

PARTIAL GROUND FLOOR DEMO AREA A- ELECTRICAL
1/8" = 1'-0"

ELECTRICAL DEMOLITION NOTES:

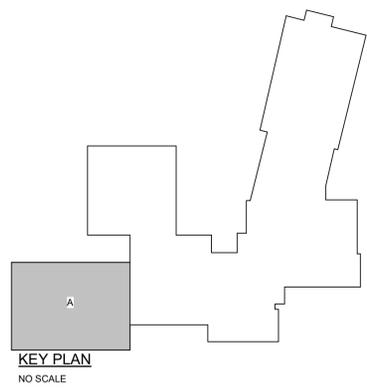
- ELECTRICAL CONTRACTOR IS TO VERIFY ALL EXISTING CONDITIONS IN FIELD PRIOR ANY WORK. ALL DEMOLISHED EQUIPMENT AND DEVICES ARE TO BE REMOVED FROM THE SITE BY THE ELECTRICAL CONTRACTOR.
- REMOVE BRANCH CIRCUIT WIRING METHODS TO POINT OF ORIGIN (OR TO ITS NEAREST ACTIVE DEVICE). RESTORE ALL CIRCUITS INTERRUPTED BY DEMOLITION WORK TO MAINTAIN CIRCUIT CONTINUITY.
- ALL OVERCURRENT PROTECTION DEVICES THAT BECOME "SPARE" AS A RESULT OF DEMOLITION WORK ARE TO BE LABELED SET IN THE "OFF" POSITION AND LABELED "SPARE".
- ALL PANELBOARDS IMPACTED BY RENOVATION WORK ARE TO BE PROVIDED WITH UPDATED DIRECTORIES.
- FIRE ALARM DEVICES ARE TO REMAIN OPERATIONAL AND ARE TO BE PROPERLY PROTECTED DURING CONSTRUCTION. REINSTALL EXISTING DEVICES IN NEW CEILING.
- ALL POWER SHUTDOWNS ARE TO BE SCHEDULED AND COORDINATED WITH OWNER.
- THE INTENT IS FOR ALL ADJACENT AREAS TO REMAIN ENERGIZED DURING CONSTRUCTION. THE CONTRACTOR IS TO MODIFY ALL EXISTING WIRING METHODS TO FACILITATE THIS INTENT.
- THE INTENT IS TO REMOVE ALL ELECTRICAL WIRING DEVICES WHICH INTERFERE WITH NEW CONSTRUCTION WORK, OR DEMOLITION WORK WHETHER SPECIFICALLY IDENTIFIED OR NOT.

ELECTRICAL DEMOLITION KEYNOTES:

- DE1 EXISTING DISTRIBUTION AND/ OR BRANCH CIRCUIT PANELBOARD EQUIPMENT IS TO REMAIN.
- DE2 UNLESS OTHERWISE NOTED, ALL LUMINAIRES AND CONTROLS IN THIS AREA ARE TO BE REMOVED. EXISTING BRANCH CIRCUIT WIRING METHODS ARE TO BE REUSED TO SERVE NEW LUMINAIRES AND CONTROLS AS REQUIRED.
- DE3 UNLESS OTHERWISE NOTED, ALL CEILING-MOUNTED RECEPTACLE AND LOW VOLTAGE OUTLET DEVICES, AND CLOCK(S) SPEAKER(S) IN THIS AREA ARE TO BE REMOVED. EXISTING BRANCH CIRCUIT WIRING METHODS ARE TO BE REUSED TO SERVE NEW LUMINAIRES IN NEW CEILING GRID. EXTEND ALL WIRING METHODS AS REQUIRED TO SERVE NEW LUMINAIRES AND CONTROLS AS REQUIRED.
- DE4 UNLESS OTHERWISE NOTED, ALL WALL-MOUNTED RECEPTACLE AND LOW VOLTAGE OUTLET DEVICES IN THIS AREA ARE TO BE REMAIN.
- DE5 UNLESS OTHERWISE NOTED, ALL SURFACE-MOUNTED RACEWAY IN THIS AREA IS TO BE REMOVED AND ALL WIRING METHODS REMOVED TO POINT OF ORIGIN.
- DE6 EXISTING UNIT HEATER EQUIPMENT IS TO REMAIN AND ALL WIRING METHODS REUSED. ELECTRICAL CONTRACTOR IS TO DE-ENERGIZE AND DISCONNECT BRANCH CIRCUIT WIRING METHODS AT THE UNIT. EXISTING BRANCH CIRCUIT WIRING IS TO BE MADE SAFE FOR RECONNECTION OF EQUIPMENT IN NEW CEILING.
- DE7 THE ELECTRICAL CONTRACTOR IS TO REMOVE ALL WIRING METHODS ASSOCIATED WITH DEMOLISHED EXHAUST FAN EQUIPMENT TO POINT OF ORIGIN.
- DE8 THE ELECTRICAL CONTRACTOR IS TO REMOVE ALL DISCONNECTING MEANS AND WIRING METHODS ASSOCIATED WITH DEMOLISHED HVAC EQUIPMENT TO POINT OF ORIGIN.
- DE9 THE ELECTRICAL CONTRACTOR IS TO REMOVE ALL SERVICE DISCONNECTING MEANS AND ASSOCIATED WIRING METHODS TO POINT OF ORIGIN.

NOTICE
THE SCHEDULES AND DRAWINGS REPRESENT ONLY CERTAIN REQUIREMENTS OF THE PROJECT. THERE ARE ADDITIONAL REQUIREMENTS IN THE SPECIFICATIONS BOOKLET WHICH THE CONTRACTOR IS BOUND TO PROVIDE. A SUPPLIER OR CONTRACTOR'S PRICING, WHICH IS BASED ONLY ON DRAWINGS OR SCHEDULES, MAY LEAVE IMPORTANT COSTS UNACCOUNTED FOR WHICH WILL ULTIMATELY BE THE CONTRACTOR OR SUPPLIER'S RESPONSIBILITY TO PROVIDE.

THE DELIVERY OF THIS DRAWING SHOULD NOT BE CONSTRUED TO PROVIDE AN EXPRESS WARRANTY OR GUARANTEE TO ANYONE THAT ALL THE DIMENSIONS AND DETAILS ARE EXACT OR TO INDICATE THAT THE USE OF THIS DRAWING IMPLIES THE REVIEW AND APPROVAL BY THE DESIGN PROFESSIONAL OF ANY FUTURE USE. ANY USE OF THIS INFORMATION WITHOUT THE WRITTEN APPROVAL OF THE DESIGN PROFESSIONAL IS AT THE SOLE RISK AND LIABILITY OF THE USER. THE DESIGN PROFESSIONAL RESERVES THE RIGHT TO REMOVE OUR PROFESSIONAL SEAL AND/OR TITLE BLOCK.



CHESTER UPLAND S.D.
TOBY FARMS INTERMEDIATE SCHOOL, HVAC and WINDOW UPGRADES
201 BRIDGEWATER ROAD
BROOKHAVEN, PA 19015
PARTIAL GROUND FLOOR DEMO AREA A- ELECTRICAL

PROJECT NO: 2022-327
DRAWN BY: MG, DD
DATE: 03/15/2023
SCALE: AS NOTED



100% Bid Set - 15 March 2023

Rev. No.	Date	Description
1	10/28/22	SCHEMATIC DESIGN ISSUE
2		
3		
4		
5		
6		
7		
8		
9		
10		

Plans, specifications, reports, documents, or other information received on or transmitted as part of this project, including but not limited to, among other things, transmission, conversion, alteration, or other intentional or unintentional, due to any cause, including but not limited to, human error, computer virus, or other electronic or mechanical failure, or any other cause, shall be the property of the design professional and shall remain confidential. No part of this information shall be disseminated, reproduced, copied, stored, or transmitted in any form or by any means, electronic or mechanical, including photocopying, recording, or by any information storage and retrieval system, without the prior written permission of the design professional. All drawings, specifications, and related documents are the property of the architect and shall be returned to the architect upon completion of the project. Specifications and related documents shall be returned to the architect upon completion of the project. Do not scale drawings.

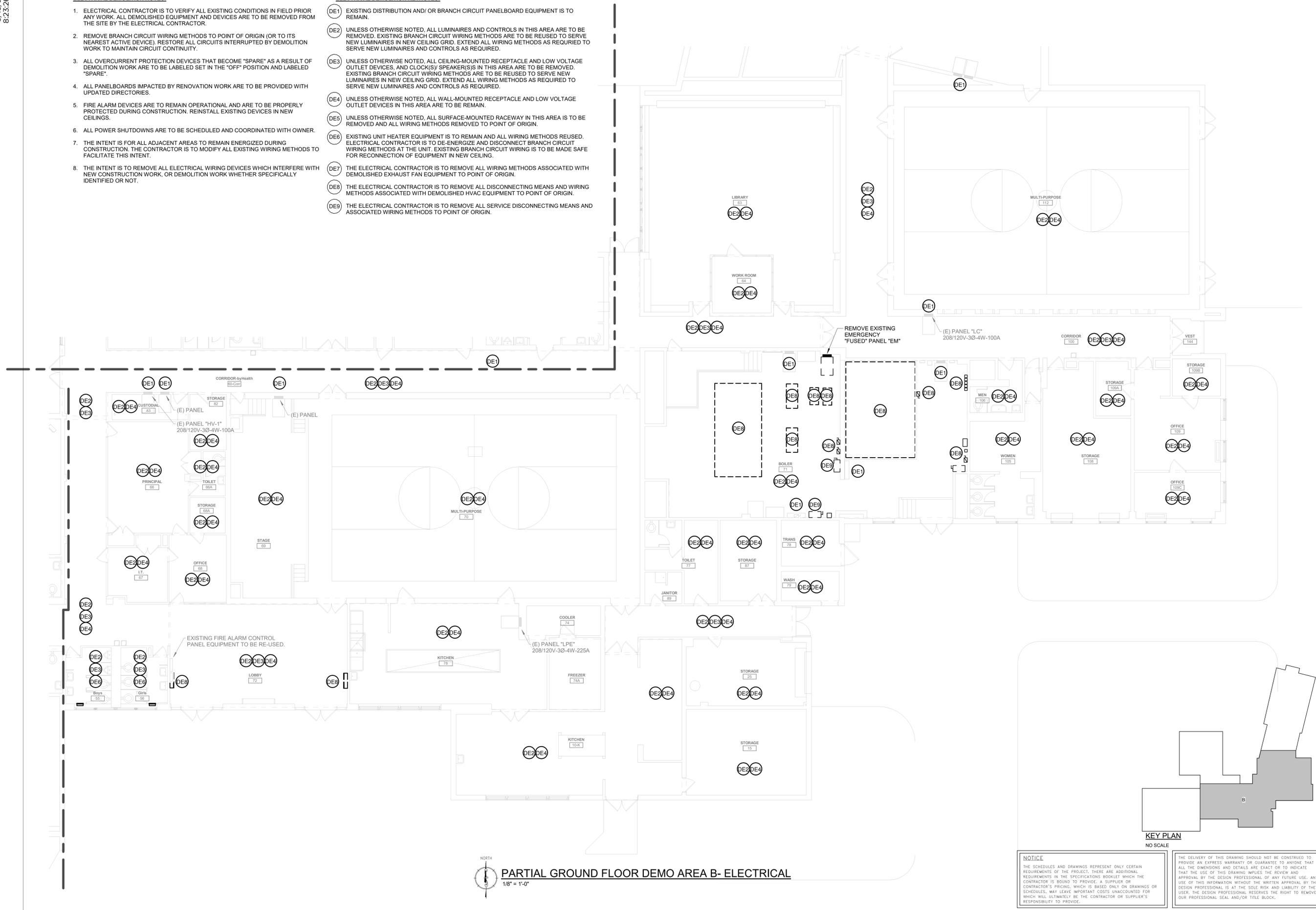
ED101a

ELECTRICAL DEMOLITION NOTES:

- ELECTRICAL CONTRACTOR IS TO VERIFY ALL EXISTING CONDITIONS IN FIELD PRIOR ANY WORK. ALL DEMOLISHED EQUIPMENT AND DEVICES ARE TO BE REMOVED FROM THE SITE BY THE ELECTRICAL CONTRACTOR.
- REMOVE BRANCH CIRCUIT WIRING METHODS TO POINT OF ORIGIN (OR TO ITS NEAREST ACTIVE DEVICE). RESTORE ALL CIRCUITS INTERRUPTED BY DEMOLITION WORK TO MAINTAIN CIRCUIT CONTINUITY.
- ALL OVERCURRENT PROTECTION DEVICES THAT BECOME "SPARE" AS A RESULT OF DEMOLITION WORK ARE TO BE LABELED SET IN THE "OFF" POSITION AND LABELED "SPARE".
- ALL PANELBOARDS IMPACTED BY RENOVATION WORK ARE TO BE PROVIDED WITH UPDATED DIRECTORIES.
- FIRE ALARM DEVICES ARE TO REMAIN OPERATIONAL AND ARE TO BE PROPERLY PROTECTED DURING CONSTRUCTION. REINSTALL EXISTING DEVICES IN NEW CEILINGS.
- ALL POWER SHUTDOWNS ARE TO BE SCHEDULED AND COORDINATED WITH OWNER.
- THE INTENT IS FOR ALL ADJACENT AREAS TO REMAIN ENERGIZED DURING CONSTRUCTION. THE CONTRACTOR IS TO MODIFY ALL EXISTING WIRING METHODS TO FACILITATE THIS INTENT.
- THE INTENT IS TO REMOVE ALL ELECTRICAL WIRING DEVICES WHICH INTERFERE WITH NEW CONSTRUCTION WORK, OR DEMOLITION WORK WHETHER SPECIFICALLY IDENTIFIED OR NOT.

ELECTRICAL DEMOLITION KEYNOTES:

- DE1 EXISTING DISTRIBUTION AND/ OR BRANCH CIRCUIT PANELBOARD EQUIPMENT IS TO REMAIN.
- DE2 UNLESS OTHERWISE NOTED, ALL LUMINAIRES AND CONTROLS IN THIS AREA ARE TO BE REMOVED. EXISTING BRANCH CIRCUIT WIRING METHODS ARE TO BE REUSED TO SERVE NEW LUMINAIRES IN NEW CEILING GRID. EXTEND ALL WIRING METHODS AS REQUIRED TO SERVE NEW LUMINAIRES AND CONTROLS AS REQUIRED.
- DE3 UNLESS OTHERWISE NOTED, ALL CEILING-MOUNTED RECEPTACLE AND LOW VOLTAGE OUTLET DEVICES, AND CLOCK(S) SPEAKER(S) IN THIS AREA ARE TO BE REMOVED. EXISTING BRANCH CIRCUIT WIRING METHODS ARE TO BE REUSED TO SERVE NEW LUMINAIRES IN NEW CEILING GRID. EXTEND ALL WIRING METHODS AS REQUIRED TO SERVE NEW LUMINAIRES AND CONTROLS AS REQUIRED.
- DE4 UNLESS OTHERWISE NOTED, ALL WALL-MOUNTED RECEPTACLE AND LOW VOLTAGE OUTLET DEVICES IN THIS AREA ARE TO BE REMAIN.
- DE5 UNLESS OTHERWISE NOTED, ALL SURFACE-MOUNTED RACEWAY IN THIS AREA IS TO BE REMOVED AND ALL WIRING METHODS REMOVED TO POINT OF ORIGIN.
- DE6 EXISTING UNIT HEATER EQUIPMENT IS TO REMAIN AND ALL WIRING METHODS REUSED. ELECTRICAL CONTRACTOR IS TO DE-ENERGIZE AND DISCONNECT BRANCH CIRCUIT WIRING METHODS AT THE UNIT. EXISTING BRANCH CIRCUIT WIRING IS TO BE MADE SAFE FOR RECONNECTION OF EQUIPMENT IN NEW CEILING.
- DE7 THE ELECTRICAL CONTRACTOR IS TO REMOVE ALL WIRING METHODS ASSOCIATED WITH DEMOLISHED EXHAUST FAN EQUIPMENT TO POINT OF ORIGIN.
- DE8 THE ELECTRICAL CONTRACTOR IS TO REMOVE ALL DISCONNECTING MEANS AND WIRING METHODS ASSOCIATED WITH DEMOLISHED HVAC EQUIPMENT TO POINT OF ORIGIN.
- DE9 THE ELECTRICAL CONTRACTOR IS TO REMOVE ALL SERVICE DISCONNECTING MEANS AND ASSOCIATED WIRING METHODS TO POINT OF ORIGIN.



NOTICE
THE SCHEDULES AND DRAWINGS REPRESENT ONLY CERTAIN REQUIREMENTS OF THE PROJECT. THERE ARE ADDITIONAL REQUIREMENTS IN THE SPECIFICATIONS BOOKLET WHICH THE CONTRACTOR IS BOUND TO PROVIDE. A SUPPLIER OR CONTRACTOR'S PRICING, WHICH IS BASED ONLY ON DRAWINGS OR SCHEDULES, MAY LEAVE IMPORTANT COSTS UNACCOUNTED FOR WHICH WILL ULTIMATELY BE THE CONTRACTOR OR SUPPLIER'S RESPONSIBILITY TO PROVIDE.

THE DELIVERY OF THIS DRAWING SHOULD NOT BE CONSTRUED TO PROVIDE AN EXPRESS WARRANTY OR GUARANTEE TO ANYONE THAT ALL THE DIMENSIONS AND DETAILS ARE EXACT OR TO INDICATE THAT THE USE OF THIS DRAWING IMPLIES THE REVIEW AND APPROVAL BY THE DESIGN PROFESSIONAL OF ANY FUTURE USE. ANY USE OF THIS INFORMATION WITHOUT THE WRITTEN APPROVAL OF THE DESIGN PROFESSIONAL IS AT THE SOLE RISK AND LIABILITY OF THE USER. THE DESIGN PROFESSIONAL RESERVES THE RIGHT TO REMOVE OUR PROFESSIONAL SEAL AND/OR TITLE BLOCK.



CHESTER UPLAND S.D.
TOBY FARMS INTERMEDIATE SCHOOL, HVAC and WINDOW UPGRADES
201 BRIDGEWATER ROAD
BROOKHAVEN, PA 19015
PARTIAL GROUND FLOOR DEMO AREA B- ELECTRICAL

PROJECT NO.: 2022-327
DRAWN BY: RG, DD
DATE: 03/15/2023
SCALE: AS NOTED

Rev. No.	Date	Description
1	10/26/22	SCHEMATIC DESIGN ISSUE
2		
3		
4		
5		
6		
7		
8		
9		
10		

ED101b

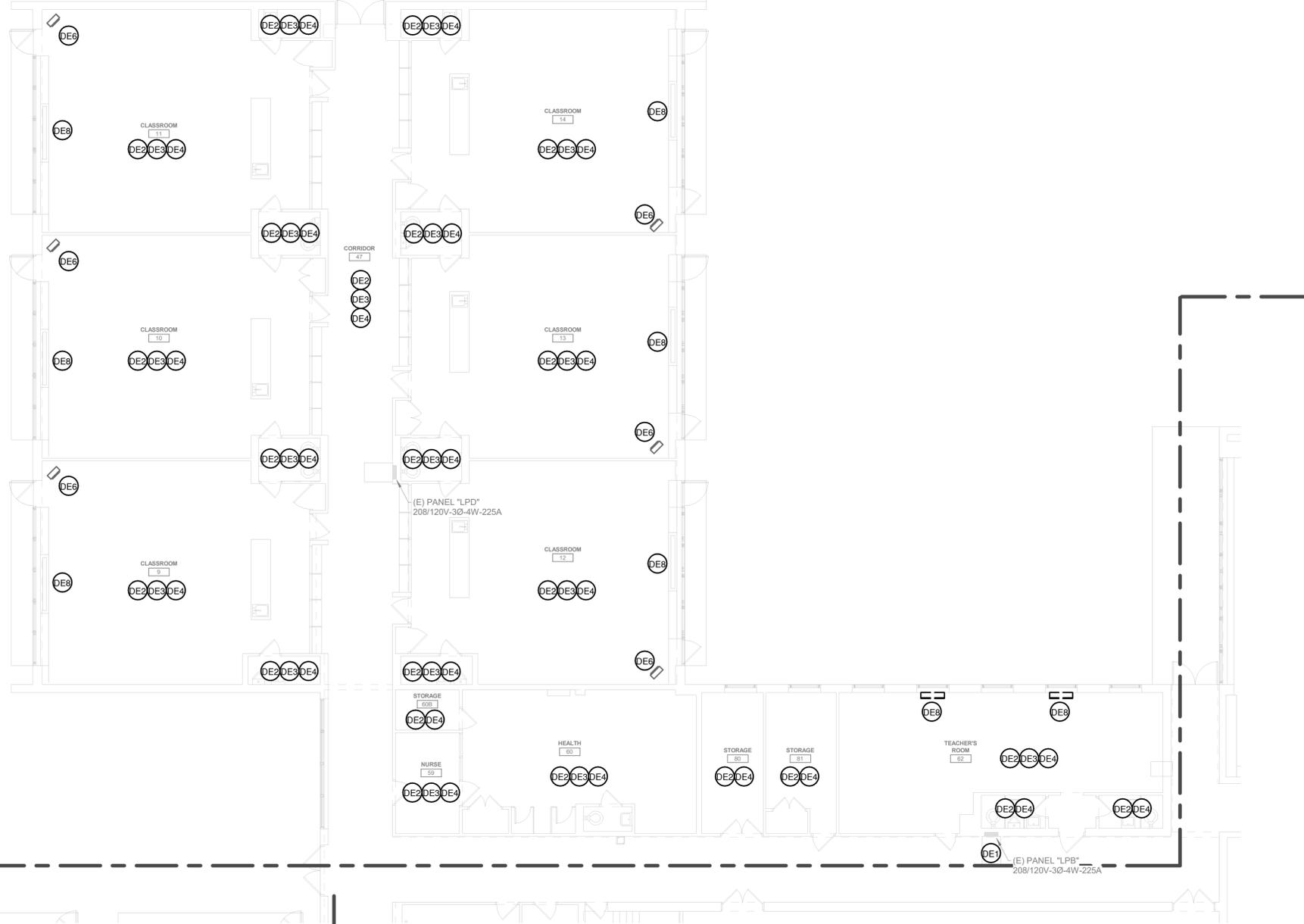
100% Bid Set - 15 March 2023

ELECTRICAL DEMOLITION NOTES:

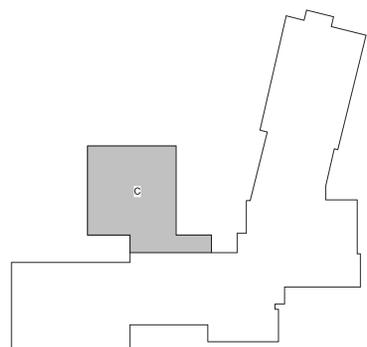
1. ELECTRICAL CONTRACTOR IS TO VERIFY ALL EXISTING CONDITIONS IN FIELD PRIOR ANY WORK. ALL DEMOLISHED EQUIPMENT AND DEVICES ARE TO BE REMOVED FROM THE SITE BY THE ELECTRICAL CONTRACTOR.
2. REMOVE BRANCH CIRCUIT WIRING METHODS TO POINT OF ORIGIN (OR TO ITS NEAREST ACTIVE DEVICE). RESTORE ALL CIRCUITS INTERRUPTED BY DEMOLITION WORK TO MAINTAIN CIRCUIT CONTINUITY.
3. ALL OVERCURRENT PROTECTION DEVICES THAT BECOME "SPARE" AS A RESULT OF DEMOLITION WORK ARE TO BE LABELED SET IN THE "OFF" POSITION AND LABELED "SPARE".
4. ALL PANELBOARDS IMPACTED BY RENOVATION WORK ARE TO BE PROVIDED WITH UPDATED DIRECTORIES.
5. FIRE ALARM DEVICES ARE TO REMAIN OPERATIONAL AND ARE TO BE PROPERLY PROTECTED DURING CONSTRUCTION. REINSTALL EXISTING DEVICES IN NEW CEILINGS.
6. ALL POWER SHUTDOWNS ARE TO BE SCHEDULED AND COORDINATED WITH OWNER.
7. THE INTENT IS FOR ALL ADJACENT AREAS TO REMAIN ENERGIZED DURING CONSTRUCTION. THE CONTRACTOR IS TO MODIFY ALL EXISTING WIRING METHODS TO FACILITATE THIS INTENT.
8. THE INTENT IS TO REMOVE ALL ELECTRICAL WIRING DEVICES WHICH INTERFERE WITH NEW CONSTRUCTION WORK, OR DEMOLITION WORK WHETHER SPECIFICALLY IDENTIFIED OR NOT.

ELECTRICAL DEMOLITION KEYNOTES:

- DE1 EXISTING DISTRIBUTION AND/ OR BRANCH CIRCUIT PANELBOARD EQUIPMENT IS TO REMAIN.
- DE2 UNLESS OTHERWISE NOTED, ALL LUMINAIRES AND CONTROLS IN THIS AREA ARE TO BE REMOVED. EXISTING BRANCH CIRCUIT WIRING METHODS ARE TO BE REUSED TO SERVE NEW LUMINAIRES IN NEW CEILING GRID. EXTEND ALL WIRING METHODS AS REQUIRED TO SERVE NEW LUMINAIRES AND CONTROLS AS REQUIRED.
- DE3 UNLESS OTHERWISE NOTED, ALL CEILING-MOUNTED RECEPTACLE AND LOW VOLTAGE OUTLET DEVICES, AND CLOCK(S)/ SPEAKER(S) IN THIS AREA ARE TO BE REMOVED. EXISTING BRANCH CIRCUIT WIRING METHODS ARE TO BE REUSED TO SERVE NEW LUMINAIRES IN NEW CEILING GRID. EXTEND ALL WIRING METHODS AS REQUIRED TO SERVE NEW LUMINAIRES AND CONTROLS AS REQUIRED.
- DE4 UNLESS OTHERWISE NOTED, ALL WALL-MOUNTED RECEPTACLE AND LOW VOLTAGE OUTLET DEVICES IN THIS AREA ARE TO BE REMAIN.
- DE5 UNLESS OTHERWISE NOTED, ALL SURFACE-MOUNTED RACEWAY IN THIS AREA IS TO BE REMOVED AND ALL WIRING METHODS REMOVED TO POINT OF ORIGIN.
- DE6 EXISTING UNIT HEATER EQUIPMENT IS TO REMAIN AND ALL WIRING METHODS REUSED. ELECTRICAL CONTRACTOR IS TO DE-ENERGIZE AND DISCONNECT BRANCH CIRCUIT WIRING METHODS AT THE UNIT. EXISTING BRANCH CIRCUIT WIRING IS TO BE MADE SAFE FOR RECONNECTION OF EQUIPMENT IN NEW CEILING.
- DE7 THE ELECTRICAL CONTRACTOR IS TO REMOVE ALL WIRING METHODS ASSOCIATED WITH DEMOLISHED EXHAUST FAN EQUIPMENT TO POINT OF ORIGIN.
- DE8 THE ELECTRICAL CONTRACTOR IS TO REMOVE ALL DISCONNECTING MEANS AND WIRING METHODS ASSOCIATED WITH DEMOLISHED HVAC EQUIPMENT TO POINT OF ORIGIN.
- DE9 THE ELECTRICAL CONTRACTOR IS TO REMOVE ALL SERVICE DISCONNECTING MEANS AND ASSOCIATED WIRING METHODS TO POINT OF ORIGIN.



PARTIAL GROUND FLOOR DEMO AREA C- ELECTRICAL
1/8" = 1'-0"



KEY PLAN
NO SCALE

NOTICE

THE SCHEDULES AND DRAWINGS REPRESENT ONLY CERTAIN REQUIREMENTS OF THE PROJECT. THERE ARE ADDITIONAL REQUIREMENTS IN THE SPECIFICATIONS BOOKLET WHICH THE CONTRACTOR IS BOUND TO PROVIDE. A SUPPLIER OR CONTRACTOR'S PRICING, WHICH IS BASED ONLY ON DRAWINGS OR SCHEDULES, MAY LEAVE IMPORTANT COSTS UNACCOUNTED FOR WHICH WILL ULTIMATELY BE THE CONTRACTOR OR SUPPLIER'S RESPONSIBILITY TO PROVIDE.

THE DELIVERY OF THIS DRAWING SHOULD NOT BE CONSTRUED TO PROVIDE AN EXPRESS WARRANTY OR GUARANTEE TO ANYONE THAT ALL THE DIMENSIONS AND DETAILS ARE EXACT OR TO INDICATE THAT THE USE OF THIS DRAWING IMPLIES THE REVIEW AND APPROVAL BY THE DESIGN PROFESSIONAL OF ANY FUTURE USE. ANY USE OF THIS INFORMATION WITHOUT THE WRITTEN APPROVAL OF THE DESIGN PROFESSIONAL IS AT THE SOLE RISK AND LIABILITY OF THE USER. THE DESIGN PROFESSIONAL RESERVES THE RIGHT TO REMOVE OUR PROFESSIONAL SEAL AND/OR TITLE BLOCK.

CHESTER UPLAND S.D.
TOBY FARMS INTERMEDIATE SCHOOL, HVAC and WINDOW UPGRADES
201 BRIDGEWATER ROAD
BROOKHAVEN, PA 19015
PARTIAL GROUND FLOOR DEMO AREA C- ELECTRICAL

ED101c

PROJECT NO: 2022-327
DRAWN BY: HIG, DD
DATE: 03/15/2023
SCALE: AS NOTED



135 Poplar Street, Ambler, PA 19002
1950 Route 100, Brookhaven, PA 19008
www.mchugheng.com
215.641.1188

100% Bid Set - 15 March 2023

Rev. No.	Date	Description
1	10/26/22	SCHEMATIC DESIGN ISSUE
2		
3		
4		
5		
6		
7		
8		
9		

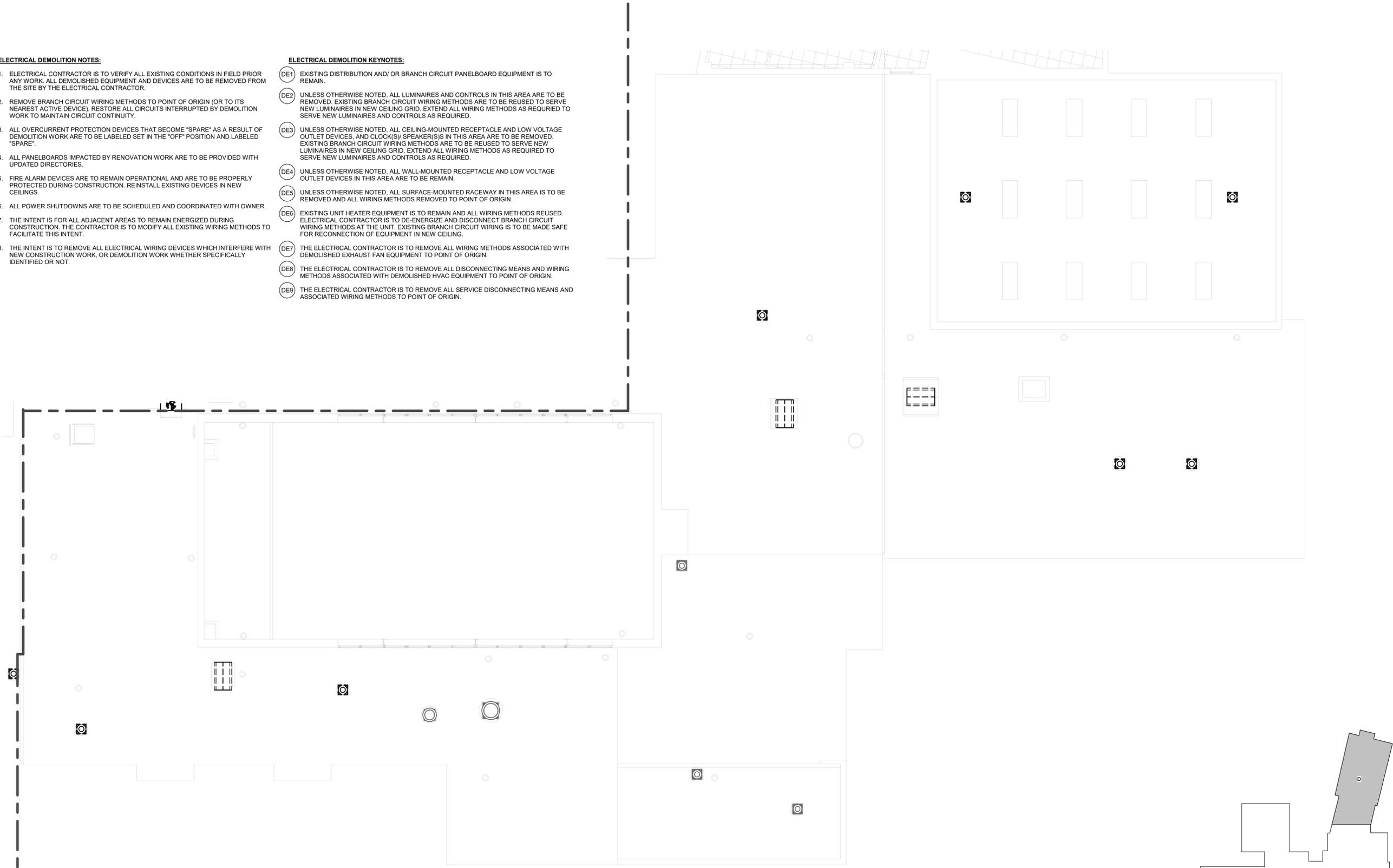
Plans, specifications, reports, documents, or other information received on or transmitted as part of this project, in whole or in part, are the property of the design professional. They are to be used only for the project and site identified herein. They are not to be reproduced, stored in a retrieval system, or transmitted in any form or by any means, electronic, mechanical, photocopying, recording, or by any information storage and retrieval system, without the prior written permission of the design professional. The design professional shall not be held responsible for any errors or omissions in this document. All drawings, specifications, and related documents are the property of the architect and must be kept confidential. The design professional shall not be held responsible for any errors or omissions in this document. Do not scale drawings.

ELECTRICAL DEMOLITION NOTES:

- ELECTRICAL CONTRACTOR IS TO VERIFY ALL EXISTING CONDITIONS IN FIELD PRIOR ANY WORK. ALL DEMOLISHED EQUIPMENT AND DEVICES ARE TO BE REMOVED FROM THE SITE BY THE ELECTRICAL CONTRACTOR.
- REMOVE BRANCH CIRCUIT WIRING METHODS TO POINT OF ORIGIN (OR TO ITS NEAREST ACTIVE DEVICE). RESTORE ALL CIRCUITS INTERRUPTED BY DEMOLITION WORK TO MAINTAIN CIRCUIT CONTINUITY.
- ALL OVERCURRENT PROTECTION DEVICES THAT BECOME "SPARE" AS A RESULT OF DEMOLITION WORK ARE TO BE LABELED SET IN THE "OFF" POSITION AND LABELED "SPARE".
- ALL PANELBOARDS IMPACTED BY RENOVATION WORK ARE TO BE PROVIDED WITH UPDATED DIRECTORIES.
- FIRE ALARM DEVICES ARE TO REMAIN OPERATIONAL AND ARE TO BE PROPERLY PROTECTED DURING CONSTRUCTION. REINSTALL EXISTING DEVICES IN NEW CEILINGS.
- ALL POWER SHUTDOWNS ARE TO BE SCHEDULED AND COORDINATED WITH OWNER.
- THE INTENT IS FOR ALL ADJACENT AREAS TO REMAIN ENERGIZED DURING CONSTRUCTION. THE CONTRACTOR IS TO MODIFY ALL EXISTING WIRING METHODS TO FACILITATE THIS INTENT.
- THE INTENT IS TO REMOVE ALL ELECTRICAL WIRING DEVICES WHICH INTERFERE WITH NEW CONSTRUCTION WORK, OR DEMOLITION WORK WHETHER SPECIFICALLY IDENTIFIED OR NOT.

ELECTRICAL DEMOLITION KEYNOTES:

- DE1 EXISTING DISTRIBUTION AND/OR BRANCH CIRCUIT PANELBOARD EQUIPMENT IS TO REMAIN.
- DE2 UNLESS OTHERWISE NOTED, ALL LUMINAIRES AND CONTROLS IN THIS AREA ARE TO BE REMOVED. EXISTING BRANCH CIRCUIT WIRING METHODS ARE TO BE REUSED TO SERVE NEW LUMINAIRES AND CONTROLS AS REQUIRED.
- DE3 UNLESS OTHERWISE NOTED, ALL CEILING-MOUNTED RECEPTACLE AND LOW VOLTAGE OUTLET DEVICES, AND CLOCK(S)/ SPEAKER(S)S IN THIS AREA ARE TO BE REMOVED. EXISTING BRANCH CIRCUIT WIRING METHODS ARE TO BE REUSED TO SERVE NEW LUMINAIRES IN NEW CEILING GRID. EXTEND ALL WIRING METHODS AS REQUIRED TO SERVE NEW LUMINAIRES AND CONTROLS AS REQUIRED.
- DE4 UNLESS OTHERWISE NOTED, ALL WALL-MOUNTED RECEPTACLE AND LOW VOLTAGE OUTLET DEVICES IN THIS AREA ARE TO BE REMAIN.
- DE5 UNLESS OTHERWISE NOTED, ALL SURFACE-MOUNTED RACEWAY IN THIS AREA IS TO BE REMOVED AND ALL WIRING METHODS REMOVED TO POINT OF ORIGIN.
- DE6 EXISTING UNIT HEATER EQUIPMENT IS TO REMAIN AND ALL WIRING METHODS REUSED. ELECTRICAL CONTRACTOR IS TO DE-ENERGIZE AND DISCONNECT BRANCH CIRCUIT WIRING METHODS AT THE UNIT. EXISTING BRANCH CIRCUIT WIRING IS TO BE MADE SAFE FOR RECONNECTION OF EQUIPMENT IN NEW CEILING.
- DE7 THE ELECTRICAL CONTRACTOR IS TO REMOVE ALL WIRING METHODS ASSOCIATED WITH DEMOLISHED EXHAUST FAN EQUIPMENT TO POINT OF ORIGIN.
- DE8 THE ELECTRICAL CONTRACTOR IS TO REMOVE ALL DISCONNECTING MEANS AND WIRING METHODS ASSOCIATED WITH DEMOLISHED HVAC EQUIPMENT TO POINT OF ORIGIN.
- DE9 THE ELECTRICAL CONTRACTOR IS TO REMOVE ALL SERVICE DISCONNECTING MEANS AND ASSOCIATED WIRING METHODS TO POINT OF ORIGIN.

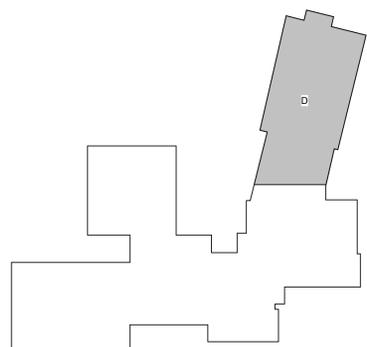


PARTIAL SECOND FLOOR DEMO AREA B- ELECTRICAL
1/8" = 1'-0"

NOTICE
THE SCHEDULES AND DRAWINGS REPRESENT ONLY CERTAIN REQUIREMENTS OF THE PROJECT. THERE ARE ADDITIONAL REQUIREMENTS IN THE SPECIFICATIONS BOOKLET WHICH THE CONTRACTOR IS BOUND TO PROVIDE. A SUPPLIER OR CONTRACTOR'S PRICING, WHICH IS BASED ONLY ON DRAWINGS OR SCHEDULES, MAY LEAVE IMPORTANT COSTS UNACCOUNTED FOR WHICH WILL ULTIMATELY BE THE CONTRACTOR OR SUPPLIER'S RESPONSIBILITY TO PROVIDE.

THE DELIVERY OF THIS DRAWING SHOULD NOT BE CONSTRUED TO PROVIDE AN EXPRESS WARRANTY OR GUARANTEE TO ANYONE THAT ALL THE DIMENSIONS AND DETAILS ARE EXACT OR TO INDICATE THAT THE USE OF THIS DRAWING IMPLIES THE REVIEW AND APPROVAL BY THE DESIGN PROFESSIONAL OF ANY FUTURE USE. ANY USE OF THIS INFORMATION WITHOUT THE WRITTEN APPROVAL OF THE DESIGN PROFESSIONAL IS AT THE SOLE RISK AND LIABILITY OF THE USER. THE DESIGN PROFESSIONAL RESERVES THE RIGHT TO REMOVE OUR PROFESSIONAL SEAL AND/OR TITLE BLOCK.

KEY PLAN
NO SCALE



CHESTER UPLAND S.D.
TOBY FARMS INTERMEDIATE SCHOOL, HVAC and WINDOW UPGRADES
201 BRIDGEWATER ROAD
BROOKHAVEN, PA 19015
PARTIAL SECOND FLOOR DEMO AREA B- ELECTRICAL

PROJECT NO: 2022-327
DRAWN BY: RG, DD
DATE: 03/15/2023
SCALE: AS NOTED

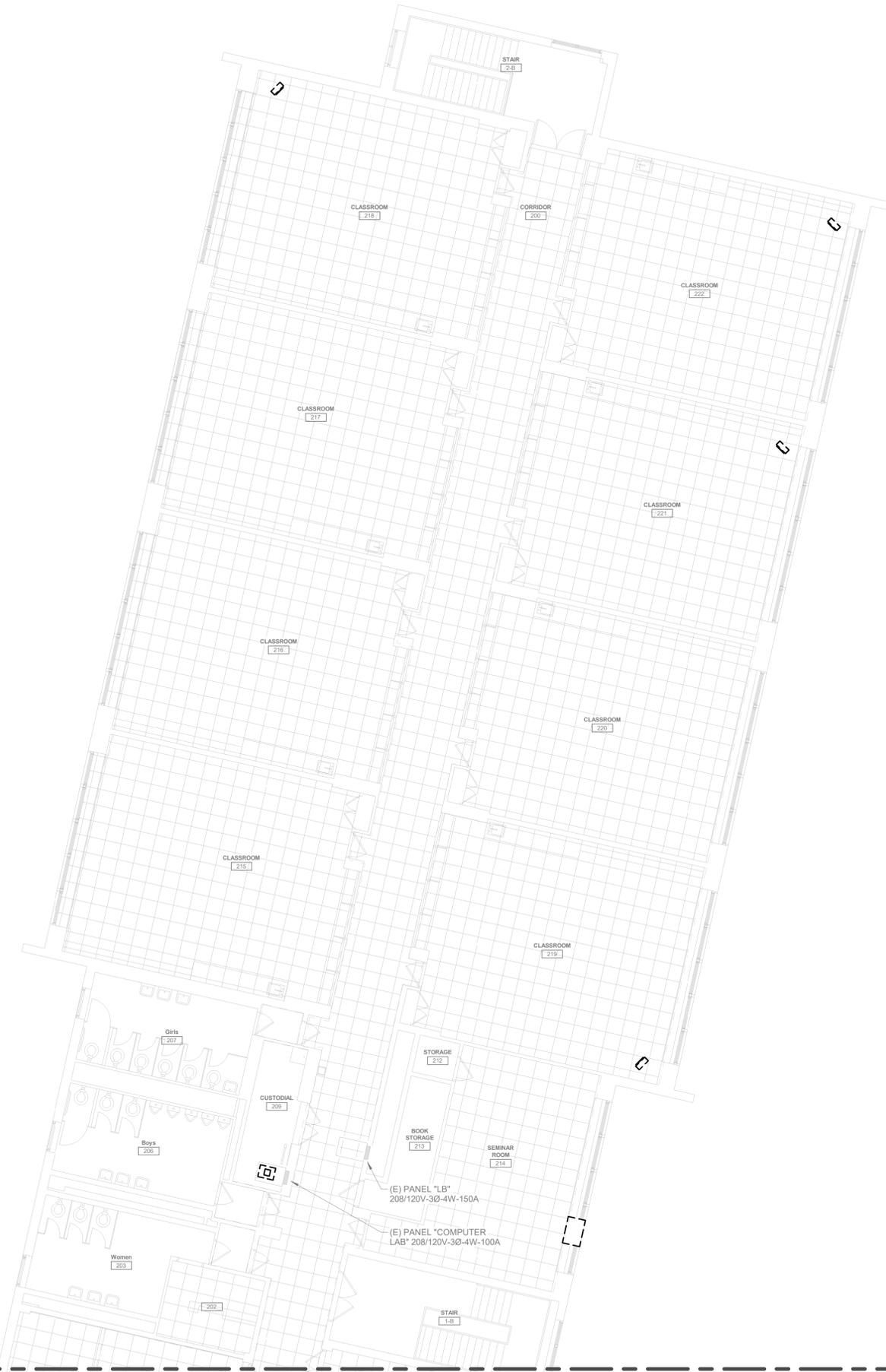


100% Bid Set - 15 March 2023

Rev. No.	Date	Description
1	10/28/22	SCHEMATIC DESIGN ISSUE
2		
3		
4		
5		
6		
7		
8		
9		
10		

Plans, specifications, reports, documents, or other information received on or transmitted as a result of this project, whether by electronic or physical means, are the property of the architect and are to be held in confidence. No part of this information is to be reproduced, stored in a retrieval system, or transmitted, in any form or by any means, without the prior written permission of the architect. The architect assumes no responsibility for the accuracy or completeness of the information provided. All drawings, specifications, and related documents are the property of the architect and must be held in confidence. No part of this information is to be reproduced, stored in a retrieval system, or transmitted, in any form or by any means, without the prior written permission of the architect. Do not scale drawings.

ED102b



PARTIAL SECOND FLOOR DEMO AREA D- ELECTRICAL

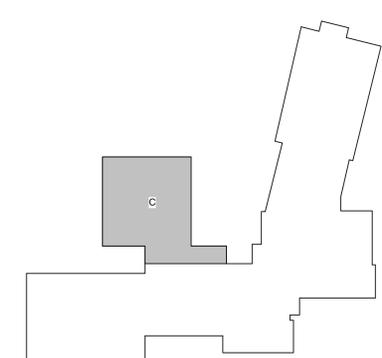
1/8" = 1'-0"

ELECTRICAL DEMOLITION NOTES:

1. ELECTRICAL CONTRACTOR IS TO VERIFY ALL EXISTING CONDITIONS IN FIELD PRIOR ANY WORK. ALL DEMOLISHED EQUIPMENT AND DEVICES ARE TO BE REMOVED FROM THE SITE BY THE ELECTRICAL CONTRACTOR.
2. REMOVE BRANCH CIRCUIT WIRING METHODS TO POINT OF ORIGIN (OR TO ITS NEAREST ACTIVE DEVICE). RESTORE ALL CIRCUITS INTERRUPTED BY DEMOLITION WORK TO MAINTAIN CIRCUIT CONTINUITY.
3. ALL OVERCURRENT PROTECTION DEVICES THAT BECOME "SPARE" AS A RESULT OF DEMOLITION WORK ARE TO BE LABELED SET IN THE "OFF" POSITION AND LABELED "SPARE".
4. ALL PANELBOARDS IMPACTED BY RENOVATION WORK ARE TO BE PROVIDED WITH UPDATED DIRECTORIES.
5. FIRE ALARM DEVICES ARE TO REMAIN OPERATIONAL AND ARE TO BE PROPERLY PROTECTED DURING CONSTRUCTION. REINSTALL EXISTING DEVICES IN NEW CEILINGS.
6. ALL POWER SHUTDOWNS ARE TO BE SCHEDULED AND COORDINATED WITH OWNER.
7. THE INTENT IS FOR ALL ADJACENT AREAS TO REMAIN ENERGIZED DURING CONSTRUCTION. THE CONTRACTOR IS TO MODIFY ALL EXISTING WIRING METHODS TO FACILITATE THIS INTENT.
8. THE INTENT IS TO REMOVE ALL ELECTRICAL WIRING DEVICES WHICH INTERFERE WITH NEW CONSTRUCTION WORK, OR DEMOLITION WORK WHETHER SPECIFICALLY IDENTIFIED OR NOT.

ELECTRICAL DEMOLITION KEYNOTES:

- (DE1) EXISTING DISTRIBUTION AND/OR BRANCH CIRCUIT PANELBOARD EQUIPMENT IS TO REMAIN.
- (DE2) UNLESS OTHERWISE NOTED, ALL LUMINAIRES AND CONTROLS IN THIS AREA ARE TO BE REMOVED. EXISTING BRANCH CIRCUIT WIRING METHODS ARE TO BE REUSED TO SERVE NEW LUMINAIRES IN NEW CEILING GRID. EXTEND ALL WIRING METHODS AS REQUIRED TO SERVE NEW LUMINAIRES AND CONTROLS AS REQUIRED.
- (DE3) UNLESS OTHERWISE NOTED, ALL CEILING-MOUNTED RECEPTACLE AND LOW VOLTAGE OUTLET DEVICES, AND CLOCK(S) SPEAKER(S) IN THIS AREA ARE TO BE REMOVED. EXISTING BRANCH CIRCUIT WIRING METHODS ARE TO BE REUSED TO SERVE NEW LUMINAIRES IN NEW CEILING GRID. EXTEND ALL WIRING METHODS AS REQUIRED TO SERVE NEW LUMINAIRES AND CONTROLS AS REQUIRED.
- (DE4) UNLESS OTHERWISE NOTED, ALL WALL-MOUNTED RECEPTACLE AND LOW VOLTAGE OUTLET DEVICES IN THIS AREA ARE TO BE REMAIN.
- (DE5) UNLESS OTHERWISE NOTED, ALL SURFACE-MOUNTED RACEWAY IN THIS AREA IS TO BE REMOVED AND ALL WIRING METHODS REMOVED TO POINT OF ORIGIN.
- (DE6) EXISTING UNIT HEATER EQUIPMENT IS TO REMAIN AND ALL WIRING METHODS REUSED. ELECTRICAL CONTRACTOR IS TO DE-ENERGIZE AND DISCONNECT BRANCH CIRCUIT WIRING METHODS AT THE UNIT. EXISTING BRANCH CIRCUIT WIRING IS TO BE MADE SAFE FOR RECONNECTION OF EQUIPMENT IN NEW CEILING.
- (DE7) THE ELECTRICAL CONTRACTOR IS TO REMOVE ALL WIRING METHODS ASSOCIATED WITH DEMOLISHED EXHAUST FAN EQUIPMENT TO POINT OF ORIGIN.
- (DE8) THE ELECTRICAL CONTRACTOR IS TO REMOVE ALL DISCONNECTING MEANS AND WIRING METHODS ASSOCIATED WITH DEMOLISHED HVAC EQUIPMENT TO POINT OF ORIGIN.
- (DE9) THE ELECTRICAL CONTRACTOR IS TO REMOVE ALL SERVICE DISCONNECTING MEANS AND ASSOCIATED WIRING METHODS TO POINT OF ORIGIN.



KEY PLAN
NO SCALE

NOTICE

THE SCHEDULES AND DRAWINGS REPRESENT ONLY CERTAIN REQUIREMENTS OF THE PROJECT. THERE ARE ADDITIONAL REQUIREMENTS IN THE SPECIFICATIONS BOOKLET WHICH THE CONTRACTOR IS BOUND TO PROVIDE. A SUPPLIER OR CONTRACTOR'S PRICING, WHICH IS BASED ONLY ON DRAWINGS OR SCHEDULES, MAY LEAVE IMPORTANT COSTS UNACCOUNTED FOR WHICH WILL ULTIMATELY BE THE CONTRACTOR OR SUPPLIER'S RESPONSIBILITY TO PROVIDE.

THE DELIVERY OF THIS DRAWING SHOULD NOT BE CONSTRUED TO PROVIDE AN EXPRESS WARRANTY OR GUARANTEE TO ANYONE THAT ALL THE DIMENSIONS AND DETAILS ARE EXACT OR TO INDICATE THAT THE USE OF THIS DRAWING IMPLIES THE REVIEW AND APPROVAL BY THE DESIGN PROFESSIONAL OF ANY FUTURE USE. ANY USE OF THIS INFORMATION WITHOUT THE WRITTEN APPROVAL BY THE DESIGN PROFESSIONAL IS AT THE SOLE RISK AND LIABILITY OF THE USER. THE DESIGN PROFESSIONAL RESERVES THE RIGHT TO REMOVE OUR PROFESSIONAL SEAL AND/OR TITLE BLOCK.

CHESTER UPLAND S.D.
TOBY FARMS INTERMEDIATE SCHOOL, HVAC and WINDOW UPGRADES
201 BRIDGEWATER ROAD
BROOKHAVEN, PA 19015
PARTIAL SECOND FLOOR DEMO AREA D- ELECTRICAL

ED102d



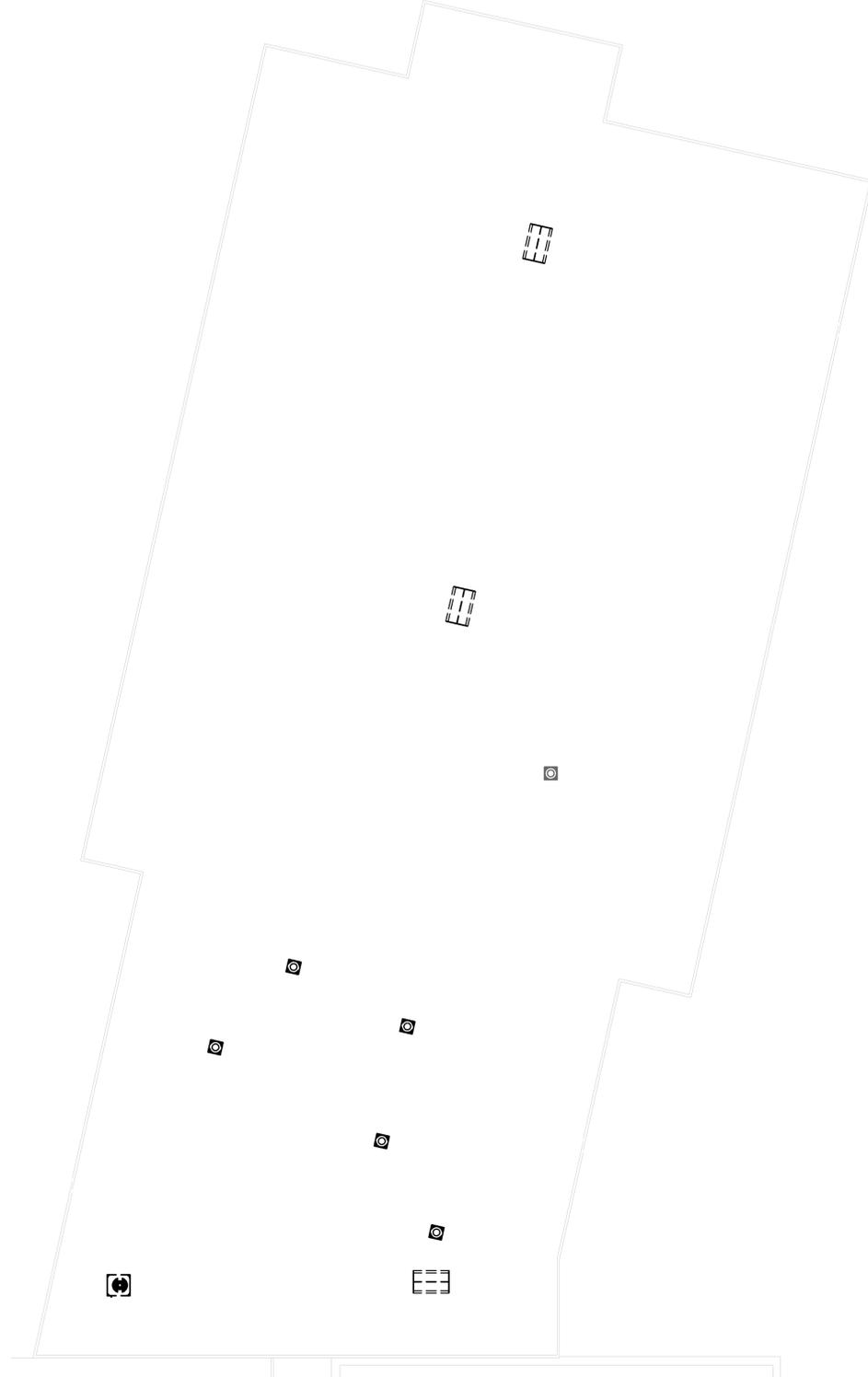
135 Poplar Street, Ambler, PA 19002
1950 Route 100, West Chester, OH 41091
www.mchugheng.com
215.641.1188

100% Bid Set - 15 March 2023

PROJECT NO: 2022-327
DRAWN BY: MG, DD
DATE: 03/15/2023
SCALE: AS NOTED

Rev. No.	Date	Description
1	10/26/22	SCHEMATIC DESIGN ISSUE

Plans, specifications, reports, documents, or other information received on or transmitted as a result of this project, in whole or in part, are the property of the design professional. They are to be used only for the project and site identified herein. They are not to be reproduced, stored in a retrieval system, or transmitted in any form or by any means, electronic, mechanical, photocopying, recording, or by any information storage and retrieval system, without the prior written permission of the design professional. The design professional shall not be held responsible for any errors or omissions in this document. All drawings, specifications, and related documents are the property of the architect and must be kept confidential. The design professional shall not be held responsible for any errors or omissions in this document. The design professional shall not be held responsible for any errors or omissions in this document. Do not scale drawings.



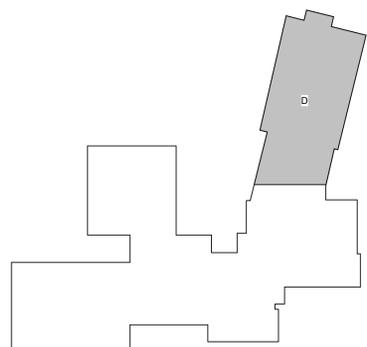
NORTH
PARTIAL ROOF DEMO AREA D - ELECTRICAL
3/32" = 1'-0"

ELECTRICAL DEMOLITION NOTES:

1. ELECTRICAL CONTRACTOR IS TO VERIFY ALL EXISTING CONDITIONS IN FIELD PRIOR ANY WORK. ALL DEMOLISHED EQUIPMENT AND DEVICES ARE TO BE REMOVED FROM THE SITE BY THE ELECTRICAL CONTRACTOR.
2. REMOVE BRANCH CIRCUIT WIRING METHODS TO POINT OF ORIGIN (OR TO ITS NEAREST ACTIVE DEVICE). RESTORE ALL CIRCUITS INTERRUPTED BY DEMOLITION WORK TO MAINTAIN CIRCUIT CONTINUITY.
3. ALL OVERCURRENT PROTECTION DEVICES THAT BECOME "SPARE" AS A RESULT OF DEMOLITION WORK ARE TO BE LABELED SET IN THE "OFF" POSITION AND LABELED "SPARE".
4. ALL PANELBOARDS IMPACTED BY RENOVATION WORK ARE TO BE PROVIDED WITH UPDATED DIRECTORIES.
5. FIRE ALARM DEVICES ARE TO REMAIN OPERATIONAL AND ARE TO BE PROPERLY PROTECTED DURING CONSTRUCTION. REINSTALL EXISTING DEVICES IN NEW CEILINGS.
6. ALL POWER SHUTDOWNS ARE TO BE SCHEDULED AND COORDINATED WITH OWNER.
7. THE INTENT IS FOR ALL ADJACENT AREAS TO REMAIN ENERGIZED DURING CONSTRUCTION. THE CONTRACTOR IS TO MODIFY ALL EXISTING WIRING METHODS TO FACILITATE THIS INTENT.
8. THE INTENT IS TO REMOVE ALL ELECTRICAL WIRING DEVICES WHICH INTERFERE WITH NEW CONSTRUCTION WORK, OR DEMOLITION WORK WHETHER SPECIFICALLY IDENTIFIED OR NOT.

ELECTRICAL DEMOLITION KEYNOTES:

- (DE1) EXISTING DISTRIBUTION AND/OR BRANCH CIRCUIT PANELBOARD EQUIPMENT IS TO REMAIN.
- (DE2) UNLESS OTHERWISE NOTED, ALL LUMINAIRES AND CONTROLS IN THIS AREA ARE TO BE REMOVED. EXISTING BRANCH CIRCUIT WIRING METHODS ARE TO BE REUSED TO SERVE NEW LUMINAIRES IN NEW CEILING GRID. EXTEND ALL WIRING METHODS AS REQUIRED TO SERVE NEW LUMINAIRES AND CONTROLS AS REQUIRED.
- (DE3) UNLESS OTHERWISE NOTED, ALL CEILING-MOUNTED RECEPTACLE AND LOW VOLTAGE OUTLET DEVICES, AND CLOCK(S) SPEAKER(S) IN THIS AREA ARE TO BE REMOVED. EXISTING BRANCH CIRCUIT WIRING METHODS ARE TO BE REUSED TO SERVE NEW LUMINAIRES IN NEW CEILING GRID. EXTEND ALL WIRING METHODS AS REQUIRED TO SERVE NEW LUMINAIRES AND CONTROLS AS REQUIRED.
- (DE4) UNLESS OTHERWISE NOTED, ALL WALL-MOUNTED RECEPTACLE AND LOW VOLTAGE OUTLET DEVICES IN THIS AREA ARE TO BE REMAIN.
- (DE5) UNLESS OTHERWISE NOTED, ALL SURFACE-MOUNTED RACEWAY IN THIS AREA IS TO BE REMOVED AND ALL WIRING METHODS REMOVED TO POINT OF ORIGIN.
- (DE6) EXISTING UNIT HEATER EQUIPMENT IS TO REMAIN AND ALL WIRING METHODS REUSED. ELECTRICAL CONTRACTOR IS TO DE-ENERGIZE AND DISCONNECT BRANCH CIRCUIT WIRING METHODS AT THE UNIT. EXISTING BRANCH CIRCUIT WIRING IS TO BE MADE SAFE FOR RECONNECTION OF EQUIPMENT IN NEW CEILING.
- (DE7) THE ELECTRICAL CONTRACTOR IS TO REMOVE ALL WIRING METHODS ASSOCIATED WITH DEMOLISHED EXHAUST FAN EQUIPMENT TO POINT OF ORIGIN.
- (DE8) THE ELECTRICAL CONTRACTOR IS TO REMOVE ALL DISCONNECTING MEANS AND WIRING METHODS ASSOCIATED WITH DEMOLISHED HVAC EQUIPMENT TO POINT OF ORIGIN.
- (DE9) THE ELECTRICAL CONTRACTOR IS TO REMOVE ALL SERVICE DISCONNECTING MEANS AND ASSOCIATED WIRING METHODS TO POINT OF ORIGIN.



KEY PLAN
NO SCALE

NOTICE

THE SCHEDULES AND DRAWINGS REPRESENT ONLY CERTAIN REQUIREMENTS OF THE PROJECT. THERE ARE ADDITIONAL REQUIREMENTS IN THE SPECIFICATIONS BOOKLET WHICH THE CONTRACTOR IS BOUND TO PROVIDE. A SUPPLIER OR CONTRACTOR'S PRICING, WHICH IS BASED ONLY ON DRAWINGS OR SCHEDULES, MAY LEAVE IMPORTANT COSTS UNACCOUNTED FOR WHICH WILL ULTIMATELY BE THE CONTRACTOR OR SUPPLIER'S RESPONSIBILITY TO PROVIDE.

THE DELIVERY OF THIS DRAWING SHOULD NOT BE CONSTRUED TO PROVIDE AN EXPRESS WARRANTY OR GUARANTEE TO ANYONE THAT ALL THE DIMENSIONS AND DETAILS ARE EXACT OR TO INDICATE THAT THE USE OF THIS DRAWING IMPLIES THE REVIEW AND APPROVAL BY THE DESIGN PROFESSIONAL OF ANY FUTURE USE. ANY USE OF THIS INFORMATION WITHOUT THE WRITTEN APPROVAL BY THE DESIGN PROFESSIONAL IS AT THE SOLE RISK AND LIABILITY OF THE USER. THE DESIGN PROFESSIONAL RESERVES THE RIGHT TO REMOVE OUR PROFESSIONAL SEAL AND/OR TITLE BLOCK.



135 Poplar Street, Ambler, PA 19002
1950 Route 70, Ambler, PA 19002
www.mchugh.com
215.641.1188

100% Bid Set - 15 March 2023

CHESTER UPLAND S.D.
TOBY FARMS INTERMEDIATE SCHOOL, HVAC and WINDOW UPGRADES

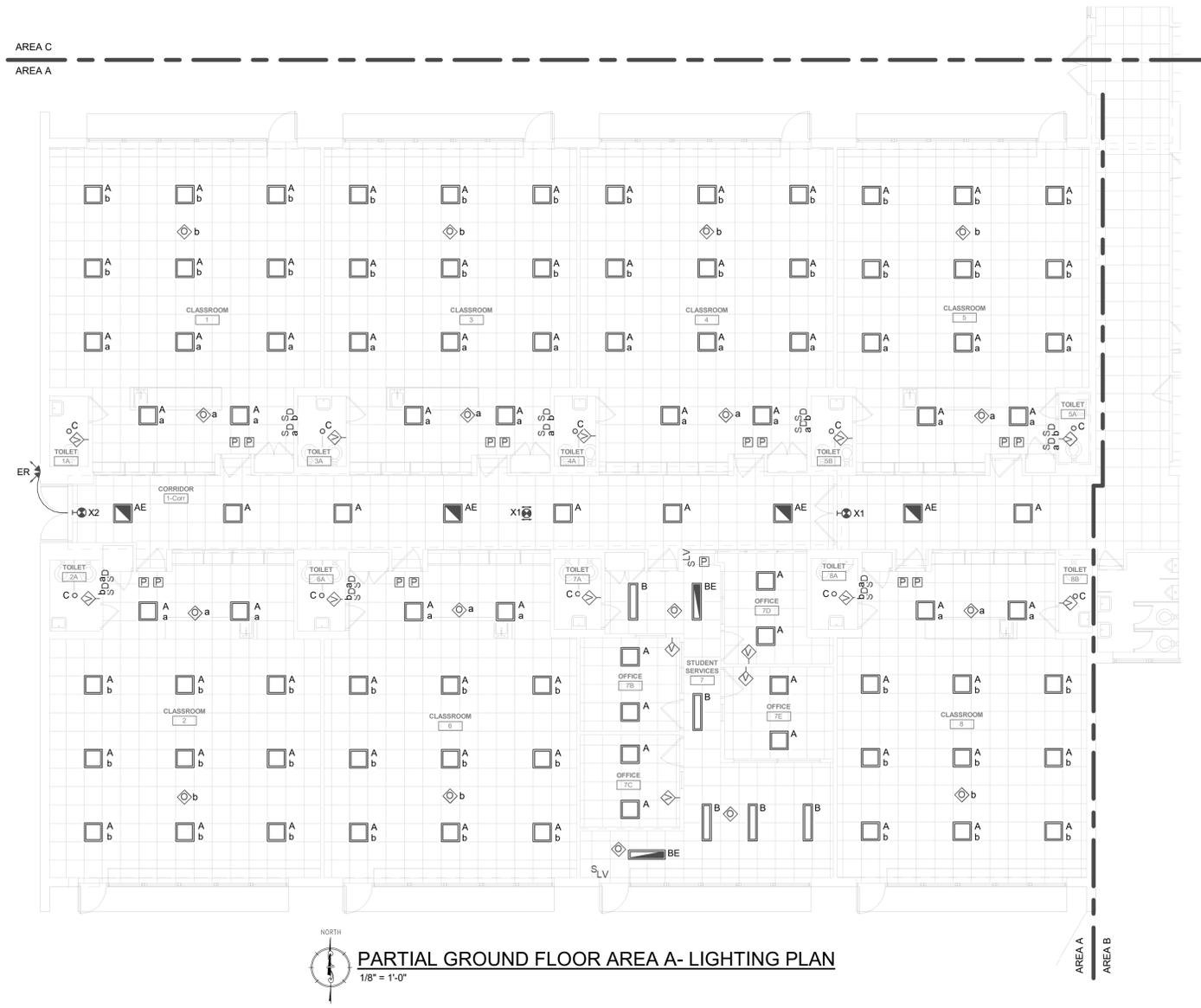
201 BRIDGEWATER ROAD
BROOKHAVEN, PA 19015
PARTIAL DEMO ROOF PLAN AREA D - ELECTRICAL

ED103d

Rev. No.	Date	Description
1	10/26/22	SCHEMATIC DESIGN ISSUE

Plans, specifications, reports, documents, or other information received on or transmitted as a result of this project, in whole or in part, are the property of the design professional. They are to be used only for the project and site identified herein. They are not to be reproduced, stored in a retrieval system, or transmitted in any form or by any means, electronic, mechanical, photocopying, recording, or by any information storage and retrieval system, without the prior written permission of the design professional. All drawings, specifications, and related documents are the copyright of the architect and must be used in accordance with the specifications and related documents in part or in whole. No part of this drawing is to be reproduced or transmitted in any form or by any means without the prior written permission of the architect. Do not scale drawings.





PARTIAL GROUND FLOOR AREA A - LIGHTING PLAN
1/8" = 1'-0"

- GENERAL LUMINAIRE NOTES:**
1. ALL BATTERY EQUIPPED EMERGENCY AND EXIT SIGNAGE LUMINAIRES ARE TO BE CIRCUITED VIA THE UN-SWITCHED LEG OF THE LOCAL AREA LUMINAIRE CIRCUIT.
 2. ALL LUMINAIRE LOCATIONS AND MOUNTING HEIGHTS ARE TO BE COORDINATED WITH THE ARCHITECTURAL AND INTERIOR DESIGN DRAWINGS.
 3. UNLESS OTHERWISE NOTED, ALL NORMAL POWER LUMINAIRE BRANCH CIRCUIT NUMBERS ARE VIA EXISTING BRANCH CIRCUITS IN EXISTING PANELS. EXISTING WIRING METHODS ARE TO BE RE-USED TO SERVE NEW LUMINAIRES. EXTEND ALL WIRING METHODS AS REQUIRED TO SERVE NEW LUMINAIRES.
 4. UNLESS OTHERWISE NOTED, ALL EMERGENCY POWER LUMINAIRES ARE TO BE PROVIDED WITH INTEGRAL BATTERY BACK-UP AND ARE TO BE CIRCUITED AS NIGHTLIGHTS FOR 24/7 OPERATION.
 5. ALL LUMINAIRE CONTROL DEVICES ARE TO BE GANGED TOGETHER, HAVE A COMMON FACE PLATE, AND BE LABELED WITH THEIR AREA(S) OF CONTROL. ALL CONTROL WIRING METHODS ARE TO BE NEW AND ARE TO BE AS REQUIRED BY THE MANUFACTURER.
 6. UNLESS OTHERWISE NOTED, ALL LUMINAIRE CONTROL SENSOR DEVICES IN A SPACE ARE TO BE INTERCONNECTED SO THAT ALL LUMINAIRES WITHIN THE SPACE ARE ENERGIZED WHEN ANY OCCUPANCY SENSOR DEVICE IS ACTIVATED.
 7. CONTRACTOR IS TO PROVIDE A MANUALLY CONTROLLED, OVERRIDE WALL BOX DEVICE FOR ROOM OCCUPANCY SENSORS.
 8. ALL OVERCURRENT PROTECTION DEVICES THAT ARE NOT REUSED TO SERVE NEW LUMINAIRE LOADS ARE TO BE SET TO "OFF" AND LABELED "SPARE".

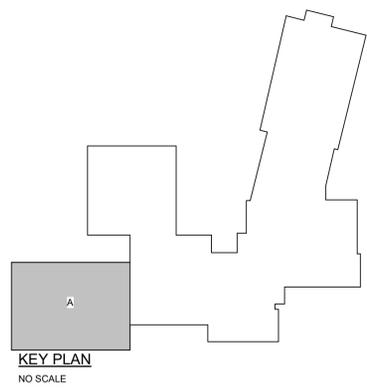
Rev. No.	Date	Description
1	10/26/22	SCHEMATIC DESIGN ISSUE
2		
3		
4		
5		
6		
7		
8		

Plans, specifications, reports, documents or other information received on or transmitted as part of this project, in whole or in part, to, among other things, transmission, conversion, alteration, or other use, without the written consent of the architect, is prohibited. Any reliance on such information for any purpose other than that intended by the architect is at the user's sole risk. All drawings, specifications, and related documents are the property of the architect and must be kept confidential. Specifications and related documents in part or in whole are not to be reproduced, stored in a retrieval system, or transmitted in any form or by any means, electronic, mechanical, photocopying, recording, or by any information storage and retrieval system, without the written permission of the architect. Do not scale drawings.



135 Poplar Street, Ambler, PA 19002
1950 Route 100, West Chester, OH 45380
www.mchugheng.com
215.641.1188

100% Bid Set - 15 March 2023



KEY PLAN
NO SCALE

NOTICE
THE SCHEDULES AND DRAWINGS REPRESENT ONLY CERTAIN REQUIREMENTS OF THE PROJECT. THERE ARE ADDITIONAL REQUIREMENTS IN THE SPECIFICATIONS BOOKLET WHICH THE CONTRACTOR IS BOUND TO PROVIDE. A SUPPLIER OR CONTRACTOR'S PRICING, WHICH IS BASED ONLY ON DRAWINGS OR SCHEDULES, MAY LEAVE IMPORTANT COSTS UNACCOUNTED FOR WHICH WILL ULTIMATELY BE THE CONTRACTOR OR SUPPLIER'S RESPONSIBILITY TO PROVIDE.

THE DELIVERY OF THIS DRAWING SHOULD NOT BE CONSTRUED TO PROVIDE AN EXPRESS WARRANTY OR GUARANTEE TO ANYONE THAT ALL THE DIMENSIONS AND DETAILS ARE EXACT OR TO INDICATE THAT THE USE OF THIS DRAWING IMPLIES THE REVIEW AND APPROVAL BY THE DESIGN PROFESSIONAL OF ANY FUTURE USE. ANY USE OF THIS INFORMATION WITHOUT THE WRITTEN APPROVAL BY THE DESIGN PROFESSIONAL IS AT THE SOLE RISK AND LIABILITY OF THE USER. THE DESIGN PROFESSIONAL RESERVES THE RIGHT TO REMOVE OUR PROFESSIONAL SEAL AND/OR TITLE BLOCK.

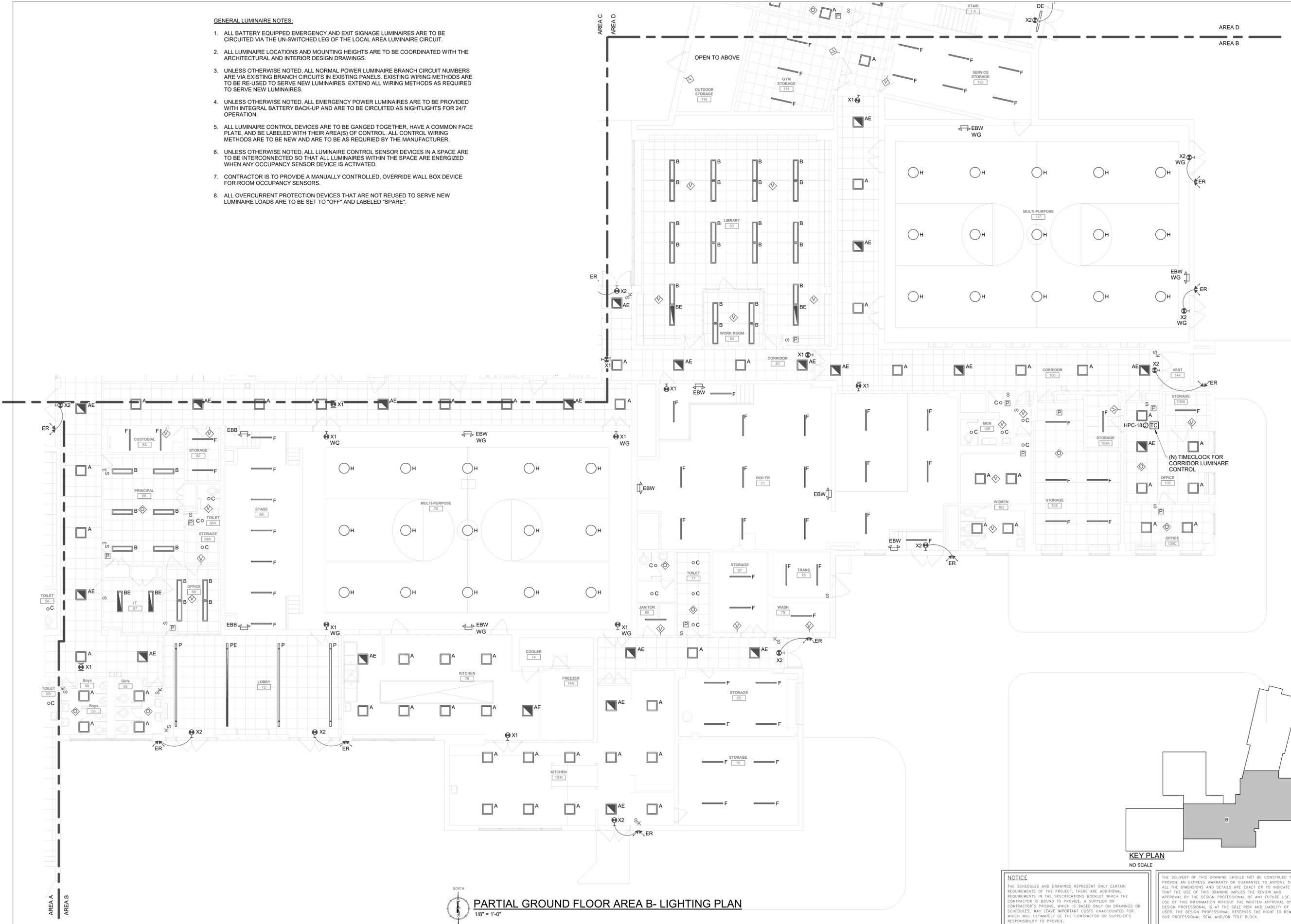
CHESTER UPLAND S.D.
TOBY FARMS INTERMEDIATE SCHOOL, HVAC and WINDOW UPGRADES
201 BRIDGEWATER ROAD
BROOKHAVEN, PA 19015
PARTIAL GROUND FLOOR AREA A - LIGHTING

PROJECT NO: 2022-327
DRAWN BY: RG, DD
DATE: 03/15/2023
SCALE: AS NOTED

E101a

GENERAL LUMINAIRE NOTES:

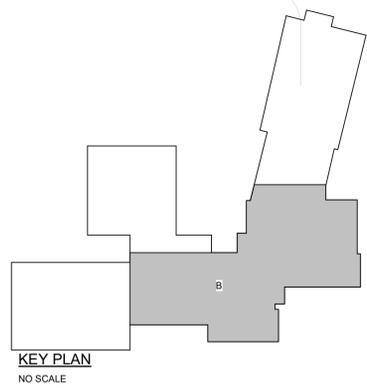
1. ALL BATTERY EQUIPPED EMERGENCY AND EXIT SIGNAGE LUMINAIRES ARE TO BE CIRCUITED VIA THE UN-SWITCHED LEG OF THE LOCAL AREA LUMINAIRE CIRCUIT.
2. ALL LUMINAIRE LOCATIONS AND MOUNTING HEIGHTS ARE TO BE COORDINATED WITH THE ARCHITECTURAL AND INTERIOR DESIGN DRAWINGS.
3. UNLESS OTHERWISE NOTED, ALL NORMAL POWER LUMINAIRE BRANCH CIRCUIT NUMBERS ARE VIA EXISTING BRANCH CIRCUITS IN EXISTING PANELS. EXISTING WIRING METHODS ARE TO BE RE-USED TO SERVE NEW LUMINAIRES. EXTEND ALL WIRING METHODS AS REQUIRED TO SERVE NEW LUMINAIRES.
4. UNLESS OTHERWISE NOTED, ALL EMERGENCY POWER LUMINAIRES ARE TO BE PROVIDED WITH INTEGRAL BATTERY BACK-UP AND ARE TO BE CIRCUITED AS NIGHTLIGHTS FOR 24/7 OPERATION.
5. ALL LUMINAIRE CONTROL DEVICES ARE TO BE GANGED TOGETHER, HAVE A COMMON FACE PLATE, AND BE LABELED WITH THEIR AREA(S) OF CONTROL. ALL CONTROL WIRING METHODS ARE TO BE NEW AND ARE TO BE AS REQUIRED BY THE MANUFACTURER.
6. UNLESS OTHERWISE NOTED, ALL LUMINAIRE CONTROL SENSOR DEVICES IN A SPACE ARE TO BE INTERCONNECTED SO THAT ALL LUMINAIRES WITHIN THE SPACE ARE ENERGIZED WHEN ANY OCCUPANCY SENSOR DEVICE IS ACTIVATED.
7. CONTRACTOR IS TO PROVIDE A MANUALLY CONTROLLED, OVERRIDE WALL BOX DEVICE FOR ROOM OCCUPANCY SENSORS.
8. ALL OVERCURRENT PROTECTION DEVICES THAT ARE NOT REUSED TO SERVE NEW LUMINAIRE LOADS ARE TO BE SET TO "OFF" AND LABELED "SPARE".



PARTIAL GROUND FLOOR AREA B - LIGHTING PLAN
1/8" = 1'-0"

NOTICE
THE SCHEDULES AND DRAWINGS REPRESENT ONLY CERTAIN REQUIREMENTS OF THE PROJECT. THERE ARE ADDITIONAL REQUIREMENTS IN THE SPECIFICATIONS BOOKLET WHICH THE CONTRACTOR IS BOUND TO PROVIDE. A SUPPLIER OR CONTRACTOR'S PRICING, WHICH IS BASED ONLY ON DRAWINGS OR SCHEDULES, MAY LEAVE IMPORTANT COSTS UNACCOUNTED FOR WHICH WILL ULTIMATELY BE THE CONTRACTOR OR SUPPLIER'S RESPONSIBILITY TO PROVIDE.

THE DELIVERY OF THIS DRAWING SHOULD NOT BE CONSTRUED TO PROVIDE AN EXPRESS WARRANTY OR GUARANTEE TO ANYONE THAT ALL THE DIMENSIONS AND DETAILS ARE EXACT OR TO INDICATE THAT THE USE OF THIS DRAWING IMPLIES THE REVIEW AND APPROVAL BY THE DESIGN PROFESSIONAL OF ANY FUTURE USE. ANY USE OF THIS INFORMATION WITHOUT THE WRITTEN APPROVAL OF THE DESIGN PROFESSIONAL IS AT THE SOLE RISK AND LIABILITY OF THE USER. THE DESIGN PROFESSIONAL RESERVES THE RIGHT TO REMOVE OUR PROFESSIONAL SEAL AND/OR TITLE BLOCK.



CHESTER UPLAND S.D.
TOBY FARMS INTERMEDIATE SCHOOL, HVAC and WINDOW UPGRADES
201 BRIDGEWATER ROAD
BROOKHAVEN, PA 19015
PARTIAL GROUND FLOOR AREA B - LIGHTING

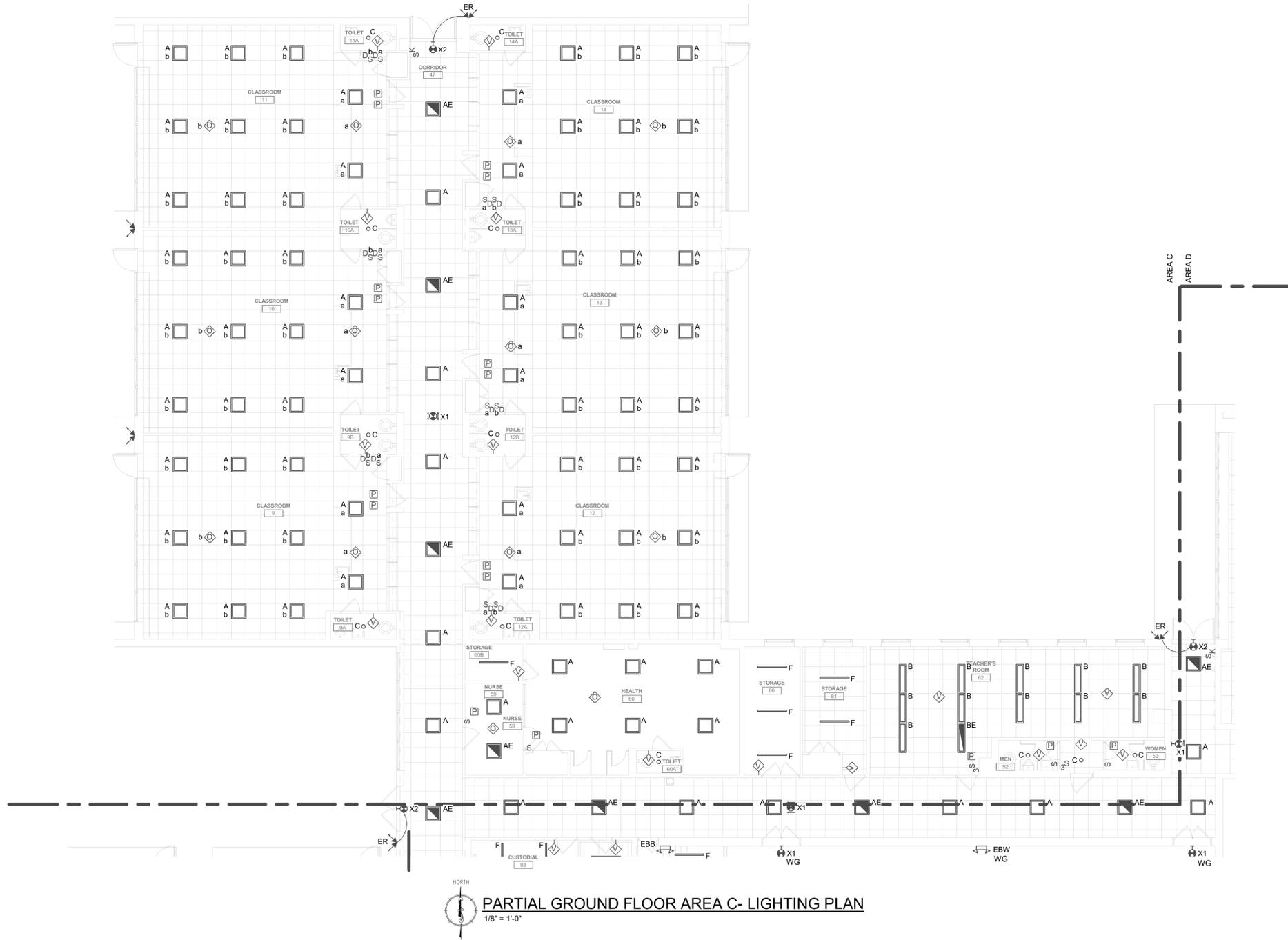
E101b

100% Bid Set - 15 March 2023

Rev. No.	Date	Description
1	10/28/22	SCHEMATIC DESIGN ISSUE
2		
3		
4		
5		
6		
7		
8		

Plans, specifications, reports, documents, or other information received on or transmitted as part of this project, whether by electronic or physical means, are the property of the design professional and are to be used only for the project and site identified herein. No part of this information may be reproduced, stored in a retrieval system, or transmitted in any form or by any means, electronic, mechanical, photocopying, recording, or by any information storage and retrieval system, without the prior written permission of the design professional. The design professional reserves the right to remove our professional seal and/or title block.

PROJECT NO.: 2022-327
DRAWN BY: RG, BD
DATE: 03/15/2023
SCALE: AS NOTED



PARTIAL GROUND FLOOR AREA C- LIGHTING PLAN
1/8" = 1'-0"

GENERAL LUMINAIRE NOTES:

1. ALL BATTERY EQUIPPED EMERGENCY AND EXIT SIGNAGE LUMINAIRES ARE TO BE CIRCUITED VIA THE UN-SWITCHED LEG OF THE LOCAL AREA LUMINAIRE CIRCUIT.
2. ALL LUMINAIRE LOCATIONS AND MOUNTING HEIGHTS ARE TO BE COORDINATED WITH THE ARCHITECTURAL AND INTERIOR DESIGN DRAWINGS.
3. UNLESS OTHERWISE NOTED, ALL NORMAL POWER LUMINAIRE BRANCH CIRCUIT NUMBERS ARE VIA EXISTING BRANCH CIRCUITS IN EXISTING PANELS. EXISTING WIRING METHODS ARE TO BE RE-USED TO SERVE NEW LUMINAIRES. EXTEND ALL WIRING METHODS AS REQUIRED TO SERVE NEW LUMINAIRES.
4. UNLESS OTHERWISE NOTED, ALL EMERGENCY POWER LUMINAIRES ARE TO BE PROVIDED WITH INTEGRAL BATTERY BACK-UP AND ARE TO BE CIRCUITED AS NIGHTLIGHTS FOR 24/7 OPERATION.
5. ALL LUMINAIRE CONTROL DEVICES ARE TO BE GANGED TOGETHER, HAVE A COMMON FACE PLATE, AND BE LABELED WITH THEIR AREA(S) OF CONTROL. ALL CONTROL WIRING METHODS ARE TO BE NEW AND ARE TO BE AS REQUIRED BY THE MANUFACTURER.
6. UNLESS OTHERWISE NOTED, ALL LUMINAIRE CONTROL SENSOR DEVICES IN A SPACE ARE TO BE INTERCONNECTED SO THAT ALL LUMINAIRES WITHIN THE SPACE ARE ENERGIZED WHEN ANY OCCUPANCY SENSOR DEVICE IS ACTIVATED.
7. CONTRACTOR IS TO PROVIDE A MANUALLY CONTROLLED, OVERRIDE WALL BOX DEVICE FOR ROOM OCCUPANCY SENSORS.
8. ALL OVERCURRENT PROTECTION DEVICES THAT ARE NOT REUSED TO SERVE NEW LUMINAIRE LOADS ARE TO BE SET TO "OFF" AND LABELED "SPARE".

Rev. No.	Date	Description
1	10/26/22	SCHEMATIC DESIGN ISSUE
2		
3		
4		
5		
6		
7		
8		

Plans, specifications, reports, documents, or other information received on or transmitted as part of this project, including but not limited to, among other things, transmission, conversion, alteration, or modification of any information, or any part of such documents are provided for the sole purpose of the project and are not to be used for any other purpose. Any reliance on such information is at the user's sole risk. The design professional is not responsible for any information that is not contained in the drawings, specifications, and related documents. All drawings, specifications, and related documents are the property of the architect and must be kept confidential. The design professional is not responsible for any information that is not contained in the drawings, specifications, and related documents. Do not scale drawings.

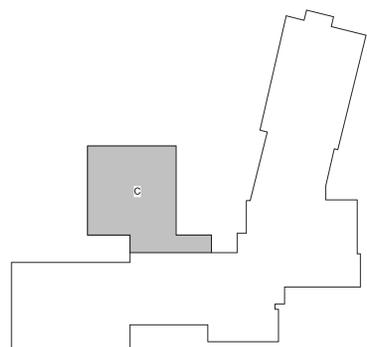


135 Poplar Street, Ambler, PA 19002
1950 Route 100, West Chester, OH 45380
www.mchugheng.com
253.641.1188

100% Bid Set- 15 March 2023

CHESTER UPLAND S.D.
TOBY FARMS INTERMEDIATE SCHOOL, HVAC and WINDOW UPGRADES
201 BRIDGEWATER ROAD
BROOKHAVEN, PA 19015
PARTIAL GROUND FLOOR AREA C - LIGHTING

PROJECT NO: 2022-227
DRAWN BY: HGB/DD
DATE: 03/15/2023
SCALE: AS NOTED



KEY PLAN
NO SCALE

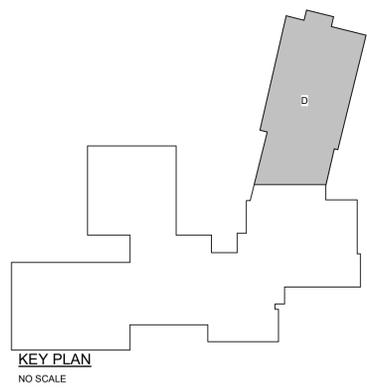
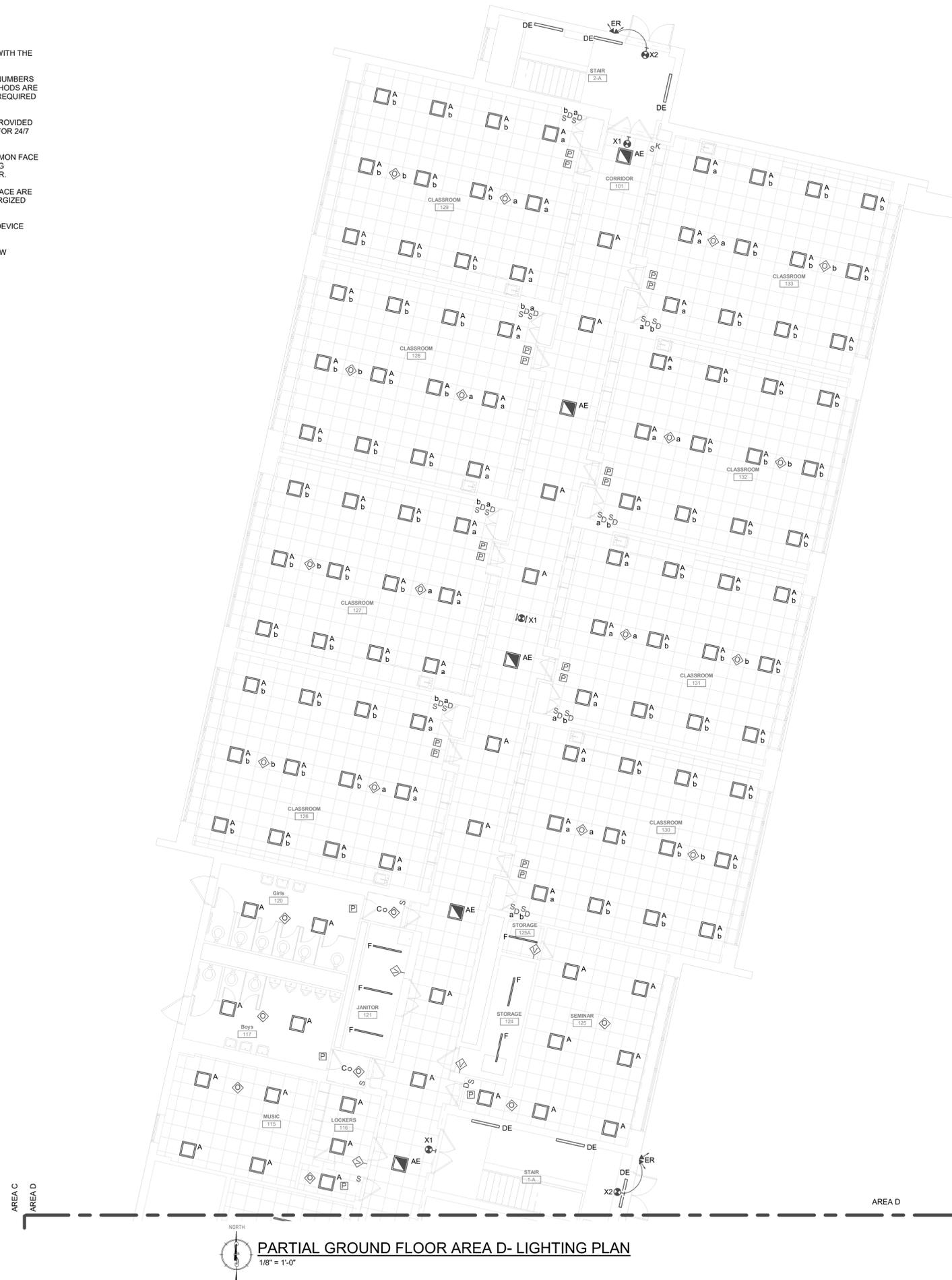
NOTICE
THE SCHEDULES AND DRAWINGS REPRESENT ONLY CERTAIN REQUIREMENTS OF THE PROJECT. THERE ARE ADDITIONAL REQUIREMENTS IN THE SPECIFICATIONS BOOKLET WHICH THE CONTRACTOR IS BOUND TO PROVIDE. A SUPPLIER OR CONTRACTOR'S PRICING, WHICH IS BASED ONLY ON DRAWINGS OR SCHEDULES, MAY LEAVE IMPORTANT COSTS UNACCOUNTED FOR WHICH WILL ULTIMATELY BE THE CONTRACTOR OR SUPPLIER'S RESPONSIBILITY TO PROVIDE.

THE DELIVERY OF THIS DRAWING SHOULD NOT BE CONSTRUED TO PROVIDE AN EXPRESS WARRANTY OR GUARANTEE TO ANYONE THAT ALL THE DIMENSIONS AND DETAILS ARE EXACT OR TO INDICATE THAT THE USE OF THIS DRAWING IMPLIES THE REVIEW AND APPROVAL BY THE DESIGN PROFESSIONAL OF ANY FUTURE USE. ANY USE OF THIS INFORMATION WITHOUT THE WRITTEN APPROVAL OF THE DESIGN PROFESSIONAL IS AT THE SOLE RISK AND LIABILITY OF THE USER. THE DESIGN PROFESSIONAL RESERVES THE RIGHT TO REMOVE OUR PROFESSIONAL SEAL AND/OR TITLE BLOCK.

E101c

GENERAL LUMINAIRE NOTES:

1. ALL BATTERY EQUIPPED EMERGENCY AND EXIT SIGNAGE LUMINAIRES ARE TO BE CIRCUITED VIA THE UN-SWITCHED LEG OF THE LOCAL AREA LUMINAIRE CIRCUIT.
2. ALL LUMINAIRE LOCATIONS AND MOUNTING HEIGHTS ARE TO BE COORDINATED WITH THE ARCHITECTURAL AND INTERIOR DESIGN DRAWINGS.
3. UNLESS OTHERWISE NOTED, ALL NORMAL POWER LUMINAIRE BRANCH CIRCUIT NUMBERS ARE VIA EXISTING BRANCH CIRCUITS IN EXISTING PANELS. EXISTING WIRING METHODS ARE TO BE RE-USED TO SERVE NEW LUMINAIRES. EXTEND ALL WIRING METHODS AS REQUIRED TO SERVE NEW LUMINAIRES.
4. UNLESS OTHERWISE NOTED, ALL EMERGENCY POWER LUMINAIRES ARE TO BE PROVIDED WITH INTEGRAL BATTERY BACK-UP AND ARE TO BE CIRCUITED AS NIGHTLIGHTS FOR 24/7 OPERATION.
5. ALL LUMINAIRE CONTROL DEVICES ARE TO BE GANGED TOGETHER, HAVE A COMMON FACE PLATE, AND BE LABELED WITH THEIR AREA(S) OF CONTROL. ALL CONTROL WIRING METHODS ARE TO BE NEW AND ARE TO BE AS REQUIRED BY THE MANUFACTURER.
6. UNLESS OTHERWISE NOTED, ALL LUMINAIRE CONTROL SENSOR DEVICES IN A SPACE ARE TO BE INTERCONNECTED SO THAT ALL LUMINAIRES WITHIN THE SPACE ARE ENERGIZED WHEN ANY OCCUPANCY SENSOR DEVICE IS ACTIVATED.
7. CONTRACTOR IS TO PROVIDE A MANUALLY CONTROLLED, OVERRIDE WALL BOX DEVICE FOR ROOM OCCUPANCY SENSORS.
8. ALL OVERCURRENT PROTECTION DEVICES THAT ARE NOT REUSED TO SERVE NEW LUMINAIRE LOADS ARE TO BE SET TO "OFF" AND LABELED "SPARE".



NOTICE
THE SCHEDULES AND DRAWINGS REPRESENT ONLY CERTAIN REQUIREMENTS OF THE PROJECT. THERE ARE ADDITIONAL REQUIREMENTS IN THE SPECIFICATIONS BOOKLET WHICH THE CONTRACTOR IS BOUND TO PROVIDE. A SUPPLIER OR CONTRACTOR'S PRICING, WHICH IS BASED ONLY ON DRAWINGS OR SCHEDULES, MAY LEAVE IMPORTANT COSTS UNACCOUNTED FOR WHICH WILL ULTIMATELY BE THE CONTRACTOR OR SUPPLIER'S RESPONSIBILITY TO PROVIDE.

THE DELIVERY OF THIS DRAWING SHOULD NOT BE CONSTRUED TO PROVIDE AN EXPRESS WARRANTY OR GUARANTEE TO ANYONE THAT ALL THE DIMENSIONS AND DETAILS ARE EXACT OR TO INDICATE THAT THE USE OF THIS DRAWING IMPLIES THE REVIEW AND APPROVAL BY THE DESIGN PROFESSIONAL OF ANY FUTURE USE. ANY USE OF THIS INFORMATION WITHOUT THE WRITTEN APPROVAL BY THE DESIGN PROFESSIONAL IS AT THE SOLE RISK AND LIABILITY OF THE USER. THE DESIGN PROFESSIONAL RESERVES THE RIGHT TO REMOVE OUR PROFESSIONAL SEAL AND/OR TITLE BLOCK.

CHESTER UPLAND S.D.
TOBY FARMS INTERMEDIATE SCHOOL, HVAC and WINDOW UPGRADES
201 BRIDGEWATER ROAD
BROOKHAVEN, PA 19015
PARTIAL GROUND FLOOR AREA D - LIGHTING

E101d



100% Bid Set - 15 March 2023

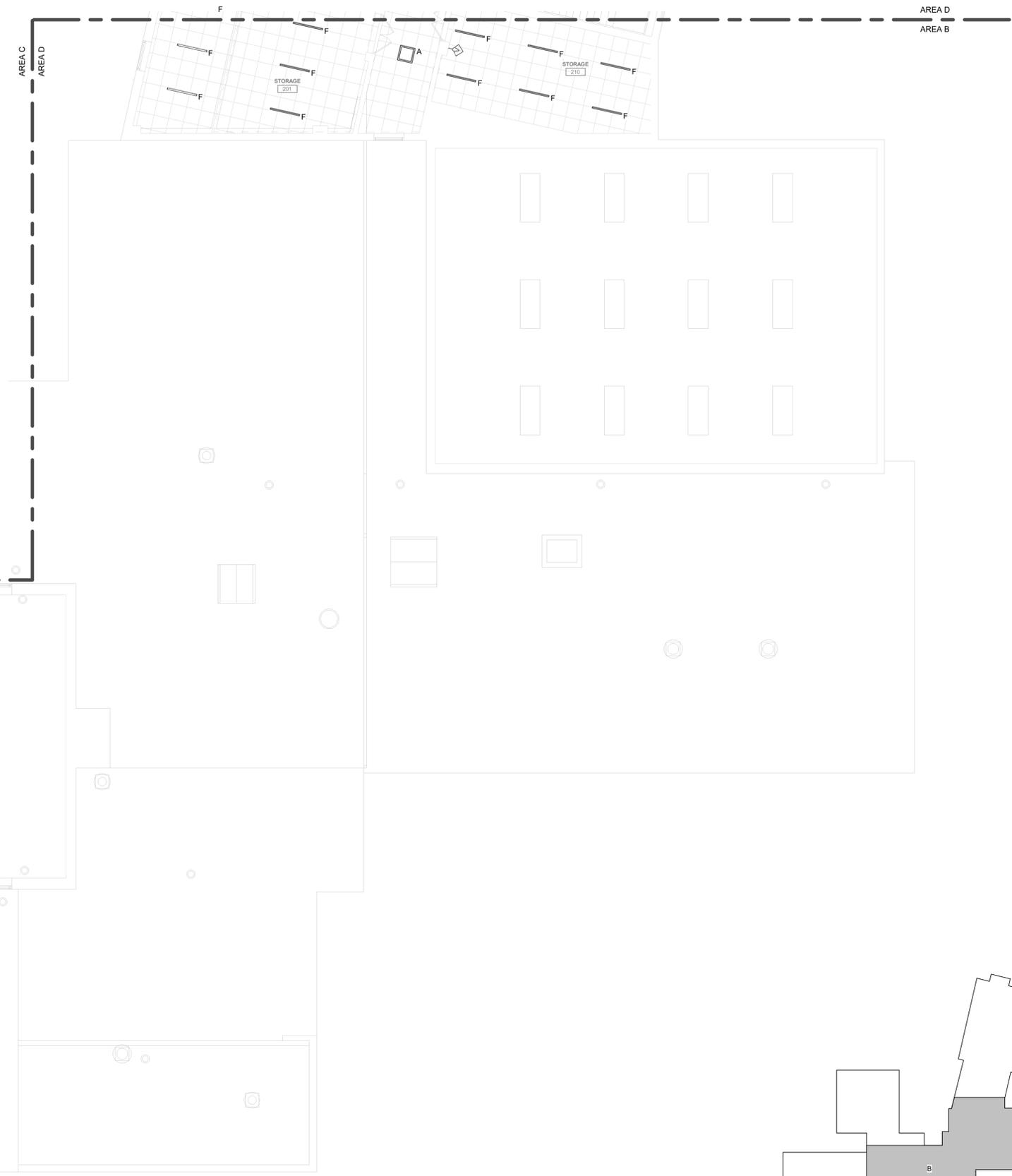
PROJECT NO: 2022-327
DRAWN BY: MG, DD
DATE: 03/15/2023
SCALE: AS NOTED

Rev. No.	Date	Description
1	10/28/22	SCHEMATIC DESIGN ISSUE
2		
3		
4		
5		
6		
7		
8		

Plans, specifications, reports, documents or other information received on or transmitted as part of this project shall remain the property of the architect, and shall not be used, copied, reproduced, altered, or transmitted in any form or by any means, electronic, mechanical, photocopying, recording, or by any information storage and retrieval system, without the prior written permission of the architect. The architect shall not be held responsible for any errors or omissions in this document. All drawings, specifications, and related documents are the property of the architect and shall be returned to the architect upon completion of the project. The architect shall not be held responsible for any errors or omissions in this document. Do not scale drawings.

GENERAL LUMINAIRE NOTES:

1. ALL BATTERY EQUIPPED EMERGENCY AND EXIT SIGNAGE LUMINAIRES ARE TO BE CIRCUITED VIA THE UN-SWITCHED LEG OF THE LOCAL AREA LUMINAIRE CIRCUIT.
2. ALL LUMINAIRE LOCATIONS AND MOUNTING HEIGHTS ARE TO BE COORDINATED WITH THE ARCHITECTURAL AND INTERIOR DESIGN DRAWINGS.
3. UNLESS OTHERWISE NOTED, ALL NORMAL POWER LUMINAIRE BRANCH CIRCUIT NUMBERS ARE VIA EXISTING BRANCH CIRCUITS IN EXISTING PANELS. EXISTING WIRING METHODS ARE TO BE RE-USED TO SERVE NEW LUMINAIRES. EXTEND ALL WIRING METHODS AS REQUIRED TO SERVE NEW LUMINAIRES.
4. UNLESS OTHERWISE NOTED, ALL EMERGENCY POWER LUMINAIRES ARE TO BE PROVIDED WITH INTEGRAL BATTERY BACK-UP AND ARE TO BE CIRCUITED AS NIGHTLIGHTS FOR 24/7 OPERATION.
5. ALL LUMINAIRE CONTROL DEVICES ARE TO BE GANGED TOGETHER, HAVE A COMMON FACE PLATE, AND BE LABELED WITH THEIR AREA(S) OF CONTROL. ALL CONTROL WIRING METHODS ARE TO BE NEW AND ARE TO BE AS REQUIRED BY THE MANUFACTURER.
6. UNLESS OTHERWISE NOTED, ALL LUMINAIRE CONTROL SENSOR DEVICES IN A SPACE ARE TO BE INTERCONNECTED SO THAT ALL LUMINAIRES WITHIN THE SPACE ARE ENERGIZED WHEN ANY OCCUPANCY SENSOR DEVICE IS ACTIVATED.
7. CONTRACTOR IS TO PROVIDE A MANUALLY CONTROLLED, OVERRIDE WALL BOX DEVICE FOR ROOM OCCUPANCY SENSORS.
8. ALL OVERCURRENT PROTECTION DEVICES THAT ARE NOT REUSED TO SERVE NEW LUMINAIRE LOADS ARE TO BE SET TO "OFF" AND LABELED "SPARE".



AREA A
AREA B



PARTIAL SECOND FLOOR AREA B- LIGHTING PLAN

1/8" = 1'-0"

KEY PLAN

NO SCALE

NOTICE
THE SCHEDULES AND DRAWINGS REPRESENT ONLY CERTAIN REQUIREMENTS OF THE PROJECT. THERE ARE ADDITIONAL REQUIREMENTS IN THE SPECIFICATIONS BOOKLET WHICH THE CONTRACTOR IS BOUND TO PROVIDE. A SUPPLIER OR CONTRACTOR'S PRICING, WHICH IS BASED ONLY ON DRAWINGS OR SCHEDULES, MAY LEAVE IMPORTANT COSTS UNACCOUNTED FOR WHICH WILL ULTIMATELY BE THE CONTRACTOR OR SUPPLIER'S RESPONSIBILITY TO PROVIDE.

THE DELIVERY OF THIS DRAWING SHOULD NOT BE CONSTRUED TO PROVIDE AN EXPRESS WARRANTY OR GUARANTEE TO ANYONE THAT ALL THE DIMENSIONS AND DETAILS ARE EXACT OR TO INDICATE THAT THE USE OF THIS DRAWING IMPLIES THE REVIEW AND APPROVAL BY THE DESIGN PROFESSIONAL OF ANY FUTURE USE. ANY USE OF THIS INFORMATION WITHOUT THE WRITTEN APPROVAL BY THE DESIGN PROFESSIONAL IS AT THE SOLE RISK AND LIABILITY OF THE USER. THE DESIGN PROFESSIONAL RESERVES THE RIGHT TO REMOVE OUR PROFESSIONAL SEAL AND/OR TITLE BLOCK.

CHESTER UPLAND S.D.

TOBY FARMS INTERMEDIATE SCHOOL, HVAC and WINDOW UPGRADES
201 BRIDGEWATER ROAD
BROOKHAVEN, PA 19015

PARTIAL SECOND FLOOR AREA B - LIGHTING

E102b

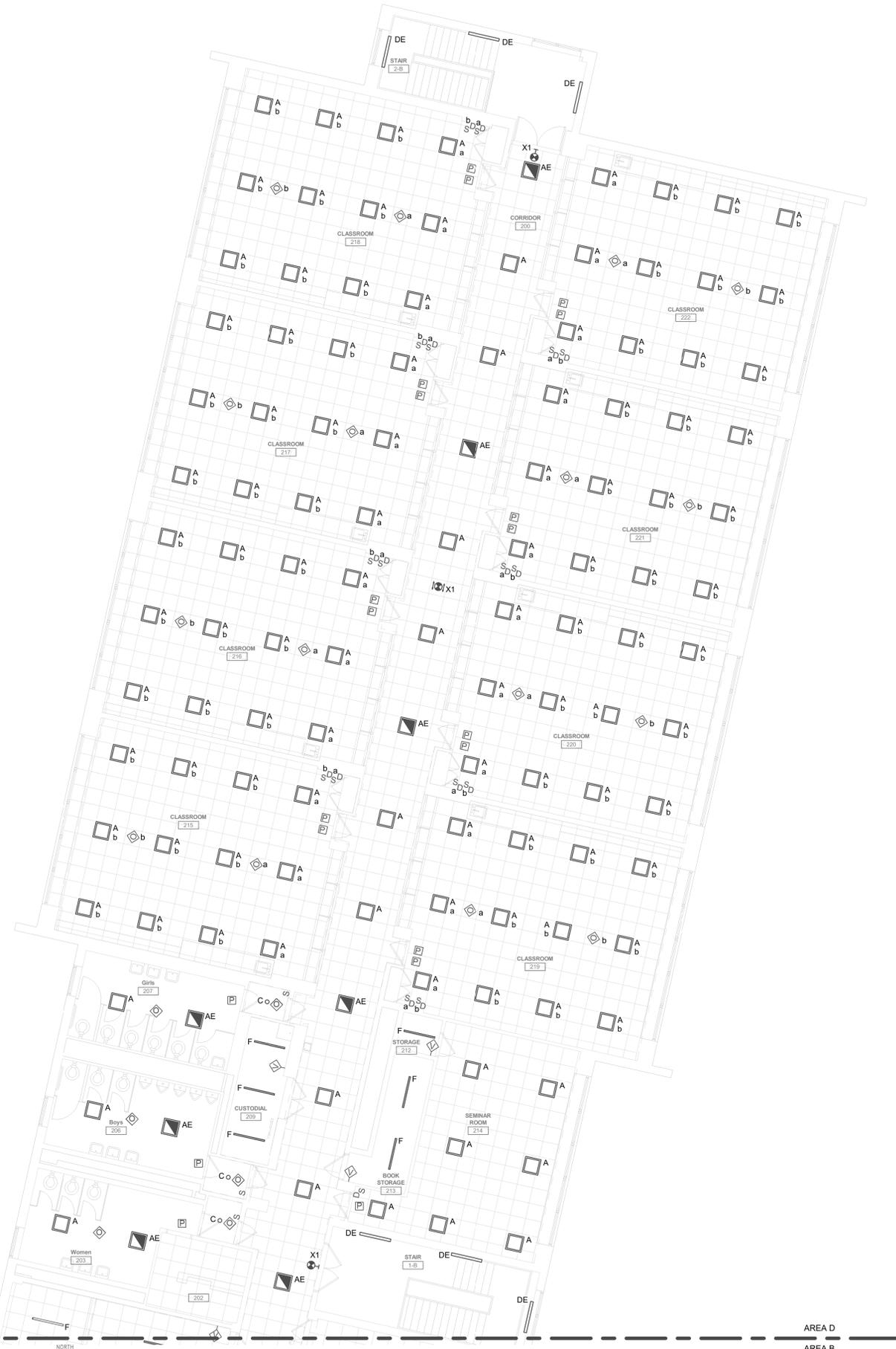
PROJECT NO: 2022-327
DRAWN BY: RG, DD
DATE: 03/15/2023
SCALE: AS NOTED



100% Bid Set - 15 March 2023

Rev. No.	Date	Description
1	10/26/22	SCHEMATIC DESIGN ISSUE
2		
3		
4		
5		
6		
7		
8		

Plans, specifications, reports, documents, or other information received on or transmitted as a result of this project, in whole or in part, to, among other things, for the purpose of alteration, either intentional or unintentional, due to, among other things, transmission, conversion, reproduction, or otherwise, are provided for your information only. No warranty is made for the product nor as a record document. Any reliance on information not intended to be unambiguous and unforgeable. All drawings, specifications, and related documents are copyright of the architect and must be used in accordance with the specifications and related documents in part or in whole without the architect's written permission. Do not scale drawings.

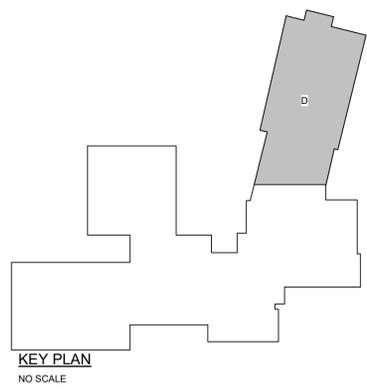


PARTIAL SECOND FLOOR AREA D - LIGHTING PLAN
1/8" = 1'-0"

- GENERAL LUMINAIRE NOTES:**
1. ALL BATTERY EQUIPPED EMERGENCY AND EXIT SIGNAGE LUMINAIRES ARE TO BE CIRCUITED VIA THE UN-SWITCHED LEG OF THE LOCAL AREA LUMINAIRE CIRCUIT.
 2. ALL LUMINAIRE LOCATIONS AND MOUNTING HEIGHTS ARE TO BE COORDINATED WITH THE ARCHITECTURAL AND INTERIOR DESIGN DRAWINGS.
 3. UNLESS OTHERWISE NOTED, ALL NORMAL POWER LUMINAIRE BRANCH CIRCUIT NUMBERS ARE VIA EXISTING BRANCH CIRCUITS IN EXISTING PANELS. EXISTING WIRING METHODS ARE TO BE RE-USED TO SERVE NEW LUMINAIRES. EXTEND ALL WIRING METHODS AS REQUIRED TO SERVE NEW LUMINAIRES.
 4. UNLESS OTHERWISE NOTED, ALL EMERGENCY POWER LUMINAIRES ARE TO BE PROVIDED WITH INTEGRAL BATTERY BACK-UP AND ARE TO BE CIRCUITED AS NIGHTLIGHTS FOR 24/7 OPERATION.
 5. ALL LUMINAIRE CONTROL DEVICES ARE TO BE GANGED TOGETHER, HAVE A COMMON FACE PLATE, AND BE LABELED WITH THEIR AREA(S) OF CONTROL. ALL CONTROL WIRING METHODS ARE TO BE NEW AND ARE TO BE AS REQUIRED BY THE MANUFACTURER.
 6. UNLESS OTHERWISE NOTED, ALL LUMINAIRE CONTROL SENSOR DEVICES IN A SPACE ARE TO BE INTERCONNECTED SO THAT ALL LUMINAIRES WITHIN THE SPACE ARE ENERGIZED WHEN ANY OCCUPANCY SENSOR DEVICE IS ACTIVATED.
 7. CONTRACTOR IS TO PROVIDE A MANUALLY CONTROLLED, OVERRIDE WALL BOX DEVICE FOR ROOM OCCUPANCY SENSORS.
 8. ALL OVERCURRENT PROTECTION DEVICES THAT ARE NOT REUSED TO SERVE NEW LUMINAIRE LOADS ARE TO BE SET TO "OFF" AND LABELED "SPARE".

NOTICE
THE SCHEDULES AND DRAWINGS REPRESENT ONLY CERTAIN REQUIREMENTS OF THE PROJECT. THERE ARE ADDITIONAL REQUIREMENTS IN THE SPECIFICATIONS BOOKLET WHICH THE CONTRACTOR IS BOUND TO PROVIDE. A SUPPLIER OR CONTRACTOR'S PRICING, WHICH IS BASED ONLY ON DRAWINGS OR SCHEDULES, MAY LEAVE IMPORTANT COSTS UNACCOUNTED FOR WHICH WILL ULTIMATELY BE THE CONTRACTOR OR SUPPLIER'S RESPONSIBILITY TO PROVIDE.

THE DELIVERY OF THIS DRAWING SHOULD NOT BE CONSTRUED TO PROVIDE AN EXPRESS WARRANTY OR GUARANTEE TO ANYONE THAT ALL THE DIMENSIONS AND DETAILS ARE EXACT OR TO INDICATE THAT THE USE OF THIS DRAWING IMPLIES THE REVIEW AND APPROVAL BY THE DESIGN PROFESSIONAL OF ANY FUTURE USE. ANY USE OF THIS INFORMATION WITHOUT THE WRITTEN APPROVAL BY THE DESIGN PROFESSIONAL IS AT THE SOLE RISK AND LIABILITY OF THE USER. THE DESIGN PROFESSIONAL RESERVES THE RIGHT TO REMOVE OUR PROFESSIONAL SEAL AND/OR TITLE BLOCK.



CHESTER UPLAND S.D.
TOBY FARMS INTERMEDIATE SCHOOL, HVAC and WINDOW UPGRADES
201 BRIDGEWATER ROAD
BROOKHAVEN, PA 19015
PARTIAL SECOND FLOOR AREA D - LIGHTING

PROJECT NO.: 2022-327
DRAWN BY: MG, DD
DATE: 03/15/2023
SCALE: AS NOTED



100% Bid Set - 15 March 2023

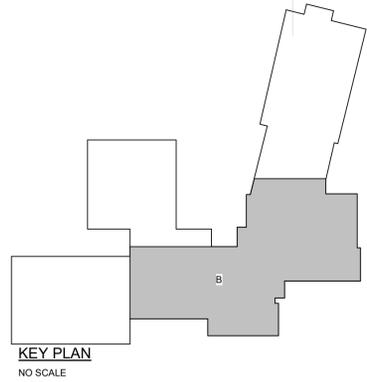
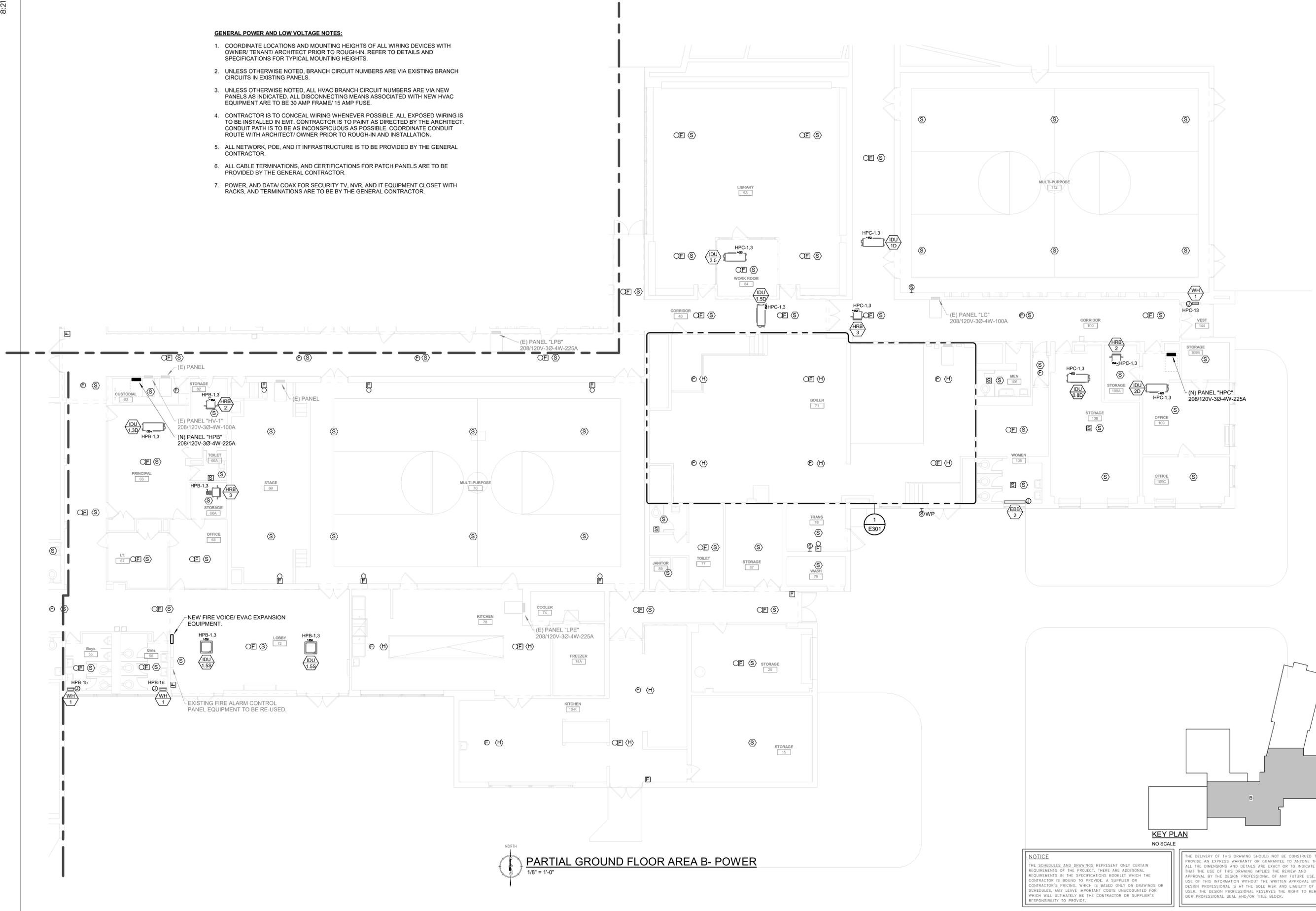
Rev. No.	Date	Description
1	10/26/22	SCHEMATIC DESIGN ISSUE
2		
3		
4		
5		
6		
7		
8		

Plans, specifications, reports, documents, or other information received on or transmitted as a result of this project, including but not limited to, among other things, transmission, conversion, alteration, or such documents are provided for the sole use of the recipient and are not to be used for any other purpose. Any unauthorized use, reproduction, or dissemination of this information is strictly prohibited. All drawings, specifications, and related documents are the property of the architect and must be kept confidential. No part of these drawings, specifications, and related documents may be reproduced, stored in a retrieval system, or transmitted in any form or by any means, electronic, mechanical, photocopying, recording, or by any information storage and retrieval system, without the prior written permission of the architect. Do not scale drawings.

E102d

GENERAL POWER AND LOW VOLTAGE NOTES:

- COORDINATE LOCATIONS AND MOUNTING HEIGHTS OF ALL WIRING DEVICES WITH OWNER/ TENANT/ ARCHITECT PRIOR TO ROUGH-IN. REFER TO DETAILS AND SPECIFICATIONS FOR TYPICAL MOUNTING HEIGHTS.
- UNLESS OTHERWISE NOTED, BRANCH CIRCUIT NUMBERS ARE VIA EXISTING BRANCH CIRCUITS IN EXISTING PANELS.
- UNLESS OTHERWISE NOTED, ALL HVAC BRANCH CIRCUIT NUMBERS ARE VIA NEW PANELS AS INDICATED. ALL DISCONNECTING MEANS ASSOCIATED WITH NEW HVAC EQUIPMENT ARE TO BE 30 AMP FRAME/ 15 AMP FUSE.
- CONTRACTOR IS TO CONCEAL WIRING WHENEVER POSSIBLE. ALL EXPOSED WIRING IS TO BE INSTALLED IN EMT. CONTRACTOR IS TO PAINT AS DIRECTED BY THE ARCHITECT. CONDUIT PATH IS TO BE AS INCONSPICUOUS AS POSSIBLE. COORDINATE CONDUIT ROUTE WITH ARCHITECT/ OWNER PRIOR TO ROUGH-IN AND INSTALLATION.
- ALL NETWORK, POE, AND IT INFRASTRUCTURE IS TO BE PROVIDED BY THE GENERAL CONTRACTOR.
- ALL CABLE TERMINATIONS, AND CERTIFICATIONS FOR PATCH PANELS ARE TO BE PROVIDED BY THE GENERAL CONTRACTOR.
- POWER, AND DATA/ COAX FOR SECURITY TV, NVR, AND IT EQUIPMENT CLOSET WITH RACKS, AND TERMINATIONS ARE TO BE BY THE GENERAL CONTRACTOR.



NOTICE
THE SCHEDULES AND DRAWINGS REPRESENT ONLY CERTAIN REQUIREMENTS OF THE PROJECT. THERE ARE ADDITIONAL REQUIREMENTS IN THE SPECIFICATIONS BOOKLET WHICH THE CONTRACTOR IS BOUND TO PROVIDE. A SUPPLIER OR CONTRACTOR'S PRICING, WHICH IS BASED ONLY ON DRAWINGS OR SCHEDULES, MAY LEAVE IMPORTANT COSTS UNACCOUNTED FOR WHICH WILL ULTIMATELY BE THE CONTRACTOR OR SUPPLIER'S RESPONSIBILITY TO PROVIDE.

THE DELIVERY OF THIS DRAWING SHOULD NOT BE CONSTRUED TO PROVIDE AN EXPRESS WARRANTY OR GUARANTEE TO ANYONE THAT ALL THE DIMENSIONS AND DETAILS ARE EXACT OR TO INDICATE THAT THE USE OF THIS DRAWING IMPLIES THE REVIEW AND APPROVAL BY THE DESIGN PROFESSIONAL OF ANY FUTURE USE. ANY USE OF THIS INFORMATION WITHOUT THE WRITTEN APPROVAL OF THE DESIGN PROFESSIONAL IS AT THE SOLE RISK AND LIABILITY OF THE USER. THE DESIGN PROFESSIONAL RESERVES THE RIGHT TO REMOVE OUR PROFESSIONAL SEAL AND/OR TITLE BLOCK.

CHESTER UPLAND S.D.
TOBY FARMS INTERMEDIATE SCHOOL, HVAC and WINDOW UPGRADES
201 BRIDGEWATER ROAD
BROOKHAVEN, PA 19015
PARTIAL GROUND FLOOR AREA B - POWER

PROJECT NO: 2022-327
DRAWN BY: RG, DD
DATE: 03/15/2023
SCALE: AS NOTED

McHUGH
ENGINEERING ASSOCIATES INC.
135 Poplar Street, Ambler, PA 19002
1950 Route 100, West Chester, OH 45380
www.mchugh.com
253.641.1188

100% Bid Set - 15 March 2023

Rev. No.	Date	Description
1	10/28/22	SCHEMATIC DESIGN ISSUE
2		
3		
4		
5		
6		
7		

Plans, specifications, reports, documents or other information received on or transmitted as a result of this project, in whole or in part, are the property of the design professional. They are to be used only for the project and site identified herein. They are not to be reproduced, stored in a retrieval system, or transmitted in any form or by any means, electronic, mechanical, photocopying, recording, or by any information storage and retrieval system, without the prior written permission of the design professional. Do not scale drawings.

E201b



- GENERAL POWER AND LOW VOLTAGE NOTES:**
- COORDINATE LOCATIONS AND MOUNTING HEIGHTS OF ALL WIRING DEVICES WITH OWNER/ TENANT/ ARCHITECT PRIOR TO ROUGH-IN. REFER TO DETAILS AND SPECIFICATIONS FOR TYPICAL MOUNTING HEIGHTS.
 - UNLESS OTHERWISE NOTED, BRANCH CIRCUIT NUMBERS ARE VIA EXISTING BRANCH CIRCUITS IN EXISTING PANELS.
 - UNLESS OTHERWISE NOTED, ALL HVAC BRANCH CIRCUIT NUMBERS ARE VIA NEW PANELS AS INDICATED. ALL DISCONNECTING MEANS ASSOCIATED WITH NEW HVAC EQUIPMENT ARE TO BE 30 AMP FRAME/ 15 AMP FUSE.
 - CONTRACTOR IS TO CONCEAL WIRING WHENEVER POSSIBLE. ALL EXPOSED WIRING IS TO BE INSTALLED IN EMT. CONTRACTOR IS TO PAINT AS DIRECTED BY THE ARCHITECT. CONDUIT PATH IS TO BE AS INCONSPICUOUS AS POSSIBLE. COORDINATE CONDUIT ROUTE WITH ARCHITECT/ OWNER PRIOR TO ROUGH-IN AND INSTALLATION.
 - ALL NETWORK, POE, AND IT INFRASTRUCTURE IS TO BE PROVIDED BY THE GENERAL CONTRACTOR.
 - ALL CABLE TERMINATIONS, AND CERTIFICATIONS FOR PATCH PANELS ARE TO BE PROVIDED BY THE GENERAL CONTRACTOR.
 - POWER, AND DATA/ COAX FOR SECURITY TV, NVR, AND IT EQUIPMENT CLOSET WITH RACKS, AND TERMINATIONS ARE TO BE BY THE GENERAL CONTRACTOR.

Rev. No.	Date	Description
1	10/26/22	SCHEMATIC DESIGN ISSUE
2		
3		
4		
5		
6		
7		

Plans, specifications, reports, documents, or other information received on or transmitted as part of this project, including but not limited to, among other things, transmission, conversion, alteration, or such documents are provided for your use only and are not to be used for any other purpose. All drawings, specifications, and related documents are the property of the architect and must be returned to the architect upon completion of the project. No part of these drawings shall be reproduced or transmitted in any form or by any means, electronic, mechanical, photocopying, recording, or by any information storage and retrieval system, without the prior written permission of the architect. Do not scale drawings.



135 Poplar Street, Ambler, PA 19002
1950 Route 100, West Chester, OH 45380
www.mchugheng.com
253.641.1188

100% Bid Set - 15 March 2023

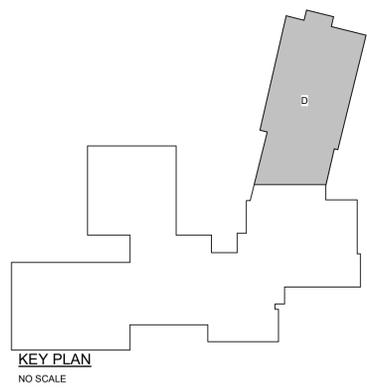
CHESTER UPLAND S.D.
TOBY FARMS INTERMEDIATE SCHOOL, HVAC and WINDOW UPGRADES
201 BRIDGEWATER ROAD
BROOKHAVEN, PA 19015
PARTIAL GROUND FLOOR AREA D - POWER

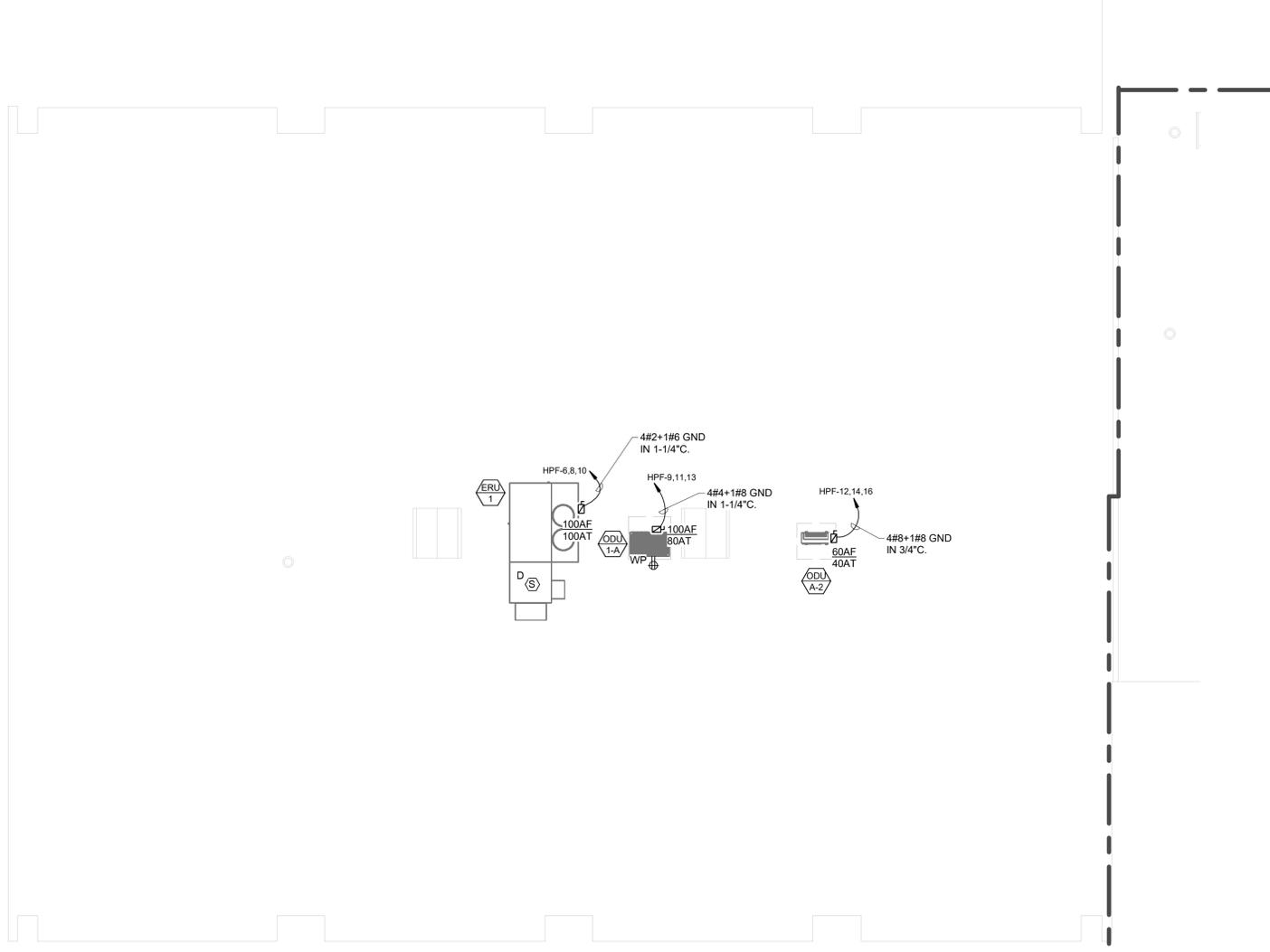
PROJECT NO: 2022-327
DRAWN BY: RG, DD
DATE: 03/15/2023
SCALE: AS NOTED

E201d

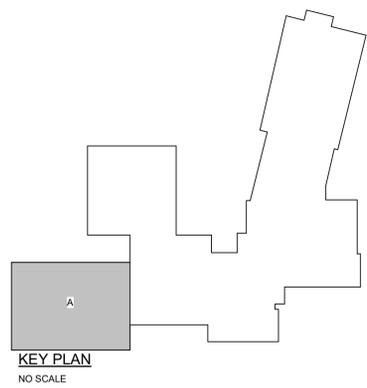
NOTICE
THE SCHEDULES AND DRAWINGS REPRESENT ONLY CERTAIN REQUIREMENTS OF THE PROJECT. THERE ARE ADDITIONAL REQUIREMENTS IN THE SPECIFICATIONS BOOKLET WHICH THE CONTRACTOR IS BOUND TO PROVIDE. A SUPPLIER OR CONTRACTOR'S PRICING, WHICH IS BASED ONLY ON DRAWINGS OR SCHEDULES, MAY LEAVE IMPORTANT COSTS UNACCOUNTED FOR WHICH WILL ULTIMATELY BE THE CONTRACTOR OR SUPPLIER'S RESPONSIBILITY TO PROVIDE.

THE DELIVERY OF THIS DRAWING SHOULD NOT BE CONSTRUED TO PROVIDE AN EXPRESS WARRANTY OR GUARANTEE TO ANYONE THAT ALL THE DIMENSIONS AND DETAILS ARE EXACT OR TO INDICATE THAT THE USE OF THIS DRAWING IMPLIES THE REVIEW AND APPROVAL BY THE DESIGN PROFESSIONAL OF ANY FUTURE USE. ANY USE OF THIS INFORMATION WITHOUT THE WRITTEN APPROVAL OF THE DESIGN PROFESSIONAL IS AT THE SOLE RISK AND LIABILITY OF THE USER. THE DESIGN PROFESSIONAL RESERVES THE RIGHT TO REMOVE OUR PROFESSIONAL SEAL AND/OR TITLE BLOCK.





NORTH
1/8" = 1'-0"
PARTIAL ROOF PLAN AREA A - POWER



NOTICE
THE SCHEDULES AND DRAWINGS REPRESENT ONLY CERTAIN REQUIREMENTS OF THE PROJECT, THERE ARE ADDITIONAL REQUIREMENTS IN THE SPECIFICATIONS BOOKLET WHICH THE CONTRACTOR IS BOUND TO PROVIDE. A SUPPLIER OR CONTRACTOR'S PRICING, WHICH IS BASED ONLY ON DRAWINGS OR SCHEDULES, MAY LEAVE IMPORTANT COSTS UNACCOUNTED FOR WHICH WILL ULTIMATELY BE THE CONTRACTOR OR SUPPLIER'S RESPONSIBILITY TO PROVIDE.

THE DELIVERY OF THIS DRAWING SHOULD NOT BE CONSTRUED TO PROVIDE AN EXPRESS WARRANTY OR GUARANTEE TO ANYONE THAT ALL THE DIMENSIONS AND DETAILS ARE EXACT OR TO INDICATE THAT THE USE OF THIS DRAWING IMPLIES THE REVIEW AND APPROVAL BY THE DESIGN PROFESSIONAL OF ANY FUTURE USE. ANY USE OF THIS INFORMATION WITHOUT THE WRITTEN APPROVAL OF THE DESIGN PROFESSIONAL IS AT THE SOLE RISK AND LIABILITY OF THE USER. THE DESIGN PROFESSIONAL RESERVES THE RIGHT TO REMOVE OUR PROFESSIONAL SEAL AND/OR TITLE BLOCK.

CHESTER UPLAND S.D.
TOBY FARMS INTERMEDIATE SCHOOL, HVAC and WINDOW UPGRADES
201 BRIDGEWATER ROAD
BROOKHAVEN, PA 19015
PARTIAL ROOF PLAN AREA A - POWER

PROJECT NO: 2022-327
DRAWN BY: MG, DD
DATE: 03/15/2023
SCALE: AS NOTED

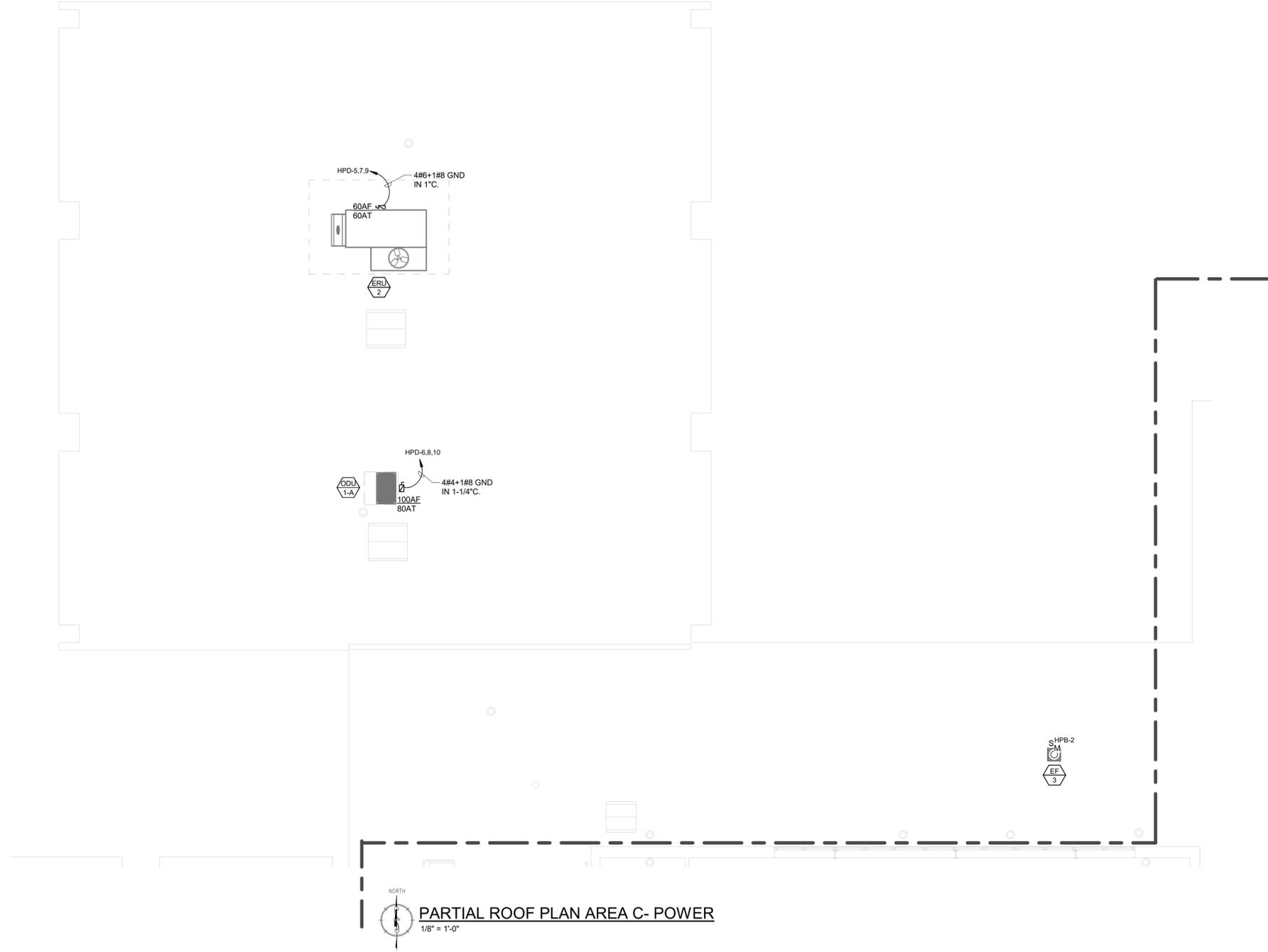
McHUGH
ENGINEERING ASSOCIATES INC.
135 Poplar Street, Ambler, PA 19002
1950 Route 70, Warminster, PA 18951
www.mchugheng.com
215.641.1188

100% Bid Set - 15 March 2023

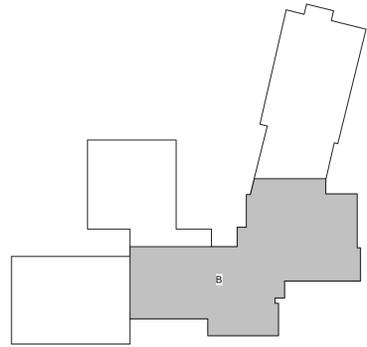
Rev. No.	Date	Description
1	10/26/22	SCHEMATIC DESIGN ISSUE
2		
3		
4		
5		
6		
7		
8		
9		
10		

Do not scale drawings.

E202a



NORTH
PARTIAL ROOF PLAN AREA C - POWER
1/8" = 1'-0"



KEY PLAN
NO SCALE

NOTICE
THE SCHEDULES AND DRAWINGS REPRESENT ONLY CERTAIN REQUIREMENTS OF THE PROJECT. THERE ARE ADDITIONAL REQUIREMENTS IN THE SPECIFICATIONS BOOKLET WHICH THE CONTRACTOR IS BOUND TO PROVIDE. A SUPPLIER OR CONTRACTOR'S PRICING, WHICH IS BASED ONLY ON DRAWINGS OR SCHEDULES, MAY LEAVE IMPORTANT COSTS UNACCOUNTED FOR WHICH WILL ULTIMATELY BE THE CONTRACTOR OR SUPPLIER'S RESPONSIBILITY TO PROVIDE.

THE DELIVERY OF THIS DRAWING SHOULD NOT BE CONSTRUED TO PROVIDE AN EXPRESS WARRANTY OR GUARANTEE TO ANYONE THAT ALL THE DIMENSIONS AND DETAILS ARE EXACT OR TO INDICATE THAT THE USE OF THIS DRAWING IMPLIES THE REVIEW AND APPROVAL BY THE DESIGN PROFESSIONAL OF ANY FUTURE USE. ANY USE OF THIS INFORMATION WITHOUT THE WRITTEN APPROVAL BY THE DESIGN PROFESSIONAL IS AT THE SOLE RISK AND LIABILITY OF THE USER. THE DESIGN PROFESSIONAL RESERVES THE RIGHT TO REMOVE OUR PROFESSIONAL SEAL AND/OR TITLE BLOCK.

- ELECTRICAL ROOF PLAN NOTES:**
- COORDINATE LOCATIONS AND MOUNTING HEIGHTS OF ALL WIRING DEVICES WITH MANUFACTURER'S REQUIREMENTS.
 - UNLESS OTHERWISE NOTED, BRANCH CIRCUIT NUMBERS ARE VIA NEW BRANCH CIRCUIT PANEL(S).

Rev. No.	Date	Description
1	10/28/22	SCHEMATIC DESIGN ISSUE
2		
3		
4		
5		
6		
7		
8		
9		
10		

Plans, specifications, reports, documents, or other information received on or transmitted as a result of this project, including but not limited to, among other things, transmission, conversion, alteration, or all such documents are provided for your use only and are not to be used for any other product nor as a record document. Any reliance on information not intended to be unambiguous and unforgeable. All drawings, specifications, and related documents are copyright of the architect and must be used in accordance with the specifications and related documents in part or in whole without the architect's written permission. Do not scale drawings.



135 Poplar Street, Ambler, PA 19002
1950 Route 70, West Chester, OH 45380
www.mchugheng.com
215.641.1188

100% Bid Set - 15 March 2023

CHESTER UPLAND S.D.
TOBY FARMS INTERMEDIATE SCHOOL, HVAC and WINDOW UPGRADES
201 BRIDGEWATER ROAD
BROOKHAVEN, PA 19015
PARTIAL SECOND FLOOR AREA C - POWER

PROJECT NO: 2022-327
DRAWN BY: RG, DD
DATE: 03/15/2023
SCALE: AS NOTED

E202c



PARTIAL SECOND FLOOR AREA D - POWER
1/8" = 1'-0"

GENERAL POWER AND LOW VOLTAGE NOTES:

- COORDINATE LOCATIONS AND MOUNTING HEIGHTS OF ALL WIRING DEVICES WITH OWNER/ TENANT/ ARCHITECT PRIOR TO ROUGH-IN. REFER TO DETAILS AND SPECIFICATIONS FOR TYPICAL MOUNTING HEIGHTS.
- UNLESS OTHERWISE NOTED, BRANCH CIRCUIT NUMBERS ARE VIA EXISTING BRANCH CIRCUITS IN EXISTING PANELS.
- UNLESS OTHERWISE NOTED, ALL HVAC BRANCH CIRCUIT NUMBERS ARE VIA NEW PANELS AS INDICATED. ALL DISCONNECTING MEANS ASSOCIATED WITH NEW HVAC EQUIPMENT ARE TO BE 30 AMP FRAME/ 15 AMP FUSE.
- CONTRACTOR IS TO CONCEAL WIRING WHENEVER POSSIBLE. ALL EXPOSED WIRING IS TO BE INSTALLED IN EMT. CONTRACTOR IS TO PAINT AS DIRECTED BY THE ARCHITECT. CONDUIT PATH IS TO BE AS INCONSPICUOUS AS POSSIBLE. COORDINATE CONDUIT ROUTE WITH ARCHITECT/ OWNER PRIOR TO ROUGH-IN AND INSTALLATION.
- ALL NETWORK, POE, AND IT INFRASTRUCTURE IS TO BE PROVIDED BY THE GENERAL CONTRACTOR.
- ALL CABLE TERMINATIONS, AND CERTIFICATIONS FOR PATCH PANELS ARE TO BE PROVIDED BY THE GENERAL CONTRACTOR.
- POWER, AND DATA/ COAX FOR SECURITY TV, NVR, AND IT EQUIPMENT CLOSET WITH RACKS, AND TERMINATIONS ARE TO BE BY THE GENERAL CONTRACTOR.

Rev. No.	Date	Description
1	10/26/22	SCHEMATIC DESIGN ISSUE
2		
3		
4		
5		
6		
7		

Plans, specifications, reports, documents, or other information received on or transmitted as part of this project, including but not limited to, among other things, transmission, conversion, alteration, or reproduction of any part of the product, nor as a record document, any reliance on such information shall be deemed to be unenforceable and void. All drawings, specifications, and related documents are the property of the architect and must be returned to the architect upon completion of the project. Specifications and related documents in part or in whole shall remain the property of the architect. Do not scale drawings.



135 Poplar Street, Ambler, PA 19002
1950 Route 100, West Chester, OH 45380
www.mchugheng.com
253.641.1188

100% Bid Set - 15 March 2023

CHESTER UPLAND S.D.
TOBY FARMS INTERMEDIATE SCHOOL, HVAC and WINDOW UPGRADES

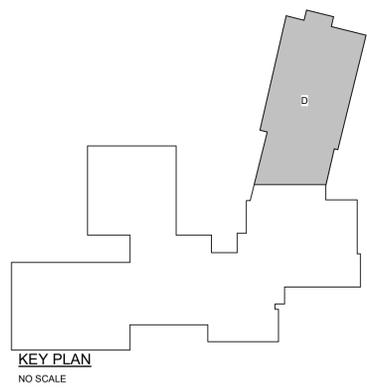
PROJECT NO.: 2022-327
DRAWN BY: MG, DD
DATE: 03/15/2023
SCALE: AS NOTED

201 BRIDGEWATER ROAD
BROOKHAVEN, PA 19015
PARTIAL SECOND FLOOR AREA D - POWER

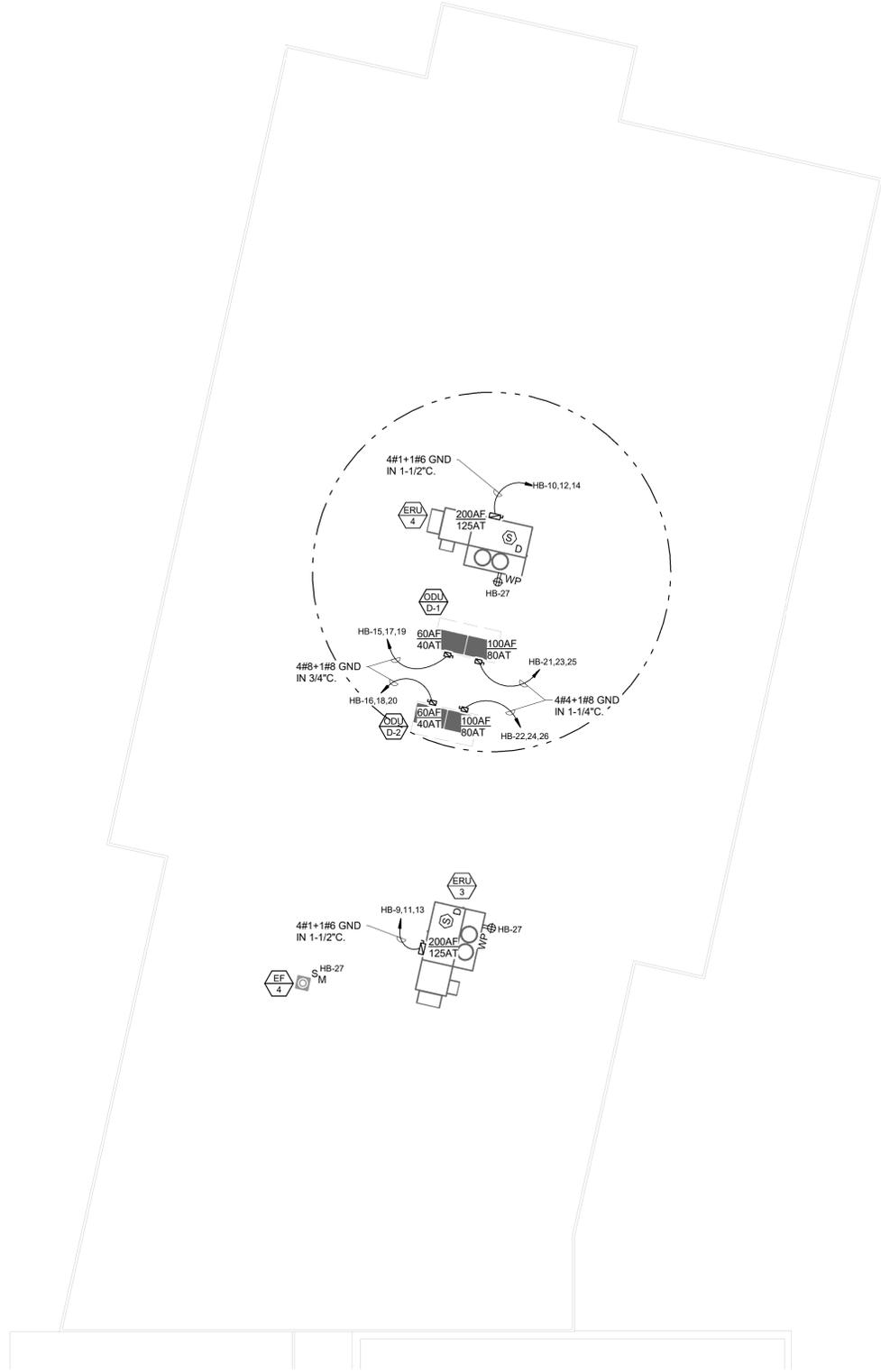
E202d

NOTICE
THE SCHEDULES AND DRAWINGS REPRESENT ONLY CERTAIN REQUIREMENTS OF THE PROJECT. THERE ARE ADDITIONAL REQUIREMENTS IN THE SPECIFICATIONS BOOKLET WHICH THE CONTRACTOR IS BOUND TO PROVIDE. A SUPPLIER OR CONTRACTOR'S PRICING, WHICH IS BASED ONLY ON DRAWINGS OR SCHEDULES, MAY LEAVE IMPORTANT COSTS UNACCOUNTED FOR WHICH WILL ULTIMATELY BE THE CONTRACTOR OR SUPPLIER'S RESPONSIBILITY TO PROVIDE.

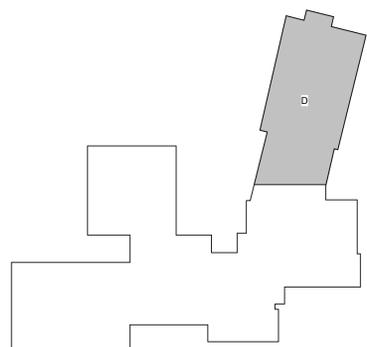
THE DELIVERY OF THIS DRAWING SHOULD NOT BE CONSTRUED TO PROVIDE AN EXPRESS WARRANTY OR GUARANTEE TO ANYONE THAT ALL THE DIMENSIONS AND DETAILS ARE EXACT OR TO INDICATE THAT THE USE OF THIS DRAWING IMPLIES THE REVIEW AND APPROVAL BY THE DESIGN PROFESSIONAL OF ANY FUTURE USE. ANY USE OF THIS INFORMATION WITHOUT THE WRITTEN APPROVAL OF THE DESIGN PROFESSIONAL IS AT THE SOLE RISK AND LIABILITY OF THE USER. THE DESIGN PROFESSIONAL RESERVES THE RIGHT TO REMOVE OUR PROFESSIONAL SEAL AND/OR TITLE BLOCK.



KEY PLAN
NO SCALE



NORTH
PARTIAL ROOF PLAN AREA D- ELECTRICAL
3/32" = 1'-0"



KEY PLAN
NO SCALE

NOTICE
THE SCHEDULES AND DRAWINGS REPRESENT ONLY CERTAIN REQUIREMENTS OF THE PROJECT, THERE ARE ADDITIONAL REQUIREMENTS IN THE SPECIFICATIONS BOOKLET WHICH THE CONTRACTOR IS BOUND TO PROVIDE. A SUPPLIER OR CONTRACTOR'S PRICING, WHICH IS BASED ONLY ON DRAWINGS OR SCHEDULES, MAY LEAVE IMPORTANT COSTS UNACCOUNTED FOR WHICH WILL ULTIMATELY BE THE CONTRACTOR OR SUPPLIER'S RESPONSIBILITY TO PROVIDE.

THE DELIVERY OF THIS DRAWING SHOULD NOT BE CONSTRUED TO PROVIDE AN EXPRESS WARRANTY OR GUARANTEE TO ANYONE THAT ALL THE DIMENSIONS AND DETAILS ARE EXACT OR TO INDICATE THAT THE USE OF THIS DRAWING IMPLIES THE REVIEW AND APPROVAL BY THE DESIGN PROFESSIONAL OF ANY FUTURE USE. ANY USE OF THIS INFORMATION WITHOUT THE WRITTEN APPROVAL BY THE DESIGN PROFESSIONAL IS AT THE SOLE RISK AND LIABILITY OF THE USER. THE DESIGN PROFESSIONAL RESERVES THE RIGHT TO REMOVE OUR PROFESSIONAL SEAL AND/OR TITLE BLOCK.

- ELECTRICAL ROOF PLAN NOTES:**
- COORDINATE LOCATIONS AND MOUNTING HEIGHTS OF ALL WIRING DEVICES WITH MANUFACTURER'S REQUIREMENTS.
 - UNLESS OTHERWISE NOTED, BRANCH CIRCUIT NUMBERS ARE VIA NEW BRANCH CIRCUIT PANEL(S).

CHESTER UPLAND S.D.
TOBY FARMS INTERMEDIATE SCHOOL, HVAC and WINDOW UPGRADES
201 BRIDGEWATER ROAD
BROOKHAVEN, PA 19015
PARTIAL ROOF PLAN AREA D- ELECTRICAL.

PROJECT NO: 2022-327
DRAWN BY: MG, DD
DATE: 03/15/2023
SCALE: AS NOTED

McHUGH
ENGINEERING ASSOCIATES INC.
135 Poplar Street, Ambler, PA 19002
1950 Route 100, Brookhaven, PA 19015
www.mchugheng.com
215.641.1188

100% Bid Set - 15 March 2023

Rev. No.	Date	Description
1	10/26/22	SCHEMATIC DESIGN ISSUE
2		
3		
4		
5		
6		
7		
8		
9		
10		
11		
12		
13		
14		
15		
16		
17		
18		
19		
20		
21		
22		
23		
24		
25		
26		
27		
28		
29		
30		
31		
32		
33		
34		
35		
36		
37		
38		
39		
40		
41		
42		
43		
44		
45		
46		
47		
48		
49		
50		
51		
52		
53		
54		
55		
56		
57		
58		
59		
60		
61		
62		
63		
64		
65		
66		
67		
68		
69		
70		
71		
72		
73		
74		
75		
76		
77		
78		
79		
80		
81		
82		
83		
84		
85		
86		
87		
88		
89		
90		
91		
92		
93		
94		
95		
96		
97		
98		
99		
100		

Plans, specifications, reports, documents, or other information received on or transmitted as a result of this project, including but not limited to, among other things, transmission, conversion, alteration, or such documents are provided for the use of the product for which they were intended and shall not be used for any other purpose. Any reliance on information not intended to be unambiguous and unchangeable. All drawings, specifications, and related documents are the property of the architect and shall be returned to the architect upon completion of the project. Specifications and related documents in part or in whole shall not be reproduced without the architect's written permission. Do not scale drawings.

E203d



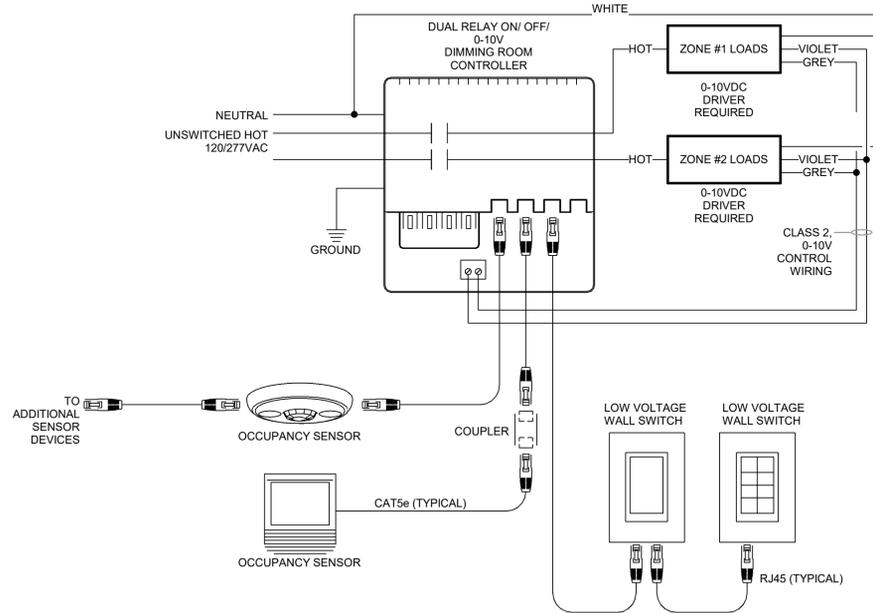
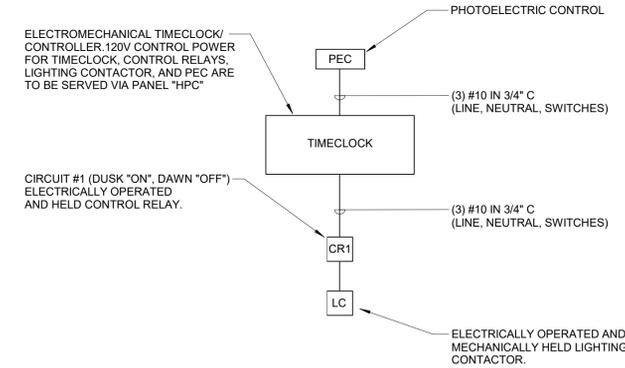


DIAGRAM IS SCHEMATIC ONLY AND DOES NOT REPRESENT ACTUAL DEVICE QUANTITIES. EVERY DEVICE INDICATED MAY NOT BE UTILIZED FOR THIS PROJECT. REFER TO FLOOR PLAN DRAWINGS FOR DEVICE QUANTITIES. REFER ALSO TO SPEC SECTION 28720 FOR FURTHER INFORMATION.

- SEQUENCE OF OPERATION:**
1. DEFAULTS TO MANUAL "ON"/AUTOMATIC "OFF" OPERATION.
 2. AT SYSTEM STARTUP, DEFAULT DIMMING PARAMETERS ARE ESTABLISHED INCLUDING:
 - A. LEVELS FOR PRESET(S).
 - B. FADE TIMES; AND FADE AND RAMP RATES.
 - C. DIMMING AND SYSTEM PARAMETERS MAY BE CUSTOMIZED.
- ROOM CONTROLLER DEVICE IS TO BE MOUNTED IN A CONCEALED, ACCESSIBLE LOCATION.

SINGLE RELAY, 0-10V LIGHTING CONTROL WIRING DIAGRAM
SCALE: NONE



CORRIDOR LIGHTING CONTROL WITH ELECTROMECHANICAL TIMECLOCK
SCALE: NONE

NOTICE
THE SCHEDULES AND DRAWINGS REPRESENT ONLY CERTAIN REQUIREMENTS OF THE PROJECT. THERE ARE ADDITIONAL REQUIREMENTS IN THE SPECIFICATIONS BOOKLET WHICH THE CONTRACTOR IS BOUND TO PROVIDE. A SUPPLIER OR CONTRACTOR'S PRICING, WHICH IS BASED ONLY ON DRAWINGS OR SCHEDULES, MAY LEAVE IMPORTANT COSTS UNACCOUNTED FOR WHICH WILL ULTIMATELY BE THE CONTRACTOR OR SUPPLIER'S RESPONSIBILITY TO PROVIDE.

THE DELIVERY OF THIS DRAWING SHOULD NOT BE CONSTRUED TO PROVIDE AN EXPRESS WARRANTY OR GUARANTEE TO ANYONE THAT ALL THE DIMENSIONS AND DETAILS ARE EXACT OR TO INDICATE THAT THE USE OF THIS DRAWING IMPLIES THE REVIEW AND APPROVAL BY THE DESIGN PROFESSIONAL OF ANY FUTURE USE. ANY USE OF THIS INFORMATION WITHOUT THE WRITTEN APPROVAL OF THE DESIGN PROFESSIONAL IS AT THE SOLE RISK AND LIABILITY OF THE USER. THE DESIGN PROFESSIONAL RESERVES THE RIGHT TO REMOVE OUR PROFESSIONAL SEAL AND/OR TITLE BLOCK.

Rev. No.	Date	Description
1	10/28/22	SCHEMATIC DESIGN ISSUE
2		
3		
4		
5		

Plans, specifications, reports, documents, or other information received on or transmitted as part of this project, including but not limited to, among other things, transmission, conversion, alteration, or other modification of any information, or any such documents are provided for your use only and are not to be used for any other purpose. All drawings, specifications, and related documents are the property of the architect and must be used only for the project for which they were prepared. No part of these specifications and related documents may be reproduced, stored in a retrieval system, or transmitted in any form or by any means, electronic, mechanical, photocopying, recording, or by any information storage and retrieval system, without the prior written permission of the architect. Do not scale drawings.



135 Poplar Street, Ambler, PA 19002
1950 Route 70, Ambler, PA 19002
www.mchugheng.com
215.641.1188

100% Bid Set - 15 March 2023

CHESTER UPLAND S.D.
TOBY FARMS INTERMEDIATE SCHOOL, HVAC and WINDOW UPGRADES
201 BRIDGEWATER ROAD
BROOKHAVEN, PA 19015
DETAILS- ELECTRICAL.

PROJECT NO: 2022-327
DRAWN BY: MG, DD
DATE: 03/15/2023
SCALE: AS NOTED

E403

LUMINAIRE SCHEDULE

LISTED, APPROVED EQUALS: IT IS NOT UNDERSTOOD THAT THIS IMPLIES THAT A STANDARD LUMINAIRE IS ACCEPTABLE. THE LUMINAIRE MUST MEET ALL TECHNICAL REQUIREMENTS AS WELL AS BEING NAMED. ALTERNATE MANUFACTURERS ARE NOT ACCEPTABLE UNLESS APPROVED BY OWNER PRIOR TO THE G.M.P. ISSUE. REFER TO SPECIFICATION SECTION 28 50 00 FOR ADDITIONAL INFORMATION. THE CONTRACTOR IS RESPONSIBLE FOR SELECTING MOUNTING TYPE (SURFACE, RECESSED, LAY-IN, FLANGED, WALL, PENDANT, ETC) UNLESS OTHERWISE NOTED. ALL CCT AND CRI RATINGS ARE TO BE CONSISTENT THROUGH OUT THE LUMINAIRE PACKAGE. ALL DRIVERS ARE TO BE ELECTRONIC WITH 0-10V DIMMING CAPABILITY. ALL LENSES ARE TO BE SHIPPED WITHIN A PROTECTIVE COVERING. EMERGENCY FIXTURES ARE INDICATED AS PARTIALLY SHADED AND/OR WITH AN "E" SUFFIX, FOR EXAMPLE, "4AE".

TAG	DESCRIPTION MANUFACTURER: MODEL NUMBER	LAMP WATTAGE	CCT/ CRI	VOLTAGE	EQUIVALENT MANUFACTURERS
COMMON AREA LUMINAIRES					
A	2'x2' EDGE-LIT LED FLAT PANEL COLUMBIA LIGHTING: CFP22-40/33/2835	40	3500K/ 80	120V	EQUIVALENT MANUFACTURERS
AE	2'x2' EDGE-LIT LED FLAT PANEL WITH EMERGENCY BATTERY PACK COLUMBIA LIGHTING: CFP22-40/33/2835-PLD10M	40	3500K/ 80	120V	EQUIVALENT MANUFACTURERS
B	1'x4' EDGE-LIT LED FLAT PANEL COLUMBIA LIGHTING: CFP14-55/41/3440	50	4000K/ 80	120V	EQUIVALENT MANUFACTURERS
BE	1'x4' EDGE-LIT LED FLAT PANEL WITH EMERGENCY BATTERY PACK COLUMBIA LIGHTING: CFP14-55/41/3440-PLD10M	40	3500K/ 80	120V	EQUIVALENT MANUFACTURERS
C	6"Ø SURFACE MOUNTED LED DOWNLIGHT PRESCOLITE: LBSD-6RD-CS9-WH	11.5	3500K/ 90	120V	EQUIVALENT MANUFACTURERS
DE	4'-0" LED STARWELL LUMINAIRE WITH INTEGRAL OCCUPANCY SENSOR COLUMBIA LIGHTING: ESL-4-35-MW-PP-W-ED-U-ELL14	30.4	3500K/ 80+	120V	EQUIVALENT MANUFACTURERS
F	4'-0" LED STRIP COLUMBIA LIGHTING: CSL4-LSCS	45	3500K/ 80+	120V	EQUIVALENT MANUFACTURERS
H	LED HIGH BAY COLUMBIA LIGHTING: CRB-40MX-EDU	243	4000K/ 80+	120V	EQUIVALENT MANUFACTURERS
P	LED PENDANT/ DIRECT LITE CONTROL: 4L-P-D-16"-08-SOF-C-1-35K-D125-D01-1C-UNV- FA1	10/FT	3500K/ 80+	120V	EQUIVALENT MANUFACTURERS
PE	LED PENDANT/ DIRECT LITE CONTROL: 4L-P-D-16"-08-SOF-C-1-35K-D125-D01-1C-UNV- FA1-2EF	10/FT	3500K/ 80+	120V	EQUIVALENT MANUFACTURERS
EBW	EMERGENCY BATTERY UNIT (WHITE) PROVIDE WIRE GUARD WHERE INDICATED COMPASS: CU2	.56	---	120V	EQUIVALENT MANUFACTURERS
EBB	EMERGENCY BATTERY UNIT (BLACK) COMPASS: CU2B	.56	---	120V	EQUIVALENT MANUFACTURERS
ER	LED REMOTE EMERGENCY HEADS COMPASS: CORD	1	---	120V	EQUIVALENT MANUFACTURERS
X1	LED EXIT SIGN (FACES AND ARROWS AS INDICATED ON PLANS) PROVIDE WIRE GUARD WHERE INDICATED COMPASS: CER	1.8	---	120V	EQUIVALENT MANUFACTURERS
X2	LED EXIT SIGN WITH REMOTE CAPABILITY (FACES AND ARROWS AS INDICATED ON PLANS) PROVIDE WIRE GUARD WHERE INDICATED COMPASS: CERRC	3.6	---	120V	EQUIVALENT MANUFACTURERS

LUMINAIRE SCHEDULE NOTE:

ALL LUMINAIRES EQUIPPED WITH EMERGENCY BACK-UP ARE TO BE PROVIDED WITH REMOTE TEST SWITCH(ES) COORDINATE ALL LOCATIONS WITH THE OWNER.

PANEL SCHEDULE												HA		
PANEL... HA			MAINS: 225 A			ENCLOSURE								
A.I.C. 22,000			MCB: 225 A			NEMA: Type 1								
SERVED VIA MDPA			LUGS: SF			MOUNTIN... SURFACE								
208/120 Wye VOLT			TOP X			BOTTOM:								
CK T	TRIP	POLE	LOAD TYPE	DESCRIPTION/ LOCATION	WATT	A	B	C	WATT	DESCRIPTION/ LOCATION	LOAD TYPE	POLE	TRIP	CK T
1	15 A	2	EQUIPMENT Room	(1) IDU-0.8S / (1) HRB-3 / (2) HRB-4 / (1) IDU-2.5 / (1) IDU-1.25	242				1912	(4) IDU-3	EQUIPMENT Room	2	15 A	2
3	20 A	2	EQUIPMENT Room	101, 133, 131, 12	1912				3000	UH-1	HVAC SERVICE STORAGE 122	2	20 A	4
5	20 A	2	EQUIPMENT Room	133, 130, 131, 132	1912				3000	UH-1	HVAC SERVICE STORAGE 122	2	20 A	6
7	20 A	2	HVAC STAIR 1-A	CUH-1	3000				3000	UH-1	HVAC OUTDOOR STORAGE 118	2	20 A	10
9	20 A	2	HVAC STAIR 2-A	CUH-1	3000				3000	UH-1	HVAC OUTDOOR STORAGE 118	2	20 A	12
11	20 A	2	HVAC STAIR 2-A	CUH-1	3000				3000	UH-1	HVAC OUTDOOR STORAGE 118	2	20 A	14
13	20 A	2	HVAC Boys 117	WH-2	3000				3000	WH-2	HVAC Girls 120	2	20 A	16
15	20 A	2	HVAC Boys 206	CUH-1	3000				3000	WH-2	HVAC Girls 207	2	20 A	18
17	20 A	2	HVAC Boys 206	CUH-1	3000				3000	WH-2	HVAC Girls 207	2	20 A	20
19	20 A	2	HVAC Boys 206	CUH-1	3000				3000	WH-2	HVAC Girls 207	2	20 A	22
21	20 A	2	HVAC Boys 206	CUH-1	3000				3000	WH-2	HVAC Girls 207	2	20 A	24
23	20 A	2	HVAC Boys 206	CUH-1	3000				3000	WH-2	HVAC Girls 207	2	20 A	26
25	20 A	2	HVAC STORAGE	201	3000				3000	HVAC STORAGE	210	2	20 A	28
27	--	1	SPACE		--				--	SPACE		1	--	30
29	--	1	SPACE		--				--	SPACE		1	--	32
31	--	1	SPACE		--				--	SPACE		1	--	34
33	--	1	SPACE		--				--	SPACE		1	--	36
35	--	1	SPACE		--				--	SPACE		1	--	38
37	--	1	SPACE		--				--	SPACE		1	--	40
39	--	1	SPACE		--				--	SPACE		1	--	42
41	--	1	SPACE		--				--	SPACE		1	--	44
TOTAL WATTS					35866 VA					TOTAL AMPS 100 A				

PANEL SCHEDULE												HB		
PANEL... HB			MAINS: 400 A			ENCLOSURE								
A.I.C. 22,000			MCB: 400 A			NEMA: Type 1								
SERVED VIA MDPA			LUGS: SF			MOUNTIN... SURFACE								
208/120 Wye VOLT			TOP X			BOTTOM:								
CK T	TRIP	POLE	LOAD TYPE	DESCRIPTION/ LOCATION	WATT	A	B	C	WATT	DESCRIPTION/ LOCATION	LOAD TYPE	POLE	TRIP	CK T
1	15 A	2	HVAC Room 214, 209, 221, 220	(1) IDU-2.5 / (1) HRB-6 / (1) IDU-1S	276				1931	(3) IDU-3 / (1) IDU-3.5	HVAC Room 219, 220, 221, 222	2	15 A	2
3	15 A	2	HVAC Room 215, 216, 217, 218	(4) IDU-3	1912				--	SPARE		2	15 A	4
5	15 A	2	HVAC Room 215, 216, 217, 218	(4) IDU-3	1912				--	SPARE		2	15 A	6
7	15 A	2	HVAC Room 215, 216, 217, 218	(4) IDU-3	1912				--	SPARE		2	15 A	8
9	125 A	3	HVAC	ERU-3	35300				35300	ERU-4	HVAC	3	125 A	10
11	40 A	3	HVAC	ODU-D-1 MODULE #1	10255				10255	ODU-D-2 MODULE #1	HVAC	3	40 A	12
13	40 A	3	HVAC	ODU-D-1 MODULE #1	10255				10255	ODU-D-2 MODULE #1	HVAC	3	40 A	14
15	40 A	3	HVAC	ODU-D-1 MODULE #1	10255				10255	ODU-D-2 MODULE #1	HVAC	3	40 A	16
17	40 A	3	HVAC	ODU-D-1 MODULE #1	10255				10255	ODU-D-2 MODULE #1	HVAC	3	40 A	18
19	40 A	3	HVAC	ODU-D-1 MODULE #1	10255				10255	ODU-D-2 MODULE #1	HVAC	3	40 A	20
21	80 A	3	HVAC	ODU-D-1 MODULE #2	20834				20834	ODU-D-2 MODULE #2	HVAC	3	80 A	22
23	80 A	3	HVAC	ODU-D-1 MODULE #2	20834				20834	ODU-D-2 MODULE #2	HVAC	3	80 A	24
25	20 A	1	HVAC	EF-4	437				--	SPARE		1	20 A	26
27	20 A	1	SPACE		--				--	SPACE		1	20 A	28
29	20 A	1	SPACE		--				--	SPACE		1	20 A	30
31	--	1	SPACE		--				--	SPACE		1	--	32
33	--	1	SPACE		--				--	SPACE		1	--	34
35	--	1	SPACE		--				--	SPACE		1	--	36
37	--	1	SPACE		--				--	SPACE		1	--	38
39	--	1	SPACE		--				--	SPACE		1	--	40
41	--	1	SPACE		--				--	SPACE		1	--	42
TOTAL WATTS					137334 VA					TOTAL AMPS 381 A				

PANEL SCHEDULE												HPB		
PANEL... HPB			MAINS: 225 A			ENCLOSURE								
A.I.C. 22,000			MCB: 225 A			NEMA: Type 1								
SERVED VIA MDPA			LUGS: SF			MOUNTIN... SURFACE								
208/120 Wye VOLT			TOP X			BOTTOM:								
CK T	TRIP	POLE	LOAD TYPE	DESCRIPTION/ LOCATION	WATT	A	B	C	WATT	DESCRIPTION/ LOCATION	LOAD TYPE	POLE	TRIP	CK T
1	15 A	2	HVAC Room 72, 66A, 62	(2) HRB-3 / (2) IDU-1.5S	235				271	(1) EF-1 / (1) EF-2 / (1) EF-3	HVAC	2	15 A	2
3	25 A	3	HVAC	RTU-1	7089				10255	ODU-B-2	HVAC	3	80 A	4
5	25 A	3	HVAC	RTU-1	7089				10255	ODU-B-2	HVAC	3	80 A	6
7	25 A	3	HVAC	RTU-1	7089				10255	ODU-B-2	HVAC	3	80 A	8
9	15 A	2	HVAC	HP-1C	2558				21968	RTU-2	HVAC	3	90 A	10
11	15 A	2	HVAC	HP-1C	2558				21968	RTU-2	HVAC	3	90 A	12
13	20 A	1	HVAC Boys 55	WH-1	1800				1800	WH-1	HVAC Girls 56	1	20 A	14
15	20 A	1	HVAC Boys 55	WH-1	1800				1800	WH-1	HVAC Girls 56	1	20 A	16
17	15 A	2	SPARE		--				--	SPARE		1	20 A	18
19	15 A	2	SPARE		--				--	SPARE		1	20 A	20
21	--	1	SPACE		--				--	SPACE		1	--	22
23	--	1	SPACE		--				--	SPACE		1	--	24
25	--	1	SPACE		--				--	SPACE		1	--	26
27	--	1	SPACE		--				--	SPACE		1	--	28
29	--	1	SPACE		--				--	SPACE		1	--	30
31	--	1	SPACE		--				--	SPACE		1	--	32
33	--	1	SPACE		--				--	SPACE		1	--	34
35	--	1	SPACE		--				--	SPACE		1	--	36
37	--	1	SPACE		--				--	SPACE		1	--	38
39	--	1	SPACE		--				--	SPACE		1	--	40
41	--	1	SPACE		--				--	SPACE		1	--	42
TOTAL WATTS					45876 VA					TOTAL AMPS 128 A				

PANEL SCHEDULE												HPC		
PANEL... HPC			MAINS: 225 A			ENCLOSURE								
A.I.C. 22,000			MCB: 225 A			NEMA: Type 1								
SERVED VIA MDPA			LUGS: SF			MOUNTIN... SURFACE								
208/120 Wye VOLT			TOP X			BOTTOM:								
CK T	TRIP	POLE	LOAD TYPE	DESCRIPTION/ LOCATION	WATT	A	B	C	WATT	DESCRIPTION/ LOCATION	LOAD TYPE	POLE	TRIP	CK T
1	15 A	2	HVAC	(2) HRB-2 / (5) IDU	669				21698	RTU-3	HVAC	3	90 A	2
3	45 A	3	HVAC	ERU-5	11227				10255	ODU-B-1	HVAC	3	40 A	4
5	20 A	1	HVAC WOMEN...	EBB-2	1000				--	SPARE		1	20 A	6
7	20 A	1	HVAC VEST 144	WH-1	1800				3000	UH-1	HVAC BOILER 71	2	30 A	8
9	40 A	2	HVAC BOILER 71	UH-2	5000				50	TIMECLOCK	EQUIPMENT	1	20 A	10
11	20 A	1	SPARE		--				--	SPARE		1	20 A	12
13	20 A	1	SPARE		--				--	SPARE		1	20 A	14
15	20 A	1	SPARE		--				--	SPARE		1	20 A	16
17	20 A	1	SPARE		--				--	SPARE		1	20 A	18
19	20 A	1	SPARE		--				--	SPARE		1	20 A	20
21	15 A	2	SPARE		--				--	SPARE		1	20 A	22
23	--	1	SPACE		--				--	SPACE		1	--	24
25	--	1	SPACE		--				--	SPACE		1	--	26
27	--	1	SPACE		--				--	SPACE		1	--	28
29	--	1	SPACE		--				--	SPACE		1	--	30
31	--	1	SPACE		--				--	SPACE		1	--	32
33	--	1	SPACE		--				--	SPACE		1	--	34
35	--	1	SPACE		--				--	SPACE		1	--	36
37	--	1	SPACE		--				--	SPACE		1	--	