

FARMINGTON PUBLIC SCHOOLS

Structured Cabling RFP

Appendix C

Building Prints

December 2025

Appendix C - Technology Design Key

Technology Design – Structured Cabling Components

- 

New Data Cable
(Existing location with cabling to be demolished unless otherwise noted)
- 

Existing Data Cable
- 

Existing Category 6 Data Cable to Remain
(Vendor to ensure jacks are blue – existing orange jacks to be replaced)
- 

Security Data Cable
- 

Wireless Access Point
(1 cable per location unless otherwise noted)
- 

Main Distribution Frame
- 

Intermediate Distribution Frame

Technology Design – Audio/Visual Components

- 

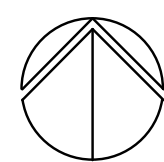
Interactive Flat Panel
- 

Non-Interactive Display Monitor
- 

Projector Screen
- 

Projector
- 

Teacher Station Location



FIRST FLOOR POWER PLAN - ZONE 'A'
SCALE: 1/8" = 1' - 0"

3. THESE DRAWINGS REPRESENT THE GENERAL EXIST AND ARRANGEMENT OF SYSTEMS. COORDINATE EXIST EQUIPMENT LOCATIONS, ELEVATIONS, FINAL CONNECTION REQUIREMENTS AND PROVIDE EACH SYSTEM COMPLETE INCLUDING ALL NECESSARY COMPONENTS, FITTINGS AND OFFSETS.
4. INSTALL SYSTEMS SUCH THAT REQUIRED CLEARANCE AND SERVICE ACCESS SPACE IS PROVIDED AROUND ALL MECHANICAL AND ELECTRICAL EQUIPMENT, AND AROUND ANY COMPONENTS WHICH REQUIRE SERVICE ACCESS.
5. COORDINATE AND PROVIDE ACCESS DOORS WITHIN INACCESSIBLE CEILING, SHAF AND CHASE AREAS FOR ALL COMPONENTS WHICH REQUIRE SERVICE ACCESS. REFER TO ARCHITECTURAL DRAWINGS FOR CEILING TYPES.
6. PROVIDE SUPPLEMENTARY STEEL AS REQUIRED FOR THE PROPER SUPPORT OF ALL SYSTEMS.
7. TRANSFORMER STANDARD CONDUCTORS SHALL BE SIZED IN ACCORDANCE WITH TRANSFORMER SCHEDULE DRAWING SCHEDULE SHOWN ON "ELECTRICAL STANDARD SCHEDULES DRAWING" UNLESS OTHERWISE NOTED.
8. MOTOR CIRCUIT PROTECTION SHALL BE SIZED IN ACCORDANCE WITH MOTOR CIRCUIT SIZED SCHEDULES SHOWN ON "ELECTRICAL STANDARD SCHEDULES DRAWING" UNLESS OTHERWISE NOTED.
9. COORDINATE THE MOUNTING HEIGHTS OF DEVICES WITH ARCHITECTURAL ELEVATIONS AND THE TRADES INSTALLING THE WORK.
10. COORDINATE EXIST LOCATIONS OF ALL FLOOR SERVICE FITTINGS AND POKE-THROUGH ASSEMBLIES WITH FINAL FURNITURE LAYOUT DRAWINGS.
11. REFER TO MECHANICAL SCHEDULE SHEETS FOR ELECTRICAL REQUIREMENTS FOR MECHANICAL EQUIPMENT. PROVIDE ALL CONNECTIONS, STARTERS, DISCONNECTS, ETC. AS REQUIRED BY SCHEDULES AND WHERE NOTED ELSEWHERE. VERIFY REQUIREMENTS OF ALL MECHANICAL EQUIPMENT WITH SHOP DRAWINGS SUBMITTALS. NOTIFY ENGINEER OF ANY CONFLICTS BETWEEN EQUIPMENT SUBSHEMALS AND ELECTRICAL DRAWINGS. WHERE CIRCUIT SIZES ARE SHOWN ON THE ELECTRICAL DRAWINGS THAT DEPARTS WHAT IS INDICATED ON THE MECHANICAL SCHEDULES, PROVIDE THE CIRCUIT OF HIGHER AMPACITY.
12. REFER TO TEMPERATURE CONTROLS SHEETS FOR REQUIRED FIRE ALARM CONTROL MODULES, DUST SMOKE DETECTORS, AND MOTOR CONTROLLERS. PROVIDE ALL ACCESSORIES INDICATED.
13. REFER TO LIGHTING CONTROL SCHEDULE FOR ROOM CONTROL AND EMERGENCY LIGHTING CIRCUIT REQUIREMENTS. DESIGNATION FOR ROOM IS INDICATED AS A LETTERED ABBY SYMBOL.
14. ALL EXHAUST FANS ARE LOCATED ON THE ROOF UN.L.O.
15. ALL FIRE ALARM DEVICES SHALL BE COMPATIBLE WITH EXISTING NATIONAL TYPE 902 FIRE ALARM SYSTEM. PROVIDE NECESSARY COMPONENTS, MODULES, ETC. AS REQUIRED FOR FULLY FUNCTIONAL SYSTEM. RE-TEST AND CERTIFY EXISTING FIRE ALARM SYSTEM AT COMPLETION OF PROJECT.

1. PROVIDE NEW 200KV NATIONAL WAVE GENERATOR AND GENERATOR ANNUNCIATOR. CONTACT GENERATOR TO EXISTING FEEDERS AND BRANCH CIRCUITS. PROVIDE NEW CONTROL WIRING AND GENERATOR ANNUNCIATOR WIRING AS REQUIRED.
2. PROVIDE NEW NATIONAL TIME AND SIGNAL DL2U225,DL2U400 DIGITAL CLOCK SYSTEM. DULUZZ SHALL BE USED IN CORRIDORS, GYMNASIUMS, AND OTHER LARGE SPACES. DL400 SHALL BE USED IN CORRIDORS, GYMNASIUMS, AND OTHER LARGE SPACES. EXISTING CLOCK SYSTEM IS TO BE REUSED.
3. DISCONNECT AND RECONNECT EXISTING POWER TO NEW SCOREBOARD. EXTEND CONDUIT AND WIRING AS REQUIRED.
4. POOL MECHANICAL ROOM IS CONSIDERED A CORROSIVE ENVIRONMENT. PROVIDE NEW CIRCUITING PER NEC 680.14. COORDINATE ALL POOL EQUIPMENT LOCATIONS WITH POOL CONTRACTOR.
5. ALTERNATE 5: EXISTING CORD DROPS TO BE REPLACED WITH NEW CORD RIGS. DULUZZ SHALL BE USED FOR ALL EXISTING RECEPTACLE AND PHOTO BASES. ELECTRICAL CONTRACTOR TO VERIFY LOCATIONS. CONNECT TO EXISTING WIRING. EXTEND CONDUIT AND WIRING AS REQUIRED. PROVIDE ALL MISCELLANEOUS MOUNTING STEEL.
6. ALTERNATE 5: PROVIDE RECEPTACLE AND DATA DEVICE ON FACE OF EXISTING MEZZANINE FLOOR FRAMING FOR NEW T.V. LOCATION. COORDINATE EXIST LOCATIONS WITH ARCHITECT.
7. ALTERNATE 5: PROVIDE POWER TO NEW LIFT. PROVIDE POWER REQUIREMENTS WITH LIFT MANUFACTURER. COORDINATE EXIST LOCATION WITH ARCHITECT.
8. CIRCUIT MECHANICAL EQUIPMENT TO MAINTAINED BRANCH CIRCUIT. EXTEND CONDUIT AND WIRE AS REQUIRED.
9. PROVIDE NEW GENERATOR DOCKING STATION, REFER TO ONE LINE DIAGRAM.
10. ALTERNATE 5: NEW EXHAUST FANS, CROSSLIFT NEW MECHANICAL EQUIPMENT AS INDICATED ON PLANS.
11. DUCT SMOKE DETECTORS. COORDINATE REQUIRED QUANTITIES AND MOUNTING LOCATIONS WITH DUCT WORK TO MEET CODE. PROVIDE 4 DUCT SMOKE DETECTORS TO BE USED FOR ALL EXHAUST FANS. ALL QUANTITIES WILL BE ADJUSTED IN FIELD. BASE ON DUCT WORK PENETRATIONS AND ROUTING LOCATIONS. COORDINATE INSTALLATION WITH THE MECHANICAL DUCT WORK SO THAT UPON DETECTION OF SMOKE, EXHAUST FANS WILL BE SHUT DOWN. PROVIDE ALL WIRING FOR DUCT SMOKE DETECTOR TO FIRE ALARM SYSTEM. CONTROL OF AIR HANDLING EQUIPMENT IS VIA THE FIRE ALARM CONTROL PANEL. PROVIDE ALL REQUIRED FIRE ALARM MODULES AND RELAYS TO INTERFACE WITH SUPPLY FAN AND ASSOCIATED RETURN FAN (OR EXHAUST FAN). PROVIDE ALL CONTROL MODULES, RELAYS, ETC. FOR A COMPLETE OPERATING SYSTEM.
12. DISCONNECT POWER FROM EXISTING MECHANICAL UNIT TO ALLOW MECHANICAL TRADES TO REPLACE INTERNAL COMPONENTS OF UNIT. PROVIDE ADDITIONAL WIRING AS REQUIRED FOR NEW UNIT VENTILATING FAN MOTOR. RECONNECT POWER TO UNIT AS COORDINATED WITH MECHANICAL TRADES. AFTER MECHANICAL TRADES HAVE REPLACED INTERNAL COMPONENTS OF UNIT.
13. SMOKE DAMPER DUCT SMOKE DETECTOR SHALL BE PROVIDED BY THE ELECTRICAL CONTRACTOR. COORDINATE INSTALLATION WITH THE MECHANICAL CONTRACTOR. ELECTRICAL CONTRACTOR SHALL WIRE DUCT SMOKE DETECTOR TO FIRE ALARM SYSTEM AND SHUT DOWN EXHAUST ACTUATOR TO THE NEAREST 120 VOLT CIRCUIT. ELECTRICAL CONTRACTOR SHALL TIE INTO RECEPTACLE CIRCUIT WITH A 20A-IP SWITCH TO DISCONNECT THE DAMPER ACTUATORS. CONTROL WIRING/INTERLOCK TO AIR HANDLING UNIT IS BY THE TEMPERATURE CONTROL CONTRACTOR.
14. ALTERNATE 5: FUSE NEW EXHAUST FANS AT 5 AMPS, FIELD VERIFY LOCATION OF COMBINATION STATION.
15. ALTERNATE 5: CIRCUIT MECHANICAL EQUIPMENT TO MAINTAINED BRANCH CIRCUIT. EXTEND CONDUIT AND WIRE AS REQUIRED.
16. 4" SO-80 MOUNTED NEXT TO "CHEMICAL CONTROLLER". POOL CONTRACTOR SHALL PROVIDE CIRCUITING FROM EXISTING TO CHEMICAL CONTROLLER TO POWER THE RECEPTABLES AS INDICATED. COORDINATE WORK WITH POOL CONTRACTOR.
17. 2#12#1 @20RD, 3/4"C FROM CHEMICAL CONTROLLER BOX TO GFI RECEPTACLE.
18. GFI RECEPTACLE FOR "ACQU-A-BEEDER".
19. GFI QUAD RECEPTACLE FOR "U.V. UNIT".
20. GFI RECEPTACLE FOR "OZD FEEDER".
21. INTERCEPT EXISTING 199P POOL PUMP CIRCUITING BY 30A-SP, NEMA 4X (FIBERGLASS) NONMOTOR SWITCH AND FIELD VERIFY CIRCUIT THAT SERVES THE (2) NEW POOL PUMPS.
22. THE EXISTING #6 BAR COPPER BONDING CONDUCTOR (PER NEC 680.26) SHALL BE EXTENDED FROM THE EXISTING POOL PUMP MOTOR AND EXTENDED TO THE NEW POOL PUMP MOTORS. THIS #6 BAR COPPER BONDING CONDUCTOR SHALL ALSO BE EXTENDED TO THE NEW POOL EQUIPMENT: WFC, ACQU-A-BEEDER AND U.V. UNIT.
23. STAND-BY GENERATOR RECEPTACLE FOR #6R /#6F RACK. COORDINATE EXIST LOCATION WITH OWNER/PMC. RECEPTACLE COLOR SHALL BE RED.
24. STAND-BY GENERATOR RECEPTACLE FOR EXISTING POWER OUTAGE. COORDINATE EXIST LOCATION WITH OWNER/PMC. RECEPTACLE COLOR SHALL BE RED.

**FIRST FLOOR POWER PLAN -
ZONE 'A'**

KEY PLAN
NO SCALE

PRELIMINARY ☐

DESIGN DEVELOPMENT ☐

CONSTRUCTION ☒

FINAL RECORD ☐

DRAWN BY: GBS

CHECKED BY: GJZ

REVISIONS:

NO.	DESCRIPTION	DATE
1	CONSTRUCTION	10-01-2021

DATE: AUGUST 19, 2021

SHEET NO.: 1

JOB NO. 201879

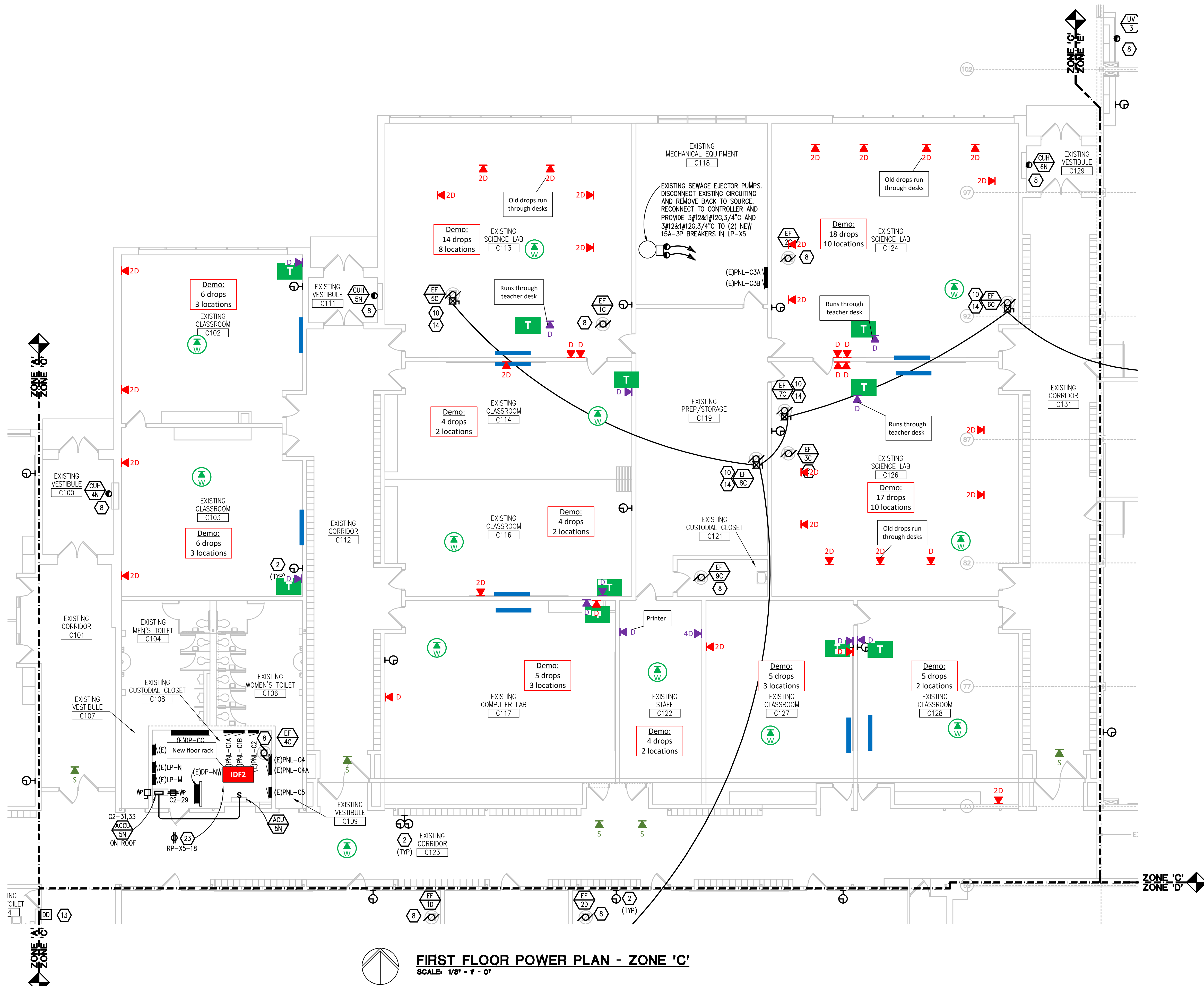
 FIRST FLOOR POWER PLAN - ZONE 'B'
SCALE: 1/8" = 1' - 0"

ELECTRICAL GENERAL NOTES:

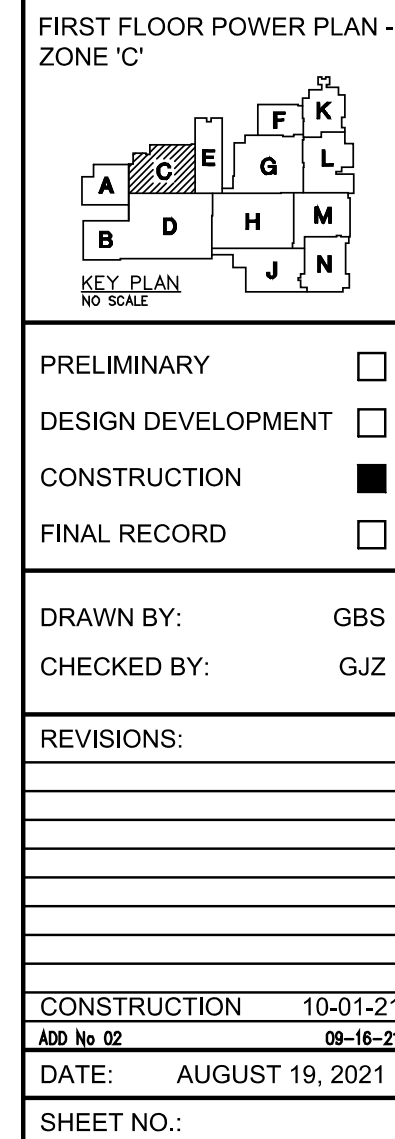
3. THESE DRAWINGS REPRESENT THE GENERAL EXIST AND ARRANGEMENT OF SYSTEMS. COORDINATE EXIST EQUIPMENT LOCATIONS, ELEVATIONS, FINAL CONNECTION REQUIREMENTS AND PROVIDE EACH SYSTEM COMPLETE INCLUDING ALL NECESSARY COMPONENTS, FITTINGS AND OFFSETS.
4. INSTALL SYSTEMS SUCH THAT REQUIRED CLEARANCE AND SERVICE ACCESS SPACE IS PROVIDED AROUND ALL MECHANICAL AND ELECTRICAL EQUIPMENT, AND AROUND ANY COMPONENTS WHICH REQUIRE SERVICE ACCESS.
5. COORDINATE AND PROVIDE ACCESS DOORS WITHIN INACCESSIBLE CEILING, SHAF AND CHASE AREAS FOR ALL COMPONENTS WHICH REQUIRE SERVICE ACCESS. REFER TO ARCHITECTURAL DRAWINGS FOR CEILING TYPES.
6. PROVIDE SUPPLEMENTARY STEEL AS REQUIRED FOR THE PROPER SUPPORT OF ALL SYSTEMS.
7. TRANSFORMER SECONDARY CONDUCTORS SHALL BE SIZED IN ACCORDANCE WITH TRANSFORMER CIRCUIT SCHEDULES SHOWN ON "ELECTRICAL STANDARD SCHEDULES DRAWING" UNLESS OTHERWISE NOTED.
8. MOTOR CIRCUIT PROTECTION SHALL BE SIZED IN ACCORDANCE WITH MOTOR CIRCUIT SIZED SCHEDULES SHOWN ON "ELECTRICAL STANDARD SCHEDULES DRAWING" UNLESS OTHERWISE NOTED.
9. COORDINATE THE MOUNTING HEIGHTS OF DEVICES WITH ARCHITECTURAL ELEVATIONS AND THE TRADES INSTALLING THE WORK.
10. COORDINATE EXIST LOCATIONS OF ALL FLOOR SERVICE FITTINGS AND POKE-THROUGH ASSEMBLIES WITH FINAL FURNITURE LAYOUT DRAWINGS.
11. REFER TO MECHANICAL SCHEDULE SHEETS FOR ELECTRICAL REQUIREMENTS FOR MECHANICAL EQUIPMENT. PROVIDE ALL CONNECTIONS, STARTERS, DISCONNECTS, ETC AS REQUIRED BY SCHEDULES AND WHERE NOTED ELSEWHERE. VERIFY REQUIREMENTS OF ALL MECHANICAL EQUIPMENT WITH SHOP DRAWINGS SUBMITTALS. NOTIFY ENGINEER OF ANY CONFLICTS BETWEEN EQUIPMENT SUBMITTALS AND ELECTRICAL DRAWINGS. WHERE CIRCUIT SIZES ARE SHOWN ON THE ELECTRICAL DRAWINGS THAT DEPEND FROM THAT IS NOTED ON THE MECHANICAL SCHEDULES, PROVIDE THE CIRCUIT OF HIGHER AMPACITY.
12. REFER TO TEMPERATURE CONTROLS SHEETS FOR REQUIRED FIRE ALARM CONTROL MODULES, DUST SMOKE DETECTORS, AND MOTOR CONTROLLERS. PROVIDE ALL ACCESSORIES INDICATED.
13. REFER TO LIGHTING CONTROL SCHEDULE FOR ROOM CONTROL AND EMERGENCY LIGHTING CIRCUIT CONTROL REQUIREMENTS. DESIGNATION FOR ROOM IS INDICATED AS A LETTERED ALPH SYMBOL.
14. ALL EXHAUST FANS ARE LOCATED ON THE ROOF U.N.O.
15. ALL FIRE ALARM DEVICES SHALL BE COMPATIBLE WITH EXISTING NATIONAL TYPE 902 FIRE ALARM SYSTEM. PROVIDE NECESSARY COMPONENTS, MODULES, ETC. AS REQUIRED TO FULLY FUNCTIONAL SYSTEM. RE-TEST AND CERTIFY EXISTING FIRE ALARM SYSTEM AT COMPLETION OF PROJECT.

CONSTRUCTION KEY NOTES:

1. PROVIDE NEW 200KV NATURAL GAS GENERATOR AND GENERATOR ANNUNCIATOR. CONNECT GENERATOR TO EXISTING FEEDERS AND BRANCH CIRCUITS. PROVIDE NEW CONTROL, WIRING AND GENERATOR ANNUNCIATOR AS REQUIRED.
2. PROVIDE NEW NATIONAL TIME AND SIGNAL DL0225/PL0400 DIGITAL CLOCK SYSTEM. DL0225 SHALL BE USED IN OFFICES, CLASSROOMS AND OTHER SMALL SPACES. DL1400 SHALL BE USED IN CORRIDORS, GYMNASIUMS, AND OTHER LARGE SPACES. EXISTING CLOCK SYSTEM WIRING TO BE REUSED.
3. DISCONNECT AND RECONNECT EXISTING POWER TO NEW SCOREBOARD, EXTEND CONDUIT AND WIRING AS REQUIRED.
4. POOL MECHANICAL ROOM IS CONSIDERED A CORROSIVE ENVIRONMENT. PROVIDE NEW CIRCUITING PER NEC 680.14. COORDINATE ALL POOL EQUIPMENT LOCATIONS WITH POOL CONTRACTOR.
5. ALTERNATE 5: EXISTING CORD DROPS TO BE REPLACED WITH NEW CORD CORE REELING. HUBBELL MODEL: 4854923 WITH DUPLEX RECEPTACLE AND PIVOT BASE. ELECTRICAL CONTRACTOR SHALL PROVIDE ALL MATERIALS AND LABOR FOR EXISTING CIRCUITING, EXTEND CONDUIT AND WIRING AS REQUIRED; PROVIDE ALL MISCELLANEOUS MOUNTING SLEEVES.
6. ALTERNATE 5: PROVIDE RECEPTACLE AND DATA DEVICE ON FACE OF EXISTING MEZZANINE FLOOR FRAMING FOR NEW T.V. LOCATION. COORDINATE EXACT LOCATION WITH ARCHITECT.
7. ALTERNATE 5: PROVIDE POWER TO NEW LIFT. COORDINATE POWER REQUIREMENTS WITH LIFT MANUFACTURER. COORDINATE EXACT LOCATION WITH ARCHITECT.
8. CIRCUIT MECHANICAL EQUIPMENT TO MAINTAINED BRANCH CIRCUIT. EXTEND CONDUIT AND WIRE AS REQUIRED.
9. PROVIDE NEW GENERATOR DOCKING STATION, REFER TO ONE LINE DIAGRAM.
10. ALTERNATE 5: NEW EXHAUST FANS. PROVIDE NEW MECHANICAL EQUIPMENT AS INDICATED ON PLANS.
11. DUCT SMOKE DETECTORS: COORDINATE REQUIRED QUANTITIES AND MOUNTING LOCATIONS WITH DUCT WORK TO MEET CODE. PROVIDE 4 DUCT SMOKE DETECTORS PER AHU/RTU/AC FOR BUD PURPOSES. QUANTITIES WILL BE ADJUSTED IN FIELD BASED ON DUCT WORK PENERATIONS AND ROUTING LOCATIONS). COORDINATE WITH THE MECHANICAL CONTRACTOR. THE MECHANICAL CONTRACTOR SHALL PROVIDE SMOKE, THE SUPPLY/RETURN FAN WILL SHUT DOWN. CONTRACTOR SHALL WIRE DUCT SMOKE DETECTORS TO FIRE ALARM SYSTEM. CONTROL OF AIR HANDLING EQUIPMENT BY THE FIRE ALARM CONTROL PANEL. PROVIDE ALL REQUIRED FIRE ALARM CONTROL MODULES AND RELAYS TO INTERFACE WITH SUPPLY FAN AND ASSOCIATED RETURN FAN (OR EXHAUST FAN). PROVIDE ALL CONTROL MODULES, RELAYS, ETC. FOR A COMPLETE OPERATING SYSTEM.
12. DISCONNECT POWER FROM EXISTING MECHANICAL UNIT TO ALLOW MECHANICAL TRADES TO REPLACE INTERNAL COMPONENTS OF UNIT. PROVIDE ADDITIONAL WIRING AS REQUIRED FOR NEW UNIT. INSTALLER/ELC MOTOR. RECONNECT POWER AT THE AS COORDINATED WITH MECHANICAL TRADES. AFTER MECHANICAL TRADES HAS REPLACED INTERNAL COMPONENTS OF UNIT.
13. SMOKE DAMPER DUCT SMOKE DETECTOR SHALL BE PROVIDED BY THE ELECTRICAL CONTRACTOR. COORDINATE INSTALLATION WITH THE MECHANICAL CONTRACTOR. ELECTRICAL CONTRACTOR SHALL WIRE DUCT SMOKE DETECTOR TO FIRE ALARM SYSTEM, AND CIRCUIT DAMPER ACTUATOR TO THE NEAREST 120 VOLT CIRCUIT (ELECTRICAL CONTRACTOR SHALL BE IN RECEPTACLE CIRCUIT WITH A 20-A IP CIRCUIT BREAKER). ELECTRICAL CONTRACTOR SHALL PROVIDE ALL MATERIALS AND AIR HANDLING EQUIPMENT IS BY THE TEMPERATURE CONTROL CONTRACTOR.



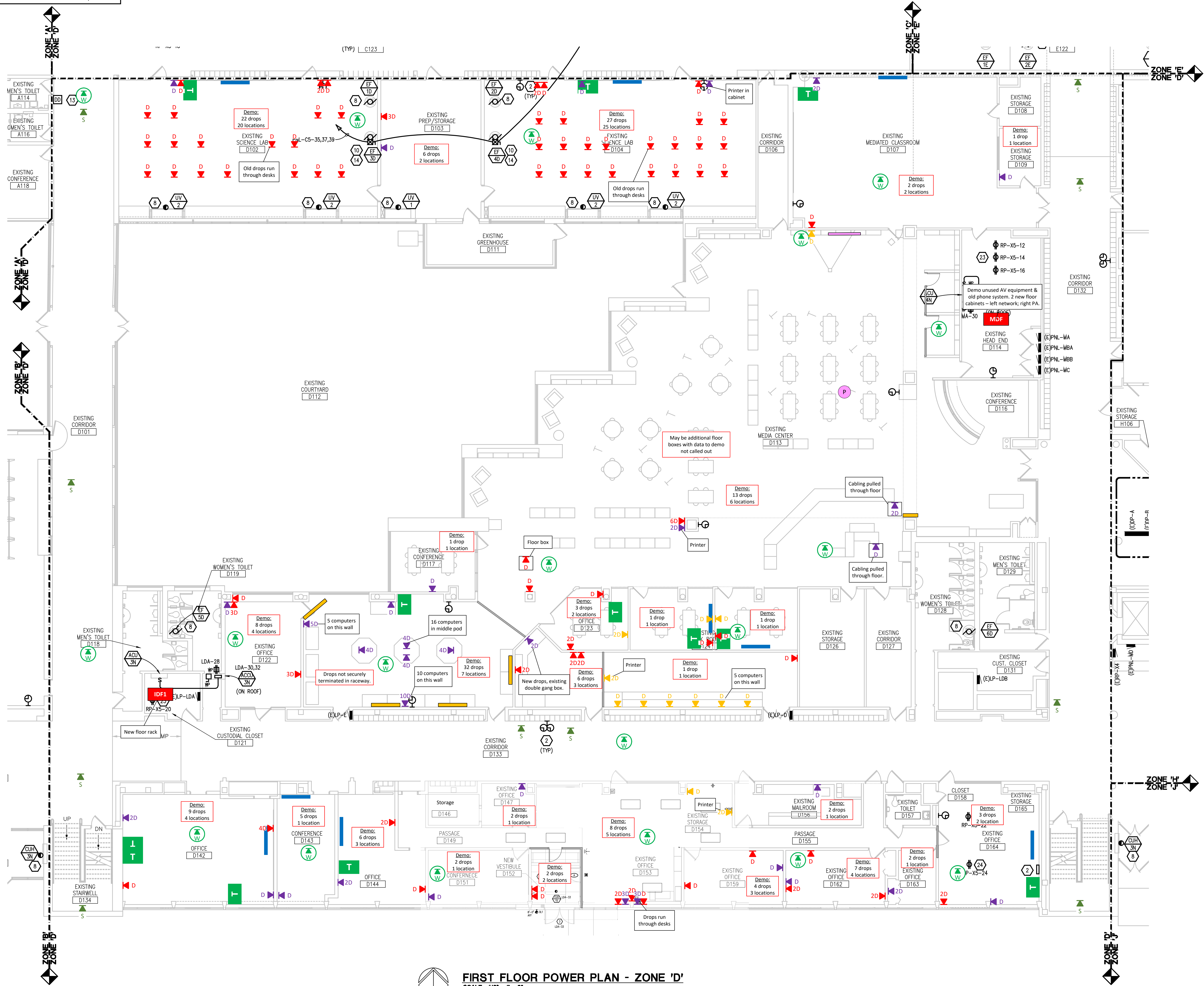
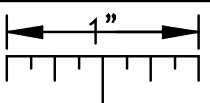
FIRST FLOOR POWER PLAN - ZONE 'C'
SCALE: 1/8" = 1' - 0"



E3.1C

JOB NO. 201879

THE FOLLOWING DIMENSION EQUALS ONE INCH WHEN PRINTED TO SCALE.



FIRST FLOOR POWER PLAN - ZONE 'D'
SCALE: 1/8" = 1' - 0"

ELECTRICAL GENERAL NOTES:

- THESE DRAWINGS REPRESENT THE GENERAL EXTENT AND ARRANGEMENT OF SYSTEMS, COORDINATE EXACT EQUIPMENT LOCATIONS, ELEVATIONS, FINAL CONNECTION REQUIREMENTS AND PROVIDE EACH SYSTEM COMPLETE INCLUDING ALL NECESSARY COMPONENTS, FITTINGS AND OFFSETS.
- INSTALL SYSTEMS SUCH THAT REQUIRED CLEARANCE AND SERVICE ACCESS SPACE IS PROVIDED AROUND ALL MECHANICAL AND ELECTRICAL EQUIPMENT, AND AROUND ANY COMPONENTS WHICH REQUIRE SERVICE ACCESS.
- COORDINATE AND PROVIDE ACCESS DOORS WITHIN INACCESSIBLE CEILING, SHAFT, AND CHASE AREAS FOR ALL COMPONENTS WHICH REQUIRE SERVICE ACCESS. REFER TO ARCHITECTURAL DRAWINGS FOR CEILING TYPES.
- PROVIDE SUPPLEMENTARY STEEL AS REQUIRED FOR THE PROPER SUPPORT OF ALL SYSTEMS.
- TRANSFORMER SECONDARY CONDUCTORS SHALL BE SIZED IN ACCORDANCE WITH TRANSFORMER CIRCUIT SIZING SCHEDULE SHOWN ON ELECTRICAL STANDARD SCHEDULES DRAWING UNLESS OTHERWISE NOTED.
- MOTOR CIRCUIT PROTECTION SHALL BE SIZED IN ACCORDANCE WITH MOTOR CIRCUIT SIZING SCHEDULES SHOWN ON ELECTRICAL STANDARD SCHEDULES DRAWING UNLESS OTHERWISE NOTED.
- COORDINATE THE MOUNTING HEIGHTS OF DEVICES WITH ARCHITECTURAL ELEVATIONS AND THE TRADES INSTALLING THE WORK.
- COORDINATE EXACT LOCATIONS OF ALL FLOOR SERVICE FITTINGS AND POKE-THROUGH ASSEMBLIES WITH FINAL FURNITURE LAYOUT DRAWINGS.
- REFER TO MECHANICAL SCHEDULE SHEETS FOR ELECTRICAL REQUIREMENTS FOR MECHANICAL EQUIPMENT. PROVIDE ALL CONNECTIONS, STARTERS, DISCONNECTS, ETC. AS REQUIRED BY SCHEDULES AND WHERE NOTED ELSEWHERE. VERIFY REQUIREMENTS OF ALL MECHANICAL EQUIPMENT WITH SHOP DRAWINGS SUBMITTALS. NOTIFY ENGINEER OF ANY CONFLICTS BETWEEN EQUIPMENT SUBMITTALS AND ELECTRICAL DRAWINGS. WHERE CIRCUIT SIZES ARE SHOWN ON THE ELECTRICAL DRAWINGS THAT DIFFER FROM WHAT IS INDICATED ON THE MECHANICAL SCHEDULES, PROVIDE THE CIRCUIT OF HIGHER AMPLACITY.
- REFER TO TEMPERATURE CONTROLS SHEETS FOR REQUIRED FIRE ALARM CONTROL MODULES, DUCT SMOKE DETECTORS, AND MOTOR CONTROLLERS. PROVIDE ALL ACCESSORIES INDICATED.
- REFER TO LIGHTING CONTROL SCHEDULE FOR ROOM CONTROL AND EMERGENCY LIGHTING CIRCUIT CONTROL REQUIREMENTS. DESIGNATION FOR ROOM IS INDICATED AS A LETTERED OVAL SYMBOL.
- ALL EXHAUST FANS ARE LOCATED ON THE ROOF U.N.O.
- ALL FIRE ALARM DEVICES SHALL BE COMPATIBLE WITH EXISTING NATIONAL TIME 902 FIRE ALARM SYSTEM. PROVIDE NECESSARY COMPONENTS, MODULES, ETC. AS REQUIRED FOR A FULLY FUNCTIONAL SYSTEM. RE-TEST AND CERTIFY EXISTING FIRE ALARM SYSTEM AT COMPLETION OF PROJECT.

CONSTRUCTION KEY NOTES:

- PROVIDE NEW 200KW NATURAL GAS GENERATOR AND GENERATOR ANNUNCIATOR. CONNECT GENERATOR TO EXISTING FEEDERS AND BRANCH CIRCUITS. PROVIDE NEW CONTROL WIRING AND GENERATOR ANNUNCIATOR WIRING AS REQUIRED.
- PROVIDE NEW NATIONAL TIME AND SIGNAL DLU225/DLU400 DIGITAL CLOCK SYSTEM. DLU225 SHALL BE USED IN OFFICES, CLASSROOMS, AND OTHER SMALL SPACES. DLU400 SHALL BE USED IN CORRIDORS, GYMNASIUMS, AND OTHER LARGE SPACES. EXISTING CLOCK SYSTEM WIRING TO BE REUSED.
- DISCONNECT AND RECONNECT EXISTING POWER TO NEW SCOREBOARD. EXTEND CONDUIT AND WIRING AS REQUIRED.
- POOL MECHANICAL ROOM IS CONSIDERED A CORROSIVE ENVIRONMENT. PROVIDE NEW CIRCUITING PER NEC 680.14. COORDINATE ALL POOL EQUIPMENT LOCATIONS WITH POOL CONTRACTOR.
- ALTERNATE 5: EXISTING CORD DROPS TO BE REPLACED WITH NEW CORD REELS. HUBBELL MODEL HB45123 WITH DUPLEX RECEPTACLE AND PIVOT BASE. ELECTRICAL CONTRACTOR TO VERIFY LOCATIONS, CONNECT TO EXISTING CIRCUITING. EXTEND CONDUIT AND WIRING AS REQUIRED. PROVIDE ALL MISCELLANEOUS MOUNTING STEEL.
- ALTERNATE 5: PROVIDE RECEPTACLE AND DATA DEVICE ON FACE OF EXISTING MEZZANINE FLOOR FRAMING FOR NEW T.V. LOCATION. COORDINATE EXACT LOCATION WITH ARCHITECT.
- ALTERNATE 5: PROVIDE POWER TO NEW LIFT. COORDINATE POWER REQUIREMENTS WITH LIFT MANUFACTURER. COORDINATE EXACT LOCATION WITH ARCHITECT.
- CIRCUIT MECHANICAL EQUIPMENT TO MAINTAINED BRANCH CIRCUIT. EXTEND CONDUIT AND WIRE AS REQUIRED.
- PROVIDE NEW GENERATOR DOCKING STATION, REFER TO ONE LINE DIAGRAM.
- ALTERNATE 5: NEW EXHAUST FANS, CIRCUIT NEW MECHANICAL EQUIPMENT AS INDICATED ON PLANS.
- DUCT SMOKE DETECTORS. COORDINATE REQUIRED QUANTITIES AND MOUNTING LOCATIONS WITH DUCT WORK TO MEET CODE. (PROVIDE 4 DUCT SMOKE DETECTORS PER AHU/RTU/AC FOR BID PURPOSES. QUANTITIES WILL BE ADJUSTED IN FIELD BASED ON DUCT WORK PENETRATIONS AND ROUTING LOCATIONS). COORDINATE INSTALLATION WITH THE MECHANICAL DUCT WORK SO THAT UPON DETECTION OF SMOKE, THE SUPPLY/RETURN FAN WILL SHUT DOWN. CONTRACTOR SHALL WIRE DUCT SMOKE DETECTOR TO FIRE ALARM SYSTEM. CONTROL OF AIR HANDLING EQUIPMENT IS VIA THE FIRE ALARM CONTROL PANEL. PROVIDE ALL REQUIRED FIRE ALARM CONTROL MODULES AND RELAYS TO INTERFACE WITH SUPPLY FAN AND ASSOCIATED RETURN FAN (OR EXHAUST FAN). PROVIDE ALL CONTROL MODULES, RELAYS, ETC. FOR A COMPLETE OPERATING SYSTEM.
- DISCONNECT POWER FROM EXISTING MECHANICAL UNIT TO ALLOW MECHANICAL TRADES TO REPLACE INTERNAL COMPONENTS OF UNIT. PROVIDE ADDITIONAL WIRING AS REQUIRED FOR NEW UNIT VENTILATOR EC MOTOR. RECONNECT POWER AT TIME AS COORDINATED WITH MECHANICAL TRADES, AFTER MECHANICAL TRADES HAS REPLACED INTERNAL COMPONENTS OF UNIT.
- SMOKE DAMPER DUCT SMOKE DETECTOR SHALL BE PROVIDED BY THE ELECTRICAL CONTRACTOR. COORDINATE INSTALLATION WITH THE MECHANICAL CONTRACTOR. ELECTRICAL CONTRACTOR SHALL WIRE DUCT SMOKE DETECTOR TO FIRE ALARM SYSTEM, AND CIRCUIT DAMPER ACTUATOR TO THE NEAREST 120 VOLT CIRCUIT. ELECTRICAL CONTRACTOR SHALL TIE INTO RECEPTACLE CIRCUIT WITH A 20A-1P SWITCH TO FEED THE DAMPER ACTUATORS. CONTROL WIRING/INTERLOCK TO AIR HANDLING EQUIPMENT IS BY THE TEMPERATURE CONTROL CONTRACTOR.
- ALTERNATE 5: FUSE NEW EXHAUST FANS AT 5 AMPS. FIELD VERIFY LOCATION OF COMBINATION STARTERS.
- ALTERNATE 6: CIRCUIT MECHANICAL EQUIPMENT TO MAINTAINED BRANCH CIRCUIT. EXTEND CONDUIT AND WIRE AS REQUIRED.
- 4" SQ. BOX MOUNTED NEXT TO "CHEMICAL CONTROLLER". POOL CONTRACTOR SHALL PROVIDE CIRCUITING FROM BOX TO CHEMICAL CONTROLLER TO POWER THE RECEPTABLES AS INDICATED. COORDINATE WORK WITH POOL CONTRACTOR.
- 2#12&1#12GRD, 3/4" C FROM CHEMICAL CONTROLLER BOX TO GFI RECEPTACLE.
- GFI RECEPTACLE FOR "ACCU-TAB FEEDER".
- GFI QUAD RECEPTACLE FOR "U.V. UNIT".
- GFI RECEPTACLE FOR "CO2 FEEDER".
- INTERCEPT EXISTING 15HP POOL PUMP CIRCUITING WITH 30A-3P, NEMA 4X (FIBERGLASS) DISCONNECT SWITCH AND FEED VFC/BYPASS THAT SERVES THE (2) NEW POOL PUMPS.
- THE EXISTING #8 BARE COPPER BONDING CONDUCTOR (PER NEC 680.26) SHALL BE EXTENDED FROM THE EXISTING POOL PUMP MOTOR AND EXTENDED TO THE NEW POOL PUMP MOTORS. THIS #8 BARE COPPER CONDUCTOR SHALL ALSO BE EXTENDED TO THE NEW POOL EQUIPMENT: VFC, ACCU-TAB FEEDER AND U.V. UNIT.
- STAND-BY GENERATOR RECEPTACLE FOR IDF/MDF RACK. COORDINATE EXACT LOCATION WITH OWNER/PMC. RECEPTACLE COLOR SHALL BE RED.
- STAND-BY GENERATOR RECEPTACLE FOR OFFICE POWER OUTAGE. COORDINATE EXACT LOCATION WITH OWNER. ROUTE CIRCUITING IN IVORY WRMOLD IN FINISHED AREAS. RECEPTACLE COLOR SHALL BE RED.



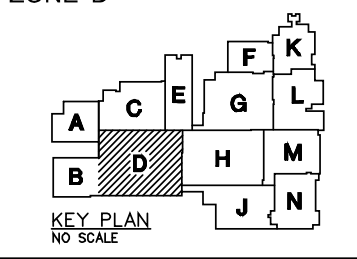
MAKELY ASSOCIATES, INC.
ARCHITECTS

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FARMINGTON PUBLIC SCHOOLS
SITE AND BUILDING IMPROVEMENTS TO
FARMINGTON HIGH SCHOOL
2020 BOND ISSUE - BID PACKAGE No. 3 - 2021 PROJECTS

FIRST FLOOR POWER PLAN - ZONE 'D'



PRELIMINARY ☐
DESIGN DEVELOPMENT ☐
CONSTRUCTION ☒
FINAL RECORD ☐

DRAWN BY: GBS
CHECKED BY: GJZ

REVISIONS:

CONSTRUCTION 10-01-21

DATE: AUGUST 19, 2021

SHEET NO.:

E3.1D

JOB NO. 201879



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

3. THESE DRAWINGS REPRESENT THE GENERAL EXIST AND ARRANGEMENT OF SYSTEMS. COORDINATE EXIST EQUIPMENT LOCATIONS, ELEVATIONS, FINAL CONNECTIONS, REQUIREMENTS AND SCHEDULES FOR EACH SYSTEM COMPLETE INCLUDING ALL NECESSARY COMPONENTS, FITTINGS AND OFFSETS.
4. INSTALL SYSTEMS SUCH THAT REQUIRED CLEARANCE AND SERVICE ACCESS SPACE IS PROVIDED AROUND ALL MECHANICAL AND ELECTRICAL EQUIPMENT, AND AROUND ANY COMPONENTS WHICH REQUIRE SERVICE ACCESS.
5. COORDINATE AND PROVIDE ACCESS DOORS WITHIN INACCESSIBLE CEILING, SHAF AND CHASE AREAS FOR ALL COMPONENTS WHICH REQUIRE SERVICE ACCESS. REFER TO ARCHITECTURAL DRAWINGS FOR CEILING TYPES.
6. PROVIDE SUPPLEMENTARY STEEL AS REQUIRED FOR THE PROPER SUPPORT OF ALL SYSTEMS.
7. TRANSFORMER SECONDARY CONDUCTORS SHALL BE SIZED IN ACCORDANCE WITH TRANSFORMER CIRCUIT SIZING SCHEDULE SHOWN ON ELECTRICAL STANDARD SCHEDULES DRAWING UNLESS OTHERWISE NOTED.
8. MOTOR CIRCUIT PROTECTION SHALL BE SIZED IN ACCORDANCE WITH MOTOR CIRCUIT SIZING SCHEDULES SHOWN ON ELECTRICAL STANDARD SCHEDULES DRAWING UNLESS OTHERWISE NOTED.
9. COORDINATE THE MOUNTING HEIGHTS OF DEVICES WITH ARCHITECTURAL ELEVATIONS AND THE TRADES INSTALLING THE WORK.
10. COORDINATE EXACT LOCATIONS OF ALL FLOOR SERVICE FITTINGS AND POKE-THROUGH ASSEMBLIES WITH FINAL FURNITURE LAYOUT DRAWINGS.
11. REFER TO MECHANICAL SCHEDULE SHEETS FOR ELECTRICAL REQUIREMENTS FOR MECHANICAL EQUIPMENT. PROVIDE ALL CONNECTIONS, STARTERS, DISCONNECTS, ETC AS REQUIRED BY SCHEDULES AND WHERE NOTED ELSEWHERE. VERIFY REQUIREMENTS OF MECHANICAL EQUIPMENT WITH SHOP DRAWINGS SUBMITTALS. NOTIFY ENGINEER OF ANY CONFLICTS BETWEEN EQUIPMENT SUBMITTALS AND ELECTRICAL DRAWINGS. WHERE CIRCUIT SIZES ARE SHOWN ON THE ELECTRICAL DRAWINGS THAT DIFFER FROM WHAT IS INDICATED ON THE MECHANICAL SCHEDULES, PROVIDE THE CIRCUIT OF HIGHER AMPACITY.
12. REFER TO TEMPERATURE CONTROLS SHEETS FOR REQUIRED FIRE ALARM CONTROL MODULES, DUST SMOKE DETECTORS, AND MOTOR CONTROLLERS. PROVIDE ALL ACCESSORIES INDICATED.
13. REFER TO LIGHTING CONTROL SCHEDULE FOR ROOM CONTROLS AND EMERGENCY LIGHTING CIRCUIT CONTROLS. REQUIREMENTS, DESIGNATION FOR ROOM IS INDICATED AS A LETTERED ALPHABETIC SYMBOL.
14. ALL EXHAUST FANS ARE LOCATED ON THE ROOF U.O.I.
15. ALL FIRE ALARM DEVICES SHALL BE COMPATIBLE WITH EXISTING NATIONAL TYPE 902 FIRE ALARM SYSTEM. PROVIDE NECESSARY COMPONENTS, MODULES, ETC AS REQUIRED TO COMPLETE A FULL FUNCTIONAL SYSTEM. RE-TEST AND CERTIFY EXISTING FIRE ALARM SYSTEM AT COMPLETION OF PROJECT.

1. PROVIDE NEW 2000W NATURAL GAS GENERATOR AND GENERATOR ANNUNCIATOR, CONNECT GENERATOR TO EXISTING FEEDERS AND BRANCH CIRCUITS. PROVIDE NEW CONTROL WIRING AND GENERATOR ANNUNCIATOR WIRING AS REQUIRED.
2. PROVIDE NEW NATIONAL TIME AND SIGNAL, D01225/DJ4040 DIGITAL CLOCK SYSTEM. D01225 SHALL BE USED IN OFFICES, CLASSROOMS, AND OTHER SMALL SPACES. D01225 SHALL BE USED IN CORRIDORS, GYMNASIUMS, AND OTHER LARGE SPACES. EXISTING CLOCK SYSTEM WIRING TO BE REUSED.
3. DISCONNECT AND RECONNECT EXISTING POWER TO NEW SCOREBOARD, EXTEND CONDUIT AND WIRING AS REQUIRED.
4. POOL MECHANICAL ROOM IS CONSIDERED A CORROSIVE ENVIRONMENT. PROVIDE NEW CIRCUITING PER NEC 680.14. COORDINATE ALL POOL EQUIPMENT LOCATIONS WITH POOL CONTRACTOR.
5. ALTERNATE 5: EXISTING CORD DROPS TO BE REPLACED WITH NEW CORD REELS, HUBBELL MODEL HR64525 WITH DUPLEX RECEPTACLE AND PIVOT BASE. ELECTRICAL CORDS TO BE VERTICALLY HUNG AND ROUTING LOCATIONS, COORDINATE INSTALLATION AND WIRING AS REQUIRED. PROVIDE ALL MISCELLANEOUS MOUNTING SLEEVES.
6. ALTERNATE 5: PROVIDE RECEPTACLE AND DATA DEVICE ON FACE OF EXISTING MEZZANINE FLOOR FRAMING FOR NEW T.V. LOCATION. COORDINATE EXACT LOCATION WITH ARCHITECT.
7. ALTERNATE 5: PROVIDE POWER TO NEW LIFT. COORDINATE POWER REQUIREMENTS WITH LIFT MANUFACTURER. COORDINATE EXACT LOCATION WITH ARCHITECT.
8. CIRCUIT MECHANICAL EQUIPMENT TO MAINTAINED BRANCH CIRCUIT. EXTEND CONDUIT AND WIRE AS REQUIRED.
9. PROVIDE NEW GENERATOR DOCKING STATION, REFER TO ONE LINE DIAGRAM.
10. ALTERNATE 5: NEW EXHAUST FANS, CHYANUS/MS, COORDINATE MECHANICAL EQUIPMENT AS INDICATED ON PLANS.
11. DUCT SMOKE DETECTORS: COORDINATE REQUIRED QUANTITIES AND MOUNTING LOCATIONS WITH DUCT WORK TO MEET CODE. (PROVIDE 4 DUCT SMOKE DETECTORS PER AHJ/UL/AC FOR BLD PURPOSES. QUANTITIES WILL BE ADJUSTED IN FIELD BASED ON WORK REQUIREMENTS AND DETECTION LOCATIONS. COORDINATE INSTALLATION WITH THE MECHANICAL DUCT WORK SO THAT UPON DETECTION OF SMOKE, THE SUPPLY/RETURN FAN WILL SHUT DOWN. CONTRACTOR SHALL PROVIDE DUCT SMOKE DETECTOR TO FEED ALARM SYSTEM. CONTROL OF AIR HANDLING EQUIPMENT IS VIA THE FIRE ALARM CONTROL PANEL. PROVIDE ALL REQUIRED FIRE ALARM CONTROL MODULES AND RELAYS TO INTERFACE WITH SUPPLY FAN AND EXHAUST RETURN FAN (OR EXHAUST FAN). PROVIDE ALL CONTROL MODULES, RELAYS, ETC. FOR A COMPLETE OPERATING SYSTEM.
12. DISCONNECT POWER FROM EXISTING MECHANICAL UNIT TO ALLOW MECHANICAL TRADES TO REPLACE INTERNAL COMPONENTS OF UNIT. PROVIDE ADDITIONAL WIRING AS REQUIRED FOR NEW UNIT VENTILATOR EC MOTOR. RECONNECT POWER AT TIME AS COORDINATED WITH MECHANICAL TRADES. AFTER MECHANICAL TRADES HAS REPLACED INTERNAL COMPONENTS OF UNIT.
13. SMOKE DAMPER DUCT SMOKE DETECTOR SHALL BE PROVIDED BY THE ELECTRICAL CONTRACTOR. COORDINATE INSTALLATION WITH THE MECHANICAL CONTRACTOR. ELECTRICAL CONTRACTOR SHALL WIRE DUCT SMOKE DETECTOR TO FEED ALARM BAY AND CIRCUIT TO AIR HANDLING ACTUATOR TO THE NEAREST 120 VOLT CIRCUIT (ELECTRICAL CONTRACTOR SHALL Tie INTO RECEPTACLE CIRCUIT WITH A 20A-1P SWITCH TO FEED THE DAMPER ACTUATORS). CONTROL WIRING/INTERLOCK TO AIR HANDLING EQUIPMENT IS BY THE TEMPERATURE CONTROL CONTRACTOR.
14. ALTERNATE 5: FUSE NEW EXHAUST FANS AT 5 AMPS, FIELD VERIFY LOCATION OF COINTEGRATED STARTER.
15. ALTERNATE 6: CIRCUIT MECHANICAL EQUIPMENT TO MAINTAINED BRANCH CIRCUIT. EXTEND CONDUIT AND WIRE AS REQUIRED.
16. "4" SQ. BOX MOUNTED NEXT TO "CHEMICAL CONTROLLER". POOL CONTRACTOR SHALL PROVIDE CIRCUITING FROM BOX TO CHEMICAL CONTROLLER TO POWER THE RECEPTACLES AS INDICATED. COORDINATE WORK WITH POOL CONTRACTOR.
17. 2/21#21@20RD, 3/4"O FROM CHEMICAL CONTROLLER .JBX TO GFI RECEPTACLE.
18. GFI RECEPTACLE FOR "ACQUA-TAB FEEDER".
19. GFI QUAD RECEPTACLE FOR "U.V. UNIT".
20. GFI RECEPTACLE FOR "CO2 FEEDER".
21. INTERCEPT EXISTING 15HP POOL CIRCUITING WITH 3/4"O, 3PM-4, NEPA. 4X FIBERGLASS DISCONNECT SWITCH AND FEED VFC/BYPASS THAT SERVES THE (2) NEW POOL PUMPS.
22. THE EXISTING #9 BARE COPPER BONDING CONDUCTOR (PER NEC 680.26) SHALL BE EXTENDED FROM THE EXISTING POOL PUMP MOTOR AND EXTENDED TO THE NEW POOL PUMP MOTORS. THIS #9 BARE COPPER CONDUCTOR SHALL ALSO BE EXTENDED TO THE NEW POOL EQUIPMENT. VFC, ACQUA-TAB FEEDER AND U.V. UNIT.
23. STAND-BY GENERATOR RECEPTACLE FOR ID#ADR RACK. COORDINATE EXACT LOCATION WITH OWNER/PMC. RECEPTACLE COLOR SHALL BE RED.
24. STAND-BY GENERATOR RECEPTACLE FOR OFFICE POWER OUTAGE. COORDINATE EXACT LOCATION WITH OWNER. RECEPTACLE IN IVORY MEDIUM IN FINISHED AREAS. RECEPTACLE COLOR SHALL BE RED.

**FARMINGTON PUBLIC SCHOOLS
SITE AND BUILDING IMPROVEMENTS TO
FARMINGTON HIGH SCHOOL
2020 BOND ISSUE - BID PACKAGE No. 3 - 2021 PROJECTS**

KEY PLAN
NO SCALE

PRELIMINARY	☐
DESIGN DEVELOPMENT	☐
CONSTRUCTION	☒
FINAL RECORD	☐

DRAWN BY: GBS

CHECKED BY: GJZ

ADD No 02 09-16-2

DATE: AUGUST 18 2021

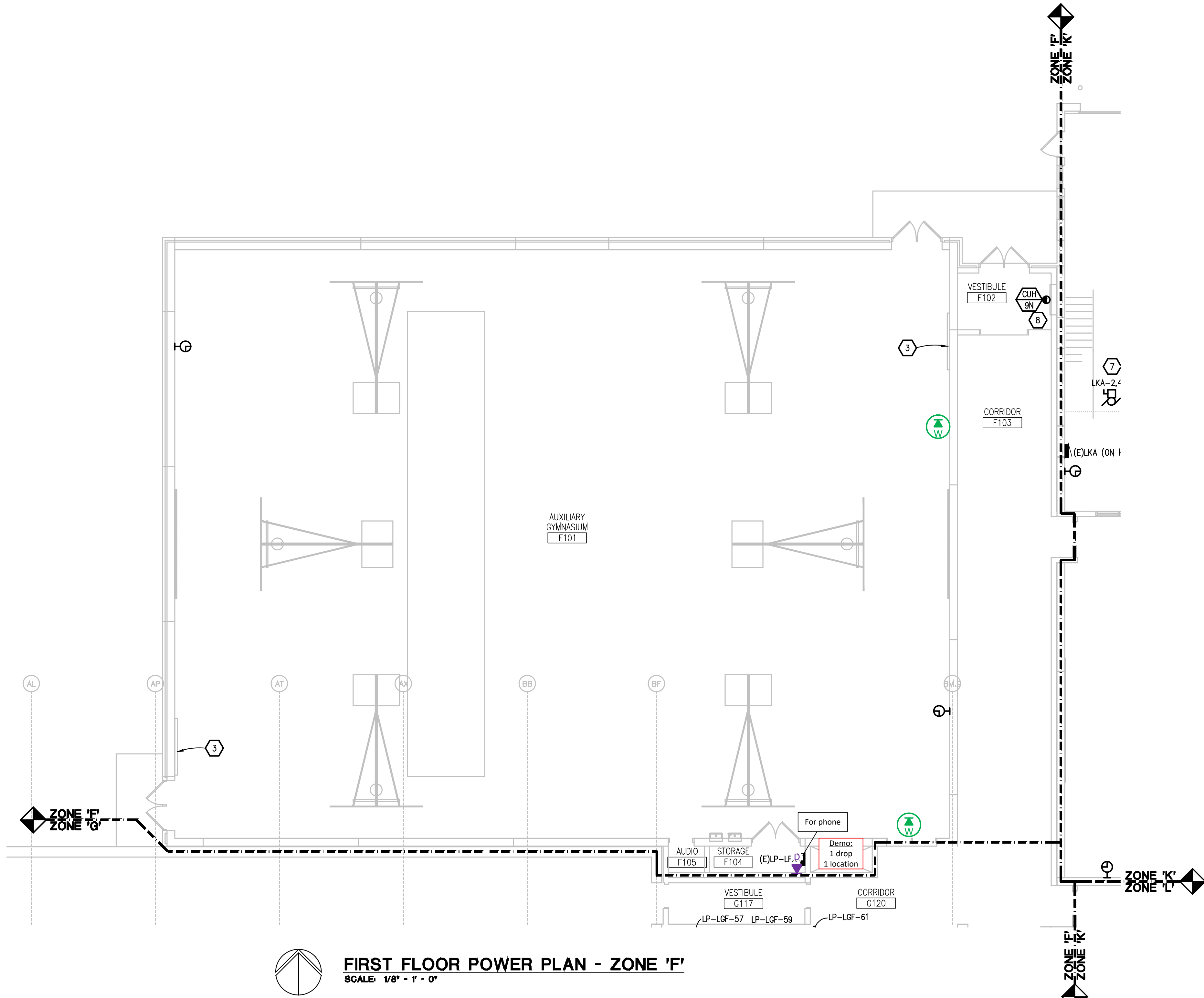
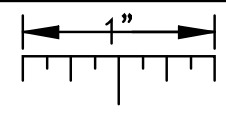
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JOB NO. 201879

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THE FOLLOWING DIMENSION EQUALS
ONE INCH WHEN PRINTED TO SCALE.



FIRST FLOOR POWER PLAN - ZONE 'F'

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

ELECTRICAL GENERAL NOTES:

- THESE DRAWINGS REPRESENT THE GENERAL EXTENT AND ARRANGEMENT OF SYSTEMS. COORDINATE EXACT EQUIPMENT LOCATIONS, ELEVATIONS, FINAL CONNECTION REQUIREMENTS AND PROVIDE EACH SYSTEM COMPLETE INCLUDING ALL NECESSARY COMPONENTS, FITTINGS AND OFFSETS.
- INSTALL SYSTEMS SUCH THAT REQUIRED CLEARANCE AND SERVICE ACCESS SPACE IS PROVIDED AROUND ALL MECHANICAL AND ELECTRICAL EQUIPMENT, AND AROUND ANY COMPONENTS WHICH REQUIRE SERVICE ACCESS.
- COORDINATE AND PROVIDE ACCESS DOORS WITHIN INACCESSIBLE CEILING, SHAFT, AND CHASE AREAS FOR ALL COMPONENTS WHICH REQUIRE SERVICE ACCESS. REFER TO ARCHITECTURAL DRAWINGS FOR CEILING TYPES.
- PROVIDE SUPPLEMENTARY STEEL AS REQUIRED FOR THE PROPER SUPPORT OF ALL SYSTEMS.
- TRANSFORMER SECONDARY CONDUCTORS SHALL BE SIZED IN ACCORDANCE WITH TRANSFORMER CIRCUIT SIZING SCHEDULE SHOWN ON "ELECTRICAL STANDARD SCHEDULES DRAWING" UNLESS OTHERWISE NOTED.
- MOTOR CIRCUIT PROTECTION SHALL BE SIZED IN ACCORDANCE WITH MOTOR CIRCUIT SIZING SCHEDULES SHOWN ON "ELECTRICAL STANDARD SCHEDULES DRAWING" UNLESS OTHERWISE NOTED.
- COORDINATE THE MOUNTING HEIGHTS OF DEVICES WITH ARCHITECTURAL ELEVATIONS AND THE TRADES INSTALLING THE WORK.
- COORDINATE EXACT LOCATIONS OF ALL FLOOR SERVICE FITTINGS AND POKE-THROUGH ASSEMBLIES WITH FINAL FURNITURE LAYOUT DRAWINGS.
- REFER TO MECHANICAL SCHEDULE SHEETS FOR ELECTRICAL REQUIREMENTS FOR MECHANICAL EQUIPMENT. PROVIDE ALL CONNECTIONS, STARTERS, DISCONNECTS, ETC. AS REQUIRED BY SCHEDULES AND WHERE NOTED ELSEWHERE. VERIFY REQUIREMENTS OF ALL MECHANICAL EQUIPMENT WITH SHOP DRAWINGS SUBMITTALS. NOTIFY ENGINEER OF ANY CONFLICTS BETWEEN EQUIPMENT SUBMITTALS AND ELECTRICAL DRAWINGS. WHERE CIRCUIT SIZES ARE SHOWN ON THE ELECTRICAL DRAWINGS THAT DIFFER FROM WHAT IS INDICATED ON THE MECHANICAL SCHEDULES, PROVIDE THE CIRCUIT OF HIGHER AMPACITY.
- REFER TO TEMPERATURE CONTROLS SHEETS FOR REQUIRED FIRE ALARM CONTROL MODULES, DUCT SMOKE DETECTORS, AND MOTOR CONTROLLERS. PROVIDE ALL ACCESSORIES INDICATED.
- REFER TO LIGHTING CONTROL SCHEDULE FOR ROOM CONTROL AND EMERGENCY LIGHTING CIRCUIT CONTROL REQUIREMENTS. DESIGNATION FOR ROOM IS INDICATED AS A LETTERED OVAL SYMBOL.
- ALL EXHAUST FANS ARE LOCATED ON THE ROOF U.N.O.
- ALL FIRE ALARM DEVICES SHALL BE COMPATIBLE WITH EXISTING NATIONAL TIME 902 FIRE ALARM SYSTEM. PROVIDE NECESSARY COMPONENTS, MODULES, ETC. AS REQUIRED FOR A FULLY FUNCTIONAL SYSTEM. RE-TEST AND CERTIFY EXISTING FIRE ALARM SYSTEM AT COMPLETION OF PROJECT.

CONSTRUCTION KEY NOTES:

- PROVIDE NEW 200KW NATURAL GAS GENERATOR AND GENERATOR ANNUNCIATOR. CONNECT GENERATOR TO EXISTING FEEDERS AND BRANCH CIRCUITS. PROVIDE NEW CONTROL WIRING AND GENERATOR ANNUNCIATOR WIRING AS REQUIRED.
- PROVIDE NEW NATIONAL TIME AND SIGNAL DLU225/DLU400 DIGITAL CLOCK SYSTEM. DLU225 SHALL BE USED IN OFFICES, CLASSROOMS, AND OTHER SMALL SPACES. DLU400 SHALL BE USED IN CORRIDORS, GYMNASIUMS, AND OTHER LARGE SPACES. EXISTING CLOCK SYSTEM WIRING TO BE REUSED.
- DISCONNECT AND RECONNECT EXISTING POWER TO NEW SCOREBOARD. EXTEND CONDUIT AND WIRING AS REQUIRED.
- POOL MECHANICAL ROOM IS CONSIDERED A CORROSIVE ENVIRONMENT. PROVIDE NEW CIRCUITING PER NEC 680.14. COORDINATE ALL POOL EQUIPMENT LOCATIONS WITH POOL CONTRACTOR.
- ALTERNATE 5: EXISTING CORD DROPS TO BE REPLACED WITH NEW CORD REELS. HUBBELL MODEL HBL45123 WITH DUPLEX RECEPTACLE AND PIVOT BASE. ELECTRICAL CONTRACTOR TO VERIFY LOCATIONS. CONNECT TO EXISTING CIRCUITING. EXTEND CONDUIT AND WIRING AS REQUIRED. PROVIDE ALL MISCELLANEOUS MOUNTING STEEL.
- ALTERNATE 5: PROVIDE RECEPTACLE AND DATA DEVICE ON FACE OF EXISTING MEZZANINE FLOOR FRAMING FOR NEW T.V. LOCATION. COORDINATE EXACT LOCATION WITH ARCHITECT.
- ALTERNATE 5: PROVIDE POWER TO NEW LIFT. COORDINATE POWER REQUIREMENTS WITH LIFT MANUFACTURER. COORDINATE EXACT LOCATION WITH ARCHITECT.
- CIRCUIT MECHANICAL EQUIPMENT TO MAINTAINED BRANCH CIRCUIT. EXTEND CONDUIT AND WIRE AS REQUIRED.
- PROVIDE NEW GENERATOR DOCKING STATION, REFER TO ONE LINE DIAGRAM.
- ALTERNATE 5: NEW EXHAUST FANS, CIRCUIT NEW MECHANICAL EQUIPMENT AS INDICATED ON PLANS.
- DUCT SMOKE DETECTORS. COORDINATE REQUIRED QUANTITIES AND MOUNTING LOCATIONS WITH DUCT WORK TO MEET CODE. PROVIDE 4 DUCT SMOKE DETECTORS PER AHU/RTU/AC FOR BID PURPOSES. QUANTITIES WILL BE ADJUSTED IN FIELD BASED ON DUCT WORK PENETRATIONS AND ROUTING LOCATIONS. COORDINATE INSTALLATION WITH THE MECHANICAL DUCT WORK SO THAT UPON DETECTION OF SMOKE, THE SUPPLY/RETURN FAN WILL SHUT DOWN. CONTRACTOR SHALL WIRE DUCT SMOKE DETECTOR TO FIRE ALARM SYSTEM. CONTROL OF AIR HANDLING EQUIPMENT IS VIA THE FIRE ALARM CONTROL PANEL. PROVIDE ALL REQUIRED FIRE ALARM CONTROL MODULES AND RELAYS TO INTERLOCK WITH SUPPLY FAN AND ASSOCIATED RETURN FAN (OR EXHAUST FAN). PROVIDE ALL CONTROL MODULES, RELAYS, ETC. FOR A COMPLETE OPERATING SYSTEM.
- DISCONNECT POWER FROM EXISTING MECHANICAL UNIT TO ALLOW MECHANICAL TRADES TO REPLACE INTERNAL COMPONENTS OF UNIT. PROVIDE ADDITIONAL WIRING AS REQUIRED FOR NEW UNIT VENTILATOR CO MOTOR. RECONNECT POWER AT TIME AS COORDINATED WITH MECHANICAL TRADES, AFTER MECHANICAL TRADES HAS REPLACED INTERNAL COMPONENTS OF UNIT.
- SMOKE DAMPER DUCT SMOKE DETECTOR SHALL BE PROVIDED BY THE ELECTRICAL CONTRACTOR. COORDINATE INSTALLATION WITH THE MECHANICAL CONTRACTOR. ELECTRICAL CONTRACTOR SHALL WIRE DUCT SMOKE DETECTOR TO FIRE ALARM SYSTEM AND CIRCUIT DAMPER ACTUATOR TO THE NEAREST 120 VOLT CIRCUIT (ELECTRICAL CONTRACTOR SHALL TIE INTO RECEPTACLE CIRCUIT WITH A 20A-1P SWITCH TO FEED THE DAMPER ACTUATORS). CONTROL WIRING/INTERLOCK TO AIR HANDLING EQUIPMENT IS BY THE TEMPERATURE CONTROL CONTRACTOR.
- ALTERNATE 6: FUSE NEW EXHAUST FANS AT 5 AMPS, FIELD VERIFY LOCATION OF COMBINATION STARTERS.
- ALTERNATE 6: CIRCUIT MECHANICAL EQUIPMENT TO MAINTAINED BRANCH CIRCUIT. EXTEND CONDUIT AND WIRE AS REQUIRED.
- 4" SQ JBOX MOUNTED NEXT TO "CHEMICAL CONTROLLER". POOL CONTRACTOR SHALL PROVIDE CIRCUITING FROM JBOX TO CHEMICAL CONTROLLER TO POWER THE RECEPTACLES AS INDICATED. COORDINATE WORK WITH POOL CONTRACTOR.
- 2#12#1#120RD, 3/4" FROM CHEMICAL CONTROLLER JBOX TO GFI RECEPTACLE.
- GFI RECEPTACLE FOR "ACCU-TAB FEEDER".
- GFI QUAD RECEPTACLE FOR "U.V. UNIT".
- GFI RECEPTACLE FOR "CO2 FEEDER".
- INTERCEPT EXISTING 15HP POOL PUMP CIRCUITING WITH 30A-3P, NEMA 4X (FIBERGLASS) DISCONNECT SWITCH AND FEED VFC/BYPASS THAT SERVES THE (2) NEW POOL PUMPS.
- THE EXISTING #8 BARE COPPER BONDING CONDUCTOR (PER NEC 680.26) SHALL BE EXTENDED FROM THE EXISTING POOL PUMP MOTOR AND EXTENDED TO THE NEW POOL PUMP MOTORS. THIS #8 BARE COPPER CONDUCTOR SHALL ALSO BE EXTENDED TO THE NEW POOL EQUIPMENT: VFC, ACCU-TAB FEEDER AND U.V. UNIT.
- STAND-BY GENERATOR RECEPTACLE FOR IDF/MDF RACK. COORDINATE EXACT LOCATION WITH OWNER/PMC. RECEPTACLE COLOR SHALL BE RED.
- STAND-BY GENERATOR RECEPTACLE FOR OFFICE POWER OUTAGE. COORDINATE EXACT LOCATION WITH OWNER. ROUTE CIRCUITING IN IVORY WIREMOLD IN FINISHED AREAS. RECEPTACLE COLOR SHALL BE RED.

WA

MAKELY ASSOCIATES, INC.
ARCHITECTS

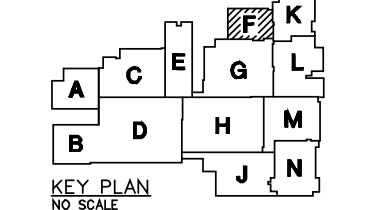
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FARMINGTON PUBLIC SCHOOLS
SITE AND BUILDING IMPROVEMENTS TO
FARMINGTON HIGH SCHOOL
2020 BOND ISSUE - BID PACKAGE No. 3 - 2021 PROJECTS

FIRST FLOOR POWER PLAN -
ZONE 'F'



PRELIMINARY ☐
DESIGN DEVELOPMENT ☐
CONSTRUCTION ☒
FINAL RECORD ☐

DRAWN BY: GBS
CHECKED BY: GJZ

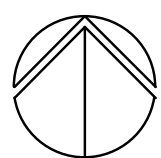
REVISIONS:

CONSTRUCTION 10-01-21

DATE: AUGUST 19, 2021
SHEET NO.:

E3.1F

JOB NO. 201879



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

1. THESE DRAWINGS REPRESENT THE GENERAL EXIST AND ARRANGEMENT OF SYSTEMS. COORDINATE EXIST EQUIPMENT LOCATIONS, ELEVATIONS, FINAL CONNECTION REQUIREMENTS AND PROVIDE EACH SYSTEM COMPLETE INCLUDING ALL NECESSARY COMPONENTS, FITTINGS, HARDWARE AND OFFSETS.
2. INSTALL SYSTEMS THAT REQUIRED CLEARANCE AND SERVICE ACCESS SPACE IS PROVIDED AROUND ALL MECHANICAL AND ELECTRICAL EQUIPMENT, AND AROUND ANY COMPONENTS WHICH REQUIRE SERVICE ACCESS.
3. COORDINATE AND PROVIDE ACCESS DOORS WITH INACCESSIBLE CEILING, SHAFT AND CHASE AREAS FOR ALL COMPONENTS WHICH REQUIRE SERVICE ACCESS. REFER TO ARCHITECTURAL DRAWINGS FOR CEILING TYPES.
4. PROVIDE SUPPLEMENTARY STEEL AS REQUIRED FOR THE PROPER SUPPORT OF ALL SYSTEMS.
5. TRANSFORMER SECONDARY CONDUCTORS SHALL BE SIZED IN ACCORDANCE WITH TRANSFORMER CIRCUIT SIZING SCHEDULE SHOWN ON ELECTRICAL STANDARD SCHEDULES DRAWING UNLESS OTHERWISE NOTED.
6. MOTOR CIRCUIT PROTECTION SHALL BE SIZED IN ACCORDANCE WITH MOTOR CIRCUIT SIZING SCHEDULES SHOWN ON ELECTRICAL STANDARD SCHEDULES DRAWING UNLESS OTHERWISE NOTED.
7. COORDINATE THE MOUNTING HEIGHTS OF DEVICES WITH ARCHITECTURAL ELEVATIONS AND THE TRADES INSTALLING THE WORK.
8. COORDINATE EXIST LOCATIONS OF ALL FLOOR SPACE FITTINGS AND POKE-THROUGH ASSEMBLIES WITH FINAL FURNITURE PLANT DRAWINGS.
9. REFER TO MECHANICAL SCHEDULE SHEETS FOR ELECTRICAL REQUIREMENTS FOR MECHANICAL EQUIPMENT. PROVIDE ALL CONNECTIONS, STARTERS, DISCONNECTS, ETC AS REQUIRED BY SCHEDULES AND WHERE NOTED ELSEWHERE. VERIFY REQUIREMENTS OF MECHANICAL EQUIPMENT WITH SHOP DRAWINGS SUBMITTALS. NOTIFY ENGINEER OF ANY CONFLICTS BETWEEN EQUIPMENT SUBMITTALS AND ELECTRICAL DRAWINGS. WHERE CIRCUIT SIZES ARE SHOWN ON THE ELECTRICAL DRAWINGS THAT DIFFER FROM WHAT IS PROVIDED ON THE MECHANICAL SCHEDULES, PROVIDE THE CIRCUIT OF HIGHER AMPACITY.
10. REFER TO TEMPERATURE CONTROLS SHEETS FOR REQUIRED FIRE ALARM CONTROL MODULES, BUD SMOKE DETECTORS, AND MOTOR CONTROLLERS. PROVIDE ALL ACCESSORIES INDICATED.
11. REFER TO LIGHTING CONTROL SCHEDULE FOR ROOM CONTROL AND EMERGENCY LIGHTING CIRCUIT CONTROL REQUIREMENTS. DESIGNATION FOR ROOM IS INDICATED AS A LETTERED ALPH SYMBOL.
12. ALL EXHAUST FANS ARE LOCATED ON THE ROOF U.O.
13. ALL EXIST FIRE ALARMS SHALL BE COMPATIBLE WITH EXISTING NATIONAL TYPE 902 FIRE ALARM SYSTEM. PROVIDE NECESSARY COMPONENTS, MODULES, ETC. AS REQUIRED FOR A FULLY FUNCTIONING SYSTEM. RE-TEST AND CERTIFY EXISTING FIRE ALARM SYSTEM AT COMPLETION OF PROJECT.

1. PROVIDE NEW 200KW NATURAL GAS GENERATOR AND GENERATOR ANNUNCIATOR, CONNECT GENERATOR TO EXISTING FEEDERS AND BRANCH CIRCUITS. PROVIDE NEW CONTROL WIRING AND GENERATOR ANNUNCIATOR WIRING AS REQUIRED.
2. PROVIDE NEW NATIONAL TIME AND SIGNAL DL0225/DL0400 DIGITAL CLOCK SYSTEM. DL0225 SHALL BE USED IN OFFICES, CLASSROOMS, AND OTHER SMALL SPACES. DL0400 SHALL BE USED IN CORRIDORS, GYMNASIUMS, AND OTHER LARGE SPACES. EXTENDING CLOCK SYSTEM WIRING TO BE REUSED.
3. DISCONNECT AND RECONNECT EXISTING POWER TO NEW SCOREBOARD. EXTEND CONDUIT AND WIRING AS REQUIRED.
4. POOL MECHANICAL ROOM IS CONSIDERED A CORROSIVE ENVIRONMENT. PROVIDE NEW GROUTING PER NEC 680.14. COORDINATE ALL POOL EQUIPMENT LOCATIONS WITH POOL CONTRACTOR.
5. ALTERNATE 5: EXISTING GROUND DROPS TO BE REPLACED WITH NEW GROUND REELS. HUBBELL MODEL HB45123 WITH DUPLICATION RECEPTACLE AND PIVOT BASE. ELECTRICAL CONTRACTOR MUST VERIFY ALL EXISTING AND ROUTING LOCATIONS. COORDINATE WITH ARCHITECT. PROVIDE ALL MISCELLANEOUS MOUNTING SLEEVES.
6. ALTERNATE 5: PROVIDE RECEPTACLE AND DATA DEVICE ON FACE OF EXISTING MEZZANINE FLOOR FRAMING FOR NEW T.V. LOCATION. COORDINATE EXACT LOCATION WITH ARCHITECT.
7. ALTERNATE 5: PROVIDE POWER TO NEW LIFT. COORDINATE POWER REQUIREMENTS WITH LIFT MANUFACTURER. COORDINATE EXACT LOCATION WITH ARCHITECT.
8. CIRCUIT MECHANICAL EQUIPMENT TO MAINTAINED BRANCH CIRCUIT. EXTEND CONDUIT AND WIRE AS REQUIRED.
9. PROVIDE NEW GENERATOR DOCKING STATION, REFER TO ONE LINE DIAGRAM.
10. ALTERNATE 5: NEW EXHAUST FANS, CIRCUIT NEW MECHANICAL EQUIPMENT AS INDICATED ON PLANS.
11. DUCT SMOKE DETECTORS. COORDINATE REQUIRED QUANTITIES AND MOUNTING LOCATIONS WITH DUCT WORK TO MEET CODE. (PROVIDE 4 DUCT SMOKE DETECTORS PER AHU/RTU/AC FOR EACH PURCHASED. QUANTITIES WILL BE ADJUSTED IN FIELD BASED ON DUCT WORK REQUIREMENTS AND ROUTING LOCATIONS). COORDINATE INSTALLATION WITH THE MECHANICAL DUCT WORK SO THAT UPON DETECTION OF SMOKE, THE SUPPLY/RETURN FAN WILL SHUT DOWN. CONTRACTOR SHALL WIRE DUCT SMOKE DETECTOR TO FIRE ALARM SYSTEM. CONTROL OF AIR HANDLING EQUIPMENT IS VIA THE FIRE ALARM CONTROL PANEL. PROVIDED ALL REQUIRED FIRE ALARM CONTROL MODULES AND RELAYS TO INTERFACE WITH SUPPLY FAN AND EXHAUST RETURN FAN (OR EXHAUST FAN). PROVIDE ALL CONTROL MODULES, RELAYS, ETC. FOR A COMPLETE OPERATING SYSTEM.
12. DISCONNECT POWER FROM EXISTING MECHANICAL UNIT TO ALLOW MECHANICAL TRADES TO REPLACE INTERNAL COMPONENTS OF UNIT. PROVIDE ADDITIONAL WIRING AS REQUIRED FOR NEW UNIT VENTILATOR EC MOTOR. RECONNECT POWER AT TIME AS COORDINATED WITH MECHANICAL TRADES. AFTER MECHANICAL TRADES HAS REPLACED INTERNAL COMPONENTS OF UNIT.
13. SMOKE DAMPER DUCT SMOKE DETECTOR SHALL BE PROVIDED BY THE ELECTRICAL CONTRACTOR. COORDINATE INSTALLATION WITH THE MECHANICAL CONTRACTOR. ELECTRICAL CONTRACTOR SHALL WIRE DUCT SMOKE DETECTOR TO FIRE ALARM SYSTEM. CIRCUIT PER EXHAUST ACTUATOR TO THE NEAREST 120 VOLT CIRCUIT (ELECTRICAL CONTRACTOR SHALL TIE INTO RECEPTACLE CIRCUIT WITH A 20A-1P SWITCH TO FEED THE DAMPER ACTUATORS). CONTROL WIRING/INTERLOCK TO AIR HANDLING EQUIPMENT IS BY THE TEMPERATURE CONTROL CONTRACTOR.
14. ALTERNATE 5: FUSE NEW EXHAUST FANS AT 5 AMPS. FIELD VERIFY LOCATION OF COORDINATE.
15. ALTERNATE 6: CIRCUIT MECHANICAL EQUIPMENT TO MAINTAINED BRANCH CIRCUIT. EXTEND CONDUIT AND WIRE AS REQUIRED.
16. 50 ABOX MOUNTED NEXT TO "CHEMICAL CONTROLLER". POOL CONTRACTOR SHALL PROVIDE CIRCUITING FROM CHEMICAL CONTROLLER TO POWER THE RECEPTACLES AS INDICATED. COORDINATE WORK WITH POOL CONTRACTOR.
17. 2/2121#1/20RD, 3/4" FROM MECHANICAL CONTROLLER ABOX TO GFI RECEPTACLE.
18. GFI RECEPTACLE FOR "ACQU-TAB FEEDER".
19. GFI QUAD RECEPTACLE FOR "U.V. UNIT".
20. GFI RECEPTACLE FOR "O2 FEEDER".
21. INTERCEPT EXISTING 15HP POOL PUMP CIRCUITING TO 30A-3P, 4W. INTERCEPT DISCONNECT SWITCH AND FEED VFC/BYPASS THAT SERVES THE (2) NEW POOL PUMPS.
22. THE EXISTING #8 BR BRONZE BONDING CONDUCTOR (PER NEC 680.26) SHALL BE EXTENDED FROM THE EXISTING POOL PUMP MOTOR AND EXTENDED TO THE NEW POOL PUMP MOTORS. THIS #8 BR BRONZE BONDING CONDUCTOR SHALL ALSO BE EXTENDED TO THE NEW POOL EQUIPMENT: VFC, ACQU-TAB FEEDER AND U.V. UNIT.
23. STAND-BY GENERATOR RECEPTACLE FOR ID#ADF RACK. COORDINATE EXACT LOCATION WITH OWNER/PNC. RECEPTACLE COLOR SHALL BE RED.
24. STAND-BY GENERATOR RECEPTACLE FOR OFFICE POWER OUTAGE. COORDINATE EXACT LOCATION WITH OWNER/PNC. RECEPTACLE LOCATION IN HORY WREEMOLD IN FINISHED AREAS. RECEPTACLE COLOR SHALL BE RED.



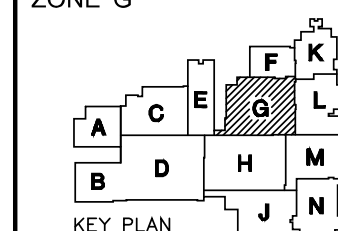
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FARMINGTON PUBLIC SCHOOLS
**SITE AND BUILDING IMPROVEMENTS TO
 FARMINGTON HIGH SCHOOL**
 2020 BOND ISSUE - BID PACKAGE No. 3 - 2021 PROJECTS

FIRST FLOOR POWER PLAN
ZONE 'G'



PRELIMINARY	☐
DESIGN DEVELOPMENT	☐
CONSTRUCTION	☒
FINAL RECORD	☐

DRAWN BY: GBS
CHECKED BY: GJZ

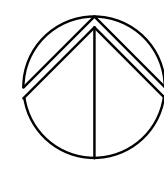
REVISIONS:

CONSTRUCTION	10-01-2
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SHEET NO.:

E3.1G

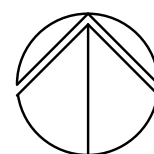
JOB NO. 201870



FIRST FLOOR POWER PLAN - ZONE 'H'
SCALE: 1/8" = 1' - 0"

5. THESE DRAWINGS REPRESENT THE GENERAL EXIST AND ARRANGEMENT OF SYSTEMS. COORDINATE EXIST EQUIPMENT LOCATIONS, ELEVATIONS, FINAL CONNECTION REQUIREMENTS AND PROVIDE EACH SYSTEM COMPLETE INCLUDING ALL NECESSARY COMPONENTS, FITTINGS AND OFFSETS.
6. INSTALL SYSTEMS SUCH THAT REQUIRED CLEARANCE AND SERVICE ACCESS SPACE IS PROVIDED AROUND ALL MECHANICAL AND ELECTRICAL EQUIPMENT, AND AROUND ANY COMPONENTS WHICH REQUIRE SERVICE ACCESS.
7. COORDINATE AND PROVIDE ACCESS DOORS WITHIN ACCESSIBLE CEILING, SHAF AND CHASE AREAS FOR ALL COMPONENTS WHICH REQUIRE SERVICE ACCESS. REFER TO ARCHITECTURAL DRAWINGS FOR CEILING TYPES.
8. PROVIDE SUPPLEMENTARY STEEL AS REQUIRED FOR THE PROPER SUPPORT OF ALL SYSTEMS.
9. TRANSFORMER SECONDARY CONDUCTORS SHALL BE SIZED IN ACCORDANCE WITH TRANSFORMER SCOUT SCHEDULING SCHEDULE SHOWN ON "ELECTRICAL STANDARD SCHEDULES DRAWING" UNLESS OTHERWISE NOTED.
10. MOTOR CIRCUIT PROTECTION SHALL BE SCHEDULED IN ACCORDANCE WITH MOTOR CIRCUIT SCHEDULING SCHEDULES SHOWN ON "ELECTRICAL STANDARD SCHEDULES DRAWING" UNLESS OTHERWISE NOTED.
11. COORDINATE THE MOUNTING HEIGHTS OF DEVICES WITH ARCHITECTURAL ELEVATIONS AND THE TRADES INSTALLING THE WORK.
12. COORDINATE EXIST LOCATIONS OF ALL FLOOR SURFACE FITTINGS AND POKE-THROUGH ASSEMBLIES WITH FINAL FURNITURE LAYOUT DRAWINGS.
13. REFER TO MECHANICAL SCHEDULE SHEETS FOR ELECTRICAL REQUIREMENTS FOR MECHANICAL EQUIPMENT. SCHEDULE ALL CONNECTIONS, STARTERS, DISCONNECTS, ETC. AS REQUIRED BY SCHEDULES AND WHERE NOTED ELSEWHERE. VERIFY REQUIREMENTS OF ALL MECHANICAL EQUIPMENT WITH SHOP DRAWINGS SUBMITTALS. NOTIFY ENGINEER OF ANY CONFLICTS BETWEEN EQUIPMENT SUBMITTALS AND ELECTRICAL DRAWINGS. WHERE CIRCUIT SIZES ARE SHOWN ON THE ELECTRICAL DRAWINGS THAT DIFFER FROM WHAT IS SET FORTH ON THE MECHANICAL SCHEDULES, PROVIDE THE CIRCUIT OF HIGHER AMPACITY.
14. REFER TO TEMPERATURE CONTROL SHEETS FOR REQUIRED FIRE ALARM CONTROL MODULES, DETECT SMOKE DETECTORS, AND MOTOR CONTROLS. PROVIDE ALL ACCESSORIES INDICATED.
15. REFER TO LIGHTING CONTROL SCHEDULE FOR ROOM CONTROL AND EMERGENCY LIGHTING CIRCUIT CONTROL REQUIREMENTS. DESIGNATION FOR ROOM IS INDICATED AS A LETTERED ALPH. SYMBOL.
16. ALL EXHAUST FANS ARE LOCATED ON THE ROOF U.N.O.
17. ALL FIRE ALARM DEVICES SHALL BE COMPATIBLE WITH EXISTING NATIONAL TYPE 902 FIRE ALARM SYSTEM. PROVIDE NECESSARY COMPONENTS, MODULES, ETC. AS REQUIRED TO FULLY FUNCTIONAL SYSTEM. RE-TEST AND CERTIFY EXISTING FIRE ALARM SYSTEM AT COMPLETION OF PROJECT.

1. PROVIDE NEW 2000W NALUNA GAS GENERATOR AND GENERATOR ANNUNCIATOR. CONNECT GENERATOR TO EXISTING FEEDERS AND BRANCH CIRCUITS. PROVIDE NEW CONTROL WIRING AND GENERATOR ANNUNCIATOR SHALL BE REQUIRED.
2. PROVIDE NEW NATIONAL TIME AND SIGNAL DLU0225/UL0400 DIGITAL CLOCK SYSTEM. HALLWAYS AND STAIRS, GLASSBOARDS AND OTHER SMALL SPACES. UL0400 SHALL BE USED IN CORRIDORS, GYMNASIUMS, AND OTHER LARGE SPACES. EXISTING CLOCK WIRING IN CORRIDORS TO BE REMOVED.
3. DISCONNECT AND RECONNECT EXISTING POWER TO NEW SCOREBOARD. EXTEND CONDUIT AND WIRING AS REQUIRED.
4. POOL MECHANICAL ROOM IS CONSIDERED A CORROSIVE ENVIRONMENT. PROVIDE NEW ORCUTTING PER NEW 680.14. COORDINATE ALL POOL EQUIPMENT LOCATIONS WITH POOL CONTRACTOR.
5. ALTERNATE 5: EXISTING CORD DROPS TO BE REPLACED WITH NEW CORD REELS. HALLWAYS AND STAIRS. QUANTITIES TO BE ADJUSTED TO FIT. PROVIDE ELECTRICAL CONTRACTOR TO VERIFY LOCATIONS. CONNECT TO EXISTING WIRING. PROVIDE NEW CONDUIT AND WIRING AS REQUIRED. PROVIDE ALL MISCELLANEOUS MOUNTING STEEL.
6. ALTERNATE 5: PROVIDE RECEPTACLE AND DATA DEVICE ON FACE OF EXISTING MEZZANINE FLOOR FRAMING FOR NEW T.V. LOCATION. COORDINATE EXACT LOCATION WITH ARCHITECT.
7. ALTERNATE 5: PROVIDE POWER TO NEW LIFT. COORDINATE POWER REQUIREMENTS WITH LIFT MANUFACTURER. COORDINATE EXACT LOCATION WITH ARCHITECT.
8. CIRCUIT MECHANICAL EQUIPMENT TO MAINTAINED BRANCH CIRCUIT. EXTEND CONDUIT AND WIRE AS REQUIRED.
9. PROVIDE NEW GENERATOR DOCKING STATION, REFER TO ONE LINE DIAGRAM.
10. ALTERNATE 5: NEW EXHAUST FANS, CIRCUIT NEW MECHANICAL EQUIPMENT AS INDICATED ON PLANS.
11. DUCT SMOKE DETECTORS. COORDINATE REQUIRED QUANTITIES AND MOUNTING LOCATIONS WITH DUCT WORK TO MEET CODE. (PROVIDE 4 DUCT SMOKE DETECTORS PER 100' OF DUCT FOR BID PURPOSES. QUANTITIES TO BE ADJUSTED TO FIT. BASED ON DUCT WORK PENETRATIONS AND ROUTING LOCATIONS). COORDINATE INSTALLATION WITH THE MECHANICAL DUCT WORK SO THAT UPON DETECTION OF FIRE, SMOKE DAMPERS WILL SHUT. PROVIDE SMOKE DETECTOR SHUT OFF. DUCT SMOKE DETECTOR TO FIRE ALARM SYSTEM. CONTROL OF AIR HANDLING EQUIPMENT IS VIA THE FIRE ALARM CONTROL PANEL. PROVIDE ALL REQUIRED FIRE ALARM CONTROL MODULES AND RELAYS TO INTERFACE WITH SUPPLY FAN AND ASSOCIATED RETURN FAN (OR EXHAUST FAN). PROVIDE ALL CONTROL MODULES, RELAYS, ETC. FOR A COMPLETE OPERATING SYSTEM.
12. DISCONNECT POWER FROM EXISTING MECHANICAL UNIT TO ALLOW MECHANICAL TRADES TO REPLACE INTERNAL COMPONENTS OF UNIT. PROVIDE ADDITIONAL WIRING AS REQUIRED FOR NEW UNIT VENTILATOR EC MOTOR. RECONNECT POWER AT TIME OF INTERNAL DISCONNECT SWITCH AND WIRING. PROVIDE ALL MECHANICAL TRADES AS REQUIRED TO REPLACE INTERNAL COMPONENTS OF UNIT.
13. SMOKE DAMPER DUCT SMOKE DETECTOR SHALL BE PROVIDED BY THE ELECTRICAL CONTRACTOR. COORDINATE INSTALLATION WITH THE MECHANICAL CONTRACTOR. ELECTRICAL CONTRACTOR SHALL WIRE DUCT SMOKE DETECTOR TO FIRE ALARM SYSTEM. CIRCUIT DUCT SMOKE DETECTOR TO THE NEAREST 120 VOLT CIRCUIT. (ELECTRICAL CONTRACTOR SHALL TIE TO RECEPTACLE CIRCUIT WITH A 20A-1P SWITCH TO FEED THE DAMPER ACTUATORS). CONTROL WIRING/INTERLOCK TO AIR HANDLING EQUIPMENT IS BY THE TEMPERATURE CONTROL CONTRACTOR.
14. ALTERNATE 5: FUSE NEW EXHAUST FANS AT 5 AMPS, FIELD VERIFY LOCATION OF COMBINATION BREAKERS.
15. ALTERNATE 5: CIRCUIT MECHANICAL EDV RECEPTACLE AND PROVIDE BRANCH CIRCUIT. EXTEND CONDUIT AND WIRE AS REQUIRED.
16. 4" SO. BOX MOUNTED SHALL TO "CHEMICAL CONTROLLER". POOL CONTRACTOR SHALL PROVIDE CIRCUITING FROM JBOX TO CHEMICAL CONTROLLER TO POWER THE RECEPTABLES AS INDICATED. COORDINATE WORK WITH POOL CONTRACTOR.
17. #12@1'@20R0, 3/4" FROM MECHANICAL CONTROLLER BOX TO GFI RECEPTACLE.
18. GFI RECEPTACLE FOR "ACCU-TAB FEEDER".
19. GFI QUAD RECEPTACLE FOR "U.V. UNIT".
20. GFI RECEPTACLE FOR "O2 FEEDERS".
21. INTERCEPT EXISTING 15HP POOL PUMP FEEDING WITH 30A-3P, NEMA 4X (OZONE) DISCONNECT SWITCH AND FUSE W/CP-BYPASS THAT SERVES THE (2) NEW POOL PUMPS.
22. THE EXISTING #8 BARE COPPER BONDING CONDUCTOR (PER NEW 680.26) SHALL BE EXTENDED FROM THE EXISTING POOL PUMP MOTOR AND EXTENDED TO THE NEW POOL PUMP MOTORS. THIS #8 BARE COPPER CONDUCTOR SHALL ALSO BE EXTENDED TO THE NEW POOL EQUIPMENT. VFC, ACCU-TAB FEEDER AND U.V. UNIT.
23. STAND-BY GENERATOR RECEPTACLE FOR 0F/MDP RACK. COORDINATE EXACT LOCATION WITH OMEGA/PMC. RECEPTACLE COLOR SHALL BE RED.
24. STAND-BY GENERATOR RECEPTACLE FOR OFFICE POWER OUTAGE. COORDINATE EXACT LOCATION WITH OMEGA/PMC. RECEPTACLE COLOR SHALL BE RED.



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

3. THESE DRAWINGS REPRESENT THE GENERAL EXIST AND ARRANGEMENT OF SYSTEMS. COORDINATE EXIST EQUIPMENT LOCATIONS, ELEVATIONS, FINAL CONNECTIONS, REQUIREMENTS AND COMMENTS FOR EACH SYSTEM COMPLETE INCLUDING ALL NECESSARY COMPONENTS, FITTINGS AND OFFSETS.
4. INSTALL SYSTEMS SUCH THAT REQUIRED CLEARANCE AND SERVICE ACCESS SPACE IS PROVIDED AROUND ALL MECHANICAL AND ELECTRICAL EQUIPMENT, AND AROUND ANY COMPONENTS WHICH REQUIRE SERVICE ACCESS.
5. COORDINATE AND PROVIDE ACCESS DOORS WITHIN INACCESSIBLE CEILING, SHAF AND CHASE AREAS FOR ALL COMPONENTS WHICH REQUIRE SERVICE ACCESS. REFER TO ARCHITECTURAL DRAWINGS FOR CEILING TYPES.
6. PROVIDE SUPPLEMENTARY STEEL AS REQUIRED FOR THE PROPER SUPPORT OF ALL SYSTEMS.
7. TRANSFORMER SECONDARY CONDUCTORS SHALL BE SIZED IN ACCORDANCE WITH TRANSFORMER CIRCUIT SIZING SCHEDULE SHOWN ON ELECTRICAL STANDARD SCHEDULES DRAWING UNLESS OTHERWISE NOTED.
8. MOTOR CIRCUIT PROTECTION SHALL BE SIZED IN ACCORDANCE WITH MOTOR CIRCUIT SIZING SCHEDULES SHOWN ON ELECTRICAL STANDARD SCHEDULES DRAWING UNLESS OTHERWISE NOTED.
9. COORDINATE THE MOUNTING HEIGHTS OF DEVICES WITH ARCHITECTURAL ELEVATIONS AND THE TRADES INSTALLING THE WORK.
10. COORDINATE EXACT LOCATIONS OF ALL FLOOR SERVICE FITTINGS AND POKE-THROUGH ASSEMBLIES WITH FINAL FURNITURE LAYOUT DRAWINGS.
11. REFER TO MECHANICAL SCHEDULE SHEETS FOR ELECTRICAL REQUIREMENTS FOR MECHANICAL EQUIPMENT. PROVIDE ALL CONNECTIONS, STARTERS, DISCONNECTS, ETC AS REQUIRED BY SCHEDULES AND WHERE NOTED ELSEWHERE. VERIFY REQUIREMENTS OF MECHANICAL EQUIPMENT WITH SHOP DRAWINGS SUBMITTALS. NOTIFY ENGINEER OF ANY CONFLICTS BETWEEN EQUIPMENT SUBMITTALS AND ELECTRICAL DRAWINGS. WHERE CIRCUIT SIZES ARE SHOWN ON THE ELECTRICAL DRAWINGS THAT DIFFER FROM WHAT IS INDICATED ON THE MECHANICAL SCHEDULES, PROVIDE THE CIRCUIT OF HIGHER AMPACITY.
12. REFER TO TEMPERATURE CONTROLS SHEETS FOR REQUIRED FIRE ALARM CONTROL MODULES, DUST SMOKE DETECTORS, AND MOTOR CONTROLLERS. PROVIDE ALL ACCESSORIES INDICATED.
13. REFER TO LIGHTING CONTROL SCHEDULE FOR ROOM CONTROLS AND EMERGENCY LIGHTING CIRCUIT CONTROLS. REQUIREMENTS, DESIGNATION FOR ROOM IS INDICATED AS A LETTERED OVAL SYMBOL.
14. ALL EXHAUST FANS ARE LOCATED ON THE ROOF U.O.
15. ALL FIRE ALARM DEVICES SHALL BE COMPATIBLE WITH EXISTING NATIONAL TYPE 902 FIRE ALARM SYSTEM. PROVIDE NECESSARY COMPONENTS, MODULES, ETC AS REQUIRED TO PROVIDE A FULL FUNCTIONAL SYSTEM. RE-TEST AND CERTIFY EXISTING FIRE ALARM SYSTEM AT COMPLETION OF PROJECT.

1. PROVIDE NEW 2000W NATURAL GAS GENERATOR AND GENERATOR ANNUNCIATOR, CONNECT GENERATOR TO EXISTING FEEDERS AND BRANCH CIRCUITS. PROVIDE NEW CONTROL WIRING AND GENERATOR ANNUNCIATOR WIRING AS REQUIRED.
2. PROVIDE NEW NATIONAL TIME AND SIGNAL DULUZZ/SLU400 DIGITAL CLOCK SYSTEM. DULUZZ SHALL BE USED IN OFFICES, CLASSROOMS, AND OTHER SMALL SPACES. SLU400 SHALL BE USED IN CORRIDORS, DINING/MESS, AND OTHER LARGE SPACES. EXISTING CLOCK SYSTEM WIRING TO BE REUSED.
3. DISCONNECT AND RECONNECT EXISTING POWER TO NEW SCOREBOARD, EXTEND CONDUIT AND WIRING AS REQUIRED.
4. POOL MECHANICAL ROOM IS CONSIDERED A CORROSIVE ENVIRONMENT, PROVIDE NEW ORCULMENT PER NEC 680.14. COORDINATE ALL POOL EQUIPMENT LOCATIONS WITH POOL CONTRACTOR.
5. ALTERNATE 5: EXISTING CORD DROPS TO BE REPLACED WITH NEW CORD REELS, HUBBELL MODEL H8L45123 WITH DUPLEX RECEPTACLE AND PIVOT BASE. ELECTRICAL CONTRACTOR TO VERIFY ALL EXISTING CORDS ARE EXISTING CIRCUITS, EXTEND CONDUIT AND WIRING AS REQUIRED, PROVIDE ALL MISCELLANEOUS MOUNTING SLEEVES.
6. ALTERNATE 5: PROVIDE RECEPTACLE AND DATA DEVICE ON FACE OF EXISTING MEZZANINE FLOOR FRAMING FOR NEW T.V. LOCATION, COORDINATE EXACT LOCATION WITH ARCHITECT.
7. ALTERNATE 5: PROVIDE POWER TO NEW LIFT COORDINATE POWER REQUIREMENTS WITH LIFT MANUFACTURER, COORDINATE EXACT LOCATION WITH ARCHITECT.
8. CIRCUIT MECHANICAL EQUIPMENT TO MAINTAINED BRANCH CIRCUIT, EXTEND CONDUIT AND WIRE AS REQUIRED.
9. PROVIDE NEW GENERATOR DOCKING STATION, REFER TO ONE LINE DIAGRAM.
10. ALTERNATE 5: NEW EXHAUST FANS, CIRCUIT NEW MECHANICAL EQUIPMENT AS INDICATED ON PLANS.
11. DUCT SMOKE DETECTORS: COORDINATE REQUIRED QUANTITIES AND MOUNTING LOCATIONS WITH DUCT WORKER (PROVIDE 4 DUCT SMOKE DETECTORS PER AHU/RTU/AC FOR BOI PURPOSES, QUANTITIES WILL BE ADJUSTED IN FIELD BASED ON DUCT WORK PENETRATIONS AND ROUTING LOCATIONS), COORDINATE DETECTOR MOUNTING VIA THE FIRE ALARM CONTROL PANEL, PROVIDE ALL REQUIRED FIRE ALARM CONTROL MODULES AND DELAYS TO INTERFACE WITH SUPPLY FAN AND ASSOCIATED RETURN FAN (OR EXHAUST FAN), PROVIDE ALL CONTROL MODULES, RELAYS, ETC. FOR A COMPLETE OPERATING SYSTEM.
12. DISCONNECT POWER FROM EXISTING MECHANICAL UNIT TO ALLOW MECHANICAL TRADES TO REPLACE INTERNAL COMPONENTS OF UNIT. PROVIDE ADDITIONAL WIRING AS REQUIRED FOR NEW UNIT VENTILATOR EX FAN MOTOR, RECONNECT POWER AT THE AS COORDINATED WITH MECHANICAL TRADES, AFTER MECHANICAL TRADES HAS REPLACED INTERNAL COMPONENTS OF UNIT.
13. SMOKE DAMPER DUCT SMOKE DETECTOR SHALL BE PROVIDED BY THE ELECTRICAL CONTRACTOR, COORDINATE INSTALLATION WITH THE MECHANICAL CONTRACTOR. ELECTRICAL CONTRACTOR SHALL WIRE DUCT SMOKE DETECTOR TO FIRE ALARM SYSTEM, AND CIRCUIT DAMPER ACTUATOR TO THE NEAREST 120 VOLT CIRCUIT (ELECTRICAL CONTRACTOR SHALL TIE INTO RECEPTACLE CIRCUIT WITH A 204-1IP TO FEED THE DAMPER ACTUATOR), CONTROL WIRING/ANALOG POWER AT THE HANDLING EQUIPMENT SHALL BE THE TEMPERATURE CONTROL CONTRACTOR.



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PBA Project No.: 2020-2267

FARMINGTON PUBLIC SCHOOLS
SITE AND BUILDING IMPROVEMENTS TO
FARMINGTON HIGH SCHOOL
2020 BOND ISSUE - BID PACKAGE No. 3 - 2021 PROJECTS

KEY PLAN
NO SCALE

DRAWN BY: GBS
CHECKED BY: GJZ

REVISIONS:

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CONSTRUCTION	10-01-2

SHEET NO.:

E3.1J

JOB NO. 201879



FIRST FLOOR POWER PLAN - ZONE 'K'
SCALE: 1/8" = 1' - 0"

5. THESE DRAWINGS REPRESENT THE GENERAL EXIST AND ARRANGEMENT OF SYSTEMS. COORDINATE EXIST EQUIPMENT LOCATIONS, ELEVATIONS, FINAL CONNECTION REQUIREMENTS AND PROVIDE EACH SYSTEM COMPLETE INCLUDING ALL NECESSARY COMPONENTS, FITTINGS AND OFFSETS.
6. INSTALL SYSTEMS SUCH THAT REQUIRED CLEARANCE AND SERVICE ACCESS SPACE IS PROVIDED AROUND ALL MECHANICAL AND ELECTRICAL EQUIPMENT, AND AROUND ANY COMPONENTS WHICH REQUIRE SERVICE ACCESS.
7. COORDINATE AND PROVIDE ACCESS DOORS WITHIN ACCESSIBLE CEILING, SHAF- T AND CHASE AREAS FOR ALL COMPONENTS WHICH REQUIRE SERVICE ACCESS. REFER TO ARCHITECTURAL DRAWINGS FOR CEILING TYPES.
8. PROVIDE SUPPLEMENTARY STEEL AS REQUIRED FOR THE PROPER SUPPORT OF ALL SYSTEMS.
9. TRANSFORMER SECONDARY CONDUCTORS SHALL BE SIZED IN ACCORDANCE WITH TRANSFORMER DATA SHEET SCHEDULES SHOWN ON "ELECTRICAL STANDARD SCHEDULES DRAWING" UNLESS OTHERWISE NOTED.
10. MOTOR CIRCUIT PROTECTION SHALL BE SIZED IN ACCORDANCE WITH MOTOR CIRCUIT SIZING SCHEDULES SHOWN ON "ELECTRICAL STANDARD SCHEDULES DRAWING" UNLESS OTHERWISE NOTED.
11. COORDINATE THE MOUNTING HEIGHTS OF DEVICES WITH ARCHITECTURAL ELEVATIONS AND THE TRADES INSTALLING THE WORK.
12. COORDINATE EXACT LOCATIONS OF ALL FLOOR SURFACE FITTINGS AND POKE-THROUGH ASSEMBLIES WITH FINAL FURNITURE LAYOUT DRAWINGS.
13. REFER TO MECHANICAL SCHEDULE SHEETS FOR ELECTRICAL REQUIREMENTS FOR MECHANICAL EQUIPMENT, SUCH AS CONNECTIONS, STARTERS, DISCONNECTS, ETC AS REQUIRED BY SCHEDULES AND WHERE NOTED ELSEWHERE. VERIFY REQUIREMENTS FOR MECHANICAL EQUIPMENT WITH SHOP DRAWINGS SUBMITTALS. NOTIFY ENGINEER OF ANY CONFLICTS BETWEEN EQUIPMENT SUBMITTALS AND ELECTRICAL DRAWINGS. WHERE CIRCUIT SIZES ARE SHOWN ON THE ELECTRICAL DRAWINGS THAT DIFFER FROM THAT INDICATED ON THE MECHANICAL SCHEDULES, PROVIDE THE CIRCUIT OF HIGHER AMPACITY.
14. REFER TO TEMPERATURE CONTROL SHEETS FOR REQUIRED FIRE ALARM CONTROL MODULES, DETECT SMOKE DETECTORS, AND MOTOR CONTROLS. PROVIDE ALL ACCESSORIES INDICATED.
15. REFER TO LIGHTING CONTROL SCHEDULE FOR ROOM CONTROL AND EMERGENCY LIGHTING CIRCUIT CONTROL REQUIREMENTS. DESIGNATION FOR ROOM IS INDICATED AS A LETTERED ALPH. SYMBOL.
16. ALL EXHAUST FANS ARE LOCATED ON THE ROOF U.N.O.
17. ALL FIRE ALARM DEVICES SHALL BE COMPATIBLE WITH EXISTING NATIONAL TYPE 902 FIRE ALARM SYSTEM. PROVIDE NECESSARY COMPONENTS, MODULES, ETC. AS REQUIRED. SCHEDULE FOR FULL SYSTEM RE-TEST AND CERTIFY EXISTING FIRE ALARM SYSTEM AT COMPLETION OF PROJECT.

1. PROVIDE NEW 2000W NAKUNA GAS GENERATOR AND GENERATOR ANNUNCIATOR. CONNECT GENERATOR TO EXISTING FEEDERS AND BRANCH CIRCUITS. PROVIDE NEW CONTROL WIRING AND GENERATOR ANNUNCIATOR AS REQUIRED.
2. PROVIDE NEW NATIONAL TIME AND SIGNAL DL2225/UL4040 DIGITAL CLOCK SYSTEM. DL2225 SHALL BE USED IN OFFICES, CLASSROOMS, AND OTHER SMALL SPACES. UL4040 SHALL BE USED IN LOBBIES, GYMNASIUMS, AND OTHER LARGE SPACES. EXISTING CLOCK SYSTEM WIRING TO BE REUSED.
3. DISCONNECT AND RECONNECT EXISTING POWER TO NEW SCOREBOARD. EXTEND CONDUIT AND WIRING AS REQUIRED.
4. POOL MECHANICAL ROOM IS CONSIDERED A CORROSIVE ENVIRONMENT. PROVIDE NEW CRUISING PER NEC 680.14. COORDINATE ALL POOL EQUIPMENT LOCATIONS WITH POOL CONTRACTOR.
5. ALTERNATE 5: EXISTING CORD DROPS TO BE REPLACED WITH NEW CORD REELS. HUBBELL MODEL 48149212 WITH DUPLEX RECEPTACLE AND PIWOT BASE. ELECTRICAL CONTRACTOR VERY LIKELY TO REQUEST COORDINATION WITH SUPPLY CONTRACTOR AND WIRING AS REQUIRED. PROVIDE ALL MISCELLANEOUS MOUNTING SLEWS.
6. ALTERNATE 5: PROVIDE RECEPTACLE AND DATA DEVICE ON FACE OF EXISTING WEAZINGFINE FRAME FOR NEW T.V. LOCATION. COORDINATE EXIST LOCATIONS WITH ARCHITECT.
7. ALTERNATE 5: PROVIDE POWER TO NEW LIFT. COORDINATE POWER REQUIREMENTS WITH LIFT MANUFACTURER. COORDINATE EXIST LOCATION WITH ARCHITECT.
8. CIRCUIT MECHANICAL EQUIPMENT TO MAINTAINED BRANCH CIRCUIT. EXTEND CONDUIT AND WIRE AS REQUIRED.
9. PROVIDE NEW GENERATOR DOCKING STATION, REFER TO ONE LINE DIAGRAM.
10. ALTERNATE 5: NEW EXHAUST FANS, CIRCUIT NEW MECHANICAL EQUIPMENT AS INDICATED ON PLANS.
11. DUCT SMOKE DETECTORS: COORDINATE REQUIRED EXISTING QUANTITIES AND MOUNTING LOCATIONS WITH MECHANICAL. MEET CODE 309.4.1. DUCT SMOKE DETECTORS PER AHU/RTU/AC FOR BOI PURPOSES. QUANTITIES WILL BE ADJUSTED IN FIELD BASED ON DUCT WORK PENETRATIONS AND ROUTING LOCATIONS. COORDINATE INSTALLATION WITH ALL DUCT WORKING SO THAT ALL DETECTOR LOCATIONS ARE CORRECT. SMOKE DETECTOR WILL SHUT DOWN CONTROL AIR HANDLING EQUIPMENT. SMOKE DETECTOR TO FIRE ALARM SYSTEM. CONTRACTOR SHALL WIRE SMOKE DETECTOR TO FIRE ALARM SYSTEM. PLAN, PROVIDE ALL REQUIRED FIRE ALARM CONTROL MODULES AND RELAYS. PROVIDE ALL SUPPLY AIR AND ASSOCIATED RETURN TIRE (OR EXHAUST FAN). PROVIDE ALL CONTROL MODULES, RELAYS, ETC. FOR A COMPLETE OPERATING SYSTEM.
12. DISCONNECT POWER FROM EXISTING MECHANICAL UNIT TO ALLOW MECHANICAL TRADES TO REPLACE INTERNAL COMPONENTS OF UNIT. PROVIDE ADDITIONAL WIRING AS REQUIRED FOR NEW UNIT VENTILATOR & MOTOR. RECONNECT POWER AT THE COORDINATED WITH MECHANICAL TRADES. AFTER MECHANICAL TRADES HAS REPLACED INTERNAL COMPONENTS OF UNIT.
13. SMOKE DAMPER DUCT SMOKE DETECTOR SHALL BE PROVIDED BY THE ELECTRICAL CONTRACTOR. COORDINATE INSTALLATION WITH THE MECHANICAL CONTRACTOR. ELECTRICAL CONTRACTOR SHALL WIRE DUCT SMOKE DETECTOR TO FIRE ALARM SYSTEM, AND CIRCUIT DAMPER ACTUATOR TO THE NEAREST 120 volt circuit (ELECTRICAL CONTRACTOR SHALL TIE INTO RECEPTACLE CIRCUIT WITH A 20A-IP SWITCH TO FEED THE DAMPER ACTUATOR). CONTROL WIRING/INTERLOCK TO AIR HANDLING EQUIPMENT IS BY THE MECHANICAL CONTRACTOR.

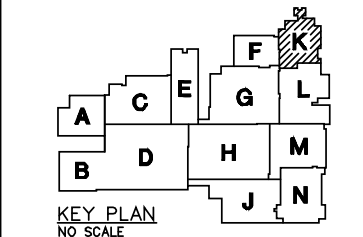
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FARMINGTON PUBLIC SCHOOLS
**SITE AND BUILDING IMPROVEMENTS TO
 FARMINGTON HIGH SCHOOL**
 2020 BOND ISSUE - BID PACKAGE No. 3 - 2021 PROJECTS

FIRST FLOOR POWER PLAN
ZONE 'K'



PRELIMINARY	☐
DESIGN DEVELOPMENT	☐
CONSTRUCTION	☒
FINAL RECORD	☐

DRAWN BY: GBS
CHECKED BY: GJZ

REVISIONS:

[illegible]

CONSTRUCTION	10-01-2
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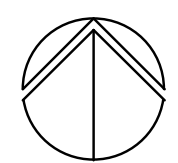
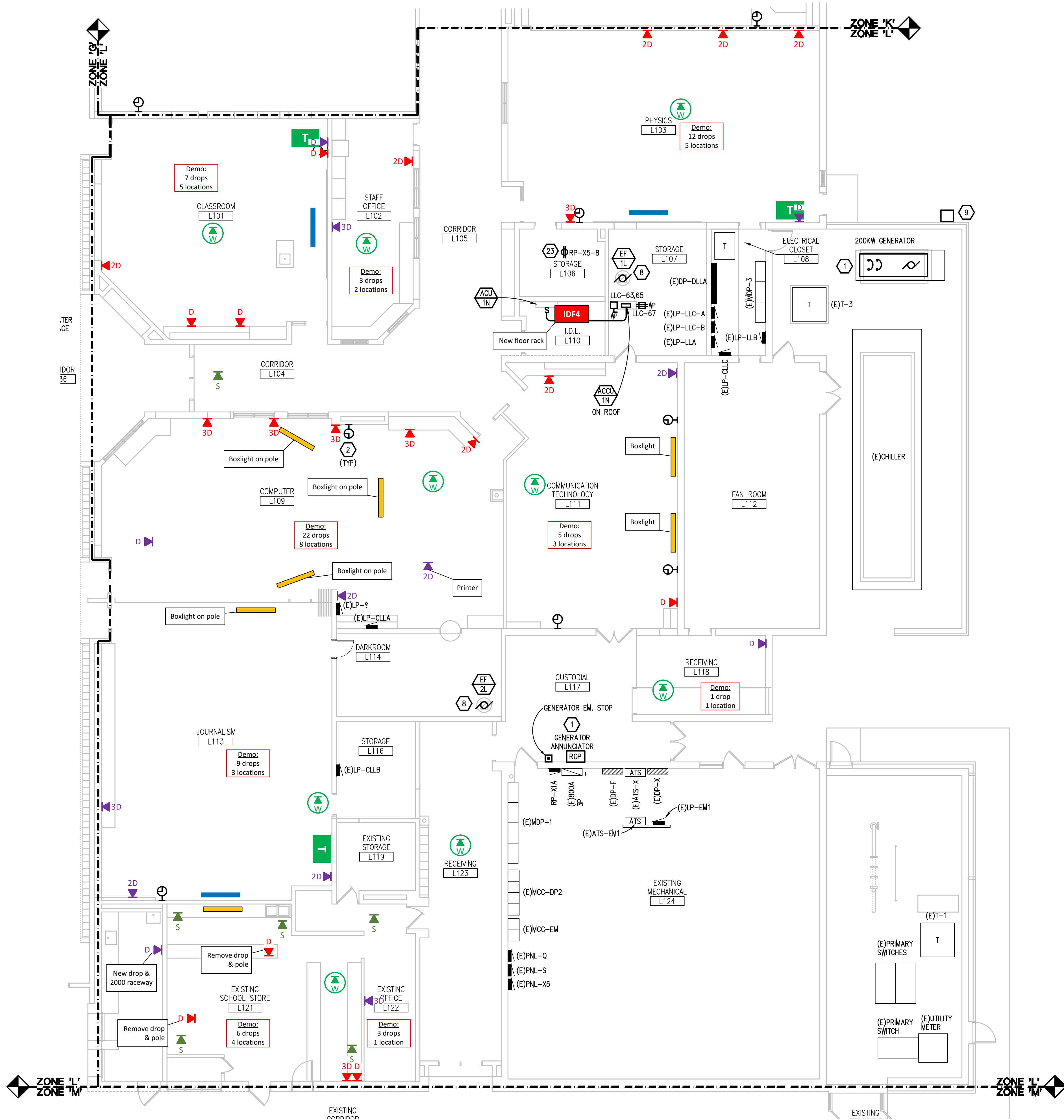
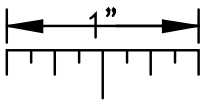
DATE:	AUGUST 19, 2021
SHEET NO.:	

E3.1K

JOB NO. 201879

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THE FOLLOWING DIMENSION EQUALS
ONE INCH WHEN PRINTED TO SCALE.



FIRST FLOOR POWER PLAN - ZONE 'L'
SCALE: 1/8" = 1' - 0"

ELECTRICAL GENERAL NOTES:

- THESE DRAWINGS REPRESENT THE GENERAL EXTENT AND ARRANGEMENT OF SYSTEMS. COORDINATE EXACT EQUIPMENT LOCATIONS, ELEVATIONS, FINAL CONNECTION REQUIREMENTS AND PROVIDE EACH SYSTEM COMPLETE INCLUDING ALL NECESSARY COMPONENTS, FITTINGS AND OFFSETS.
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WA

WAKELY ASSOCIATES, INC.
ARCHITECTS

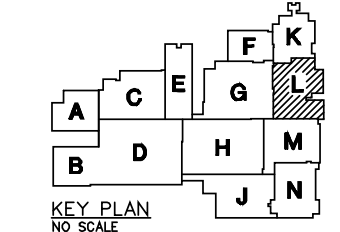
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WARREN, MICHIGAN 48093
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FARMINGTON PUBLIC SCHOOLS
SITE AND BUILDING IMPROVEMENTS TO
FARMINGTON HIGH SCHOOL
2020 BOND ISSUE - BID PACKAGE No. 3 - 2021 PROJECTS

FIRST FLOOR POWER PLAN -
ZONE 'L'



PRELIMINARY ☐
DESIGN DEVELOPMENT ☐
CONSTRUCTION ☒
FINAL RECORD ☐

DRAWN BY: GBS
CHECKED BY: GJZ

REVISIONS:

CONSTRUCTION 10-01-21

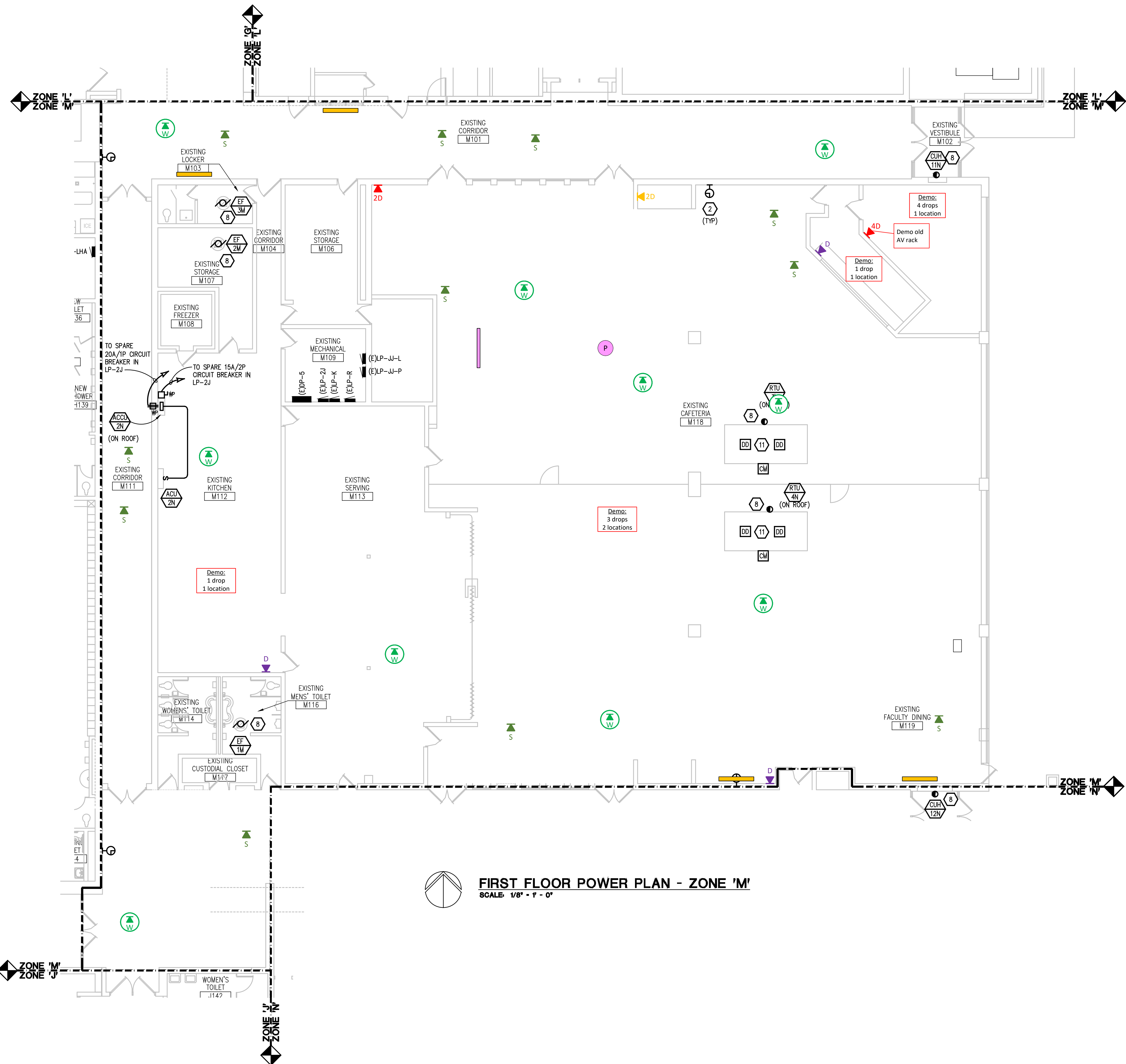
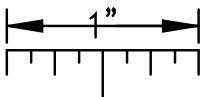
DATE: AUGUST 19, 2021

SHEET NO.:

E3.1L

JOB NO. 201879

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ONE INCH WHEN PRINTED TO SCALE.



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WA

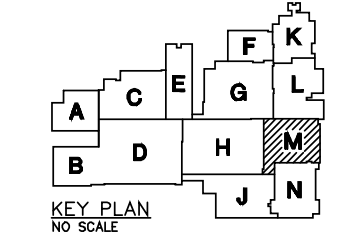
WAKELY ASSOCIATES, INC.
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FARMINGTON PUBLIC SCHOOLS
SITE AND BUILDING IMPROVEMENTS TO
FARMINGTON HIGH SCHOOL
2020 BOND ISSUE - BID PACKAGE No. 3 - 2021 PROJECTS

FIRST FLOOR POWER PLAN -
ZONE 'M'



PRELIMINARY ☐
DESIGN DEVELOPMENT ☐
CONSTRUCTION ☒
FINAL RECORD ☐

DRAWN BY: GBS
CHECKED BY: GJZ

REVISIONS:

CONSTRUCTION 10-01-21

DATE: AUGUST 19, 2021

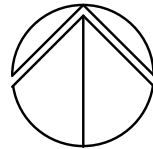
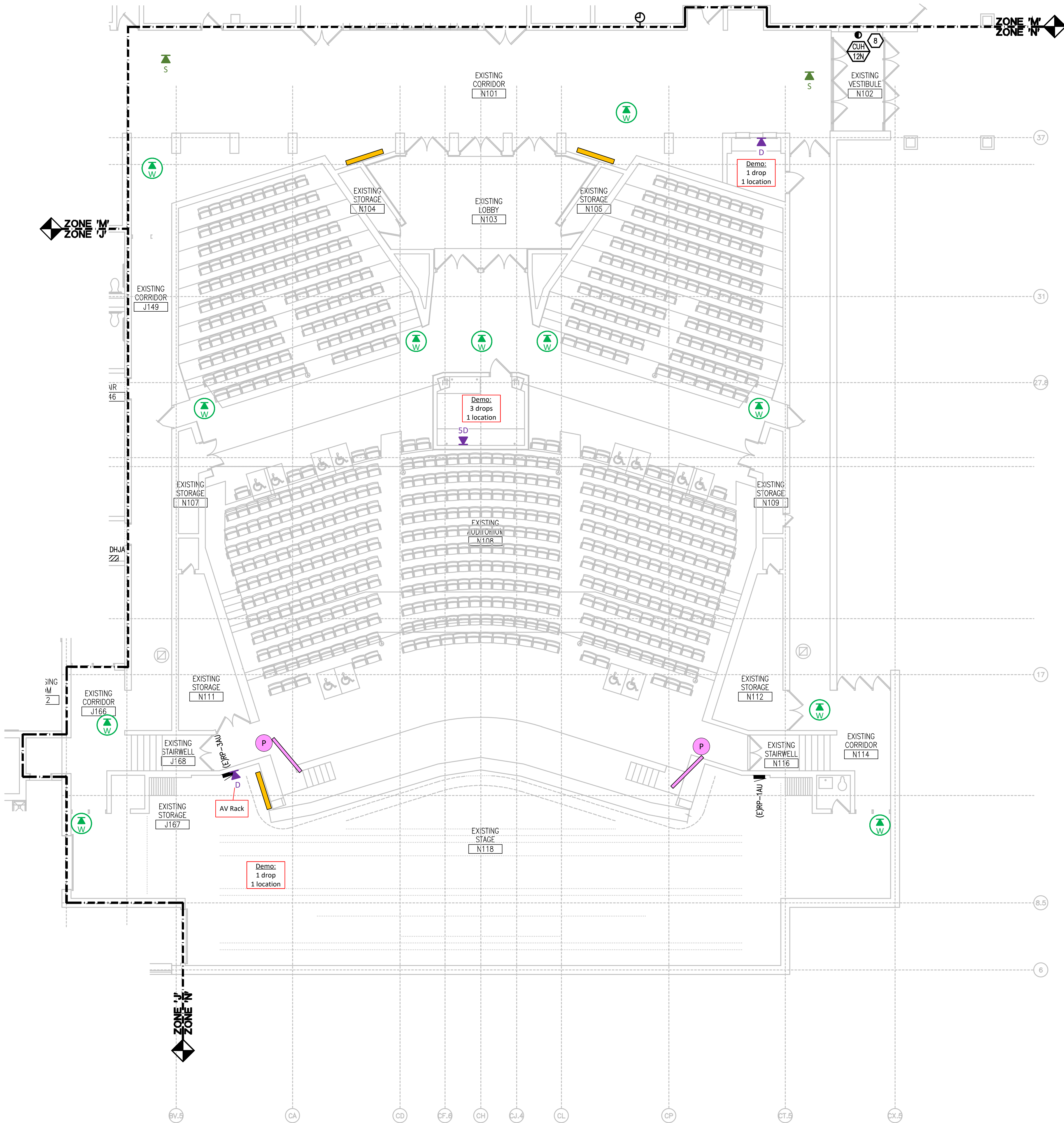
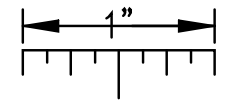
SHEET NO.:

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JOB NO. 201879

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THE FOLLOWING DIMENSION EQUALS
ONE INCH WHEN PRINTED TO SCALE.



FIRST FLOOR POWER PLAN - ZONE 'N'
SCALE: 1/8" = 1' - 0"

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- ALTERNATE 5: FUSE NEW EXHAUST FANS AT 5 AMPS, FIELD VERIFY LOCATION OF COMBINATION STARTERS.
- ALTERNATE 6: CIRCUIT MECHANICAL EQUIPMENT TO MAINTAINED BRANCH CIRCUIT. EXTEND CONDUIT AND WIRE AS REQUIRED.
- 4" SQ JBOX MOUNTED NEXT TO "CHEMICAL CONTROLLER". POOL CONTRACTOR SHALL PROVIDE CIRCUITING FROM JBOX TO CHEMICAL CONTROLLER TO POWER THE RECEPTACLES AS INDICATED. COORDINATE WORK WITH POOL CONTRACTOR.
- 2#1281#120RD, 3/4" C FROM CHEMICAL CONTROLLER JBOX TO GFI RECEPTACLE.
- GFI RECEPTACLE FOR "ACCU-TAB FEEDER".
- GFI QUAD RECEPTACLE FOR "U.V. UNIT".
- GFI RECEPTACLE FOR "CO2 FEEDER".
- INTERCEPT EXISTING 15HP POOL PUMP CIRCUITING WITH 30A-3P, NEMA 4X (FIBERGLASS) DISCONNECT SWITCH AND FEED VFC/BYPASS THAT SERVES THE (2) NEW POOL PUMPS.
- THE EXISTING #8 BARE COPPER BONDING CONDUCTOR (PER NEC 680.26) SHALL BE EXTENDED FROM THE MOTOR AND EXTENDED TO THE NEW POOL PUMP MOTORS. THIS #8 BARE COPPER CONDUCTOR SHALL ALSO BE EXTENDED TO THE NEW POOL EQUIPMENT: VFC, ACCU-TAB FEEDER AND U.V. UNIT.
- STAND-BY GENERATOR RECEPTACLE FOR IDF/MDF RACK. COORDINATE EXACT LOCATION WITH OWNER/PMC. RECEPTACLE COLOR SHALL BE RED.
- STAND-BY GENERATOR RECEPTACLE FOR OFFICE POWER OUTAGE. COORDINATE EXACT LOCATION WITH OWNER. ROUTE CIRCUITING IN IVORY WIREMOLD IN FINISHED AREAS. RECEPTACLE COLOR SHALL BE RED.



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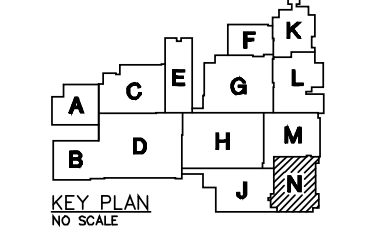
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PBA Project No.: 2020-0887

FARMINGTON PUBLIC SCHOOLS
SITE AND BUILDING IMPROVEMENTS TO
FARMINGTON HIGH SCHOOL
2020 BOND ISSUE - BID PACKAGE No. 3 - 2021 PROJECTS

FIRST FLOOR POWER PLAN -
ZONE 'N'



PRELIMINARY ☐
DESIGN DEVELOPMENT ☐
CONSTRUCTION ☒
FINAL RECORD ☐

DRAWN BY: GBS
CHECKED BY: GJZ

REVISIONS:

CONSTRUCTION 10-01-21

DATE: AUGUST 19, 2021

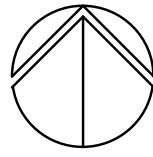
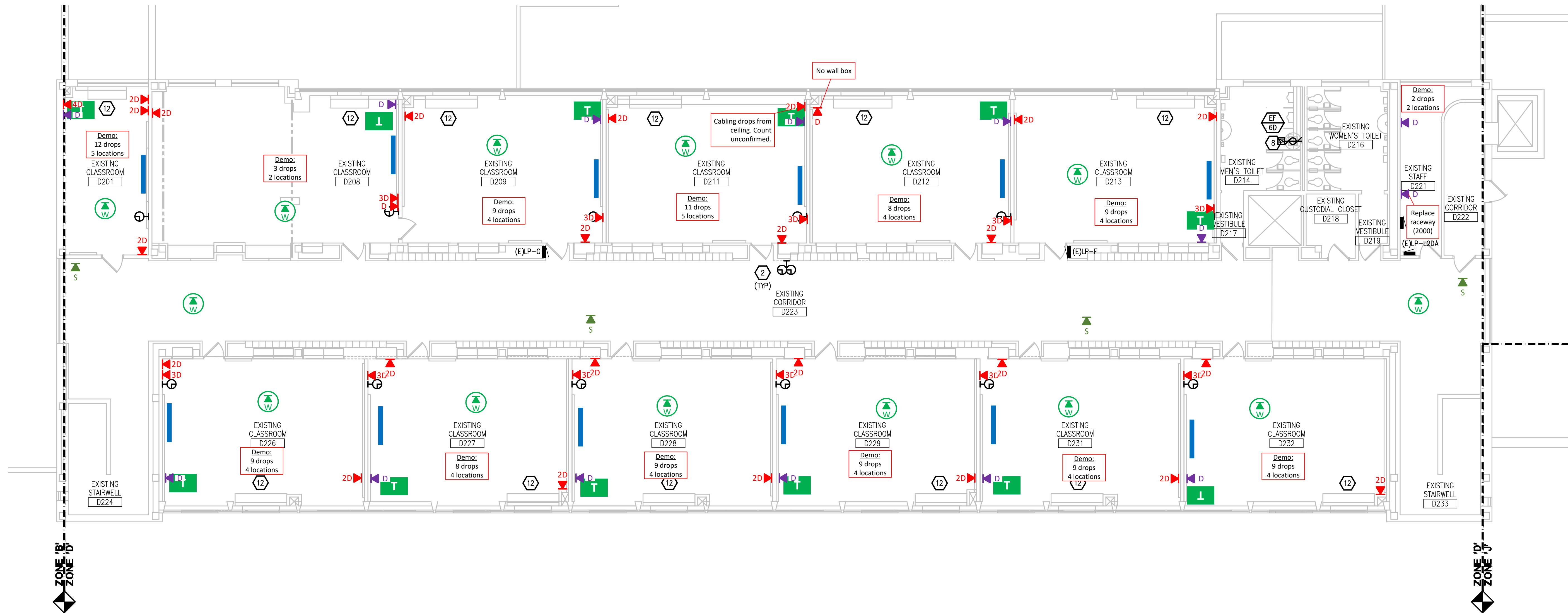
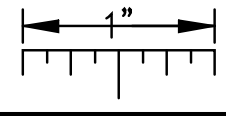
SHEET NO.:

E3.1N

JOB NO. 201879

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THE FOLLOWING DIMENSION EQUALS
ONE INCH WHEN PRINTED TO SCALE.



SECOND FLOOR POWER PLAN - ZONE 'D'
SCALE: 1/8" = 1' - 0"

ELECTRICAL GENERAL NOTES:

- THESE DRAWINGS REPRESENT THE GENERAL EXTENT AND ARRANGEMENT OF SYSTEMS, COORDINATE EXACT EQUIPMENT LOCATIONS, ELEVATIONS, FINAL CONNECTION REQUIREMENTS AND PROVIDE EACH SYSTEM COMPLETE INCLUDING ALL NECESSARY COMPONENTS, FITTINGS AND OFFSETS.
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- COORDINATE AND PROVIDE ACCESS DOORS WITHIN INACCESSIBLE CEILING, SHAFT, AND CHASE AREAS FOR ALL COMPONENTS WHICH REQUIRE SERVICE ACCESS. REFER TO ARCHITECTURAL DRAWINGS FOR CEILING TYPES.
- PROVIDE SUPPLEMENTARY STEEL AS REQUIRED FOR THE PROPER SUPPORT OF ALL SYSTEMS.
- TRANSFORMER SECONDARY CONDUCTORS SHALL BE SIZED IN ACCORDANCE WITH TRANSFORMER CIRCUIT SIZING SCHEDULE SHOWN ON "ELECTRICAL STANDARD SCHEDULES DRAWING" UNLESS OTHERWISE NOTED.
- MOTOR CIRCUIT PROTECTION SHALL BE SIZED IN ACCORDANCE WITH MOTOR CIRCUIT SIZING SCHEDULES SHOWN ON "ELECTRICAL STANDARD SCHEDULES DRAWING" UNLESS OTHERWISE NOTED.
- COORDINATE THE MOUNTING HEIGHTS OF DEVICES WITH ARCHITECTURAL ELEVATIONS AND THE TRADES INSTALLING THE WORK.
- COORDINATE EXACT LOCATIONS OF ALL FLOOR SERVICE FITTINGS AND POKE-THROUGH ASSEMBLIES WITH FINAL FURNITURE LAYOUT DRAWINGS.
- REFER TO MECHANICAL SCHEDULE SHEETS FOR ELECTRICAL REQUIREMENTS FOR MECHANICAL EQUIPMENT. PROVIDE ALL CONNECTIONS, STARTERS, DISCONNECTS, ETC. AS REQUIRED BY SCHEDULES AND WHERE NOTED ELSEWHERE. VERIFY REQUIREMENTS OF ALL MECHANICAL EQUIPMENT WITH SHOP DRAWINGS SUBMITTALS. NOTIFY ENGINEER OF ANY CONFLICTS BETWEEN EQUIPMENT SUBMITTALS AND ELECTRICAL DRAWINGS. WHERE CIRCUIT SIZES ARE SHOWN ON THE ELECTRICAL DRAWINGS THAT DIFFER FROM WHAT IS INDICATED ON THE MECHANICAL SCHEDULES, PROVIDE THE CIRCUIT OF HIGHER AMPACITY.
- REFER TO TEMPERATURE CONTROLS SHEETS FOR REQUIRED FIRE ALARM CONTROL MODULES, DUCT SMOKE DETECTORS, AND MOTOR CONTROLLERS. PROVIDE ALL ACCESSORIES INDICATED.
- REFER TO LIGHTING CONTROL SCHEDULE FOR ROOM CONTROL AND EMERGENCY LIGHTING CIRCUIT CONTROL REQUIREMENTS. DESIGNATION FOR ROOM IS INDICATED AS A LETTERED OVAL SYMBOL.
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CONSTRUCTION KEY NOTES:

- PROVIDE NEW 200KW NATURAL GAS GENERATOR AND GENERATOR ANNUNCIATOR. CONNECT GENERATOR TO EXISTING FEEDERS AND BRANCH CIRCUITS. PROVIDE NEW CONTROL WIRING AND GENERATOR ANNUNCIATOR WIRING AS REQUIRED.
- PROVIDE NEW NATIONAL TIME AND SIGNAL DLU225/DLU400 DIGITAL CLOCK SYSTEM. DLU225 SHALL BE USED IN OFFICES, CLASSROOMS, AND OTHER SMALL SPACES. DLU400 SHALL BE USED IN CORRIDORS, GYMNASIUMS, AND OTHER LARGE SPACES. EXISTING CLOCK SYSTEM WIRING TO BE REUSED.
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- POOL MECHANICAL ROOM IS CONSIDERED A CORROSIVE ENVIRONMENT. PROVIDE NEW CIRCUITING PER NEC 680.14. COORDINATE ALL POOL EQUIPMENT LOCATIONS WITH POOL CONTRACTOR.
- ALTERNATE 5: EXISTING CORD DROPS TO BE REPLACED WITH NEW CORD REELS. HUBBELL MODEL HB45123 WITH DUPLEX RECEPTACLE AND PIVOT BASE. ELECTRICAL CONTRACTOR TO VERIFY LOCATIONS. CONNECT TO EXISTING CIRCUITING. EXTEND CONDUIT AND WIRING AS REQUIRED. PROVIDE ALL MISCELLANEOUS MOUNTING STEEL.
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- DUCT SMOKE DETECTORS. COORDINATE REQUIRED QUANTITIES AND MOUNTING LOCATIONS WITH DUCT WORK TO MEET CODE. (PROVIDE 4 DUCT SMOKE DETECTORS PER AHU/RTU/AC FOR BID PURPOSES. QUANTITIES WILL BE ADJUSTED IN FIELD BASED ON DUCT WORK PENETRATIONS AND ROUTING LOCATIONS). COORDINATE INSTALLATION WITH THE MECHANICAL DUCT WORK SO THAT UPON DETECTION OF SMOKE, THE SUPPLY/RETURN FAN WILL SHUT DOWN. CONTRACTOR SHALL WIRE DUCT SMOKE DETECTOR TO FIRE ALARM SYSTEM. CONTROL OF AIR HANDLING EQUIPMENT IS VIA THE FIRE ALARM CONTROL PANEL. PROVIDE ALL REQUIRED FIRE ALARM CONTROL MODULES AND RELAYS TO INTERFACE WITH SUPPLY FAN AND ASSOCIATED RETURN FAN (OR EXHAUST FAN). PROVIDE ALL CONTROL MODULES, RELAYS, ETC. FOR A COMPLETE OPERATING SYSTEM.
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ARCHITECTS

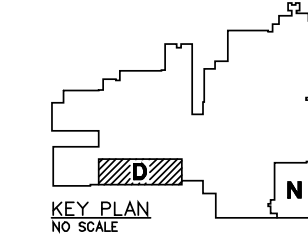
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FARMINGTON PUBLIC SCHOOLS
SITE AND BUILDING IMPROVEMENTS TO
FARMINGTON HIGH SCHOOL
2020 BOND ISSUE - BID PACKAGE No. 3 - 2021 PROJECTS

SECOND FLOOR POWER
PLAN - ZONE 'D'



- PRELIMINARY ☐
DESIGN DEVELOPMENT ☐
CONSTRUCTION ☒
FINAL RECORD ☐

DRAWN BY: GBS
CHECKED BY: GJZ

REVISIONS:

CONSTRUCTION 10-01-21

DATE: AUGUST 19, 2021

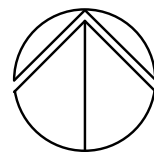
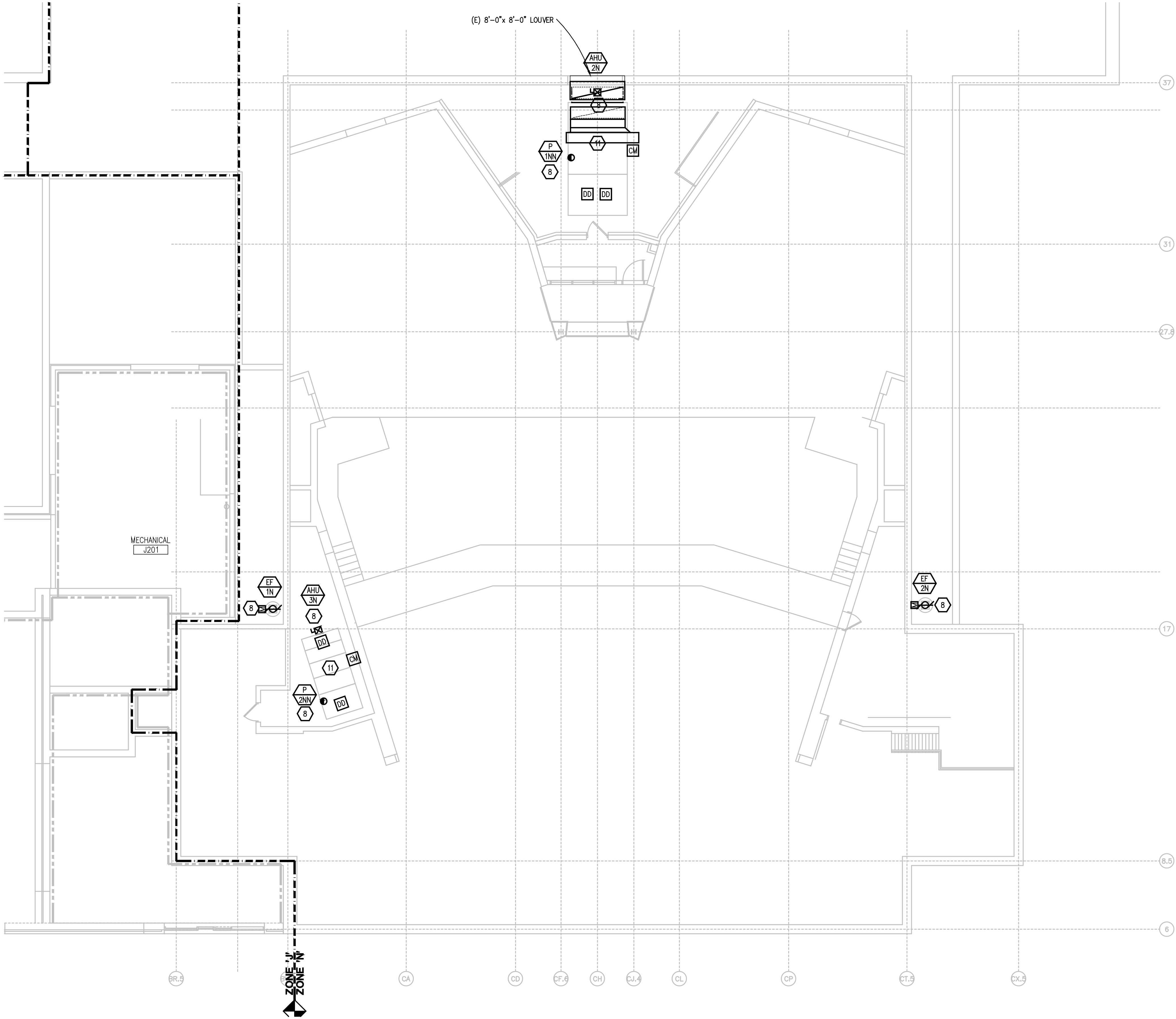
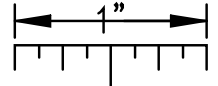
SHEET NO.:

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THE FOLLOWING DIMENSION EQUALS
ONE INCH WHEN PRINTED TO SCALE.



SECOND FLOOR POWER PLAN - ZONE 'N'

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

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- 2#12&1#12GND, 3/4" FROM CHEMICAL CONTROLLER JBOX TO GFI RECEPTACLE.
- GFI RECEPTACLE FOR "ACQU-TAB FEEDER".
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- STANDARD GENERATOR RECEPTACLE FOR THE AIDE RACK. COORDINATE EXACT

WA

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ARCHITECTS

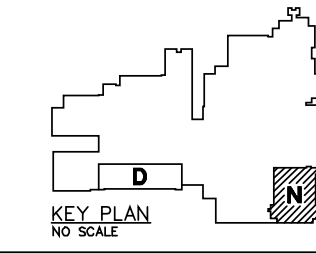
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PEL Project No.: 2020-0887

FARMINGTON PUBLIC SCHOOLS
SITE AND BUILDING IMPROVEMENTS TO
FARMINGTON HIGH SCHOOL
2020 BOND ISSUE - BID PACKAGE No. 3 - 2021 PROJECTS

SECOND FLOOR POWER
PLAN - ZONE 'N'



PRELIMINARY ☐
DESIGN DEVELOPMENT ☐
CONSTRUCTION ☒
FINAL RECORD ☐

DRAWN BY: GBS
CHECKED BY: GJZ

REVISIONS:

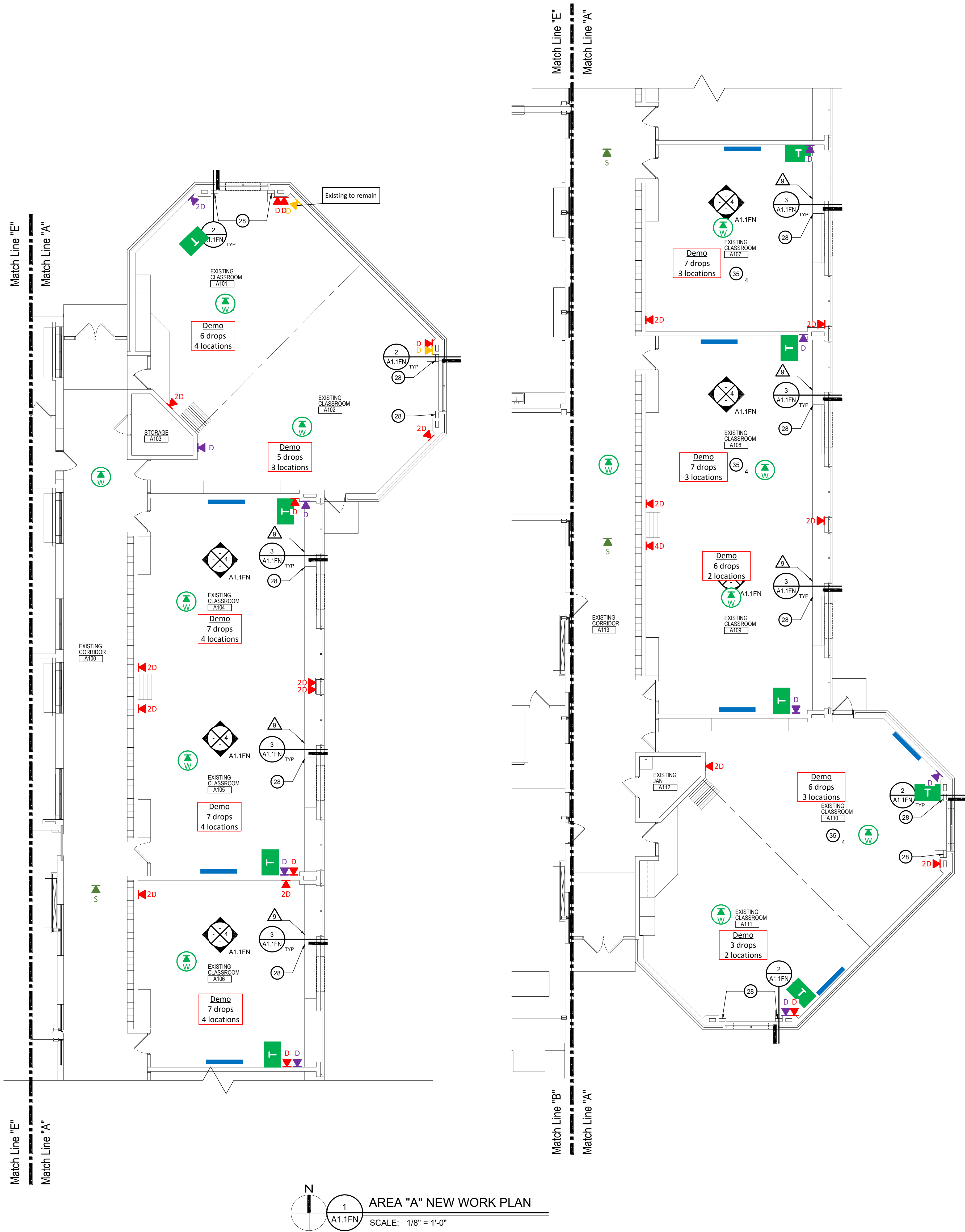
CONSTRUCTION 10-01-21

DATE: AUGUST 19, 2021

SHEET NO.:

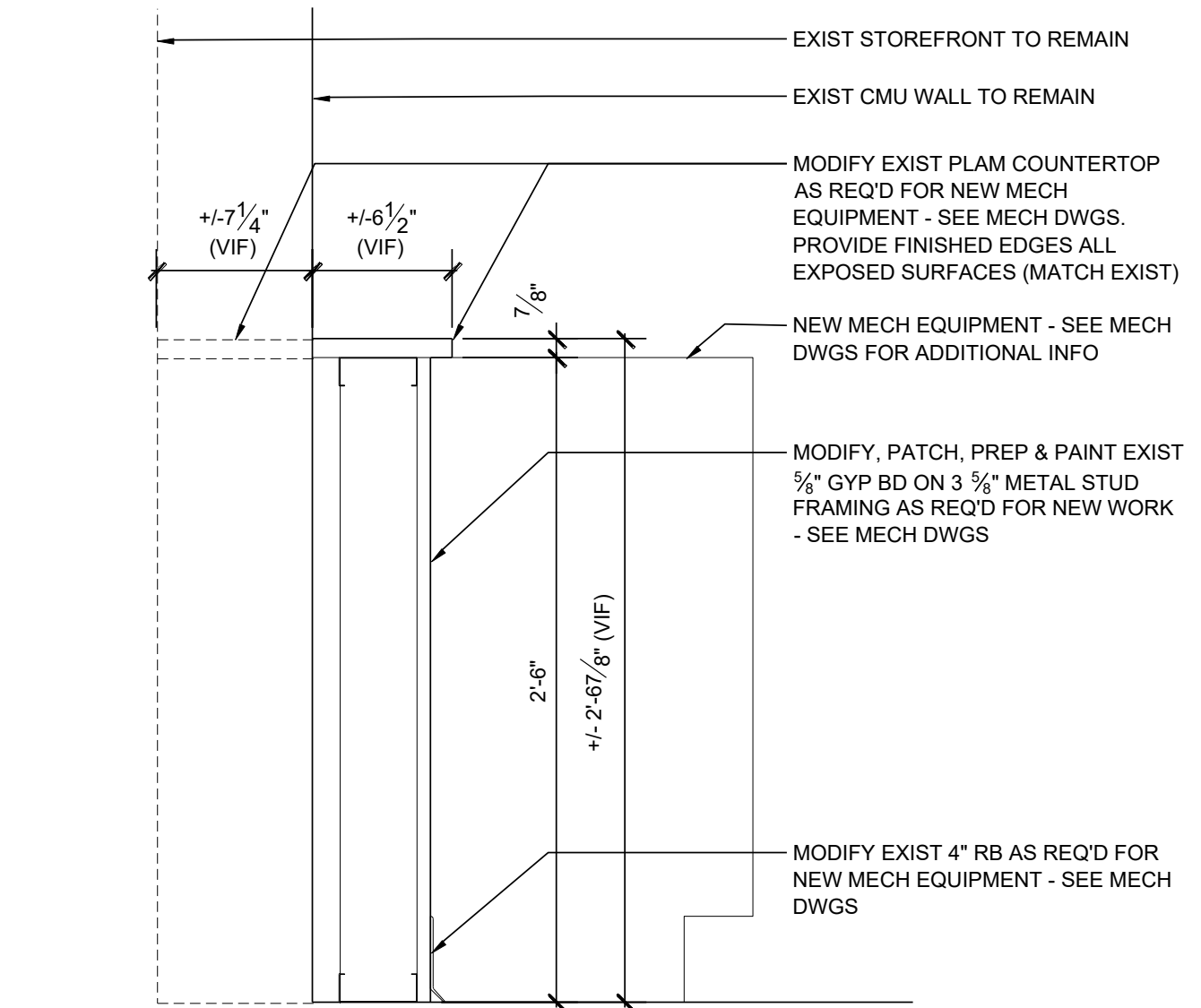
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JOB NO. 201879



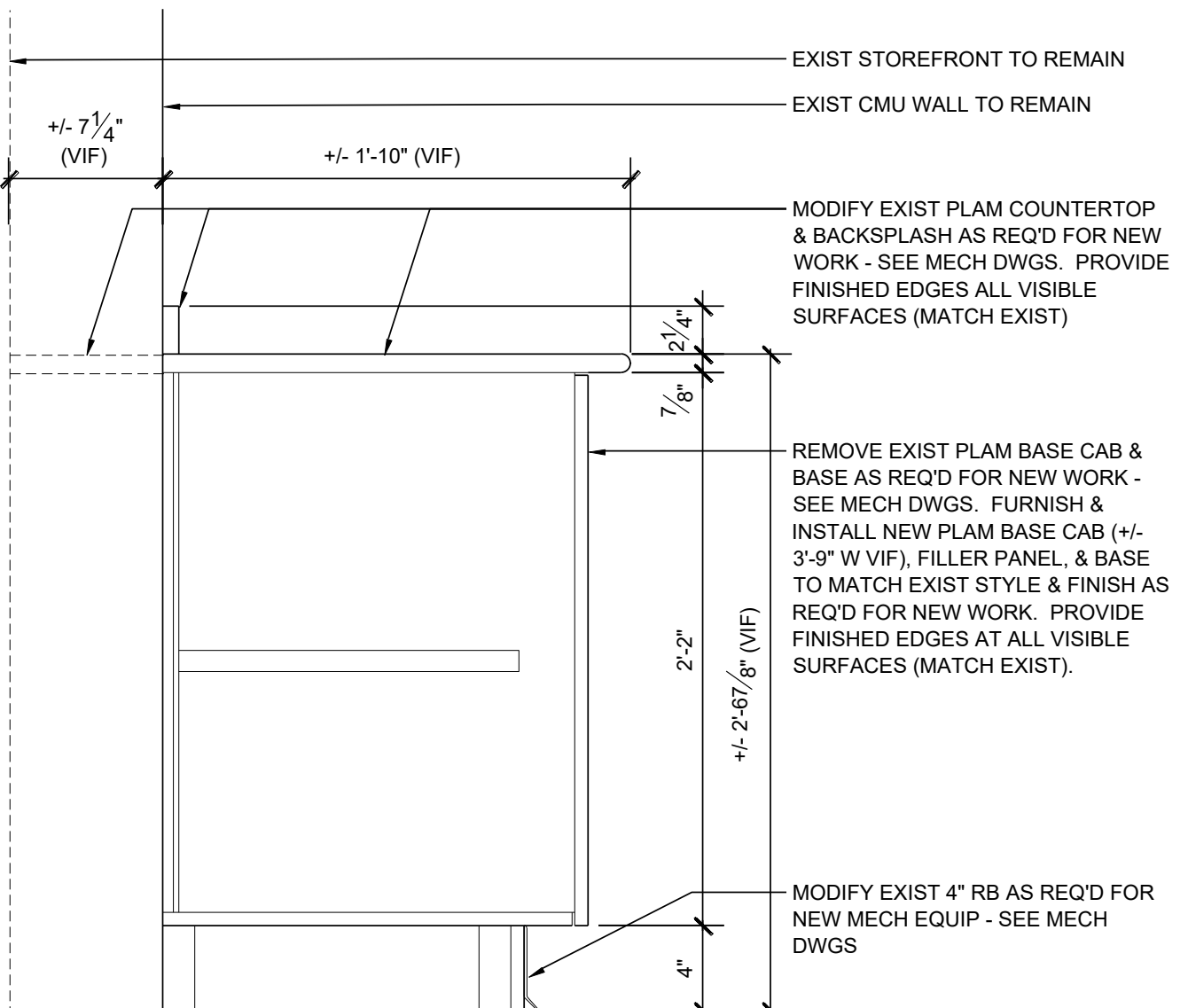
GENERAL NOTES:

- REFER TO SHEET G4.1 FOR TYPICAL NOTES, SYMBOLS, GENERAL INFORMATION, AND ABBREVIATIONS.
- REFER TO SHEET G4.2 FOR REFERENCED KEYNOTES.



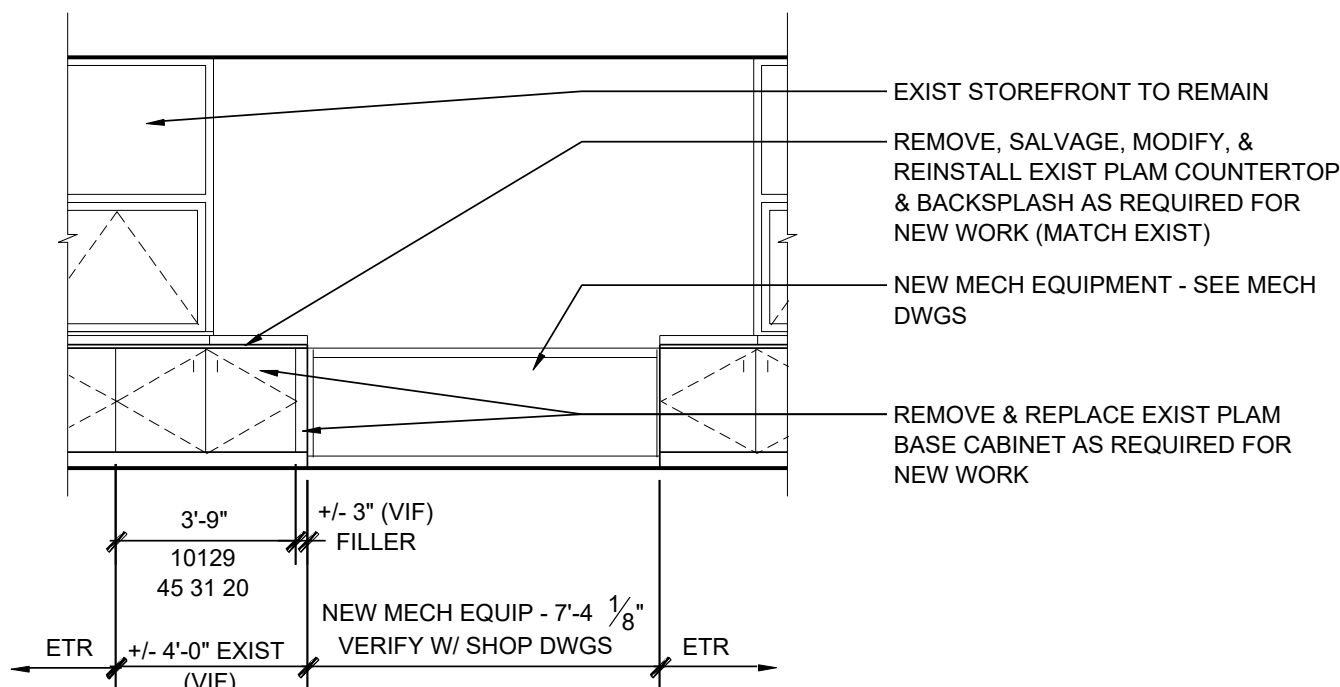
2 SECTION

A1.1FN SCALE: 1 1/2" = 1'-0"



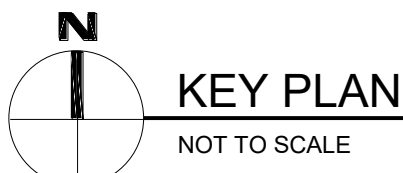
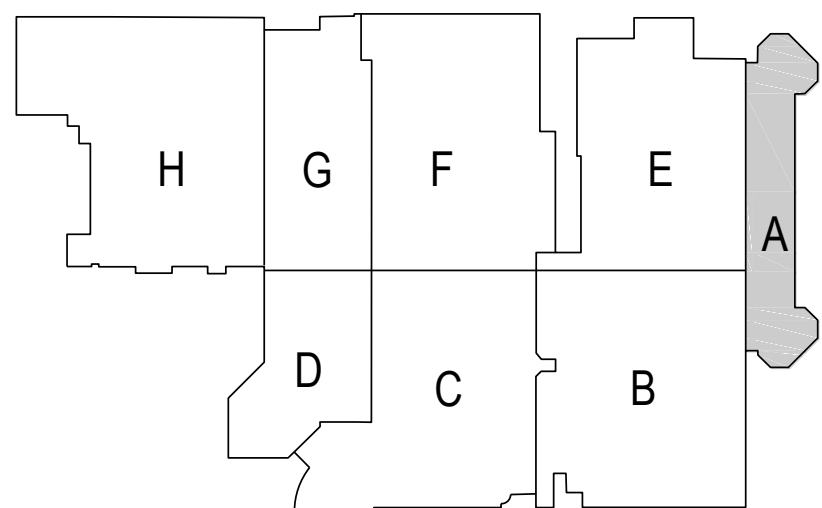
3 SECTION

A1.1FN SCALE: 1 1/2" = 1'-0"



4 INTERIOR ELEVATION

A1.1FN SCALE: 1/4" = 1'-0"



WA

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www.WakelyAIA.com

FARMINGTON PUBLIC SCHOOLS

SITE AND BUILDING IMPROVEMENTS TO
NORTH FARMINGTON HIGH SCHOOL

2020 BOND ISSUE - BID PACKAGE No. 8 - 2023 PROJECTS

NORTH FARMINGTON
HIGH SCHOOL

AREA "A"
NEW WORK FLOOR PLAN

PRELIMINARY

DESIGN DEVELOPMENT

CONSTRUCTION

FINAL RECORD

DRAWN BY JMS

CHECKED BY BJS

REVISIONS

ADD No 02 08-28-22

CONSTRUCTION 10-31-22

DATE: AUGUST 29, 2022

SHEET NO.

A1.1FN

JOB NO. 201879

FARMINGTON PUBLIC SCHOOLS
**SITE AND BUILDING IMPROVEMENTS TO
 NORTH FARMINGTON HIGH SCHOOL**
 2020 BOND ISSUE - BID PACKAGE No. 8 - 2023 PROJECTS

FARMINGTON NORTH
HIGH SCHOOL

AREA "B"
NEW WORK FLOOR PLAN

PRELIMINARY	☐
DESIGN DEVELOPMENT	☐
CONSTRUCTION	☒
FINAL RECORD	☐

DRAWN BY JMS
CHECKED BY BJS

REVISIONS	
ADD No 02	09-28-22
CONSTRUCTION	10-31-22

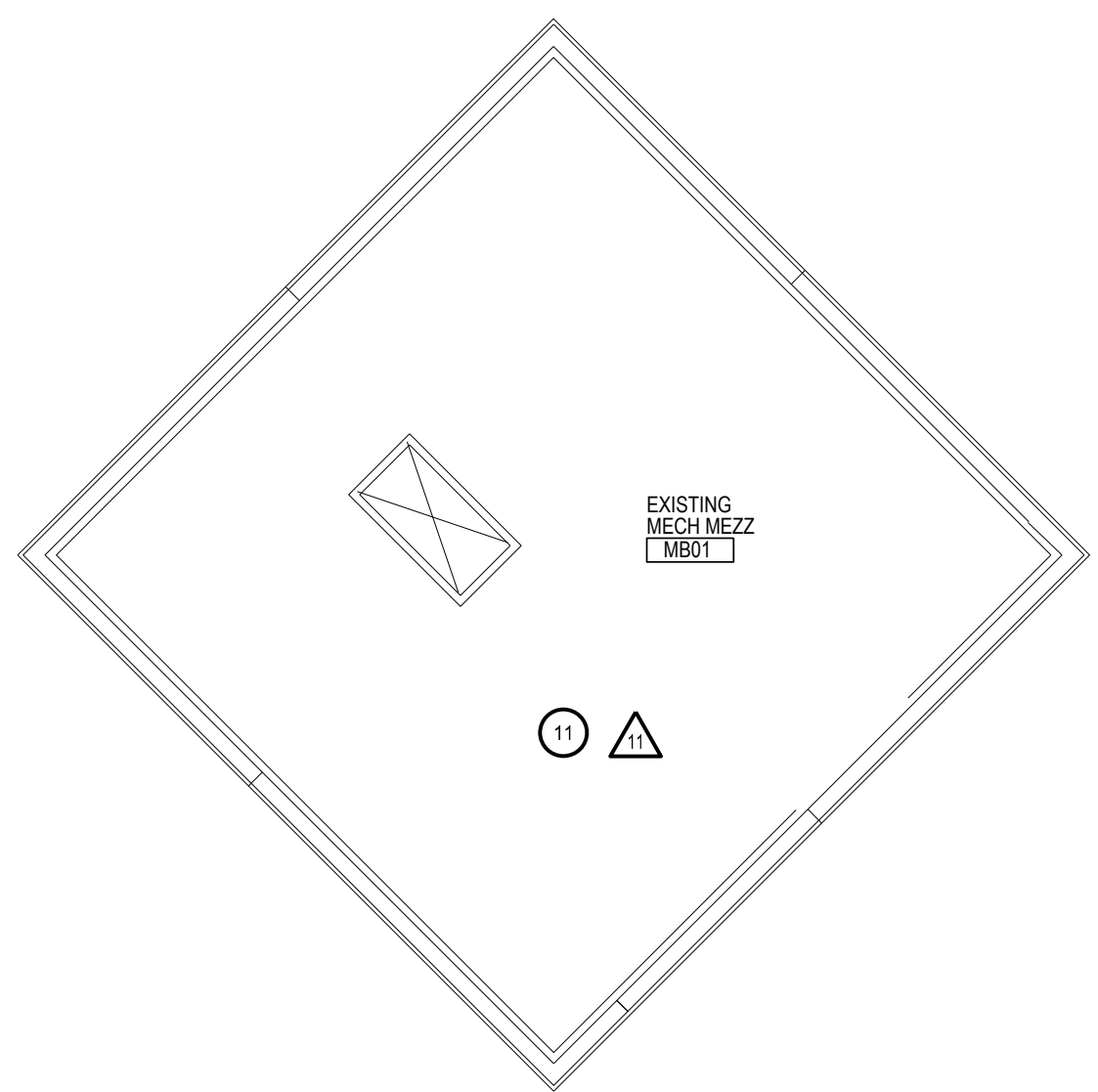
DATE: AUGUST 29, 2022
SHEET NO.

A1.2FN

JOB NO. 201879

GENERAL NOTES:

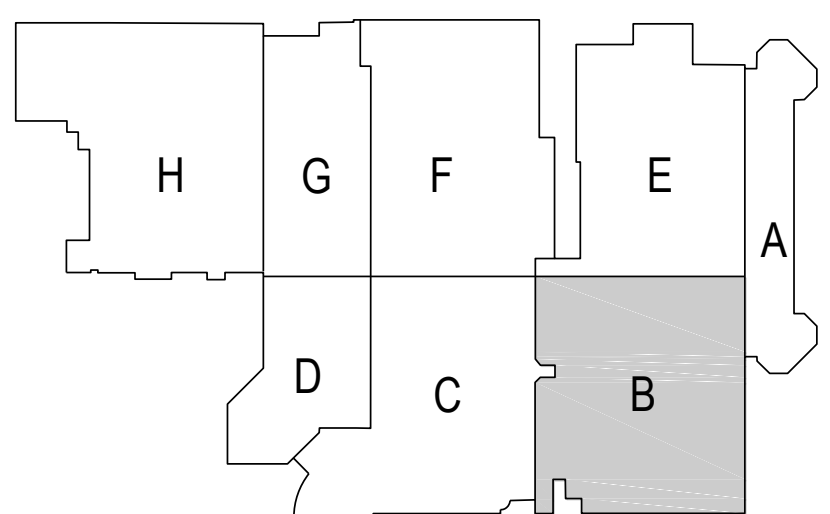
1. REFER TO SHEET G4.1 FOR TYPICAL NOTES, SYMBOLS, GENERAL INFORMATION, AND ABBREVIATIONS.
2. REFER TO SHEET G4.2 FOR REFERENCED KEYNOTES.



AREA "B" PARTIAL
MEZZANINE PLAN

2
A1.2FN

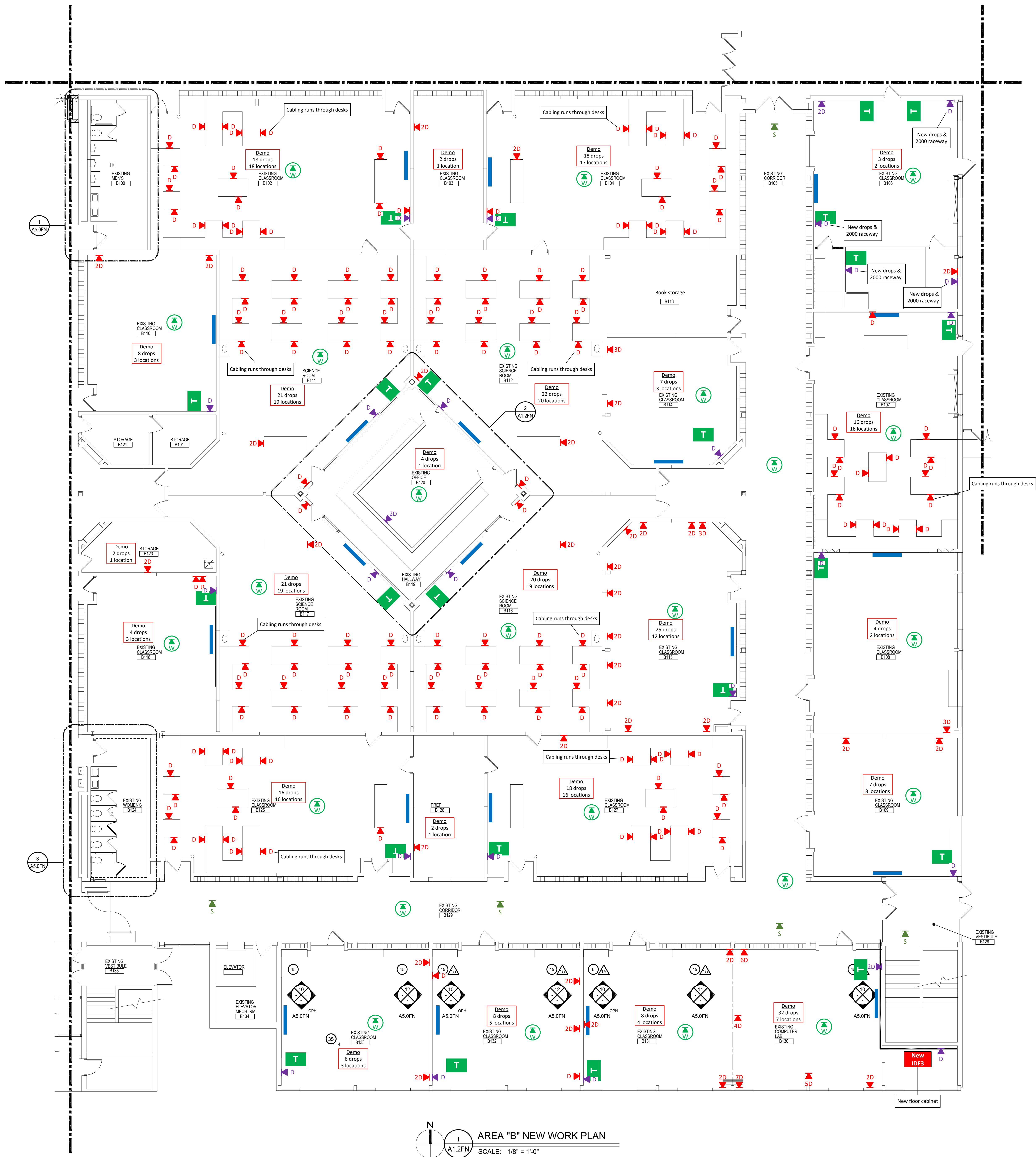
SCALE: 1/8" = 1'-0"



N

KEY PLAN

NOT TO SCALE





AREA "B" NEW WORK PLAN
 A1.2FN
 SCALE: 1/8" = 1'-0"



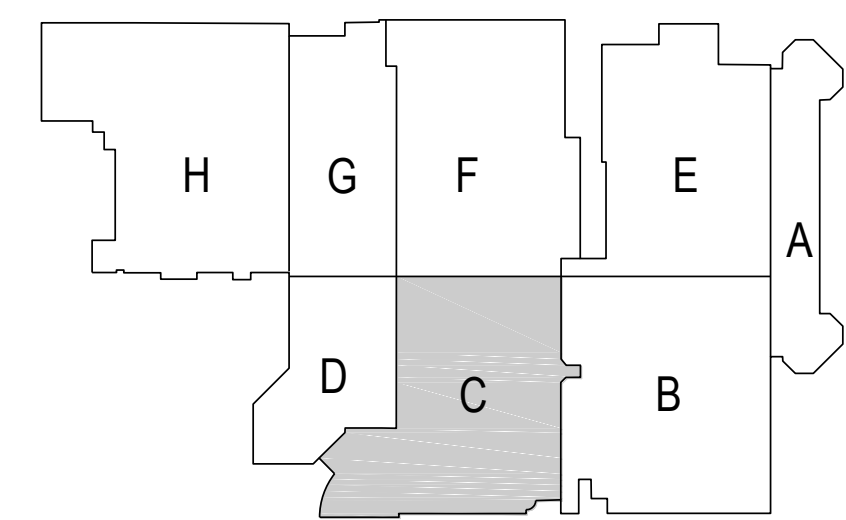
10 SECURITY DOOR SECTION
A1.3FN SCALE: 3/4" = 1'-0"

GENERAL NOTES:

- REFER TO SHEET G4.1 FOR TYPICAL NOTES, SYMBOLS, GENERAL INFORMATION, AND ABBREVIATIONS.
- REFER TO SHEET G4.2 FOR REFERENCED KEYNOTES.

2 ENLARGED PLAN
A1.3FN SCALE: 1/4" = 1'-0"

3 ENLARGED PLAN
A1.3FN SCALE: 1/4" = 1'-0"



KEY PLAN
NOT TO SCALE

1 AREA "C" NEW WORK PLAN
A1.3FN SCALE: 1/8" = 1'-0"

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FARMINGTON PUBLIC SCHOOLS
SITE AND BUILDING IMPROVEMENTS TO
NORTH FARMINGTON HIGH SCHOOL
2020 BOND ISSUE - BID PACKAGE No. 8 - 2023 PROJECTS

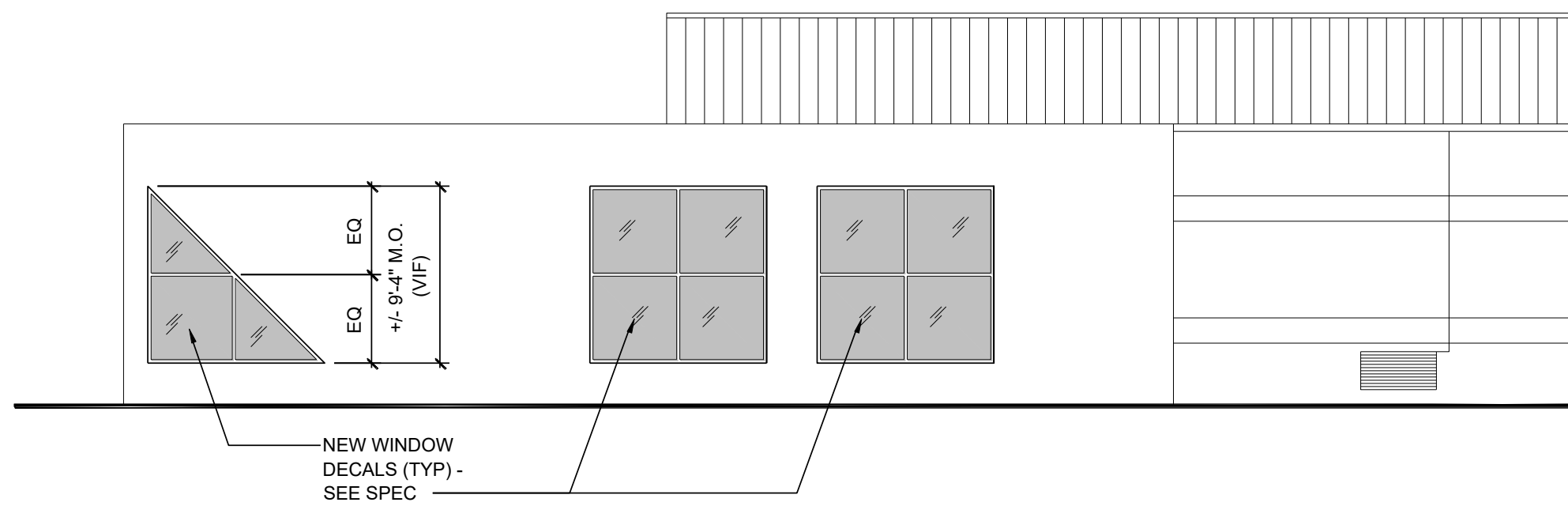
NORTH FARMINGTON
HIGH SCHOOL

AREA "C"
NEW WORK FLOOR PLAN

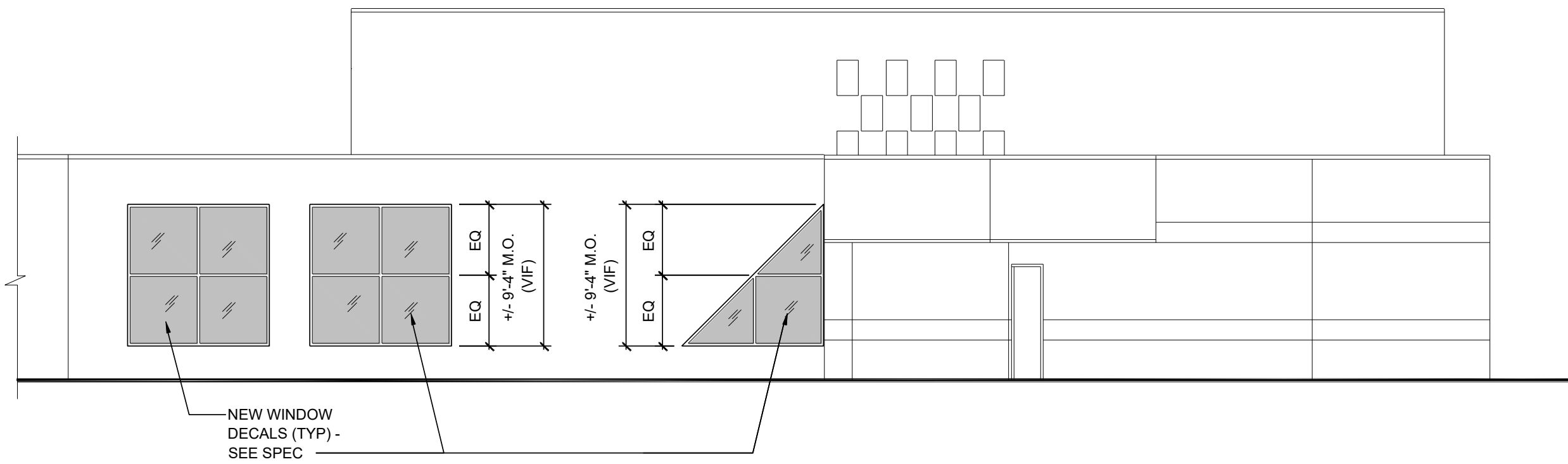
PRELIMINARY	☐
DESIGN DEVELOPMENT	☐
CONSTRUCTION	☒
FINAL RECORD	☐
DRAWN BY	JMS
CHECKED BY	BJS
REVISIONS	
CONSTRUCTION	10-31-22
DATE	AUGUST 29, 2022
SHEET NO.	

A1.3FN

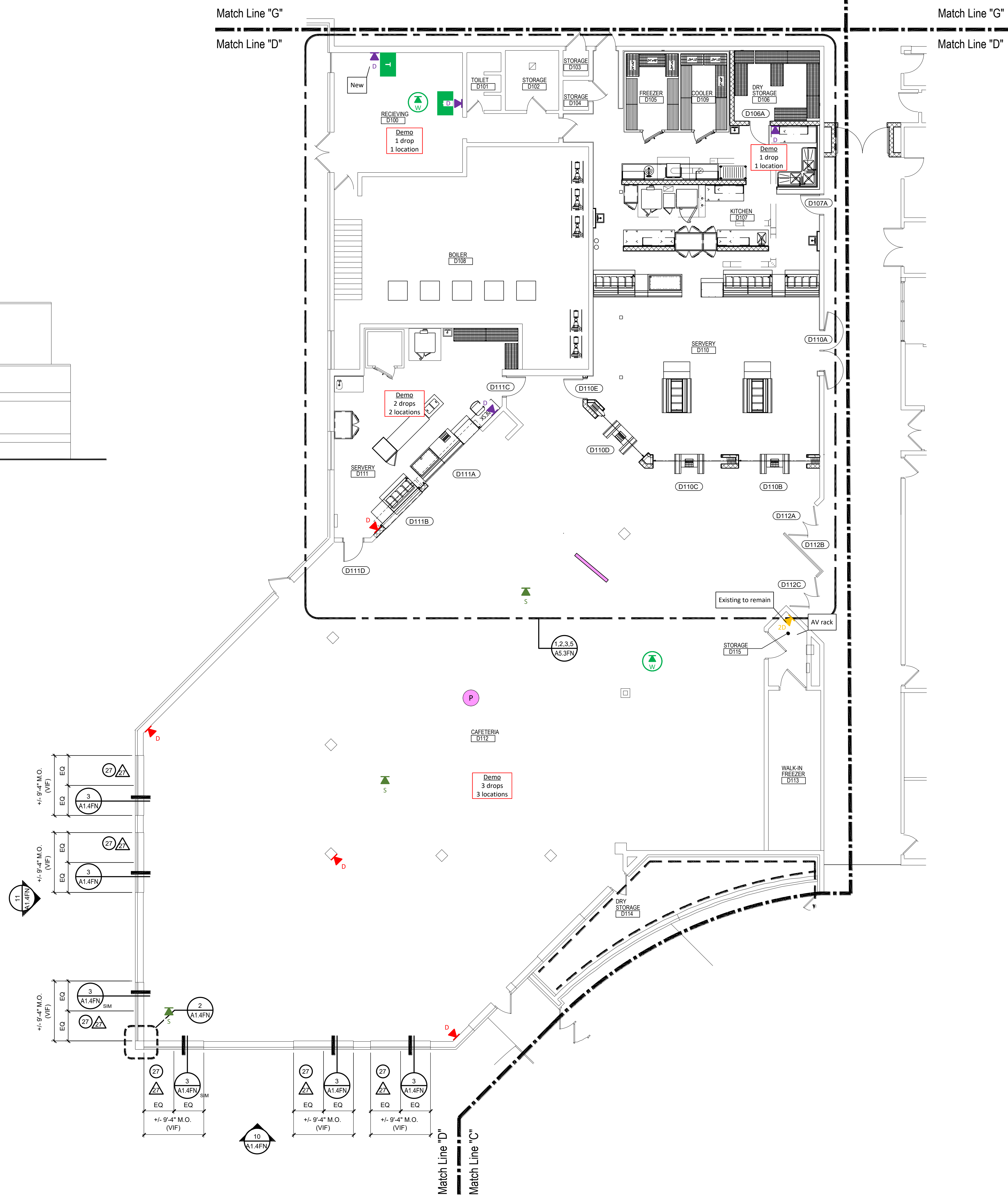
JOB NO.
201879



10 SOUTH ELEVATION
A1.4FN SCALE: 1/8" = 1'-0"



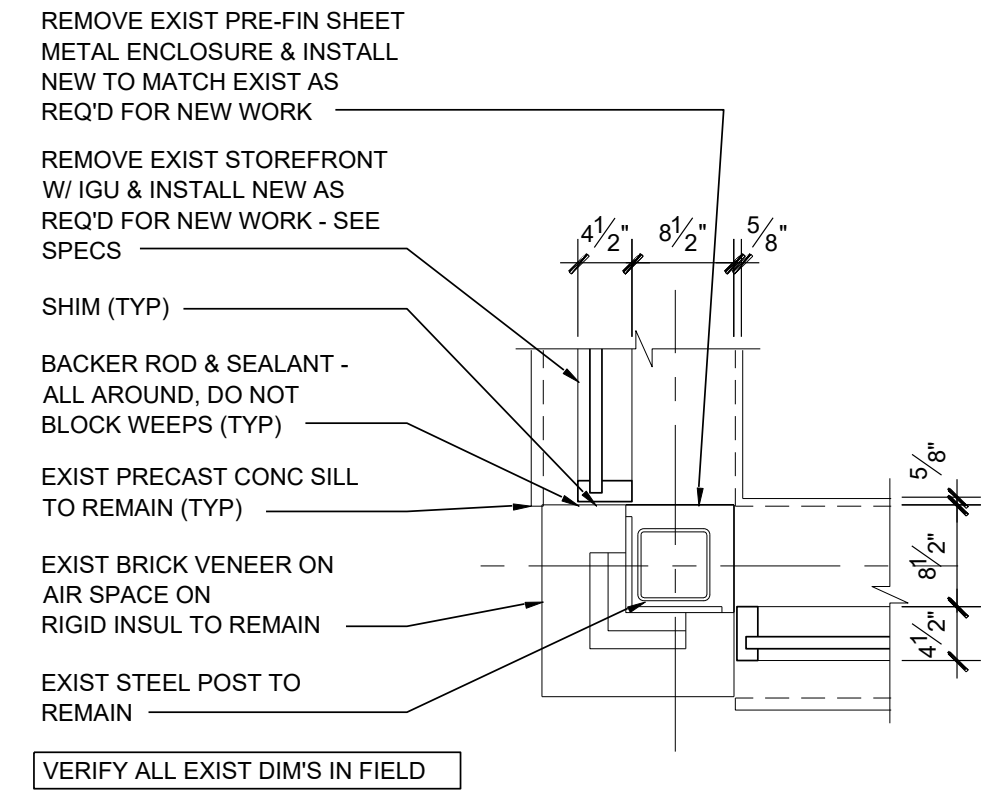
11 WEST ELEVATION
A1.4FN SCALE: 1/8" = 1'-0"



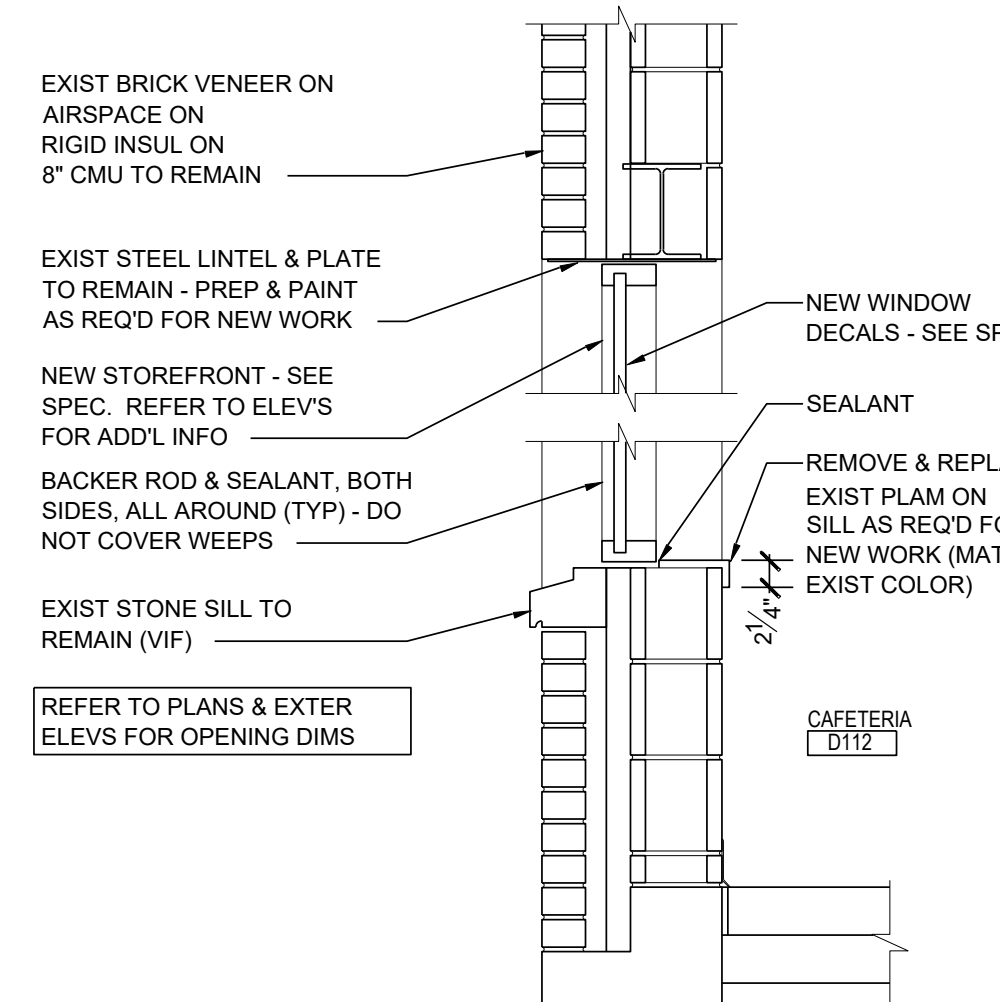
1 AREA "D" NEW WORK PLAN
A1.4FN SCALE: 1/8" = 1'-0"

GENERAL NOTES:

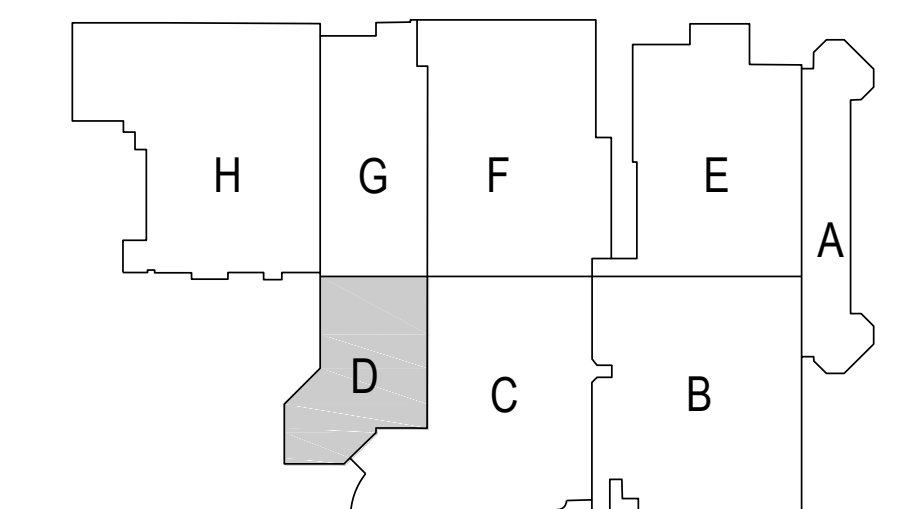
- REFER TO SHEET G4.1 FOR TYPICAL NOTES, SYMBOLS, GENERAL INFORMATION, AND ABBREVIATIONS.
- REFER TO SHEET G4.2 FOR REFERENCED KEYNOTES.



2 PLAN DETAIL
A1.4FN SCALE: 3/4" = 1'-0"



3 SECTION DETAIL
A1.4FN SCALE: 3/4" = 1'-0"



KEY PLAN
NOT TO SCALE



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2020 BOND ISSUE - BID PACKAGE No. 8 - 2023 PROJECTS

NORTH FARMINGTON
HIGH SCHOOL
AREA "D"
NEW WORK FLOOR PLAN

- PRELIMINARY ☐
DESIGN DEVELOPMENT ☐
CONSTRUCTION ☒
FINAL RECORD ☐

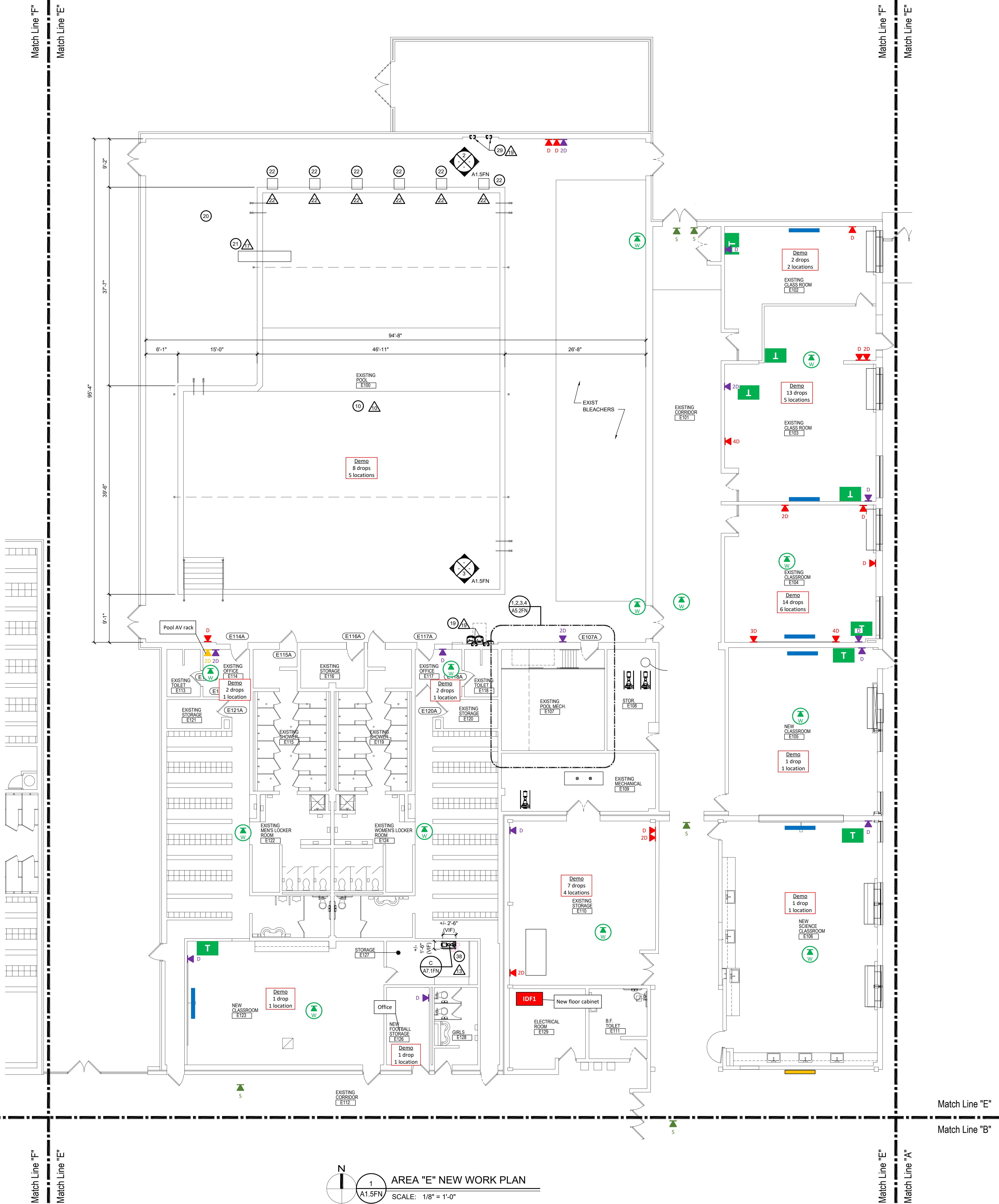
DRAWN BY JMS
CHECKED BY BJS

REVISIONS
CONSTRUCTION 10-31-22

DATE: AUGUST 29, 2022
SHEET NO.

A1.4FN

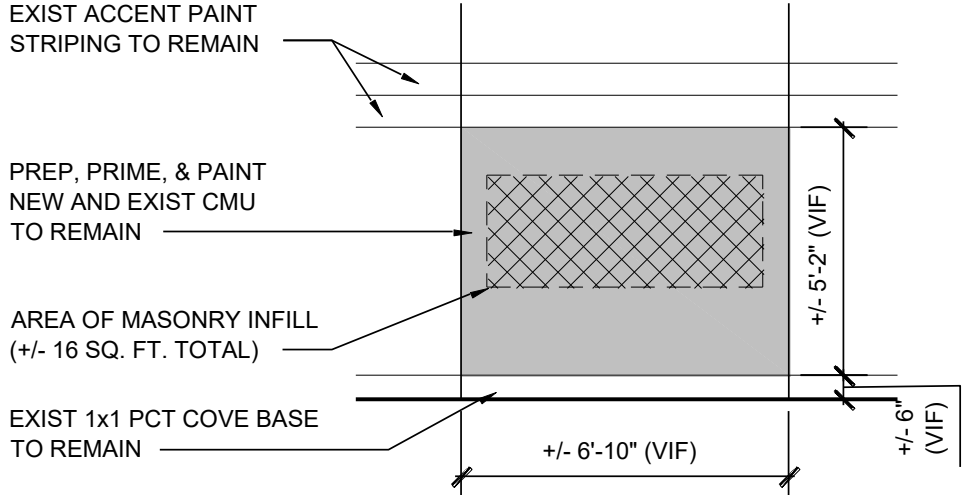
JOB NO.
201879



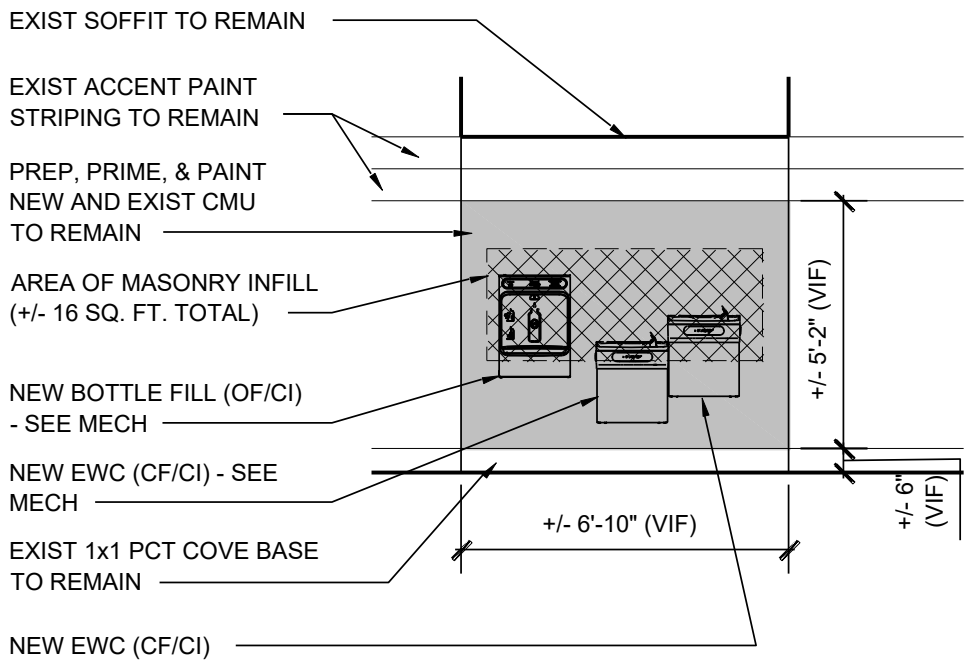
1
A1.5FN
AREA "E" NEW WORK PLAN
SCALE: 1/8" = 1'-0"

GENERAL NOTES:

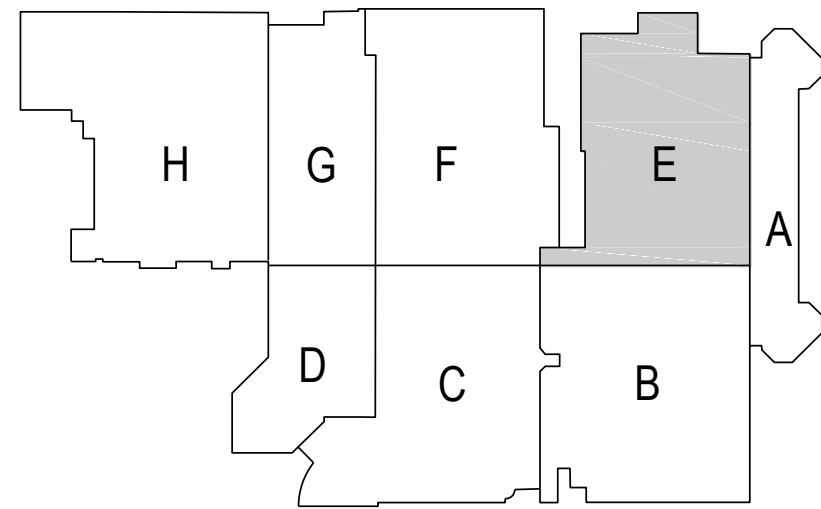
1. REFER TO SHEET G4.1 FOR TYPICAL NOTES, SYMBOLS, GENERAL INFORMATION, AND ABBREVIATIONS.
2. REFER TO SHEET G4.2 FOR REFERENCED KEYNOTES.



2
A1.5FN
INTERIOR ELEVATION
SCALE: 1/4" = 1'-0"



3
A1.5FN
INTERIOR ELEVATION
SCALE: 1/4" = 1'-0"



KEY PLAN
NOT TO SCALE

FARMINGTON PUBLIC SCHOOLS
SITE AND BUILDING IMPROVEMENTS TO
NORTH FARMINGTON HIGH SCHOOL
2020 BOND ISSUE - BID PACKAGE No. 8 - 2023 PROJECTS

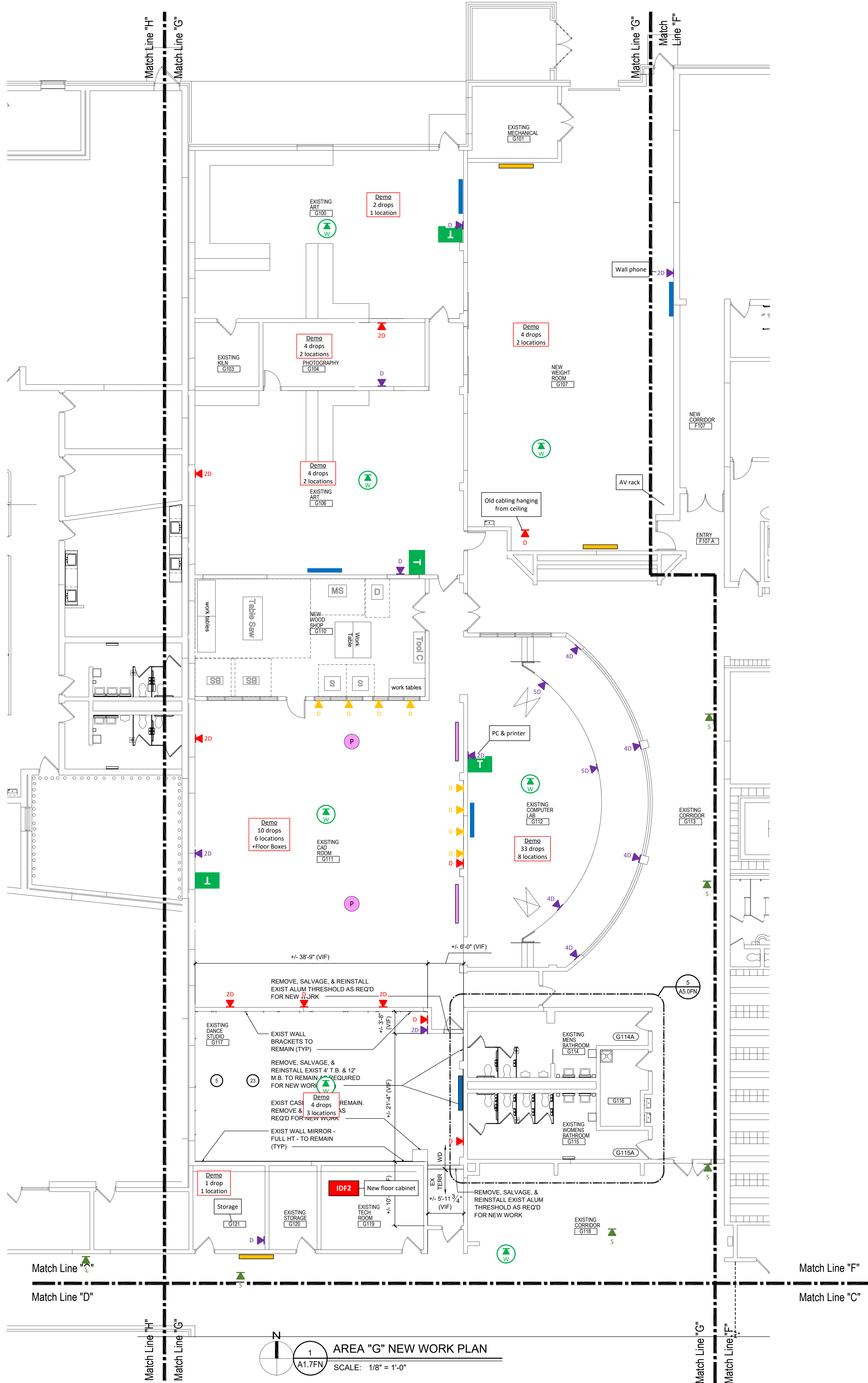
NORTH FARMINGTON
HIGH SCHOOL
AREA "E"
NEW WORK FLOOR PLAN

PRELIMINARY	☐
DESIGN DEVELOPMENT	☐
CONSTRUCTION	☒
FINAL RECORD	☐
DRAWN BY	JMS
CHECKED BY	BJJ
REVISIONS	
ADD No 02	08-28-22
CONSTRUCTION	10-31-22

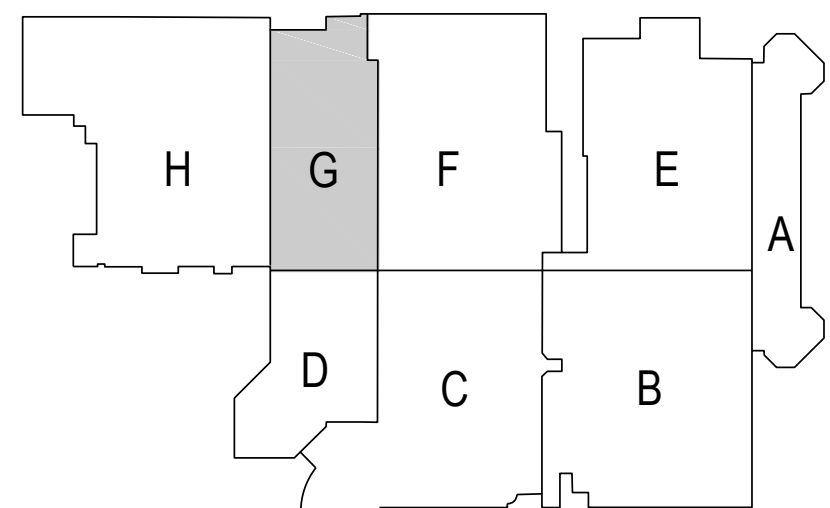
DATE: AUGUST 29, 2022
SHEET NO.

A1.5FN

JOB NO.
201879



- GENERAL NOTES:
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 2. REFER TO SHEET G4.2 FOR REFERENCED KEYNOTES.



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FARMINGTON PUBLIC SCHOOLS

NORTH FARMINGTON HIGH SCHOOL

2020 BOND ISSUE - BID PACKAGE No. 8 - 2023 PROJECTS

NORTH FARMINGTON HIGH SCHOOL

AREA "G"
NEW WORK FLOOR PLAN

PRELIMINARY

DESIGN DEVELOPMENT

CONSTRUCTION

FINAL RECORD

DRAWN BY JMS

CHECKED BY BUS

REVISIONS

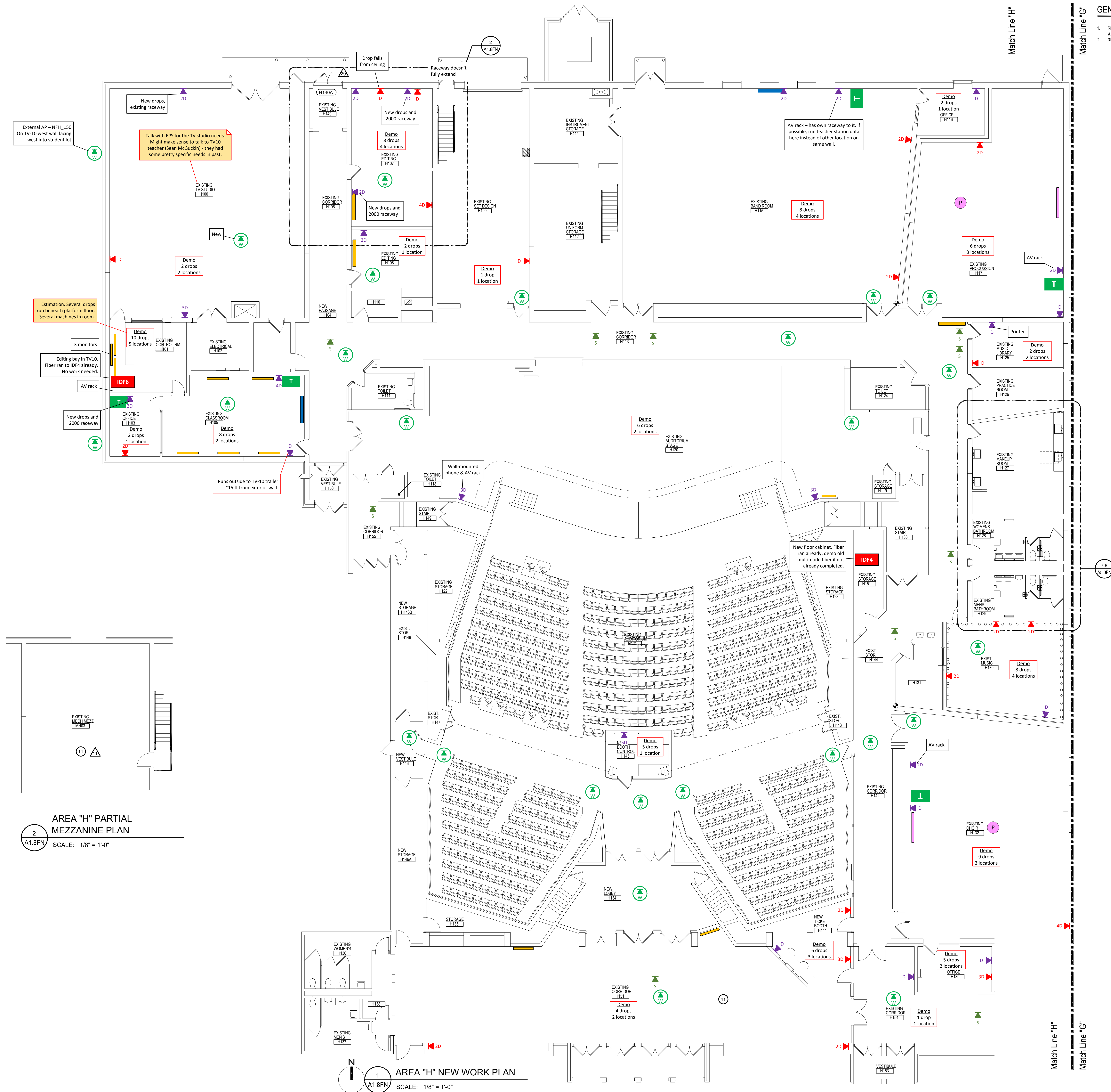
CONSTRUCTION 10-31-22

DATE: AUGUST 29, 2022

SHEET NO.

A1.7FN

JOB NO. 201879



GENERAL NOTES:

- REFER TO SHEET G4.1 FOR TYPICAL NOTES, SYMBOLS, GENERAL INFORMATION, AND ABBREVIATIONS.
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2020 BOND ISSUE - BID PACKAGE No. 8 - 2023 PROJECTS

NORTH FARMINGTON
HIGH SCHOOL

AREA "H"
NEW WORK FLOOR PLAN

PRELIMINARY

DESIGN DEVELOPMENT

CONSTRUCTION

FINAL RECORD

DRAWN BY JMS

CHECKED BY BUS

REVISIONS

ADD No 02 08-28-22

CONSTRUCTION 10-31-22

DATE: AUGUST 29, 2022

SHEET NO.

A1.8FN

JOB NO. 201879

FARMINGTON PUBLIC SCHOOLS
**SITE AND BUILDING IMPROVEMENTS TO
 NORTH FARMINGTON HIGH SCHOOL**
 2020 BOND ISSUE - BID PACKAGE No. 8 - 2023 PROJECTS

NORTH FARMINGTON
HIGH SCHOOL

AREA "J" SECOND FLOOR
NEW WORK FLOOR PLAN

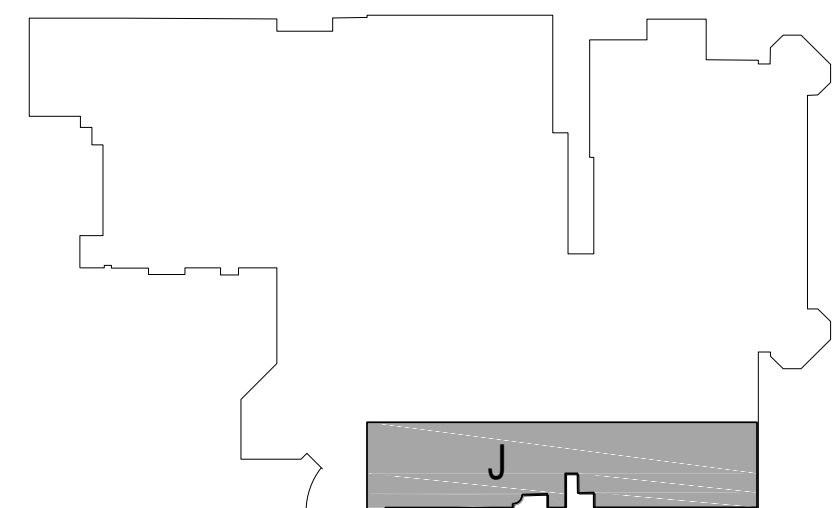
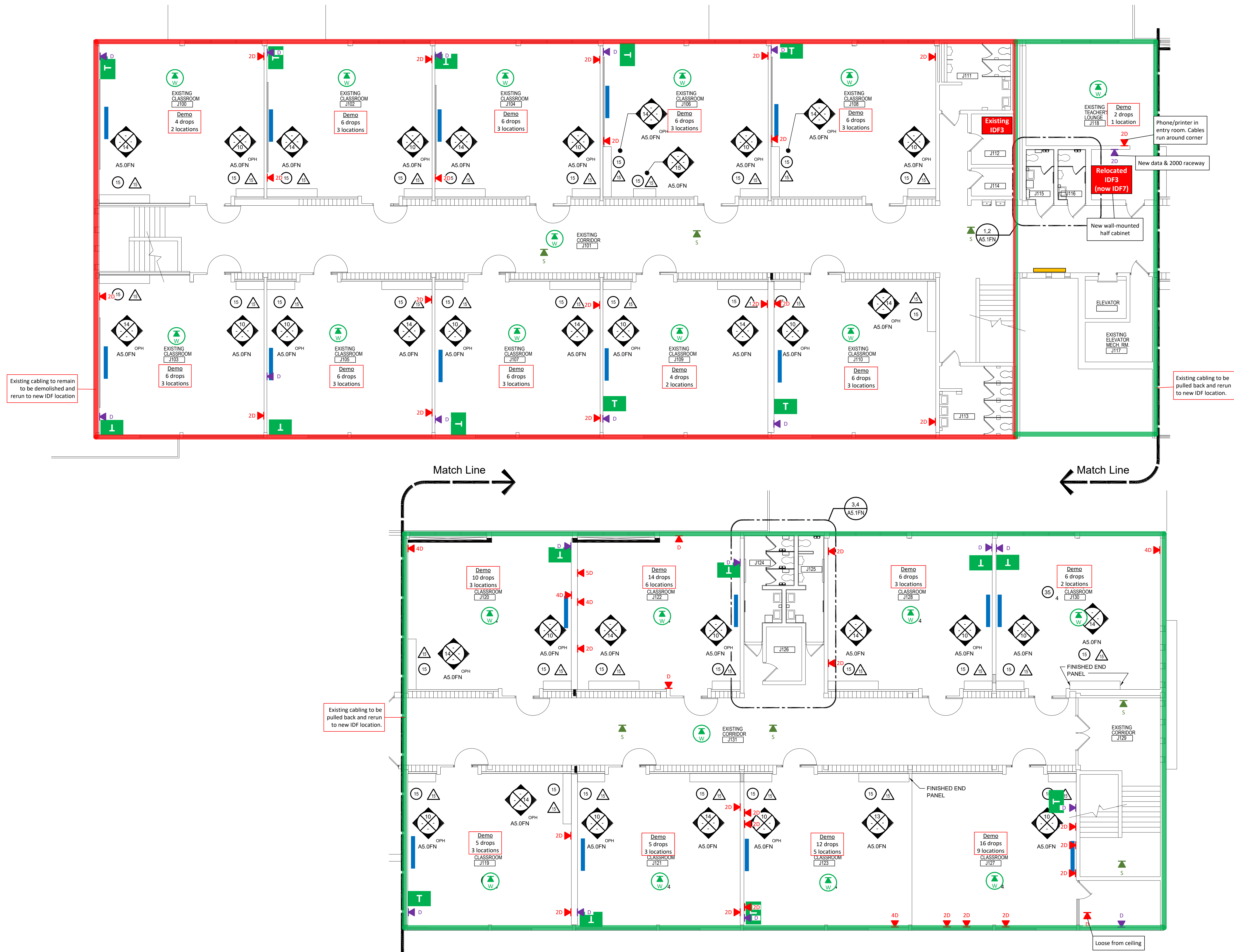
PRELIMINARY	☐
DESIGN DEVELOPMENT	☐
CONSTRUCTION	☒
FINAL RECORD	☐
DRAWN BY	JMS
CHECKED BY	BJS
REVISIONS	
ADD NO 02	09-28-22
CONSTRUCTION	10-31-22

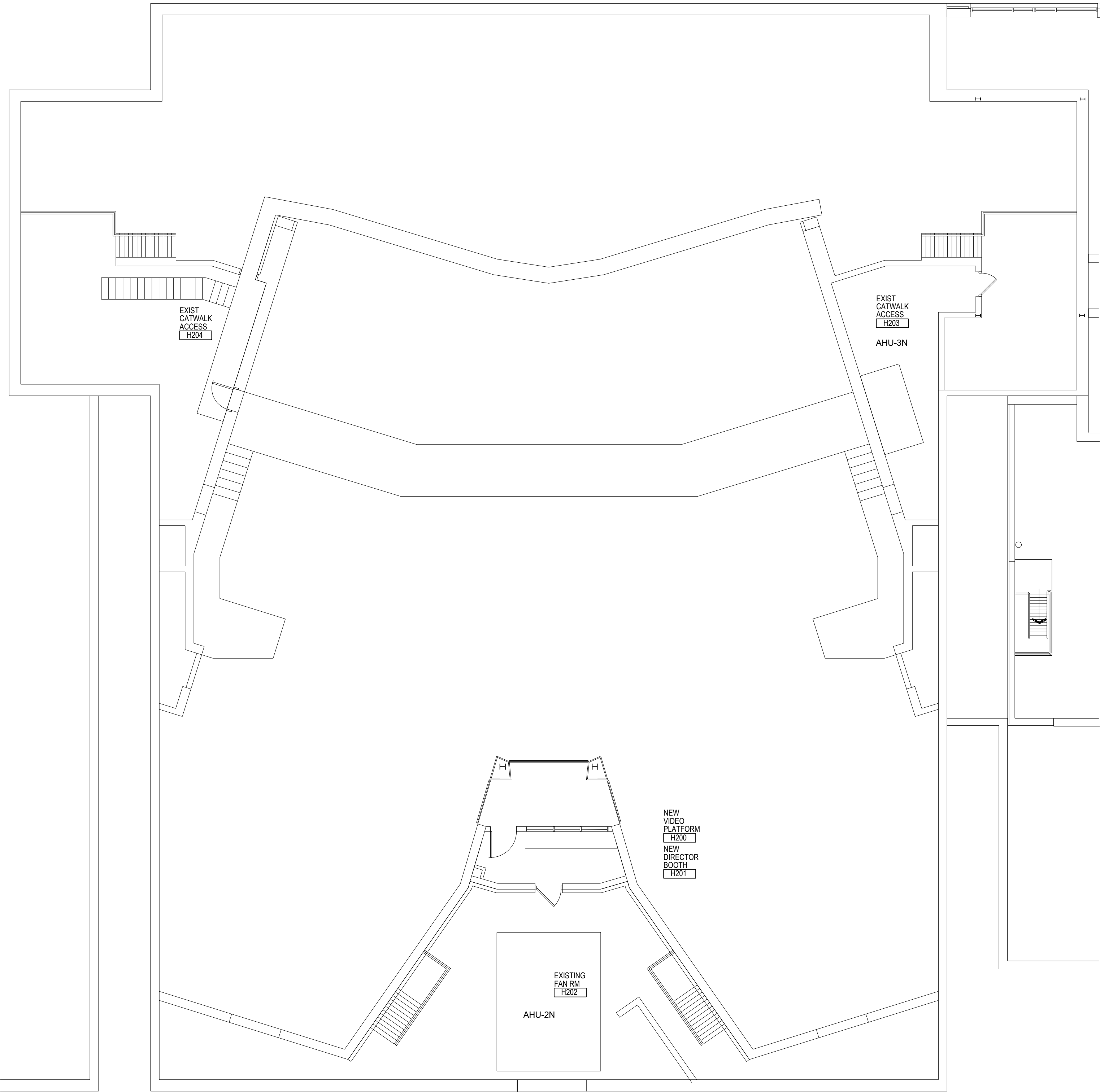
DATE: AUGUST 29, 2022
SHEET NO.

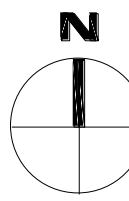
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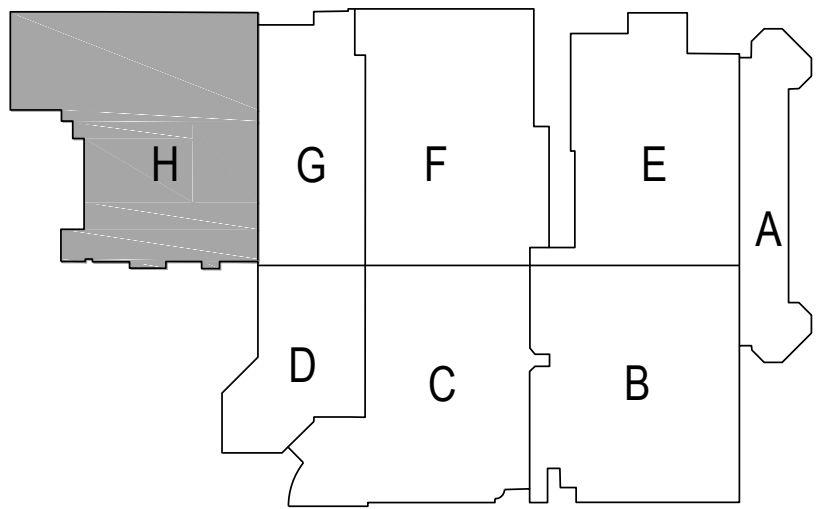
JOB NO. 201879

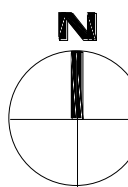
1. REFER TO SHEET G4.1 FOR TYPICAL NOTES, SYMBOLS, GENERAL INFORMATION, AND ABBREVIATIONS.
2. REFER TO SHEET G4.2 FOR REFERENCED KEYNOTES.





 **2** PARTIAL FLOOR PLAN
MEZZANINE - AREA 'H'
A1.10FN SCALE: 1/8" = 1'-0"



 **KEY PLAN**
NOT TO SCALE

GENERAL NOTES:

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FARMINGTON PUBLIC SCHOOLS
SITE AND BUILDING IMPROVEMENTS TO
NORTH FARMINGTON HIGH SCHOOL
2020 BOND ISSUE - BID PACKAGE No. 8 - 2023 PROJECTS

FARMINGTON HIGH SCHOOL

AREA 'H' SECOND FLOOR
NEW WORK FLOOR PLAN

PRELIMINARY ☐
DESIGN DEVELOPMENT ☐
CONSTRUCTION ☒
FINAL RECORD ☐

DRAWN BY JMS
CHECKED BY BJS

REVISIONS
CONSTRUCTION 10-31-22

DATE: AUGUST 29, 2022
SHEET NO.

A1.10FN

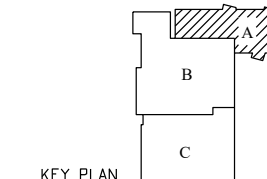
JOB NO. 201879

A horizontal scale bar with a double-headed arrow at the left end and a vertical tick mark at the right end. The text "1\" is centered above the bar. Below the bar, there are 16 vertical tick marks of equal length, dividing the bar into 16 equal segments.

WAKELY ASSOCIATES, INC.
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Tel: 248-879-5666
Fax: 248-879-0007
www.PeterBassoAssociates.com
PBA Project No.: 2020.0269

FIRST FLOOR POWER AND
AUXILIARY NEW WORK FOR
AREA 'A'



PRELIMINARY	☐
DESIGN DEVELOPMENT	☐
CONSTRUCTION	☒
FINAL RECORD	☐

DRAWN BY:
CHECKED BY:

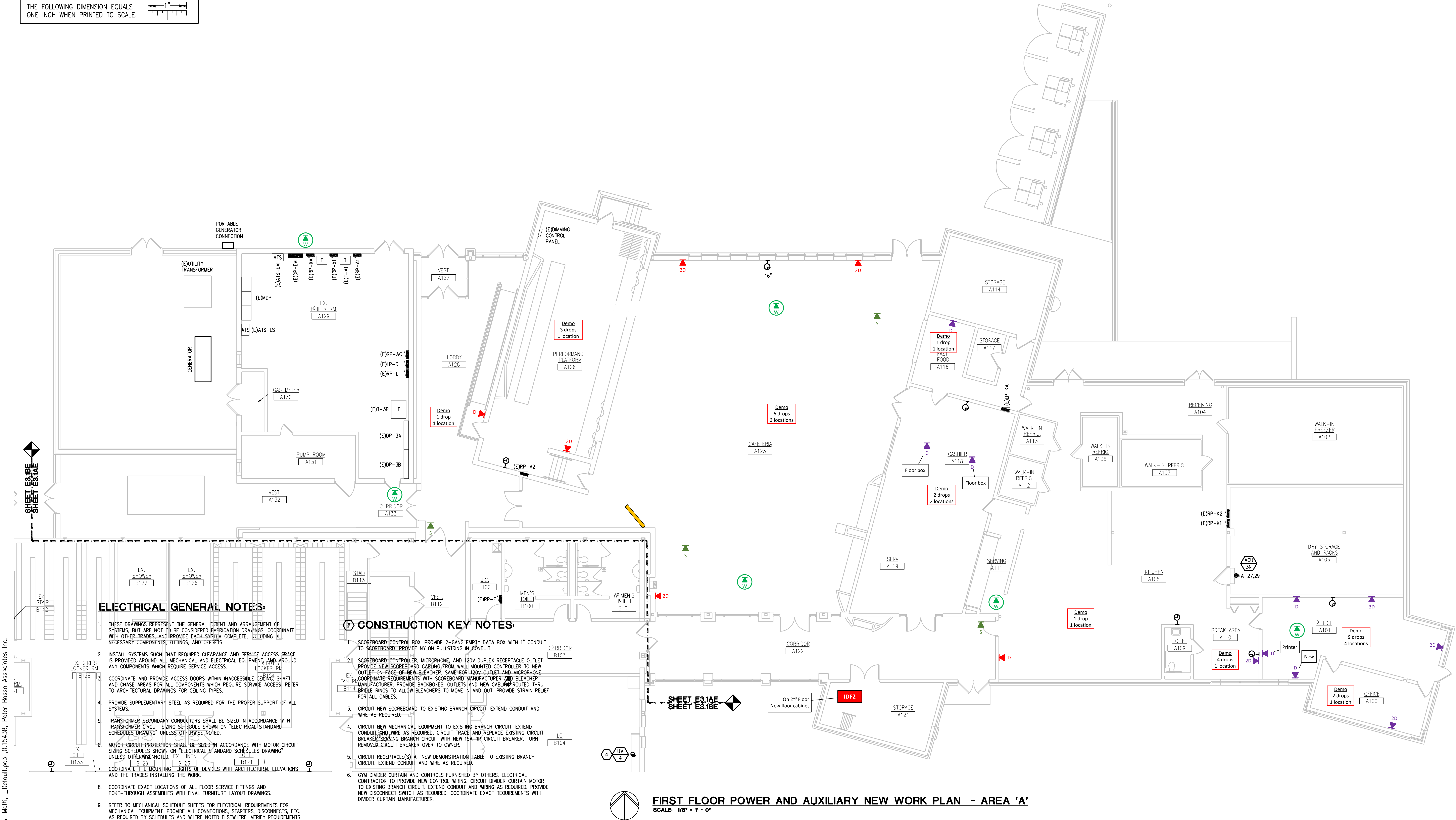
REVISIONS:	
CONSTRUCTION	2-3

DATE: DECEMBER 3, 2011

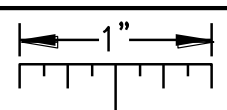
SHEET NO.:

E3.1AE

IOBNO: 201879



THE FOLLOWING DIMENSION EQUALS ONE INCH WHEN PRINTED TO SCALE.



ELECTRICAL GENERAL NOTES:

- THESE DRAWINGS REPRESENT THE GENERAL EXTENT AND ARRANGEMENT OF SYSTEMS, BUT ARE NOT TO BE CONSIDERED FABRICATION DRAWINGS. COORDINATE WITH OTHER TRADES, AND PROVIDE EACH SYSTEM COMPLETE, INCLUDING ALL NECESSARY COMPONENTS, FITTINGS, AND OFFSETS.
- INSTALL SYSTEMS SUCH THAT REQUIRED CLEARANCE AND SERVICE ACCESS SPACE IS PROVIDED AROUND ALL MECHANICAL AND ELECTRICAL EQUIPMENT, AND AROUND ANY COMPONENTS WHICH REQUIRE SERVICE ACCESS.
- COORDINATE AND PROVIDE ACCESS DOORS WITHIN INACCESSIBLE CEILING, SHAFT, AND CHASE AREAS FOR ALL COMPONENTS WHICH REQUIRE SERVICE ACCESS. REFER TO ARCHITECTURAL DRAWINGS FOR CEILING TYPES.
- PROVIDE SUPPLEMENTARY STEEL AS REQUIRED FOR THE PROPER SUPPORT OF ALL SYSTEMS.
- TRANSFORMER SECONDARY CONDUCTORS SHALL BE SIZED IN ACCORDANCE WITH TRANSFORMER CIRCUIT SIZING SCHEDULE SHOWN ON "ELECTRICAL STANDARD SCHEDULES DRAWING" UNLESS OTHERWISE NOTED.
- MOTOR CIRCUIT PROTECTION SHALL BE SIZED IN ACCORDANCE WITH MOTOR CIRCUIT SIZING SCHEDULES SHOWN ON "ELECTRICAL STANDARD SCHEDULES DRAWING" UNLESS OTHERWISE NOTED.
- COORDINATE THE MOUNTING HEIGHTS OF DEVICES WITH ARCHITECTURAL ELEVATIONS AND THE TRADES INSTALLING THE WORK.
- COORDINATE EXACT LOCATIONS OF ALL FLOOR SERVICE FITTINGS AND POKE-THROUGH ASSEMBLIES WITH FINAL FURNITURE LAYOUT DRAWINGS.
- REFER TO MECHANICAL SCHEDULE SHEETS FOR ELECTRICAL REQUIREMENTS FOR MECHANICAL EQUIPMENT. PROVIDE ALL CONNECTIONS, STARTERS, DISCONNECTS, ETC. AS REQUIRED BY SCHEDULES AND WHERE NOTED ELSEWHERE. VERIFY REQUIREMENTS OF ALL MECHANICAL EQUIPMENT WITH SHOP DRAWINGS SUBMITTALS. NOTIFY ENGINEER OF ANY CONFLICTS BETWEEN EQUIPMENT SUBMITTALS AND ELECTRICAL DRAWINGS. WHERE CIRCUIT SIZES ARE SHOWN ON THE ELECTRICAL DRAWINGS THAT DIFFER FROM WHAT IS INDICATED ON THE MECHANICAL SCHEDULES, PROVIDE THE CIRCUIT OF HIGHER AMPACITY.
- REFER TO TEMPERATURE CONTROLS SHEETS FOR REQUIRED FIRE ALARM CONTROL MODULES, DUCT SMOKE DETECTORS, AND MOTOR CONTROLLERS. PROVIDE ALL ACCESSORIES INDICATED.
- REFER TO LIGHTING CONTROL SCHEDULE FOR ROOM CONTROL AND EMERGENCY LIGHTING CIRCUIT CONTROL REQUIREMENTS. DESIGNATION FOR ROOM IS INDICATED AS A LETTERED OVAL SYMBOL.
- ALL FIRE ALARM DEVICES SHALL BE COMPATIBLE WITH EXISTING NATIONAL TIME AND SIGNAL FIRE ALARM SYSTEM. PROVIDE NECESSARY COMPONENTS, MODULES, ETC. AS REQUIRED FOR A FULLY FUNCTIONAL SYSTEM. RE-TEST AND CERTIFY EXISTING FIRE ALARM SYSTEM AT COMPLETION OF PROJECT.
- UNLESS INDICATED OTHERWISE CIRCUIT NEW LIGHT FIXTURES TO EXISTING LIGHTING BRANCH CIRCUIT SERVING SPACE VIA NEW CONTROLS AS INDICATED. PROVIDE NEW 0-10V CABLING AS REQUIRED FOR DIMMING. COORDINATE CABLING REQUIREMENTS WITH LIGHT FIXTURE AND CONTROLS MANUFACTURER.
- INCLUDE IN BID PRICE \$20,000 ALLOWANCE TO RE-CIRCUIT FIRST FLOOR UNIT VENTILATORS FROM OVERHEAD AS REQUIRED. RE-CIRCUITING SHALL BE APPROVED ON SITE BY CONSTRUCTION MANAGER PRIOR TO COMMENCEMENT OF WORK.

CONSTRUCTION KEY NOTES:

- SCOREBOARD CONTROL BOX. PROVIDE 2-GANG EMPTY DATA BOX WITH 1" CONDUIT TO SCOREBOARD. PROVIDE NYLON PULLSTRING IN CONDUIT.
- SCOREBOARD CONTROLLER, MICROPHONE, AND 120V DUPLEX RECEPTACLE OUTLET. PROVIDE NEW SCOREBOARD CABLING FROM WALL MOUNTED CONTROLLER TO NEW OUTLET ON FACE OF NEW BLEACHER. SAME FOR 120V OUTLET AND MICROPHONE. COORDINATE REQUIREMENTS WITH SCOREBOARD MANUFACTURER AND BLEACHER MANUFACTURER. PROVIDE BACKBOXES, OUTLETS AND NEW CABLING ROUTED THRU BRIDLE RINGS TO ALLOW BLEACHERS TO MOVE IN AND OUT. PROVIDE STRAIN RELIEF FOR ALL CABLES.
- CIRCUIT NEW SCOREBOARD TO EXISTING BRANCH CIRCUIT. EXTEND CONDUIT AND WIRE AS REQUIRED.
- CIRCUIT NEW MECHANICAL EQUIPMENT TO EXISTING BRANCH CIRCUIT. EXTEND CONDUIT AND WIRE AS REQUIRED. CIRCUIT TRACE AND REPLACE EXISTING CIRCUIT BREAKER SERVING BRANCH CIRCUIT WITH NEW 15A-1P CIRCUIT BREAKER. TURN REMOVED CIRCUIT BREAKER OVER TO OWNER.
- CIRCUIT RECEPTACLE(S) AT NEW DEMONSTRATION TABLE TO EXISTING BRANCH CIRCUIT. EXTEND CONDUIT AND WIRE AS REQUIRED.
- GYM DIVIDER CURTAIN AND CONTROLS FURNISHED BY OTHERS. ELECTRICAL CONTRACTOR TO PROVIDE NEW CONTROL WIRING. CIRCUIT DIVIDER CURTAIN MOTOR TO EXISTING BRANCH CIRCUIT. EXTEND CONDUIT AND WIRING AS REQUIRED. PROVIDE NEW DISCONNECT SWITCH AS REQUIRED. COORDINATE EXACT REQUIREMENTS WITH DIVIDER CURTAIN MANUFACTURER.

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pba@verizon.net 2489084

FARMINGTON PUBLIC SCHOOLS
SITE AND BUILDING IMPROVEMENTS TO
EAST MIDDLE SCHOOL
2020 BOND ISSUE - BID PACKAGE No. 1 - 2021 PROJECTS

FIRST FLOOR POWER AND
AUXILIARY NEW WORK PLAN -
AREA 'B'

PRELIMINARY

DESIGN DEVELOPMENT

CONSTRUCTION

FINAL RECORD

DRAWN BY: JRD

CHECKED BY: STP

REVISIONS

ADDENDUM NO.2 01-01-2021

CONSTRUCTION 02-03-2021

DATE: DECEMBER 3, 2020

SHEET NO.: E3.1BE

JOB NO.: 201879

g:\2020\2020-0269-00\CA\2020-0269-E3-PP1.dwg, E3.1BE, 2/2/2021 3:28:28 PM, Suha A. Motil, _Default.pc3, 0.15438, Peter Basso Associates Inc.

THE FOLLOWING DIMENSION EQUALS
ONE INCH WHEN PRINTED TO SCALE.

WA

WAKELY ASSOCIATES, INC.
ARCHITECTS

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www.PeterBassoAssociates.com
PEA License No. 20200289

ELECTRICAL GENERAL NOTES:

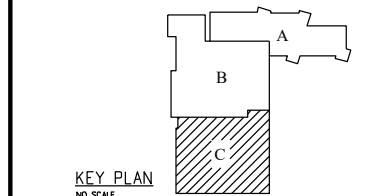
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- TRANSFORMER SECONDARY CONDUCTORS SHALL BE SIZED IN ACCORDANCE WITH TRANSFORMER CIRCUIT SIZING SCHEDULE SHOWN ON "ELECTRICAL STANDARD SCHEDULES DRAWING" UNLESS OTHERWISE NOTED.
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- COORDINATE THE MOUNTING HEIGHTS OF DEVICES WITH ARCHITECTURAL ELEVATIONS AND THE TRADES INSTALLING THE WORK.
- COORDINATE EXACT LOCATIONS OF ALL FLOOR SERVICE FITTINGS AND POLE-THROUGH ASSEMBLIES WITH FINAL FURNITURE LAYOUT DRAWINGS.
- REFER TO MECHANICAL SCHEDULE SHEETS FOR ELECTRICAL REQUIREMENTS FOR MECHANICAL EQUIPMENT. PROVIDE ALL CONNECTIONS, STARTERS, DISCONNECTS, ETC. AS REQUIRED BY SCHEDULES AND WHERE NOTED ELSEWHERE. VERIFY REQUIREMENTS OF ALL MECHANICAL EQUIPMENT WITH SHOP DRAWINGS SUBMITTALS. NOTIFY ENGINEER OF ANY CONFLICTS BETWEEN EQUIPMENT SUBMITTALS AND ELECTRICAL DRAWINGS. WHERE CIRCUIT SIZES ARE SHOWN ON THE ELECTRICAL DRAWINGS THAT DIFFER FROM WHAT IS INDICATED ON THE MECHANICAL SCHEDULES, PROVIDE THE CIRCUIT OF HIGHER AMPACITY.
- REFER TO TEMPERATURE CONTROLS SHEETS FOR REQUIRED FIRE ALARM CONTROL MODULES, DUCT SMOKE DETECTORS, AND MOTOR CONTROLLERS. PROVIDE ALL ACCESSORIES INDICATED.
- REFER TO LIGHTING CONTROL SCHEDULE FOR ROOM CONTROL AND EMERGENCY LIGHTING CIRCUIT CONTROL REQUIREMENTS. DESIGNATION FOR ROOM IS INDICATED AS A LETTERED OVAL SYMBOL.
- ALL FIRE ALARM DEVICES SHALL BE COMPATIBLE WITH EXISTING NATIONAL TIME AND SIGNAL FIRE ALARM SYSTEM. PROVIDE NECESSARY COMPONENTS, MODULES, ETC. AS REQUIRED FOR A FULLY FUNCTIONAL SYSTEM. RE-TEST AND CERTIFY EXISTING FIRE ALARM SYSTEM AT COMPLETION OF PROJECT.
- UNLESS INDICATED OTHERWISE, CIRCUIT NEW LIGHT FIXTURES TO EXISTING LIGHTING BRANCH CIRCUIT SERVING SPACE. VIA NEW CONTROLS AS INDICATED. PROVIDE NEW 0-10V CABLEING AS REQUIRED FOR DIMMING. COORDINATE CABLEING REQUIREMENTS WITH LIGHT FIXTURE AND CONTROLS MANUFACTURER.
- INCLUDE IN BID PRICE \$20,000 ALLOWANCE TO RE-CIRCUIT FIRST FLOOR UNIT VENTILATORS FROM OVERHEAD AS REQUIRED. RE-CIRCUITING SHALL BE APPROVED ON SITE BY CONSTRUCTION MANAGER PRIOR TO COMMENCEMENT OF WORK.

CONSTRUCTION KEY NOTES:

- SCOREBOARD CONTROL BOX. PROVIDE 2-GANG EMPTY DATA BOX WITH 1" CONDUIT TO SCOREBOARD. PROVIDE NYLON PULLSTRING IN CONDUIT.
- SCOREBOARD CONTROLLER, MICROPHONE, AND 120V DUPLEX RECEPTACLE OUTLET. PROVIDE NEW SCOREBOARD CABLING FROM WALL MOUNTED CONTROLLER TO NEW OUTLET ON FACE OF NEW BLEACHER. SAME FOR 120V OUTLET AND MICROPHONE. COORDINATE REQUIREMENTS WITH SCOREBOARD MANUFACTURER AND BLEACHER MANUFACTURER. PROVIDE BACKBOXES, OUTLETS AND NEW CABLING ROUTED THRU BRIDLE RINGS TO ALLOW BLEACHERS TO MOVE IN AND OUT. PROVIDE STRAIN RELIEF FOR ALL CABLES.
- CIRCUIT NEW SCOREBOARD TO EXISTING BRANCH CIRCUIT. EXTEND CONDUIT AND WIRE AS REQUIRED.
- CIRCUIT NEW MECHANICAL EQUIPMENT TO EXISTING BRANCH CIRCUIT. EXTEND CONDUIT AND WIRE AS REQUIRED. CIRCUIT TRACE AND REPLACE EXISTING CIRCUIT BREAKER SERVING BRANCH CIRCUIT WITH NEW 15A-1P CIRCUIT BREAKER. TURN REMOVED CIRCUIT BREAKER OVER TO OWNER.
- CIRCUIT RECEPTACLE(S) AT NEW DEMONSTRATION TABLE TO EXISTING BRANCH CIRCUIT. EXTEND CONDUIT AND WIRE AS REQUIRED.
- CYM DIVIDER CURTAIN AND CONTROLS FURNISHED BY OTHERS. ELECTRICAL CONTRACTOR TO PROVIDE NEW CONTROL WIRING. CIRCUIT DIVIDER CURTAIN MOTOR TO EXISTING BRANCH CIRCUIT. EXTEND CONDUIT AND WIRING AS REQUIRED. PROVIDE NEW DISCONNECT SWITCH AS REQUIRED. COORDINATE EXACT REQUIREMENTS WITH DIVIDER CURTAIN MANUFACTURER.

FARMINGTON PUBLIC SCHOOLS SITE AND BUILDING IMPROVEMENTS TO EAST MIDDLE SCHOOL 2020 BOND ISSUE - BID PACKAGE No. 1 - 2021 PROJECTS

FIRST FLOOR POWER AND
AUXILIARY NEW WORK PLAN -
AREA 'C'



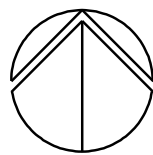
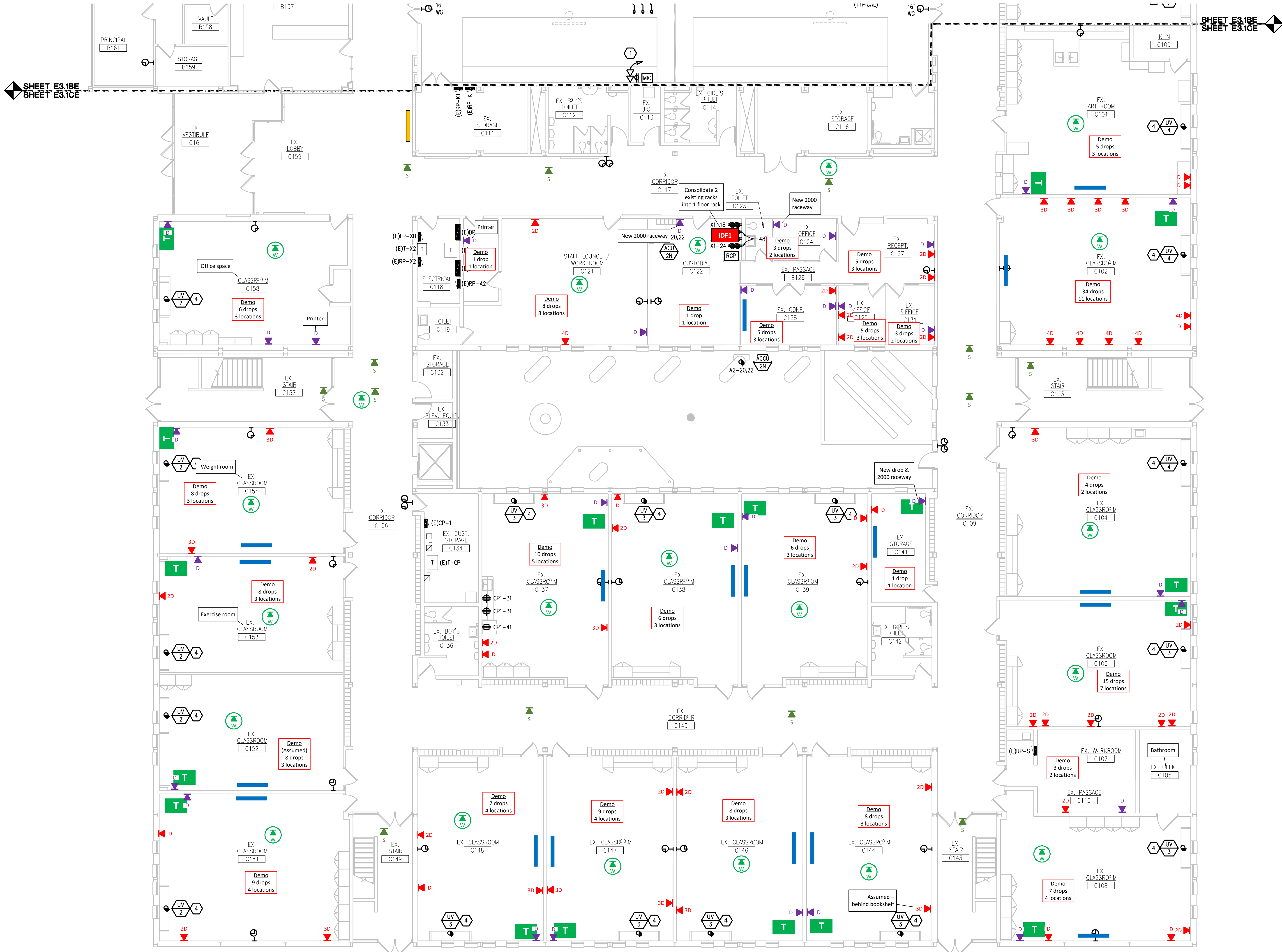
PRELIMINARY ☐
DESIGN DEVELOPMENT ☐
CONSTRUCTION ☒
FINAL RECORD ☐

DRAWN BY: JBD
CHECKED BY: STP

REVISIONS:
CONSTRUCTION 2-3-2021

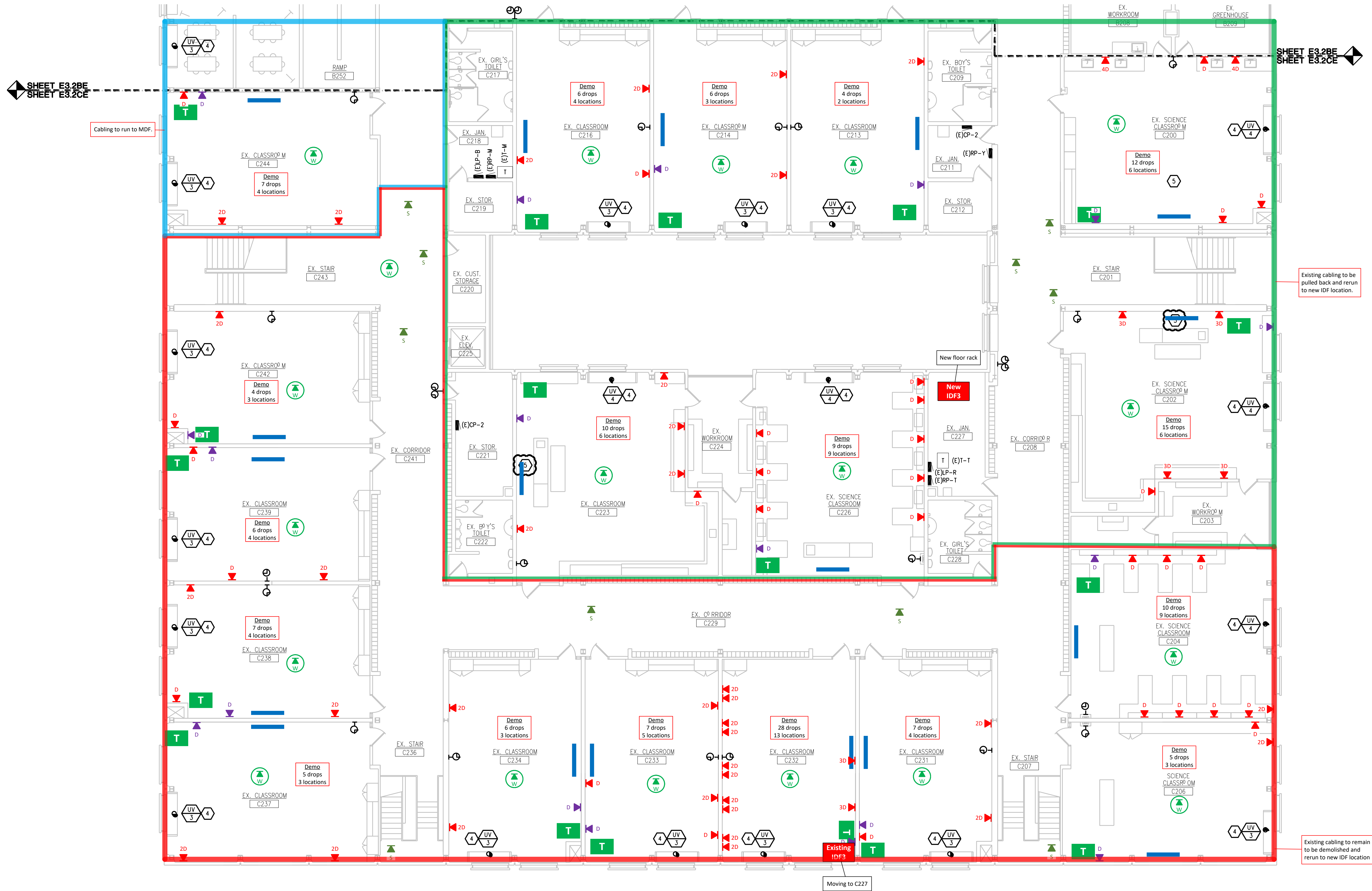
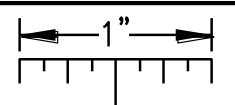
DATE: DECEMBER 3, 2020
SHEET NO.:

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FIRST FLOOR POWER AND AUXILIARY NEW WORK PLAN - AREA 'C'
SCALE: 1/8" = 1' - 0"

THE FOLLOWING DIMENSION EQUALS
ONE INCH WHEN PRINTED TO SCALE.

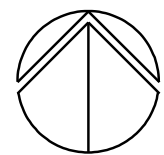


ELECTRICAL GENERAL NOTES:

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- INSTALL SYSTEMS SUCH THAT REQUIRED CLEARANCE AND SERVICE ACCESS SPACE IS PROVIDED AROUND ALL MECHANICAL AND ELECTRICAL EQUIPMENT, AND AROUND ANY COMPONENTS WHICH REQUIRE SERVICE ACCESS.
- COORDINATE AND PROVIDE ACCESS DOORS WITHIN INACCESSIBLE CEILING, SHAFT, AND CHASE AREAS FOR ALL COMPONENTS WHICH REQUIRE SERVICE ACCESS. REFER TO ARCHITECTURAL DRAWINGS FOR CEILING TYPES.
- PROVIDE SUPPLEMENTARY STEEL AS REQUIRED FOR THE PROPER SUPPORT OF ALL SYSTEMS.
- TRANSFORMER SECONDARY CONDUCTORS SHALL BE SIZED IN ACCORDANCE WITH TRANSFORMER CIRCUIT SIZING SCHEDULE SHOWN ON "ELECTRICAL STANDARD SCHEDULES DRAWING" UNLESS OTHERWISE NOTED.
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- REFER TO LIGHTING CONTROL SCHEDULE FOR ROOM CONTROL, AND EMERGENCY LIGHTING CIRCUIT CONTROL REQUIREMENTS. DESIGNATION FOR ROOM IS INDICATED AS A LETTERED OVAL SYMBOL.
- ALL FIRE ALARM DEVICES SHALL BE COMPATIBLE WITH EXISTING NATIONAL TIME AND SIGNAL FIRE ALARM SYSTEM. PROVIDE NECESSARY COMPONENTS, MODULES, ETC. AS REQUIRED FOR A FULLY FUNCTIONAL SYSTEM. RE-TEST AND CERTIFY EXISTING FIRE ALARM SYSTEM AT COMPLETION OF PROJECT.
- UNLESS INDICATED OTHERWISE CIRCUIT NEW LIGHT FIXTURES TO EXISTING LIGHTING BRANCH CIRCUIT SERVING SPACE VIA NEW CONTROLS AS INDICATED. PROVIDE NEW 0-10V CABLING AS REQUIRED FOR DIMMING. COORDINATE CABLING REQUIREMENTS WITH LIGHT FIXTURE AND CONTROLS MANUFACTURER.
- INCLUDE IN BID PRICE \$20,000 ALLOWANCE TO RE-CIRCUIT FIRST FLOOR UNIT VENTILATORS FROM OVERHEAD AS REQUIRED. RE-CIRCUITING SHALL BE APPROVED ON SITE BY CONSTRUCTION MANAGER PRIOR TO COMMENCEMENT OF WORK.

CONSTRUCTION KEY NOTES:

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- CIRCUIT RECEPTACLE(S) AT NEW DEMONSTRATION TABLE TO EXISTING BRANCH CIRCUIT. EXTEND CONDUIT AND WIRE AS REQUIRED.
- GYM DIVIDER CURTAIN AND CONTROLS FURNISHED BY OTHERS. ELECTRICAL CONTRACTOR TO PROVIDE NEW CONTROL WIRING. CIRCUIT DIVIDER CURTAIN MOTOR TO EXISTING BRANCH CIRCUIT. EXTEND CONDUIT AND WIRING AS REQUIRED. PROVIDE NEW DISCONNECT SWITCH AS REQUIRED. COORDINATE EXACT REQUIREMENTS WITH DIVIDER CURTAIN MANUFACTURER.



SECOND FLOOR POWER AND AUXILIARY NEW WORK PLAN - AREA 'C'

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



WAKELY ASSOCIATES, INC.
ARCHITECTS

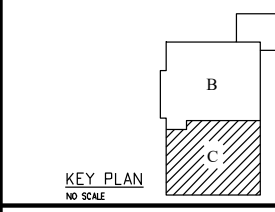
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FARMINGTON PUBLIC SCHOOLS SITE AND BUILDING IMPROVEMENTS TO EAST MIDDLE SCHOOL 2020 BOND ISSUE - BID PACKAGE No. 1 - 2021 PROJECTS

SECOND FLOOR POWER AND
AUXILIARY NEW WORK PLAN -
AREA 'C'



PRELIMINARY ☐
DESIGN DEVELOPMENT ☐
CONSTRUCTION ☒
FINAL RECORD ☐

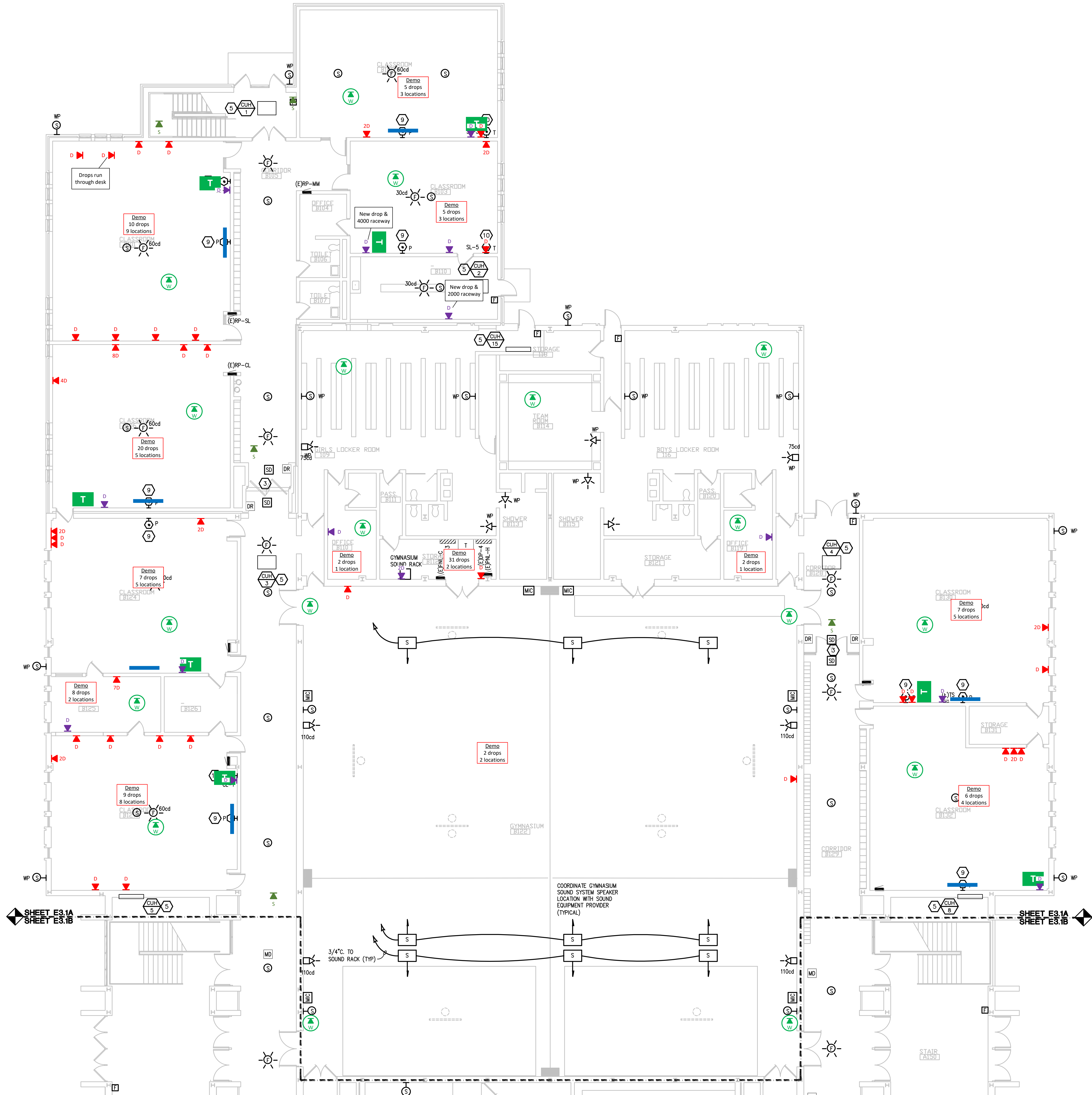
DRAWN BY: JRD
CHECKED BY: STP

REVISIONS
REVISION NO. 2 01-01-2021
CONSTRUCTION 02-03-2021

DATE: DECEMBER 3, 2020
SHEET NO.:

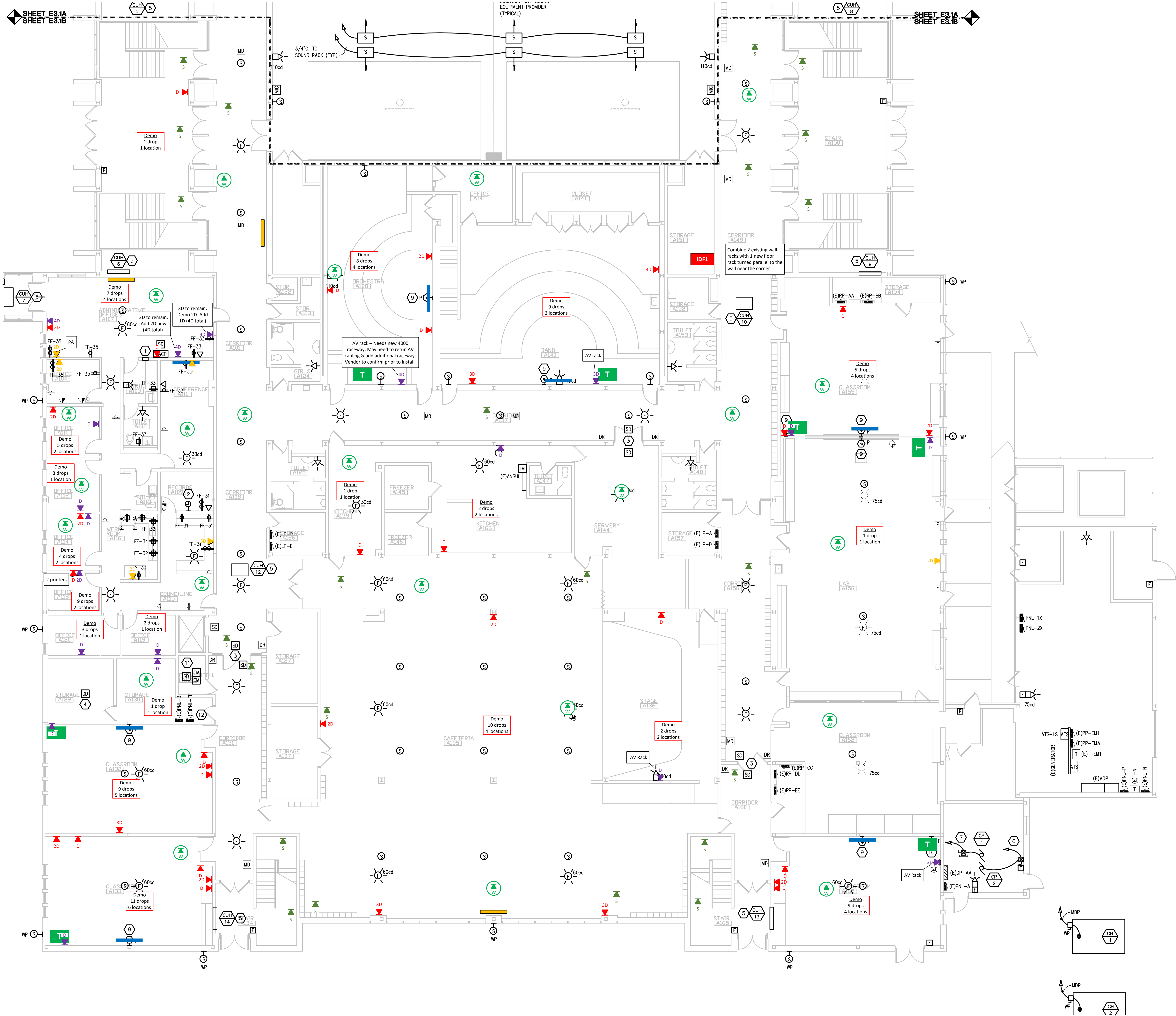
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JOB NO.: 201879



1. THESE DRAWINGS REPRESENT THE GENERAL EXIST AND ARRANGEMENT OF SYSTEMS, BUT ARE NOT TO BE CONSIDERED FABRICATION DRAWINGS. COORDINATE WITH OTHER TRADES AND THE ELECTRICAL CONTRACTOR TO COMPLETE, INCLUDING ALL NECESSARY COMPONENTS, FITTINGS, AND OFFSETS.
2. INSTALL SYSTEMS SUCH THAT REQUIRE CLEARANCE AND SERVICE ACCESS SPACE IS PROVIDED AROUND ALL MECHANICAL AND ELECTRICAL EQUIPMENT, AND AROUND ANY COMPONENTS WHICH REQUIRE SERVICE ACCESS.
3. COORDINATE AND PROVIDE ACCESS DOORS WITH INACCESSIBLE CEILING, SHaft, AND CHASE AREAS FOR ALL COMPONENTS WHICH REQUIRE SERVICE ACCESS. REFER TO ARCHITECTURAL DRAWINGS FOR CEILING TYPES.
4. PROVIDE SUPPLEMENTARY STEEL AS REQUIRED FOR THE PROPER SUPPORT OF ALL SYSTEMS.
5. TRANSFORMER SECONDARY CONDUCTORS SHALL BE SIZED IN ACCORDANCE WITH TRANSFORMER CIRCUIT SIZING SCHEDULES SHOWN ON "ELECTRICAL STANDARD SCHEDULES DRAWING" UNLESS OTHERWISE NOTED.
6. MOTOR CIRCUIT PROTECTION SHALL BE SIZED IN ACCORDANCE WITH MOTOR CIRCUIT SIZING SCHEDULES SHOWN ON "ELECTRICAL STANDARD SCHEDULES DRAWING" UNLESS OTHERWISE NOTED.
7. COORDINATE THE MOUNTING HEIGHTS OF DEVICES WITH ARCHITECTURAL ELEVATIONS AND THE TRADES INSTALLING THE WORK.
8. COORDINATE EXIST LOCATIONS OF ALL FLOOR BOXES WITH FINAL FURNITURE LAYOUT DRAWINGS.
9. REFER TO MECHANICAL SCHEDULE SHEETS FOR ELECTRICAL REQUIREMENTS FOR MECHANICAL EQUIPMENT. PROVIDE ALL CONNECTIONS, STARTERS, DISCONNECTS, ETC. COORDINATE WITH MECHANICAL DRAWINGS AND LOCATIONS OF MECHANICAL EQUIPMENTS OF ALL MECHANICAL EQUIPMENT WITH SHOP DRAWINGS SUBMITTALS. NOTIFY ENGINEER OF ANY CONFLICTS BETWEEN EQUIPMENT SUBMITTALS AND ELECTRICAL DRAWINGS. WHERE CIRCUIT SIZES ARE SHOWN ON THE ELECTRICAL DRAWINGS THAT DIFFER FROM THAT WHICH IS INDICATED ON THE MECHANICAL DRAWINGS, PROVIDE THE CIRCUIT OF HIGHER AMPACITY.
10. PROVIDE THE DESIGN AND INSTALLATION FOR A COMPLETE AND FUNCTIONAL FIRE ALARM SYSTEM IN ACCORDANCE WITH SPECIFICATIONS, DRAWINGS, AND ALL APPLICABLE CODES. THE FIRE ALARM VENDOR SHALL PROVIDE LAYOUT DRAWINGS INCLUDING THE LOCATION, IDENTIFICATION, AND LOCATIONS OF MANUAL CALL STATIONS, NOTIFICATION APPLIANCES, SMOKE AND HEAT DETECTORS, CONTROL MODULES, INTERFACE MODULES, MODULES FOR SPRINKLER FLOW AND TAMPER SWITCHES, ALL CONTROL DEVICES, AND ALL OTHER FIRE ALARM DEVICES AND EQUIPMENT REQUIRED. COORDINATE LOCATIONS OF DEVICES WITH ARCHITECTURAL FINISHES AND REFLECTED CEILING PLANS, INCLUDING ADDITIONAL SMOKE AND HEAT DETECTORS REQUIRED FOR SMOKE CEILING APPLICATIONS. INCLUDE ALLOWANCES FOR ADJUSTMENT OF DEVICES BY THE ARCHITECT AT THE TIME OF SUBMITTAL TO COORDINATE WITH BUILDING FINISHES AND OTHER CEILING ELEMENTS. PROVIDE EXISTING FLOOR AS IS, AS NOTED ON BID PRICE FOR EXIST SMOKE DETECTORS AT EXISTING FIRE SMOKE DAMPERS. COORDINATE LOCATION OF FIRE SMOKE DAMPERS IN FIELD.
11. CIRCUIT EXIST LIGHT FIXTURES UN-SWITCHED TO HOT LEG OF NEAREST AVAILABLE EMERGENCY LIGHTING CIRCUIT.
12. EXTEND EXISTING CIRCUIT GROUNDING AS REQUIRED PER NEC.

1. RELOCATED MASTER CLOCK. CONNECT TO EXISTING CLOCK CIRCUITS AND BRANCH CIRCUIT THAT SERVED PREVIOUS LOCATION. EXTEND CONDUIT AND WIRES AS REQUIRED.
2. RELOCATED CLOCK. CONNECT TO EXISTING CLOCK CIRCUIT. EXTEND CONDUIT AND WIRES AS REQUIRED.
3. PROVIDE FIRE ALARM CONTROL MODULE AND SMOKE DETECTORS FOR DOOR RELEASE. RELEASE MOUNTING TO EXISTING CONDUIT. DOOR HARDWARE IS EXISTING OR BY OTHERS (IF NEW DOOR). WIRE TO FIRE ALARM PANEL. SO THAT UPON DETECTION OF SMOKE AT ASSOCIATED DOOR SMOKE DETECTORS, DOOR WILL RELEASE. AND FIRE ALARM SYSTEM WILL BE ACTIVATED. PROVIDE 120V POWER (FROM EXISTING CIRCUIT) OR 24V POWER (FROM NEAREST FIRE ALARM SYSTEM) AS REQUIRED.
4. DUCT SMOKE DETECTORS. COORDINATE REQUIRED QUANTITIES AND MOUNTING LOCATIONS WITH EXISTING DUCT WORK TO KEEP CODE. (PROVIDE 4 DUCT SMOKE DETECTORS PER AHU/RTU/AC FOR BID PURPOSES. QUANTITIES WILL BE ADJUSTED IN FIELD BASED ON EXISTING DUCTWORK AND ROUTING LOCATIONS). COORDINATE INSTALLATION WITH THE EXISTING MECHANICAL DUCT WORK SO THAT CONTROL OF SMOKE, THE SUPPLY/RETURN FAN WILL SHUT DOWN. CONTRACTOR SHALL WIRE DUCT SMOKE DETECTOR TO FIRE ALARM CONTROL. DETECTOR, OR AIR HANDLING EQUIPMENT IS VIA THE FIRE ALARM CONTROL PANEL. PROVIDE ALL REQUIRED FIRE ALARM CONTROL MODULES AND RELAYS TO INTERFACE WITH CONTRACTOR AND MOUNTING. PROVIDE EXHAUST FAN. PROVIDE ALL CONDUITS, MODULES, RELAYS, ETC. FOR A COMPLETE OPERATING SYSTEM.
5. CIRCUIT NEW MECHANICAL. EQUIPMENT TO EXISTING BRANCH CIRCUIT. EXTEND CONDUIT AND WIRE AS REQUIRED.
6. CIRCUIT TO SPARE 20A-3P CIRCUIT BREAKER IN PNL-A.
7. PROVIDE NEW 20A-3P CIRCUIT BREAKER IN EXISTING SPACE IN (EIPNL-A AND BRANCH CIRCUIT (CONDUIT AND WIRE) FOR PUMP CP-1.
8. PROVIDE NEW 15A-2P CIRCUIT BREAKER IN EXISTING SPACE IN (EIPR-NH AND BRANCH CIRCUIT (CONDUIT AND WIRE) FOR SPLIT AQUATIC A-1.
9. REFER TO THRU THROW PROJECTOR DETAIL ON E7 SERIES DRAWINGS FOR POWER AND DATA RAYWAY REQUIREMENTS AT NEW PROJECTOR. COORDINATE EXACT LOCATION OF PROJECTOR WITH EXISTING RAYWAY AND TELECOM CONTRACTORS. WHEN NO CIRCUIT IS INDICATED, EXTEND EXISTING BRANCH CIRCUIT THAT PREVIOUSLY SERVED TELEVISION TO NEW PROJECTOR LOCATION.
10. REFER TO TEACHER STATION RAYWAY DETAIL ON E7 SERIES DRAWINGS FOR POWER AND DATA RAYWAY REQUIREMENTS AT TEACHER STATION. COORDINATE EXACT LOCATION OF TEACHER STATION WITH EXISTING RAYWAY AND TELECOM CONTRACTORS. WHEN NO CIRCUIT IS INDICATED, WHEN NO CIRCUIT IS INDICATED, EXTEND EXISTING BRANCH CIRCUIT(S) THAT PREVIOUSLY SERVED OLD TEACHER STATION RAYWAY TO NEW TEACHER STATION RAYWAY LOCATION.
11. CONNECT FIRE ALARM DEVICES TO EXISTING ELEVATOR CONTROLLER AND NEW FIRE ALARM SYSTEM. PROVIDE ELEVATOR SERVICE TECHNICIAN FOR ALL SMOKE DETECTOR AND CONTROL MODULES. PROVIDE ELEVATOR CONTRACTORS. PROVIDE COSTS FOR ELEVATOR SERVICE REPRESENTATIVE WORK IN BID PRICE.
12. PROVIDE (10) 20A-1P CIRCUIT BREAKERS AT (EIPNL-F) FOR RECEPTACLE CIRCUITING INDICATED. UNUSED CIRCUIT BREAKERS SHALL REMAIN AS SPARE.

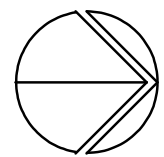


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- COORDINATE AND PROVIDE ACCESS DOORS WITHIN INACCESSIBLE CEILING, SHAFT, AND CHASE AREAS FOR ALL COMPONENTS WHICH REQUIRE SERVICE ACCESS. REFER TO ARCHITECTURAL DRAWINGS FOR CEILING TYPES.
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- PROVIDE FIRE ALARM CONTROL MODULE AND SMOKE DETECTORS FOR DOOR RELEASE. COORDINATE MOUNTING WITH EXISTING CONDITIONS. DOOR HARDWARE IS EXISTING OR BY OTHERS (IF NEW DOOR). WIRE TO FIRE ALARM PANEL SO THAT UPON DETECTION OF SMOKE AT ASSOCIATED DOOR SMOKE DETECTORS, DOOR WILL RELEASE AND FIRE ALARM SYSTEM WILL BE ACTIVATED. PROVIDE 120V POWER (FROM DEDICATED CIRCUIT) OR 24V POWER (FROM NEAREST FIRE ALARM SYSTEM) AS REQUIRED.
- DUCT SMOKE DETECTORS. COORDINATE REQUIRED QUANTITIES AND MOUNTING LOCATIONS WITH EXISTING DUCT WORK TO MEED CODE. PROVIDE DUCT SMOKE DETECTORS PER AHJ/ETI/AC FOR BID PURPOSES. QUANTITIES WILL BE ADJUSTED IN FIELD BASED ON EXISTING DUCT WORK PENETRATIONS AND ROUTING LOCATIONS). COORDINATE INSTALLATION WITH THE EXISTING MECHANICAL DUCT WORK SO THAT UPON DETECTION OF SMOKE, THE SUPPLY/RETURN FAN WILL SHUT DOWN. CONTRACTOR SHALL WIRE DUCT SMOKE DETECTOR TO FIRE ALARM SYSTEM. CONTROL OF AIR HANDLING EQUIPMENT IS VIA THE FIRE ALARM CONTROL PANEL. PROVIDE ALL REQUIRED FIRE ALARM CONTROL MODULES AND RELAYS TO INTERFACE WITH SUPPLY FAN AND ASSOCIATED RETURN FAN (OR EXHAUST FAN). PROVIDE ALL CONTROL MODULES, RELAYS, ETC. FOR A COMPLETE OPERATING SYSTEM.
- CIRCUIT NEW MECHANICAL EQUIPMENT TO EXISTING BRANCH CIRCUIT. EXTEND CONDUIT AND WIRE AS REQUIRED.
- CIRCUIT TO SPARE 20A-3P CIRCUIT BREAKER IN PNL-A.
- PROVIDE NEW 20A-3P CIRCUIT BREAKER IN EXISTING SPACE IN (E)PNL-A AND BRANCH CIRCUIT (CONDUIT AND WIRE) FOR PUMP CP-1.
- PROVIDE NEW 15A-2P CIRCUIT BREAKER IN EXISTING SPACE IN (E)RP-NN AND BRANCH CIRCUIT (CONDUIT AND WIRE) FOR SPLIT SYSTEM ACU-1.
- REFER TO SHORT THROW PROJECTOR DETAIL ON E7 SERIES DRAWINGS FOR POWER AND DATA RACEWAY REQUIREMENTS AT TEACHER STATION. COORDINATE EXACT LOCATION WITH ARCHITECTURAL DRAWINGS AND TECHNOLOGY CONTRACTOR. CIRCUIT RECEPTACLES AS INDICATED. WHERE NO CIRCUIT IS INDICATED, EXTEND EXISTING BRANCH CIRCUIT(S) THAT PREVIOUSLY SERVED OLD TEACHER STATION RACEWAY TO NEW TEACHER STATION RACEWAY LOCATION.
- CONNECT FIRE ALARM DEVICES TO EXISTING ELEVATOR CONTROLLER AND NEW FIRE ALARM SYSTEM. COORDINATE WITH ELEVATOR SERVICE TECHNICIAN FOR ALL SMOKE DETECTORS AND CONTROL MODULES FOR ELEVATOR. CONTRACTOR SHALL INCLUDE COSTS FOR ELEVATOR SERVICE REPRESENTATIVES WORK IN BID PRICE.
- PROVIDE (10) 20A-1P CIRCUIT BREAKERS AT (E)PNL-FF FOR RECEPTACLE CIRCUITING AS INDICATED. UNUSED CIRCUIT BREAKERS SHALL REMAIN AS SPARE.



AREA 'B' FIRST FLOOR POWER NEW WORK PLAN
SCALE: 1/8" = 1' - 0"



FARMINGTON PUBLIC SCHOOLS - 2015 BOND
2017 RENOVATIONS
POWER MIDDLE SCHOOL

AREA 'B' FIRST FLOOR
POWER NEW WORK PLAN

PRELIMINARY ☐
DESIGN DEVELOPMENT ☐
CONSTRUCTION ☒
FINAL RECORD ☐

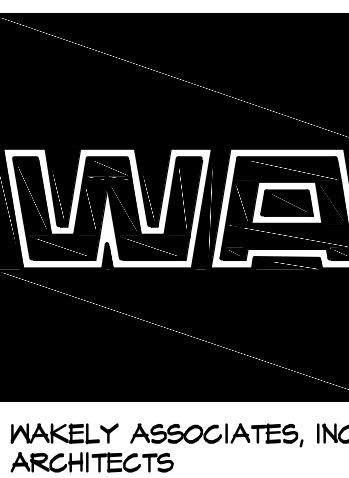
DRAWN BY: JRD
CHECKED BY: GJZ

REVISIONS
BDS 12-23-2016

DATE: DECEMBER 23, 2016
SHEET NO.:

E3.1BP

JOB NO. 161664C



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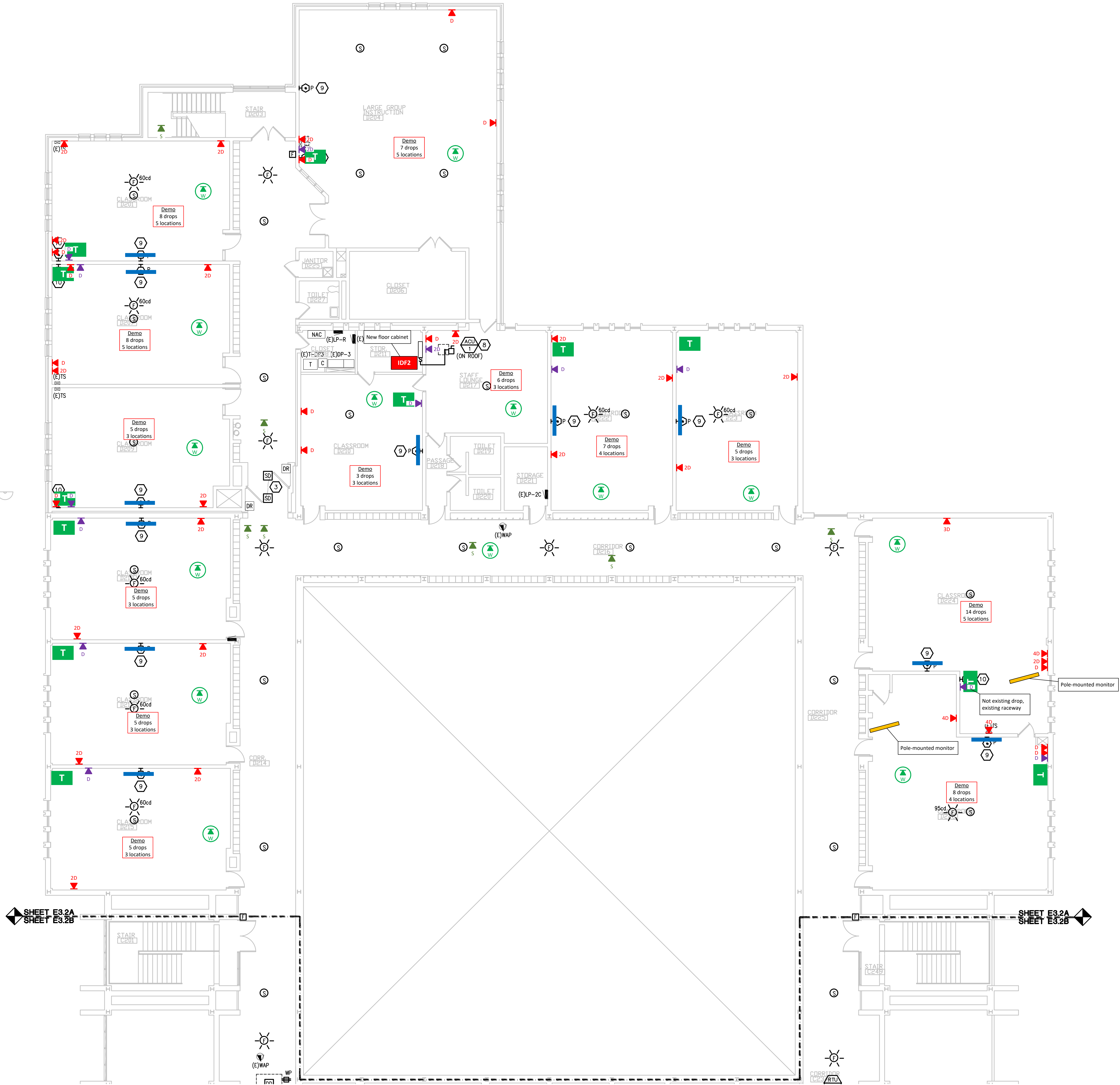
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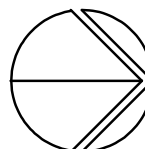
GENERAL NOTES:

- THESE DRAWINGS REPRESENT THE GENERAL EXTENT AND ARRANGEMENT OF SYSTEMS, BUT ARE NOT TO BE CONSIDERED FABRICATION DRAWINGS. COORDINATE WITH OTHER TRADES, AND PROVIDE EACH SYSTEM COMPLETE, INCLUDING ALL NECESSARY COMPONENTS, FITTINGS, AND OFFSETS.
- INSTALL SYSTEMS SUCH THAT REQUIRED CLEARANCE AND SERVICE ACCESS SPACE IS PROVIDED AROUND ALL MECHANICAL AND ELECTRICAL EQUIPMENT, AND AROUND ANY COMPONENTS WHICH REQUIRE SERVICE ACCESS.
- COORDINATE AND PROVIDE ACCESS DOORS WITHIN INACCESSIBLE CEILING, SHAFT, AND CHASE AREAS FOR ALL COMPONENTS WHICH REQUIRE SERVICE ACCESS. REFER TO ARCHITECTURAL DRAWINGS FOR CEILING TYPES.
- PROVIDE SUPPLEMENTARY STEEL AS REQUIRED FOR THE PROPER SUPPORT OF ALL SYSTEMS.
- TRANSFORMER SECONDARY CONDUCTORS SHALL BE SIZED IN ACCORDANCE WITH TRANSFORMER CIRCUIT SIZING SCHEDULE SHOWN ON "ELECTRICAL STANDARD SCHEDULES DRAWING" UNLESS OTHERWISE NOTED.
- MOTOR CIRCUIT PROTECTION SHALL BE SIZED IN ACCORDANCE WITH MOTOR CIRCUIT SIZING SCHEDULES SHOWN ON "ELECTRICAL STANDARD SCHEDULES DRAWING" UNLESS OTHERWISE NOTED.
- COORDINATE THE MOUNTING HEIGHTS OF DEVICES WITH ARCHITECTURAL ELEVATIONS AND THE TRADES INSTALLING THE WORK.
- COORDINATE EXACT LOCATIONS OF ALL FLOOR BOXES WITH FINAL FURNITURE LAYOUT DRAWINGS.
- REFER TO MECHANICAL SCHEDULE SHEETS FOR ELECTRICAL REQUIREMENTS FOR MECHANICAL EQUIPMENT. PROVIDE ALL CONNECTIONS, STARTERS, DISCONNECTS, ETC. AS REQUIRED BY SCHEDULES AND WHERE NOTED ELSEWHERE. VERIFY REQUIREMENTS OF ALL MECHANICAL EQUIPMENT WITH SHOP DRAWINGS SUBMITTALS. NOTIFY ENGINEER OF ANY CONFLICTS BETWEEN EQUIPMENT SUBMITTALS AND ELECTRICAL DRAWINGS. WHERE CIRCUIT SIZES ARE SHOWN ON THE ELECTRICAL DRAWINGS THAT DIFFER FROM WHAT IS INDICATED ON THE MECHANICAL SCHEDULES, PROVIDE THE CIRCUIT OF HIGHER AMPACITY.
- PROVIDE THE DESIGN AND INSTALLATION FOR A COMPLETE AND FUNCTIONAL FIRE ALARM SYSTEM IN ACCORDANCE WITH SPECIFICATIONS, DRAWINGS, AND ALL APPLICABLE CODES. THE FIRE ALARM VENDOR SHALL PROVIDE LAYOUT DRAWINGS INDICATING THE REQUIRED QUANTITIES AND LOCATIONS OF MANUAL PULL STATIONS, NOTIFICATION APPLIANCES, SMOKE AND HEAT DETECTORS, CONTROL MODULES, INTERFACE MODULES, MODULES FOR SPRINKLER FLOW AND TAMPER SWITCHES, ALL CONTROL PANELS, POWER SUPPLIES, ADDITIONAL DEVICES AND EQUIPMENT REQUIRED. COORDINATE LOCATIONS OF DEVICES WITH ARCHITECTURAL FINISHES AND REFLECTED CEILING PLANS, INCLUDING ADDITIONAL SMOKE AND HEAT DETECTORS REQUIRED FOR NON-SMOOTH CEILING APPLICATIONS. INCLUDE ALLOWANCES FOR ADJUSTMENT OF DEVICES BY THE ARCHITECT AT THE TIME OF SUBMITTAL TO COORDINATE WITH BUILDING FINISHES AND OTHER CEILING ELEMENTS. PROVIDE \$25,000 ALLOWANCE AS PART OF BID PRICE FOR DUCT SMOKE DETECTORS AT EXISTING FIRE SMOKE DAMPERS. COORDINATE LOCATION OF FIRE SMOKE DAMPERS IN FIELD.
- CIRCUIT EXIT LIGHT FIXTURES UN-SWITCHED TO HOT LEG OF NEAREST AVAILABLE EMERGENCY LIGHTING CIRCUIT.
- EXTEND EXISTING CIRCUIT GROUNDING AS REQUIRED PER NEC.

CONSTRUCTION KEY NOTES:

- RELOCATED MASTER CLOCK. CONNECT TO EXISTING CLOCK CIRCUITS AND BRANCH CIRCUIT THAT SERVED PREVIOUS LOCATION. EXTEND CONDUIT AND WIRES AS REQUIRED.
- RELOCATED CLOCK. CONNECT TO EXISTING CLOCK CIRCUIT. EXTEND CONDUIT AND WIRES AS REQUIRED.
- PROVIDE FIRE ALARM CONTROL MODULE AND SMOKE DETECTORS FOR DOOR RELEASE. COORDINATE MOUNTING WITH EXISTING CONDITIONS. DOOR HARDWARE IS EXISTING OR BY OTHERS (IF NEW DOOR). WIRE TO FIRE ALARM PANEL SO THAT UPON DETECTION OF SMOKE AT ASSOCIATED DOOR SMOKE DETECTORS, DOOR WILL RELEASE AND FIRE ALARM SYSTEM WILL BE ACTIVATED. PROVIDE 120V POWER (FROM DEDICATED CIRCUIT) OR 24V POWER (FROM NEAREST FIRE ALARM SYSTEM) AS REQUIRED.
- DUCT SMOKE DETECTORS. COORDINATE REQUIRED QUANTITIES AND MOUNTING LOCATIONS WITH EXISTING DUCT WORK TO MEED CODE. (PROVIDE 4 DUCT SMOKE DETECTORS PER AHU/RTU/AC FOR BID PURPOSES. QUANTITIES WILL BE ADJUSTED IN FIELD BASED ON EXISTING DUCT WORK PENETRATIONS AND ROUTING LOCATIONS). COORDINATE INSTALLATION WITH THE EXISTING MECHANICAL DUCT WORK SO THAT UPON DETECTION OF SMOKE, THE SUPPLY/RETURN FAN WILL SHUT DOWN. CONTRACTOR SHALL WIRE DUCT SMOKE DETECTOR TO FIRE ALARM SYSTEM. CONTROL OF AIR HANDLING EQUIPMENT IS VIA THE FIRE ALARM CONTROL PANEL. PROVIDE ALL REQUIRED FIRE ALARM CONTROL MODULES AND RELAYS TO INTERFACE WITH SUPPLY FAN AND ASSOCIATED RETURN FAN (OR EXHAUST FAN). PROVIDE ALL CONTROL MODULES, RELAYS, ETC. FOR A COMPLETE OPERATING SYSTEM.
- CIRCUIT NEW MECHANICAL EQUIPMENT TO EXISTING BRANCH CIRCUIT. EXTEND CONDUIT AND WIRE AS REQUIRED.
- CIRCUIT TO SPARE 20A-3P CIRCUIT BREAKER IN PNL-A.
- PROVIDE NEW 20A-3P CIRCUIT BREAKER IN EXISTING SPACE IN (E)PNL-A AND BRANCH CIRCUIT (CONDUIT AND WIRE) FOR PUMP CP-1.
- PROVIDE NEW 15A-2P CIRCUIT BREAKER IN EXISTING SPACE IN (E)RP-NN AND BRANCH CIRCUIT (CONDUIT AND WIRE) FOR SPLIT SYSTEM ACU-1.
- REFER TO SHORT THROW PROJECTOR DETAIL ON E7 SERIES DRAWINGS FOR POWER AND DATA RACEWAY REQUIREMENTS AT NEW PROJECTOR. COORDINATE EXACT LOCATION WITH ARCHITECTURAL DRAWINGS AND TECHNOLOGY CONTRACTOR. CIRCUIT RECEPTACLES AS INDICATED. WHERE NO CIRCUIT IS INDICATED, EXTEND EXISTING BRANCH CIRCUIT(S) THAT PREVIOUSLY SERVED OLD TEACHER STATION RACEWAY TO NEW TEACHER STATION RACEWAY LOCATION.
- REFER TO TEACHER STATION RACEWAY DETAIL ON E7 SERIES DRAWINGS FOR POWER AND DATA RACEWAY REQUIREMENTS AT TEACHER STATION. COORDINATE EXACT LOCATION WITH ARCHITECTURAL DRAWINGS AND TECHNOLOGY CONTRACTOR. CIRCUIT RECEPTACLES AS INDICATED. WHERE NO CIRCUIT IS INDICATED, EXTEND EXISTING BRANCH CIRCUIT(S) THAT PREVIOUSLY SERVED OLD TEACHER STATION RACEWAY TO NEW TEACHER STATION RACEWAY LOCATION.
- CONNECT FIRE ALARM DEVICES TO EXISTING ELEVATOR CONTROLLER AND NEW FIRE ALARM SYSTEM. COORDINATE WITH ELEVATOR SERVICE TECHNICIAN FOR ALL SMOKE DETECTORS AND CONTROL MODULES FOR ELEVATOR. CONTRACTOR SHALL INCLUDE COSTS FOR ELEVATOR SERVICE REPRESENTATIVES WORK IN BID PRICE.
- PROVIDE (10) 20A-1P CIRCUIT BREAKERS AT (E)PNL-FF FOR RECEPTACLE CIRCUITING AS INDICATED. UNUSED CIRCUIT BREAKERS SHALL REMAIN AS SPARE.





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FARMINGTON PUBLIC SCHOOLS - 2015 BOND
2017 RENOVATIONS
POWER MIDDLE SCHOOL

JOBNO. 161664C

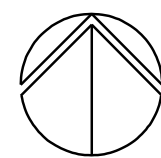
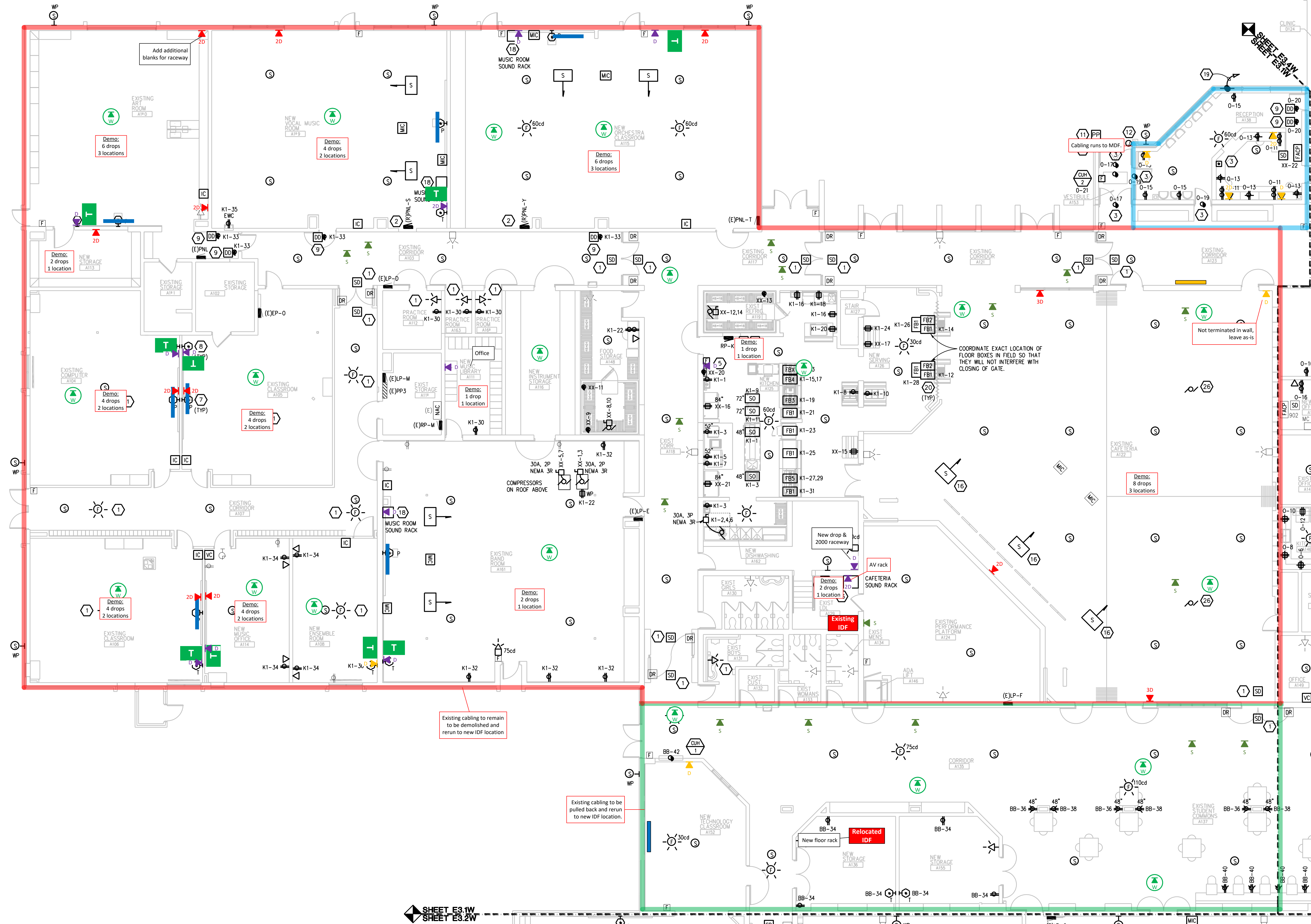
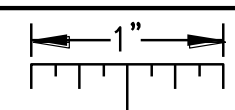
1. RELOCATED MASTER CLOCK CONNECTION TO EXISTING CLOCK CIRCUITS AND BRANCH CIRCUIT THAT SERVED PREVIOUS LOCATION. EXTEND CONDUIT AND WIRES AS REQUIRED.
2. RELOCATED CLOCK, CONNECT TO EXISTING CLOCK CIRCUIT. EXTEND CONDUIT AND WIRES AS REQUIRED.
3. PROVIDE FIRE ALARM CONTROL MODULE AND SMOKE DETECTORS FOR DOOR RELEASE AND MANUAL MOUNTING TO EXISTING CONDITIONS. DOOR HARDWARE EXISTING OR BY OTHERS (IF NEW DOOR). WIRE TO FIRE ALARM PANEL SO THAT UPON DETECTION OF SMOKE AT ASSOCIATED DOOR SMOKE DETECTORS, DOOR WILL RELEASE AND FIRE ALARM SYSTEM WILL BE ACTIVATED. PROVIDE 120V POWER FROM PANEL (FROM DETECTED CIRCUIT OR 240V FROM NEAREST FIRE ALARM SYSTEM) AS REQUIRED.
4. DUCT SMOKE DETECTORS. COORDINATE REQUIRED QUANTITIES AND MOUNTING LOCATIONS WITH EXISTING DUCT WORK TO MEED CODE. PROVIDE 4 DUCT SMOKE DETECTORS PER AHU/RTU/AC FOR BID PURPOSES. QUANTITIES WILL BE ADJUSTED IN FIELD BASED ON MEASUREMENTS. COORDINATE WITH MECHANICAL CONTRACTORS. COORDINATE INSTALLATION WITH THE EXISTING MECHANICAL DUCT WORK SO THAT DETECTION OF SMOKE, THE SUPPLY/RETURN FAN WILL SHUT DOWN. CONTRACTOR SHALL WIRE DUCT SMOKE DETECTOR TO FIRE ALARM SYSTEM. CONTROL OF AIR HANDLING EQUIPMENT IS THE WIRE FIRE ALARM CONTROL PANEL. PROVIDE ALL REQUIRED FIRE ALARM CONTROL MODULES AND RELAYS TO INTERFACE WITH EXISTING AND NEW CONTROL MODULES (FOR EXHAUST FAN). PROVIDE ALL CONTROL MODULES, RELAYS, ETC. FOR A COMPLETE OPERATING SYSTEM.
5. CRUISE NEW MECHANICAL EQUIPMENT TO EXISTING BRANCH CIRCUIT. EXTEND CONDUIT AND WIRES AS REQUIRED.
6. CRUISE TO SPARE 20A-3P CRUISE BREAKER IN PNL-A.
7. PROVIDE NEW 20A-3P CRUISE BREAKER IN EXISTING SPACE IN (E)PNL-A AND BRANCH CIRCUIT (CONDUIT AND WIRE) FOR PLUMP CP-1.
8. PROVIDE NEW 15A-2P CRUISE BREAKER IN EXISTING SPACE IN (E)RP-NL AND BRANCH CIRCUIT (CONDUIT AND WIRE) FOR PLUMP SYSTEM ACU-1.
9. REFER TO SHORT THRU PROJECTOR DETAIL ON E7 SERIES DRAWINGS FOR POWER AND DATA RACKAGE REQUIREMENTS AT NEW PROJECTOR. COORDINATE EXACT WITH SIGNAL CONTRACTOR. PROVIDE ELEVATOR LEVEL AND TELEVISION CONTRACTOR WHERE NO CIRCUIT IS INDICATED, EXIST EXISTING BRANCH CIRCUIT THAT PREVIOUSLY SERVED TELEVISION TO NEW PROJECTOR LOCATION.
10. REFER TO TEACHER STATION RACKWAY DETAIL ON E7 SERIES DRAWINGS FOR POWER AND DATA RACKAGE REQUIREMENTS AT TEACHER STATION. COORDINATE EXACT WITH ARCHITECTURAL DRAWINGS AND TELEGRAPHY CONTRACTOR. CIRCUIT RECEPTS AS INDICATED. WHERE NO CIRCUIT IS INDICATED, EXIST EXISTING BRANCH CIRCUIT(S) THAT PREVIOUSLY SERVED OLD TEACHER STATION RACKWAY TO NEW TEACHER STATION RACKWAY LOCATION.
11. CONNECT FIRE ALARM DEVICES TO EXISTING ELEVATOR CONTRACTOR AND NEW FIRE ALARM SYSTEM. COORDINATE WITH ELEVATOR SERVICE TECHNICIAN FOR ALL INCLUDES. PROVIDE CONTRACTOR WITH ELEVATOR SERVICE REPRESENTATIVE WORK IN BID PRICE.
12. PROVIDE (10) 20A-1P CRUISE BREAKERS AT (E)PNL-F FOR RECEPTACLE. ORIGINATING AS INDICATED, UNUSED CRUISE BREAKER SHALL REMAIN AS SPARE.



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PBA Project No.: 2015-0143-05

THE FOLLOWING DIMENSION EQUALS ONE INCH WHEN PRINTED TO SCALE.



POWER PLAN - AREA 'A'

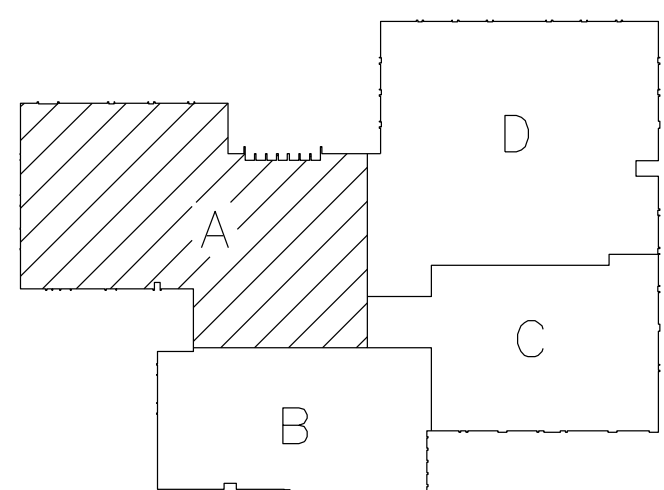
SCALE: 1/8" = 1' - 0"

GENERAL NOTES:

- THESE DRAWINGS REPRESENT THE GENERAL EXTENT AND ARRANGEMENT OF SYSTEMS, BUT ARE NOT TO BE CONSIDERED FABRICATION DRAWINGS. COORDINATE WITH OTHER TRADES AND PROVIDE EACH SYSTEM COMPLETE, INCLUDING ALL NECESSARY COMPONENTS, FITTINGS, AND OFFSETS.
- INSTALL SYSTEMS SUCH THAT REQUIRED CLEARANCE AND SERVICE ACCESS SPACE IS PROVIDED AROUND ALL MECHANICAL AND ELECTRICAL EQUIPMENT, AND AROUND ANY COMPONENTS WHICH REQUIRE SERVICE ACCESS.
- COORDINATE AND PROVIDE ACCESS DOORS WITHIN INACCESSIBLE CEILING, SHAFT, AND CHASE AREAS FOR ALL COMPONENTS WHICH REQUIRE SERVICE ACCESS. REFER TO ARCHITECTURAL DRAWINGS FOR CEILING TYPES.
- PROVIDE SUPPLEMENTARY STEEL AS REQUIRED FOR THE PROPER SUPPORT OF ALL SYSTEMS.
- MOTOR CIRCUIT PROTECTION SHALL BE SIZED IN ACCORDANCE WITH MOTOR CIRCUIT SIZING SCHEDULES SHOWN ON ELECTRICAL STANDARD SCHEDULES DRAWING UNLESS OTHERWISE NOTED.
- COORDINATE THE MOUNTING HEIGHTS OF DEVICES WITH ARCHITECTURAL ELEVATIONS AND THE TRADES INSTALLING THE WORK.
- COORDINATE EXACT LOCATIONS OF ALL FLOOR BOXES WITH FINAL FURNITURE LAYOUT DRAWINGS.
- REFER TO MECHANICAL SCHEDULE SHEETS FOR ELECTRICAL REQUIREMENTS FOR MECHANICAL EQUIPMENT. PROVIDE ALL CONNECTORS, STARTERS, DISCONNECTS, ETC. AS REQUIRED BY SCHEDULES AND WHERE NOTED ELSEWHERE. VERIFY REQUIREMENTS OF ALL MECHANICAL EQUIPMENT WITH SHOP DRAWINGS SUBMITTALS. NOTIFY ENGINEER OF ANY CONFLICTS BETWEEN EQUIPMENT SUBMITTALS AND ELECTRICAL DRAWINGS. WHERE CIRCUIT SIZES ARE SHOWN ON THE ELECTRICAL DRAWINGS THAT DIFFER FROM WHAT IS INDICATED ON THE MECHANICAL SCHEDULES, PROVIDE THE CIRCUIT OF HIGHER IMPACT.
- REFER TO TEMPERATURE CONTROL SHEETS FOR REQUIRED MOTOR CONTROLLERS. PROVIDE ALL ACCESSORIES INDICATED.
- REFER TO LIGHTING CONTROL MATRIX FOR SWITCH TYPE, DIMMING WALL BOX CONTROL, TO BE COMPATIBLE WITH CONTROLS AND LIGHT FIXTURE BEING DAMMED.
- ALL NEW FIRE ALARM DEVICES SHALL BE COMPATIBLE WITH NEW VOICE ENABLED FIRE ALARM SYSTEM. PROVIDE NECESSARY COMPONENTS, MODULES, ETC. AS REQUIRED FOR A FULLY FUNCTIONAL SYSTEM. NEW VOICE SYSTEM SHALL BE CROSS TESTED TO EXISTING NATIONAL TIME AND SIGNAL HORN/STROBE FIRE ALARM SYSTEM. RE-TEST AND CERTIFY EXISTING FIRE ALARM SYSTEM AT COMPLETION OF PROJECT.
- EXTEND EXISTING CIRCUIT GROUNDS AS REQUIRED PER NEC.
- UNLESS OTHERWISE INDICATED, NEW LIGHT FIXTURES SHALL BE CIRCUITED TO EXISTING LIGHTING BRANCH CIRCUIT SERVING SPACE. EXTEND CONDUIT AND WIRE AND REVISE SWITCHED LEG AS REQUIRED FOR NEW SWITCHING AS INDICATED. PROVIDE NEW 0-10V DIMMING AS REQUIRED. REFER TO LIGHTING CONTROL MATRIX ON E7 SERIES DRAWINGS FOR DIMMING REQUIREMENTS.
- CIRCUIT EXIT LIGHT FIXTURES UNWITNESSED TO 10 FT LEG 9 FT EMERGENCY LIGHTING BRANCH CIRCUIT SERVING SPACE.

CONSTRUCTION KEY NOTES:

- REINSTALL EXISTING FIRE ALARM DEVICE. CONNECT TO EXISTING CIRCUITING. EXTEND CIRCUITING AS REQUIRED.
- RELOCATED PANEL. EXTEND EXISTING FEEDER (CONDUIT AND WIRE) AND BRANCH CIRCUITS (CONDUIT AND WIRE) TO NEW LOCATION. PROVIDE NEW UPDATED PANEL SCHEDULE AS REQUIRED.
- PROVIDE 120V CIRCUIT IN CEILING SPACE FOR DOOR SECURITY AND CONTROLS. REFER TO ARCHITECTURAL FLOOR PLANS, DOOR HARDWARE SCHEDULE ON ARCHITECTURAL DRAWINGS, ACCESS CONTROL SYSTEM SPECIFICATION SECTION, AND ACCESS CONTROL DOOR DIAGRAMS (E7) SERIES DRAWINGS FOR RACEWAY AND BACK BOX REQUIREMENTS FOR DOOR OR BANK OF DOORS INDICATED. PROVIDE ALL RACEWAYS AND BACK BOXES REQUIRED. COORDINATE WITH DOOR HARDWARE CONTRACTOR. PROVIDE 1" CONDUIT FROM ARCHITECTURAL CASEWORK FOR DOOR RELEASE PUSH BUTTON TO ACCESSIBLE CEILING SPACE ABOVE DOORS FOR SECURITY DOOR RELEASE. COORDINATE LOCATION OF PUSH BUTTON WITH OWNER PRIOR TO INSTALLATION.
- PROVIDE NEW SUSPENDED PULLEY FOR NEW/RELOCATED KITCHEN EQUIPMENT. REFER TO SUSPENDED OUTLET DETAIL ON E7 SERIES DRAWINGS FOR REQUIREMENTS. CIRCUIT AS INDICATED.
- NEW ANSUL SYSTEM AND ANSUL SYSTEM PULLSTATION. REFER TO DETAILS ON E7 SERIES DRAWINGS FOR REQUIREMENTS.
- NEW KITCHEN EQUIPMENT CONTACTORS. REFER TO E7 SERIES DRAWINGS FOR REQUIREMENTS.
- REFER TO SHORT THROW PROJECTOR DETAIL ON E7 SERIES DRAWINGS FOR POWER AND DATA RACEWAY REQUIREMENTS. COORDINATE EXACT LOCATION WITH ARCHITECTURAL DRAWINGS AND TECHNOLOGY CONTRACTOR. WHERE NO CIRCUIT IS INDICATED, EXTEND EXISTING BRANCH CIRCUIT THAT PREVIOUSLY SERVED TELEVISION TO NEW PROJECTOR LOCATION.
- REFER TO TEACHER STATION RACEWAY DETAIL ON E7 SERIES DRAWINGS FOR POWER AND DATA RACEWAY REQUIREMENTS AT TEACHER STATION. COORDINATE EXACT LOCATION WITH ARCHITECTURAL DRAWINGS AND TECHNOLOGY CONTRACTOR. CIRCUIT RECEPTACLES AS INDICATED. WHERE NO BRANCH CIRCUIT IS INDICATED, EXTEND EXISTING BRANCH CIRCUIT THAT PREVIOUSLY SERVED TELEVISION TO NEW TEACHER STATION LOCATION.
- SMOKE DAMPER DUCT SMOKE DETECTOR SHALL BE PROVIDED BY ELECTRICAL CONTRACTOR. COORDINATE INSTALLATION WITH THE MECHANICAL CONTRACTOR SO THAT UPON DETECTION OF SMOKE, THE SUPPLY/RETURN FAN SERVING THE SPACE WILL SHUT DOWN. ELECTRICAL CONTRACTOR SHALL WIRE DUCT SMOKE DETECTOR TO FIRE ALARM SYSTEM, AND CIRCUIT DAMPER ACTUATOR FROM 120V CIRCUIT AS INDICATED. PROVIDE A 20A-1P SWITCH AT EACH ACTUATOR. CONTROL OF AIR HANDLING EQUIPMENT AND DAMPER ACTUATOR IS VIA THE FIRE ALARM CONTROL PANEL. PROVIDE ALL REQUIRED CIRCUIT, MODULES AND RELAYS. COORDINATE WORK WITH THE TEMPERATURE CONTROL CONTRACTOR AND FIRE ALARM VENDOR. DAMPER SHALL CLOSE UPON DETECTION OF SMOKE AND SHUT DOWN ASSOCIATED FAN. DAMPER SHALL ALSO CLOSE UPON NORMAL SHUT DOWN OF FAN. PROVIDE ALL CIRCUIT, MODULES, RELAYS, ETC. FOR A COMPLETE SYSTEM.
- PROVIDE 2-GANG JUNCTION BOX WITH 3/4" TO ABOVE ACCESSIBLE CEILING FOR CARD READER. PROVIDE CONDUIT WITH NYLON PULLSTRING. PROVIDE BLANK COVERPLATE AT JUNCTION BOX. COORDINATE EXACT LOCATION WITH ARCHITECTURAL TRADES.
- PROVIDE 2-GANG JUNCTION BOX WITH 3/4" TO ABOVE ACCESSIBLE CEILING FOR AIRPINK. PROVIDE CONDUIT WITH NYLON PULLSTRING. PROVIDE BLANK COVERPLATE AT JUNCTION BOX. COORDINATE EXACT LOCATION WITH ARCHITECTURAL TRADES.
- RELOCATED BACKBOARD MOTOR. CIRCUIT TO EXISTING BRANCH CIRCUIT AND CONTROLS. EXTEND CONDUIT AND WIRE AS REQUIRED TO NEW LOCATION.
- NEW BLEACHER MOTOR. PROVIDE 30A-3P DISCONNECT SWITCH AND BRANCH CIRCUIT AS INDICATED. COORDINATE REQUIREMENTS FOR CONTROLS WITH ARCHITECTURAL SPECIFICATIONS AND SELECTED MANUFACTURER AND PROVIDE JUNCTION BOXES, CONDUIT, AND CONTROL WIRING AS REQUIRED. COORDINATE LOCATION OF CONTROLS WITH OWNER.
- ALTERNATE E2: NEW GYMNASIUM SOUND SYSTEM. REFER TO DETAIL ON E7 SERIES DRAWINGS FOR SYSTEM REQUIREMENTS. PROVIDE NEW CABLEING AND ACCESSORIES AS REQUIRED FOR A COMPLETE SYSTEM.
- ALTERNATE E3: NEW CAFETERIA SOUND SYSTEM. REFER TO DETAIL ON E7 SERIES DRAWINGS FOR SYSTEM REQUIREMENTS. PROVIDE NEW CABLEING AND ACCESSORIES AS REQUIRED FOR A COMPLETE SYSTEM.
- RECEPTACLE TO BE MOUNTED ABOVE NEW ARCHITECTURAL PLATFORM. REFER TO ARCHITECTURAL ELEVATIONS FOR EXACT MOUNTING HEIGHT.
- NEW MUSIC RAMP TABLE SYSTEM. REFER TO DETAIL ON E7 SERIES DRAWINGS FOR SYSTEM REQUIREMENTS. PROVIDE NEW CABLEING AND ACCESSORIES AS REQUIRED FOR A COMPLETE SYSTEM. PROVIDE QUAD RECEPTACLE AT MUSIC CABINET LOCATION. CIRCUIT RECEPTACLE AS INDICATED.
- PROVIDE #3/0 CYPRESS GROUND FROM NEW FOUNDATION REINFORCING STEEL TO GROUNDING ELECTRODE SYSTEM AT SERVICE ENTRANCE.
- SAW OUT EXISTING CONCRETE FLOOR AS REQUIRED FOR NEW FLOOR BOXES. PATCH CONCRETE TO MATCH EXISTING ONCE INSTALLATION IS COMPLETE.
- PROVIDE BRANCH CIRCUIT AS INDICATED FOR NEW WRESTLING MAT HOST CONTROLLER. PROVIDE ADDITIONAL WIRING AS REQUIRED FROM HOST CONTROLLER TO HOST MOTOR AND LOW VOLTAGE CONTROL SWITCH. COORDINATE EXACT REQUIREMENTS WITH ARCHITECTURAL SPECIFICATIONS AND MAT HOST MANUFACTURER. COORDINATE EXACT LOCATION OF CONTROL SWITCH WITH OWNER PRIOR TO INSTALLATION.
- SCOREBOARD CONTROL BOX. PROVIDE 2-GANG EMPTY DATA BOX WITH 1" CONDUIT TO SCOREBOARD. PROVIDE NYLON PULLSTRING IN CONDUIT.
- SCOREBOARD CONTROLLER, MICROPHONE, AND 120V DUPLEX RECEPTACLE OUTLET. PROVIDE NEW SCOREBOARD CABLEING FROM WALL MOUNTED CONTROLLER TO NEW OUTLET ON FACE OF NEW BLEACHER. SAME FOR 120V OUTLET AND MICROPHONE. COORDINATE REQUIREMENTS WITH SCOREBOARD MANUFACTURER AND BLEACHER MANUFACTURER. PROVIDE BASKETBALLS, OUTLETS AND NEW CABLEING ROUTED THRU BROKE RINGS TO ALL BLEACHERS TO MOVE IN AND OUT. PROVIDE STRAIN RELIEF FOR ALL CABLES.
- EXTEND EXISTING VERTICAL SURFACE RACEWAY TO ABOVE CEILING. PROVIDE NEW SURFACE RACEWAY AND END PIECE AS REQUIRED. REWORK EXISTING CONDUITS AND BRANCH CIRCUITS TO ABOVE CEILING AS REQUIRED.
- PROVIDE FLIP-UP TABLE TOP USB RECEPTACLE LEGRAND DEGRADATION MODEL# DRP5114 IN TABLE. CIRCUIT AS INDICATED. DIRECTION ARROW INDICATES DIRECTION RECEPTACLES SHALL FACE WHEN OPEN. COORDINATE EXACT LOCATIONS WITH ARCHITECTURAL ELEVATIONS.
- REINSTALL EXISTING CEILING FAN. CLEAN FAN BLADES AND MOTOR HOUSING WITH DEGREASER PRIOR TO INSTALLATION. CIRCUIT TO EXISTING BRANCH CIRCUIT AND CONTROLS. EXTEND CONDUIT AND WIRE AS REQUIRED.



KEY PLAN

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pba@peterbasso.com 10/15/2014

FARMINGTON PUBLIC SCHOOLS - 2015 BOND

2018 PROJECTS

WARNER MIDDLE SCHOOL

WARNER MIDDLE SCHOOL

POWER PLAN - AREA 'A'

PRELIMINARY

DESIGN DEVELOPMENT

CONSTRUCTION

FINAL RECORD

DRAWN BY: JRD

CHECKED BY: GJZ

REVISIONS:

ADDENDUM NO. 1 08/24/18

CONSTRUCTION 08/28/18

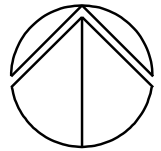
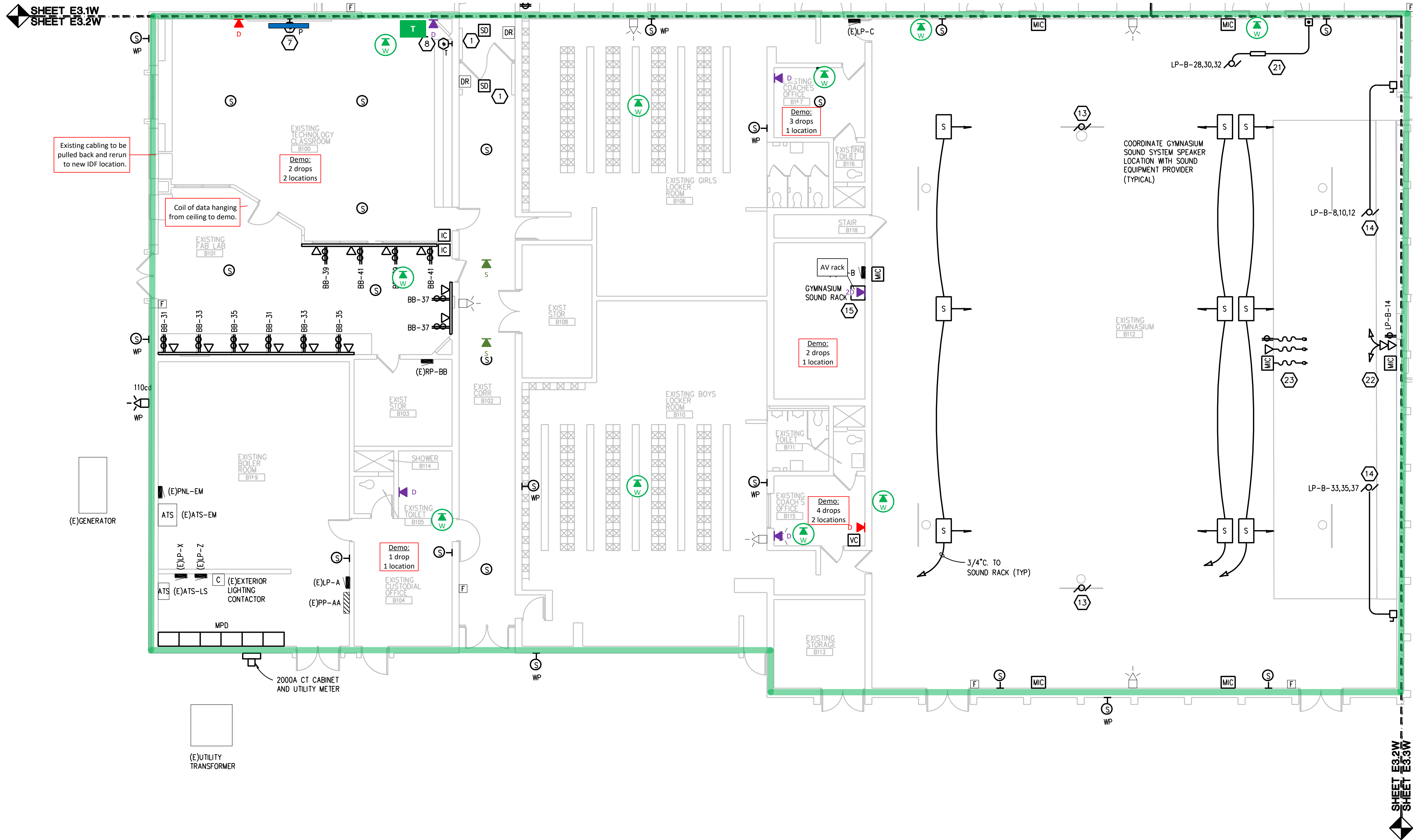
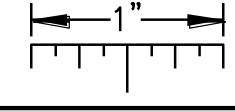
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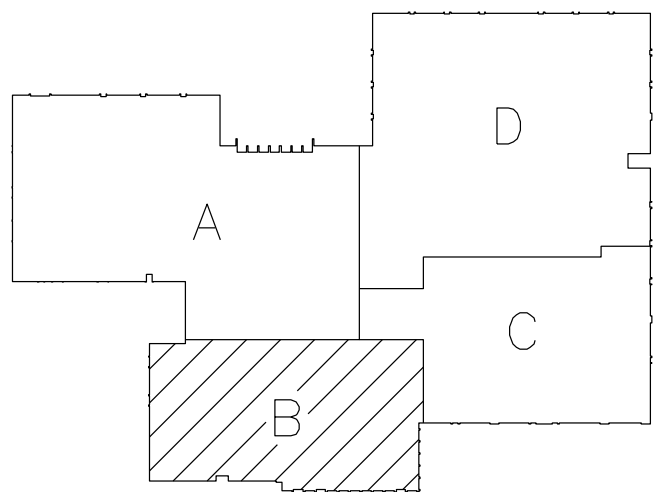
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THE FOLLOWING DIMENSION EQUALS ONE INCH WHEN PRINTED TO SCALE.



POWER PLAN - AREA 'B'

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



KEY PLAN

GENERAL NOTES:

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- INSTALL SYSTEMS SUCH THAT REQUIRED CLEARANCE AND SERVICE ACCESS SPACE IS PROVIDED AROUND ALL MECHANICAL AND ELECTRICAL EQUIPMENT, AND AROUND ANY COMPONENTS WHICH REQUIRE SERVICE ACCESS.
- COORDINATE AND PROVIDE ACCESS DOORS WITHIN INACCESSIBLE CEILING, SHAFT, AND CHASE AREAS FOR ALL COMPONENTS WHICH REQUIRE SERVICE ACCESS. REFER TO ARCHITECTURAL DRAWINGS FOR CEILING TYPES.
- PROVIDE SUPPLEMENTARY STEEL AS REQUIRED FOR THE PROPER SUPPORT OF ALL SYSTEMS.
- MOTOR CIRCUIT PROTECTION SHALL BE SIZED IN ACCORDANCE WITH MOTOR CIRCUIT SIZING SCHEDULES SHOWN ON "ELECTRICAL STANDARD SCHEDULES DRAWING" UNLESS OTHERWISE NOTED.
- COORDINATE THE MOUNTING HEIGHTS OF DEVICES WITH ARCHITECTURAL ELEVATIONS AND THE TRADES INSTALLING THE WORK.
- COORDINATE EXACT LOCATIONS OF ALL FLOOR BOXES WITH FINAL FURNITURE LAYOUT DRAWINGS.
- REFER TO MECHANICAL SCHEDULE SHEETS FOR ELECTRICAL REQUIREMENTS FOR MECHANICAL EQUIPMENT PROVIDE ALL CONNECTIONS, STARTERS, DISCONNECTS, ETC. AS REQUIRED BY SCHEDULES AND WHERE NOTED ELSEWHERE. VERIFY REQUIREMENTS OF ALL MECHANICAL EQUIPMENT WITH SHOP DRAWINGS SUBMITTALS. NOTIFY ENGINEER OF ANY CONFLICTS BETWEEN EQUIPMENT SUBMITTALS AND ELECTRICAL DRAWINGS. WHERE CIRCUIT SIZES ARE SHOWN ON THE ELECTRICAL DRAWINGS THAT DIFFER FROM WHAT IS INDICATED ON THE MECHANICAL SCHEDULES, PROVIDE THE CIRCUIT OF HIGHER AMPACITY.
- REFER TO TEMPERATURE CONTROLS SHEETS FOR REQUIRED MOTOR CONTROLLERS. PROVIDE ALL ACCESSORIES INDICATED.
- REFER TO LIGHTING CONTROL MATRIX FOR SWITCH TYPE, DIMMING WALL BOX CONTROLS, TO BE COMPATIBLE WITH CONTROLS AND LIGHT FIXTURES BEING DIMMED.
- ALL NEW FIRE ALARM DEVICES SHALL BE COMPATIBLE WITH NEW VOICE ENABLED FIRE ALARM SYSTEM. PROVIDE NECESSARY COMPONENTS, MODULES, ETC. AS REQUIRED FOR A FULLY FUNCTIONAL SYSTEM. NEW VOICE SYSTEM SHALL BE CROSS TIED TO EXISTING NATIONAL TIME AND SIGNAL NORMS/FIRE ALARM SYSTEM. RE-TEST AND CERTIFY EXISTING FIRE ALARM SYSTEM AT COMPLETION OF PROJECT.
- EXTEND EXISTING CIRCUIT GROUNDS AS REQUIRED PER NEC.
- UNLESS OTHERWISE INDICATED, NEW LIGHT FIXTURES SHALL BE CIRCUITED TO EXISTING LIGHTING BRANCH CIRCUIT SERVING SPACE. EXTEND CONDUIT AND WIRE AND REWIRE SWITCHED LUGS AS REQUIRED FOR NEW SWITCHING AS INDICATED. PROVIDE NEW 0-10V CABLEING AS REQUIRED. REFER TO LIGHTING CONTROL MATRIX ON E7 SERIES DRAWINGS FOR DIMMING REQUIREMENTS.
- CIRCUIT EXIT LIGHT FIXTURES UNSWITCHED TO HOT LEG OF EMERGENCY LIGHTING BRANCH CIRCUIT SERVING SPACE.

CONSTRUCTION KEY NOTES:

- REINSTALL EXISTING FIRE ALARM DEVICE. CONNECT TO EXISTING CIRCUITING. EXTEND CIRCUITING AS REQUIRED.
- RELOCATED PANEL. EXTEND EXISTING FEEDER (CONDUIT AND WIRE) AND BRANCH CIRCUITS (CONDUIT AND WIRE) TO NEW LOCATION. PROVIDE NEW UPDATED PANEL SCHEDULE AS REQUIRED.
- PROVIDE 120V CIRCUIT IN CEILING SPACE FOR DOOR SECURITY AND CONTROLS. REFER TO ARCHITECTURAL FLOOR PLANS, DOOR HARDWARE SCHEDULE ON ARCHITECTURAL DRAWINGS, ACCESS CONTROL SYSTEM SPECIFICATION SECTION, AND ACCESS CONTROL DOOR DIAGRAM(S) ON E7 SERIES DRAWINGS FOR RACEWAY AND BACK BOX REQUIREMENTS FOR DOOR OR BANK OF DOORS INDICATED. PROVIDE ALL RACEWAYS AND BACK BOXES REQUIRED. COORDINATE WITH DOOR HARDWARE CONTRACTOR. PROVIDE 1" CONDUIT FROM ARCHITECTURAL CASEWORK FOR DOOR RELEASE PUSH BUTTON TO ACCESSIBLE CEILING SPACE ABOVE DOORS FOR SECURITY DOOR RELEASE. COORDINATE LOCATION OF PUSH BUTTON WITH OWNER PRIOR TO INSTALLATION.
- PROVIDE NEW SUSPENDED OUTLET FOR NEW/RELOCATED KITCHEN EQUIPMENT. REFER TO SUSPENDED OUTLET DETAIL ON E7 SERIES DRAWINGS FOR REQUIREMENTS. CIRCUIT AS INDICATED.
- NEW ANSUL SYSTEM AND ANSUL SYSTEM PULLSTATION. REFER TO DETAILS ON E7 SERIES DRAWINGS FOR REQUIREMENTS.
- NEW KITCHEN EQUIPMENT CONTACTORS. REFER TO E7 SERIES DRAWINGS FOR REQUIREMENTS.
- REFER TO SHORT THROW PROJECTOR DETAIL ON E7 SERIES DRAWINGS FOR POWER AND DATA RACEWAY REQUIREMENTS AT NEW PROJECTOR. COORDINATE EXACT LOCATION WITH ARCHITECTURAL DRAWINGS AND TECHNOLOGY CONTRACTOR. WHERE NO CIRCUIT IS INDICATED, EXTEND EXISTING BRANCH CIRCUIT THAT PREVIOUSLY SERVED TELEVISION TO NEW PROJECTOR LOCATION.
- REFER TO TEACHER STATION RACEWAY DETAIL ON E7 SERIES DRAWINGS FOR POWER AND DATA RACEWAY REQUIREMENTS AT TEACHER STATION. COORDINATE EXACT LOCATION WITH ARCHITECTURAL DRAWINGS AND TECHNOLOGY CONTRACTOR. CIRCUIT RECEPTACLES AS INDICATED, WHERE NO BRANCH CIRCUIT IS INDICATED, EXTEND EXISTING BRANCH CIRCUIT THAT PREVIOUSLY SERVED TELEVISION TO NEW TEACHER STATION LOCATION.
- SMOKE DAMPER DUCT SMOKE DETECTOR SHALL BE PROVIDED BY ELECTRICAL CONTRACTOR. COORDINATE INSTALLATION WITH THE MECHANICAL CONTRACTOR SO THAT UPON DETECTION OF SMOKE, THE SUPPLY/RETURN FAN SERVING THE SPACE WILL SHUT DOWN. ELECTRICAL CONTRACTOR SHALL WIRE DUCT SMOKE DETECTOR TO FIRE ALARM SYSTEM, AND CIRCUIT DAMPER ACTUATOR FROM 120V CIRCUIT AS INDICATED. PROVIDE A 20A-1P SWITCH AT EACH ACTUATOR. CONTROL OF AIR HANDLING EQUIPMENT AND DAMPER ACTUATOR IS VIA THE FIRE ALARM CONTROL PANEL. PROVIDE ALL REQUIRED CONTROL MODULES AND RELAYS. COORDINATE WORK WITH THE TEMPERATURE CONTROL CONTRACTOR AND FIRE ALARM VENDOR. DAMPER SHALL CLOSE UPON DETECTION OF SMOKE AND SHUT DOWN ASSOCIATED AHU. DAMPER SHALL ALSO CLOSE UPON NORMAL SHUT DOWN OF AHU. PROVIDE ALL CONTROL MODULES, RELAYS, ETC FOR A COMPLETE SYSTEM.
- PROVIDE 2-GANG JUNCTION BOX WITH 3/4" TC TO ABOVE ACCESSIBLE CEILING FOR CARD READER. PROVIDE CONDUIT WITH NYLON PULLSTRING. PROVIDE BLANK COVERPLATE AT JUNCTION BOX. COORDINATE EXACT LOCATION WITH ARCHITECTURAL TRADES.
- PROVIDE 2-GANG JUNCTION BOX WITH 3/4" TC TO ABOVE ACCESSIBLE CEILING FOR DOOR OPERATOR PUSHPAD. PROVIDE CONDUIT WITH NYLON PULLSTRING. PROVIDE BLANK COVERPLATE AT JUNCTION BOX. COORDINATE EXACT LOCATION WITH ARCHITECTURAL TRADES.
- PROVIDE 2-GANG JUNCTION BOX WITH 3/4" TC TO ABOVE ACCESSIBLE CEILING FOR APHONE. PROVIDE CONDUIT WITH NYLON PULLSTRING. PROVIDE BLANK COVERPLATE AT JUNCTION BOX. COORDINATE EXACT LOCATION WITH ARCHITECTURAL TRADES.
- RELOCATED BACKBOARD MOTOR. CIRCUIT TO EXISTING BRANCH CIRCUIT AND CONTROLS. EXTEND CONDUIT AND WIRE AS REQUIRED TO NEW LOCATION.
- NEW BLEACHER MOTOR. PROVIDE 30A-3P DISCONNECT SWITCH AND BRANCH CIRCUIT AS INDICATED. COORDINATE REQUIREMENTS FOR CONTROLS WITH ARCHITECTURAL SPECIFICATIONS AND SELECTED MANUFACTURER AND PROVIDE JUNCTION BOXES, CONDUIT, AND CONTROL WIRING AS REQUIRED. COORDINATE LOCATION OF CONTROLS WITH OWNER.
- ALTERNATE E2: NEW GYMNASIUM SOUND SYSTEM. REFER TO DETAIL ON E7 SERIES DRAWINGS FOR SYSTEM REQUIREMENTS. PROVIDE NEW CABLEING AND ACCESSORIES AS REQUIRED FOR A COMPLETE SYSTEM.
- ALTERNATE E3: NEW CAFETERIA SOUND SYSTEM. REFER TO DETAIL ON E7 SERIES DRAWINGS FOR SYSTEM REQUIREMENTS. PROVIDE NEW CABLEING AND ACCESSORIES AS REQUIRED FOR A COMPLETE SYSTEM.
- RECEPTACLE TO BE MOUNTED ABOVE NEW ARCHITECTURAL PLATFORM. REFER TO ARCHITECTURAL ELEVATIONS FOR EXACT MOUNTING HEIGHT.
- NEW MUSIC ROOM SOUND SYSTEM. REFER TO DETAIL ON E7 SERIES DRAWINGS FOR SYSTEM REQUIREMENTS. PROVIDE NEW CABLEING AND ACCESSORIES AS REQUIRED FOR A COMPLETE SYSTEM. PROVIDE LOAD RECEPTACLE AT MUSIC CABINET LOCATION. CIRCUIT RECEPTACLE AS INDICATED.
- PROVIDE #10 COPPER GROUND FROM NEW FOUNDATION REINFORCING STEEL TO GROUNDING ELECTRODE SYSTEM AT SERVICE ENTRANCE.
- SAW CUT EXISTING CONCRETE FLOOR AS REQUIRED FOR NEW FLOOR BOXES. PATCH CONCRETE TO MATCH EXISTING ONCE INSTALLATION IS COMPLETE.
- PROVIDE BRANCH CIRCUIT AS INDICATED FOR NEW WRESTLING MAT HOST CONTROLLER. PROVIDE ADDITIONAL WIRING AS REQUIRED FROM HOST CONTROLLER TO HOST MOTOR AND LOW VOLTAGE CONTROL SWITCH. COORDINATE EXACT REQUIREMENTS WITH ARCHITECTURAL SPECIFICATIONS AND MAT HOST MANUFACTURER. COORDINATE EXACT LOCATION OF CONTROL SWITCH WITH OWNER PRIOR TO INSTALLATION.
- SCOREBOARD CONTROL BOX. PROVIDE 2-GANG EMPTY DATA BOX WITH 1" CONDUIT TO SCOREBOARD. PROVIDE NYLON PULLSTRING IN CONDUIT.
- SCOREBOARD CONTROLLER, MICROPHONE, AND 120V DUPLEX RECEPTACLE OUTLET. PROVIDE NEW SCOREBOARD CABLEING FROM WALL MOUNTED CONTROLLER TO NEW OUTLET ON FACE OF NEW BLEACHER. SAME FOR 120V OUTLET AND MICROPHONE. COORDINATE REQUIREMENTS WITH SCOREBOARD MANUFACTURER AND BLEACHER MANUFACTURER. PROVIDE BACKBOXES, OUTLETS AND NEW CABLEING ROUTED THRU BROIL RINGS TO ALL BLEACHERS TO MOVE IN AND OUT. PROVIDE STRAIN RELIEF FOR ALL CABLES.
- EXTEND EXISTING VERTICAL SURFACE RACEWAY 1" ABOVE CEILING. PROVIDE NEW SURFACE RACEWAY AND END PIECE AS REQUIRED. REWORK EXISTING CONDUITS AND BRANCH CIRCUITS TO ABOVE CEILING AS REQUIRED.
- PROVIDE FLIP-UP TABLE TOP USB RECEPTACLE LEGRAND DEQUORUM MODEL 06PFSU IN TABLE. CIRCUIT AS INDICATED. DIRECTION ARROW INDICATES DIRECTION RECEPTACLES SHALL FACE WHEN OPEN. COORDINATE EXACT LOCATIONS WITH ARCHITECTURAL ELEVATIONS.
- REINSTALL EXISTING CEILING FAN. CLEAN FAN BLADES AND MOTOR HOUSING WITH DETERGENT PRIOR TO INSTALLATION. CIRCUIT TO EXISTING BRANCH CIRCUIT AND CONTROLS. EXTEND CONDUIT AND WIRE AS REQUIRED.

FARMINGTON PUBLIC SCHOOLS - 2015 BOND
2018 PROJECTS
WARNER MIDDLE SCHOOL

WARNER MIDDLE SCHOOL

POWER PLAN - AREA 'B'

PRELIMINARY ☐
DESIGN DEVELOPMENT ☐
CONSTRUCTION ☒
FINAL RECORD ☐

DRAWN BY: JRD
CHECKED BY: GJZ

REVISIONS:
ADDENDUM NO. 1 08/24/18
CONSTRUCTION 08/28/18

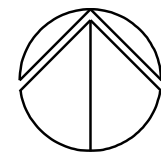
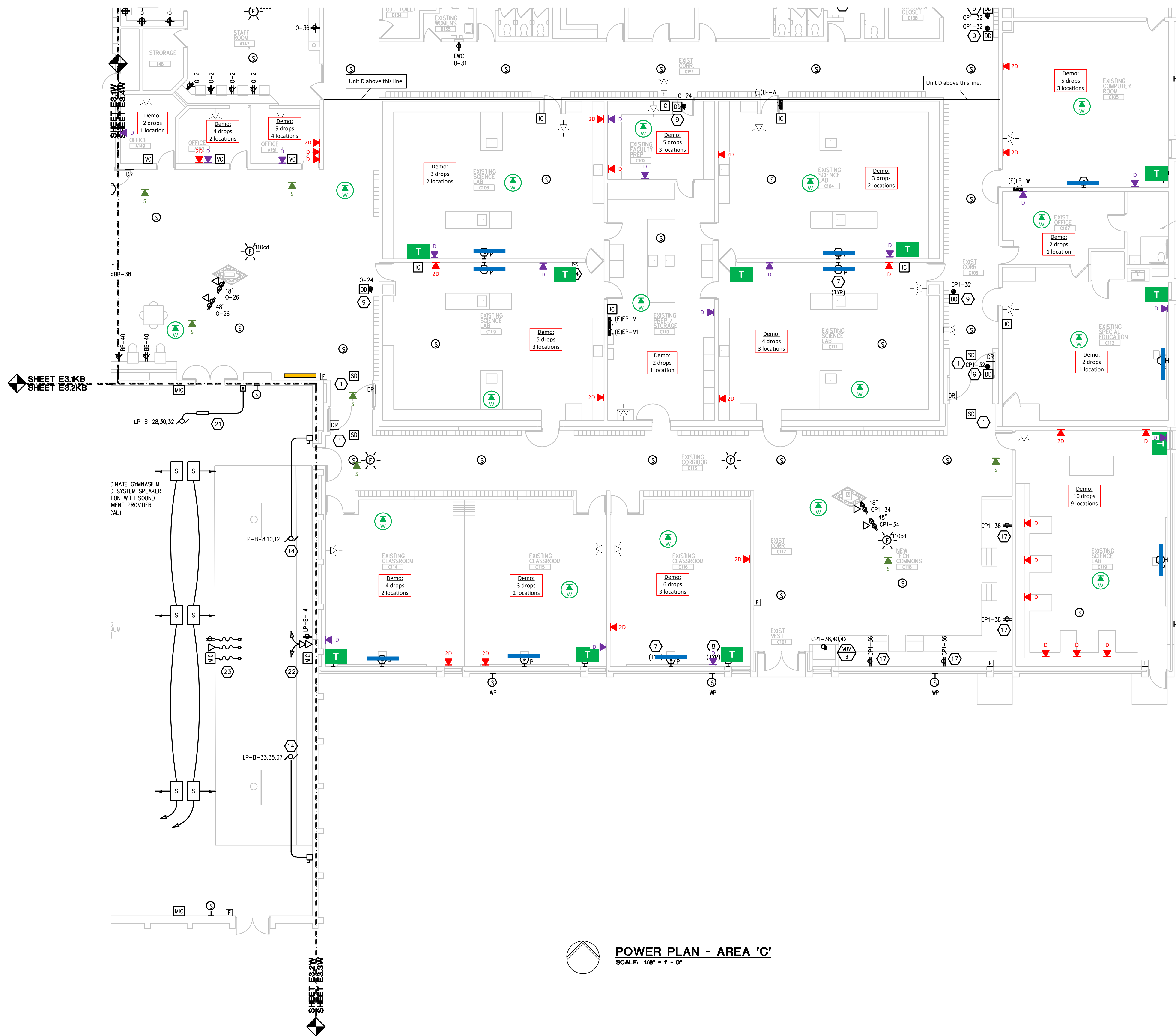
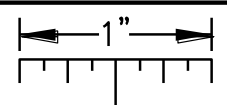
DATE: 08-08-2018

SHEET NO:

E3.2W

JOBNO: 171712B

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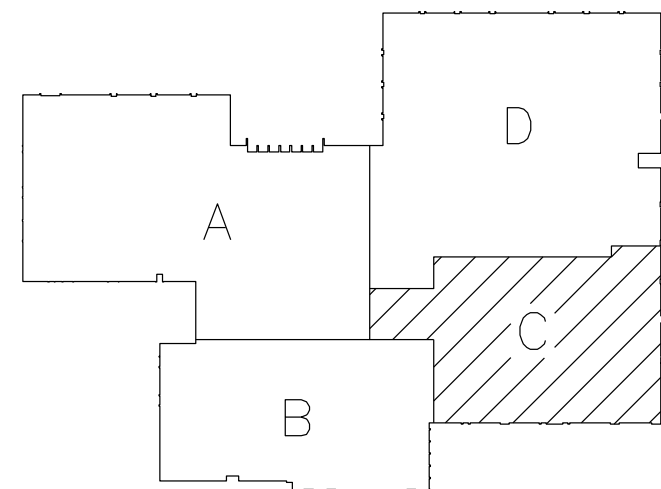
POWER PLAN - AREA 'C'
SCALE: 1/8" = 1' - 0"

GENERAL NOTES:

- THESE DRAWINGS REPRESENT THE GENERAL EXTENT AND ARRANGEMENT OF SYSTEMS, BUT ARE NOT TO BE CONSIDERED FABRICATION DRAWINGS. COORDINATE WITH OTHER TRADES, AND PROVIDE EACH SYSTEM COMPLETE, INCLUDING ALL NECESSARY COMPONENTS, FITTINGS, AND OFFSETS.
- INSTALL SYSTEMS SUCH THAT REQUIRED CLEARANCE AND SERVICE ACCESS SPACE IS PROVIDED AROUND ALL MECHANICAL AND ELECTRICAL EQUIPMENT, AND AROUND ANY COMPONENTS WHICH REQUIRE SERVICE ACCESS.
- COORDINATE AND PROVIDE ACCESS DOORS WITHIN INACCESSIBLE CEILING, SHAFT, AND CHASE AREAS FOR ALL COMPONENTS WHICH REQUIRE SERVICE ACCESS. REFER TO ARCHITECTURAL DRAWINGS FOR CEILING TYPES.
- PROVIDE SUPPLEMENTARY STEEL AS REQUIRED FOR THE PROPER SUPPORT OF ALL SYSTEMS.
- MOTOR CIRCUIT PROTECTION SHALL BE SIZED IN ACCORDANCE WITH MOTOR CIRCUIT SIZING SCHEDULES SHOWN ON "ELECTRICAL STANDARD SCHEDULES DRAWING" UNLESS OTHERWISE NOTED.
- COORDINATE THE MOUNTING HEIGHTS OF DEVICES WITH ARCHITECTURAL ELEVATIONS AND THE TRADES INSTALLING THE WORK.
- COORDINATE EXACT LOCATIONS OF ALL FLOOR BOXES WITH FINAL FURNITURE LAYOUT DRAWINGS.
- REFER TO MECHANICAL SCHEDULE SHEETS FOR ELECTRICAL REQUIREMENTS FOR MECHANICAL EQUIPMENT. PROVIDE ALL CONNECTIONS, STARTERS, DISCONNECTS, ETC. AS REQUIRED BY SCHEDULES AND WHERE NOTED ELSEWHERE. VERIFY REQUIREMENTS OF ALL MECHANICAL EQUIPMENT WITH SHOP DRAWINGS SUBMITTALS. NOTIFY OWNER OF ANY CONFLICTS BETWEEN EQUIPMENT SUBMITTALS AND ELECTRICAL DRAWINGS. WHERE CIRCUIT SIZES ARE SHOWN ON THE ELECTRICAL DRAWINGS THAT DIFFER FROM WHAT IS INDICATED ON THE MECHANICAL SCHEDULES, PROVIDE THE CIRCUIT OF HIGHER AMPACITY.
- REFER TO TEMPERATURE CONTROLS SHEETS FOR REQUIRED MOTOR CONTROLLERS. PROVIDE ALL ACCESSORIES INDICATED.
- REFER TO LIGHTING CONTROL MATRIX FOR SWITCH TYPE, DIMMING WALL BOX CONTROL, TO BE COMPATIBLE WITH CONTROLS AND LIGHT FIXTURE BEING DIMMED.
- ALL NEW FIRE ALARM DEVICES SHALL BE COMPATIBLE WITH NEW VOICE ENABLED FIRE ALARM SYSTEM. PROVIDE NECESSARY COMPONENTS, MODULES, ETC. AS REQUIRED FOR A FULLY FUNCTIONAL SYSTEM. NEW VOICE SYSTEM SHALL BE CROSS TIED TO EXISTING NATURAL TIME AND SIGNAL HORN/STROBE FIRE ALARM SYSTEM. RE-TEST AND CERTIFY EXISTING FIRE ALARM SYSTEM AT COMPLETION OF PROJECT.
- EXTEND EXISTING CIRCUIT GROUNDS AS REQUIRED PER NEC.
- UNLESS OTHERWISE INDICATED, NEW LIGHT FIXTURES SHALL BE CIRCUITED TO EXISTING LIGHTING BRANCH CIRCUIT SERVING SPACE. EXTEND CONDUIT AND WIRE AND REVERSE SWITCHED LEG AS REQUIRED FOR NEW SWITCHING AS INDICATED. PROVIDE NEW 0-10V CABLES AS REQUIRED. REFER TO LIGHTING CONTROL MATRIX ON E0 SERIES DRAWINGS FOR DIMMING REQUIREMENTS.
- CIRCUIT EXIT LIGHT FIXTURES UNSWITCHED TO HOT LEG OF EMERGENCY LIGHTING BRANCH CIRCUIT SERVING SPACE.

CONSTRUCTION KEY NOTES:

- REINSTALL EXISTING FIRE ALARM DEVICE, CONNECT TO EXISTING CIRCUITING, EXTEND CIRCUITING AS REQUIRED.
- RELOCATED PANEL, EXTEND EXISTING FEEDER (CONDUIT AND WIRE) AND BRANCH CIRCUITS (CONDUIT AND WIRE) TO NEW LOCATION. PROVIDE NEW UPDATED PANEL SCHEDULE AS REQUIRED.
- PROVIDE 120V CIRCUIT IN CEILING SPACE FOR DOOR SECURITY AND CONTROLS. REFER TO ARCHITECTURAL FLOOR PLANS, DOOR HARDWARE SCHEDULE ON ARCHITECTURAL DRAWINGS, ACCESS CONTROL SYSTEM SPECIFICATION SECTION, AND ACCESS CONTROL DOOR DIAGRAMS ON E7 SERIES DRAWINGS FOR RACEWAY AND BACK BOX REQUIREMENTS FOR DOOR OR BANK OF DOORS INDICATED. PROVIDE ALL RACEWAYS AND BACK BOXES REQUIRED. COORDINATE WITH DOOR HARDWARE CONTRACTOR. PROVIDE 1" CONDUIT FROM ARCHITECTURAL CASEWORK FOR DOOR RELEASE PUSH BUTTON TO ACCESSIBLE CEILING SPACE ABOVE DOORS FOR SECURITY DOOR RELEASE. COORDINATE LOCATION OF PUSH BUTTON WITH OWNER PRIOR TO INSTALLATION.
- PROVIDE NEW SUSPENDED OUTLET FOR NEW/RELOCATED KITCHEN EQUIPMENT. REFER TO SUSPENDED OUTLET DETAIL ON E7 SERIES DRAWINGS FOR REQUIREMENTS. CIRCUIT AS INDICATED.
- NEW ANSI SYSTEM AND ANSI SYSTEM PULLSTATION. REFER TO DETAILS ON E7 SERIES DRAWINGS FOR REQUIREMENTS.
- NEW KITCHEN EQUIPMENT CONTRACTORS. REFER TO E7 SERIES DRAWINGS FOR REQUIREMENTS.
- REFER TO SHORT THROW PROJECTOR DETAIL ON E7 SERIES DRAWINGS FOR POWER AND DATA RACEWAY REQUIREMENTS AT NEW PROJECTOR. COORDINATE EXACT LOCATION WITH ARCHITECTURAL DRAWINGS AND TECHNOLOGY CONTRACTOR. WHERE NO CIRCUIT IS INDICATED, EXTEND EXISTING BRANCH CIRCUIT THAT PREVIOUSLY SERVED TELEVISION TO NEW PROJECTOR LOCATION.
- REFER TO TEACHER STATION RACEWAY DETAIL ON E7 SERIES DRAWINGS FOR POWER AND DATA RACEWAY REQUIREMENTS AT TEACHER STATION. COORDINATE EXACT LOCATION WITH ARCHITECTURAL DRAWINGS AND TECHNOLOGY CONTRACTOR. CIRCUIT RECEPTACLES AS INDICATED. WHERE NO BRANCH CIRCUIT IS INDICATED, EXTEND EXISTING BRANCH CIRCUIT THAT PREVIOUSLY SERVED TELEVISION TO NEW TEACHER STATION LOCATION.
- SMOKE DAMPER DUCT SMOKE DETECTOR SHALL BE PROVIDED BY ELECTRICAL CONTRACTOR. COORDINATE INSTALLATION WITH THE MECHANICAL CONTRACTOR SO THAT UPON DETECTION OF SMOKE, THE SUPPLY/RETURN FAN SERVING THE SPACE WILL SHUT DOWN. ELECTRICAL CONTRACTOR SHALL WIRE DUCT SMOKE DETECTOR TO FIRE ALARM SYSTEM, AND CIRCUIT DAMPER ACTUATOR FROM 120V CIRCUIT AS INDICATED. PROVIDE A 20A-1P SWITCH AT EACH ACTUATOR CONTROL. COORDINATE WORK WITH THE TEMPERATURE CONTROL CONTRACTOR AND FIRE ALARM VENDOR. DAMPER SHALL CLOSE UPON DETECTION OF SMOKE AND SHUT DOWN ASSOCIATED AHU. DAMPER SHALL ALSO CLOSE UPON NORMAL SHUT DOWN OF AHU. PROVIDE ALL CONTROL MODULES, RELAYS, ETC. FOR A COMPLETE SYSTEM.
- PROVIDE 2-GANG JUNCTION BOX WITH 3/4" TO ABOVE ACCESSIBLE CEILING FOR CARD READER. PROVIDE CONDUIT WITH NYLON PULLSTRING, PROVIDE BLANK COVERPLATE AT JUNCTION BOX. COORDINATE EXACT LOCATION WITH ARCHITECTURAL TRADES.
- PROVIDE 2-GANG JUNCTION BOX WITH 3/4" TO ABOVE ACCESSIBLE CEILING FOR APHONE. PROVIDE CONDUIT WITH NYLON PULLSTRING, PROVIDE BLANK COVERPLATE AT JUNCTION BOX. COORDINATE EXACT LOCATION WITH ARCHITECTURAL TRADES.
- PROVIDE 2-GANG JUNCTION BOX WITH 3/4" TO ABOVE ACCESSIBLE CEILING FOR APHONE. PROVIDE CONDUIT WITH NYLON PULLSTRING, PROVIDE BLANK COVERPLATE AT JUNCTION BOX. COORDINATE EXACT LOCATION WITH ARCHITECTURAL TRADES.
- RELOCATED BACKBOARD MOTOR. CIRCUIT TO EXISTING BRANCH CIRCUIT AND CONTROLS. EXTEND CONDUIT AND WIRE AS REQUIRED TO NEW LOCATION.
- NEW BLEACHER MOTOR. PROVIDE 30A-3P DISCONNECT SWITCH AND BRANCH CIRCUIT AS INDICATED. COORDINATE REQUIREMENTS FOR CONTROLS WITH ARCHITECTURAL SPECIFICATIONS AND SELECTED MANUFACTURER AND PROVIDE JUNCTION BOXES, CONDUIT, AND CONTROL WIRING AS REQUIRED. COORDINATE LOCATION OF CONTROLS WITH OWNER.
- ALTERNATE E2: NEW GYMNASIUM SOUND SYSTEM. REFER TO DETAIL ON E7 SERIES DRAWINGS FOR SYSTEM REQUIREMENTS. PROVIDE NEW CABLES AND ACCESSORIES AS REQUIRED FOR A COMPLETE SYSTEM.
- ALTERNATE E3: NEW CAFETERIA SOUND SYSTEM. REFER TO DETAIL ON E7 SERIES DRAWINGS FOR SYSTEM REQUIREMENTS. PROVIDE NEW CABLES AND ACCESSORIES AS REQUIRED FOR A COMPLETE SYSTEM.
- RECEPTACLE TO BE MOUNTED ABOVE NEW ARCHITECTURAL PLATFORM. REFER TO ARCHITECTURAL ELEVATIONS FOR EXACT MOUNTING HEIGHT.
- NEW MUSIC ROOM SOUND SYSTEM. REFER TO DETAIL ON E7 SERIES DRAWINGS FOR SYSTEM REQUIREMENTS. PROVIDE NEW CABLES AND ACCESSORIES AS REQUIRED FOR A COMPLETE SYSTEM. PROVIDE DIAPHRAGM RECEPTACLE AT MUSIC CABINET LOCATION. CIRCUIT RECEPTACLE AS INDICATED.
- PROVIDE #3/0 COPPER GROUND FROM NEW FOUNDATION REINFORCING STEEL TO GROUNDING ELECTRODE SYSTEM AT SERVICE ENTRANCE.
- SAW CUT EXISTING CONCRETE FLOOR AS REQUIRED FOR NEW FLOOR BOXES. PATCH CONCRETE TO MATCH EXISTING ONCE INSTALLATION IS COMPLETE.
- PROVIDE BRANCH CIRCUIT AS INDICATED FOR NEW WRESTLING MAT HOST CONTROLLER. PROVIDE ADDITIONAL WIRING AS REQUIRED FROM HOST CONTROLLER TO HOST MOTOR AND LOW VOLTAGE CONTROL SWITCH. COORDINATE EXACT REQUIREMENTS WITH ARCHITECTURAL SPECIFICATIONS AND MAT HOST MANUFACTURER. COORDINATE EXACT LOCATION OF CONTROL SWITCH WITH OWNER PRIOR TO INSTALLATION.
- SCOREBOARD CONTROL BOX. PROVIDE 2-GANG EMPTY DATA BOX WITH 1" CONDUIT TO SCOREBOARD. PROVIDE NYLON PULLSTRING IN CONDUIT.
- SCOREBOARD CONTROLLER, MICROPHONE, AND 120V DUPLEX RECEPTACLE OUTLET. PROVIDE NEW SCOREBOARD CABLES FROM WALL MOUNTED CONTROLLER TO NEW OUTLET IN FACE OF NEW BLEACHER. SAME FOR 120V OUTLET AND MICROPHONE. COORDINATE REQUIREMENTS WITH SCOREBOARD MANUFACTURER AND BLEACHER MANUFACTURER. PROVIDE BACKBOXES, OUTLETS AND NEW CABLES ROUTED THRU BRIDGE RINGS TO ALL BLEACHERS TO MOVE IN AND OUT. PROVIDE STRAIN RELIEF FOR ALL CABLES.
- EXTEND EXISTING VERTICAL SURFACE RACEWAY TO ABOVE CEILING. PROVIDE NEW SURFACE RACEWAY AND END PRICES AS REQUIRED. REWORK EXISTING CONDUITS AND BRANCH CIRCUITS TO ABOVE CEILING AS REQUIRED.
- PROVIDE FLIP-UP TABLE TOP USB RECEPTACLE LEGRAND DEQUORUM MODEL J00FF5U IN TABLE. CIRCUIT AS INDICATED. DIRECTION ARROW INDICATES DIRECTION RECEPTACLES SHALL FACE WHEN OPEN. COORDINATE EXACT LOCATIONS WITH ARCHITECTURAL ELEVATIONS.
- REINSTALL EXISTING CEILING FAN. CLEAN FAN BLADES AND MOTOR HOUSING WITH DETERGENT PRIOR TO INSTALLATION. CIRCUIT TO EXISTING BRANCH CIRCUIT AND CONTROLS. EXTEND CONDUIT AND WIRE AS REQUIRED.



KEY PLAN

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FARMINGTON PUBLIC SCHOOLS - 2015 BOND

2018 PROJECTS

WARNER MIDDLE SCHOOL

WARNER MIDDLE SCHOOL

POWER PLAN - AREA 'C'

PRELIMINARY

DESIGN DEVELOPMENT

CONSTRUCTION

FINAL RECORD

DRAWN BY: JRD

CHECKED BY: GJZ

REVISIONS

CONSTRUCTION 09/28/18

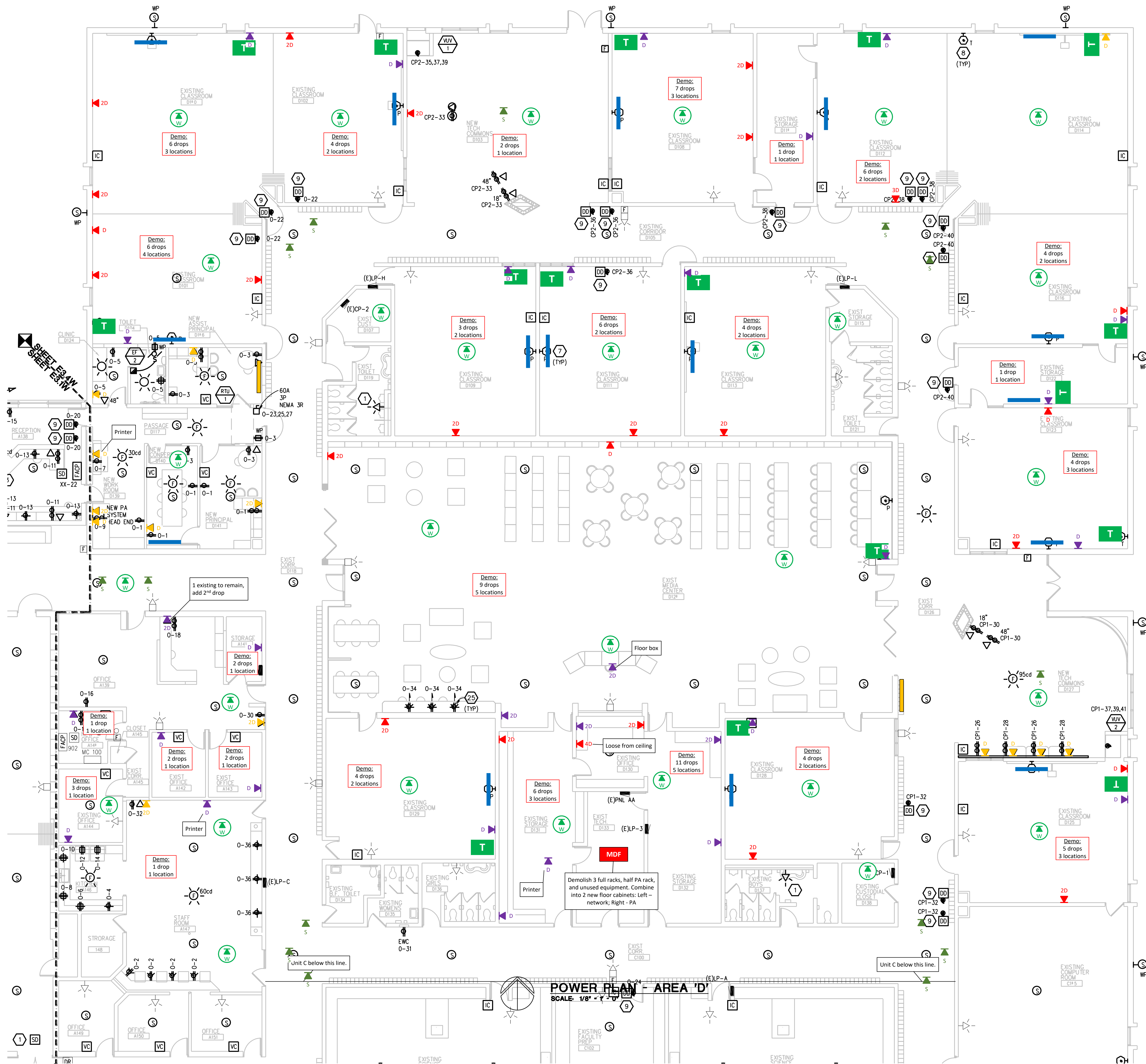
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JOB NO: 171712B

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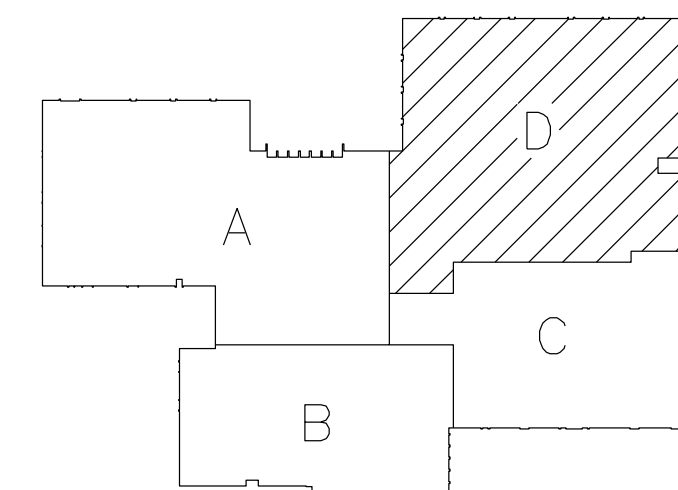


GENERAL NOTES:

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- COORDINATE AND PROVIDE ACCESS DOORS WITHIN ACCESSIBLE CEILING, SHAFT, AND CHASE AREAS FOR ALL COMPONENTS WHICH REQUIRE SERVICE ACCESS. REFER TO ARCHITECTURAL DRAWINGS FOR CEILING TYPES.
- PROVIDE SUPPLEMENTARY STEEL AS REQUIRED FOR THE PROPER SUPPORT OF ALL SYSTEMS.
- MOTOR CIRCUIT PROTECTION SHALL BE SIZED IN ACCORDANCE WITH MOTOR CIRCUIT SIZING SCHEDULES SHOWN ON ELECTRICAL STANDARD SCHEDULES DRAWING UNLESS OTHERWISE NOTED.
- COORDINATE THE MOUNTING HEIGHTS OF DEVICES WITH ARCHITECTURAL ELEVATIONS AND THE TRADES INSTALLING THE WORK.
- COORDINATE EXACT LOCATIONS OF ALL FLOOR BOXES WITH FINAL FURNITURE LAYOUT DRAWINGS.
- REFER TO MECHANICAL SCHEDULE SHEETS FOR ELECTRICAL REQUIREMENTS FOR MECHANICAL EQUIPMENT. PROVIDE ALL CONNECTIONS, STARTERS, DISCONNECTS, ETC. AS REQUIRED BY SCHEDULES AND WHERE NOTED ELSEWHERE. VERIFY REQUIREMENTS OF ALL MECHANICAL EQUIPMENT WITH SHOP DRAWINGS SUBMITTALS. NOTIFY ENGINEER OF ANY CONFLICTS BETWEEN EQUIPMENT SUBMITTALS AND ELECTRICAL DRAWINGS. WHERE CIRCUIT SIZES ARE SHOWN ON THE ELECTRICAL DRAWINGS THAT DIFFER FROM WHAT IS INDICATED ON THE MECHANICAL SCHEDULES, PROVIDE THE CIRCUIT OF HIGHER AMPACITY.
- REFER TO TEMPERATURE CONTROLS SHEETS FOR REQUIRED MOTOR CONTROLLERS. PROVIDE ALL ACCESSORIES INDICATED.
- REFER TO LIGHTING CONTROL MATRIX FOR SWITCH TYPE, DIMMING WALL BOX, CONTROL TO BE COMPATIBLE WITH CONTROLS AND LIGHT FIXTURE BEING DIMMED.
- ALL NEW FIRE ALARM DEVICES SHALL BE COMPATIBLE WITH NEW VOICE ENABLED FIRE ALARM SYSTEM. PROVIDE NECESSARY COMPONENTS, MODULES, ETC. AS REQUIRED FOR A FULLY FUNCTIONAL SYSTEM. NEW VOICE SYSTEM SHALL BE CROSS TIED TO EXISTING NATIONAL TIME AND SIGNAL HORN/STROBE FIRE ALARM SYSTEM. RE-TEST AND CERTIFY EXISTING FIRE ALARM SYSTEM AT COMPLETION OF PROJECT.
- EXTEND EXISTING CIRCUIT GROUNDS AS REQUIRED PER NEC.
- UNLESS OTHERWISE INDICATED, NEW LIGHT FIXTURES SHALL BE CIRCUITED TO EXISTING LIGHTING BRANCH CIRCUIT SERVING SPACE. EXTEND CONDUIT AND WIRE AND REVERSE SWITCHED LEC AS REQUIRED FOR NEW SWITCHING. PROVIDE NEW 0-10V CABLEING AS REQUIRED. REFER TO LIGHTING CONTROL MATRIX ON E7 SERIES DRAWINGS FOR DIMMING REQUIREMENTS.
- CIRCUIT EXIST LIGHT FIXTURES UNWITNESSED TO WFT LEG OF EMERGENCY LIGHTING BRANCH CIRCUIT SERVING SPACE.

CONSTRUCTION KEY NOTES:

- REINSTALL EXISTING FIRE ALARM DEVICE. CONNECT TO EXISTING CIRCUITING. EXTEND CIRCUITING AS REQUIRED.
- RELOCATED PANEL. EXTEND EXISTING FEEDER (CONDUIT AND WIRE) AND BRANCH CIRCUITS (CONDUIT AND WIRE) TO NEW LOCATION. PROVIDE NEW UPDATED PANEL SCHEDULE AS REQUIRED.
- PROVIDE 120V CIRCUIT IN CEILING SPACE FOR DOOR SECURITY AND CONTROLS. REFER TO ARCHITECTURAL FLOOR PLANS, DOOR HARDWARE SCHEDULE ON ARCHITECTURAL DRAWINGS, ACCESS CONTROL SYSTEM SPECIFICATION SECTION, AND ACCESS CONTROL DOOR DIAGRAM(S) ON E7 SERIES DRAWINGS FOR RACEWAY AND BACK BOX REQUIREMENTS FOR DOOR OR BANK OF DOORS INDICATED. PROVIDE ALL RACEWAYS AND BACK BOXES REQUIRED. COORDINATE WITH DOOR HARDWARE CONTRACTOR. PROVIDE 1" CONDUIT FROM ARCHITECTURAL CASEWORK FOR DOOR RELEASE PUSH BUTTON TO ACCESSIBLE CEILING SPACE ABOVE DOORS FOR SECURITY DOOR RELEASE. COORDINATE LOCATION OF PUSH BUTTON WITH OWNER PRIOR TO INSTALLATION.
- PROVIDE NEW SUSPENDED OUTLET FOR NEW/RELOCATED KITCHEN EQUIPMENT. REFER TO SUSPENDED OUTLET DETAIL ON E7 SERIES DRAWINGS FOR REQUIREMENTS. CIRCUIT AS INDICATED.
- NEW ANSUL SYSTEM AND ANSUL SYSTEM PULLSTATION. REFER TO DETAILS ON E7 SERIES DRAWINGS FOR REQUIREMENTS.
- NEW KITCHEN EQUIPMENT CONTACTORS. REFER TO E7 SERIES DRAWINGS FOR REQUIREMENTS.
- REFER TO SHORT THROW PROJECTOR DETAIL ON E7 SERIES DRAWINGS FOR POWER AND DATA RACEWAY REQUIREMENTS AT TEACHER STATION. COORDINATE EXACT LOCATION WITH ARCHITECTURAL DRAWINGS AND TECHNOLOGY CONTRACTOR. WHERE NO CIRCUIT IS INDICATED, EXTEND EXISTING BRANCH CIRCUIT THAT PREVIOUSLY SERVED TELEVISION TO NEW PROJECTOR LOCATION.
- SMOKE DAMPER DUCT SMOKE DETECTOR SHALL BE PROVIDED BY ELECTRICAL CONTRACTOR. COORDINATE INSTALLATION WITH THE MECHANICAL CONTRACTOR SO THAT UPON DETECTION OF SMOKE, THE SUPPLY/RETURN FAN SERVING THE SPACE WILL SHUT DOWN. ELECTRICAL CONTRACTOR SHALL WIRE DUCT SMOKE DETECTOR TO FIRE ALARM SYSTEM, AND CIRCUIT DAMPER ACTUATOR FROM 120V CIRCUIT AS INDICATED. PROVIDE A 20A-1P SWITCH AT EACH ACTUATOR. CONTROL OF AIR HANDLING EQUIPMENT AND DAMPER ACTUATOR IS VIA THE FIRE ALARM CONTROL PANEL. PROVIDE ALL REQUIRED CONTROL MODULES AND RELAYS. COORDINATE WORK WITH THE TEMPERATURE CONTROL CONTRACTOR AND FIRE ALARM VENDOR. DAMPER SHALL CLOSE UPON DETECTION OF SMOKE AND SHUT DOWN ASSOCIATED AHU. PROVIDE ALL CONTROL MODULES, RELAYS, ETC. FOR A COMPLETE SYSTEM.
- PROVIDE 2-GANG JUNCTION BOX WITH 3/4" TO ABOVE ACCESSIBLE CEILING FOR CARD READER. PROVIDE CONDUIT WITH NYLON PULLSTRING. PROVIDE BLANK COVERPLATE AT JUNCTION BOX. COORDINATE EXACT LOCATION WITH ARCHITECTURAL TRADES.
- PROVIDE 2-GANG JUNCTION BOX WITH 3/4" TO ABOVE ACCESSIBLE CEILING FOR APHONE. PROVIDE CONDUIT WITH NYLON PULLSTRING. PROVIDE BLANK COVERPLATE AT JUNCTION BOX. COORDINATE EXACT LOCATION WITH ARCHITECTURAL TRADES.
- RELOCATED BACKWARD MOTOR. CIRCUIT TO EXISTING BRANCH CIRCUIT AND CONTROLS. EXTEND CONDUIT AND WIRE AS REQUIRED TO NEW LOCATION.
- NEW BLEACHER MOTOR. PROVIDE 30A-3P DISCONNECT SWITCH AND BRANCH CIRCUIT AS INDICATED. COORDINATE REQUIREMENTS FOR CONTROLS WITH ARCHITECTURAL SPECIFICATIONS AND SELECT MANUFACTURER AND PROVIDE JUNCTION BOXES, CONDUIT, AND CONTROL WIRING AS REQUIRED. COORDINATE LOCATION OF CONTROLS WITH OWNER.
- ALTERNATE E2: NEW GYMNASIUM SOUND SYSTEM. REFER TO DETAIL ON E7 SERIES DRAWINGS FOR SYSTEM REQUIREMENTS. PROVIDE NEW CABLEING AND ACCESSORIES AS REQUIRED FOR A COMPLETE SYSTEM.
- ALTERNATE E3: NEW CAFETERIA SOUND SYSTEM. REFER TO DETAIL ON E7 SERIES DRAWINGS FOR SYSTEM REQUIREMENTS. PROVIDE NEW CABLEING AND ACCESSORIES AS REQUIRED FOR A COMPLETE SYSTEM.
- RECEPTACLE TO BE MOUNTED ABOVE NEW ARCHITECTURAL PLATFORM. REFER TO ARCHITECTURAL ELEVATIONS FOR EXACT MOUNTING HEIGHT.
- NEW MUSIC ROOM SOUND SYSTEM. REFER TO DETAIL ON E7 SERIES DRAWINGS FOR SYSTEM REQUIREMENTS. PROVIDE NEW CABLEING AND ACCESSORIES AS REQUIRED FOR A COMPLETE SYSTEM. PROVIDE NEW GUARD RECEPTACLE AT MUSIC CABINET LOCATION. CIRCUIT RECEPTACLE AS INDICATED.
- PROVIDE #3/0 COPPER GROUND FROM NEW FOUNDATION REINFORCING STEEL TO GROUNDING ELECTRODE SYSTEM AT SERVICE ENTRANCE.
- SAW CUT EXISTING CONCRETE FLOOR AS REQUIRED FOR NEW FLOOR BOXES. PATCH CONCRETE TO MATCH EXISTING ONCE INSTALLATION IS COMPLETE.
- PROVIDE BRANCH CIRCUIT AS INDICATED FOR NEW WRESTLING MAT HOST CONTROLLER. PROVIDE ADDITIONAL WIRING AS REQUIRED FROM HOST CONTROLLER TO HPST MOTOR AND 120V VOLTAGE CONTROL SWITCH. COORDINATE EXACT REQUIREMENTS WITH ARCHITECTURAL SPECIFICATIONS AND MAT HOST MANUFACTURER. COORDINATE EXACT LOCATION OF CONTROL SWITCH WITH OWNER PRIOR TO INSTALLATION.
- SCOREBOARD CONTROL BOX. PROVIDE 2-GANG EMPTY DATA BOX WITH 1" CONDUIT TO SCOREBOARD. PROVIDE NYLON PULLSTRING IN CONDUIT.
- SCOREBOARD CONTROLLER, MICROPHONE, AND 120V DUPLEX RECEPTACLE OUTLET. PROVIDE NEW SCOREBOARD CABLEING FROM WALL MOUNTED CONTROLLER TO NEW OUTLET ON FACE OF NEW BLEACHER. SAME FOR 120V OUTLET AND MICROPHONE. COORDINATE REQUIREMENTS WITH SCOREBOARD MANUFACTURER AND BLEACHER MANUFACTURER. PROVIDE BACKBOXES, OUTLETS AND NEW CABLEING ROUTED THRU BREAK RINGS TO ALL BLEACHERS TO MOVE IN AND OUT. PROVIDE STRAIN RELIEF FOR ALL CABLES.
- EXTEND EXISTING VERTICAL SURFACE RACEWAY TO ABOVE CEILING. PROVIDE NEW SURFACE RACEWAY AND END PIECE AS REQUIRED. REWORK EXISTING CONDUITS AND BRANCH CIRCUITS TO ABOVE CEILING AS REQUIRED.
- PROVIDE FLIP-UP TABLE TOP USB RECEPTACLE LEARNED EQUIPMENT MODEL DOPF50U IN TABLE. CIRCUIT AS INDICATED. DIRECTION ARROW INDICATES DIRECTION RECEPTABLES SHALL FACE WHEN OPEN. COORDINATE EXACT LOCATIONS WITH ARCHITECTURAL ELEVATIONS.
- REINSTALL EXISTING CEILING FAN. CLEAN FAN BLADES AND MOTOR HOUSING WITH DETERGENT PRIOR TO INSTALLATION. CIRCUIT TO EXISTING BRANCH CIRCUIT AND CONTROLS. EXTEND CONDUIT AND WIRE AS REQUIRED.



KEY PLAN

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FARMINGTON PUBLIC SCHOOLS - 2015 BOND

2018 PROJECTS

WARNER MIDDLE SCHOOL

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POWER PLAN - AREA D

PRELIMINARY

DESIGN DEVELOPMENT

CONSTRUCTION

FINAL RECORD

DRAWN BY: JRD

CHECKED BY: GUZ

REVISIONS:

CONSTRUCTION 09/28/18

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