHIT SERVICES	12
13	CUBICAL SPARE	(E)	1	20	0	0			0			. ,		14
15	CUBICAL SPARE	(E)	1	20	0		300		300	20	1	12	Q - MEN'S TOWEL DISPENSER	16
17	CUBICAL SPARE	(E)	1	20	0			1500	1500	20	1	12	Q - MEN'S HAND DRYER	18
19	CUBICAL SPARE	(E)	1	20	0	1500			1500	20	1	12	Q - MEN'S HAND DRYER	20
21	CUBICAL SPARE	(E)	1	20	0		1500		1500	20	1	12	Q - WOMEN'S HAND DRYER	22
23	CUBICAL SPARE	(E)	1	20	0			1500	1500	20	1	12	Q - WOMEN'S HAND DRYER	24
25	SPARE	-	1	20	0	1500			1500	20	1	12	Q - WOMEN'S HAND DRYER	26
27	SPARE	-	1	20	0		300		300	20	۲)	12	Q - WOMEN'S TOWEL DISPENSER	28
29	SPARE	-	1	20	0			300 (	300	20	1	12	Q- MEN'S SINK SOAP POWER	30
31	SPARE	-	1	20	0	300			300	20	1	12	Q- WOMEN'S SINK SOAP POWER	32
33	SPARE	-	1	20	0		0		$\sim$	20	<b>₹</b>		SPARE	34
35	SPARE	-	1	20	0			0	0	20	1	-	SPARE	36
37	SPARE	-	1	20	0	0			0	20	1	-	SPARE	38
39	SPARE	-	1	20	0		0		0	20	1	-	SPARE	40
41	SPARE	-	1	20	0			0	0	20	1	-	SPARE	42
	NOTES:						IQTALS			$\sim$				<u> </u>
	EC SHALL INSTALL A EQUIPMENT GRO EACH CIRCUIT IN ACCORDANCE WITH		DUC.	TOR V	vith {	3300	2100 8700 VA	3300	ľ	· ·	•	V V V	24.15 AMPS	``

**MEP ENGINEERS:** 



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**REVISIONS**: Date No. Description 1 ELEC UPDATE 11/08/19

ELECTRICAL PANEL SCHEDULES -SHEET 9

CW1615 November 25, 2019 RR,AS Checked by

E809

					PA	NEL	SCH	HEDU	JLE					
	RP-4A1 - EXISTING PANEL: CONDITIONS											М	OUNTING: SURFACE	
	VOLTAGE: 208Y/120V	PHASE:	;	3			WIRE:	4	BUS A	MPS:	225	A	MAIN:	
	NEMA 1	NEUTRAL:	10	0%	COP	PER GRO	OUND BU	S - ISOLA	TED GRO	DUNE	)	L	OCATION: ELEC ROOM FOR 'Y'	
CIRCUIT	DESCRIPTION	WIRE	POLES	BKR SIZE	VA	_	/A / PHAS		VA	BKR SIZE	POLES	WIRE	DESCRIPTION	CIRCUIT
Ö			Щ	-		A	В	С		_	ш			
1	FIXTURES HALLWAY	(E)	1	20	0	0			0	20	1	(E)	EXISTING LOAD	2
3	LIGHTING MR 304	(E)	1	20	0		0		0	20	1	(E)	EXISTING LOAD	4
5	LIGHTING M5 305	(E)	1	20	0			0	0	20	1	(E)	EXISTING LOAD	6
7	EXISTING LOAD	(E)	1	20	0	0			0	20	1	(E)	EXISTING LOAD	8
9	EXISTING LOAD	(E)	1	20	0		0		0	20	1	(E)	EXISTING LOAD	10
11	EXISTING LOAD	(E)	1	20	0			0	0	20	1	(E)	EXISTING LOAD	12
13	EXISTING LOAD	(E)	1	20	0	0			0	20	1	(E)	EXISTING LOAD	14
15	RECEPT IDF S	(E)	1	20	0		0		0	20	1	-	SPARE	16
17	SPARE	-	1	20	0			0	0	20	1	-	SPARE	18
19		(5)	_		0	0			0	20	1	(E)	DAS IDF 5	20
21	CISCO SWITCH	(E)	2	20	0		0		0	20	1	(E)	DAS IDF 5	22
23		(-)			0			0	0	20	1	(E)	DAS IDF 5	24
25	CISCO SWITCH	(E)	2	20	0	0			0	20	1	(E)	DAS IDF 5	26
27					0		0		0	20	1	-	SPARE	28
29	EXISTING LOAD	(E)	3	60	0			0	0	20	1	-	SPARE	30
31					0	0			0	20	1	-	SPARE	32
	SPARE	-	1	20	0		0		0	20	1	-	SPARE	34
	SPARE	-	1	20	0			0	0	20	1	-	SPARE	36
	SPARE	-	1	20	0	0			0	20	2	(E)	EXISTING LOAD	38
39	SPARE	_	2	20	0		0		0		Ш			40
41	L				0		TOTALO	0	0	20	1	-	SPARE	42
	NOTES:						TOTALS							
						0	0	0					0.00 AMPO	
							0 VA						0.00 AMPS	

						•			1					
					P	ANEL	_ SCI	HEDU	JLE					
	RP-4A4 - EXISTING PANEL: CONDITIONS											M	IOUNTING: SURFACE	
	VOLTAGE: 208Y/120V	PHASE:		3			WIRE:	4	BUS	AMPS:	225/	4	MAIN:	
	NEMA 1	NEUTRAL:	10	0%	COF	PPER GR	OUND BU	IS - ISOLA	ATED GR	OUND		L	OCATION: ELEC ROOM FOR 'X'	
CIRCUIT	DESCRIPTION	WIRE	POLES	BKR SIZE	VA	A	/A / PHAS	G C	VA	BKR SIZE	POLES	WIRE	DESCRIPTION	CIRCUIT
1	RECEPTS OFFICE 75W001	(E)	1	20	0	0			0	20	1	(E)	RECEPTS RM 309	2
3	EXISTING LOAD	(E)	1	20	0		0		0	20	1	(E)	EBP	4
5	JANITOR CLOSET GEN RECEPT	(E)	1	20	0			0	0	20	1	(E)	MENS ROOM RECEPTS CORRIDOR	6
7	RECEPTS MR 307	(E)	1	20	0	0			0	20	1	(E)	LIGHTING MR 308	8
9	LIGHTING 75W001	(E)	1	20	0		0		0	20	1	(E)	LIGHTING MR 307	10
11	LIGHTING MR 307	(E)	1	20	0			0	0	20	1	(E)	EXISTING LOAD	12
13	EXISTING LOAD	(E)	1	20	0	0			0	20	1	(E)	BAS XFRMR IN HALLWAY	14
15	WALL CAMERA	(E)	1	20	0		0		0	1			UEATER RAGO	16
17		(5)		<u> </u>	0			0	0	20	2	-	HEATER RM 310	18
19	CISCO SWITCH	(E)	2	20	0	0			0	20	1	-	SPARE	20
21	CISCO SWITCH	/E)	_	20	0		0		0	20	1	-	SPARE	22
23	CISCO SWITCH	(E)	2	20	0			0	0	20	1	-	SPARE	24
25	CISCO SWITCH	(E)	2	20	0	0			0					26
27	CISCO SWITCH	(=)		20	0		0		0	100	3	(E)	EXISTING LOAD	28
29	CISCO SWITCH	(E)	2	20	0			0	0					30
31			_	<u> </u>	0	0			0	-	-	-	SPACE	32
33	SPACE	-	-	<u> </u>	0		0		0	<u> </u>	-	-	SPACE	34
$\vdash$	SPACE	-	-	-	0			0	0	<b>├</b> -	-	-	SPACE	36
-	SPACE	-	-	-	0	0			0	-	-	-	SPACE	38
_	SPACE	-	-	-	0		0	0	0	-	-	-	SPACE	40
41	SPACE	-	-	-	0		TOTALO	0	0	-	-	-	SPACE	42
	NOTES:						TOTALS	1	-					
						0	0 VA	0	-				0.00 AMPS	
						<u> </u>	UVA		<u> </u>				U.UU AIVIPS	

					P	ANEL	_ SCI	HEDU	JLE					
	RP-4A1 - PROPOSED PANEL: CONDITIONS											M	OUNTING: SURFACE	
	VOLTAGE: 208Y/120V	PHASE:	;	3			WIRE:	4	BUS	AMPS:	225	A	MAIN:	
	NEMA 1	NEUTRAL:	10	0%	COF	PPER GR	OUND BU	IS - ISOLA	ATED GR	OUND		L	OCATION: ELEC ROOM FOR 'Y'	
CIRCUIT	DESCRIPTION	WIRE	POLES	BKR SIZE	VA	V A	'A / PHAS B	E C	VA	BKR SIZE	POLES	WIRE	DESCRIPTION	H
	FIXTURES HALLWAY	(E)	1	20	0	0			0	20	1	(E)	EXISTING LOAD	1
3	LIGHTING MR 304	(E)	1	20	0		0		0	20	1	(E)	EXISTING LOAD	-
5	LIGHTING M5 305	(E)	1	20	0			0	0	20	1	(E)	EXISTING LOAD	+
7	EXISTING LOAD	(E)	1	20	0	0			0	20	1	(E)	EXISTING LOAD	1
9	EXISTING LOAD	(E)	1	20	0		0		0	20	1	(E)	EXISTING LOAD	1
11	EXISTING LOAD	(E)	1	20	0			0	0	20	1	(E)	EXISTING LOAD	1
13	EXISTING LOAD	(E)	1	20	0	0			0	20	1	(E)	EXISTING LOAD	1
15	RECEPT IDF S	(E)	1	20	0		0		0	20	1	-	SPARE	1
17	SPARE	-	1	20	0			0	0	20	1	-	SPARE	1
19		<b>/</b> E\			0	0			0	20	1	(E)	DAS IDF 5	2
21	CISCO SWITCH	(E)	2	20	0		0		0	20	1	(E)	DAS IDF 5	2
23		<b>/</b> E\		00	0			0	0	20	1	(E)	DAS IDF 5	2
25	CISCO SWITCH	(E)	2	20	0	0			0	20	1	(E)	DAS IDF 5	2
27					0		100		100	20	1	12	Y - MEN'S TOWEL DISPENSER	2
29	EXISTING LOAD	(E)	3	60	0			1500	1500	20	1	10	Y - MEN'S HAND DRYER	3
31					0	1500			1500	20	1	10	Y - MEN'S HAND DRYER	3
33	Y - WOMEN'S TOWEL DISPENSER	12	1	20	100		100		0	20	1	-	SPARE	3
35	Y - WOMEN'S HAND DRYER	10	1	20	1500			2000	500	20	1	12	Y - MEN'S SOAP POWER	3
37	Y - WOMEN'S HAND DRYER	10	1	20	1500	1500			0	20	2	(E)	EXISTING LOAD	3
39	SPARE	_	2	20	0		0	566	0					4
41					0		TOTALO	500	500	20	1	12	Y - WOMEN'S SOAP POWER	4
	NOTES:					0000	TOTALS							
	EC SHALL INSTALL A EQUIPMENT GRO EACH CIRCUIT IN ACCORDANCE WITH		DUC	TOR V	VITH	3000	200 7200 VA	4000					19.98 AMPS	

					P	ANEL	_ SCI	HEDI	JLE					
	RP-4A4 - PROPOSED PANEL: CONDITIONS											M	IOUNTING: SURFACE	
	VOLTAGE: 208Y/120V	PHASE:	;	3			WIRE:	4	BUS	AMPS:	225	4	MAIN:	
	NEMA 1	NEUTRAL:	10	0%	COF	PPER GR	OUND BL	JS - ISOL/	ATED GR	OUND		L	OCATION: ELEC ROOM FOR 'X'	
CIRCUIT	DESCRIPTION	WIRE	POLES	BKR SIZE	VA	V A	'A / PHAS	C C	VA	BKR SIZE	POLES	WIRE	DESCRIPTION	CIRCUIT
1	RECEPTS OFFICE 75W001	(E)	1	20	0	0			0	20	1	(E)	RECEPTS RM 309	2
3	EXISTING LOAD	(E)	1	20	0		0		0	20	1	(E)	EBP	4
5	JANITOR CLOSET GEN RECEPT	(E)	1	20	0			0	0	20	1	(E)	MENS ROOM RECEPTS CORRIDOR	6
7	RECEPTS MR 307	(E)	1	20	0	0			0	20	1	(E)	LIGHTING MR 308	8
9	LIGHTING 75W001	(E)	1	20	0		0		0	20	1	(E)	LIGHTING MR 307	10
11	LIGHTING MR 307	(E)	1	20	0			0	0	20	1	(E)	EXISTING LOAD	12
13	EXISTING LOAD	(E)	1	20	0	0			0	20	1	(E)	BAS XFRMR IN HALLWAY	14
15	WALL CAMERA	(E)	1	20	0		0		0	20			LIEATED DM 240	16
17	OLOGO OMITOLI	/E\		00	0			0	0	20	2	-	HEATER RM 310	18
19	CISCO SWITCH	(E)	2	20	0	0			0	20	1	-	SPARE	20
21	CISCO SWITCH	(E)	2	20	0		0		0	20	1	-	SPARE	22
23	CISCO SWITCH	(L)		20	0			0	0	20	1	-	SPARE	24
25	CISCO SWITCH	(E)	2	20	0	0			0					26
27		,			0		0		0	100	3	(E)	EXISTING LOAD	28
29 31	CISCO SWITCH	(E)	2	20	0	400		0	0	20	4	40	Y MENIO TOWEL DIODENICED	30
33	X - WOMEN'S TOWEL DISPENSER	12	1	20	0 <b>100</b>	100	1600		100 1500	20	1	12 12	X - MEN'S TOWEL DISPENSER  X - MEN'S HAND DRYER	32 34
35		12	1	20	1500		1000	3000	1500	20	1	12	X - MEN'S HAND DRYER	36
	X - WOMEN'S HAND DRYER	12	1	20	1500	1500		3300	0	-	-	-	SPACE	38
39	X - WOMEN'S SOAP POWER	12	1	20	500		1000		500	20	1	12	X - MEN'S SOAP POWER	40
41	SPACE	-	-	-	0			0	0	-	-	-	SPACE	42
	NOTES:						TOTALS							
	EC SHALL INSTALL A EQUIPMENT GROEACH CIRCUIT IN ACCORDANCE WITH		DUC	TOR V	VITH	1600	2600 7200 VA	3000					19.98 AMPS	

**MEP ENGINEERS:** 



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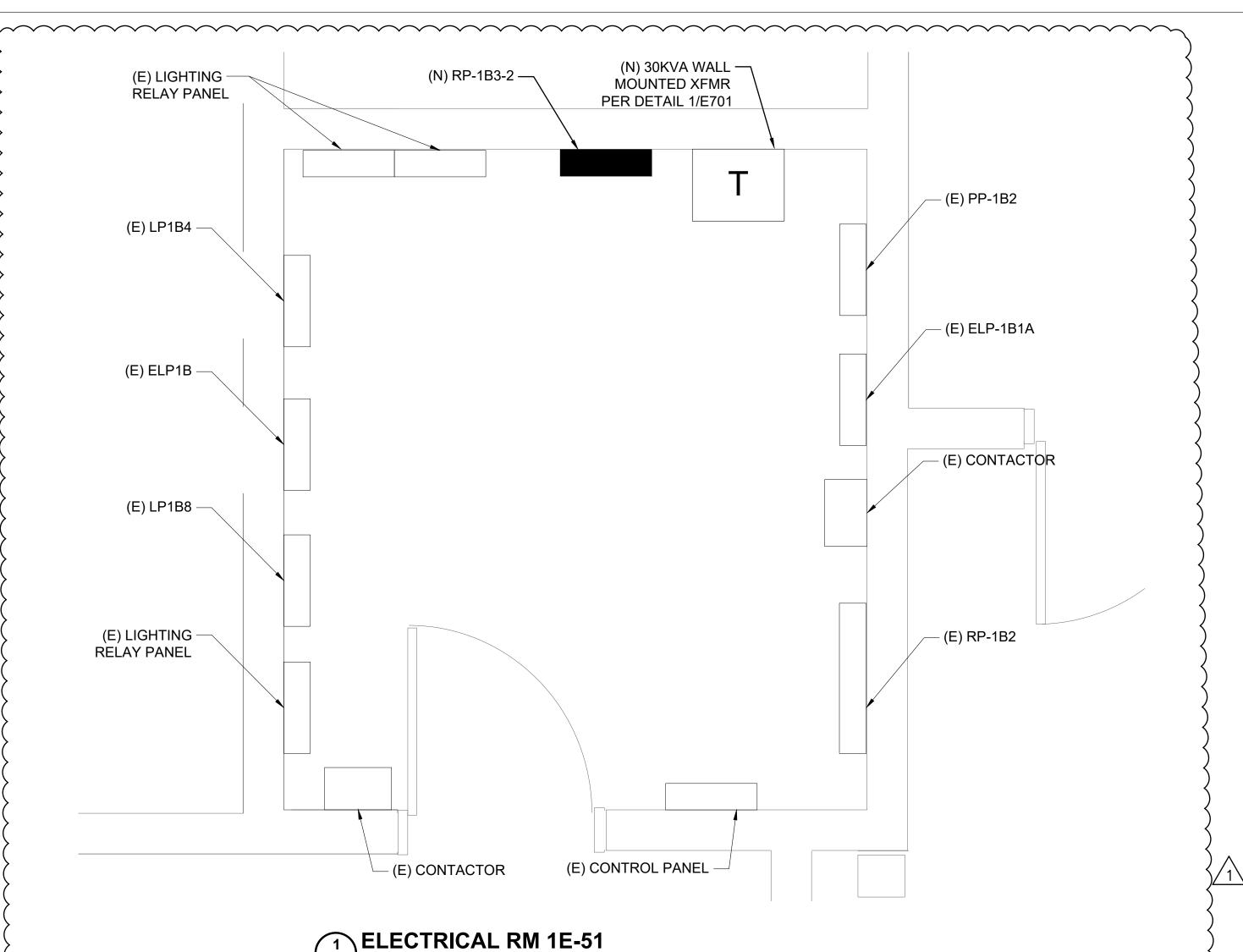


**REVISIONS:** No. Description Date

ELECTRICAL PANEL SCHEDULES -SHEET 10

CW1615 November 25, 2019 RR,AS

Checked by E810



	PANEL:	NEW RP-1B3-2 - PROPOSED CONDITIONS			INTE	RRUPTING	G RATING:	22	KAIC					MOUNTING: SURFACE	
	VOLTAGE:	208Y/120V	PHASE:		3			WIRE:	4	BUS	AMPS:	100	A	( MAIN: 80A MCB	
	NEMA	1	NEUTRAL:	10	00%	СО	PPER GR	OUND BU	S - ISOLA	TED GRO	DUND			LOCATION: ELEC ROOM FOR 'G&H'	
CIRCUIT	DE	SCRIPTION	WIRE	POLES	BKR SIZE	VA	A	/A / PHAS B	E C	VA	BKR SIZE	POLES	WIRE	DESCRIPTION	TII
_	G - WOMEN'S	TOWEL DISPENSER	12	1	20	200	400			200	20	1	12	H - MEN'S TOWEL DISPENSER	1
3	G - WOMEN'S	HAND DRYER	10	1	20	1500		3000		1500	20	1	12	H - MEN'S HAND DRYER	-
5	G - WOMEN'S	HAND DRYER	10	1	20	1500			3000	1500	20	1	12	H - MEN'S HAND DRYER	1
7	G - MEN'S TO	WEL DISPENSER	12	1	20	200	400			200	20	1	12	H - WOMEN'S TOWEL DISPENSER	1
9	G - MEN'S HA	ND DRYER	10	1	20	1500		3000		1500	20	1	12	H - WOMEN'S HAND DRYER	1
11	G - MEN'S HA	ND DRYER	10	1	20	1500			3000	1500	20	1	12	H - WOMEN'S HAND DRYER	1
13	G - ELECTRIC	WATER COOLER	12	1	20 (GFI)	600	1200			600	20 (GFI)	1	12	H - ELECTRIC WATER COOLER	1
15	G - WOMEN'S	SINK/ SOAP POWER	12	1	20	500		1000	(	500	20	1	12	G - MEN'S SINK/ SOAP POWER	1
17	SPACE		-	-	-	0			500	500^	20	4	<u> </u>	H-MEN'S SOAP POWER	4
19	SPACE		-	-	-	0	500			500	20	1	12	H - WOMEN'S SOAP POWER	2
21	SPACE		-	-	-	0		0		0	-	-	-	SPACE	2
23	SPACE		-	-	-	0			0	0	-	-	-	SPACE	2
25	SPACE		-	-	-	0	0			0	-	-	-	SPACE	2
27	SPACE		-	-	-	0		0		0	-	-	-	SPACE	2
29	SPACE		-	-	-	0			0	0	-	-	-	SPACE	3
31	SPACE		-	_	-	0	0			0	-	-	-	SPACE	3
33	SPACE		-	-	-	0		0		0	-	-	-	SPACE	3
35	SPACE		-	-	-	0			0	0	-	-	-	SPACE	3
37	SPACE		-	_	-	0	0			0	-	-	-	SPACE	3
39	SPACE		-	-	-	0		0		0	-	-	-	SPACE	4
	SPACE			_	_	0			0	0	_	- 1		SPACE	4

					PA	NEL	SCH	HEDL	JLE					
	PP-1B2 - EXISTING PANEL: CONDITIONS			INTE	RRUPTING	G RATING:		KAIC				М	OUNTING: SURFACE	
	VOLTAGE: 480Y/277V	PHASE:	;	3			WIRE:	4	BUS A	MPS:	225	٨	MAIN: MLO	
	NEMA 1	NEUTRAL:	10	0%	COP	PER GRO	OUND BU	S - ISOLA	TED GRO	DUNE	)	L	OCATION: ELEC ROOM FOR G&H	
CIRCUIT	DESCRIPTION	WIRE	POLES	BKR SIZE	VA		/A / PHAS	1	VA	BKR SIZE	POLES	WIRE	DESCRIPTION	CIRCUIT
ਹ			_	亩		Α	В	С		畜				ū
1	SPACE	-	-	-	0	0			0	-	-	-	SPACE	2
3	SPACE	ı	-	-	0		0		0	-	-	-	SPACE	4
5	SPARE	1	1	20	0			0	0	-	-	-	SPACE	6
7	SPARE	ı	1	20	0	0			0	20	1	-	SPARE	8
9	SPARE	-	1	20	0		0		0	20	1	-	SPARE	10
11	SPARE	ı	1	20	0			0	0	20	1	-	SPARE	12
13					0	0			0					14
15	FCU 4	(E)	3	20	0		0		0	20	3	(E)	EX FAN ELECT RM	16
17					0			0	0					18
19					0	0			0					20
21	SPARE	-	3	40	0		0		0	20	3	(E)	EX FAN PUMP RM	22
23					0			0	0					24
25					0	0			0				WATER LIEATER CONCESSION	26
27	CONCESSION GATE	(E)	3	20	0		0		0	30	3	(E)	WATER HEATER CONCESSION STAND	28
29					0			0	0				31711415	30
31					0	0			0					32
33	OH DOOR STORAGE RM	(E)	3	20	0		0		0	20	3	(E)	OH DOOR EXHIBIT HALL	34
35					0			0	0					36
37					0	0			0					38
39	OH DOOR RAMP TO EXHIBIT HALL	(E)	3	20	0		0		0	20	3	(E)	OVERHEAD DOOR RACK	40
41					0			0	0					42
	NOTES:						TOTALS							
						0	0	0	1					
							0 VA	•	1				0.00 AMPS	

E811 SCALE: 3/4" = 1'-0"

					PA	NEL	. SCH	IEDU	JLE					
	PP-1B2 - PROPOSED PANEL: CONDITIONS			INTEF	RRUPTING	RATING:		KAIC				М	DUNTING: SURFACE	
	VOLTAGE: 480Y/277V	PHASE:		3			WIRE:	4	BUS AI	MPS:	225	<u> </u>	MAIN: MLO	
	NEMA 1	NEUTRAL:	10	0%	COP	PER GRO	OUND BUS	S - ISOLA	TED GRO	UNE	)	L	OCATION: ELEC ROOM FOR G&H	
CIRCUIT	DESCRIPTION	WIRE	POLES	BKR SIZE	VA		/A / PHAS		VA	BKR SIZE	POLES	WIRE	DESCRIPTION	CIRCUIT
ਹ				à		A	В	С		à	<u> </u>			+
1	SPACE	-	-	-	0	2000			2000			(3) #6 CU		2
3	SPACE	-	-	-	0		7000		7000	45	3	& (1)	SUB-FEED TO XFMR FOR RP-1B3-2	4
5	SPARE	-	1	20	0			6000	6000			#10GND		6
7	SPARE	-	1	20	0	0			0	20	1	-	SPARE	8
9	SPARE	-	1	20	0		0		0	20	1	-	SPARE	10
11	SPARE	ı	1	20	0			0	0	20	1	ı	SPARE	12
13					0	0			0					14
15	FCU 4	(E)	3	20	0		0		0	20	3	(E)	EX FAN ELECT RM	16
17					0			0	0					18
19	<u>-</u>				0	0			0					20
21	SPARE	-	3	40	0		0		0	20	3	(E)	EX FAN PUMP RM	22
23					0			0	0					24
25	<b>-</b>	( <del>-</del> )			0	0			0			<b>(=</b> )	WATER HEATER CONCESSION	26
27	CONCESSION GATE	(E)	3	20	0		0	•	0	30	3	(E)	STAND	28
29					0	0		0	0					30
31	OH DOOR STORAGE RM	(E)	3	20	0	0	0		0	20	,	(E)	OH DOOR EXHIBIT HALL	32
35	-l	(L)	3	20	0		U	0	0	20	3	(L)	ON DOOK EXHIBIT HALL	36
37			$\vdash$		0	0		U	0					38
	OH DOOR RAMP TO EXHIBIT HALL	(E)	3	20	0		0		0	20	3	(E)	OVERHEAD DOOR RACK	40
41	-l	(-,	ਁ	¯	0			0	0	~~		( <del>-</del> )		42
	NOTES:						TOTALS							<u>-</u>
	110.120.					2000	7000	6000						
							15000 VA						18.04 AMPS	

: :::::::: CONVERSE WINKLER
ARCHITECTURE 331 MONTGOMERY AVE BALA CYNWYD, PA 19144

**MEP ENGINEERS:** 



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Contact: Wing Au e-mail: wau@csagroup.com



**REVISIONS:** No. Description Date 11/08/19 1 ELEC UPDATE

ELECTRICAL PANEL SCHEDULES -SHEET 11

CW1615 November 25, 2019 RR,AS Drawn by Checked by

E811

					PA	NEL	SCH	EDU	LE					
	NEW RP-3A4-2 - PROPOSED PANEL: CONDITIONS			INTE	RRUPTING	G RATING:	22	KAIC					MOUNTING: SURFACE	
	VOLTAGE: 208Y/120V	PHASE:		3			WIRE:	4	BUS /	AMPS:	125/	Α	MAIN: 125A MCB	
	NEMA 1	NEUTRAL:	10	00%	СО	PPER GR	OUND BU	S - ISOLA	TED GRO	UND			LOCATION: ELEC ROOM FOR 'J&K'	
CIRCUIT	DESCRIPTION	WIRE	POLES	BKR SIZE	VA	A	/A / PHAS B	Е	VA	BKR SIZE	POLES	WIRE	DESCRIPTION	CIRCUIT
1	K - WOMEN'S TOWEL DISPENSER	12	1	20	500	1100			600	20	1	12	J - MEN'S TOWEL DISPENSER	2
3	K - WOMEN'S HAND DRYER	8	1	20	1500		3000		1500	20	1	12	J - MEN'S HAND DRYER	4
5	K - WOMEN'S HAND DRYER	8	1	20	1500			3000	1500	20	1	12	J - MEN'S HAND DRYER	6
7	K - WOMEN'S HAND DRYER	8	1	20	1500	3000			1500	20	1	12	J - MEN'S HAND DRYER	8
9	K - WOMEN ELEC WATER COOLER	12	1	20 (GFI)	600		2100		1500	20	1	12	J - MEN'S HAND DRYER	10
11	K - MEN'S TOWEL DISPENSER	12	1	20	500			2000	1500	20	1	12	J - MEN'S HAND DRYER	12
13	K - MEN'S HAND DRYER	8	1	20	1500	2100			600	20 (GFI)	1	12	J - MEN ELEC WATER COOLER	14
15	K - MEN'S HAND DRYER	8	1	20	1500		2100		600	20	1	12	J - WOMEN'S TOWEL DISPENSER	16
17	K - MEN'S HAND DRYER	8	1	20	1500			3000	1500	20	1	12	J - WOMEN'S HAND DRYER	18
19	K - MEN ELEC WATER COOLER	12	1	20 (GFI)	600	2100			1500	20	1	12	J - WOMEN'S HAND DRYER	20
21	K - GFI RECEPTS	12	1	20	360		1860		1500	20	1	12	J - WOMEN'S HAND DRYER	22
23	K - MEN'S SOAP POWER	12	1	20	500			2000	1500	20	1	12	J - WOMEN'S HAND DRYER	24
25	K - WOMEN'S SOAP POWER	12	1	20	500	2000			1500	20	1	12	J - WOMEN'S HAND DRYER	26
27	SPACE	1	-	-	0		600		600	20 (GFI)	1	12	J - WOMEN ELEC WATER COOLER	28
29	SPACE	-	-	-	0			500	500	20	1	12	J - MEN'S SOAP POWER	30
31	SPACE	-		-	0	500			500	20	1	12	J - WOMEN'S SOAP POWER	32
33	SPACE	-	_	-	0		0		0	-	_	-	SPACE	34
35	SPACE	-	-	-	0			0	0	-	-	-	SPACE	36
37	SPACE	-	-	-	0	0			0	-	<u> </u>	-	SPACE	38
39	SPACE	-	-	-	0		0		0	-	<u> </u>	-	SPACE	40
41	SPACE	-	-	-	0			0	0	-	-	-	SPACE	42
	NOTES:						TOTALS							
	EC SHALL INSTALL A EQUIPMENT GROUP CIRCUIT IN ACCORDANCE WITH NEC 250		UCTO	OR WIT	H EACH	10800	9660 30960 VA	10500					85.93 AMPS	

MEP ENGINEERS:



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REVISIONS:

No. Description Date

RESTROOM RENOVATIONS

PENNSYLVANIA CONVENTION CENTER

> ELECTRICAL PANEL SCHEDULES -SHEET 12

Project number CW1615

Date November 25, 2019

Drawn by RR,AS

Checked by JV

E812