ADDENDUM NO. 3 **September 1, 2023**

RE: **Grant County Extension Office**
105 Banton Rouge Road
Williamstown, Kentucky 41097
Project No. 20026

FROM: **Brandstetter Carroll Inc.**
2360 Chauvin Drive
Lexington, Kentucky 40517
Phone 859-268-1933
Fax 859-268-3341

TO: **Plan Holders**

This Addendum forms a part of the Re-Bid Documents dated May 26, 2023. Each Bidder shall acknowledge receipt of this Addendum in the space provided on the Bid Form. Failure to do so may subject the Bidder to disqualification.

This Addendum consists of two (2) page and the following attachments:

- Sketch ADD 3.1
- Sketch ADD 3.2
- Full Size Sheet P-102
- Full Size Sheet E-101
- Full Size Sheet E-102
- Full Size Sheet E-601
- Full Size Sheet E-602
- Full Size Sheet E-603

GENERAL

1. The project is non-prevailing wage.

CHANGES TO SPECIFICATIONS:

1. DIVISION 27 - COMMUNICATIONS
    a. Disregard all Division 27 specifications in their entirety. The Owner will be contracting with a third party for these services.

CHANGES TO DRAWINGS:

1. G-101 General Notes & Code Plan

a. All metal stud framing within the building is to be metal.

2. C-102 Site Plan – Layout & Materials
    a. Refer to attached Sketch ADD 3.1
        i. Removed curb/revised to flush curb along entrance plaza. Curb tapers on either end.
        ii. Included tactile warning surface.
        iii. Included bollards to separate drive from pedestrian walkway.

3. C-104 Site Plan – Grading, Drainage, & Utilities
    a. Refer to attached Sketch ADD 3.2
        i. Revised spot grading to reflect a flush curb along entrance plaza.

4. P-102 – Domestic Water Plan
    a. Disregard the original P-101 sheet and replace it with the attached:
        i. 3/4" cold water connection added at exterior of Large Meeting Room 137 for new future connection for Mobile Processing Unit (MPU). Provide with accessible shut off valve above ceiling. Stub water line through wall and cap for future connection.

5. E-101 – Lighting Plan
    a. Disregard the original E-101 sheet and replace it with the attached:
        i. Low voltage control scheme revised for meeting rooms. Refer to revised "G" control scheme for more information. Provide multi-channel low voltage switch for meeting room control.
        ii. The WS4 switch was removed. Provide multi-channel switch to control (3) lighting zones as noted on plans. Zones shall be dimmable with the exception of the LC4-E fixtures.

6. E-102 – Power Plan
    a. Disregard the original E-102 sheet and replace it with the attached:
        i. 200A NEMA 3R disconnect added to exterior wall of Large Meeting Room 137 for future Mobile Processing Unit (MPU) panel.

7. E-601 – Single Line Diagram
    a. Disregard the original E-601 sheet and replace it with the attached:
        i. 200A circuit breaker added to MDP for future Mobile Processing Unit (MPU).

8. E-602 – Electrical Schedules and Legends
    a. Disregard the original E-602 sheet and replace it with the attached:
        i. Low voltage light control scheme "G" revised.

9. E-603 – Electrical Schedules
    a. Disregard the original E-603 sheet and replace it with the attached:
        i. Panel schedule MDP revised for new 200A breaker for future Mobile Processing Unit (MPU).

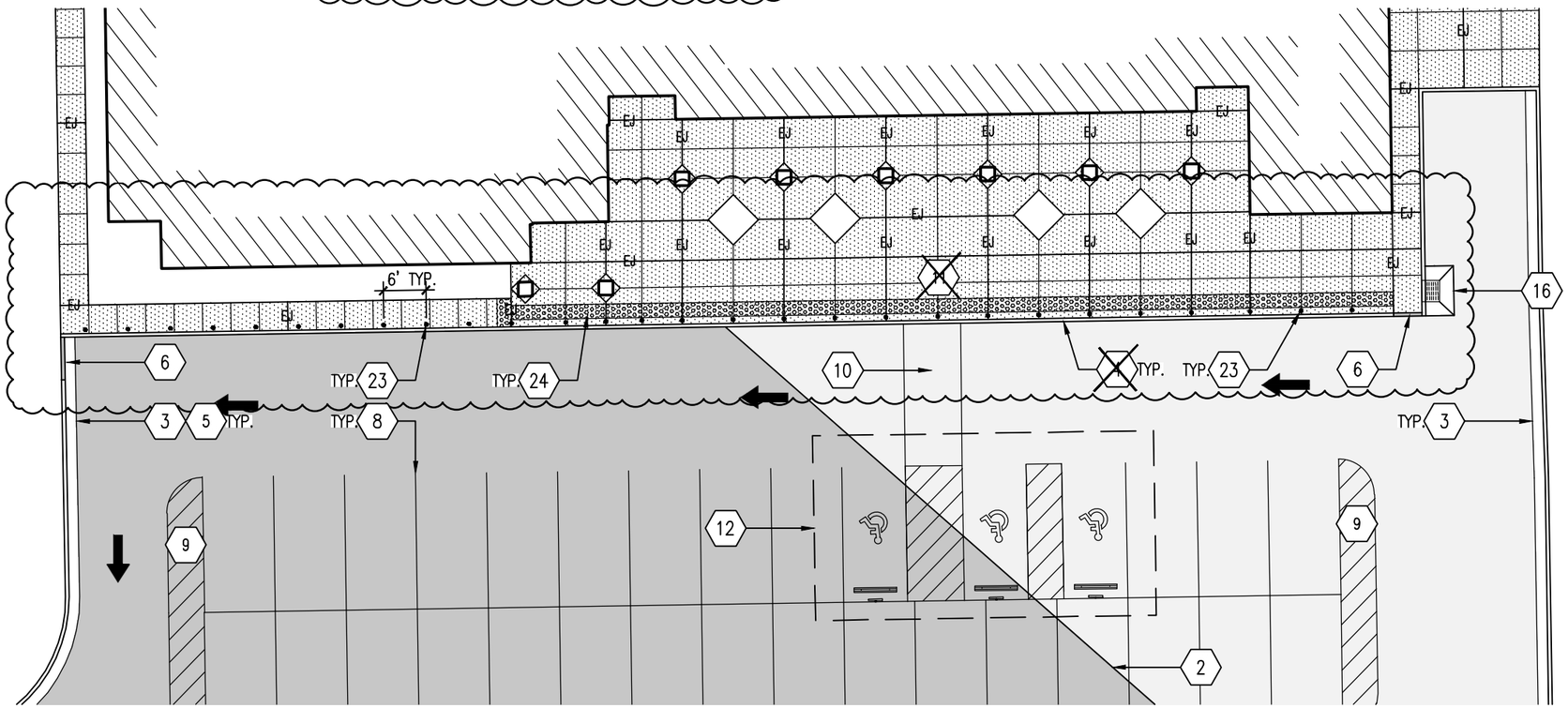
END OF ADDENDUM NO. 3

Coded Notes

1. SAW CUT AND MATCH EXISTING ROAD OR DRIVE ELEVATION.
2. PROPOSED PAVEMENT TO MEET FLUSH WITH EXISTING PAVEMENT. CONTRACTOR TO USE EDGE KEY – SEE A5/C–501.
3. CONCRETE CURB & GUTTER ABUTTING GRASS AREA – SEE B1/C–501.
4. INTEGRAL CURB & SIDEWALK – SEE B2/C–501.
5. CURB & GUTTER TO MEET EDGE OF EXISTING ASPHALT.
6. TAPERED CURB – SEE B4/C–501.
7. CONNECT NEW SIDEWALK TO EXISTING.
8. PARKING STRIPES – 4" TRAFFIC WHITE.
9. FLUSH STRIPED ISLAND, PAINTED WHITE. 4'–0" CENTER TO CENTER OF STRIPING.
10. STRIPE (WHITE THERMOPLASTIC) ACROSS DRIVE PER MUTCD STANDARDS TO MEET ACCESSIBLE RAMP ACROSS DRIVE.
11. ACCESSIBLE RAMP – SEE C2/C–501.
12. HANDICAP PARKING AREA – SEE B5/C–501.
13. CONCRETE DUMPSTER PAD WITH SURROUND – SEE D2/C–501.
14. CONCRETE APRON TO REMAIN.
15. TURNDOWN EDGE OF SIDEWALK ADJACENT TO GRASS AREA – SEE B3/C–501.
16. NEW DRAINAGE STRUCTURE – SEE C–104 FOR ADDITIONAL INFORMATION.
17. SCREENING FENCE – SEE C3/A–506.
18. HAM HOUSE – SEE D1/A–401.
19. WATER & OIL SEPARATOR – SEE P–001.
20. PROPANE TANK – SEE P–001.
21. EXISTING STORM STRUCTURE.
22. STRIPE EXISTING PARKING LOT – 4" TRAFFIC WHITE
23. PIPE BOLLARD – SEE D1/C–501
24. TACTILE WARNING SURFACE – REFER TO SPECIFICATIONS

Legend

- SURFACE COAT ONLY ASPHALT DRIVE – SEE A1/C–501
- FULL DEPTH ASPHALT DRIVE – SEE A2/C–501
- CONCRETE WALK – SEE A4/C–501
- CONCRETE PAD – SEE M–101
- DUMPSTER PAD – SEE A3/C–501
- EJ — CONCRETE WALK EXPANSION JOINT – SEE A4/C–501
- CONCRETE WALK CONTROL JOINT – SEE A4/C–501
- THERMOPLASTIC TRAFFIC ARROW – SEE C5/C–501



Site Plan - Layout & Materials

1"=20'–0"

0 20' 40'

ADD 3.1

BRANDSTETTER CARROLL INC
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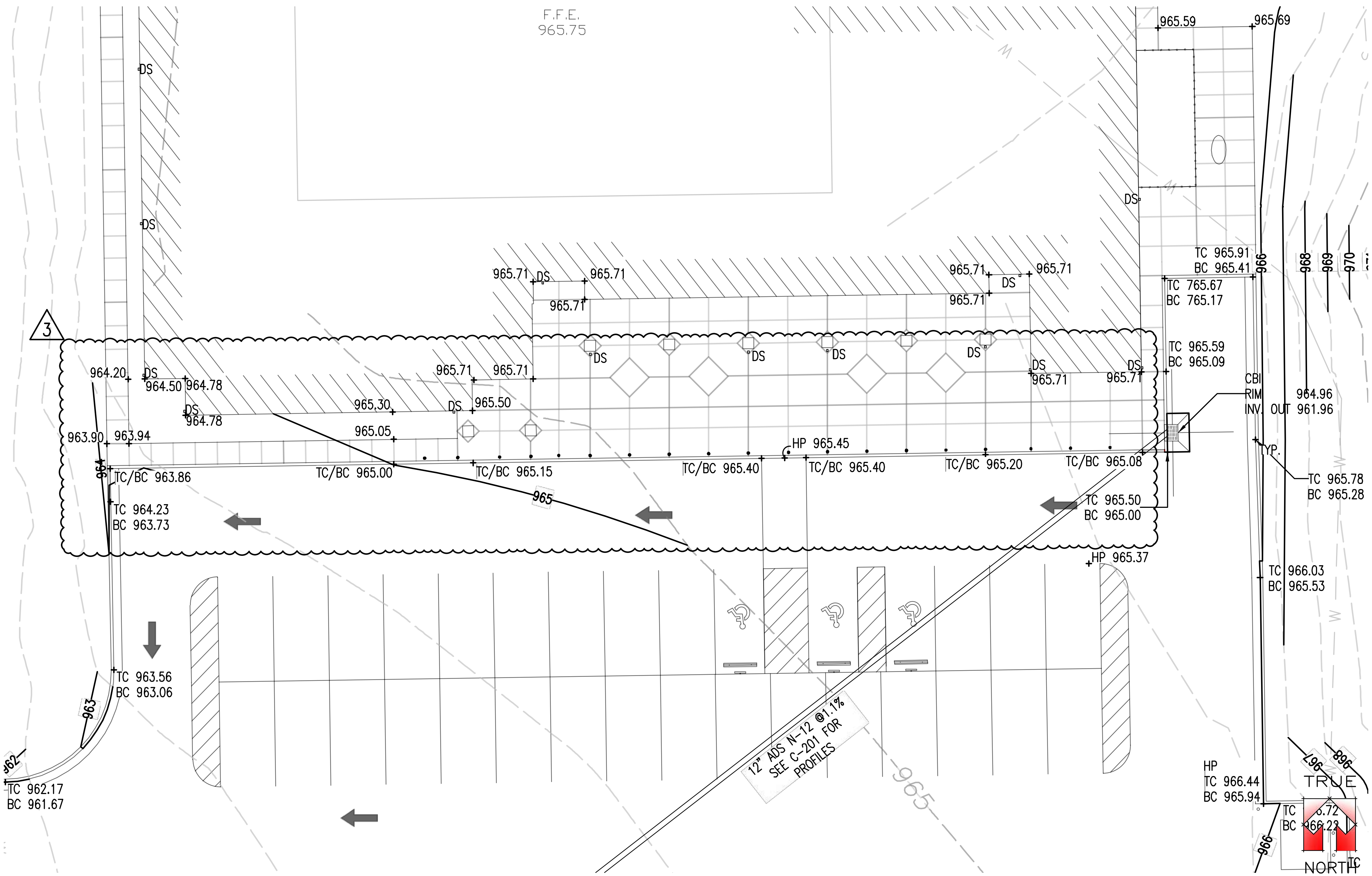
GRANT COUNTY EXTENSION OFFICE
TEMPORARY OFFICE AND NEW PARKING
105 BATON ROUGE RD., WILLIAMSTOWN, KENTUCKY 41097

SITE PLAN - LAYOUT & MATERIALS (PHASE 2)

20026 8-31-23

C-102



Site Plan - Grading, Drainage, & Utilities

1"=20'-0"

0 20' 40'

ADD 3.2

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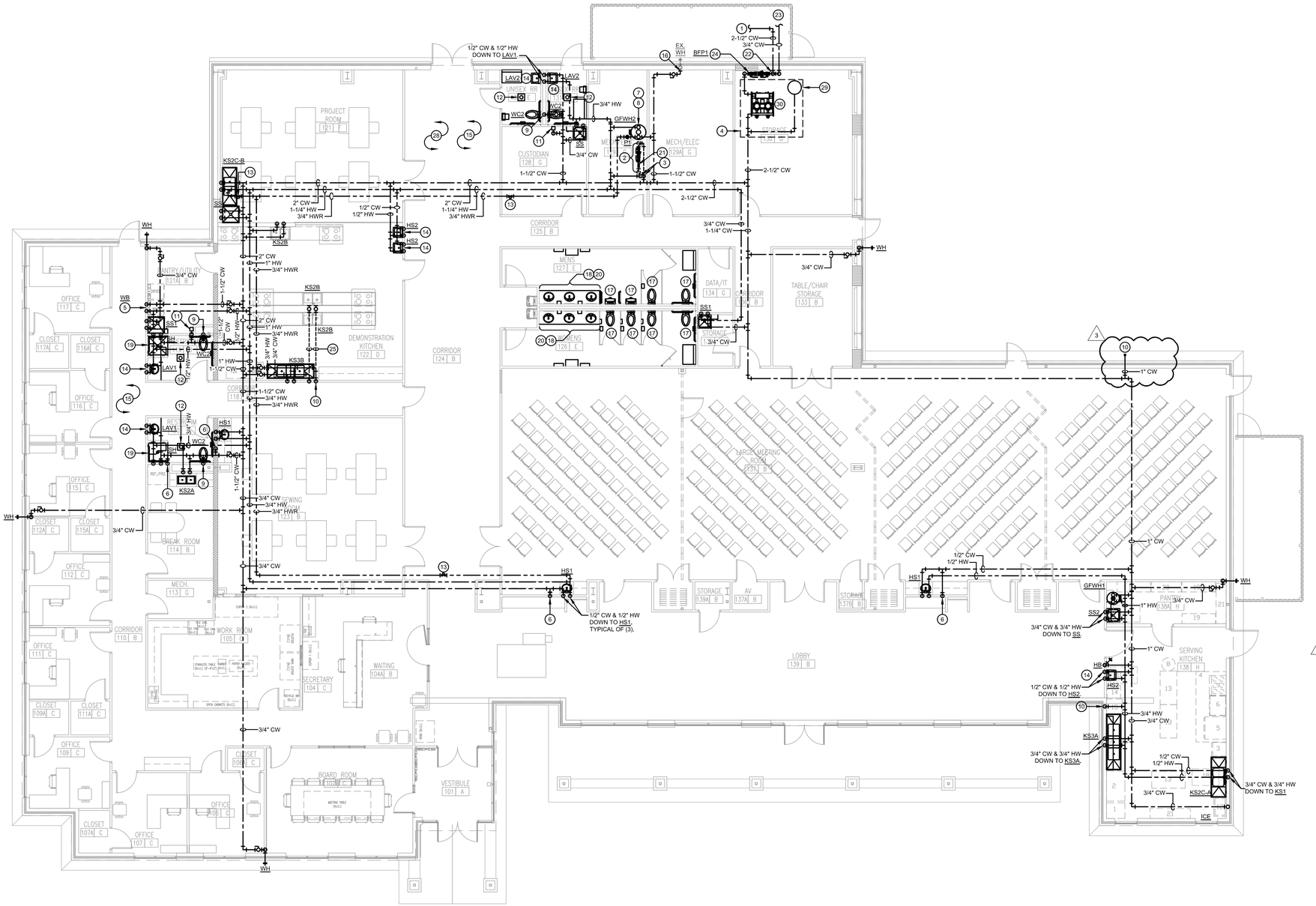
SITE PLAN - GRADING, DRAINAGE, & UTILITIES (PHASE 2)

20026 8-31-23

C-104



1 P-102 HAM HOUSE MECHANICAL PLAN
SCALE: 1/8" = 1'-0"
0' 4' 8' 16'

1 P-102 DOMESTIC WATER PLAN
SCALE: 1/8" = 1'-0"
0' 4' 8' 16'

PLAN NOTES

1	REFER TO C-104 FOR CONTINUATION OF NEW 2-1/2" WATER SERVICE.
2	EXISTING 2" BACKFLOW ASSEMBLY AND METER TO BE REMOVED.
3	EXTEND NEW 2" WATER LINE DOWN WALL AND CAPTURE EXISTING DOMESTIC WATER SUPPLY LINES AT SLAB PENETRATION. EXISTING WATER LINES CONSIST OF (2) 1/2", (2) 3/4", AND (1) 2" LINE. CONTRACTOR TO DETERMINE WHICH SUPPLY LINES ARE HOT AND COLD. CONNECT NEW HOT OR COLD SUPPLY LINE TO ALL WATER SUPPLY LINES SERVING EXISTING PLUMBING FIXTURES. CONTRACTOR TO FIELD VERIFY EXACT PIPE SIZES AND QUANTITY PRIOR TO COMMENCING WORK.
4	NEW DOMESTIC WATER BOOSTER PUMP ASSEMBLY AND REMOTE STORAGE TANK. REFER TO DETAIL ON P-601 FOR SPECIFICATION. INSTALL PER MANUFACTURERS INSTRUCTIONS. MAINTAIN ALL REQUIRED CLEARANCES.
5	PROVIDE WALL BOX EQUAL TO GUY GRAY MODEL # MWBS OR EQUAL. EXTEND 3/4" LINES DOWN WALL. EXTEND 1/2" CW AND 1/2" HW DOWN TO QUARTER TURN VALVES AND CONNECT.
6	EXTEND 1/2" CW SUPPLY TO REFRIGERATOR/ ICE MAKER/ COFFEE MAKER WITH SHUT OFF VALVE ABOVE CEILING. PROVIDE OUTLET BOX EQUAL TO GUY GRAY MODEL # MIB1HAAB.
7	EXISTING WATER HEATER TO BE REPLACED WITH NEW. INSTALL PER MANUFACTURERS INSTRUCTIONS. REFER TO DETAIL A5 ON P-501 FOR MORE INFORMATION AND P-601 FOR SPECIFICATIONS.
8	ROUTE 3/4" T&P RELIEF LINE FROM WATER HEATER TO FLOOR DRAIN.
9	EXTEND 1 1/2" CW DOWN TO (2) WC.
10	PROVIDE 3/4" HW CONNECTION FOR DW.
11	TRAP PRIMER (TP). REFER TO DETAIL B2 ON P-501 FOR MORE INFORMATION.
12	EXTEND 1/2" TYPE K COPPER LINE BACK TO TRAP PRIMER ASSEMBLY IN NEAR BY JANITOR/MECHANICAL ROOM.
13	HOT WATER RETURN BALANCING VALVE.
14	REFER TO DETAIL D2 ON P-501 FOR LAVATORY/SINK PIPE SUPPORT DETAIL. PROVIDE TEMPERING VALVE (TV) AT HAND WASHING SINK. REFER TO PLUMBING FIXTURE SCHEDULE ON P-601 FOR SPECIFICATION.
15	REFER TO DETAIL B4 ON P-501 FOR ADA CLEARANCES AND MOUNTING HEIGHTS FOR PLUMBING FIXTURES.
16	PROVIDE NEW 3/4" CONNECTION TO EXISTING WALL HYDRANT.
17	EXISTING PLUMBING FIXTURE TO REMAIN.
18	EXISTING LAVATORIES AND FAUCETS TO BE REMOVED AND REPLACED WITH SOLID SURFACE WITH INTEGRAL BOWLS. REFER TO PLUMBING FIXTURE SCHEDULE FOR NEW FAUCET SPECIFICATIONS.
19	INSTALL NEW ADA SHOWER PER SPECIFICATIONS ON P-601. SHOWER TO HAVE ADA GRAB BARS AND FOLDING SEAT.
20	CONNECT TO EXISTING DOMESTIC WATER LINES. FIELD VERIFY EXACT LOCATION. PROVIDE ALL CUTTING AND PATCHING REQUIRED.
21	EXISTING METER TO BE REMOVED.
22	NEW DOMESTIC WATER METER. INSTALL PER LOCAL UTILITY COMPANY STANDARDS.
23	ROUTE 3/4" CW LINE UNDERGROUND TO HAM HOUSE.
24	INSTALL NEW BFP1 AND BFP2 PER MANUFACTURERS INSTRUCTIONS IN LOCATION SHOWN. SEE DETAIL A4 ON SHEET P-501 FOR MORE INFORMATION.
25	ROUTE 1/2" CW AND 1/2" HW LINES UNDERSLAB TO KS2A SINKS IN ISLAND. VERIFY WITH CASEWORK EXACT LOCATION OF STUB UPS.
26	3/4" CW FROM BUILDING SUPPLY.
27	INSTALL NEW YH IN CORNER OF HAM HOUSE. FIELD VERIFY EXACT LOCATION TO ENSURE FULL OPERATION OF YH.
28	THE OWNER WILL OCCUPY THE BUILDING DURING CONSTRUCTION. THE CONTRACTOR SHALL ESTABLISH A PHASING PLAN THAT IS ACCEPTABLE TO THE OWNER TO MAINTAIN OPERATIONS.
29	DOMESTIC WATER EXPANSION TANK SHALL BE CHARGED TO PRESSURE SPECIFIED BY MANUFACTURER. COORDINATE PRESSURE NEEDED WITH EQUIPMENT SUPPLIER.
30	NEW DOMESTIC WATER BOOSTER PUMP ASSEMBLY. REFER TO DETAIL ON P-502 FOR MORE INFORMATION.
3 S1	PROVIDE 3/4" COLD WATER STUB THROUGH EXTERIOR WALL FOR FUTURE MPU. PROVIDE WITH SHUTOFF VALVE ABOVE ACCESSIBLE CEILING.

GENERAL NOTE

CONTRACTOR TO VERIFY PROPER DIMENSIONS OF ALL EQUIPMENT PRIOR TO ORDERING TO VERIFY THAT EQUIPMENT WILL HAVE PROPER CLEARANCES IN ACCORDANCE WITH ALL LOCAL AND OTHER CODES AS WELL AS FIT THE SPACE WITHOUT ANY STRUCTURAL OR ARCHITECTURAL MODIFICATIONS.

SHOP DRAWING APPROVAL DOES NOT ELIMINATE CONTRACTOR RESPONSIBILITY OF PROPER CLEARANCES ABOVE.

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STATE OF KENTUCKY
LAWRENCE S. AYER 18127
REGISTERED PROFESSIONAL ENGINEER
EXPIRATION DATE:6/30/2023

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Revisions: 3 Addendum 3, 08/31/2023
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Grant County
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105 Baton Rouge Road
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Domestic Water Plan

Project No. 20026

ADDENDUM 3
P-102

PLAN NOTES

1	ALL NIGHT LIGHTS, EXIT SIGNS AND NOTED EMERGENCY LUMINARIES TO BE WIRED TO LOCAL AREA LIGHTING CIRCUIT, AHEAD OF ANY SWITCHING. FIXTURES ARE TO BE WIRED AS NIGHT LIGHTS. TYPICAL OF ALL ROOMS.
2	EXHAUST FAN PROVIDED AND WIRED BY CONTRACTOR. CONNECT EXHAUST FAN TO LIGHTING CIRCUIT.
3	PROVIDE 120V CIRCUIT AND CONTROL OF UNDER HOOD LIGHTING. LIGHT FIXTURES PROVIDED BY HOOD MANUFACTURER. INSTALL SWITCH IN KITCHEN COUNTER BACKSPLASH.
4	MOUNT PHOTOCELL, FOR CONTROL OF EXTERIOR LIGHTING, ON NORTHEAST SIDE OF BUILDING.
5	PROVIDE CONTINUOUS HOT CIRCUIT TO EMERGENCY LIGHT FIXTURE. FIXTURE SHALL BE SWITCHED BY RELAY PANEL UNDER NORMAL OPERATING CONDITIONS.
6	SWITCH TO BE WET LOCATION RATED.

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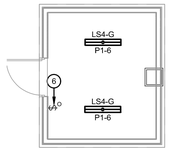
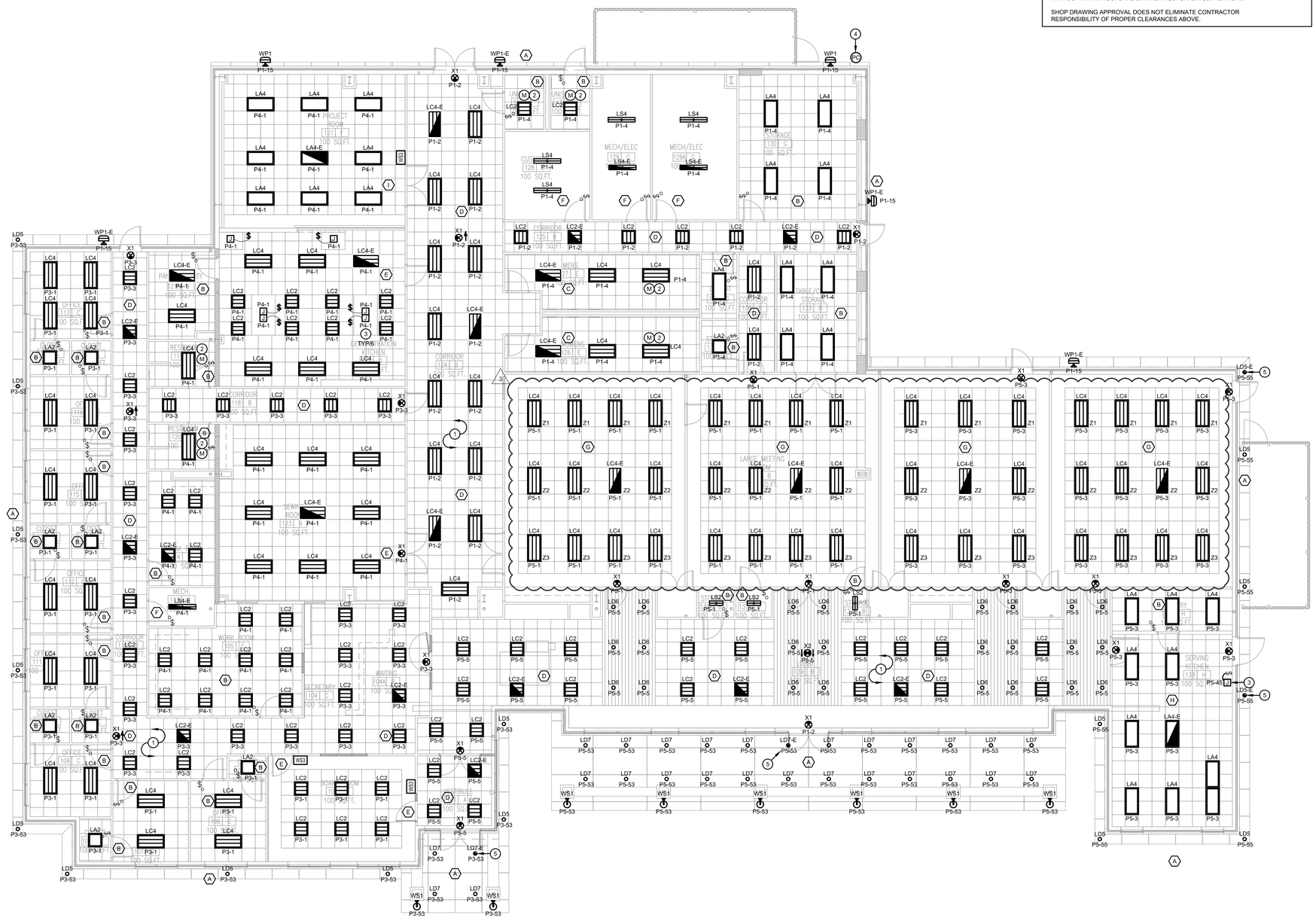


1 E-101 HAM HOUSE LIGHTING PLAN
SCALE: 1/8" = 1'-0"
0' 4' 8' 16'



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SCALE: 1/8" = 1'-0"
0' 4' 8' 16'

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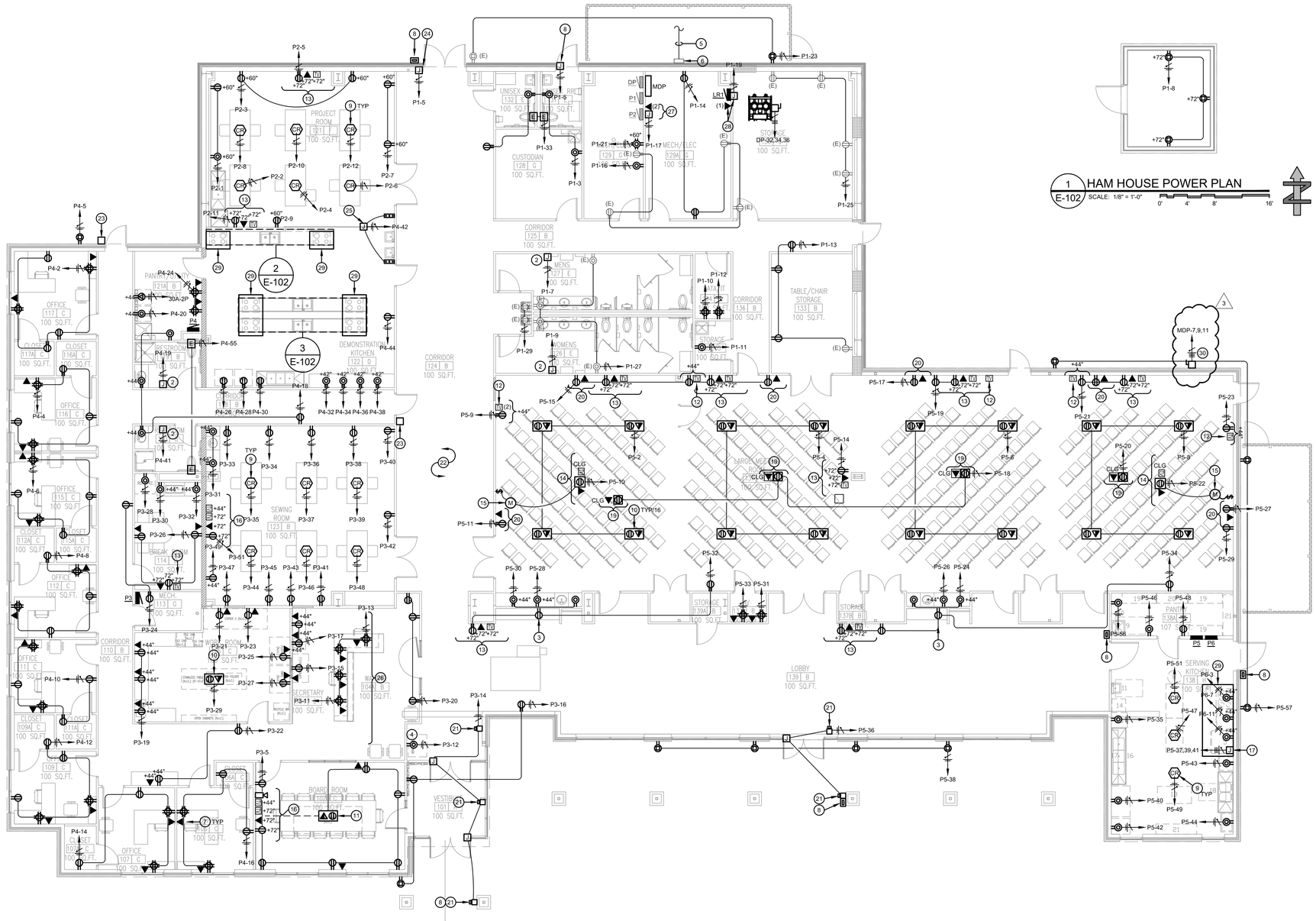
Renovation and Addition
105 Baton Rouge Road
Williamstown, Kentucky 41097

Lighting Plan

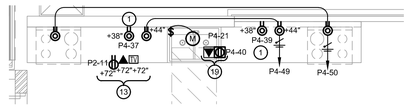
Project No. 20026

ADDENDUM 3
E-101

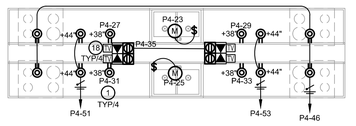


1 E-102 POWER PLAN
SCALE: 1/8" = 1'-0"
0' 4' 8' 16'

1 E-102 HAM HOUSE POWER PLAN
SCALE: 1/8" = 1'-0"
0' 4' 8' 16'



2 E-102 DEMONSTRATION KITCHEN NORTH POWER
SCALE: 1/4" = 1'-0"
0' 2' 4' 8'



3 E-102 DEMONSTRATION KITCHEN ISLAND POWER
SCALE: 1/4" = 1'-0"
0' 2' 4' 8'

PLAN NOTES

1	MICROWAVE TO BE INSTALLED UNDER COUNTERTOP. COORDINATE WITH OWNER AND CASEWORK VENDOR.
2	PROVIDE CONNECTION TO HAND DRYER.
3	PROVIDE RECEPTACLE INSIDE DISPLAY CASE. COORDINATE WITH CASEWORK VENDOR. PROVIDE SWITCH. LOCATION OF SWITCH TO BE DETERMINED BY OWNER.
4	NOT USED.
5	INCOMING ELECTRIC SERVICE. REFER TO SITE PLAN AND RISER DIAGRAM FOR MORE INFORMATION.
6	EXISTING CT CABINET AND METER. REFER TO SINGLE LINE DIAGRAM FOR MORE INFORMATION.
7	ELECTRICAL CONTRACTOR SHALL PROVIDE ALL LOW-VOLTAGE ROUGH-INS AND CONDUITS AS REQUIRED. PROVIDE 1" CONDUIT WITH PULL STRING UP TO ABOVE ACCESSIBLE CEILING.
8	PROVIDE ROUGH-IN FOR CARD READER AT LOCATION SHOWN. STUB A 1" CONDUIT TO ABOVE CEILING WITH PULL STRING. COORDINATE ELECTRIC STRIKE REQUIREMENTS WITH DOOR HARDWARE SCHEDULE ON ARCHITECTURAL PLANS AND WIRING OF THE CARD READER/ELECTRIC STRIKE TO THE SECURITY PANEL WITH THE SECURITY CONTRACTOR..
9	PROVIDE AND INSTALL CORD REEL PLUG WITH TWIST LOCK IN CEILING. COORDINATE EXACT LOCATION WITH ARCHITECT PRIOR TO ROUGH-IN.
10	PROVIDE 1" COMMUNICATION CONDUIT FROM FLOOR BOX TO NEAREST POINT ABOVE ACCESSIBLE CEILING. TYPICAL OF ALL.
11	PROVIDE FLOOR BOX WITH POWER/DATA/HDMI. RUN (1) 1-1/4" CONDUIT WITH PULL STRING FOR HDMI AND (1) 1" CONDUIT WITH PULL STRING FOR DATA FROM FLOOR BOX TO NEAREST POINT ABOVE ACCESSIBLE CEILING TO TV.
12	PROVIDE (2) HDMI ROUGH-INS. RUN (2) 1-1/4" CONDUIT WITH PULL STRING TO ABOVE CEILING.
13	PROVIDE POWER FOR WALL-MOUNTED TV. PROVIDE DATA AND HDMI ROUGH-IN. PROVIDE (1) 1-1/4" CONDUIT WITH PULL STRING FOR HDMI AND (1) 1" CONDUIT WITH PULL STRING FOR DATA. RUN CONDUITS TO ABOVE CEILING.
14	PROVIDE CEILING-MOUNTED POWER FOR PROJECTOR. PROVIDE DATA AND HDMI ROUGH-IN. RUN (1) 1-1/4" CONDUIT FOR HDMI AND (1) 1" CONDUIT FOR DATA TO ABOVE CEILING. PROVIDE PULL STRINGS FOR VENDOR WIRING.
15	PROVIDE CEILING-MOUNTED RETRACTABLE PROJECTOR SCREEN. CONFIRM MAKE AND MODEL WITH ARCHITECT. PROVIDE POWER AND CONTROLS FOR SCREEN. LOCATION OF CONTROLS TO BE DETERMINED BY OWNER.
16	PROVIDE POWER FOR WALL-MOUNTED TV. PROVIDE DATA AND HDMI ROUGH-IN. PROVIDE (1) 1-1/4" CONDUIT WITH PULL STRING FOR HDMI AND (1) 1" CONDUIT WITH PULL STRING FOR DATA. RUN CONDUIT TO HDMI ROUGH-IN BELOW TV FOR DEVICE CONNECTION.
17	PROVIDE HARD WIRED CONNECTION TO ELECTRIC OVEN. COORDINATE WITH EQUIPMENT VENDOR IN FIELD.
18	PROVIDE CEILING-MOUNTED POWER FOR TV. PROVIDE DATA AND HDMI ROUGH-IN. RUN (1) 1-1/4" CONDUIT FOR HDMI AND (1) 1" CONDUIT FOR DATA TO NEAREST POINT ABOVE CEILING TO AV ROOM. PROVIDE PULL STRINGS FOR VENDOR WIRING.
19	PROVIDE POWER FOR CEILING-MOUNTED CAMERA. PROVIDE DATA ROUGH-IN. RUN (1) 1" CONDUIT WITH PULL STRING FOR DATA ABOVE CEILING TO ABOVE CEILING.
20	PROVIDE POWER FOR WALL-MOUNTED CAMERA. PROVIDE DATA ROUGH-IN. RUN (1) 1" CONDUIT WITH PULL STRING FOR DATA TO ABOVE CEILING. CONFIRM ELEVATION WITH ARCHITECT PRIOR TO ROUGH-IN.
21	PROVIDE ALL CONDUITS AND WIRING FOR ADA PUSH BUTTON DOOR OPENER. VERIFY IN FIELD EXACT REQUIREMENTS WITH EQUIPMENT VENDOR.
22	PROVIDE ALL CONDUITS AND WIRING FOR REMOTE ACCESS TO UNLOCK ELECTRIFIED DOORS. COORDINATE ELECTRIC STRIKE REQUIREMENTS WITH DOOR HARDWARE SCHEDULE ON ARCHITECTURAL PLAN AND WIRING/ELECTRIC STRIKE TO THE SECURITY PANEL WITH THE SECURITY CONTRACTOR.
23	PROVIDE ALL CONDUITS AND WIRING FOR KEYPAD. COORDINATE ELECTRIC STRIKE REQUIREMENTS WITH DOOR HARDWARE SCHEDULE ON ARCHITECTURAL PLAN AND WIRING OF THE KEYPAD/ELECTRIC STRIKE TO THE SECURITY PANEL WITH THE SECURITY CONTRACTOR.
24	PROVIDE ALL CONDUITS AND WIRING FOR LOCK ON TIMER WITH KEY OVERRIDE. COORDINATE ELECTRIC STRIKE REQUIREMENTS WITH DOOR HARDWARE SCHEDULE ON ARCHITECTURAL PLAN AND WIRING AND ELECTRIC STRIKE TO THE SECURITY PANEL WITH THE SECURITY CONTRACTOR. PROVIDE (1) 1"CONDUIT FOR DATA.
25	PROVIDE POWER CONNECTION AND WIRE CONTROLS FOR COIL DOOR. VERIFY CONNECTION REQUIREMENTS WITH VENDOR AND INSTALL PER MANUFACTURER'S INSTRUCTIONS.
26	PROVIDE POWER AND DATA ROUGH-IN AT EACH GROMMET ON STUD FACE.
27	PROVIDE POWER AND DATA FOR FIRE ALARM CONTROL PANEL.
28	PROVIDE POWER AND DATA FOR LIGHTING RELAY PANEL.
29	PROVIDE LINE VOLTAGE AND LOW VOLTAGE WIRING TO ALL RANGE HOODS.
30	PROVIDE 200A NEMA-3R DISCONNECT FOR FUTURE PANEL MPV.

3

GENERAL NOTE

CONTRACTOR TO VERIFY PROPER DIMENSIONS OF ALL EQUIPMENT PRIOR TO ORDERING TO VERIFY THAT EQUIPMENT WILL HAVE PROPER CLEARANCES IN ACCORDANCE WITH ALL LOCAL AND OTHER CODES AS WELL AS FIT THE SPACE WITHOUT ANY STRUCTURAL OR ARCHITECTURAL MODIFICATIONS.

SHOP DRAWING APPROVAL DOES NOT ELIMINATE CONTRACTOR RESPONSIBILITY OF PROPER CLEARANCES ABOVE.

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Power Plan

Project No.
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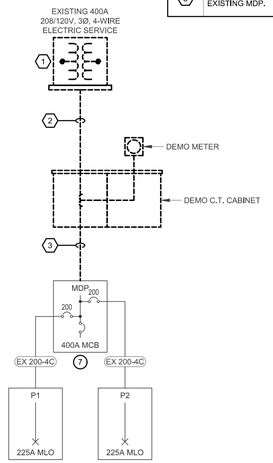
ADDENDUM 3
E-102

DEMO SINGLE LINE NOTES

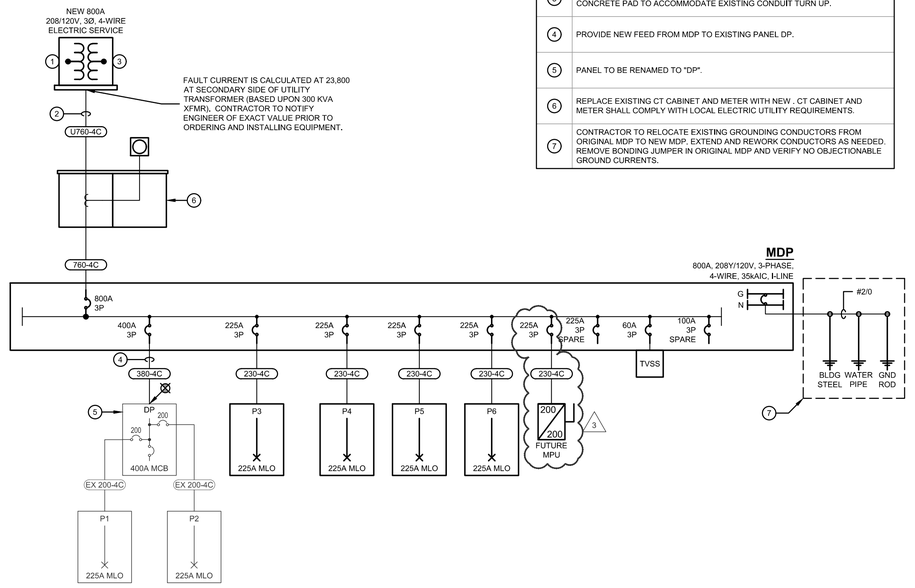
1	EXISTING 150 KVA UTILITY TRANSFORMER AND PAD TO BE REMOVED. COORDINATE WITH LOCAL UTILITY COMPANY.
2	EXISTING SERVICE CONDUCTORS TO BE REMOVED FROM UTILITY TRANSFORMER TO C.T. CABINET IN MECH/ELEC ROOM 129.
3	EXISTING SERVICE CONDUCTORS TO BE REMOVED FROM C.T. CABINET TO EXISTING MDP.



1 DEMO SINGLE LINE DIAGRAM
E-601 SCALE: NONE

NEW SINGLE LINE NOTES

1	NEW UTILITY TRANSFORMER AT LOCATION OF EXISTING TRANSFORMER. PROVIDE WITH NEW CONCRETE PAD AS REQUIRED TO COMPLY WITH LOCAL UTILITY COMPANY STANDARDS.
2	PROVIDE NEW SERVICE CONDUCTORS AND CONDUIT.
3	CAPTURE AND REUSE EXISTING PRIMARY CONDUIT AND WIRE, ARRANGE NEW CONCRETE PAD TO ACCOMMODATE EXISTING CONDUIT TURN UP.
4	PROVIDE NEW FEED FROM MDP TO EXISTING PANEL DP.
5	PANEL TO BE RENAMED TO "DP".
6	REPLACE EXISTING CT CABINET AND METER WITH NEW . CT CABINET AND METER SHALL COMPLY WITH LOCAL ELECTRIC UTILITY REQUIREMENTS.
7	CONTRACTOR TO RELOCATE EXISTING GROUNDING CONDUCTORS FROM ORIGINAL MDP TO NEW MDP. EXTEND AND REWORK CONDUCTORS AS NEEDED. REMOVE BONDING JUMPER IN ORIGINAL MDP AND VERIFY NO OBJECTIONABLE GROUND CURRENTS.



2 NEW SINGLE LINE DIAGRAM
E-601 SCALE: NONE

SINGLE LINE FEEDER SCHEDULE

15-3C	(3) #14 CU AND (1) #14 CU GND IN 1/2" CONDUIT
70-3C	(3) #4 CU AND (1) #8 CU GND IN 1" CONDUIT
EX 200-4C	EXISTING (4) #3/0 CU AND (1) #6 CU GND IN 2-1/2" CONDUIT
200-4C	(4) #3/0 CU AND (1) #6 CU GND IN 2-1/2" CONDUIT
230-4C	(4) #4/0 CU AND (1) #4 CU GND IN 2-1/2" CONDUIT
380-4C	(4) #500 kcmil CU AND (1) #3 CU GND IN 4" CONDUIT
U760-4C	(2) SETS OF (4)#500 kcmil CU IN 4" CONDUIT EACH SET, PROVIDE (1) 4" SPARE.
760-4C	(2) SETS OF (4)#500 kcmil CU & (1)#1 AWG CU GND. IN 3" CONDUIT EACH SET

FEEDER SCHEDULE GENERAL NOTES
- FEEDERS DENOTED BY A "*" HAVE BEEN OVERSIZED TO COMPENSATE FOR VOLTAGE DROP
- "CU" = COPPER CONDUCTOR
- "AL" = ALUMINUM CONDUCTOR

NOTE: WHEN "3C" IS USED IN LIEU OF "4C" A NEUTRAL CONDUCTOR IS NOT REQUIRED.

GENERAL NOTES - RISER DIAGRAM

A. PARALLEL FEEDER CONDUCTORS SHALL BE CUT TO THE EXACT SAME LENGTHS AND SHALL BE FROM THE SAME FACTORY RUN. ALL CONNECTIONS FOR SAME WORK SHALL BE TORQUED TO IDENTICAL VALUES.

B. EXTERIOR ELECTRICAL WORK SHALL NOT ONLY BE WEATHERPROOF AND WATER TIGHT, BUT SHALL BE RUST RESISTANT.

C. CONDUCTORS BELOW GRADE OR SUBJECT TO MOISTURE SHALL BE 'XHHW-2'.

D. PROVIDE FACTORY SERIES COORDINATION FOR ALL CIRCUIT BREAKERS. (INCLUDING ALL BRANCH BREAKERS). RELATIVE TO "UPSTREAM" BREAKERS, SO THAT ONLY THE BREAKER CLOSEST IN THE CIRCUIT TO THE LOAD TRIPS UPON AN OVERLOAD OF FAULT CONDITION.

E. POWER DISTRIBUTION EQUIPMENT SUPPLIER SHALL PROVIDE APPROPRIATELY RATED AND BRACED TO ACCOMMODATE THE AVAILABLE FAULT CURRENT AT THE UTILITY COMPANY TRANSFORMER SECONDARIES. THIS SUPPLIER SHALL ACCORDINGLY PROVIDE ANY RELATED CALCULATIONS SO THAT THEIR EQUIPMENT IS PROPERLY COORDINATED FOR THE AVAILABLE FAULT CURRENT. THE ELECTRICAL CONTRACTOR SHALL PROVIDE THIS SUPPLIER WITH COPIES OF THE ELECTRICAL DOCUMENTS AS REQUIRED SO THAT PROPERLY RATED/BRACED EQUIPMENT IS PROVIDED UNDER BASE BID.

F. GROUNDING ELECTRODE CONDUCTORS SHALL BE PROVIDED IN STRICT COMPLIANCE WITH NEC, INCLUDING ARTICLE 250 AND TABLE 250-66. THESE CONDUCTORS MAY NOT BE INDICATED ON RISERS OR SINGLE LINE DIAGRAMS, BUT SHALL BE PROVIDED UNDER BASE BID NEVERTHELESS.

G. EQUIPMENT GROUNDING CONDUCTORS SHALL BE PROVIDED IN STRICT COMPLIANCE WITH NEC, INCLUDING ARTICLE 250 AND TABLE 250-122. THESE CONDUCTORS MAY NOT BE INDICATED ON RISERS OR SINGLE LINE DIAGRAMS, BUT SHALL BE PROVIDED UNDER BASE BID NEVERTHELESS.

H. WORKING CLEARANCES SHALL BE PROVIDED FOR ALL ELECTRICAL EQUIPMENT (SWITCHBOARDS, PANELBOARDS, TRANSFORMERS, STARTERS, DISCONNECTS, ETC. AS APPLICABLE) IN STRICT COMPLIANCE WITH NEC CHAPTER 1, PART B SECTION 110-25(a). LOCATIONS SHOWN ON THE FLOOR PLANS ARE SCHEMATIC AND DIAGRAMMATIC IN NATURE. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING COMPLIANCE WITH THE ABOVE NEC REFERENCE. THIS REQUIREMENTS APPLIES TO EQUIPMENT ON FLOOR PLANS AS WELL AS TO EQUIPMENT SHOWN ON THE RISER.

I. HOLD ALL NEW OVERHEAD ELECTRICAL WORK AS TIGHT AS POSSIBLE TO THE BOTTOM OF THE OVERHEAD STRUCTURE. LOCATE ANY RELATED PULL BOXES SO THAT THEY WILL BE FULLY ACCESSIBLE AFTER ALL CONSTRUCTION WORK IS COMPLETE. AS WITH ALL WORK, COORDINATE IN ADVANCE WITH OTHER TRADES.

J. ROUTE FEEDER CONDUITS BELOW GRADE WHEREVER POSSIBLE. VERY LIMITED SPACE EXISTS ABOVE ACOUSTICAL TILE CEILINGS AND MANY, IF NOT MOST, OF THE SPACE ABOVE GYPSUM BOARD CEILINGS IS NOT AVAILABLE FOR RUNNING CONDUIT. STUDY ALL ARCHITECTURAL, STRUCTURAL AND MECHANICAL DRAWINGS VERY CAREFULLY BEFORE LAYING OUT FEEDER ROUTES.

K. ALL PANELS HAVE NEMA 1 ENCLOSURES UNLESS OTHERWISE NOTED.

L. ALL PANELS ARE SURFACE MOUNTED UNLESS OTHERWISE NOTED.

M. ALL EQUIPMENT SHALL BE FULLY RATED. SERIES RATED EQUIPMENT IS NOT ACCESSIBLE.

SINGLE LINE SYMBOL LEGEND

	CIRCUIT BREAKER
	UTILITY METER
	NON-FUSED DISCONNECT
	FUSIBLE DISCONNECT
	PANELBOARD, MAIN LUG ONLY WITH FEED THROUGH LUGS Y= RATING X= NAME
	PANELBOARD, MAIN LUGS ONLY Y= MAIN LUGS RATING X = NAME
	PANELBOARD, MAIN CIRCUIT BREAKER Y = MCB RATING X = NAME
M	MOTOR - THREE PHASE Z = HP RATING

TEMPORARY ELECTRICAL POWER

THE CONTRACTOR SHALL PROVIDE TEMPORARY POWER AS NEEDED TO ACCOMMODATE BUILDING OPERATIONS AND CONSTRUCTION WHILE THE EXISTING SERVICE IS DEMOLISHED AND THE NEW PERMANENT SERVICE INSTALLED.

IT IS THE ELECTRICAL CONTRACTOR'S RESPONSIBILITY TO COORDINATE TEMPORARY SERVICE WITH THE LOCAL UTILITY.

THE BUILDING SHALL REMAIN OPERATIONAL THROUGHOUT THE CONSTRUCTION PROCESS.

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REGISTERED PROFESSIONAL ENGINEER
EXPIRATION DATE:6/30/2023

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Grant County
Extension Office
Renovation and Addition
105 Baton Rouge Road
Williamstown, Kentucky 41097

Single Line Diagram

Project No.
20026

ADDENDUM 3
E-601

PROJECT GENERAL NOTES

1. THE DRAWINGS ARE DIAGRAMMATIC ONLY AND INDICATE THE GENERAL ARRANGEMENT OF THE SYSTEMS AND ARE TO BE FOLLOWED INSOFAR AS POSSIBLE. IF DEVIATIONS FROM THE LAYOUTS ARE NECESSITATED BY FIELD CONDITIONS, DETAILED LAYOUTS OF THE PROPOSED DEPARTURES SHALL BE SUBMITTED IN WRITING TO THE ENGINEER FOR REVIEW BEFORE PROCEEDING WITH THE WORK.
2. THE ELECTRICAL CONTRACTOR SHALL REVIEW ALL DRAWINGS IN DETAIL AS THEY MAY RELATE TO THEIR WORK.
3. EACH CONTRACTOR SHALL INSPECT THE SITE ON WHICH THE WORK IS TO BE PERFORMED, AND THE OBSTACLES THAT MAY BE ENCOUNTERED, AND ALL RELEVANT MATTERS CONCERNING THE WORK.
4. THE CONTRACTOR SHALL FILE ALL NECESSARY NOTICES, OBTAIN AND PAY FOR ALL PERMITS, FEES, AND OTHER COSTS INCLUDING UTILITY CONNECTIONS OR EXTENSION, IN CONNECTION WITH HIS WORK. AS NECESSARY, HE SHALL FILE ALL REQUIRED PLANS, PREPARE ALL DOCUMENTS AND OBTAIN ALL NECESSARY APPROVALS OF ALL UTILITY AND GOVERNMENTAL DEPARTMENTS HAVING JURISDICTION.
5. IGNORANCE OF CODES, RULES, AND REGULATIONS, UTILITY COMPANY REQUIREMENTS, LAWS, ETC. SHALL NOT DIMINISH OR ABSOLVE CONTRACTOR'S RESPONSIBILITIES TO PROVIDE AND COMPLETE ALL WORK IN COMPLIANCE WITH SUCH.
6. ALL MATERIALS FURNISHED AND ALL WORK INSTALLED SHALL COMPLY WITH THE CURRENT EDITION OF THE KENTUCKY MECHANICAL CODES, NATIONAL FIRE CODES OF THE NATIONAL FIRE PROTECTION ASSOCIATION AND WITH THE REQUIREMENTS OF ALL GOVERNMENTAL AGENCIES OR DEPARTMENTS HAVING JURISDICTION.

LIGHTING CONTROLS SCHEME:

(A) EXTERIOR LIGHTS:
1. FIXTURES CONTROLLED VIA PHOTOCELL(S). PROVIDE PHOTOCELL(S) AS REQUIRED TO CONTROL ALL EXTERIOR LIGHTS.

(B) PRIVATE OFFICES, BREAK ROOMS, SMALL RESTROOMS AND STORAGE CLOSETS:
1. FIXTURES CONTROLLED VIA VACANCY SENSORS IN ROOM, VACANCY SENSOR SHALL TURN LIGHTS ON UPON MANUAL ACTIVATION OF VACANCY WALL SENSOR IN ROOM.
2. LIGHTS SHALL REMAIN ON UNTIL VACANCY SENSOR DETECTS NO OCCUPANCY, DURATION OF NO OCCUPANCY SHALL BE ADJUSTABLE (5 TO 30 MINUTES) AND DEFAULT TO 10 MINUTES.
3. LOCAL WALL STATION SHALL SERVE AS LOCAL DIMMING AND ON/OFF CONTROL OVERRIDE WHILE THE ROOM IS OCCUPIED.

(C) LARGE RESTROOMS:
1. FIXTURES CONTROLLED VIA CEILING MOUNTED OCCUPANCY SENSORS IN ROOM. OCCUPANCY SENSOR SHALL TURN LIGHTS ON UPON DETECTION OF OCCUPANCY IN ROOM. PROVIDE SENSORS AS NEEDED FOR COMPLETE COVERAGE OF AREA.
2. LIGHTS SHALL REMAIN ON UNTIL OCCUPANCY SENSOR DETECTS NO OCCUPANCY, DURATION OF NO OCCUPANCY SHALL BE ADJUSTABLE (5 TO 30 MINUTES) AND DEFAULT TO 15 MINUTES.

(D) CORRIDORS:
1. FIXTURES CONTROLLED BY TIME OF DAY SCHEDULE, VIA LIGHTING CONTROL SYSTEM TIME CLOCK, NORMAL BUSINESS HOURS TO BE SET BY OWNER.
2. PROVIDE OCCUPANCY SENSORS AS REQUIRED FOR COMPLETE COVERAGE OF AREA.
3. DURING "AFTER HOURS" OCCUPANCY, LOCAL LOW VOLTAGE CEILING MOUNT OCCUPANCY SENSOR SENSORS SHALL TURN LIGHTS ON UPON DETECTION OF OCCUPANCY, LIGHTS SHALL REMAIN ON UNTIL OCCUPANCY SENSORS DETECT NO OCCUPANCY. DURATION OF NO OCCUPANCY SHALL BE ADJUSTABLE (5 TO 30 MINUTES) AND DEFAULT TO 30 MINUTES.
4. NIGHT LIGHTS TO BE WIRED TO LOCAL AREA LIGHTING CIRCUIT, AHEAD OF ANY SWITCHING.

(E) SMALL CONFERENCE ROOMS:
1. FIXTURES CONTROLLED VIA CEILING MOUNTED VACANCY SENSORS IN ROOM, LIGHTS SHALL TURN ON UPON MANUAL ACTIVATION OF WALL STATION IN ROOM. PROVIDE SENSORS AS REQUIRED FOR COMPLETE COVERAGE OF AREA.
2. LIGHTS SHALL REMAIN ON UNTIL VACANCY SENSOR DETECTS NO OCCUPANCY, DURATION OF NO OCCUPANCY SHALL BE ADJUSTABLE (5 TO 30 MINUTES) AND DEFAULT TO 5 MINUTES.
3. WALL STATION SHALL HAVE AUDIBLE NOTIFICATION ~~1 MINUTE~~ PRIOR TO LIGHTS TURNING OFF.

(G) LARGE MEETING ROOMS
1. FIXTURES CONTROLLED VIA CEILING MOUNTED VACANCY SENSORS. LIGHTS SHALL TURN ON UPON MANUAL ACTIVATION OF MULTI-CHANNEL SWITCH.
2. MULTI-CHANNEL SWITCH SHALL ALLOW USER TO TURN LIGHTS ON/OFF AND DIM LIGHT LEVELS DURING ALL HOURS.
3. FIXTURES SHALL BE ZONED PER LAYOUT ON PLAN NOTED BY Z#.
4. LIGHTS SHALL REMAIN ON UNTIL VACANCY SENSOR DETECTS NO OCCUPANCY, DURATION OF NO OCCUPANCY SHALL BE ADJUSTABLE (5 TO 30 MINUTES) AND DEFAULT TO 30 MINUTES.

1

(H) KITCHEN:
1. FIXTURES CONTROLLED VIA CEILING-MOUNTED OCCUPANCY SENSOR IN ROOM. OCCUPANCY SENSOR SHALL TURN LIGHTS ON UPON DETECTION OF OCCUPANCY IN ROOM.
2. LIGHTS SHALL REMAIN ON UNTIL OCCUPANCY SENSOR DETECTS NO OCCUPANCY, DURATION OF NO OCCUPANCY SHALL BE ADJUSTABLE (5 TO 30 MINUTES) AND DEFAULT TO 20 MINUTES.

(I) PROJECT ROOM:
1. FIXTURES CONTROLLED VIA CEILING MOUNTED VACANCY SENSORS IN ROOM. LIGHTS SHALL TURN ON UPON MANUAL ACTIVATION OF WALL STATION IN ROOM. PROVIDE SENSORS AS REQUIRED FOR COMPLETE COVERAGE OF AREA. WALL STATION AND SENSORS TO BE WET LOCATION RATED.
2. LIGHTS SHALL REMAIN ON UNTIL VACANCY SENSOR DETECTS NO OCCUPANCY, DURATION OF NO OCCUPANCY SHALL BE ADJUSTABLE (5 TO 30 MINUTES) AND DEFAULT TO 15 MINUTES.

LIGHT FIXTURE SCHEDULE

SYMBOL	ID	DESCRIPTION	FIXTURE INFORMATION		ELECTRIC INFORMATION		MISCELLANEOUS INFORMATION	
	LA2	24" X 24" LED FIXTURE	MAKE	HUBBELL LIGHTING	VOLTAGE	MVOLT	MOUNTING	RECESSED
			MODEL	SRP22-35VL-G-EDU	LAMP QTY		HEIGHT	
			ALTERNATE	OR APPROVED EQUAL	LAMP TYPE	LED	NOTES	
			OTHER		WATTS	30W		
	LA4	24" X 48" LED FIXTURE	MAKE	HUBBELL LIGHTING	VOLTAGE	MVOLT	MOUNTING	RECESSED
			MODEL	SRP24-35LW-G-EDU	LAMP QTY		HEIGHT	
			ALTERNATE	OR APPROVED EQUAL	LAMP TYPE	LED	NOTES	
			OTHER		WATTS	30W		
	LA4-E	24" X 48" LED FIXTURE EMERGENCY BATTERY BACKUP	MAKE	HUBBELL LIGHTING	VOLTAGE	MVOLT	MOUNTING	RECESSED
			MODEL	SRP24-35LW-G-EDUL-ELL14ST	LAMP QTY		HEIGHT	
			ALTERNATE	OR APPROVED EQUAL	LAMP TYPE	LED	NOTES	
			OTHER		WATTS	30W		
	LC2	24" X 24" RECESSED LED FIXTURE	MAKE	H.E. WILLIAMS	VOLTAGE	MVOLT	MOUNTING	RECESSED
			MODEL	DIG-S22-L32/835-WPR-DIM1-UNV	LAMP QTY		HEIGHT	
			ALTERNATE	OR APPROVED EQUAL	LAMP TYPE	LED	NOTES	
			OTHER		WATTS	26W		
	LC2-E	24" X 24" RECESSED LED FIXTURE WITH EMERGENCY BATTERY PACK	MAKE	H.E. WILLIAMS	VOLTAGE	MVOLT	MOUNTING	RECESSED
			MODEL	DIG-S22-L32-835-WPR-EM/14W-DIM1-UNV	LAMP QTY		HEIGHT	
			ALTERNATE	OR APPROVED EQUAL	LAMP TYPE	LED	NOTES	
			OTHER		WATTS	26W		
	LC4	24" X 48" RECESSED LED FIXTURE	MAKE	H.E. WILLIAMS	VOLTAGE	MVOLT	MOUNTING	RECESSED
			MODEL	DIG-S24-L50/835-WPR-DIM1-UNV	LAMP QTY		HEIGHT	
			ALTERNATE	OR APPROVED EQUAL	LAMP TYPE	LED	NOTES	
			OTHER		WATTS	41W		
	LC4-E	24" X 48" RECESSED LED FIXTURE EMERGENCY BATTERY BACKUP	MAKE	H.E. WILLIAMS	VOLTAGE	MVOLT	MOUNTING	RECESSED
			MODEL	DIG-S22-L50-835-WPR-EM/14W-DIM1-UNV	LAMP QTY		HEIGHT	
			ALTERNATE	OR APPROVED EQUAL	LAMP TYPE	LED	NOTES	
			OTHER		WATTS	41W		
	LD5	6" LED DOWNLIGHT	MAKE	H.E. WILLIAMS	VOLTAGE	MVOLT	MOUNTING	RECESSED
			MODEL	6DL-TL-L20/835-DIM1-UNV-O-W-OF-CS	LAMP QTY		HEIGHT	
			ALTERNATE	OR APPROVED EQUAL	LAMP TYPE	LED	NOTES	VERIFY TRIM FINISH WITH ARCHITECT
			OTHER		WATTS	19.1W		
	LD5-E	6" LED DOWNLIGHT EMERGENCY BATTERY BACKUP	MAKE	H.E. WILLIAMS	VOLTAGE	MVOLT	MOUNTING	RECESSED
			MODEL	6DL-TL-L20/835-EM/10W/RTS-DIM1-UNV-O-W-OF-CS	LAMP QTY		HEIGHT	
			ALTERNATE	OR APPROVED EQUAL	LAMP TYPE	LED	NOTES	VERIFY TRIM FINISH WITH ARCHITECT
			OTHER		WATTS	19.1W		
	LD6	6" LED DOWNLIGHT	MAKE	H.E. WILLIAMS	VOLTAGE	MVOLT	MOUNTING	RECESSED
			MODEL	6DL-TL-L20/835-DIM1-UNV-O-W-OF-CS	LAMP QTY		HEIGHT	
			ALTERNATE	OR APPROVED EQUAL	LAMP TYPE	LED	NOTES	VERIFY TRIM FINISH WITH ARCHITECT
			OTHER		WATTS	19.1W		
	LD7	6" LED DOWNLIGHT WITH SLOPE ADAPTER	MAKE	H.E. WILLIAMS	VOLTAGE	MVOLT	MOUNTING	RECESSED
			MODEL	6AR L20 80 40 DIM UNV A W OF CS WET/CC N	LAMP QTY		HEIGHT	
			ALTERNATE	OR APPROVED EQUAL	LAMP TYPE	LED	NOTES	
			OTHER		WATTS	23.2		
	LD7-E	6" LED DOWNLIGHT WITH SLOPE ADAPTER	MAKE	H.E. WILLIAMS	VOLTAGE	MVOLT	MOUNTING	RECESSED
			MODEL	6AR L20 80 40 EM/10W DIM UNV A W OF CS WET/CC	LAMP QTY		HEIGHT	
			ALTERNATE	OR APPROVED EQUAL	LAMP TYPE	LED	NOTES	
			OTHER		WATTS	23.2		
	LS2	24" LED LINEAR FIXTURE	MAKE	H.E. WILLIAMS	VOLTAGE	UNV	MOUNTING	SURFACE
			MODEL	7SS-2-L25/835-DRV-UNV	LAMP QTY		HEIGHT	
			ALTERNATE		LAMP TYPE	LED	NOTES	
			OTHER		WATTS	19W		
	LS4	LED 48" LED LINEAR FIXTURE	MAKE	H.E. WILLIAMS	VOLTAGE	UNV	MOUNTING	SURFACE
			MODEL	7SS-4-L50/835-DRV-UNV	LAMP QTY	LED	HEIGHT	
			ALTERNATE	OR APPROVED EQUAL	LAMP TYPE	LED	NOTES	
			OTHER		WATTS	34W		
	LS4-E	LED 48" LED LINEAR FIXTURE	MAKE	H.E. WILLIAMS	VOLTAGE	UNV	MOUNTING	SURFACE
			MODEL	7SS-4-L50/835-EM/7WRM-DRV-UNV	LAMP QTY	LED	HEIGHT	
			ALTERNATE	OR APPROVED EQUAL	LAMP TYPE	LED	NOTES	
			OTHER		WATTS	34W		
	LS4-G	7" X 48" WATERPROOF LINEAR LED FIXTURE	MAKE	HUBBELL LIGHTING	VOLTAGE	UNV	MOUNTING	SURFACE
			MODEL	LXEM4-35VW-RFA-EU	LAMP QTY	LED	HEIGHT	
			ALTERNATE	OR APPROVED EQAUL	LAMP TYPE	LED	NOTES	
			OTHER		WATTS	25W		
	P1	POLE LIGHT	MAKE	BEACON	VOLTAGE	120V	MOUNTING	POLE
			MODEL	VP S 60L 136 4K7 4	LAMP QTY	LED	HEIGHT	22.5'
			ALTERNATE		LAMP TYPE	LED	NOTES	
			OTHER		WATTS	136W		
	WS1	LED WALL SCONCE	MAKE	PRESCO LIGHT	VOLTAGE	UNV	MOUNTING	SURFACE
			MODEL	LTC6RD-W-15L-40K-8-WD-DIM1-S-SVR	LAMP QTY	LED	HEIGHT	CONFIRM W/ARCHITECT
			ALTERNATE		LAMP TYPE	LED	NOTES	
			OTHER		WATTS	18.7W		
	WP1	WALL PACK	MAKE	HUBBELL	VOLTAGE	UNV	MOUNTING	SURFACE
			MODEL	LNC2-12L-4K-035-3-U-BLT	LAMP QTY	LED	HEIGHT	CONFIRM W/ARCHITECT
			ALTERNATE		LAMP TYPE	LED	NOTES	CONFIRM FINISH WITH ARCHITECT
			OTHER		WATTS	29		
	WP1-E	WALL PACK WITH EMERGENCY BATTERY	MAKE	HUBBELL	VOLTAGE	UNV	MOUNTING	SURFACE
			MODEL	LNC2-12L-4K-035-3-U-BLT-E	LAMP QTY	LED	HEIGHT	CONFIRM W/ARCHITECT
			ALTERNATE		LAMP TYPE	LED	NOTES	CONFIRM FINISH WITH ARCHITECT
			OTHER		WATTS	29		
	X1	EXIT / EMERGENCY SIGN	MAKE	DUAL LIGHT	VOLTAGE	UNV	MOUNTING	SURFACE
			MODEL	LESXSRNEM	LAMP QTY	LED	HEIGHT	
			ALTERNATE		LAMP TYPE	LED	NOTES	CONFIRM ARROWS AND FACES WITH PLAN
			OTHER		WATTS	3.3W		
	X2	EXIT / EMERGENCY SIGN	MAKE	DUAL LIGHT	VOLTAGE	UNV	MOUNTING	SURFACE
			MODEL	LESXSRNEM	LAMP QTY	LED	HEIGHT	
			ALTERNATE		LAMP TYPE	LED	NOTES	CONFIRM ARROWS AND FACES WITH PLAN
			OTHER		WATTS	3.3W		

NOTES
1. FIXTURES WITH THE SUFFIX "-EM" ATTACHED TO THE ID OR SHOWN HALF SHADED ARE EMERGENCY FIXTURES. SEE ELECTRICAL GENERAL NOTES FOR MORE INFORMATION.
2. FIXTURES WITH THE SUFFIX "-NL" ARE NIGHT LIGHTS. SEE ELECTRICAL GENERAL NOTES FOR MORE INFORMATION.

DESIGNATIONS
-N NEW
-E EXISTING
-D DEMO
-R RELOCATED

NXPS SERIES 16 CIRCUIT LIGHTING RELAY PANEL

LIGHTING RELAY PANEL "LR1" — HUBBELL NXPS SERIES #NXP-16-2-083LS OR APPROVED EQUAL
120/208 - 3Ø - 4W

NO.	LOAD TYPE	CIRCUIT	LOAD	UNIT	TYPE	NOTES/COMMENTS
1	WEST CORRIDOR LIGHTS	P3-3	850	WATTS	1CB	TIME SCHEDULE
2	SOUTHEAST CORRIDOR LIGHTS	P5-5	1307	WATTS	1CB	TIME SCHEDULE
3	NORTHEAST CORRIDOR LIGHTS	P1-2	923	WATTS	1CB	TIME SCHEDULE
4	SOUTH EXTERIOR LIGHTS	P5-53	918	WATTS	1CB	PC CONTROL DUSK/DAWN
5	SOUTHEAST EXTERIOR LIGHTS	P5-55	413	WATTS	1CB	PC CONTROL DUSK/DAWN
6	SOUTHWEST EXTERIOR LIGHTS	P3-53	364	WATTS	1CB	PC CONTROL DUSK/DAWN
7	SITE LIGHTS	P5-58	544	WATTS	1CB	PC CONTROL DUSK/DAWN
8	SITE LIGHTS	P5-60	272	WATTS	1CB	PC CONTROL DUSK/DAWN
9						
10						
11						
12						
13						
14						
15						
16						

POWER PLAN SYMBOL LEGEND

+0"	SIMPLEX RECEPTACLE MOUNT AT +18" A.F.F. UNLESS OTHERWISE NOTED
+0"	DUPLEX RECEPTACLE MOUNT AT +18" A.F.F. UNLESS OTHERWISE NOTED
+0"	SPECIAL USE DEDICATED RECEPTACLE MOUNT AT +18" A.F.F. UNLESS OTHERWISE NOTED REFER TO PANEL SCHEDULE FOR MORE INFORMATION
+0"	GROUND FAULT CIRCUIT INTERRUPTER RECEPTACLE MOUNT AT +18" A.F.F. UNLESS OTHERWISE NOTED
+0"	WEATHER PROOF RECEPTACLE MOUNT AT +18" A.F.F. UNLESS OTHERWISE NOTED
+0"	QUADRUPLEX RECEPTACLE MOUNT AT +18" A.F.F. UNLESS OTHERWISE NOTED
+0"	QUADRUPLEX GFCI RECEPTACLE MOUNT AT +18" A.F.F. UNLESS OTHERWISE NOTED
	SIMPLEX RECEPTACLE WITH SPECIAL MOUNTING REQUIREMENTS. CLG = CEILING MOUNTED, CORD = CORD DROP, BLANK = FLOOR MOUNTED.
	DUPLEX RECEPTACLE WITH SPECIAL MOUNTING REQUIREMENTS. CLG = CEILING MOUNTED, CORD = CORD DROP, BLANK = FLOOR MOUNTED.
	QUADRUPLEX RECEPTACLE WITH SPECIAL MOUNTING REQUIREMENTS. CLG = CEILING MOUNTED, CORD = CORD DROP, BLANK = FLOOR MOUNTED.
+0"	TELEPHONE JACK MOUNT AT +18" A.F.F. UNLESS OTHERWISE NOTED
+0"	DATA JACK MOUNT AT +18" A.F.F. UNLESS OTHERWISE NOTED
+0"	COMBINATION COMPUTER / PHONE JACK MOUNT AT +18" A.F.F. UNLESS OTHERWISE NOTED
+0"	TELEVISION JACK MOUNT AT +18" A.F.F. UNLESS OTHERWISE NOTED
FLOOR MOUNTED VOICE/DATA BASE POWER INPUT CONNECTION	WALL MOUNTED VOICE/DATA BASE POWER INPUT CONNECTION
	JUNCTION BOX
	NON-FUSED DISCONNECT
	FUSED DISCONNECT
	POWER POLE
	COMBINATION POWER/COMMUNICATIONS FLOOR BOX WITH DUPLEX RECEPTACLE AND (2) DATA JACKS UNLESS OTHERWISE NOTED ON PLAN.
FLOOR MOUNTED BASE POWER INPUT	WALL MOUNTED BASE POWER INPUT
(M) 1Ø MOTOR CONNECTION	(M) 3Ø MOTOR CONNECTION
A EXISTING / A NEW	FLUSH MOUNTED PANEL A = PANEL DESIGATION
A EXISTING / A NEW	SURFACE MOUNTED PANEL A = PANEL DESIGATION
	METER
A-B	HOME RUN A = PANEL DESIGATION B = CIRCUIT NUMBER

N = NEW E = EXISTING R = RELOCATED D = DEMO F = FUTURE
+0" = MOUNTING HEIGHT OF THE DEVICE ABOVE FINISHED FLOOR.

LIGHTING PLAN SYMBOL LEGEND

TYPICAL FIXTURE	LIGHTING FIXTURE EXISTING TO REMAIN
TYPICAL FIXTURE	LIGHTING FIXTURE TO BE REMOVED FROM LOCATION. SEE PLAN FOR NEW FIXTURE LOCATION (IF ANY).
IDENTICAL FIXTURES	SHADING INDICATES THAT A FIXTURE IS WIRED TO A NIGHT LIGHT OR EMERGENCY TYPE CIRCUIT. FIXTURE SHALL BE WIRED IN ACCORDANCE WITH N.E.C. ARTICLE 700.
A-# TYPICAL FIXTURE (a) X	"X" = FIXTURE TYPE A-# = CIRCUIT NUMBER ab = SWITCH LEG
$	LINE VOLTAGE SWITCH
$O	OCCUPANCY SENSOR
LR2	LIGHTING RELAY PANEL
WS3	LOW VOLTAGE WALL STATION WITH (3) DIMMABLE SWITCHES. BUTTONS SHALL BE ON/OFF TOGGLE, RAISE & LOWER.
WS4	LOW VOLTAGE WALL STATION WITH (4) DIMMABLE SWITCHES. BUTTONS SHALL BE ON/OFF TOGGLE, RAISE & LOWER.

N = NEW E = EXISTING R = RELOCATED D = DEMO F = FUTURE
+0" = MOUNTING HEIGHT OF THE DEVICE ABOVE FINISHED FLOOR.

ELECTRICAL GENERAL NOTES

1. ALL WORK SHALL BE PERFORMED IN A CLEAN AND WORKMANLIKE MANNER. CARE SHALL BE EXERCISED TO MINIMIZE ANY INCONVENIENCE OR DISTURBANCE TO OTHER AREAS OF THE BUILDING WHICH ARE TO REMAIN IN OPERATION. ISOLATE WORK AREAS BY MEANS OF TEMPORARY PARTITIONS AND/OR TARPS TO KEEP DUST AND DIRT WITHIN THE CONSTRUCTION AREA.
2. NO EQUIPMENT, ETC. SHALL BE REMOVED, DISCONNECTED OR SHUT DOWN WITHOUT PRIOR REVIEW WITH THE OWNER AND/OR ENGINEER TO CONFIRM THAT AREAS TO REMAIN IN OPERATION WILL NOT BE AFFECTED. IF ANY AREAS NOT WITHIN THE SCOPE OF WORK ARE AFFECTED BY ANY SHUTDOWN, REMOVAL, OR DISCONNECTION, SUFFICIENT ADVANCE NOTICE MUST BE GIVEN TO THE OWNER INDICATING WHICH AREAS WILL BE AFFECTED, WHEN THE PROPOSED SHUTDOWN WILL OCCUR, AND FOR HOW LONG A PERIOD OF TIME.
3. ALL ITEMS INDICATED TO BE DEMOLISHED OR REMOVED SHALL BECOME PROPERTY OF THE CONTRACTOR AND SHALL BE DISPOSED OF OFF SITE UNLESS INDICATED OTHERWISE.
4. THIS CONTRACTOR SHALL FILED VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS PRIOR TO PROCEEDING WITH ANY WORK. WHERE DISCREPANCIES OCCUR BETWEEN THESE DOCUMENTS AND EXISTING CONDITIONS, THE DISCREPANCY SHALL BE REPORTED TO THE OWNER AND/OR ENGINEER FOR EXPEDITING AND RESOLUTION.
5. ALL SHUT DOWNS OF EXISTING SYSTEMS SHALL BE SCHEDULED AND APPROVED BY THE OWNER PRIOR TO COMMENCING WITH WORK.
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE SAFEKEEPING OF HIS OWN PROPERTY ON THE JOB SITE. OWNER ASSUMES NO RESPONSIBILITY FOR PROTECTION OF PROPERTIES AGAINST FIRE, THEFT AND ENVIRONMENTAL CONDITIONS.
7. UNLESS OTHERWISE NOTED, ALL MATERIALS SHALL BE NEW AND UNUSED. EQUIPMENT CLASSIFIED AS DEMONSTRATORS, PROTOTYPE OR DISCONTINUED, ARE NOT ACCEPTABLE. ALL EQUIPMENT SHALL BE THE LATEST MODEL OFFERED AND MUST BE TIRED, PROVEN, AND IN CURRENT USE.
8. MOUNT DEVICES AT UNIFORM HEIGHT. VERIFY EXACT MOUNTING HEIGHT WITH ARCHITECTURAL DRAWINGS.
9. PROVIDE SINGLE GANG OUTLET BOX FOR MOUNTING OF DEVICE BY THE OTHERS. EXTEND 1-1/4" CONDUIT WITH PULL STRING FROM OUTLET BOX TO ACCESSIBLE LOCATION ABOVE CEILING.
10. MOUNT OUTLET BOX AT SAME HEIGHT AS ASSOCIATED RECEPTACLE OUTLET. WHERE OUTLETS ARE MOUNTED IN SURFACE RACEWAY, PROVIDE SEPARATE 1-1/4" CONDUIT FROM DATA SECTION OF SURFACE RACEWAY IN ADDITION TO CONDUITS FOR OTHER SYSTEMS (COMMUNICATIONS, EQUIPMENT, ALARMS, POWER, ETC).
11. THE TERM "PROVIDE" SHALL MEAN CONTRACTOR SHALL FURNISH AND INSTALL ITEMS AND CONNECT AS REQUIRED TO OBTAIN A COMPLETE WORKING SYSTEM.
12. RECEPTACLES SHALL BE CIRCUITED WITH A SEPARATE GROUND WIRE. RECEPTACLES PROTECTED BY GROUND FAULT CIRCUIT INTERRUPTER DEVICES SHALL EACH HAVE A SEPARATE NEUTRAL WIRE PULLED FOR THAT CIRCUIT.
13. ALL CONDUIT SHALL BE RUN CONCEALED WHEREVER POSSIBLE ABOVE CEILINGS, INSIDE WALLS, OR UNDER FLOOR SLAB (ONLY WHERE SHOWN DASHED ON PLAN), UNLESS OTHERWISE NOTED ON PLAN. IN HIGH-BAY (NO CEILING) AREAS, RUN EXPOSED CONDUIT HIGH AS POSSIBLE. ALL CONDUIT SHALL BE RUN PARALLEL OR PERPENDICULAR TO NEARBY SURFACES OR STRUCTURAL MEMBERS AND FOLLOW THE SURFACE CONTOURS AS MUCH AS PRACTICAL. NO NONMETALLIC CONDUIT SHALL BE RUN IN AIR RETURN PLENUM.
14. FROM EACH TELEPHONE, CRT, TV, ETC.. COMMUNICATION TYPE OUTLET, PROVIDE A (MIN..) 3/4-INCH CONDUIT (WITH PULL STRING) STUBBED ABOVE LAY-IN CEILING, UNLESS OTHERWISE NOTED.
15. TELEPHONE AND OTHER COMMUNICATIONS WIRING SHALL BE PLENUM RATED IF CONDUCTORS PASS THROUGH AN AIR RETURN PLENUM.
16. ELECTRICAL DRAWINGS SHALL BE COORDINATED WITH ASSOCIATED MECHANICAL DRAWINGS AND MECHANICAL CONTRACTOR FOR MOTORS, DEVICES, FIXTURES, ETC.. FOR EXACT LOCATIONS BEFORE ROUGH-IN OF CONDUIT SYSTEM.
17. MINIMUM CONDUIT SIZE IS 3/4 INCH, MINIMUM WIRE SIZE IS #12 AWG, UNLESS OTHERWISE NOTED ON PLANS OR IN CIRCUIT REVIEWS.
18. MOUNTING HEIGHTS ABOVE FINISHED FLOOR (A.F.F.) ARE TO CENTER OF DEVICE UNLESS NOTED OTHERWISE.
19. ALL WIRING SHALL BE INSTALLED PER THE NATIONAL ELECTRIC CODE (NEC). ALL WIRING SHALL BE SECURED AND SUPPORTED PER NEC 300.11.
20. CONTRACTOR SHALL INCLUDE THE COST TO SECURE ALL APPLICABLE PERMITS IN BASE BID.
21. ALL RECEPTACLES IN THE KITCHEN/PREP AREA SHALL BE GFCI WHETHER SHOWN AS SUCH OR NOT.
22. ALL EXIT AND EMERGENCY LIGHTING SHALL BE WIRED EITHER AHEAD OF LOCAL SWITCHING ON THE LOCAL AREA CIRCUIT OR ON A DEDICATED EXIT/EMERGENCY CIRCUIT. THE METHOD CHOSEN SHALL MEET THE REQUIREMENTS OF N.E.C. ARTICLE 700 AND THE REQUIREMENTS OF THE AUTHORITIES HAVING JURISDICTION.
23. ALL 120V AND 277V CIRCUITS SHALL HAVE A DEDICATED NEUTRAL. SHARING A NEUTRAL CONDUCTOR IS PROHIBITED.
24. ALL RECEPTACLES BEHIND VENDING MACHINES AND REFRIGERATORS TO BE GFCI WITH REMOTE AND OR ACCESSIBLE RESET.

EXISTING CONDITIONS AND RELOCATION NOTES

1. THE CONTRACTOR SHALL INCLUDE ALL COSTS FOR REMOVALS AND RELOCATIONS IN THE CONTRACT. THESE COSTS SHALL INCLUDE WORK DESCRIBED IN THE SPECIFICATIONS AND SHOWN ON THE DRAWINGS WITH ALLOWANCES FOR NORMAL UNFORESEEN DIFFICULTIES WHEN CONCEALED WORK HAS BEEN OPENED. NO CLAIMS FOR ADDITIONAL WORK ASSOCIATED WITH DEMOLITION WILL BE ACCEPTED EXCEPT IN SPECIFIC CASES CONSIDERED JUSTIFIABLE BY THE ENGINEER.
2. THE CONTRACTOR SHALL REMOVE AND/OR RELOCATE ALL EXISTING ELECTRICAL WORK WHICH INTERFERES WITH THE NEW LAYOUTS AND SCHEMES. ALL WORK WHICH IS NO LONGER REQUIRED TO FUNCTION SHALL BE DE-ENERGIZED AND DISCONNECTED AT THE SOURCE OF POWER SUPPLY. ALL DEVICES THAT ARE TO REMAIN SHALL BE CONNECTED TO THE EXISTING BRANCH CIRCUITS OR NEW ONES AS REQUIRED.
3. ALL ELECTRICAL WORK IN ADJOINING AREAS WHICH IS REQUIRED TO FUNCTION BUT IS AFFECTED BY DEMOLITION WORK SHALL BE RECONNECTED AND RESTORED TO ITS PRESENT FUNCTION AS PART OF THE ELECTRICAL SYSTEM OF THE BUILDING.
4. ALL PRESENT MATERIAL AND EQUIPMENT IN USABLE CONDITION, WHICH IS TO BE REMOVED UNDER THIS CONTRACT, SHALL REMAIN THE PROPERTY OF THE OWNER AND/OR SHALL BE DISPOSED OF BY THE ELECTRICAL CONTRACTOR AS DIRECTED.
5. PORTIONS OF FEEDER LINES THAT HAVE TO BE REMOVED AS A RESULT OF DEMOLITION WORK, BUT ARE REQUIRED TO CONTINUE TO FUNCTION SHALL BE CUT AT CONVENIENT LOCATIONS, REROUTED AND RECONNECTED FOR CONTINUATION OF THEIR PRESENT FUNCTION. NEW FEEDER EXTENSIONS SHALL MATCH EXISTING ONES IN ALL RESPECTS: CONDUCTOR CAPACITY, CONDUIT SIZE, ETC.
6. THE CONTRACTOR SHALL NOTIFY THE OWNER AT THE APPROPRIATE TIME OF THE PROJECTED DEMOLITION AND PHASING SCHEDULE SO THAT REMOVAL OR RELOCATION OF AFFECTED UTILITIES MAY BE CARRIED OUT IN COORDINATION WITH CONSTRUCTION SCHEDULES. THE CONTRACTOR SHALL FOLLOW THE ARCHITECT'S DEMOLITION AND PHASING SCHEDULE AND PROCEED IN THE SPECIFIED SEQUENCE.
7. ON DEMOLITION AND NEW WORK DRAWINGS, CORRESPONDING ANNOTATION:
E - EXISTING D - DEMO R - RELOCATED

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Grant County
Extension Office
Renovation and Addition
105 Baton Rouge Road
Williamstown, Kentucky 41097

Electrical Schedules and Legends

Project No.
20026

ADDENDUM 3
E-602

Volts	Phase	Wire	Panel Type	Ampacity Provided	Mount	AIC	Fed From
208/120	3Ø	4	Main Circuit Breaker	400 Amps	Surface	Existing	MDP

Electrical Panel Schedule DP

Circuit #	Breaker	Poles	Notes	Description	A	B	C	A	B	C	Description	Notes	Poles	Breaker	Circuit #
1	200	3		Panel 1	5,660			1,440			Panel 2		3	200	2
3						3,720			1,260						4
5							2,500			1,720					6
7	60	2		CU-2	4,160						Spare		3	100	8
9						4,160									10
11	60	2		CU-3			4,160								12
13					4,160						Spare		3	100	14
15	60	2		CU-4		4,160									16
17							4,160								18
19	60	2		CU-5	4,160			3,480			RTU-1		3	40	20
21						4,160			3,480						22
23	15	2		CU-8			1,380			3,480					24
25					1,380			2,640			New Duplex Lift Station		3	25	26
27	15	2		CU-9		1,380			2,640						28
29							1,380			2,640					30
31								4,320			Domestic Water Booster Pump		3	50	32
33									4,320						34
35										4,320					36
37											Spare		3	15	38
39															40
41															42
43															44
45															46
47															48
49															50
51															52
53															54

Total Connected Load Phase A:	31,400
Total Connected Load Phase B:	29,280
Total Connected Load Phase C:	25,740
Total Connected Load:	86,420 Watts

Load Description	Watts	Factor	Total
Receptacles < 10,000	10,000	100%	10,000
Receptacles > 10,000	100	50%	125
Lighting Loads	0	125%	0
Track Lighting	0Ft	75W/Ft	0
Motor Loads	7,920	100%	7,920
Largest Motor	12,960	125%	16,200
Cooling Loads	49,240	100%	49,240
Heating Loads	0	100%	0
Continuous Loads	100	125%	125
Non-Continuous Loads	6,000	100%	6,000
Kitchen Equipment Loads	0	100%	0
Existing Panel Demand		125%	0
Sub-Total:			**89,585**
Total Connected Ampacity:			**248.66**
Total Connected Load %:			**62%**

Notes:

AF	Arc Fault Circuit Interrupter
GF	Ground Fault Circuit Interrupter
LO	Lock Out Breaker
ST	Shunt Trip
PNF	Provide new fuse in slot
REF	Re-use existing spare fusible switch
EX	Blank loads on panel are unknown and shall be calculated under the existing panel demand (or existing building peak demand) category in the load calculations section. Engineer offers no warranty as to the condition or load information on unknown circuit breakers.

Panel Schedule Notes:

New circuit breakers added to existing panels shall match panel manufacturer, voltage level, and fault current rating of existing protectives.

Identify main disconnects and all up and down stream disconnecting means for all circuits at panel.

Fill out branch circuit directory indicating circuit numbers, area(s) served, and load type. Index shall be neatly typed. Branch circuit directories shall be updated or replaced in all areas of alterations.

Black laminated phenolic nameplates shall be provided on all new and existing panel boards secured by #8-32 screws, lock washers, and nuts on each corner of nameplate.

Contractor may arrange circuits to suit field conditions, but loading between phases shall be +/1 10%.

Volts	Phase	Wire	Panel Type	Ampacity Provided	Mount	AIC	Fed From
208/120	3Ø	4	Main Lug Only	225 Amps	Surface	TBD	MDP

Electrical Panel Schedule P3

Circuit #	Breaker	Poles	Notes	Description	A	B	C	A	B	C	Description	Notes	Poles	Breaker	Circuit #
1	20	1		West Side Office Lights	1,098			4,160			CU-7		2	40	2
3	20	1		West Side Corridor Lights		1,003			4,160						4
5	20	1		Board Room 102 Rec			1,440			1,776	AHU-7		1	15	6
7	20	1		Spare							Spare		1	20	8
9	20	1		Spare							Spare		1	20	10
11	20	1		Secretary 104 Desk Rec			720			180	Vending	GF	1	20	12
13	20	1		Secretary 104 Desk Rec	720						Vestibule 101 ADA Doors		1	20	14
15	20	1		Secretary 104 Dedicated Copier Rec		180				540	Vestibule 101 Rec		1	20	16
17	20	1		Secretary 104 Counter Rec			360				Spare		1	20	18
19	20	1		Work Room 105 West Counter Rec	540			360			Waiting 104A Rec		1	20	20
21	20	1		Work Room 105 Copier Rec		180				360	Corridor 110 South Rec		1	20	22
23	20	1		Work Room 105 Copier Rec			180			360	Mech 113/Corridor 110 Rec		1	20	24
25	20	1		Work Room 105 Plotter Rec	180			540			Break Room 114 Rec		1	20	26
27	20	1		Work Room 105 Vinyl Cutter Rec		180			180		Break Room 114 Ref	GF	1	20	28
29	20	1		Work Room 105 Table Rec			180			180	Break Room 114 GFI	GF	1	20	30
31	20	1	GF	Sewing Room 123 West Rec	180			180			Break Room 114 GFI	GF	1	20	32
33	20	1	GF	Sewing Room 123 North Rec		180			180		Sewing Room 123 North Rec		1	20	34
35	20	1	GF	Sewing Room 123 Cable Reel			180			180	Sewing Room 123 North Rec		1	20	36
37	20	1		Sewing Room 123 Cable Reel	180			180			Sewing Room 123 North Rec		1	20	38
39	20	1		Sewing Room 123 Cable Reel		180			180		Sewing Room 123 East Rec		1	20	40
41	20	1		Sewing Room 123 GFI			180			180	Sewing Room 123 East Rec		1	20	42
43	20	1		Sewing Room 123 GFI	180			180			Sewing Room Cable Reel		1	20	44
45	20	1		Sewing Room 123 South Rec		180			180		Sewing Room Cable Reel		1	20	46
47	20	1		Sewing Room 123 South Rec			180			180	Sewing Room Cable Reel		1	20	48
49	20	1		Sewing Room 123 West Rec	180						Spare		1	20	50
51	20	1		Sewing Room 123 TV Rec		180					Spare		1	20	52
53	20	1		West Exterior Lights			364				Spare		1	20	54
55	20	1		Spare							Spare		1	20	56
57	20	1		Spare							Spare		1	20	58
59	20	1		Spare							Spare		1	20	60

Total Connected Load Phase A:	8,858
Total Connected Load Phase B:	8,043
Total Connected Load Phase C:	6,820
Total Connected Load:	23,721 Watts

Load Description	Watts	Factor	Total
Receptacles < 10,000	10,000	100%	10,000
Receptacles > 10,000	1,160	50%	580
Lighting Loads	2,465	125%	3,081
Track Lighting	0Ft	75W/Ft	0
Motor Loads	0	100%	0
Largest Motor	0	125%	0
Cooling Loads	8,320	100%	8,320
Heating Loads	1,776	100%	1,776
Continuous Loads	0	125%	0
Non-Continuous Loads	0	100%	0
Kitchen Equipment Loads	0	100%	0
Existing Panel Demand		125%	0
Sub-Total:			**23,757**
Total Connected Ampacity:			**65.94**
Total Connected Load %:			**29%**

Notes:

AF	Arc Fault Circuit Interrupter
GF	Ground Fault Circuit Interrupter
LO	Lock Out Breaker
ST	Shunt Trip
PNF	Provide new fuse in slot
REF	Re-use existing spare fusible switch
EX	Blank loads on panel are unknown and shall be calculated under the existing panel demand (or existing building peak demand) category in the load calculations section. Engineer offers no warranty as to the condition or load information on unknown circuit breakers.

Panel Schedule Notes:

New circuit breakers added to existing panels shall match panel manufacturer, voltage level, and fault current rating of existing protectives.

Identify main disconnects and all up and down stream disconnecting means for all circuits at panel.

Fill out branch circuit directory indicating circuit numbers, area(s) served, and load type. Index shall be neatly typed. Branch circuit directories shall be updated or replaced in all areas of alterations.

Black laminated phenolic nameplates shall be provided on all new and existing panel boards secured by #8-32 screws, lock washers, and nuts on each corner of nameplate.

Contractor may arrange circuits to suit field conditions, but loading between phases shall be +/1 10%.

Volts	Phase	Wire	Panel Type	Ampacity Provided	Mount	AIC	Fed From
208/120	3Ø	4	Main Circuit Breaker	800 Amps	Surface	35,000	Service

Electrical Panel Schedule MDP

Circuit #	Breaker	Poles	Notes	Description	A	B	C	A	B	C	Description	Notes	Poles	Breaker	Circuit #
1	400	3		Panel DP	31,400			15,081			Panel 5		3	225	2
						29,280			14,924						
3	225	3		Panel 3	8,858			3,308			Panel 6		3	225	4
						8,043			4,640						
5	225	3		Panel 4	16,465						Spare		3	225	6
						19,344									
7	200	3		Disconnect for MPU			14,470				TVSS		3	60	8
9													3		10

Total Connected Load Phase A:	75,112
Total Connected Load Phase B:	76,231
Total Connected Load Phase C:	59,881
Total Connected Load:	211,224 Watts

Load Description	Watts	Factor	Total
Receptacles < 10,000	10,000	100%	10,000
Receptacles > 10,000	40,000	50%	20,000
Lighting Loads	11,095	125%	13,868
Track Lighting	0Ft	75W/Ft	0
Motor Loads	2,978	100%	2,978
Largest Motor	20,880	125%	26,100
Cooling Loads	79,656	100%	79,656
Heating Loads	4,719	100%	4,719
Continuous Loads	100	125%	125
Non-Continuous Loads	18,900	100%	18,900
Kitchen Equipment Loads	22,896	100%	22,896
Existing Panel Demand		125%	0
Sub-Total:			**199,242**
Total Connected Ampacity:			**553.04**
Total Connected Load %:			**69%**

Notes:

AF	Arc Fault Circuit Interrupter
GF	Ground Fault Circuit Interrupter
LO	Lock Out Breaker
ST	Shunt Trip
PNF	Provide new fuse in slot
REF	Re-use existing spare fusible switch
EX	Blank loads on panel are unknown and shall be calculated under the existing panel demand (or existing building peak demand) category in the load calculations section. Engineer offers no warranty as to the condition or load information on unknown circuit breakers.

Panel Schedule Notes:

New circuit breakers added to existing panels shall match panel manufacturer, voltage level, and fault current rating of existing protectives.

Identify main disconnects and all up and down stream disconnecting means for all circuits at panel.

Fill out branch circuit directory indicating circuit numbers, area(s) served, and load type. Index shall be neatly typed. Branch circuit directories shall be updated or replaced in all areas of alterations.

Black laminated phenolic nameplates shall be provided on all new and existing panel boards secured by #8-32 screws, lock washers, and nuts on each corner of nameplate.

Contractor may arrange circuits to suit field conditions, but loading between phases shall be +/1 10%.

Volts	Phase	Wire	Panel Type	Ampacity Provided	Mount	AIC	Fed From
208/120	3Ø	4	Main Lug Only	200 Amps	Surface	Existing	MDP

Electrical Panel Schedule P1

Circuit #	Breaker	Poles	Notes	Description	A	B	C	A	B	C	Description	Notes	Poles	Breaker	Circuit #
1	20	1		Security Rec	360			912			Corridor 124/125 Lighting		1	20	2
3	20	1	GF	RR 121 / RR 132 Rec		720			1,137		Storage, Mech/Elec. RR Lighting		1	20	4
5	20	1		RR 131 Door						84	Ham House Lighting		1	20	6
7	20	1		Men's 127 Hand Dryer	500			540			Ham House Rec		1	20	8
9	20	1		Women's 126 Hand Dryer		500			360		Data/IT 134 Quad		1	20	10
11	20	1	GF	Storage 135 GFI			180			360	Data/IT 134 Quad		1	20	12
13	20	1		Table Chair Storage Rec	720			1,080			Mech / Elec 129A Rec		1	20	14
15	20	1		North Exterior Wall Lights		150			180		Mech / Elec 129 Rec	GF	1	20	16
17	20	1		Fire Alarm Control Panel			100				Spare		1	20	18
19	20	1		Lighting Relay Panel	100						Spare		1	20	20
21	20	1		GFWH-2 and Recirc. Pump		360					LVR-1		1	20	22
23	20	1		Outdoor Rec			360				Spare		1	20	24
25	20	1		Storage 130 Receptacles							Spare		1	20	26
27	20	1	GF	Restroom GFIs							Spare		1	20	28
29	20	1	GF	Water fountains							Spare		1	20	30
31	20	1		Panel Rm Rec	360			500			Existing Load		1	20	32
33	20	1		Restroom Flush Valves		100			500		Existing Load		1	20	34
35	20	1		Spare						1,000	Existing Load		1	50	36
37	20	1		Existing Load	500			1,000			Existing Load		1	50	38
39	20	1		Existing Load		500			500		Existing Load		1	20	40
41	20	1		Spare						500	Existing Load		1	20	42

Total Connected Load Phase A:	6,572
Total Connected Load Phase B:	5,007
Total Connected Load Phase C:	2,584
Total Connected Load:	14,163 Watts

Load Description	Watts	Factor	Total
Receptacles < 10,000	5,880	100%	5,880
Receptacles > 10,000	0	50%	0
Lighting Loads	2,283	125%	2,854
Track Lighting	0Ft	75W/Ft	0
Motor Loads	0	100%	0
Largest Motor	0	125%	0
Cooling Loads	0	100%	0
Heating Loads	0	100%	0
Continuous Loads	0	125%	0
Non-Continuous Loads	6,000	100%	6,000
Kitchen Equipment Loads	0	100%	0
Existing Panel Demand		125%	0
Sub-Total:			**14,734**
Total Connected Ampacity:			**40.90**
Total Connected Load %:			**20%**

Notes:

AF	Arc Fault Circuit Interrupter
GF	Ground Fault Circuit Interrupter
LO	Lock Out Breaker
ST	Shunt Trip
PNF	Provide new fuse in slot
REF	Re-use existing spare fusible switch
EX	Blank loads on panel are unknown and shall be calculated under the existing panel demand (or existing building peak demand) category in the load calculations section. Engineer offers no warranty as to the condition or load information on unknown circuit breakers.

Panel Schedule Notes:

New circuit breakers added to existing panels shall match panel manufacturer, voltage level, and fault current rating of existing protectives.

Identify main disconnects and all up and down stream disconnecting means for all circuits at panel.

Fill out branch circuit directory indicating circuit numbers, area(s) served, and load type. Index shall be neatly typed. Branch circuit directories shall be updated or replaced in all areas of alterations.

Black laminated phenolic nameplates shall be provided on all new and existing panel boards secured by #8-32 screws, lock washers, and nuts on each corner of nameplate.

Contractor may arrange circuits to suit field conditions, but loading between phases shall be +/1 10%.

Volts	Phase	Wire	Panel Type	Ampacity Provided	Mount	AIC	Fed From
208/120	3Ø	4	Main Lug Only	225 Amps	Surface	Existing	MDP

Electrical Panel Schedule P2

Circuit #	Breaker	Poles	Notes	Description	A	B	C	A	B	C	Description	Notes	Poles	Breaker	Circuit #
1	15	1	GF	Project Room 121 West Wall Rec	360			180			Project Room 121 Cable Reel		1	20	2
3	15	1		Project Room 121 North Wall Rec		360			180		Project Room 121 Cable Reel		1	20	4
5	15	1		Project Room 121 North TV			180			180	Project Room 121 Cable Reel		1	15	6
7	15	1		Project Room 121 East Wall Rec	360			180			Project Room 121 Cable Reel		1	20	8
9	15	1	GF	Project Room 121 South Wall		180			180		Project Room 121 Cable Reel		1	15	10
11	15	1	GF	Project Room 121 South TV			360			180	Project Room 121 Cable Reel		1	15	12
13	20	1		AHU-2	1,776						Spare		1	15	14
15	20	1		Spare							Spare		1	15	16
17	20	1		Spare						360	Panel CM Rec		1	15	18
19	20	1		Spare				360			Panel CM Rec		1	15	20
21	20	1		Spare					360		Panel CM Rec		1	20	22
23	15	1		AHU-3			1,776			360	Panel CM Rec		1	20	24
25	15	1		AHU-4	1,776			1,776			AHU-5		1	20	26
27	20	1		Spare							Spare		1	20	28
29	20	1		Spare							Spare		1	20	30
31	15	1		Spare							Spare		1	20	32
33	15	1		Spare							Spare		1	20	34
35	20	1		Fire Alarm			100			4,000	Spare		1	20	36
37	20	1		Spare				4,000			Spare		1	20	38
39	20	1		Spare					4,000		Spare		1	20	40
41	20	1		Spare						4,000	Spare		1	20	42

Total Connected Load Phase A:	10,768
Total Connected Load Phase B:	5,260
Total Connected Load Phase C:	11,496
Total Connected Load:	27,524 Watts

Load Description	Watts	Factor	Total
Receptacles < 10,000	4,320	100%	4,320
Receptacles > 10,000	0	50%	0
Lighting Loads	0	125%	0
Track Lighting	0Ft	75W/Ft	0
Motor Loads	0	100%	0
Largest Motor	0	125%	0
Cooling Loads	0	100%	0
Heating Loads	23,104	100%	23,104
Continuous Loads	100	125%	125
Non-Continuous Loads	0	100%	0
Kitchen Equipment Loads	0	100%	0
Existing Panel Demand		125%	0
Sub-Total:			**27,549**
Total Connected Ampacity:			**76.47**
Total Connected Load %:			**34%**

Notes:

AF	Arc Fault Circuit Interrupter
GF	Ground Fault Circuit Interrupter
LO	Lock Out Breaker
ST	Shunt Trip
PNF	Provide new fuse in slot
REF	Re-use existing spare fusible switch
EX	Blank loads on panel are unknown and shall be calculated under the existing panel demand (or existing building peak demand) category in the load calculations section. Engineer offers no warranty as to the condition or load information on unknown circuit breakers.

Panel Schedule Notes:

New circuit breakers added to existing panels shall match panel manufacturer, voltage level, and fault current rating of existing protectives.

Identify main disconnects and all up and down stream disconnecting means for all circuits at panel.

Fill out branch circuit directory indicating circuit numbers, area(s) served, and load type. Index shall be neatly typed. Branch circuit directories shall be updated or replaced in all areas of alterations.

Black laminated phenolic nameplates shall be provided on all new and existing panel boards secured by #8-32 screws, lock washers, and nuts on each corner of nameplate.

Contractor may arrange circuits to suit field conditions, but loading between phases shall be +/1 10%.

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STATE OF KENTUCKY
LAWRENCE S. AYER
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REGISTERED PROFESSIONAL ENGINEER

EXPIRATION DATE:6/30/2023

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Revisions: 3 Addendum 3, 08/31/2023
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Grant County
Extension Office Renovation and Addition
105 Baton Rouge Road
Williamstown, Kentucky 41097

Electrical Schedules

Project No.
20026

ADDENDUM 3
E-603