



**ELECTRICAL GENERAL NOTES**

**A. GENERAL ELECTRICAL INTENT::**  
 GENERAL INTENT IS TO DESIGN AND INSTALL A FULLY FUNCTIONAL AND COMPLIANT ELECTRICAL POWER SYSTEM (APPLICABLE EQUIPMENT AND DISTRIBUTION) TO CORRESPOND DIRECTLY TO NOTED/DESIGNED UPDATES TO THE BUILDING. IT IS EXPECTED THAT AN HVAC EQUIPMENT ADDITION AND REPLACEMENT TO BE PROVIDED WHERE NOTED AND BE COMPLETELY COORDINATED WITH ACCOMPANYING DOCUMENTED SCOPES OF WORK, INCLUDING ANY REQUIRED SERVICE AMP-DISTRIBUTION UPGRADES TO ADEQUATELY POWER NEW/REPLACED EQUIPMENT.

**B. DESIGN CRITERIA::**  
 PROPOSERS SHOULD REFER TO OVERALL SPECIFICATIONS AND ACCOMPANYING OWNER'S PROJECT REQUIREMENTS (OPR) DOCUMENTS PUBLISHED FOR DESIGN INTENT AND GUIDELINES.

**C. DESIGN & CONSTRUCTION COORDINATION:**  
 PROPOSERS TO IDENTIFY AND COORDINATE REMOVALS OF EXISTING EQUIPMENT (REFER TO DEMOLITION NOTES) AND COMPLETE IMPLEMENTATION OF NEW HVAC/ELECTRICAL POWER SYSTEM. THIS COORDINATION/CONSTRUCTION INCLUDES, BUT IS NOT LIMITED TO:

1. MAIN SWITCHGEAR UPDATES, AS APPLICABLE.
2. DISTRIBUTION PANELS (HVAC POWER, RECEPTACLE PANELS, INCLUDING RE-WORKS OF LEGACY PANELS AS REQUIRED, ETC.)
3. EVALUATION / USE OF SUBSTRATE COMPONENTS IN GOOD CONDITION (ROOFS, CEILING/FLOORS, MISC. SUPPORTS, ETC.).

**D. MAIN EQUIPMENT LOCATIONS - GENERAL NOTES:**  
 COORDINATED WITH ESTABLISHED PROJECT GUIDELINES, PROPERLY DESIGN/LOCATE NEW MAIN ELECTRICAL EQUIPMENT FOR FUNCTIONALITY, SECURITY, SAFETY & SERVICING AND MAKE PREPARATIONS FOR ALL ASSOCIATED WORK REQUIRED BY OVERALL SCOPES OF WORK (PANELS, EQUIPMENT, CONTROLS, WALLS, CEILINGS, FLOORS, ETC.):

1. INDOOR SWITCHGEAR EQUIPMENT: IN EXISTING ACCESSIBLE/SERVICEABLE UTILITY ROOMS (COORDINATE MODIFICATIONS TO EXISTING INFRASTRUCTURES).

2. INDOOR PANEL / LOAD CENTER / CONTROL EQUIPMENT / EXISTING MECHANICAL / UTILITY SPACES AND EXISTING WALL LOCATIONS PREFERRED, SELECTED / CONSTRUCTED FOR HEAVY-DUTY ENVIRONMENTS.
3. UTILITY METERING DEVICES: LOCATED TO ACHIEVE FULL BUILDING CONSUMPTION/LOAD MONITORING. VERIFY LOCATIONS IN PIPING AND ELECTRICAL GEAR ON SITE. REFER TO MANUFACTURER RECOMMENDATIONS FOR SPECIFIC INSTALLATION.

**E. MAIN ELECTRIC RACEWAYS:**

1. DESIGN AND PROPERLY INSTALL MAIN ELECTRIC POWER FEEDS, RACEWAYS AND CABLES WITH INSULATION/ACCESS ACCORDING TO USUAL & CUSTOMARY METHODS AND PERTINENT REGULATIONS. INTENT IS NOT TO DISTURB FINISHED SUBSTRATE (WALLS, HARD CEILINGS, FLOORS) BEYOND WHAT IS REQUIRED FOR NEW SYSTEM IMPLEMENTATION.

**F. PERMIT DRAWINGS:**

1. EXPECTATION IS THAT THE PROPOSER DEVELOP PERMIT DRAWINGS AND OBTAIN REQUIRED PERMITS FROM ALL AUTHORITIES HAVING JURISDICTION OVER WORK OF THE PROJECT. THE PROPOSER SHALL DELIVER TO THE OWNER FOR APPROVAL A COMPLETE SET OF PROJECT DRAWINGS PRIOR TO SUBMISSION FOR PERMITTING.

**G. AS-BUILTS:**

1. EXPECTATION IS TO DELIVER THE OWNER A COMPLETE PROJECT AS-BUILT DRAWING SET INCLUDING EQUIPMENT SCHEDULES, FLOOR LAYOUTS, ELECTRICAL RECIRCUITING, HVAC PIPE & DUCT PATHS AND SIZES, ZONING LAYOUTS, SENSOR LOCATIONS, CONTROLLER DIAGRAMS, ARCHITECTURALS, ETC.

**ELECTRICAL INSTALLATION NOTES**

A. INSTALLATIONS ARE TO BE ACCOMPLISHED USING INDUSTRY STANDARD BEST PRACTICES, IN A NEAT AND ORDERLY MANNER AND ADHERING TO ALL APPLICABLE LOCAL, STATE, AND NATIONAL CODES. PROPOSER WILL CREATE FINAL DESIGN FOR NOTED ELECTRICAL SYSTEMS BASED ON PROJECT GOALS, OVERALL BENEFITS TO SYSTEM OPERATION, AND MAINTENANCE AND SITE LIMITATIONS.

B. NOTED AREAS OF NEW ELECTRICAL WORK MAY INVOLVE SELECT DEMOLITION OF EXISTING FIXTURES, CONDUIT, WALL SWITCHES, CONTROLS, ETC. AS REQUIRED AND COORDINATED WITH OTHER PROJECT DOCUMENTATION. ALL EQUIPMENT REMOVED IS TO BE COORDINATED WITH THE OWNER FOR SALVAGE RIGHTS. THAT MATERIAL WHICH IS NOT CLAIMED BY THE OWNER IS TO BE FULLY AND PROPERLY DISPOSED OF. CONDUIT, WIRING, MOUNTING ACCESSORIES NOT BEING REUSED ARE TO BE COMPLETELY REMOVED.

C. IT IS EXPECTED THAT A FINAL DESIGN/INSTALLATION DRAWING SET FOR NOTED UPDATES WILL BE PROVIDED BY THE PROPOSER DURING THE SUBMITTAL REVIEW PROCESS. PROPOSER WILL BE RESPONSIBLE FOR APPLICATION AND PAYMENT RELATED TO PERMITTING AND PLAN APPROVALS.

D. INTENT IS TO REPLACE ALL NOTED EXISTING FIXTURES OR LUMINAIRES WITH LED EQUIVALENTS OF SIMILAR DIMENSIONS AND APPROPRIATE LUMEN OUTPUT FOR THE SPACE AND FUNCTION. REFER TO PLAN NOTES FOR SPECIFIC DIRECTION. IT IS EXPECTED THAT ALL BALLASTS FOR EXISTING FIXTURES ARE TO BE REMOVED AND PROPERLY DISPOSED OF DURING THE COURSE OF THIS PROJECT. FINAL FIXTURE COUNTS, CONFIGURATIONS, MEASUREMENTS, LOCATIONS, PATHS, ETC. FOR THIS PROJECT MUST BE FIELD VERIFIED BY PROPOSER. PROPOSER WILL BE REQUIRED TO PRESENT DESIGNS FOR REFLECTED CEILING AND LIGHTING LAYOUTS DURING THE SUBMITTAL PHASE.

**PROJECT FORMAT OVERVIEW**

EACH DESIGN PROFESSIONAL UTILIZED IN CONTRACTOR'S PROPOSAL HAS THE LIBERTY TO ACT WITH THE OWNER'S BEST INTERESTS IN MIND, BASED ON THE INDIVIDUAL SITUATIONS AND BOUNDARIES PRESENTED BEFORE DESIGN BEGINS AND BASED ON QUALIFIED PROFESSIONAL EXPERIENCE. THE CRITERIA SET FORTH IN THESE SPECIFICATIONS AND DRAWINGS IS INTENDED TO BE A GUIDELINE TO LIMIT THE RISKS OF DISSATISFACTION OVER THE BALANCED TOTAL LIFE OF THIS PROJECT, THE FACILITY, AND THE OWNER. GENERAL GOALS ARE TO MAKE THE TASKS ASSOCIATED WITH LONG-TERM OWNING/MANAGING THE FACILITY AS EFFECTIVE AND EFFICIENT AS POSSIBLE, INCLUDING THE LIMITATION OF EQUIPMENT/SERVICE PROVIDERS TO THOSE NOTED AS BEING OWNER-PREFERRED AND/OR LISTED WITHIN THESE SPECIFICATIONS.

PROVIDE MATERIALS FOR COMPLETING MECHANICAL AND ASSOCIATED ELECTRICAL INSTALLATIONS AND OTHER FINISHES ACCORDING TO APPLICATIONS REQUIRED USING INDUSTRY STANDARD MEANS-AND-METHODS AND COMMON BEST PRACTICES.

THESE SCHEMATIC DRAWINGS SHOW INTENDED CONFIGURATION OF EQUIPMENT AND MATERIALS WHERE NOTED, ALONG WITH EXISTING CONFIGURATIONS, FOR REFERENCE. TO NEW WORK AND DEMOLITION SCOPES. THEY ARE NOT INTENDED TO BE, AND SHOULD NOT BE CONSTRUED AS, COMPLETE DESIGN DRAWINGS. THE CONTRACTOR IS RESPONSIBLE FOR THE CONTRACTOR'S FINAL DESIGN

COORDINATE REMOVAL OF EXISTING AND INSTALLATION OF NEW EQUIPMENT, FIXTURES AND FURNISHINGS WITH INFRASTRUCTURE ALREADY IN-PLACE. CONTRACTOR IS HIGHLY ENCOURAGED TO FIELD VERIFY ALL COUNTS, MEASUREMENTS, DIMENSIONS AND PATHS. NO CHANGE ORDERS WILL BE ISSUED FOR FAILURE ON THE PART OF THE CONTRACTOR TO FIELD VERIFY EXISTING CONDITIONS. DESIGNS AND WORK SHALL COMPLY WITH APPLICABLE REQUIREMENTS OF NATIONAL, STATE & LOCAL CODES AND BEST PRACTICES.

**PROJECT SCOPE BREAKDOWN**

**BASE SCOPE:**

(A) DEMOLITION AND REMOVAL OF THE EXISTING ELECTRICAL MAIN DISTRIBUTION PANELS AND ELECTRICAL PANELBOARDS.

(B) PROVIDE AND INSTALL THE FOLLOWING:

- PANEL MD - 1000 AMP SWITCHGEAR
- TRANSFORMER - 150 KVA DRY TYPE
- PANEL DP - 600 AMP MAIN BREAKER
- PANEL AA - 225 AMP MLO PANEL
- PANEL C - 225 AMP MLO PANEL
- PANEL CC - 225 AMP MLO PANEL
- PANEL KK - 225 AMP MLO PANEL

(C) ALL PANELS SHALL BE REPLACED WITH MATCHING EXISTING BREAKERS. PROPOSER TO VERIFY BREAKER SIZES PRIOR TO ORDERING PANELS.

(D) PROPOSER SHALL COORDINATE SHUTDOWNS WITH THE OWNER AND ANY SHUTDOWNS SHALL OCCUR ON THE WEEKEND OR WHEN SCHOOL IS NOT IN SESSION.

(E) PROPOSER SHALL PROVIDE ANY TEMPORARY POWER REQUIRED TO MAINTAIN ANY REQUIRED LIFE SAFETY EQUIPMENT.

(F) PROVIDE UPDATED PANEL INDEXES.

**ALTERNATE E-1:**

(A) PROPOSER TO PROVIDE PRICING TO TRACE ALL EXISTING CIRCUITS IN THE PANELS THAT ARE BEING REPLACED.

**DRAWING INDEX**

<b>C001</b>	<b>COVER PAGE</b>
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<b>E101</b>	<b>ELECTRICAL FLOOR PLAN - NORTH WING</b>
<b>E102</b>	<b>ELECTRICAL FLOOR PLAN - SOUTH WING</b>
<b>E103</b>	<b>ELECTRICAL FLOOR PLAN - PHYSICAL EDUCATION</b>
<b>E200</b>	<b>ELECTRICAL ONE-LINE AND SCHEDULES</b>



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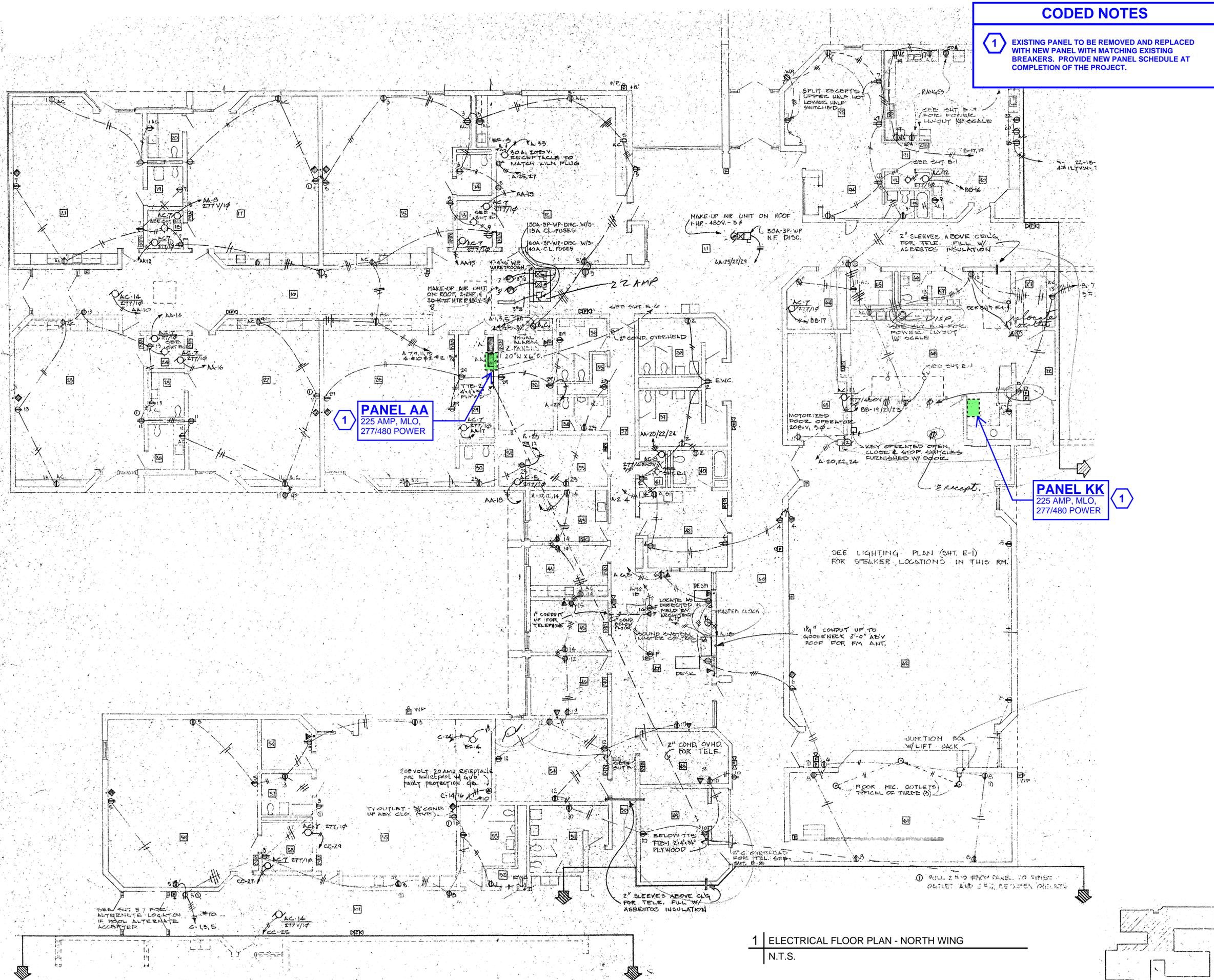


**BOARD OF DEVELOPMENTAL  
 DISABILITIES**  
**FOREST ROSE SCHOOL  
 ELECTRICAL INFRASTRUCTURE  
 IMPROVEMENTS**

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**GENERAL  
 NOTES**

**G001**



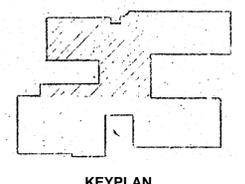
**CODED NOTES**

1 EXISTING PANEL TO BE REMOVED AND REPLACED WITH NEW PANEL WITH MATCHING EXISTING BREAKERS. PROVIDE NEW PANEL SCHEDULE AT COMPLETION OF THE PROJECT.

1 **PANEL AA**  
225 AMP, MLO,  
277/480 POWER

1 **PANEL KK**  
225 AMP, MLO,  
277/480 POWER

1 | ELECTRICAL FLOOR PLAN - NORTH WING  
N.T.S.



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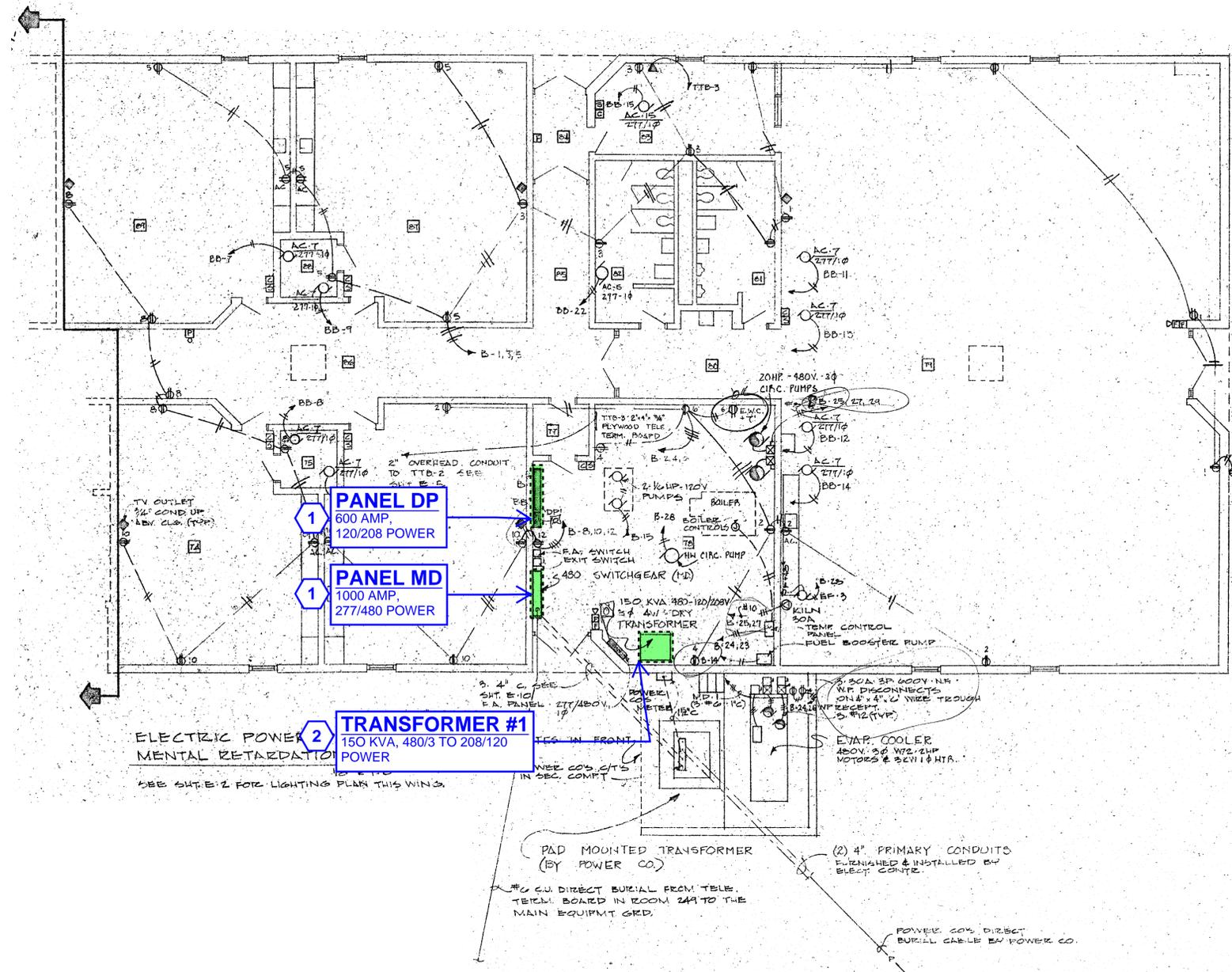
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**ELECTRICAL  
FLOOR PLAN -  
NORTH WING**

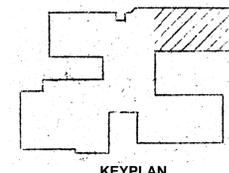
**E101**

**CODED NOTES**

- 1 EXISTING PANEL TO BE REMOVED AND REPLACED WITH NEW PANEL WITH MATCHING EXISTING BREAKERS. PROVIDE NEW PANEL SCHEDULE AT COMPLETION OF THE PROJECT.
- 2 EXISTING TRANSFORMER TO BE REMOVED AND REPLACED WITH NEW TRANSFORMER TO MATCH EXISTING.



1 | ELECTRICAL FLOOR PLAN - SOUTH WING  
N.T.S.



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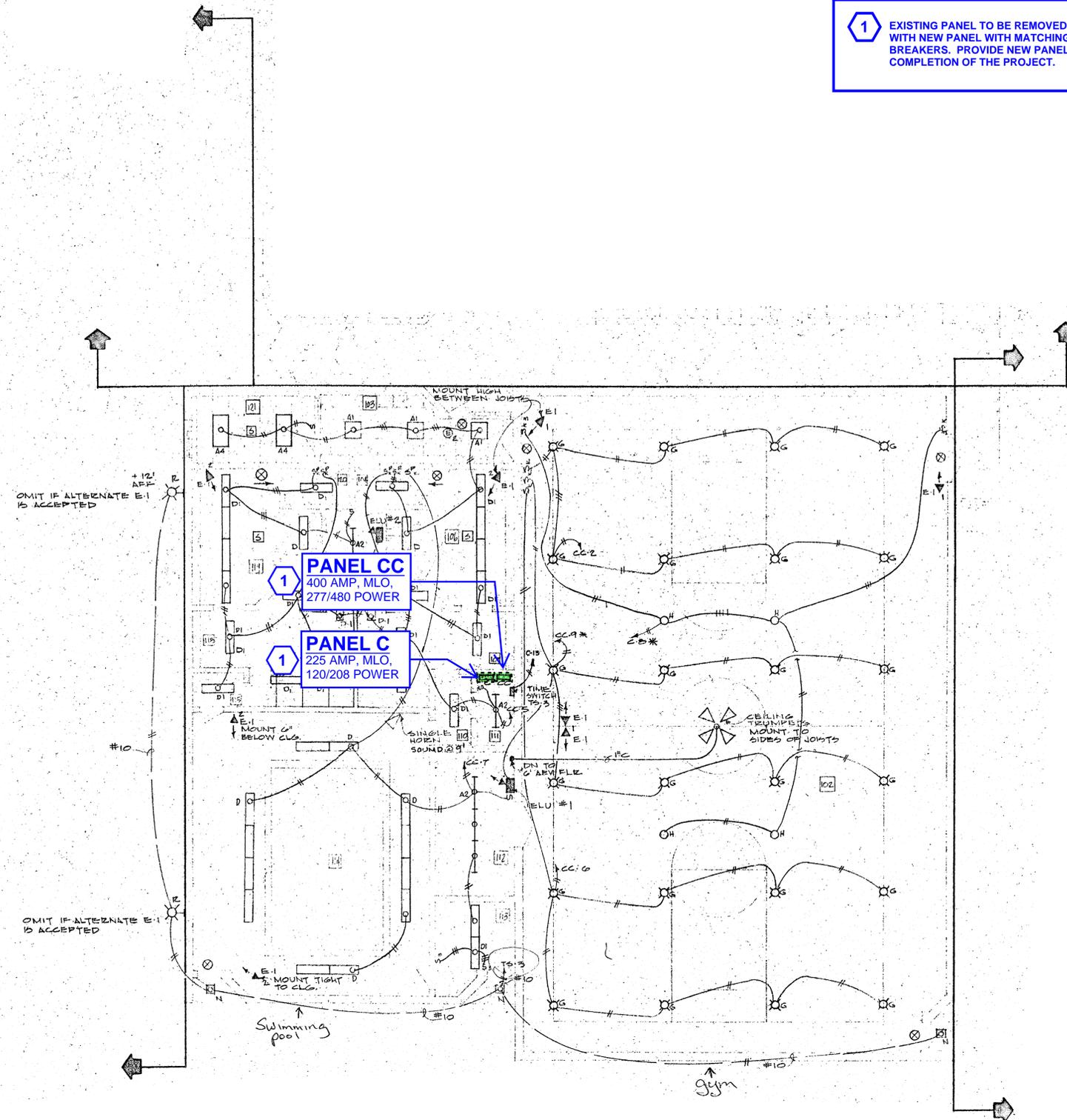
**ELECTRICAL  
FLOOR PLAN -  
SOUTH WING**

**E102**

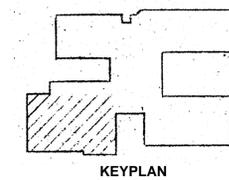
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1 ELECTRICAL FLOOR PLAN - PHYSICAL ED WING  
N.T.S.



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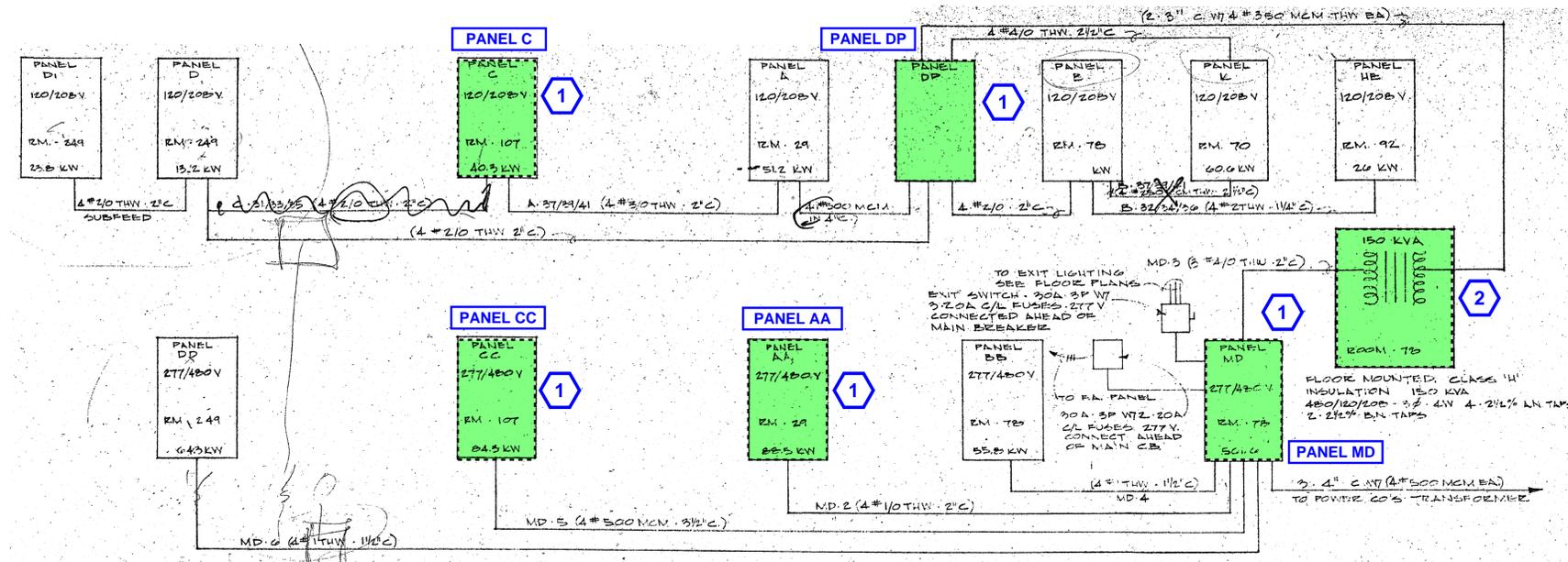


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**FOREST ROSE SCHOOL  
 ELECTRICAL INFRASTRUCTURE  
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**ELECTRICAL  
 FLOOR PLAN -  
 PHYSICAL ED  
 WING**

**E103**



**CODED NOTES**

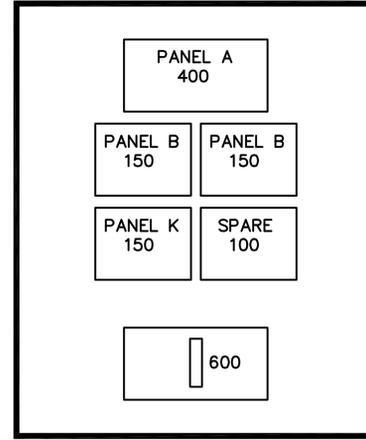
1 EXISTING PANEL TO BE REMOVED AND REPLACED WITH NEW PANEL WITH MATCHING EXISTING BREAKERS. PROVIDE NEW PANEL SCHEDULE AT COMPLETION OF THE PROJECT.

2 EXISTING TRANSFORMER TO BE REMOVED AND REPLACED WITH NEW TRANSFORMER TO MATCH EXISTING.

1 ELECTRICAL ONE LINE DIAGRAM - EXISTING  
N.T.S.

---	70	125	PANEL BB
COOL. TWR.	50	20	PHASE LOSS
SPARE	125	125	PANEL BB
TRMFR	225	150	PANEL AA
PANEL CC	350	---	BLANK

PANEL MD



PANEL DP

CIR.	BRKR	BRKR	CIR.
1	20/3	50/3	2
3			4
5			6
7	20/3	20/1	8
9			10
11			12
13	20/1	20/1	14
15			16
17			18
19	20/1	20/1	20
21			22
23			24
25	20/1	20/1	26
27			28
29			30
31	20/3	20/1	32
33			34
35			36

PANEL AA

CIR.	BRKR	BRKR	CIR.
1	20/1	20/1	2
3			4
5			6
7	20/1	20/1	8
9			10
11			12
13	20/1	20/1	14
15			16
17			18
19	20/1	20/1	20
21			22
23			24
25	20/1	20/1	26
27			28
29			30
31	30/2	30/2	32
33			34
35			36
37	40/3	BLANK	38
39			40
41			42

PANEL C

CIR.	BRKR	BRKR	CIR.
1	20/1	20/1	2
3			4
5			6
7	20/1	20/1	8
9			10
11			12
13	20/1	20/3	14
15			16
17			18
19	20/1	20/3	20
21			22
23			24
25	20/1	20/3	26
27			28
29			30
31	20/1	20/3	32
33			34
35			36
37	100/3	40/3	38
39			40
41			42

PANEL CC

CIR.	BRKR	BRKR	CIR.
1	30/3	100/3	2
3			4
5			6
7	30/3	20/3	8
9			10
11			12
13	20/1	30/3	14
15			16
17			18
19	20/1	30/2	20
21			22
23			24
25	20/1	20/2	26
27			28
29			30
31	20/3	20/3	32
33			34
35			36
37	20/1	15/3	38
39			40
41			42

PANEL KK



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**ELECTRICAL ONE-LINE AND PANEL SCHEDULES**