LAVALLEE|BRENSINGER ARCHITECTS

SANFORD HIGH SCHOOL and TECHNICAL CENTER

OWNER:

Sanford School Department and State of Maine Department of Education

SANFORD, ME 04073

ARCHITECT:

Lavallee Brensinger Architects

155 Dow Street, Suite 400, Manchester, NH 03101
40 Cambridge Street, Charlestown, MA 02129
305 Commercial Street Portland, ME 04101
NH: 603.622.5450
MA: 617.398.2035
ME: 207.558.7200
www.LBPA.com

CIVIL ENGINEER & LANDSCAPE ARCHITECT:

Sebago Technics

75 John Roberts Road, Suite 1A
South Portland, Maine 04106-6963
207.200.2071
www.sebagotechnics.com

STRUCTURAL ENGINEER:

Becker Structural Engineers

75 York Street
Portland, ME 04101
207.879.1838
www.beckerstructural.com

MECHANICAL / ELECTRICAL / PLUMBING & FIRE PROTECT ENGINEER:

Rist-Frost-Shumway Engineering

71 Water Street
Laconia, NH 03246
603.524.4647
www.rfsengineering.com

FOOD SERVICE CONSULTANT:

Crabtree McGrath Associates, Inc

161 West Main Street
Georgetown, MA 01833
978.352.8500
www.crabtree-mcgrath.com

ACOUSTICAL CONSULTANTS:

Cavanaugh Tocci Associates, Inc.

327F Boston Post Road
Sudbury, MA 01776
978.443.7871
www.cavtocci.com

RADON SYSTEM DESIGNER

Air & Water Quality

160 US Route 1
Freeport, ME 04032
800.698.9655
www.awqinc.com

COMMISSIONING AGENT (Owners Consultant)

RDK Engineers

200 Brickstone Square
Andover, MA 01810
978.296.6269
www.rdkengineers.com

GEOTECHNICAL ENGINEER (Owners Consultant)

S. W. Cole Engineering Inc.

286 Portland Road
Gray, Maine 04039
207.657.2866
www.rdkengineers.com

FOR ADDITIONAL INFORMATION, REFER TO PROJECT MANUAL.

DRAWING LIST - COVER SHEETS

SHEET #	SHEET NAME
Architectural	
A0.00.1	COVER SHEET (VOLUME 1) - CIVIL, STRUCTURAL
A0.00.2	COVER SHEET (VOLUME 2) - ARCHITECTURAL, ARCHITECTURAL INTERIORS
A0.00.3	COVER SHEET (VOLUME 3) - MECHANICAL, PLUMBING, FIRE PROTECTION, ELECTRICAL, FIRE ALARM, TELECOMMUNICATIONS, FOOD SERVICE

DRAWING LIST (VOLUME 3) - MECHANICAL, PLUMBING, FIRE PROTECTION, ELECTRICAL, FIRE ALARM, TELECOMMUNICATIONS, FOOD SERVICE

SHEET #	SHEET NAME
Mechanical	
M0.01	MECHANICAL SYMBOLS LEGEND AND TRADE NOTES
M5.01	MECHANICAL SCHEDULES
M5.02	MECHANICAL SCHEDULES
3	
Mechanical	
M1.09	BASEMENT - DUCTWORK PLAN
M1.10	FIRST FLOOR - DUCTWORK PLAN - AREA A1
M1.11	FIRST FLOOR - DUCTWORK PLAN - AREA A2
M1.12	FIRST FLOOR - DUCTWORK PLAN - AREA A3
M1.13	FIRST FLOOR - DUCTWORK PLAN - AREA B
M1.14	FIRST FLOOR - DUCTWORK PLAN - AREA C1
M1.15	FIRST FLOOR - DUCTWORK PLAN - AREA C2
M1.16	FIRST FLOOR - DUCTWORK PLAN - AREA D
M1.17	FIRST FLOOR - DUCTWORK PLAN - AREA E
M1.18	FIRST FLOOR - DUCTWORK PLAN - AREA F1
M1.19	FIRST FLOOR - DUCTWORK PLAN - AREA F2
M1.20	SECOND FLOOR- DUCTWORK PLAN - AREA A1
M1.21	SECOND FLOOR - DUCTWORK PLAN - AREA A2
M1.22	SECOND FLOOR - DUCTWORK PLAN - AREA A3
M1.23	SECOND FLOOR - DUCTWORK PLAN - AREA B
M1.24	SECOND FLOOR - DUCTWORK PLAN - AREA C1
M1.26	SECOND FLOOR - DUCTWORK PLAN - AREA D
M1.27	SECOND FLOOR - DUCTWORK PLAN - AREA E
M1.28	SECOND FLOOR - DUCTWORK PLAN - AREA F1
19	
Mechanical	
M2.09	BASEMENT PIPING PLAN
M2.10	FIRST FLOOR - PIPING PLAN - AREA A1
M2.11	FIRST FLOOR - PIPING PLAN - AREA A2
M2.12	FIRST FLOOR - PIPING PLAN - AREA A3
M2.13	FIRST FLOOR - PIPING PLAN - AREA B
M2.14	FIRST FLOOR - PIPING PLAN - AREA C1
M2.15	FIRST FLOOR - PIPING PLAN - AREA C2
M2.16	FIRST FLOOR - PIPING PLAN - AREA D
M2.17	FIRST FLOOR - PIPING PLAN - AREA E
M2.18	FIRST FLOOR - PIPING PLAN - AREA F1
M2.19	FIRST FLOOR - PIPING PLAN - AREA F2
M2.20	SECOND FLOOR - PIPING PLAN - AREA A1
M2.21	SECOND FLOOR - PIPING PLAN - AREA A2
M2.22	SECOND FLOOR - PIPING PLAN - AREA A3
M2.23	SECOND FLOOR - PIPING PLAN - AREA B
M2.24	SECOND FLOOR - PIPING PLAN - AREA C1
M2.26	SECOND FLOOR - PIPING PLAN - AREA D
M2.27	SECOND FLOOR - PIPING PLAN - AREA E
M2.28	SECOND FLOOR - PIPING PLAN - AREA F1
19	
Mechanical	
M3.10	MECHANICAL ROOF PLAN - AREA A1
M3.11	MECHANICAL ROOF PLAN - AREA A2
M3.12	MECHANICAL ROOF PLAN - AREA A3
M3.13	MECHANICAL ROOF PLAN - AREA B
M3.14	MECHANICAL ROOF PLAN - AREA C1
M3.15	MECHANICAL ROOF PLAN - AREA C2
M3.16	MECHANICAL ROOF PLAN - AREA D
M3.17	MECHANICAL ROOF PLAN - AREA E
M3.18	MECHANICAL ROOF PLAN - AREA F1
M3.19	MECHANICAL ROOF PLAN - AREA F2
10	
Mechanical	
M4.01	MECHANICAL DETAILS
M4.02	MECHANICAL DETAILS
M4.03	MECHANICAL DETAILS
M4.04	MECHANICAL DETAILS
M4.05	MECHANICAL VRF SCHEMATICS
5	
M5.04	MECHANICAL SCHEDULES
Mechanical	
M5.03	MECHANICAL SCHEDULES
2	
Mechanical	
M6.01	MECHANICAL CONTROLS
1	
Plumbing	
P0.01	PLUMBING SYMBOLS LEGEND AND TRADE NOTES
P0.09	BASEMENT PLUMBING UNDERSLAB PLAN
P0.10	FIRST FLOOR PLUMBING UNDERSLAB PLAN - AREA A1
P0.11	FIRST FLOOR PLUMBING UNDERSLAB PLAN - AREA A2
P0.12	FIRST FLOOR PLUMBING UNDERSLAB PLAN - AREA A3
P0.13	FIRST FLOOR PLUMBING UNDERSLAB PLAN - AREA B
P0.14	FIRST FLOOR PLUMBING UNDERSLAB PLAN - AREA C1
P0.15	FIRST FLOOR PLUMBING UNDERSLAB PLAN - AREA C2
P0.16	FIRST FLOOR PLUMBING UNDERSLAB PLAN - AREA D
P0.17	FIRST FLOOR PLUMBING UNDERSLAB PLAN - AREA E
P0.18	FIRST FLOOR PLUMBING UNDERSLAB PLAN - AREA F1
P0.19	FIRST FLOOR PLUMBING UNDERSLAB PLAN - AREA F2
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Plumbing	
P1.09	BASEMENT PLUMBING PLAN
P1.10	FIRST FLOOR PLUMBING PLAN - AREA A1
P1.11	FIRST FLOOR PLUMBING PLAN - AREA A2
P1.12	FIRST FLOOR PLUMBING PLAN - AREA A3
P1.13	FIRST FLOOR PLUMBING PLAN - AREA B
P1.14	FIRST FLOOR PLUMBING PLAN -AREA C1
P1.15	FIRST FLOOR PLUMBING PLAN - AREA C2
P1.16	FIRST FLOOR PLUMBING PLAN - AREA D
P1.17	FIRST FLOOR PLUMBING PLAN - AREA E
P1.18	FIRST FLOOR PLUMBING PLAN - AREA F1
P1.19	FIRST FLOOR PLUMBING PLAN - AREA F2
P1.20	SECOND FLOOR PLUMBING PLAN - AREA A1
P1.21	SECOND FLOOR PLUMBING PLAN - AREA A2
P1.22	SECOND FLOOR PLUMBING PLAN - AREA A3
P1.23	SECOND FLOOR PLUMBING PLAN - AREA B
P1.24	SECOND FLOOR PLUMBING PLAN - AREA C1
P1.26	SECOND FLOOR PLUMBING PLAN - AREA D
P1.27	SECOND FLOOR PLUMBING PLAN - AREA E
P1.28	SECOND FLOOR PLUMBING PLAN - AREA F1
P1.30	ROOF PLUMBING PLAN - AREA A1
P1.31	ROOF PLUMBING PLAN - AREA A2
P1.32	ROOF PLUMBING PLAN - AREA A3
P1.33	ROOF PLUMBING PLAN - AREA B
P1.34	ROOF PLUMBING PLAN - AREA C1
P1.35	ROOF PLUMBING PLAN - AREA C2
P1.36	ROOF PLUMBING PLAN - AREA D
P1.37	ROOF PLUMBING PLAN - AREA E
P1.38	ROOF PLUMBING PLAN - AREA F1
P1.39	ROOF PLUMBING PLAN - AREA F2
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DRAWING LIST (VOLUME 3) - MECHANICAL, PLUMBING, FIRE PROTECTION, ELECTRICAL, FIRE ALARM, TELECOMMUNICATIONS, FOOD SERVICE

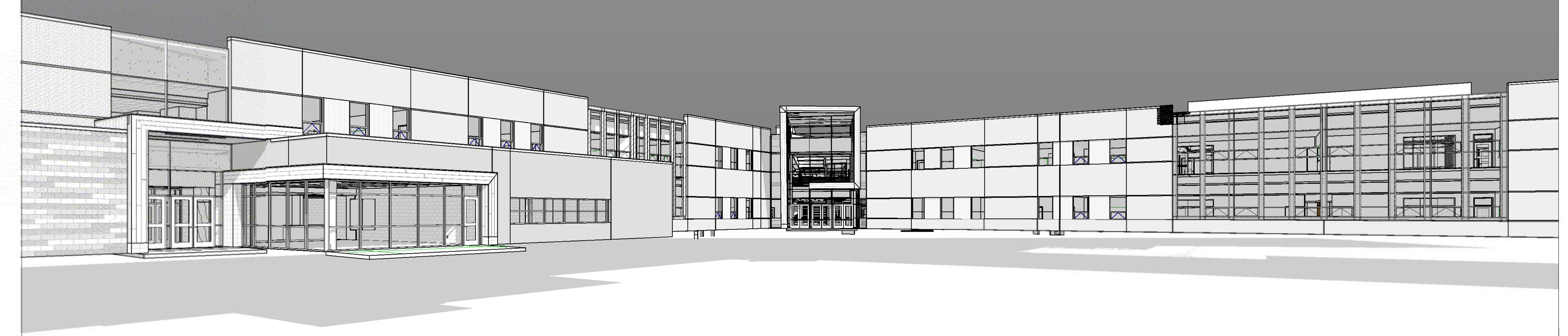
SHEET #	SHEET NAME
Plumbing	
P2.01	ENLARGED PLUMBING PART PLANS
P2.02	ENLARGED PLUMBING PART PLANS
2	
Plumbing	
P3.01	ENLARGED KITCHEN PLANS
P3.02	ENLARGED KITCHEN PLANS
2	
Plumbing	
P4.01	PLUMBING DETAILS
P4.02	PLUMBING DETAILS
P4.03	PLUMBING DETAILS
P4.04	PLUMBING DETAILS
4	
Plumbing	
P5.01	PLUMBING SCHEDULES
1	
Fire Protection	
FP0.01	FIRE PROTECTION SYMBOLS LEGEND AND TRADE NOTES
FP0.02	FIRE PROTECTION BASEMENT & FIRST FLOOR ZONING PLAN
FP0.03	FIRE PROTECTION SECOND FLOOR ZONING PLAN
3	
Fire Protection	
FP1.09	BASEMENT FIRE PROTECTION PLAN
FP1.10	FIRST FLOOR FIRE PROTECTION PLAN - AREA A1
FP1.11	FIRST FLOOR FIRE PROTECTION PLAN - AREA A2
FP1.12	FIRST FLOOR FIRE PROTECTION PLAN - AREA A3
FP1.13	FIRST FLOOR FIRE PROTECTION PLAN - AREA B
FP1.14	FIRST FLOOR FIRE PROTECTION PLAN - AREA C1
FP1.15	FIRST FLOOR FIRE PROTECTION PLAN - AREA C2
FP1.16	FIRST FLOOR FIRE PROTECTION PLAN - AREA D
FP1.17	FIRST FLOOR FIRE PROTECTION PLAN - AREA E
FP1.18	FIRST FLOOR FIRE PROTECTION PLAN - AREA F1
FP1.19	FIRST FLOOR FIRE PROTECTION PLAN - AREA F2
FP1.20	SECOND FLOOR FIRE PROTECTION PLAN - AREA A1
FP1.21	SECOND FLOOR FIRE PROTECTION PLAN - AREA A2
FP1.22	SECOND FLOOR FIRE PROTECTION PLAN - AREA A3
FP1.23	SECOND FLOOR FIRE PROTECTION PLAN - AREA B
FP1.24	SECOND FLOOR FIRE PROTECTION PLAN - AREA C1
FP1.26	SECOND FLOOR FIRE PROTECTION PLAN - AREA D
FP1.27	SECOND FLOOR FIRE PROTECTION PLAN - AREA E
FP1.28	SECOND FLOOR FIRE PROTECTION PLAN - AREA F1
19	
Fire Protection	
FP2.01	FIRE PROTECTION DETAILS
FP2.02	FIRE PROTECTION DETAILS
2	
Electrical	
E0.01	ELECTRICAL SYMBOLS LEGEND AND TRADE NOTES
E0.02	ELECTRICAL ONE-LINE DIAGRAM
E0.03	ELECTRICAL ONE-LINE DIAGRAM
E0.04	ELECTRICAL SCHEDULES
E0.05	ELECTRICAL SCHEDULES
E0.06	ELECTRICAL SCHEDULES
E0.07	PANELBOARD SCHEDULES
E0.08	PANELBOARD SCHEDULES
E0.09	PANELBOARD SCHEDULES
E0.10	PANELBOARD SCHEDULES
E0.11	PANELBOARD SCHEDULES
E0.12	PANELBOARD SCHEDULES
E0.13	PANELBOARD SCHEDULES
E0.14	PANELBOARD SCHEDULES
E0.15	PANELBOARD SCHEDULES
E0.16	PANELBOARD SCHEDULES
E0.17	PANELBOARD SCHEDULES
E0.18	PANELBOARD SCHEDULES
18	
Electrical	
E1.09	BASEMENT LIGHTING PLAN
E1.10	FIRST FLOOR LIGHTING PLAN - AREA A1
E1.11	FIRST FLOOR LIGHTING PLAN - AREA A2
E1.12	FIRST FLOOR LIGHTING PLAN - AREA A3
E1.13	FIRST FLOOR LIGHTING PLAN - AREA B
E1.14	FIRST FLOOR LIGHTING PLAN - AREA C1
E1.15	FIRST FLOOR LIGHTING PLAN - AREA C2
E1.16	FIRST FLOOR LIGHTING PLAN - AREA D
E1.17	FIRST FLOOR LIGHTING PLAN - AREA E
E1.18	FIRST FLOOR LIGHTING PLAN - AREA F1
E1.19	FIRST FLOOR LIGHTING PLAN - AREA F2
E1.20	SECOND FLOOR LIGHTING PLAN - AREA A1
E1.21	SECOND FLOOR LIGHTING PLAN - AREA A2
E1.22	SECOND FLOOR LIGHTING PLAN - AREA A3
E1.23	SECOND FLOOR LIGHTING PLAN - AREA B
E1.24	SECOND FLOOR LIGHTING PLAN - AREA C1
E1.26	SECOND FLOOR LIGHTING PLAN - AREA D
E1.27	SECOND FLOOR LIGHTING PLAN - AREA E
E1.28	SECOND FLOOR LIGHTING PLAN - AREA F1
E1.31	LIGHTING SECTIONS
20	
Electrical	
E2.09	BASEMENT POWER PLAN
E2.10	FIRST FLOOR POWER PLAN - AREA A1
E2.11	FIRST FLOOR POWER PLAN - AREA A2
E2.12	FIRST FLOOR POWER PLAN - AREA A3
E2.13	FIRST FLOOR POWER PLAN - AREA B
E2.14	FIRST FLOOR POWER PLAN - AREA C1
E2.15	FIRST FLOOR POWER PLAN - AREA C2
E2.16	FIRST FLOOR POWER PLAN - AREA D
E2.17	FIRST FLOOR POWER PLAN - AREA E
E2.18	FIRST FLOOR POWER PLAN - AREA F1
E2.19	FIRST FLOOR POWER PLAN - AREA F2
E2.20	SECOND FLOOR POWER PLAN - AREA A1
E2.21	SECOND FLOOR POWER PLAN - AREA A2
E2.22	SECOND FLOOR POWER PLAN - AREA A3
E2.23	SECOND FLOOR POWER PLAN - AREA B
E2.24	SECOND FLOOR POWER PLAN - AREA C1
E2.26	SECOND FLOOR POWER PLAN - AREA D
E2.27	SECOND FLOOR POWER PLAN - AREA E
E2.28	SECOND FLOOR POWER PLAN - AREA F1
E2.30	ROOF POWER PLAN - AREA A1
E2.31	ROOF POWER PLAN - AREA A2
E2.32	ROOF POWER PLAN - AREA A3
E2.33	ROOF POWER PLAN - AREA B
E2.34	ROOF POWER PLAN - AREA C1
E2.35	ROOF POWER PLAN - AREA C2
E2.36	ROOF POWER PLAN - AREA D
E2.37	ROOF POWER PLAN - AREA E
E2.38	ROOF POWER PLAN - AREA F1
E2.39	ROOF POWER PLAN - AREA F2
E2.41	ENLARGED POWER PART PLANS
E2.51	ENLARGED CAFETERIA POWER PART PLAN
E2.52	CAFETERIA EQUIPMENT SCHEDULE
E2.61	ENLARGED CULINARY POWER PART PLAN
E2.62	CULINARY EQUIPMENT SCHEDULE
E2.71	ENLARGED FACS CULINARY POWER PART PLAN
E2.72	FACS CULINARY EQUIPMENT SCHEDULE
E2.81	POWER SECTIONS
37	
Electrical	
E3.09	BASEMENT SYSTEMS PLAN
E3.10	FIRST FLOOR SYSTEMS PLAN - AREA A1
E3.11	FIRST FLOOR SYSTEMS PLAN - AREA A2
E3.12	FIRST FLOOR SYSTEMS PLAN - AREA A3

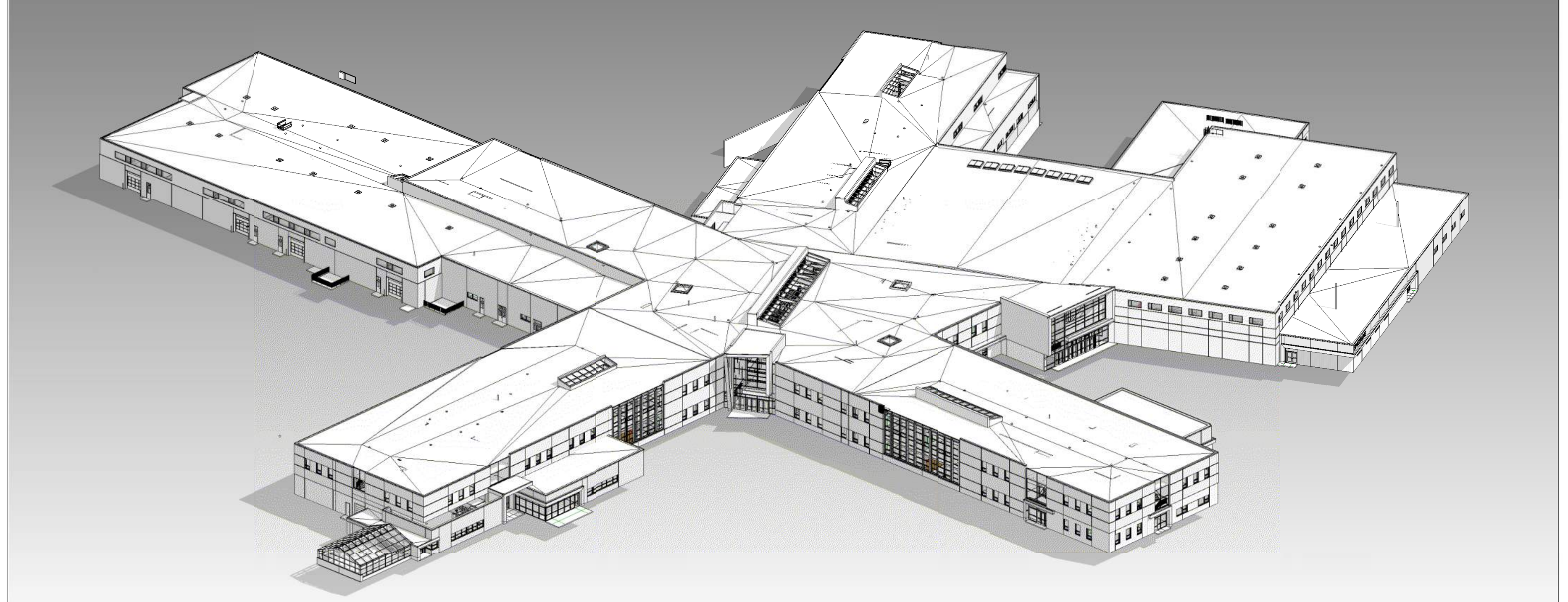
DRAWING LIST (VOLUME 3) - MECHANICAL, PLUMBING, FIRE PROTECTION, ELECTRICAL, FIRE ALARM, TELECOMMUNICATIONS, FOOD SERVICE

SHEET #	SHEET NAME
E3.13	FIRST FLOOR SYSTEMS PLAN - AREA B
E3.14	FIRST FLOOR SYSTEMS PLAN - AREA C1
E3.15	FIRST FLOOR SYSTEMS PLAN - AREA C2
E3.16	FIRST FLOOR SYSTEMS PLAN - AREA D
E3.17	FIRST FLOOR SYSTEMS PLAN - AREA E
E3.18	FIRST FLOOR SYSTEMS PLAN - AREA F1
E3.19	FIRST FLOOR SYSTEMS PLAN - AREA F2
E3.20	SECOND FLOOR SYSTEMS PLAN - AREA A1
E3.21	SECOND FLOOR SYSTEMS PLAN - AREA A2
E3.22	SECOND FLOOR SYSTEMS PLAN - AREA A3
E3.23	SECOND FLOOR SYSTEMS PLAN - AREA B
E3.24	SECOND FLOOR SYSTEMS PLAN - AREA C1
E3.26	SECOND FLOOR SYSTEMS PLAN - AREA D
E3.27	SECOND FLOOR SYSTEMS PLAN - AREA E
E3.28	SECOND FLOOR SYSTEMS PLAN - AREA F1
19	
Electrical	
E4.01	LIGHTING FIXTURE SCHEDULE
E4.02	LIGHTING DETAILS
E4.03	LIGHTING DETAILS
E4.04	LIGHTING DETAILS
E4.05	LIGHTING DETAILS
5	
Electrical	
E5.01	ELECTRICAL DETAILS
E5.02	ELECTRICAL DETAILS
E5.03	ELECTRICAL DETAILS
E5.04	ELECTRICAL DETAILS
4	
Electrical	
ES1.01	ELECTRICAL SITE PLAN
ES1.02	ELECTRICAL SITE PLAN
ES1.03	ELECTRICAL SITE PLAN
ES1.04	ELECTRICAL SITE PLAN
ES1.05	ELECTRICAL SITE PLAN
ES1.06	ELECTRICAL SITE PLAN
ES1.07	ELECTRICAL SITE PLAN
ES1.08	ELECTRICAL SITE PLAN
ES1.09	ELECTRICAL SITE PLAN
ES1.10	ELECTRICAL SITE PLAN
ES1.11	ELECTRICAL SITE PLAN
ES1.12	ELECTRICAL SITE PLAN
ES1.13	ELECTRICAL SITE PLAN
ES1.14	ELECTRICAL SITE PLAN
14	
Electrical	
ES2.01	ELECTRICAL SITE DETAILS
ES2.02	ELECTRICAL SITE DETAILS
ES2.03	ELECTRICAL SITE DETAILS
ES2.04	ELECTRICAL SITE DETAILS
ES2.05	STADIUM LIGHTING INFORMATION
ES2.06	STADIUM LIGHTING DETAILS
6	
Electrical	
FA0.01	FIRE ALARM SYMBOLS LEGEND AND TRADE NOTES
1	
Electrical	
FA1.09	BASEMENT FIRE ALARM PLAN
FA1.10	FIRST FLOOR FIRE ALARM PLAN - AREA A1
FA1.11	FIRST FLOOR FIRE ALARM PLAN - AREA A2
FA1.12	FIRST FLOOR FIRE ALARM PLAN - AREA A3
FA1.13	FIRST FLOOR FIRE ALARM PLAN - AREA B
FA1.14	FIRST FLOOR FIRE ALARM PLAN - AREA C1
FA1.15	FIRST FLOOR FIRE ALARM PLAN - AREA C2
FA1.16	FIRST FLOOR FIRE ALARM PLAN - AREA D
FA1.17	FIRST FLOOR FIRE ALARM PLAN - AREA E
FA1.18	FIRST FLOOR FIRE ALARM PLAN - AREA F1
FA1.19	FIRST FLOOR FIRE ALARM PLAN - AREA F2
FA1.20	SECOND FLOOR FIRE ALARM PLAN - AREA A1
FA1.21	SECOND FLOOR FIRE ALARM PLAN - AREA A2
FA1.22	SECOND FLOOR FIRE ALARM PLAN - AREA A3
FA1.23	SECOND FLOOR FIRE ALARM PLAN - AREA B
FA1.24	SECOND FLOOR FIRE ALARM PLAN - AREA C1
FA1.26	SECOND FLOOR FIRE ALARM PLAN - AREA D
FA1.27	SECOND FLOOR FIRE ALARM PLAN - AREA E
FA1.28	SECOND FLOOR FIRE ALARM PLAN - AREA F1
19	
Electrical	
FA2.01	FIRE ALARM DETAILS
FA2.02	FIRE ALARM DETAILS
2	
Electrical	
T0.01	TELECOMMUNICATIONS SYMBOLS LEGEND AND TRADE NOTES
1	
Electrical	
T1.09	BASEMENT TELECOMMUNICATIONS PLAN
T1.10	FIRST FLOOR TELECOMMUNICATIONS PLAN - AREA A1
T1.11	FIRST FLOOR TELECOMMUNICATIONS PLAN - AREA A2
T1.12	FIRST FLOOR TELECOMMUNICATIONS PLAN - AREA A3
T1.13	FIRST FLOOR TELECOMMUNICATIONS PLAN - AREA B
T1.14	FIRST FLOOR TELECOMMUNICATIONS PLAN - AREA C1
T1.15	FIRST FLOOR TELECOMMUNICATIONS PLAN - AREA C2
T1.16	FIRST FLOOR TELECOMMUNICATIONS PLAN - AREA D
T1.17	FIRST FLOOR TELECOMMUNICATIONS PLAN - AREA E
T1.18	FIRST FLOOR TELECOMMUNICATIONS PLAN - AREA F1
T1.19	FIRST FLOOR TELECOMMUNICATIONS PLAN - AREA F2
T1.20	SECOND FLOOR TELECOMMUNICATIONS PLAN - AREA A1
T1.21	SECOND FLOOR TELECOMMUNICATIONS PLAN - AREA A2
T1.22	SECOND FLOOR TELECOMMUNICATIONS PLAN - AREA A3
T1.23	SECOND FLOOR TELECOMMUNICATIONS PLAN - AREA B
T1.24	SECOND FLOOR TELECOMMUNICATIONS PLAN - AREA C1
T1.26	SECOND FLOOR TELECOMMUNICATIONS PLAN - AREA D
T1.27	SECOND FLOOR TELECOMMUNICATIONS PLAN - AREA E
T1.28	SECOND FLOOR TELECOMMUNICATIONS PLAN - AREA F1
T1.31	ENLARGED TELECOMMUNICATIONS PART PLANS
T1.41	TELECOMMUNICATIONS SECTIONS
21	
Electrical	
T2.01	TELECOMMUNICATIONS RISER DIAGRAM
1	
Electrical	
T3.01	TELECOMMUNICATIONS DETAILS
T3.02	TELECOMMUNICATIONS DETAILS
T3.03	TELECOMMUNICATIONS DETAILS
3	
Electrical	
T4.01	TELECOMMUNICATIONS SCHEDULES
1	
Food Service	
K0.1	CAFETERIA AND CULINARY KITCHENS FOODSERVICE EQUIPMENT SCHEDULE
K1.1	CAFETERIA KITCHEN FOODSERVICE EQUIPMENT PLAN
K1.2	CULINARY KITCHEN FOODSERVICE EQUIPMENT PLAN
K1.3	FACS CULINARY LAB FOODSERVICE EQUIPMENT PLAN
K1.4	ECE KITCHEN FOODSERVICE EQUIPMENT PLAN
K1.5	LIFE SKILLS LAB FOODSERVICE EQUIPMENT PLAN
K2.1	CAFETERIA KITCHEN FOODSERVICE EQUIPMENT ROUGH-IN PLAN
K2.2	CULINARY KITCHEN FOODSERVICE EQUIPMENT ROUGH-IN PLAN
K3.1	FOODSERVICE EQUIPMENT ELEVATIONS
K3.2	FOODSERVICE EQUIPMENT DETAILS
10	
RADON	
R1.00	RADON PIPING PLAN & DETAILS
1	
Grand total: 316	

Sanford School Department and State of Maine Department of Education

SANFORD, ME 04073





Signature: [signature]
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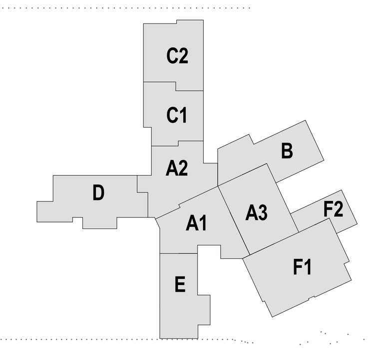
Sanford School Department

Signature: [signature]
Name: Patrick Cotter
State of Maine Fire Marshal / Plan Reviewer

Signature: [signature]
Name: Scott E. Brown
State of Maine Department of Education

Signature:
Name:
State of Maine Department of Health and Human Services

Signature: [signature]
Name: Joseph H. Ostwald
State of Maine Bureau of General Services



KEY PLAN

VOLUME 3

MECHANICAL, PLUMBING, FIRE PROTECTION, ELECTRICAL, FIRE ALARM, TELECOMMUNICATIONS, FOOD SERVICE

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PROJ # 12-067-00 BID DOCUMENTS 02/11/2016

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MECHANICAL LEGEND

SYMBOL	DESCRIPTION
CO	CLEANOUT
HWS	HOT WATER SUPPLY
HWR	HOT WATER RETURN
RL	REFRIGERANT (LIQUID)
RG	REFRIGERANT (GAS)
C	CONDENSATE
	BRANCH OUT OF TOP OF MAIN
	BRANCH OUT OF BOTTOM OF MAIN
	COMBINATION PRESSURE/ TEMPERATURE PORT (PT PORT)
	FLANGE
	PIPE RISING
	PIPE TURNING DOWN
	TEE TURNED DOWN
	TEE TURNED UP
	CAP
	UNION
	AUTOMATIC BALANCING / FLOW CONTROL VALVE
	MANUAL BALANCING / FLOW CONTROL VALVE
	BALL VALVE
	CHECK VALVE
	CONTROL VALVE, 2-WAY
	CONTROL VALVE, 3-WAY
	BALL VALVE W/ CAPPED HOSE CONN.
	STRAINER W/ HOSE END DRAIN
	STRAINER W/ HOSE END DRAIN AND PT PORTS
	STRAINER
	AIR VENT - MANUAL
	AIR VENT - AUTOMATIC
	THERMOMETER
	PRESSURE GAUGE W/ SHUT OFF CLOCK
PS	PRESSURE SENSOR
DPS	DIFFERENTIAL PRESSURE SENSOR
	FLEXIBLE PIPE CONNECTION
S	TEMPERATURE SENSOR (INSERTION TYPE)
T OR S	TEMPERATURE SENSOR OR THERMOSTAT (REFER TO ATC SPECIFICATION)
	DESIGNATES ITEMS TO BE REMOVED

SYMBOL	DESCRIPTION
DN	DROP IN DUCT (IN DIRECTION OF AIRFLOW)
UP	RISE IN DUCT (IN DIRECTION OF AIRFLOW)
FC	DUCT FLEX CONNECTION
	RETURN AIR DUCT DOWN
	RETURN AIR DUCT UP
R / D	RISE/DROP IN DUCT (IN DIRECTION OF AIRFLOW)
	SUPPLY AIR DUCT DOWN
	SUPPLY AIR DUCT UP
	SMOKE DAMPER W/ ACCESS DOOR
	FIRE DAMPER W/ ACCESS DOOR
	COMBINATION FIRE/ SMOKE DAMPER W/ ACCESS DOOR
SD	SMOKE DETECTOR
	TURNING VANES
	FULL SPLITTER VANES
	VOLUME CONTROL DAMPER
CD	MEDIUM DUTY VOLUME CONTROL DAMPER
	BLAST GATE, DUST COLLECTOR SYSTEM
X" Ø	ROUND DUCT ("X" INDICATES DIAMETER)
X"	FLAT OVAL DUCTWORK
ACD	MOTOR OPERATED AUTOMATIC CONTROL DAMPER
M	MOTOR OPERATED AUTOMATIC CONTROL DAMPER
	DESIGNATES EQUIPMENT WITH POWER
OR	DESIGNATES EQUIPMENT WITHOUT POWER

DUCTWORK DWGS.:

SYMBOL	DESCRIPTION
RP	RADIANT PANEL TYPE
-	LENGTH
-	FLOW RATE(GPM)
FT	FIN TUBE TYPE
-	ELEMENT LENGTH
-	FLOW RATE(GPM)

DIFFUSER/REGISTER/GRILLE AIR PATTERNS
(SHADING INDICATES QUADRANT WITHOUT AIR)

- 4 WAY
- 3 WAY
- 2 WAY
- 2 WAY CORNER
- 1 WAY
- REGISTER/GRILLE
- LINEAR DIFFUSER

SYMBOL	DESCRIPTION
	DOUBLE WALL DUCTWORK
	SUPPLY VALVE AIR TERMINAL UNIT W/ REHEAT COIL
	VINYL LAGGING ON DUCTWORK

MECHANICAL ABBREVIATIONS

AC	AIR CONDITIONING UNIT
ACC	AIR COOLED CONDENSER
ACCU	AIR COOLED CONDENSING UNIT
AD	ACCESS DOOR
AFF	ABOVE FINISH FLOOR
APD	AIR PRESSURE DROP
APPROX	APPROXIMATE
AHU	AIR HANDLING UNIT
AS	AIR SEPARATOR
AVG	AVERAGE
B	BOILER
BAS	BUILDING AUTOMATION SYSTEM
BHP	BRAKE HORSEPOWER
BTUH	BRITISH THERMAL UNITS PER HOUR
BP	BOILER PUMP
C	CONDENSATE
CAPC	CAPACITY
DF	DESTRATIFICATION FAN
C.O.	CLEAN OUT
CFM	CUBIC FEET PER MINUTE
COND	CONDENSER; CONDENSATE
CONN	CONNECTION
COP	COEFFICIENT OF PERFORMANCE
CP	CIRCULATING PUMP
CUH	CABINET UNIT HEATER
CV	CONSTANT VOLUME BOX
D	DEPTH
DB	DRY BULB
DBF	DRYER BOOSTER FAN
DC	DUST COLLECTOR
DEF	DISHWASHER EXHAUST FAN
°F	DEGREES FAHRENHEIT
DIA	DIAMETER
DN	DOWN
DPS	DIFFERENTIAL PRESSURE SENSOR
EA	EXHAUST AIR; EACH
EAT	ENTERING AIR TEMPERATURE
EER	ENERGY EFFICIENCY RATIO
EF	EXHAUST FAN
EFF	EFFICIENCY
EG	EXHAUST GRILLE
ELEC	ELECTRIC; ELECTRICAL
ELEV	ELEVATION
ERU	ENERGY RECOVERY UNIT
ET	EXPANSION TANK
ESP	EXTERNAL STATIC PRESSURE
EWT	ENTERING WATER TEMPERATURE
FC	FLEXIBLE CONNECTOR;
FLA	FULL LOAD AMPS
FOT	FLAT ON TOP
FPM	FEET PER MINUTE
FT	FEET; FINTUBE
FV	FACE VELOCITY
GA	GAUGE
GAL	GALLON
GPM	GALLONS PER MINUTE
H	HEIGHT, HIGH
HC	HEATING COIL
HD	HEAD
HGT	HEIGHT
HP	HORSEPOWER
HR	HOUR
HTG	HEATING
HVLS	HIGH VOLUME LOW SPEED
HWP	HOT WATER PUMP
HZ	HERTZ
IN	INCHES
KEF	KITCHEN EXHAUST FAN
KW	KILOWATT
L	LENGTH, LOUVER
LAT	LEAVING AIR TEMPERATURE
LD	LINEAR DIFFUSER
LEF	LAB EXHAUST FAN
LF	LINEAR FOOT
LR	LINEAR RETURN
LRA	LOCKED ROTOR AMPS
LWT	LEAVING WATER TEMPERATURE
MAX	MAXIMUM
MBH	BTU PER HOUR (THOUSAND)
MCA	MINIMUM CIRCUIT AMPACITY
MECH	MECHANICAL
MFS	MAXIMUM FUSE SIZE
MIN	MINIMUM
MOP	MAXIMUM OVERCURRENT PROTECTION
MTG	MOUNTING
MTR	MOTOR
N/A	NOT APPLICABLE
NC	NORMALLY CLOSED; NOISE CRITERIA
NO	NORMALLY OPEN
NTS	NOT TO SCALE
OA	OUTSIDE AIR
OAT	OUTDOOR AIR TEMPERATURE
OED	OPEN END DUCT
O.C.	ON CENTER
PD	PRESSURE DROP
PH	PHASE
PS	PRESSURE SENSOR
PSI	POUNDS PER SQUARE INCH
PSIG	POUNDS PER SQUARE INCH GAUGE
PUH	PROPELLER UNIT HEATER
QTY	QUANTITY
RA	RETURN AIR
REF	REFRIGERANT
REQ'D	REQUIRED
RG	RETURN GRILLE; REFRIGERANT GAS
RH	RELATIVE HUMIDITY
RL	REFRIGERANT LIQUID
RLA	RUNNING LOAD AMPS
RP	RADIANT HEATING PANEL; PERFORATED RETURN
RPM	REVOLUTIONS PER MINUTE
SA	SUPPLY AIR; SOUND ATTENUATOR
SD	SUPPLY DIFFUSER
SEER	SEASONAL ENERGY EFFICIENCY RATIO
SENS	SENSIBLE
SF	SQUARE FEET
SP	STATIC PRESSURE
TEMP	TEMPERATURE
TSP	TOTAL STATIC PRESSURE
TYP	TYPICAL
VEL	VELOCITY
VLT	VOLTS
VOL	VOLUME
VV	VARIABLE VOLUME BOX
W	WIDTH
W/	WITH
WB	WET BULB
WC	WATER COLUMN
WG	WATER GAUGE
WMS	WIRE MESH SCREEN
WPD	WATER PRESSURE DROP

GENERAL NOTES

THE FOLLOWING GENERAL NOTES APPLY TO ALL RIST-FROST-SHUMWAY ENGINEERING, P.C., DRAWINGS AND TRADES ASSOCIATED WITH THOSE DRAWINGS INVOLVED ON THIS PROJECT:

G-1 RIST-FROST-SHUMWAY ENGINEERING, P.C., WAIVES ANY AND ALL RESPONSIBILITY AND LIABILITY FOR PROBLEMS WHICH ARISE FROM FAILURE TO FOLLOW THESE PLANS, SPECIFICATIONS, AND/OR THE DESIGN INTENT THEY CONVEY, OR FOR PROBLEMS WHICH ARISE FROM OTHERS' FAILURE TO OBTAIN AND/OR FOLLOW THE GUIDANCE OF RIST-FROST-SHUMWAY ENGINEERING, P.C., GUIDANCE WITH RESPECT TO ANY ERRORS, OMISSIONS, INCONSISTENCIES, AMBIGUITIES, OR CONFLICTS WHICH ARE DISCOVERED OR ALLEGED.

G-2 ALL WORK SHALL CONFORM TO ALL FEDERAL, STATE, AND LOCAL CODES AND STANDARDS INCLUDING, BUT NOT LIMITED TO, NFPA, ICC, UL, SMACNA, OSHA, AND NEC.

G-3 CONTRACTOR AND ALL SUBCONTRACTORS SHALL PROTECT THE WORK SITE, SURROUNDING AREAS AND OCCUPANTS FROM DAMAGE AND INJURY.

G-4 CONTRACTOR AND ALL SUBCONTRACTORS SHALL FAMILIARIZE THEMSELVES WITH THE CONTRACT DOCUMENTS. ALL DRAWINGS OF ANY PARTICULAR TRADE SHALL BE USED IN CONJUNCTION WITH DRAWINGS OF ALL OTHER TRADES TO COORDINATE ALL CONSTRUCTION. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER BEFORE PROCEEDING WITH THE AFFECTED WORK. ANY PROPOSED CHANGES, VARIATIONS, OR SUBSTITUTIONS MUST BE REVIEWED AND ACCEPTED BY THE ENGINEER PRIOR TO IMPLEMENTATION.

G-5 ALL DRAWINGS ARE INTENDED TO SHOW THE GENERAL ARRANGEMENT, DESIGN INTENT AND EXTENT OF THE WORK. THEY SHALL BE CONSIDERED PARTLY DIAGRAMMATIC. THEY ARE NOT INTENDED TO BE SCALED FOR ROUGHING-IN MEASUREMENTS OR TO SERVE AS SHOP DRAWINGS.

G-6 THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL DIMENSIONS (AS-BUILT OR OTHERWISE) BEFORE COMMENCING FABRICATION, AND/OR ORDERING MATERIALS.

G-7 DETAILS SHOWN ON ANY DRAWING ARE TO BE CONSIDERED TYPICAL FOR ALL SIMILAR CONDITIONS, UNLESS OTHERWISE INDICATED.

G-8 IT IS THE RESPONSIBILITY OF EACH CONTRACTOR AND/OR TRADE INVOLVED IN THIS PROJECT TO COORDINATE WITH EACH OTHER AND THE GENERAL CONTRACTOR IN ORDER TO DETERMINE LOGICAL, EFFICIENT AND WORKMANLIKE LAY-OUTS FOR ABOVE CEILING EQUIPMENT AND SYSTEMS IN ORDER TO ACHIEVE AND MAINTAIN THE HIGHEST PRACTICAL CEILING HEIGHTS, WHILE MAINTAINING MAXIMUM ACCESSIBILITY, SERVICEABILITY, AND FLEXIBILITY FOR THOSE SYSTEMS AND EQUIPMENT.

MECHANICAL TRADE NOTES

1. REFER TO GENERAL NOTES ON THIS DRAWING FOR ADDITIONAL INFORMATION.
2. COORDINATE LOCATIONS OF ALL MECHANICAL EQUIPMENT AND SYSTEMS WITH ALL OTHER TRADES.
3. CONTRACTOR SHALL MAINTAIN MINIMUM REQUIRED WORKING CLEARANCES AROUND ELECTRICAL EQUIPMENT PER CURRENT NATIONAL ELECTRIC CODE.
4. CONTRACTOR SHALL PROVIDE SLEEVES WHEREVER PIPING OR DUCTWORK PENETRATES ANY WALL, FLOOR, CEILING AND/OR ROOF.
5. ALL PENETRATIONS THROUGH WALLS, FLOORS, CEILINGS AND/OR ROOFS SHALL BE EITHER CORE DRILLED OR SAW CUT - CHISELED OR HAMMERED PENETRATIONS ARE NOT ALLOWED.
6. ALL DUCTWORK AND PIPING SHALL BE INSTALLED AS HIGH AS POSSIBLE. CAREFUL LAYOUT, COORDINATION AND INSTALLATION OF MECHANICAL SYSTEMS IS ESSENTIAL. COORDINATION WITH ELECTRICAL SYSTEMS AND ARCHITECTURAL FEATURES IS REQUIRED TO ACHIEVE A NEAT AND ORDERLY INSTALLATION.
7. COORDINATE CEILING AIR OUTLET AND INLET LOCATIONS WITH THE ARCHITECT'S CEILING PLANS, LIGHTING LAYOUT, AND OTHER CEILING MOUNTED FEATURES. MAINTAIN REQUIRED CLEARANCES BETWEEN AIR OUTLETS AND SMOKE DETECTORS.
8. RUN ALL DUCTWORK, PIPING AND WIRING NEATLY AND SQUARE WITH ALL BUILDING FEATURES.
9. WHERE DUCTWORK OR PIPING PENETRATE A FIRE RATED WALL, FLOOR, CEILING AND/OR ROOF, SUITABLE FIRE-STOP MATERIAL SHALL BE PROVIDED BY THIS CONTRACTOR.
10. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ACCESS DOORS OR PANELS WHERE REQUIRED IN WALLS, CEILING AND FLOORS TO PROVIDE READY ACCESS TO ALL VALVES, VOLUME CONTROL DAMPERS, CLEANOUTS, AND OTHER DEVICES OR EQUIPMENT. COORDINATE WITH THE GENERAL CONTRACTOR AS REQUIRED.
11. DUCT SIZES SHOWN ON DRAWINGS ARE NET CLEAR INSIDE DIMENSIONS.
12. ALL DRAWINGS ARE INTENDED TO SHOW THE GENERAL ARRANGEMENT, DESIGN INTENT AND EXTENT OF THE WORK. THEY SHALL BE CONSIDERED PARTLY DIAGRAMMATIC. THEY ARE NOT INTENDED TO BE SCALED FOR ROUGHING-IN MEASUREMENTS.
13. NOTE THAT EXPOSED DUCTWORK AND PIPING HAS BEEN LAID OUT TO ACHIEVE A SPECIFIC VISUAL APPEARANCE; ALTERATIONS TO THE GENERAL LAYOUT REQUIRE ARCHITECT/ENGINEER APPROVAL.
14. DETAILS SHOWN ON ANY DRAWING ARE TO BE CONSIDERED TYPICAL FOR ALL SIMILAR CONDITIONS, UNLESS OTHERWISE INDICATED.
15. REFER TO SUMMARY OF WORK SECTION IN THE SPECIFICATIONS FOR INFORMATION REGARDING PROJECT SEQUENCING, AND COORDINATION OF WORK WITH OWNER ACTIVITIES.
16. FIRE-STOPPING REQUIREMENTS:
FIRE-RATED ASSEMBLIES INCLUDE SELECT WALLS, ALL FLOORS ABOVE GROUND LEVEL, AND SELECT ROOF AREAS. WHERE THE INSTALLATION OF MECHANICAL SYSTEMS, DUCTWORK, PIPING, EQUIPMENT, AND APPURTENANCES PENETRATE OR OTHERWISE DISTURB THE INTEGRITY OF FIRE-RATED ASSEMBLIES, ALL REQUIRED FIRE-STOPPING (INCLUDING SLEEVES, DAMPERS, CAULK, PACKING, ETC. AS APPROPRIATE), SHALL BE THE RESPONSIBILITY OF THE DIVISION 23 CONTRACTOR. FIRE STOPPING SHALL BE PERFORMED IN STRICT ACCORDANCE WITH DIVISION 07 REQUIREMENTS. REFER TO ARCHITECTURAL DRAWINGS FOR INDICATION OF FIRE-RATED ASSEMBLIES. COORDINATE THE SEQUENCING OF ALL FIRE-STOPPING ACTIVITIES WITH THE GENERAL CONTRACTOR.
17. THE MINIMUM HVAC SYSTEM PIPE SIZE SHALL BE 3/4" UNLESS OTHERWISE NOTED. RUN-OUT PIPING NOT IDENTIFIED ON THE DRAWINGS SHALL BE 3/4".
18. PROVIDE TAMPER-PROOF, FLUSH-MOUNTED TEMPERATURE SENSORS FOR THE FOLLOWING SPACES:
    TOILET ROOMS.
    MECHANICAL ROOMS.
    STORAGE ROOMS.
    ELECTRICAL ROOMS.
    LOCKER ROOMS.

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SANFORD HIGH SCHOOL and TECHNICAL CENTER

SANFORD, ME 04073

NO.	DESCRIPTION	DATE

FOR ADDITIONAL INFORMATION, REFER TO PROJECT MANUAL.

CONTENT:
MECHANICAL SYMBOLS LEGEND AND TRADE NOTES

DRAWN BY:	S. DANBY
PROJECT NO:	12-067-00
DATE:	02/11/2016
REVISED:	
SCALE:	NO SCALE

M0.01

Project Phase
BID DOCUMENTS

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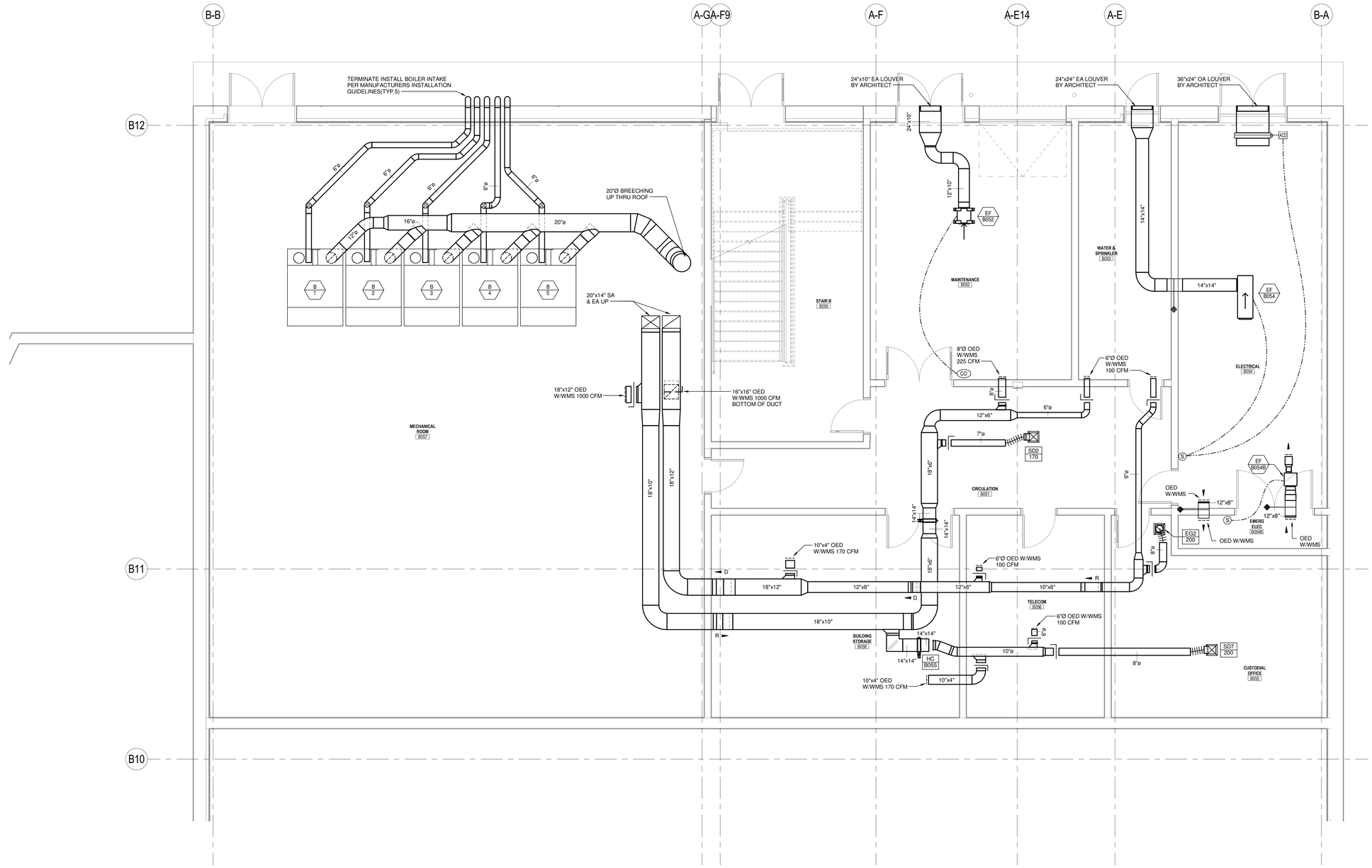
DRAWING NOTES



1 BASEMENT - DUCTWORK PLAN
1/4" = 1'-0"

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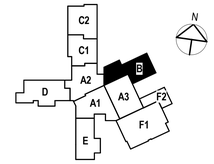

CONTENT:
BASEMENT - DUCTWORK PLAN

DRAWN BY:	S. DANBY
PROJECT NO:	12-067-00
DATE:	02/11/2016
REVISED:	
SCALE:	1/4" = 1'-0"

M1.09

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DRAWING NOTES

1. PROVIDE AUTOMATIC LOW LEAKAGE CONTROL DAMPER INTERLOCKED WITH KEF-7. NORMALLY OPEN WHEN KEF-7 IS OFF AND NORMALLY CLOSED WHENKEF-7 IS ON.
2. DUCT ROUTED THRU BEAM PENETRATION.

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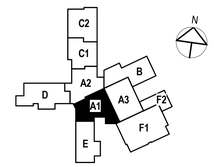

CONTENT:
FIRST FLOOR - DUCTWORK PLAN - AREA A1

DRAWN BY:	S. DANBY
PROJECT NO:	12-067-00
DATE:	02/11/2016
REVISED:	
SCALE:	1/8" = 1'-0"

M1.10

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DRAWING NOTES

1. INSTALL SUPPLY REGISTER AT 0° ANGLE (PARALLEL TO FLOOR)
2. 14"x4" DN INTO CAN WASH. OED W/WMS BALANCE TO 150 CFM.

1 LEVEL 1 - DUCTWORK PLAN - AREA A2
1/8" = 1'-0"

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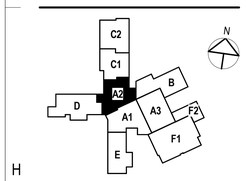

CONTENT:
FIRST FLOOR - DUCTWORK PLAN - AREA A2

DRAWN BY:	S. DANBY
PROJECT NO:	12-067-00
DATE:	02/11/2016
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SCALE:	1/8" = 1'-0"

M1.11

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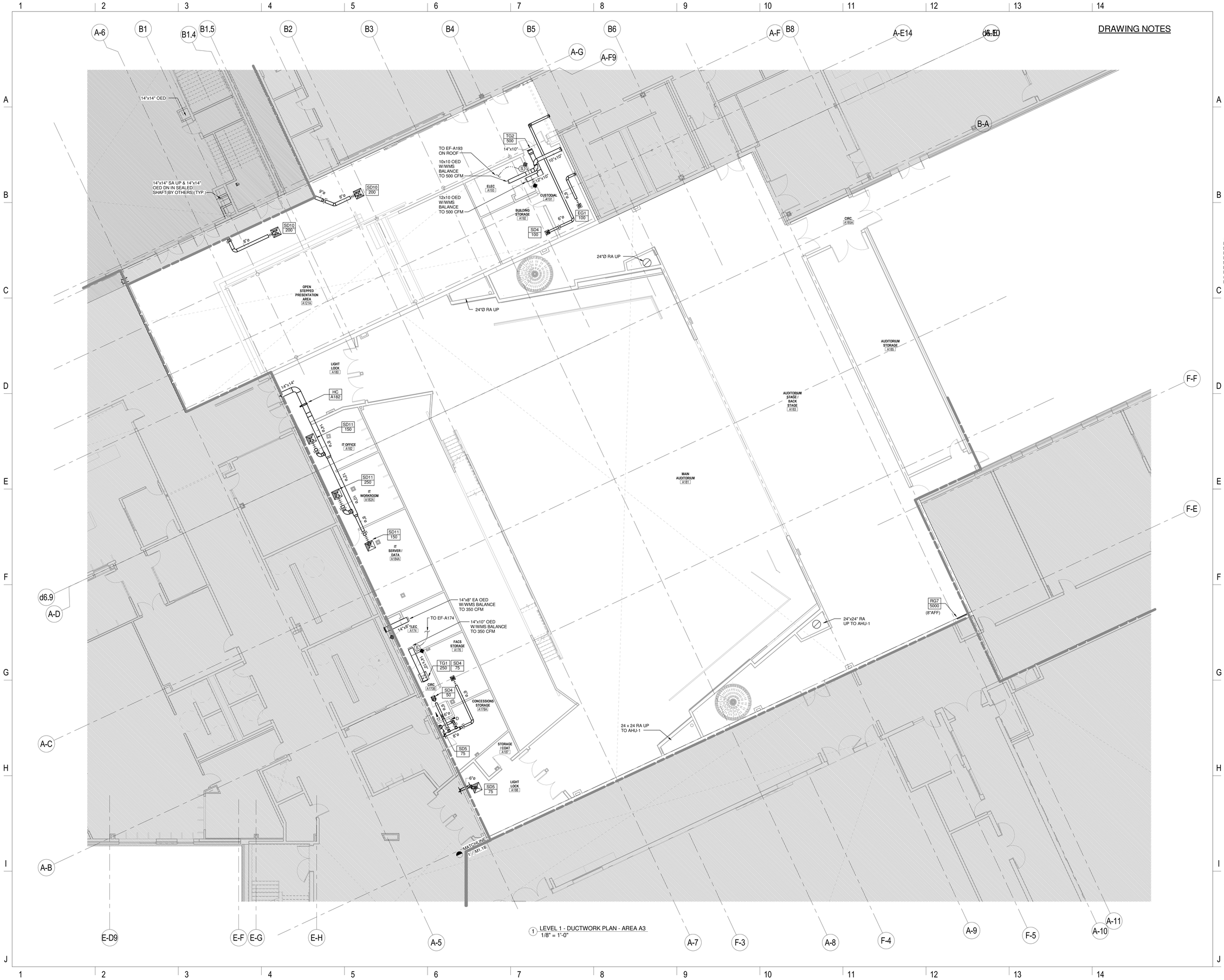

1 LEVEL 1 - DUCTWORK PLAN - AREA A3
1/8" = 1'-0"

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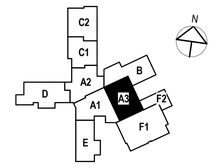

CONTENT:
FIRST FLOOR - DUCTWORK PLAN - AREA A3

DRAWN BY:	S. DANBY
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DATE:	02/11/2016
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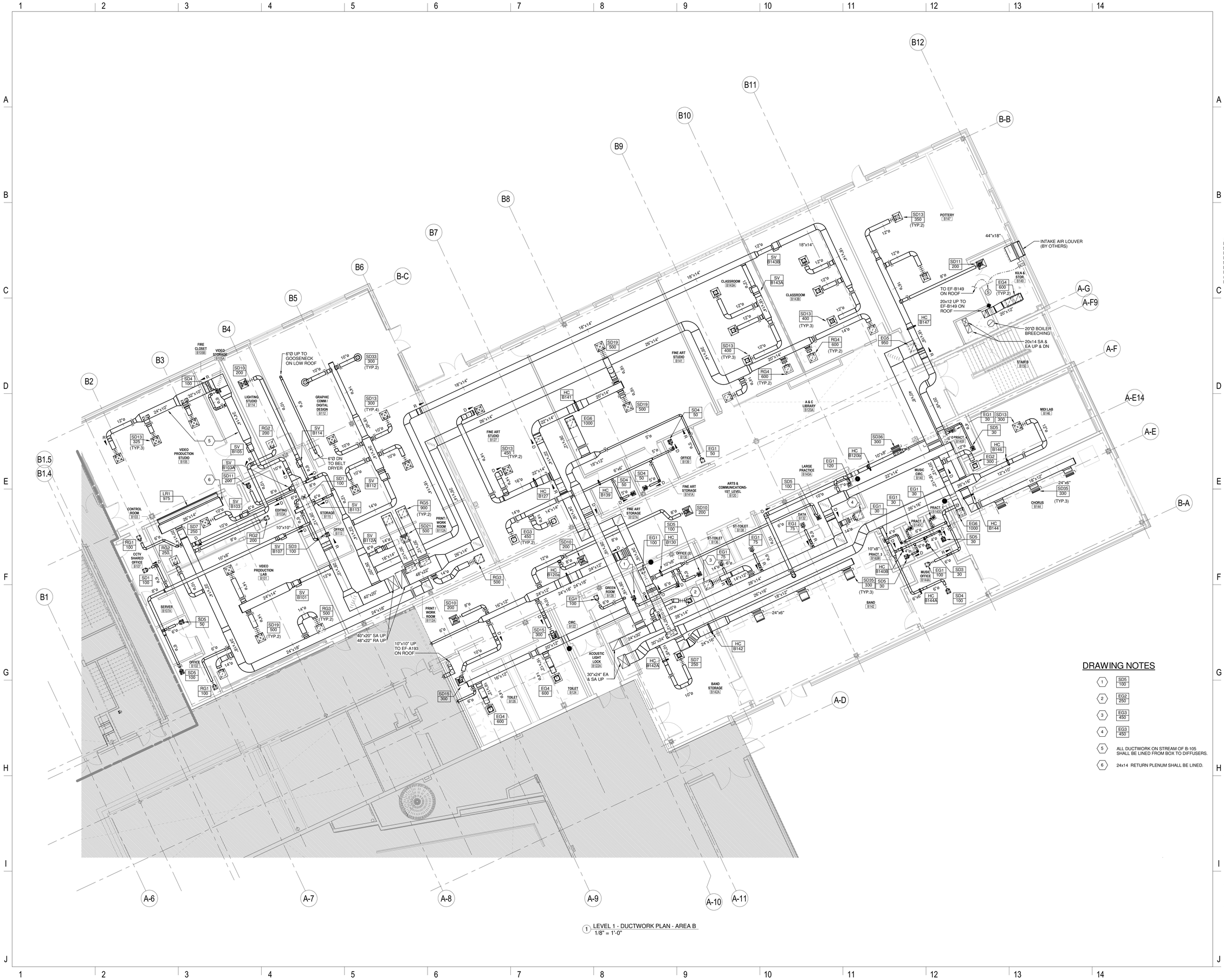

1 LEVEL 1 - DUCTWORK PLAN - AREA B
1/8" = 1'-0"

DRAWING NOTES

1. SD5 100
2. EG2 250
3. EG3 450
4. EG3 450
5. ALL DUCTWORK ON STREAM OF B-105 SHALL BE LINED FROM BOX TO DIFFUSERS.
6. 24x14 RETURN PLENUM SHALL BE LINED.

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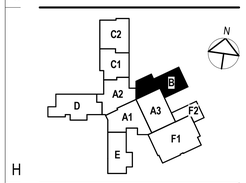

CONTENT:
FIRST FLOOR - DUCTWORK PLAN - AREA B

DRAWN BY:	S. DANBY
PROJECT NO:	12-067-00
DATE:	02/11/2016
REVISED:	
SCALE:	1/8" = 1'-0"

M1.13

Project Phase
BID DOCUMENTS

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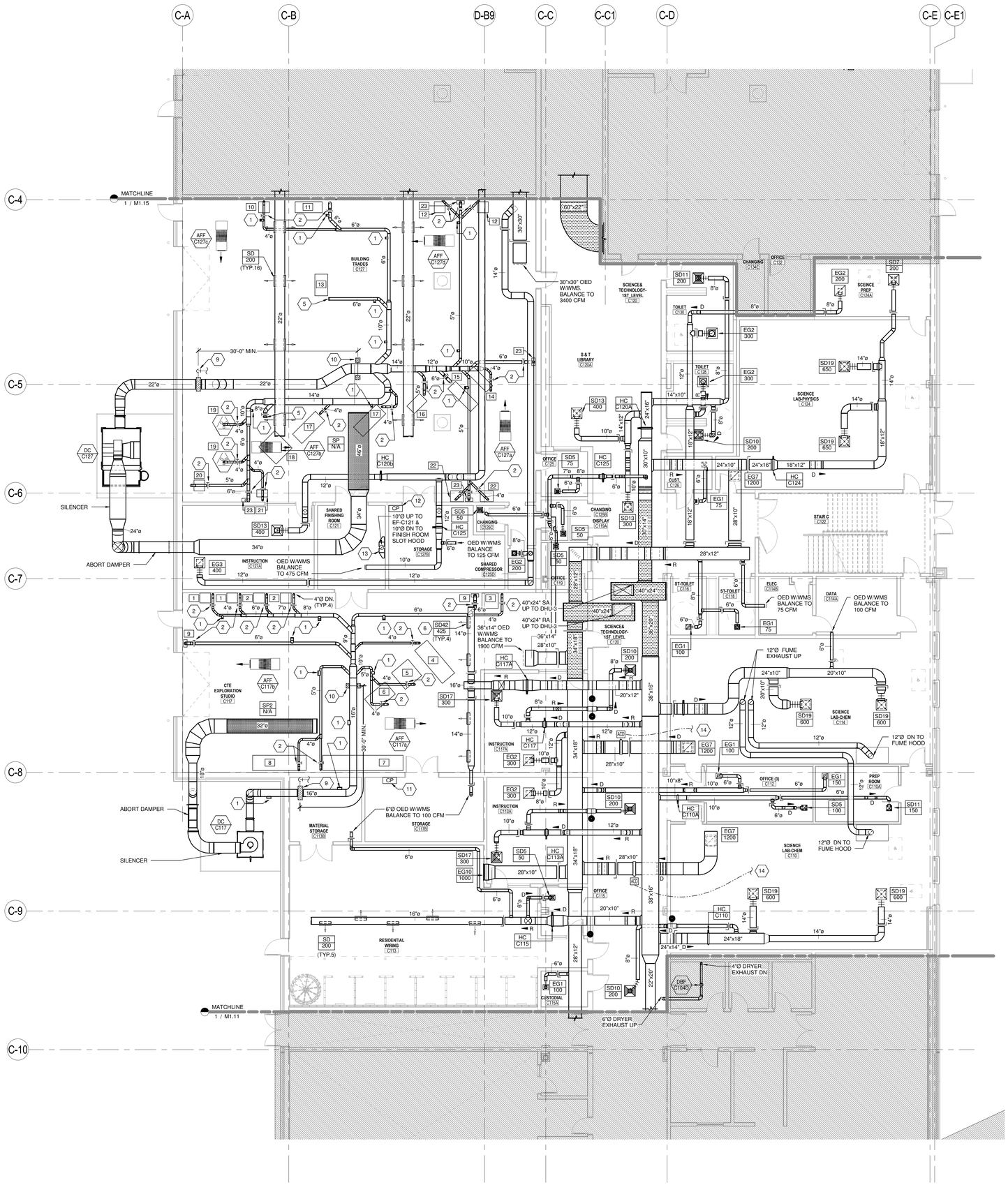

1 LEVEL 1 - DUCTWORK PLAN - AREA C1
1/8" = 1'-0"

DRAWING NOTES

1. PROVIDE DUCT CLEAN-OUTS SUITABLE FOR USE IN THE DUST COLLECTION SYSTEM EXHAUST DUCTWORK AT 90° CHANGES IN DIRECTION, AT APPROXIMATELY 20' INTERVALS IN STRAIGHT DUCT RUNS, AND AS INDICATED ON THE DRAWING. (TYPICAL)
2. DUST COLLECTION SYSTEM BLAST GATES/CONTROL DAMPERS ARE SHOWN IN HORIZONTAL DUCTWORK FOR SCHEMATIC PURPOSES. INSTALL BLAST GATES/CONTROL DAMPERS IN VERTICAL DUST COLLECTION DUCTWORK AND/OR AT TERMINAL CONNECTIONS TO EQUIPMENT WHEREVER POSSIBLE TO ALLOW FOR EASE OF OPERATION. (TYPICAL)
3. DUST COLLECTION SYSTEM CONTROL PANEL. THE ELECTRICAL CONTRACTOR SHALL INSTALL CONTROL / INTERLOCK WIRING BETWEEN THE DUST COLLECTOR AND REMOTE CONTROL STATION AND "DUST SWITCH" CONTROL PANEL.
4. "DUST SWITCH" CONTROL PANEL FOR AUTOMATIC OPERATION OF INDUSTRIAL FAN. CONTROL PANEL AND CURRENT SENSING TRANSFORMERS PROVIDED BY MECHANICAL CONTRACTOR. ELECTRICAL CONTRACTOR TO INSTALL TRANSFORMERS AND WIRING.
5. CAPPED FOR FUTURE.
6. INSTALL SUPPLY REGISTER AT 0° ANGLE (PARALLEL TO FLOOR)
7. FIELD VERIFY ACTUAL CTE EXPLORATION STUDIO ROOM C117 EQUIPMENT LOCATIONS AND TERMINAL CONNECTION REQUIREMENTS FOR DUST COLLECTION SYSTEM. ADJUST DUST COLLECTION DUCTWORK CONFIGURATION AS REQUIRED TO ACCOMMODATE FIELD CONDITIONS AND EQUIPMENT MANUFACTURER'S REQUIREMENTS. FABRICATE AND INSTALL DUST COLLECTION SYSTEM TO ACCOMMODATE THE FOLLOWING SHOP EQUIPMENT SCHEDULE:
   - 1 BAND SAW, 350 CFM
   - 2 SCROLL SAW, 350 CFM
   - 3 ROUTER, 350 CFM
   - 4 JOINTER, 800 CFM
   - 5 PLANER, 900 CFM
   - 6 TABLE SAW, 350 CFM
   - 7 MITER SAW, 350 CFM
   - 8 DISC SANDER, 350 CFM
   - 9 FLOOR SWEEPS, 800 CFM
8. FIELD VERIFY ACTUAL BUILDING TRADES ROOM C127 EQUIPMENT LOCATIONS AND TERMINAL CONNECTION REQUIREMENTS FOR DUST COLLECTION SYSTEM. ADJUST DUST COLLECTION DUCTWORK CONFIGURATION AS REQUIRED TO ACCOMMODATE FIELD CONDITIONS AND EQUIPMENT MANUFACTURER'S REQUIREMENTS. FABRICATE AND INSTALL DUST COLLECTION SYSTEM TO ACCOMMODATE THE FOLLOWING SHOP EQUIPMENT SCHEDULE:
   - 10 JET SPINDLE SANDER, 350 CFM
   - 11 WOOD LATHE, 450 CFM
   - 12 MITER SAW, 350 CFM
   - 13 PLANER, 800 CFM (FUTURE)
   - 14 8" JOINTER, 800 CFM
   - 15 12" JOINTER, 800 CFM
   - 16 PLANER, 900 CFM
   - 17 10" TABLE SAW, 350 CFM
   - 18 DOUBLE BELT SANDER, 1600 CFM (FUTURE)
   - 19 3 PERSON SPINDLE SHAPER, 550 CFM
   - 20 BELT SANDER, 550 CFM
   - 21 BAND SAW, 350 CFM
   - 22 ROUTER, 350 CFM
   - 23 FLOOR SWEEPS, 800 CFM
9. IN-DUCT SUPPRESSION ASSEMBLY.
10. IN-DUCT DETECTION ASSEMBLY.
11. CTE EXPLORATION DUST COLLECTOR DC-117 CONTROL PANEL. COORDINATE EXACT LOCATION WITH ARCHITECT, CONSTRUCTION MANAGER, OWNER AND ALL ELECTRICAL REQUIREMENTS WITH THE ELECTRICAL CONTRACTOR.
12. BUILDING TRADES DUST COLLECTOR DC-127 CONTROL PANEL. COORDINATE EXACT LOCATION WITH ARCHITECT, CONSTRUCTION MANAGER, OWNER AND ALL ELECTRICAL REQUIREMENTS WITH THE ELECTRICAL CONTRACTOR.
13. REFER TO FINISH RM SLOT HOOD DETAIL FOR ADDITIONAL INFORMATION. SELECTION BASED ON KEES.
14. TO ASSOCIATE FUME HOOD EXHAUST.

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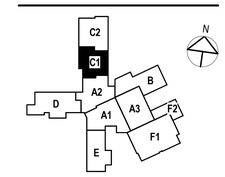
SANFORD HIGH SCHOOL and TECHNICAL CENTER

SANFORD, ME 04073

NO.	DESCRIPTION	DATE



CONTENT:
FIRST FLOOR - DUCTWORK PLAN - AREA C1

DRAWN BY:	S. DANBY
PROJECT NO:	12-067-00
DATE:	02/11/2016
REVISED:	
SCALE:	1/8" = 1'-0"

M1.14

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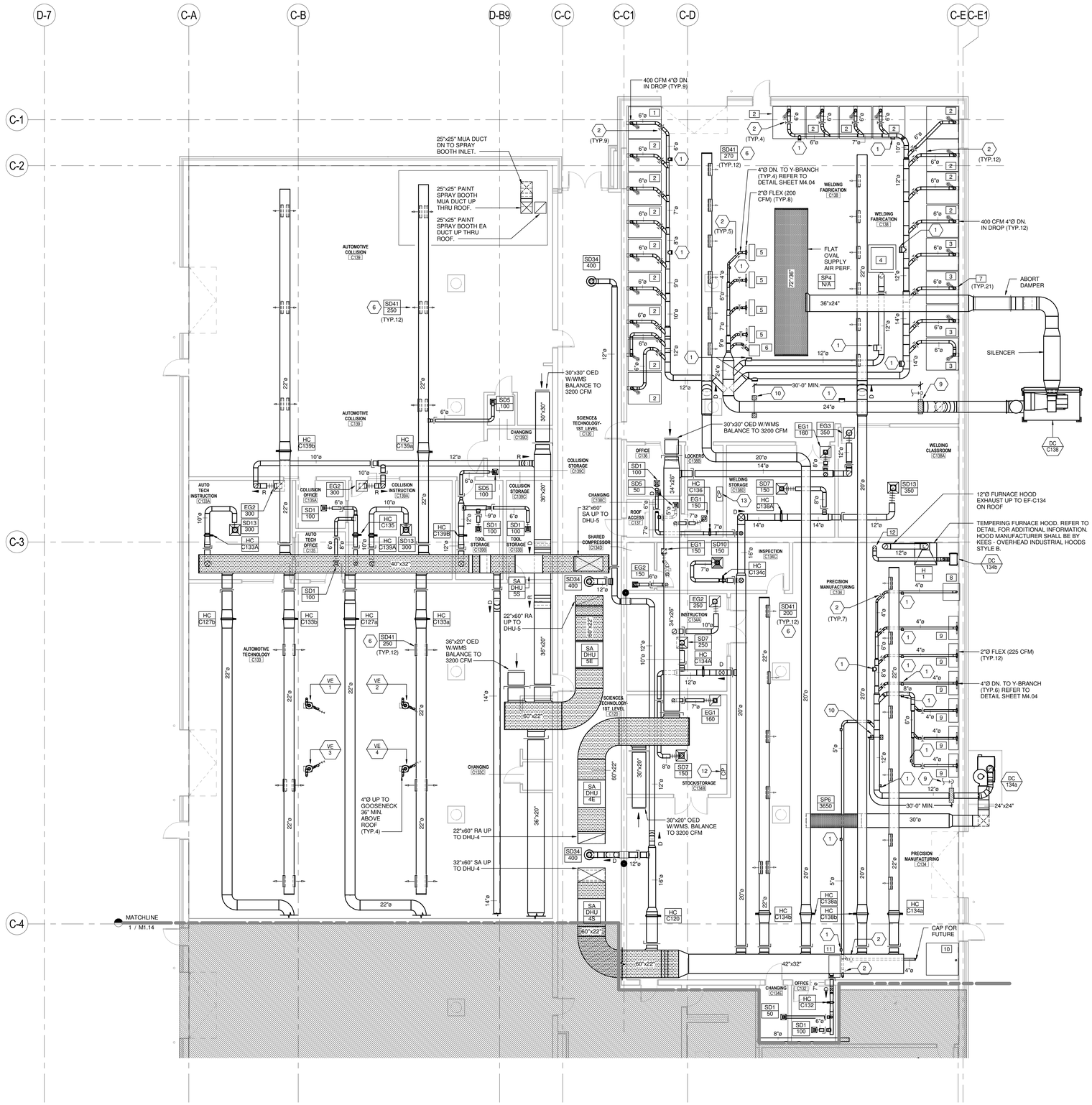

1 LEVEL 1 - DUCTWORK PLAN - AREA C2
1/8" = 1'-0"

DRAWING NOTES

1. PROVIDE DUCT CLEAN-OUTS SUITABLE FOR USE IN THE DUST COLLECTION SYSTEM EXHAUST DUCTWORK AT 90° CHANGES IN DIRECTION, AT APPROXIMATELY 20' INTERVALS IN STRAIGHT DUCT RUNS, AND AS INDICATED ON THE DRAWING. (TYPICAL)
2. DUST COLLECTION SYSTEM BLAST GATES/CONTROL DAMPERS ARE SHOWN IN HORIZONTAL DUCTWORK FOR SCHEMATIC PURPOSES. INSTALL BLAST GATES/CONTROL DAMPERS IN VERTICAL DUST COLLECTION DUCTWORK AND/OR AT TERMINAL CONNECTIONS TO EQUIPMENT WHEREVER POSSIBLE TO ALLOW FOR EASE OF OPERATION. (TYPICAL)
3. DUST COLLECTION SYSTEM CONTROL PANEL. THE ELECTRICAL CONTRACTOR SHALL INSTALL CONTROL / INTERLOCK WIRING BETWEEN THE DUST COLLECTOR AND REMOTE CONTROL STATION AND "DUST SWITCH" CONTROL PANEL.
4. "DUST SWITCH" CONTROL PANEL FOR AUTOMATIC OPERATION OF INDUSTRIAL FAN, CONTROL PANEL AND CURRENT SENSING TRANSFORMERS PROVIDED BY MECHANICAL CONTRACTOR. ELECTRICAL CONTRACTOR TO INSTALL TRANSFORMERS AND WIRING.
5. CAPPED FOR FUTURE.
6. INSTALL SUPPLY REGISTER AT 0° ANGLE (PARALLEL TO FLOOR)
7. FIELD VERIFY ACTUAL WELDING FABRICATION ROOM C138 EQUIPMENT LOCATIONS AND TERMINAL CONNECTION REQUIREMENTS FOR DUST COLLECTION SYSTEM. ADJUST DUST COLLECTION DUCTWORK CONFIGURATION AS REQUIRED TO ACCOMMODATE FIELD CONDITIONS AND EQUIPMENT MANUFACTURER'S REQUIREMENTS. FABRICATE AND INSTALL DUST COLLECTION SYSTEM TO ACCOMMODATE THE FOLLOWING SHOP EQUIPMENT SCHEDULE:
   - 1 CARBON ARC WELDING STATION, 400 CFM
   - 2 WELDING STATION, 400 CFM
   - 3 MIG STATION, 400 CFM
   - 4 PLASMA ARC CUTTER, 3200 CFM
   - 5 PEDESTAL GRINDER, 400 CFM
   - 6 DISC SANDER, 350 CFM
   - 7 WELDING EXTRACTION ARM, 400 CFM
8. FIELD VERIFY ACTUAL PRECISION MANUFACTURING ROOM C134 EQUIPMENT LOCATIONS AND TERMINAL CONNECTION REQUIREMENTS FOR DUST COLLECTION SYSTEM. ADJUST DUST COLLECTION DUCTWORK CONFIGURATION AS REQUIRED TO ACCOMMODATE FIELD CONDITIONS AND EQUIPMENT MANUFACTURER'S REQUIREMENTS. FABRICATE AND INSTALL DUST COLLECTION SYSTEM TO ACCOMMODATE THE FOLLOWING SHOP EQUIPMENT SCHEDULE:
   - 8 HORIZONTAL BAND SAW, 400 CFM
   - 9 PEDESTAL GRINDER, 450 CFM
   - 10 WELD STATION, 400 CFM (FUTURE)
   - 11 DISC SANDER, 350 CFM
   - 12 EXTRACTION ARM MOUNTED ON WALL (MODEL BASED ON AIRFLOW SYSTEMS - 6P035) EXTRACTION ARM TO SERVE BOTH EOM MACHINE AND CYLINDRICAL GRINDER. (TYP. 21)
12. PRECISION MANUFACTURERING DUST COLLECTOR DC-C134a CONTROL PANEL. COORDINATE EXACT LOCATION WITH ARCHITECT, CONSTRUCTION MANAGER, OWNER AND ALL ELECTRICAL REQUIREMENTS WITH THE ELECTRICAL CONTRACTOR.
13. WELDING FABRICATION DUST COLLECTOR DC-C138 CONTROL PANEL. COORDINATE EXACT LOCATION WITH ARCHITECT, CONSTRUCTION MANAGER, OWNER AND ALL ELECTRICAL REQUIREMENTS WITH THE ELECTRICAL CONTRACTOR.

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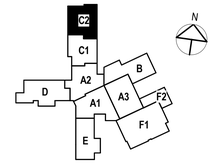

CONTENT:
FIRST FLOOR - DUCTWORK PLAN - AREA C2

DRAWN BY:	S. DANBY
PROJECT NO:	12-067-00
DATE:	02/11/2016
REVISED:	
SCALE:	1/8" = 1'-0"

M1.15

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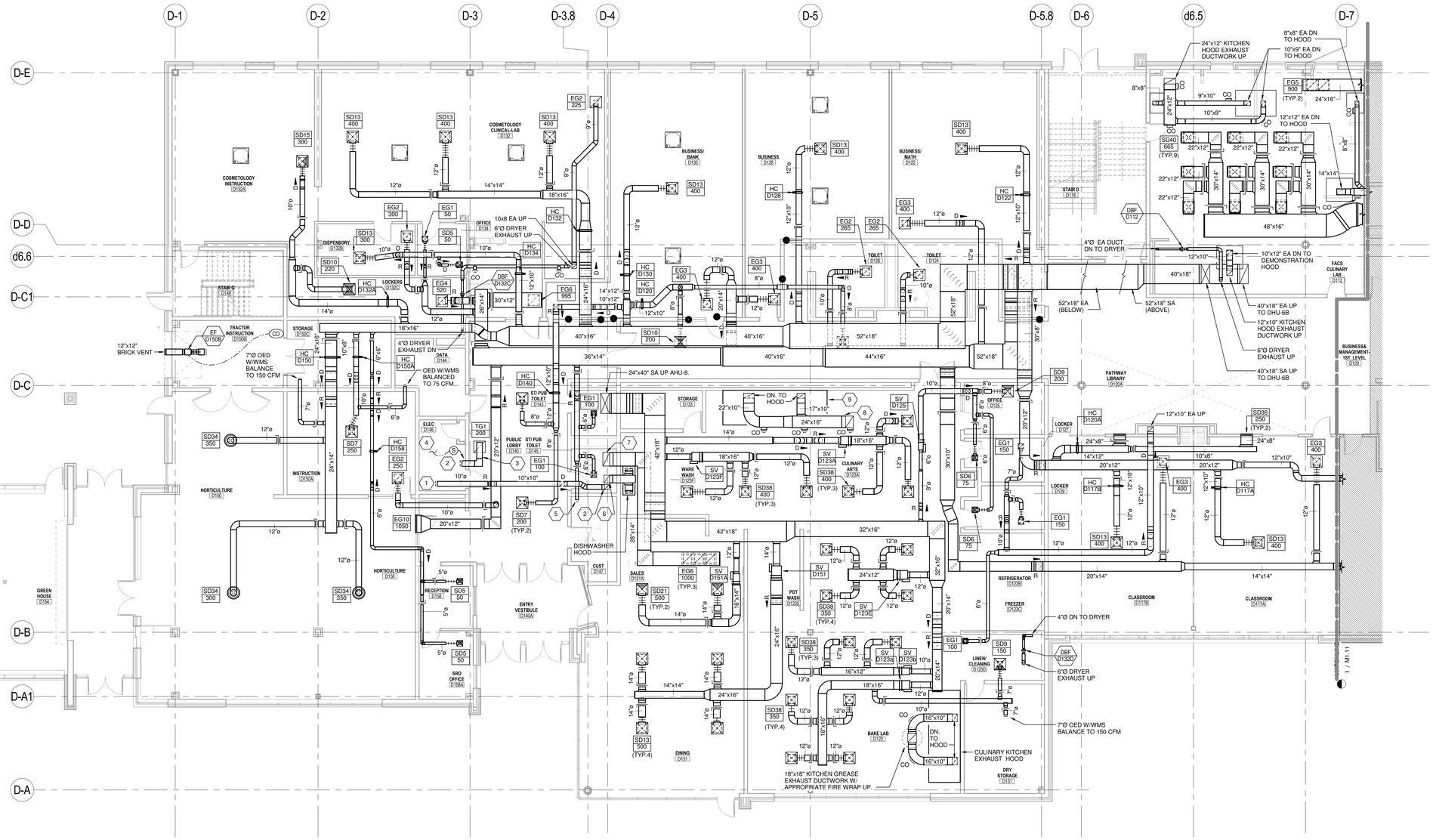
DRAWING NOTES

1. 10"Ø OED W/WMS BALANCE TO 350 CFM.
2. 10"x10" UP TO EF-D146 ON ROOF.
3. 12"x10" LINED TRANSFER DUCT.
4. TO EF-D146 ON ROOF.
5. 6"Ø OED W/WMS BALANCE TO 100 CFM.
6. 16"x12" DISHWASHER EXHAUST UP.
7. 28"x18" EA UP AHU-8.
8. 24"x16" KITCHEN GREASE EXHAUST DUCTWORK W/APPROPRIATE FIRE WRAP UP.
9. CULINARY KITCHEN EXHAUST HOOD.



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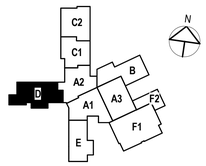

CONTENT:
FIRST FLOOR - DUCTWORK PLAN - AREA D

DRAWN BY:	S. DANBY
PROJECT NO:	12-067-00
DATE:	02/11/2016
REVISED:	
SCALE:	1/8" = 1'-0"

M1.16

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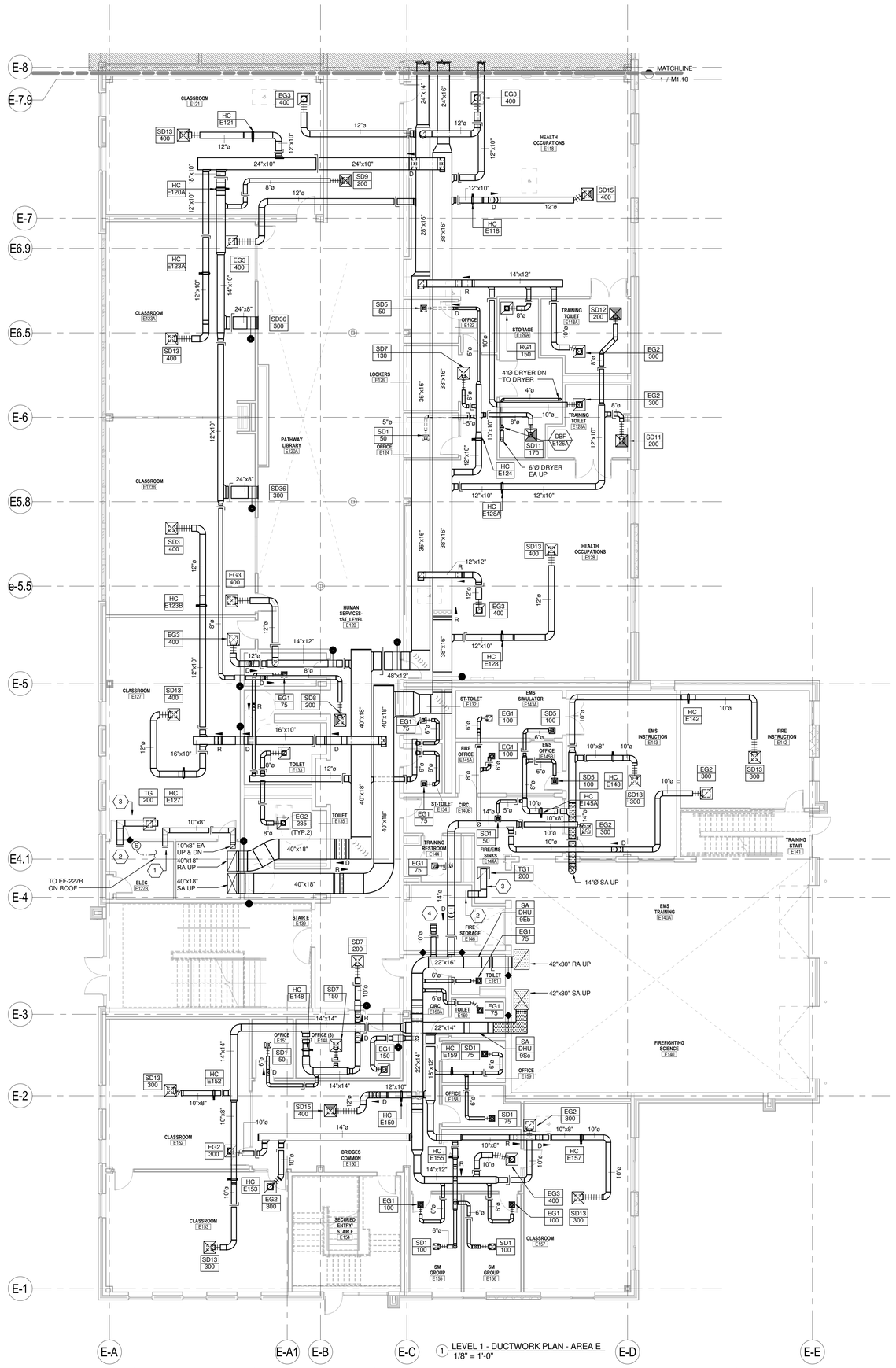
DRAWING NOTES

1. 10"x8" OED W/WMS BALANCE TO 350 CFM.
2. 12"x10" OED W/WMS.
3. 12"x10" LINED TRANSFER AIR DUCT.
4. 12"Ø OED W/WMS BALANCE TO 300 CFM.



1 LEVEL 1 - DUCTWORK PLAN - AREA E
1/8" = 1'-0"

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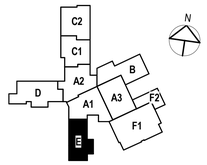

CONTENT:
FIRST FLOOR - DUCTWORK PLAN - AREA E

DRAWN BY:	S. DANBY
PROJECT NO:	12-067-00
DATE:	02/11/2016
REVISED:	
SCALE:	1/8" = 1'-0"

M1.17

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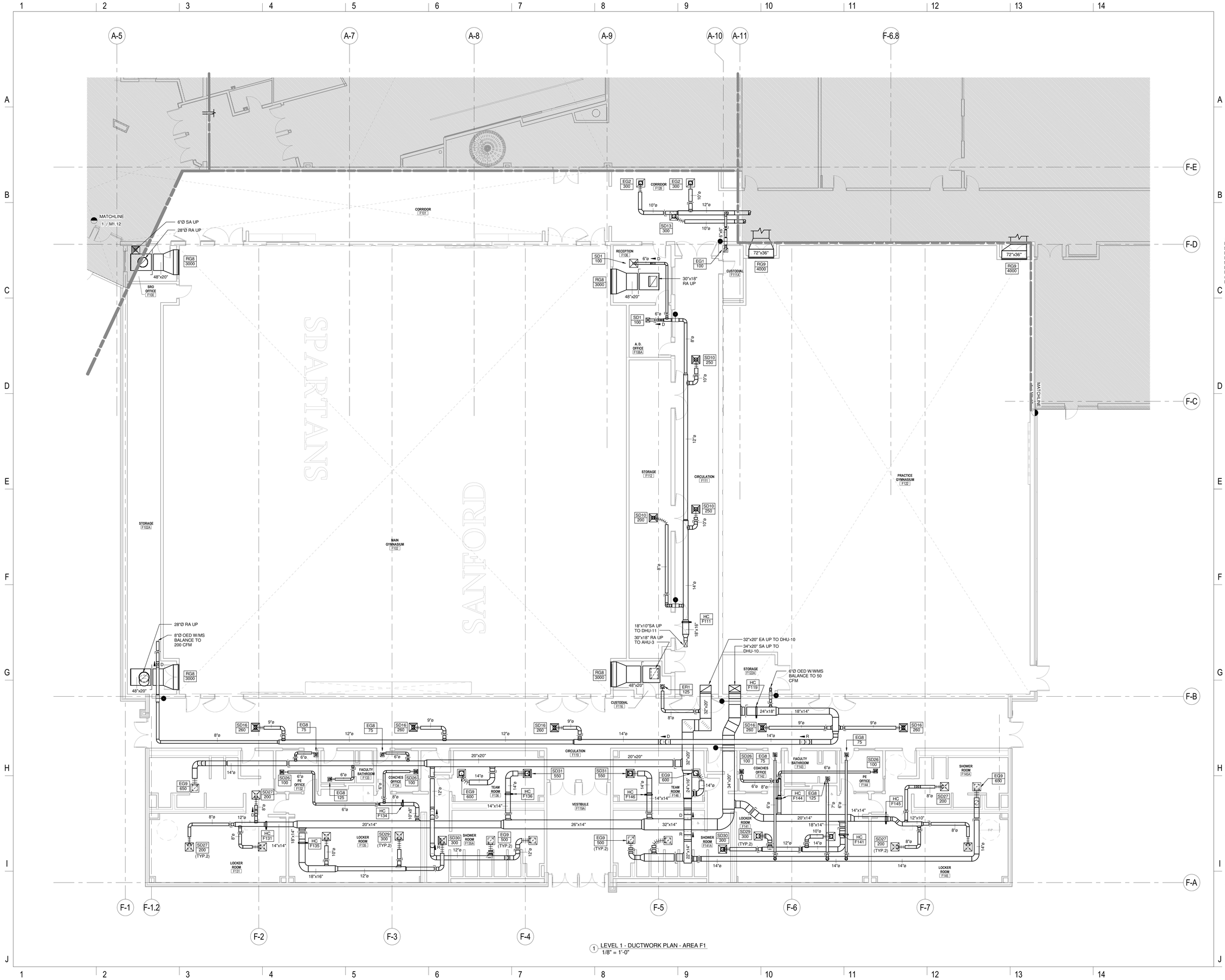

1 LEVEL 1 - DUCTWORK PLAN - AREA F1
1/8" = 1'-0"

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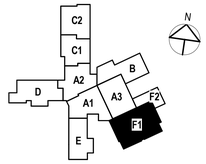

CONTENT:
FIRST FLOOR - DUCTWORK PLAN - AREA F1

DRAWN BY:	S. DANBY
PROJECT NO:	12-067-00
DATE:	02/11/2016
REVISED:	
SCALE:	1/8" = 1'-0"

M1.18

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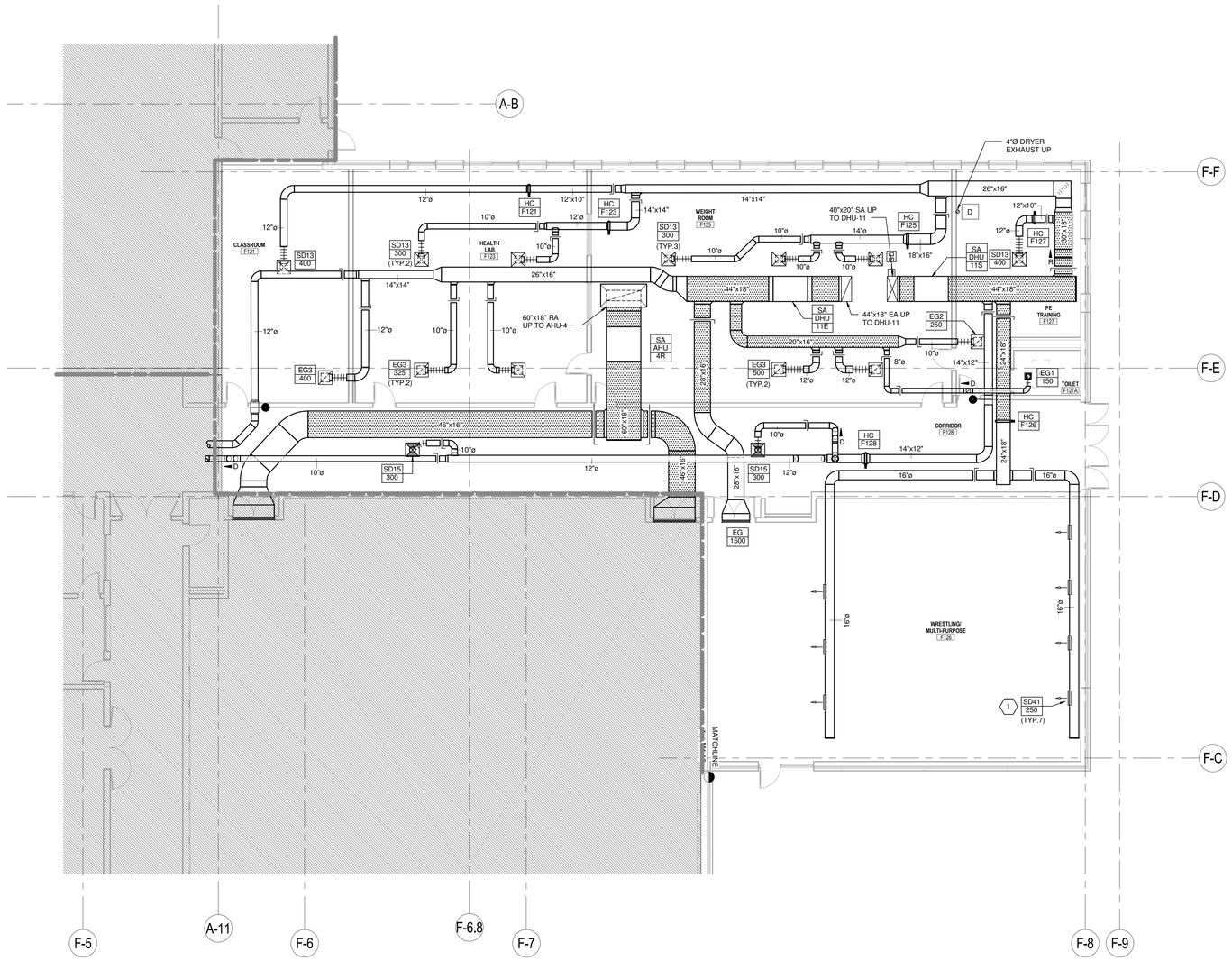
DRAWING NOTES

1. INSTALL SUPPLY REGISTER AT 0° ANGLE (PARALLEL TO FLOOR)



1 LEVEL 1 - DUCTWORK PLAN - AREA F2
1/8" = 1'-0"

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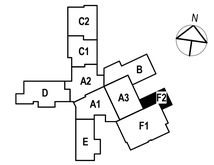

CONTENT:
FIRST FLOOR - DUCTWORK PLAN - AREA F2

DRAWN BY:	S. DANBY
PROJECT NO:	12-067-00
DATE:	02/11/2016
REVISED:	
SCALE:	1/8" = 1'-0"

M1.19

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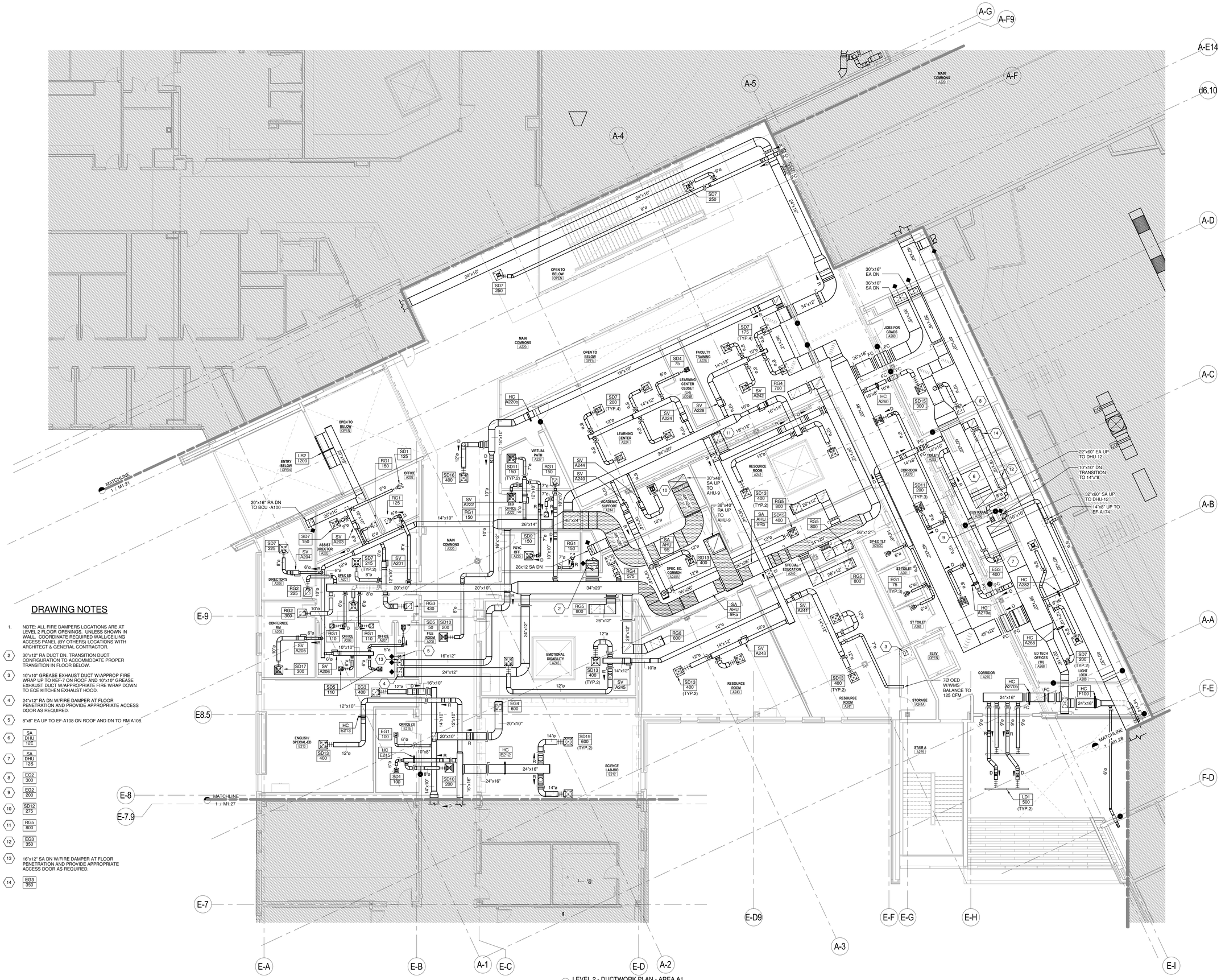

1 LEVEL 2 - DUCTWORK PLAN - AREA A1
1/8" = 1'-0"

DRAWING NOTES

1. NOTE: ALL FIRE DAMPERS LOCATIONS ARE AT LEVEL 2 FLOOR OPENINGS. UNLESS SHOWN IN WALL. COORDINATE REQUIRED WALL/CEILING ACCESS PANEL (BY OTHERS) LOCATIONS WITH ARCHITECT & GENERAL CONTRACTOR.

2. 30"x12" RA DUCT DN. TRANSITION DUCT CONFIGURATION TO ACCOMMODATE PROPER TRANSITION IN FLOOR BELOW.

3. 10"x10" GREASE EXHAUST DUCT W/APPROP FIRE WRAP UP TO KEF-7 ON ROOF AND 10"x10" GREASE EXHAUST DUCT W/APPROPRIATE FIRE WRAP DOWN TO ECE KITCHEN EXHAUST HOOD.

4. 24"x12" RA DN W/FIRE DAMPER AT FLOOR PENETRATION AND PROVIDE APPROPRIATE ACCESS DOOR AS REQUIRED.

5. 8"ø8" EA UP TO EF-A108 ON ROOF AND DN TO RM A108.

6. SA DHU 12E

7. SA DHU 12S

8. EG2 300

9. EG2 200

10. SD12 275

11. RG5 800

12. EG3 350

13. 16"x12" SA DN W/FIRE DAMPER AT FLOOR PENETRATION AND PROVIDE APPROPRIATE ACCESS DOOR AS REQUIRED.

14. EG3 350

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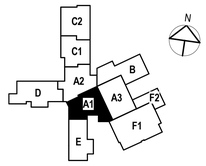

CONTENT:
SECOND FLOOR- DUCTWORK PLAN - AREA A1

DRAWN BY:	S. DANBY
PROJECT NO:	12-067-00
DATE:	02/11/2016
REVISED:	
SCALE:	1/8" = 1'-0"

M1.20

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DRAWING NOTES:

1. NOTE: ALL FIRE DAMPERS LOCATIONS ARE AT LEVEL 2 FLOOR OPENINGS. UNLESS SHOWN IN WALL. COORDINATE REQUIRED WALL/CEILING ACCESS PANEL (BY OTHERS) LOCATIONS WITH ARCHITECT & GENERAL CONTRACTOR.
2. 48"x18" SA DUCT UP TO DHU-6A & 40"x18" SA DN TO LEVEL 1 WITH SOUND ATTENUATOR IN RISER.
3. 14"x14" GREASE DUCT DN TO FACS CULINARY LAB.
4. RG1 100
5. MOUNT EF-202A ABOVE CEILING.
6. CONNECT DUCT TO AC UNIT INTAKE CONNECTION. BALANCE TO 30 CFM.
7. 24"x12" EA DUCT DN WITH SOUND ATTENUATOR IN RISER.
8. PROVIDE VINYL SOUND LAGGING AROUND ALL DUCTWORK TO EXTENT SHOWN & UP TO AHU CONNECTION. REFER TO DUCTWORK INSULATION SPECIFICATIONS FOR ADDITIONAL INFORMATION.
9. 12"x24" EA UP TO DHU-6A ON ROOF.
10. SENSOR CONTROL TO EF-D220 ON ROOF.
11. 10"Ø UP TO EF-D220 ON ROOF.

1 LEVEL 2 - DUCTWORK PLAN - AREA A2
1/8" = 1'-0"

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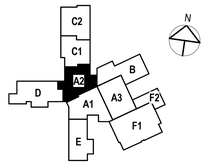

CONTENT:
SECOND FLOOR - DUCTWORK PLAN - AREA A2

DRAWN BY:	S. DANBY
PROJECT NO:	12-067-00
DATE:	02/11/2016
REVISED:	
SCALE:	1/8" = 1'-0"

M1.21

Project Phase
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1 LEVEL 2 - DUCTWORK PLAN - AREA A3
1/8" = 1'-0"

DRAWING NOTES

1. NOTE: ALL FIRE DAMPERS LOCATIONS ARE AT LEVEL 2 FLOOR OPENINGS. UNLESS SHOWN IN WALL. COORDINATE REQUIRED WALL/CEILING ACCESS PANEL (BY OTHERS) LOCATIONS WITH ARCHITECT & GENERAL CONTRACTOR.

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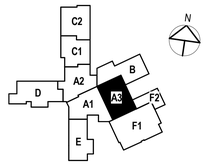

CONTENT:
SECOND FLOOR - DUCTWORK PLAN - AREA A3

DRAWN BY:	S. DANBY
PROJECT NO:	12-067-00
DATE:	02/11/2016
REVISED:	
SCALE:	1/8" = 1'-0"

M1.22

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1 LEVEL 2 - DUCTWORK PLAN - AREA B
1/8" = 1'-0"

DRAWING NOTES

1. NOTE: ALL FIRE DAMPERS LOCATIONS ARE AT LEVEL 2 FLOOR OPENINGS. UNLESS SHOWN IN WALL. COORDINATE REQUIRED WALL/CEILING ACCESS PANEL (BY OTHERS) LOCATIONS WITH ARCHITECT & GENERAL CONTRACTOR.

2. 10"Ø OED W/WMS.
3. 10"Ø UP TO EF-B228A ON ROOF.
4. 6"Ø OED W/WMS BALANCE TO 100 CFM.
5. 36"x20" SA & 30"x30" EA UP TO DHU-1B ON ROOF.
6. 4"Ø DRYER EXHAUST DUCT UP THRU ROOF AND GOOSE NECK. 4"Ø ON AND CONNECT TO DRYER IN CLOSET PROVIDE APPROPRIATE CLEAN OUTS AS SPECIFIED.
7. 8"Ø GREASE EXHAUST DUCT DOWN AND CONNECT TO 7"Ø CONNECTION LS KITCHEN TO KEF-8 ON ROOF.
8. PROVIDE LOW LEAKAGE AUTOMATIC CONTROL DAMPER IN RETURN AIR DUCT. DAMPER POSITION NORMALLY OPEN WHEN LS HOOD IS OFF. DAMPER SHALL BE CLOSED WHILE LS HOOD IS ON.
9. 10"x10" UP TO EF-B215C ON ROOF.
10. RG3 325
11. SD5 50
12. SA DHU 1BE
13. EG1 100
14. SA DHU 1BS
15. 6"Ø OED W/MS BALANCE TO 75 CFM.
16. PROVIDE VINYL SOUND LAGGING AROUND ALL DUCTWORK TO EXTENT SHOWN & UP TO AHU CONNECTION. REFER TO DUCTWORK INSULATION SPECIFICATIONS FOR ADDITIONAL INFORMATION.
17. SENSOR TO EF-B228A ON ROOF.
18. EG1 100
19. SA DHU 1AS
20. SA DHU 1AEa
21. SA DHU 1AEb

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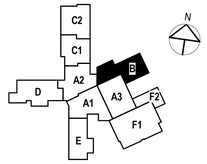

CONTENT:
SECOND FLOOR - DUCTWORK PLAN - AREA B

DRAWN BY:	S. DANBY
PROJECT NO:	12-067-00
DATE:	02/11/2016
REVISED:	
SCALE:	1/8" = 1'-0"

M1.23

Project Phase
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DRAWING NOTES

1. NOTE: ALL FIRE DAMPERS LOCATIONS ARE AT LEVEL 2 FLOOR OPENINGS. UNLESS SHOWN IN WALL. COORDINATE REQUIRED WALL/CEILING ACCESS PANEL (BY OTHERS) LOCATIONS WITH ARCHITECT & GENERAL CONTRACTOR.

(2) 12"x10" LINED TRANSFER DUCT.

1 LEVEL 2 - DUCTWORK PLAN - AREA C1
1/8" = 1'-0"

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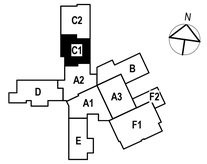

CONTENT:
SECOND FLOOR - DUCTWORK PLAN - AREA C1

DRAWN BY:	S. DANBY
PROJECT NO:	12-067-00
DATE:	02/11/2016
REVISED:	
SCALE:	1/8" = 1'-0"

M1.24

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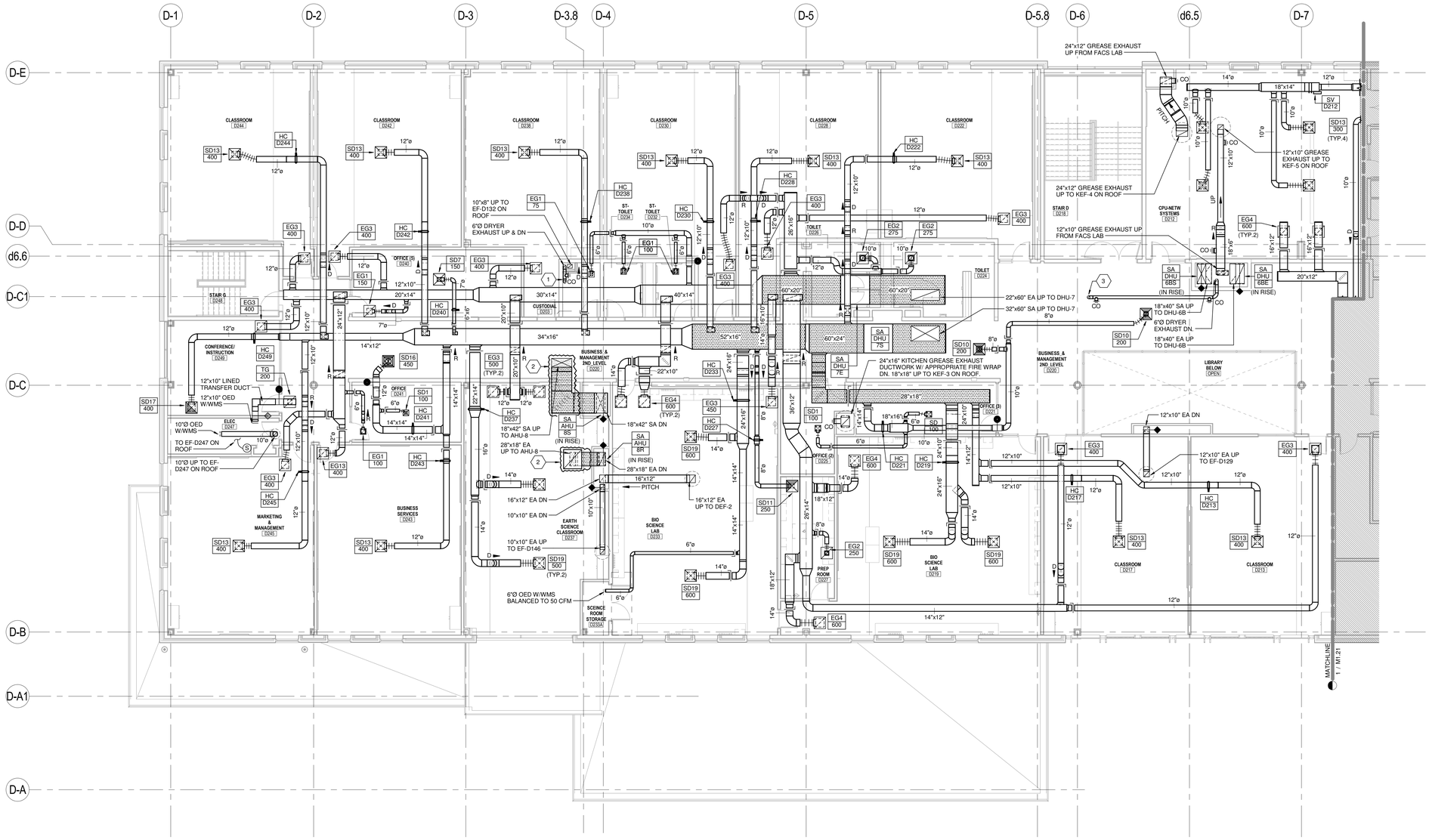
DRAWING NOTES

1. NOTE: ALL FIRE DAMPERS LOCATIONS ARE AT LEVEL 2 FLOOR OPENINGS. UNLESS SHOWN IN WALL. COORDINATE REQUIRED WALL/CEILING ACCESS PANEL (BY OTHERS) LOCATIONS WITH ARCHITECT & GENERAL CONTRACTOR.

2. PROVIDE VINYL SOUND LAGGING AROUND ALL DUCTWORK TO EXTENT SHOWN & UP TO AHU CONNECTION. REFER TO DUCTWORK INSULATION SPECIFICATIONS FOR ADDITIONAL INFORMATION.

3. 6"Ø DRYER EXHAUST UP TO ROOF & GOOSE 36" ABOVE ROOF.



1 LEVEL 2 - DUCTWORK PLAN - AREA D
1/8" = 1'-0"

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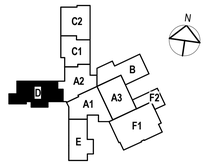

CONTENT:
SECOND FLOOR - DUCTWORK PLAN - AREA D

DRAWN BY:	S. DANBY
PROJECT NO:	12-067-00
DATE:	02/11/2016
REVISED:	
SCALE:	1/8" = 1'-0"

M1.26

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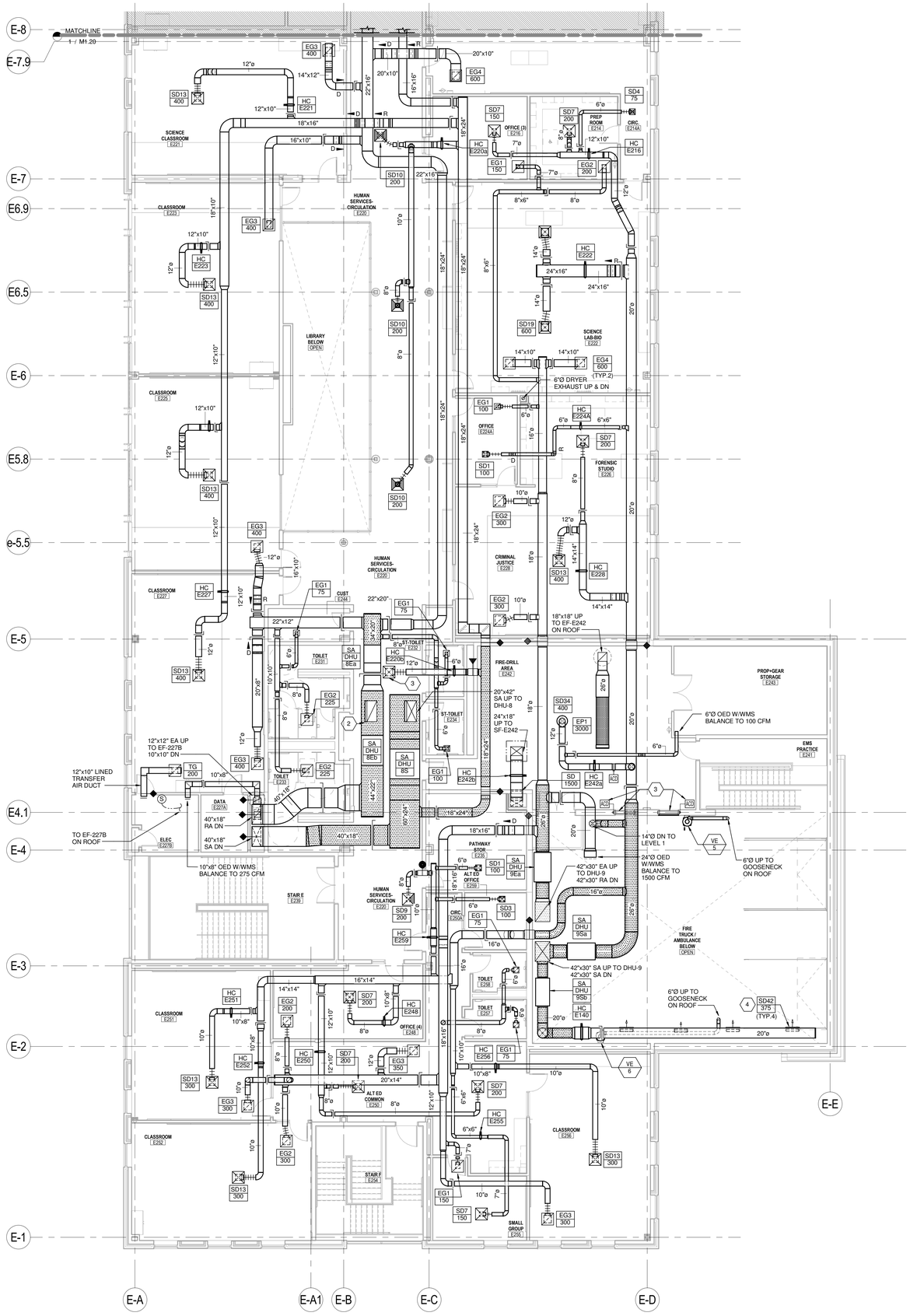

1 LEVEL 2 - DUCTWORK PLAN - AREA E
1/8" = 1'-0"

DRAWING NOTES

1. NOTE: ALL FIRE DAMPERS LOCATIONS ARE AT LEVEL 2 FLOOR OPENINGS. UNLESS SHOWN IN WALL. COORDINATE REQUIRED WALL/CEILING ACCESS PANEL (BY OTHERS) LOCATIONS WITH ARCHITECT & GENERAL CONTRACTOR.

2. 20"x42" EA UP TO DHU-8

3. SD13 400

4. INSTALL SUPPLY REGISTER AT 0° ANGLE (PARALLEL TO FLOOR)

5. 40"x12" TRANSFER GRILLE ALL WALL UNDER WINDOW. COORDINATE EXACT LOCATION WITH ARCHITECT. INSTALL LOW LEAKAGE AUTOMATIC CONTROL DAMPER (SIMILAR TO RUSKIN MODEL EAMS 060.) ON BACK SIZE OF THE TRANSFER GRILLE. COORDINATE EXACT SIZE OF DAMPER WITH OPENING IN WALL. ACTUATOR TO BE IN AIR STREAM TYPE. REFER TO BAS SPECIFICATIONS FOR FIRE DRILL ROOM APPROPRIATE CONTROLS AND CONTROL WIRING TO ALL COMPONENTS ASSOCIATED WITH THEATRICAL SMOKE EVACUATION SYSTEM FOR THIS AREA ONLY

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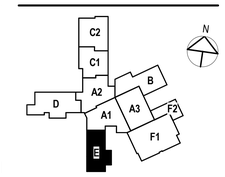

CONTENT:
SECOND FLOOR - DUCTWORK PLAN - AREA E

DRAWN BY:	S. DANBY
PROJECT NO:	12-067-00
DATE:	02/11/2016
REVISED:	
SCALE:	1/8" = 1'-0"

M1.27

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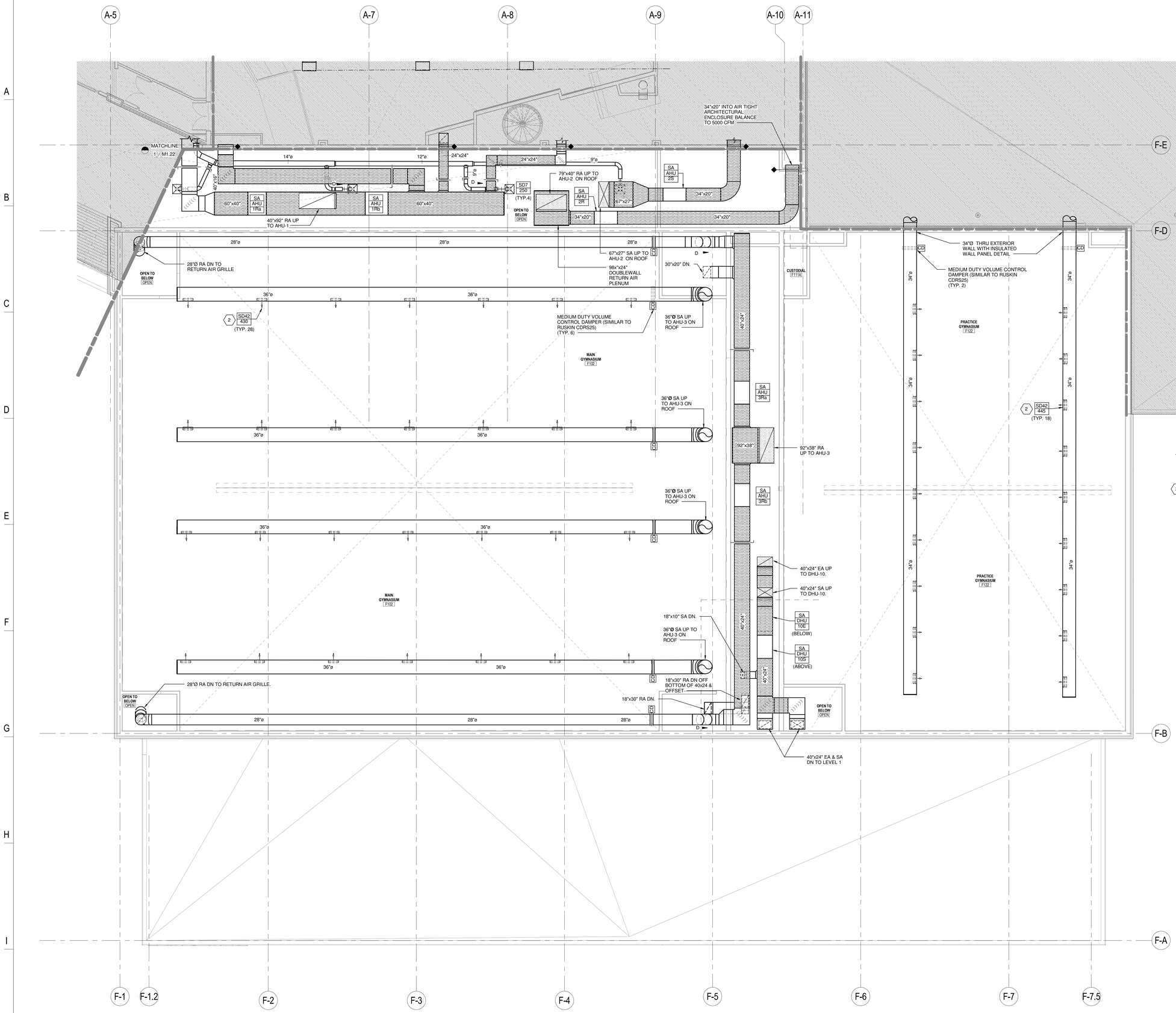

1 LEVEL 2 - DUCTWORK PLAN - AREA F1
1/8" = 1'-0"

DRAWING NOTES

1. NOTE: ALL FIRE DAMPERS LOCATIONS ARE AT LEVEL 2 FLOOR OPENINGS. UNLESS SHOWN IN WALL. COORDINATE REQUIRED WALL/CEILING ACCESS PANEL (BY OTHERS) LOCATIONS WITH ARCHITECT & GENERAL CONTRACTOR.

2. INSTALL SUPPLY REGISTER AT 45° ANGLE.

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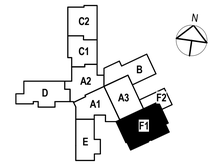

CONTENT:
SECOND FLOOR - DUCTWORK PLAN - AREA F1

DRAWN BY:	S. DANBY
PROJECT NO:	12-067-00
DATE:	02/11/2016
REVISED:	
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M1.28

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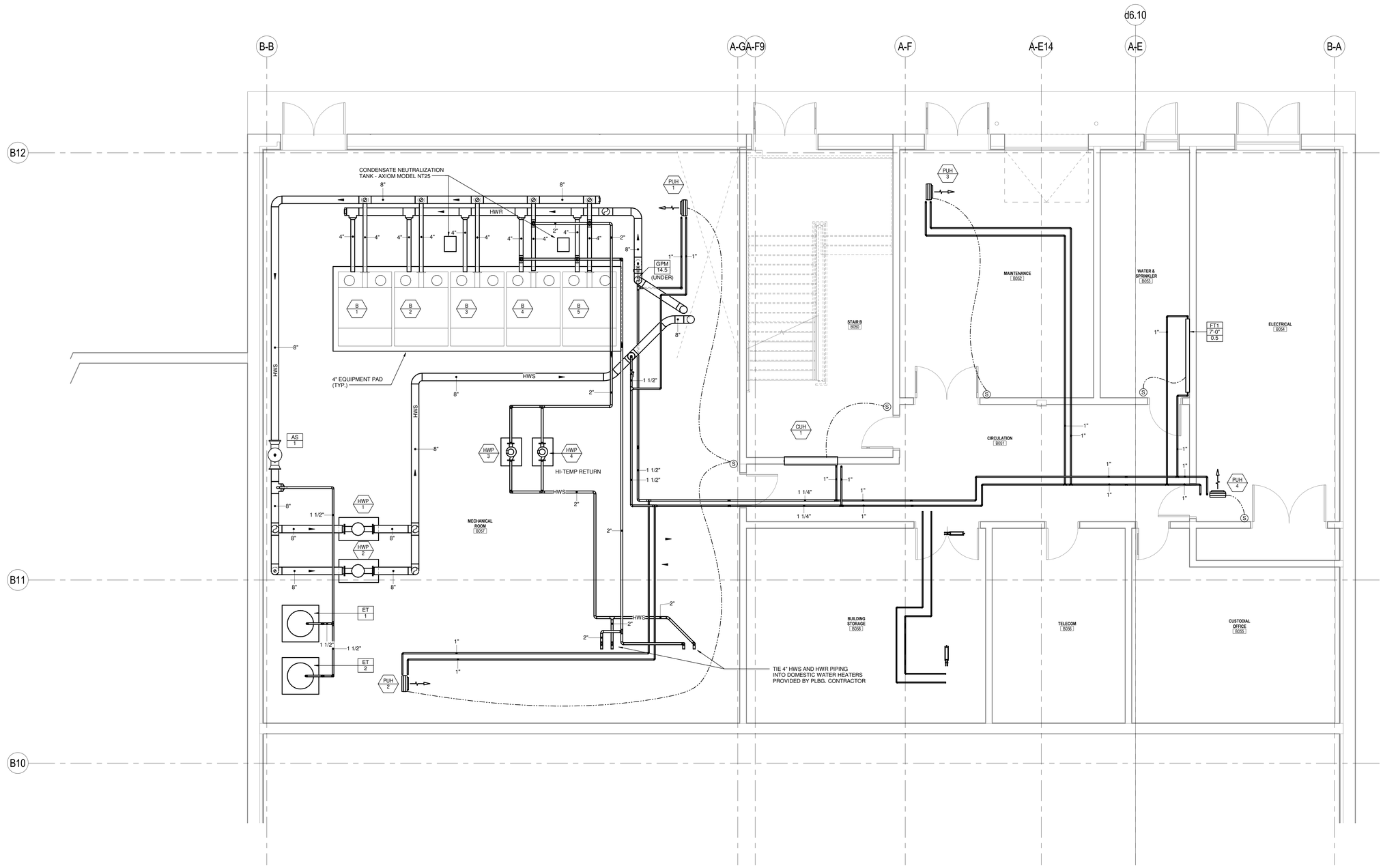
DRAWING NOTES

1. PROVIDE THERMAL EXPANSION COMPENSATION (ANCHORS, GUIDES AND EXPANSION LOOPS WHERE REQUIRED. REFER TO SPECIFICATION FOR ADDITIONAL INFORMATION.
2. ALL RUN-OUT HEATING HOT WATER PIPING TO MORE THAN 2 HEATING TERMINAL DEVICES SHALL HAVE ISOLATION VALVES ON BOTH SUPPLY AND RETURN AND A BALANCE VALVE ON THE RETURN SIDE.
3. PROVIDE CO2 SENSORS IN ALL SPACES ASSOCIATED WITH MEETING ROOMS, CONFERENCE ROOMS, DINING SPACES, LIBRARY SPACES, ALL GYMS AND AUDITORIUM.
4. REFER TO DUCTWORK DRAWINGS FOR SENSORS AND/ OR THERMOSTATS NOT ASSOCIATED WITH HYDRONIC TERMINAL DEVICES.



1 BASEMENT - PIPING PLAN
1/4" = 1'-0"

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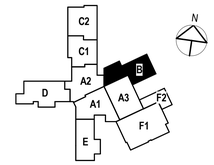

CONTENT:
BASEMENT PIPING PLAN

DRAWN BY:	D. Elliott
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DATE:	02/11/2016
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SCALE:	1/4" = 1'-0"

M2.09

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1 LEVEL 1 - PIPING PLAN - AREA A1
1/8" = 1'-0"

DRAWING NOTES

1. PROVIDE THERMAL EXPANSION COMPENSATION (ANCHORS, GUIDES AND EXPANSION LOOPS WHERE REQUIRED. REFER TO SPECIFICATION FOR ADDITIONAL INFORMATION.
2. ALL RUN-OUT HEATING HOT WATER PIPING TO MORE THAN 2 HEATING TERMINAL DEVICES SHALL HAVE ISOLATION VALVES ON BOTH SUPPLY AND RETURN AND A BALANCE VALVE ON THE RETURN SIDE.
3. PROVIDE CO2 SENSORS IN ALL SPACES ASSOCIATED WITH MEETING ROOMS, CONFERENCE ROOMS, DINING SPACES, LIBRARY SPACES, ALL GYMS AND AUDITORIUM.
4. REFER TO DUCTWORK DRAWINGS FOR SENSORS AND/ OR THERMOSTATS NOT ASSOCIATED WITH HYDRONIC TERMINAL DEVICES.

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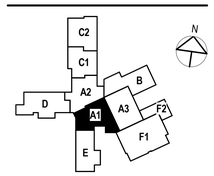

CONTENT:
FIRST FLOOR - PIPING PLAN - AREA A1

DRAWN BY:	D. Elliott
PROJECT NO:	12-067-00
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SCALE:	1/8" = 1'-0"

M2.10

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1 LEVEL 1 - PIPING PLAN - AREA A2
1/8" = 1'-0"

DRAWING NOTES

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Sanford School Department and State of Maine Department of Education

SANFORD HIGH SCHOOL and TECHNICAL CENTER

SANFORD, ME 04073

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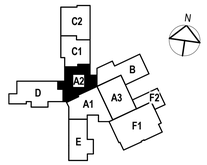

CONTENT:
FIRST FLOOR - PIPING PLAN - AREA A2

DRAWN BY:	D. Elliott
PROJECT NO:	12-067-00
DATE:	02/11/2016
REVISED:	
SCALE:	1/8" = 1'-0"

M2.11

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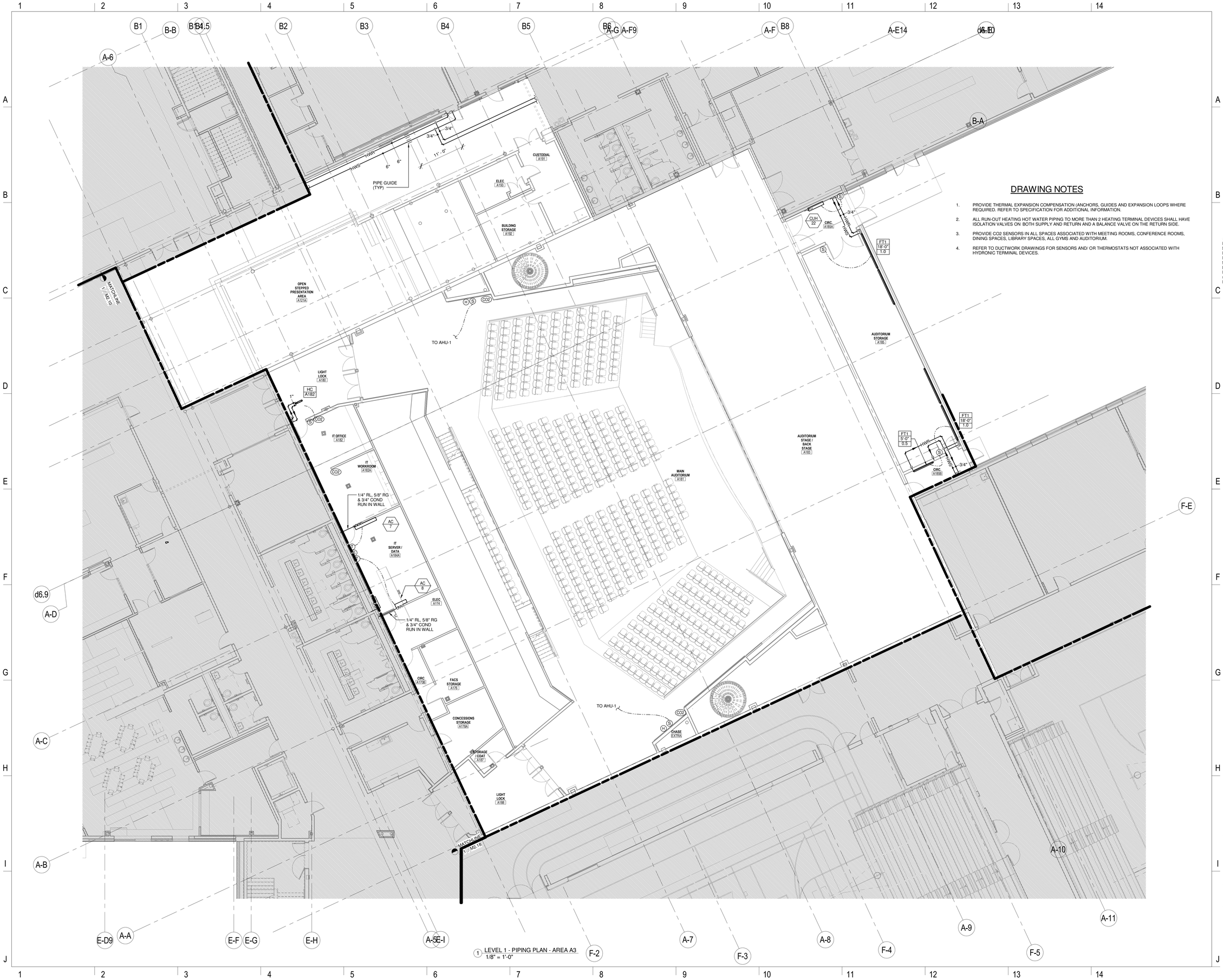

1 LEVEL 1 - PIPING PLAN - AREA A3
1/8" = 1'-0"

DRAWING NOTES

1. PROVIDE THERMAL EXPANSION COMPENSATION (ANCHORS, GUIDES AND EXPANSION LOOPS WHERE REQUIRED. REFER TO SPECIFICATION FOR ADDITIONAL INFORMATION.
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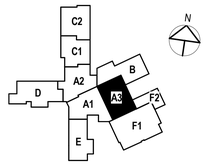

CONTENT:
FIRST FLOOR - PIPING PLAN - AREA A3

DRAWN BY:	D. Elliott
PROJECT NO:	12-067-00
DATE:	02/11/2016
REVISED:	
SCALE:	1/8" = 1'-0"

M2.12

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1 LEVEL 1 - PIPING PLAN - AREA B
1/8" = 1'-0"

DRAWING NOTES

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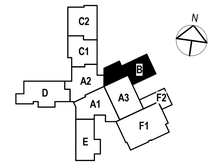

CONTENT:
FIRST FLOOR - PIPING PLAN - AREA B

DRAWN BY:	D. Elliott
PROJECT NO:	12-067-00
DATE:	02/11/2016
REVISED:	
SCALE:	1/8" = 1'-0"

M2.13

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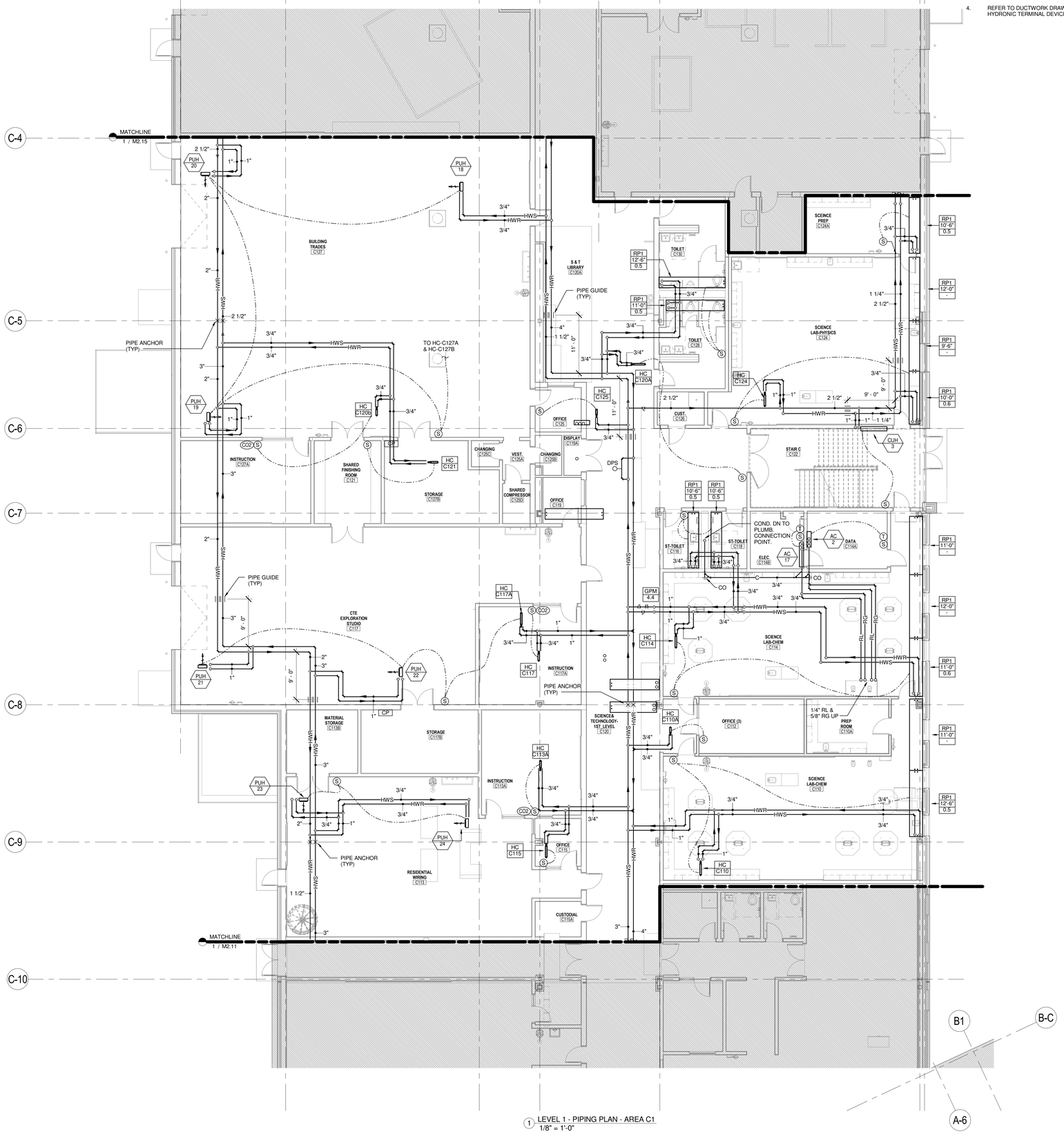

1 LEVEL 1 - PIPING PLAN - AREA C1
1/8" = 1'-0"

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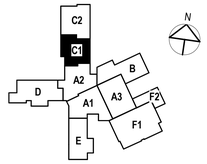

CONTENT:
FIRST FLOOR - PIPING PLAN - AREA C1

DRAWN BY:	D. Elliott
PROJECT NO:	12-067-00
DATE:	02/11/2016
REVISED:	
SCALE:	1/8" = 1'-0"

M2.14

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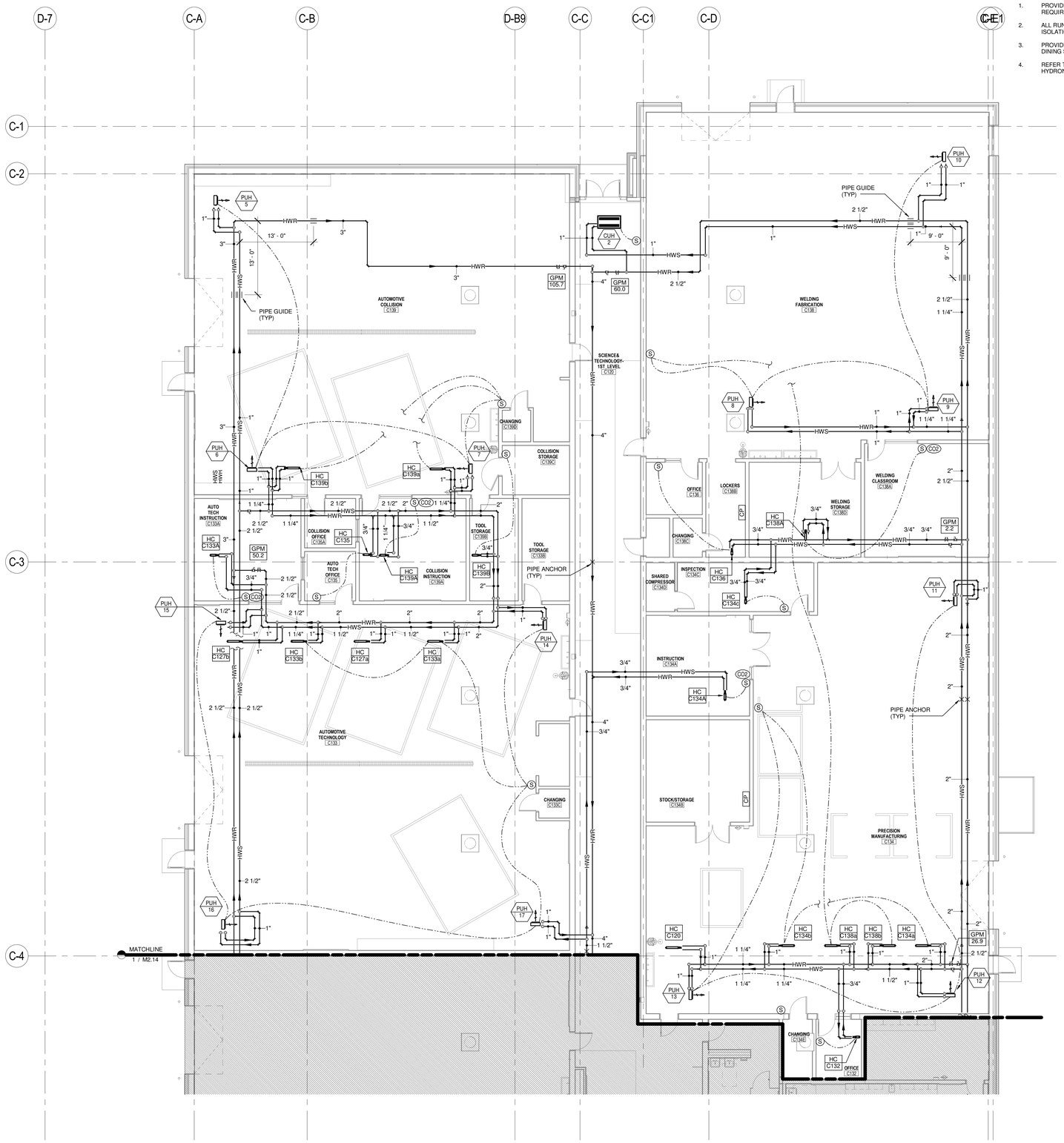

1 LEVEL 1 - PIPING PLAN - AREA C2
1/8" = 1'-0"

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SANFORD, ME 04073

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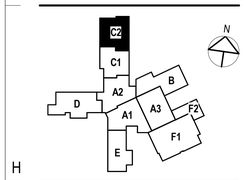

CONTENT:
FIRST FLOOR - PIPING PLAN - AREA C2

DRAWN BY:	D. Elliott
PROJECT NO:	12-067-00
DATE:	02/11/2016
REVISED:	
SCALE:	1/8" = 1'-0"

M2.15

Project Phase
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DRAWING NOTES

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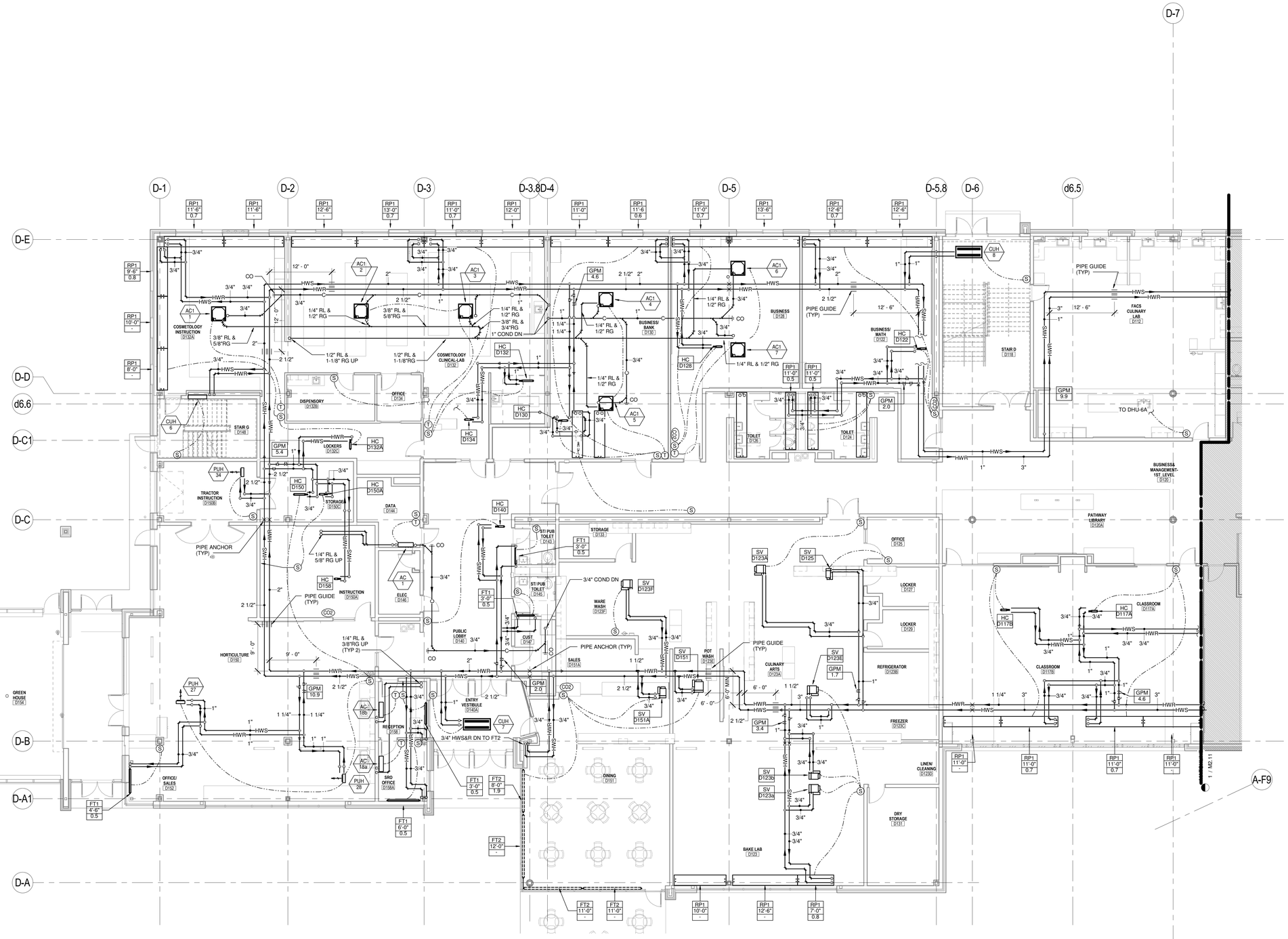

1 LEVEL 1 - PIPING PLAN - AREA D
1/8" = 1'-0"

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SANFORD HIGH SCHOOL and TECHNICAL CENTER

SANFORD, ME 04073

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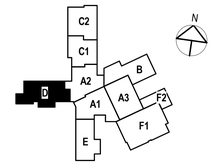

CONTENT:
FIRST FLOOR - PIPING PLAN - AREA D

DRAWN BY:	D. Elliott
PROJECT NO:	12-067-00
DATE:	02/11/2016
REVISED:	
SCALE:	1/8" = 1'-0"

M2.16

Project Phase
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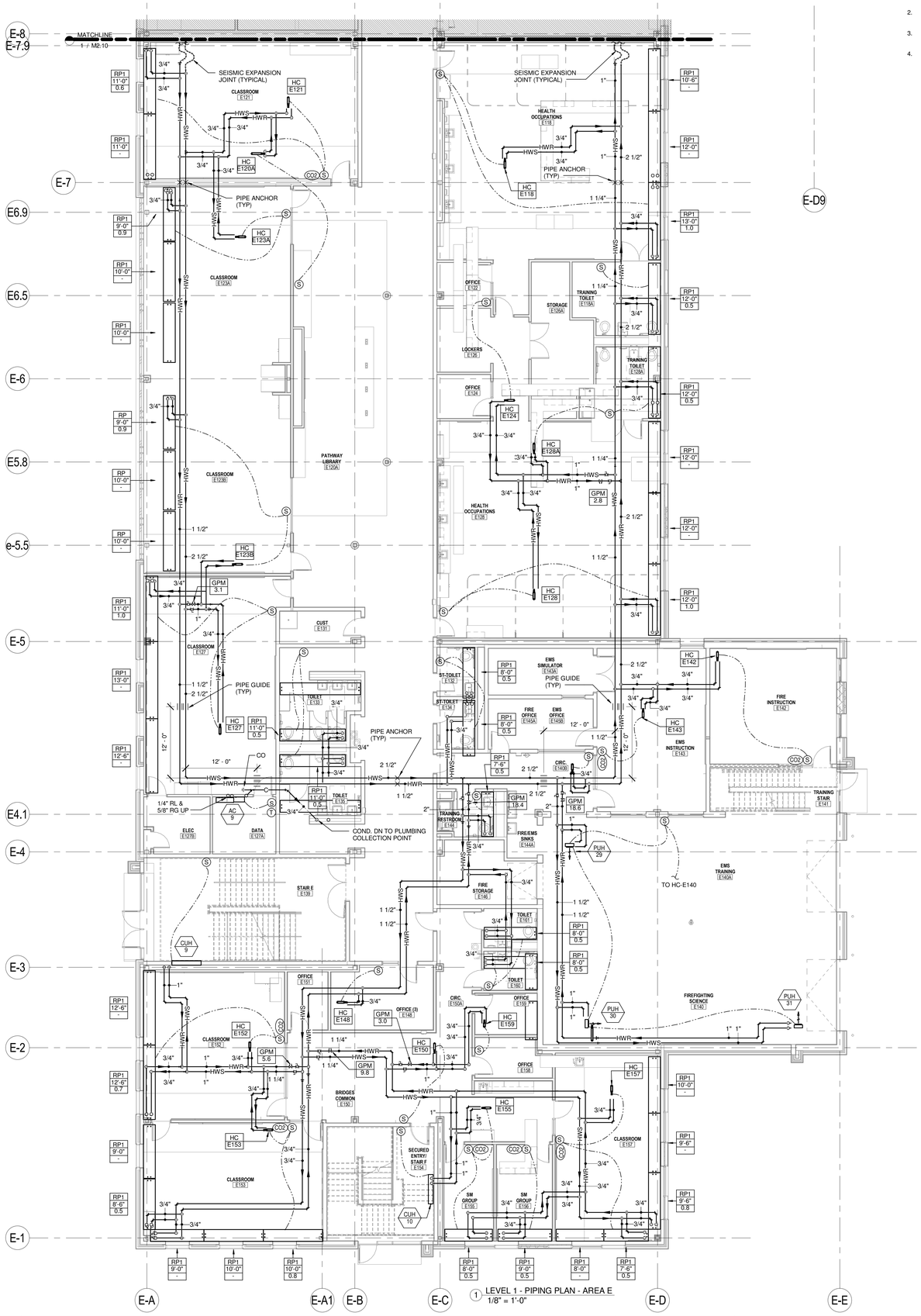

1 LEVEL 1 - PIPING PLAN - AREA E
1/8" = 1'-0"

DRAWING NOTES

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SANFORD, ME 04073

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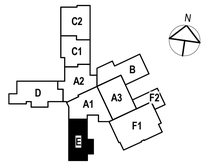

CONTENT:
FIRST FLOOR - PIPING PLAN - AREA E

DRAWN BY:	D. Elliott
PROJECT NO:	12-067-00
DATE:	02/11/2016
REVISED:	
SCALE:	1/8" = 1'-0"

M2.17

Project Phase
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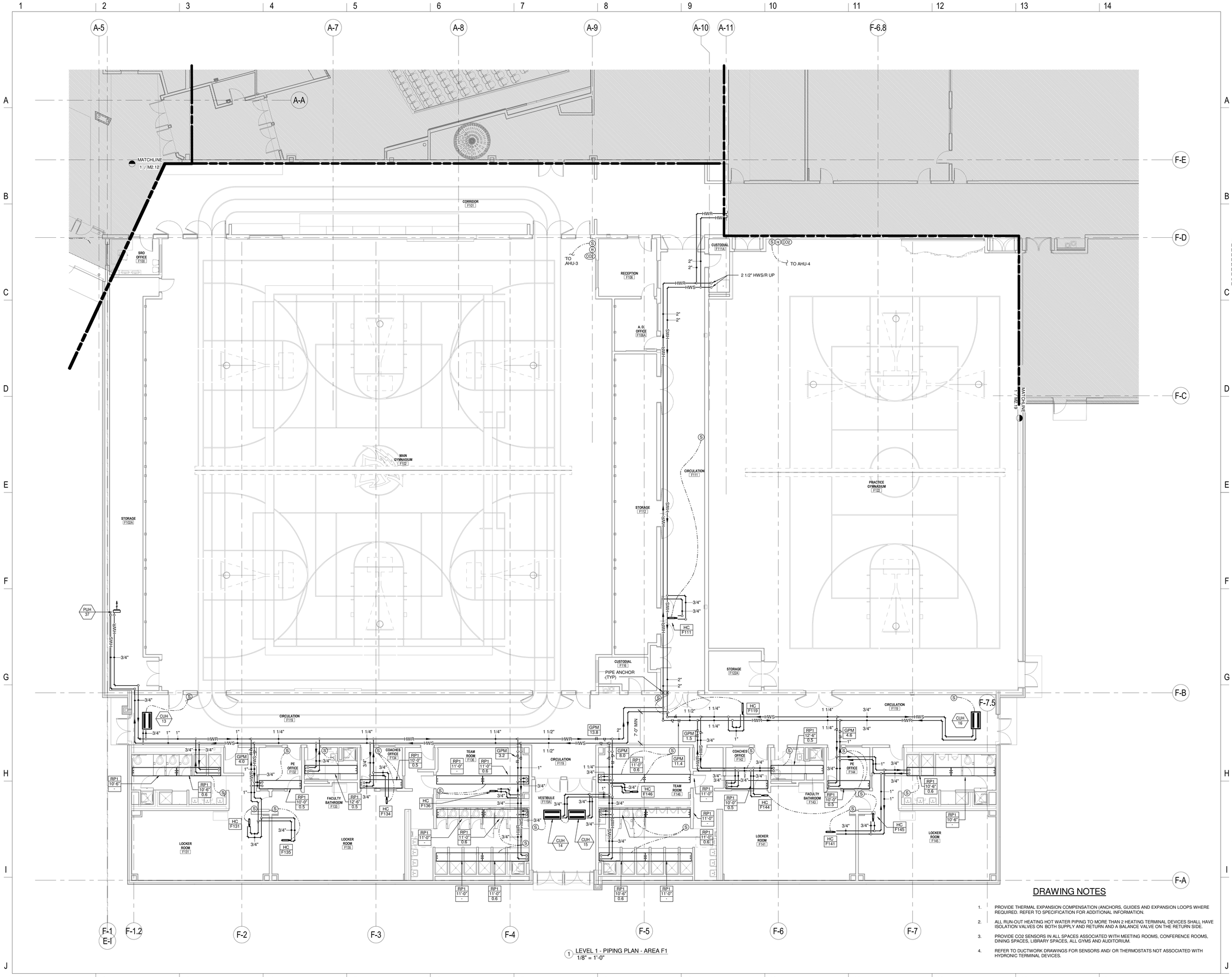

1 LEVEL 1 - PIPING PLAN - AREA F1
1/8" = 1'-0"

DRAWING NOTES

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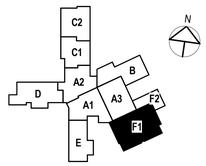

CONTENT:
FIRST FLOOR - PIPING PLAN - AREA F1

DRAWN BY:	D. Elliott
PROJECT NO:	12-067-00
DATE:	02/11/2016
REVISED:	
SCALE:	1/8" = 1'-0"

M2.18

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DRAWING NOTES

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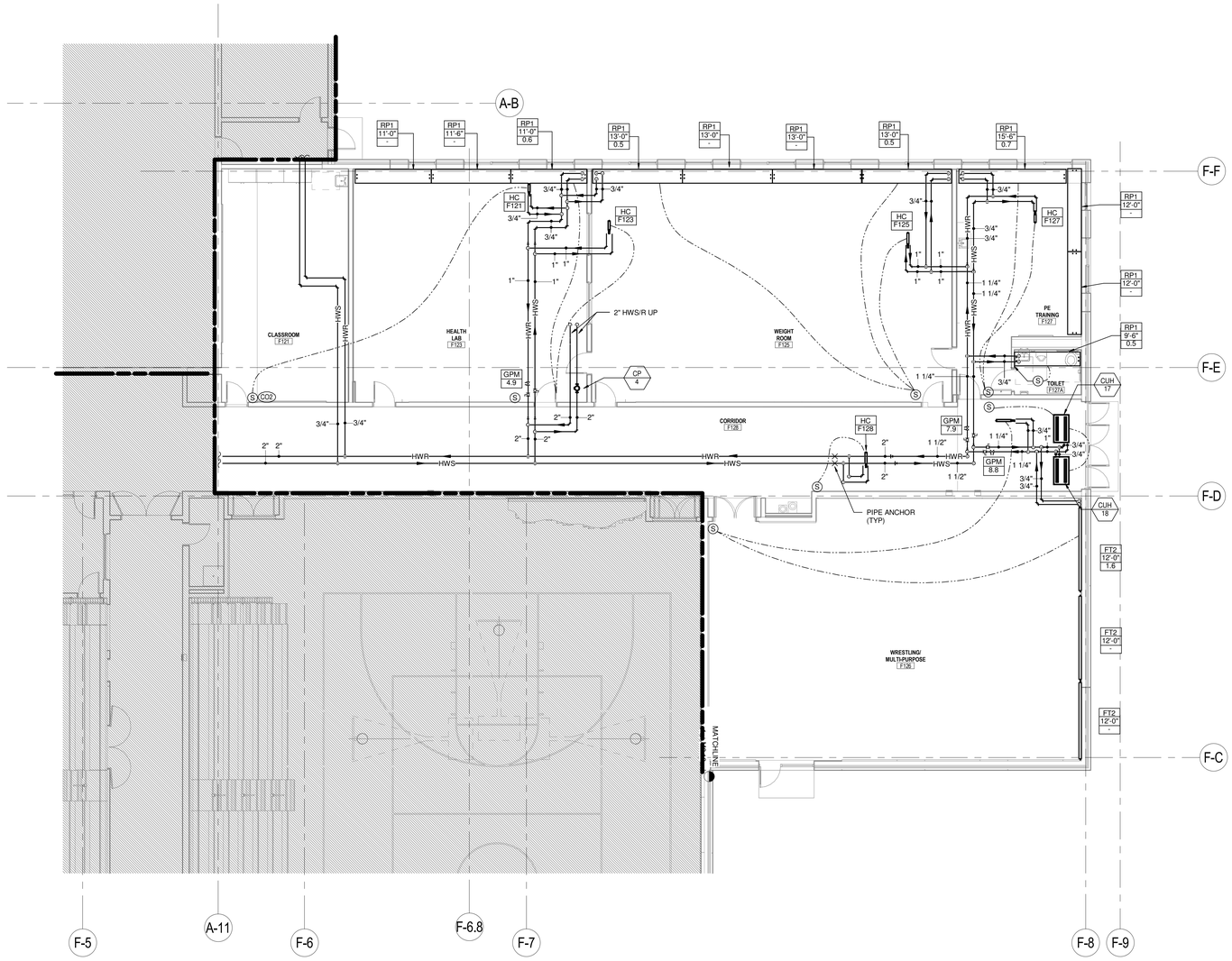

1 LEVEL 1 - PIPING PLAN - AREA F2
1/8" = 1'-0"

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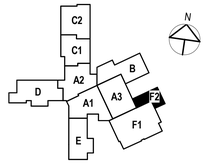

CONTENT:
FIRST FLOOR - PIPING PLAN - AREA F2

DRAWN BY:	D. Elliott
PROJECT NO:	12-067-00
DATE:	02/11/2016
REVISED:	
SCALE:	1/8" = 1'-0"

M2.19

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1 LEVEL 2 - PIPING PLAN - AREA A1
1/8" = 1'-0"

DRAWING NOTES

1. PROVIDE THERMAL EXPANSION COMPENSATION (ANCHORS, GUIDES AND EXPANSION LOOPS WHERE REQUIRED. REFER TO SPECIFICATION FOR ADDITIONAL INFORMATION.
2. ALL RUN-OUT HEATING HOT WATER PIPING TO MORE THAN 2 HEATING TERMINAL DEVICES SHALL HAVE ISOLATION VALVES ON BOTH SUPPLY AND RETURN AND A BALANCE VALVE ON THE RETURN SIDE.
3. PROVIDE CO2 SENSORS IN ALL SPACES ASSOCIATED WITH MEETING ROOMS, CONFERENCE ROOMS, DINING SPACES, LIBRARY SPACES, ALL GYMS AND AUDITORIUM.
4. REFER TO DUCTWORK DRAWINGS FOR SENSORS AND/ OR THERMOSTATS NOT ASSOCIATED WITH HYDRONIC TERMINAL DEVICES.

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Sanford School Department and State of Maine Department of Education

SANFORD HIGH SCHOOL and TECHNICAL CENTER

SANFORD, ME 04073

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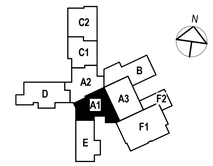

CONTENT:
SECOND FLOOR - PIPING PLAN - AREA A1

DRAWN BY:	D. Elliott
PROJECT NO:	12-067-00
DATE:	02/11/2016
REVISED:	
SCALE:	1/8" = 1'-0"

M2.20

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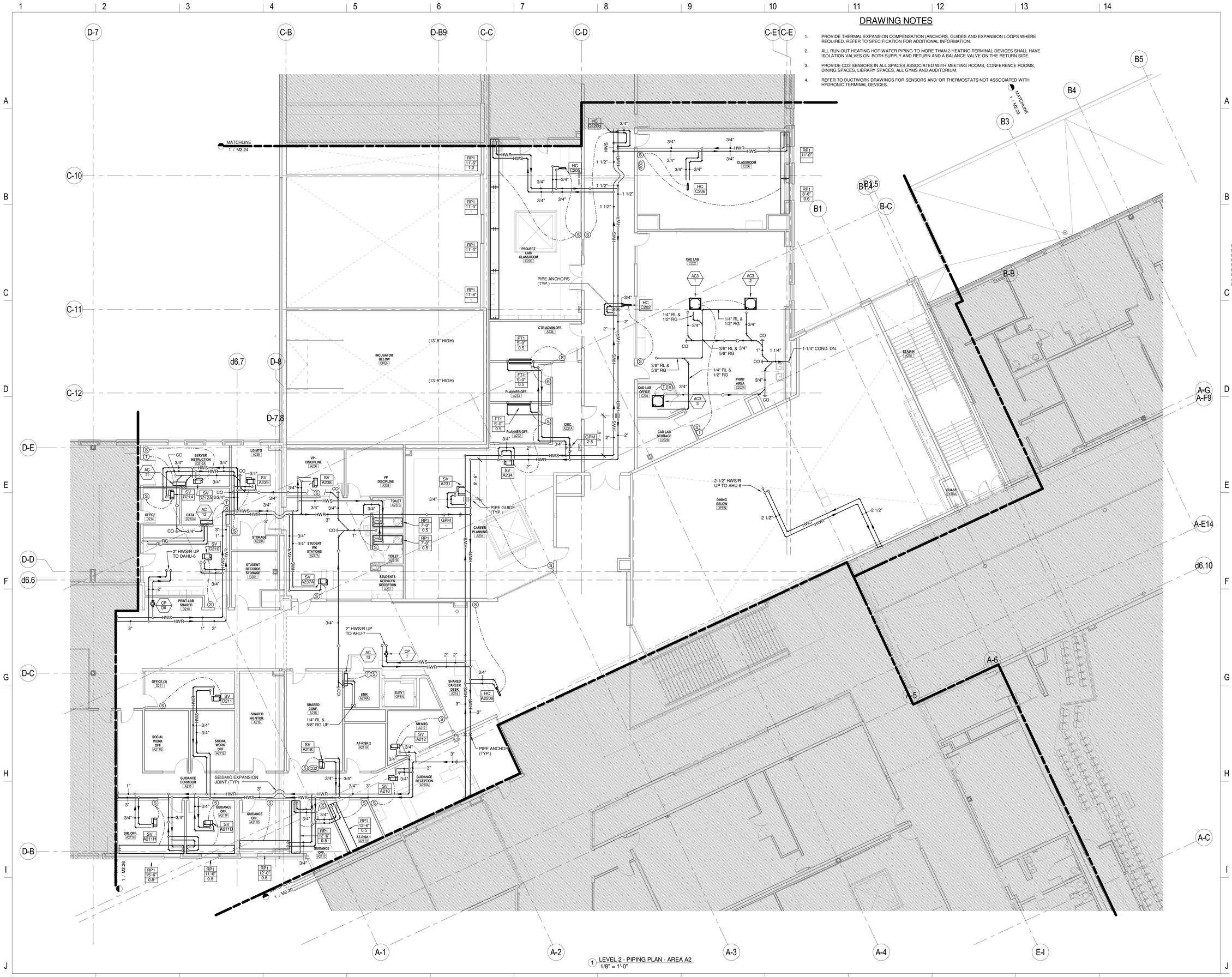

1 LEVEL 2 - PIPING PLAN - AREA A2
1/8" = 1'-0"

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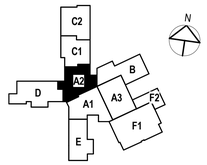

CONTENT:
SECOND FLOOR - PIPING PLAN - AREA A2

DRAWN BY:	D. Elliott
PROJECT NO:	12-067-00
DATE:	02/11/2016
REVISED:	
SCALE:	1/8" = 1'-0"

M2.21

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1 LEVEL 2 - PIPING PLAN - AREA A3
1/8" = 1'-0"

DRAWING NOTES

1. PROVIDE THERMAL EXPANSION COMPENSATION (ANCHORS, GUIDES AND EXPANSION LOOPS WHERE REQUIRED. REFER TO SPECIFICATION FOR ADDITIONAL INFORMATION.
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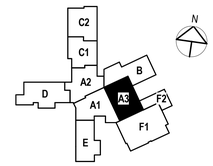
NO.	DESCRIPTION	DATE



CONTENT:
SECOND FLOOR - PIPING PLAN - AREA A3

DRAWN BY:	D. Elliott
PROJECT NO:	12-067-00
DATE:	02/11/2016
REVISED:	
SCALE:	1/8" = 1'-0"

M2.22

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1 LEVEL 2 - PIPING PLAN - AREA B
1/8" = 1'-0"

DRAWING NOTES

1. PROVIDE THERMAL EXPANSION COMPENSATION (ANCHORS, GUIDES AND EXPANSION LOOPS WHERE REQUIRED. REFER TO SPECIFICATION FOR ADDITIONAL INFORMATION.
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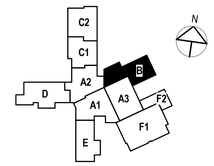

CONTENT:
SECOND FLOOR - PIPING PLAN - AREA B

DRAWN BY:	D. Elliott
PROJECT NO:	12-067-00
DATE:	02/11/2016
REVISED:	
SCALE:	1/8" = 1'-0"

M2.23

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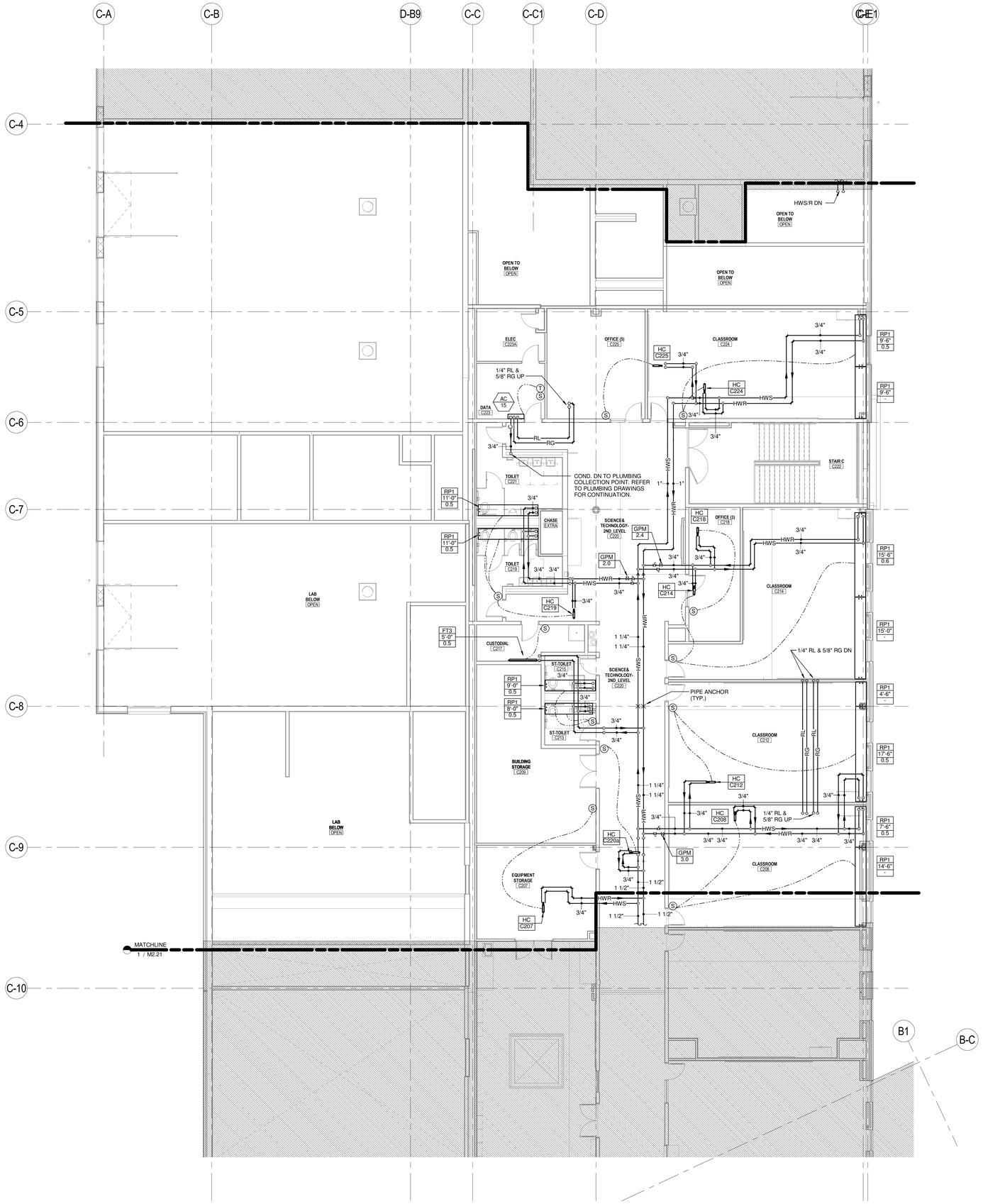

1 LEVEL 2 - PIPING PLAN - AREA C1
1/8" = 1'-0"

DRAWING NOTES

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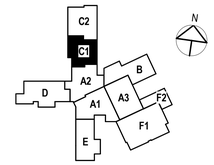

CONTENT:
SECOND FLOOR - PIPING PLAN - AREA C1

DRAWN BY:	D. Elliott
PROJECT NO:	12-067-00
DATE:	02/11/2016
REVISED:	
SCALE:	1/8" = 1'-0"

M2.24

Project Phase
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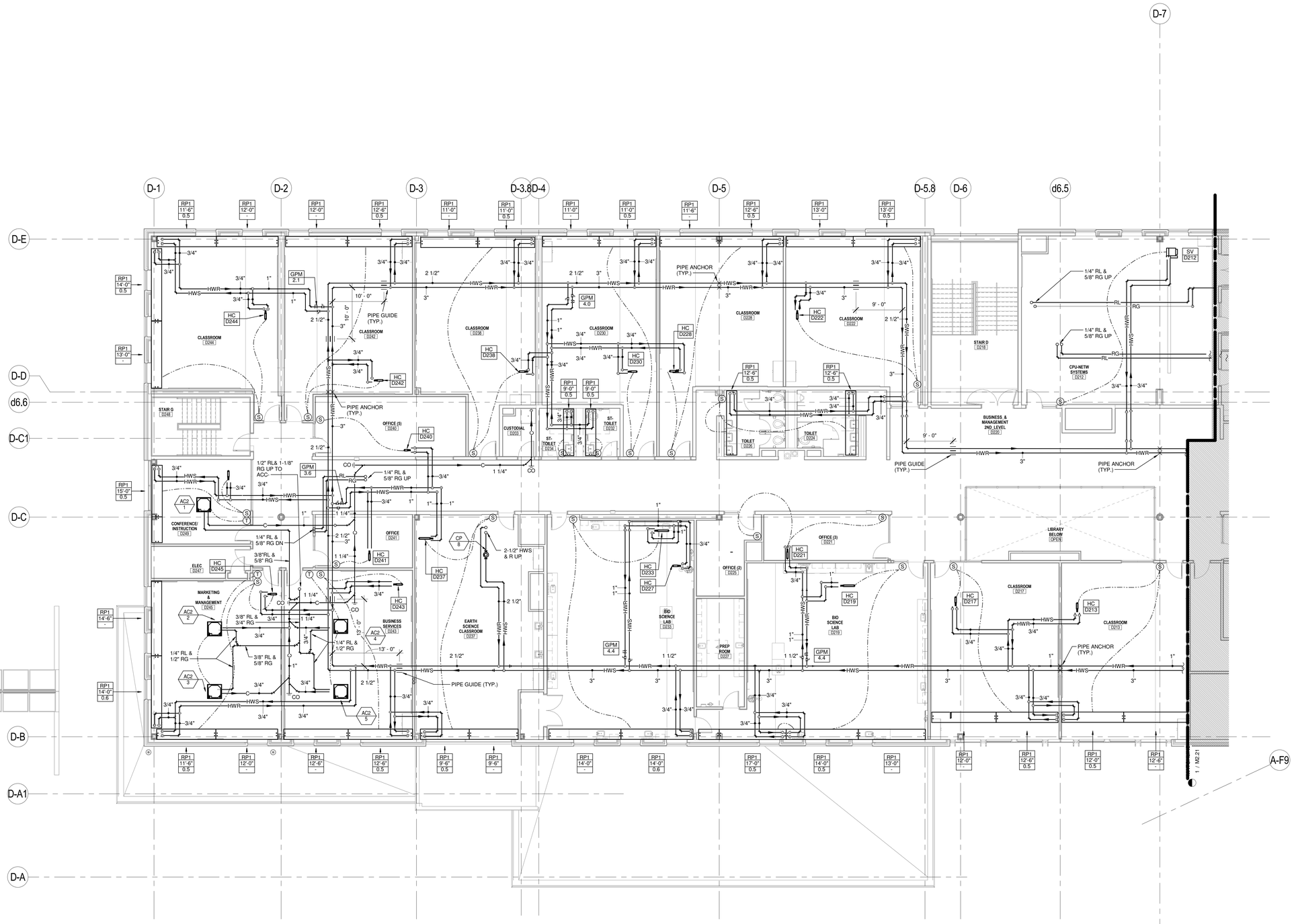

1 LEVEL 2 - PIPING PLAN - AREA D
1/8" = 1'-0"

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SANFORD HIGH SCHOOL and TECHNICAL CENTER

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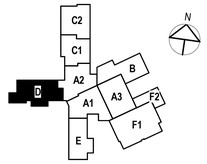

CONTENT:
SECOND FLOOR - PIPING PLAN - AREA D

DRAWN BY:	D. Elliott
PROJECT NO:	12-067-00
DATE:	02/11/2016
REVISED:	
SCALE:	1/8" = 1'-0"

M2.26

Project Phase
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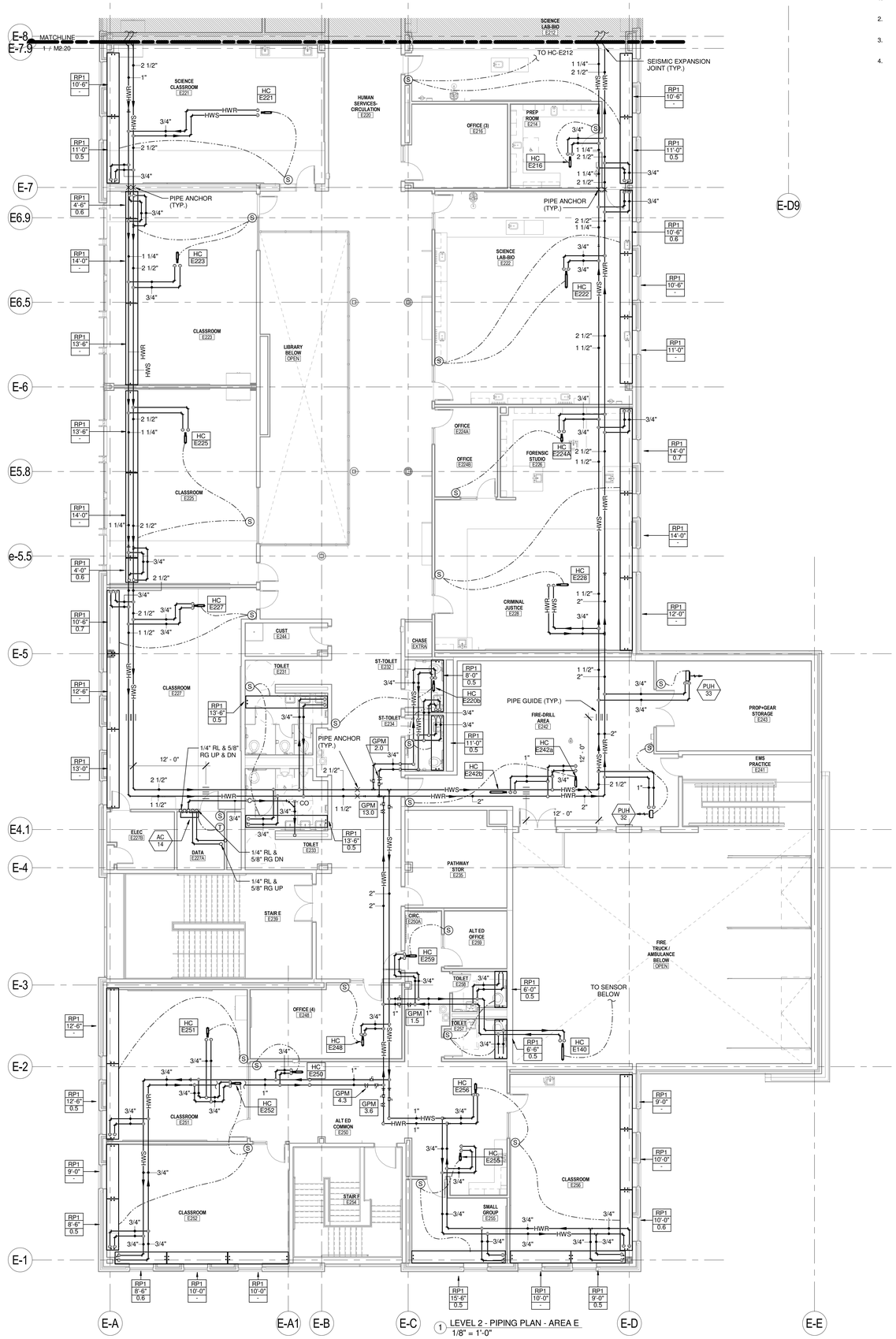

1 LEVEL 2 - PIPING PLAN - AREA E
1/8" = 1'-0"

DRAWING NOTES

1. PROVIDE THERMAL EXPANSION COMPENSATION (ANCHORS, GUIDES AND EXPANSION LOOPS WHERE REQUIRED. REFER TO SPECIFICATION FOR ADDITIONAL INFORMATION.
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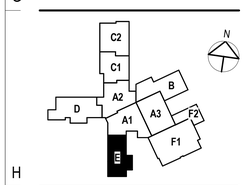

CONTENT:
SECOND FLOOR - PIPING PLAN - AREA E

DRAWN BY:	D. Elliott
PROJECT NO:	12-067-00
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SCALE:	1/8" = 1'-0"

M2.27

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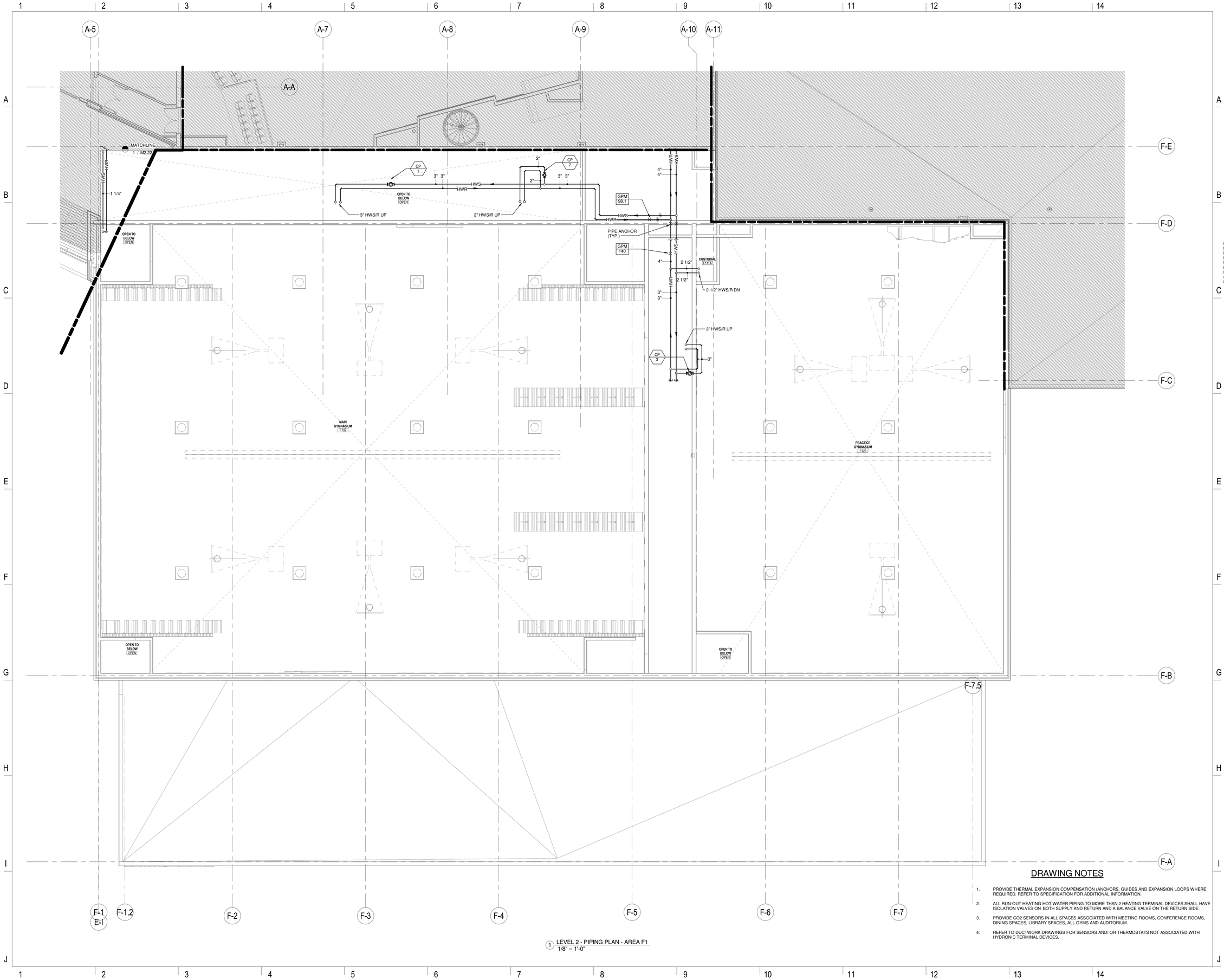

1 LEVEL 2 - PIPING PLAN - AREA F1
1/8" = 1'-0"

DRAWING NOTES

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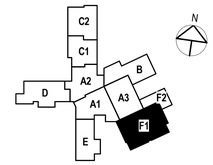

CONTENT:
SECOND FLOOR - PIPING PLAN - AREA F1

DRAWN BY:	D. Elliott
PROJECT NO:	12-067-00
DATE:	02/11/2016
REVISED:	
SCALE:	1/8" = 1'-0"

M2.28

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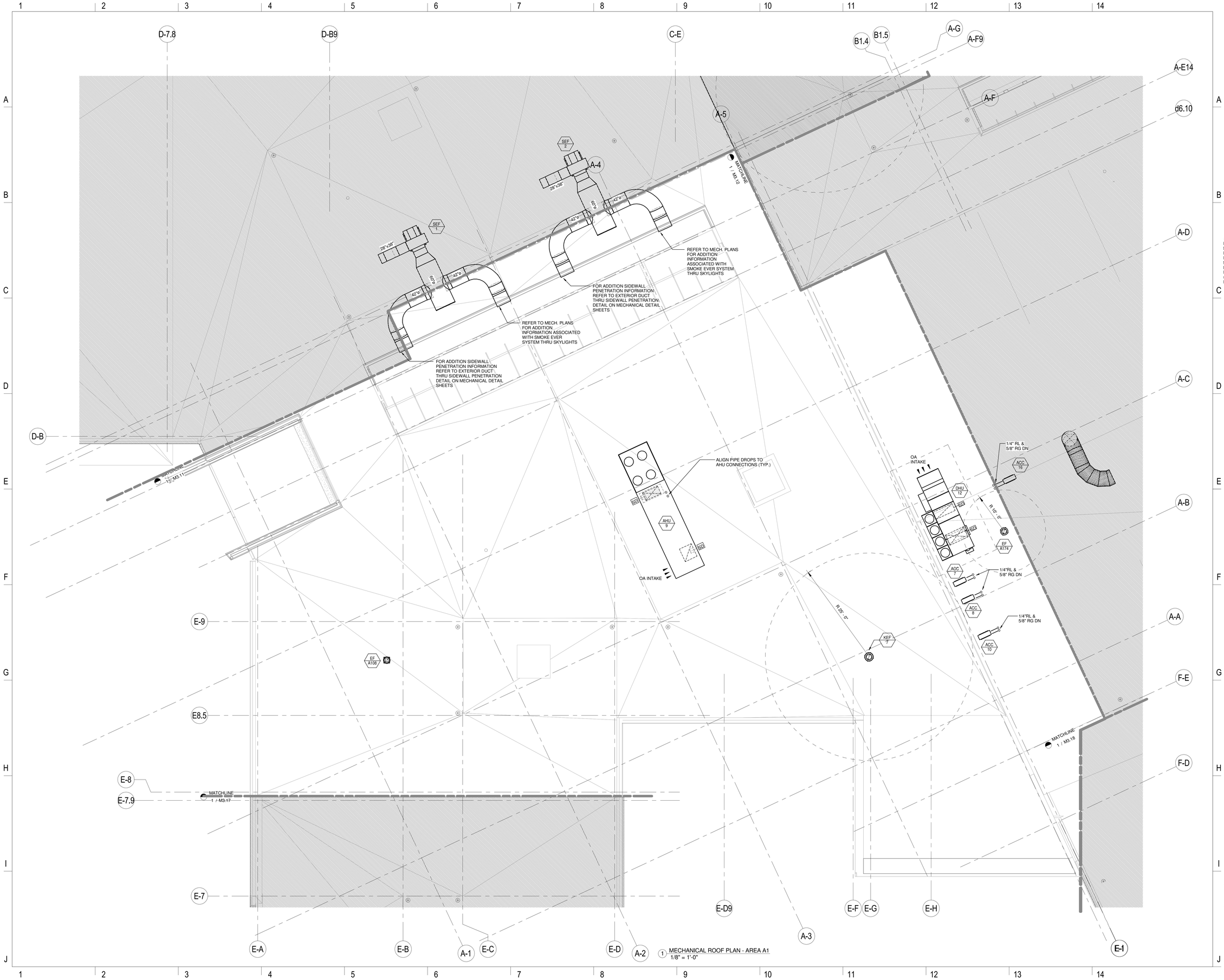

1 MECHANICAL ROOF PLAN - AREA A1
1/8" = 1'-0"

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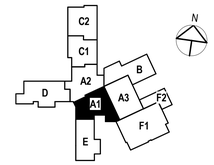

CONTENT:
MECHANICAL ROOF PLAN - AREA A1

DRAWN BY:	S. DANBY
PROJECT NO:	12-067-00
DATE:	02/11/2016
REVISED:	
SCALE:	1/8" = 1'-0"

M3.10

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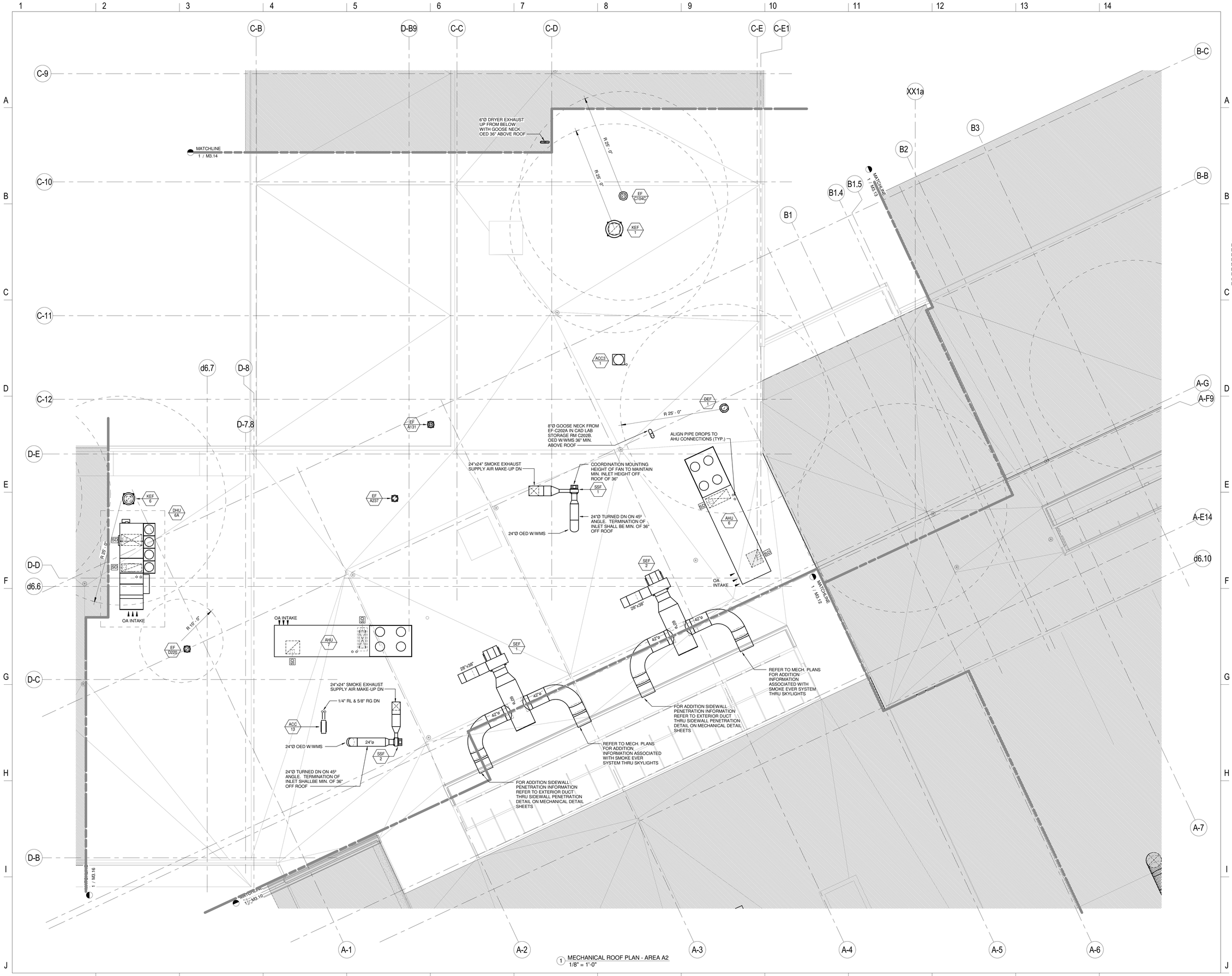

1 MECHANICAL ROOF PLAN - AREA A2
1/8" = 1'-0"

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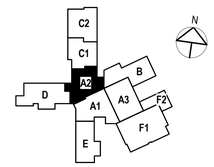

CONTENT:
MECHANICAL ROOF PLAN - AREA A2

DRAWN BY:	S. DANBY
PROJECT NO:	12-067-00
DATE:	02/11/2016
REVISED:	
SCALE:	1/8" = 1'-0"

M3.11

Project Phase
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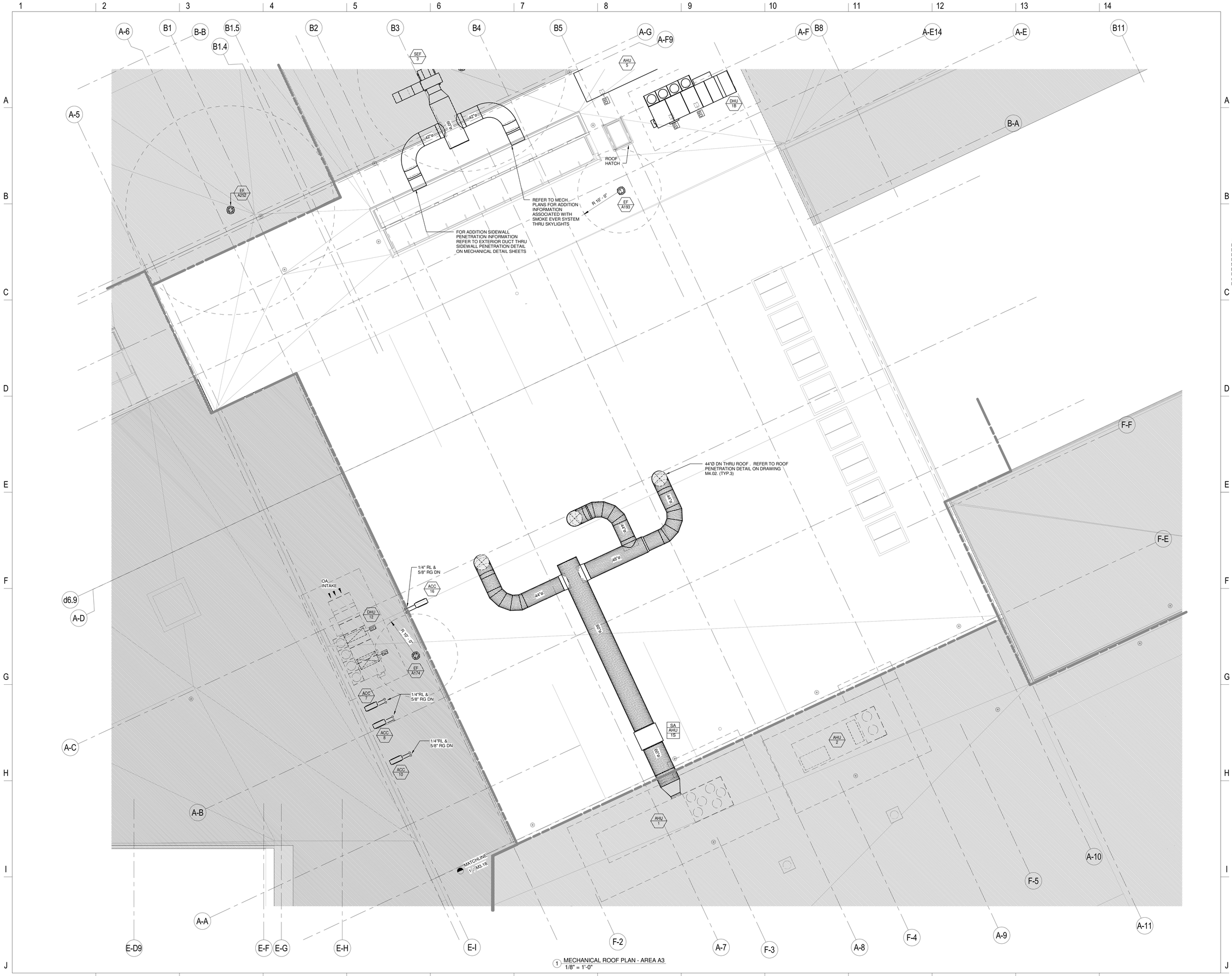

1 MECHANICAL ROOF PLAN - AREA A3
1/8" = 1'-0"

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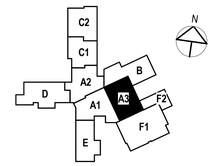

CONTENT:
MECHANICAL ROOF PLAN - AREA A3

DRAWN BY:	S. DANBY
PROJECT NO:	12-067-00
DATE:	02/11/2016
REVISED:	
SCALE:	1/8" = 1'-0"

M3.12

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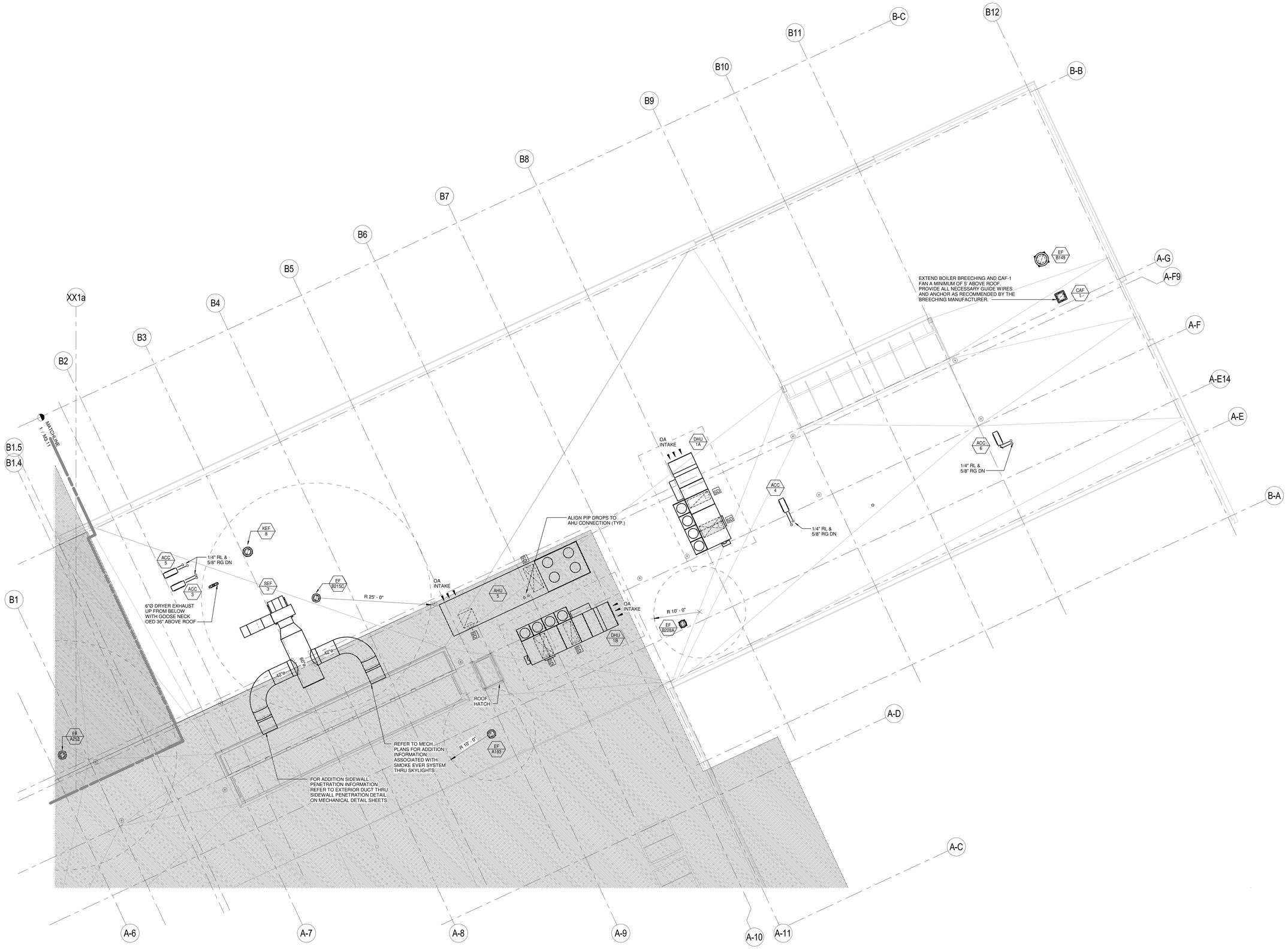

1 MECHANICAL ROOF PLAN - AREA B
1/8" = 1'-0"

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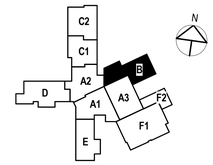

CONTENT:
MECHANICAL ROOF PLAN - AREA B

DRAWN BY:	S. DANBY
PROJECT NO:	12-067-00
DATE:	02/11/2016
REVISED:	
SCALE:	1/8" = 1'-0"

M3.13

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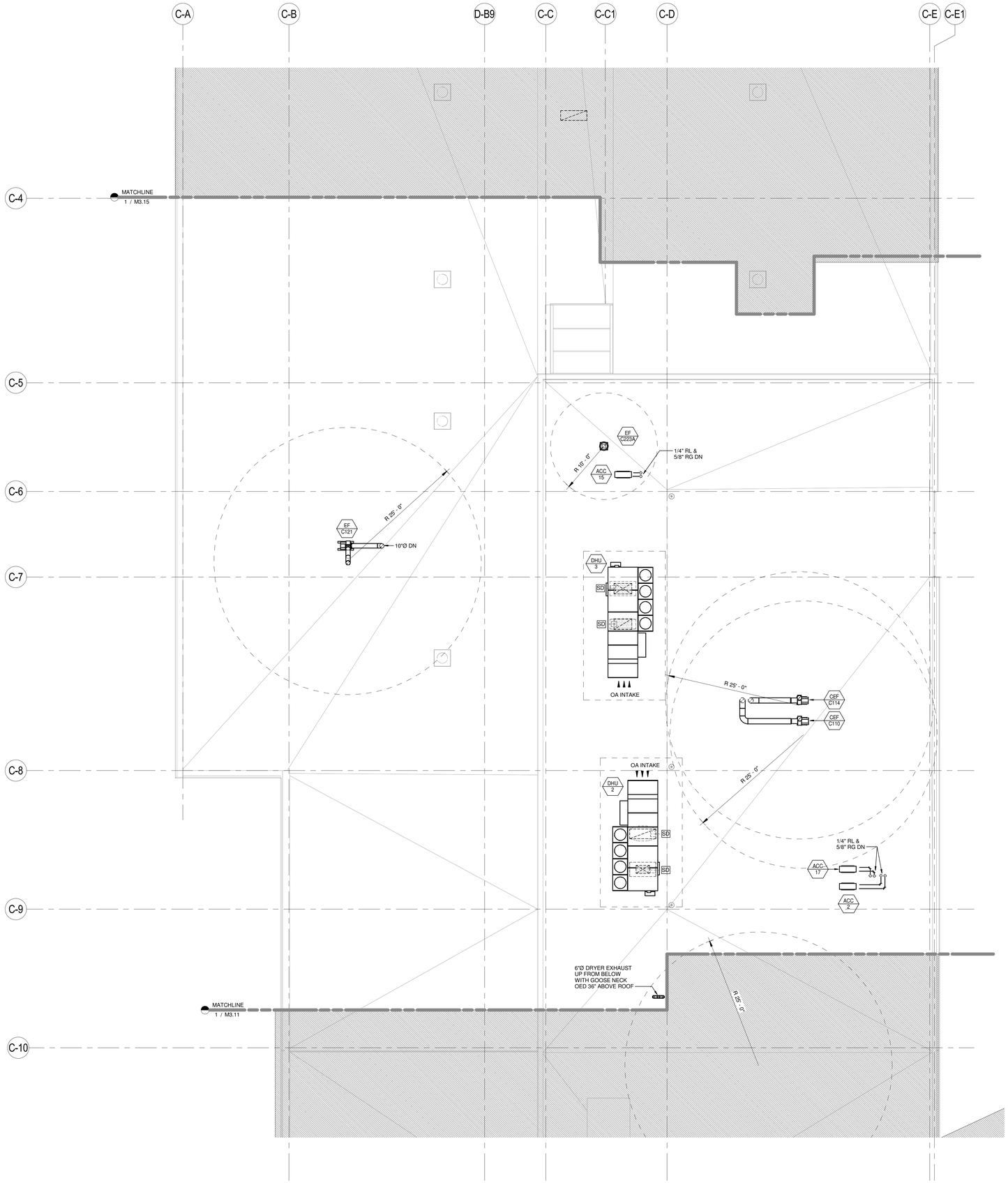

1 MECHANICAL ROOF PLAN - AREA C1
1/8" = 1'-0"

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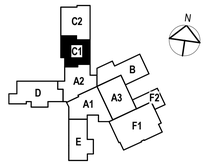

CONTENT:
MECHANICAL ROOF PLAN - AREA C1

DRAWN BY:	S. DANBY
PROJECT NO:	12-067-00
DATE:	02/11/2016
REVISED:	
SCALE:	1/8" = 1'-0"

M3.14

Project Phase
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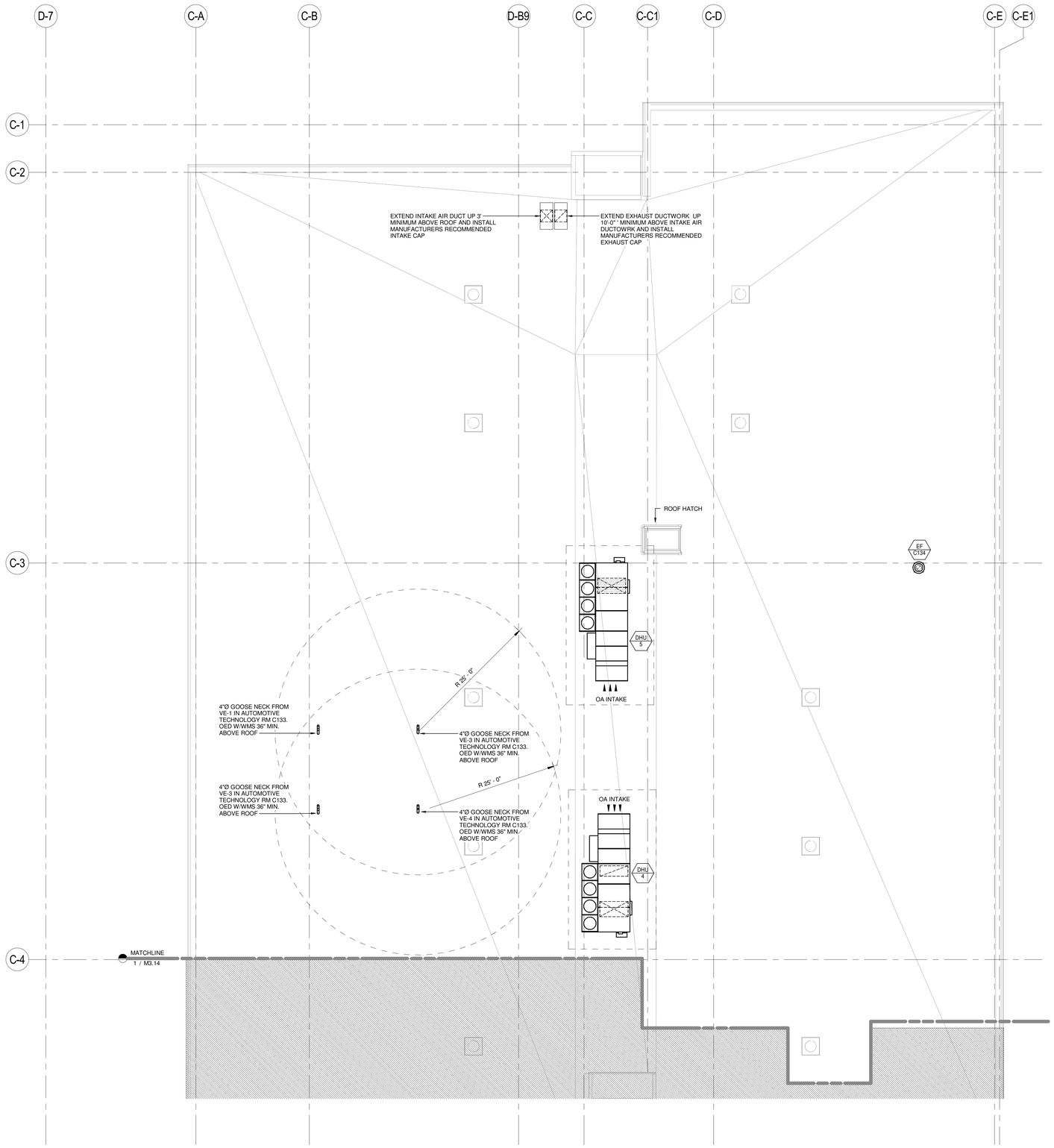

1 MECHANICAL ROOF PLAN - AREA C2
1/8" = 1'-0"

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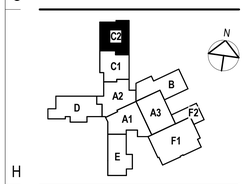

CONTENT:
MECHANICAL ROOF PLAN - AREA C2

DRAWN BY:	S. DANBY
PROJECT NO:	12-067-00
DATE:	02/11/2016
REVISED:	
SCALE:	1/8" = 1'-0"

M3.15

Project Phase
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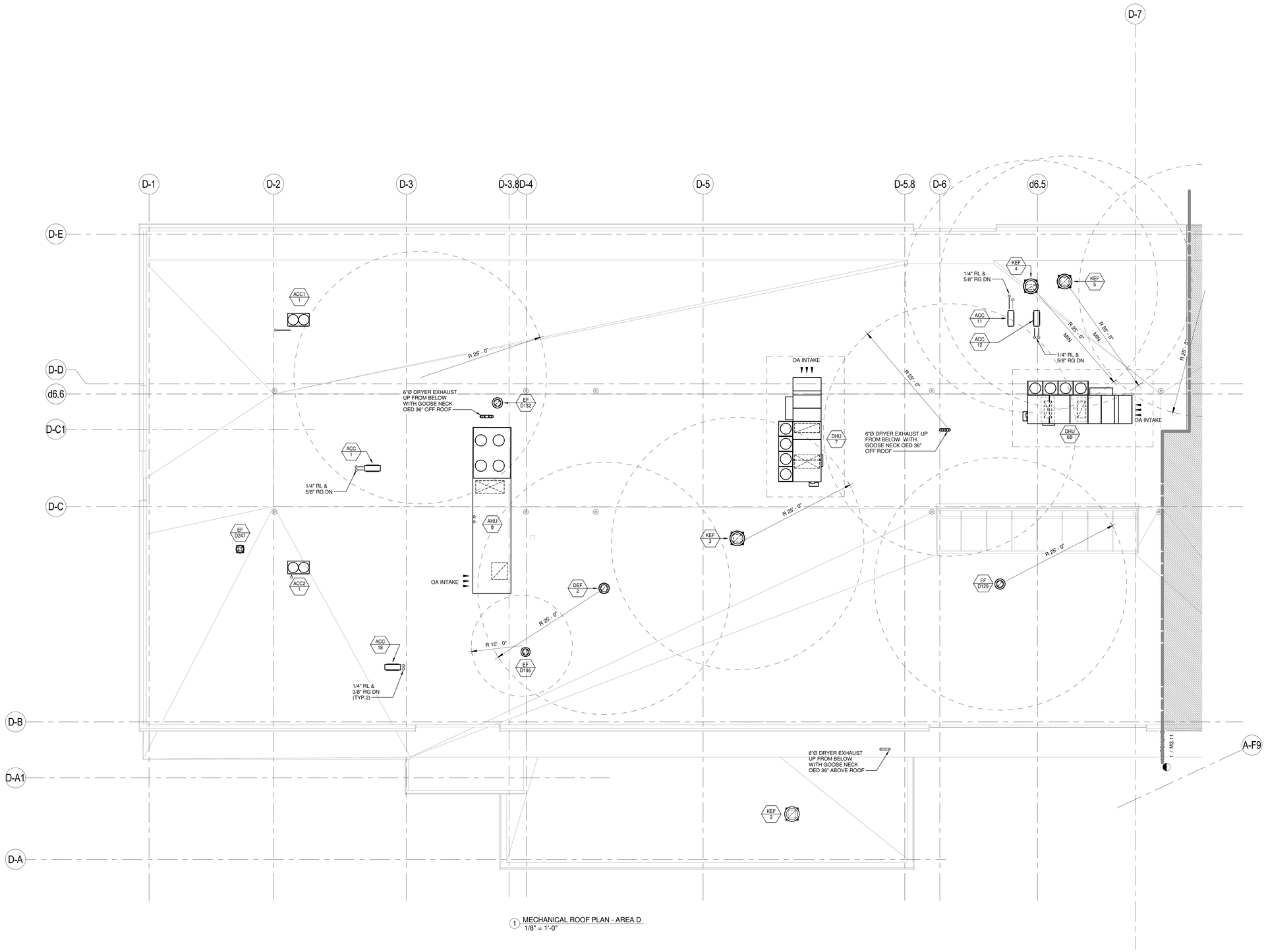

1 MECHANICAL ROOF PLAN - AREA D
1/8" = 1'-0"

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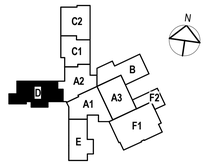

CONTENT:
MECHANICAL ROOF PLAN - AREA D

DRAWN BY:	S. DANBY
PROJECT NO:	12-067-00
DATE:	02/11/2016
REVISED:	
SCALE:	1/8" = 1'-0"

M3.16

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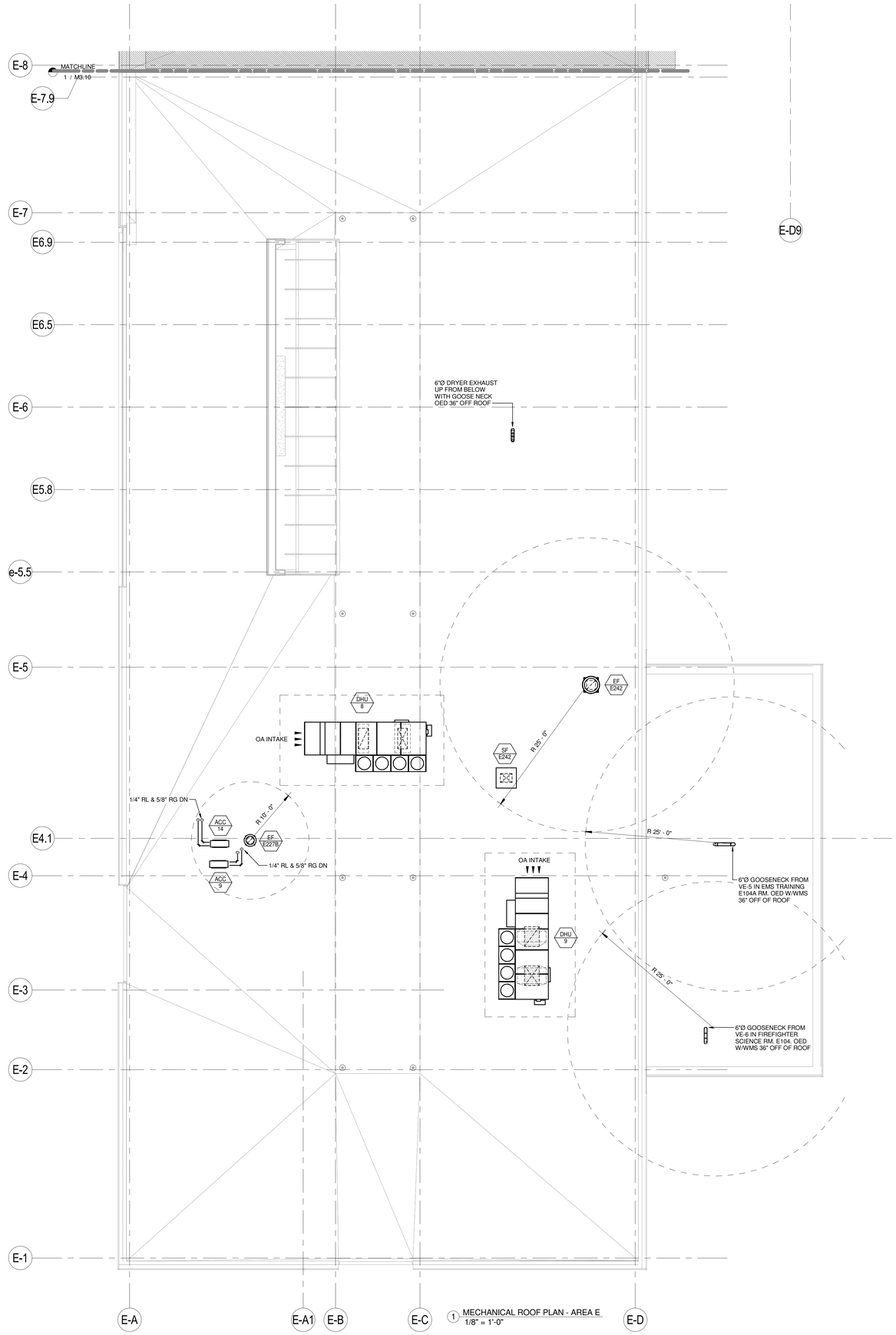

1 MECHANICAL ROOF PLAN - AREA E
1/8" = 1'-0"

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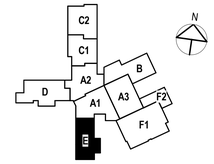

CONTENT:
MECHANICAL ROOF PLAN - AREA E

DRAWN BY:	S. DANBY
PROJECT NO:	12-067-00
DATE:	02/11/2016
REVISED:	
SCALE:	1/8" = 1'-0"

M3.17

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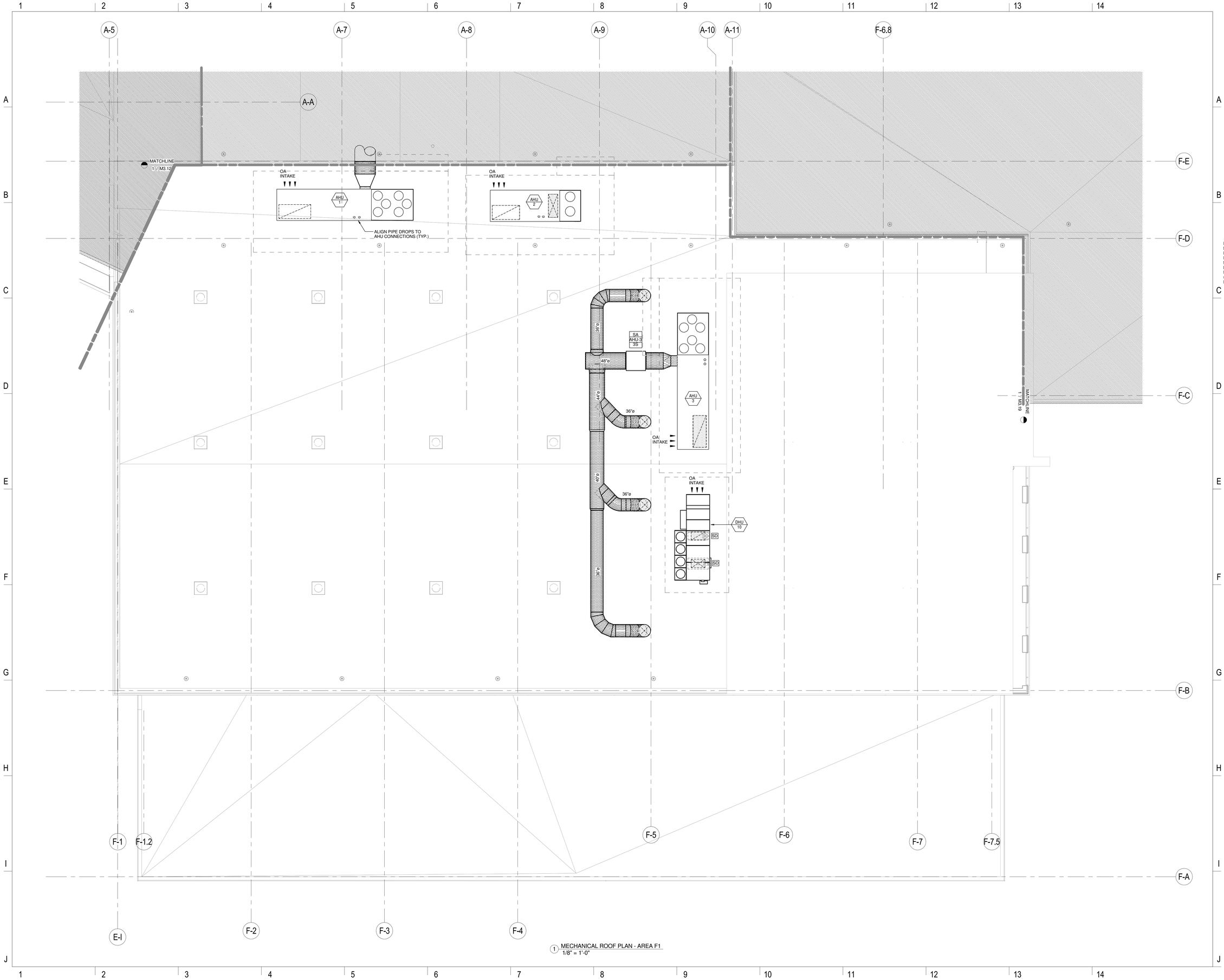

1 MECHANICAL ROOF PLAN - AREA F1
1/8" = 1'-0"

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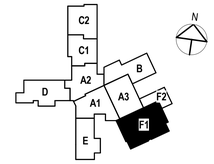

CONTENT:
MECHANICAL ROOF PLAN - AREA F1

DRAWN BY:	S. DANBY
PROJECT NO:	12-067-00
DATE:	02/11/2016
REVISED:	
SCALE:	1/8" = 1'-0"

M3.18

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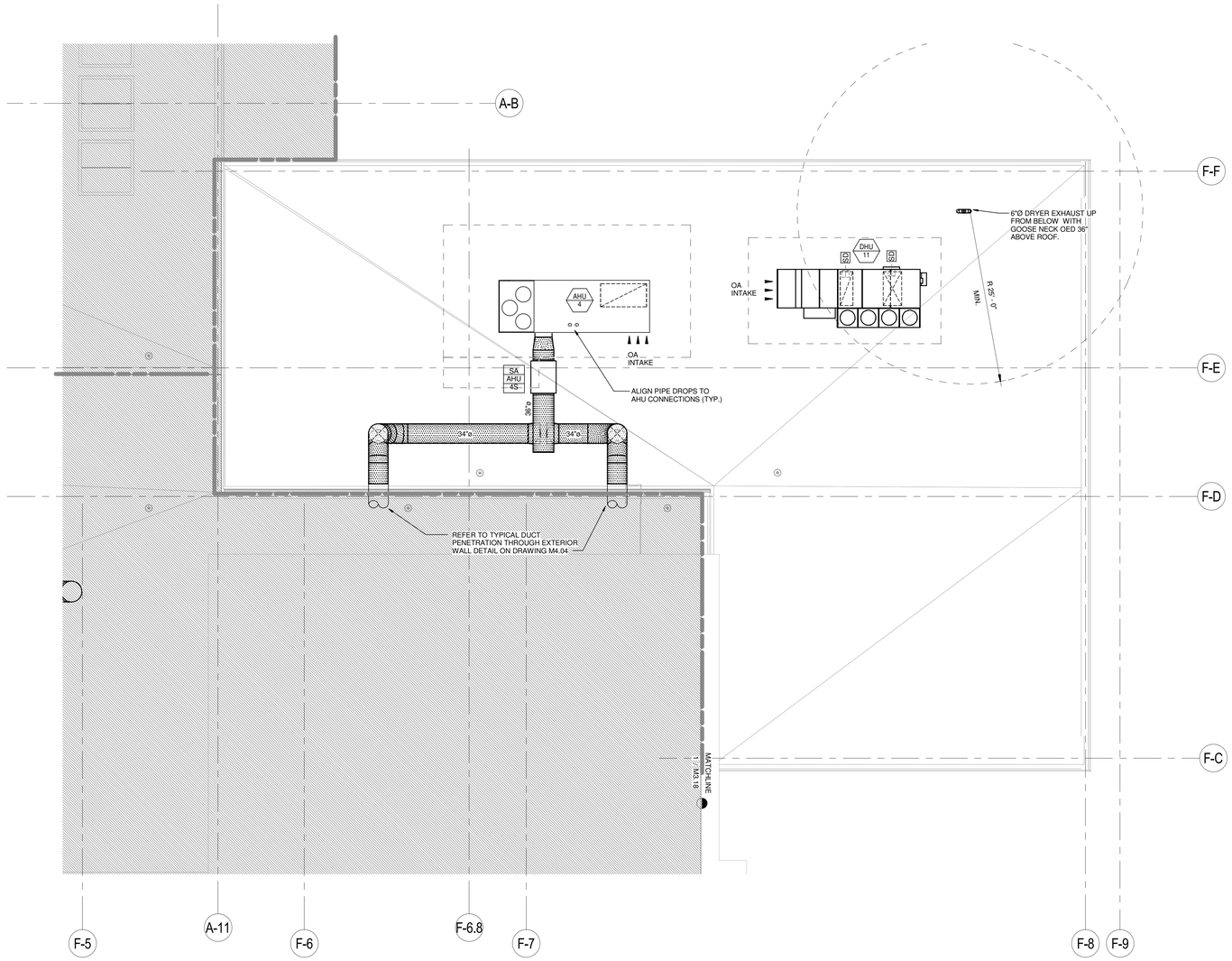

1 MECHANICAL ROOF PLAN - AREA F2
1/8" = 1'-0"

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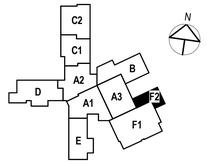

CONTENT:
MECHANICAL ROOF PLAN - AREA F2

DRAWN BY:	S. DANBY
PROJECT NO:	12-067-00
DATE:	02/11/2016
REVISED:	
SCALE:	1/8" = 1'-0"

M3.19

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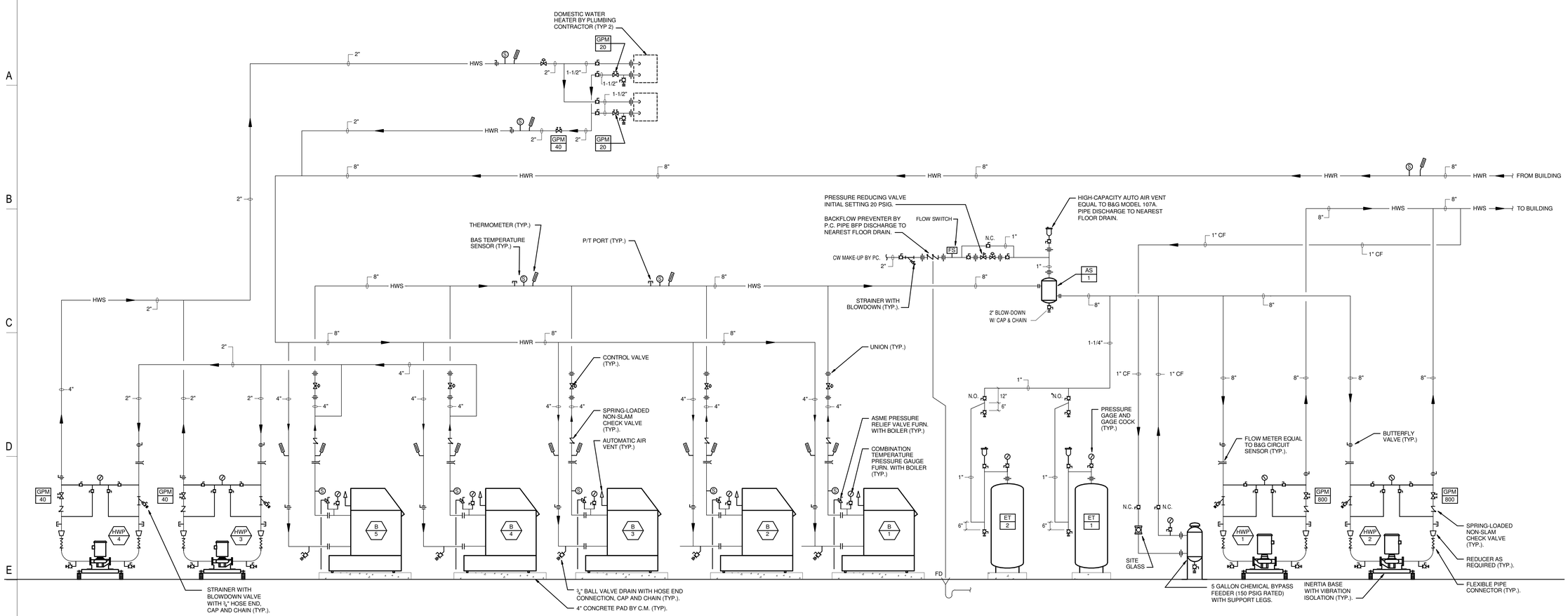
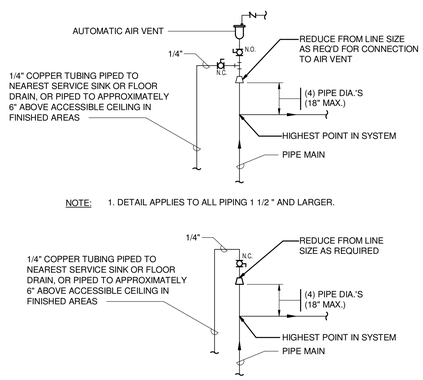


HOT WATER GENERATION SCHEMATIC

NTS

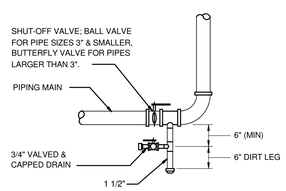


NOTE: 1. DETAIL APPLIES TO ALL PIPING 1 1/2 " AND LARGER.

NOTE: 1. DETAIL APPLIES TO ALL PIPING SMALLER THAN 1 1/2".

WATER SYSTEM HIGH POINT VENT DETAIL

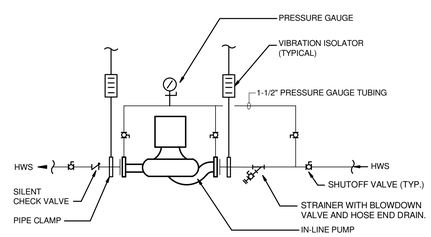
NTS



NOTES:
1. DETAIL APPLIES TO ALL PIPING 2" AND LARGER WHICH RISE MORE THAN 10'-0".
2. SUPPORT HORIZONTAL AND VERTICAL PIPING AS REQUIRED.
3. ANCHOR PIPING AND PROVIDE EXPANSION COMPENSATION AS APPROPRIATE.

PIPE RISER BASE DETAIL

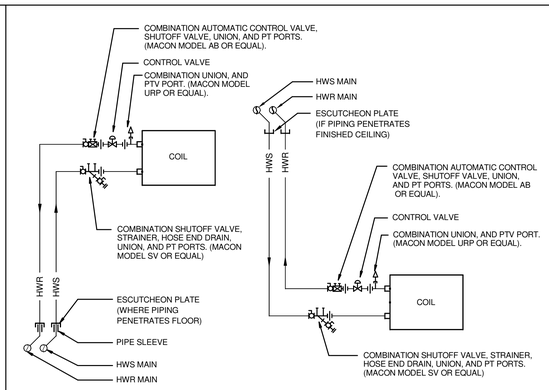
NTS



NOTES: 1. REFER TO "AIR HANDLING UNIT HEATING COIL WITH CIRCULATING PUMP PIPING DETAIL FOR ADDITIONAL INFORMATION". IN THIS CASE, MANUAL BALANCING VALVE IS LOCATED DOWNSTREAM OF COIL RETURN CONN.

IN-LINE CIRCULATING PUMP DETAIL

NTS



UP-FEED PIPING

DOWN-FEED PIPING

NOTE:
1. ROUTE ALL PIPING CONCEALED UNLESS OTHERWISE NOTED ON PLANS.
2. INSTALL PIPE SLEEVES FLUSH WITH FINISH FLOOR AND PROVIDE FIREPROOFING.

CABINET AND PROPELLER UNIT HEATER COIL PIPING DETAIL

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SANFORD, ME 04073

NO.	DESCRIPTION	DATE

CONTENT: MECHANICAL DETAILS

DRAWN BY:	D. Elliott
PROJECT NO:	12-067-00
DATE:	02/11/2016
REVISED:	
SCALE:	AS NOTED

M4.01

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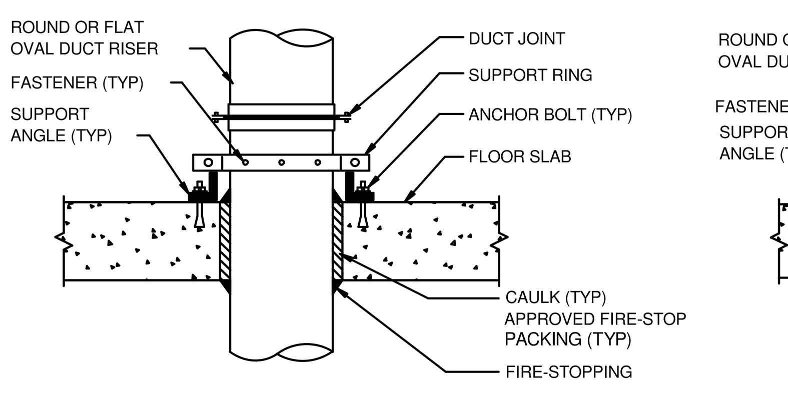
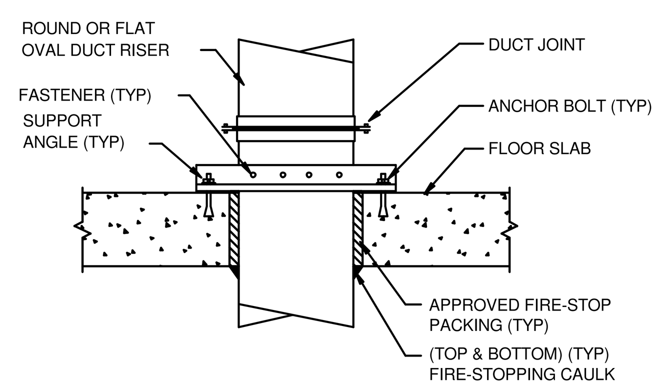


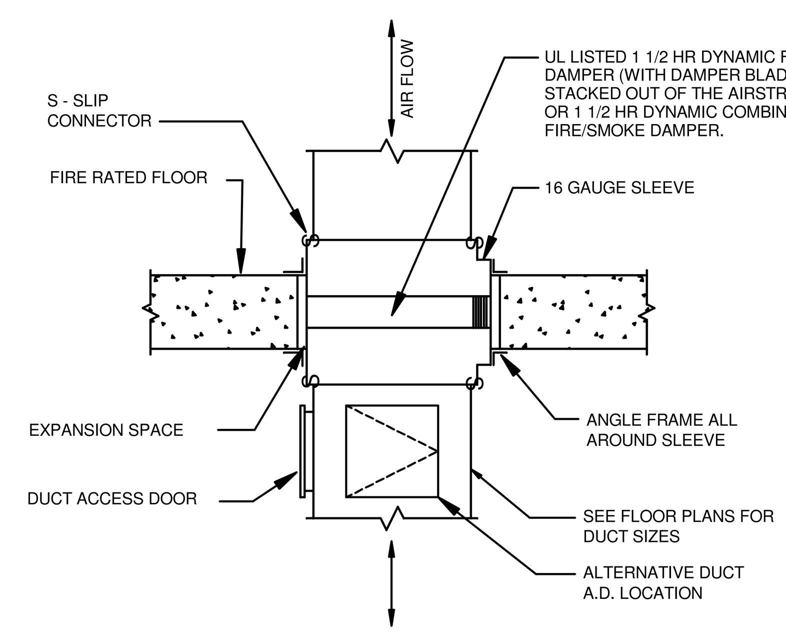
ROUND OR FLAT
OVAL DUCT RISERS

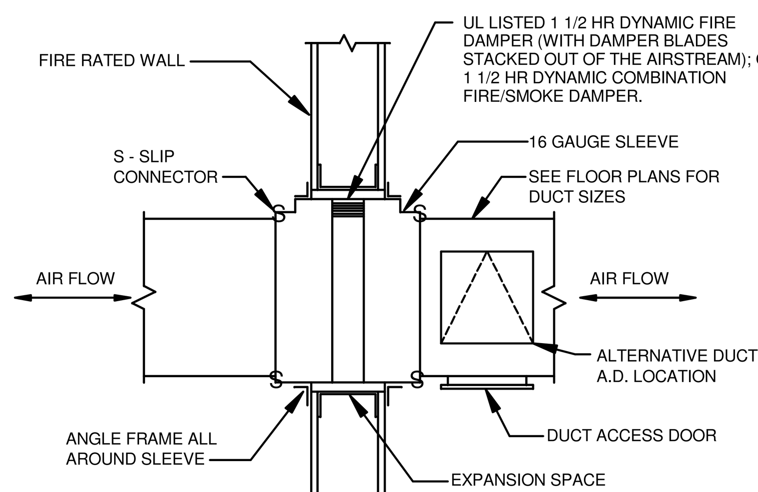


RECTANGULAR OR FLAT
OVAL DUCT RISERS

NOTES:
1. SELECT AND INSTALL RISER SUPPORTS AS PER SMACNA DUCT CONSTRUCTION STANDARDS IN ACCORDANCE WITH THE PRESSURE CLASSIFICATION OF EACH DUCT SYSTEM. SUPPORT DUCT RISERS AT EACH FLOOR PENETRATION. PROVIDE SEISMIC RESTRAINT AS APPROPRIATE TO THE INSTALLATION (REFER TO PROJECT SPECIFICATIONS).
2. PROVIDE FLEXIBLE, RESILIENT FIRE-STOPPING CAULK AND PACKING AT SLAB PENETRATION.
3. WHERE BELOW AMBIENT TEMPERATURE AIR IS CONVEYED IN THE DUCTWORK (I.E., SUPPLY AIR OR OUTSIDE AIR), INSULATION WITH A VAPOR BARRIER SHALL BE PROVIDED ON THE SUPPORTS RINGS AND ANGLES TO A POINT AT LEAST 6" CLEAR OF THE DUCT INSULATION.
4. DUCT REINFORCEMENT MAY BE USED FOR ATTACHMENT AND SUPPORT PROVIDED IT QUALIFIES FOR BOTH DUTIES, AND DUCT STRENGTH IS NOT COMPROMISED BY USING REINFORCEMENT FOR SUPPORT.
5. ANCHOR BOLTS SHALL BE 3/4" HILTI DROP-IN ANCHORS, OR EQUIVALENT.
6. SUBMIT DUCT SUPPORT DETAILS FOR ENGINEER'S REVIEW PRIOR TO FABRICATION.

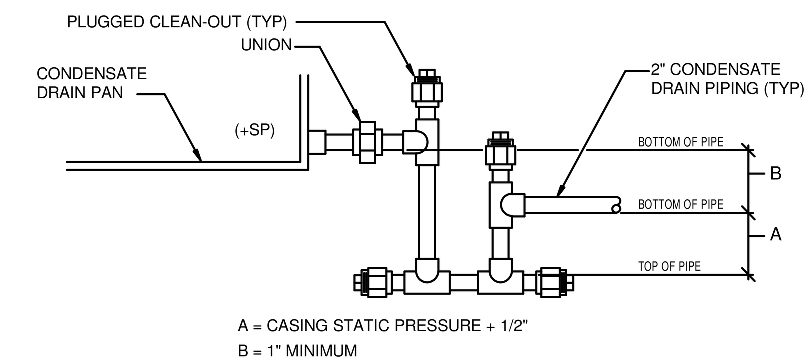
DUCT RISER SUPPORT DETAIL
NTS





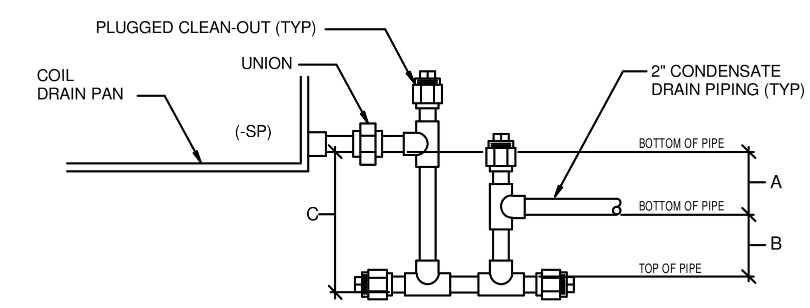
NOTES:
1. INSTALL FIRE AND COMBINATION FIRE/SMOKE DAMPERS PER CODE, UL, AND MANUFACTURER'S REQUIREMENTS.
2. INSTALLATION OF SMOKE DAMPERS IS SIMILAR TO THAT SHOWN ABOVE.
3. DUCT ACCESS DOORS MAY BE INSTALLED UPSTREAM OR DOWNSTREAM OF DAMPERS AS APPROPRIATE FOR MAXIMUM ACCESS. COORDINATE THE PROVISION OF ACCESS PANELS IN HARD SURFACES FOR DUCT ACCESS WITH THE CONSTRUCTION MANAGER; ACCESS PANELS SHALL BE AS SPECIFIED BY THE ARCHITECT.

FIRE AND SMOKE DAMPER DETAIL
NTS



A = CASING STATIC PRESSURE + 1/2"
B = 1" MINIMUM

BLOW-THRU CONDENSATE DRAIN PAN & TRAP

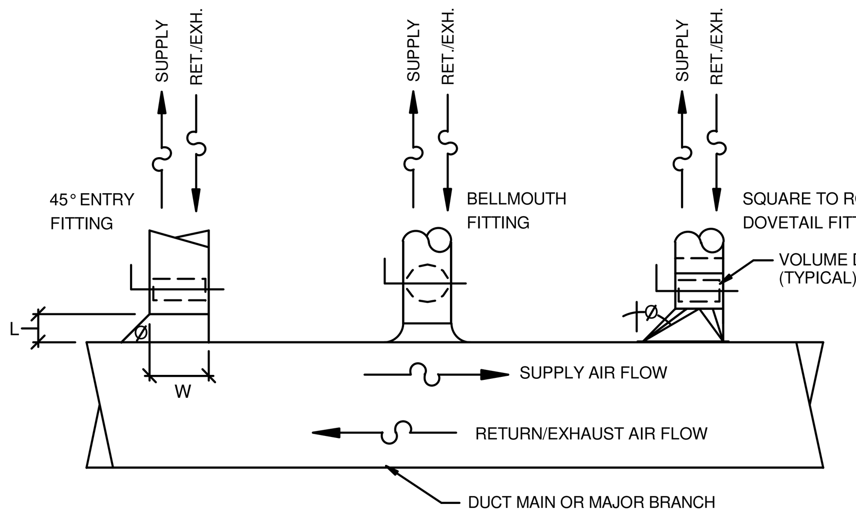


A = CASING STATIC PRESSURE + 1" (5%%134" MIN.)
B = %%134 1/2 x A
C = A + B + PIPE DIAMETER + PIPE INSULATION

DRAW-THRU DRAIN PAN & TRAP

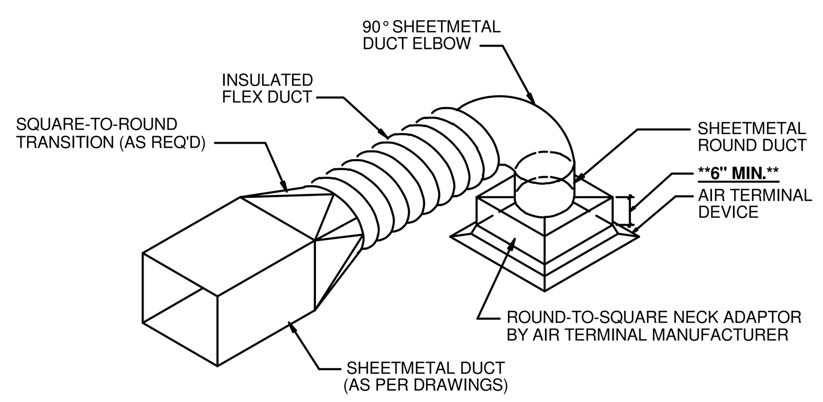
NOTES: 1. PITCH ALL CONDENSATE DRAIN PIPING DOWN TOWARDS ITS OUTLET AT 1/8" PER FOOT (MINIMUM).
2. PROVIDE PLUGGED CLEAN-OUTS AT EACH 90° CHANGE IN DIRECTION.
3. INSTALL DRAIN TRAPS AND PIPING PER MANUFACTURER'S RECOMMENDATIONS.
4. PRIME CONDENSATE DRAIN TRAPS WITH WATER PRIOR TO START-UP.
5. PROVIDE DRAINS AT ALL AHU COILS AND AT BOTH SIDES OF AHU HEAT EXCHANGERS (INTAKE AND EXHAUST SIDES), AS APPROPRIATE.

CONDENSATE DRAIN PAN DETAIL
NTS



NOTES : 1. "SPIN-IN" TAKE-OFF FITTINGS, STRAIGHT TAPS, EXTRACTORS, SCOOPS, OR SPLITTER DAMPERS ARE NOT ACCEPTABLE .
2. ACCOUNT FOR DUCT HEIGHT WHEN SELECTING CONICAL OR BELLMOUTH BRANCH TAKE-OFF FITTINGS.
3. PROVIDE AIR BALANCING VOLUME DAMPER, W/ LOCKING QUADRANT & SHAFT SEALS, AT EACH BRANCH TAKE-OFF DOWNSTREAM OF VAV BOXES & AT ALL OTHER LOW PRESSURE BRANCHES. DO NOT PROVIDE VOLUME DAMPERS IN MEDIUM PRESSURE SUPPLY DUCTWORK UPSTREAM OF VAV BOXES.
4. L = W/4; L = 4" MINIMUM. Ø= 45°.
5. BELLMOUTH FITTINGS MAY BE ROUND, FLAT OVAL, OR RECTANGULAR.
6. MINI-BELLMOUTHS MAY BE USED IN LIEU OF BELLMOUTH IF BELLMOUTH WILL NOT FIT APPROPRIATELY DUE TO DUCT HEIGHT.

TYPICAL DUCT BRANCH TAKE-OFFS
NTS



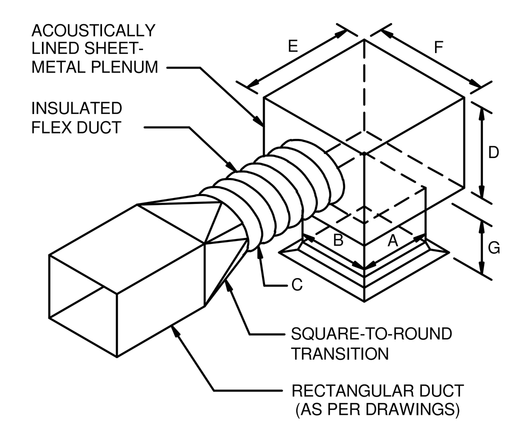
ROUND DUCT SIZE SCHEDULE

DUCT SIZE	CFM RANGE	DUCT SIZE	CFM RANGE
6"Ø	0-125	16"Ø	701-900
8"Ø	126-225	18"Ø	901-1100
10"Ø	226-350	20"Ø	1101-1400
12"Ø	351-500	22"Ø	1401-1600
14"Ø	501-700	24"Ø	1601-1900

NOTES: 1. FLEX DUCT SHALL BE A MAXIMUM OF 3'-0" LONG WITH NO BENDS EXCEEDING 15° OFFSET FROM CENTERLINE OF DUCTS BEING JOINED.
2. SUPPORT AIR TERMINAL DEVICE INDEPENDENT OF CEILING. PROVIDE AIR TERMINAL W/ APPROPRIATE FRAME TYPE(S) FOR CEILING(S). COORDINATE AIR TERMINALS W/ ARCHITECTURAL CEILING PLAN, AND/OR CEILING CONTRACTOR.
3. DIRECT FLEXIBLE DUCT TO DIFFUSER CONNECTIONS SHALL NOT BE PERMITTED. 90° FLEX DUCT ELBOWS SHALL NOT BE PERMITTED.
4. INSTALL AIR TERMINAL DEVICES FLUSH TO CEILING W/ CONCEALED MOUNTING & SUPPORT HARDWARE.

NOTE:
**** ONLY FOR USE IN CORRIDORS, TOILET ROOMS, STORAGE ROOMS AND MECHANICAL ROOMS.**
ALL OTHER TERMINAL CONNECTION SHALL BE PER PLENUM AIR TERMINAL CONNECTION DETAIL.**
****PLENUM BOX SELECTIONS BY DONCO OR NORTH EASTERN SHEETMETAL,OR APPROVED EQUAL.****

TYPICAL AIR TERMINAL CONNECTION DETAIL
NTS



A	B	MAX CFM	C	D	E	F	G
6"	6"	125	6"Ø	8"	10"	10"	4"
9"	9"	280	10"Ø	12"	10"	12"	4"
12"	12"	480	12"Ø	14"	14"	14"	4"
15"	15"	750	14"Ø	16"	16"	16"	4"

NOTES: 1. THIS DETAIL IS TYPICAL FOR ALL CEILING MOUNTED AIR OUTLETS AND IN OFFICES, CONFERENCE/ MEETING ROOMS. PRESENTATION ROOMS, INTERVIEW ROOMS, PRIVATE ROOMS, LOUNGE ROOMS AND ELSEWHERE AS IDENTIFIED ON THE DRAWINGS.
2. FLEX DUCT SHALL BE A MAXIMUM OF 3'-0" LONG WITH NO BENDS EXCEEDING 15° OFFSET FROM CENTERLINE OF FLEX DUCT.
3. IN AREAS WHERE PLENUM CONNECTION SHOWN CAN NOT BE INSTALLED DUE TO SPACIAL CONFLICTS, DIRECT HARD DUCT TO DIFFUSER CONNECTIONS MAY BE USED WITH ENGINEER'S APPROVAL.
4. DIRECT FLEXIBLE DUCT TO DIFFUSER CONNECTIONS SHALL NOT BE PERMITTED, EXCEPT AS NOTED ABOVE.
5. ACOUSTICAL LINING SHALL BE HOSPITAL GRADE CLOSED CELL FOAM INSULATION.
6. SUPPORT AIR TERMINAL DEVICE INDEPENDENT OF CEILING. PROVIDE AIR TERMINAL W/ APPROPRIATE FRAME TYPE(S) FOR CEILING(S). COORDINATE AIR TERMINALS W/ ARCHITECTURAL CEILING PLAN, AND/OR CEILING CONTRACTOR.
7. INSTALL AIR TERMINAL DEVICES FLUSH TO CEILING W/ CONCEALED MOUNTING & SUPPORT HARDWARE.

NOTE:
****ALL TERMINAL CONNECTIONS SHALL USE THIS DETAIL ONLY.**
EXCEPTIONS SHALL BE TOILET ROOMS, CORRIDORS, STORAGE ROOMS & MECHANICAL ROOMS**

PLENUM AIR TERMINAL CONNECTION DETAIL
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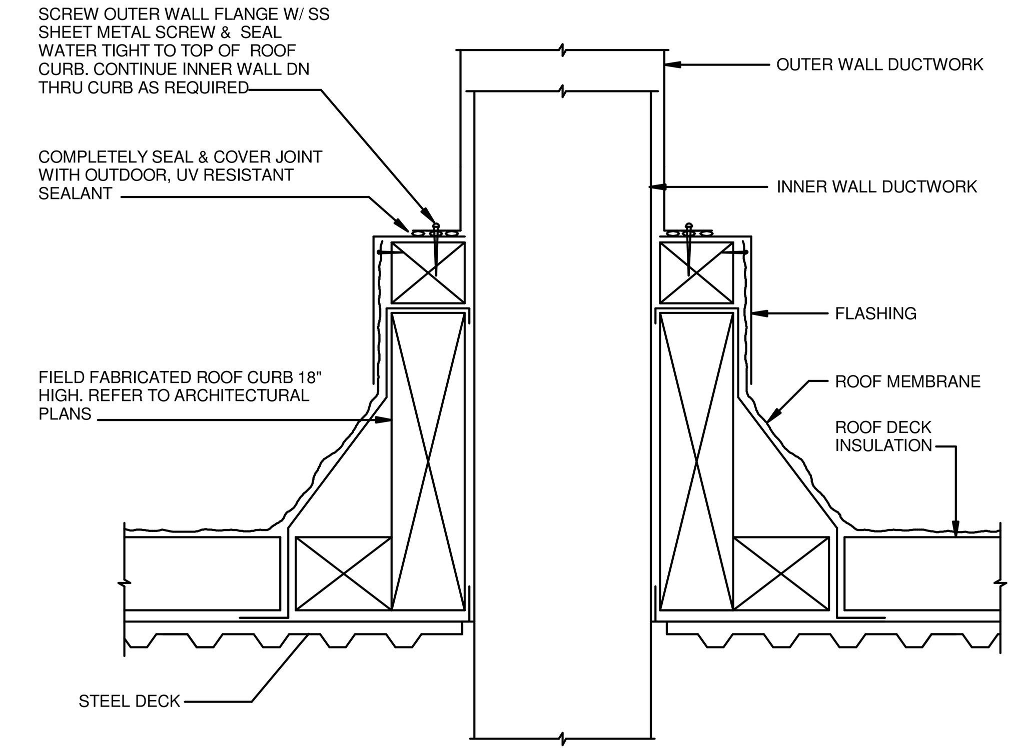
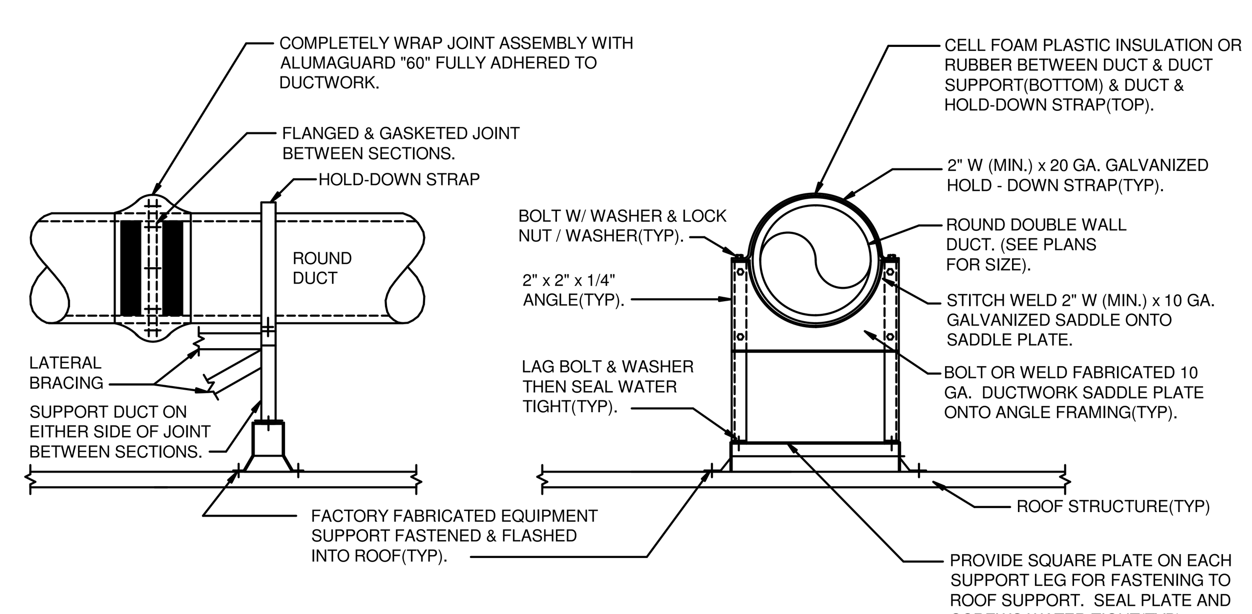
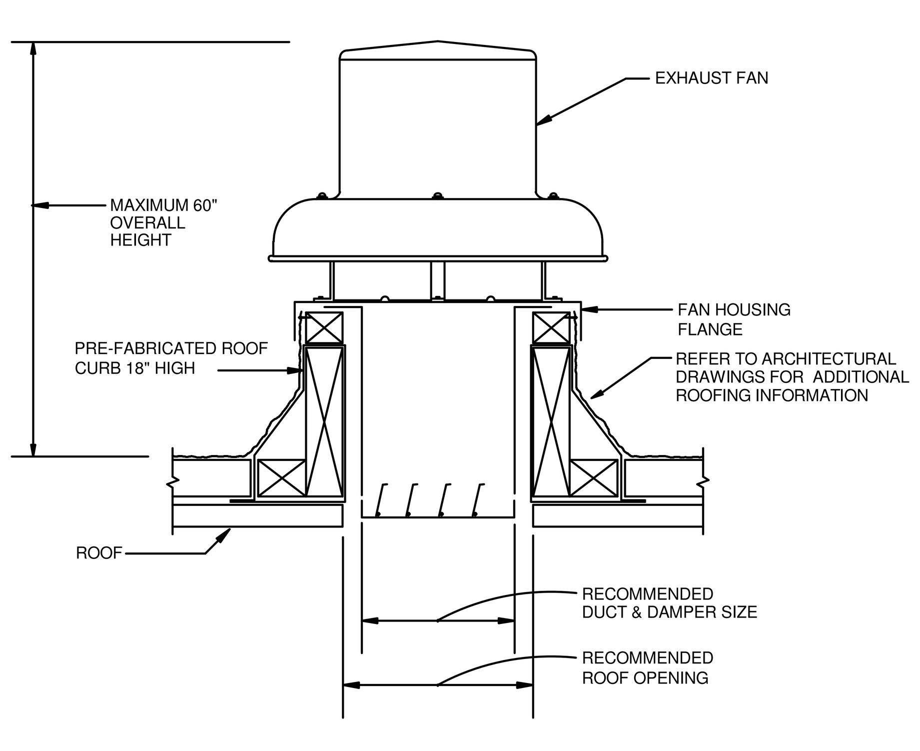


ROUND AND RECTANGULAR DUCT PENETRATION THROUGH ROOF DETAIL
NTS



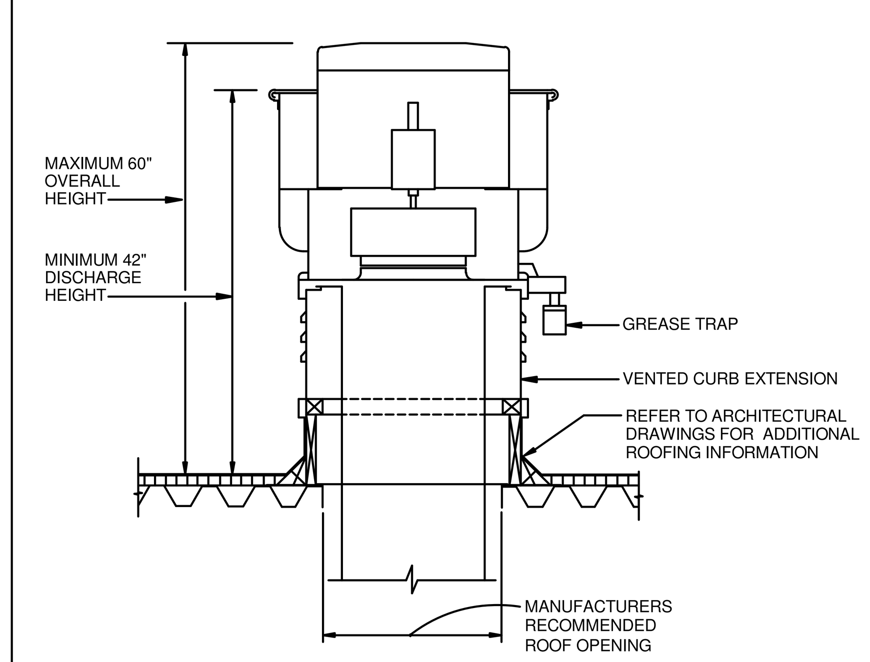
NOTES:
1. COORDINATE INSTALLATION OF ROOF DUCTWORK SUPPORTS WITH CONSTRUCTION MANAGER AND ROOFING CONTRACTOR.
2. SUBMIT ROOF DUCTWORK SUPPORT DETAILS FOR ENGINEER'S REVIEW PRIOR TO FABRICATION.
3. PROVIDE LATERAL BRACING AND HORIZONTAL CROSS MEMBERS TO RIGIDLY TIE INDIVIDUAL VERTICAL SUPPORTS TOGETHER.
4. ALL SUPPORT COMPONENTS SHALL BE OF GALVANIZED STEEL CONSTRUCTION.

ROOF DUCTWORK SUPPORT DETAIL
NTS



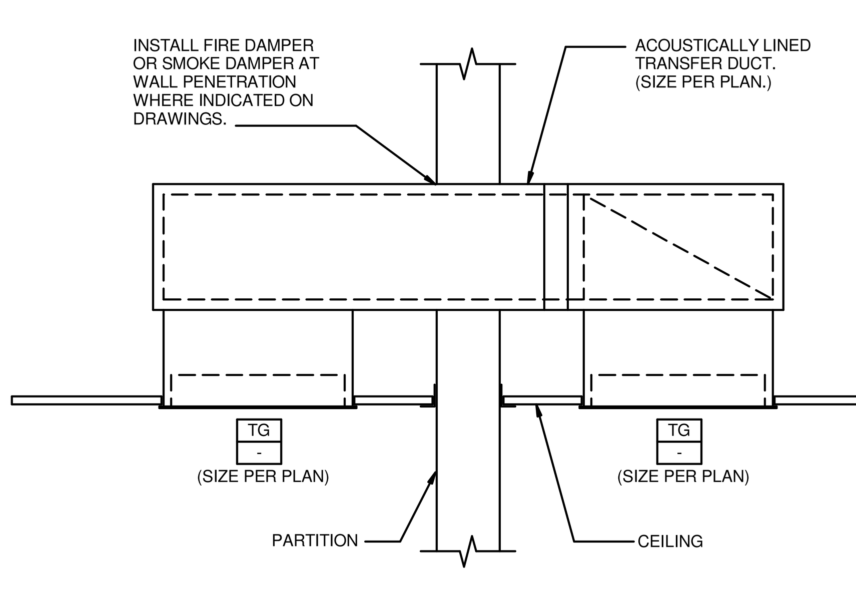
NOTES: INSTALL FAN AND CURB PER MANUFACTURE INSTRUCTIONS AND CODE REQUIREMENTS.

EXHAUST FAN ROOF CURB DETAIL
NTS



NOTES: INSTALL FAN AND CURB PER MANUFACTURE INSTRUCTIONS AND CODE REQUIREMENTS.

TYPICAL KITCHEN AND DISHWASHER EXHAUST FAN ROOF CURB DETAIL
NTS



TYPICAL TRANSFER DUCT DETAIL
NTS

A B C D E F G H I J

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PROFESSIONAL ENGINEER

Sanford School Department and State of Maine Department of Education

SANFORD HIGH SCHOOL and TECHNICAL CENTER

SANFORD, ME 04073

NO.	DESCRIPTION	DATE

FOR ADDITIONAL INFORMATION, REFER TO PROJECT MANUAL.

CONTENT:
MECHANICAL DETAILS

DRAWN BY: D. Elliott
PROJECT NO: 12-067-00
DATE: 02/11/2016
REVISED:
SCALE: AS NOTED

M4.02

Project Phase
BID DOCUMENTS

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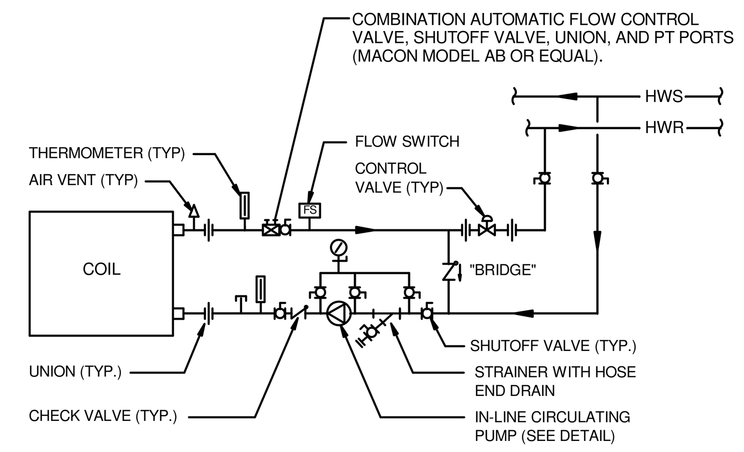
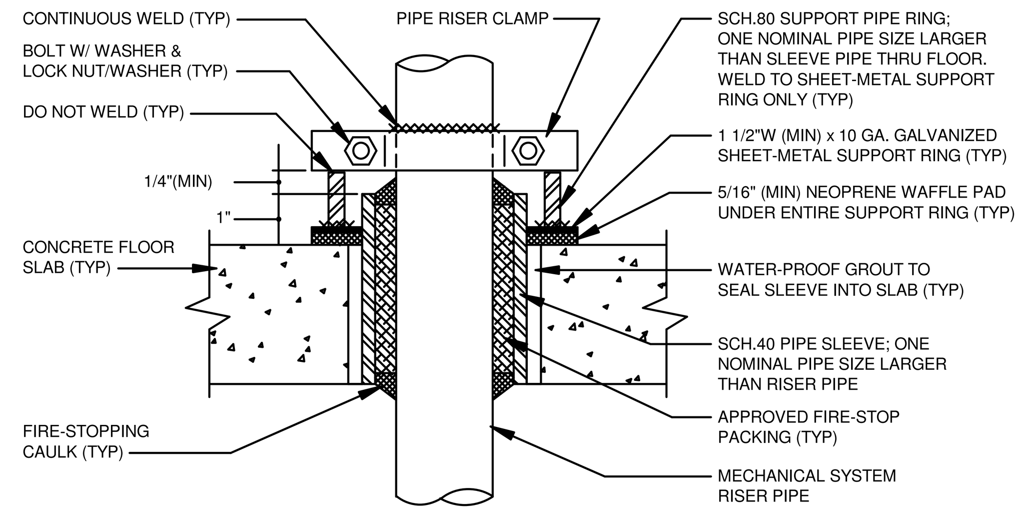


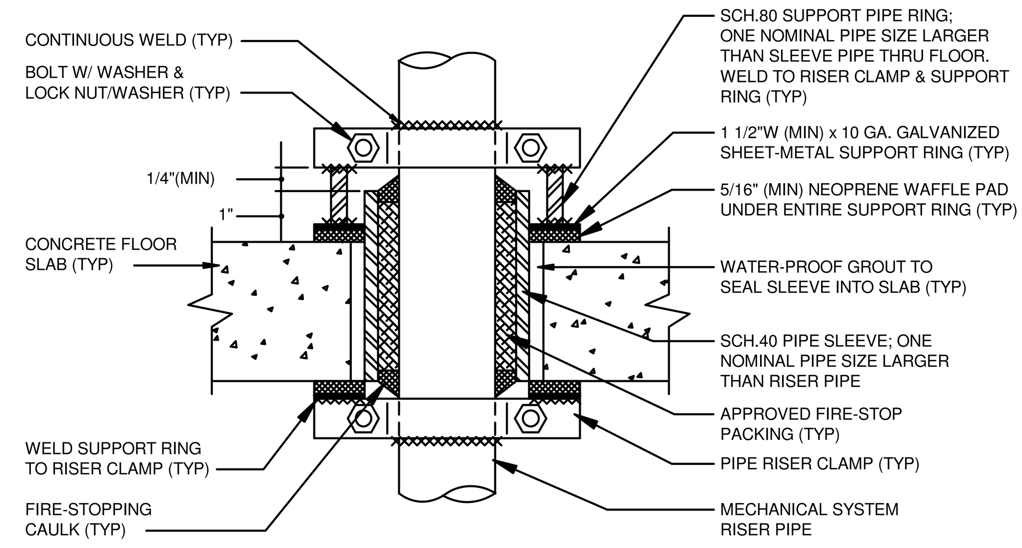
NOTES:
1. CONTROL VALVE SHALL BE NORMALLY OPEN FOR FLOW TO THE HEATING COIL.
2. VERIFY FLOW WITH CONTROL VALVE FULLY OPEN AND BOTH SYSTEM PUMP AND CIRCULATING PUMP ON. ADJUST CONTROL RANGE OF AUTOMATIC FLOW CONTROL VALVE AS RECOMMENDED BY MANUFACTURER.
3. PROVIDE VALVE TYPES (BALL; BUTTERFLY) AS APPROPRIATE TO THE APPLICATION & PIPE SIZE.
4. ARRANGE PIPING TO ALLOW FOR COIL REMOVAL W/ MINIMAL PIPING DISASSEMBLY. PIPE COILS PER MANUFACTURER'S RECOMMENDATIONS.
5. REFER TO PIPING PLANS FOR PIPE SIZES. "BRIDGE" PIPING SHALL BE SAME SIZE AS SUPPLY AND RETURN PIPING INDICATED ON PLANS.
6. FOR UNITS WITH STACKED COILS AND/OR FOR HEADERS WITH MULTIPLE PIPING CONNECTIONS, PIPE COILS SIMILAR TO THAT SHOWN AND/OR PER MANUFACTURER'S RECOMMENDATIONS. PROVIDE UNION AT EACH HEADER CONNECTION. PROVIDE MANUAL BALANCING VALVE AT EACH HEADER RETURN CONNECTION IN ADDITION TO AUTOMATIC FLOW CONTROL VALVE.
7. SPECIAL CARE SHALL BE TAKEN TO SEAL AND INSULATE COIL PIPING CONNECTIONS AND PIPING PENETRATIONS THRU UNIT CASING TO AVOID AIR LEAKAGE.

AIR HANDLING UNIT HEATING COIL WITH CIRCULATION PUMP PIPING DETAIL
NTS



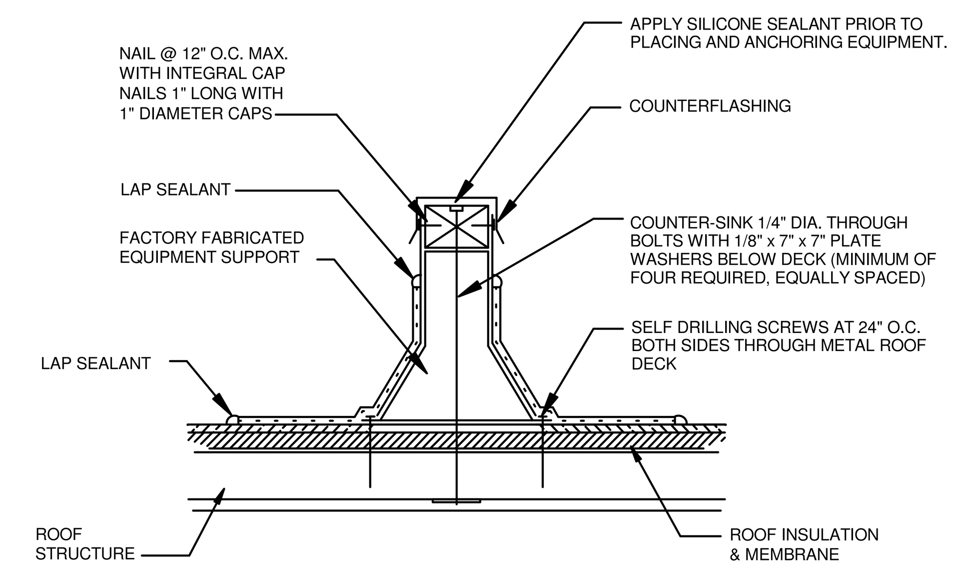
NOTES:
1. PROVIDE RISER SUPPORT AS SHOWN AT EACH RISER PIPE FLOOR PENETRATION ABOVE THE BASE (INITIAL) FLOOR PENETRATION.
2. PROVIDE FLEXIBLE, RESILIENT FIRE-STOPPING CAULK AND PACKING AT SLAB PENETRATION.
3. FOR INSULATED PIPING, CONTINUE PIPE INSULATION THRU THE FLOOR PENETRATION AND PROVIDE FIRE-STOPPING AROUND INSULATION AS REQUIRED. WHERE BELOW AMBIENT TEMPERATURE FLUIDS ARE CONVEYED IN THE PIPING (I.E., COLD OR CHILLED WATER), INSULATION WITH A VAPOR BARRIER SHALL BE PROVIDED ON THE RISER CLAMPS AND SUPPORT RINGS AND ALL OTHER METAL IN THERMAL CONTACT WITH THE PIPING.
4. AS REQUIRED PREVENT CONDENSATION ON COLD PIPES, PROVIDE A PRE-INSULATED RISER CLAMP SIMILAR TO BERGEN FIG. 8512.

RISER PIPE SUPPORT DETAIL
NTS



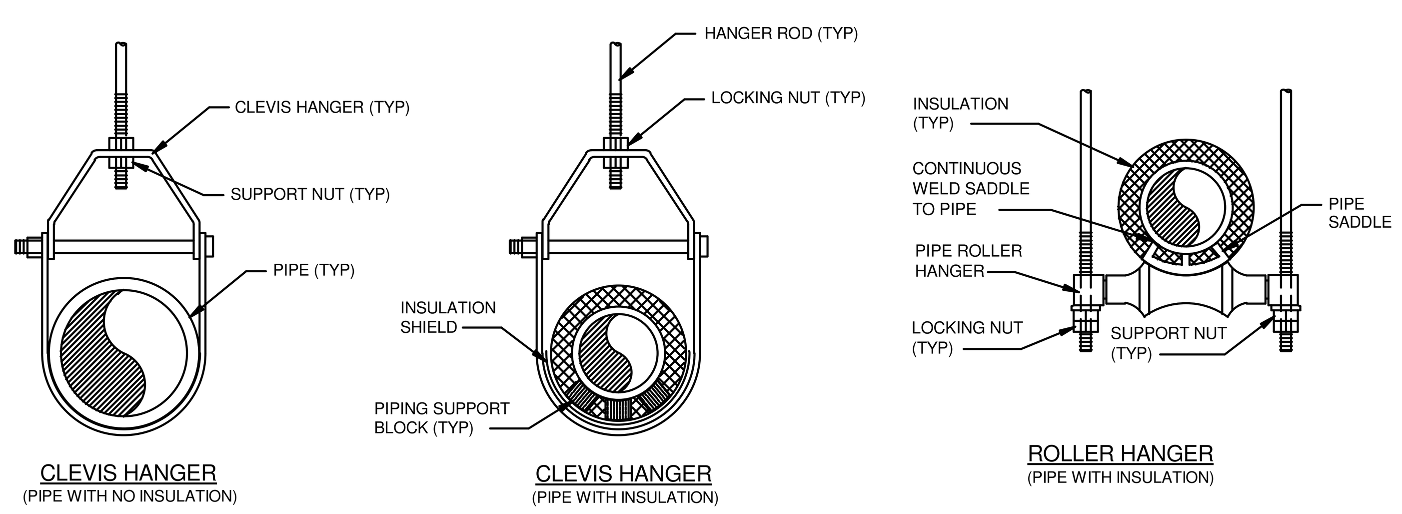
NOTES:
1. PROVIDE RISER ANCHOR AS SHOWN AT THE BASE (AT THE INITIAL FLOOR PENETRATION) OF EACH PIPE RISER.
2. PROVIDE FLEXIBLE, RESILIENT FIRE-STOPPING CAULK AND PACKING AT SLAB PENETRATION.
3. FOR INSULATED PIPING, CONTINUE PIPE INSULATION THRU THE FLOOR PENETRATION AND PROVIDE FIRE-STOPPING AROUND INSULATION AS REQUIRED. WHERE BELOW AMBIENT TEMPERATURE FLUIDS ARE CONVEYED IN THE PIPING (I.E., COLD OR CHILLED WATER), INSULATION WITH A VAPOR BARRIER SHALL BE PROVIDED ON THE RISER CLAMPS AND SUPPORT RINGS AND ALL OTHER METAL IN THERMAL CONTACT WITH THE PIPING.
4. AS REQUIRED PREVENT CONDENSATION ON COLD PIPES, PROVIDE A PRE-INSULATED RISER CLAMP SIMILAR TO BERGEN FIG. 8512.

PIPE RISER ANCHOR DETAIL
NTS



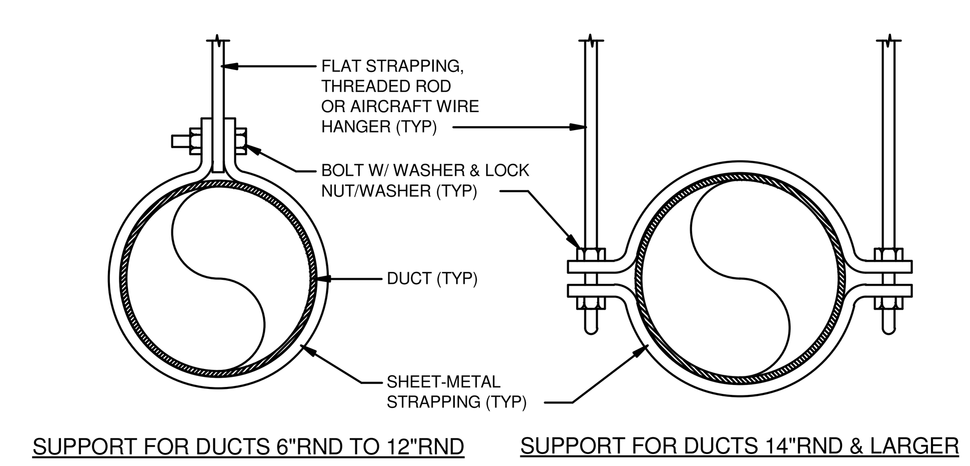
NOTES: 1. INSTALL PER MANUFACTURES INSTRUCTIONS.

ROOF EQUIPMENT SUPPORT DETAIL
NTS



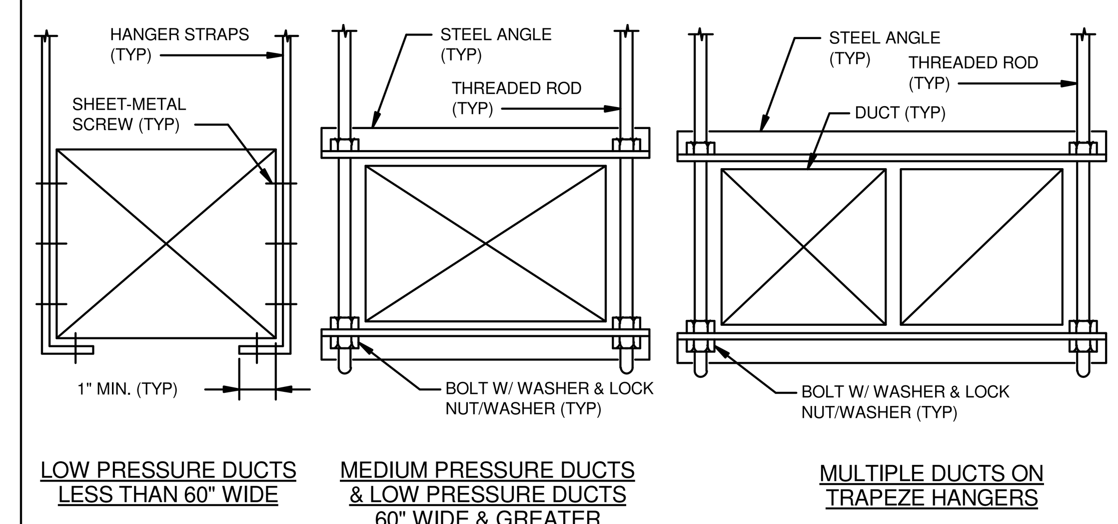
NOTES:
1. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION, FOR HANGER SPACING, AND FOR APPLICATION REQUIREMENTS.
2. SUPPORT HORIZONTAL PIPING AS REQUIRED. ANCHOR PIPING AND PROVIDE EXPANSION COMPENSATION AND SEISMIC BRACING AS APPROPRIATE.
3. MULTIPLE HORIZONTAL PIPE RUNS MAY BE SUPPORTED ON COMMON TRAPEZE HANGER ASSEMBLIES PROVIDED HANGERS AND HORIZONTAL SUPPORTS ARE PROPERLY SIZED FOR THE LOADS INVOLVED. ENGINEER REVIEW OF TRAPEZE HANGERS IS REQUIRED.
4. PROVIDE CONTINUOUS AND VAPOR BARRIER ON ALL COLD PIPES.

PIPE SUPPORT DETAILS
NTS



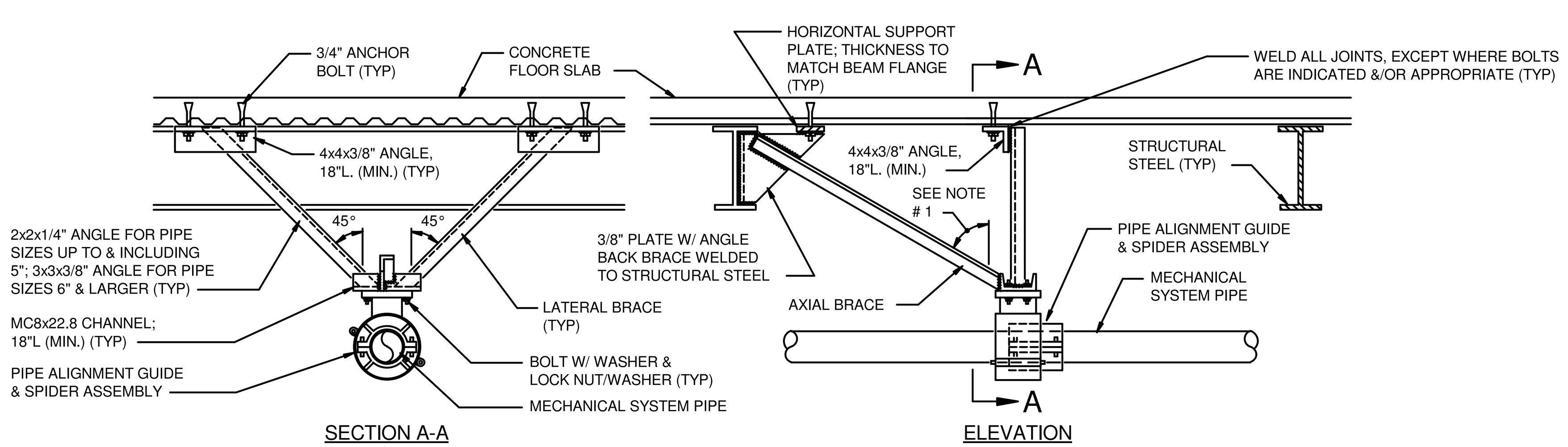
NOTES:
1. SELECT AND INSTALL HANGERS AND SUPPORTS AS PER SMACNA DUCT CONSTRUCTION STANDARDS IN ACCORDANCE WITH THE PRESSURE CLASSIFICATION OF EACH DUCT SYSTEM. HANGERS SHALL BE FLAT STRAPPING, THREADED ROD OR AIRCRAFT WIRE AS SPECIFIED. PROVIDE LATERAL OR SEISMIC BRACING AS APPROPRIATE TO THE INSTALLATION (REFER TO PROJECT SPECIFICATIONS).
2. ATTACH HANGERS TO BUILDING STRUCTURE VIA BEAM CLAMPS, EXPANSION ANCHORS, AND/OR CONCRETE INSERTS, AS APPROPRIATE TO THE APPLICATIONS. SUPPORT DUCTS AT 8 FT. O.C. MIN.
3. WHERE BELOW AMBIENT TEMPERATURE AIR IS CONVEYED IN THE DUCTWORK (I.E., SUPPLY AIR OR OUTSIDE AIR), INSULATION WITH A VAPOR BARRIER SHALL BE PROVIDED ON THE SUPPORTS AND HANGERS TO A POINT AT LEAST 6" CLEAR OF THE DUCT INSULATION. (APPLIES TO CONCEALED INSULATED DUCTWORK; DOES NOT APPLY TO UNINSULATED EXPOSED DUCTWORK.)
4. DUCT REINFORCEMENT MAY BE USED FOR ATTACHMENT AND SUPPORT PROVIDED IT QUALIFIES FOR BOTH DUTIES, AND DUCT STRENGTH IS NOT COMPROMISED BY USING REINFORCEMENT FOR SUPPORT.
5. SUBMIT DUCT SUPPORT DETAILS FOR ENGINEER'S REVIEW PRIOR TO FABRICATION.

ROUND DUCTWORK SUPPORT DETAIL
NTS



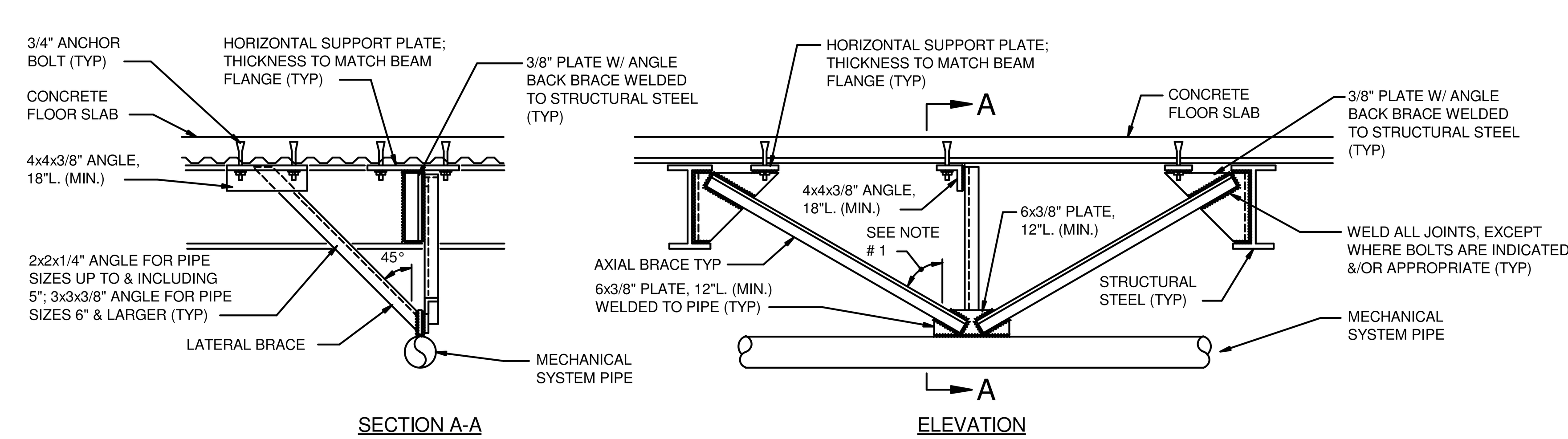
NOTES:
1. SELECT AND INSTALL HANGERS AND SUPPORTS AS PER SMACNA DUCT CONSTRUCTION STANDARDS IN ACCORDANCE WITH THE PRESSURE CLASSIFICATION OF EACH DUCT SYSTEM. HANGERS SHALL BE THREADED ROD, STRAPPING, ANGLE OR AIRCRAFT WIRE AS SPECIFIED. PROVIDE LATERAL OR SEISMIC BRACING AS APPROPRIATE TO THE INSTALLATION (REFER TO PROJECT SPECIFICATIONS).
2. ATTACH HANGERS TO BUILDING STRUCTURE VIA BEAM CLAMPS, EXPANSION ANCHORS, AND/OR CONCRETE INSERTS, AS APPROPRIATE TO THE APPLICATIONS. SUPPORT DUCTS AT 8 FT. O.C. MIN.
3. WHERE BELOW AMBIENT TEMPERATURE AIR IS CONVEYED IN THE DUCTWORK (I.E., SUPPLY AIR OR OUTSIDE AIR), INSULATION WITH A VAPOR BARRIER SHALL BE PROVIDED ON THE SUPPORTS AND HANGERS TO A POINT AT LEAST 6" CLEAR OF THE DUCT INSULATION. (APPLIES TO CONCEALED INSULATED DUCTWORK; DOES NOT APPLY TO UNINSULATED EXPOSED DUCTWORK.)
4. PROVIDE INTERMEDIATE SUPPORT WHERE TRAPEZE HANGERS EXCEED 60" IN LENGTH.
5. DUCT REINFORCEMENT MAY BE USED FOR ATTACHMENT AND SUPPORT PROVIDED IT QUALIFIES FOR BOTH DUTIES, AND DUCT STRENGTH IS NOT COMPROMISED BY USING REINFORCEMENT FOR SUPPORT.
6. SUBMIT DUCT SUPPORT DETAILS FOR ENGINEER'S REVIEW PRIOR TO FABRICATION.

RECTANGULAR DUCTWORK SUPPORT DETAIL
NTS



NOTES:
1. ANGLE OF BRACE SHALL BE AS REQUIRED TO ACCOMMODATE INSTALLED CONDITIONS OF PIPE. HOWEVER, HOWEVER, THE NEUTRAL AXIS OF THE BRACE AND THAT OF THE BEAM BEING ATTACHED TO SHALL INTERSECT AT THE UNDERSIDE OF THE METAL DECKING. THE NEUTRAL AXES OF THE TWO AXIAL BRACES SHALL INTERSECT AT THE NEUTRAL AXIS OF THE PIPE BEING ANCHORED. ADJUST ANCHOR PLATE LENGTH AS REQUIRED TO ACCOMMODATE THE AXIAL BRACE ALIGNMENT INDICATED (TYP).
2. GUIDES REQUIRE BRACING TO RESIST BOTH LATERAL AND AXIAL MOVEMENT. TWO LATERAL BRACES ARE REQUIRED, AND ONE AXIAL BRACE (AT A MINIMUM) IS REQUIRED. AXIAL BRACING MAY BE ON EITHER THE "UPSTREAM" OR "DOWNSTREAM" SIDE OF THE GUIDE. AS INSTALLED CONDITIONS DEMAND, THE AXIAL BRACE MAY BE ANCHORED TO THE FLOOR SLAB IN A SIMILAR MANNER TO THAT SHOWN FOR THE LATERAL BRACING.
3. FOR PIPING WHOSE AXIS IS PARALLEL TO THE STRUCTURAL BEAMS, THE LATERAL BRACES MAY BE ATTACHED TO THE BUILDING STRUCTURE IN A SIMILAR MANNER TO THAT SHOWN FOR THE AXIAL BRACE. (NOTE: THIS DETAIL SHOWS PIPING WHOSE AXIS IS PERPENDICULAR TO THE STRUCTURAL BEAMS.)
4. SELECT PIPE ALIGNMENT GUIDES APPROPRIATE FOR THE SPECIFIED INSULATION THICKNESS.
5. PIPE ALIGNMENT GUIDES SHALL NOT BE FASTENED DIRECTLY TO STRUCTURAL BEAMS WITHOUT PROVIDING ADDITIONAL LATERAL SUPPORT OR REINFORCEMENT FOR THE BOTTOM FLANGE OF THE BEAM TO WHICH THE GUIDE IS BEING ATTACHED. GUIDES SHALL NOT BE FASTENED TO STRUCTURAL ELEMENTS WITHOUT THE EXPRESS PERMISSION OF THE STRUCTURAL ENGINEER.
6. REPAIR ALL STRUCTURAL STEEL FIRE-PROOFING DISTURBED BY THE INSTALLATION OF PIPE ALIGNMENT GUIDE BRACING AND SUPPORTS.
7. ANCHOR BOLTS SHALL BE 3/4" HILTI DROP-IN ANCHORS, OR EQUIVALENT.
8. SUBMIT ALIGNMENT GUIDE SUPPORT DETAILS FOR ENGINEER'S REVIEW PRIOR TO FABRICATION.

HORIZONTAL PIPE GUIDE DETAIL
NTS



NOTES:
1. ANGLE OF BRACE SHALL BE AS REQUIRED TO ACCOMMODATE INSTALLED CONDITIONS OF PIPE. HOWEVER, THE NEUTRAL AXIS OF THE BRACE AND THAT OF THE BEAM BEING ATTACHED TO SHALL INTERSECT AT THE UNDERSIDE OF THE METAL DECKING. THE NEUTRAL AXES OF THE TWO AXIAL BRACES SHALL INTERSECT AT THE NEUTRAL AXIS OF THE PIPE BEING ANCHORED. ADJUST ANCHOR PLATE LENGTH AS REQUIRED TO ACCOMMODATE THE AXIAL BRACE ALIGNMENT INDICATED (TYP).
2. ANCHORS REQUIRE BRACING TO RESIST BOTH AXIAL AND LATERAL MOVEMENT. TWO AXIAL BRACES ARE REQUIRED, AND ONE LATERAL BRACE (AT A MINIMUM) IS REQUIRED. LATERAL BRACING MAY BE ON EITHER THE "LEFT-HAND" OR "RIGHT-HAND" SIDE OF THE ANCHOR.
3. THIS DETAIL SHOWS PIPING WHOSE AXIS IS PERPENDICULAR TO THE STRUCTURAL BEAMS.
4. WHERE BELOW AMBIENT TEMPERATURE FLUIDS ARE CONVEYED IN THE PIPING (I.E., COLD OR CHILLED WATER), INSULATION WITH A VAPOR BARRIER SHALL BE PROVIDED ON THE ANCHOR PLATE AND ALL BRACING TO A POINT AT LEAST 8" CLEAR OF THE PIPE INSULATION.
5. PIPE ANCHORS SHALL NOT BE FASTENED DIRECTLY TO STRUCTURAL BEAMS WITHOUT PROVIDING ADDITIONAL LATERAL SUPPORT OR REINFORCEMENT FOR THE BOTTOM FLANGE OF THE BEAM TO WHICH THE ANCHOR IS BEING ATTACHED. ANCHORS SHALL NOT BE FASTENED TO STRUCTURAL ELEMENTS WITHOUT THE EXPRESS PERMISSION OF THE STRUCTURAL ENGINEER.
6. REPAIR ALL STRUCTURAL STEEL FIRE-PROOFING DISTURBED BY THE INSTALLATION OF PIPE ANCHOR BRACING AND SUPPORTS.
7. ANCHOR BOLTS SHALL BE 3/4" HILTI DROP-IN ANCHORS, OR EQUIVALENT.
8. SUBMIT PIPE ANCHOR DETAILS FOR ENGINEER'S REVIEW PRIOR TO FABRICATION.

PIPE ANCHOR DETAIL
NTS

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RFS Project #: 7300.001

STATE OF MAINE
CHRISTOPHER M. SHUMWAY
No. 10820
LICENSED
PROFESSIONAL ENGINEER

Sanford School Department and State of Maine Department of Education

SANFORD HIGH SCHOOL and TECHNICAL CENTER

SANFORD, ME 04073

NO.	DESCRIPTION	DATE

N

CONTENT:
MECHANICAL DETAILS

DRAWN BY: D. Elliott
PROJECT NO: 12-067-00
DATE: 02/11/2016
REVISED:
SCALE:

M4.03

Project Phase
BID DOCUMENTS

FOR ADDITIONAL INFORMATION, REFER TO PROJECT MANUAL.

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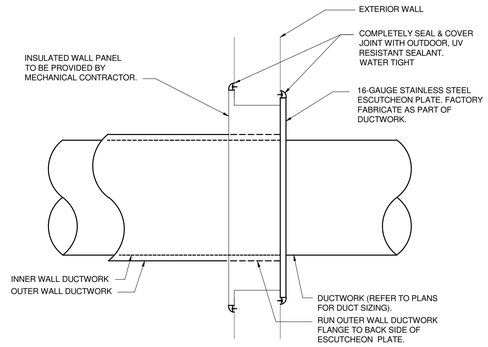
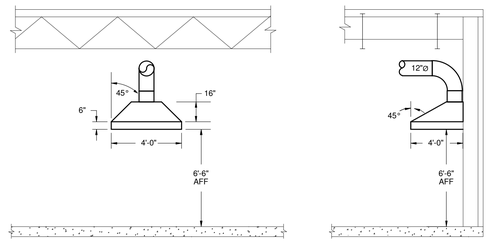


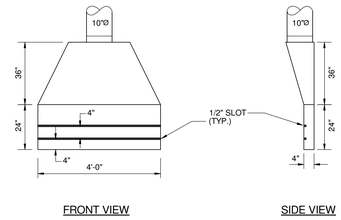
TYPICAL DUCT PENETRATION THROUGH EXTERIOR WALL

NTS



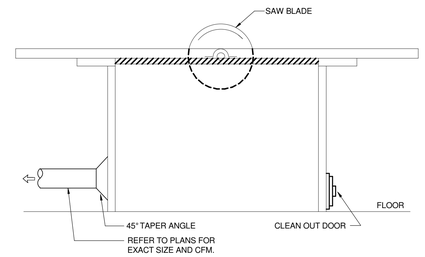
PROPANE TEMPERING FURNACE HOOD DETAIL

NTS



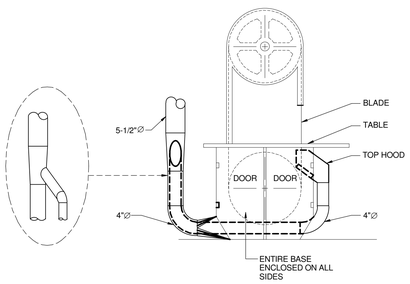
FINISH ROOM BACKDRAFT HOOD DETAIL

NTS



FLOOR TABLE SAW

NTS



BAND SAW

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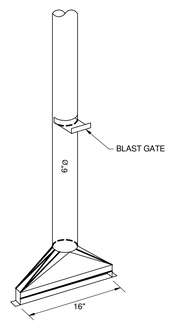
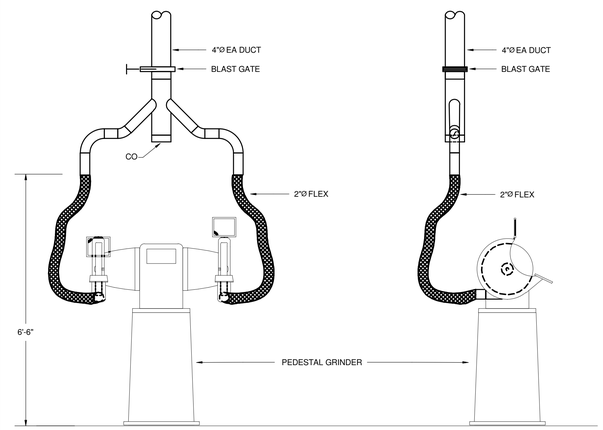


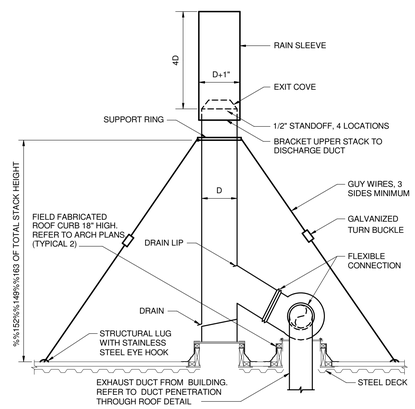
FLOOR SWEEP DETAIL

NTS



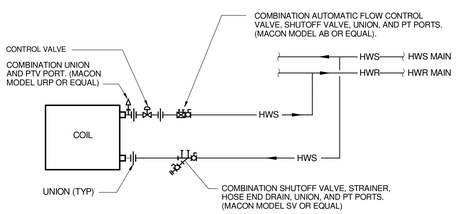
PEDESTAL GRINDER / DUST COLLECTOR Y-BRANCH DETAIL

NTS



LABORATORY HOOD EXHAUST FAN DETAIL

NTS

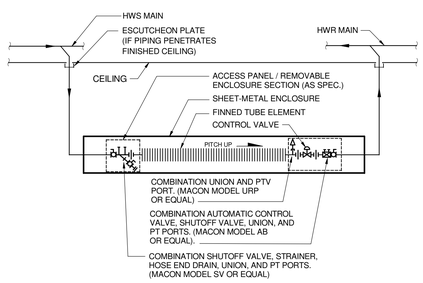


NOTES:

1. CONTROL VALVE MAY BE NORMALLY OPENED OR CLOSED FOR FLOW THRU THE HEATING COIL.
2. VERIFY FLOW WITH CONTROL VALVE FULLY OPEN . ADJUST CONTROL RANGE OF AUTOMATIC FLOW CONTROL VALVE AS RECOMMENDED BY MANUFACTURER.
3. PROVIDE VALVE TYPES (BALL; BUTTERFLY) AS APPROPRIATE TO THE APPLICATION & PIPE SIZE.
4. ARRANGE PIPING TO ALLOW FOR COIL REMOVAL W/ MINIMAL PIPING DISASSEMBLY. PIPE COILS PER MANUFACTURER INSTRUCTIONS.
5. THIS DETAIL APPLIES TO DUCT-MOUNTED HEATING COILS, VV AND/OR CV BOX HEATING COILS.

SV BOX HEATING COIL & DUCT-MOUNTED HEATING COIL PIPING DETAIL

NTS

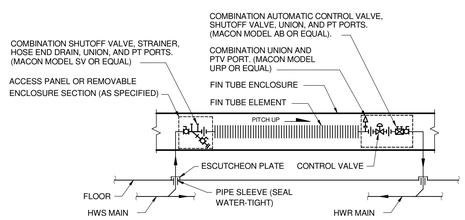


NOTES:

1. WHERE INDICATED ON THE DRAWINGS, ROUTE HWR PIPING BACK THROUGH ENCLOSURE & RISE ADJACENT TO HWS PIPING. OMIT INSULATION ON HWR PIPING WITHIN ENCLOSURE.
2. ROUTE ALL PIPING CONCEALED UNLESS OTHERWISE NOTED ON PLANS. PROVIDE FULL PVC JACKETING WHERE PIPING MUST BE EXPOSED IN FINISHED AND/OR PUBLIC SPACES.
3. WHERE SPACIAL CONSTRAINTS DICTATE, VALVING AND HYDRONIC SPECIALTIES MAY BE INSTALLED CONCEALED IN THE CEILING OF THE SPACE SERVED, PROVIDED UNIONS AND CAPPED DRAINS ARE INSTALLED AS INDICATED. VALVING AND SPECIALTIES SHALL BE INSTALLED IN CLOSE PROXIMITY TO ASSOCIATED FIN TUBE RADIATION. IN INSTANCES WHERE VALVING AND SPECIALTIES ARE INSTALLED REMOTE, ACCESS PANELS OR SECTIONS SHALL BE OMITTED.

FINNED TUBE RADIATION DETAIL (DOWN-FEED)

NTS

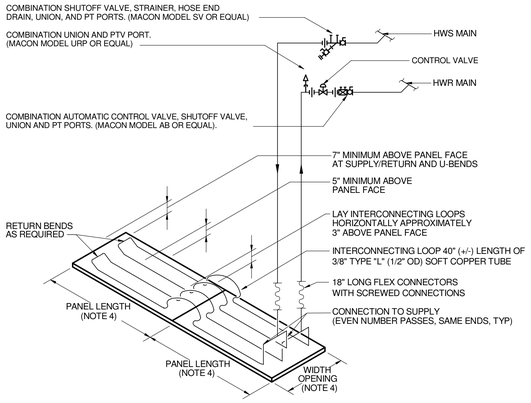


NOTES:

1. WHERE INDICATED ON THE DRAWINGS, ROUTE HWR PIPING BACK THROUGH ENCLOSURE & DROP ADJACENT TO HWS PIPING. OMIT INSULATION ON HWR PIPING WITHIN ENCLOSURE.
2. ROUTE ALL PIPING CONCEALED UNLESS OTHERWISE NOTED ON PLANS. PROVIDE FULLPVC JACKETING WHERE PIPING IS EXPOSED IN FINISHED AND/OR PUBLIC SPACES.
3. WHERE SPACIAL CONSTRAINTS DICTATE, VALVING AND HYDRONIC SPECIALTIES MAY BE INSTALLED CONCEALED IN THE CEILING OF THE SPACE BELOW, PROVIDED UNIONS AND AIR VENTS ARE INSTALLED AS INDICATED. VALVING AND SPECIALTIES SHALL BE INSTALLED IN CLOSE PROXIMITY TO ASSOCIATED FIN TUBE RADIATION. IN INSTANCES WHERE VALVING AND SPECIALTIES ARE INSTALLED REMOTE, ACCESS PANELS OR SECTIONS SHALL BE OMITTED.
4. INSTALL PIPE SLEEVES FLUSH WITH FINISHED FLOOR AND PROVIDE FIRE STOPPING

FINNED TUBE RADIATION DETAIL (UP-FEED)

NTS



1. PANELS SHALL BE INSTALLED PER MANUFACTURER'S INSTRUCTIONS.
2. RUNOUT PIPING WITHIN 4'-0" OF PANELS SHALL BE TYPE "L" SOFT COPPER TUBING.
3. AFTER INSTALLATION, APPLY 1-1/2" THICK INSULATION BLANKETS TO COMPLETELY COVER TOP OF PANELS.
4. REFER TO FLOOR PLAN FOR OVERALL PANEL LENGTHS. PANELS SHALL BE WALL TO WALL INSTALLATION.

RADIANT HEAT CEILING PANEL DETAIL

NTS

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RFS Project #: 7300.001

Sanford School Department and State of Maine Department of Education

SANFORD HIGH SCHOOL and TECHNICAL CENTER

SANFORD, ME 04073

NO.	DESCRIPTION	DATE

CONTENT: MECHANICAL DETAILS

DRAWN BY:	D. Elliott
PROJECT NO:	12-067-00
DATE:	02/11/2016
REVISED:	
SCALE:	

M4.04

Project Phase: BID DOCUMENTS

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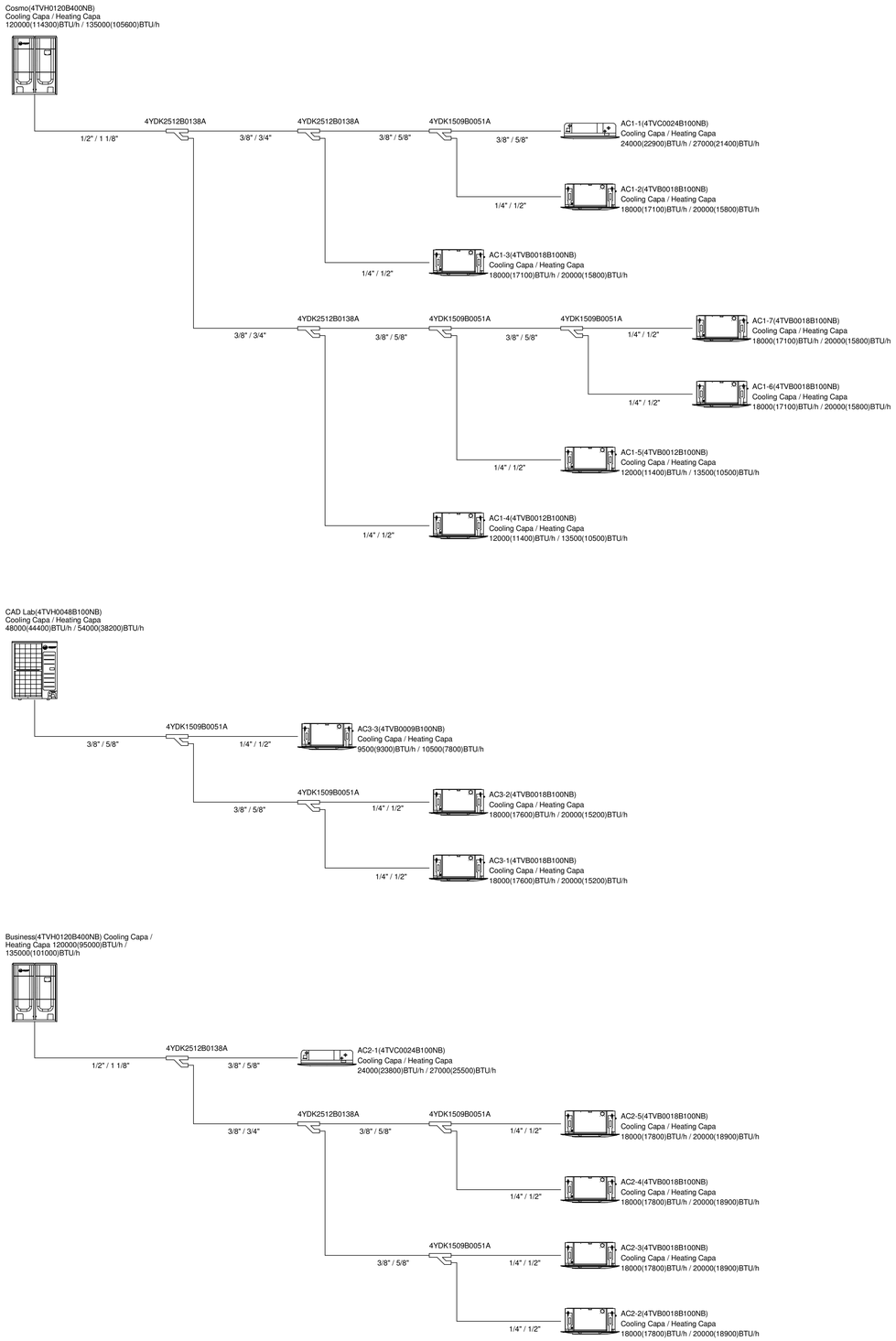
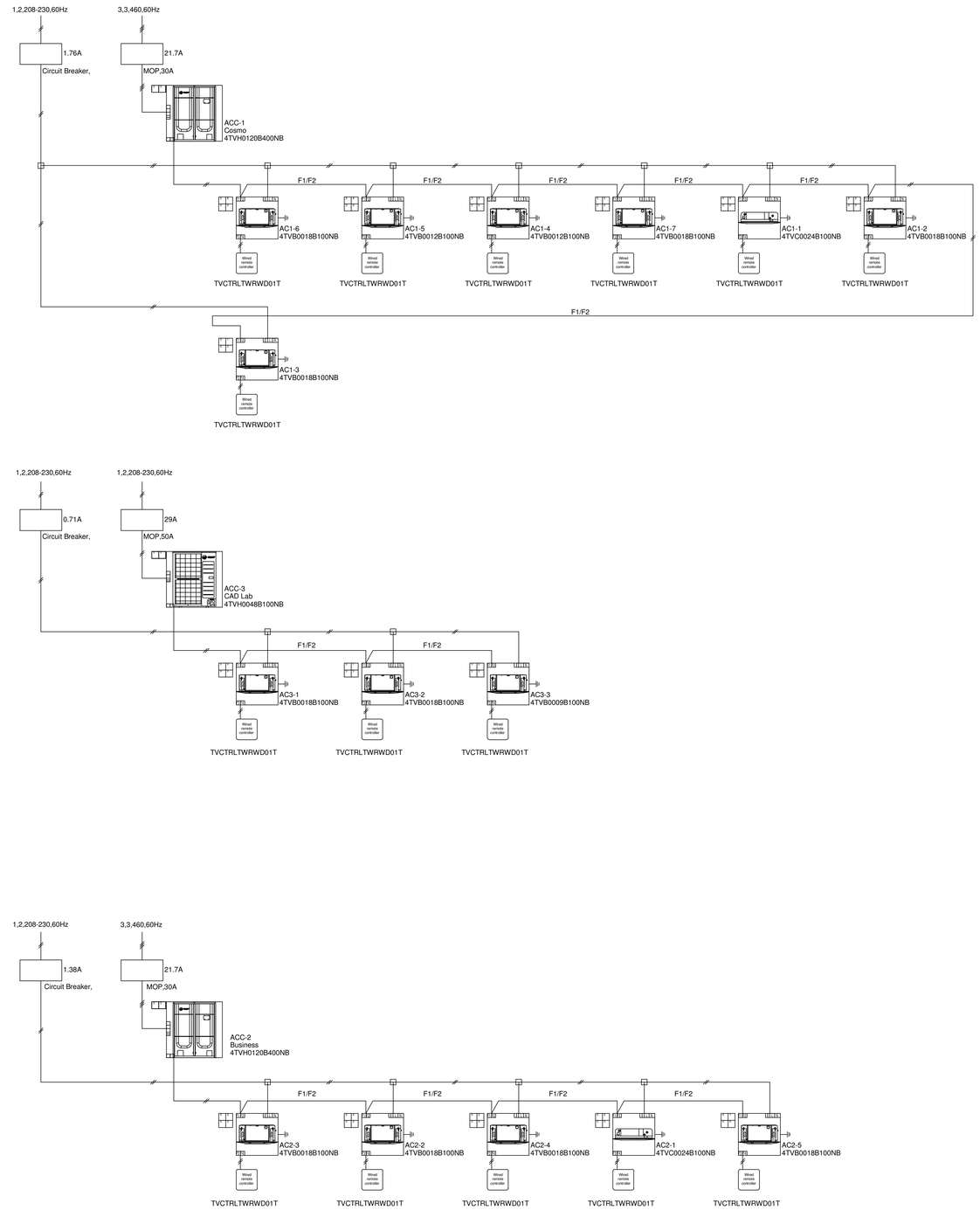


VARIABLE REFRIGERANT FLOW PIPING SCHEMATIC
NTS



VARIABLE REFRIGERANT FLOW ELECTRICAL DIAGRAM
NTS

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STATE OF MAINE CHRISTOPHER M. SHUMWAY No. 10697 LICENSED PROFESSIONAL ENGINEER

Sanford School Department and
State of Maine Department of
Education

SANFORD HIGH SCHOOL and TECHNICAL CENTER

SANFORD, ME 04073

NO.	DESCRIPTION	DATE

CONTENT:
MECHANICAL VRF SCHEMATICS

DRAWN BY:	D.R.E
PROJECT NO:	12-067-00
DATE:	02/11/2016
REVISED:	
SCALE:	

M4.05

Project Phase
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MECHANICAL DEHUMIDIFICATION AIR HANDLING UNIT SCHEDULE - DHU

TAG	NUMBER	LOCATION	SERVES	SUPPLY FAN DATA: TOTAL UNIT AIRFLOW (CFM)	MIN. O.A. CFM	TSP (W.C.)	ESP (W.C.)	FAN TYPE	FAN RPM	FAN MOTOR HP	MAX FAN BHP	EXHAUST/RETURN FAN DATA: CFM	TSP (W.C.)	ESP (W.C.)	FAN TYPE	FAN RPM	FAN MOTOR HP	MAX FAN BHP	ENERGY RECOVERY DATA - WINTER CONDITIONS: OA EAT (F) DB/WB	OA LAT (F) DB/WB	EA EAT (F) DB/WB	EA LAT (F) DB/WB	CAPC. MBH TOTAL / SENSIBLE	SUMMER CONDITIONS: OA EAT (F) DB/WB	OA LAT (F) DB/WB	EA EAT (F) DB/WB	EA LAT (F) DB/WB	CAPC. MBH TOTAL / SENSIBLE	DIRECT EXPANSION COIL DATA: EAT DB/WB (F)	LAT DB/WB (F)	TOTAL CAP. MBH	SENS. CAP. MBH	HEATING COIL DATA: EAT (F)	LAT (F)	EWT (F)	LWT (F)	GPM	MBH	HOT GAS REHEAT DATA: EAT DB (F)	LAT DB (F)	LAT WB (F)	MBH	COMPRESSOR DATA: TYPE	# COMP. Qty	CONDENSER FAN DATA: COND. QUANITY	COND. FAN HP (EA.)	FILTERS: TYPE & EFF.	MAX F.V. (FPM)	ELECTRICAL: VOLTS	PHASE	MCA	MFS	FLA	REMARKS
DHU	1A	ROOF	B-WING: LEVEL 2 ARTS & COMMUNICATION	8,000	100%	3.6	2.0	PLENUM	2135	10	7.2	8,000	3.2	2.0	PLENUM	2113	10	6.9	-10 / -11	45.5 / 37.5	70.0 / 53.0	14.8 / 14.8	581.5/486.2	81.9 / 72.1	77.1 / 66.3	75 / 62.5	79.8 / 68.8	170.8/42.0	77.1 / 66.2	50.3 / 50.2	360.0	217.5	NA	NA	NA	NA	NA	NA	45.2	60.53	54.6	88.8	SCROLL	3	4	1	MERV 8	500	460	3	97.2	110	92.5	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 14, 15, 18 MODEL OAND420A4-D1B400JT-00000AF7JT-G52B0B5C0
DHU	1B	ROOF	B-WING: LEVEL 1 ARTS & COMMUNICATION	8,000	100%	3.6	2.0	PLENUM	2135	10	7.2	8,000	3.2	2.0	PLENUM	2113	10	6.9	-10 / -11	45.5 / 37.5	70.0 / 53.0	14.8 / 14.8	581.5/486.2	81.9 / 72.1	77.1 / 66.3	75 / 62.5	79.8 / 68.8	170.8/42.0	77.1 / 66.2	50.3 / 50.2	360.0	217.5	NA	NA	NA	NA	NA	NA	45.2	60.53	54.6	88.8	SCROLL	3	4	1	MERV 8	500	460	3	97.2	110	92.5	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 14, 15, 18 MODEL OAND420A4-D1B400JT-00000AF7JT-G52B0B5C0
DHU	2	ROOF	C-WING: LEVEL 2 SCIENCE & TECH	5,000	100%	2.8	2.0	PLENUM	1621	5	3.1	5,000	2.2	1.5	PLENUM	1530	5	2.7	-10 / -11	50.2 / 41.2	70.0 / 53.0	9.8 / 9.8	400.9/333.7	81.9 / 72.1	76.7 / 65.4	75 / 62.5	80.2 / 69.7	121.9 / 28.8	76.7 / 64.5	43.8 / 43.8	290.5	173.6	NA	NA	NA	NA	NA	NA	50.2	63.1	52.7	104.5	SCROLL	3	4	1	MERV 8	500	460	3	75.2	90	69.5	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 14, 15, 18 MODEL OAND360A4-D1B400JN-00000AF7JN-G52B005C0
DHU	3	ROOF	C-WING: LEVEL 1 SCIENCE & TECH	13,000	100%	4.2	2.0	PLENUM	2550	20	13.5	13,000	-	2.0	PLENUM	2116	10	7.0	-10 / -11	45.0 / 37.4	70.0 / 53.0	15.0 / 15.0	942.2/770.8	81.9 / 72.1	77.2 / 66.3	75 / 62.5	79.7 / 68.8	276.7/66.4	77.2 / 66.3	51.1 / 51.1	556.2	339.8	NA	NA	NA	NA	NA	NA	45.0	64.9	56.8	195.1	SCROLL	3	4	1	MERV 8	500	460	3	142.2	150	136.5	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 14, 15, 18 MODEL OAND648A4-D1B400LT-00000OAFLN-G82B0B5C0
DHU	4	ROOF	C-WING: SHOPS WELDING & MANUFACTURING	10,000	100%	3.6	2.0	PLENUM	2175	10	8.3	10,000	3.2	2.0	PLENUM	2112	10	7.7	-10 / -11	46.3 / 38.3	70.0 / 53.0	13.7 / 13.7	744.2/619.0	90.0 / 72.0	79.4 / 65.8	75 / 62.5	85.6 / 69.1	221.0/116.1	79.4 / 65.8	50.7 / 50.7	425.1	295	NA	NA	NA	NA	NA	NA	46.3	59.8	54.7	95.6	SCROLL	3	4	1	MERV 8	500	460	3	111.2	125	105.5	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 14, 15, 18 MODEL OAND540A4-D1B400LN-00000AF7LN-G71B005C0
DHU	5	ROOF	C-WING: SHOPS AUTOMOTIVE & BUILDING TRADES	10,000	100%	3.6	2.0	PLENUM	2175	10	8.3	10,000	3.2	2.0	PLENUM	2112	10	7.7	-10 / -11	46.3 / 38.3	70.0 / 53.0	13.7 / 13.7	744.2/619.0	90.0 / 72.0	79.4 / 65.8	75 / 62.5	85.6 / 69.1	221.0/116.1	79.4 / 65.8	50.7 / 50.7	425.1	295	NA	NA	NA	NA	NA	NA	46.3	59.8	54.7	95.6	SCROLL	3	4	1	MERV 8	500	460	3	111.2	125	105.5	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 14, 15, 18 MODEL OAND540A4-D1B400LN-00000AF7LN-G71B005C0
DHU	6A	ROOF	FACS CULINARY LAB	5,610	100%	3.0	2.0	PLENUM	1589	5	2.99	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	81.2 / 72.1	50.7 / 50.6	375.8	186.7	-10	74	160	130	36.2	544	-	-	-	-	SCROLL	2	4	1	MERV 8	500	460	3	78.6	100	72.2	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 14, 15, 16, 17, 18 MODEL OAND360A4-D1B400JN-00000AF7JN-G52B005C0
DHU	6B	ROOF	D-WING: LEVEL 1 MARKETING & COSMETOLOGY	8,000	100%	3.6	2.0	PLENUM	2135	10	7.2	8,000	3.2	2.0	PLENUM	2113	10	6.9	-10 / -11	45.5 / 37.5	70.0 / 53.0	14.8 / 14.8	581.5/486.2	81.9 / 72.1	77.1 / 66.3	75 / 62.5	79.8 / 68.8	170.8/42.0	77.1 / 66.2	50.3 / 50.2	360.0	217.5	NA	NA	NA	NA	NA	NA	45.2	60.5	54.6	88.8	SCROLL	3	4	1	MERV 8	500	460	3	97.2	110	92.5	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 14, 15, 18 MODEL OAND420A4-D1B400JT-00000AF7JT-G52B0B5C0
DHU	7	ROOF	D-WING: LEVEL 2 SCIENCE & BUSINESS	10,000	100%	3.6	2.0	PLENUM	2175	10	8.3	10,000	3.2	2.0	PLENUM	2112	10	7.7	-10 / -11	46.3 / 38.3	70.0 / 53.0	13.7 / 13.7	744.2/619.0	90.0 / 72.0	79.4 / 65.8	75 / 62.5	85.6 / 69.1	221.0/116.1	79.4 / 65.8	50.7 / 50.7	425.1	295	NA	NA	NA	NA	NA	NA	46.3	59.8	54.7	95.6	SCROLL	3	4	1	MERV 8	500	460	3	111.2	125	105.5	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 14, 15, 18 MODEL OAND540A4-D1B400LN-00000AF7LN-G71B005C0
DHU	8	ROOF	E-WING: LEVEL 1 & 2 SCIENCE, EMS, FIRE & PATHWAY	13,000	100%	4.2	2.0	PLENUM	2550	20	13.5	13,000	-	2.0	PLENUM	2116	10	7.0	-10 / -11	45.5 / 37.5	70.0 / 53.0	15.0 / 15.0	942.2/770.8	81.9 / 72.1	77.2 / 66.3	75 / 62.5	85.6 / 69.1	276.7/66.4	77.2 / 66.3	51.1 / 51.1	556.2	339.8	NA	NA	NA	NA	NA	NA	45.0	64.9	56.8	195.1	SCROLL	3	4	1	MERV 8	500	460	3	142.2	150	136.5	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 14, 15, 18 MODEL OAND648A4-D1B400LT-00000OAFLN-G82B0B5C0
DHU	9	ROOF	E-WING: LEVEL 1 HEALTH OCC. & CLASSROOMS	10,000	100%	3.6	2.0	PLENUM	2175	10	8.3	10,000	3.2	2.0	PLENUM	2112	10	7.7	-10 / -11	46.3 / 38.3	70.0 / 53.0	13.7 / 13.7	744.2/619.0	90.0 / 72.0	79.4 / 65.8	75 / 62.5	85.6 / 69.1	221.0/116.1	79.4 / 65.8	50.7 / 50.7	425.1	295	NA	NA	NA	NA	NA	NA	46.3	59.8	54.7	95.6	SCROLL	3	4	1	MERV 8	500	460	3	111.2	125	105.5	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 14, 15, 18 MODEL OAND540A4-D1B400LN-00000AF7LN-G71B005C0
DHU	10	ROOF	F-WING: LOCKER ROOMS	8,000	100%	3.6	2.0	PLENUM	2135	10	7.2	8,000	3.2	2.0	PLENUM	2113	10	6.9	-10 / -11	45.5 / 37.5	70.0 / 53.0	14.8 / 14.8	581.5/486.2	81.9 / 72.1	77.1 / 66.3	75 / 62.5	79.8 / 68.8	170.8/42.0	77.1 / 66.2	50.3 / 50.2	360.0	217.5	NA	NA	NA	NA	NA	NA	45.2	60.5	54.6	88.8	SCROLL	3	4	1	MERV 8	500	460	3	97.2	110	92.5	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 14, 15, 18 MODEL OAND540A4-D1B400LN-00000AF7LN-G71B005C0
DHU	11	ROOF	F-WING: FITNESS	6,000	100%	2.3	2.0	PLENUM	1662	5	3.4	6,000	1.9	1.0	PLENUM	1603	5	3.0	-10 / -11	48.6 / 40.0	70.0 / 53.0	11.4 / 11.4	467.2/387.9	81.9 / 72.1	76.8 / 65.6	75 / 62.5	80.1 / 69.4	140.5/33.5	76.8 / 65.7	47.7 / 47.7	299.6	181	NA	NA	NA	NA3	NA	NA	46.3	64.6	55.03	109.8	SCROLL	2	4	1	MERV 8	500	460	3	77.5	100	71.1	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 14, 15, 18 MODEL OAND360A4-D1B400JN-00000AF7JN-G52B005C0
DHU	12	ROOF	A-AREA: LEVEL 1 & 2 LOBBY/CORE	10,000	100%	3.6	2.0	PLENUM	2175	10	8.3	10,000	3.2	2.0	PLENUM	2112	10	7.7	-10 / -11	46.3 / 38.3	70.0 / 53.0	13.7 / 13.7	744.2/619.0	90.0 / 72.0	79.4 / 65.8	75 / 62.5	85.6 / 69.1	221.0/116.1	79.4 / 65.8	50.7 / 50.7	425.1	295	NA	NA	NA	NA	NA	NA	46.3	59.8	54.7	95.6	SCROLL	3	4	1	MERV 8	500	460	3	111.2	125	105.5	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 14, 15, 18 MODEL OAND540A4-D1B400LN-00000AF7LN-G71B005C0

1. SELECTION BASED ON TRANE HORIZON SERIES.
2. WITH SINGLE POINT POWER CONNECTION.
3. WITH UNIT MOUNTED DISCONNECT SWITCH W/115V OUTLET.
4. WITH MODULATING HOT GAS REHEAT.
5. WITH DIGITAL SCROLL PRIMARY CIRCUIT.
6. DISCHARGE AIR CONTROL WITH BACNET INTERFACE AND DISPLAY.
7. WITH SINGLE POINT POWER CONNECTION.
8. WITH 2" DOUBLE WALL CONSTRUCTION.
9. WITH MODULATING OA/RA DAMPER W/ ECONOMIZER CONTROL.
10. WITH SUPPLY AND EXHAUST FAN PIEZO RING AIRFLOW MONITORING.
11. WITH STAINLESS STEEL DRIP PAN.
12. WITH CONDENSER HAILGUARD AND LED SERVICE LIGHT.
13. WITH SUPPLY DISCHARGE AIR SENSOR.
14. WITH 5 YEAR COMPRESSOR WARRANTY AND 25 YEAR HX WARRANTY.
15. WITH 36" HIGH AUX MOD 1" VIBRATION ISOLATION HORIZONTAL DISCHARGE CURB.
16. WITHOUT ENERGY RECOVERY.
17. WITH HOT WATER HEATING COIL.
18. WITH SUPPLY & EXHAUST AIR SMOKE DETECTOR. REFER TO MECHANICAL ROOF PLANS FOR ADDITIONAL INFORMATION.

MECHANICAL ROOF TOP AIR HANDLING UNIT SCHEDULE - RTU

TAG	NUMBER	LOCATION	SERVES	SUPPLY FAN DATA: TOTAL UNIT AIRFLOW (CFM)	MIN. O.A. CFM	TSP (W.C.)	ESP (W.C.)	FAN TYPE	FAN RPM	FAN HP	FAN BHP	EXHAUST/RETURN FAN DATA: CFM	ESP (W.C.)	FAN TYPE	FAN RPM	FAN HP	FAN BHP	HEATING COIL DATA: EAT DB/WB (F)	LAT DB/WB (F)	EWT (F)	LWT (F)	MBH	GPM	DIRECT EXPANSION COIL DATA: FACE VELOCITY (FPM)	EAT DB/WB (F)	LAT DB/WB (F)	TOTAL CAP. MBH	SENS. CAP. MBH	COMPRESSOR / CONDENSER SECTION: NOMINAL TONS	# COMPRESSOR/TON	COMPRESSOR RLA (PER COMPRESSOR)	CONDENSER FAN QUANTITY	CONDENSER FAN HP (EA.)	CONDENSER FAN FLA	REFRIG. TYPE	HOT GAS REHEAT DATA: EAT DB/WB (F)	LAT DB/WB (F)	LATENT CAPACITY	SENSIBLE CAPACITY	FILTER DATA: TYPE	MAX .F.V. (FPM)	ELECTRICAL DATA: VOLTS	PHASE	MCA	MOCP	EER	IEER	REMARKS
AHU	1	ROOF	A-AREA: AUDITORIUM	15,000		4.1	1.7	FC	1141	25	19.34	14,500	1.4	EXHAUST - FC	754	7.5	6.57	-	85	160	140	732.1	73.3	395	84 / 70	58.7 / 57.9	595.8	423.4	50	1-25 VS / 1-11.5 / 1-10.5	32.6 / 20.2 / 19.1	6	1.0	10.8	R-410A	75 / 67	61 / 53.5	262.21	258.3	MERV 8	400	460	3	128.48	150	10.6	14.3	1, 2, 3, 4, 5, 6, 7, 9, 10, 11, 12, 13, 14, 15, 16, INTELLIPAK MODEL SLHF50
AHU	2	ROOF	A-AREA: STAGE	5,000		3.3	1.7	FC	1215	10	7.63	5,000	1.2	EXHAUST - FC	799	3	2.27		95	160	135	309.25	24.8	246	84 / 70	55.7 /	245.5	155.22	20	2-10.5	19.1	2	1.0	3.6	R-410A	75 / 67	66 / 55	119.41	27.18	MERV 8	400	460	3	64.47	80	10.3	13.6	1, 2, 3, 4, 5, 6, 7, 9, 10, 11, 12, 13, 14, 15, 16, INTELLIPAK MODEL SLHF20
AHU	3	ROOF	F-WING: GYM	12,000		3.8	1.7	FC	1079	20	14.97	11,500	1.4	EXHAUST - FC	756	7.5	5.23		80	160	140	805.4	80.6	316	84 / 70	55.81 / 55.18	572.8	379.3	50	1-25 VS / 1-11.5 / 1-10.5	32.6 / 20.2 / 19.1	6	1.0	10.8	R-410A	75 / 67	61 / 50.5	266.0	208.2	MERV 8	400	460	3	128.48	150	10.6	14.3	1, 2, 3, 4, 5, 6, 7, 9, 10, 11, 12, 13, 14, 15, 16, INTELLIPAK MODEL SLHF50
AHU	4	ROOF	F-WING: PRACTICE GYM	8,000		4.0	1.7	FC	1371	15	12.2	7,500	1.4	EXHAUST - FC	885	5	3.6		82	160	130	431.0	28.8	394	84 / 70	59.1 / 58.2	310.5	220.3	25	1-10 / 1-13.5	22.5 / 19.1	3	1.0	5.4	R-410A	75 / 67	66 / 53.8	137.46	91.4	MERV 8	400	460	3	75.0	90	10.3	13.8	1, 2, 3, 4, 5, 6, 7, 9, 10, 11, 12, 13, 14, 15, 16, INTELLIPAK MODEL SLHF25
AHU	5	ROOF	B-WING: GRAPHIC, VIDEO, SPEC. NEEDS	12,000		3.3	2.5	FC	1010	15	12.72	11,000	1.8	RETURN - FC	1270	7.5	5.8		75	160	130	460.8	30.75	369	80 / 67	55.5 / 54.86	453.1	326.7	40	1-17 VS / 1-9.0 / 1-7.5	26.0 / 15.9 / 13.1	4	1.0	7.2	R-410A	NA	NA	NA	NA	MERV 8	400	460	3	97.72	110	10.4	14.2	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 17 INTELLIPAK MODEL SLHF40
AHU	6	ROOF	A-AREA: KITCHEN, DINING	9,000	8,200	3.7	1.7	FC	974	15	10.39	7,500	1.0	EXHAUST - FC	640	5.0	2.55		72	160	130	693.0	46.2	277	86 / 72	57.2 / 56.3	469.4	287.6	40	1-17 VS / 1-9.0 / 1-7.5	26.0 / 15.9 / 13.1	4	1.0	7.2	R-410A	75 / 67	66 / 50	166.0	103.8	MERV 8	400	460	3	94.92	110	10.4	14.2	1, 2, 3, 4, 5, 6, 7, 9, 10, 11, 12, 13, 14, 15, 16, 17 INTELLIPAK MODEL SLHF40
AHU	7	ROOF	A-AREA: LEVEL 1 & 2 OFFICES & FACULTY	12,000	3,000	3.4	2.5	FC	1010	15	12.72	11,000	1.8	RETURN - FC	1270	7.5	5.8	-	74	160	125	434.3	25.0	369	80 / 67	55.5 / 54.9	453.1	326.7	40	1-17 VS / 1-9.0 / 1-7.5	26.0 / 15.9 / 13.1	4	1.0	7.2	R-410A	NA	NA	NA	NA	MERV 8	400	460	3	97.72	110	10.4	14.2	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 17 INTELLIPAK MODEL SLHF40
AHU	8	ROOF	D-WING: CULINARY ARTS	9,000	8,850	3.4	2.5	FC	974	15	10.30	8,000	1.8	EXHAUST - FC	640	5	2.55		72	160	130	693.0	46.2	277	86 / 72	57.4 / 56.3	469.4	287.6	40	1-17 VS / 1-9.0 / 1-7.5	26.0 / 15.9 / 13.1	4	1.0	7.2	R-410A	NA	NA.	NA	NA	MERV 8	400	460	3	94.92	110	10.4	14.2	1, 2, 3, 4, 5, 6, 7, 9, 10, 11, 12, 13, 14, 15, 16, 17 INTELLIPAK MODEL SLHF40
AHU	9	ROOF	A-AREA: LEVEL 1 & 2 LIBRARY & SPECIAL ED	12,000		4.3	2.5	FC	1138	20	17.25	11,500	1.8	RETURN - FC	780	7.5	5.6		60	160	130	460.8	30.8	369	80 / 67	55.5 / 54.84	453.2	326.7	40	1-17 VS / 1-9.0 / 1-7.5	26.0 / 15.9 / 13.1	4	1.0	7.2	R-410A	NA	NA	NA	NA	MERV 8	400	460	3	106.47	125	10.4	14.2	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 17 INTELLIPAK MODEL SLHF40

1. SELECTION BASED ON TRANE.
2. CUSTOM COLOR SELECTED BY ARCHITECT.
3. DX COIL PRESSURE DROPS ALLOWED FOR IN SUPPLY SIDE TOTAL STATIC PRESSURE DROPS INDICATED.
4. WITH VARIABLE FREQUENCY DRIVES FOR SUPPLY AND RETURN FANS.
5. WITH STAINLESS STEEL DRAIN PANS.
6. WITH OUTSIDE AIR MONITORING STATION (TRAQ DAMPER).
7. WITH CARBON DIOXIDE BASED DCV. AND HOT GAS BYPASS
8. WITH 100% RETURN FAN W/STATITRAC PRESSURE CONTROLS.
9. WITH BACNET COMMUNICATIONS INTERFACE MODULE.
10. WITH FACTORY MOUNTED DISCONNECT.
11. WITH DOUBLE WALL CASING CONSTRUCTION.
12. WITH PREMIUM EFFICIENCY MOTORS.
13. WITH VARIABLE SPEED COMPRESSOR.
14. WITH OPTIONAL SPRING ISOLATED ACOUSTICAL ROOF CURB.
15. WITH MODULATING HOT GAS REHEAT DEHUMIDIFICATION
16. WITH 100% EXHAUST FAN W/STATITRAC PRESSURE CONTROLS.
17. WITH SUPPLY & EXHAUST AIR SMOKE DETECTOR. REFER TO MECHANICAL ROOF PLANS FOR ADDITIONAL INFORMATION.

MECHANICAL BOILER SCHEDULE - B

TAG	NUMBER	LOCATION	FUEL	INPUT MBH	OUTPUT MBH	FLUE SIZE DIA.	BOILER HP	ELECTRICAL DATA: FLA	VOLT	PH	REMARKS
B	1	MECH ROOM B057	NATURAL GAS	3300	3168	12	94.6	7	208	3	CLEARFIRE MODEL CFC 3300
B	2	MECH ROOM B057	NATURAL GAS	3300	3168	12	94.6	7	208	3	CLEARFIRE MODEL CFC 3300
B	3	MECH ROOM B057	NATURAL GAS	3300	3168	12	94.6	7	208	3	CLEARFIRE MODEL CFC 3300
B	4	MECH ROOM B057	NATURAL GAS	3300	3168	12	94.6	7	208	3	CLEARFIRE MODEL CFC 3300
B	5	MECH ROOM B057	NATURAL GAS	3300	3168	12	94.6	7	208	3	CLEARFIRE MODEL CFC 3300

1. SELECTION BASED ON TACO.

MECHANICAL PUMP SCHEDULE - CP, HWP

TAG	NUMBER	SERVES	LOCATION	TYPE	GPM	TOTAL HEAD (W.C.)	MOTOR DATA: HP	VOLT	PH	RPM	REMARKS
CP	1	AHU-1	MAIN GYM (ADJACENT)	IN-LINE	73	17	3/4	460	3	1760	TACO MODEL KV3006 WITH VFD CONTROL
CP	2	AHU-2	MAIN GYM (ADJACENT)	IN-LINE	25	17	1/3	115	1	1760	TACO MODEL 1911
CP	3	AHU-3	PRACTICE GYM (ADJ)	IN-LINE	81	17	3/4	460	3	1760	TACO MODEL KV3006 WITH VFD CONTROL
CP	4	AHU-4	FITNESS	IN-LINE	29	17	1/3	115	1	1760	TACO MODEL 1911
CP	5	AHU-5	ARTS & COMM B220	IN-LINE	31	17	1/3	115	1	1760	TACO MODEL 1911
CP	6	AHU-6	MAIN COMMON A220	IN-LINE	46.2	17	1/2	115	1	1760	TACO MODEL KV1506
CP	7	AHU-7	CAREER DESK A214	IN-LINE	25	17	1/3	115	1	1760	TACO MODEL 1911
CP	8	AHU-8	EARTH SCIENCE D237	IN-LINE	46.2	17	1/2	115	1	1760	TACO MODEL KV1506
CP	9	AHU-9	LEARNING CENTER A224	IN-LINE	31	17	1/3	115	1	1760	TACO MODEL 1911
CP	D6	DHU-6A	PRINT-LAB D210	IN-LINE	36	17	1/2	115	1	1760	TACO MODEL KV1506
HWP	1	HEATING HOT WATER	MECH ROOM B057	IN-LINE	800	90	25	460	3	1760	TACO MODEL 6011 WITH VFD CONTROL
HWP	2	HEATING HOT WATER	MECH ROOM B057	IN-LINE	800	90	25	460	3	1760	TACO MODEL 6011 WITH VFD CONTROL
HWP	3	HEATING HOT WATER	MECH ROOM B057	IN-LINE	25	17	3/4	460	3	1760	TACO MODEL KV3006 WITH VFD CONTROL
HWP	4	HEATING HOT WATER	MECH ROOM B057	IN-LINE	25	17	3/4	460	3	1760	TACO MODEL KV3006 WITH VFD CONTROL

1. SELECTION BASED ON TACO.

MECHANICAL COMBUSTION AIR FAN SCHEDULE - CAF

TAG	NUMBER	SERVES	LOCATION	CFM	SP IN WC	FAN TYPE	DRIVE TYPE	FAN RPM	ELECTRICAL DATA: HP	VOLT	PH	REMARKS
CAF	1	BOILERS	BOILER ROOM	4364	0.111	INLINE CENT.	DIRECT	1720	1.0	460	3	1, 2, 3, 4 MODELRSV-2

1. SELECTION BASED ON ENERVEX.

MECHANICAL SOUND ATTENUATOR SCHEDULE - SA

TAG	NUMBER	SERVES	CFM	PD IN WG	ATTENUATOR SIZE WxHxL INxINxIN	NOISE ATTENUATION IN DB (DIL) - OCTAVE BAND: 1	2	3	4	5	7	6	8	REMARKS
SA	1Ra	AHU-1 RETURN	7500	0.01	60x40x60	6	8	15	22	16	11	9	8	1, 2, 3, 4 Model RH60/9B
SA	1Rb	AHU-1 RETURN	7500	0.01	60x40x60	6	8	15	22	16	11	9	8	1, 2, 3, 4 Model RH60/9B
SA	2R	AHU-1 RETURN	5000	0.02	36x26x60	7	9	14	19	14	11	9	7	1, 2, 3, 4 Model RH60/WB
SA	1S	AHU-1 SUPPLY	15000	0.01	60 Dia. x 72	3	5	11	7	5	4	4	3	1, 2, 3, 4 Model CH72/60A
SA	2S	AHU-2 SUPPLY	5000	0.03	36x26x60	7	9	14	20	14	12	10	8	1, 2, 3, 4 Model RH60/WC
SA	3Ra	AHU-3 RETURN	6000	0.05	40x20x60	7	9	14	17	13	11	9	8	1, 2, 3, 4 Model RH60/XB
SA	3Rb	AHU-3 RETURN	6000	0.05	40x20x60	7	9	14	17	13	11	9	8	1, 2, 3, 4 Model RH60/XB
SA	3S	AHU-3 SUPPLY	12000	0.02	48 Dia. x 60	3	4	12	20	17	10	8	7	1, 2, 3, 4 Model CM60/48B
SA	4R	AHU-4 RETURN	8000	0.02	60x20x60	5	7	13	19	13	10	8	7	1, 2, 3, 4 Model RH60/9A
SA	4S	AHU-4 SUPPLY	8000	0.01	36 Dia. x 60	3	4	12	18	13	8	7	7	1, 2, 3, 4 Model CH60/36A
SA	5Ra	AHU-5 RETURN	7500	0.04	36x26x60	6	8	13	16	13	10	8	6	1, 2, 3, 4 Model RH60/WA
SA	5Rb	AHU-5 RETURN	4500	0.04	34x18x60	6	9	14	20	14	11	9	8	1, 2, 3, 4 Model RH60/VB
SA	5S	AHU-5 SUPPLY	12000	0.05	34x18x60	6	8	14	23	18	13	10	9	1, 2, 3, 4 Model RH60/7B
SA	6R	AHU-6 RETURN	3000	0.01	36x18x60	6	8	13	16	12	10	8	6	1, 2, 3, 4 Model RH60/WA
SA	6S	AHU-6 SUPPLY	9000	0.02	50x30x60	5	7	12	20	14	11	9	7	1, 2, 3, 4 Model RH60/7A
SA	7R	AHU-7 RETURN	11000	0.03	50x30x60	5	7	12	21	15	11	9	7	1, 2, 3, 4 Model RH60/7A
SA	7S	AHU-7 SUPPLY	12000	0.04	50x30x60	5	7	12	20	14	11	9	7	1, 2, 3, 4 Model RH60/7A
SA	8R	AHU-8 RETURN	3000	0.02	28x20x60	5	7	13	20	14	10	8	7	1, 2, 3, 4 Model RH60/8A
SA	8S	AHU-8 SUPPLY	9000	0.08	42x24x60	7	8	13	17	13	11	9	8	1, 2, 3, 4 Model RH60/XB
SA	9Ra	AHU-9 RETURN	7500	0.04	36x26x60	6	8	13	16	13	10	8	6	1, 2, 3, 4 Model RH60/WA
SA	9Rb	AHU-9 RETURN	4000	0.02	34x20x60	6	7	13	17	12	10	8	7	1, 2, 3, 4 Model RH60/VA
SA	9S	AHU-9 SUPPLY	12000	0.05	50x30x60	6	8	14	23	18	13	10	9	1, 2, 3, 4 Model RH60/7B
SA	1AEa	DHU-1A EXHAUST	4620	0.05	26x20x60	5	7	12	21	15	11	9	7	1, 2, 3, 4 Model RH60/7A
SA	1AEb	DHU-1A EXHAUST	2700	0.05	24x16x36	6	8	9	12	11	9	8	6	1, 2, 3, 4 Model RH60/ZB
SA	1AS	DHU-1A SUPPLY	8000	0.07	46x22x60	7	8	13	15	12	11	9	8	1, 2, 3, 4 Model RH60/YB
SA	1BE	DHU-1B EXHAUST	8000	0.03	32x32x60	6	7	13	18	13	10	8	7	1, 2, 3, 4 Model RH60/UA
SA	1BS	DHU-1B SUPPLY	8000	0.03	36x30x60	6	7	13	16	12	10	8	6	1, 2, 3, 4 Model RH60/WA
SA	2E	DHU-2 EXHAUST	5000	0.04	34x18x60	6	7	13	17	13	10	8	7	1, 2, 3, 4 Model RH60/VA
SA	2S	DHU-2 SUPPLY	5000	0.04	34x18x60	6	7	12	17	12	10	8	7	1, 2, 3, 4 Model RH60/VA
SA	3E	DHU-3 EXHAUST	13000	0.05	40x40x60	6	7	13	15	12	10	8	7	1, 2, 3, 4 Model RH60/XA
SA	3S	DHU-3 SUPPLY	13000	0.05	40x40x60	6	7	12	14	11	10	8	7	1, 2, 3, 4 Model RH60/XA
SA	4E	DHU-4 EXHAUST	10000	0.03	60x22x60	5	7	13	19	13	10	8	7	1, 2, 3, 4 Model RH60/9A
SA	4S	DHU-4 SUPPLY	10000	0.03	60x22x60	5	7	12	19	12	10	8	7	1, 2, 3, 4 Model RH60/9A
SA	4S	DHU-4 SUPPLY	10000	0.03	60x22x60	5	7	12	19	12	10	8	7	1, 2, 3, 4 Model RH60/9A
SA	5E	DHU-5 EXHAUST	10000	0.03	60x22x60	5	7	13	19	13	10	8	7	1, 2, 3, 4 Model RH60/XA
SA	5S	DHU-5 SUPPLY	10000	0.04	40x32x60	6	7	12	14	11	10	8	7	1, 2, 3, 4 Model RH60/XA
SA	6AE	DHU-6A EXHAUST	2000	0.02	24x18x60	7	7	13	12	10	9	7	7	1, 2, 3, 4 Model RH60/ZA
SA	6AS	DHU-6A SUPPLY	6000	0.04	40x20x60	6	7	12	14	11	10	8	7	1, 2, 3, 4 Model RH60/XA
SA	6BE	DHU-6B EXHAUST	8000	0.05	42x24x60	6	7	13	15	12	10	8	7	1, 2, 3, 4 Model RH60/XA
SA	6BS	DHU-6B SUPPLY	8000	0.04	40x26x60	6	7	12	14	11	10	8	7	1, 2, 3, 4 Model RH60/XA
SA	7E	DHU-7 EXHAUST	10000	0.03	60x20x60	5	7	13	19	13	10	8	7	1, 2, 3, 4 Model RH60/9A
SA	7S	DHU-7 SUPPLY	10000	0.02	60x24x60	5	7	12	19	12	10	8	7	1, 2, 3, 4 Model RH60/9A
SA	8Ea	DHU-8 EXHAUST	4500	0.03	34x20x60	5	7	9	14	12	9	7	6	1, 2, 3, 4 Model RH36/VA
SA	8Eb	DHU-8 EXHAUST	8750	0.07	44x22x60	7	7	13	13	11	10	8	6	1, 2, 3, 4 Model RH60/YA
SA	8S	DHU-8 SUPPLY	13000	0.03	60x28x60	5	7	12	19	12	10	8	7	1, 2, 3, 4 Model RH60/9A
SA	9Ea	DHU-9 EXHAUST	5300	0.01	28 Dia. x 60	3	5	14	24	18	10	10	10	1, 2, 3, 4 Model RH36/VA
SA	9Eb	DHU-9 EXHAUST	8750	0.03	44x22x60	5	6	8	12	11	9	7	5	1, 2, 3, 4 Model RH60/YA
SA	9Sa	DHU-9 SUPPLY	6500	0.02	30 Dia. x 60	3	5	13	23	18	10	10	10	1, 2, 3, 4 Model CH60/30A
SA	9Sb	DHU-9 SUPPLY	1500	0.01	20 Dia. x 60	4	7	19	36	33	20	15	16	1, 2, 3, 4 Model CH60/20A
SA	9Sc	DHU-9 SUPPLY	2000	0.03	22x16x36	6	7	9	13	11	10	8	7	1, 2, 3, 4 Model RH36/YB
SA	10E	DHU-10 EXHAUST	8000	0.05	40x24x60	6	7	13	15	12	10	8	7	1, 2, 3, 4 Model RH60/XA
SA	10S	DHU-10 SUPPLY	8000	0.05	40x24x60	6	7	12	14	11	10	8	7	1, 2, 3, 4 Model RH60/XA
SA	11E	DHU-11 EXHAUST	6000	0.05	44x18x60	7	7	13	13	11	10	8	6	1, 2, 3, 4 Model RH60/YA
SA	11S	DHU-11 SUPPLY	6000	0.05	44x18x60	6	7	12	13	11	10	8	7	1, 2, 3, 4 Model RH60/YA
SA	12E	DHU-12 EXHAUST	10000	0.03	60x22x60	5	7	12	19	12	10	8	7	1, 2, 3, 4 Model RH60/8A
SA	12S	DHU-12 SUPPLY	10000	0.04	56x22x60	5	7	12	20	13	10	8	7	1, 2, 3, 4 Model RH60/9A

1. SELECTION BASED ON PRICE.
2. PROVIDE WITH 1.5" FLANGE ATTACHED ON INLET AND OUTLET.
3. PROVIDE WITH MATIC FILLED SEAMS.
4. SHIP WITH PLASTIC COVERED ENDS.

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STATE OF MAINE CHRISTOPHER M. SHUMWAY No. 10820 LICENSED PROFESSIONAL ENGINEER

Sanford School Department and State of Maine Department of Education

SANFORD HIGH SCHOOL and TECHNICAL CENTER

SANFORD, ME 04073

NO.	DESCRIPTION	DATE

CONTENT:

MECHANICAL SCHEDULES

DRAWN BY: S. DANBY

PROJECT NO: 12-067-00

DATE: 02/11/2016

REVISED:

SCALE: NO SCALE

M5.01

Project Phase

BID DOCUMENTS

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FOR ADDITIONAL INFORMATION, REFER TO PROJECT MANUAL.

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MECHANICAL CABINET UNIT HEATER SCHEDULE - CUH

TAG	NUMBER	LOCATION	AIR SIDE CFM	AIR SIDE EAT (F)	AIR SIDE MBH	WATER SIDE GPM	WATER SIDE MAX PD (FT WC)	WATER SIDE EWT (F)	WATER SIDE LWT (F)	ELECTRICAL COIL DATA HEAT COIL KW	AMPS	VOLT	PH	MOTOR DATA WATTS	VOLT	PH	REMARKS
CUH	1	STAIR B050	845	60	53.2	3.6	1.5	160	130	N/A	N/A	N/A	N/A	1@1/10;1@1/15	115	1	1, 2, 3, 4, 5, MODEL RW-1120-08
CUH	2	SCIENCE & TECH C120	430	60	29.2	2.4	1.0	160	130	N/A	N/A	N/A	N/A	1/10	115	1	1, 2, 3, 4, 5, MODEL RC-1200-04
CUH	3	STAIR C122	630	60	49.7	3.6	1.5	160	130	N/A	N/A	N/A	N/A	1/10	115	1	1, 2, 3, 4, 5, MODEL RW-1120-06
CUH	4	CORRIDOR C111	430	60	29.2	2.4	1.0	160	130	N/A	N/A	N/A	N/A	1/10	115	1	1, 2, 3, 4, 5, MODEL RC-1200-04
CUH	5	STAIR 0137	845	60	53.2	3.6	1.5	160	130	N/A	N/A	N/A	N/A	1@1/10;1@1/15	115	1	1, 2, 3, 4, 5, MODEL RW-1120-08
CUH	6	STAIR D148	335	60	22.5	1.8	1.0	160	130	N/A	N/A	N/A	N/A	1/15	115	1	1, 2, 3, 4, 5, MODEL RW-1120-03
CUH	7	ENTRY VESTIBULE D140A	845	60	53.2	3.6	1.5	160	130	N/A	N/A	N/A	N/A	1@1/10;1@1/15	115	1	1, 2, 3, 4, 5, MODEL RC-1120-08
CUH	8	STAIR D118	630	60	49.7	3.6	1.5	160	130	N/A	N/A	N/A	N/A	1/10	115	1	1, 2, 3, 4, 5, MODEL RC-1120-06
CUH	9	STAIR E139	630	60	49.7	3.6	1.5	160	130	N/A	N/A	N/A	N/A	1/10	115	1	1, 2, 3, 4, 5, MODEL RW-1120-06
CUH	10	SECURED ENTRY E153	630	60	49.7	3.6	1.5	160	130	N/A	N/A	N/A	N/A	1/10	115	1	1, 2, 3, 4, 5, MODEL RW-1120-06
CUH	11	SECURE ENTRY A148	335	60	22.5	1.8	1.0	160	130	N/A	N/A	N/A	N/A	1/10	115	1	1, 2, 3, 4, 5, MODEL RC-1120-03
CUH	12	STAIR A175	630	60	49.7	3.6	1.5	160	130	N/A	N/A	N/A	N/A	1/10	115	1	1, 2, 3, 4, 5, MODEL RW-1120-06
CUH	13	CIRCULATION F1119	430	60	29.2	2.4	1.0	160	130	N/A	N/A	N/A	N/A	1/10	115	1	1, 2, 3, 4, 5, MODEL RC-1200-04
CUH	14	VESTIBULE F119A	430	60	29.2	2.4	1.0	160	130	N/A	N/A	N/A	N/A	1/10	115	1	1, 2, 3, 4, 5, MODEL RC-1200-04
CUH	15	VESTIBULE F119A	430	60	29.2	2.4	1.0	160	130	N/A	N/A	N/A	N/A	1/10	115	1	1, 2, 3, 4, 5, MODEL RC-1200-04
CUH	16	CIRCULATION F1119	430	60	29.2	2.4	1.0	160	130	N/A	N/A	N/A	N/A	1/10	115	1	1, 2, 3, 4, 5, MODEL RC-1200-04
CUH	17	VESTIBULE F101A	430	60	29.2	2.4	1.0	160	130	N/A	N/A	N/A	N/A	1/10	115	1	1, 2, 3, 4, 5, MODEL RC-1200-04
CUH	18	VESTIBULE F101A	430	60	29.2	2.4	1.0	160	130	N/A	N/A	N/A	N/A	1/10	115	1	1, 2, 3, 4, 5, MODEL RC-1200-04
CUH	19	STAIR B150	630	60	49.7	3.6	1.5	160	130	N/A	N/A	N/A	N/A	1/10	115	1	1, 2, 3, 4, 5, MODEL RW-1120-06
CUH	20	ENTRY A171	845	60	53.2	3.6	1.5	160	130	N/A	N/A	N/A	N/A	1@1/10;1@1/15	115	1	1, 2, 3, 4, 5, MODEL RC-1120-08
CUH	21	ENTRY A171	845	60	53.2	3.6	1.5	160	130	N/A	N/A	N/A	N/A	1@1/10;1@1/15	115	1	1, 2, 3, 4, 5, MODEL RC-1120-08
CUH	22	CIRCULATION A185A	430	60	29.2	2.4	1.0	160	130	N/A	N/A	N/A	N/A	1/10	115	1	1, 2, 3, 4, 5, MODEL RW-1120-04

1. SELECTION BASED ON VULCAN.
2. PROVIDE MANUAL RESET TOGGLE SWITCH STARTER W/ THERMAL OVERLOAD.
3. PROVIDE LIMITED ACCESS FASTENERS.
4. PROVIDE MANUFACTURER'S WALL SEAL FOR RECESSED MOUNTING.
5. PROVIDE HIGH CAPACITY 2-ROW COIL.

MECHANICAL PROPELLER UNIT HEATER SCHEDULE - PUH

TAG	NUMBER	LOCATION	SERVES	AIR SIDE TOTAL (CFM)	AIR SIDE EAT (F)	AIR SIDE MHT HGT (MAX)	AIR SIDE THROW (MAX)	WATER SIDE MBH	WATER SIDE GPM	WATER SIDE PD (FT WC)	WATER SIDE EWT (F)	WATER SIDE LWT (F)	MOTOR / ELECTRICAL DATA HP	VOLT	PHASE	REMARKS
PUH	1	BOILER ROOM	BOILER ROOM	900	60	10'	30'	31.2	2.6	1.0	160	130	1/20	115	1	1, 2, 3, MODEL HV-60
PUH	2	BOILER ROOM	BOILER ROOM	900	60	10'	30'	31.2	2.6	1.0	160	130	1/20	115	1	1, 2, 3, MODEL HV-60
PUH	3	MAINTENANCE	MAINTENANCE	900	60	10'	30'	31.2	2.6	1.0	160	130	1/20	115	1	1, 2, 3, MODEL HV-60
PUH	4	MAIN ELECTRICAL	MAIN ELECTRICAL	900	60	10'	30'	31.2	2.6	1.0	160	130	1/20	115	1	1, 2, 3, MODEL HV-60
PUH	5	AUTOMOTIVE COLLISION	AUTOMOTIVE COLLISION	2200	60	15'	55'	74.4	6.2	1.0	160	130	1/3	115	1	1, 2, 3, MODEL HV-144
PUH	6	AUTOMOTIVE COLLISION	AUTOMOTIVE COLLISION	2200	60	15'	55'	74.4	6.2	1.0	160	130	1/3	115	1	1, 2, 3, MODEL HV-144
PUH	7	AUTOMOTIVE COLLISION	AUTOMOTIVE COLLISION	2200	60	15'	55'	74.4	6.2	1.0	160	130	1/3	115	1	1, 2, 3, MODEL HV-144
PUH	8	WELDING FABRICATION	WELDING FABRICATION	1900	60	12'	40'	56.0	5.2	1.0	160	130	1/3	115	1	1, 2, 3, MODEL HV-120
PUH	9	WELDING FABRICATION	WELDING FABRICATION	1900	60	12'	40'	56.0	5.2	1.0	160	130	1/3	115	1	1, 2, 3, MODEL HV-120
PUH	10	WELDING FABRICATION	WELDING FABRICATION	1900	60	12'	40'	56.0	5.2	1.0	160	130	1/3	115	1	1, 2, 3, MODEL HV-120
PUH	11	PRECISION MAUNFACTURING	PRECISION MANUFACTURING	1900	60	12'	40'	56.0	5.2	1.0	160	130	1/3	115	1	1, 2, 3, MODEL HV-120
PUH	12	PRECISION MAUNFACTURING	PRECISION MANUFACTURING	1900	60	12'	40'	56.0	5.2	1.0	160	130	1/3	115	1	1, 2, 3, MODEL HV-120
PUH	13	PRECISION MAUNFACTURING	PRECISION MANUFACTURING	1900	60	12'	40'	56.0	5.2	1.0	160	130	1/3	115	1	1, 2, 3, MODEL HV-120
PUH	14	AUTO TECHNOLOGY	AUTO TECHNOLOGY	1900	60	12'	40'	56.0	5.2	1.0	160	130	1/3	115	1	1, 2, 3, MODEL HV-120
PUH	15	AUTO TECHNOLOGY	AUTO TECHNOLOGY	1900	60	12'	40'	56.0	5.2	1.0	160	130	1/3	115	1	1, 2, 3, MODEL HV-120
PUH	16	AUTO TECHNOLOGY	AUTO TECHNOLOGY	1900	60	12'	40'	56.0	5.2	1.0	160	130	1/3	115	1	1, 2, 3, MODEL HV-120
PUH	17	AUTO TECHNOLOGY	AUTO TECHNOLOGY	1900	60	12'	40'	56.0	5.2	1.0	160	130	1/3	115	1	1, 2, 3, MODEL HV-120
PUH	18	BUILDING TRADES	BUILDING TRADES	2000	60	13'	54'	68.5	5.7	1.0	160	130	1/3	115	1	1, 2, 3, MODEL HV-132
PUH	19	BUILDING TRADES	BUILDING TRADES	2000	60	13'	54'	68.5	5.7	1.0	160	130	1/3	115	1	1, 2, 3, MODEL HV-132
PUH	20	BUILDING TRADES	BUILDING TRADES	2000	60	13'	54'	68.5	5.7	1.0	160	130	1/3	115	1	1, 2, 3, MODEL HV-132
PUH	21	CTE EXPLORATION STUDIO	CTE EXPOLRATION STUDIO	2000	60	13'	54'	68.5	5.7	1.0	160	130	1/3	115	1	1, 2, 3, MODEL HV-132
PUH	22	CTE EXPLORATION STUDIO	CTE EXPOLRATION STUDIO	2000	60	13'	54'	68.5	5.7	1.0	160	130	1/3	115	1	1, 2, 3, MODEL HV-132
PUH	23	RESIDENTIAL WIRING	RESIDENTIAL WIRING	750	60	9'	30'	22.4	2.1	1.0	160	130	1/20	115	1	1, 2, 3, MODEL HV-48
PUH	24	RESIDENTIAL WIRING	RESIDENTIAL WIRING	750	60	9'	30'	22.4	2.1	1.0	160	130	1/20	115	1	1, 2, 3, MODEL HV-48
PUH	25	INCUBATOR C101	INCUBATOR C101	1900	60	12'	40'	56.0	5.2	1.0	160	130	1/3	115	1	1, 2, 3, MODEL HV-120
PUH	26	INCUBATOR C101	INCUBATOR C101	1900	60	12'	40'	56.0	5.2	1.0	160	130	1/3	115	1	1, 2, 3, MODEL HV-120
PUH	27	HORTICULTURE D150	HORTICULTURE D150	1900	60	12'	40'	56.0	5.2	1.0	160	130	1/3	115	1	1, 2, 3, MODEL HV-120
PUH	28	HORTICULTURE D150	HORTICULTURE D150	1900	60	12'	40'	56.0	5.2	1.0	160	130	1/3	115	1	1, 2, 3, MODEL HV-120
PUH	29	FIREFIGHTING SCIENCE	FIREFIGHTING SCIENCE	2200	60	13'	55'	74.4	6.2	1.0	160	130	1/3	115	1	1, 2, 3, MODEL HV-144
PUH	30	FIREFIGHTING SCIENCE	FIREFIGHTING SCIENCE	2200	60	13'	55'	74.4	6.2	1.0	160	130	1/3	115	1	1, 2, 3, MODEL HV-144
PUH	31	FIREFIGHTING SCIENCE	FIREFIGHTING SCIENCE	2200	60	13'	55'	74.4	6.2	1.0	160	130	1/3	115	1	1, 2, 3, MODEL HV-144
PUH	32	FIRE-DRILL AREA E242	FIRE-DRILL AREA E242	900	60	13'	30'	31.2	2.6	1.0	160	130	1/20	115	1	1, 2, 3, MODEL HV-60
PUH	33	PROP+GEAR STORAGE E243	PROP+GEAR STORAGE E243	750	60	9'	30'	22.4	2.1	1.0	160	130	1/20	115	1	1, 2, 3, MODEL HV-48
PUH	34	TRACTOR INSTRUCTION	TRACTOR INSTRUCTION	750	60	9'	30'	22.4	2.1	1.0	160	130	1/20	115	1	1, 2, 3, MODEL HV-48
PUH	35	PRE-ENG ROBOTICS C105	PRE-ENG ROBOTICS C105	750	60	9'	30'	22.4	2.1	1.0	160	130	1/20	115	1	1, 2, 3, MODEL HV-48
PUH	36	PRE-ENG ROBOTICS C105	PRE-ENG ROBOTICS C105	750	60	9'	30'	22.4	2.1	1.0	160	130	1/20	115	1	1, 2, 3, MODEL HV-48
PUH	37	STORAGE F102A	STORAGE F102A	750	60	9'	30'	22.4	2.1	1.0	160	130	1/20	115	1	1, 2, 3, MODEL HV-48

1. SELECTION BASED ON VULCAN.
2. PROVIDE MANUAL RESET TOGGLE SWITCH STARTER W/ THERMAL OVERLOAD

DATA

TAG	SERVES	COOLING CAPACITY (MBH) INDOOR / OUTDOOR	SEER INDOOR / OUTDOOR	INDOOR UNIT ELECTRICAL DATA MCA	INDOOR UNIT ELECTRICAL DATA M0CP	OUTDOOR UNIT ELECTRICAL DATA MCA	OUTDOOR UNIT ELECTRICAL DATA MOCP	POWER SUPPLY MFS	POWER SUPPLY VOLT	POWER SUPPLY PH	REMARKS
AC-18a & AC18b/ACC-18	D158 & D158A	9.6 / 18.0	18.0	N/A	N/A	16.0	20.0		208/230	1	1, 3, MULTIZONE SERIES HEAT PUMP MODEL 4TXM6518A1020BA
AC/ACC-1	DATA D144	18.0	18.0	N/A	N/A	16.0	20.0		208/230	1	1, 2, 3, MODEL 4MXW8518A10N0BA
AC/ACC-2	DATA C114A	18.0	18.0	N/A	N/A	16.0	20.0		208/230	1	1, 2, 3, MODEL 4MXW8518A10N0BA
AC/ACC-3	CONTROL ROOM B103	18.0	18.0	N/A	N/A	16.0	20.0		208/230	1	1, 2, 3, MODEL 4MXW8518A10N0BA
AC/ACC-4	DATA B132	18.0	18.0	N/A	N/A	16.0	20.0		208/230	1	1, 2, 3, MODEL 4MXW8518A10N0BA
AC/ACC-5	SERVER B107A	18.0	18.0	N/A	N/A	16.0	20.0		208/230	1	1, 2, 3, MODEL 4MXW8518A10N0BA
AC/ACC-6	MIDI LAB B146	33.6	16.0	N/A	N/A	23.0	35.0		208/230	1	1, 2, 3, MODEL 4MXW8536A10N0BA
AC/ACC-7	IT SERVER / DATA A184A	33.6	16.0	N/A	N/A	23.0	35.0		208/230	1	1, 2, 3, MODEL 4MXW8536A10N0BA
AC/ACC-8	IT SERVER / DATA A184A	18.0	18.0	N/A	N/A	16.0	20.0		208/230	1	1, 2, 3, MODEL 4MXW8518A10N0BA
AC/ACC-9	DATA E127A	18.0	18.0	N/A	N/A	16.0	20.0		208/230	1	1, 2, 3, MODEL 4MXW8518A10N0BA
AC/ACC-10	EMR A165	18.0	18.0	N/A	N/A	16.0	20.0		208/230	1	1, 2, 3, MODEL 4MXW8518A10N0BA
AC/ACC-11	SERVER INSTRUCTION D212A	18.0	18.0	N/A	N/A	16.0	20.0		208/230	1	1, 2, 3, MODEL 4MXW8518A10N0BA
AC/ACC-12	DATA D210A	18.0	18.0	N/A	N/A	16.0	20.0		208/230	1	1, 2, 3, MODEL 4MXW8518A10N0BA
AC/ACC-13	EMR A214A	18.0	18.0	N/A	N/A	16.0	20.0		208/230	1	1, 2, 3, MODEL 4MXW8518A10N0BA
AC/ACC-14	DATA E227A	18.0	18.0	N/A	N/A	16.0	20.0		208/230	1	1, 2, 3, MODEL 4MXW8518A10N0BA
AC/ACC-15	DATA C223	18.0	18.0	N/A	N/A	16.0	20.0		208/230	1	1, 2, 3, MODEL 4MXW8518A10N0BA
AC/ACC-16	CONTROL ROOM A282	18.0	18.0	N/A	N/A	16.0	20.0		208/230	1	1, 2, 3, MODEL 4MXW8518A10N0BA
AC/ACC-17	ELECTRIC ROOM C114B	18.0	18.0	N/A	N/A	16.0	20.0		208/230	1	1, 2, 3, MODEL 4MXW8518A10N0BA

1, SELECTION BASED ON TRANE.
2. PROVIDE INTEGRAL "MINI ORANGE" CONDENSATE REMOVAL PUMP BY ASPEN PUMP. 230V AC 60HZ MOTOR TO BE POWERED VIA THE INDOOR EVAPORATOR UNIT POWER SUPPLY.
3. PROVIDE DRAIN PAN OVERFLOW DETECTION THAT IS INTERLOCKED TO SHUT DOWN INDOOR AC UNIT UPON SENSING A FULL DRAIN PAN.

MECHANICAL BLOWER COIL UNIT SCHEDULE - BCU

TAG	NUMBER	LOCATION	SERVES	TOTAL UNIT AIRFLOW (CFM)	ESP IN WG	COIL DATA / HEATING DATA EAT (F)	EWT (F)	LWT (F)	MBH	GPM	MAX PD (FT WC)	MOTOR DATA HP (WATTS)	VOLT	PHASE	REMARKS
BCU	A100	MAIN COMMON A120	VESTIBULE A100	1200	.625	50	160	120	55.7	2.8		3/4	460	3	1, MODEL LFC-30-FC-7

1. SELECTION BASED ON GREENHECK.

VRF OUTDOOR UNIT SCHEDULE - ACC

TAG	NUMBER	SERVES	LOCATION	AMBIENT AIR TEMP (F)	REFRIGERANT TYPE	NOMINAL CAPACITY (Tons)	NOMINAL HEATING CAPC. (MBH)	LECTRICAL DATA MCA	MOP	VOLT	PH	REMARKS
ACC1	1	AC1-1 THRU AC1-7	HIGH ROOF	95	R-410A	9.5	129.0	21.7	30	460	3	1, MODEL 4TVH0120B400NB
ACC2	1	AC2-1 THRU AC2-5	HIGH ROOF	95	R-410A	9.5	129.0	21.7	30	460	3	1, MODEL 4TVH0120B400NB
ACC3	1	AC3-1 THRU AC3-5	HIGH ROOF	95	R-410A	6.0	81.0	16.4	20	460	3	1, MODEL 4TVH0072B400NB

1. SELECTION BASED ON TRANE.

VRV INDOOR FAN COIL UNIT SCHEDULE - AC

TAG	MUNBER	LOCATION	INLET SIZE	AIR FLOW (CFM)	APD (W.G.)	NOISE CRITERIA (NC)	PIPING CONFIG.	COOLING DATA INDOOR AIR TEMP DB/WB (F)	COOLING EAT (F)	COOLING TOTAL CAPACITY (MBH)	HEATING DATA INDOOR AIR TEMP DB / WB (F)	HEATING EAT (F)	HEATING TOTAL CAPACITY (MBH)	ELECTRICAL DATA VOLT	PHASE	RATED AMPS	MCOP	REMARKS
AC1	1	D132A		494-618				80/67	70	24.0			27.0	208/230	1	0.30		1, MODEL 4TVB0024B100NB
AC1	2	D132		336-459				80/67	70	18.0			20.0	208/230	1	0.27		1, MODEL 4TVB0018B100NB
AC1	3	D132		336-459				80/67	70	18.0			20.0	208/230	1	0.27		1, MODEL 4TVB0018B100NB
AC1	4	D130		283-371				80/67	70	12.0			13.5	208/230	1	.019		1, MODEL 4TVB0012B100NB
AC1	5	D130		283-371				80/67	70	12.0			13.5	208/230	1	.019		1, MODEL 4TVB0012B100NB
AC1	6	D128		336-459				80/67	70	18.0			20.0	208/230	1	0.27		1, MODEL 4TVB0018B100NB
AC1	7	D128		336-459				80/67	70	18.0			20.0	208/230	1	0.27		1, MODEL 4TVB0018B100NB
AC2	1	D249		494-618				80/67	70	24.0			27.0	208/230	1	0.30		1, MODEL 4TVB0024B100NB
AC2	2	D245		336-459				80/67	70	18.0			20.0	208/230	1	0.27		1, MODEL 4TVB0018B100NB
AC2	3	D245		336-459				80/67	70	18.0			20.0	208/230	1	0.27		1, MODEL 4TVB0018B100NB
AC2	4	D243		336-459				80/67	70	18.0			20.0	208/230	1	0.27		1, MODEL 4TVB0018B100NB
AC2	5	D243		336-459				80/67	70	18.0			20.0	208/230	1	0.27		1, MODEL 4TVB0018B100NB
AC3	1	C202		494-618				80/67	70	24.0			27.0	208/230	1	0.30		1, MODEL 4TVB0024B100NB
AC3	2	C202		494-618				80/67	70	24.0			27.0	208/230	1	0.30		1, MODEL 4TVB0024B100NB
AC3	3	C204		283-371				80/67	70	12.0			13.5	208/230	1	.019		1, MODEL 4TVB0012B100NB

1. SELECTION BASED ON TRANE.

MECHANICAL VEHICLE EXHAUST SCHEDULE - VE

TAG	NUMBER	SERVES	LOCATION	CFM	HOSE DIA.	HOSE LENGTH	RETRACTION TYPE	ELECTRICAL DATA HP	VOLT	PH	REMARKS
VE	1	AUTO TECHNOLOGY	AUTO TECHNOLOGY	350	4"	24'	SIMPLE DROP	1/2	115	1	1, 2, MODEL 11000-FMB 5000 HOSE SERIES
VE	2	AUTO TECHNOLOGY	AUTO TECHNOLOGY	350	4"	24'	SIMPLE DROP	1/2	115	1	1, 2, MODEL 11000-FMB 5000 HOSE SERIES
VE	3	AUTO TECHNOLOGY	AUTO TECHNOLOGY	350	4"	24'	SIMPLE DROP	1/2	115	1	1, 2, MODEL 11000-FMB 5000 HOSE SERIES
VE	4	AUTO TECHNOLOGY	AUTO TECHNOLOGY	350	4"	24'	SIMPLE DROP	1/2	115	1	1, 2, MODEL 11000-FMB 5000 HOSE SERIES
VE	5	EMS TRAINING E140A	EMS TRAINING E140A	600	5"	24'	SIMPLE DROP	1.0	115	1	1, 3, MODEL 11000-FMB 4000 HOSE SERIES
VE	6	EMS TRAINING E140A	EMS TRAINING E140A	600	5"	24'	SIMPLE DROP	1.0	115	1	1, 3, MODEL 11000-FMB 4000 HOSE SERIES

1. SELECTION BASED ON MONOXIVENT.

MECHANICAL DUST COLLECTOR SCHEDULE - DC

TAG	NUMBER	SERVES	LOCATION	CFM	SP IN WC	FAN TYPE	DRIVE TYPE	ELECTRICAL DATA HP	VOLT	PH	REMARKS
DC	C138	WELDING FABRICATION	OUTDOORS	14,000	16"	CENT.	BELT	50	460	3	1, 3, 5, 8, 9, 10, 11, 12, 13 MODEL DCCH-24
DC	C117	CTE EXPLORATION STUDIO	OUTDOORS	4500	14"	CENT.	DIRECT	20	460	3	1, 4, 5, 8, 9, 10, 11, 12, 13 MODEL SCST-64-660
DC	134b	PRECISION MANUFACTURING - CYLINDRICAL GRINDER & EDM MACHINE	INDOORS	1200	-	CENT.	DIRECT	1.5	460	3	2, 16, 17, 18 MODEL 1200VOM-PG-5
DC	C127	BUILDING TRADES	OUTDOORS	8800	16"	CENT.	BELT	40	460	3	1, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13 MODEL DCCH-100W10
DC	134a	PRECISION MANUFACTURING	OUTDOORS	3800	7"	CENT.	DIRECT	10	460	3	2, 9, 10, 11, 12, 13, 14, 15 MODEL DC-8

1. SELECTION BASED ON AIREX.
2. SELECTION BASED ON AIRFLOW SYSTEMS.
3. WITH CARTRIDGE FILTERS, QUICK CAM CLAMPING SYSTEM, AUTOMATIC PULSE CLEANING SYSTEM, SURGE AIR TANK AND PHOTOHELIC GAUGE.
4. WITH BAG FILTERS AND AUTOMATIC SHAKER CLEANING SYSTEM.
5. WITH FRONT ACCESS DOORS, HOPPER, INLET TARGET PLATE, STAND, 50 GALLON DRUM KIT, MAGNEHELIC GAUGE AND FINISH PAINT.
6. WITH SERVICE PLATFORM, LADDER, CAGE AND MATCHING FINISH PAINT.
7. WITH ROTARY AIRLOCK FOR COLLECTOR DISCHARGE AND MATCHING FINISH PAINT.
8. WITH FIRE KIT INCLUDING TEMPERATURE PROBE AND PIPE (PROVISIONS ONLY FOR FUTURE).
9. WITH FRONT ACCESS DOORS, EXPLOSION RELIEF DOORS PER NFPA 68 AND MATCHING FINISH PAINT.
10. WITH SILENCER, BLOWBACK DAMPER, HIGH SPEED ABORT DAMPER AND MATCHING FINISH PAINT.
11. WITH HANSENTEK MODEL AN104 SPARK DETECTION AND SUPPRESSION SYSTEM.
12. FAN TO INCLUDE TEFC MOTOR WITH WEATHERPROOF COVER, BELTS, OSHA GUARD, BASE SUPPORT AND MATCHING FINISH PAINT.
13. WITH NEMA 12 CONTROL PANEL FOR REMOTE MOUNTING INDOORS. INCLUDING SINGLE POINT POWER CONNECTION WITH ROTARY DISCONNECT SWITCH, MAGNETIC MOTOR STARTERS WITH SOFT START, THERMAL OVERLOADS, FUSES, STEPDOWN TRANSFORMER, ILLUMINATED ON/OFF BUTTONS, 3-POSITION SELECTOR SWITCH, AUXILIARY RELAYS, TIMERS AND CONTROLLER FOR PROGRAMMABLE CLEANING SEQUENCE.
14. WITH CARTRIDGE FILTERS, QUICK CAM CLAMPING SYSTEM AND AUTOMATIC PULSE CLEANING SYSTEM.
15. WITH SHORT HOPPER, STAND, CONNECTING HOSE WITH LID AND 20 GALLON PAIL, MAGNEHELIC GAUGE AND FINISH PAINT.
16. WITH 2-INCH IMPINGEMENT FILTER, 2-INCH ALUMINUM MESH FILTER, 95% MAIN FILTER AND MAGNEHELIC GAUGE.
17. WITH WALL MOUNT/ROD HANGING BRACKETS, 3-INCH DEEP WELDED OIL SUMP, SIDE ACCESS DOOR, SILENCER AND FINISH PAINT.
18. WITH SINGLE POINT POWER CONNECTION, DISCONNECT SWITCH, MOTOR STARTER AND ON/OFF SWITCH.

MECHANICAL AIR FILTER FAN SCHEDULE - AFF

TAG	NUMBER	SERVES	LOCATION	CFM	DRIVE TYPE	FILTER DATA PRE FILTERS	FILTER DATA MAIN FILTERS	ELECTRICAL DATA HP	VOLT	PH	REMARKS
AFF	C117a	CTE EXPLORATION STUDIO	ROOM C117	2500	DIRECT	2" POLY	98% BAG	3/4	115	1	1, 2, 3, MODEL F70-R
AFF	C117b	CTE EXPLORATION STUDIO	ROOM C117	2500	DIRECT	2" POLY	98% BAG	3/4	115	1	1, 2, 3, MODEL F70-R
AFF	C127a	BUILDING TRADES	ROOM C127	2500	DIRECT	2" POLY	98% BAG	3/4	115	1	1, 2, 3, MODEL F70-R
AFF	C127b	BUILDING TRADES	ROOM C127	2500	DIRECT	2" POLY	98% BAG	3/4	115	1	1, 2, 3, MODEL F70-R
AFF	C127c	BUILDING TRADES	ROOM C127	2500	DIRECT	2" POLY	98% BAG	3/4	115	1	1, 2, 3, MODEL F70-R
AFF	C127d	BUILDING TRADES	ROOM C127	2500	DIRECT	2" POLY	98% BAG	3/4	115	1	1, 2, 3, MODEL F70-R

1. SELECTION BASED ON AIRFLOW SYSTEMS.
2. WITH DIRTY FILTER PRESSURE GUAGE KIT AND SILENCER.
3. WITH 2 SPEED MOTOR.

MECHANICAL FAN SCHEDULE - EF, KEF, DEF, CEF, SF

TAG	NUMBER	SERVES	LOCATION	CFM	ESP IN WC	FAN TYPE	DRIVE TYPE	FAN RPM	ELECTRICAL DATA HP	VOLT	PH	REMARKS
CEF	C110	SCIENCE LAB-CHEM C110 FUMEHOOD	HIGH ROOF	900	1.0	CENT. UTILITY	DIRECT	1716	3/4	115	1	1, MODEL SWD-10-VG
CEF	C114	SCIENCE LAB-CHEM C114 FUMEHOOD	HIGH ROOF	900	1.0	CENT. UTILITY	DIRECT	1716	3/4	115	1	1, MODEL SWD-10-VG
DEF	1	DISH WASH C102A KITCHEN DISHWASHER EXHAUST	HIGH ROOF	1000	0.75	ROOF CUBE UPBLAST	BELT	1322	1/2	115	1	1, MODEL CUBE-121-5
DEF	2	WARE WASH D123F CULINARY DISHWASHER EXHAUST	HIGH ROOF	1000	0.75	ROOF CUBE UPBLAST	BELT	1322	1/2	115	1	1, MODEL CUBE-121-5
EF	A108	KITCHENETTE A106_TOILET A104	HIGH ROOF	250	0.375	ROOF CENT.	DIRECT	1692	1/6	115	1	1, MODEL G-070-VG
EF	A131	DINING A131	LOW ROOF	300	0.375	ROOF CENT.	DIRECT	1721	1/10	115	1	1, MODEL G-075-VG
EF	A174	ELECTRIC ROOM A174	HIGH ROOF	350	0.375	ROOF CENT.	DIRECT	1538	1/6	115	1	1, MODEL G-085-VG
EF	A193	ELECTRIC ROOM A193	HIGH ROOF	500	0.625	ROOF CENT.	DIRECT	1669	1/6	115	1	1, MODEL G-095-VG
EF	A237	D105C, D107A, A237B, A237C TOILET ROOM	HIGH ROOF	375	0.75	ROOF CENT.	DIRECT	1695	1/6	115	1	1, MODEL G-095-VG
EF	A252	CAN WASH A252, STORAGE A254	HIGH ROOF	300	.625	ROOF CENT.	DIRECT	1692	1/10	115	1	1, MODEL SQ-85-VG
EF	B052	MAINTENANCE ROOM B052	MAINTENANCE ROOM B052	400	.25	INLINE CENT.	DIRECT	1566	1/6	115	1	1, MODEL SQ-85-VG
EF	B054	ELECTRICAL B054	ROOM B054	1000	0.5	INLINE CENT.	DIRECT	1649	1/4	115	1	1, MODEL SQ-100-VG
EF	B054B	EMERGENCY ELECTRICAL B054B	ROOM B054B	200	0.25	CABINET	DIRECT	900	48 WATTS	115	1	1, MODEL CSP-A200
EF	B149	KILN & STORAGE B149	HIGH ROOF	1200	0.625	ROOF CENT.	DIRECT	866	3/4	115	1	1, MODEL G-183-VG
EF	B215C	BATH B215C_TOILET B213	HIGH ROOF	250	.625	ROOF CENT.	DIRECT	1725	1/10	115	1	1, MODEL G-080-VG
EF	B228A	ELECTRIC ROOM B228A	HIGH ROOF	275	.25	ROOF CENT.	DIRECT	1656	1/6	115	1	1, MODEL G-070-VG
EF	C104C	TOILET ROOM C104B, C104C, CUSTODIAL C104D	HIGH ROOF	300	0.5	ROOF CENT.	DIRECT	1707	1/6	115	1	1, MODEL G-080-VG
EF	C121	SHARED FINISH ROOM HOOD	LOW ROOF	750/300	.75	CENT. UTILITY	DIRECT	2082	1/2	115	1	1, MODEL SWD-8-VG
EF	C134	PRECISION MANUFACTURING - FURNACE HOOD	LOW ROOF	800	.5	ROOF CENT.	DIRECT	1464	1/4	115	1	1, MODEL G-099-VG
EF	C202A	PRINT AREA RM C202A	CAD LAB STORAGE RM C202B	500	6.23	CENT.	DIRECT	3500	1.5	208	3	1, MODEL COMPACT GI 116
EF	C223A	ELECTRIC ROOM C223A	HIGH ROOF	275	0.25	ROOF CENT.	DIRECT	1656	1/6	115	1	1, MODEL G-070-VG
EF	D129	LOCKER D127, LOCKER D129	HIGH ROOF	450	0.75	ROOF CENT.	DIRECT	1522	1/4	115	1	1, MODEL G-098-VG
EF	D132	COSMETOLOGY D132	HIGH ROOF	225	0.5	ROOF CENT.	DIRECT	1497	1/4	115	1	1, MODEL G-097-VG
EF	D146	ELECTRIC ROOM D146	HIGH ROOF	350	0.5	ROOF CENT.	DIRECT	1677	1/6	115	1	1, MODEL G-085-VG
EF	D150B	TRACTOR INSTRUCTION D150B	ROOM D150B	200	0.25	INLINE CENT.	DIRECT	1593	1/6	115	1	1, MODEL SQ-70-VG
EF	D220	VENDING MACHINES D220	HIGH ROOF	300	0.375	ROOF CENT.	DIRECT	1721	1/10	115	1	1, MODEL G-075-VG
EF	D247	ELECTRIC ROOM D247	HIGH ROOF	275	0.25	ROOF CENT.	DIRECT	1656	1/6	115	1	1, MODEL G-070-VG
EF	E227B	ELECTRIC ROOM E227B	HIGH ROOF	625	0.625	ROOF CENT.	DIRECT	1684	1/4	115	1	1, MODEL G-098-VG
EF	E242	FIRE-DRILL AREA E242	HIGH ROOF	3000	.75	ROOF CENT.	DIRECT	1080	2	208	1	1, MODEL CUE-180-VG
KEF	1	MAIN KITCHEN C102 EXHAUST HOOD	HIGH ROOF	7155	1.5	ROOF CUBE UPBLAST	BELT	917	5	460	3	1, MODEL CUBE-300HP-50
KEF	2	BAKE LAB D123 EXHAUST HOOD	LOW ROOF	3375	1.0	ROOF CUBE UPBLAST	BELT	1214	2	460	3	1, MODEL CUBE-180HP-20
KEF	3	CULINARY ARTS D123A EXHAUST HOOD	HIGH ROOF	4162	1.5	ROOF CUBE UPBLAST	BELT	1418	3	460	3	1, MODEL CUBE-200HP-30
KEF	4	FACS LAB D112 EXHAUST HOOD	HIGH ROOF	2760	1.25	ROOF CUBE UPBLAST	DIRECT	1426	2	208	1	1, MODEL CUE-161-VG
KEF	5	FACS LAB D112 EXHAUST HOOD	HIGH ROOF	1258	1.0	ROOF CUBE UPBLAST	DIRECT	1594	1/2	115	1	1, MODEL CUE-121-VG
KEF	6	FACS LAB D112 EXHAUST HOOD	HIGH ROOF	1990	1.0	ROOF CUBE UPBLAST	DIRECT	1549	1	115	1	1, MODEL CUE-141-VG
KEF	7	ECE KITCHEN A143A EXHAUST HOOD	HIGH ROOF	968	1.0	ROOF CUBE UPBLAST	DIRECT	2500	1/2	115	1	1, MODEL CUE-101HP-VG
KEF	8	LS APARTMENT B215 EXHAUST HOOD	HIGH ROOF	550	0.75	ROOF CUBE UPBLAST	DIRECT	1468	1/4	115	1	1, MODEL CUE-099-VG
SF	E242	FIRE-DRILL AREA E242	HIGH ROOF	1500	0.75	ROOF FILTERED SUPPLY	BELT	772	1/2	115	1	1, MODEL RSF-100-5

REFER TO ASSOCITED FAN NOTES BELOW. ALL SELECTIONS BASED ON GREENHECK.

EF NOTES ONLY

1. SELECTION BASED ON GREENHECK.
2. MOTOR - VARI-GREEN EC MOTOR W/MOUNTED POTENTIOMETER DIAL
3. SWITCH, NEMA-1, TOGGLE, SHIPPED WITH UNIT
5. JUNCTION BOX MOUNTED & WIRED.
4. ROOF CURB-GALV., GPI-30-G18, UNDER SIZED 1.5 IN. TOTAL, CURB SEAL (ATTACHED).
5. DAMPER SHIPPED LOOSE, GRAVITY OPERATED, NOT COATED.
6. WIRING PIGTAIL, INTERNAL, GENERAL, 9 FT FROM UNIT OF FLEXIBLE METAL CONDUIT.
7. BIRDSCREEN: ALUMINUM.
8. TIE DOWN POINTS - SET OF 4 (ATTACHED), STANDARD FASTENERS.

CEF & SF NOTES ONLY

9. SPARK B CONSTRUCTION.
10. PAINTED STEEL HOUSING MATERIAL.
11. ALUMINUM WHEEL CONSTRUCTION, MILL FINISH.
12. ALUMINUM INLET CONE, MILL FINISH.
13. UL/CUL 705 LISTED - "POWER VENTILATORS".
14. ISOLATORS (QTY:4), RUBBER MOUNT FOR INDOOR/OUTDOOR USE, SINGLE DEFLECTION 0.25 IN.
15. EQUIPMENT SUPPORTS (QTY:2), GESS-35-4-G8.
16. WEATHERHOOD.
17. COATED WITH PERMATECTOR, CONCRETE GRAY-RAL 7023, STANDARD COATING ON ENTIRE FAN.
18. HINGED ACCESS DOOR.
19. THREADED PIPE DRAIN CONNECTION,1 IN. DIAMETER.
20. COMPANION FLANGE - INLET (INCLUDES INLET FLANGE).
21. OUTLET FLANGE - PUNCHED.
22. OUTLET GUARD.
23. SHAFT SEAL W/RUB RING.

DEF & KEF NOTES ONLY

24. NEMA PREMIUM EFFICIENT MOTOR - MEETS NEMA TABLE 12-12
25. MOTOR VFD RATED WITHOUT SHAFT GROUNDING PROTECTION
26. AUTOMATIC BELT TENSIONER
27. GRIP NOTCH BELT(S)
28. SPARE BELT(S) - 2 SETS (ATTACHED)
29. UL/CUL 762 LISTED - "POWER VENTILATORS FOR REST. EXH. APPLIANCES"
30. SWITCH, NEMA-1, TOGGLE, SHIPPED WITH UNIT
31. JUNCTION BOX MOUNTED & WIRED
32. ROOF CURB-GALV., GPF-40-G24, UNDER SIZED 1.25 IN. TOTAL
33. HINGED CURB CAP KIT W/CABLES (PN 853443) & SUPPORT BRACKET (SHIPPED LOOSE)
34. COATED WITH PERMATECTOR, CONCRETE GRAY-RAL 7023, FAN AND ATTACHED ACC
35. NON-STICK COATED WHEEL (TEFLON)
36. WIRING PIGTAIL, EXTERNAL, GENERAL, 9 FT FROM UNIT OF NON-METALLIC LIQUID-TITE
37. EXTENDED LUBE LINES
38. DRAIN CONNECTION
39. HEAT BAFFLE (ATTACHED)
40. BEARINGS WITH GREASE FITTINGS, L10 LIFE OF 100,000 HRS (L50 AVG. LIFE 500,000 HRS)
41. CLEAN-OUT PORT
42. UNIT WARRANTY: 1 YR (STANDARD)

MECHANICAL SMOKE EVACUATION FAN SCHEDULE - SSF, SEF

TAG	NUMBER	SERVES	LOCATION	MAX CFM	SP IN WC	FAN TYPE	DRIVE TYPE	FAN RPM	ELECTRICAL DATA HP	VOLT	PH	REMARKS
SEF	1	ATRIUM SMOKE EXHAUST	HIGH ROOF	40,000	1.0	AIR FOIL	BELT	678	20	460	3	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, MODEL 40CSW-AF-21-10-1-250
SEF	2	ATRIUM SMOKE EXHAUST	HIGH ROOF	40,000	1.0	AIR FOIL	BELT	678	20	460	3	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, MODEL 40CSW-AF-21-10-1-250
SEF	3	ATRIUM SMOKE EXHAUST	HIGH ROOF	40,000	1.0	AIR FOIL	BELT	678	20	460	3	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, MODEL 40CSW-AF-21-10-1-250
SSF	1	ATRIUM SMOKE EXHAUST MAKE-UP AIR	HIGH ROOF	3,500	.625	BACKWARD INCLINE	DIRECT	1770	2	460	3	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, MODEL 16-CSW-BI-41-100-I-20
SSF	2	ATRIUM SMOKE EXHAUST MAKE-UP AIR	HIGH ROOF	3,500	.625	BACKWARD INCLINE	DIRECT	1770	2	460	3	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, MODEL 16-CSW-BI-41-100-I-20

1. SELECTION BASED ON GREENHECK.
2. MOTOR VFD RATED WITHOUT SHAFT GROUNDING PROTECTION
3. MOTOR SIZED FOR FAN RPM OPERATION WITH VFD, NOT POWER LINE HZ
4. MOTOR WITH CLASS B INSULATION
5 COATED WITH PERMATECTOR, CONCRETE GRAY-RAL 7023, FAN AND ATTACHED ACCESSORIES
6. FAN MONITORING SYSTEM, CURRENT SENSOR PACKAGE, 100 - 240 VAC, SHIPS LOOSE
7. DIRECT MOUNT ISOLATORS, ISOLATOR-SPRING, FREE STANDING, 1 INCH, BASE COATING - N/A
8. HOUSING - WELDED SCROLL
9. ACCESS DOOR - HINGED
10. DRAIN CONNECTION - 1" PIPE THREAD W/PLUG
11. SURE-AIRE FLOW STATION (WITH ELECTRONICS), 100-240VAC
12. INLET CONNECTION - PUNCHED WITH COMPANION FLANGE
13. OUTLET CONNECTION - OUTLET FLANGE, PUNCHED
14. MOTOR COVER, STEEL
15. OUTLET GUARD - OUTLET GUARD, STEEL, COATED W/SAFETY YELLOW FNISH
16. INLET GUARD - INLET GUARD, GALVANIZED
17. FASTENERS - STANDARD
18. NEMA PREMIUM EFFICIENT MOTOR - MEETS NEMA TABLE 12-12
19. MOTOR VFD RATED WITHOUT SHAFT GROUNDING PROTECTION
20. MOTOR WITH CSA APPROVAL
21. MOTOR WITH MINIMUM 40 DEGREE C AMBIENT TEMPERATURE
22. MOTOR WITH CLASS F INSULATION
23. SPARE BELTS - 2 SETS
24. SWITCH - NEMA-1, TOGGLE, FOR INDOOR USE ONLY, SHIP SEPARATE
25. BEARINGS - L(10) LIFE OF 80K HOURS
26. HOUSING - PERMALOCK
27. UL LISTED FOR SMOKE EXHAUST (500F/4HR, 1000F/15 MIN)
28. DAMPER, OUTLET VOLUME, HCD-230, GALV. BLADE, OPPOSED, MANUAL QUADRANT, W/ MILL FINISH
29. EXTENDED LUBE LINES - COPPER
30. WEATHERHOOD - STEEL
31. HEAT SLINGER
32. SHAFT SEAL - HIGH TEMPERATURE
33. FASTENERS - STANDARD

MECHANICAL DRYER BOOSTER FAN SCHEDULE - DBF

TAG	NUMBER	SERVES	LOCATION	CFM	SP IN WC	FAN TYPE	DRIVE TYPE	FAN RPM	ELECTRICAL DATA WATTS	VOLT	PH	REMARKS
DBF	D132C	DRYER IN ROOM D132C	LOCKER RM D132C	120	0.5	INLINE CENT.	DIRECT	2800	75	115	1	1, 2, 3, 4, MODEL DBF4XL
DBF	D112	DRYER IN ROOM D112	FACS CULINARY LAB D112	120	0.5	INLINE CENT.	DIRECT	2800	75	115	1	1, 2, 3, 4, MODEL DBF4XL
DBF	D132D	DRYER IN ROOM D132D	LINEN/CLEANING D132D	120	0.5	INLINE CENT.	DIRECT	2800	75	115	1	1, 2, 3, 4, MODEL DBF4XL
DBF	C104D	DRYER IN ROOM C104D	CUSTODIAL C104D	120	0.5	INLINE CENT.	DIRECT	2800	75	115	1	1, 2, 3, 4, MODEL DBF4XL
DBF	E126A	DRYER IN ROOM E126A	DRYER IN ROOM E126A	120	0.5	INLINE CENT.	DIRECT	2800	75	115	1	1, 2, 3, 4, MODEL DBF4XL

1. SELECTION BASED ON FANTEC.
2. DBFXL KIT INCLUDES: FX4XL FAN, DB10 SWITCH W/ INTEGRAL RELAY AND MBFAN MOUNTING BRACKET & HARDWARE.
3. WITH SPEED CONTROLLER.
4. BOOSTER FAN TO BE LOCATIED A MINIMUM OF 15 LINEAR FEET AWAY FROM DRYER OUTLET.

LAVALLEE BRENSINGER ARCHITECTS
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RFS Project #: 7300.001

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LICENSED PROFESSIONAL ENGINEER

Sanford School Department and State of Maine Department of Education

SANFORD HIGH SCHOOL and TECHNICAL CENTER

SANFORD, ME 04073

NO.	DESCRIPTION	DATE

FOR ADDITIONAL INFORMATION, REFER TO PROJECT MANUAL.

CONTENT: MECHANICAL SCHEDULES

DRAWN BY: S. DANBY
PROJECT NO: 12-067-00
DATE: 02/11/2016
REVISED:
SCALE: NO SCALE

M5.02

Project Phase
BID DOCUMENTS

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MECHANICAL DUCT MOUNTED HEATING COIL SCHEDULE - HC

TAG	NUMBER	LOCATION	SERVES	ASSOCIATED MECHANICAL DHU UNIT	CFM	DUCT WIDTH	DUCT HEIGHT	HEATING COIL DATA								REMARKS
								MAX APD (W.C.)	EAT (F)	LAT (F)	EWT (F)	LWT (F)	GPM	MBH	MAX WPD (W.C.)	
HC	A120a	A120	MAIN COMMON A120	DHU 12	1200	24	16	0.3	40	80	160	120	2.6	51.9	1.0	
HC	A120b	A120	MAIN COMMON A120	DHU 12	900	18	18	0.3	40	80	160	120	2.0	38.9	1.0	
HC	A120c	A120	MAIN COMMON A120	DHU 12	900	24	16	0.3	40	80	160	120	2.0	38.9	1.0	
HC	A121B	A121B	LIBRARY RES. A127	DHU 12	1500	24	18	0.3	40	80	160	120	3.3	64.8	1.0	
HC	A127	A127	LIBRARY RES. A127	DHU 12	200	10	8	0.3	40	80	160	120	0.5	8.7	1.0	
HC	A140	A140	ECE INSTR A140	DHU 8	400	12	10	0.3	40	80	160	120	0.9	17.3	1.0	
HC	A141	A140A	OFFICE A141	DHU 8	100	6	6	0.3	40	80	160	120	0.5	4.3	1.0	
HC	A143	143	ECE 143	DHU 8	1200	24	18	0.3	40	80	160	120	2.6	51.9	1.0	
HC	A143A	A143	ECE KITCHEN A143A	DHU 8	400	12	10	0.3	40	80	160	120	0.9	17.3	1.0	
HC	A144	A143	ECE A143	DHU 12	150	6	6	0.3	40	80	160	120	0.5	6.5	1.0	
HC	A170	A170	CORRIDOR A170	DHU 12	1200	24	18	0.3	40	80	160	120	2.6	51.9	1.0	
HC	A178	A178	CAFE/CONN. A178	DHU 12	400	12	10	0.3	40	80	160	120	0.9	17.3	1.0	
HC	A182	A180	IT OFFICE A182	DHU 12	550	14	14	0.3	40	80	160	120	1.2	23.8	1.0	
HC	A220a	A220	MAIN COMMON A220	DHU 12	900	18	18	0.3	40	80	160	120	2.0	38.9	1.0	
HC	A220a	A220	MAIN COMMON A220	DHU 12	900	18	18	0.3	40	80	160	120	2.0	38.9	1.0	
HC	A220b	A220	MAIN COMMON A220	DHU 12	900	18	18	0.3	40	80	160	120	2.0	38.9	1.0	
HC	A260	A270	JOBS FOR GRADS A260	DHU 12	200	10	8	0.3	40	80	160	120	0.5	8.7	1.0	
HC	A268	A268	ED TECH OFFICES (10) A268	DHU 12	400	12	10	0.3	40	80	160	120	0.9	17.3	1.0	
HC	A270a	A270	CORRIDOR A270	DHU 12	600	12	10	0.3	40	80	160	120	1.3	25.9	1.0	
HC	A270b	A270	CORRIDOR A170	DHU 1A	900	24	16	0.3	40	80	160	120	2.0	38.9	1.0	
HC	A282	A268	CONTROL ROOM A282	DHU 12	100	6	6	0.3	40	80	160	120	0.5	4.3	1.0	
HC	B052	B058	MAINT. B052	DHU 1A	600	14	14	0.3	40	80	160	120	1.3	25.9	1.0	
HC	B055	B058	CUST. OFF. B055	DHU 1B	600	14	14	0.3	40	80	160	120	1.3	25.9	1.0	
HC	B120a	B120	CORR. B120	DHU 1B	1500	24	18	0.3	40	80	160	120	3.3	64.8	1.0	
HC	B120b	B140	A+G LIBRARY B120A	DHU 1B	300	10	8	0.3	40	80	160	120	0.7	13.0	1.0	
HC	B127	B127	FINE ART B127	DHU 1B	900	18	18	0.3	40	80	160	120	2.0	38.9	1.0	
HC	B130	B130	OFFICE B130	DHU 1B	300	10	8	0.3	40	80	160	120	0.7	13.0	1.0	
HC	B139	B127A	OFFICE B139	DHU 1B	150	6	6	0.3	40	80	160	120	0.5	6.5	1.0	
HC	B140B	B140B	PRACT B140B B140C B140D	DHU 1B	90	6	6	0.3	40	80	160	120	0.5	4.1	1.0	
HC	B141	B141	FINE ART B141	DHU 1B	600	24	16	0.3	40	80	160	120	1.3	25.9	1.0	
HC	B142	B142A	BAND B142	DHU 1B	900	24	16	0.3	40	80	160	120	2.0	38.9	1.0	
HC	B142A	B142A	BAND STORAGE	DHU 1B	250	10	8	0.3	40	80	160	120	0.6	10.8	1.0	
HC	B144	B144	CHORUS	DHU 1B	900	24	16	0.3	40	80	160	120	2.0	38.9	1.0	
HC	B144A	B144A	MUSIC OFF. B144A	DHU 1B	100	6	6	0.3	40	80	160	120	0.5	4.3	1.0	
HC	B146	B146	MIOILAB BI46	DHU 1B	300	12	10	0.3	40	80	160	120	0.7	13.0	1.0	
HC	B147	B147	POTTERY 147	DHU 1B	900	18	18	0.3	40	80	160	120	2.0	38.9	1.0	
HC	B220	B220	CORR. B220	DHU 1A	900	18	18	0.3	40	80	160	120	2.0	38.9	1.0	
HC	B235	B235	CLASS B235	DHU 1A	400	12	10	0.3	40	80	160	120	0.9	17.3	1.0	
HC	B237	B237	CLASS B237	DHU 1A	400	12	10	0.3	40	80	160	120	0.9	17.3	1.0	
HC	B238	B238	CLASS B238	DHU 1A	400	12	10	0.3	40	80	160	120	0.9	17.3	1.0	
HC	B241	B241	OFFICE B241 &B231	DHU 1A	600	14	14	0.3	40	80	160	120	1.3	25.9	1.0	
HC	B243	B243	CLASS B243	DHU 1A	400	12	10	0.3	40	80	160	120	0.9	17.3	1.0	
HC	B244	B244	CLASS B244	DHU 1A	400	12	10	0.3	40	80	160	120	0.9	17.3	1.0	
HC	B245	B245	CLASS B245	DHU 1A	400	12	10	0.3	40	80	160	120	0.9	17.3	1.0	
HC	B246	B246	CLASS B246	DHU 1A	400	12	10	0.3	40	80	160	120	0.9	17.3	1.0	
HC	B247	B245	OFFICE(3)/PREP B247	DHU 1A	300	10	8	0.3	40	80	160	120	0.7	13.0	1.0	
HC	B249	B249	SCI LAB B249	DHU 1A	1200	24	16	0.3	40	80	160	120	2.6	51.9	1.0	
HC	C101	C101	INCUBATOR C101	DHU 3	1200	24	16	0.3	40	80	160	120	2.6	51.9	1.0	
HC	C105	C105A	ROBOTICS C105	DHU 3	1200	24	16	0.3	40	80	160	120	2.6	51.9	1.0	
HC	C108	C106	OFFICE C108	AHU 6	400	12	10	0.3	40	80	160	120	0.9	17.3	1.0	
HC	C110	C110	SCI LAB C110	DHU 3	1500	24	18	0.3	40	80	160	120	3.3	64.8	1.0	
HC	C110A	C110A	OFFICE C112 & PREP C110A	DHU 3	250	10	8	0.3	40	80	160	120	0.6	10.8	1.0	
HC	C113A	C113A	INSTRUCTION C113A	DHU 3	500	14	14	0.3	40	80	160	120	1.1	21.6	1.0	
HC	C114	C114	SCI LAB C114	DHU 3	1200	24	16	0.3	40	80	160	120	2.6	51.9	1.0	
HC	C115	C115	RES WIRING C115	DHU 3	1200	24	16	0.3	40	80	160	120	2.6	51.9	1.0	
HC	C117	C117	INSTRUCTIONAL C117A	DHU 3	500	14	14	0.3	40	80	160	120	0.7	16.2	1.0	
HC	C117A	C117A	CTE EXP. C117	DHU 3	1800	24	18	0.3	40	80	160	120	3.9	77.8	1.0	
HC	C120	C120	CORR. C120	DHU 3	600	14	14	0.3	40	80	160	120	1.3	25.9	1.0	
HC	C120	C134	SCIENCE & TECHNOLOGY C120	DHU 4	1200	24	18	0.3	40	80	160	120	2.6	51.9	1.0	
HC	C120A	C120A	S&T LAB C120A	DHU 3	1200	24	16	0.3	40	80	160	120	2.6	51.9	1.0	
HC	C120b	C120	TECH CORR C120	DHU 3	1200	12	10	0.3	40	80	160	120	2.6	51.9	1.0	
HC	C121	C127B	FINISHING RM C121	DHU 5	600	14	14	0.3	40	80	160	120	1.3	25.9	1.0	
HC	C124	C124	SCIENCE LAB C124	DHU 3	1500	24	18	0.3	40	80	160	120	3.3	64.8	1.0	
HC	C125	C120A	OFFICE C125 & C119	DHU 3	225	10	8	0.3	40	80	160	120	0.6	10.8	1.0	
HC	C127a	C133	BUILDING TRADES C133	DHU 5	1500	24	18	0.3	40	80	160	120	3.3	64.8	1.0	
HC	C127b	C133	BUILDING TRADES C133	DHU 5	1500	24	18	0.3	40	80	160	120	3.3	64.8	1.0	
HC	C132	C132	OFFICE C132	DHU 5	100	6	6	0.3	40	80	160	120	0.5	4.3	1.0	
HC	C133A	C133a	AUTO TECH C133A	DHU 5	300	10	8	0.3	40	80	160	120	0.7	13.0	1.0	
HC	C133a	C133	AUTO TECH & C133	DHU 5	1500	24	18	0.3	40	80	160	120	3.3	64.8	1.0	
HC	C133b	C133	AUTO TECH C133	DHU 5	1500	24	18	0.3	40	80	160	120	3.3	64.8	1.0	
HC	C134A	C134A	INSTRUCTOR C134A	DHU 4	400	12	10	0.3	40	80	160	120	0.9	17.3	1.0	
HC	C134a	C134	PRECISION MGT	DHU 4	1500	24	18	0.3	40	80	160	120	3.3	64.8	1.0	
HC	C134b	C134	PRECISION MGT	DHU 4	1500	24	18	0.3	40	80	160	120	3.3	64.8	1.0	
HC	C134c	C134C	INSPECTION C134C	DHU 4	200	6	6	0.3	40	80	160	120	0.5	8.7	1.0	
HC	C135	C139A	OFFICES C135 & C135A	DHU 5	100	10	8	0.3	40	80	160	120	0.5	4.3	1.0	
HC	C136	C136	OFFICE C136	DHU 4	150	6	6	0.3	40	80	160	120	0.5	6.5	1.0	
HC	C138A	C138A	WELDING CLASS C138A	DHU 4	500	14	14	0.3	40	80	160	120	0.7	16.2	1.0	
HC	C138a	C134	WELDING FABRICATION C138	DHU 4	1500	24	18	0.3	40	80	160	120	3.3	64.8	1.0	
HC	C138b	C134	WELDING FABRICATION C138	DHU 4	1500	24	18	0.3	40	80	160	120	3.3	64.8	1.0	
HC	C139A	C139A	COLLISION INS & C139A	DHU 5	300	10	8	0.3	40	80	160	120	0.7	13.0	1.0	
HC	C139a	C139	AUTO COLLISION C139	DHU 5	1500	24	18	0.3	40	80	160	120	3.3	64.8	1.0	
HC	C139B	C139B	AUTO COLLISION C139	DHU 5	300	10	8	0.3	40	80	160	120	0.7	13.0	1.0	
HC	C139b	C139	STORAGE C139 & C139C	DHU 5	1500	24	18	0.3	40	80	160	120	3.3	64.8	1.0	
HC	C202	C202	CAD LAB C202	DHU 2	900	18	18	0.3	40	80	160	120	2.0	38.9	1.0	
HC	C205	C205	PROJ CLASS C205	DHU 12	400	12	10	0.3	40	80	160	120	0.9	17.3	1.0	
HC	C206	C206	CLASS C206	DHU 2	400	12	10	0.3	40	80	160	120	0.9	17.3	1.0	
HC	C207	C207	STORAGE C207 & C209	DHU 2	600	14	14	0.3	40	80	160	120	1.3	25.9	1.0	
HC	C208	C208	CLASS C208	DHU 2	400	12	10	0.3	40	80	160	120	0.9	17.3	1.0	
HC	C212	C212	CLASS C212	DHU 2	400	12	10	0.3	40	80	160	120	0.9	17.3	1.0	
HC	C214	C214	CLASS C214	DHU 2	400	12	10	0.3	40	80	160	120	0.9	17.3	1.0	
HC	C218	C218	OFFICE C218	DHU 2	200	10	8	0.3	40	80	160	120	0.5	8.7	1.0	
HC	C219	C220	TOILET C219 & C221	DHU 2	600	12	10	0.3	40	80	160	120	1.3	25.9	1.0	
HC	C220a	C220	CORR C220	DHU 2	600	14	14	0.3	40	80	160	120	1.3	25.9	1.0	
HC	C220b	C220	CORR C220	DHU 2	600	14	14	0.3	40	80	160	120	1.3	25.9	1.0	
HC	C224	C224	CLASS C224	DHU 2	400	12	10	0.3	40	80	160	120	0.9	17.3	1.0	
HC	C225	C225	OFFICE C225	DHU 2	300	12	10	0.3	40	80	160	120	0.7	13.0	1.0	
HC	D113	D113	CLASS D113	DHU 6B	400	12	10	0.3	40	85	160	120	1.0	19.5	1.0	
HC	D117A	D117A	CLASS D117A	DHU 6B	400	12	10	0.3	40	85	160	120	1.0	19.5	1.0	
HC	D117B	C117B	CLASS D117B	DHU 6B	400	12	10	0.3	40	85	160	120	1.0	19.5	1.0	
HC	D120	D130	CORR D130	DHU 6B	400	12	10	0.3	40	80	160	120	0.9	17.3	1.0	
HC	D120A	D117B	PATHWAY LIBRERY D120A	DHU 6B	500	14	14	0.3	40	80	160	120	0.7	16.2	1.0	
HC	D122	D122	BUSIMESS/MATH D122	DHU 6B	400	12	10	0.3	40	80	160	120	0.9	17.3	1.0	
HC	D128	D128	BUSINESS D128	DHU 6B	400	12	10	0.3	40	80	160	120	0.9	17.3	1.0	
HC	D130	D130	BUSINESS/BANK D130	DHU 6B	400	12	10	0.3	40	80	160	120	0.9	17.3	1.0	
HC	D132	D132	COSM. LAB D132	DHU 6B	1200	24	18	0.3	40	80	160	120	2.6	51.9	1.0	
HC	D132A	D132C	COSM. D132A	DHU 6B	520	14	14	0.3	40	80	160	120	0.7	16.2	1.0	
HC	D134	D132	OFFICE D134 & DISPENSORY D132B	DHU 6B	350	12	10	0.3	40	80	160	120	0.8	17.0	1.0	
HC	D140	D140	PUBLIC LOBBY D140	DHU 6B	400	12	10	0.3	40	80	160	120	0.9	17.3	1.0	
HC	D150	D150C	HORTICULTURE D150	DHU 6B	100	24	18	0.3	40	80	160	120	0.5	4.3	1.0	
HC	D150A	D150	INSTRUCTIONAL D150A	DHU 6B	250	10	8	0.3	40	80	160	120	0.6	10.8	1.0	
HC	D158	D150A	RECP. D158 & SRO OFFICE D158A	DHU 6B	100	6	6	0.3	40	80	160	120	0.5	4.3	1.0	
HC	D213	D213	CLASS D213	DHU 7	400	12	10	0.3	40	90	160	120	1.1	21.6	1.0	
HC	D217	D217	CLASS D217	DHU 7	400	12	10	0.3	40	90	160	120	1.1	21.6	1.0	
HC	D219	D219	BIO SCI LAB D219	DHU 7	1200	24	18	0.3	40	80	160	120	2.6	51.9	1.0	
HC	D221	D221	OFFICE D221 & D225	DHU 7	600	14	14	0.3	40	80	160	120	1.3	25.9	1.0	
HC	D222	D222	CLASS D222	DHU 7	400	12	10	0.3	40	85	160	120	1.0	19.5	1.0	
HC	D227	D233	PREP ROOM D227	DHU 7	250	10	8	0.3	40	80	160	120	0.6	10.8	1.0	
HC	D228	D228	CLASS D228	DHU 7	400	12	10	0.3	40	80	160	120	0.9	17.3	1.0	
HC	D230	D230	CLASS D230	DHU 7	400	12	10	0.3	40	80	160	120	0.9	17.3	1.0	
HC	D233	D233	BIO SCI LAB D233	DHU 7	1200	24	16	0.3	40	80	160	120	2.6	51.9	1.0	
HC	D237	D237	EARTH SCI CLASS D237	DHU 7	1000	24	16	0.3	40	80	160	120	2.2	43.3	1.0	
HC	D238	D238	CLASS D238	DHU 7	400	12	10	0.3	40	80	160	120	0.9	17.3	1.0	
HC	D240	D240	OFFICE D240	DHU 7	150	6	6	0.3	40	80	160	120	0.5	6.5	1.0	
HC	D241	D241	OFFICE D241	DHU 7	100	14	14	0.3	40	80	160	120	0.5	4.3	1.0	
HC	D242	D242	CLASS D247	DHU 7	400	12	10	0.3	40	80	160	120	0.9	17.3	1.0	
HC	D243	D243	BUS SER D243	DHU 7	400	12	10	0.3	40	80	160	120	0.9	17.3	1.0	
HC	D244	D244	CLASS D244	DHU 7	400	12	10	0.3	40	80	160	120	0.9	17.3	1.0	
HC	D245	D245	MARKETING/MANG D245	DHU 7	400	12	10	0.3	40	80	160	120	0.9	17.3	1.0	
HC	D249	D249	CONF D249	DHU 7	400	12	10	0.3	40	80	160	120	0.9	17.3	1.0	
HC	E102	E102	OFFICE E102	DHU 8	150	6	6	0.3	40	80	160	120	0.5	6.5	1.0	
HC	E104	E104	FACS FASHION E104	DHU 8	400	12	10	0.3	40	80	160	120	0.9	17.3	1.0	
HC	E118	E118	HEALTH OCC E118	DHU 8	400	12	10	0.3	40	80	160	120	0.9	17.3	1.0	
HC	E120A	E121	PATHWAY LIB E120A	DHU 8	1000	18	18	0.3	40	80	160	120	2.2	43.3	1.0	
HC	E121	E121	CLASS E121	DHU 8	400	12	10	0.3	40	80	160	120	0.9	17.3	1.0	
HC	E123A	E123A	CLASS E123A	DHU 8	400	12	10	0.3	40	90	160	120	1.1	21.6	1.0	
HC	E123B	E123B	CLASS E123B	DHU 8	400	12	10	0.3	40	90	160	120	1.1	21.6	1.0	
HC	E124	E126	E124, E126A & E122	DHU 8	400	12	10	0.3	40	80	160	120	0.9	17.3	1.0	
HC	E127	E127	CLASS E127	DHU 8	400	12	10	0.3	40	80	160	120	0.9	17.3	1.0	
HC	E128	E128	HEALTH OCC E128	DHU 8	400	12	10	0.3	40	80	160	120	0.9	17.3	1.0	
HC	E128A	E128	TRAINING THT E128A E1181	DHU 8	400	12	10	0.3	40	80	160	120	0.9	17.3	1.0	
HC	E140	E140 (HIGH)	FIRE SCIENCE E140	DHU 9	1500	24	18	0.3	40	80	160	120	3.3	64.8	1.0	
HC	E142	E142	FIRE INST E142	DHU 9	300	10	8	0.3	40	80	160	120	0.7	13.0	1.0	
HC	E143	E143	EMS INST E143	DHU 9	300	10	8	0.3	40	80	160	120	0.7	13.0	1.0	
HC	E145A	E140B	FIRE OFFICE E145A & EMS SIM E143A	DHU 9	250	10	8	0.3	40	80	160	120	0.6	10.8	1.0	
HC	E148	E148	OFFICE E148 & E151	DHU 9	400	12	10	0.3	40	80	160	120	0.9	17.3	1.0	
HC	E150	E150	COMMON E150	DHU 9	400	12	10	0.3	40	80	160	120	0.9	17.3	1.0	
HC	E152	E152	CLASS E152	DHU 9	300	10	8	0.3	40	80	160	120	0.7	13.0	1.0	
HC	E153	E153	CLASS E153	DHU 9	300	10	8	0.3	40	80	160	120	0.7	13.0	1.0	
HC	E155	E150	SM GROUP E155 & E156	DHU 9	200	10	8	0.3	40	80	160	120	0.5	8.7	1.0	
HC	E157	E157	CLASS E157	DHU 9	300	10	8	0.3	40	80	160	120	0.7	13.0	1.0	
HC	E159	E159	OFFICE E159 & E158	DHU 9	150	6	6	0.3	40	80	160	120	0.5	6.5	1.0	
HC	E212	E212	SCI BIO LAB E212	DHU 8	1200	24	18	0.3	40	80	160	120	2.6	51.9	1.0	

1. SELECTION BASED ON TRANE.

MECHANICAL DUCT MOUNTED HEATING COIL SCHEDULE - HC

TAG	NUMBER	LOCATION	SERVES	ASSOCIATED MECHANICAL DHU UNIT	CFM	DUCT WIDTH	DUCT HEIGHT	HEATING COIL DATA								REMARKS
								MAX APD (W.C.)	EAT (F)	LAT (F)	EWT (F)	LWT (F)	GPM	MBH	MAX WPD (W.C.)	
HC	E213	E213	ENG/SPEC E213	DHU 8	400	12	10	0.3	40	80	160	120	0.9	17.3	1.0	
HC	E215	E215	OFFICE E215	DHU 8	300	10	8	0.3	40	80	160	120	0.7	13.0	1.0	
HC	E216	E214	OFFICE E216 & E214	DHU 9	425	12	10	0.3	40	80	160	120	0.9	17.3	1.0	
HC	E220a	E220	CORR E220	DHU 8	400	14	14	0.3	40	80	160	120	0.9	17.3	1.0	
HC	E220b	E220	CORR E220	DHU 8	400	12	10	0.3	40	80	160	120	0.9	17.3	1.0	
HC	E221	E221	SCI CLASS E221	DHU 8	400	12	10	0.3	40	80	160	120	0.9	17.3	1.0	
HC	E222	E222	SCI-BIO E222	DHU 9	1200	24	16	0.3	40	80	160	120	2.6	51.9	1.0	
HC	E223	E223	CLASS E223	DHU 8	400	12	10	0.3	40	80	160	120	0.9	17.3	1.0	
HC	E224A	E226	OFFICE 224A	DHU 9	100	6	6	0.3	40	80	160	120	0.5	4.3	1.0	
HC	E225	E225	CLASS E225	DHU 8	400	12	10	0.3	40	80	160	120	0.9	17.3	1.0	
HC	E227	E227	CLASS E227	DHU 8	400	12	10	0.3	40	80	160	120	0.9	17.3	1.0	
HC	E228	E228	CRIMINAL JUSTICE E228	DHU 9	600	14	14	0.3	40	80	160	120	1.3	25.9	1.0	
HC	E242a	E242	FIRE DRILL E242	DHU 8	400	12	10	0.3	40	80	160	120	0.9	17.3	1.0	
HC	E242b	E242	SF-E242	N/A	1500	24	18	0.3	40	80	160	120	3.3	64.8	1.0	
HC	E248	E248	OFFICE E248	DHU 9	200	10	8	0.3	40	80	160	120	0.5	8.7	1.0	
HC	E250	E250	ALT ED COMMONS E250	DHU 9	400	12	10	0.3	40	80	160	120	0.9	17.3	1.0	
HC	E251	E251	CLASS E251	DHU 9	300	10	8	0.3	40	80	160	120	0.7	13.0	1.0	
HC	E252	E251	CLASS E252	DHU 9	300	10	8	0.3	40	80	160	120	0.7	13.0	1.0	
HC	E255	E250	SM GROUP E255	DHU 9	150	6	6	0.3	40	80	160	120	0.5	6.5	1.0	
HC	E256	E250	CLASS E256	DHU 9	300	10	8	0.3	40	80	160	120	0.7	13.0	1.0	
HC	E259	E250A	OFFICE E259	DHU 9	400	12	10	0.3	40	80	160	120	0.9	17.3	1.0	
HC	F100	288	OFFICE F100	DHU 12	1200	24	16	0.3	40	80	160	120	2.6	51.9	1.0	
HC	F111	F111	CIR F111 & OFFICE F106A & F106	DHU 10	900	18	18	0.3	40	80	160	120	2.0	38.9	1.0	
HC	F119	F119	CIRC F119	DHU 10	1500	24	18	0.3	40	80	160	120	3.3	64.8	1.0	
HC	F121	F123	CLASS F121	DHU 11	400	12	10	0.3	40	80	160	120	0.9	17.3	1.0	
HC	F123	F125	HEALTH LAB F123	DHU 11	600	14	14	0.3	40	90	160	120	1.6	32.4	1.0	
HC	F125	F125	WEIGHT RM F125	DHU 11	900	18	18	0.3	40	90	160	120	2.5	48.6	1.0	
HC	F126	F128	MULT PURP F126	DHU 11	1500	24	18	0.3	40	80	160	120	3.3	64.8	1.0	
HC	F127	F127	PE TRAINING F127	DHU 11	400	12	10	0.3	40	85	160	120	1.0	19.5	1.0	
HC	F128	F128	CORR F128	DHU 11	900	18	18	0.3	40	80	160	120	2.0	38.9	1.0	
HC	F131	F131	LOCKER F131	DHU 10	600	14	14	0.3	40	105	160	120	2.1	42.3	1.0	
HC	F134	F135	OFFICE F132 & F134	DHU 10	200	10	8	0.3	40	80	160	120	0.5	8.7	1.0	
HC	F135	F135	LOCKER RM F135	DHU 10	900	18	18	0.3	40	105	160	120	3.2	63.5	1.0	
HC	F136	F136	TEAM RM F136	DHU 10	600	14	14	0.3	40	105	160	120	2.1	42.3	1.0	
HC	F141	F141	LOCKER RM F141	DHU 10	900	18	18	0.3	40	105	160	120	3.2	63.5	1.0	
HC	F144	F141	OFFICE F142 & F144	DHU 10	200	10	8	0.3	40	80	160	120	0.5	8.7	1.0	
HC	F145	F145	LOCKER RM F145	DHU 10	600	14	14	0.3	40	105	160	120	2.1	42.3	1.0	
HC	F146	F146	TEAM RM F146	DHU 10	600	14	14	0.3	40	105	160	120	2.1	42.3	1.0	

1. SELECTION BASED ON TRANE.

MECHANICAL VARIABLE/CONSTANT AIR VOLUME BOX SCHEDULE - SV

TAG	NUMBER	LOCATION	SERVES	ASSOCIATED MECHANICAL AHU UNIT	MIN CFM	MAX CFM	UNIT SIZE	INLET SIZE IN	OUTLET SIZE IN	MIN. SP IN WC	MAX NC	HEATING COIL DATA								REMARKS
												EAT (F)	LAT (F)	EWT (F)	LWT (F)	GPM	MBH	MAX APD (W.C.)	MAX PD (FT WC)	
SV	A101A	A101A	RECEPTION/WRITING A101A	9	250	630	10	10Ø	14 x 12	.05	20	50	85	160	120	0.5	9.5	0.6	2.0	1, 2
SV	A102	A102	AP DEAN STUDENTS A102	9	100	150	6	6Ø	10 x10	.08	22	50	85	160	120	0.5	3.8	0.6	2.0	1, 2
SV	A103	A103	AP TRUANT A103	9	150	350	6	6Ø	10 x10	.08	22	50	85	160	120	0.5	5.7	0.6	2.0	1, 2
SV	A107	A109	PRINC CONF A109	9	120	300	6	6Ø	10 x10	.08	22	50	85	160	120	0.5	4.1	0.6	2.0	1, 2
SV	A108A	A108A	WORK AREA A108A	9	260	650	10	10Ø	14 x 12	.05	20	50	85	160	120	0.6	10.6	0.6	2.0	1, 2
SV	A109	A109	PRINC A109	9	100	225	6	6Ø	10 x10	.08	22	50	85	160	120	0.5	3.8	0.6	2.0	1, 2
SV	A110	A110	CTE ADMIN A110	7	200	400	6	6Ø	10 x10	.08	22	50	85	160	120	0.6	7.6	0.6	2.0	1, 2
SV	A111	A111	DIRECTOR A111	7	100	200	6	6Ø	10 x10	.08	22	50	85	160	120	0.5	3.8	0.6	2.0	1, 2
SV	A112	A112	OUTREACH CONF A112	7	150	400	6	6Ø	10 x10	.08	22	50	85	160	120	0.5	5.7	0.6	2.0	1, 2
SV	A116	A116	AS RECORD A116	7	100	150	6	6Ø	10 x10	.08	22	50	85	160	120	0.5	3.8	0.6	2.0	1, 2
SV	A117	A117	CTE GUIDANCE A115, AS OFF. A113	7	150	300	6	6Ø	10 x10	.08	22	50	85	160	120	0.5	5.7	0.6	2.0	1, 2
SV	A118	A118	TEACHER WK RM ALL 8	7	100	165	6	6Ø	10 x10	.08	22	50	85	160	120	0.5	3.8	0.6	2.0	1, 2
SV	A122	A122	LIB STACK A122	9	600	1475	12	12Ø	18 x 15	.05	20	50	85	160	120	1.2	22.7	0.6	2.0	1, 2
SV	A125	A143B	OFFICE A125	9	140	325	6	6Ø	10 x10	.08	22	50	85	160	120	0.5	5.3	0.6	2.0	1, 2
SV	A126	A126	LIB CONF A126	9	150	400	6	6Ø	10 x10	.08	22	50	85	160	120	0.5	5.7	0.6	2.0	1, 2
SV	A131	A131	DININ A131	7	550	1000	10	10Ø	14 x 12	.05	20	50	85	160	120	0.7	13.0	0.6	2.0	1, 2
SV	A133A	A133A	FACULTY LOUNGE A133A	7	300	800	10	10Ø	14 x 12	.05	20	50	85	160	120	0.6	11.4	0.6	2.0	1, 2
SV	A135	A135A	TECH HUB	7	85	275	6	6Ø	10 x10	.08	22	50	85	160	120	0.5	3.3	0.6	2.0	1, 2
SV	A160	A160	SM CONF A160	9	120	380	6	6Ø	10 x10	.08	22	50	85	160	120	0.5	4.6	0.6	2.0	1, 2
SV	A201	A201	SPEC EO A201	9	175	430	8	8Ø	12 x 10	.04	20	50	85	160	120	0.5	6.8	0.6	2.0	1, 2
SV	A203	A203	OFFICE A202, ASST DIR A203	9	110	275	6	6Ø	10 x10	.08	22	50	85	160	120	0.5	4.1	0.6	2.0	1, 2
SV	A204	A204	DIR OFFICE A204	9	100	225	6	6Ø	10 x10	.08	22	50	85	160	120	0.5	3.8	0.6	2.0	1, 2
SV	A205	A205	CONF RM A205	9	150	300	6	6Ø	10 x10	.08	22	50	85	160	120	0.5	5.7	0.6	2.0	1, 2
SV	A206	A206	OFFICE A206 & A207	9	150	270	6	6Ø	10 x10	.08	22	50	85	160	120	0.5	5.7	0.6	2.0	1, 2
SV	A210	A210	GUIDENCE RECP A210	7	200	300	6	6Ø	10 x10	.08	22	50	85	160	120	0.5	7.6	0.6	2.0	1, 2
SV	A211D	A211F	GUID OFF A211F, A211B, A211C, AT RISK A211B	7	275	575	8	8Ø	12 x 10	.04	20	50	85	160	120	0.6	10.6	0.6	2.0	1, 2
SV	A211H	A211H	DIR OFF A211H	7	100	200	6	6Ø	10 x10	.08	22	50	85	160	120	0.5	3.8	0.6	2.0	1, 2
SV	A212	A212	SM MEETING A212, AT RISK A211A	7	105	340	6	6Ø	10 x10	.08	22	50	85	160	120	0.5	3.8	0.6	2.0	1, 2
SV	A218	A218	SHARED CONF A218		180	380	6	6Ø	10 x10	.08	22	50	85	160	120	0.5	6.8	0.6	2.0	1, 2
SV	A222	A222	ELO A222, VIRTUAL PATH A227, PSY OFF A225	9	225	450	8	8Ø	12 x 10	.04	20	50	85	160	120	0.5	8.5	0.6	2.0	1, 2
SV	A224	A224	LEARNING CENTER A224	9	350	875	10	10Ø	14 x 12	.05	20	50	85	160	120	0.7	13.3	0.6	2.0	1, 2
SV	A228	A228	FACULTY TRAINING A228	9	280	700	10	10Ø	14 x 12	.05	20	50	85	160	120	0.6	10.6	0.6	2.0	1, 2
SV	A231	A231	CAREER PLANNING	7	600	1480	12	12Ø	18 x 15	.05	20	50	85	160	120	1.2	22.7	0.6	2.0	1, 2
SV	A234	A231	OFFICE A234, A233, A232	7	225	520	8	8Ø	12 x 10	.04	20	50	85	160	120	0.5	8.5	0.6	2.0	1, 2
SV	A237A	A237A	STUD WK STATIONS A237A	7	225	550	8	8Ø	12 x 10	.04	20	50	85	160	120	0.5	8.5	0.6	2.0	1, 2
SV	A238	A236	VP DISIPLINE A236 & A238	7	140	300	6	6Ø	10 x10	.08	22	50	85	160	120	0.5	5.3	0.6	2.0	1, 2
SV	A239	A239	LG MEETING A239	7	225	450	8	8Ø	12 x 10	.04	20	50	85	160	120	0.5	8.5	0.6	2.0	1, 2
SV	A240	A244	SPECIAL EDU COMMON A240	9	350	800	10	10Ø	14 x 12	.05	20	50	85	160	120	0.7	13.3	0.6	2.0	1, 2
SV	A241	A241	RESOURCE RM A241	9	350	800	10	10Ø	14 x 12	.05	20	50	85	160	120	0.7	13.3	0.6	2.0	1, 2
SV	A242	A228	RESOURCE RM A242	9	350	800	10	10Ø	14 x 12	.05	20	50	85	160	120	0.7	13.3	0.6	2.0	1, 2
SV	A243	A243	RESOURCE RM A243	9	350	800	10	10Ø	14 x 12	.05	20	50	85	160	120	0.7	13.3	0.6	2.0	1, 2
SV	A244	A244	ACADEMIC SUPP A244	9	100	275	6	6Ø	10 x10	.08	22	50	85	160	120	0.5	3.8	0.6	2.0	1, 2
SV	A245	A245	EMOT DISABILTY	9	350	800	10	10Ø	14 x 12	.05	20	50	85	160	120	0.7	13.3	0.6	2.0	1, 2
SV	B101	B101	VIDEO PROD LAB B101	5	400	1000	10	10Ø	14 x 12	.05	20	50	85	160	120	0.8	15.2	0.6	2.0	1, 2
SV	B103	B103	CONTROL RM B103	5	75	250	6	6Ø	10 x10	.08	22	50	85	160	120	0.5	4.1	0.6	2.0	1, 2
SV	B103A	B115	EDITING B103A	5	50	100	6	6Ø	10 x10	.08	22	50	85	160	120	0.5	2.7	0.6	2.0	1, 2
SV	B105	B105A	VOICE PROD B105	5	400	1050	10	10Ø	14 x 12	.05	20	50	85	160	120	0.8	15.2	0.6	2.0	1, 2
SV	B107	B101	OFFICE B107, B102 & STOR B101B	5	150	300	6	6Ø	10 x10	.08	22	50	85	160	120	0.5	5.7	0.6	2.0	1, 2
SV	B112	B112	GRAPHICS/COMM/DIGITAL DESIGN B112	5	800	1800	14	14Ø	20 x 18	.08	20	50	85	160	120	1.5	30.3	0.6	2.0	1, 2
SV	B112A	B112A	PRINT RM B112A	5	200	500	8	8Ø	12 x 10	.04	20	50	85	160	120	0.5	7.6	0.6	2.0	1, 2
SV	B113	B115	OFFICE B113 & SSTOR B115	5	100	200	6	6Ø	10 x10	.08	22	50	85	160	120	0.5	3.8	0.6	2.0	1, 2
SV	B114	B115	LIGHTING STUDIO B114	5	100	200	6	6Ø	10 x10	.08	22	50	85	160	120	0.5	3.8	0.6	2.0	1, 2
SV	B143A	B143A	CLASSROOM B143A	5	450	1200	12	12Ø	18 x 15	.05	20	50	90	160	120	1.0	19.5	0.6	2.0	1, 2
SV	B143B	B143B	CLASSROOM B134B	5	450	1200	12	12Ø	18 x 15	.05	20	50	90	160	120	1.0	19.5	0.6	2.0	1, 2
SV	B203	B211	LL STUD ASST. B202, OFF. B203, LL ENG. B201	5	300	450	8	8Ø	12 x 10	.04	20	50	85	160	120	0.6	11.4	0.6	2.0	1, 2
SV	B204	B204	LL CONF B204	5	150	300	6	6Ø	10 x10	.08	22	50		160	120	0.5	5.7	0.6	2.0	1, 2
SV	B210	B210	AUTISM COMM B210	5	160	400	6	6Ø	10 x10	.08	22	50		160	120	0.5	5.9	0.6	2.0	1, 2
SV	B211	B211	CAREER EXP B211	5	160	400	6	6Ø	10 x10	.08	22	50		160	120	0.5	5.9	0.6	2.0	1, 2
SV	B212	B212	GROSS M	5	210	520	8	8Ø	12 x 10	.04	20	50		160	120	0.5	7.6	0.6	2.0	1, 2
SV	B214	B214	DEV. INSTRUCTION	5	350	800	10	10Ø	14 x 12	.05	20	50		160	120	0.7	13.3	0.6	2.0	1, 2
SV	B215	B215B	LS APARTMENT B215	5	240	600	10	10Ø	14 x 12	.05	20	50		160	120	0.6	10.6	0.6	2.0	1, 2
SV	B216	B210	SPEECH THERAPY	5	100	200	6	6Ø	10 x10	.08	22	50		160	120	0.5	3.8	0.6	2.0	1, 2
SV	D105B	D105B	NURSE COMMON AREA D105B	7	300	835	10	10Ø	14 x 12	.05	20	50		160	120	0.6	11.4	0.6	2.0	1, 2
SV	D106	D107	CONSULT/DR OFFICE D106	7	100	150	6	6Ø	10 x10	.08	22	50		160	120	0.5	3.8	0.6	2.0	1, 2
SV	D111	D111	OFFICE D111	7	150	250	6	6Ø	10 x10	.08	22	50		160	120	0.5	5.7	0.6	2.0	1, 2
SV	D123A	D123A	CULINARY ARTS D123A	8	1200	1200	12	12Ø	18 x 15	.05	20	50		160	120	2.3	45.4	0.6	2.0	1, 2 NOTE: SV-D123A - LOW EVENT MIN 400CFM
SV	D123a	D123	BAKE LAB D123	8	1400	1400	12	12Ø	18 x 15	.05	20	50		160	120	2.7	52.9	0.6	2.0	1, 2 NOTE: SV-D123b - LOW EVENT MIN 450CFM
SV	D123b	D123	BAKE LAB D123	8	1050	1050	10	10Ø	14 x 12	.05	20	50		160	120	2.0	39.7	0.6	2.0	1, 2 NOTE: SV-D123a - LOW EVENT MIN 350CFM
SV	D123E	D123A	CULINARY ARTS D123A	8	1400	1400	12	12Ø	18 x 15	.05	20	50		160	120	2.7	52.9	0.6	2.0	1, 2 NOTE: SV-D123E - LOW EVENT MIN 450CFM
SV	D123F	D123F	WARE WASH D123F	8	1200	1200	12	12Ø	18 x 15	.05	20	50		160	120	2.3	45.4	0.6	2.0	1, 2 NOTE: SV-D123F - LOW EVENT MIN 400CFM
SV	D125	D123A	OFFICE D123, LOCKER D127 & D129	8	100	150	6	6Ø	10 x10	.08	22	50		160	120	0.5	3.8	0.6	2.0	1, 2
SV	D151	D123A	DINING D151	8	2000	2000	14	14Ø	20 x 18	.08	20	50		160	120	3.8	75.6	0.6	2.0	1, 2 NOTE: SV-D151 - LOW EVENT MIN 600CFM
SV	D151A	D151A	SALE D151A	8	1000	1000	10	10Ø	14 x 12	.05	20	50		160	120	1.9	37.8	0.6	2.0	1, 2 NOTE: SV-D151A - LOW EVENT MIN 600CFM
SV	D210	D210	PRINT LAB D210	7	175	425	8	8Ø	12 x 10	.04	20	50		160	120	0.5	6.8	0.6	2.0	1, 2
SV	D211	D211	OFF D211, WK OFFICE A2116 & A211E	7	250	450	8	8Ø	12 x 10	.04	20	50		160	120	0.5	9.5	0.6	2.0	1, 2
SV	D212	D212	CPU SYSTEMS D212		500	1200	12	12Ø	18 x 15	.05	20	50		160	120	1.0	19.0	0.6	2.0	1, 2
SV	D212A	D212A	SERVER INST. D212A	7	100	210	6	6Ø	10 x10	.08	22	50		160	120	0.5	3.8	0.6	2.0	1, 2
SV	D214	D214	OFFICE 214		75	125	6	6Ø	10 x10	.08	22	50		160	120	0.5	3.3	0.6	2.0	1, 2

1. SELECTION BASED OIENVIRO-TEC.
2. MIN. SP IS THE PRESSURE DIFFERENCE BETWEEN THE TERMINAL INLET AND DISCHARGE WITH THE DAMPER OPEN.

MECHANICAL RADIANT PANEL SCHEDULE - RP

TAG	NUMBER	TUBE SIZE	# TUBES	TUBE TYPE	PANEL WIDTH	TYPE	AVERAGE HOT WATER TEMP (F)	CAPACITY BTUH/LF	REMARKS
RP1	1	1/2"	4	COPPER	24"	EXTRUDED ALUMINUM	145	265	1, 2, 3, 4, 5, MODEL AR-X EXTRUDED PANEL

1. SELECTION BASED ON AIRTITE OR EQUIVELANT BY AEROTECH.
2. PROVIDE MANUFACTURER'S TRIM PIECES AS REQUIRED, AND INSTALL RADIANT PANELS AS RECOMMENDED BY MANUFACTURER.
3. REFER TO EQUIPMENT INSULATION SPECIFICATION FOR INSULATION MATERIAL ABOVE PANEL (1" FIBERGALSS DUCT LINER).
4. COORDINATE MOUNTING TYPES WITH ARCHITECTURAL CEILING PLANS. PROVIDE SURFACE MOUNTED UNITS WHERE APPLICABLE.
5. LENGTHS INDICATED ARE NOMINAL. FIELD VERIFY FIT PRIOR TO RELEASE.

MECHANICAL FINTUBE RADIATION SCHEDULE - FT

TAG	NUMBER	ELEMENT					ENCLOSURE			AVERAGE HOT WATER TEMP (F)	CAPACITY BTUH/LF	REMARKS
		TUBE SIZE	TUBE TYPE	ROWS	FIN SIZE	FIN TYPE	TYPE	SIZE	MTG HGT (BOTTOM)			
FT1		3/4"	COPPER	1	4-1/4" x 3-5/8"	ALUMINUM	SLOPE TOP	5-1/4" x 14"H	4"	145	780	1, MODEL LVS VC3/4-435
FT2		1"	COPPER	1	4-1/4"x4-1/4"	ALUMINUM	TROUGH	9" X 9-1/2"H	-6"	145	660	1, MODEL TR - TROUGH
FT3		1"	COPPER	1	4-1/4"x4-1/4"	ALUMINUM	"LVX" EXPANDED METAL	5" x 6"H	6"	145	725	1, MODEL LVX VC45

1. SELECTION BASED ON VULCAN.

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Sanford School Department and State of Maine Department of Education

SANFORD HIGH SCHOOL and TECHNICAL CENTER

SANFORD, ME 04073

NO.	DESCRIPTION	DATE

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FOR ADDITIONAL INFORMATION, REFER TO PROJECT MANUAL.

CONTENT:
MECHANICAL SCHEDULES

DRAWN BY: S.DANBY
PROJECT NO: 12-067-00
DATE: 02/11/2016
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Project Phase
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MECHANICAL DIFFUSER, REGISTER & GRILLE SCHEDULE - SD, SP, EP, ER, RR & TG

SYMBOL	UNIT SIZE W x H	NECK SIZE W x H	CFM RANGE	TYPE	AIR PATTERN	REMARKS
SD1	12 x 12	6 x 6	0-125	RC40	4 WAY	1, 2, 4
SD2	12 x 12	6 x 6	0-125	RC36	3 WAY	1, 2, 4 75% AIR FLOW 1 SIDE/ 12.5% AIR FLOW 2 SIDE
SD3	12 x 12	6 x 6	0-125	RC30	3 WAY	1, 2, 4
SD4	12 x 12	6 x 6	0-125	RC20	2 WAY	1, 2, 4
SD5	12 x 12	6 x 6	0-125	RC22	2 WAY CORNER	1, 2, 4
SD6	12 x 12	6 x 6	0-125	RC10	1 WAY	1, 2, 4
SD7	24 x 24	9 x 9	126-250	RC40	4 WAY	1, 2, 5
SD8	24 x 24	9 x 9	126-250	RC36	3 WAY	1, 2, 5 75% AIR FLOW 1 SIDE/ 12.5% AIR FLOW 2 SIDE
SD9	24 x 24	9 x 9	126-250	RC30	3 WAY	1, 2, 5
SD10	24 x 24	9 x 9	126-250	RC20	2 WAY	1, 2, 5
SD11	24 x 24	9 x 9	126-250	RC22	2 WAY CORNER	1, 2, 5
SD12	24 x 24	9 x 9	126-250	RC10	1 WAY	1, 2, 5
SD13	24 x 24	12 x 12	251-480	RC40	4 WAY	1, 2, 5
SD14	24 x 24	12 x 12	251-480	RC36	3 WAY	1, 2, 5 75% AIR FLOW 1 SIDE/ 12.5% AIR FLOW 2 SIDE
SD15	24 x 24	12 x 12	251-480	RC30	3 WAY	1, 2, 5
SD16	24 x 24	12 x 12	251-480	RC20	2 WAY	1, 2, 5
SD17	24 x 24	12 x 12	251-480	RC22	2 WAY CORNER	1, 2, 5
SD18	24 x 24	12 x 12	251-480	RC10	1 WAY	1, 2, 5
SD19	24 x 24	15 x 15	481-750	RC40	4 WAY	1, 2, 5
SD20	24 x 24	15 x 15	481-750	RC36	3 WAY	1, 2, 5 75% AIR FLOW 1 SIDE/ 12.5% AIR FLOW 2 SIDE
SD21	24 x 24	15 x 15	481-750	RC30	3 WAY	1, 2, 5
SD22	24 x 24	15 x 15	481-750	RC20	2 WAY	1, 2, 5
SD23	24 x 24	15 x 15	481-750	RC22	2 WAY CORNER	1, 2, 5
SD24	24 x 24	15 x 15	481-750	RC10	1 WAY	1, 2, 5
SD25	12 x 12	6 x 6	0-125	ARC40	4 WAY	1, 2, 3, 4
SD26	12 x 12	6 x 6	0-125	ARC30	3 WAY	1, 2, 3, 4
SD27	24 x 24	9 x 9	126-250	ARC40	4 WAY	1, 2, 3, 5
SD28	24 x 24	9 x 9	126-250	ARC20	2 WAY	1, 2, 3, 5
SD29	24 x 24	12 x 12	251-480	ARC40	4 WAY	1, 2, 3, 5
SD30	24 x 24	12 x 12	251-480	ARC30	3 WAY	1, 2, 3, 5
SD31	24 x 24	15 x 15	481-750	ARC36	3 WAY	1, 2, 3, 5 75% AIR FLOW 1 SIDE/ 12.5% AIR FLOW 2 SIDE
SD32	14 x 62	12 x 60	1750	A110D	SIDEWALL	1, 2, 14 MAIN COMMONS 1ST & 2ND
SD33	18-1/4"Ø	10"Ø	300	P3-10	360°	1, 2
SD34	22"Ø	12"Ø	350-400	P3-12	360°	1, 2
SD35	26 x 8	24 x 6	330	4000-A1	SIDEWALL 15°	1, 2, 7, 9 B142 & B144
SD36	26 x 10	24 x 8	250-300	4000-D3	SIDEWALL 30°	1, 2, 7, 9 D120A & E120A
SD37	8"Ø	6"Ø	75	AV54R-06	SIDEWALL	1, 2
SD38	24 x 24	12"Ø	350-400	PRLT	PERFORATED	1, 2, 5
SD39	24 x 24	14"Ø	500	PRLT	PERFORATED	1, 2, 5
SD40	24 x 24	16"Ø	665	PRLT	PERFORATED	1, 2, 5
SD41	8-3/16H x 14-2/3L	6H x 12L	200-270	MTRJ-U	ADJUSTABLE	1, 2, 5
SD42	8-3/16H x 20-2/3L	6H x 18L	425-500	MTRJ-U	ADJUSTABLE	1, 2
SP1	5'-0"L	44"Ø	5000	PERFORATED	360°	6 MAIN AUDITORIUM - 2ND LEVEL A281 / BACK STAGE AUDITORIUM
SP2	11'-0"L	32"Ø	N/A	PERFORATED	360°	6 CTE EXPLORATION STUDIO C117
SP3	16'-6"L	46"Ø	N/A	PERFORATED	360°	6 BUILDING TRADES C127
SP4	30'-0"L	72"x36" ⬭	N/A	PERFORATED	360°	6 WELDING FABRICATION C138
SP5	2'-0"L	8"Ø	200	PERFORATED	360°	6 BUILDING STORAGE C209 / EQUIP. STORAGE C207
SP6	8'-6"L	30"Ø	3650	PERFORATED	360°	6 PRECISION MANUFACTURING C134
LD1	120-3/4" x 4-3/8"	120" x 3-9/16"	500	EHPFS-6-10	1 WAY	1, 2,10,13
LD2	98 x 12	96 x 10	1200	4000-A0	SIDEWALL 0°	1, 2, 7, 8, 9, 10 MAIN GYMNASIUM F102
LD3	144 x 10	144 x 8	1200	4000-A1	SIDEWALL 15°	1, 2, 7, 8, 9, 10 PRACTICE GYMNASIUM F122
DD1	26 x 98	24 x 96	800	DF-1R	DISCPLACEMENT	1, 2, 11, 12, 14 DINING A151
TG1	24 x 24	12 x 12	200-300	T70D	35°	1, 2, 4
TG2	16 x 12	14 x 10	500	T70D	35°	1, 2
TG3	74 x 26	72 x 24	3000	4000-C1	SIDEWALL 15°	1, 2, 7, 8, 10
RG1	10 x 10	8 x 8	0-150	T70D	35°	1, 2, 4
RG2	24 x 24	10 x 10	151-300	T70D	35°	1, 2, 5
RG3	24 x 24	12 x 12	301-500	T70D	35°	1, 2, 5
RG4	24 x 24	14 x 14	501-700	T70D	35°	1, 2, 5
RG5	24 x 24	16 x 16	701-950	T70D	35°	1, 2, 5
RG6	24 x 24	18 x 18	951-1150	T70D	35°	1, 2, 5
RG7	43 x 123	40 x 120	5000	ESJ-401	LOUVERED	17, 18 AUDITORIUM STAGE BACK A183
RG8	74 x 26	72 x 24	3000	LD-15-12	SIDEWALL 15°	2, 15, 16 MAIN GYMNASIUM F102
RG9	74 x 38	72 x 36	4000	LD-15-12	SIDEWALL 15°	2, 15, 16 PRACTICE GYMNASIUM F122
RG10	26 x 50	24 x 48	1575	4000-D3	SIDEWALL 30°	1, 2, 7, 8, 10 LIBRARY STACK
LR1	190 x 8	188 x 6	975	4000-D3	SIDEWALL 30°	1, 2, 7, 8, 10 VIDEO PRODUCTION STUDIO
LR2	98 x 12	96 x 10	1200	4000-A0	SIDEWALL 0°	1, 2, 7, 8, 10 MAIN ENTRY 2ND FLOOR
EG1	10 x 10	8 x 8	0-150	T70D	35°	1, 2, 4
EG2	24 x 24	10 x 10	151-300	T70D	35°	1, 2, 5
EG3	24 x 24	12 x 12	301-500	T70D	35°	1, 2, 5
EG4	24 x 24	14 x 14	501-700	T70D	35°	1, 2, 5
EG5	24 x 24	16 x 16	701-950	T70D	35°	1, 2 ,5
EG6	24 x 24	18 x 18	951-1150	T70D	35°	1, 2, 5
EG7	24 x 24	22 x 22	1151-1750	T70D	35°	1, 2, 5
EG8	10 x 10	8 x 8	0-150	A70D	35°	1, 2, 3, 4
EG9	24 x 24	14 x 14	501-700	A70D	35°	1, 2, 3, 5
EG10	36 x 16	36 x 14	1000-1200	T115	38°	1, 2 C101/ C105/ C113
EP1	14'-0"L	26"Ø	3000	PERFORATED	360°	6 FIRE-DRILL AREA E242

NOTE: VERIFY ALL FINISHED CEILING CONDITIONS WITH ARCHITECTS PLANS TO ENSURE THAT APPROPRIATE MOUNTING FRAMES/ BRACKETS TYPES ARE SUBMITTED AS REQUIRED.

1. SELECTION BASED ON TUTTLE & BAILEY
2. COLOR/FINISH TO BE SELECTED BY ARCHITECT.
3. DIFFUSER/REGISTER TO BE CONSTRUCTED OF ALUMINUM.
4. TO BE CUT IN STYLE.
5. TO BE BE LAY IN STYLE.
6. SELECTION BASED ON UNITED MCGILL.
7. WITH MARGIN STYLE 100 (1").
8. WITH CORE REINFORCE (R)
9. WITH STANDARD UNIT CORE (0).
10. PROVIDE WITH MANUFACTURER SPLINE KIT.
11. SELECTION BASED ON PRICE.
12. WITH MANUFACTURERS FLANGE/FRAME.
13. USE WITH DP SERIES DISTRIBUTION PLENUMS.
14. REFER TO ARCHITECTURAL ELEVATION & SECTIONS FOR MOUNTING HEIGHTS.
15. SELECTION BASED ON RELIABLE.
16. PROVIDE WITH 1" FRAME, WITH COUNTERSUNK SCREWHOLES.
17. SELECTION BASED ON GREENHECK.
18. COLOR TO MATCH SURROUNDING WALL, COORDINATE FINISH WITH MANUFACTURE.

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Sanford School Department and
State of Maine Department of
Education

SANFORD HIGH SCHOOL and TECHNICAL CENTER

SANFORD, ME 04073

NO.	DESCRIPTION	DATE

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CONTENT:
MECHANICAL SCHEDULES

DRAWN BY: S. DANBY
PROJECT NO: 12-067-00
DATE: 02/11/2016
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M5.04

Project Phase
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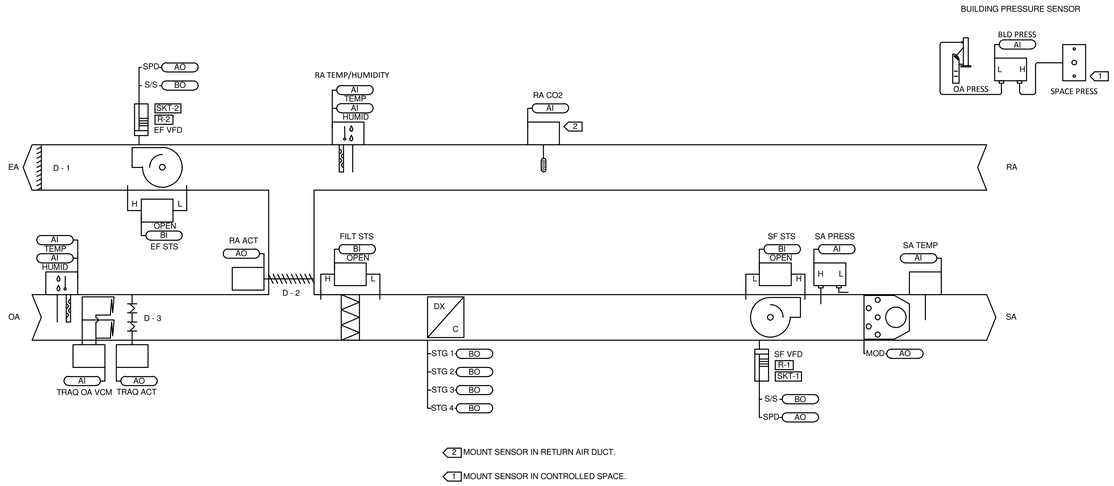
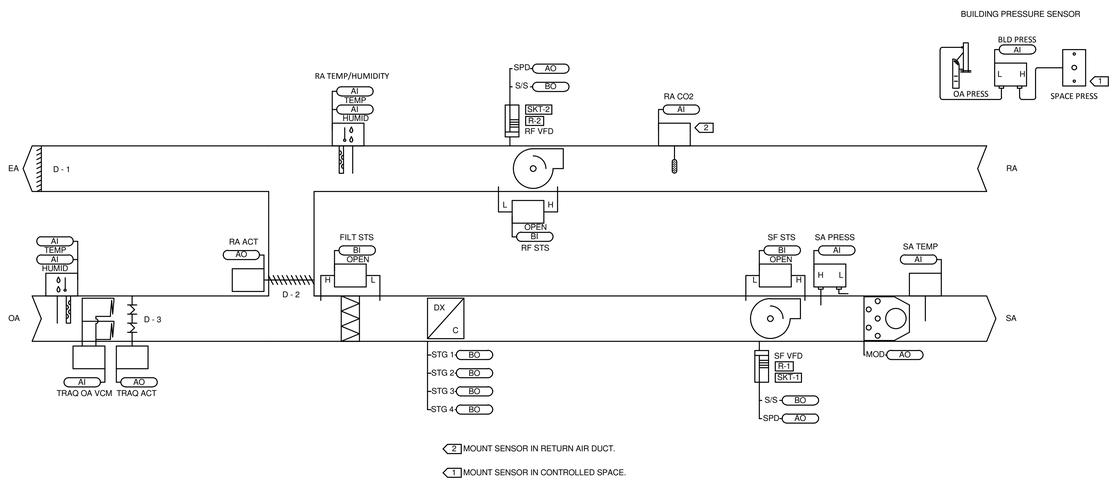
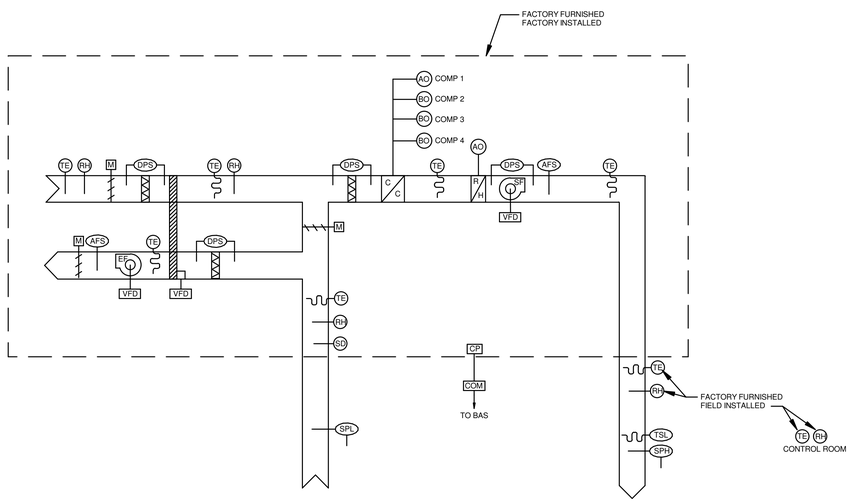


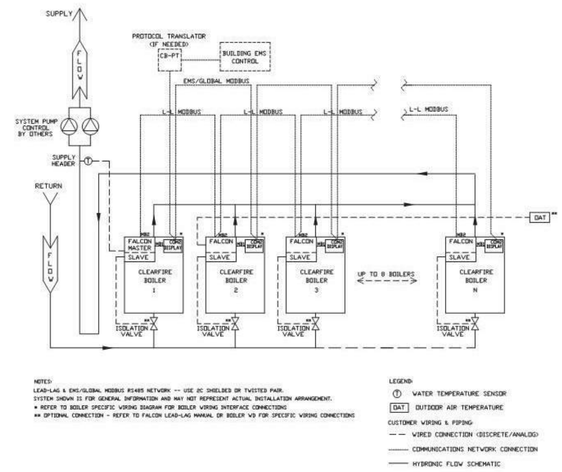
AHU SYSTEM CONTROL DIAGRAM (1, 2, 3, 4, & 6)



AHU SYSTEM CONTROL DIAGRAM (5, 7, 8, & 9)



DEHUMIDIFICATION ROOFTOP UNIT CONTROL DIAGRAM (DHU-1 THRU 12)



BOILER CONTROLS SCHEMATIC

BUILDING AUTOMATION SYSTEM LEGEND

- FAN
- PARALLEL BLADE DAMPER WITH MODULATING ELECTRIC ACTUATOR
- PARALLEL BLADE DAMPER WITH TWO-POSITION ELECTRIC ACTUATOR WITH END SWITCH
- OPPOSED BLADE DAMPER WITH MODULATING ELECTRIC ACTUATOR
- OPPOSED BLADE DAMPER WITH TWO-POSITION ELECTRIC ACTUATOR WITH END SWITCH
- SINGLE BLADE CONTROL DAMPER
- FSD — FIRE SMOKE DAMPER WITH OPEN/CLOSE INDICATION
- TWO-WAY CONTROL VALVE WITH MODULATING ELECTRIC ACTUATOR
- TWO-WAY CONTROL VALVE WITH TWO-POSITION ELECTRIC ACTUATOR WITH END SWITCH
- THREE-WAY CONTROL VALVE WITH MODULATING ELECTRIC ACTUATOR
- THREE-WAY CONTROL VALVE WITH TWO-POSITION ELECTRIC ACTUATOR WITH END SWITCH
- FILTER
- HC — HEATING COIL
- CC — COOLING COIL
- RH — REHEAT COIL
- SENSOR/TRANSMITTER WITH AVERAGING ELEMENT
- SENSOR/TRANSMITTER WITH PROBE ELEMENT AND IMMERSION WELL FOR PIPING AS APPLICABLE
- OR — DDC MONITORING/CONTROL HARDWARE AND WIRING BY BAS CONTRACTOR UNLESS OTHERWISE NOTED
- LOCAL MONITORING/CONTROL HARDWARE AND WIRING BY BAS CONTRACTOR UNLESS OTHERWISE NOTED
- MONITORING/CONTROL HARDWARE BY OTHER TRADES AND WIRING BY BAS CONTRACTOR UNLESS OTHERWISE NOTED
- BAS — CONTROL PANEL BY BAS CONTRACTOR
- COM — COMMUNICATION INTERFACE AND WIRING BY BAS CONTRACTOR
- CP — CONTROL PANEL BY EQUIPMENT MANUFACTURER
- VFD — VARIABLE FREQUENCY DRIVE
- MOTOR STARTER

BUILDING AUTOMATION SYSTEM ABBREVIATIONS

AI	ANALOG INPUT
ALM	ALARM/FAULT
AMP	AMPERAGE (ANALOG INPUT)
AFS	AIRFLOW MEASUREMENT STATION
AO	ANALOG OUTPUT
BAS	BUILDING AUTOMATION SYSTEM
BI	BINARY INPUT
BO	BINARY OUTPUT
CM	CONTROL MODULE (FIRE ALARM SYSTEM)
CO	CARBON MONOXIDE TRANSMITTER
CO2	CARBON DIOXIDE TRANSMITTER
COM	COMMUNICATION INTERFACE
CS	CURRENT SWITCH WITH ADJUSTABLE TRIP
CT	CURRENT TRANSDUCER (TRANSMITTER)
DA	DISCHARGE AIR
DEW	DEWPOINT TRANSMITTER
DPS	DIFFERENTIAL PRESSURE SWITCH WITH ADJUSTABLE TRIP AND MANUAL RESET
DPT	DIFFERENTIAL PRESSURE TRANSDUCER (TRANSMITTER)
EA	EXHAUST AIR
ES	END SWITCH
FAS	FIRE ALARM SYSTEM
FS	FLOW SWITCH WITH ADJUSTABLE TRIP
LDS	LEAK DETECTION SWITCH
LS	LEVEL SWITCH
LT	LEVEL TRANSMITTER
NC	NORMALLY CLOSED
NO	NORMALLY OPEN
OA	OUTSIDE AIR
OCC	OCCUPANCY SENSOR
PC	POSITION CONTROL (ANALOG OUTPUT)
PI	POSITION INDICATION (ANALOG INPUT)
PUP	PICKUP PORT (PRESSURE)
RA	RETURN AIR
REF	REFRIGERANT DETECTOR
RF	RETURN FAN
RH	RELATIVE HUMIDITY TRANSMITTER
RLY	RELAY
RS	RUN STATUS (BINARY INPUT)
S	ROOM TEMPERATURE SENSOR
SA	SUPPLY AIR
SD	SMOKE DETECTOR
SF	SUPPLY FAN
SPC	SPEED CONTROL (ANALOG OUTPUT)
SPI	SPEED INDICATION (ANALOG INPUT)
SPT	STATIC PRESSURE TRANSDUCER (TRANSMITTER)
SPH	STATIC PRESSURE HIGH SWITCH WITH ADJUSTABLE TRIP AND MANUAL RESET
SPL	STATIC PRESSURE LOW SWITCH WITH ADJUSTABLE TRIP AND MANUAL RESET
SS	START/STOP (BINARY OUTPUT)
SUN	SUN SHIELD
T	THERMOSTAT
TE	TEMPERATURE ELEMENT (SENSOR)
TSH	TEMPERATURE SWITCH HIGH WITH ADJUSTABLE TRIP AND MANUAL RESET
TSL	TEMPERATURE SWITCH LOW WITH ADJUSTABLE TRIP AND MANUAL RESET
VFD	VARIABLE FREQUENCY DRIVE
WFS	WATERFLOW MEASUREMENT STATION

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Sanford School Department and State of Maine Department of Education

SANFORD HIGH SCHOOL and TECHNICAL CENTER

SANFORD, ME 04073

NO.	DESCRIPTION	DATE

CONTENT: MECHANICAL CONTROLS

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PROJECT NO:	12-067-00
DATE:	02/11/2016
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SCALE:	AS NOTED

M6.01

Project Phase: BID DOCUMENTS

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PLUMBING LEGEND

(NAME)	NEW PIPING (BOLD)
(NAME)	EXISTING PIPING (LIGHT)
	COLD WATER
CW	COLD WATER - BELOW GRADE
HW	HOT WATER - BELOW GRADE
	HOT WATER (TEMP=110 DEG.-130DEG. F)
	HOT WATER RETURN (TEMP=110 DEG.-130DEG. F)
140	140 DEGREE HOT WATER
140R	140 DEGREE HOT WATER RETURN
	LAB HOT WATER (PROVIDE WITH HEAT TRACE AND INSULATION)
TPD	TEPID WATER PIPING
X	SANITARY DRAINAGE - ABOVE GRADE
X	SANITARY DRAINAGE - BELOW GRADE
KW	KITCHEN WASTE - BELOW GRADE
OX	OIL WASTE - BELOW GRADE
XX	ROOF DRAINAGE - ABOVE GRADE
XX	ROOF DRAINAGE - BELOW GRADE
PD	PUMPED DISCHARGE
V	VENT PIPING
LW	LAB/ACID WASTE PIPING
LV	LAB/ACID VENT PIPING
GWV	GREASE WASTE VENT
OV	OIL VENT
G	NATURAL GAS PIPING - ABOVE GRADE
G	NATURAL GAS PIPING - BELOW GRADE
AR	ARGON GAS PIPING - ABOVE GRADE
C25	C25 GAS PIPING - ABOVE GRADE
A	COMPRESSED AIR PIPING
	BALL VALVE
	BRANCH OUT OF TOP OF MAIN
	BRANCH OUT OF BOTTOM OF MAIN
	CAP
	CHECK VALVE
	CONCENTRIC REDUCER
CO	CLEANOUT
FCO	FLOOR CLEANOUT
GCO	GRADE CLEANOUT
	FLOOR DRAINS
	GATE VALVE
	GAS PLUG VALVE
	METERING BALANCING VALVE
	NON-FREEZE WALL HYDRANT OR HOSE BIBB
	PIPE CONTINUES
	PIPE RISING
	PIPE TEE TURNED DOWN
	PIPE TEE TURNED UP
	PIPE TEE TURNING DOWN
	PRESSURE REDUCING VALVE
	PRESSURE GAUGE
	THERMOMETER
	CONTROL VALVE
	REDUCED PRESSURE BACKFLOW PREVENTER
	DOUBLE CHECK BACKFLOW PREVENTER
	STRAINER
	THERMOSTATIC MIXING VALVE
	TEMPERATURE & PRESSURE RELIEF VALVE
	UNION
	RISER DRAIN
WCO	WALL CLEANOUT
	WATER HAMMER ARRESTER
	ROOF DRAIN
P	PUMP
M	METER
XX XX	DESIGNATES EQUIPMENT WITH POWER
XX XX	DESIGNATES EQUIPMENT WITHOUT POWER
TP	LINE PRESSURE TRAP PRIMER
	EXPANSION JOINT
	PIPE WITH HEAT TRACE AND INSULATION
	PIPING LOCATED THROUGH STRUCTURAL CORE

PLUMBING ABBREVIATIONS

A	COMPRESSED AIR
AC	AIR COMPRESSOR
ADA	AMERICANS WITH DISABILITIES ACT
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AP	ACCESS PANEL
AV	ACID VENT
AVTR	ACID VENT THROUGH ROOF
AW	ACID WASTE
BFF	BELOW FINISHED FLOOR
BLDG	BUILDING
CFI	CONTRACTOR FURNISHED AND INSTALLED
CO	CLEANOUT
COMP'D	COMPRESSED
CONN	CONNECTION
CONTR	CONTRACTOR
CW	COLD WATER
DF	DRINKING FOUNTAIN
DN	DOWN
DS	DOWN SPOUT
DWG	DRAWING
DWH	DOMESTIC WATER HEATER
EA	EACH
ELEV	ELEVATIONS
ES	EMERGENCY SHOWER
ETP	ELECTRONIC TRAP PRIMER
E.W.	EACH WAY
FCO	FLOOR CLEANOUT
FD	FLOOR DRAIN
F.F.	FINISH FLOOR
FPHB	FROST PROOF HOSE BIBB
FS	FLOOR SINK
FT	FEET
FW	FINSHED WALL
G	GAS
GC	GENERAL CONTRACTOR
GCO	GRADE CLEANOUT
GPM	GALLONS PER MINUTE
GW	GREASE WASTE
GWV	GREASE WASTE VENT
GWVTR	GREASE WASTE VENT THROUGH ROOF
HB	HOSE BIBB
HP	HORSEPOWER
HW	HOT WATER
HWR	HOT WATER RETURN
INV	INVERT
IW	INDIRECT WASTE
KC	KITCHEN CONSULTANT
LAV	LAVATORY
LCW	LAB COLD WATER
LHW	LAB HOT WATER
LV	LAB VENT
LVTR	LAB VENT THROUGH ROOF
MECH	MECHANICAL
MFGR	MANUFACTURER
MTG HT	MOUNTING HEIGHT
N.C.	NORMALLY CLOSED
N.O.	NORMALLY OPEN
O.C.	ON CENTER
OD	OVERFLOW DRAIN
OFCI	OWNER FURNISHED CONTRACTOR INSTALLED
OFI	OWNER FURNISHED AND INSTALLED
ORL	OVERFLOW RAIN LEADER
PART.	PARTIAL
PD	PUMPED DISCHARGE
PDI	PLUMBING DRAINAGE INSTITUTE
PF	PLUMBING FIXTURE
PW	PUMPED WASTE
RD	ROOF DRAIN
RL	RAIN LEADER
RPM	REVOLUTIONS PER MINUTE
SAN	SANITARY
SCH	SCHEDULE
S.S.	STAINLESS STEEL
ST	STORM
TEMP	TEMPERATURE
THRU	THROUGH
TMV	THERMOSTATIC MIXING VALVE
TP	TRAP PRIMER
TPD	TEPID WATER
TW	TEMPERED WATER
TYP	TYPICAL
T&P	TEMPERATURE AND PRESSURE
UR	URINAL
V	VENT
VIF	VERIFY IN FIELD
VTR	VENT THROUGH ROOF
W	WASTE
W/	WITH
WC	WATER CLOSET
WCO	WALL CLEANOUT
WH	WATER HAMMER ARRESTER
WS	WASTE STACK

PLUMBING TRADE NOTES

P-1 COORDINATE LOCATION OF ALL PLUMBING EQUIPMENT WITH ALL OTHER TRADES.

P-2 MAINTAIN MINIMUM REQUIRED WORKING CLEARANCES ADJACENT TO ELECTRICAL EQUIPMENT PER LATEST EDITION OF ELECTRIC CODE.

P-3 PROVIDE PIPE SLEEVES WHEREVER PIPING PENETRATES ANY WALL, FLOOR, OR CEILING.

P-4 INSTALL ALL PIPING AND WIRING NEATLY AND SQUARE WITH BUILDING FEATURES.

P-5 ALL PENETRATIONS THROUGH NEW OR EXISTING WALLS, CEILINGS AND FLOORS SHALL BE EITHER CORE DRILLED OR SAW CUT. CHISELED OR HAMMERED PENETRATIONS ARE NOT ALLOWED.

P-6 WHERE PIPING PENETRATES A FIRE-RATED WALL, FLOOR, OR CEILING, FIRE STOPPING INSULATION SHALL BE PROVIDED BY THE PLUMBING CONTRACTOR.

P-7 THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING ACCESS PANELS IN AREAS TO BE FINISHED BY GENERAL CONTRACTOR. THE PLUMBING CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING ALL OTHER ACCESS DOORS. COORDINATE AS REQUIRED.

P-8 ALL PIPING SHALL BE INSTALLED AS HIGH AS POSSIBLE, UNLESS OTHERWISE INDICATED.

GENERAL NOTES

THE FOLLOWING GENERAL NOTES APPLY TO ALL RIST-FROST-SHUMWAY ENGINEERING, P.C.. DRAWINGS AND TRADES ASSOCIATED WITH THOSE DRAWINGS INVOLVED ON THIS PROJECT:

G-1 RIST-FROST-SHUMWAY ENGINEERING, P.C., WAIVES ANY AND ALL RESPONSIBILITY AND LIABILITY FOR PROBLEMS WHICH ARISE FROM FAILURE TO FOLLOW THESE PLANS, SPECIFICATIONS, AND/OR THE DESIGN INTENT THEY CONVEY, OR FOR PROBLEMS WHICH ARISE FROM OTHERS' FAILURE TO OBTAIN AND/OR FOLLOW THE GUIDANCE OF RIST-FROST-SHUMWAY ENGINEERING, P.C., GUIDANCE WITH RESPECT TO ANY ERRORS, OMISSIONS, INCONSISTENCIES, AMBIGUITIES, OR CONFLICTS WHICH ARE DISCOVERED OR ALLEGED.

G-2 ALL WORK SHALL CONFORM TO ALL FEDERAL, STATE, AND LOCAL CODES AND STANDARDS INCLUDING, BUT NOT LIMITED TO, NFPA, MAINE STATE INTERNAL PLUMBING CODE (UPC), UL, SMACNA, OSHA, AND NEC.

G-3 CONTRACTOR AND ALL SUBCONTRACTORS SHALL PROTECT THE WORK SITE, SURROUNDING AREAS AND OCCUPANTS FROM DAMAGE AND INJURY.

G-4 CONTRACTOR AND ALL SUBCONTRACTORS SHALL FAMILIARIZE THEMSELVES WITH THE CONTRACT DOCUMENTS. ALL DRAWINGS OF ANY PARTICULAR TRADE SHALL BE USED IN CONJUNCTION WITH DRAWINGS OF ALL OTHER TRADES TO COORDINATE ALL CONSTRUCTION. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER BEFORE PROCEEDING WITH THE AFFECTED WORK. ANY PROPOSED CHANGES, VARIATIONS, OR SUBSTITUTIONS MUST BE REVIEWED AND ACCEPTED BY THE ENGINEER PRIOR TO IMPLEMENTATION.

G-5 ALL DRAWINGS ARE INTENDED TO SHOW THE GENERAL ARRANGEMENT, DESIGN INTENT AND EXTENT OF THE WORK. THEY SHALL BE CONSIDERED PARTLY DIAGRAMMATIC. THEY ARE NOT INTENDED TO BE SCALED FOR ROUGHING-IN MEASUREMENTS OR TO SERVE AS SHOP DRAWINGS.

G-6 THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL DIMENSIONS (AS-BUILT OR OTHERWISE) BEFORE COMMENCING FABRICATION, AND/OR ORDERING MATERIALS.

G-7 DETAILS SHOWN ON ANY DRAWING ARE TO BE CONSIDERED TYPICAL FOR ALL SIMILAR CONDITIONS, UNLESS OTHERWISE INDICATED.

G-8 IN THE EVENT THE CONTRACTOR ENCOUNTERS MATERIAL REASONABLY BELIEVED TO BE HAZARDOUS WHICH HAS NOT BEEN RENDERED HARMLESS, THE CONTRACTOR SHALL IMMEDIATELY STOP WORK IN THE AREA AFFECTED AND REPORT THE CONDITION TO THE OWNER AND ARCHITECT/ENGINEER IN WRITING. THE WORK IN THE AFFECTED AREA SHALL NOT BE RESUMED UNTIL WRITTEN VERIFICATION BY THE OWNER THAT THE MATERIAL HAS BEEN REMOVED OR OTHERWISE RENDERED HARMLESS.

G-9 IT SHALL BE NOTED SOME OF THE PIPING SHOWN ON THE FOLLOWING PLANS SHALL BE FIELD COORDINATED TO BE INSTALLED WITHIN CMU PARTITIONS. PLUMBING SUB-CONTRACTOR SHALL REVIEW THE ARCHITECTURAL DRAWINGS PRIOR TO THE START OF WORK TO DETERMINE THE WALL CONSTRUCTION PRIOR TO INSTALLATION OF ANY PLUMBING STACKS, DROPS, RISERS OR ANY SIMILAR PIPING INSTALLED IN THE VERTICAL POSITIONS. PIPING SHALL BE INSTALLED AS SHOWN INCLUDING THE INSTALLATION OF ANY SPECIFIED INSULATION AS REQUIRED AT NO ADDITIONAL COST TO THE OWNER. PIPING THAT CANNOT BE INSTALLED AS NOTED ON THE PLANS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT AND ENGINEER FOR REVIEW.

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Sanford School Department and State of Maine Department of Education

SANFORD HIGH SCHOOL and TECHNICAL CENTER

SANFORD, ME 04073

NO.	DESCRIPTION	DATE

CONTENT:
PLUMBING SYMBOLS LEGEND AND TRADE NOTES

DRAWN BY:	A. SAK
PROJECT NO:	12-067-00
DATE:	02/11/2016
REVISED:	
SCALE:	1/8" = 1'-0"

P0.01

Project Phase
BID DOCUMENTS

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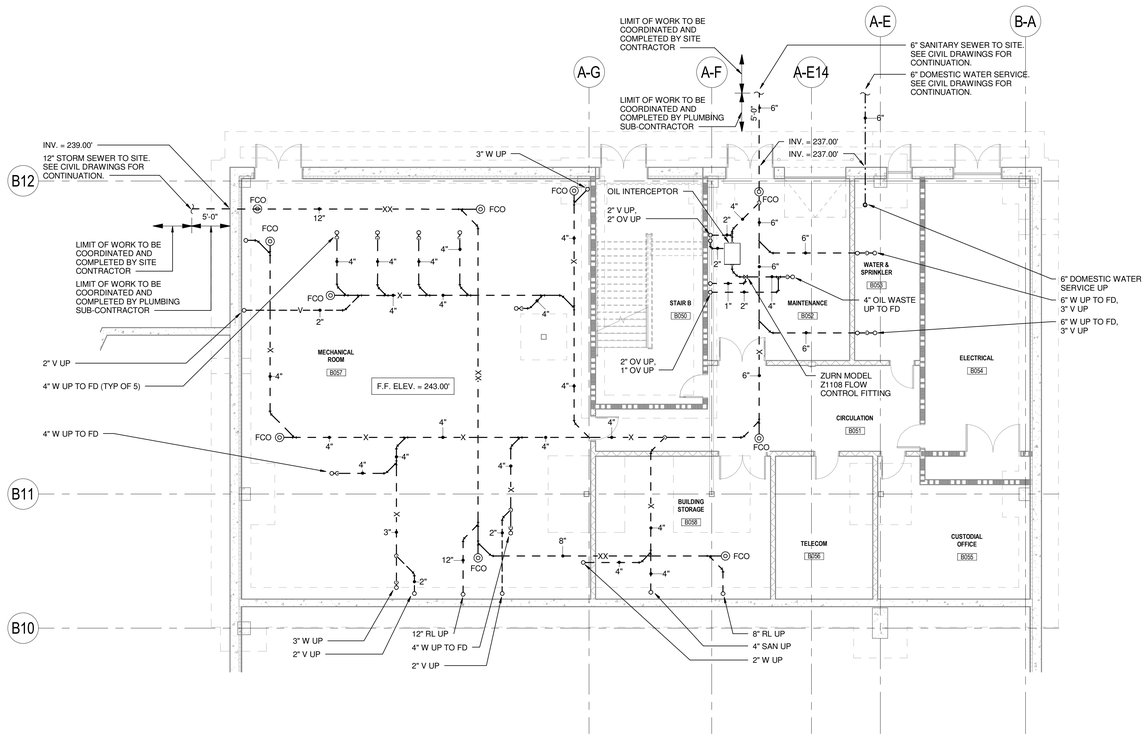

1 BASEMENT - PLUMBING UNDERSLAB PLAN
1/8" = 1'-0"

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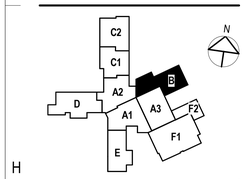

CONTENT:
BASEMENT PLUMBING UNDERSLAB PLAN

DRAWN BY:	A. SAK
PROJECT NO:	12-067-00
DATE:	02/11/2016
REVISED:	
SCALE:	1/8" = 1'-0"

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1 LEVEL 1 - PLUMBING UNDERSLAB PLAN - AREA A1
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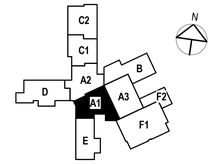

CONTENT:
FIRST FLOOR PLUMBING UNDERSLAB PLAN - AREA A1

DRAWN BY:	A. SAK
PROJECT NO:	12-067-00
DATE:	02/11/2016
REVISED:	
SCALE:	1/8" = 1'-0"

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1 LEVEL 1 - PLUMBING UNDERSLAB PLAN - AREA A2
1/8" = 1'-0"

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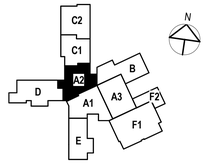

CONTENT:
FIRST FLOOR PLUMBING UNDERSLAB PLAN - AREA A2

DRAWN BY:	A. SAK
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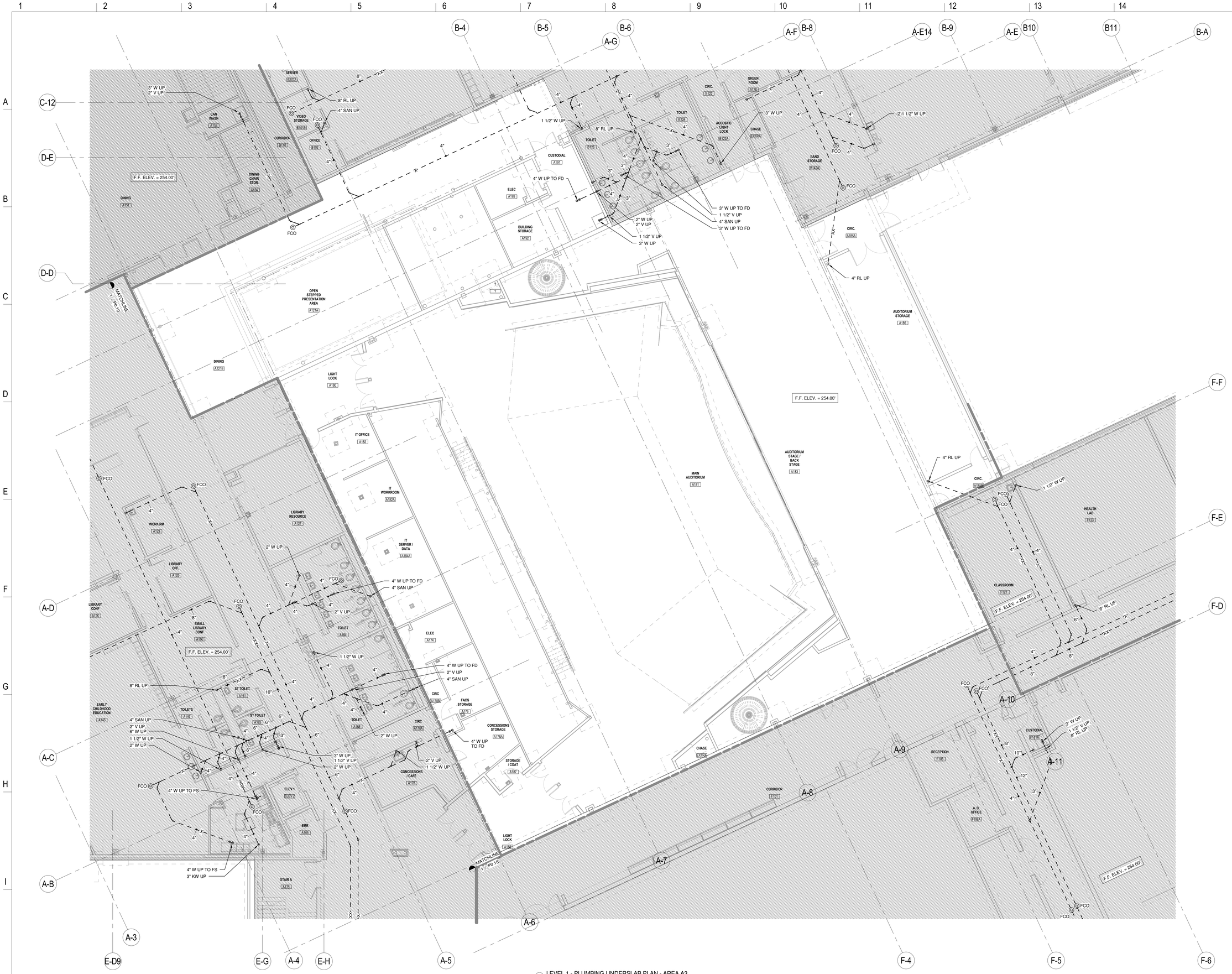

1 LEVEL 1 - PLUMBING UNDERSLAB PLAN - AREA A3
1/8" = 1'-0"

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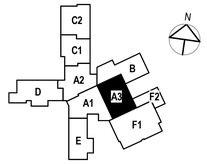

CONTENT:
FIRST FLOOR PLUMBING UNDERSLAB PLAN - AREA A3

DRAWN BY:	A. SAK
PROJECT NO:	12-067-00
DATE:	02/11/2016
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SCALE:	1/8" = 1'-0"

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1 LEVEL 1 - PLUMBING UNDERSLAB PLAN - AREA B
1/8" = 1'-0"

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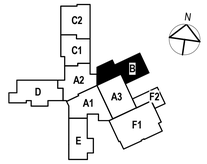

CONTENT:
FIRST FLOOR PLUMBING UNDERSLAB PLAN - AREA B

DRAWN BY:	A. SAK
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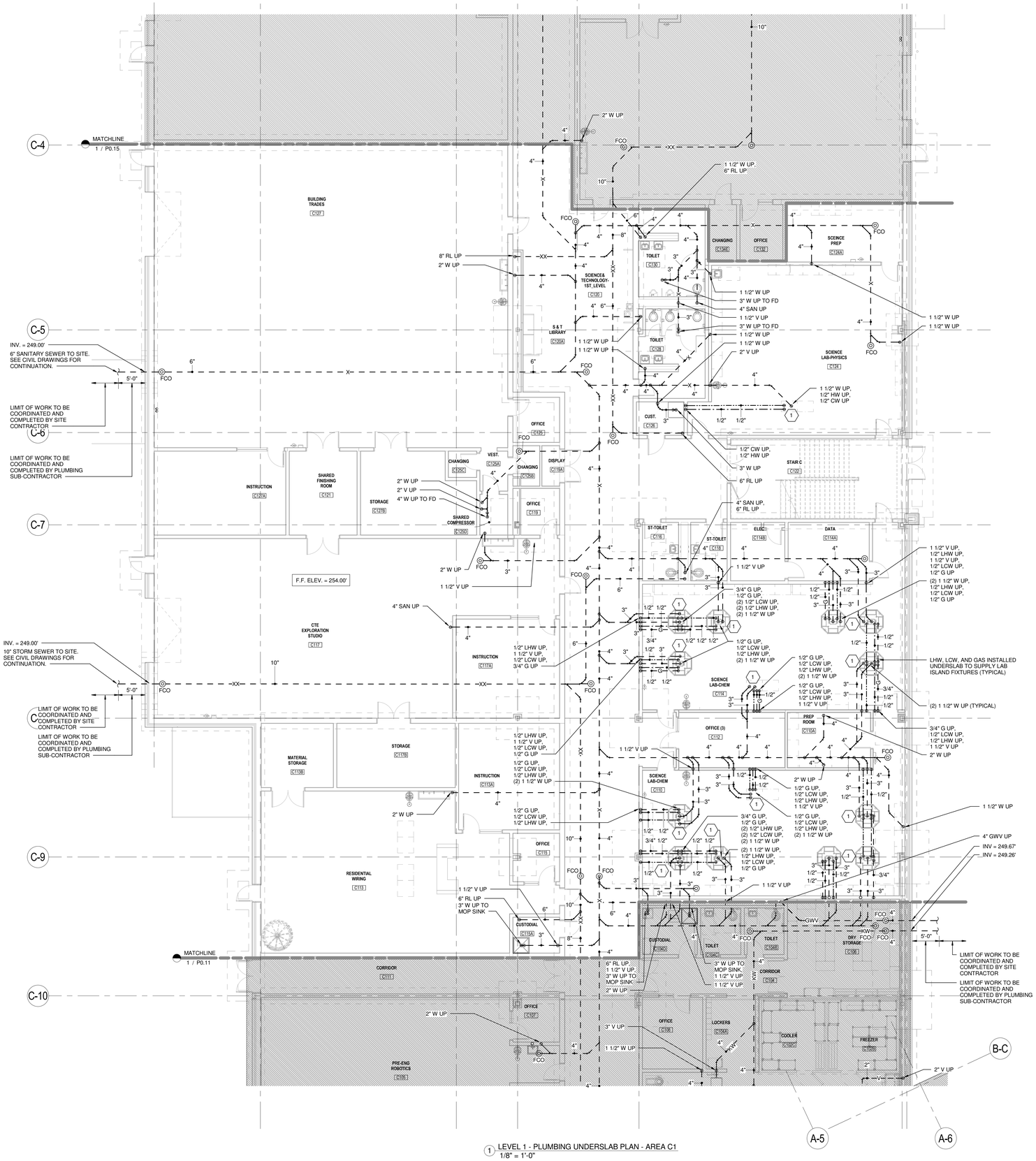
DRAWING NOTES

1. REFER TO DETAIL ON DWG P4.02 FOR ADDITIONAL INFORMATION OF SANITARY AND VENT PIPING FOR ISLAND FIXTURES



1 LEVEL 1 - PLUMBING UNDERSLAB PLAN - AREA C1
1/8" = 1'-0"

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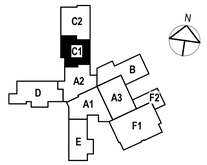

CONTENT:
FIRST FLOOR PLUMBING UNDERSLAB PLAN - AREA C1

DRAWN BY:	A. SAK
PROJECT NO:	12-067-00
DATE:	02/11/2016
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SCALE:	1/8" = 1'-0"

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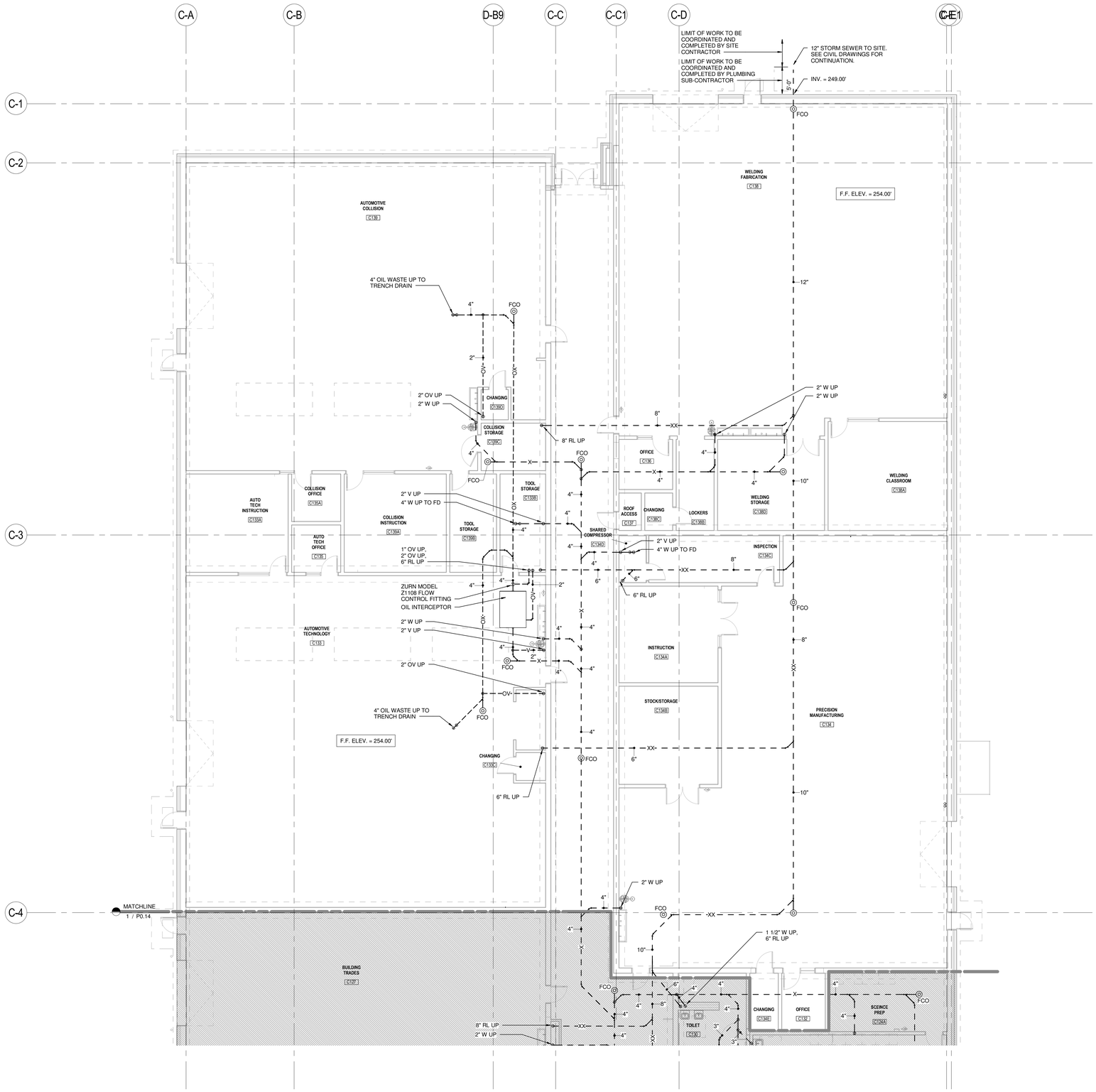

1 LEVEL 1 - PLUMBING UNDERSLAB PLAN - AREA C2
1/8" = 1'-0"

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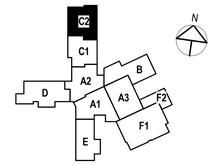

CONTENT:
FIRST FLOOR PLUMBING UNDERSLAB PLAN - AREA C2

DRAWN BY:	A. SAK
PROJECT NO:	12-067-00
DATE:	02/11/2016
REVISED:	
SCALE:	1/8" = 1'-0"

P0.15

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BID DOCUMENTS

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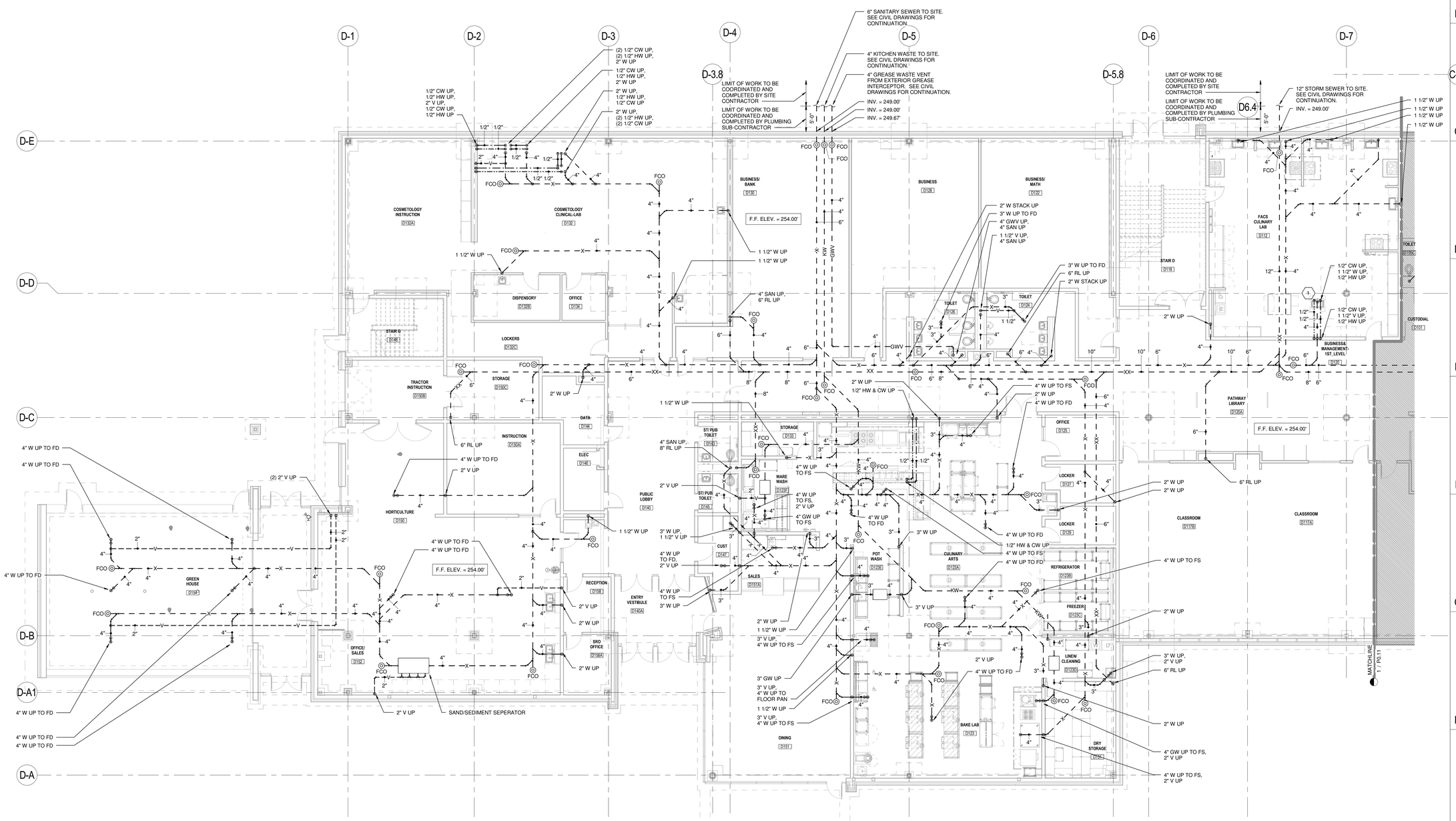
DRAWING NOTES

1. REFER TO DETAIL ON DWG P4.02 FOR ADDITIONAL INFORMATION OF SANITARY AND VENT PIPING FOR ISLAND FIXTURES



1 LEVEL 1 - PLUMBING UNDERSLAB PLAN - AREA D
1/8" = 1'-0"

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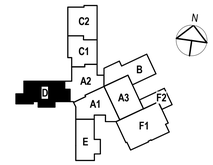

CONTENT:
FIRST FLOOR PLUMBING UNDERSLAB PLAN - AREA D

DRAWN BY:	A. SAK
PROJECT NO:	12-067-00
DATE:	02/11/2016
REVISED:	
SCALE:	1/8" = 1'-0"

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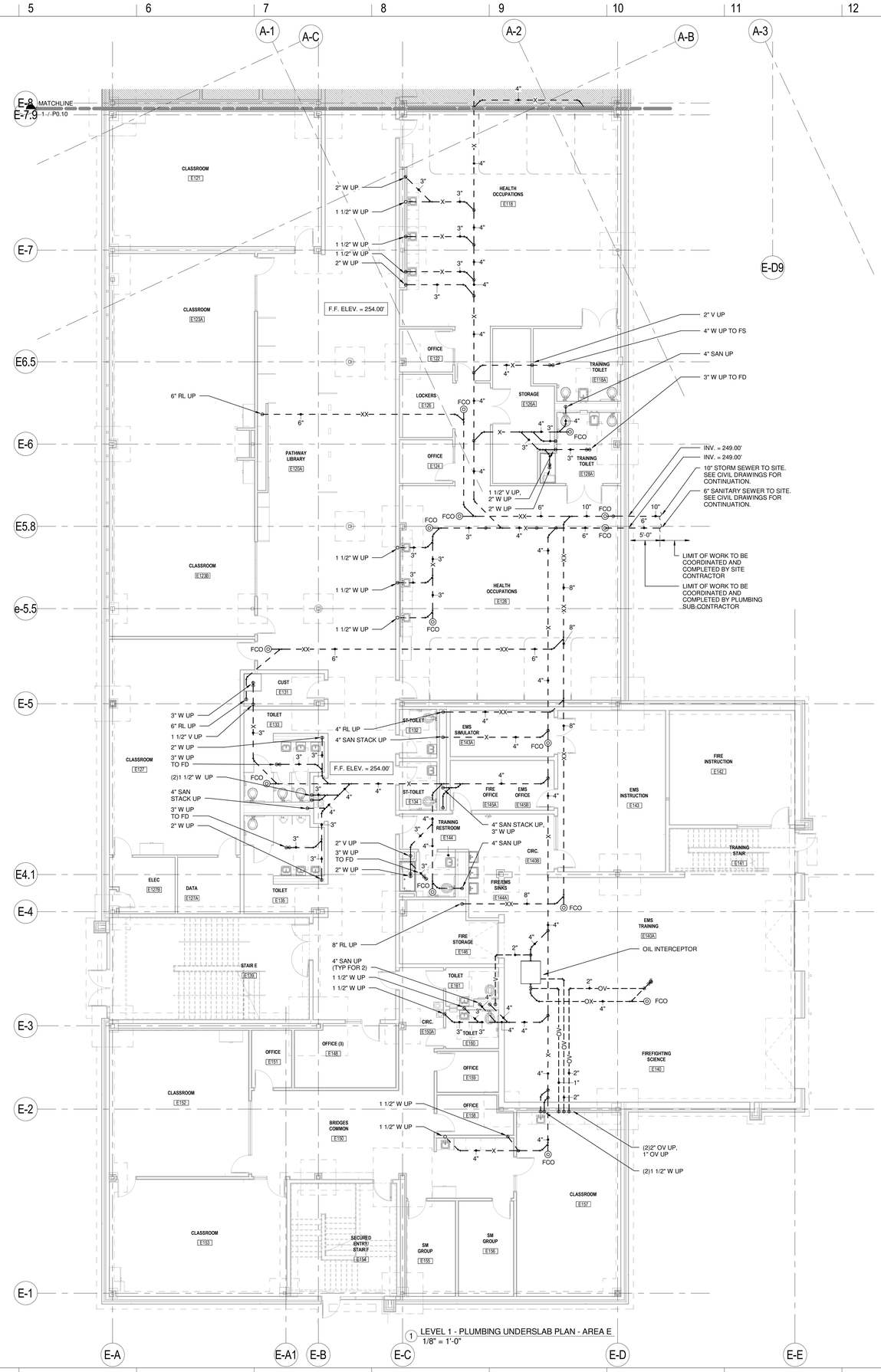

1 LEVEL 1 - PLUMBING UNDERSLAB PLAN - AREA E
1/8" = 1'-0"

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No. 10697
LICENSED
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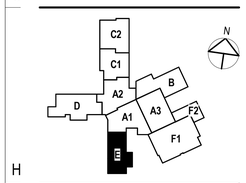

CONTENT:
FIRST FLOOR PLUMBING UNDERSLAB PLAN - AREA E

DRAWN BY:	A. SAK
PROJECT NO:	12-067-00
DATE:	02/11/2016
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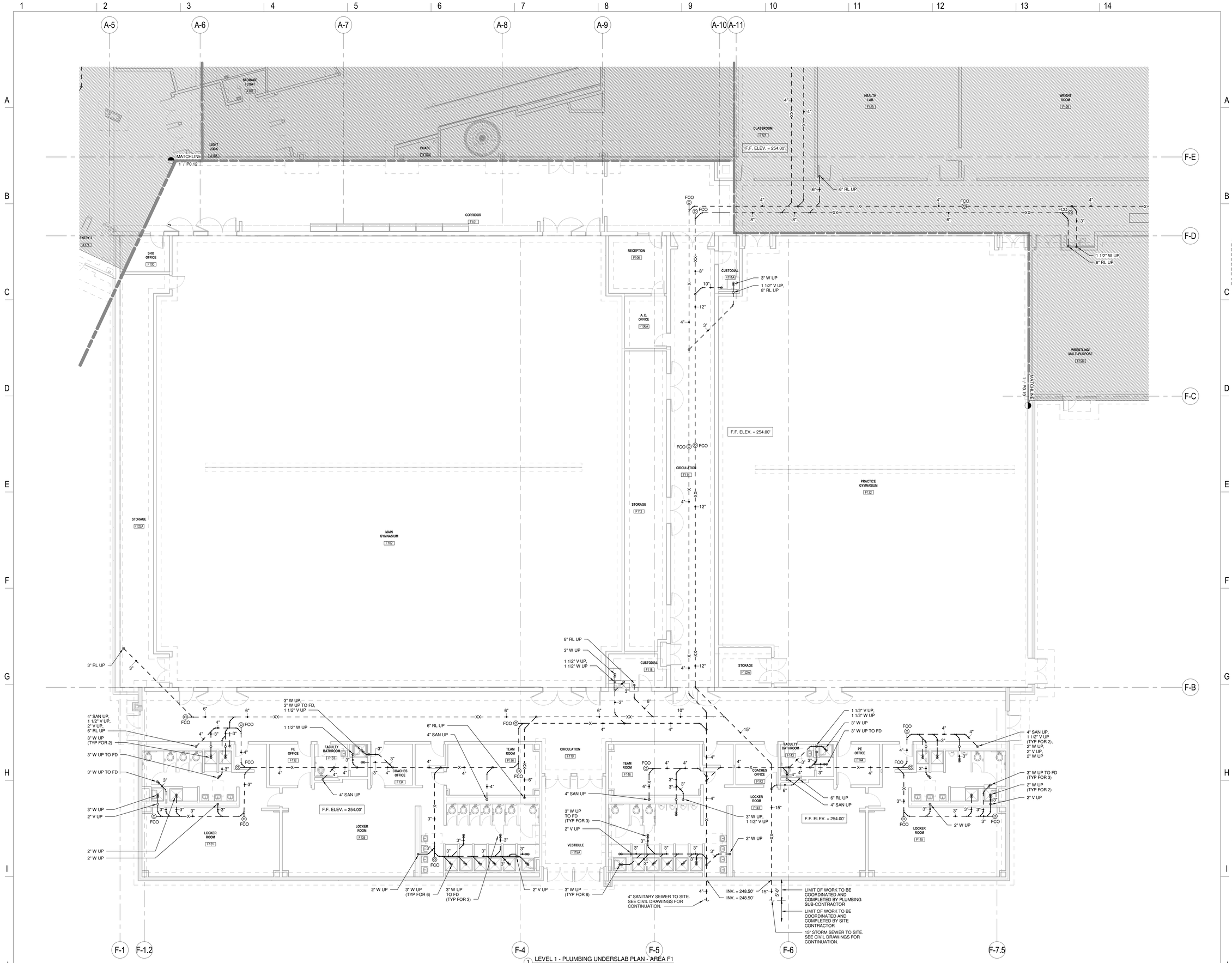

1 LEVEL 1 - PLUMBING UNDERSLAB PLAN - AREA F1
1/8" = 1'-0"

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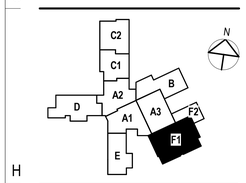

CONTENT:
FIRST FLOOR PLUMBING UNDERSLAB PLAN - AREA F1

DRAWN BY:	A. SAK
PROJECT NO:	12-067-00
DATE:	02/11/2016
REVISED:	
SCALE:	1/8" = 1'-0"

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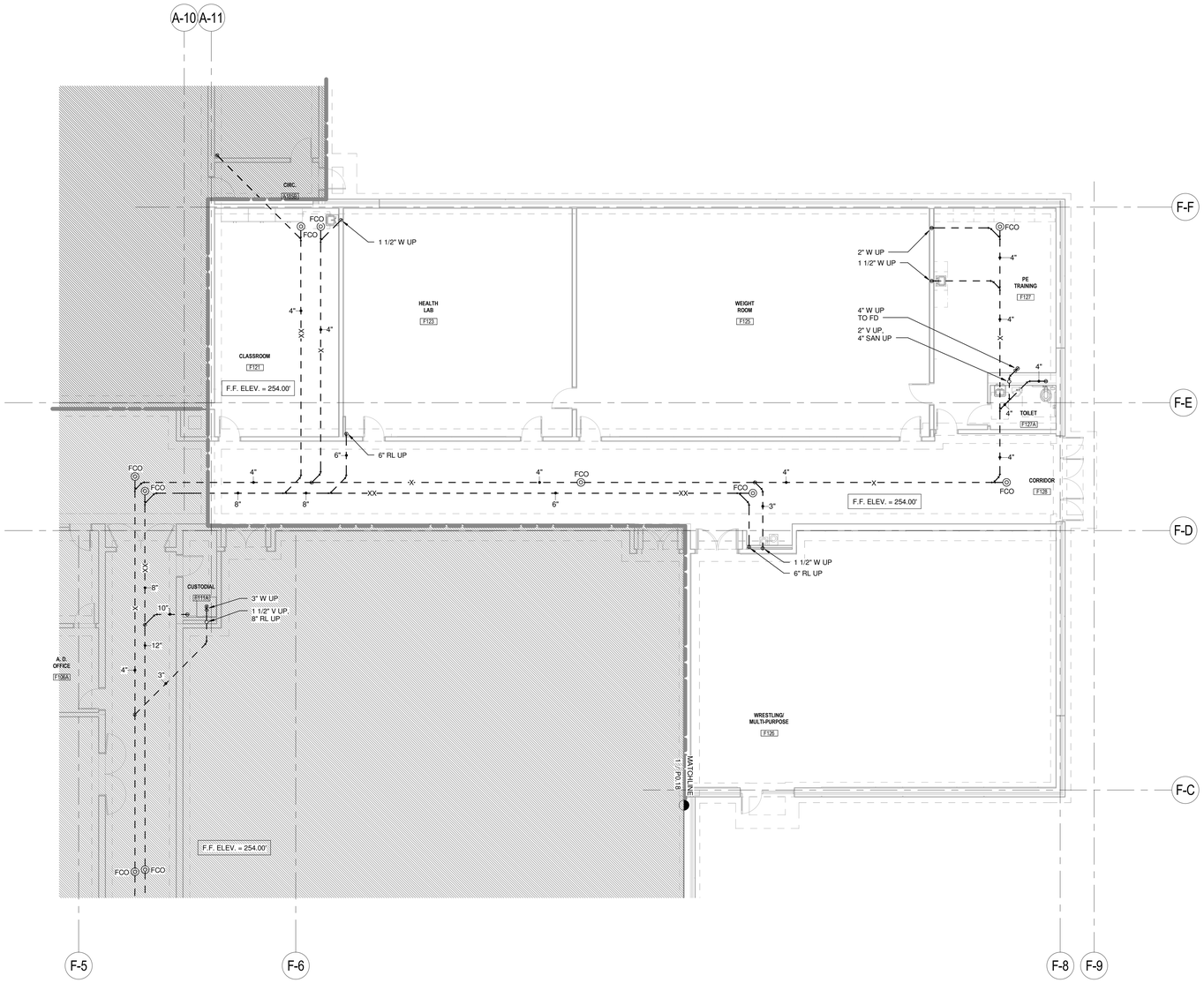

1 LEVEL 1 - PLUMBING UNDERSLAB PLAN - AREA F2
1/8" = 1'-0"

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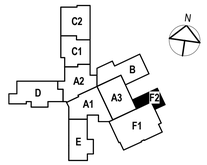

CONTENT:
FIRST FLOOR PLUMBING UNDERSLAB PLAN - AREA F2

DRAWN BY:	A. SAK
PROJECT NO:	12-067-00
DATE:	02/11/2016
REVISED:	
SCALE:	1/8" = 1'-0"

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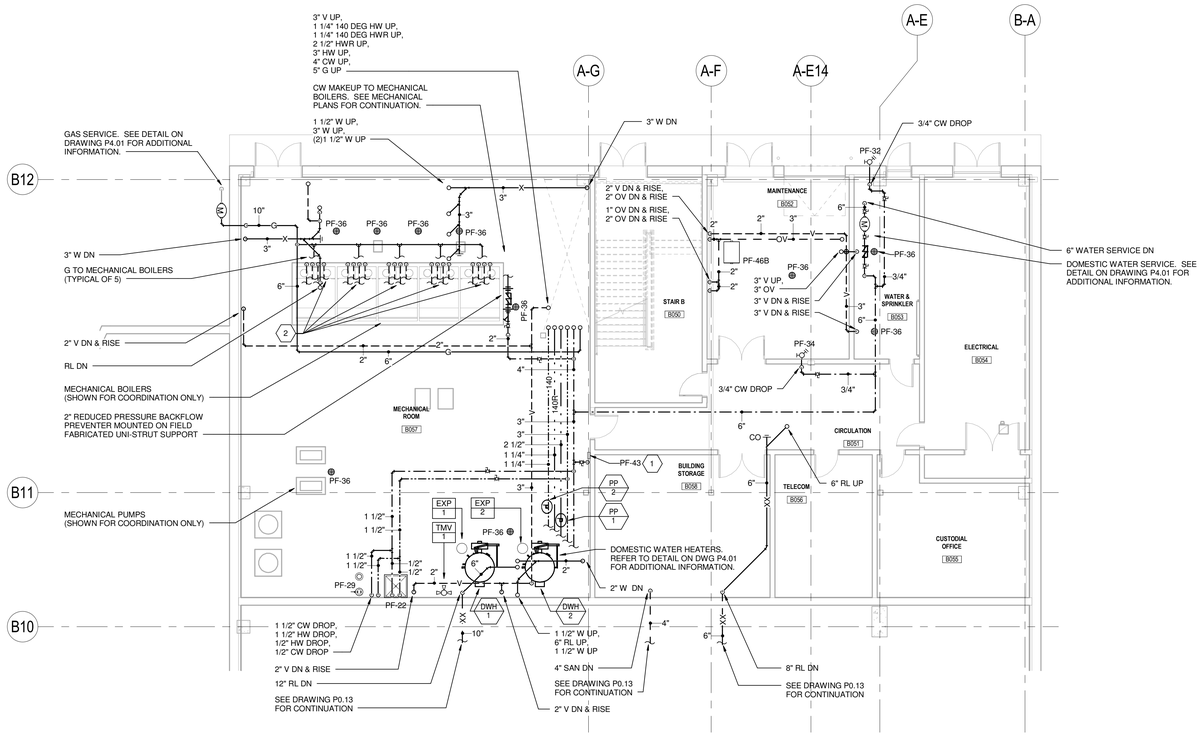
DRAWING NOTES

1. ELECTRONIC TRAP PRIMER (PF-43) SHALL SERVE ALL FLOOR DRAINS LOCATED ON BASEMENT LEVEL
2. PLUMBING SUB-CONTRACTOR SHALL PROVIDE (2) 1 1/4" AND (2) 1 1/2" GAS TRAIN VENTS TO (5) MECHANICAL BOILERS. GAS TRAIN VENTS SHALL BE PIPED INDEPENDENTLY THRU THE BUILDING AND TERMINATE AT THE ROOF WITH A 180 DEGREE BEND AND A BUG SCREEN. FIELD COORDINATE FINAL GAS TRAIN VENT REQUIREMENTS WITH BOILER MANUFACTURER.



1 BASEMENT - PLUMBING PLAN
1/8" = 1'-0"

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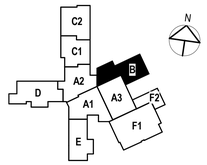

CONTENT:
BASEMENT PLUMBING PLAN

DRAWN BY:	A. SAK
PROJECT NO:	12-067-00
DATE:	02/11/2016
REVISED:	
SCALE:	1/8" = 1'-0"

P1.09

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1 LEVEL 1 - PLUMBING PLAN - AREA A1
1/8" = 1'-0"

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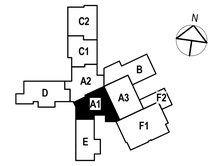

CONTENT:
FIRST FLOOR PLUMBING PLAN - AREA A1

DRAWN BY:	A. SAK
PROJECT NO:	12-067-00
DATE:	02/11/2016
REVISED:	
SCALE:	1/8" = 1'-0"

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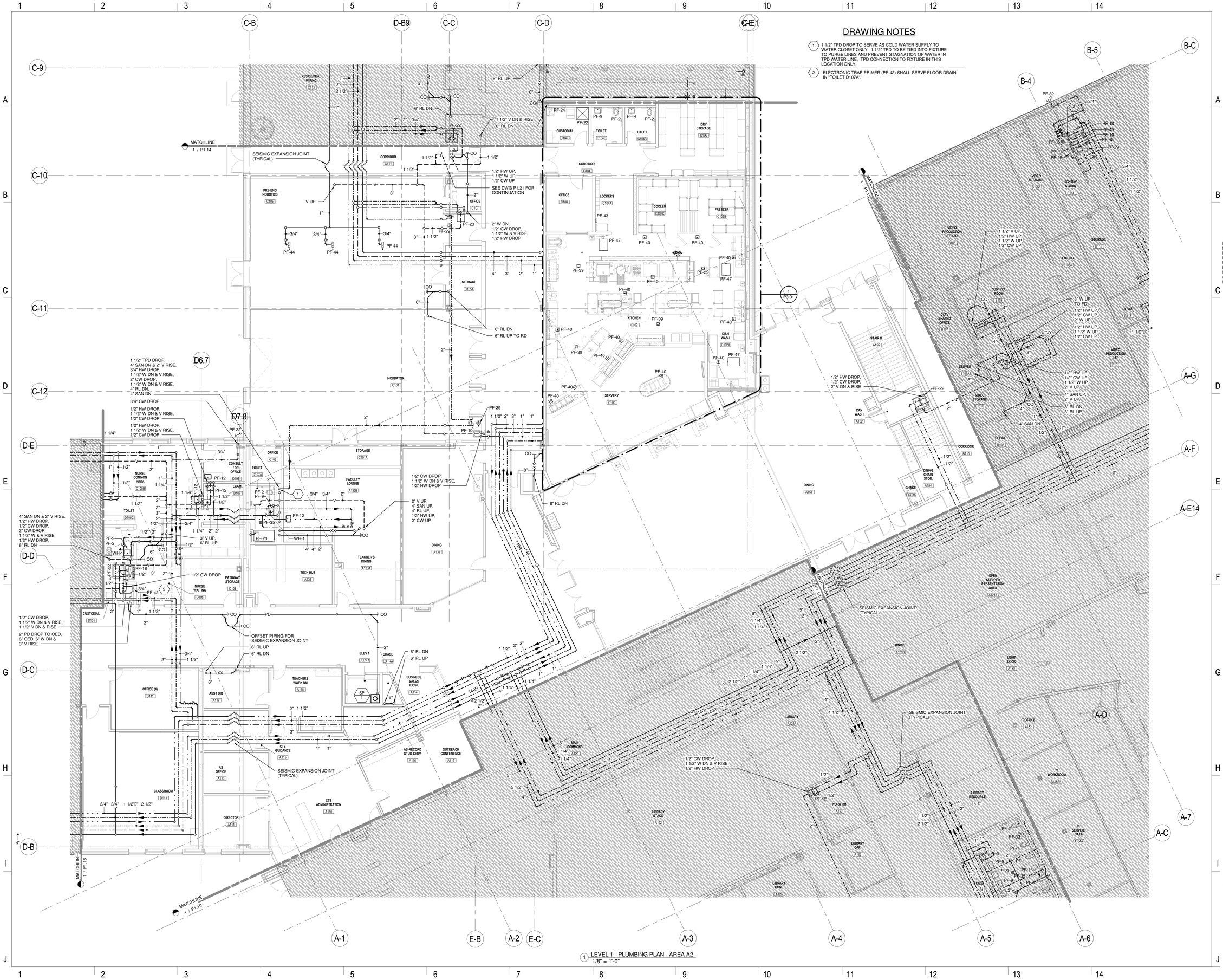
DRAWING NOTES

1. 1 1/2" TPD DROP TO SERVE AS COLD WATER SUPPLY TO WATER CLOSET ONLY. 1 1/2" TPD TO BE TIED INTO FIXTURE TO PURGE LINES AND PREVENT STAGNATION OF WATER IN TPD WATER LINE. TPD CONNECTION TO FIXTURE IN THIS LOCATION ONLY.
2. ELECTRONIC TRAP PRIMER (PF-42) SHALL SERVE FLOOR DRAIN IN "TOILET D107A".



1 LEVEL 1 - PLUMBING PLAN - AREA A2
1/8" = 1'-0"

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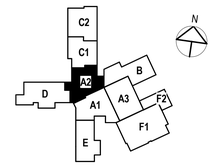

CONTENT:
FIRST FLOOR PLUMBING PLAN - AREA A2

DRAWN BY:	A. SAK
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DATE:	02/11/2016
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1 LEVEL 1 - PLUMBING PLAN - AREA A3
1/8" = 1'-0"

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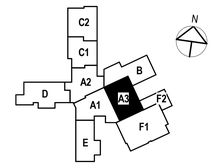

CONTENT:
FIRST FLOOR PLUMBING PLAN - AREA A3

DRAWN BY:	A. SAK
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DRAWING NOTES

1. PLUMBING SUB-CONTRACTOR SHALL OFFSET VENT PIPING INTO EXTERIOR WALL.
2. PLUMBING SUB-CONTRACTOR SHALL PROVIDE CONDENSATE RECIEVER DRAIN FOR MECHANICAL CONDENSATE DRAINS IN THIS LOCATION. REFER TO DETAIL ON DWG P4.03 FOR ADDTIONAL INFORMATION.

1 LEVEL 1 - PLUMBING PLAN - AREA B
1/8" = 1'-0"

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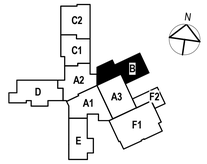

CONTENT:
FIRST FLOOR PLUMBING PLAN - AREA B

DRAWN BY:	A. SAK
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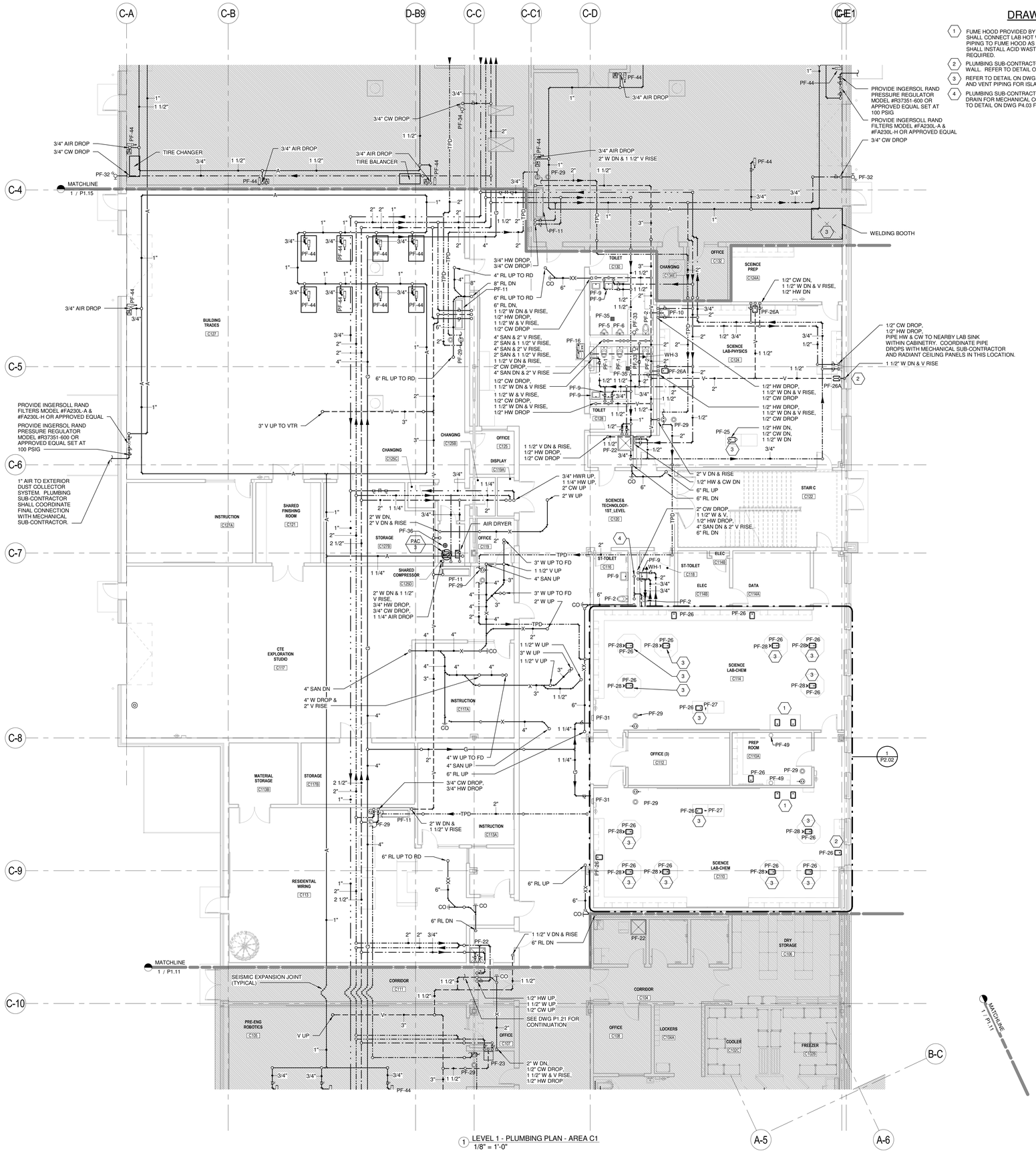

1 LEVEL 1 - PLUMBING PLAN - AREA C1
1/8" = 1'-0"

DRAWING NOTES

1. FUME HOOD PROVIDED BY OTHERS. PLUMBING SUB-CONTRACTOR SHALL CONNECT LAB HOT WATER, LAB COLD WATER, AND GAS PIPING TO FUME HOOD AS REQUIRED. PLUMBING SUB-CONTRACTOR SHALL INSTALL ACID WASTE AND VENT PIPING TO FUME HOOD AS REQUIRED.
2. PLUMBING SUB-CONTRACTOR SHALL OFFSET VENT PIPING INTO EXTERIOR WALL. REFER TO DETAIL ON DWG P4.02 FOR ADDITIONAL INFORMATION.
3. REFER TO DETAIL ON DWG P4.02 FOR ADDITIONAL INFORMATION OF SANITARY AND VENT PIPING FOR ISLAND FIXTURES
4. PLUMBING SUB-CONTRACTOR SHALL PROVIDE CONDENSATE RECIEVER DRAIN FOR MECHANICAL CONDENSATE DRAINS IN THIS LOCATION. REFER TO DETAIL ON DWG P4.03 FOR ADDITIONAL INFORMATION.

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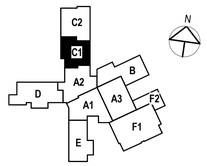

CONTENT:
FIRST FLOOR PLUMBING PLAN -AREA C1

DRAWN BY:	A. SAK
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P1.14

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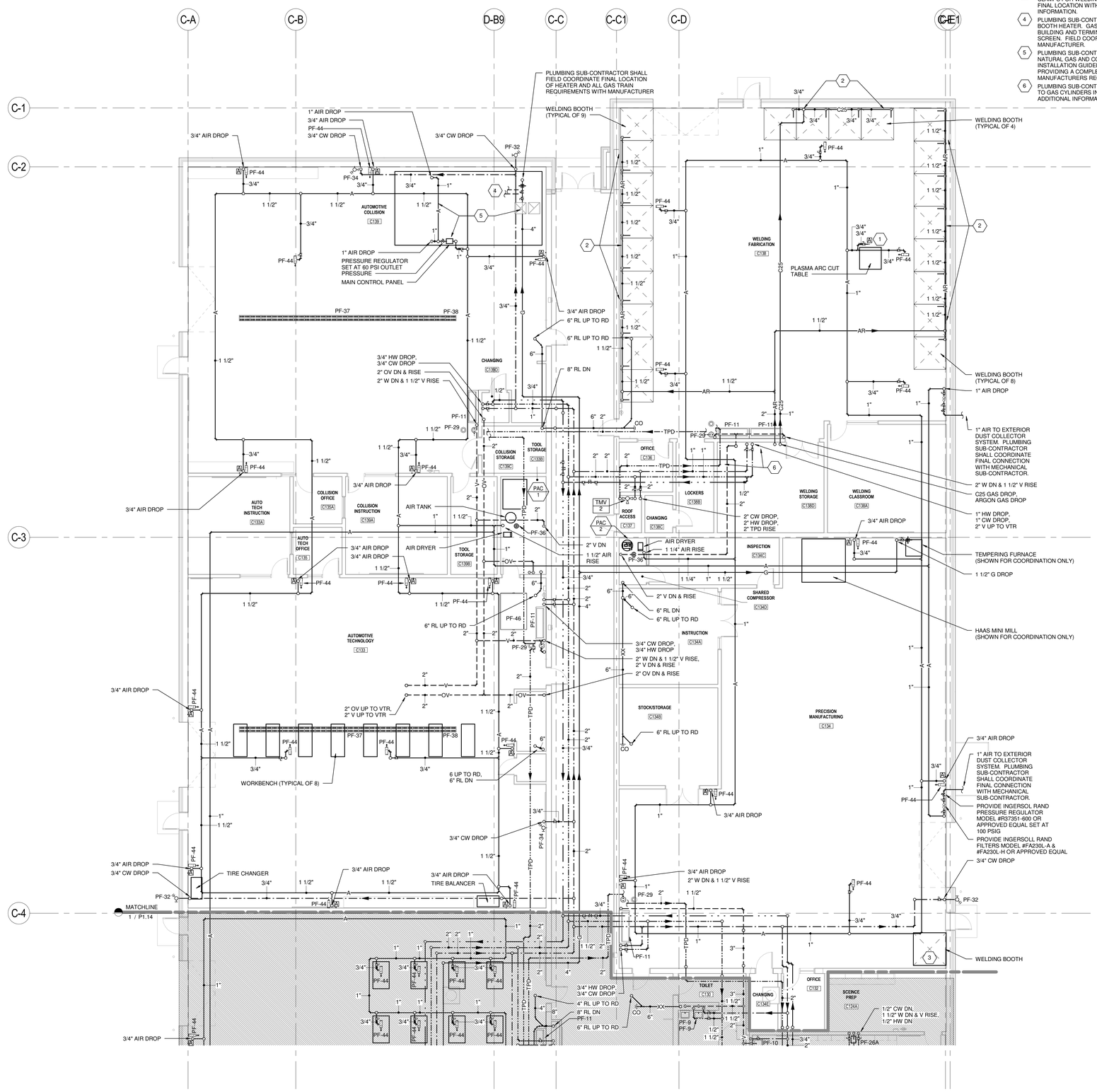
DRAWING NOTES

1. PLUMBING SUB-CONTRACTOR SHALL PROVIDE COMPRESSED AIR CONNECTOR FOR CONNECTION OF PLASMA CUTTER
2. PLUMBING SUB-CONTRACTOR SHALL PROVIDE GAS CONNECTION AT EACH WELDING BOOTH. REFER TO DETAIL ON DWG P4.04 FOR ADDITIONAL INFORMATION.
3. PLUMBING SUB-CONTRACTOR SHALL PROVIDE WALL MOUNTED GAS CYLINDER CLAMPS FOR WELDING BOOTH GAS CYLINDERS. CONTRACTOR SHALL COORDINATE FINAL LOCATION WITH ARCHITECT. REFER TO DETAIL ON DWG P4.04 FOR ADDITIONAL INFORMATION.
4. PLUMBING SUB-CONTRACTOR SHALL PROVIDE (2) 1" GAS TRAIN VENTS TO SPRAY BOOTH HEATER. GAS TRAIN VENTS SHALL BE PIPED INDEPENDENTLY THRU THE BUILDING AND TERMINATE AT THE ROOF WITH A 180 DEGREE BEND AND A BUG SCREEN. FIELD COORDINATE FINAL GAS TRAIN VENT REQUIREMENTS WITH BOILER MANUFACTURER.
5. PLUMBING SUB-CONTRACTOR SHALL FIELD COORDINATE INSTALLATION OF ALL NATURAL GAS AND COMPRESSED AIR PIPING WITH SPRAY BOOTH MANUFACTUERS INSTALLATION GUIDELINES. PLUMBING SUB-CONTRACTOR IS RESPONSIBLE FOR PROVIDING A COMPLETE, FUNCTIONING SYSTEM IN CONFORMANCE WITH THE MANUFACTURERS REQUIREMENTS.
6. PLUMBING SUB-CONTRACTOR SHALL CONNECT ARGON AND C25 GAS MAINS TO GAS CYLINDERS IN THIS LOCATION. REFER TO DETAIL ON DWG P4.04 FOR ADDITIONAL INFORMATION.



1 LEVEL 1 - PLUMBING PLAN - AREA C2
1/8" = 1'-0"

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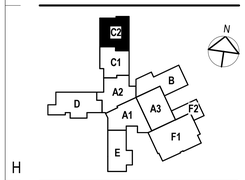

CONTENT:
FIRST FLOOR PLUMBING PLAN - AREA C2

DRAWN BY:	A. SAK
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P1.15

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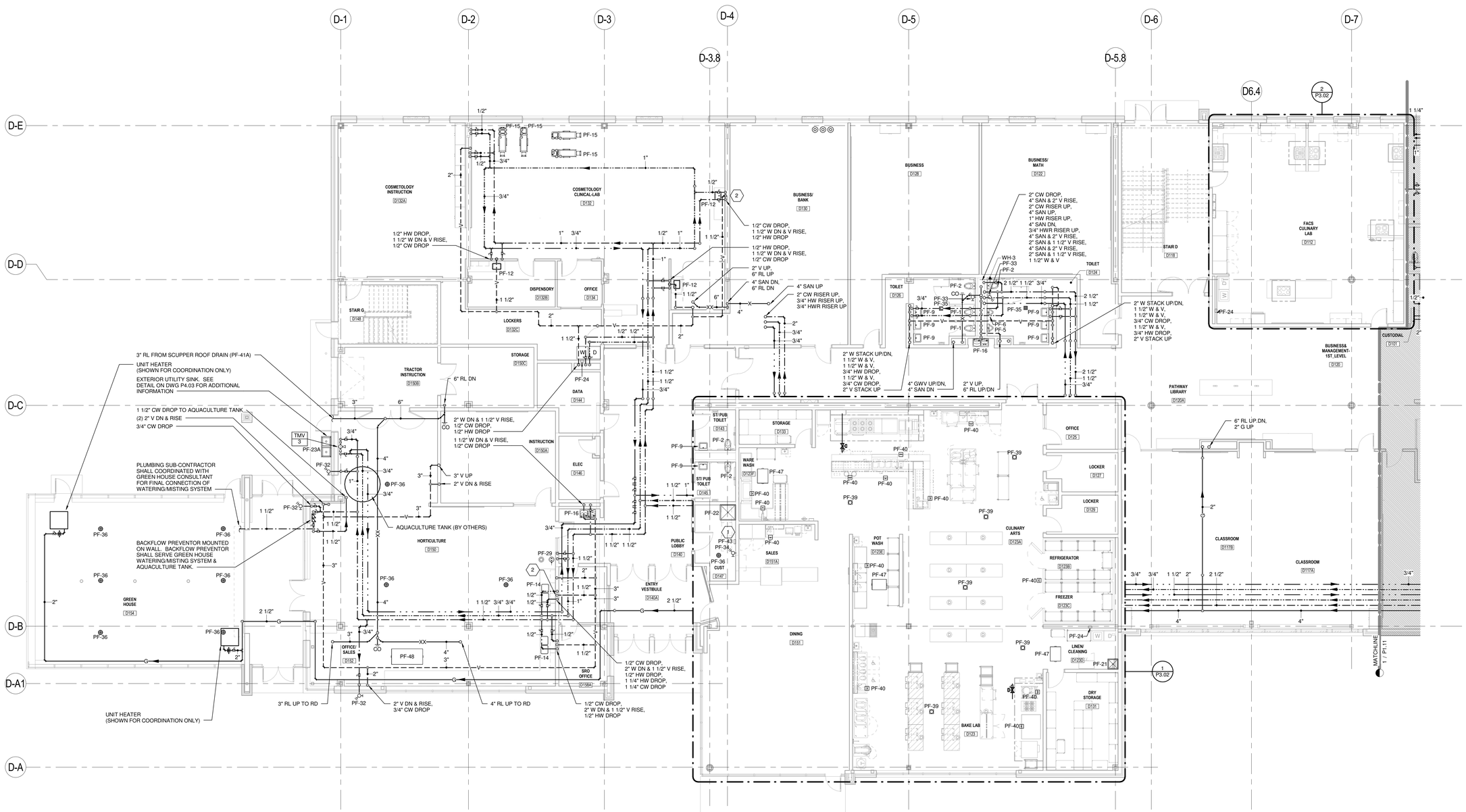
DRAWING NOTES

1. ELECTRONIC TRAP PRIMER (PF-43) SHALL SERVE ALL FLOOR DRAINS AND FLOOR SINKS LOCATED ON FIRST FLOOR OF AREA D.
2. PLUMBING SUB-CONTRACTOR SHALL PROVIDE CONDENSATE RECIEVER DRAIN FOR MECHANICAL CONDENSATE DRAINS IN THIS LOCATION. REFER TO DETAIL ON DWG P4.03 FOR ADDITIONAL INFORMATION.



1 LEVEL 1 - PLUMBING PLAN - AREA D
1/8" = 1'-0"

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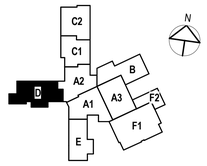

CONTENT:
FIRST FLOOR PLUMBING PLAN - AREA D

DRAWN BY:	A. SAK
PROJECT NO:	12-067-00
DATE:	02/11/2016
REVISED:	
SCALE:	1/8" = 1'-0"

P1.16

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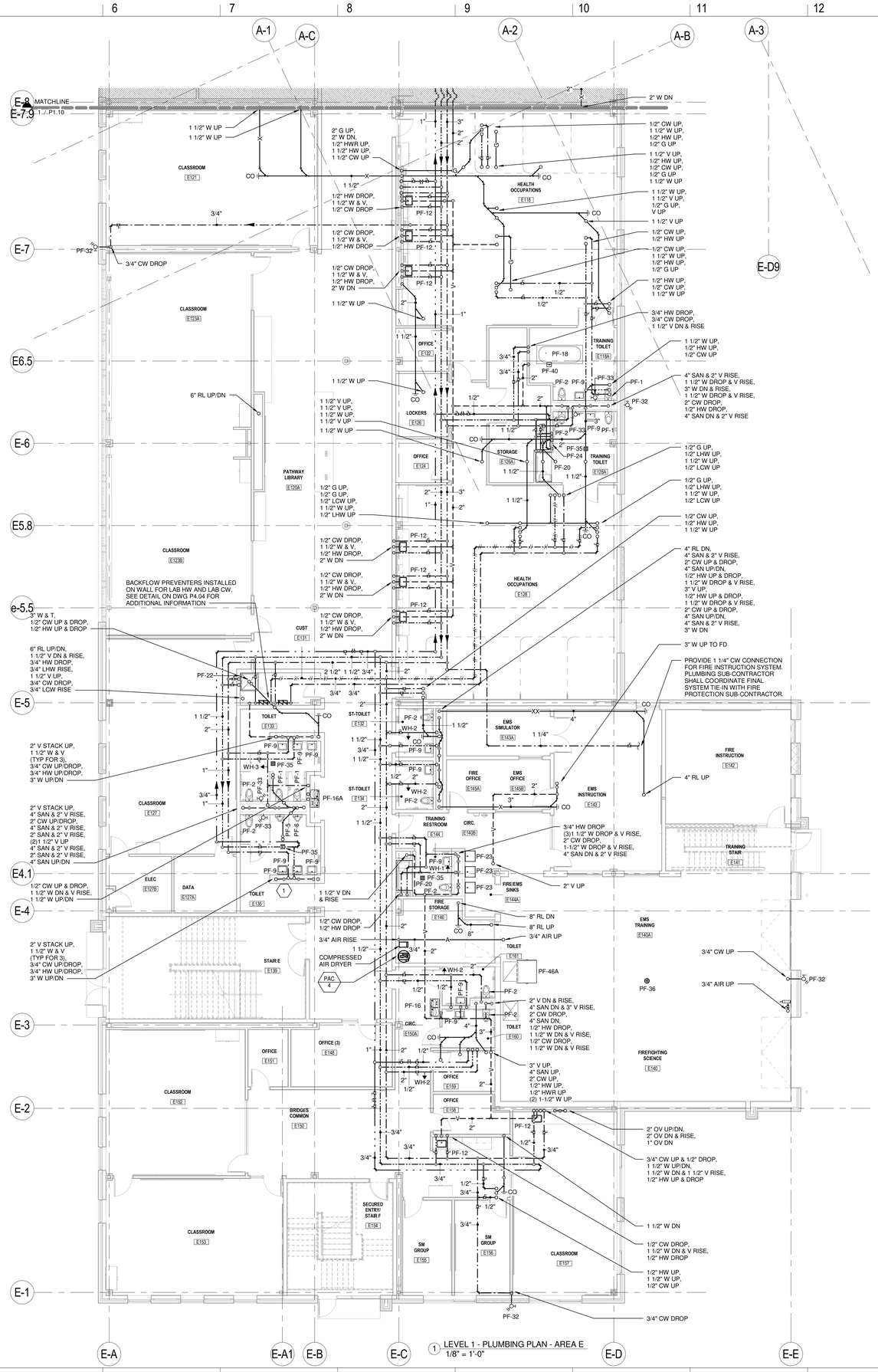
DRAWING NOTES

1. PLUMBING SUB-CONTRACTOR SHALL PROVIDE CONDENSATE RECIEVER DRAIN FOR MECHANICAL CONDENSATE DRAINS IN THIS LOCATION. REFER TO DETAIL ON DWG P4.03 FOR ADDITIONAL INFORMATION.



1 LEVEL 1 - PLUMBING PLAN - AREA E
1/8" = 1'-0"

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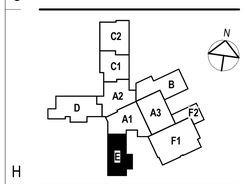

CONTENT:
FIRST FLOOR PLUMBING PLAN - AREA E

DRAWN BY:	A. SAK
PROJECT NO:	12-067-00
DATE:	02/11/2016
REVISED:	
SCALE:	1/8" = 1'-0"

P1.17

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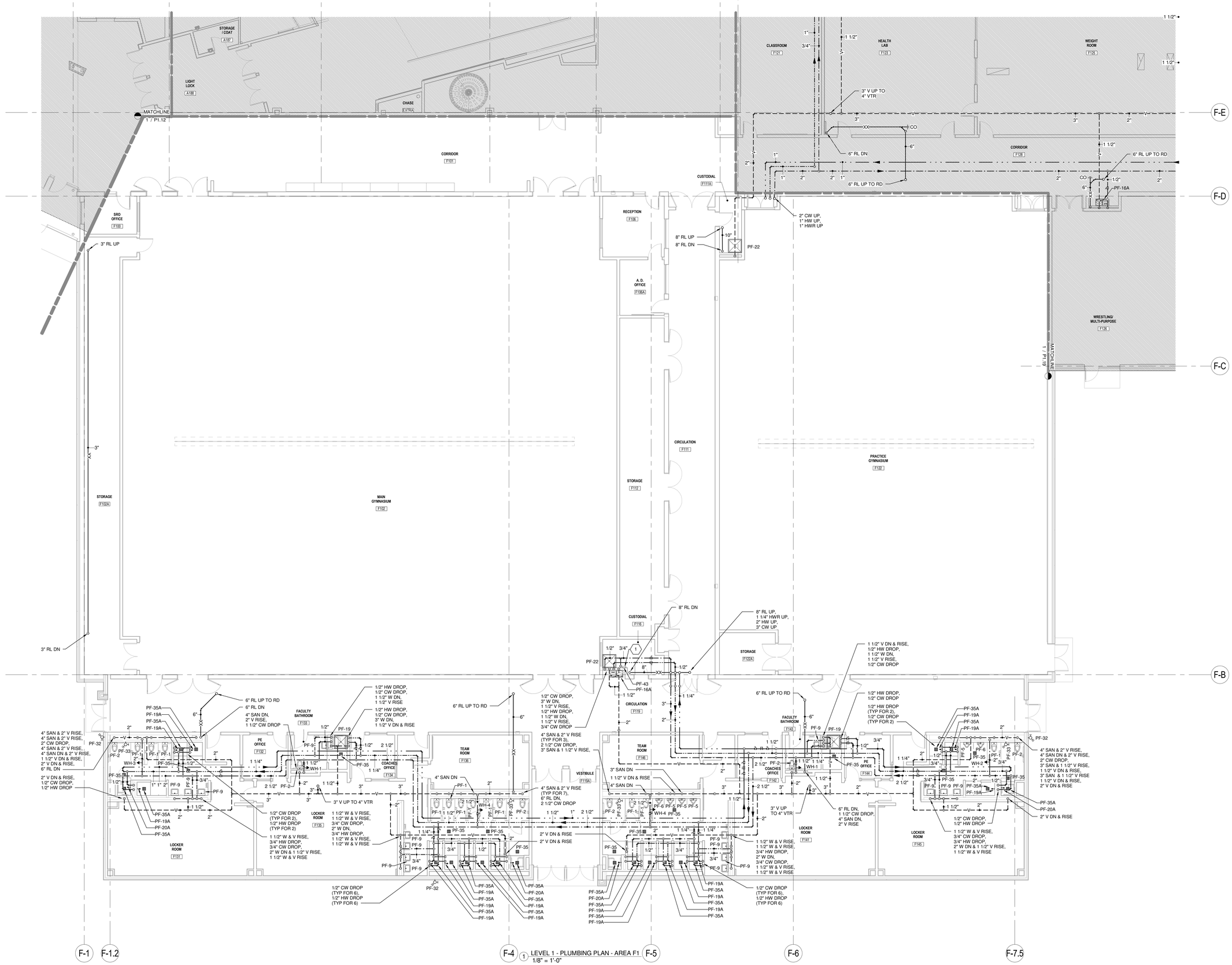
DRAWING NOTES

1. ELECTRONIC TRAP PRIMER (PF-43) SHALL SERVE ALL GENERAL PURPOSE FLOOR DRAINS (PF-35) IN AREA F1.



1 LEVEL 1 - PLUMBING PLAN - AREA F1
1/8" = 1'-0"

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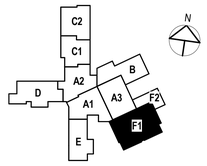

CONTENT:
FIRST FLOOR PLUMBING PLAN - AREA F1

DRAWN BY:	A. SAK
PROJECT NO:	12-067-00
DATE:	02/11/2016
REVISED:	
SCALE:	1/8" = 1'-0"

P1.18

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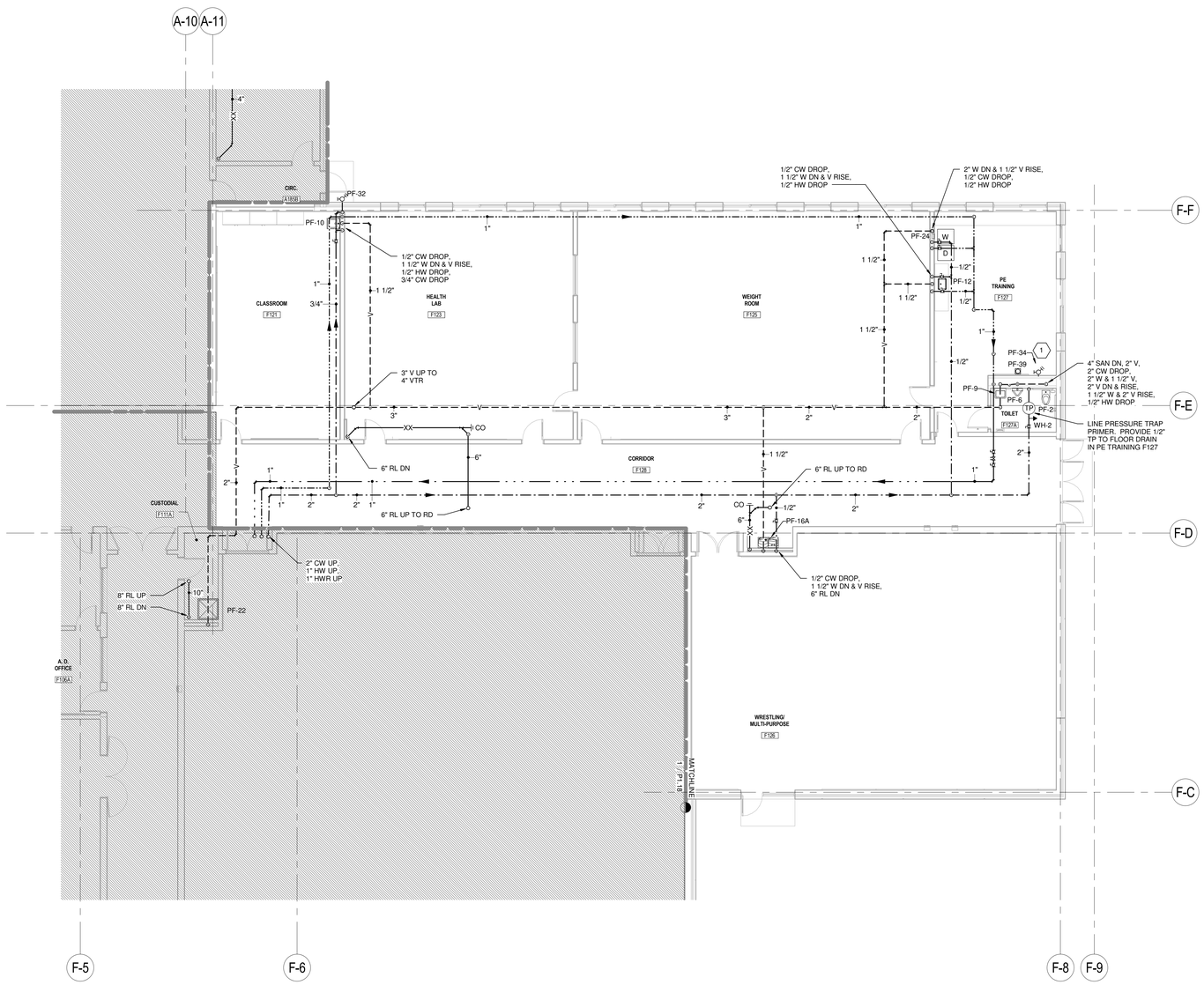
DRAWING NOTES

1. FLOOR DRAIN (PF-39) AND HOSEBIB (PF-34) PROVIDED FOR ICE TUB. FLOOR DRAIN SHALL BE PROVIDED WITH HALF GRATE COVER FOR RECIEVING DRAIN FROM ICE TUB.



1 LEVEL 1 - PLUMBING PLAN - AREA F2
1/8" = 1'-0"

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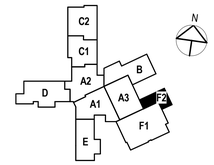

CONTENT:
FIRST FLOOR PLUMBING PLAN - AREA F2

DRAWN BY:	A. SAK
PROJECT NO:	12-067-00
DATE:	02/11/2016
REVISED:	
SCALE:	1/8" = 1'-0"

P1.19

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DRAWING NOTES

1. ELECTRONIC TRAP PRIMER (PF-43) SHALL SERVE ALL FLOOR DRAINS AND FLOOR SINKS ON LEVEL 1 & 2 OF AREA A1.
2. PLUMBING SUB-CONTRACTOR SHALL OFFSET VENT PIPING INTO EXTERIOR WALL. REFER TO DETAIL ON DWG.P4.02 FOR ADDTIONAL INFORMATION.

1 LEVEL 2 - PLUMBING PLAN - AREA A1
1/8" = 1'-0"

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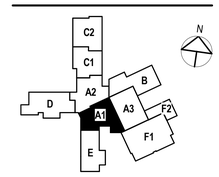

CONTENT:
SECOND FLOOR PLUMBING PLAN - AREA A1

DRAWN BY:	A. SAK
PROJECT NO:	12-067-00
DATE:	02/11/2016
REVISED:	
SCALE:	1/8" = 1'-0"

P1.20

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DRAWING NOTES

1. PLUMBING SUB-CONTRACTOR SHALL PROVIDE CONDENSATE RECIEVER DRAIN FOR MECHANICAL CONDENSATE DRAINS IN THIS LOCATION. REFER TO DETAIL ON DWG P4.03 FOR ADDTIONAL INFORMATION.

1 LEVEL 2 - PLUMBING PLAN - AREA A2
1/8" = 1'-0"

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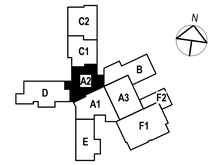

CONTENT:
SECOND FLOOR PLUMBING PLAN - AREA A2

DRAWN BY:	A. SAK
PROJECT NO:	12-067-00
DATE:	02/11/2016
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SCALE:	1/8" = 1'-0"

P1.21

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1 LEVEL 2 - PLUMBING PLAN - AREA A3
1/8" = 1'-0"

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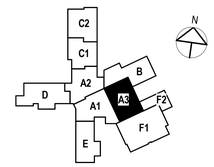

CONTENT:
SECOND FLOOR PLUMBING PLAN - AREA A3

DRAWN BY:	A. SAK
PROJECT NO:	12-067-00
DATE:	02/11/2016
REVISED:	
SCALE:	1/8" = 1'-0"

P1.22

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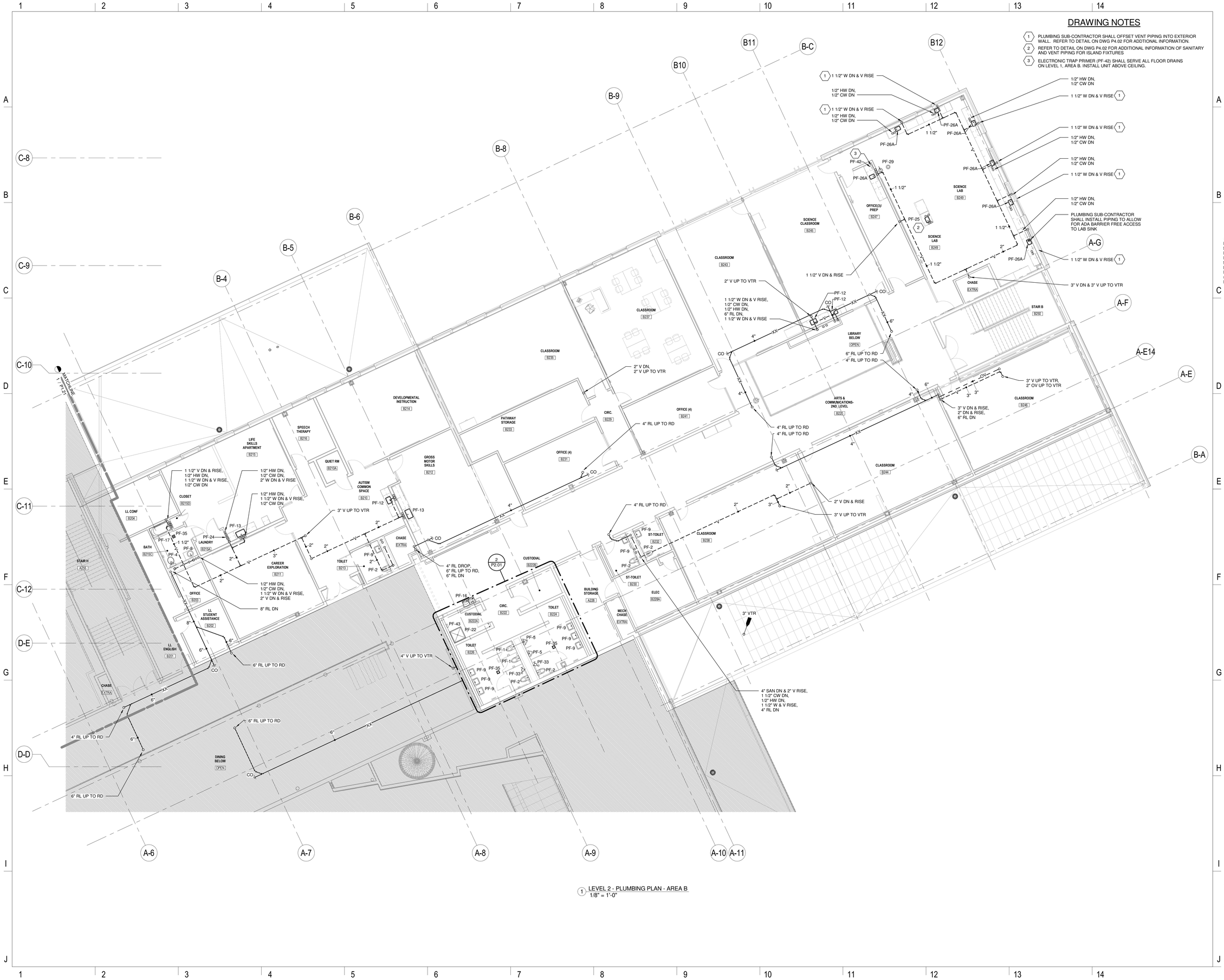
DRAWING NOTES

1. PLUMBING SUB-CONTRACTOR SHALL OFFSET VENT PIPING INTO EXTERIOR WALL. REFER TO DETAIL ON DWG P4.02 FOR ADDITIONAL INFORMATION.
2. REFER TO DETAIL ON DWG P4.02 FOR ADDITIONAL INFORMATION OF SANITARY AND VENT PIPING FOR ISLAND FIXTURES
3. ELECTRONIC TRAP PRIMER (PF-42) SHALL SERVE ALL FLOOR DRAINS ON LEVEL 1, AREA B. INSTALL UNIT ABOVE CEILING.



1 LEVEL 2 - PLUMBING PLAN - AREA B
1/8" = 1'-0"

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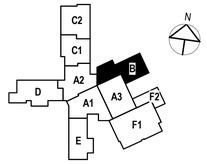

CONTENT:
SECOND FLOOR PLUMBING PLAN - AREA B

DRAWN BY:	A. SAK
PROJECT NO:	12-067-00
DATE:	02/11/2016
REVISED:	
SCALE:	1/8" = 1'-0"

P1.23

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DRAWING NOTES

1. ELECTRONIC TRAP PRIMER SHALL SERVE ALL FLOOR DRAINS LOCATED ON SECOND FLOOR, AREA C1
2. PLUMBING SUB-CONTRACTOR SHALL PROVIDE CONDENSATE RECIEVER DRAIN FOR MECHANICAL CONDENSATE DRAINS IN THIS LOCATION. REFER TO DETAIL ON DWG P4.03 FOR ADDTIONAL INFORMATION.

1 LEVEL 2 - PLUMBING PLAN - AREA C1
1/8" = 1'-0"

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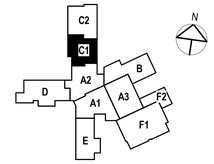

CONTENT:
SECOND FLOOR PLUMBING PLAN - AREA C1

DRAWN BY:	A. SAK
PROJECT NO:	12-067-00
DATE:	02/11/2016
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SCALE:	1/8" = 1'-0"

P1.24

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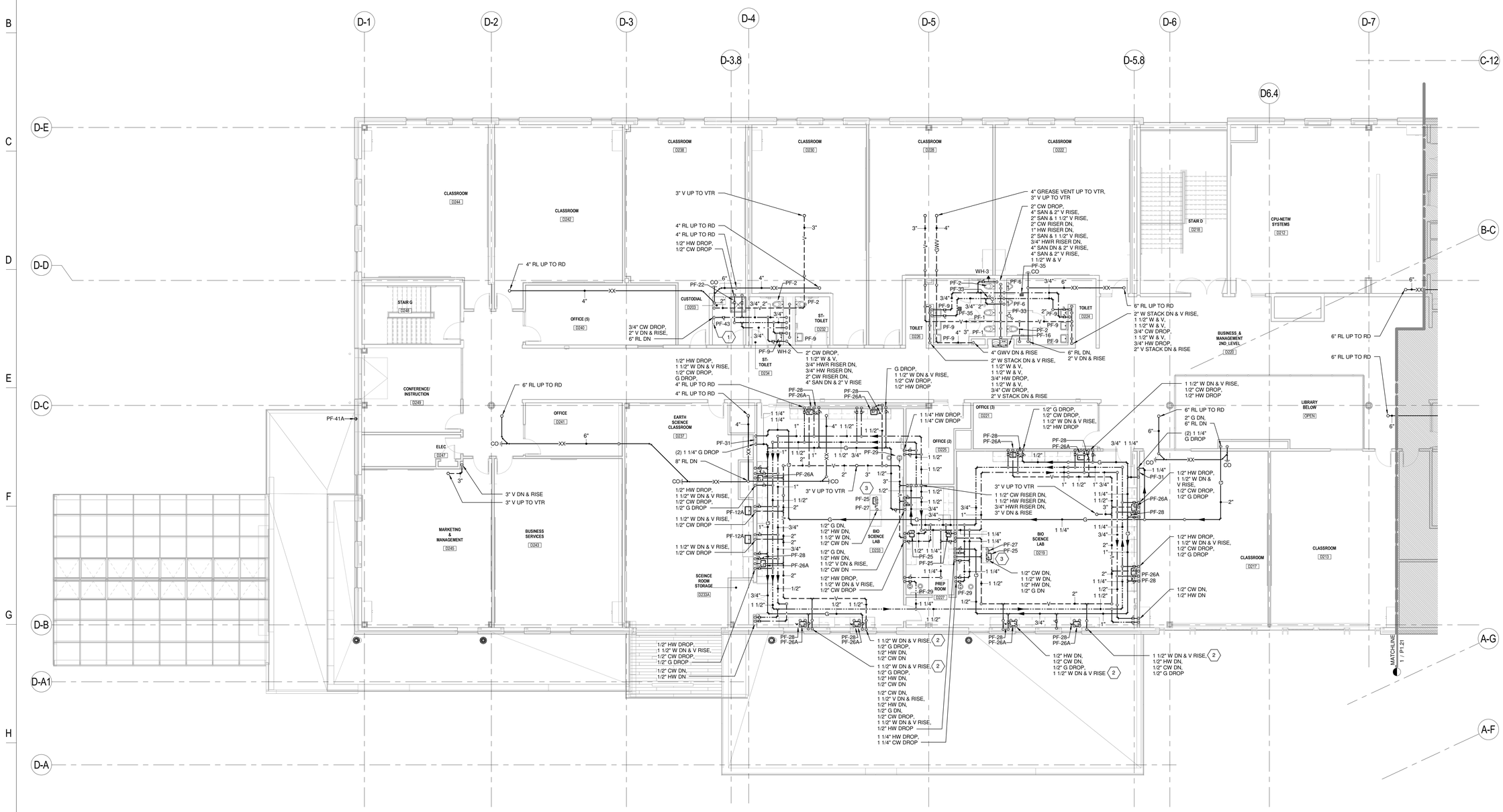
DRAWING NOTES

1. ELECTRONIC TRAP PRIMER (PF-43) SHALL SERVE ALL FLOOR DRAINS ON LEVEL 2 AREA D.
2. PLUMBING SUB-CONTRACTOR SHALL OFFSET VENT PIPING INTO EXTERIOR WALL. REFER TO DETAIL ON DWG P4.02 FOR ADDTIONAL INFORMATION.
3. REFER TO DETAIL ON DWG P4.02 FOR ADDITIONAL INFORMATION OF SANITARY AND VENT PIPING FOR ISLAND FIXTURES



1 LEVEL 2 - PLUMBING PLAN - AREA D
1/8" = 1'-0"

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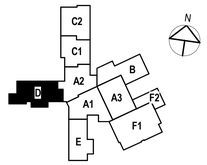

CONTENT:
SECOND FLOOR PLUMBING PLAN - AREA D

DRAWN BY:	A. SAK
PROJECT NO:	12-067-00
DATE:	02/11/2016
REVISED:	
SCALE:	1/8" = 1'-0"

P1.26

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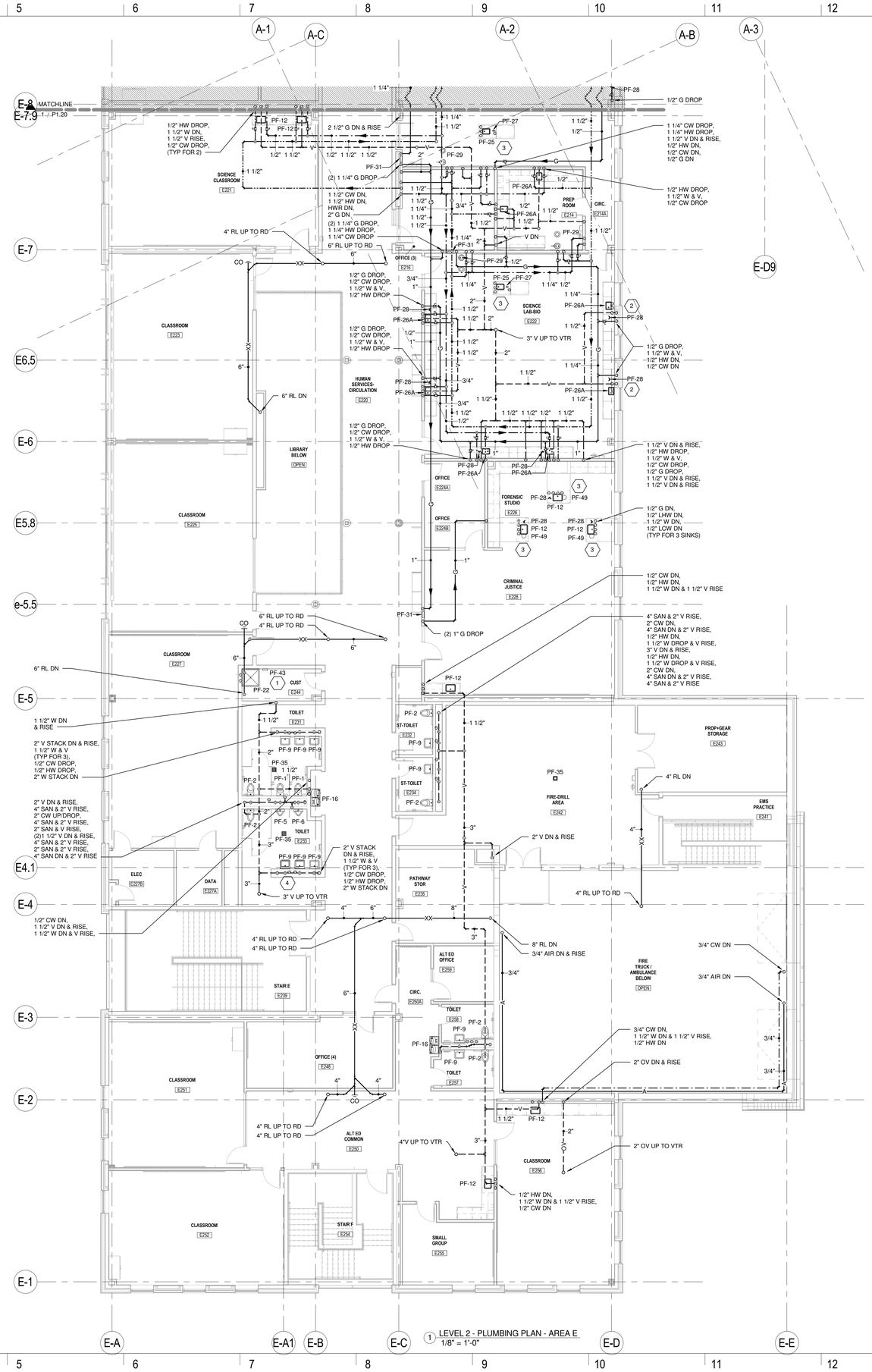

1 LEVEL 2 - PLUMBING PLAN - AREA E
1/8" = 1'-0"

DRAWING NOTES

1. ELECTRONIC TRAP PRIMER (PF-43) SHALL SERVE ALL FLOOR DRAINS IN AREA E.
2. PLUMBING SUB-CONTRACTOR SHALL OFFSET VENT PIPING INTO EXTERIOR WALL. REFER TO DETAIL ON DWG P4.02 FOR ADDTIONAL INFORMATION.
3. REFER TO DETAIL ON DWG P4.02 FOR ADDITIONAL INFORMATION OF SANITARY AND VENT PIPING FOR ISLAND FIXTURES
4. PLUMBING SUB-CONTRACTOR SHALL PROVIDE CONDENSATE RECIEVER DRAIN FOR MECHANICAL CONDENSATE DRAINS IN THIS LOCATION. REFER TO DETAIL ON DWG P4.03 FOR ADDTIONAL INFORMATION.

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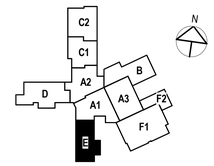

CONTENT:
SECOND FLOOR PLUMBING PLAN - AREA E

DRAWN BY:	A. SAK
PROJECT NO:	12-067-00
DATE:	02/11/2016
REVISED:	
SCALE:	1/8" = 1'-0"

P1.27

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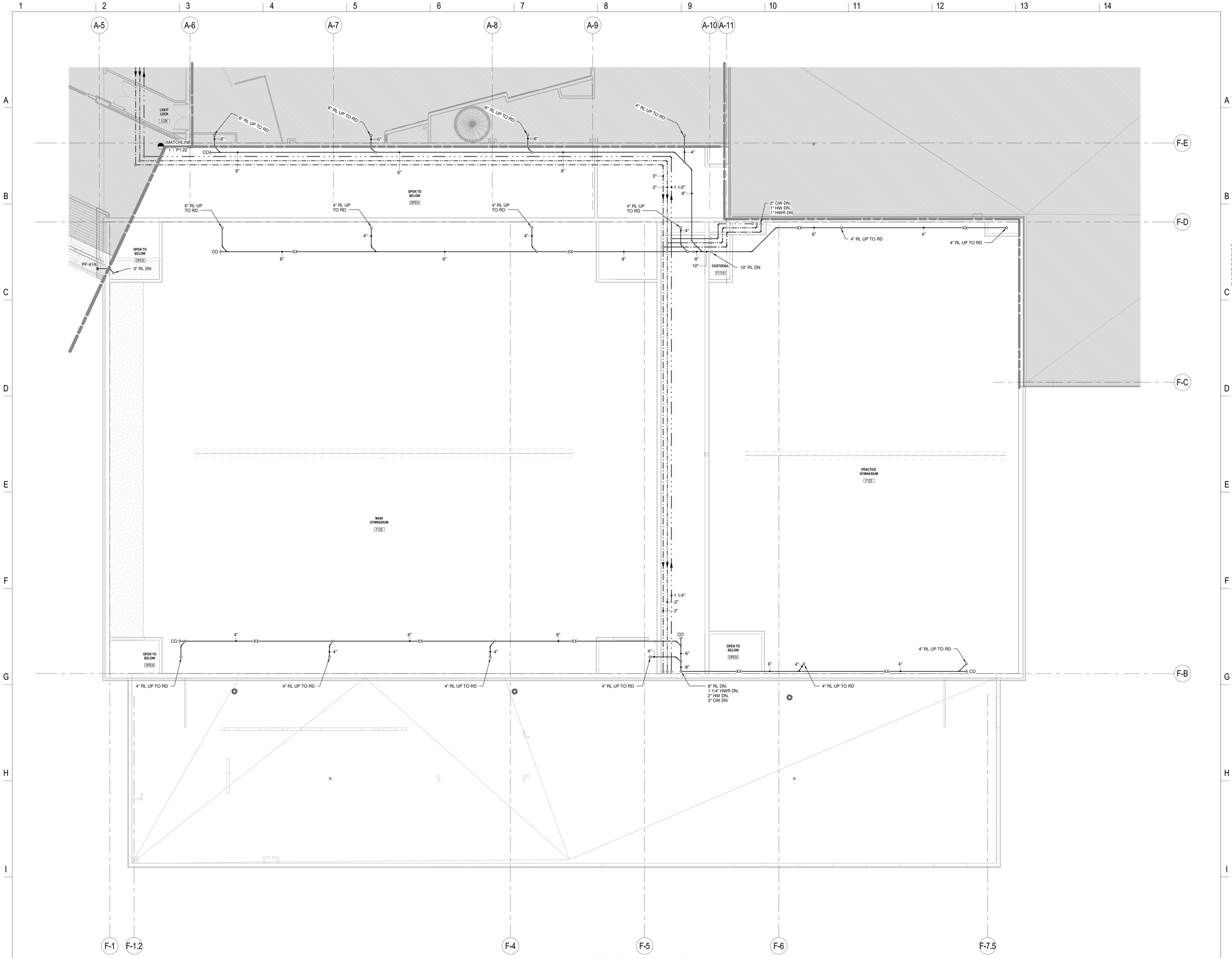

1 LEVEL 2 - PLUMBING PLAN - AREA F1
1/8" = 1'-0"

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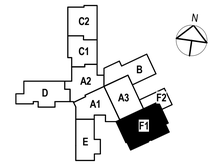

CONTENT:
SECOND FLOOR PLUMBING PLAN - AREA F1

DRAWN BY:	A. SAK
PROJECT NO:	12-067-00
DATE:	02/11/2016
REVISED:	
SCALE:	1/8" = 1'-0"

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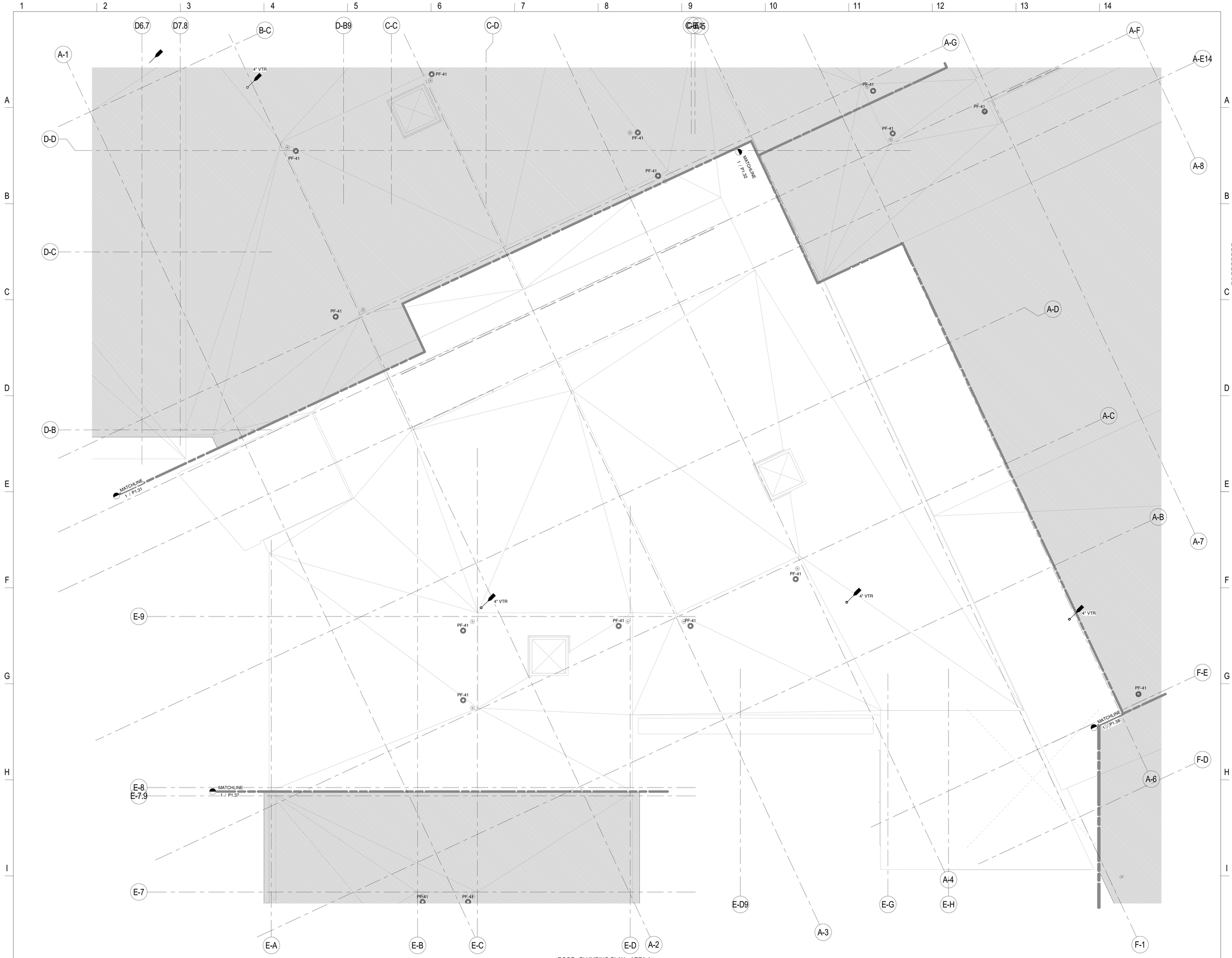

1 ROOF - PLUMBING PLAN - AREA A1
1/8" = 1'-0"

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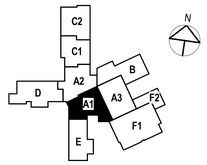

CONTENT:
ROOF PLUMBING PLAN - AREA A1

DRAWN BY:	A. SAK
PROJECT NO:	12-067-00
DATE:	02/11/2016
REVISED:	
SCALE:	1/8" = 1'-0"

P1.30

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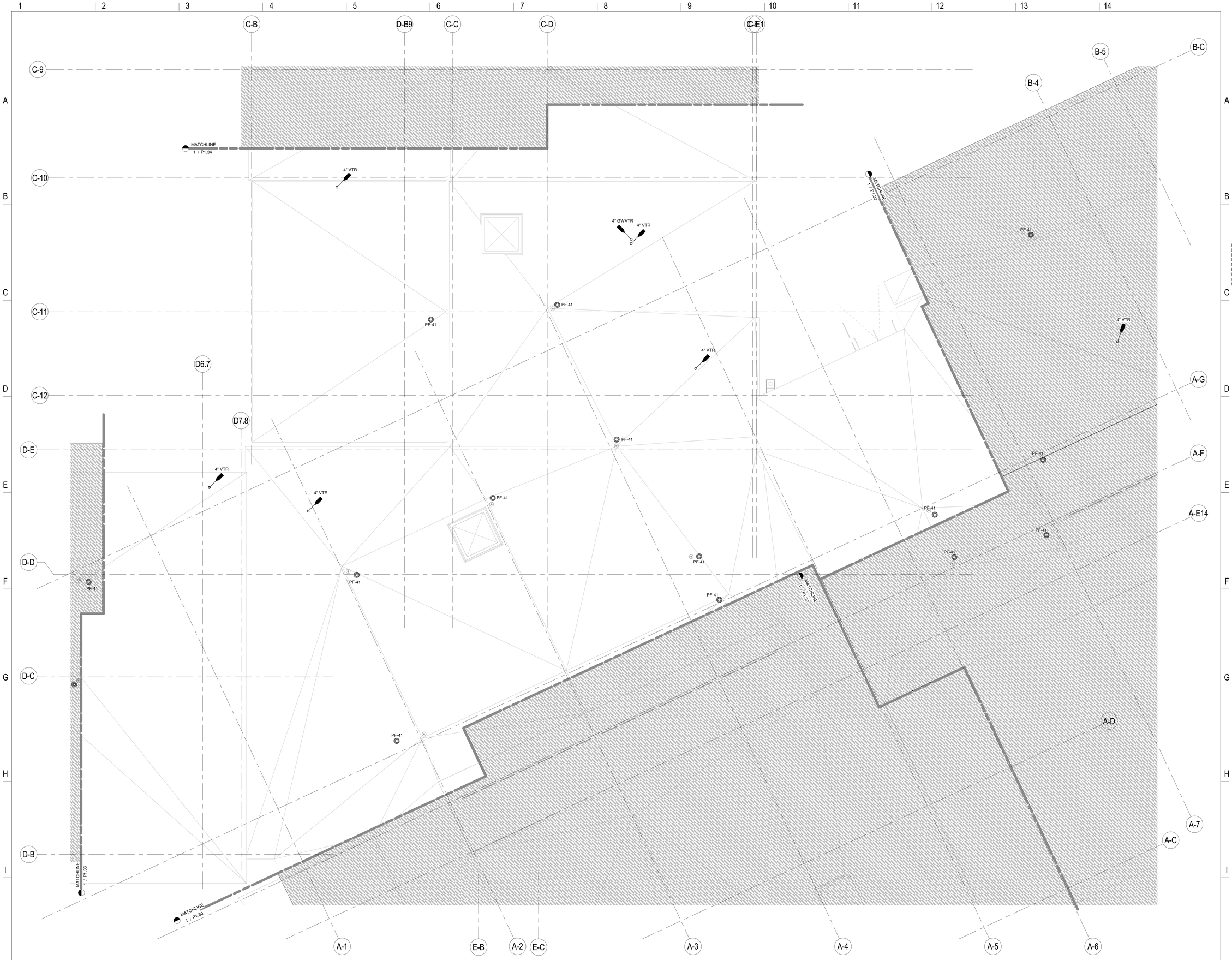

1 ROOF - PLUMBING PLAN - AREA A2
1/8" = 1'-0"

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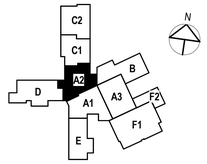

CONTENT:
ROOF PLUMBING PLAN - AREA A2

DRAWN BY:	A. SAK
PROJECT NO:	12-067-00
DATE:	02/11/2016
REVISED:	
SCALE:	1/8" = 1'-0"

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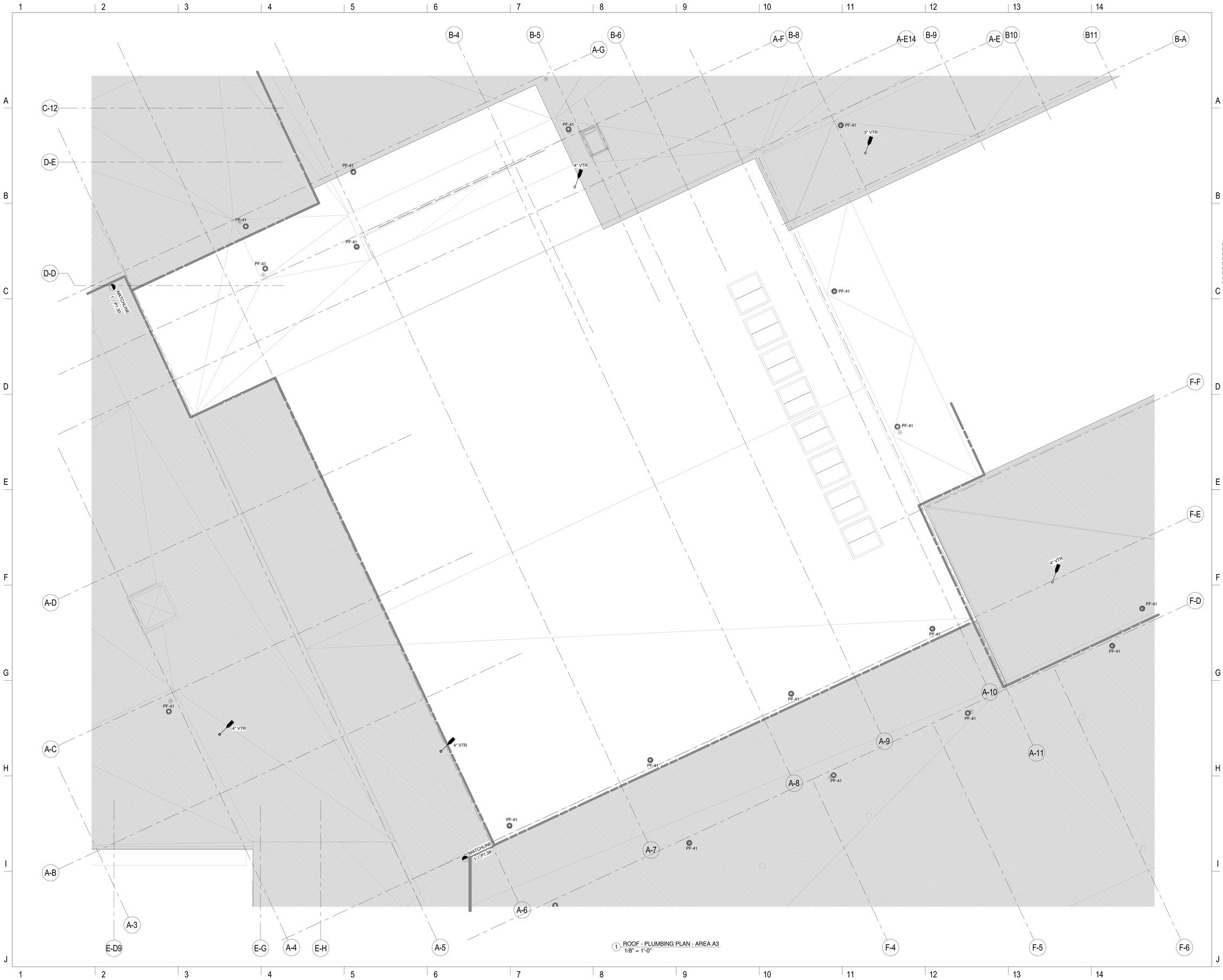

1 ROOF - PLUMBING PLAN - AREA A3
1/8" = 1'-0"

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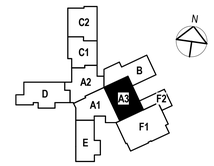

CONTENT:
ROOF PLUMBING PLAN - AREA A3

DRAWN BY:	A. SAK
PROJECT NO:	12-067-00
DATE:	02/11/2016
REVISED:	
SCALE:	1/8" = 1'-0"

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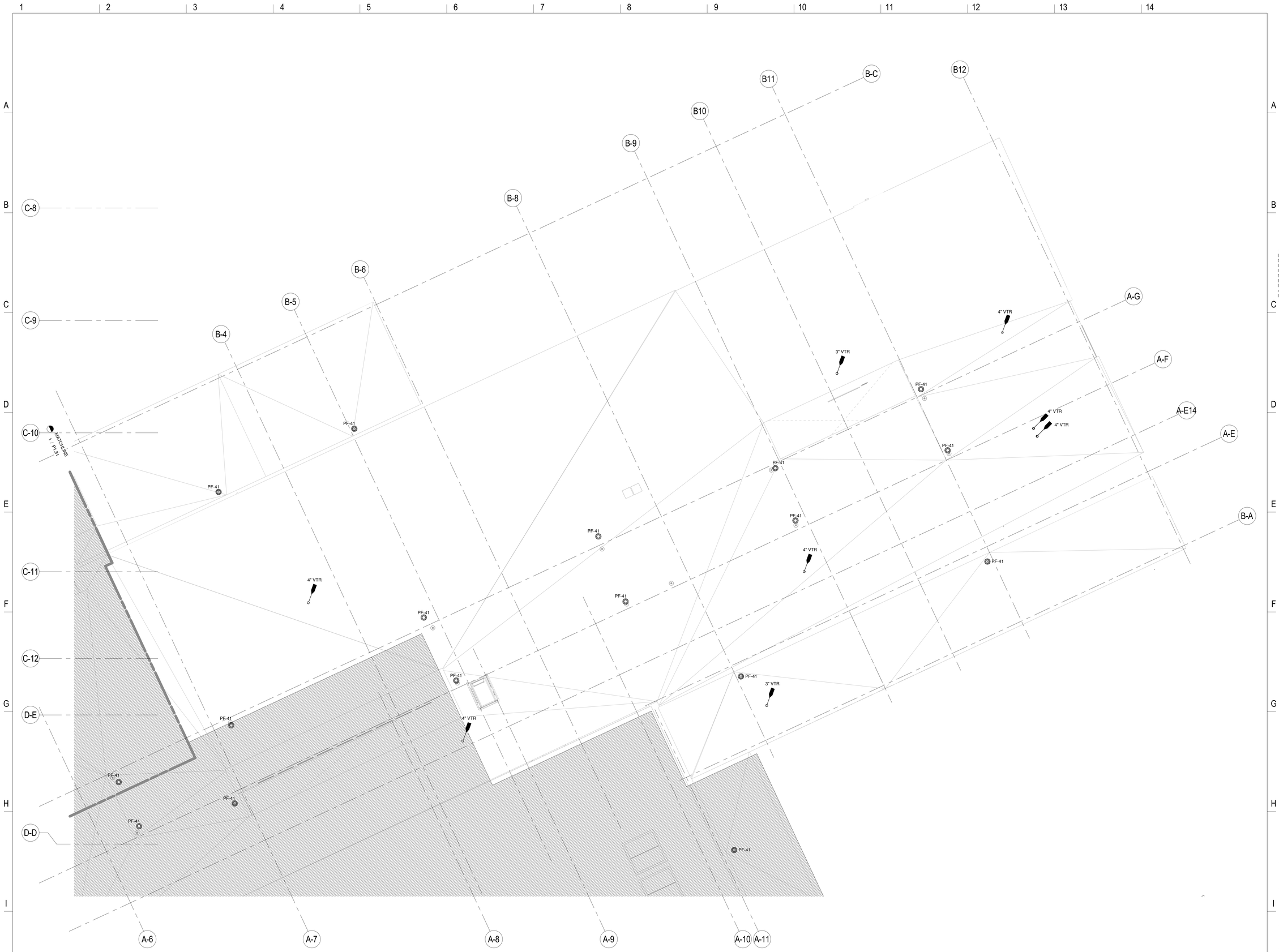

1 ROOF - PLUMBING PLAN - AREA B
1/8" = 1'-0"

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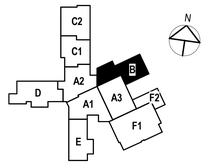

CONTENT:
ROOF PLUMBING PLAN - AREA B

DRAWN BY:	A. SAK
PROJECT NO:	12-067-00
DATE:	02/11/2016
REVISED:	
SCALE:	1/8" = 1'-0"

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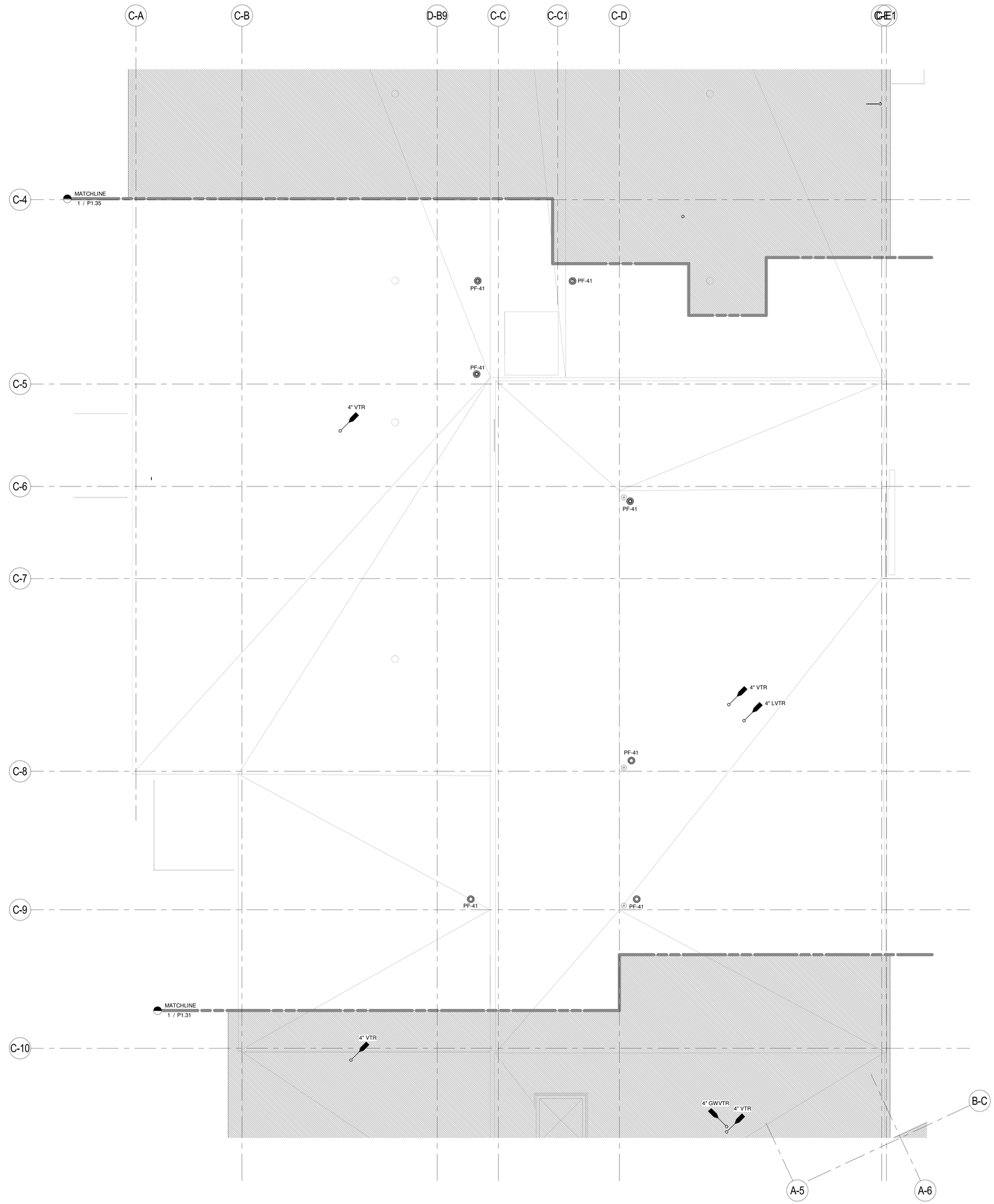

1 ROOF - PLUMBING PLAN - AREA C1
1/8" = 1'-0"

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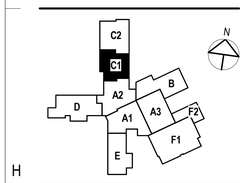

CONTENT:
ROOF PLUMBING PLAN - AREA C1

DRAWN BY:	A. SAK
PROJECT NO:	12-067-00
DATE:	02/11/2016
REVISED:	
SCALE:	1/8" = 1'-0"

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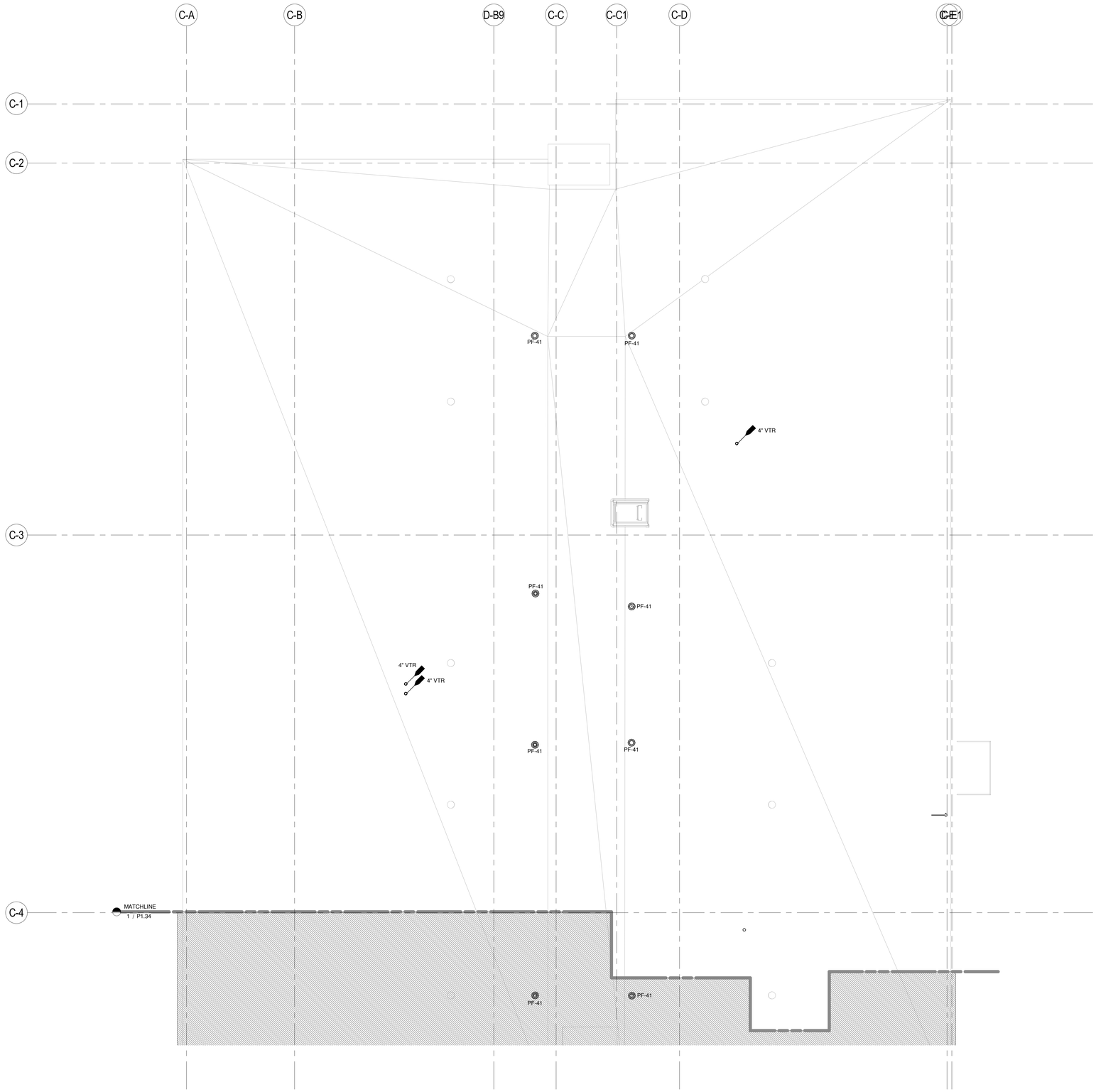

1 ROOF - PLUMBING PLAN - AREA C2
1/8" = 1'-0"

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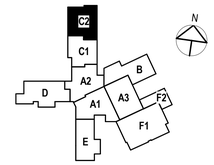

CONTENT:
ROOF PLUMBING PLAN - AREA C2

DRAWN BY:	A. SAK
PROJECT NO:	12-067-00
DATE:	02/11/2016
REVISED:	
SCALE:	1/8" = 1'-0"

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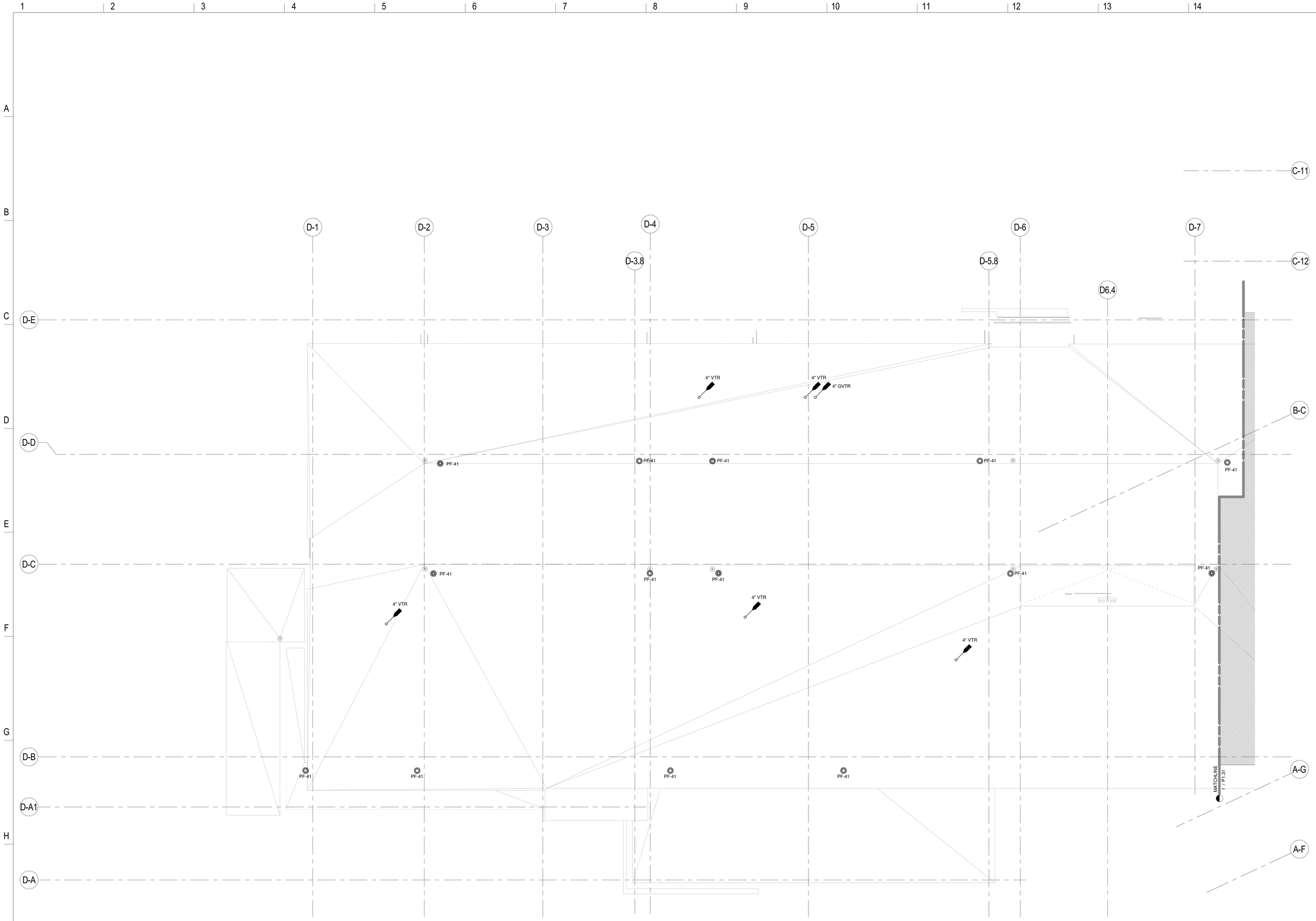

1 ROOF - PLUMBING PLAN - AREA D
1/8" = 1'-0"

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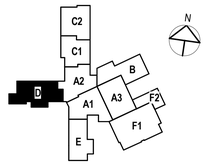

CONTENT:
ROOF PLUMBING PLAN - AREA D

DRAWN BY:	A. SAK
PROJECT NO:	12-067-00
DATE:	02/11/2016
REVISED:	
SCALE:	1/8" = 1'-0"

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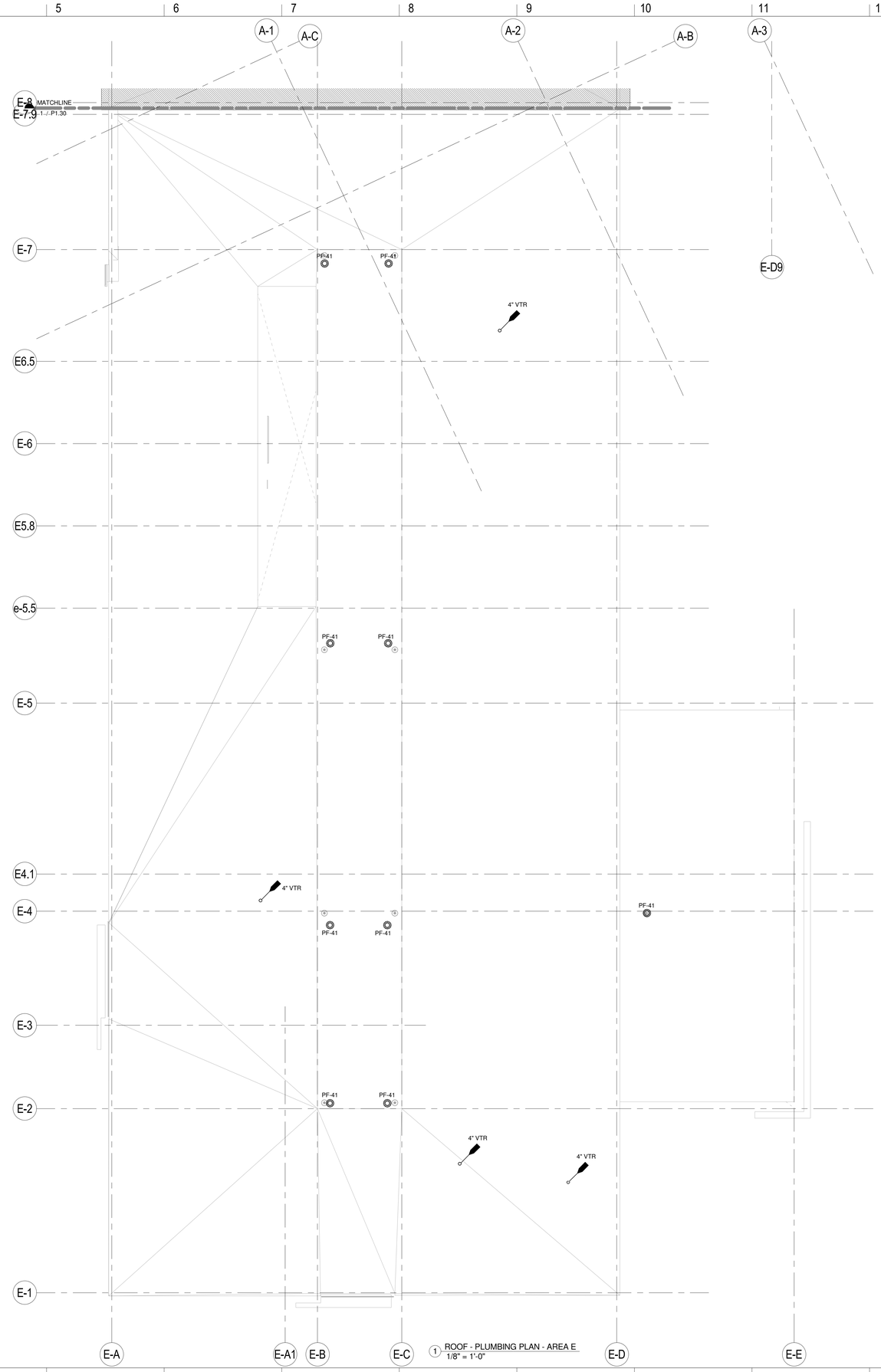

1 ROOF - PLUMBING PLAN - AREA E
1/8" = 1'-0"

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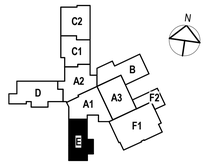

CONTENT:
ROOF PLUMBING PLAN - AREA E

DRAWN BY:	A. SAK
PROJECT NO:	12-067-00
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REVISED:	
SCALE:	1/8" = 1'-0"

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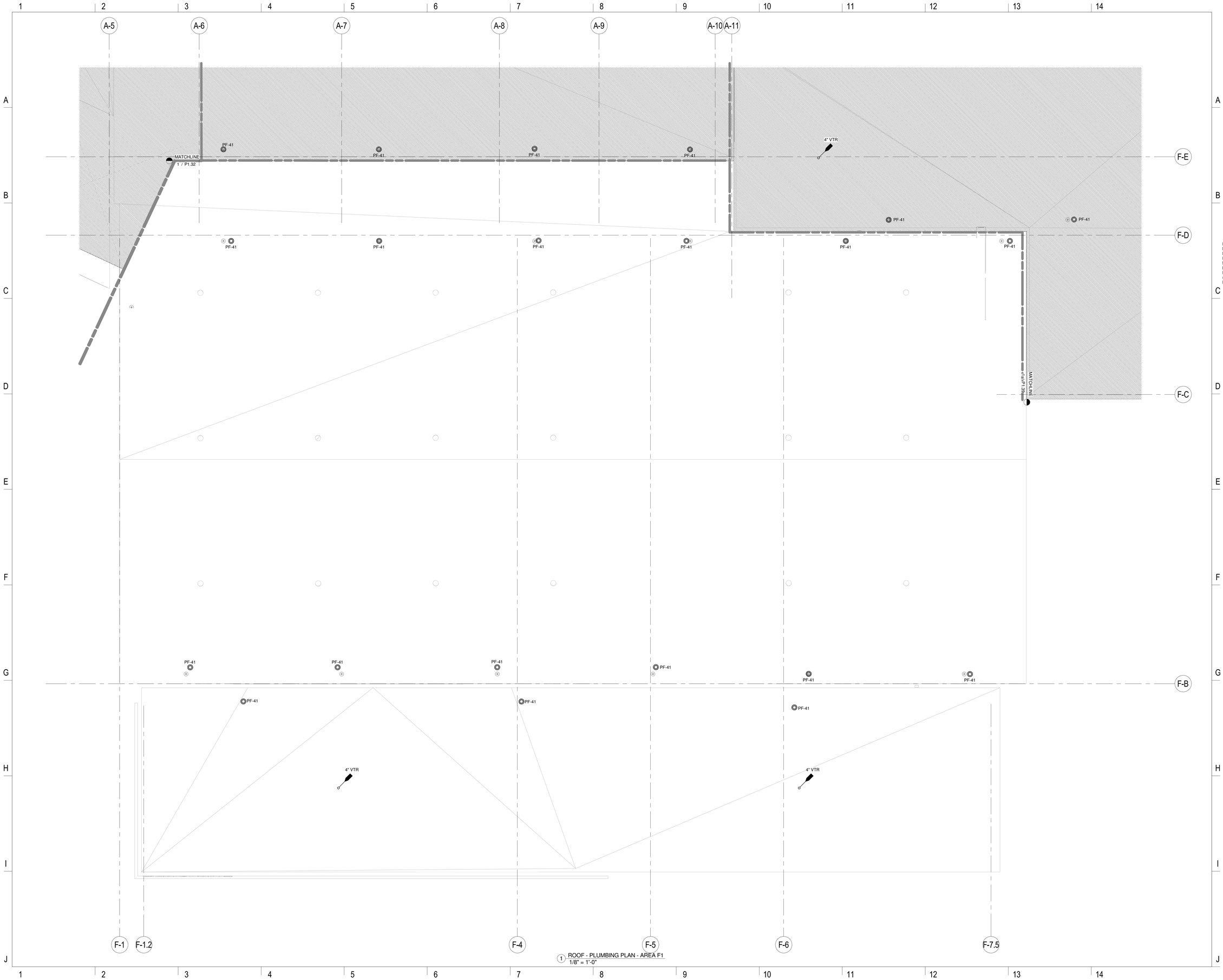

1 ROOF - PLUMBING PLAN - AREA F1
1/8" = 1'-0"

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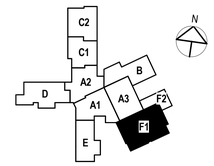

CONTENT:
ROOF PLUMBING PLAN - AREA F1

DRAWN BY:	A. SAK
PROJECT NO:	12-067-00
DATE:	02/11/2016
REVISED:	
SCALE:	1/8" = 1'-0"

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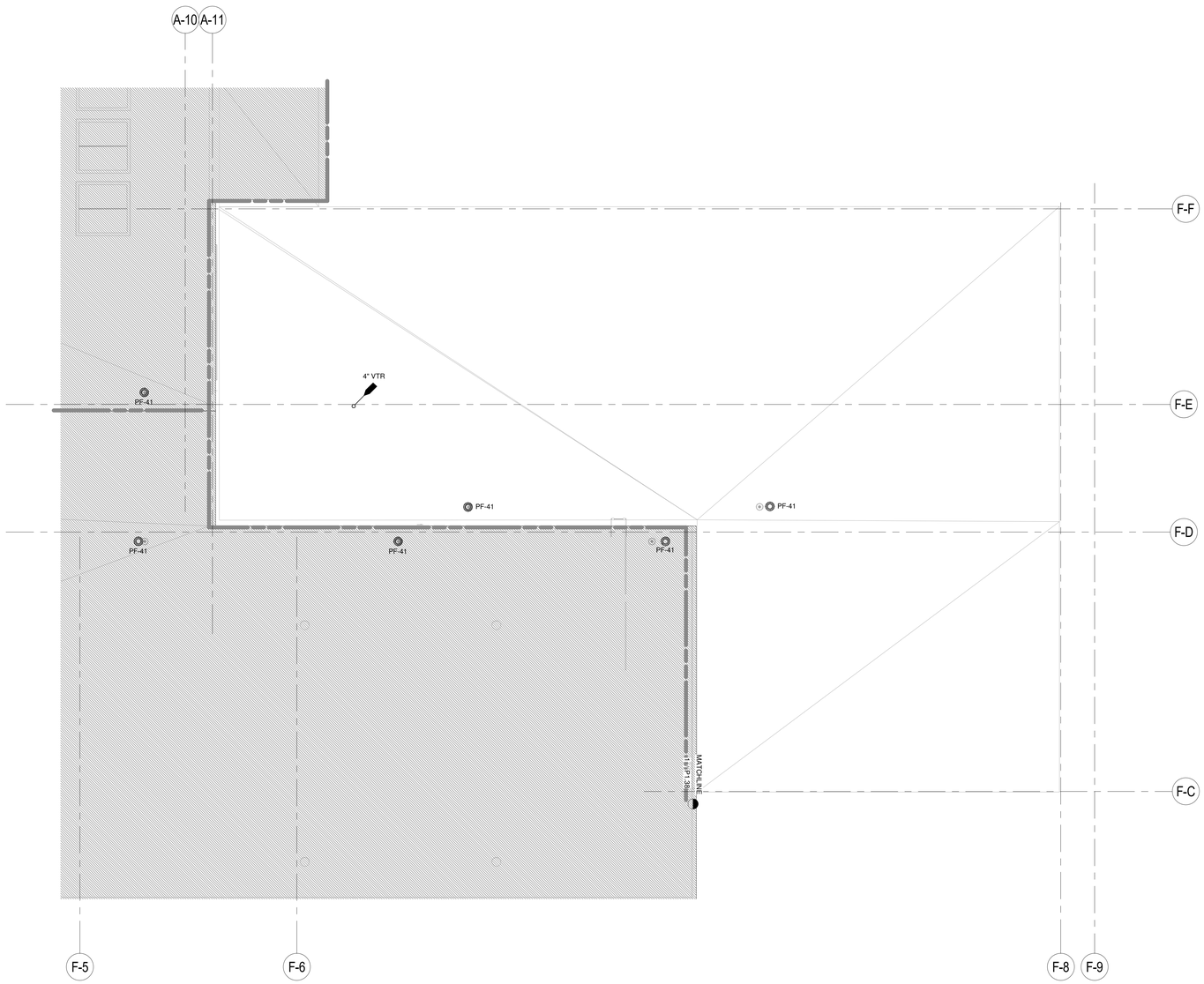

1 ROOF - PLUMBING PLAN - AREA F2
1/8" = 1'-0"

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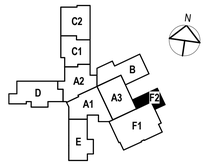

CONTENT:
ROOF PLUMBING PLAN - AREA F2

DRAWN BY:	A. SAK
PROJECT NO:	12-067-00
DATE:	02/11/2016
REVISED:	
SCALE:	1/8" = 1'-0"

P1.39

Project Phase
BID DOCUMENTS

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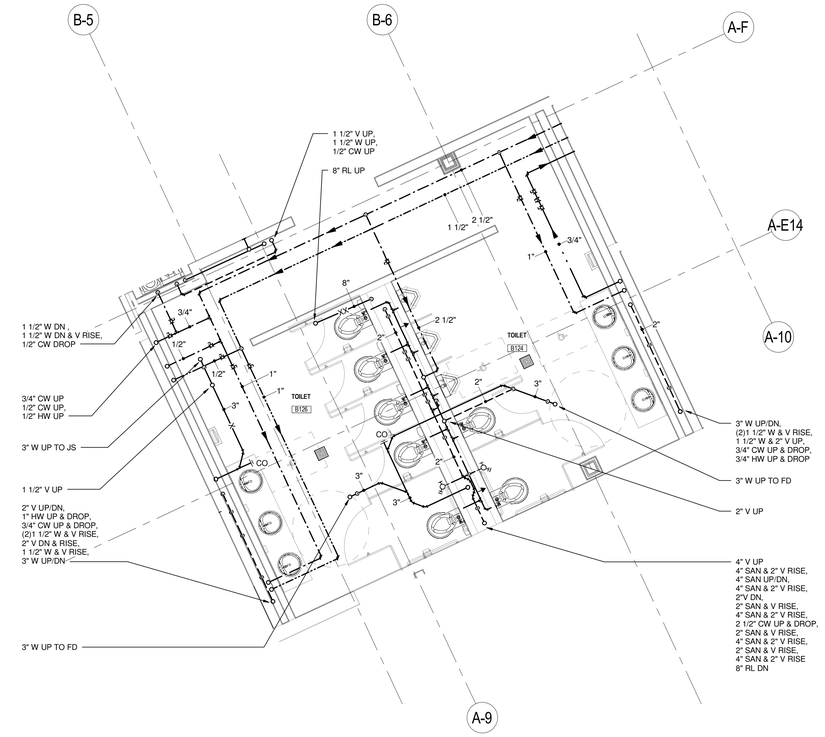
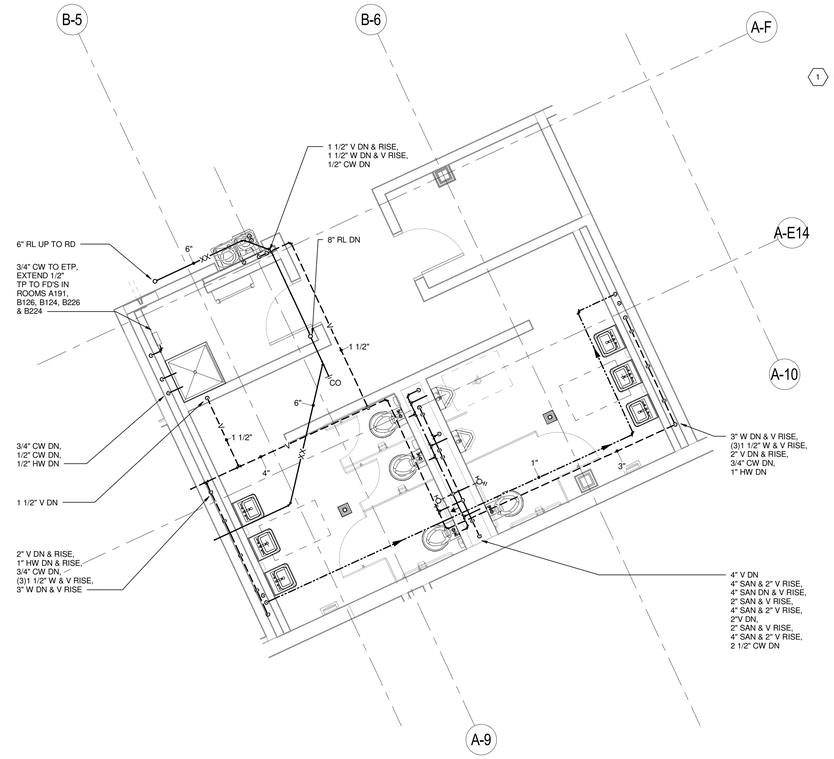


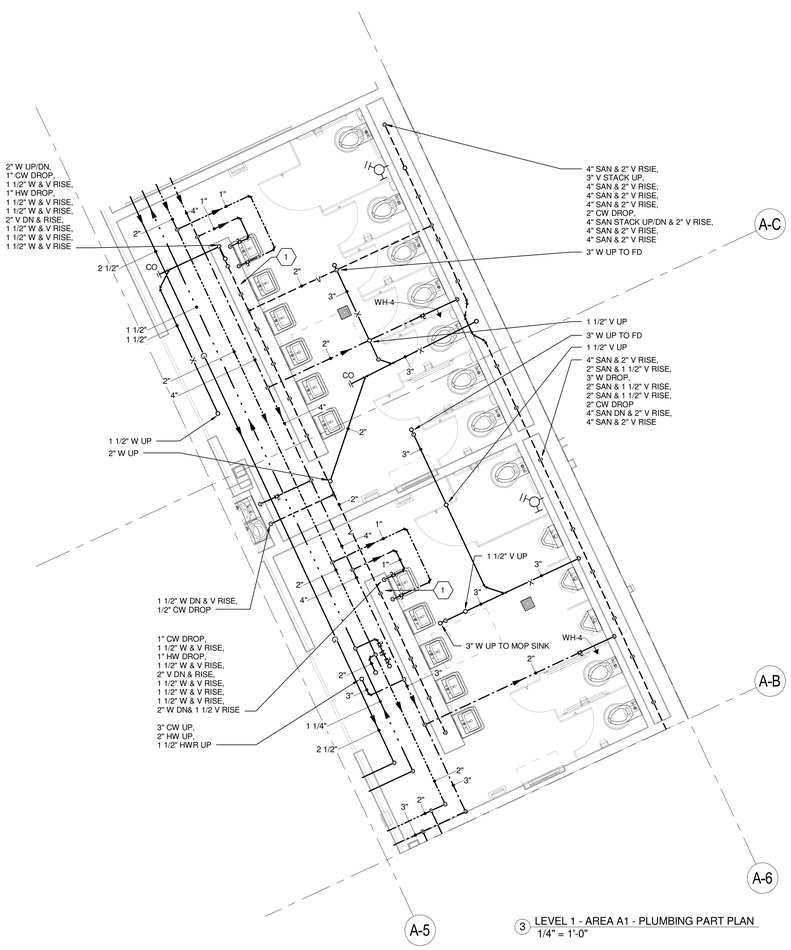
1 LEVEL 1 - AREA B - PLUMBING PART PLAN
1/4" = 1'-0"



2 LEVEL 2 - AREA B - PLUMBING PART PLAN
1/4" = 1'-0"

DRAWING NOTES

1. PLUMBING SUB-CONTRACTOR SHALL PROVIDE CONDENSATE RECIEVER DRAIN FOR MECHANICAL CONDENSATE DRAINS IN THIS LOCATION. REFER TO DETAIL ON DWG P4.03 FOR ADDTIONAL INFORMATION.



3 LEVEL 1 - AREA A1 - PLUMBING PART PLAN
1/4" = 1'-0"

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RFS Project #: 7300.001

Sanford School Department and State of Maine Department of Education

SANFORD HIGH SCHOOL and TECHNICAL CENTER

SANFORD, ME 04073

NO.	DESCRIPTION	DATE

CONTENT:
ENLARGED PLUMBING PART PLANS

DRAWN BY:	A. SAK
PROJECT NO:	12-067-00
DATE:	02/11/2016
REVISED:	
SCALE:	1/4" = 1'-0"

P2.01

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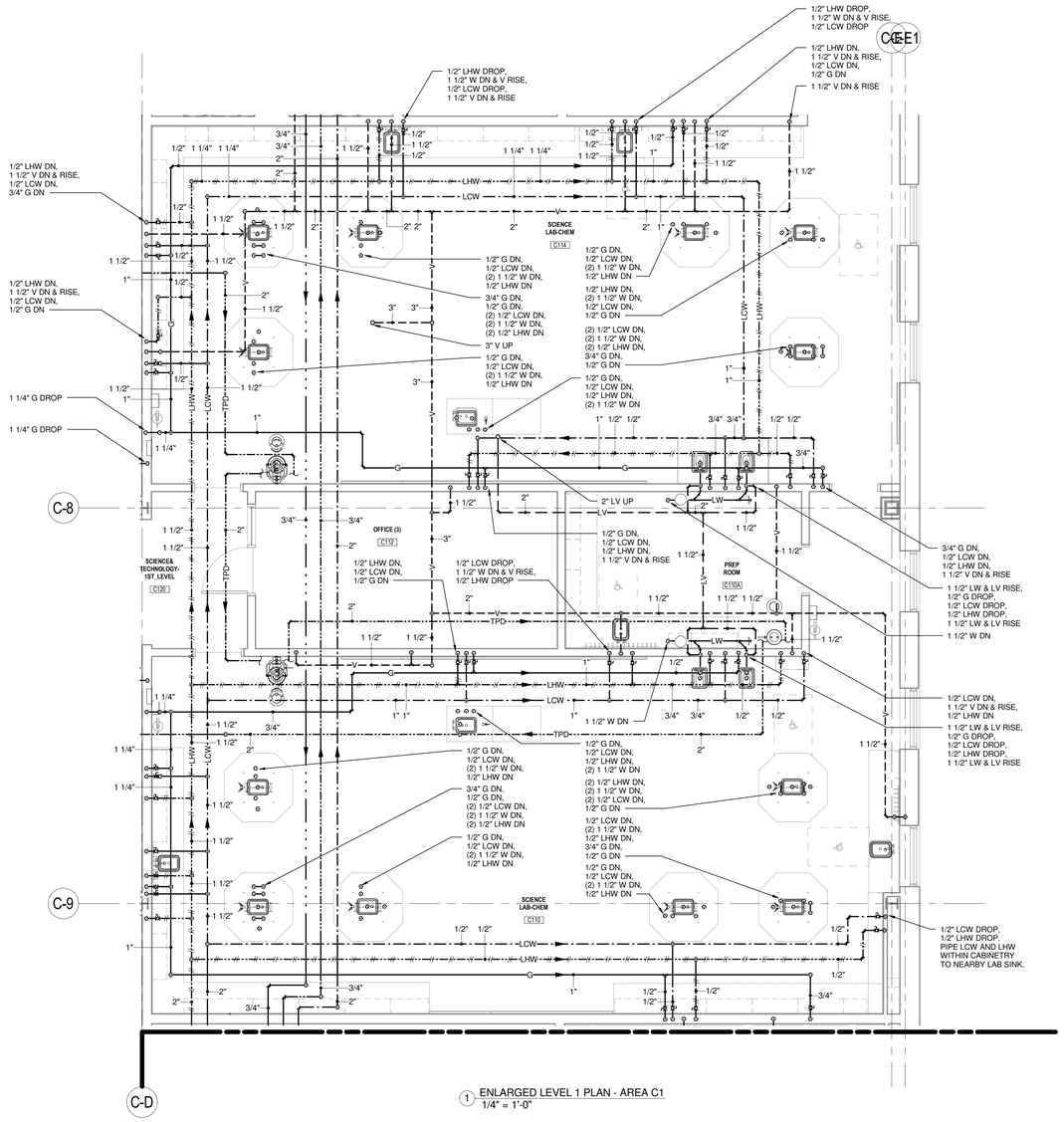

1 ENLARGED LEVEL 1 PLAN - AREA C1
1/4" = 1'-0"

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CHRISTOPHER M. SHUMWAY
No. 10687
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PROFESSIONAL ENGINEER

Sanford School Department and
State of Maine Department of
Education

SANFORD HIGH SCHOOL and TECHNICAL CENTER

SANFORD, ME 04073

NO.	DESCRIPTION	DATE

N

FOR ADDITIONAL INFORMATION, REFER TO PROJECT MANUAL.

CONTENT:
ENLARGED PLUMBING PART PLANS

DRAWN BY:	A. SAK
PROJECT NO:	12-067-00
DATE:	02/11/2016
REVISED:	
SCALE:	1/4" = 1'-0"

P2.02

Project Phase
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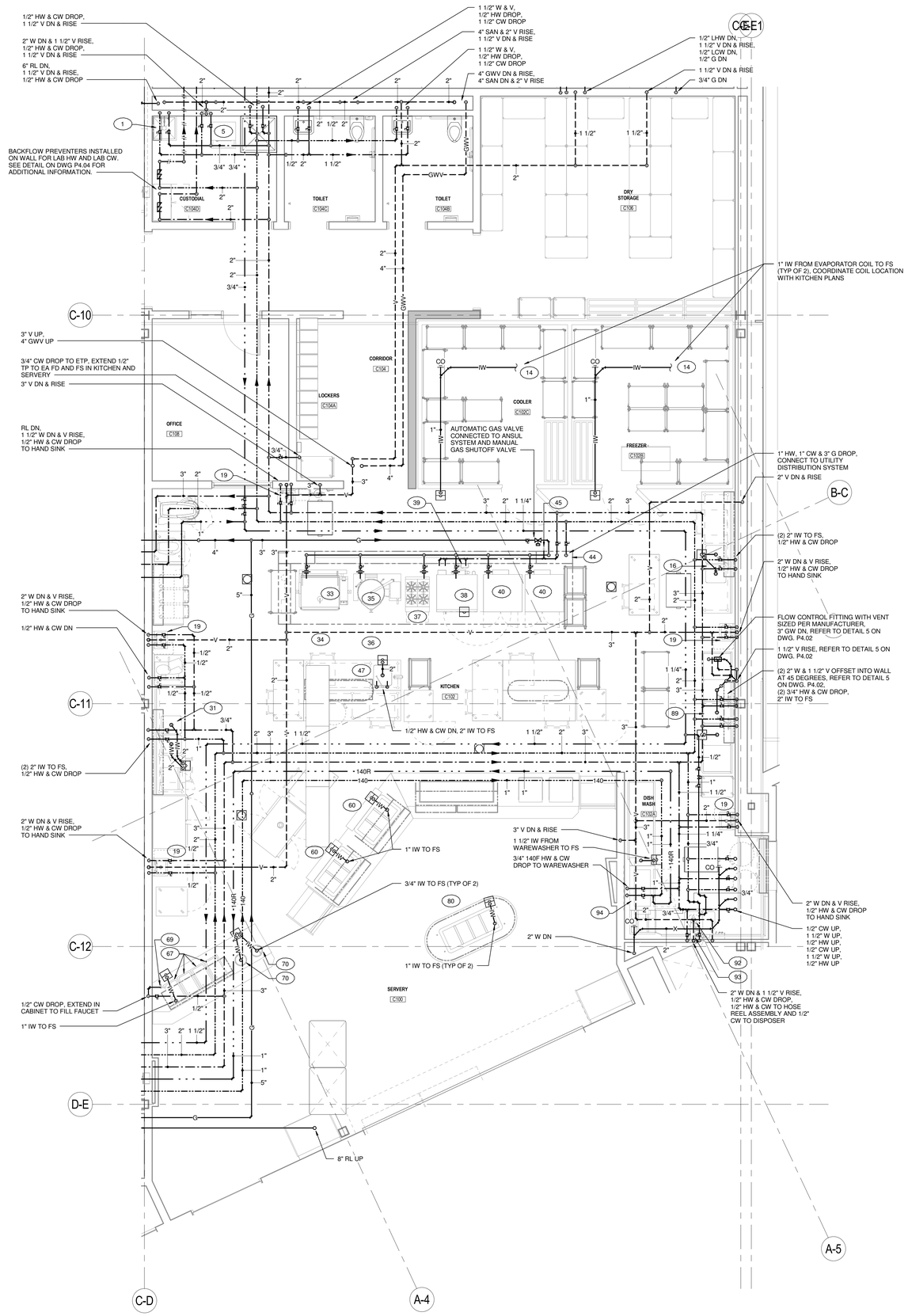


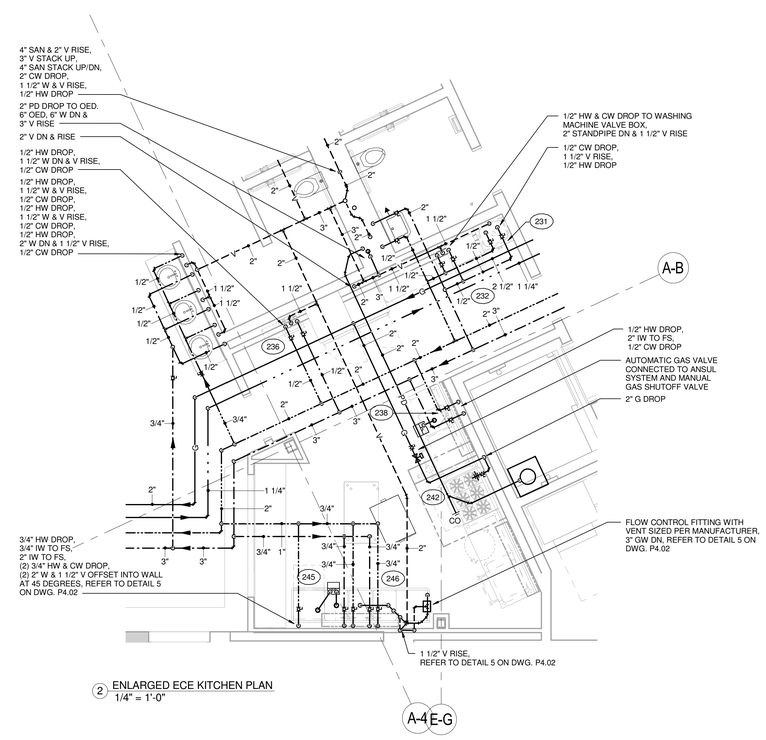
1 ENLARGED CAFETERIA KITCHEN PLAN
1/4" = 1'-0"

CAFETERIA EQUIPMENT CONNECTIONS

ITEM	DESCRIPTION	QTY.	PLUMBING CONNECTIONS						NOTES
			HW	CW	IW	W	GW	GAS/MBTU	
1	MOP SINK	1	1/2"	1/2"	-	3"	-	-	REFER TO PLUMBING FIXTURE SCHEDULE -
5	STACKED CLOTHES WASHER/DRYER	1	1/2"	1/2"	1"	2"	-	-	IW TO STANDPIPE -
14	REMOTE REFRIGERATION SYSTEMS	2	-	-	1"	-	-	-	IW TO FS -
16	PREP COUNTER WITH SINKS	1	1/2"	1/2"	(2) 2"	-	-	-	IW TO FS -
19	HAND SINKS	5	1/2"	1/2"	-	1 1/2"	-	-	120F HW -
31	PREP COUNTER WITH SINKS	1	1/2"	1/2"	(2) 2"	-	-	-	IW TO FS -
33	FORTY-GALLON BRAISING PAN	1	-	-	-	-	-	144	1/2" G CONNECTION FROM ITEM 44 -
34	FLOOR PAN & GRATE	1	-	-	-	-	3"	-	GW CONNECTION 7" BELOW FLOOR GW TO GI
35	FORTY-GALLON TILT KETTLE	1	-	-	-	-	-	100	1/2" G CONNECTION FROM ITEM 44 -
36	FLOOR PAN & GRATE	1	-	-	-	-	3"	-	GW CONNECTION 7" BELOW FLOOR GW TO GI
37	FOUR-BURNER RANGE WITH OVEN	1	-	-	-	-	-	136	3/4" G CONNECTION FROM ITEM 44
38	DOUBLE COMBINATION OVEN	1	-	(2) 3/4"	2"	-	-	115	(2) 3/4" G CONNECTION IW TO FS G FROM ITEM 44, CW FROM ITEM 39 AND ITEM 44
39	WATER FILTER	1	-	3/4"	-	-	-	-	CW FROM ITEM 44 -
40	DOUBLE CONVECTION OVEN	2	-	-	-	-	-	100	3/4" G CONNECTION FROM ITEM 44
44	UTILITY DISTRIBUTION SYSTEM	1	1"	1"	-	-	-	810	2" G CONNECTION -
45	UTILITY FAUCET	1	1/2"	-	-	-	-	-	FROM ITEM 44 -
47	COOK'S TABLE W/SINK & OVERSHELF	1	1/2"	1/2"	2"	-	-	-	IW TO FS -
60	MECHANICAL COLD PANS	2	-	-	1"	-	-	-	IW TO FS -
67	HOT FOOD WELLS (MOUNTED IN GROUP)	4	-	-	1"	-	-	-	IW TO FS -
69	FILL FAUCET	1	1/2"	-	-	-	-	-	- -
70	SOUP WELLS	2	-	-	1/2"	-	-	-	IW TO FS -
80	MECHANICAL COLD PAN	1	-	-	1"	-	-	-	IW TO FS -
89	THREE COMPARTMENT SINK	1	(2) 3/4"	(2) 3/4"	2"	-	(2) 2"	-	120F HW GW TO GI IW TO FS
92	DISPOSER	1	-	1/2"	-	2"	-	-	- -
93	HOSE REEL ASSEMBLY	1	1/2"	1/2"	-	-	-	-	- -
94	WAREWASHER	1	3/4"	3/4"	1 1/2"	-	-	-	140F HW IW TO FS -

ECE KITCHEN EQUIPMENT CONNECTIONS

ITEM	DESCRIPTION	QTY.	PLUMBING CONNECTIONS						NOTES
			HW	CW	IW	W	GW	GAS/MBTU	
231	MOP SINK CABINET	1	1/2"	1/2"	-	2"	-	-	- -
232	STACKED CLOTHES WASHER/DRYER	1	1/2"	1/2"	1"	2"	-	-	IW TO STANDPIPE -
236	HAND SINK	1	1/2"	1/2"	-	1 1/2"	-	-	120F HW -
238	WORK COUNTER WITH SINKS	1	1/2"	1/2"	2"	-	-	-	IW TO FS -
242	SIX-BURNER RANGE W/ OVEN	1	-	-	-	-	-	194	3/4" G CONNECTION -
245	UNDERCOUNTER WAREWASHER	1	3/4"	-	3/4"	-	-	-	IW TO FS -
246	THREE-COMPARTMENT SINK	1	(2) 3/4"	(2) 3/4"	2"	-	(2) 2"	-	120F HW GW TO GI IW TO FS



2 ENLARGED ECE KITCHEN PLAN
1/4" = 1'-0"

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SANFORD, ME 04073

NO.	DESCRIPTION	DATE

CONTENT:
ENLARGED KITCHEN PLANS

DRAWN BY:	M. LAROCQUE
PROJECT NO:	12-067-00
DATE:	02/11/2016
REVISED:	
SCALE:	1/4" = 1'-0"

P3.01

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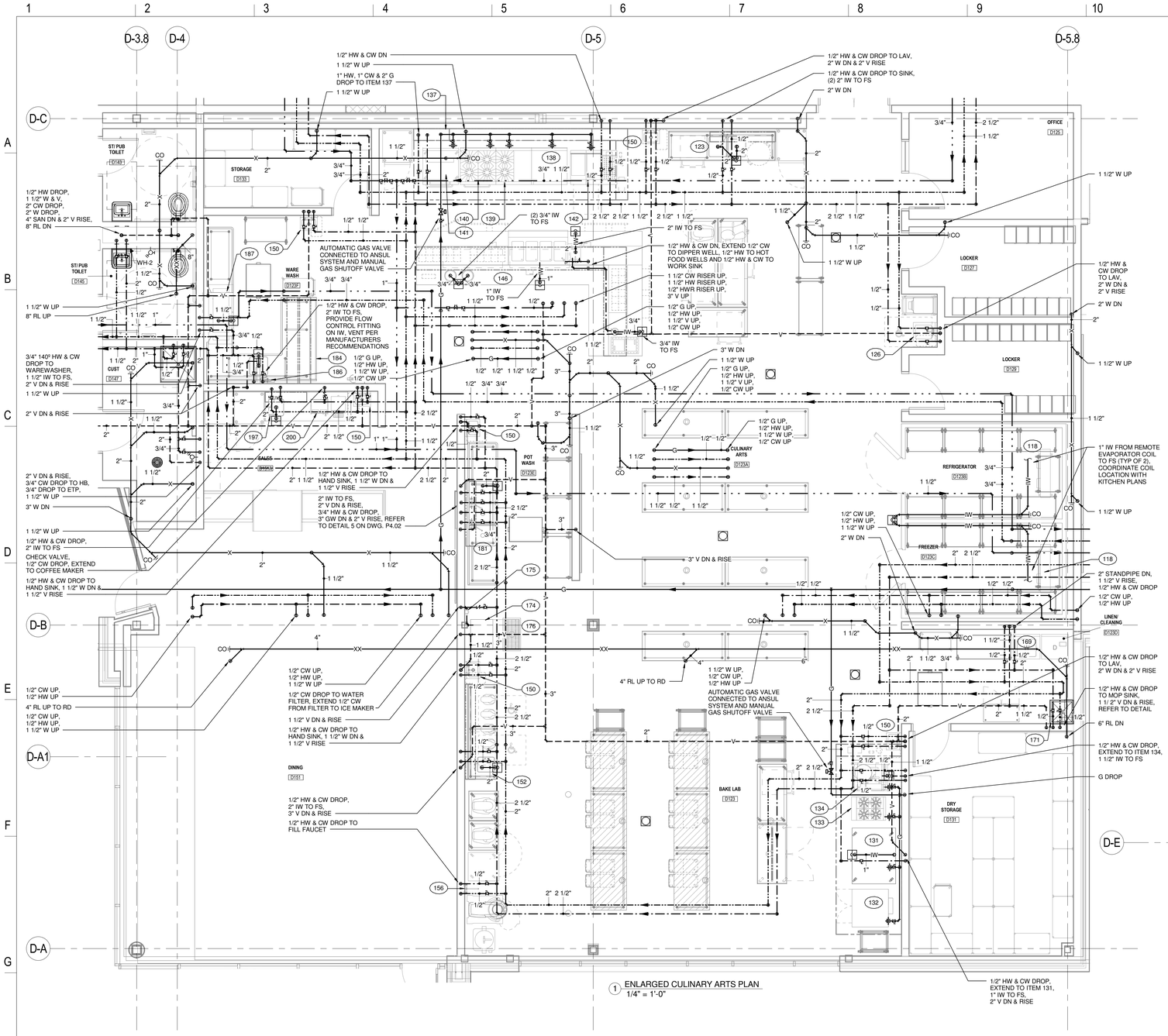
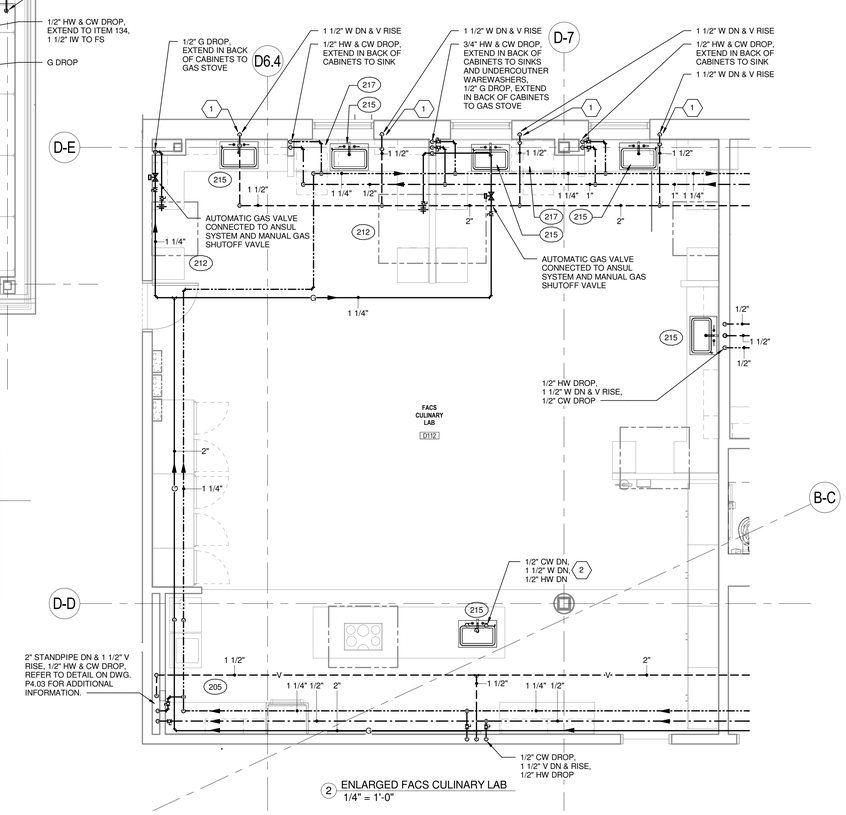


1 ENLARGED CULINARY ARTS PLAN
1/4" = 1'-0"

CULINARY ARTS EQUIPMENT CONNECTIONS

ITEM	DESCRIPTION	QTY.	PLUMBING CONNECTIONS HW	CW	IW	W	GW	GAS/MBTU	NOTES
118	MECHANICAL REFRIGERATION SYSTEM	2	-	-	1"	-	-	-	IW TO FS -
123	PREP COUNTER WITH SINKS	1	1/2"	1/2"	(2) 2"	-	-	-	IW TO FS -
126	ACCESSIBLE HAND SINK	1	1/2"	1/2"	-	1 1/2"	-	-	120F HW -
131	DECK OVEN (FOUR DECKS)	1	-	1/2"	1/2"	-	-	-	IW TO FS -
132	DOUBLE CONVECTION OVEN	1	-	-	-	-	-	100	3/4" G CONNECTION -
133	FOUR BURNER RANGE WITH OVEN	1	-	-	-	-	-	136	3/4" G CONNECTION -
134	FORTY-QUART KETTLE W/DRAIN STAND	1	1/2"	1/2"	1 1/2"	-	-	52	1/2" G CONNECTION IW TO FS -
137	UTILITY DISTRIBUTION SYSTEM	1	1"	1"	-	-	-	600	2" G CONNECTION -
138	GRIDDLE RANGE WITH CABINET BASE	1	-	-	-	-	-	60	1" G CONNECTION G FROM ITEM 137 -
139	TWO-BURNER/HOT TOP RANGE	1	-	-	-	-	-	100	1" G CONNECTION G FROM ITEM 137 -
140	FOUR-BURNER RANGE W/OVEN	1	-	-	-	-	-	160	1" G CONNECTION FROM ITEM 137
141	UPRIGHT BROILER WITH OVEN BASE	1	-	-	-	-	-	120	3/4" G CONNECTION FROM ITEM 137
142	FRYER ASSEMBLY W/DUMP STATION	1	-	-	-	-	-	160	1" G CONNECTION FROM ITEM 137
146	CHEF'S COUNTER ASSEMBLY	1							1" G CONNECTION FROM ITEM 137
	(2) SOUP WELLS		-	-	(2) 1/2"	-	-	-	IW TO FS -
	HOT FOOD WELLS		1/2"	-	1"	-	-	-	IW TO FS -
	WORK SINK		1/2"	1/2"	2"	-	-	-	IW TO FS -
	DIPPER WELL		-	1/2"	1/2"	-	-	-	IW TO FS -
150	HAND SINKS	6	1/2"	1/2"	-	1 1/2"	-	-	120F HW -
152	ACCESSIBLE PREP STATION WITH SINK	1	1/2"	1/2"	2"	-	-	-	IW TO FS -
156	FILL FAUCET	1	1/2"	1/2"	-	-	-	-	- -
169	CLOTHES WASHER	1	1/2"	1/2"	1"	1 1/2"	-	-	IW TO STANDPIPE -
171	MOP SINK	1	1/2"	1/2"	-	3"	-	-	REFER TO PLUMBING FIXTURE SCHEDULE -
174	ICE MAKER WITH BIN	1	1/2"	-	(2) 3/4"	-	-	-	1/2" CW FROM ITEM 175 IW TO ITEM 176 -
175	WATER FILTER	1	1/2"	-	-	-	-	-	CW TO ITEM 174 -
176	FLOOR PAN & GRATE	1	-	-	-	3"	-	-	IW FROM ITEM 174 W CONNECTION 7" BELOW FLOOR -
181	THREE COMPARTMENT SINK	1	(2) 3/4"	(2) 3/4"	2"	-	(2) 2"	-	120F HW GW TO ITEM IW TO FS
184	SOILED WARE LANDING TABLE	1	-	-	-	2"	-	-	- -
186	HOSE REEL ASSEMBLY	1	1/2"	1/2"	-	-	-	-	- -
187	WAREWASHER	1	3/4"	3/4"	1 1/2"	-	-	-	140F HW IW TO FS
197	WORK COUNTER WITH SINK	1	1/2"	1/2"	2"	-	-	-	IW TO FS -
200	COFFEE BREWER	1	-	1/2"	-	-	-	-	- -



2 ENLARGED FACS CULINARY LAB
1/4" = 1'-0"

DRAWING NOTES

1. PLUMBING SUB-CONTRACTOR SHALL OFFSET VENT PIPING INTO EXTERIOR WALL. REFER TO DETAIL ON DWG P4.02 FOR ADDTIONAL INFORMATION.
2. REFER TO DETAIL ON DWG P4.02 FOR ADDITIONAL INFORMATION OF SANITARY AND VENT PIPING FOR ISLAND FIXTURES

FACS CULINARY LAB EQUIPMENT CONNECTIONS

ITEM	DESCRIPTION	QTY.	PLUMBING CONNECTIONS HW	CW	IW	W	GW	GAS/MBTU	NOTES
205	CLOTHES WASHER	1	1/2"	1/2"	1"	1 1/2"	-	-	IW TO STANDPIPE -
212	RESIDENTIAL STYLE GAS RANGE W/OVEN	2	-	-	-	-	-	63.1	1/2" G CONNECTION -
215	DROP-IN SINK WITH FAUCET	6	1/2"	1/2"	-	1 1/2"	-	-	- -
217	UNDERCOUNTER WAREWASHERS	2	3/4"	-	3/4"	-	(2) 2"	-	120F HW IW TO FS

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SANFORD, ME 04073

NO.	DESCRIPTION	DATE

CONTENT:
ENLARGED KITCHEN PLANS

DRAWN BY:	M. LAROCQUE
PROJECT NO:	12-067-00
DATE:	02/11/2016
REVISED:	
SCALE:	1/4" = 1'-0"

P3.02

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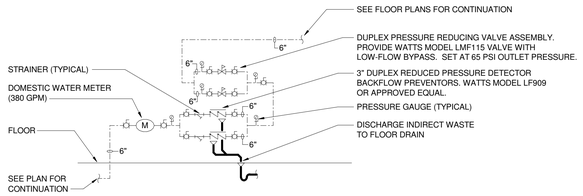
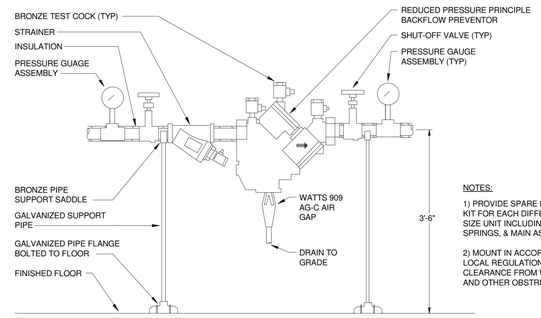


1 DOMESTIC WATER SERVICE ENTRANCE DETAIL
NTS

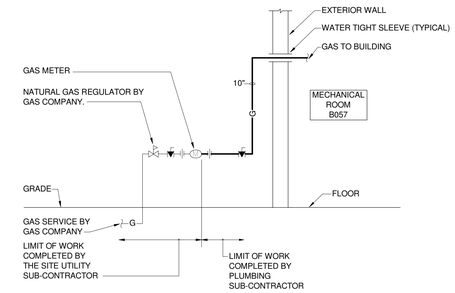


NOTES:

1) PROVIDE SPARE PARTS KIT FOR EACH DIFFERENT SIZE UNIT INCLUDING GASKETS, SPRINGS, & MAIN ASSEMBLIES.

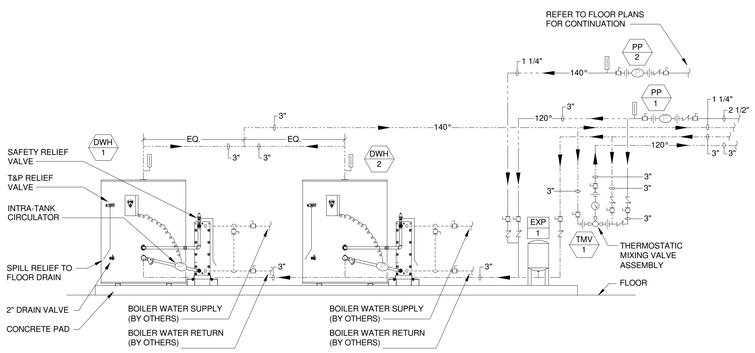
2) MOUNT IN ACCORDANCE WITH LOCAL REGULATIONS WITH CLEARANCE FROM WALLS, FLOOR, AND OTHER OBSTRUCTIONS.

2 DOMESTIC WATER REDUCED PRESSURE BACKFLOW PREVENTER DETAIL
NTS

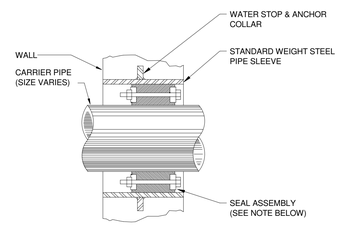


3 NATURAL GAS SERVICE DETAIL
NTS

NOTES:
COORDINATE FINAL GAS METER AND PRESSURE REGULATOR INSTALLATION REQUIREMENTS WITH GAS COMPANY



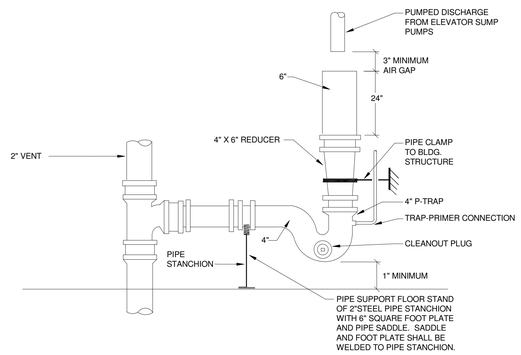
4 DUPLEX WATER TO WATER DOMESTIC WATER HEATER
NTS



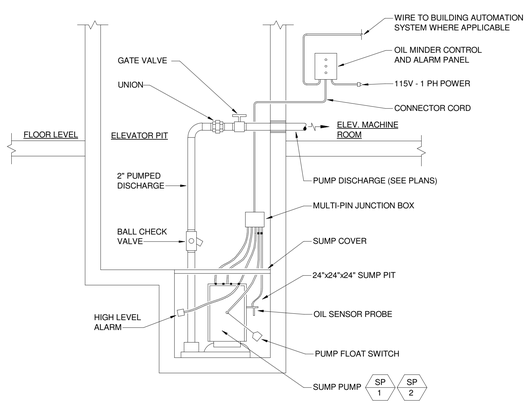
NOTES:

SEAL ASSEMBLY SHALL BE MODULAR MECHANICAL TYPE CONSISTING OF INTERLOCKING RUBBER LINKS SHAPED TO CONTINUOUSLY FILL IN THE ANNULAR SPACE BETWEEN PIPE AND WALL OPENING. PRESSURE PLATES SHALL BE DELRIN PLASTIC, BOLTS & NUTS SHALL BE 18.8 STAINLESS STEEL, SEALING ELEMENTS SHALL BE EPDM RUBBER.

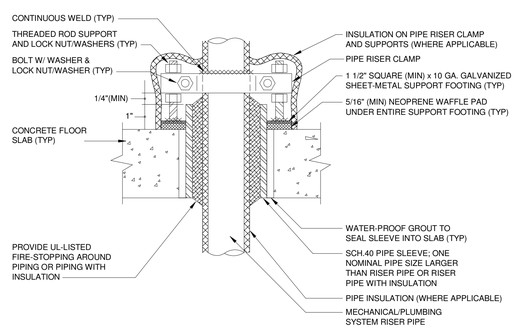
5 WATER TIGHT SEAL DETAIL
NTS



6 OPEN END DRAIN DETAIL
NTS



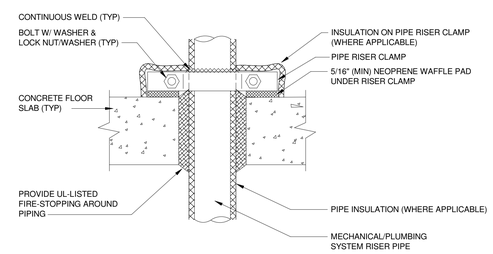
7 ELEVATOR SUMP PUMP & OIL DETECTION LOCK OUT DETAIL
NTS



NOTES:

1. PROVIDE RISER SUPPORT AS SHOWN AT EACH RISER PIPE FLOOR PENETRATION ABOVE THE BASE (INITIAL) FLOOR PENETRATION IN WET-WALLS, MECHANICAL ROOMS, AND KITCHENS.
2. PROVIDE UL-LISTED FIRE-STOPPING AT FLOOR PENETRATION SURROUNDING PIPE.
3. PROVIDE NEOPRENE GASKET WHERE BELOW AMBIENT TEMPERATURE FLUIDS ARE BEING CONVEYED IN PIPING (I.E., COLD OR CHILLED WATER, STORM WATER)
4. FOR INSULATED PIPING, CONTINUE PIPE INSULATION THRU THE FLOOR PENETRATION AND PROVIDE FIRE-STOPPING AROUND INSULATION AS REQUIRED. WHERE BELOW AMBIENT TEMPERATURE FLUIDS ARE CONVEYED IN THE PIPING (I.E., COLD OR CHILLED WATER, STORM WATER), INSULATION WITH A VAPOR BARRIER SHALL BE PROVIDED ON THE RISER CLAMPS AND SUPPORT LEGS AND ALL OTHER METAL IN THERMAL CONTACT WITH THE PIPING.

8 PIPE RISER SUPPORT/PENETRATION DETAIL FOR WET APPLICATIONS
NTS



NOTES:

1. PROVIDE RISER SUPPORT AS SHOWN AT EACH RISER PIPE FLOOR PENETRATION ABOVE THE BASE (INITIAL) FLOOR PENETRATION.
2. PROVIDE UL-LISTED FIRE-STOPPING AT FLOOR PENETRATION SURROUNDING PIPE.
3. PROVIDE NEOPRENE GASKET WHERE BELOW AMBIENT TEMPERATURE FLUIDS ARE BEING CONVEYED IN PIPING (I.E., COLD OR CHILLED WATER, STORM WATER)
4. FOR INSULATED PIPING, CONTINUE PIPE INSULATION THRU THE FLOOR PENETRATION AND PROVIDE FIRE-STOPPING AROUND INSULATION AS REQUIRED. WHERE BELOW AMBIENT TEMPERATURE FLUIDS ARE CONVEYED IN THE PIPING (I.E., COLD OR CHILLED WATER, STORM WATER), INSULATION WITH A VAPOR BARRIER SHALL BE PROVIDED ON THE RISER CLAMPS AND ALL OTHER METAL IN THERMAL CONTACT WITH THE PIPING.

9 PIPE RISER SUPPORT/PENETRATION DETAIL FOR DRY APPLICATIONS
NTS

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RFS Project #: 7300.001

Sanford School Department and State of Maine Department of Education

SANFORD HIGH SCHOOL and TECHNICAL CENTER

SANFORD, ME 04073

NO.	DESCRIPTION	DATE

FOR ADDITIONAL INFORMATION, REFER TO PROJECT MANUAL.

CONTENT:
PLUMBING DETAILS

DRAWN BY:	A. SAK
PROJECT NO:	12-067-00
DATE:	02/11/2016
REVISED:	
SCALE:	AS NOTED

P4.01

Project Phase
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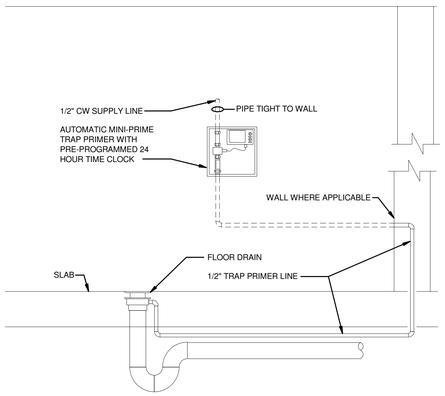
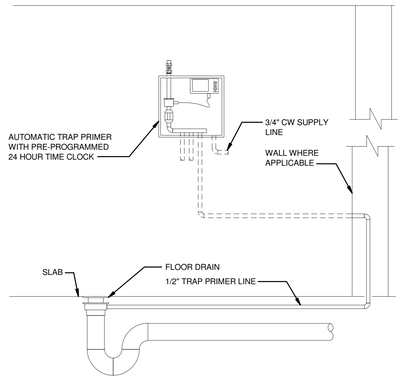
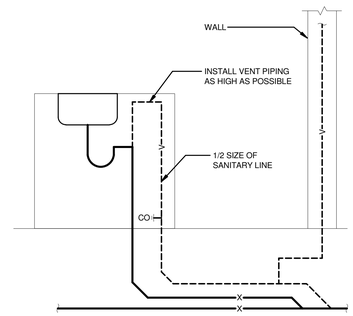


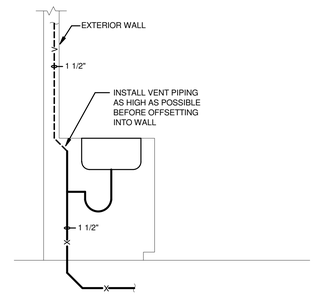
1 TYPICAL AUTOMATIC TRAP PRIMER (MINI-PRIME) INSTALLATION DETAIL
NTS



2 TYPICAL AUTOMATIC TRAP PRIMER INSTALLATION DETAIL
NTS



3 TYPICAL ISLAND FIXTURE VENTING DETAIL
NTS



4 EXTERIOR WALL SINK VENTING DETAIL
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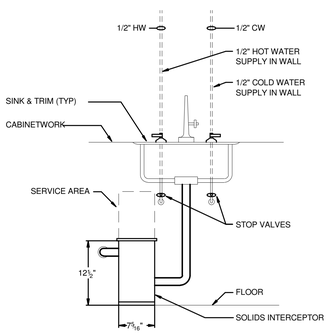
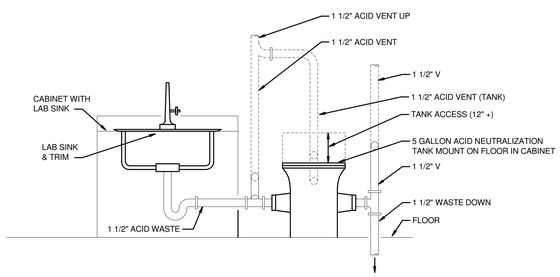
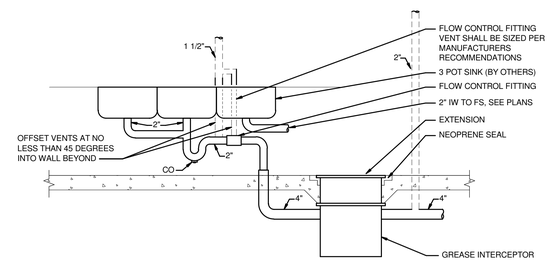


5 TYPICAL SOLIDS INTERCEPTOR DETAIL
NTS



6 TYPICAL ACID NEUTRALIZATION TANK DETAIL
NTS



7 3 POT SINK GREASE INTERCEPTOR DETAIL
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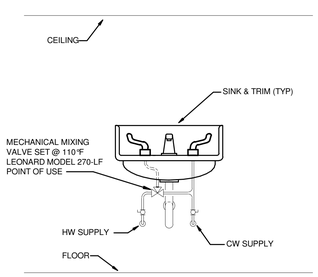
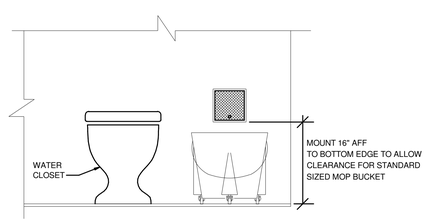


* TYPICAL FOR ALL HAND SINKS AND LAVATORIES WITH MANUAL FAUCETS

8 HAND SINKS AND LAVATORIES WITH MECHANICAL MIXING VALVE DETAIL
NTS



NOTES:

REFER TO PLUMBING DRAWINGS FOR EXACT LOCATION OF WALL HYDRANT IN GANG BATHROOMS.

9 TYPICAL WALL HYDRANT MOUNTING LOCATION IN GANG TOILET ROOMS
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SANFORD, ME 04073

NO.	DESCRIPTION	DATE

N

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CONTENT:
PLUMBING DETAILS

DRAWN BY:	A. SAK
PROJECT NO:	12-067-00
DATE:	02/11/2016
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SCALE:	

P4.02

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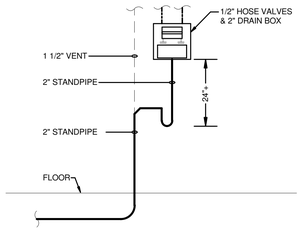
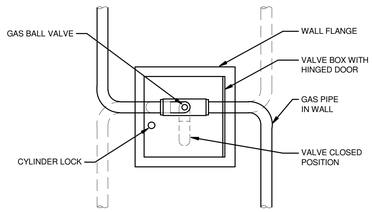
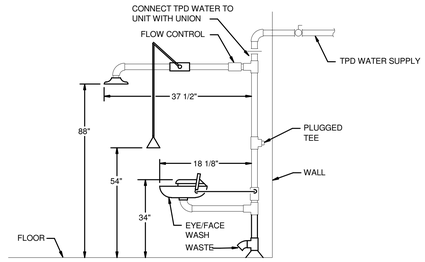


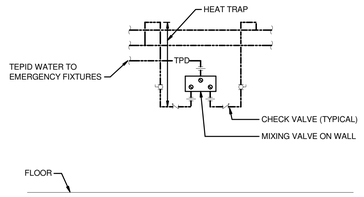
1 LAUNDRY WASHER BOX & STANDPIPE DETAIL
NTS



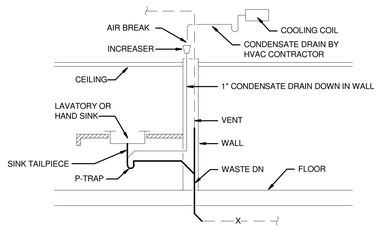
2 CLASSROOM GAS VALVE & BOX DETAIL
NTS



3 EMERGENCY SHOWER/EYEWASH DETAIL
NTS



4 EMERGENCY FIXTURE THERMOSTATIC MIXING VALVE DETAIL
NTS



5 CONDENSATE DRAIN DETAIL
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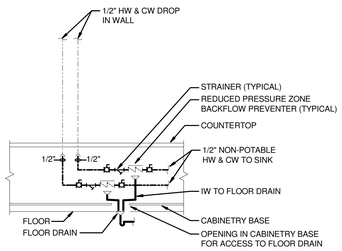

6 LIGHTING STUIDO BACKFLOW PREVENTOR DETAIL
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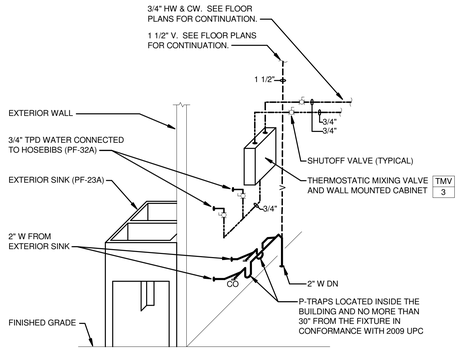
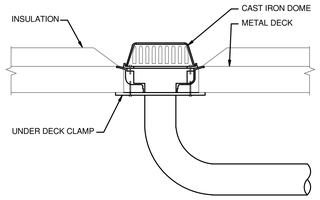
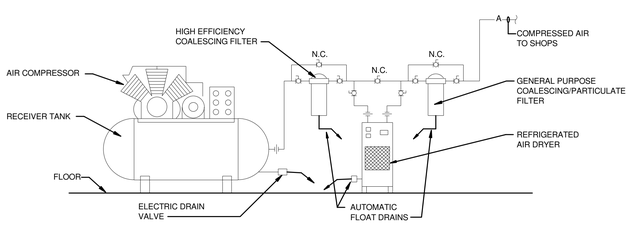


NOTE: PLUMBING SUB-CONTRACTOR SHALL
PROVIDE 4" PIPE EXTENSION ONTO NOZZLE END
OF EXTERIOR HOSEBIBS (PF-32A) SO THAT WATER
DISCHARGES OVER SINK BASINS.

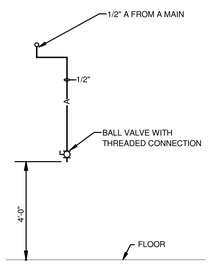
7 HORTICULTURE EXTERIOR SINK DETAIL
NTS



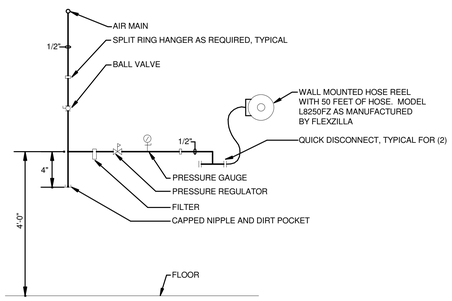
8 ROOF DRAIN DETAIL
NTS



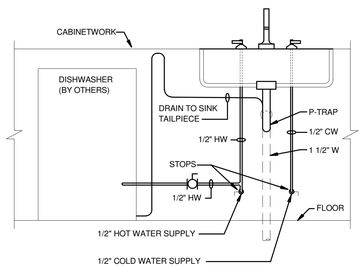
9 AIR COMPRESSOR DETAIL
NTS



10 TYPICAL AIR BLOW-DOWN DETAIL
NTS



11 TYPICAL AIR DROP DETAIL
NTS



12 WAREWASHER CONNECTION DETAIL
NTS

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SANFORD HIGH SCHOOL and TECHNICAL CENTER

SANFORD, ME 04073

NO.	DESCRIPTION	DATE

CONTENT:
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DRAWN BY:	A. SAK
PROJECT NO:	12-067-00
DATE:	02/11/2016
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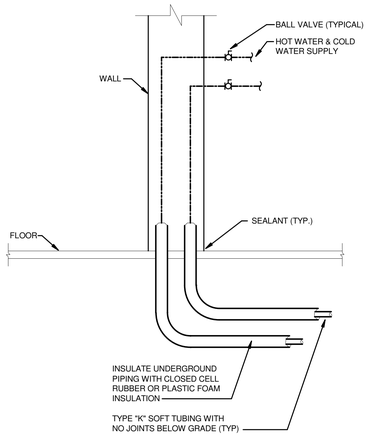
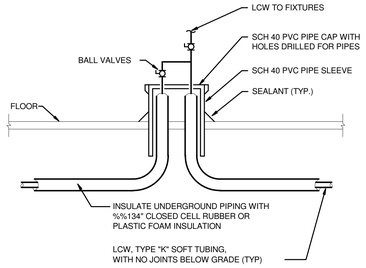
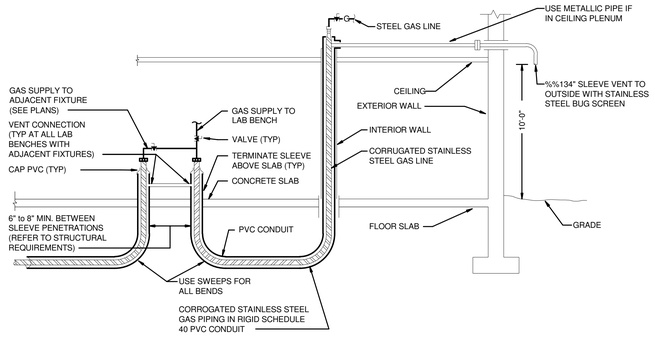


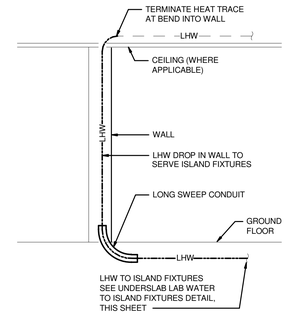
1 UNDERSLAB WATER PIPING DETAIL
NTS



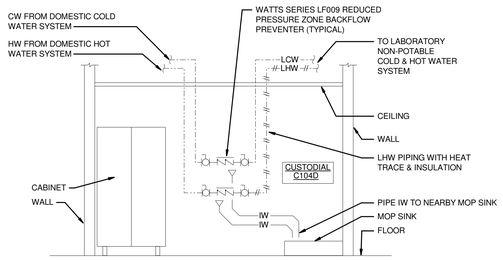
2 UNDERSLAB WATER TO ISLAND FIXTURES
NTS



3 UNDERSLAB GAS TO ISLAND FIXTURES
NTS



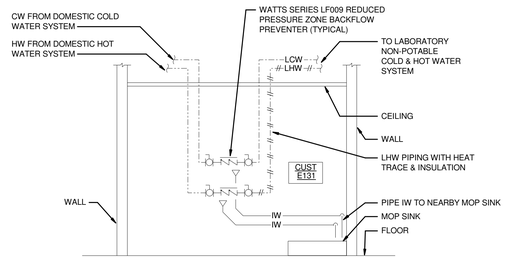
4 LAB HOT WATER HEAT TRACE DETAIL
NTS



NOTES

-PLUMBING SUB-CONTRACTOR SHALL INSTALL BACKFLOW PREVENTER ASSEMBLIES RACKED ON WALL SO THEY ARE ACCESSIBLE FOR MAINTENANCE AND/OR REPAIR.

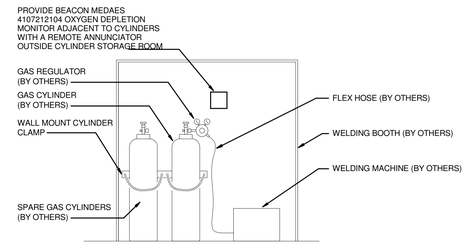
5 LABORATORY NON-POTABLE WATER SYSTEM BACKFLOW PREVENTER DETAIL - AREA A2
NTS



NOTES

-PLUMBING SUB-CONTRACTOR SHALL INSTALL BACKFLOW PREVENTER ASSEMBLIES RACKED ON WALL SO THEY ARE ACCESSIBLE FOR MAINTENANCE AND/OR REPAIR.

6 LABORATORY NON-POTABLE WATER SYSTEM BACKFLOW PREVENTER DETAIL - AREA E
NTS

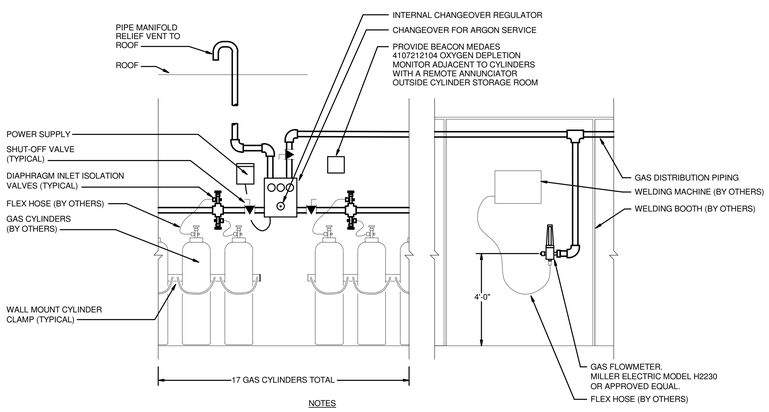


NOTES

-PLUMBING SUB-CONTRACTOR SHALL PROVIDE WALL MOUNT CYLINDER CLAMPS FOR ALL GAS CYLINDERS

-PLUMBING SUB-CONTRACTOR SHALL COORDINATE FINAL QUANTITY OF CYLINDER CLAMPS AND THEIR FINAL LOCATION WITH ARCHITECT

7 WELDING BOOTH GAS PIPING DETAIL - SINGLE BOOTH
NTS

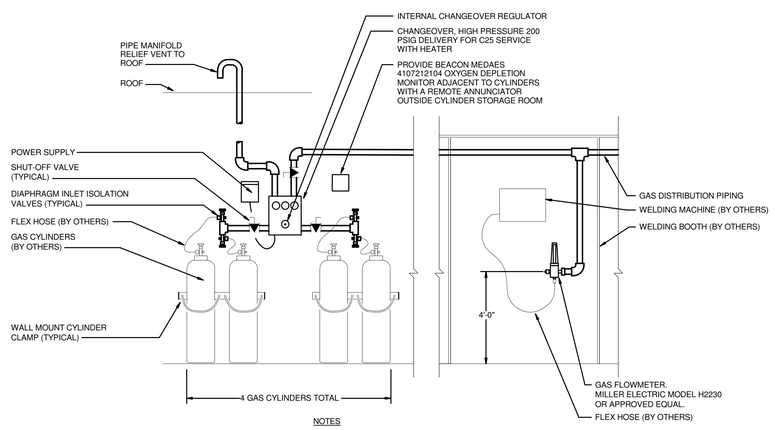


NOTES

-PLUMBING SUB-CONTRACTOR SHALL INSTALL ARGON GAS PIPING AND SUPPLY BRANCH TIGHT TO WALL AND WELDING BOOTH PARTITION

-PLUMBING SUB-CONTRACTOR SHALL PROVIDE WALL MOUNT CYLINDER CLAMPS FOR ALL GAS CYLINDERS

8 ARGON GAS PIPING SYSTEM DETAIL
NTS



NOTES

-PLUMBING SUB-CONTRACTOR SHALL INSTALL C25 GAS PIPING AND SUPPLY BRANCH TIGHT TO WALL AND WELDING BOOTH PARTITION

-PLUMBING SUB-CONTRACTOR SHALL PROVIDE WALL MOUNT CYLINDER CLAMPS FOR ALL GAS CYLINDERS

9 C25 GAS PIPING SYSTEM DETAIL
NTS

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PROJECT NO:	12-067-00
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PLUMBING FIXTURE SCHEDULE

NO.	FIXTURE	WASTE	VENT	HW	CW	MTG HT AFF	DESCRIPTION
PF-1	WATER CLOSET	4"	2"		1"	15"	ZURN ECOVANTAGE WATER CLOSET MODEL Z5615-BWL, WALL MOUNT ELONGATED FRONT, SIPHON JET ACTION WATER CLOSET WITH ZURN MODEL ZER6000PL-HET-CPM AQUASENSE BATTERY POWERED SENSOR OPERATED FLUSH VALVE, 1.28 GPF, CONTROL STOP WITH INTERNAL SIPHON-GUARD PROTECTION, PRESSURE VACUUM BREAKER, VANDAL RESISTANT CAP, CAST WALL FLANGE, TPE CHLORAMINE RESISTANT, MANUAL OVERRIDE, CHROME PLATED FINISH. ZURN MODEL Z5955SS-EL-STS HEAVY DUTY OPEN FRONT TOILET SEAT LESS COVER, SOLID PLASTIC, WHITE, WITH STAINLESS STEEL CHECK HINGE.
PF-2	ADA COMPLIANT WATER CLOSET	4"	2"		1"	17"	ZURN ECOVANTAGE WATER CLOSET MODEL Z5615-BWL, WALL MOUNT ELONGATED FRONT, SIPHON JET ACTION WATER CLOSET WITH ZURN MODEL ZER6000PL-HET-CPM AQUASENSE BATTERY POWERED SENSOR OPERATED FLUSH VALVE, 1.28 GPF, CONTROL STOP WITH INTERNAL SIPHON-GUARD PROTECTION, PRESSURE VACUUM BREAKER, VANDAL RESISTANT CAP, CAST WALL FLANGE, TPE CHLORAMINE RESISTANT, MANUAL OVERRIDE, CHROME PLATED FINISH. ZURN MODEL Z5955SS-EL-STS HEAVY DUTY OPEN FRONT TOILET SEAT LESS COVER, SOLID PLASTIC, WHITE, WITH STAINLESS STEEL CHECK HINGE. ADA COMPLIANT.
PF-4	ADA COMPLIANT TANK TYPE WATER CLOSET	4"	2"		1/2"	16 1/2"	ZURN ECOVANTAGE TANK TYPE WATER CLOSET MODEL Z5555, FLOOR MOUNT ELONGATED FRONT, SIPHON JET ACTION WATER CLOSET, 1.28 GPF, VITREOUS CHINA, 12" ROUGH-IN, 3" FLUSH VALVE, CHROME PLATED HANDLE, 2 1/8" GLAZED TRAPWAY, CHLORAMINE RESISTANT INTERNAL COMPONENTS, HEAVY DUTY STABILIZERS FOR RIGID TANK TO BOWL CONNECTION, 2 1/2" TRAP SEAL, BOLT CAPS. ZURN MODEL Z5958SS-EL ELONGATED, WHITE, CLOSED FRONT TOILET SEAT WITH COVER AND STAINLESS STEEL CHECK HINGE. ADA COMPLIANT.
PF-5	URINAL	2"	1 1/2"		3/4"	24"	ZURN ECOVANAGE URINAL MODEL Z5798.205.00 ULTRA LOW CONSUMPTION BATTERY POWERED URINAL SYSTEM, 0.125 GPF, VITREOUS CHINA, TOP SPUD, WITH ZEG6003EV HIGH EFFICIENCY FLUSH VALVE, "aa" BATTERIES, VANDAL RESISTANT, CONTROL STOP WITH INTERNAL SIPHON-GUARD PROTECTION, CAST FLANGE WITH SET SCREW, MANUAL OVERRIDE.
PF-6	ADA COMPLIANT URINAL	2"	1 1/2"		3/4"	17"	ZURN ECOVANAGE URINAL MODEL Z5798.205.00 ULTRA LOW CONSUMPTION BATTERY POWERED URINAL SYSTEM, 0.125 GPF, VITREOUS CHINA, TOP SPUD, WITH ZEG6003EV HIGH EFFICIENCY FLUSH VALVE, "aa" BATTERIES, VANDAL RESISTANT, CONTROL STOP WITH INTERNAL SIPHON-GUARD PROTECTION, CAST FLANGE WITH SET SCREW, MANUAL OVERRIDE. ADA COMPLIANT.
PF-7	ADA COMPLIANT COUNTERTOP LAVATORY WITH SENSOR FAUCET	1 1/2"	1 1/2"	1/2"	1/2"	COUNTER	ZURN COUNTERTOP LAVATORY MODEL Z5111, 20"x17"x 6 5/8"DEEP, VITREOUS CHINA, SINGLE HOLE, SELF-RIMMING, ZURN MODEL Z6955-XL-S BATTERY POWERED SENSOR FAUCET, CHROME PLATED CAST BRASS, 0.5 GPM VANDAL RESISTANT NON-AERATED, PROVIDE WITH THERMOSTATIC MIXING VALVE FOR MULTIPLE FAUCETS AND 10 YEAR BATTERY. ADA COMPLIANT.
PF-8	ADA COMPLIANT COUNTERTOP LAVATORY WITH MANUAL FAUCET	1 1/2"	1 1/2"	1/2"	1/2"	COUNTER	ZURN COUNTERTOP LAVATORY MODEL Z5114, 20"x17"x 6 5/8"DEEP, VITREOUS CHINA, 4" CENTER SET, SELF-RIMMING, ZURN MODEL Z812G6-XL MANUAL FAUCET, CHROME PLATED CAST BRASS, 0.5 GPM VANDAL RESISTANT PRESSURE COMPENATING FEMALE SPRAY OUTLET, HOT AND COLD TEXT INDEXES, PROVIDE WITH THERMOSTATIC MIXING VALVE FOR MULTIPLE FAUCETS. ADA COMPLIANT.
PF-8A	ADA COMPLIANT UNDERMOUNT LAVATORY WITH MANUAL FAUCET	1 1/2"	1 1/2"	1/2"	1/2"	COUNTER	ZURN UNDERMOUNT LAVATORY MODEL Z5220, 19" X 16"X5" DEEP, VITREOUS CHINA, FRONT OVERFLOW, ZURN MODEL Z812G6-XL MANUAL FAUCET, CHROME PLATED CAST BRASS, 0.5 GPM VANDAL RESISTANT PRESSURE COMPENATING FEMALE SPRAY OUTLET, HOT AND COLD TEXT INDEXES, PROVIDE WITH THERMOSTATIC MIXING VALVE FOR MULTIPLE FAUCETS. ADA COMPLIANT.
PF-9	ADA COMPLIANT WALL MOUNTED LAVATORY WITH SENSOR FAUCET	1 1/2"	1 1/2"	1/2"	1/2"	34"	ZURN WALL HUNG LAVATORY MODEL Z5361, 20"x18"x5 3/4"DEEP, VITREOUS CHINA, SINGLE HOLE, SELF-RIMMING, FRONT OVERLFOW, 4" HIGH BACKSPLASH, CONCEALED ARM CARRIER, ZURN MODEL Z6955-XL-S BATTERY POWERED SENSOR FAUCET, CHROME PLATED CAST BRASS, 0.5 GPM VANDAL RESISTANT NON-AERATED, PROVIDE WITH THERMOSTATIC MIXING VALVE FOR MULTIPLE FAUCETS AND 10 YEAR BATTERY. ADA COMPLIANT.
PF-10	ADA COMPLIANT SINGLE WASH SINK	1 1/2"	1 1/2"	1/2"	1/2"	34"	ELKAY WALL MOUNTED WHEELCHAIR LAVATORY MODEL WCLWO1923OSD, #18 GAUGE TYPE 304 STAINLESS STEEL, ROUNDED CORNERS, SATIN FINISH, FRONT AND SIDE APRONS, UNDERCOATED UNDERSIDE FOR SOUND DAMPENING, WALL HANGER, STAINLESS STEEL SUPPORT BRACKETS, GRID STRAINLER WITH ELBOW AND OFFSET TAILPIECE. ZURN MODEL Z812C1-XL MANUAL FAUCET, CHROME PLATED CAST BRASS, 8" RIGID/SWING GOOSENECK SPOUT, CERAMIC DISC CARTRIDGES, COLOR CODED METAL LEVER HANDLES, 0.5 GPM VANDAL RESISTANT PRESSURE COMPENATING FEMALE SPRAY OUTLET, PROVIDE WITH THERMOSTATIC MIXING VALVE FOR SINGLE FAUCET. ADA COMPLIANT.
PF-11	ADA COMPLIANT 3 STATION WASH SINK	1 1/2"	1 1/2"	3/4"	3/4"	34"	ELKAY THREE STATION WASH SINK MODEL EWMA720, WALL HUNG, #14 GAUGE TYPE 304 STAINLESS STEEL, SATIN FINISH, 2" APRON, 10" HIGH FULL LENGTH BACKSPLASH,WALL HANGERS AND STAINLESS STEEL SUPPORT BRACKETS. ZURN MODEL Z843B1-XL WALL MOUNTED GOOSENECK FAUCET, CHROME PLATED CAST BRASS, QUARTER TURN CERAMIC DISC CARTRIDGES, INTEGRAL SERVICE STOPS, VANDAL RESISTANT COLOR CODED METAL LEVER HANDLES, 0.5GPM VANDAL RESISTANT PRESSURE COMPENSATING FEMALE SPRAY OUTLET. ADA COMPLIANT.
PF-12	ADA COMPLIANT SMALL SS SINK	1 1/2"	1 1/2"	1/2"	1/2"	COUNTER	ELKAY LUSTERTONE MODEL ELUHAD1316 SELF RIMMING SINGLE BOWL UNDERMOUNT SINK, 18 GAUGE STAINLESS STEEL SINK, 3 HOLES, 13 1/2"X16"x5". CHICAGO FAUCET MODEL 1100-CP MANUAL FAUCET, 8" CENTERS, 8" L TYPE SWING SPOUT, QUATURN COMPRESSION OPERATING CARTRIDGE, 2" CANOPY SINGLE WING HANDLES, POLISHED CHROME FINISH, PROVIDE WITH 1.5 GPM AERATOR. ADA COMPLIANT.
PF-12A	ADA COMPLIANT SMALL SS SINK	1 1/2"	1 1/2"	1/2"	1/2"	COUNTER	ELKAY LUSTERTONE MODEL ELUHAD1316 SELF RIMMING SINGLE BOWL UNDERMOUNT SINK, 18 GAUGE STAINLESS STEEL SINK, 3 HOLES, 13 1/2"X16"x5". CHICAGO FAUCET MODEL 349-L8ABCP MANUAL FAUCET, SINGLE HOLE, 8" L TYPE SWING SPOUT, QUATURN COMPRESSION OPERATING CARTRIDGE, 2-3/8" VANDAL PROOF LEVER HANDLE, POLISHED CHROME FINISH, PROVIDE WITH 1.5 GPM AERATOR. ADA COMPLIANT.
PF-13	ADA COMPLIANT LARGE SS SINK	1 1/2"	1 1/2"	1/2"	1/2"	COUNTER	ELKAY LUSTERTONE MODEL ELUHAD2816 SELF RIMMING SINGLE BOWL UNDERMOUNT SINK, 18 GAUGE STAINLESS STEEL SINK, 3 HOLES, 28"X16"x5". CHICAGO FAUCET MODEL 1100-CP MANUAL FAUCET, 8" CENTERS, 8" L TYPE SWING SPOUT, QUATURN COMPRESSION OPERATING CARTRIDGE, 2" CANOPY SINGLE WING HANDLES, POLISHED CHROME FINISH, PROVIDE WITH 1.5 GPM AERATOR. ADA COMPLIANT.
PF-14	ADA COMPLIANT DOUBLE BOWL SS SINK	(2) 1 1/2"	1 1/2"	1/2"	1/2"	COUNTER	ELKAY GOURMET MODEL LR4322 SELF RIMMING DOUBLE BOWL SINK, 18 GAUGE STAINLESS STEEL SINK, 4 HOLES, 19"X16"x7 5/8" EACH BASIN. CHICAGO FAUCET MODEL 1200-AXKCP, WITH HOSE SPRAY, 8" CENTERS, L9 SWING SPOUT, 1/4 TURN CERAMIC DISC CARTRIDGES, 1000 WING HANDLES, 2.2 GPM E3 SOFTFLO AERATOR, POLISHED CHROME FINISH.
PF-15	SHAMPOO CHAIR	1 1/2"	1 1/2"	1/2"	1/2"	FLOOR	SALON SHAMPOO CHAIR WITH INTRAGRAL SINK BY OTHERS, PROVIDE ZURN MODEL Z1176-CP HAIR INTERCEPTOR, STOPS AND SUPPLIES.
PF-16	ADA COMPLIANT BI-LEVEL DRINKING FOUNTAIN WITH BOTTLE FILLER	1 1/2"	1 1/2"		1/2"	33" & 39 1/2" TO BUBBLERS	HALSEY TAYLOR MODEL HTHB-HACDBLWFSS BI-LEVEL WATER COOLERS WITH BOTTLE FILLING STATION, WALL-MOUNTED, SELF-CLOSING FRONT AND SIDE PUSHBAR ACTUATORS, ONE PIECE, CHROME PLATED, TWO-STREAM DOUBLE BUBBLER, STAINLESS STEEL TOP WITH SATIN FINISH, STAINLESS STEEL COOLER PANELS, HYDROBOOST BOTTLE FILLING STATION WITH SENSOR-ACTIVATED FILLER, 1.1 GPM FILL RATE, AUTOMATIC 20-SECOND SHUT-OFF TIMER, PROVIDED WITH MODEL HWF3000 WATERSENTRY PLUS FILTER AND GREEN COUNTER WHICH DISPLAYS NUMBER OF BOTTLES SAVED. ADA COMPLIANT.
PF-16A	ADA COMPLIANT BI-LEVEL CHILLED DRINKING FOUNTAIN WITH BOTTLE FILLER	1 1/2"	1 1/2"		1/2"	33" & 39 1/2" TO BUBBLERS	HALSEY TAYLOR MODEL HTHB-HACG8BLSSWF BI-LEVEL WATER COOLERS WITH BOTTLE FILLING STATION, WALL-MOUNTED, ELECTRIC REFRIGERATED, SELF-CLOSING FRONT AND SIDE PUSHBAR ACTUATORS, ONE PIECE, CHROME PLATED, TWO-STREAM DOUBLE BUBBLER, STAINLESS STEEL TOP WITH SATIN FINISH, STAINLESS STEEL COOLER PANELS, HYDROBOOST BOTTLE FILLING STATION WITH SENSOR-ACTIVATED FILLER, 1.1 GPM FILL RATE, AUTOMATIC 20-SECOND SHUT-OFF TIMER, PROVIDED WITH MODEL HWF3000 WATERSENTRY PLUS FILTER AND GREEN COUNTER WHICH DISPLAYS NUMBER OF BOTTLES SAVED. ADA COMPLIANT.
PF-17	ADA COMPLIANT BATHTUB/SHOWER	2"	1 1/2"	1/2"	1/2"	FLOOR	AQUARIUS BATHWARE MODEL G 6004 TS GELCOAT BATHTUB/SHOWER, ONE PIECE CONSTRUCTION, WHITE, SMOOTH WALL, 32 3/4" x 59 5/8" OVERALL DIMENSIONS. SYMMONS TEMPTROL MODEL S-96-2-231 TUB SHOWER SYSTEM WITH PRESSURE BALANCING MIXING VALVE WITH ADJUSTABLE STOP SCREW, INTEGRAL DIVERTER AND VOLUME CONTROL, OPEN FLOW ZINC TUB SPOUT, INTEGRAL SERVICE STOPS, INTEGRAL CHECK STOPS, SINGLE BLADE STYLE LEVER HANDLE, 1.5 FLOW RATE TESTRICTOR, POLISHED CHROME FINISH.
PF-18	WHIRLPOOL TUB	2"	1 1/2"	1/2"	1/2"	FLOOR	WHIRLPOOL PROVIDED BY OTHERS, PROVIDE DRAIN, STOPS AND SUPPLIES.
PF-19	SHOWER BASE AND CONTROLS	2"	1 1/2"	1/2"	1/2"	FLOOR	FIAT MONTEREY MODEL 36 MFT PRECAST TERAZZO SHOWER BASE, 36"x36", STAINLESS STEEL DRAIN WITH REMOVABLE STAINLESS STEEL STRAINER PLATE, INTEGRAL CAST FLANGE, STAINLESS STEEL TILING FLANGES, SYMMONS TEMPTROL MODEL S-96-1 SHOWER SYSTEM, PRESSURE BALANCING MIXING VALVE WITH ADJUSTABLE STOP SCREW, INTEGRAL VOLUME CONTROL HANDLE, INTEGRAL SERVICE STOPS, INTEGRAL CHECK STOPS, SINGLE BLADE STYLE LEVER HANDLE, 1.5 FLOW RATE RESTRICTOR, POLISHED CHROME FINISH. PROVIDE WITH STAINLESS STEEL PIPE SHROUD AS NEEDED FOR ANY EXPOSED SUPPLY PIPING TO SHOWER SYSTEM.
PF-19A	SHOWER VALVE ADA			1/2"	1/2"	WALL	ACORN MODEL 488B-W SURFACE MOUNTED SHOWER SYSTEM, TRI-LEVER HANDLE, INTEGRAL CHECKS, AND TEMPERATURE-PRESSURE BALANCING MIXING VALVE. PROVIDE WITH DELTA MODEL RP46384 LOW FLOW SHOWERHEAD, 1.6 GPM, H20KINETIC TECHNOLOGY, FULL SPRAY FUNCTION, CHROME PLATED FINISH.
PF-20	SHOWER ADA ROLL-IN	2"	1 1/2"	1/2"	1/2"		AQUARIUS MODEL G 6233 BF ADA MAS ROLL-IN SHOWER, O.D. 62 ¼" X 33" WITH HIGH GLOSS GELCOAT FINISH, MOLDED SOAP DISHES, PADDED FOLD-UP SEAT & STAINLESS STEEL GRAB BAR.
PF-20A	ADA COMPLIANT SHOWER VALVE			1/2"	1/2"	WALL	ACORN MODEL 488ADAB-W SURFACE MOUNTED SHOWER SYSTEM, ADA COMPLIANT, TRI-LEVER HANDLE, HAND SHOWER WITH IN-LINE VACUUM BREAKER AND ON/OFF PUSHBUTTON, 2.5 GPM FLOW RATE, 24" SLIDE RAIL, VALVE SUPPLY FLEXIBLE HOSE CONNECTORS, TEMPERATURE-PRESSURE BALANCING MIXING VALVE. PROVIDE WITH STAINLESS STEEL PIPE SHROUD AS NEEDED FOR ANY EXPOSED SUPPLY PIPING TO SHOWER SYSTEM.
PF-21	24"x24" MOP SINK	3"	1 1/2"	1/2"	1/2"	FLOOR	FIAT MODEL TSB-3000 TERRAZZO MOP BASIN, 24"x24"x12" DEEP WITH 6" DROP FRONT, 3" STAINLESS STEEL INTEGRAL DRAIN BODY, STAINLESS STEEL CURB CAPS. CHICAGO FAUCET MODEL 897-CP SERVICE SINK FACUET, ADJUSTABLE 8" CENTERS, VACUUM BREAKER SPOUT WITH PAIL HOOK AND WALL BRACE, POLISHED CHROM FINISH. PROVIDE WITH FIAT MODEL 832AA HOSE AND HOSE BRACKET, 889CC MOP BRACKET AND MODEL MSG-2424 WALL GUARDS.
PF-22	36"x36" MOP SINK	3"	1 1/2"	1/2"	1/2"	FLOOR	FIAT MODEL TSB-3002 TERRAZZO MOP BASIN, 36"x36"x12" DEEP WITH 6" DROP FRONT, 3" STAINLESS STEEL INTEGRAL DRAIN BODY, STAINLESS STEEL CURB CAPS. CHICAGO FAUCET MODEL 897-CP SERVICE SINK FACUET, ADJUSTABLE 8" CENTERS, VACUUM BREAKER SPOUT WITH PAIL HOOK AND WALL BRACE, POLISHED CHROM FINISH. PROVIDE WITH FIAT MODEL 889CC MOP BRACKET AND MODEL MSG-3636 WALL GUARD.
PF-23	UTILITY SINK	1 1/2"	1 1/2"	1/2"	1/2"	FLOOR	FIAT MODEL FL-1 FLOOR MOUNTED UTILITY SINK, 20 1/4"x17 1/4"x13" DEEP MOLDED STONE BASIN WITH ANGLE LEGS. CHICAGO FAUCETS MODEL 1891-XKCP DECK MOUNTED FAUCET, 4" CENTERS, 6" CAST BRASS SWING SPOUT, 1/4 TURN CERAMIC DISC CARTRIDGES, 2" METAL SINGLE WING HANDLES, 2.2 GPM PRESSURE COMPENSATING SOFTFLO AERATOR.
PF-23A	EXTERIOR UTILITY SINK	1 1/2"				GRADE	FIAT MODEL FLTDII FLOOR MOUNTED DOUBLE BOWL UTILITY SINK, 40"X24"X13 7/8", MOLDED STONE, FURNISHED WITH WHITE BAKED ENAMEL STEEL ANGLE LEGS.
PF-24	WASHING MACHINE VALVE BOX	2"	2"	1/2"	1/2"	36"	SYMMONS LAUNDRY-MATE MODEL W-602-X SUPPLY AND DRAIN FIXTURE WITH 1/2" SWEAT CONNECTIONS AND 2" DRAIN CONNECTIONS, SERVICE STOPS.
PF-25	LAB SINK & TRIM	1 1/2"	1 1/2"	1/2"	1/2"	COUNTER	ELKAY LUSTERTONE UNDERMOUNT SINGLE BOWL SINK, MODEL ELUHAD1116, 11 1/2"X16"X5 1/2" DEEP. PROVIDE WITH CHICAGO FAUCET MODEL 930-GN8BVBE7-317XK, SINGLE HOLE, GN8A RIGID/SWING VACUUM BREAKER SPOUT, 1/4 TURN CERAMIC DISC CARTRIDGES, 4" METAL VANDAL PROOF WRIST BLADE HANDLES, FULL FLOW SERRATED NOZZLE, 3/8" FLEXIBLE STAINLESS STEEL SUPPLY HOSES, POLISHED CHROME FINISH.
PF-26	LAB FAUCET, TRAP AND TRIM	1 1/2"	1 1/2"	1/2"	1/2"	COUNTER	CHICAGO FAUCET MODEL 930-GN8BVBE7-317XK, SINGLE HOLE, GN8A RIGID/SWING VACUUM BREAKER SPOUT, 1/4 TURN CERAMIC DISC CARTRIDGES, 4" METAL VANDAL PROOF WRIST BLADE HANDLES, FULL FLOW SERRATED NOZZLE, 3/8" FLEXIBLE STAINLESS STEEL SUPPLY HOSES, POLISHED CHROME FINISH. SINK TO BE PROVIDED WITH ZURN NEUTRALIZATION TANK, MODEL Z9A-NT-5, HIGH DENSITY POLYETHLENE, GASKETED BOLT DOWN COVER, STAINLESS STEEL HARDWARE AND NEOPRENE GASKET MATERIAL.
PF-26A	LAB SINK & TRIM	1 1/2"	1 1/2"		1/2"	COUNTER	ELKAY LUSTERTONE UNDERMOUNT SINGLE BOWL SINK, MODEL ELUHAD1116, 11 1/2"X16"X5 1/2" DEEP. PROVIDE WITH CHICAGO FAUCET MODEL 930-GN8BVBE7-317XK, SINGLE HOLE, GN8A RIGID/SWING VACUUM BREAKER SPOUT, 1/4 TURN CERAMIC DISC CARTRIDGES, 4" METAL VANDAL PROOF WRIST BLADE HANDLES, FULL FLOW SERRATED NOZZLE, 3/8" FLEXIBLE STAINLESS STEEL SUPPLY HOSES, POLISHED CHROME FINISH.
PF-27	DECK MOUNTED SINGLE TURRET					COUNTER	CHICAGO FAUCETS MODEL 980-VR909CAGCP DECK MOUNTED SINGLE TURRET, BALL VALVE AND CHECK, FULL FLOW SERRATED NOZZLE, FACTORY ASSEMBLED THREADED CONNECTIONS, ANTI-ROTATIONAL BODY DECK PIN, RATED OPERATING PRESSURE OF 0-0.5PSI.
PF-28	DECK MOUNTED 90 DEGREE DOUBLE TURRET					COUNTER	CHICAGO FAUCETS MODEL 982-VR909CAGCP DECK MOUNTED DOUBLE TURRET AT 90 DEGREES, BALL VALVES AND CHECKS, FULL FLOW SERRATED NOZZLES, FACTORY ASSEMBLED THREADED CONNECTIONS, SHANK ASSEMBLY, MALE THREAD, ANTI-ROTATIONAL BODY DECK PIN, RATED OPERATING PRESSURE OF 0-0.5PSI.
PF-29	EMERGENCY SHOWER EYE WASH STATION					FLOOR	GUARDIAN MODEL G1909 FREE STANDING EMERGENCY SHOWER EYE/FACE WASH STATION WITH STAINLESS STEEL EYE/FACE WASH BOWL, BARRIER FREE, SINGLE MOTION FLAG HANDLE ACTIVATION WITH STAY OPEN BALL VALVE, TWO FS-PLUS SPRAY HEADS WITH FLIP TOP DUST COVERS. 10" DIAMETER ORANGE ABS PLASTIC SHOWER HEAD, 1" CHROME PLATED STAYOPEN SHOWER BALL VALVE WITH STAINLESS STEEEL ACTUATING ARM AND 29" STAINLESS STEEL PULL ROD. ADA COMPLIANT. SINGLE EMERGENCY EYEWASH/SHOWER STATIONS SHALL BE PROVIDED WITH GUARDIAN MODEL G3802LF TEMPERING VALVE WHEN TPD WATER SUPPLY IS NOT PROVIDED AS PART OF A LOOPED TPD WATER SYSTEM.
PF-31	GAS VALVE BOX						ACUDOR MODEL ARVB RECESSED VALVE BOX, 16 GAUGE STAINLESS STEEL DOOR, FRAME AND BOX, DOOR FLUSH TO FRAME WITH KEY AND LOCK.
PF-32	EXTERIOR HOSE BIBB				3/4"	SEE ARCH PLANS	ZURN MODEL Z-1320, ENCASED ECOTROL "ANTI-SIPHON" AUTOMATIC DRAINING NON-FREEZE WALL HYDRANT WITH INTEGRAL BACKFLOW PREVENTER, BRONZE INTERIOR PARTS, 1/2 TURN CERAMIC DISC CARTRIDGE, 3/4" MALE PIPE THREAD INLET AND STAINLESS STEEL BOX WITH HINGED COVER, KEY LOCK AND "WATER" STAMPED ON COVER.
PF-32A	EXTERIOR HOSE BIBB				3/4"	SEE ARCH PLANS	ZURN MODEL Z-1346, EXPOSED NON-FREEZE, ANTI-SIPHON, AUTOMATIC DRAINING WALL FAUCET, EXTERIOR CHROME FINISH, BRASS CASING, BRONZE INTERIOR PARTS, Z1399-VB ANTI SIPHON INTEGRAL VACUUM BREAKER, ¾" MALE HOSE CONNECTION. PLUMBING SUB-CONTRACTOR SHALL ORIENT WALL FAUCET OUTLET SO THAT IT DISCHARGES INTO SINK BASIN.
PF-33	INTERIOR HOSE BIBB				3/4"	16" TO BOT. OF COVER	ZURN MODEL Z-1330, ENCASED ECOTROL "ANTI-SIPHON" AUTOMATIC DRAINING WALL HYDRANT WITH INTEGRAL BACKFLOW PREVENTER, BRONZE INTERIOR PARTS, 1/2 TURN CERAMIC DISC CARTRIDGE, 3/4" MALE PIPE THREAD INLET AND STAINLESS STEEL BOX WITH HINGED COVER, KEY LOCK AND "WATER" STAMPED ON COVER.
PF-34	INTERIOR HOSE BIBB				3/4"	16" TO BOT. OF COVER	ZURN MODEL Z-1341-BFP, EXPOSED "ANTI-SIPHON" WALL HYDRANT WITH Z1399-BFP BACKFLOW PREVENTER, BRONZE INTERIOR PARTS, 3/4" MALE PIPE THREAD HOSE CONNECTION.
PF-35	FINISHED FLOOR DRAIN	3"	1 1/2"			FLOOR	ZURN MODEL ZN-415S-P FINISHED FLOOR DRAIN WITH 8"x8" SQUARE STRAINER, DURA-COATED CAST IRON BODY, MEMBRANE CLAMP, ADJUSTABLE COLLAR AND TYPE "S" POLISHED NICKEL BRONZE HEEL-PROOF STRAINER, TRAP PRIMER CONNECTION.
PF-35A	FINISHED FLOOR SHOWER DRAIN	3"	1 1/2"			FLOOR	ZURN MODEL ZN-415S-P FINISHED FLOOR DRAIN WITH 8"x8" SQUARE STRAINER, DURA-COATED CAST IRON BODY, MEMBRANE CLAMP, ADJUSTABLE COLLAR AND TYPE "S" POLISHED NICKEL BRONZE HEEL-PROOF STRAINER, TRAP PRIMER CONNECTION.
PF-36	MECHANICAL ROOM FLOOR DRAIN	4"	2"			FLOOR	ZURN MODEL Z-505-Y-P MECHANICAL ROOM FLOOR DRAIN 12" DIAMETER STRAINER, DURA-COATED CAST IRON BODY, SEEPAGE PAN, COMBINATION MEMBRANE FLASHING CLAMP, HEAVY DUTY SLOTTED GRATE, SEDIMENT BUCKET, TRAP PRIMER CONNECTION.
PF-37	TRENCH DRAIN	4"	2"			FLOOR	ZURN MODEL Z-895-HPD 12" STAINLESS STEEL TRENCH DRAIN SYSTEM WITH 1% SLOPE, 60" LENGTHS WITH BOLTED FLANGED CONNECTIONS, PROVIDE WITH 12" WIDE DUCTILE IRON HEEL PROOF GRATE RATED FOR H20 LOADING. TRENCH DRAIN TO BE 40' LONG COMPLETE WITH END CAPS AND 4" END OUTLET. OUTLET TO DISCHARGE DIRECTLY INTO TRENCH DRAIN CATCH BASIN.
PF-38	TRENCH DRAIN CATCH BASIN	4"	2"			FLOOR	ZURN MODEL Z-897-HP-12 12" WIDE x 24" LONG x 24 3/4" DEEP STAINLESS STEEL TRENCH DRAIN CATCH BASIN, PROVIDE WITH 12" WIDE DUCTILE IRON HEEL PROOF GRATE RATED FOR H-20 LOADING, 4" END INLET CONNECTION FROM 40' TRENCH DRAIN AND 4" BOTTOM OUTLET.
PF-39	KITCHEN FLOOR DRAIN	4"	2"			FLOOR	ZURN MODEL ZN-1900-P SANI-FLOR RECEPTOR 12"x12"x6" DEEP CAST IRON BODY, SQUARE SLOTTED MEDIUM DUTY POILSHED NICKEL BRONZE GRATE WITH ACID RESITING WHITE PORCELAIN ENAMEL INTERIOR AND TOP, ANTI-SPLASH INTERIOR DOME STRAINER WITH TRAP PRIMER CONNECTION.
PF-40	KITCHEN FLOOR SINK - HALF GRATE	4"	2"			FLOOR	ZURN MODEL ZN-1902-2-P SANI-FLOR RECEPTOR 12"x12"x10" DEEP CAST IRON BODY, SQUARE SLOTTED 1/2 LIGHT DUTY POLISHED NICKEL BRONZE GRATE WITH ACID RESISTING WHITE PORCELAIN ENAMEL INTERIOR AND TOP, ANTI-SPLASH INTERIOR DOME STRAINER WITH TRAP PRIMER CONNECTION.
PF-41	ROOF DRAIN	SAME SIZE AS PIPE				ROOF	ZURN MODEL Z-100-C-VP, 15" DIAMETER ROOF DRAIN, DURA-COATED CAST IRON BODY, COMBINATION MEMBRANE FLASHING CLAMP, UNDERDECK CLAMP, LOW SILHOUETTE CAST IRON DOME, VANDAL PROOF SECURED TOP.
PF-41A	SCUPPER DRAIN	SAME SIZE AS PIPE				ROOF/WALL	ZURN MODEL Z-187 SCUPPER DRAIN, CAST IRON BODY, BACK OUTLET, OBLIQUE ALUMINUM GRATE, FRAME AND MEMBRANE FLASHING CLAMP.
PF-41B	DOWNSPOUT NOZZLE	SAME SIZE AS PIPE				WALL	ZURN MODEL ZANB-199-SS DOWNSPOUT NOZZLE, NICKEL BRONZE BODY, THREADED INLET, STAINLESS STEEL REMOVEABLE SCREEN.
PF-42	ELECTRONIC TRAP PRIMER (1-4 TRAPS)				1/2"	WALL	PRECISION PLUMBING PRODUCTS, INC. MODEL MPB-500-115V MINI-PRIME ELECTRONIC TRAP PRIMER WITH SUB-MINIATURE SOLENOID VALVE, AIR GAP AND ELECTRONIC CONTROLLER AND REMOTE TIMER, FACTORY ASSEMBLED IN A NEMA #1 METAL BOX.
PF-43	ELECTRONIC TRAP PRIMER (5-30 TRAPS)				3/4"	WALL	PRECISION PLUMBING PRODUCTS, INC. MODEL PT, PRIME-TIME ELECTRONIC TRAP PRIMER WITH SOLENOID VALVE, CIRCUIT BREAKER, SWITCH, TIMER AND ANIT-SIPHON ATMOSPHERIC VACUUM BREAKER, FACTORY ASSEMBLED IN A NEMA #1 METAL BOX. VERIFY EXACT MODEL AT EACH LOCATION.
PF-44	HOSE REEL					WALL/CEILING	REELCRAFT MODEL 5835 OLP SPRING DRIVEN AIR HOSE REEL WITH 35 FOOT 3/8" PVC HOSE, PROVIDE WITH ALL APPROPRIATE MOUNTING BRACKETS TO FASTEN TO STRUCTURE.
PF-45	BOTTOM ACCESS SOLIDS INTERCEPTOR P-TRAP	2"				UNDER SINK	ZURN MODEL Z1184 BOTTOM ACCESS SOLIDS INTERCEPTOR, 2" INLET AND OUTLET, REMOVABLE PVC SEDIMENT BUCKET WITH 3/32" PERFORATED FLOW DEFUSING/INTERCEPTING PVC SCREEN, BOTTOM ACCESS GASKETED SECURED COVER, STAINLESS STEEL DRAW LATCHES AND HARDWARE, ABS HANDLE AND DRAIN PORT PLUG.
PF-46	OIL INTERCEPTOR	4"				FLOOR	ZURN MODEL Z1188-ST-E-HD-K ACID RESISTANT COATED INTERIOR AND EXTERIOR FABRICATED STEEL OIL INTERCEPTOR, 300 GPM, 660 GALLON WATER STORAGE CAPACITY, BRONZE CLEANOUT PLUG, DOUBLE WALL TRAP SEAL, PRESSURE EQUALIZING/FLOW DIFFUSING BAFFLE AND SEDIMENT BUCKET, VENT CONNECTIONS, OIL DRAW-OFF, GASKETED NON-SKID COVER, HEAVY DUTY TRAFFIC COVER RATED AT 10,000 LBS. MAXIMUM SAFE LIVE LOAD. INCLUDE ANCHOR FLANGE AND INTEGRAL EXTENSION FOR RECESSED INSTALLATION.
PF-46A	OIL INTERCEPTOR	4"				FLOOR	ZURN MODEL Z1188-ST-E-HD-K ACID RESISTANT COATED INTERIOR AND EXTERIOR FABRICATED STEEL OIL INTERCEPTOR, 125 GPM, 150 GALLON WATER STORAGE CAPACITY, BRONZE CLEANOUT PLUG, DOUBLE WALL TRAP SEAL, PRESSURE EQUALIZING/FLOW DIFFUSING BAFFLE AND SEDIMENT BUCKET, VENT CONNECTIONS, OIL DRAW-OFF, GASKETED NON-SKID COVER, HEAVY DUTY TRAFFIC COVER RATED AT 10,000 LBS. MAXIMUM SAFE LIVE LOAD. INCLUDE ANCHOR FLANGE AND INTEGRAL EXTENSION FOR RECESSED INSTALLATION.
PF-46B	OIL INTERCEPTOR	4"				FLOOR	ZURN MODEL Z1188-ST-E-HD-K ACID RESISTANT COATED INTERIOR AND EXTERIOR FABRICATED STEEL OIL INTERCEPTOR, 75 GPM, 65 GALLON WATER STORAGE CAPACITY, BRONZE CLEANOUT PLUG, DOUBLE WALL TRAP SEAL, PRESSURE EQUALIZING/FLOW DIFFUSING BAFFLE AND SEDIMENT BUCKET, VENT CONNECTIONS, OIL DRAW-OFF, GASKETED NON-SKID COVER, HEAVY DUTY TRAFFIC COVER RATED AT 10,000 LBS. MAXIMUM SAFE LIVE LOAD. INCLUDE ANCHOR FLANGE AND INTEGRAL EXTENSION FOR RECESSED INSTALLATION
PF-47	GREASE INTERCEPTOR (50 GPM)					FLOOR	ZURN MODEL Z-1170-E-K ACID RESISTANT COATED INTERIOR AND EXTERIOR STEEL GREASE INTERCEPTOR, INTERNAL AIR RELIEF BY-PASS, BRONZE CLEANOUT PLUG, DOUBLE WALL TAP SEAL WITH REMOVABLE COMBINATION PRESSURE EQUALIZING/FLOW DIFFUSING BAFFLE, GASKETED NON-SKID COVER WTIH CENTER TIE-DOWN, RATED AT 50 GPM AND 100 LBS OF CAPACITY. PROVIDE WITH STEEL EXTENSION AS REQUIRED. PROVIDE WITH Z1108 FLOW CONTROL FITTING, PDI CERTIFIED, PLUMBING SUB-CONTRACTOR SHALL PIPE VENT FOR FLOW CONTROL FITTING INTO BUILDING VENTING SYSTEM.
PF-48	SOLID AND SEDIMENT INTERCEPTOR					FLOOR	ZURN MODEL Z1187-400-E-K ACID RESISTANT COATED INTERIOR AND EXTERIOR FABRICATED STEEL SAND AND SEDIMENT INTERCEPTOR, 54 CUBIC FEET CAPACITY BELOW INVERT OUTLET, COMPLETE WITH SCORIATED NON-SKID REMOVABLE COVERS. INCLUDE INTEGRAL EXTENSION FOR RECESSED INSTALLATION AND ANCHOR FLANGE 1 3/4" DOWN FROM TOP.
PF-49	ACID NEUTRILIZATION TANK	2"				FLOOR	ZURN NEUTRALIZATION TANK, MODEL Z9A-NT-5, HIGH DENSITY POLYETHLENE, GASKETED BOLT DOWN COVER, STAINLESS STEEL HARDWARE AND NEOPRENE GASKET MATERIAL.

1 ALL FIXTURES SHALL BE COMPLETE WITH APPROPRIATE SUPPLIES WITH STOPS, P-TRAPS AND ACCESSORIES.
2 ALL TRIM TO BE OF VANDAL-PROOF CONSTRUCTION, INCLUDING BUT NOT LIMITED TO AERATORS, HANDLES, SHOWER, HEADS, ETC.
3 PROVIDE OFFSET DRAIN AND WASTE, HW & CW INSULATION FOR BARRIER FREE INSTALLATION.
4 FIXTURES SHALL BE PROVIDED WITH APPROPRIATE FLOOR MOUNTED WALL CARRIERS.
** CONFIRM ALL FIXTURE MOUNTING HEIGHTS WITH ARCHITECTURAL DRAWINGS.

PLUMBING DOMESTIC WATER HEATER SCHEDULE

SYMBOL	EQUIPMENT TAG	LOCATION	TANK SIZE - GAL	BOILER WATER FLOW RATE @ 180 DEG. - GPM	RECOVERY @ 40-140 DEG. RISE - GPH	ELECTRICAL: AMPS	VOLT	PHASE	HZ	REMARKS
DWH	1	MECHANICAL ROOM 1486	300	15	900	4	120	1	60	1, 2, 3.
DWH	2	MECHANICAL ROOM 1486	300	15	900	4	120	1	60	1, 2, 3.

1. SELECTION BASED ON PVI WATER HEATERS - EZ PLATE BOILER WATER HEAT EXCHANGER, WATER HEATER MODEL #900 L 300A-TRPF.
2. ELECTRICAL REQUIREMENTS:
   - CIRCULATOR PUMP: 120V, 1 PH, 60 HZ., 4 AMPS.
   - CONTROL VOLTAGE: 120V, 1 PH, 60 HZ., 2AMPS.
3. WATER HEATER SHALL BE EQUIPPED WITH: BRONZE CIRCULATING PUMP, IMMERSION TEMPERATURE LIMITING DEVICE, TERMINALS FOR REMOTE ON-OFF CONTROL, MANUAL RESET TEMPERATURE LIMITING DEVICE, ELECTRONIC LOW WATER CUT OFF, TANK PRESSURE GAUGE, BOILER WATER CONTROL VALVE.

PLUMBING SYSTEM EXPANSION TANK SCHEDULE

SYMBOL	EQUIPMENT TAG	LOCATION	TYPE	VOL (TANK/ACCEPT)	APPROX. DIMENSIONS	CONNECTION SIZE	REMARKS
EXP	1	MECHANICAL ROOM 1486	STAND	14/8.96	6 1/4" DIA x 19 5/16"H	3/4"	1, 2, 3.
EXP	2	MECHANICAL ROOM 1486	STAND	14/8.96	6 1/4" DIA x 19 5/16"H	3/4"	1, 2, 3.

1. RATED FOR POTABLE WATER.
2. PRE-PRESSURIZED DIAPHRAGM TYPE - SET PRESSURE TO EQUAL DOMESTIC WATER STATIC PRESSURE.
3. SELECTION BASED ON AMTROL MODEL ST-30V-C.

PLUMBING THERMOSTATIC MIXING VALVE SCHEDULE

SYMBOL	EQUIPMENT TAG	LOCATION	GPM	PRESSURE DROP (PSI)	REMARKS
TMV	1	MECHANICAL ROOM B057	26.3	10	1, 4.
TMV	2	WELDING STORAGE C138D	53	5	2, 4.
TMV	3	HORTICULTURE D150	5.0	5	3, 4.

1. SELECTION BASED ON SYMMONS MODEL 5-400-102-PRZ-W HI-LO THERMOSTATIC MIXING VALVE.
2. SELECTION BASED ON GUARDIAN MODEL G3902LF TEMPERING VALVE.
3. SELECTION BASED ON SYMMONS MODEL 7-230-CK-M-T-W THERMOSTATIC POINT OF USE MIXING VALVE.
4. PROVIDE WITH SPARE THERMAL CARTRIDGE.

PLUMBING PUMP SCHEDULE

SYMBOL	EQUIPMENT TAG	SERVES	LOCATION	TYPE	GPM	TOTAL HEAD (FT of W.C.)	MOTOR DATA: HP	VOLT	PHASE	RPM	REMARKS
PP	1	BUILDING	MECHANICAL ROOM B057	IN-LINE	42	18	1/2	208	3	1725	1, 2, 3. TACO MODEL 132
PP	2	BUILDING	MECHANICAL ROOM B057	IN-LINE	6	7	1/8	115	1	3250	1, 2, 3. TACO MODEL 0010-IFC

1. SELECTION BASED ON TACO.
2. REFER TO SPECIFICATION SECTION 22 45 00.
3. PUMPS CONTROLLED BY BUILDING MANAGEMENT SYSTEM.

PLUMBING AIR COMPRESSOR SCHEDULE

SYMBOL	EQUIPMENT TAG	LOCATION	RECEIVER SIZE - GAL	PUMP: MAX PRESSURE (PSIG)	FLOW AT MAX PRESSURE (CFM)	ELECTRICAL: HP	VOLT	PH	HZ	REMARKS
PAC	1	TOOL STORAGE C133B	120 - SEPERATE TANK	150	168	40	460	3	60	1, 2, 7.
PAC	2	SHARED COMPRESSOR C134D	120	175	35	10	200	3	60	EXISTING TO BE REUSED, 3.
PAC	3	STORAGE C121 B	80	200	21.4	5	230	1	60	EXISTING TO BE REUSED, 4.
PAC	4	FIRE STORAGE E146	60	175	14.3	5	200	3	60	5, 6.

1. SELECTION BASED ON INGERSOLL RAND MODEL UP6-40-150.460-3 ROTARY SCREW AIR COMPRESSOR.
2. PROVIDE INGERSOLL RAND MODEL D300IN HIGH-EFFICIENCY REFRIGERATED DRYER.
3. PROVIDE INGERSOLL RAND MODEL D59EC HIGH-EFFICIENCY CYCLING DRYER.
4. PROVIDE INGERSOLL RAND MODEL D41EC HIGH-EFFICIENCY CYCLING DRYER.
5. SELECTION BASED ON INGERSOLL RAND MODEL 2340L5-V TWO STAGE CAST IRON AIR COMPRESSOR.
6. PROVIDE INGERSOLL RAND MODEL D31EC HIGH-EFFICIENCY CYCLING DRYER.
7. PROVIDE WITH INGERSOLL RAND 120 GALLON, VERTICAL, ASME RATED, AIR TANK .

PLUMBING SUMP PUMP SCHEDULE

SYMBOL	EQUIPMENT TAG	BASIN SIZE	LOCATION	TYPE	CAPACITY GPM	TOTAL HEAD FT of WC	MOTOR DATA: HP	VOLT	PHASE	RPM	REMARKS
SP	1	ELEV.	ELEV. 2145	SUMP PUMP	50	15	1/2	120	1	3500	1, 2, 3.
SP	2	ELEV.	ELEV. 2152	SUMP PUMP	50	15	1/2	120	1	3500	1, 2, 3.

1. REFER TO PLUMBING EQUIPMENT SPECIFICATION SECTION 22 45 00.
2. SELECTION BASED ON STANCOR MODEL SE-50, ELEVATOR PIT SUMP PUMP WITH OIL-MINDER CONTROL SYSTEM. SYSTEM TO BINCLUDE SUMP PUMP WITH 2" ø DISCHARGE, LEVEL CONTROL FLOAT SWITCH, OIL DETECTION PROBE, CHECK VALVE, CONTROL POWER AND ALARM CABLE, CONTROL AND ALARM PANEL WITH OIL DETECTION LOCKOUT AND POWER CORD.
3. SUMP PUMPS TO BE CONTROLLED BY BUILDING MANAGEMENT SYSTEM.

PLUMBING WATER HAMMER ARRESTER SCHEDULE

SYMBOL	PDI UNITS	FIXTURE UNITS	REMARKS
WH-1	A	1-11	1, ZURN MODEL Z-1700-100
WH-2	B	12-32	1, ZURN MODEL Z-1700-200
WH-3	C	33-60	1, ZURN MODEL Z-1700-300
WH-4	D	61-113	1, ZURN MODEL Z-1700-400

1. SELECTION BASED ON ZURN.

PLUMBING DOMESTIC WATER PIPE SIZING SCHEDLUE

1/2" CONNECTIONS	PIPE SIZE	WATER CLOSET FLUSH VALVES	PIPE SIZE	URINAL FLUSH VALVES	PIPE SIZE	REMARKS
1 - 2	1/2"	1	1 1/2"	1	1 1/4"	1, 2, 3.
3 - 4	3/4"	2 - 5	2"	2 - 8	1 1/2"	1, 2, 3.
5 - 6	1"	OVER 6	2 1/2" (+)	OVER 8	2" (+)	1, 2, 3.
OVER 6	VARIES	-	-	-	-	1, 2, 3.

1. BRANCH SUPPLY PIPE SIZE TO TOILET ROOMS AND FIXTURE GROUPS SHALL BE AS INDICATED ON PLANS.
2. CONNECT BRANCH SUPPLY TO DOMESTIC COLD WATER AND HOT WATER PIPING TO EACH PLUMBING FIXTURE IN ACCORDANCE WITH THIS PIPE SIZE SCHEDULE.
3. PROVIDE WATER HAMMER ARRESTERS IN THE BRANCH PIPING TO EACH TOILET ROOM OR FIXTURE GROUP AS SCHEDULED.

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Sanford School Department and State of Maine Department of Education

SANFORD HIGH SCHOOL and TECHNICAL CENTER

SANFORD, ME 04073

NO.	DESCRIPTION	DATE

FOR ADDITIONAL INFORMATION, REFER TO PROJECT MANUAL.

CONTENT:
PLUMBING SCHEDULES

DRAWN BY: A. SAK
PROJECT NO: 12-067-00
DATE: 02/11/2016
REVISED:
SCALE: NO SCALE

P5.01

Project Phase
BID DOCUMENTS

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FIRE PROTECTION LEGEND

- (NAME) — NEW PIPING (BOLD)
- (NAME) — EXISTING PIPING (LIGHT)
- F — FIRE PROTECTION WATER MAIN
- SPKR — SPRINKLER MAIN/BRANCH
- SP — STANDPIPE MAIN
- DR — SPRINKLER DRAIN
- LOW PRESSURE DROP DOUBLE CHECK BACKFLOW PREVENTER
- O.S. & Y. OR OTHER INDICATING VALVE WITH TAMPER SWITCH
- FLOW SWITCH
- CHECK VALVE
- ELECTRIC BELL
- W — WET ALARM VALVE
- D — DRY ALARM VALVE
- P — PRE-ACTION VALVE
- PIPE CONTINUES
- STRAINER
- FIRE DEPARTMENT CONNECTION - STORZ
- BRANCH OUT OF TOP OF MAIN
- BRANCH OUT OF BOTTOM OF MAIN
- CAP
- UNION
- EXPANSION JOINT
- PIPING AND DEVICES TO BE REMOVED
- // — PIPING WITH HEAT TRACE AND INSULATION
- XX — NODE POINT USED FOR HYDRAULIC REFERENCE
- BALL VALVE
- INSPECTORS TEST & DRAIN
- FIRE HOSE VALVE
- FIRE HOSE VALVE AND CABINET
- S-1 — SPRINKLER APPLICATION FOR INSTALLATION OF SPRINKLER HEADS OR PIPING ARRANGEMENT NOTE

FIRE PROTECTION ABBREVIATIONS

CONN	CONNECT
D	DRY SPRINKLER
DEPT	DEPARTMENT
F	FIRE PROTECTION
F.D.	FIRE DEPARTMENT
FHC	FIRE HOSE CABINET
FHV	FIRE HOSE VALVE
FHVC	FIRE HOSE VALVE CABINET
FP	FIRE PUMP
GC	GENERAL CONTRACTOR
P.I.V.	POST INDICATOR VALVE
SP	STANDPIPE
SPKR	SPRINKLER
W	WET SPRINKLER
W/	WITH

FIRE PROTECTION TRADE NOTES

FP-1 COORDINATE LOCATION OF ALL PIPING AND EQUIPMENT WITH ALL OTHER TRADES.

FP-2 MAINTAIN MINIMUM REQUIRED WORKING CLEARANCES ADJACENT TO ELECTRICAL EQUIPMENT PER LATEST EDITION OF NATIONAL ELECTRIC CODE.

FP-3 PROVIDE PIPE SLEEVES WHEREVER PIPING PENETRATES ANY WALL, FLOOR, OR CEILING.

FP-4 INSTALL ALL PIPING AND WIRING NEATLY AND SQUARE WITH BUILDING FEATURES.

FP-5 ALL PENETRATIONS THROUGH NEW OR EXISTING WALLS, CEILINGS AND FLOORS SHALL BE EITHER CORE DRILLED OR SAW CUT. CHISELED OR HAMMERED PENETRATIONS ARE NOT ALLOWED.

FP-6 WHERE PIPING PENETRATES A FIRE-RATED WALL, FLOOR, OR CEILING, FIRE STOPPING INSULATION SHALL BE PROVIDED BY THE FIRE PROTECTION CONTRACTOR.

FP-7 THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING ACCESS PANELS IN AREAS TO BE FINISHED BY GENERAL CONTRACTOR. THE FIRE PROTECTION CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING ALL OTHER ACCESS DOORS. COORDINATE AS REQUIRED.

FP-8 ALL PIPING SHALL BE INSTALLED AS HIGH AS POSSIBLE, UNLESS OTHERWISE INDICATED.

FP-9 FIRE PROTECTION SUB-CONTRACTOR SHALL COORDINATE FINAL SPRINKLER HEAD LAYOUT WITH MOST CURRENT ARCHITECTURAL REFLECTED CEILING PLAN. FINAL HEAD LAYOUT SHALL BE INCLUDED ON THE SUBMITTAL DRAWINGS WHICH SHALL BE APPROVED BY THE ARCHITECT AND ENGINEER PRIOR TO INSTALLATION.

GENERAL NOTES

THE FOLLOWING GENERAL NOTES APPLY TO ALL RIST-FROST-SHUMWAY ENGINEERING, P.C., DRAWINGS AND TRADES ASSOCIATED WITH THOSE DRAWINGS INVOLVED ON THIS PROJECT:

G-1 RIST-FROST-SHUMWAY ENGINEERING, P.C., WAIVES ANY AND ALL RESPONSIBILITY AND LIABILITY FOR PROBLEMS WHICH ARISE FROM FAILURE TO FOLLOW THESE PLANS, SPECIFICATIONS, AND/OR THE DESIGN INTENT THEY CONVEY, OR FOR PROBLEMS WHICH ARISE FROM OTHERS' FAILURE TO OBTAIN AND/OR FOLLOW THE GUIDANCE OF RIST-FROST-SHUMWAY ENGINEERING, P.C., GUIDANCE WITH RESPECT TO ANY ERRORS, OMISSIONS, INCONSISTENCIES, AMBIGUITIES, OR CONFLICTS WHICH ARE DISCOVERED OR ALLEGED.

G-2 ALL WORK SHALL CONFORM TO ALL FEDERAL, STATE, AND LOCAL CODES AND STANDARDS INCLUDING, BUT NOT LIMITED TO, IBC 2009, IMC 2009, IPC 2009, NFPA, UL, ANSI, OSHA AND NEC.

G-3 CONTRACTOR AND ALL SUBCONTRACTORS SHALL PROTECT THE WORK SITE, SURROUNDING AREAS AND OCCUPANTS FROM DAMAGE AND INJURY.

G-4 CONTRACTOR AND ALL SUBCONTRACTORS SHALL FAMILIARIZE THEMSELVES WITH THE CONTRACT DOCUMENTS. ALL DRAWINGS OF ANY PARTICULAR TRADE SHALL BE USED IN CONJUNCTION WITH DRAWINGS OF ALL OTHER TRADES TO COORDINATE ALL CONSTRUCTION. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER BEFORE PROCEEDING WITH THE AFFECTED WORK. ANY PROPOSED CHANGES, VARIATIONS, OR SUBSTITUTIONS MUST BE REVIEWED AND ACCEPTED BY THE ENGINEER PRIOR TO IMPLEMENTATION.

G-5 ALL DRAWINGS ARE INTENDED TO SHOW THE GENERAL ARRANGEMENT, DESIGN INTENT AND EXTENT OF THE WORK. THEY SHALL BE CONSIDERED PARTLY DIAGRAMMATIC. THEY ARE NOT INTENDED TO BE SCALED FOR ROUGHING-IN MEASUREMENTS OR TO SERVE AS SHOP DRAWINGS.

G-6 THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL DIMENSIONS (AS-BUILT OR OTHERWISE) BEFORE COMMENCING FABRICATION, AND/OR ORDERING MATERIALS.

G-7 DETAILS SHOWN ON ANY DRAWING ARE TO BE CONSIDERED TYPICAL FOR ALL SIMILAR CONDITIONS, UNLESS OTHERWISE INDICATED.

G-8 IN THE EVENT THE CONTRACTOR ENCOUNTERS MATERIAL REASONABLY BELIEVED TO BE HAZARDOUS WHICH HAS NOT BEEN RENDERED HARMLESS, THE CONTRACTOR SHALL IMMEDIATELY STOP WORK IN THE AREA AFFECTED AND REPORT THE CONDITION TO THE OWNER AND ARCHITECT/ENGINEER IN WRITING. THE WORK IN THE AFFECTED AREA SHALL NOT BE RESUMED UNTIL WRITTEN VERIFICATION BY THE OWNER THAT THE MATERIAL HAS BEEN REMOVED OR OTHERWISE RENDERED HARMLESS.

SYMBOL	SPRINKLER HEAD	SPRINKLER PIPING	APPLICATION
S-1	VICTAULIC MODEL V2708 QUICK RESPONSE RECESSED PENDANT, 155°F TEMPERATURE RATING, 1/2" ORIFICE, 5.6 "K" FACTOR. PROVIDE MODEL V27 RECESSED ESCUTCHEON WITH UP TO 3/4" OF ADJUSTMENT.	SPRINKLER PIPING SHALL BE INSTALLED ABOVE FINISHED CEILING. EXPOSED PIPING SHALL NOT BE ALLOWED.	ALL ROOMS OR AREAS WITH FINISHED CEILINGS UNLESS OTHERWISE NOTED.
S-2	VICTAULIC MODEL V2704/V2708 QUICK RESPONSE UPRIGHT/PENDANT, 155°F TEMPERATURE RATING, 1/2" ORIFICE, 5.6 "K" FACTOR.	SPRINKLER PIPING SHALL BE INSTALLED EXPOSED. ALL PIPING SHALL BE INSTALLED AS HIGH AS POSSIBLE, PARALLEL AND PLUM RELATIVE TO MAJOR ARCHITECTURAL AND STRUCTURAL FEATURES OF THE SPACE. ADDITIONAL SPRINKLER HEADS SHALL BE PROVIDED BENEATH ALL DUCTWORK, EQUIPMENT AND OTHER OBSTRUCTIONS EXCEEDING 48" IN WIDTH IN CONFORMANCE WITH NFPA 13.	ROOMS OR AREAS WITH EXPOSED STRUCTURE AND NO SUSPENDED CEILINGS.
S-3	VICTAULIC MODEL V2704/V3802 QUICK RESPONSE UPRIGHT/ CONCEALED PENDANT, 155°F TEMPERATURE RATING, 1/2" ORIFICE, 5.6 "K" FACTOR. PROVIDE ADJUSTABLE CONCEALED SPRINKLER ASSEMBLY FOR ALL CONCEALED SPRINKLER HEADS.	SPRINKLER PIPING SHALL BE INSTALLED EXPOSED OR ABOVE SUSPENDED CEILING CLOUDS. ALL PIPING SHALL BE INSTALLED AS HIGH AS POSSIBLE, PARALLEL AND PLUM RELATIVE TO MAJOR ARCHITECTURAL AND STRUCTURAL FEATURES OF THE SPACE. ADDITIONAL SPRINKLER HEADS SHALL BE PROVIDED TO PROTECT BOTH ABOVE AND BELOW ALL OBSTRUCTIONS EXCEEDING 48" IN WIDTH IN CONFORMANCE WITH NFPA 13.	ROOMS OR AREAS WITH EXPOSED STRUCTURE AND SUSPENDED CEILING CLOUDS OR OBSTRUCTIONS.
S-4	VICTAULIC MODEL V3606 QUICK RESPONSE DRY TYPE RECESSED PENDANT, 155°F TEMPERATURE RATING, 1/2" ORIFICE, 5.6 "K" FACTOR. PROVIDE RECESSED ESCUTCHEON WITH UP TO 3/4" OF ADJUSTMENT.	SPRINKLER PIPING SHALL BE INSTALLED ABOVE FINISHED CEILING. EXPOSED PIPING SHALL NOT BE ALLOWED.	ENTRY VESTIBULES AND SIMILAR OCCUPANCIES.
S-5	VICTAULIC VICFLEX MODEL V36 WITH INTEGRAL STYLE AB6 ASSEMBLY TO BE USED IN COLD STORAGE APPLICATIONS. VICTAULIC MODEL V 3608 QUICK RESPONSE DRY TYPE RECESSED PENDANT, 155°F TEMPERATURE RATING, 17/32" ORIFICE, 8.0 "K" FACTOR. PROVIDE RECESSED ESCUTCHEON WITH UP TO 3/4" OF ADJUSTMENT. INCLUDE FLEXIBLE STAINLESS STEEL HOSE AND STEEL BRACKET ASSEMBLY.	SPRINKLER PIPING SHALL BE INSTALLED ABOVE FINISHED CEILING. EXPOSED PIPING SHALL NOT BE ALLOWED.	COOLERS AND FREEZERS.
S-6	VICTAULIC MODEL V3610 QUICK RESPONSE DRY TYPE HORIZONTAL SIDEWALL, 155°F TEMPERATURE RATING, 1/2" ORIFICE, 5.6 "K" FACTOR. PROVIDE MODEL V27 FLUSH ESCUTCHEON.	SPRINKLER PIPING SHALL BE INSTALLED INSIDE THE BUILDING ENVELOPE, ABOVE FINISHED CEILING. EXPOSED PIPING SHALL NOT BE ALLOWED.	EXTERIOR STORAGE, SERVER/MDF ROOMS AND SIMILAR OCCUPANCIES.
S-7	VICTAULIC MODEL V2708 QUICK RESPONSE RECESSED PENDANT, 155°F TEMPERATURE RATING, 1/2" ORIFICE, 5.6 "K" FACTOR INSTALLED AT THE FLOATING CEILING. PROVIDE MODEL V27 RECESSED ESCUTCHEON WITH UP TO 3/4" OF ADJUSTMENT. VICTAULIC MODEL V2704 QUICK RESPONSE UPRIGHT, 155°F TEMPERATURE RATING, 1/2" ORIFICE, 5.6 "K" FACTOR INSTALLED ABOVE THE FLOATING CEILING IN CONFORMANCE WITH NFPA 13.	SPRINKLER PIPING SHALL BE INSTALLED ABOVE THE FLOATING CEILING. ANY PIPING VISIBLE TO VIEW SHALL BE INSTALLED AS HIGH AS POSSIBLE, PARALLEL AND PLUM RELATIVE TO MAJOR ARCHITECTURAL AND STRUCTURAL FEATURES OF THE SPACE. ADDITIONAL SPRINKLER HEADS SHALL BE PROVIDED TO PROTECT BOTH ABOVE AND BELOW ALL OBSTRUCTIONS EXCEEDING 48" IN WIDTH IN CONFORMANCE WITH NFPA 13.	ALL ROOMS OR AREAS WITH FLOATING CEILINGS UNLESS OTHERWISE NOTED.

* ENTIRE FACILITY SHALL BE PROVIDED WITH AUTOMATIC SPRINKLER PROTECTION IN CONFORMANCE WITH NFPA 13. REFER TO SPRINKLER APPLICATION FOR INSTALLATION OF SPRINKLER HEADS OR PIPING ARRANGEMENT FOR ANY ROOM OR AREA THAT MAY NOT HAVE A SCHEDULE SYMBOL. ANY ROOM OR AREA SHOWN IN PLAN WITH SPRINKLER HEADS AND PIPING SHALL TAKE PRECEDENCE OVER THIS SCHEDULE.

** IT IS THE PROJECT INTENT TO PROVIDE ALL AREAS THE HAVE EXTERIOR OVERHEAD DOORS WITH A DRY-PIPE SPRINKLER SYSTEM.

PROVIDE WET AUTOMATIC SPRINKLER SYSTEM OVER ENTIRE FLOOR. SYSTEM SHALL BE BASED ON NFPA 13 COVERAGE REQUIREMENTS ACCORDING TO THE FOLLOWING GENERAL GUIDELINES:

LOCATION	DENSITY AND AREA
1. TOILET ROOMS, CORRIDORS, ADMIN. AREAS, AUDITORIUM (EXCLUDING STAGE) AND GENERAL CLASSROOMS WHERE COMBUSTIBILITY IS AT A MINIMUM SHALL BE CONSIDERED LIGHT HAZARD.	WET-PIPE, 0.10 GPM/SQ. FT. OVER 1500 SQ. FT.
2. CHEMISTRY, BIOLOGY, SCIENCE, LAB PREP, GENERAL LAB CLASSROOMS AND KITCHEN SERVICE AREAS SHALL BE CONSIDERED ORDINARY HAZARD GROUP I.	WET-PIPE, 0.15 GPM/SQ. FT. OVER 1500 SQ. FT.
3. ELECTRIC, IT/DATA, LIBRARY STACK AREAS, STAGE, MECHANICAL AND STORAGE ROOMS SHALL BE CONSIDERED ORDINARY HAZARD GROUP II.	WET-PIPE, 0.20 GPM/SQ. FT. OVER 1500 SQ. FT.
4. AUTOMOTIVE, BUILDING TRADES, CTE EXPLORATORY, WELDING FABRICATION, PRECISION MANUFACTURING, FIRE FIGHTING SCIENCE AND INCUBATOR ROOMS SHALL BE CONSIDERED ORDINARY HAZARD GROUP I.	DRY-PIPE, 0.15 GPM/SQ. FT. OVER 1950 SQ. FT.

IN AREAS WHERE SEVERAL DIFFERENT OCCUPANCIES EXIST THE SPRINKLER SYSTEMS SHALL BE DESIGNED TO MEET THE MOST HYDRAULICALLY DEMANDING DENSITY AND AREA REQUIREMENTS. AN ALLOWANCE OF 100 GPM SHALL BE INCORPORATED IN DESIGN FOR HOSE STREAMS.

CONTRACTOR SHALL INSTALL NEW SPRINKLER HEADS IN ACCORDANCE WITH THE ABOVE DESIGN CRITERIA AND SHALL COORDINATE DESIGN CRITERIA WITH BUILDING OWNER'S INSURANCE COMPANY.

SPRINKLER HEAD SCHEDULE

SYMBOL	STYLE	MANUFACTURER AND MODEL
◉	RECESSED PENDANT	VICTAULIC MODEL V2708 QUICK RESPONSE RECESSED PENDANT, 155°F TEMPERATURE RATING, 1/2" ORIFICE, 5.6 "K" FACTOR. PROVIDE MODEL V27 RECESSED ESCUTCHEON WITH UP TO 3/4" OF ADJUSTMENT.
●	CONCEALED PENDANT	VICTAULIC MODEL V3802 QUICK RESPONSE CONCEALED PENDANT, 155°F TEMPERATURE RATING, 1/2" ORIFICE, 5.6 "K" FACTOR. PROVIDE ADJUSTABLE CONCEALED SPRINKLER ASSEMBLY FOR ALL CONCEALED SPRINKLER HEADS.
○	UPRIGHT	VICTAULIC MODEL V2704/V2708 QUICK RESPONSE UPRIGHT/PENDANT, 155°F TEMPERATURE RATING, 1/2" ORIFICE, 5.6 "K" FACTOR.
◁	SIDEWALL	VICTAULIC MODEL V27108 QUICK RESPONCE RECESSED HORIZONTAL SIDEWALL, 155°F TEMPERATURE RATING, 1/2" ORIFICE, 5.6 "K" FACTOR.
◁ D	DRY SIDEWALL	VICTAULIC MODEL V3610 QUICK RESPONCE RECESSED HORIZONTAL SIDEWALL, 155°F TEMPERATURE RATING, 1/2" ORIFICE, 5.6 "K" FACTOR.

* SPRINKLER HEADS SHALL BE INSTALLED IN CONFORMANCE WITH MANUFACTURERS RECOMMENDATIONS AND SHALL NOT BE OBSTRUCTED BY LIGHTING FIXTURES.

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SANFORD, ME 04073

NO.	DESCRIPTION	DATE

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CONTENT:
FIRE PROTECTION SYMBOLS LEGEND AND TRADE NOTES

DRAWN BY:	A. SAK
PROJECT NO:	12-067-00
DATE:	02/11/2016
REVISED:	
SCALE:	1/8" = 1'-0"

FP0.01

Project Phase
BID DOCUMENTS

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1 FIRST FLOOR - FIRE PROTECTION ZONING PLAN
1/32" = 1'-0"

2 BASEMENT - FIRE PROTECTION ZONING PLAN
1/32" = 1'-0"

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NO.	DESCRIPTION	DATE

CONTENT:
FIRE PROTECTION BASEMENT & FIRST FLOOR ZONING PLAN

DRAWN BY:	A. SAK
PROJECT NO:	12-067-00
DATE:	02/11/2016
REVISED:	
SCALE:	1/32" = 1'-0"

FP0.02

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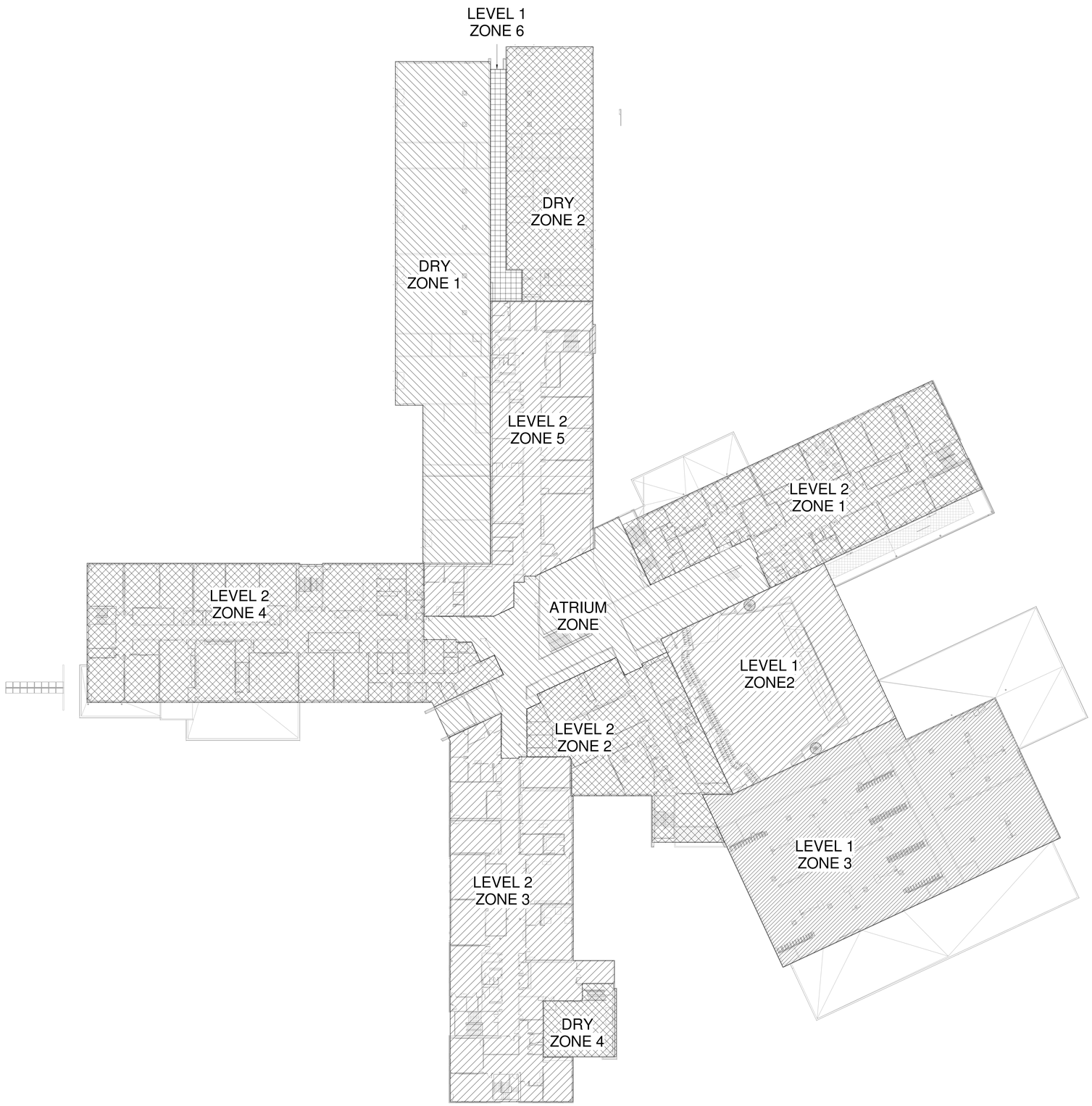

1 SECOND FLOOR - FIRE PROTECTION ZONING PLAN
1/32" = 1'-0"

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CONTENT:
FIRE PROTECTION SECOND FLOOR ZONING PLAN

DRAWN BY:	A. SAK
PROJECT NO:	12-067-00
DATE:	02/11/2016
REVISED:	
SCALE:	1/32" = 1'-0"

FP0.03

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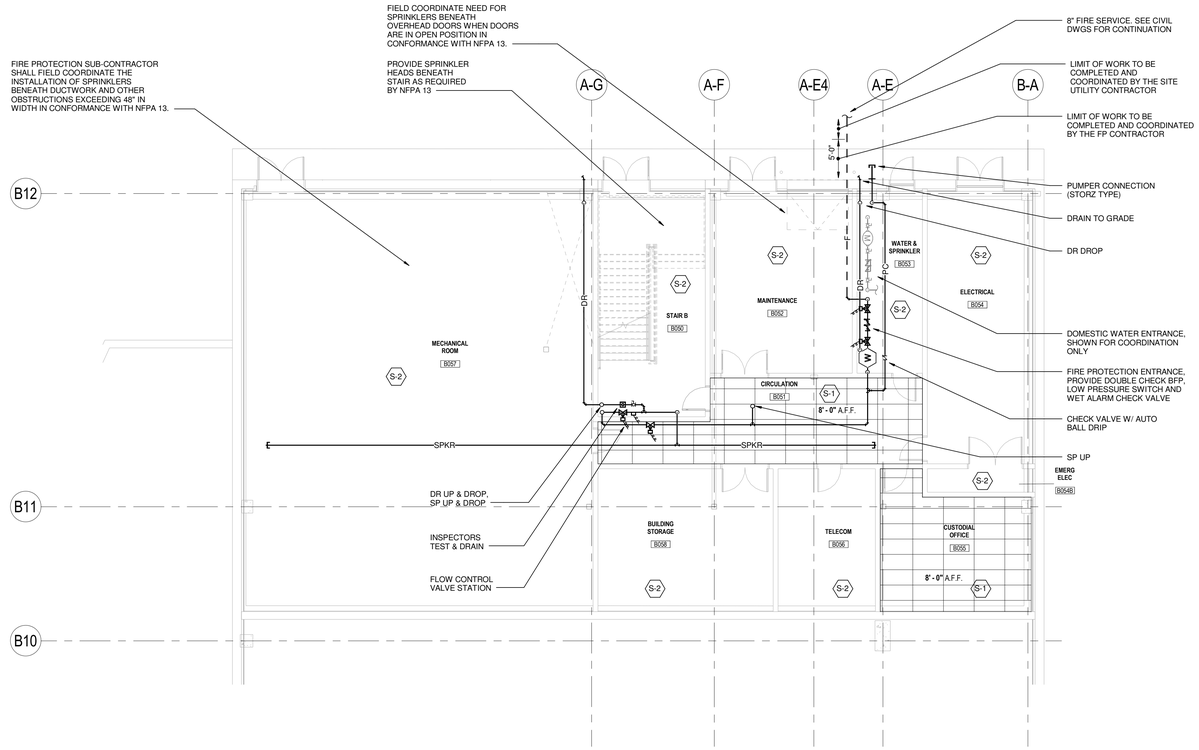

1 BASEMENT - FIRE PROTECTION PLAN
1/8" = 1'-0"

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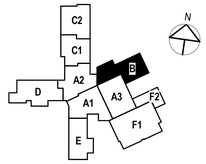

CONTENT:
BASEMENT FIRE PROTECTION PLAN

DRAWN BY:	A. SAK
PROJECT NO:	12-067-00
DATE:	02/11/2016
REVISED:	
SCALE:	1/8" = 1'-0"

FP1.09

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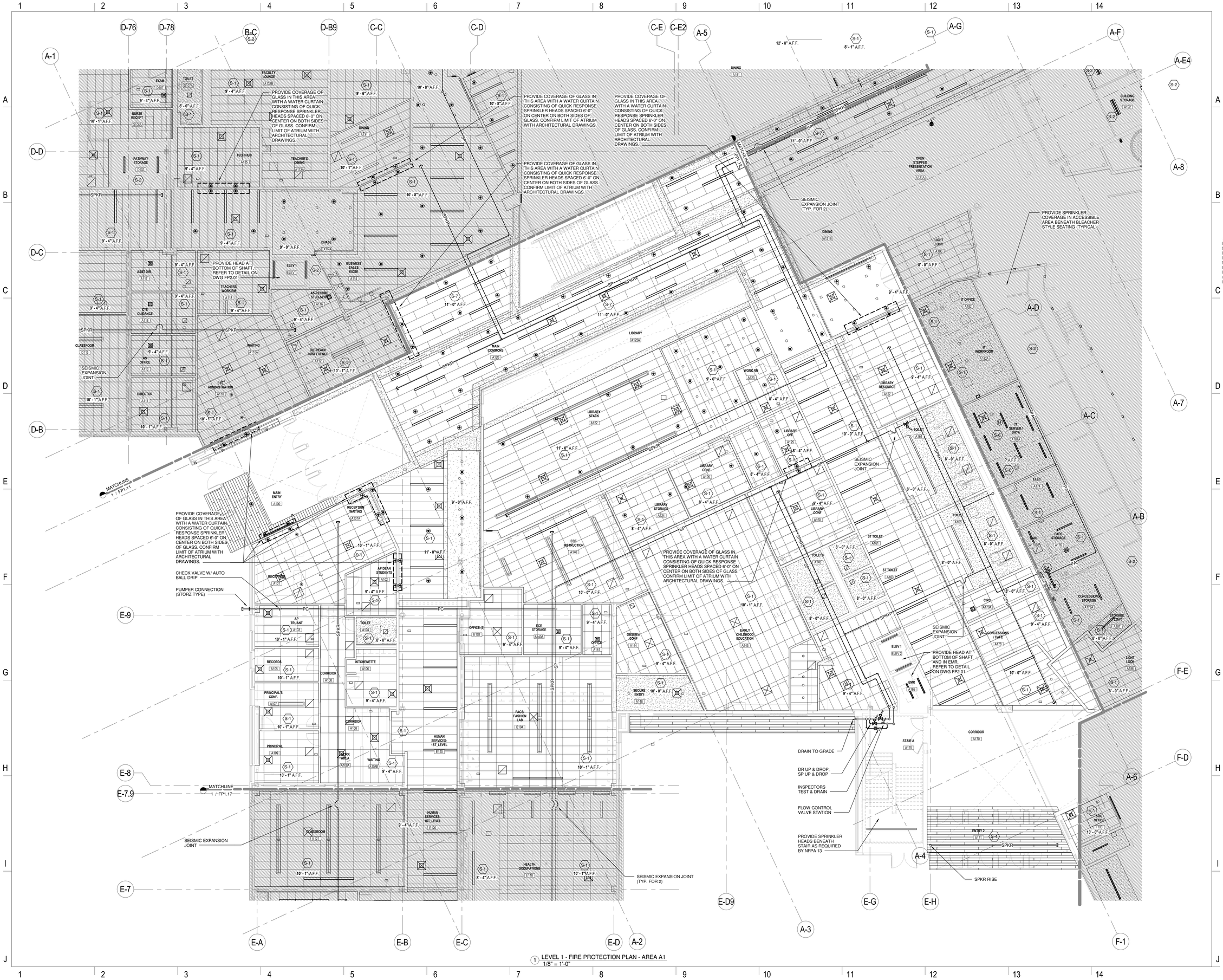

1 LEVEL 1 - FIRE PROTECTION PLAN - AREA A1
1/8" = 1'-0"

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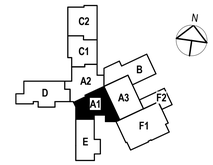

CONTENT:
FIRST FLOOR FIRE PROTECTION PLAN - AREA A1

DRAWN BY:	A. SAK
PROJECT NO:	12-067-00
DATE:	02/11/2016
REVISED:	
SCALE:	1/8" = 1'-0"

FP1.10

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1 LEVEL 1 - FIRE PROTECTION PLAN - AREA A2
1/8" = 1'-0"

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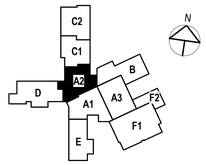

CONTENT:
FIRST FLOOR FIRE PROTECTION PLAN - AREA A2

DRAWN BY:	A. SAK
PROJECT NO:	12-067-00
DATE:	02/11/2016
REVISED:	
SCALE:	1/8" = 1'-0"

FP1.11

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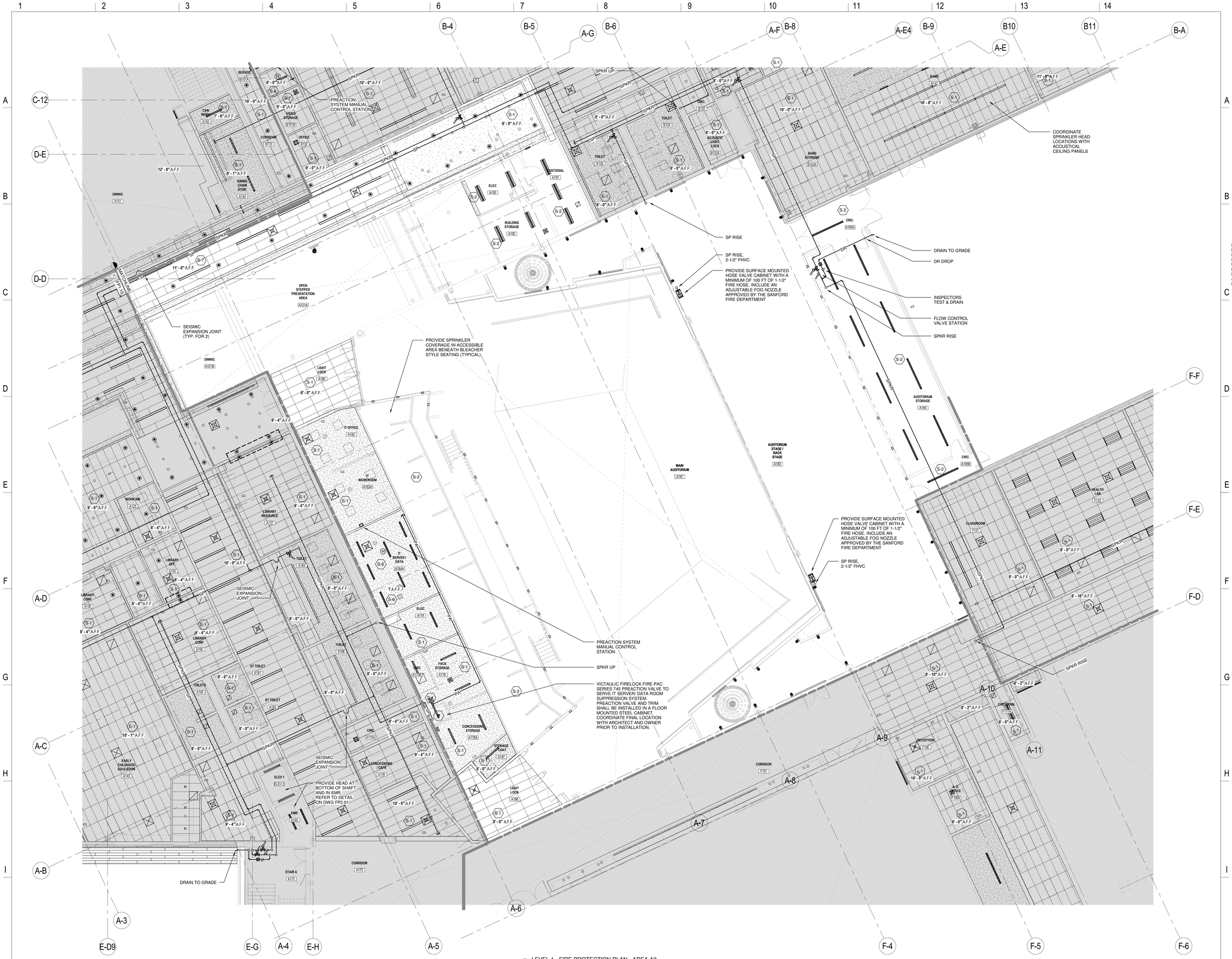

1 LEVEL 1 - FIRE PROTECTION PLAN - AREA A3
1/8" = 1'-0"

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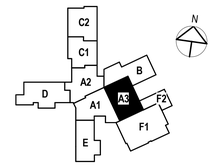

CONTENT:
FIRST FLOOR FIRE PROTECTION PLAN - AREA A3

DRAWN BY:	A. SAK
PROJECT NO:	12-067-00
DATE:	02/11/2016
REVISED:	
SCALE:	1/8" = 1'-0"

FP1.12

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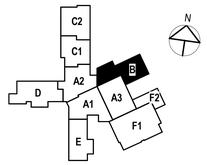

CONTENT:
FIRST FLOOR FIRE PROTECTION PLAN - AREA B

DRAWN BY:	A. SAK
PROJECT NO:	12-067-00
DATE:	02/11/2016
REVISED:	
SCALE:	1/8" = 1'-0"

FP1.13

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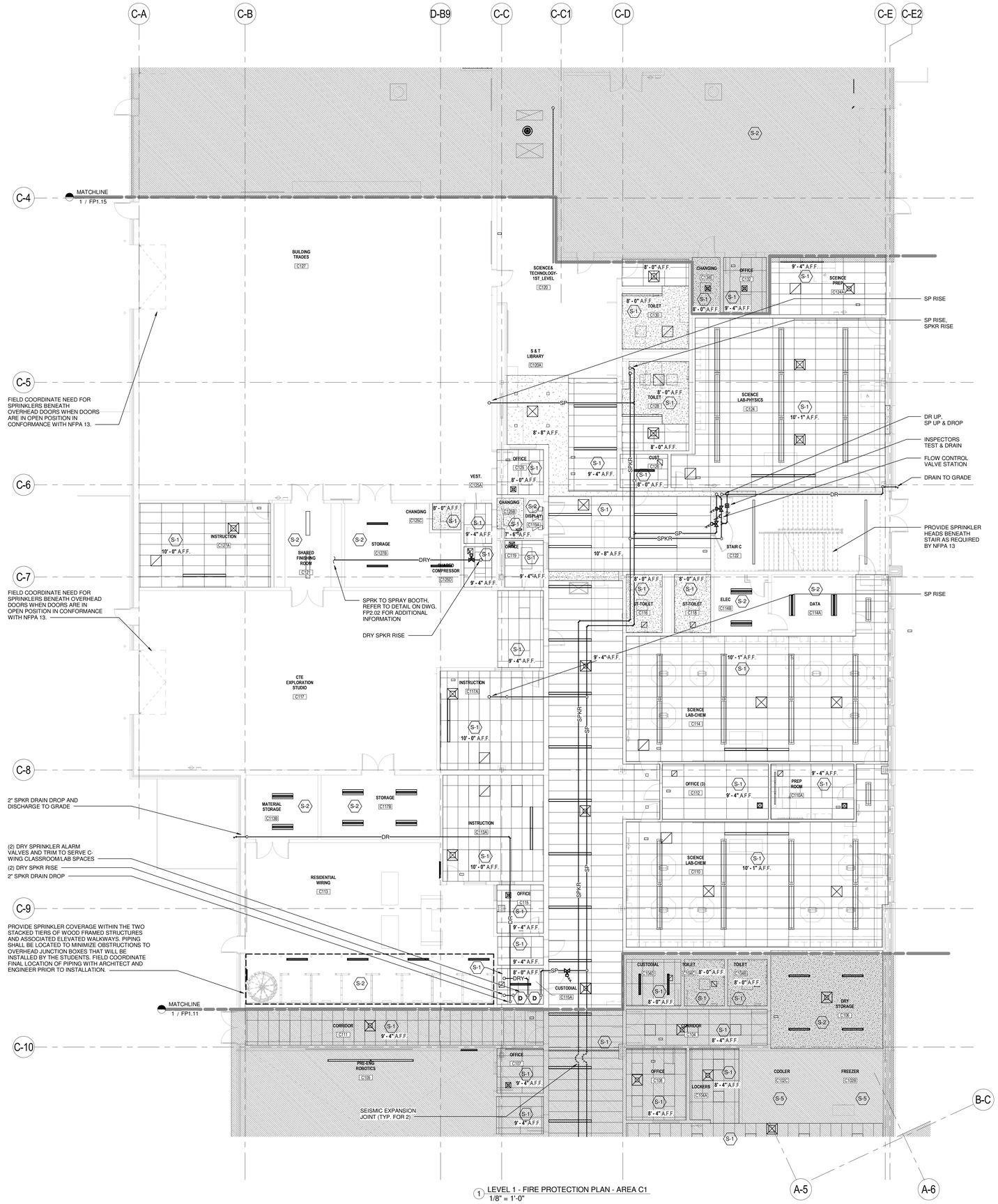

1 LEVEL 1 - FIRE PROTECTION PLAN - AREA C1
1/8" = 1'-0"

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C2 C1 A2 B D A1 A3 F2 F1 E

CONTENT:
FIRST FLOOR FIRE PROTECTION PLAN - AREA C1

DRAWN BY:	A. SAK
PROJECT NO:	12-067-00
DATE:	02/11/2016
REVISED:	
SCALE:	1/8" = 1'-0"

FP1.14

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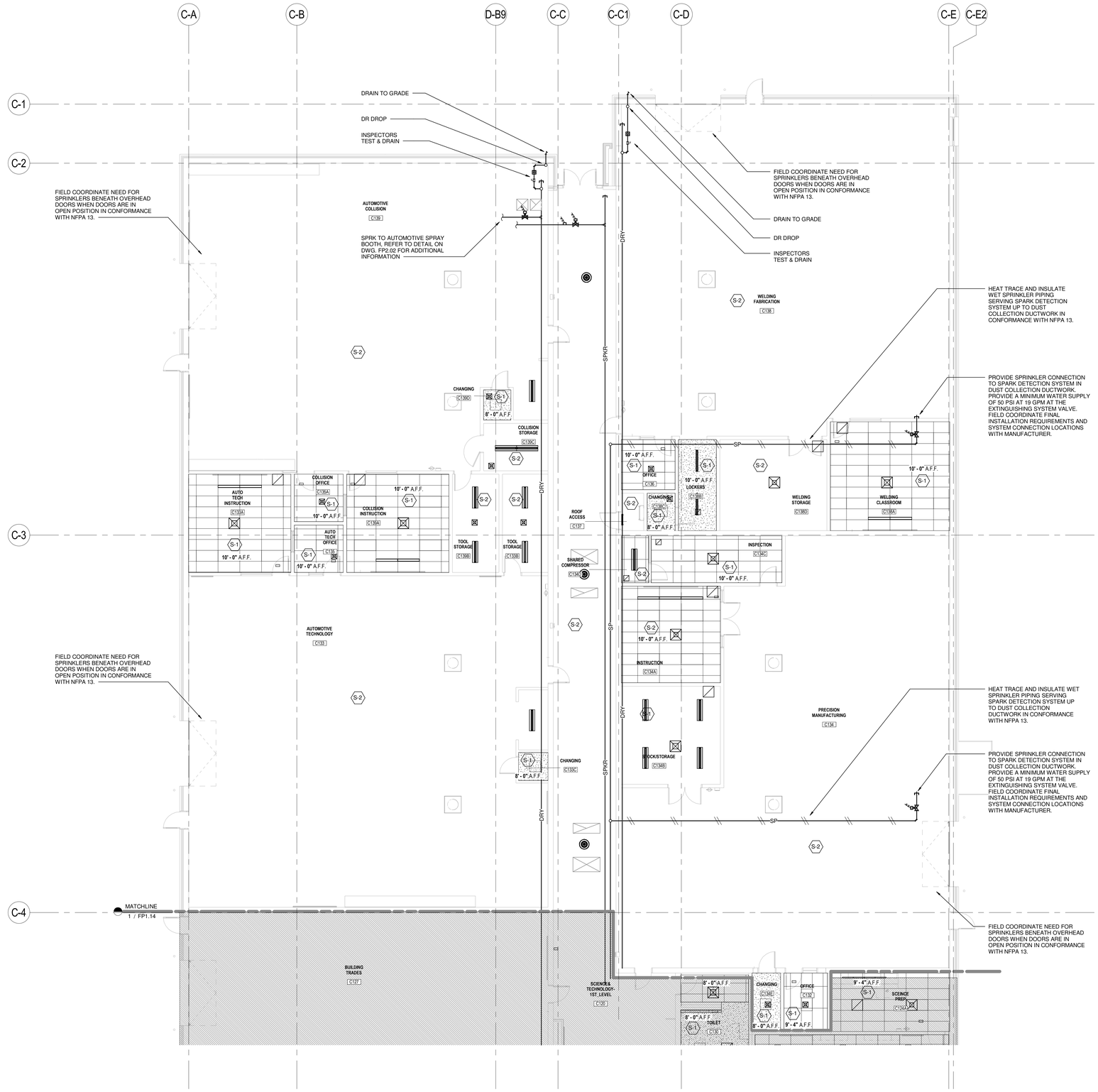

1 LEVEL 1 - FIRE PROTECTION PLAN - AREA C2
1/8" = 1'-0"

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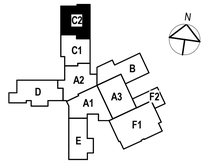

CONTENT:
FIRST FLOOR FIRE PROTECTION PLAN - AREA C2

DRAWN BY:	A. SAK
PROJECT NO:	12-067-00
DATE:	02/11/2016
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SCALE:	1/8" = 1'-0"

FP1.15

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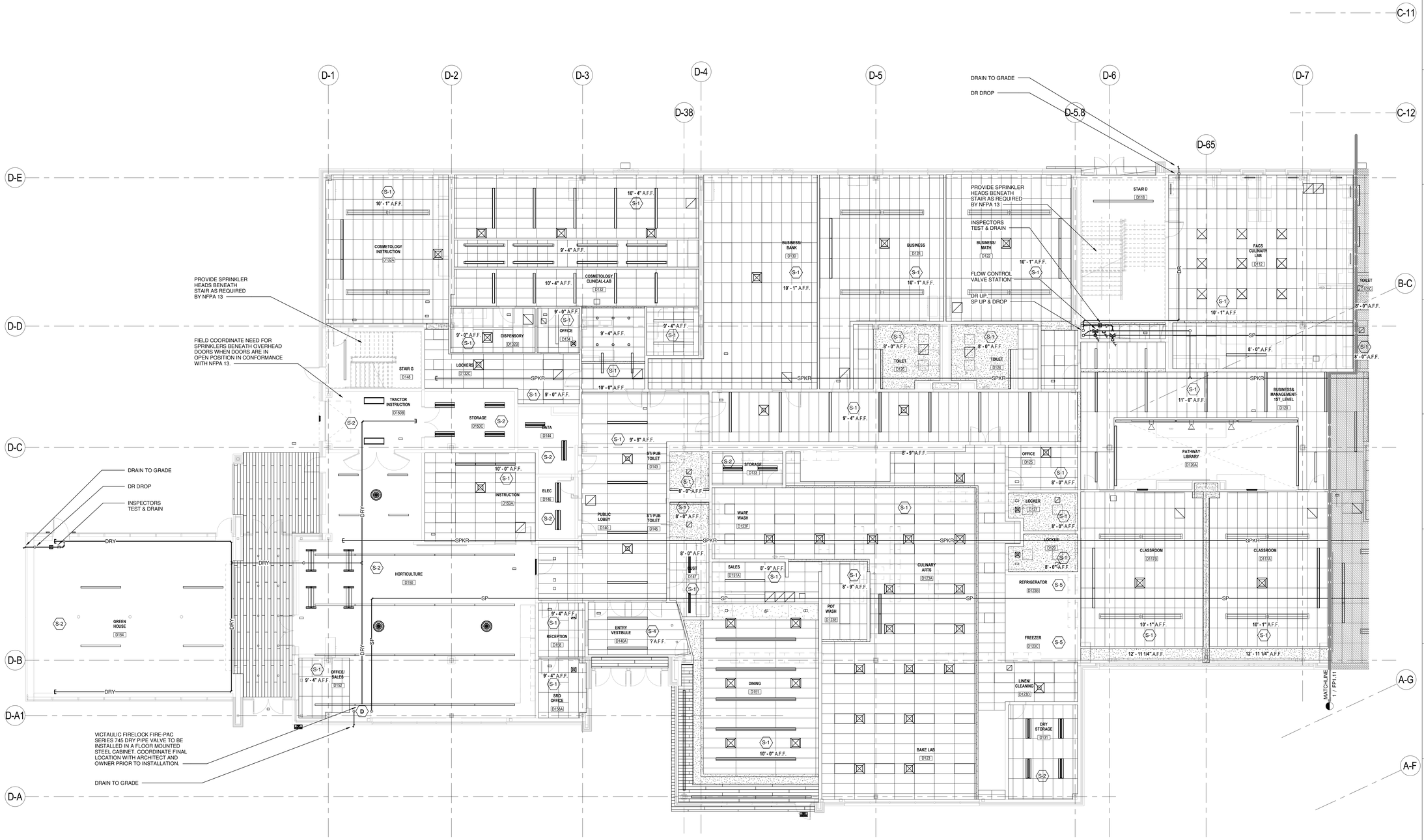

1 LEVEL 1 - FIRE PROTECTION PLAN - AREA D
1/8" = 1'-0"

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NO.	DESCRIPTION	DATE

CONTENT:
FIRST FLOOR FIRE PROTECTION PLAN - AREA D

DRAWN BY:	A. SAK
PROJECT NO:	12-067-00
DATE:	02/11/2016
REVISED:	
SCALE:	1/8" = 1'-0"

FP1.16

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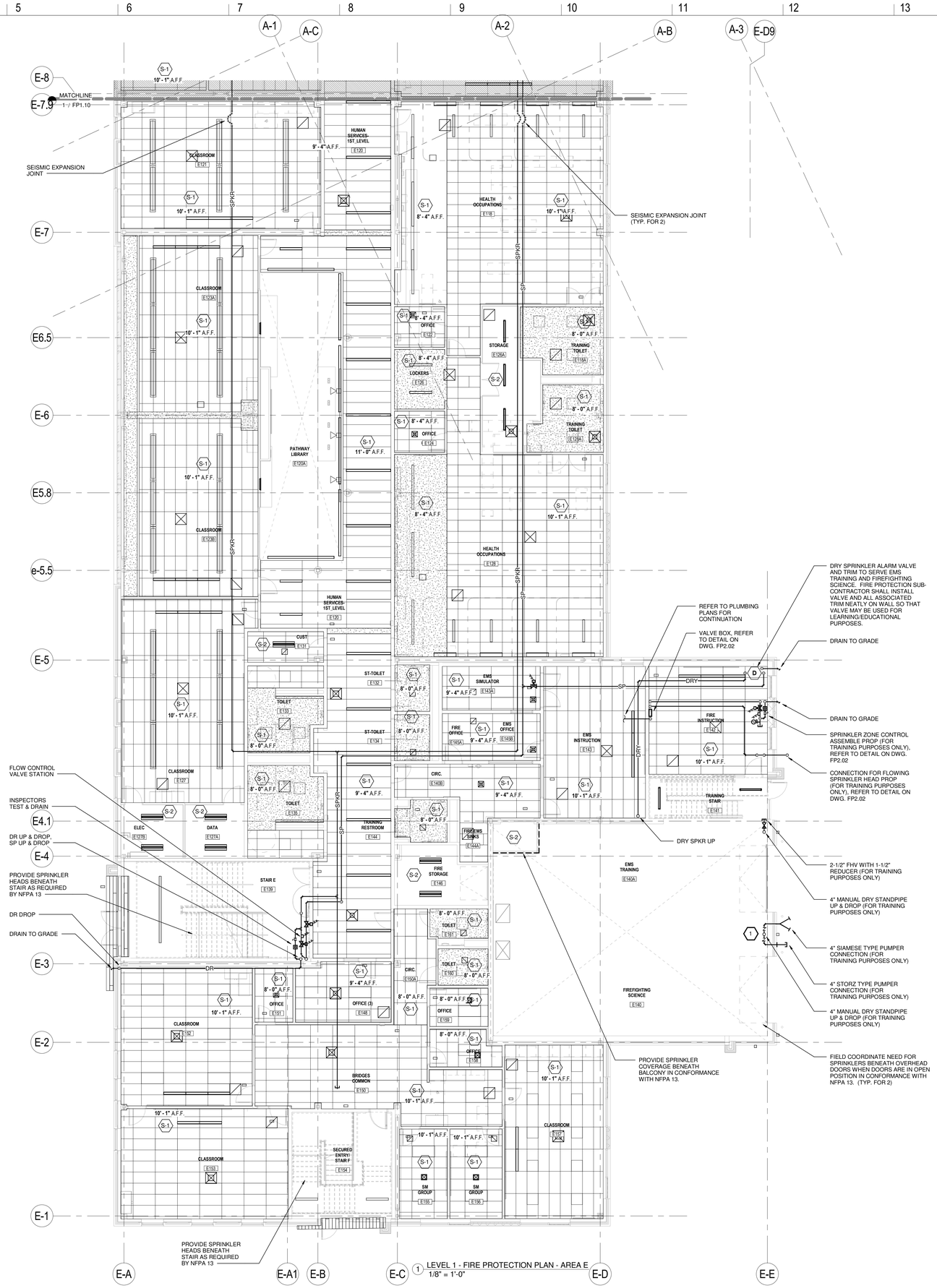

1 LEVEL 1 - FIRE PROTECTION PLAN - AREA E
1/8" = 1'-0"

GENERAL DRAWING NOTE:

1 FIRE PROTECTION SUB-CONTRACTOR SHALL PROVIDE ADDITIONAL SIGNAGE ON FIRE DEPARTMENT PUMPER CONNECTIONS THAT CLEARLY IDENTIFIES THEM FOR TRAINING PURPOSES ONLY.

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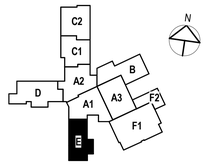

CONTENT:
FIRST FLOOR FIRE PROTECTION PLAN - AREA E

DRAWN BY:	A. SAK
PROJECT NO:	12-067-00
DATE:	02/11/2016
REVISED:	
SCALE:	1/8" = 1'-0"

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1 LEVEL 1 - FIRE PROTECTION PLAN - AREA F1
1/8" = 1'-0"

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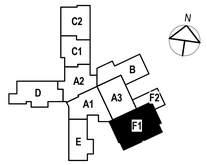

CONTENT:
FIRST FLOOR FIRE PROTECTION PLAN - AREA F1

DRAWN BY:	A. SAK
PROJECT NO:	12-067-00
DATE:	02/11/2016
REVISED:	
SCALE:	1/8" = 1'-0"

FP1.18

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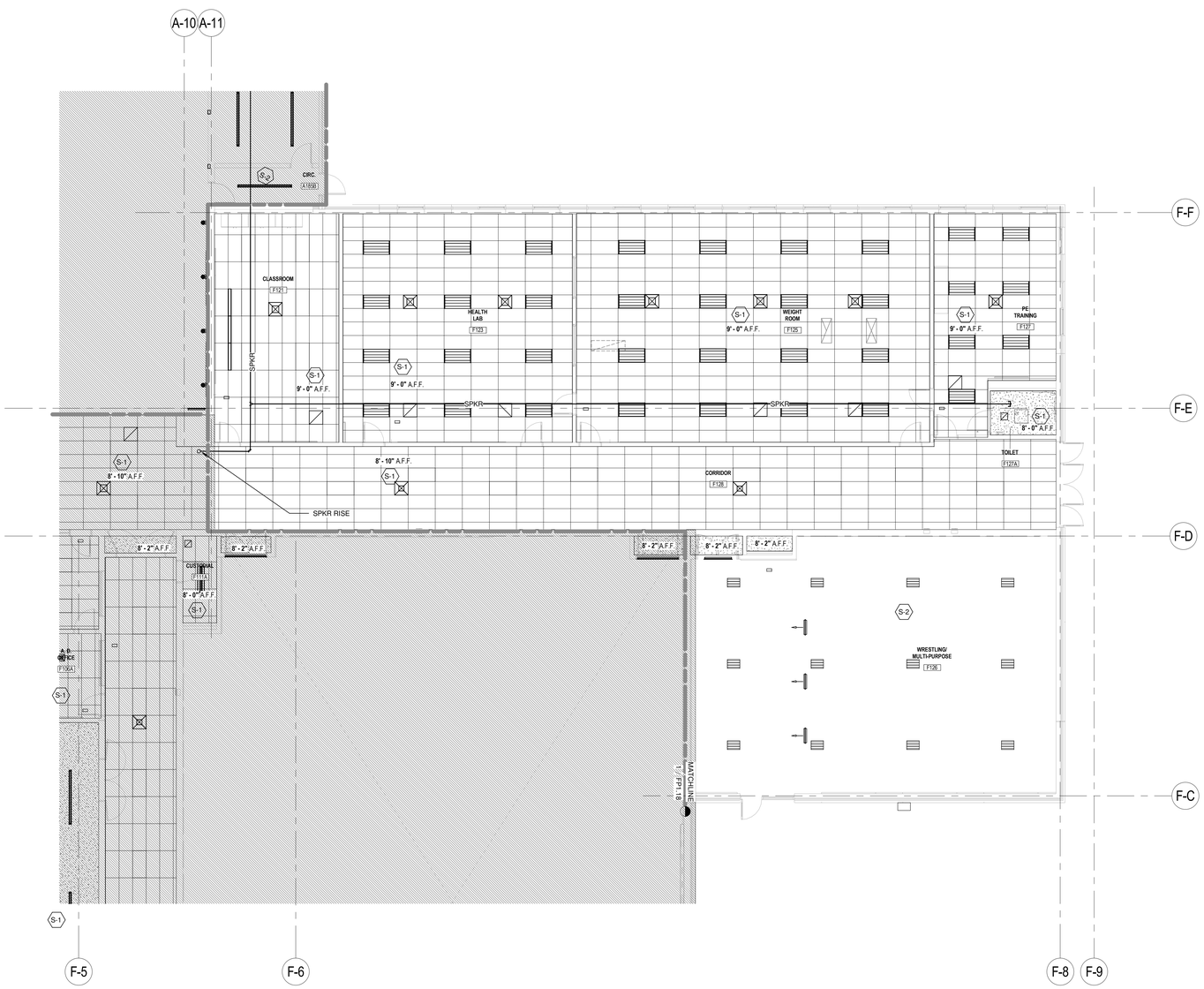

1 LEVEL 1 - FIRE PROTECTION PLAN - AREA F2
1/8" = 1'-0"

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No. 10697
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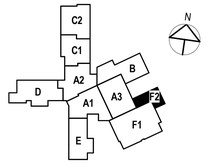

CONTENT:
FIRST FLOOR FIRE PROTECTION PLAN - AREA F2

DRAWN BY:	A. SAK
PROJECT NO:	12-067-00
DATE:	02/11/2016
REVISED:	
SCALE:	1/8" = 1'-0"

FP1.19

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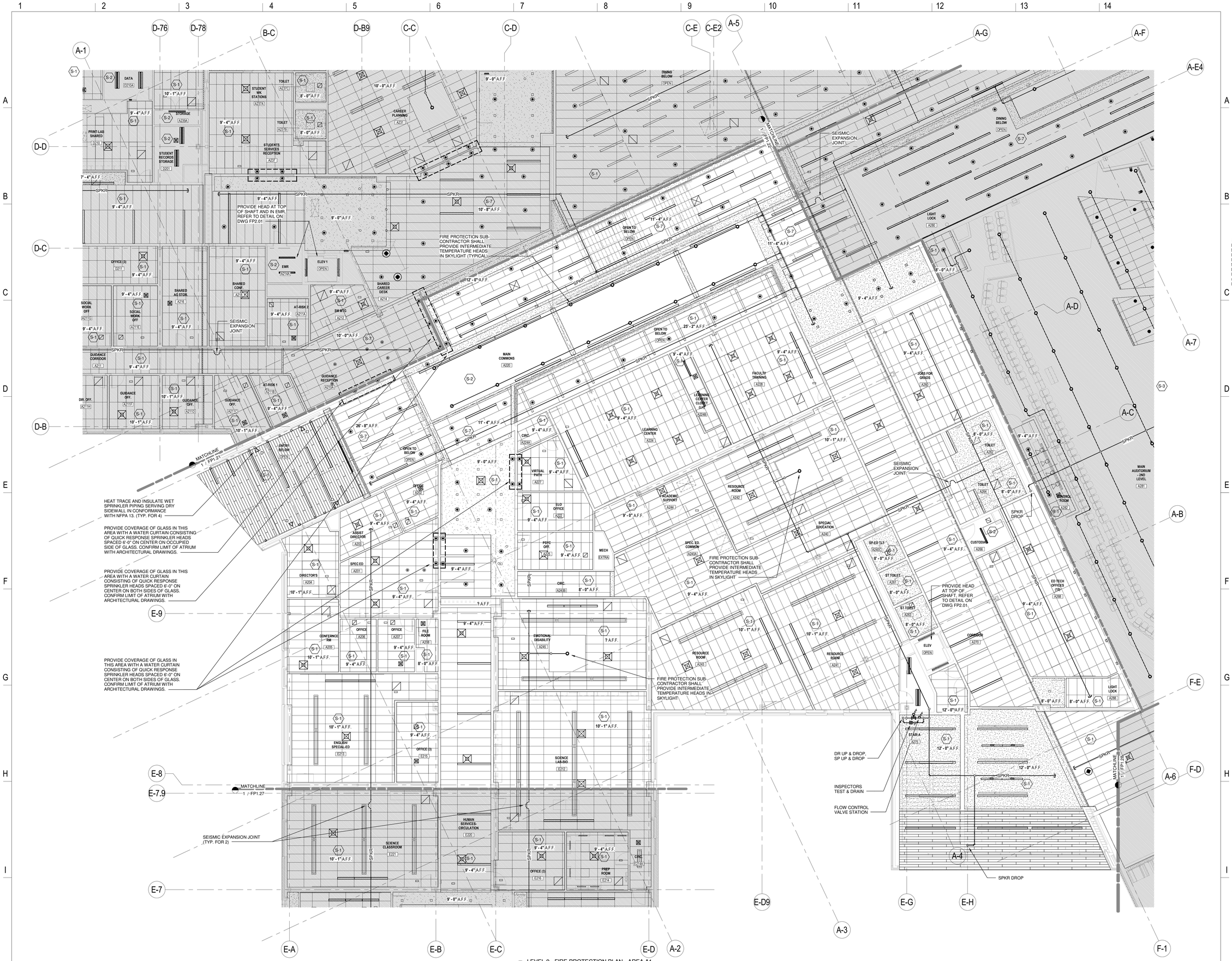

1 LEVEL 2 - FIRE PROTECTION PLAN - AREA A1
1/8" = 1'-0"

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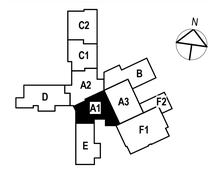

CONTENT:
SECOND FLOOR FIRE PROTECTION PLAN - AREA A1

DRAWN BY:	A. SAK
PROJECT NO:	12-067-00
DATE:	02/11/2016
REVISED:	
SCALE:	1/8" = 1'-0"

FP1.20

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1 LEVEL 2 - FIRE PROTECTION PLAN - AREA A2
1/8" = 1'-0"

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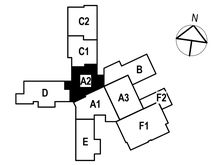

CONTENT:
SECOND FLOOR FIRE PROTECTION PLAN - AREA A2

DRAWN BY:	A. SAK
PROJECT NO:	12-067-00
DATE:	02/11/2016
REVISED:	
SCALE:	1/8" = 1'-0"

FP1.21

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1 LEVEL 2 - FIRE PROTECTION PLAN - AREA A3
1/8" = 1'-0"

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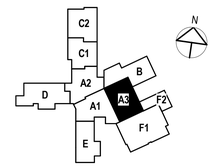

CONTENT:
SECOND FLOOR FIRE PROTECTION PLAN - AREA A3

DRAWN BY:	A. SAK
PROJECT NO:	12-067-00
DATE:	02/11/2016
REVISED:	
SCALE:	1/8" = 1'-0"

FP1.22

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1 LEVEL 2 - FIRE PROTECTION PLAN - AREA B
1/8" = 1'-0"

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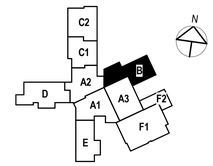

CONTENT:
SECOND FLOOR FIRE PROTECTION PLAN - AREA B

DRAWN BY:	A. SAK
PROJECT NO:	12-067-00
DATE:	02/11/2016
REVISED:	
SCALE:	1/8" = 1'-0"

FP1.23

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1 LEVEL 2 - FIRE PROTECTION PLAN - AREA C1
1/8" = 1'-0"

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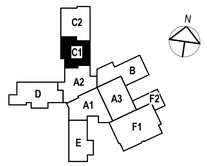

CONTENT:
SECOND FLOOR FIRE PROTECTION PLAN - AREA C1

DRAWN BY:	A. SAK
PROJECT NO:	12-067-00
DATE:	02/11/2016
REVISED:	
SCALE:	1/8" = 1'-0"

FP1.24

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1 LEVEL 2 - FIRE PROTECTION PLAN - AREA D
1/8" = 1'-0"

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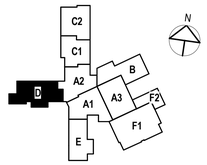

CONTENT:
SECOND FLOOR FIRE PROTECTION PLAN - AREA D

DRAWN BY:	A. SAK
PROJECT NO:	12-067-00
DATE:	02/11/2016
REVISED:	
SCALE:	1/8" = 1'-0"

FP1.26

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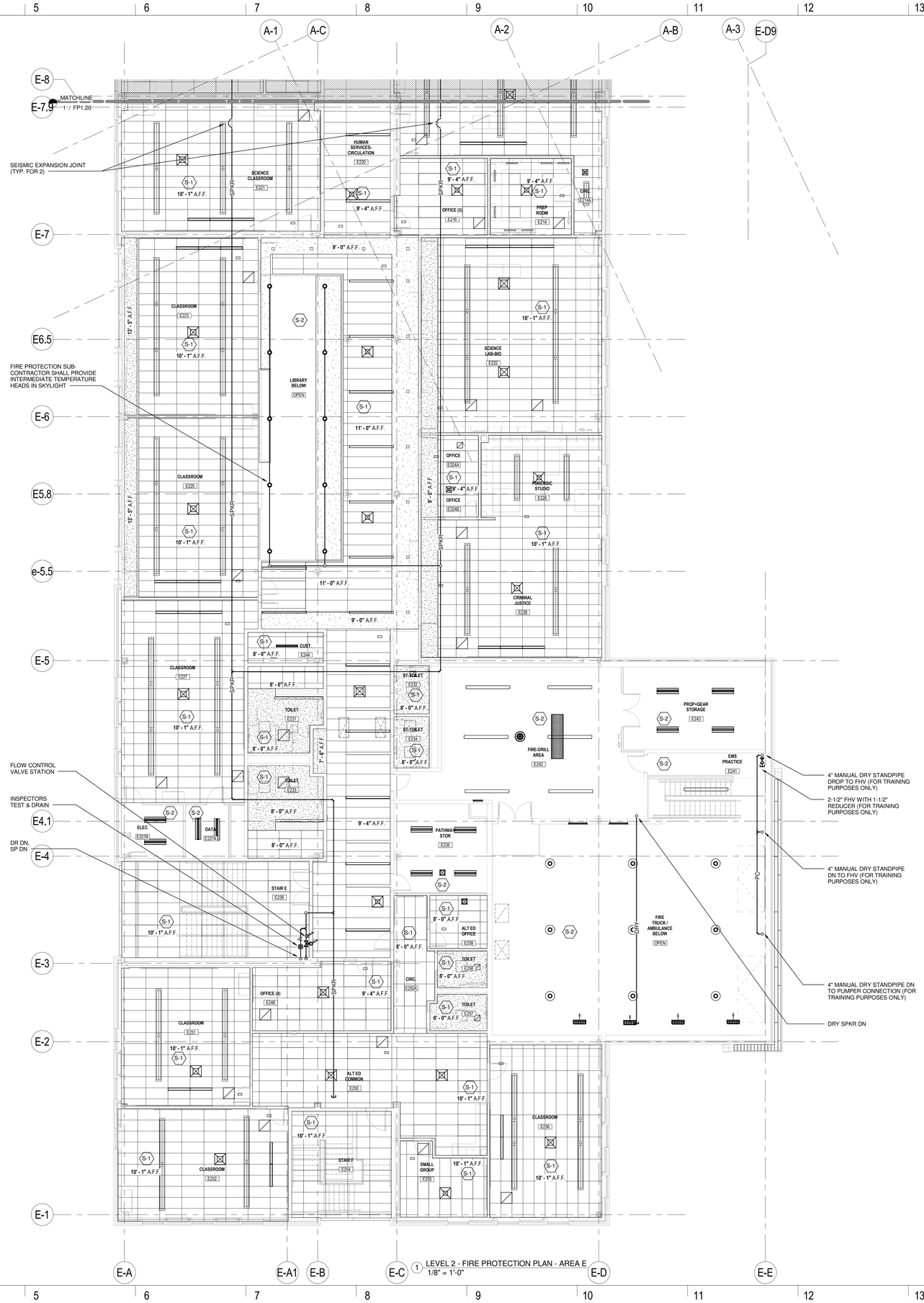

1 LEVEL 2 - FIRE PROTECTION PLAN - AREA E
1/8" = 1'-0"

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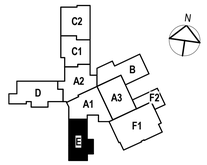

CONTENT:
SECOND FLOOR FIRE PROTECTION PLAN - AREA E

DRAWN BY:	A. SAK
PROJECT NO:	12-067-00
DATE:	02/11/2016
REVISED:	
SCALE:	1/8" = 1'-0"

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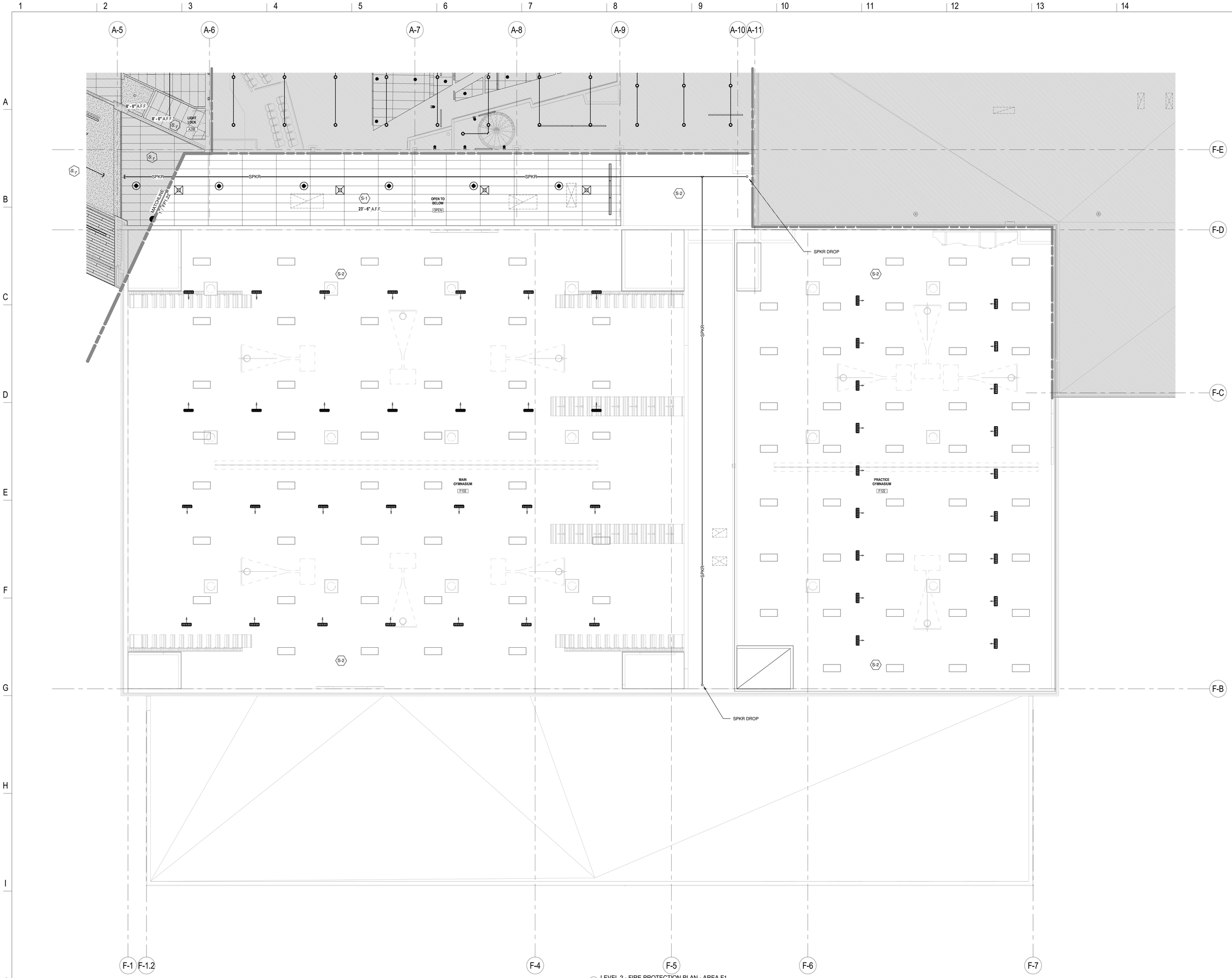

1 LEVEL 2 - FIRE PROTECTION PLAN - AREA F1
1/8" = 1'-0"

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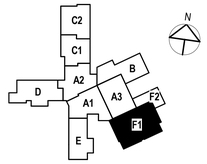

CONTENT:
SECOND FLOOR FIRE PROTECTION PLAN - AREA F1

DRAWN BY:	A. SAK
PROJECT NO:	12-067-00
DATE:	02/11/2016
REVISED:	
SCALE:	1/8" = 1'-0"

FP1.28

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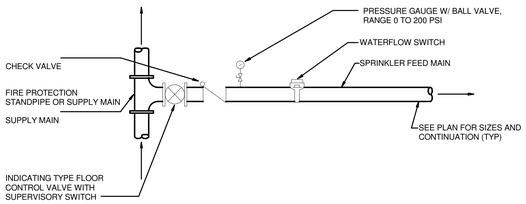
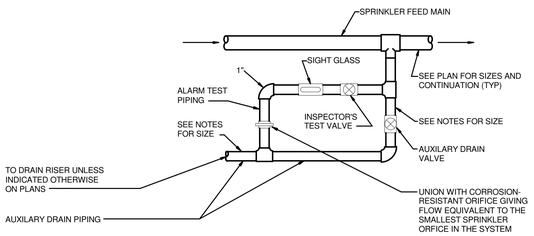


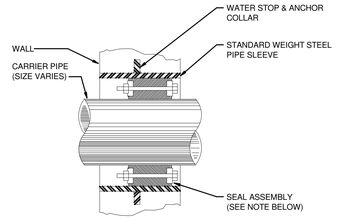
1A ZONE CONTROL VALVE ASSEMBLY DETAIL
NTS

ZONE CONTROL ASSBY. NOTES:

1. INSPECTOR'S TEST ASSEMBLIES TO BE INSTALLED IN ACCESSIBLE LOCATION AND REACHABLE FROM THE FLOOR WITHOUT THE USE OF A LADDER.
2. WHEN ACCESSIBLE DROPPED CEILING, SOFFIT, OR OTHER STRUCTURE IS PROVIDED UNDER SEPARATE CONTRACT FOR CONCEALED INSTALLATION OF THE ZONE CONTROL ASSEMBLY, VERIFY CONDITIONS FROM ACHITECTURAL DOCUMENTATION, AND COORDINATE AS REQUIRED.
3. ZONE CONTROL ASSEMBLIES IN CONCEALED LOCATIONS TO BE PROVIDED WITH IDENTIFICATION ELEMENTS (TAGS, ENGRAVED PLATE, ETC.) VISIBLE FROM FINISHED, NORMALLY OCCUPIED AREA.
4. WHEN SPRINKLER FEED MAIN IS 2" SIZE OR LESS, THE AUXILIARY DRAIN PIPING AND FITTINGS SHALL BE 1" IN SIZE. IF THE FEED MAIN IS 2 1/2" IN SIZE OR GREATER, THE AUXILIARY DRAIN PIPING AND FITTINGS SHALL BE 2" IN SIZE.



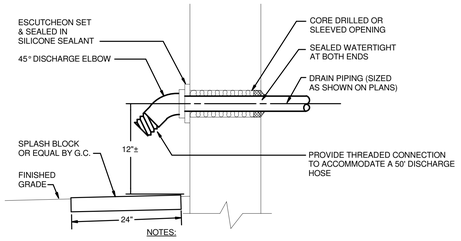
1B INSPECTORS TEST AND DRAIN ASSEMBLY DETAIL
NTS



NOTES:

SEAL ASSEMBLY SHALL BE MODULAR MECHANICAL TYPE CONSISTING OF INTERLOCKING RUBBER LINKS SHAPED TO CONTINUOUSLY FILL IN THE ANNULAR SPACE BETWEEN PIPE AND WALL OPENING. PRESSURE PLATES SHALL BE DELRIN PLASTIC, BOLTS & NUTS SHALL BE 18.8 STAINLESS STEEL, SEALING ELEMENTS SHALL BE EPDM RUBBER.

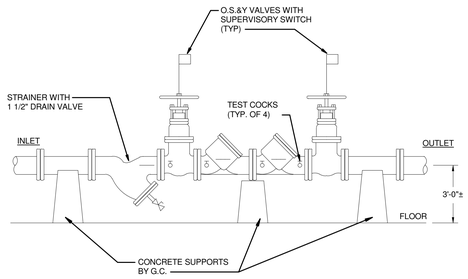
2 WATER TIGHT SEAL DETAIL
NTS



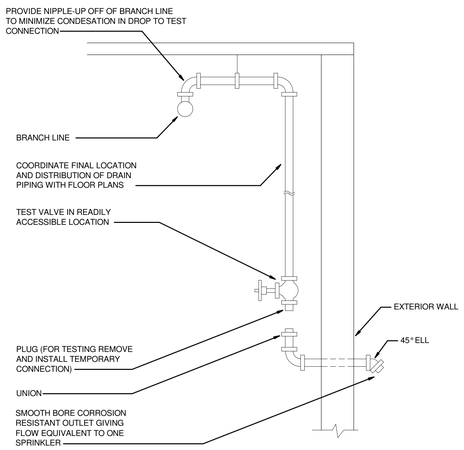
NOTES:

1. ALL EXTERIOR DRAIN PIPING SHALL BE SCHEDULE 40 GALVANIZED STEEL.
2. CONTRACTOR SHALL COORDINATE FINAL LOCATION OF ALL DRAINS WITH ARCHITECT.

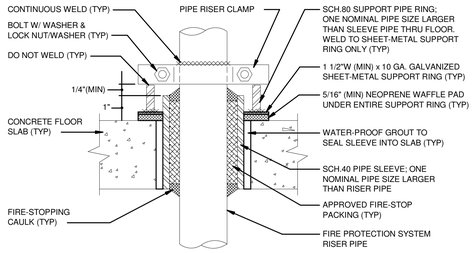
3 SPRINKLER TEST & DRAIN DISCHARGE
NTS



4 DOUBLE CHECK VALVE ASSEMBLY DETAIL
NTS



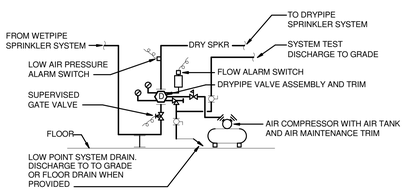
5 SYSTEM TEST CONNECTION ON DRY-PIPE SYSTEM DETAIL
NTS



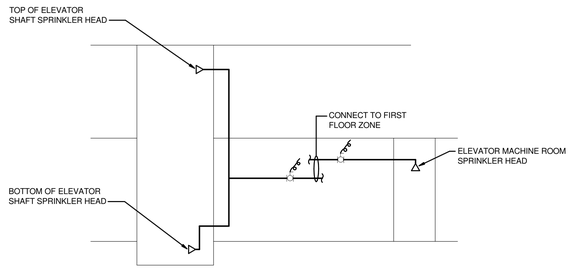
NOTES:

1. PROVIDE RISER SUPPORT AS SHOWN AT EACH RISER PIPE FLOOR PENETRATION ABOVE THE BASE (INITIAL) FLOOR PENETRATION.
2. PROVIDE FLEXIBLE, RESILIENT FIRE-STOPPING CAULK AND PACKING AT SLAB PENETRATION.

6 PIPE RISER SUPPORT/PENETRATION DETAIL
NTS



7 DRY-PIPE ALARM CHECK DETAIL
NTS



8 ELEVATOR SPRINKLER RISER DIAGRAM
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Sanford School Department and State of Maine Department of Education

SANFORD HIGH SCHOOL and TECHNICAL CENTER

SANFORD, ME 04073

NO.	DESCRIPTION	DATE

CONTENT:
FIRE PROTECTION DETAILS

DRAWN BY:	A. SAK
PROJECT NO:	12-067-00
DATE:	02/11/2016
REVISED:	
SCALE:	AS NOTED

FP2.01

Project Phase
BID DOCUMENTS

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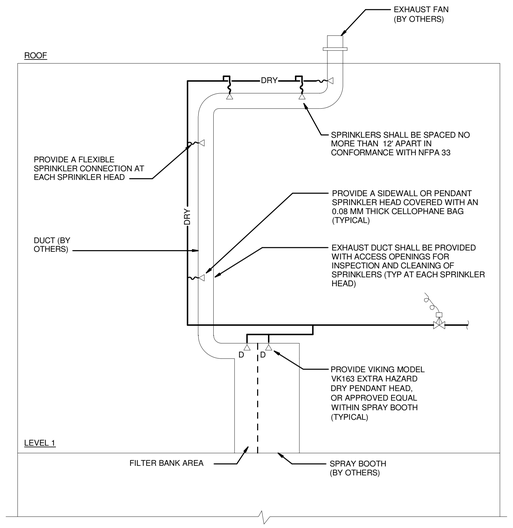


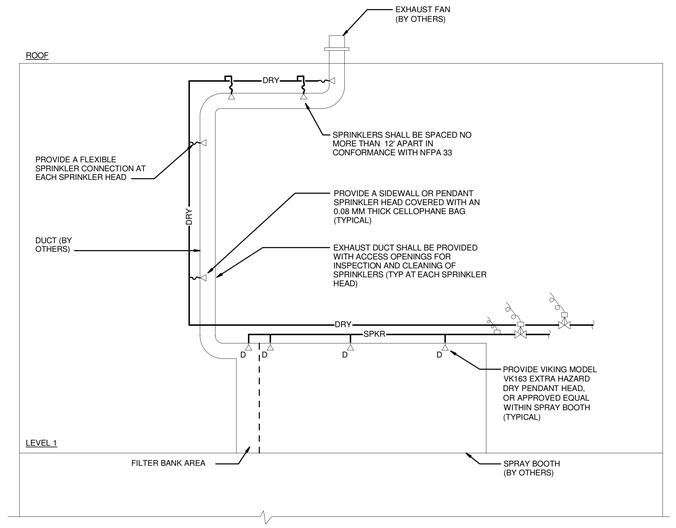
NOTE A:
SPRINKLERS SHALL BE ORDINARY TEMPERATURE RATED AND SHALL PROVIDE A MINIMUM FLOW OF 30 GPM PER HEAD AT A MINIMUM OF 15 PSI PRESSURE.

NOTE B:
SPRINKLER SYSTEM SHALL BE INSTALLED IN CONFORMANCE WITH NFPA 33, "SPRAY APPLICATION USING FLAMMABLE OR COMBUSTIBLE MATERIAL."

NOTE C:
FIRE PROTECTION SUB-CONTRACTOR SHALL FIELD COORDINATE FINAL LOCATION AND QUANTITY OF ALL SPRINKLER HEADS AND PIPING WITH SPRAY BOOTH MANUFACTURER INSTALLATION REQUIREMENTS AND FINAL LOCATION OF EXHAUST DUCT.

NOTE D:
THE AUTOMATIC SPRINKLER SYSTEM SHALL BE DESIGNED AS EXTRA HAZARD GROUP II AS DEFINED IN NFPA 13, "STANDARD FOR THE INSTALLATION OF SPRINKLER SYSTEMS."

1 SPRINKLER PROTECTION AT BUILDING TRADES SPRAY BOOTH AND EXHAUST DUCT
NTS



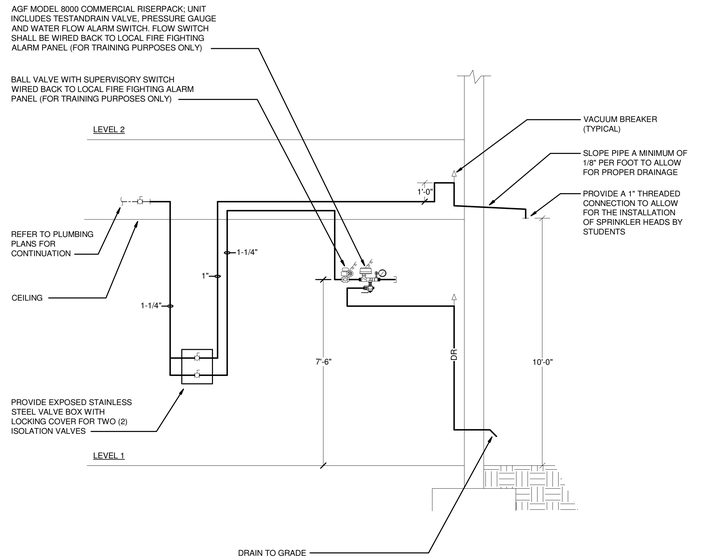
NOTE A:
SPRINKLERS SHALL BE HIGH TEMPERATURE RATED (256 DEG. F MINIMUM) AND SHALL PROVIDE A MINIMUM FLOW OF 30 GPM PER HEAD AT A MINIMUM OF 15 PSI PRESSURE.

NOTE B:
SPRINKLER SYSTEM SHALL BE INSTALLED IN CONFORMANCE WITH NFPA 33, "SPRAY APPLICATION USING FLAMMABLE OR COMBUSTIBLE MATERIAL."

NOTE C:
FIRE PROTECTION SUB-CONTRACTOR SHALL FIELD COORDINATE FINAL LOCATION AND QUANTITY OF ALL SPRINKLER HEADS AND PIPING WITH SPRAY BOOTH MANUFACTURER INSTALLATION REQUIREMENTS AND FINAL LOCATION OF EXHAUST DUCT.

NOTE D:
THE AUTOMATIC SPRINKLER SYSTEM SHALL BE DESIGNED AS EXTRA HAZARD GROUP II AS DEFINED IN NFPA 13, "STANDARD FOR THE INSTALLATION OF SPRINKLER SYSTEMS."

2 SPRINKLER PROTECTION AT AUTOMOTIVE SPRAY BOOTH AND EXHAUST DUCT
NTS



NOTE A:
ALL EXTERIOR PIPING SHALL BE GALVANIZED STEEL.

NOTE B:
ALL INTERIOR PIPING SHALL BE COPPER.

3 FIRE SCIENCE WATER SUPPLY DETAIL
NTS

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CONTENT:
FIRE PROTECTION DETAILS

DRAWN BY:	A. SAK
PROJECT NO:	12-067-00
DATE:	02/11/2016
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SCALE:	

FP2.02

Project Phase
BID DOCUMENTS

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LIGHTING LEGEND

Symbol	Description
A (N/L)	LIGHT FIXTURE,- RECESSED, WALL MOUNT, OR SURFACE MOUNT CONNECTED TO NORMAL POWER. "A" INDICATES FIXTURE TYPE, REFER TO LIGHTING FIXTURE SCHEDULE FOR ADDITIONAL INFORMATION
A (E)	(N/L) = NIGHT LIGHT (E) = FIXTURE CONNECTED TO EMERGENCY POWER (N/E) = FIXTURE CONNECTED TO NORMAL & EMEGENCY POWER
A	
A A A A	CEILING TRACK LIGHTS, "A" INDICATES FIXTURE TYPE, REFER TO LIGHTING FIXTURE SCHEDULE
	WALL MOUNTED EMERGENCY BATTERY FIXTURE
	WALL MOUNTED EMERGENCY BATTERY PACK
	REMOTE EMERGENCY FIXTURE HEAD(S)
	WALL MOUNTED EXIT LIGHT, FILLED AREA INDICATES FACE LOCATION. PROVIDE WITH ARROW DIRECTION INDICATING CHEVRONS AS SHOWN ON PLANS. REFER TO TYPICAL DEVICE LOCATIONS, UON
	CEILING MOUNTED EXIT LIGHT, FILLED AREA INDICATES FACE LOCATION. PROVIDE WITH ARROW DIRECTION INDICATING CHEVRONS AS SHOWN ON PLANS. REFER TO TYPICAL DEVICE LOCATIONS, UON
DT S	WALL OR CEILING MOUNTED, INFRARED/ULTRASONIC DUAL TECHNOLOGY OCCUPANCY SENSOR. SYSTEM CONNECTED UNLESS OTHERWISE NOTED. S = STAND-ALONE
IR S	WALL OR CEILING MOUNTED, INFRARED OCCUPANCY SENSOR. SYSTEM CONNECTED UNLESS OTHERWISE NOTED. S = STAND-ALONE
US S	WALL OR CEILING MOUNTED, ULTRASONIC OCCUPANCY SENSOR. SYSTEM CONNECTED UNLESS OTHERWISE NOTED. S = STAND-ALONE
DT S	CEILING MOUNTED, 360 °, INFRARED/ULTRASONIC DUAL TECHNOLOGY OCCUPANCY SENSOR. SYSTEM CONNECTED UNLESS OTHERWISE NOTED. S = STAND-ALONE
US S	CEILING MOUNTED, 360°, ULTRASONIC OCCUPANCY SENSOR. SYSTEM CONNECTED UNLESS OTHERWISE NOTED. S = STAND-ALONE
IR HB	CEILING MOUNTED, 360°, INFRARED OCCUPANCY SENSOR. SYSTEM CONNECTED UNLESS OTHERWISE NOTED. S = STAND-ALONE HB = HIGH BAY
B	REMOTE BALLAST OR DRIVER
E	EMERGENCY LIGHTING TRANSFER DEVICE WITH TEST SWITCH, UL924 LISTED
LCP	NORMAL LIGHTING CONTROL PANEL (REFER TO LIGHTING CONTROL WIRING DIAGRAMS & DETAILS)
C#	LIGHTING CONTROL STATION, # DENOTES STATION NUMBER
PCD	DAYLIGHTNG CONTROL PHOTOCELL SENSOR. MOUNT PER MANUFACTURERS SPECIFICATIONS (REFER TO LIGHTING CONTROL WIRING DIAGRAM) WEATHER PROOF
GLPAC-#	MULTI-CHANNEL LIGHTING CONTROL UNIT, SYSTEM CONNECTED UNLESS OTHERWISE NOTED. # INDICATES QUANTITY OF RELAYS. SEE SPECIFICATIONS. LOCATE ABOVE LIGHTING CONTROL STATION IN AN ACCESSIBLE CEILING (TYPICAL). (REFER TO LIGHTING CONTROL WIRING DIAGRAMS & DETAILS)
GLPP-#	MULTI-CHANNEL LIGHTING CONTROL UNIT, SYSTEM CONNECTED UNLESS OTHERWISE NOTED. # INDICATES QUANTITY OF RELAYS. SEE SPECIFICATIONS. LOCATE ABOVE LIGHTING CONTROL STATION IN AN ACCESSIBLE CEILING (TYPICAL). (REFER TO LIGHTING CONTROL WIRING DIAGRAMS & DETAILS)
EXP Z10	SINGLE CHANNEL LIGHTING CONTROL EXPANSION MODULE, SYSTEM CONNECTED UNLESS OTHERWISE NOTED. LOCATE ABOVE LIGHTING CONTROL STATION IN ACCESSIBLE CEILING (TYPICAL). (REFER TO LIGHTING CONTROL WIRING DIAGRAMS & DETAILS) Z10 = (0-10V) DIMMING MODULE ELV = ELECTRONIC LOW VOLTAGE DIMMING MODULE

SWITCHING & WIRING LEGEND

Symbol	Description
$	SINGLE POLE SWITCH, MH = 44"AFF, UON 3 = THREE-WAY 4 = FOUR-WAY PL = PILOT LIGHT D = DIMMER VS = VARIABLE SPEED CONTROLLER K = KEY OPERATED O = OCCUPANCY SENSOR OD = DUAL RELAY OCCUPANCY SENSOR T = DIGITAL TIMER LV = LOW VOLTAGE
$$	DOUBLE SWITCHING, ONE SWITCH SHALL CONTROL INBOARD LAMP, OTHER SWITCH SHALL CONTROL OUTBOARD LAMP(S) OF CONTROLLED LIGHTING CIRCUIT
{ # }	LIGHTING CONTROL PANEL CIRCUIT NUMBER
{ E# }	EMERGENCY LIGHTING CONTROL PANEL CIRCUIT NUMBER
LP1(#)	HOMERUN TO DESIGNATED PANELBOARD, (#=QUANTITY OF HOMERUNS IF MULTIPLE) (2#12&1#12G-3/4"C., UON)
	ELECTRICAL WIRING CIRCUIT (IN WALLS AND CEILINGS)
	ELECTRICAL WIRING CIRCUIT (BELOW FLOOR OR SLAB)
	SWITCH OR CONTROL CIRCUIT
	EMERGENCY LIGHTING AC CIRCUIT
	DC CIRCUIT
	CONNECTION AT EQUIPMENT

DEMOLITION LEGEND

Symbol	Description
x	EXISTING EQUIPMENT OR DEVICE TO BE REMOVED
x	EXISTING EQUIPMENT OR DEVICE TO REMAIN XRL = EXISTING RELOCATED XRU = EXISTING BOX & CONDUIT REUSED XTR = EXISTING TO REMAIN XR = EXISTING TO BE REMOVED

CCTV LEGEND

Symbol	Description
CCTV	HEAD END EQUIPMENT LOCATION (RECORDER, MULTIPLEXER, MONITOR, ETC.)
X	RECESSED CEILING MOUNTED CAMERA AND ENCLOSURE X = CAMERA TYPE - REFER TO SPECIFICATIONS
X	WALL MOUNTED CAMERA AND ENCLOSURE X = CAMERA TYPE - REFER TO SPECIFICATIONS
	WALL MOUNTED INTERIOR CAMERA

POWER LEGEND

Symbol	Description
	NEW SURFACE MOUNTED PANELBOARD
	NEW RECESSED MOUNTED PANELBOARD
	EXISTING SURFACE MOUNTED PANELBOARD
	EXISTING RECESSED MOUNTED PANELBOARD
T	TRANSFORMER
	GROUNDED DUPLEX RECEPTACLE, MH=18"AFF, UON
	GROUNDED QUAD RECEPTACLE, MH=18"AFF, UON
	GFCI DUPLEX RECEPTACLE, MH=18"AFF, UON
	GFCI QUAD RECEPTACLE, MH=18"AFF, UON
	ISOLATED GROUND DUPLEX RECEPTACLE, MH=18"AFF, UON
	ISOLATED GROUND QUAD RECEPTACLE, MH=18"AFF, UON
	GROUNDED SINGLE RECEPTACLE, MH=18"AFF, UON
	TYPICAL RECEPTACLE SUBSCRIPTS E = EMERGENCY C = COUNTER HEIGHT F = SURFACE FLOOR MOUNTED (REFER TO DETAIL) CLG = CEILING MOUNTED T = TASKLIGHT CR = CORROSION RESISTANT WP = WEATHER PROOF TR = TAMPER RESISTANT IWB = INTERACTIVE WHITE BOARD A/V = AUDIO VISUAL
A	SPECIAL PURPOSE RECEPTACLE, LETTER INDICATES TYPE, REFER TO SPECIAL PURPOSE RECEPTACLE SCHEDULE
A	RECESSED FLOOR BOX WITH FLUSH COVER PLATE, ROUTE CONDUITS IN FLOOR SLAB, SUBSCRIPT DENOTES FLOOR BOX TYPE, REFER TO FLOOR BOX SCHEDULE
B	POKE THRU FLOOR BOX WITH FLUSH COVER PLATE, ROUTE CONDUITS IN ACCESSIBLE CEILING BELOW, SUBSCRIPT DENOTES FLOOR BOX TYPE, REFER TO FLOOR BOX SCHEDULE
P	TWO SECTION POWER POLE
X	MOTOR LOCATION, X=HORSEPOWER *
	SINGLE PHASE MANUAL MOTOR STARTER W/HAND-AUTO SELECTOR SWITCH
	MAGNETIC STARTER (WITH HOA, UON)
	COMBINATION MAGNETIC STARTER, (WITH HOA, UON)
	DISCONNECT SWITCH
	FUSED DISCONNECT SWITCH
J	JUNCTION BOX
JP	PULL BOX
	SINGLE SECTION, SURFACE PLUG MOLD. RECEPTACLES SPACED 18" APART, U.O.N.
	TWO SECTION, SURFACE RACEWAY. ■ INDICATES NORMAL DUPLEX RECEPTACLE LOCATION IN RACEWAY, UON IG = INDICATES ISOLATED GROUND RECEPTACLE LOCATION
	4" SQUARE RECESSED OUTLET BOX MOUNTED BEHIND SURFACE RACEWAY WITH CABLE AND CONDUIT FOR POWER, AS INDICATED ON DRAWINGS
D	RETRACTABLE EXTENSION CORD WITH RECEPTACLE
CP	CONTROL PANEL OR PACKAGE FURNISHED WITH EQUIPMENT
CS	CONTROL STATION FURNISHED WITH EQUIPMENT, WIRED BY ELECTRICAL CONTRACTOR. MH=48" UON. PROVIDE OUTLET BOX AS REQUIRED BY MANUFACTURER. PROVIDE MANUFACTURERS RECOMMENDED CABLE IN 1"C TO CONTROL PACKAGE
OAP	OIL SENSING ALARM RELAY PANEL (ELEVATOR SUMP) *
PLR	PUMP LOCKOUT RELAY (ELEVATOR SUMP) *

PS#	POWER SUPPLY, # INDICATES TYPE
	1 = CAMERA
	2 = DOOR STRIKE
	3 = DOOR RELEASE BAR **
	4 = DOOR EGRESS ALARM **

WC	ELECTRIC WATER COOLER - PROVIDE GFCI RECEPTACLE MOUNTED AT 24" AFF BEHIND WATER COOLER FOR POWER. *
HT	HEAT TRACE POWER DROP - PROVIDE CONNECTION AND TESTING OF HEAT TRACE CABLES (BY OTHERS) TO POWER SOURCE. COORDINATE REQUIREMENTS WITH PLUMBING CONTRACTOR
HD	ELECTRIC HAND OR HAIR DRYER, COORDINATE MH WITH ARCHITECT
T1	ELECTRONIC FLUSH-VALVE POWER SUPPLY FURNISHED BY PC, WIRED BY EC (COORDINATE NUMBER OF JUNCTION BOXES REQUIRED WITH PC)
MOD	120V MOTOR OPERATED DAMPER,
XX XX	MECHANICAL OR PLUMBING EQUIPMENT THAT REQUIRE POWER
ATS	AUTOMATIC TRANSFER SWITCH
SV	12x12x4 JUNCTION BOX
CSP	CEILING SERVICE PANEL
ETP	ELECTRONIC TRAP PRIMER
ELC	ELEVATOR CONTROLLER
INV	INVERTER
MTS	MANUAL TRANSFER SWITCH
BAS	BUILDING AUTOMATION SYSTEM
UM	UTILITY METER
CB	ENCLOSED CIRCUIT BREAKER
UPS	UNINTERRUPTIBLE POWER SUPPLY
XX LCD	LCD DISPLAY LOCATION - XX INDICATES HEIGHT AFF REFER TO WALL BOX SCHEDULE FOR MORE INFORMATION
PL	PILOT LIGHT
J BD	EQUIPMENT BUS DROP CONNECTION
FACP	SEMI-RECESSED FIRE ALARM CONTROL PANEL T=TRAINING DEVICE
FAS	SEMI-RECESSED FIRE ALARM SUBPANEL
SMCP	SMOKE CONTROL PANEL
AFD	ACCORDION FIRE DOOR
B X	BUS DROP CORD RECEPTACLE - X INDICATES TYPE - REFER TO SCHEDULE FOR MORE INFORMATION

CONTROLS LEGEND

Symbol	Description
GS	GAS SHUTOFF *
SV	SOLENOID VALVE, PROVIDED BY MC - WIRED TO GAS SHUTOFF BY EC
VFD	VARIABLE FREQUENCY DRIVE (MOTOR STARTER) *
ATC	AUTOMATIC TEMPERATURE CONTROL PANEL *
KS	KEY OPERATED SWITCH
	REMOTE PUSH BUTTON
GAP	GENERATOR REMOTE ANNUNCIATOR PANEL
EPO	EMERGENCY POWER OFF PUSH BUTTON, MH=44"AFF, UON
BSS	BOILER SHUTDOWN SWITCH, REFER TO WIRING DIAGRAM
FTP	FUEL TANK MONITOR PANEL *
PB	MOTORIZED DOOR CONTROL PUSH BUTTON 44"AFF. PROVIDE 4" DOUBLE GANG OUTLET BOX W/ 3/4"C TO DOOR CONTROLLER, COORDINATE CABLING REQUIREMENTS WITH MANUFACTURER
R	RELAY WITH 277V OR 120V COIL AND CONTACTS RATED AS REQUIRED
C	MAGNETIC CONTACTOR WITH CONTACTS RATED AS REQUIRED
DB	DOOR BELL
BTC	BOILER THERMAL CUT-OUT *
T	LINE VOLTAGE THERMOSTAT *
A	AQUASTAT *
J1	JUNCTION BOX WITH BLANK COVER FOR TRANSFORMER
D	HEARING IMPAIRED DOOR BELL ANNUNCIATOR
R	REMOTE RELEASE
L	REMOTE LOCKDOWN

ONE LINE LEGEND

Symbol	Description
	NEW WIRE OR DEVICE
	EXISTING WIRE OR DEVICE TO REMAIN
	EXISTING WIRE OR DEVICE TO BE REMOVED
	CIRCUIT BREAKER
	SHUNT-TRIP CIRCUIT BREAKER
	DRAW-OUT CIRCUIT BREAKER
	FUSED DISCONNECT SWITCH XXXAF / XXXAT = SIZE
	TRANSFORMER
M	UTILITY METER
	AUTOMATIC TRANSFER SWITCH
	GROUND
	PANELBOARD (MAIN LUG)
	PANELBOARD (MAIN CIRCUIT BREAKER)
#	IDENTIFICATION FOR WIRE SIZE & QUANTITY (SEE CABLE SCHEDULE)
	LIGHTNING ARRESTOR
	FUSE
	SWITCH
	MOTOR
	COMBINATION MAGNETIC STARTER
	MAGNETIC STARTER
	WYE CONNECTION
	DELTA CONNECTION

AUDIO VISUAL LEGEND

Symbol	Description
AVR##	AUDIO VISUAL RACK *** ## = REFER TO HIGH OUTPUT DRAWINGS FOR MORE INFORMATION
DR1	LIGHTING DIMMER RACK ***
RP1	EMERGENCY RELAY PANEL ***
PP1	THEATER PANEL ***
PP2	THEATER PANEL ***
FB##	AUDIO VISUAL FLOOR BOX *** ## = REFER TO HIGH OUTPUT DRAWINGS FOR MORE INFORMATION
LVC1	SCREEN CONTROLLER ***

(*** = PROVIDED BY OTHERS, INSTALLED AND CONNECTED BY ELECTRICAL CONTRACTOR)

INTERCOM/MASTER CLOCK SYSTEM LEGEND

Symbol	Description
ICP	INTERCOM CONTROL PANEL
MCP	MASTER CLOCK CONTROL PANEL
LIN	LOCAL INTERCOM SYSTEM
INT	2-WAY W.P. EXTERIOR INTERCOM STATION MH = +60"AFF, UON M = MASTER STATION
PA	RECESSED CEILING MOUNTED PA SPEAKER
PA BB	SURFACE MOUNTED PA SPEAKER WITH BACK BOX
PA V	RECESSED PA SPEAKER WITH INTEGRAL VOLUME CONTROL
PA	RECESSED WALL MOUNTED PA SPEAKER T = TALK BACK SPEAKER WG = WIRE GUARD H = HORN TYPE SPEAKER
VC	VOLUME CONTROL KNOB, MH = 48" AFF, UON
LS	WALL MOUNTED LOUD SPEAKER
	WALL MOUNTED CLOCK WG = WIRE GUARD
PA H	WALL MOUNTED COMBINATION CLOCK/INTERCOM UNIT H = HORIZONTALLY MOUNTED V = VERTICALLY MOUNTED

MASS NOTIFICATION SYSTEM LEGEND

Symbol	Description
NAB	NOTIFICATION ALERT BEACON

ACCESS CONTROL SYSTEM LEGEND

Symbol	Description
ACP	MASTER ACCESS CONTROL PANEL
DAP	DOOR ACCESS SUB PANEL
MG	MAGNETIC MONITORING CONTACT
DRB	DOOR RELEASE BAR **
DE	DELAYED EGRESS CRASH BAR **
EPT	ELECTRIC POWER TRANSFER **
CR	CARD READER
DS	ELECTRIC DOOR STRIKE **
REX	REQUEST TO EXIT INFRARED SENSOR
EL	ELECTRIC LOCK
EH	ELECTRIC HINGE

SITE LEGEND

Symbol	Description
X	POLE MOUNTED FIXTURE, "X" INDICATES FIXTURE TYPE, (REFER TO LIGHTING FIXTURE SCHEDULE) PROVIDE HEADS AS REQUIRED
X	POST TOP FIXTURE, "X" INDICATES FIXTURE TYPE REFER TO LIGHTING FIXTURE SCHEDULE
X	BOLLARD LIGHT FIXTURE
	BOLLARD
	SPLICE CONNECTION, REFER TO WIRING DIAGRAM
B	BLUE LIGHT PHONE LOCATION
	UTILITY POLE

ELEVATOR LOBBY COMMUNICATIONS SYSTEM

Symbol	Description
ELM	ELEVATOR LOBBY COMMUNICATIONS SYSTEM - MASTER BOX
ELA	ELEVATOR LOBBY COMMUNICATIONS SYSTEM - CALL BOX

ABBREVIATIONS

AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AHU	AIR HANDLING UNIT *
C	COUNTER HEIGHT
CLG	CEILING MOUNTED
CUH	CABINET UNIT HEATER *
DN	DOWN
DWG	DRAWING
EC	ELECTRICAL CONTRACTOR
EF	EXHAUST FAN *
EHH	ELECTRICAL HANDHOLE
EMH	ELECTRICAL MANHOLE
FB	FAN BOX *
FIBO	FURNISHED AND INSTALLED BY OWNER/OTHERS
HOA	HAND-OFF-AUTO SELECTOR SWITCH
HP	HORSEPOWER
LOR	LOCATED ON ROOF
MC	MECHANICAL CONTRACTOR
MCB	MAIN CIRCUIT BREAKER
MD	MOTORIZED DOOR **
MH	MOUNTING HEIGHT
NTS	NOT TO SCALE
OD	OVERHEAD DOOR **
OFCI	OWNER FURNISHED CONTRACTOR INSTALLED
PC	PLUMBING CONTRACTOR
PUH	PROPELLER UNIT HEATER *
RF	RETURN FAN *
RTU	ROOF TOP UNIT *
SF	SUPPLY FAN *
SPCP	SEWAGE PUMP CONTROL PANEL
S/S	START/STOP PUSH BUTTONS
S. STL	STAINLESS STEEL
THH	TELECOMMUNICATIONS HANDHOLE
TMH	TELECOMMUNICATIONS MANHOLE
TYP	TYPICAL
UON	UNLESS OTHERWISE NOTED
VP	VANDAL PROOF
WPCP	WELL PUMP CONTROL PANEL
WG	WIRE GUARD
WP	WEATHER PROOF
WUH	WALL MOUNTED UNIT HEATER *
*	EQUIPMENT PROVIDED BY MECHANICAL TRADE, WIRED BY ELECTRICAL TRADE
**	EQUIPMENT PROVIDED BY DOOR HARDWARE TRADE, WIRED BY ELECTRICAL TRADE

CIRCUIT BREAKER TYPES

AF	AFCI CIRCUIT BREAKER
G	GFCI CIRCUIT BREAKER
H	HACR CIRCUIT BREAKER
L	LOCKED-ON CIRCUIT BREAKER
S	SHUNT TRIP CIRCUIT BREAKER

ELECTRICAL TRADE NOTES

1. ALL ELECTRICAL WORK SHALL BE PERFORMED IN ACCORDANCE WITH ALL APPLICABLE NATIONAL, STATE AND LOCAL CODES AND THE CURRENT NATIONAL ELECTRICAL CODE (NEC) BY ELECTRICIANS LICENSED BY THE STATE IN WHICH THE WORK IS PERFORMED.
2. THE ELECTRICAL CONTRACTOR SHALL VERIFY THE EXACT LOCATION AND ELECTRICAL REQUIREMENTS OF ALL EQUIPMENT PRIOR TO INSTALLING ANY CONDUIT AND/OR CABLE. IF ELECTRICAL REQUIREMENTS DIFFER FROM THOSE INDICATED, OR IF ADDITIONAL EQUIPMENT IS REQUIRED BY CODE, INFORM THE ENGINEER.
3. WIRING FOR ALL SINGLE PHASE CIRCUITS, 20A OR SMALLER, SHALL BE A MINIMUM OF 2#12&1#12G-3/4"C., FOR CIRCUIT LENGTHS UNDER 100FT AND 2#10&1#10G-3/4"C., FOR CIRCUIT LENGTHS 100FT AND OVER , UNLESS OTHERWISE NOTED. CIRCUITS FOR ISOLATED GROUND RECEPTACLES SHALL INCLUDE ADDITIONAL ISOLATED GROUND CONDUCTOR. CIRCUITS FOR DOUBLE SWITCHED LIGHT FIXTURES SHALL INCLUDE ADDITIONAL SWITCHED CONDUCTOR(S) AS REQUIRED. THE SHARING OF NEUTRAL CONDUCTORS IS NOT ALLOWED.
4. MOUNTING HEIGHTS GIVEN FOR ALL WIRING DEVICES (WALL SWITCHES, RECEPTACLES, ETC.), FIRE ALARM DEVICES, TELEPHONE EQUIPMENT, SPEAKERS AND LIGHT FIXTURES ARE TO THE CENTERLINE OF THE JUNCTION BOX USED TO MOUNT THE DEVICE, UNLESS OTHERWISE NOTED.
5. REMOVE AND DISPOSE OF EXISTING ELECTRICAL EQUIPMENT AND ASSOCIATED BOXES, CONDUIT AND WIRE WHERE INDICATED OR WHERE LOCATED ON OR WITHIN WALLS AND CEILINGS BEING DEMOLISHED OR ALTERED AS A RESULT OF THIS CONTRACT, UNLESS OTHERWISE INDICATED. IT IS NOT THE INTENT OF THESE DRAWINGS TO INDICATE ALL ELECTRICAL ITEMS TO BE REMOVED.
6. CIRCUIT WIRING INDICATED ON DRAWINGS IS SCHEMATIC IN NATURE AND SHALL NOT BE CONSIDERED TO BE POINT-TO-POINT, UNLESS OTHERWISE NOTED.
7. EXISTING ELECTRICALLY POWERED ITEMS THAT REMAIN SHALL BE RECIRCUITED, IF NECESSARY, TO ENSURE CONTINUED OPERATION.
8. COORDINATE FINAL LOCATIONS OF CEILING LIGHT FIXTURES AND OTHER EQUIPMENT WITH REFLECTED CEILING PLANS AND ALL OTHER TRADE DRAWINGS PRIOR TO INSTALLATION.
9. WHERE LONG CIRCUIT LENGTHS ARE REQUIRED, ENSURE LESS THAN 3% VOLTAGE DROP UNDER FULL LOAD. INCREASE WIRE SIZE ON CIRCUITS 100 FEET LONG AND ABOVE.
10. PROVIDE AND ENSURE FIREPROOFING OF ALL CONDUIT, CABLING AND ANY OTHER ELECTRICAL DEVICES THROUGH FIRE RATED ASSEMBLIES.
11. PROVIDE PULL STRINGS IN ALL CONDUIT SYSTEMS LEFT FOR USE BY OTHERS.
12. MOUNTING HEIGHT FOR ELECTRICAL DEVICES (RECEPTACLES, MULTICOMMUNICATIONS OUTLETS, ETC) LOCATED ON EXTERIOR WALLS ABOVE FINTUBE SHALL BE 4" FROM TOP OF FINTUBE ENCLOSURE TO CENTERLINE OF ELECTRICAL DEVICE.
13. PROVIDE EXPANSION FITTINGS IN CONDUIT RISERS FROM ALL EXTERIOR UNDERGROUND CONDUITS TO FIXED EQUIPMENT OR CONDUIT FITTINGS AND PROVIDE FLEXIBLE CONNECTIONS TO ANY EQUIPMENT SUBJECT TO SETTLEMENT OR FROST HEAVES.
14. WHERE DOUBLE SWITCHES ARE INDICATED, FIXTURES SHALL BE PROVIDED WITH MULTIPLE BALLASTS.
15. ALL BRANCH CIRCUIT HOMERUN WIRING (POWER AND LIGHTING) BACK TO PANELBOARDS (NOT IN THE SAME ROOM AS THE CIRCUIT) SHALL BE A MINIMUM OF #10 AWG CONDUCTOR.

GENERAL NOTES

THE FOLLOWING GENERAL NOTES APPLY TO ALL RIST-FROST-SHUMWAY ENGINEERING, P.C., DRAWINGS AND TRADES ASSOCIATED WITH THOSE DRAWINGS INVOLVED ON THIS PROJECT:

G-1 RIST-FROST-SHUMWAY ENGINEERING, P.C., WAIVES ANY AND ALL RESPONSIBILITY AND LIABILITY FOR PROBLEMS WHICH ARISE FROM FAILURE TO FOLLOW THESE PLANS, SPECIFICATIONS AND/OR THE DESIGN INTENT THEY CONVEY, OR FOR PROBLEMS WHICH ARISE FROM OTHERS' FAILURE TO OBTAIN AND/OR FOLLOW THE GUIDANCE OF RIST-FROST-SHUMWAY ENGINEERING, P.C., WITH RESPECT TO ANY ERRORS, OMISSIONS, INCONSISTENCIES, AMBIGUITIES OR CONFLICTS WHICH ARE DISCOVERED OR ALLEGED.

G-2 ALL WORK SHALL CONFORM TO ALL FEDERAL, STATE, AND LOCAL CODES AND STANDARDS INCLUDING, BUT NOT LIMITED TO: NFPA, IBC, UL, SMACNA, OSHA, AND NEC.

G-3 THE CONTRACTOR AND ALL SUBCONTRACTORS SHALL PROTECT THE WORK SITE, SURROUNDING AREAS AND OCCUPANTS FROM DAMAGE AND INJURY.

G-4 THE CONTRACTOR AND ALL SUBCONTRACTORS SHALL FAMILIARIZE THEMSELVES WITH THE CONTRACT DOCUMENTS. ALL DRAWINGS OF ANY PARTICULAR TRADE SHALL BE USED IN CONJUNCTION WITH DRAWINGS OF ALL OTHER TRADES TO COORDINATE ALL CONSTRUCTION. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER BEFORE PROCEEDING WITH THE AFFECTED WORK. ANY PROPOSED CHANGES, VARIATIONS OR SUBSTITUTIONS MUST BE REVIEWED AND ACCEPTED BY THE ENGINEER PRIOR TO IMPLEMENTATION.

G-5 ALL DRAWINGS ARE INTENDED TO SHOW THE GENERAL ARRANGEMENT, DESIGN INTENT AND EXTENT OF THE WORK. THEY SHALL BE CONSIDERED PARTLY DIAGRAMMATIC. THEY ARE NOT INTENDED TO BE SCALED FOR ROUGHING-IN MEASUREMENTS OR TO SERVE AS SHOP DRAWINGS.

G-6 THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL DIMENSIONS (AS-BUILT OR OTHERWISE) BEFORE COMMENCING FABRICATION, AND/OR ORDERING MATERIALS.

G-7 DETAILS SHOWN ON ANY DRAWING ARE TO BE CONSIDERED TYPICAL FOR ALL SIMILAR CONDITIONS, UNLESS OTHERWISE INDICATED.

G-8 INFORMATION ON THESE DRAWINGS PERTAINING TO AS-BUILT CONSTRUCTION AND OTHER EXISTING CONDITIONS HAVE BEEN OBTAINED FROM OTHER DOCUMENTATION OR BY FIELD INVESTIGATION. (SEE GENERAL AND SUPPLEMENTAL CONDITIONS FOR LISTING). THIS INFORMATION IS PROVIDED FOR THE CONTRACTOR'S BENEFIT IN PERFORMANCE OF THE WORK.

G-9 IN THE EVENT THE CONTRACTOR ENCOUNTERS MATERIAL REASONABLY BELIEVED TO BE HAZARDOUS WHICH HAS NOT BEEN RENDERED HARMLESS, THE CONTRACTOR SHALL IMMEDIATELY STOP WORK IN THE AREA AFFECTED AND REPORT THE CONDITION TO THE OWNER AND ARCHITECT/ENGINEER IN WRITING. THE WORK IN THE AFFECTED AREA SHALL NOT BE RESUMED UNTIL WRITTEN VERIFICATION BY THE OWNER THAT THE MATERIAL HAS BEEN REMOVED OR OTHERWISE BEEN RENDERED HARMLESS.

G-10 ALL BRANCH CIRCUIT HOMERUN WIRING (POWER AND LIGHTING) BACK TO PANELBOARDS (NOT IN THE SAME ROOM AS THE CIRCUIT) SHALL BE A MINIMUM OF #10 AWG CONDUCTOR.

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STATE OF MAINE
CHRISTOPHER M. SHUMWAY
No. 10820
LICENSED PROFESSIONAL ENGINEER

Sanford School Department and State of Maine Department of Education

SANFORD HIGH SCHOOL and TECHNICAL CENTER

SANFORD, ME 04073

NO.	DESCRIPTION	DATE

CONTENT:
ELECTRICAL SYMBOLS LEGEND AND TRADE NOTES

DRAWN BY:	C. NEWELL
PROJECT NO:	12-067-00
DATE:	02/11/2016
REVISED:	
SCALE:	NO SCALE

E0.01

Project Phase
BID DOCUMENTS

FOR ADDITIONAL INFORMATION, REFER TO PROJECT MANUAL.

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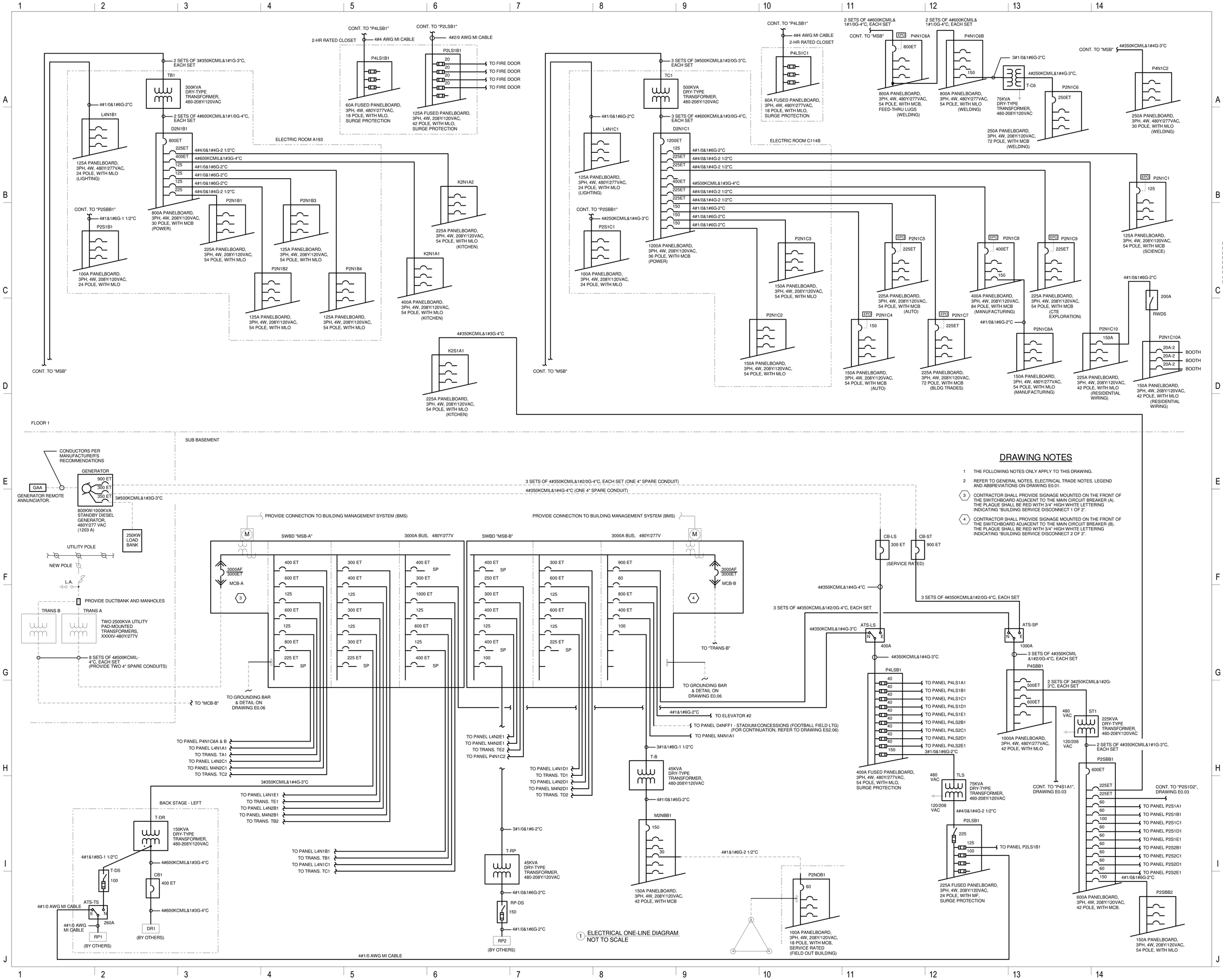

1 ELECTRICAL ONE-LINE DIAGRAM
NOT TO SCALE

DRAWING NOTES

1. THE FOLLOWING NOTES ONLY APPLY TO THIS DRAWING.
2. REFER TO GENERAL NOTES, ELECTRICAL TRADE NOTES, LEGEND AND ABBREVIATIONS ON DRAWING E0.01.
3. CONTRACTOR SHALL PROVIDE SIGNAGE MOUNTED ON THE FRONT OF THE SWITCHBOARD ADJACENT TO THE MAIN CIRCUIT BREAKER (A). THE PLAQUE SHALL BE RED WITH 3/4" HIGH WHITE LETTERING INDICATING "BUILDING SERVICE DISCONNECT 1 OF 2".
4. CONTRACTOR SHALL PROVIDE SIGNAGE MOUNTED ON THE FRONT OF THE SWITCHBOARD ADJACENT TO THE MAIN CIRCUIT BREAKER (B). THE PLAQUE SHALL BE RED WITH 3/4" HIGH WHITE LETTERING INDICATING "BUILDING SERVICE DISCONNECT 2 OF 2".

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RFS Project #: 7300.001

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SANFORD HIGH SCHOOL and TECHNICAL CENTER

SANFORD, ME 04073

NO.	DESCRIPTION	DATE

CONTENT: ELECTRICAL ONE-LINE DIAGRAM

DRAWN BY:	C. NEWELL
PROJECT NO:	12-067-00
DATE:	02/11/2016
REVISED:	
SCALE:	AS NOTED

E0.02

Project Phase: BID DOCUMENTS

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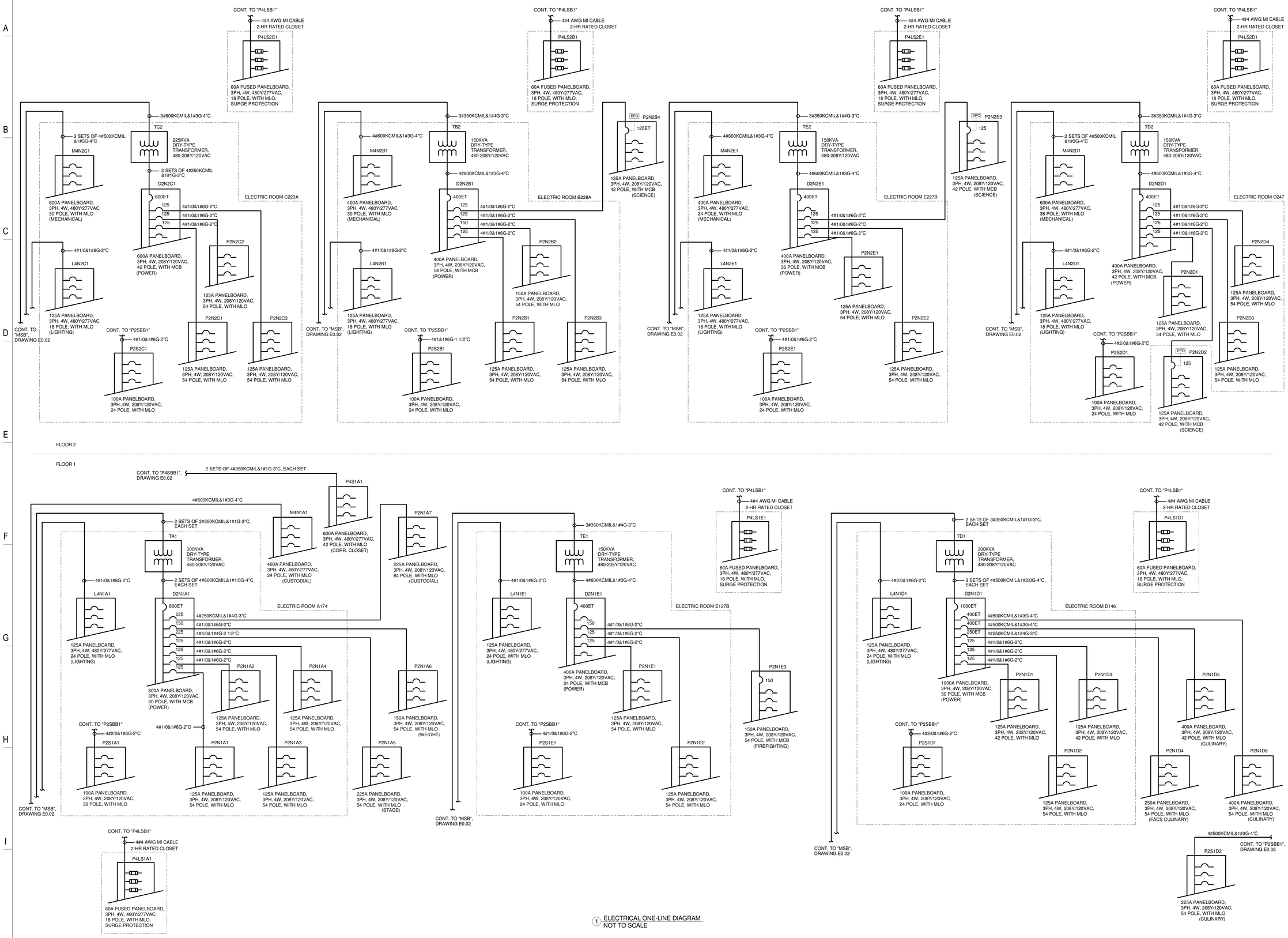
DRAWING NOTES

1 THE FOLLOWING NOTES ONLY APPLY TO THIS DRAWING.

2 REFER TO GENERAL NOTES, ELECTRICAL TRADE NOTES, LEGEND AND ABBREVIATIONS ON DRAWING E0.01.



1 ELECTRICAL ONE-LINE DIAGRAM
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Sanford School Department and State of Maine Department of Education

SANFORD HIGH SCHOOL and TECHNICAL CENTER

SANFORD, ME 04073

NO.	DESCRIPTION	DATE

CONTENT: ELECTRICAL ONE-LINE DIAGRAM

DRAWN BY:	C. NEWELL
PROJECT NO:	12-067-00
DATE:	02/11/2016
REVISED:	
SCALE:	AS NOTED

E0.03

Project Phase: BID DOCUMENTS

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ELECTRIC EQUIPMENT AND CONTROL SCHEDULE

EQUIPMENT								SUPPLY						ACCESSORIES	
ITEM NUM.	NAME	ROOM LOC.	AMPS	HP.	KW.	PHASE	SYSTEM VOLTS	PANEL OR CONTROL CENTER	CIRCUIT BREAKER	POWER WIRING FROM PANEL TO CONTROL UNIT AND FROM CONTROL UNIT TO EQUIPMENT: PHASE	GND	CONDUIT	REF. NOTES	FUSED DISCONNECT SWITCH	CONTROL DEVICES NOTES
DHU-1A	DEHUMID. UNIT #1A	ROOFTOP - B	97.2			3	480	M4N2B1	110/3	4#1/0 AWG	1#6 AWG E.G.	2"C	A	PROVIDE WP	3
DHU-1B	DEHUMID. UNIT #1B	ROOFTOP - B	97.2			3	480	M4N2B1	110/3	4#1/0 AWG	1#6 AWG E.G.	2"C	A	PROVIDE WP	3
DHU-2	DEHUMID. UNIT #2	ROOFTOP - C1	75.2			3	480	M4N2C1	90/3	4#2 AWG	1#8 AWG E.G.	1 1/2"C	A	PROVIDE WP	3
DHU-3	DEHUMID. UNIT #3	ROOFTOP - C1	142.2			3	480	M4N2C1	150/3	4#2/0 AWG	1#6 AWG E.G.	2"C	A	PROVIDE WP	3
DHU-4	DEHUMID. UNIT #4	ROOFTOP - C2	111.2			3	480	M4N2C1	125/3	4#1/0 AWG	1#6 AWG E.G.	2"C	A	PROVIDE WP	3
DHU-5	DEHUMID. UNIT #5	ROOFTOP - C2	111.2			3	480	M4N2C1	125/3	4#1/0 AWG	1#6 AWG E.G.	2"C	A	PROVIDE WP	3
DHU-6A	DEHUMID. UNIT #6A	ROOFTOP - A2	82.2			3	480	M4N2D1	100/3	4#1/0 AWG	1#6 AWG E.G.	2"C	A	PROVIDE WP	3
DHU-6B	DEHUMID. UNIT #6B	ROOFTOP - D	97.2			3	480	M4N2D1	110/3	4#1/0 AWG	1#6 AWG E.G.	2"C	A	PROVIDE WP	3
DHU-7	DEHUMID. UNIT #7	ROOFTOP - D	111.2			3	480	M4N2D1	125/3	4#1/0 AWG	1#6 AWG E.G.	2"C	A	PROVIDE WP	3
DHU-8	DEHUMID. UNIT #8	ROOFTOP - E	142.2			3	480	M4N2E1	150/3	4#2/0 AWG	1#6 AWG E.G.	2"C	A	PROVIDE WP	3
DHU-9	DEHUMID. UNIT #9	ROOFTOP - E	111.2			3	480	M4N2E1	125/3	4#1/0 AWG	1#6 AWG E.G.	2"C	A	PROVIDE WP	3
DHU-10	DEHUMID. UNIT #10	ROOFTOP - F1	97.2			3	480	M4N1A1	110/3	4#1/0 AWG	1#6 AWG E.G.	2"C	A	PROVIDE WP	3
DHU-11	DEHUMID. UNIT #11	ROOFTOP - F2	77.5			3	480	M4N1A1	100/3	4#1/0 AWG	1#6 AWG E.G.	2"C	A	PROVIDE WP	3
DHU-12	DEHUMID. UNIT #12	ROOFTOP - A1	111.2			3	480	P4S1A1	125/3	4#1/0 AWG	1#6 AWG E.G.	2"C	A	PROVIDE WP	3
AHU-1	AIR HANDLER #1	ROOFTOP - F1	128.48			3	480	P4S1A1	150/3	4#2/0 AWG	1#6 AWG E.G.	2"C	A	PROVIDE WP	3
AHU-2	AIR HANDLER #2	ROOFTOP - F1	64.47			3	480	M4N1A1	80/3	4#3 AWG	1#8 AWG E.G.	1 1/2"C	A	PROVIDE WP	3
AHU-3	AIR HANDLER #3	ROOFTOP - F1	128.48			3	480	P4S1A1	150/3	4#2/0 AWG	1#6 AWG E.G.	2"C	A	PROVIDE WP	3
AHU-4	AIR HANDLER #4	ROOFTOP - F2	75			3	480	P4S1A1	90/3	4#2 AWG	1#8 AWG E.G.	1 1/2"C	A	PROVIDE WP	3
AHU-5	AIR HANDLER #5	ROOFTOP - B	97.72			3	480	M4N2B1	110/3	4#1/0 AWG	1#6 AWG E.G.	2"C	A	PROVIDE WP	3
AHU-6	AIR HANDLER #6	ROOFTOP - A2	94.92			3	480	P4S1A1	110/3	4#1/0 AWG	1#6 AWG E.G.	2"C	A	PROVIDE WP	3
AHU-7	AIR HANDLER #7	ROOFTOP - A2	97.72			3	480	M4N2D1	110/3	4#1/0 AWG	1#6 AWG E.G.	2"C	A	PROVIDE WP	3
AHU-8	AIR HANDLER #8	ROOFTOP - D	94.92			3	480	M4N2D1	110/3	4#1/0 AWG	1#6 AWG E.G.	2"C	A	PROVIDE WP	3
AHU-9	AIR HANDLER #9	ROOFTOP - A1	106.47			3	480	M4N1A1	125/3	4#1/0 AWG	1#6 AWG E.G.	2"C	A	PROVIDE WP	3
HWP-1	HOT WATER PUMP #1	MECH ROOM B057		25		3	480	P4SBB1	60/3	4#4 AWG	1#10 AWG E.G.	1 1/4"C	-	-	2
HWP-2	HOT WATER PUMP #2	MECH ROOM B057		25		3	480	P4SBB1	60/3	4#4 AWG	1#10 AWG E.G.	1 1/4"C	-	-	2
HWP-3	HOT WATER PUMP #3	MECH ROOM B057		3/4		3	480	P4SBB1	20/3	4#12 AWG	1#12 AWG E.G.	3/4"C	-	-	2
HWP-4	HOT WATER PUMP #4	MECH ROOM B057		3/4		3	480	P4SBB1	20/3	4#12 AWG	1#12 AWG E.G.	3/4"C	-	-	2
CP-1	CIRC PUMP #1	CORRIDOR F101 - 2ND FLOOR	3/4			3	480	P4S1A1	20/3	4#10 AWG	1#10 AWG E.G.	3/4"C	-	-	2
CP-2	CIRC PUMP #2	CORRIDOR F101 - 2ND FLOOR	1/3			1	120	P2S1A1	20/1	2#10 AWG	1#10 AWG E.G.	3/4"C	-	-	1
CP-3	CIRC PUMP #3	CIRCULATION F111 - 2ND FLOOR	3/4			3	480	P4S1A1	20/3	4#10 AWG	1#10 AWG E.G.	3/4"C	-	-	2
CP-4	CIRC PUMP #4	HEALTH LAB F123	1/3			1	120	P4S1A1	20/1	2#10 AWG	1#10 AWG E.G.	3/4"C	-	-	1
CP-5	CIRC PUMP #5	ARTS & COMMUNICATIONS B220	1/3			1	120	P4S1B1	20/1	2#10 AWG	1#10 AWG E.G.	3/4"C	-	-	1
CP-6	CIRC PUMP #6	MAIN COMMONS A220	1/2			1	120	P4S1B1	20/1	2#10 AWG	1#10 AWG E.G.	3/4"C	-	-	1
CP-7	CIRC PUMP #7	MAIN COMMONS A220	1/3			1	120	P4S2C1	20/1	2#10 AWG	1#10 AWG E.G.	3/4"C	-	-	1
CP-8	CIRC PUMP #8	EARTH SCIENCE CLASSROOM D237	1/2			1	120	P4S2D1	20/1	2#10 AWG	1#10 AWG E.G.	3/4"C	-	-	1
CP-9	CIRC PUMP #9	LEARNING CENTER A224	1/3			1	120	P4S2B1	20/1	2#10 AWG	1#10 AWG E.G.	3/4"C	-	-	1
CP-D6	CIRC PUMP #D6	BUSINESS & MANAGEMENT D220	1/2			1	120	P2S2D1	20/1	2#10 AWG	1#10 AWG E.G.	3/4"C	-	-	1
B-1	BOILER #1	MECH ROOM B057	7			3	208	P2SBB2	20/3	4#10 AWG	1#10 AWG E.G.	3/4"C	-	-	2
B-2	BOILER #2	MECH ROOM B057	7			3	208	P2SBB2	20/3	4#10 AWG	1#10 AWG E.G.	3/4"C	-	-	2
B-3	BOILER #3	MECH ROOM B057	7			3	208	P2SBB2	20/3	4#10 AWG	1#10 AWG E.G.	3/4"C	-	-	2
B-4	BOILER #4	MECH ROOM B057	7			3	208	P2SBB2	20/3	4#10 AWG	1#10 AWG E.G.	3/4"C	-	-	2
B-5	BOILER #5	MECH ROOM B057	7			3	208	P2SBB2	20/3	4#10 AWG	1#10 AWG E.G.	3/4"C	-	-	2
BCU-A100	BLOWER COIL UNIT A100	RECEPTION WAITING A101A		3/4		3	480	P4SBB1	20/3	4#10 AWG	1#10 AWG E.G.	3/4"C	-	FACTORY	2
CAF-1	COMBUSTION AIR FAN #1	ROOFTOP - B		1		3	480	P4SBB1	20/3	4#10 AWG	1#10 AWG E.G.	3/4"C	-	-	2
SEF-1	ATRIUM SMOKE EXHAUST FAN #1	ROOFTOP - A2		20		3	480	P4LSB1	50/3	4#4 AWG MI CABLE	-	-	A	PROVIDE WP	3
SEF-2	ATRIUM SMOKE EXHAUST FAN #2	ROOFTOP - A2		20		3	480	P4LSB1	50/3	4#4 AWG MI CABLE	-	-	A	PROVIDE WP	3
SEF-3	ATRIUM SMOKE EXHAUST FAN #3	ROOFTOP - B		20		3	480	P4LSB1	50/3	4#4 AWG MI CABLE	-	-	A	PROVIDE WP	3
SSF-1	SMOKE EXHAUST MAKE-UP #1	ROOFTOP - A2		2		3	480	P4LSB1	20/3	4#6 AWG MI CABLE	-	-	A	PROVIDE WP	3
SSF-2	SMOKE EXHAUST MAKE-UP #2	ROOFTOP - A2		2		3	480	P4LSB1	20/3	4#6 AWG MI CABLE	-	-	A	PROVIDE WP	3
CEF-C110	FUME HOOD FAN	ROOFTOP - C1		3/4		1	120	P2N2C2	25/1	2#10 AWG	1#10 AWG E.G.	3/4"C	-	FACTORY	1
CEF-C114	FUME HOOD FAN	ROOFTOP - C1		3/4		1	120	P2N2C2	25/1	2#10 AWG	1#10 AWG E.G.	3/4"C	-	FACTORY	1
DEF-1	KITCHEN DISHWASHER EXHAUST FAN	ROOFTOP - A2		1/2		1	120	D2N2B1	20/1	2#10 AWG	1#10 AWG E.G.	3/4"C	-	FACTORY	1
DEF-2	CULIN. DISHWASHER EXHAUST FAN	ROOFTOP - D		1/2		1	120	D2N2D1	20/1	2#10 AWG	1#10 AWG E.G.	3/4"C	-	FACTORY	1
EF-D132	ROOM D132 FAN	ROOFTOP - D		1/4		1	120	D2N2D1	20/1	2#10 AWG	1#10 AWG E.G.	3/4"C	-	FACTORY	1
EF-C104C	ROOM C104 FAN	ROOFTOP - A2		1/6		1	120	D2N2B1	20/1	2#10 AWG	1#10 AWG E.G.	3/4"C	-	FACTORY	1
EF-B149	ROOM B149 FAN	ROOFTOP - B		3/4		1	120	D2N2B1	25/1	2#10 AWG	1#10 AWG E.G.	3/4"C	-	FACTORY	1
EF-B228A	ROOM B228 FAN	ROOFTOP - B		1/6		1	120	D2N2B1	20/1	2#10 AWG	1#10 AWG E.G.	3/4"C	-	FACTORY	1
EF-A193	ROOM A193 FAN	ROOFTOP - B		1/6		1	120	D2N2B1	20/1	2#10 AWG	1#10 AWG E.G.	3/4"C	-	FACTORY	1
EF-D146	ROOM D146 FAN	ROOFTOP - D		1/6		1	120	D2N2D1	20/1	2#10 AWG	1#10 AWG E.G.	3/4"C	-	FACTORY	1
EF-C223A	ROOM C223 FAN	ROOFTOP - C1		1/6		1	120	P2N2C2	20/1	2#10 AWG	1#10 AWG E.G.	3/4"C	-	FACTORY	1
EF-D129	ROOM D129 FAN	ROOFTOP - D		1/4		1	120	D2N2D1	20/1	2#10 AWG	1#10 AWG E.G.	3/4"C	-	FACTORY	1
EF-D247	ROOM D247 FAN	ROOFTOP - D		1/6		1	120	D2N2D1	20/1	2#10 AWG	1#10 AWG E.G.	3/4"C	-	FACTORY	1
EF-E227B	ROOM E227 FAN	ROOFTOP - E		1/4		1	120	P2N2E1	20/1	2#10 AWG	1#10 AWG E.G.	3/4"C	-	FACTORY	1
EF-A174	ROOM A174 FAN	ROOFTOP - A1		1/6		1	120	D2N2B1	20/1	2#10 AWG	1#10 AWG E.G.	3/4"C	-	FACTORY	1
EF-D150B	ROOM D150 FAN	TRACTOR INSTRUCTION D150B		1/6		1	120	P2N1D1	20/1	2#10 AWG	1#10 AWG E.G.	3/4"C	-	FACTORY	1
EF-A237	ROOM A237 FAN	ROOFTOP - A2		1/6		1	120	P2N2D1	20/1	2#10 AWG	1#10 AWG E.G.	3/4"C	-	FACTORY	1
EF-B054	ROOM B054 FAN	ELECTRICAL B054		1/4		1	120	M2NBB1	20/1	2#10 AWG	1#10 AWG E.G.	3/4"C	-	FACTORY	1
EF-B054B	ROOM B054 FAN	ELECTRICAL B054			0.048	1	120	FED WITH EF-B054	-	2#10 AWG	1#10 AWG E.G.	3/4"C	-	FACTORY	1
EF-C121	ROOM C121 FAN	ROOFTOP - C1		1/2		1	120	P2N2C2	20/1	2#10 AWG	1#10 AWG E.G.	3/4"C	-	FACTORY	1
EF-C134	ROOM C134 FAN	ROOFTOP - C2		1/4		1	120	P2N2C2	20/1	2#10 AWG	1#10 AWG E.G.	3/4"C	-	FACTORY	1
EF-C202A	ROOM C202 FAN	CAD LAB C202B		1.5		3	208	D2N2C1	20/3	4#10 AWG	1#10 AWG E.G.	3/4"C	-	FACTORY	2
EF-E242	ROOM E242 FAN	ROOFTOP - E		2		1	208	D2N2E1	25/2	3#10 AWG	1#10 AWG E.G.	3/4"C	-	FACTORY	2
EF-A108	ROOM A108 FAN	ROOFTOP - A1		1/6		1	120	P2N2E1	20/1	2#10 AWG	1#10 AWG E.G.	3/4"C	-	FACTORY	1
EF-B052	ROOM B052 FAN	MAINTENANCE B052		1/6		1	120	M2NBB1	20/1	2#10 AWG	1#10 AWG E.G.	3/4"C	-	FACTORY	1
EF-B215C	ROOM B215C FAN	ROOFTOP - B		1/10		1	120	P2N2B1	20/1	2#10 AWG	1#10 AWG E.G.	3/4"C	-	FACTORY	1
EF-A252	ROOM A252 FAN	ROOFTOP - A2		1/10		1	120	FED WITH EF-B215C	-	2#10 AWG	1#10 AWG E.G.	3/4"C	-	FACTORY	1
EF-A131	ROOM A131 FAN	ROOFTOP - A2		1/10		1	120	P2N2D1	20/1	2#10 AWG	1#10 AWG E.G.	3/4"C	-	FACTORY	1
EF-D220	ROOM D220 FAN	ROOFTOP - A2		1/10		1	120	FED WITH EF-A131	-	2#10 AWG	1#10 AWG E.G.	3/4"C	-	FACTORY	1
KEF-1	KITCHEN EXHAUST FAN #1	ROOFTOP - A2		5		3	480	M4N2B1	20/3	4#10 AWG	1#10 AWG E.G.	3/4"C	-	FACTORY	2
KEF-2	BAKE LAB EXHAUST FAN #2	ROOFTOP - D		2		3	480	M4N2D1	20/3	4#10 AWG	1#10 AWG E.G.	3/4"C	-	FACTORY	2
KEF-3	CULIN. KITCHEN EXHAUST FAN #3	ROOFTOP - D		3		3	480	M4N2D1	20/3	4#10 AWG	1#10 AWG E.G.	3/4"C	-	FACTORY	2
KEF-4	FACS LAB EXHAUST FAN #4	ROOFTOP - D		2		1	208	D2N2D1	25/2	3#10 AWG	1#10 AWG E.G.	3/4"C	-	FACTORY	2
KEF-5	FACS LAB EXHAUST FAN #5	ROOFTOP - D		1/2		1	120	D2N2D1	20/1	2#10 AWG	1#10 AWG E.G.	3/4"C	-	FACTORY	1
KEF-6	FACS LAB EXHAUST FAN #6	ROOFTOP - A2		1		1	120	P2N2D1	30/1	2#10 AWG	1#10 AWG E.G.	3/4"C	-	FACTORY	1
KEF-7	ECE KITCHEN EXHAUST FAN #7	ROOFTOP - A1		1/2		1	120	D2N2B1	20/1	2#10 AWG	1#10 AWG E.G.	3/4"C	-	FACTORY	1
KEF-8	LS APARTMENT B215 EXHAUST FAN #8	ROOFTOP - B		1/4		1	120	D2N2B1	20/1	2#10 AWG	1#10 AWG E.G.	3/4"C	-	FACTORY	1
SF-E242	FIRE DRILL AREA E242 FAN	ROOFTOP - E		1/2		1	120	P2N2E1	20/1	2#10 AWG	1#10 AWG E.G.	3/4"C	-	FACTORY	1
DBF-D132C	DRYER BOOSTER FAN D132C	LOCKERS D132C			0.075	1	120	P2N1D2	20/1	2#10 AWG	1#10 AWG E.G.	3/4"C			1
DBF-D112	DRYER BOOSTER FAN D112	FACS CULINARY LAB D112			0.075	1	120	FED WITH DBF-D132C	-	2#10 AWG	1#10 AWG E.G.	3/4"C			1
DBF-D132D	DRYER BOOSTER FAN D132D	LINEN/CLEANING D132D			0.075	1	120	FED WITH DBF-D132C	-	2#10 AWG	1#10 AWG E.G.	3/4"C			1
DBF-C104D	DRYER BOOSTER FAN C104D	CUSTODIAL C104D			0.075	1	120	P2N1C3	20/1	2#10 AWG	1#10 AWG E.G.	3/4"C			1
DBF-E126A	DRYER BOOSTER FAN E126A	STORAGE E126A			0.075	1	120	P2N1E1	20/1	2#10 AWG	1#10 AWG E.G.	3/4"C			1
DC-C138	DUST COLLECTOR SYSTEM C138	WELDING FABRICATION C138 - EXTERIOR		50		3	480	P4N1C2	125/3	4#1/0 AWG	1#6 AWG E.G.	2"C	A, B	PROVIDE WP	4
DC-C117	DUST COLLECTOR SYSTEM C117	CTE EXPLORATION STUDIO C117 - EXTERIOR		20		3	480	P4N1C2	50/3	4#6 AWG	1#10 AWG E.G.	1"C	A, B	PROVIDE WP	4
DC-134b	DUST COLLECTOR SYSTEM 134b	PRECISION MANUFACTURING C134		1.5		3	480	P4N1C2	20/3	4#10 AWG	1#10 AWG E.G.	3/4"C	A, B	PROVIDE WP	4
DC-134a	DUST COLLECTOR SYSTEM 134a	PRECISION MANUFACTURING C134 - EXTERIOR		10		3	480	P4N1C2	25/3	4#8 AWG	1#10 AWG E.G.	1"C	A, B	PROVIDE WP	4
DC-C127	DUST COLLECTOR SYSTEM C127	BUILDING TRADES C127 - EXTERIOR		40		3	480	P4N1C2	100/3	4#1/0 AWG	1#6 AWG E.G.	2"C	A, B	PROVIDE WP	4
CUH-1	CAB. UNIT HEATER #1	STAIR B B050		1/10, 1/15		1	120	P2SBB2	20/1	2#10 AWG	1#10 AWG E.G.	3/4"C	-	-	1
CUH-2	CAB. UNIT HEATER #2	SCIENCE & TECHNOLOGY C120		1/10		1	120	P2S1C1	20/1	2#10 AWG	1#10 AWG E.G.	3/4"C	-	-	1
CUH-3	CAB. UNIT HEATER #3	STAIR C C122		1/10		1	120	FED WITH CUH-2	-	2#10 AWG	1#10 AWG E.G.	3/4"C	-	-	1
CUH-4	CAB. UNIT HEATER #4	CORRIDOR C111		1/10		1	120	FED WITH CUH-2	-	2#10 AWG	1#10 AWG E.G.	3/4"C	-	-	1
CUH-5	CAB. UNIT HEATER #5	STAIR H A155		1/10, 1/15		1	120	P2S1B1	20/1	2#10 AWG	1#10 AWG E.G.	3/4"C	-	-	1
CUH-6	CAB. UNIT HEATER #6	STAIR G D148		1/15		1	120	P2S1D1	20/1	2#10 AWG	1#10 AWG E.G.	3/4"C	-	-	1
CUH-7	CAB. UNIT HEATER #7	ENTRY VESTIBULE D140A		1/10, 1/15		1	120	P2S1D1	20/1	2#10 AWG	1#10 AWG E.G.	3/4"C	-	-	1
CUH-8	CAB. UNIT HEATER #8	STAIR D D118		1/10		1	120	FED WITH CUH-6	-	2#10 AWG	1#10 AWG E.G.	3/4"C	-	-	1
CUH-9	CAB. UNIT HEATER #9	STAIR E E139		1/10		1	120	P2S1E1	20/1	2#10 AWG	1#10 AWG E.G.	3/4"C	-	-	1
CUH-10	CAB. UNIT HEATER #10	SECURED ENTRY/STAIR F E154		1/10		1	120	FED WITH CUH-9	-	2#10 AWG	1#10 AWG E.G.	3/4"C	-	-	1
CUH-11	CAB. UNIT HEATER #11	SECURE ENTRY A148		1/10		1	120	P2S1A1	20/1	2#10 AWG	1#10 AWG E.G.	3/4"C	-	-	1
CUH-12	CAB. UNIT HEATER #12	STAIR A A175		1/10		1	120	FED WITH CUH-11	-	2#10 AWG	1#10 AWG E.G.	3/4"C	-	-	1
CUH-13	CAB. UNIT HEATER #13	CIRCULATION F1119		1/10		1	120	P2S1A1	20/1	2#10 AWG	1#10 AWG E.G.	3/4"C	-	-	1
CUH-14	CAB. UNIT HEATER #14	VESTIBULE F119A		1/10		1	120	P2S1A1	20/1	2#10 AWG	1#10 AWG E.G.	3/4"C	-	-	1
CUH-15	CAB. UNIT HEATER #15	VESTIBULE F119A		1/10		1	120	FED WITH CUH-14	-	2#10 AWG	1#10 AWG E.G.	3/4"C	-	-	1
CUH-16	CAB. UNIT HEATER #16	CIRCULATION F1119		1/10		1	120	FED WITH CUH-13	-	2#10 AWG	1#10 AWG E.G.	3/4"C	-	-	1
CUH-17	CAB. UNIT HEATER #17	CORRIDOR F128		1/10		1	120	P2S1A1	20/1	2#10 AWG	1#10 AWG E.G.	3/4"C	-	-	1
CUH-18	CAB. UNIT HEATER #18	CORRIDOR F128		1/10		1	120	FED WITH CUH-17	-	2#10 AWG	1#10 AWG E.G.	3/4"C	-	-	1
CUH-19	CAB. UNIT HEATER #19	STAIR B B150		1/10		1	120	P2S1B1	20/1	2#10 AWG	1#10 AWG E.G.	3/4"C	-	-	1
CUH-20	CAB. UNIT HEATER #20	ENTRY 2 A171		1/10, 1/15		1	120	P2S1A1	20/1	2#10 AWG	1#10 AWG E.G.	3/4"C	-	-	1
CUH-21	CAB. UNIT HEATER #21	ENTRY 2 A171		1/10, 1/15		1	120	FED WITH CUH-20	-	2#10 AWG	1#10 AWG E.G.	3/4"C	-	-	1
CUH-22	CAB. UNIT HEATER #22	CIRC. A185A		1/10		1	120	FED WITH CUH-17	-	2#10 AWG	1#10 AWG E.G.	3/4"C	-	-	1
ACC-1	A/C CONDENSER #1	ROOFTOP - D	16			1	208	D2N2D1	20/2	3#10 AWG	1#10 AWG E.G.	3/4"C	A	PROVIDE WP	4
AC-1	AIR COND. #1	DATA D144				1	208	FED THROUGH ACC-1	-	3#10 AWG	1#10 AWG E.G.	3/4"C	A, C	PROVIDE	-
ACC-2	A/C CONDENSER #2	ROOFTOP - C1	16			1	208	D2N2C1	20/2	3#10 AWG	1#10 AWG E.G.	3/4"C	A	PROVIDE WP	4
AC-2	AIR COND. #2	DATA C114A				1	208	FED THROUGH ACC-2	-	3#10 AWG	1#10 AWG E.G.	3/4"C	A, C	PROVIDE	-

(3) — DC-C138, DC-C117, DC-134b, DC-134a, DC-C127

GENERAL NOTES:
1. ALL ACCESSORIES PROVIDED BY THE DIVISION 16 CONTRACTOR. UON
2. ALL CONTROL DEVICES ARE TO BE SURFACE MOUNTED, UNLESS OTHERWISE NOTED.
3. PROVIDE OVERLOADS, SIZE AS REQUIRED, BY THE DIVISION 16 CONTRACTOR
4. IF DIFFERENT THAN INDICATED ON THIS SCHEDULE OR PANELBOARD SCHEDULE, PROVIDE NEW CIRCUIT BREAKER IN DESIGNATED PANELBOARD SIZED PER EQUIPMENT NAMEPLATE DATA.

REFERENCE NOTES:
A. PROVIDE PROPERLY SIZED FUSED DISCONNECT SWITCH (WITH FUSES)
B. PROVIDE DISCONNECT SWITCH AHEAD OF CONTROL PANEL
C. PROVIDE 208V (SINGLE-PHASE) WIRING AND CONNECTIONS FROM THE UNIT TO POWER THE REMOTE CONDENSATE PUMP
D. SHUNT TRIP CKT BKR
E. PROVIDE GFCI RECEPTACLE

CONTROL DEVICES NOTES
1. MANUAL MOTOR STARTER
2. COMBINATION MAGNETIC STARTER
3. VARIABLE SPEED DRIVE *
4. PACKAGED CONTROL UNIT
5. FIRE ALARM FAN SHUT DOWN
6 BOILER SHUTDOWN SWITCH & THERMAL CUTOUT

* SUPPLIED BY MECHANICAL CONTRACTOR, INSTALLED AND WIRED BY ELECTRICAL CONTRACTOR

DRAWING NOTES

1 THE FOLLOWING NOTES ONLY APPLY TO THIS DRAWING.

2 REFER TO GENERAL NOTES, ELECTRICAL TRADE NOTES, LEGEND AND ABBREVIATIONS ON DRAWING E0.01.

(3) CONTRACTOR SHALL PROVIDE DISCONNECT SWITCH AHEAD OF DUST COLLECTION SYSTEM CONTROL PANEL, AND OUTDOORS AT THE UNIT (WP), SIZED AS REQUIRED. PROVIDE ALL WIRING IN CONDUIT REQUIRED BETWEEN THE CONTROL PANEL AND THE OUTDOOR UNIT (FOR ALL OPTIONS AND ACCESSORIES TO THE SYSTEM). PROVIDE ALL WIRING BETWEEN THE DUST COLLECTION SYSTEM FIRE PANEL AND THE UNIT, AND CONNECTIONS TO THE BUILDING FIRE ALARM PANEL, AS REQUIRED BY THE LOCAL FIRE DEPARTMENT. ANY AND ALL WIRING AND CONNECTIONS SHALL BE PROVIDED FOR A COMPLETE AND OPERATIONAL SYSTEM.

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Sanford School Department and State of Maine Department of Education

SANFORD HIGH SCHOOL and TECHNICAL CENTER

SANFORD, ME 04073

NO.	DESCRIPTION	DATE

FOR ADDITIONAL INFORMATION, REFER TO PROJECT MANUAL.

CONTENT:
ELECTRICAL SCHEDULES

DRAWN BY: C. NEWELL
PROJECT NO: 12-067-00
DATE: 02/11/2016
REVISED:
SCALE: NO SCALE

E0.04

Project Phase
BID DOCUMENTS

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DRAWING NOTES

1. THE FOLLOWING NOTES ONLY APPLY TO THIS DRAWING.
2. REFER TO GENERAL NOTES, ELECTRICAL TRADE NOTES, LEGEND AND ABBREVIATIONS ON DRAWING E0.01.

ELECTRIC EQUIPMENT AND CONTROL SCHEDULE

EQUIPMENT								SUPPLY						ACCESSORIES	
ITEM NUM.	NAME	ROOM LOC.	AMPS	HP.	KW.	PHASE	SYSTEM VOLTS	PANEL OR CONTROL CENTER	CIRCUIT BREAKER	POWER WIRING FROM PANEL TO CONTROL UNIT AND FROM CONTROL UNIT TO EQUIPMENT: PHASE	GND	CONDUIT	REF. NOTES	FUSED DISCONNECT SWITCH	CONTROL DEVICES NOTES
ACC-3	A/C CONDENSER #3	ROOFTOP - B	16			1	208	D2N2B1	20/2	3#10 AWG	1#10 AWG E.G.	3/4"C	A	PROVIDE WP	4
AC-3	AIR COND. #3	CONTROL RM B103				1	208	FED THROUGH ACC-3	-	3#10 AWG	1#10 AWG E.G.	3/4"C	A, C	PROVIDE	-
ACC-4	A/C CONDENSER #4	ROOFTOP - B	16			1	208	D2N2B1	20/2	3#10 AWG	1#10 AWG E.G.	3/4"C	A	PROVIDE WP	4
AC-4	AIR COND. #4	DATA B132				1	208	FED THROUGH ACC-4	-	3#10 AWG	1#10 AWG E.G.	3/4"C	A, C	PROVIDE	-
ACC-5	A/C CONDENSER #5	ROOFTOP - B	16			1	208	D2N2B1	20/2	3#10 AWG	1#10 AWG E.G.	3/4"C	A	PROVIDE WP	4
AC-5	AIR COND. #5	SERVER B107A				1	208	FED THROUGH ACC-5	-	3#10 AWG	1#10 AWG E.G.	3/4"C	A, C	PROVIDE	-
ACC-6	A/C CONDENSER #6	ROOFTOP - B	23			1	208	D2N2B1	35/2	3#10 AWG	1#10 AWG E.G.	3/4"C	A	PROVIDE WP	4
AC-6	AIR COND. #6	MIDI LAB B146				1	208	FED THROUGH ACC-6	-	3#10 AWG	1#10 AWG E.G.	3/4"C	A, C	PROVIDE	-
ACC-7	A/C CONDENSER #7	ROOFTOP - A1	23			1	208	D2N2B1	35/2	3#10 AWG	1#10 AWG E.G.	3/4"C	A	PROVIDE WP	4
AC-7	AIR COND. #7	IT SERVER/DATA A184A				1	208	FED THROUGH ACC-7	-	3#10 AWG	1#10 AWG E.G.	3/4"C	A, C	PROVIDE	-
ACC-8	A/C CONDENSER #8	ROOFTOP - A1	16			1	208	D2N2B1	20/2	3#10 AWG	1#10 AWG E.G.	3/4"C	A	PROVIDE WP	4
AC-8	AIR COND. #8	IT SERVER/DATA A184A				1	208	FED THROUGH ACC-8	-	3#10 AWG	1#10 AWG E.G.	3/4"C	A, C	PROVIDE	-
ACC-9	A/C CONDENSER #9	ROOFTOP - E	16			1	208	D2N2E1	20/2	3#10 AWG	1#10 AWG E.G.	3/4"C	A	PROVIDE WP	4
AC-9	AIR COND. #9	DATA E127A				1	208	FED THROUGH ACC-9	-	3#10 AWG	1#10 AWG E.G.	3/4"C	A, C	PROVIDE	-
ACC-10	A/C CONDENSER #10	ROOFTOP - A1	16			1	208	D2N2B1	20/2	3#10 AWG	1#10 AWG E.G.	3/4"C	A	PROVIDE WP	4
AC-10	AIR COND. #10	EMR A165				1	208	FED THROUGH ACC-10	-	3#10 AWG	1#10 AWG E.G.	3/4"C	A, C	PROVIDE	-
ACC-11	A/C CONDENSER #11	ROOFTOP - D	16			1	208	D2N2D1	20/2	3#10 AWG	1#10 AWG E.G.	3/4"C	A	PROVIDE WP	4
AC-11	AIR COND. #11	SERVER INSTRUCTION D212A				1	208	FED THROUGH ACC-11	-	3#10 AWG	1#10 AWG E.G.	3/4"C	A, C	PROVIDE	-
ACC-12	A/C CONDENSER #12	ROOFTOP - D	16			1	208	D2N2D1	20/2	3#10 AWG	1#10 AWG E.G.	3/4"C	A	PROVIDE WP	4
AC-12	AIR COND. #12	DATA D210A				1	208	FED THROUGH ACC-12	-	3#10 AWG	1#10 AWG E.G.	3/4"C	A, C	PROVIDE	-
ACC-13	A/C CONDENSER #13	ROOFTOP - A2	16			1	208	D2N2D1	20/2	3#10 AWG	1#10 AWG E.G.	3/4"C	A	PROVIDE WP	4
AC-13	AIR COND. #13	EMR A214A				1	208	FED THROUGH ACC-13	-	3#10 AWG	1#10 AWG E.G.	3/4"C	A, C	PROVIDE	-
ACC-14	A/C CONDENSER #14	ROOFTOP - E	16			1	208	D2N2E1	20/2	3#10 AWG	1#10 AWG E.G.	3/4"C	A	PROVIDE WP	4
AC-14	AIR COND. #14	DATA E227A				1	208	FED THROUGH ACC-14	-	3#10 AWG	1#10 AWG E.G.	3/4"C	A, C	PROVIDE	-
ACC-15	A/C CONDENSER #15	ROOFTOP - C1	16			1	208	D2N2C1	20/2	3#10 AWG	1#10 AWG E.G.	3/4"C	A	PROVIDE WP	4
AC-15	AIR COND. #15	DATA C223				1	208	FED THROUGH ACC-15	-	3#10 AWG	1#10 AWG E.G.	3/4"C	A, C	PROVIDE	-
ACC-16	A/C CONDENSER #16	ROOFTOP - A3	16			1	208	D2N2B1	20/2	3#10 AWG	1#10 AWG E.G.	3/4"C	A	PROVIDE WP	4
AC-16	AIR COND. #16	CONTROL ROOM A282				1	208	FED THROUGH ACC-16	-	3#10 AWG	1#10 AWG E.G.	3/4"C	A, C	PROVIDE	-
ACC-17	A/C CONDENSER #17	ROOFTOP - C1	16			1	208	D2N2C1	20/2	3#10 AWG	1#10 AWG E.G.	3/4"C	A	PROVIDE WP	4
AC-17	AIR COND. #17	ELEC C114B				1	208	FED THROUGH ACC-17	-	3#10 AWG	1#10 AWG E.G.	3/4"C	A, C	PROVIDE	-
ACC-18	A/C CONDENSER #18	ROOFTOP - D	16			1	208	D2N2D1	20/2	3#10 AWG	1#10 AWG E.G.	3/4"C	A	PROVIDE WP	4
AC-18a	AIR COND. #18a	SRO OFFICE D158A				1	208	FED THROUGH ACC-18	-	3#10 AWG	1#10 AWG E.G.	3/4"C	A	PROVIDE	-
AC-18b	AIR COND. #18b	RECEPTION D158				1	208	FED THROUGH ACC-18	-	3#10 AWG	1#10 AWG E.G.	3/4"C	A	PROVIDE	-
ACC1-1	OUTDOOR ACC UNIT #1-1	ROOFTOP - D	21.7			3	480	M4N2D1	30/3	4#10 AWG	1#10 AWG E.G.	3/4"C	A	PROVIDE	-
ACC2-1	OUTDOOR ACC UNIT #2-1	ROOFTOP - D	21.7			3	480	M4N2D1	30/3	4#10 AWG	1#10 AWG E.G.	3/4"C	A	PROVIDE	-
ACC3-1	OUTDOOR ACC UNIT #3-1	ROOFTOP - A2	16.4			3	480	M4N2B1	20/3	4#10 AWG	1#10 AWG E.G.	3/4"C	A	PROVIDE	-
PUH-1	PROP. UNIT HEATER #1	MECH ROOM B057		1/20		1	120	P2SBB2	20/1	2#12 AWG	1#12 AWG E.G.	3/4"C	-	-	1
PUH-2	PROP. UNIT HEATER #2	MECH ROOM B057		1/20		1	120	FED WITH PUH-1	-	2#12 AWG	1#12 AWG E.G.	3/4"C	-	-	1
PUH-3	PROP. UNIT HEATER #3	MAINTENANCE B052		1/20		1	120	P2SBB2	20/1	2#12 AWG	1#12 AWG E.G.	3/4"C	-	-	1
PUH-4	PROP. UNIT HEATER #4	ELECTRICAL B054		1/20		1	120	FED WITH PUH-3	-	2#12 AWG	1#12 AWG E.G.	3/4"C	-	-	1
PUH-5	PROP. UNIT HEATER #5	AUTOMOTIVE COLLISION C139		1/3		1	120	P2S1C1	20/1	2#12 AWG	1#12 AWG E.G.	3/4"C	-	-	1
PUH-6	PROP. UNIT HEATER #6	AUTOMOTIVE COLLISION C139		1/3		1	120	P2S1C1	20/1	2#12 AWG	1#12 AWG E.G.	3/4"C	-	-	1
PUH-7	PROP. UNIT HEATER #7	AUTOMOTIVE COLLISION C139		1/3		1	120	P2S1C1	20/1	2#12 AWG	1#12 AWG E.G.	3/4"C	-	-	1
PUH-8	PROP. UNIT HEATER #8	WELDING FABRICATION C138		1/3		1	120	P2S1C1	20/1	2#12 AWG	1#12 AWG E.G.	3/4"C	-	-	1
PUH-9	PROP. UNIT HEATER #9	WELDING FABRICATION C138		1/3		1	120	P2S1C1	20/1	2#12 AWG	1#12 AWG E.G.	3/4"C	-	-	1
PUH-10	PROP. UNIT HEATER #10	WELDING FABRICATION C138		1/3		1	120	P2S1C1	20/1	2#12 AWG	1#12 AWG E.G.	3/4"C	-	-	1
PUH-11	PROP. UNIT HEATER #11	PRECISION MANUFACTURING C134		1/3		1	120	P2S1C1	20/1	2#12 AWG	1#12 AWG E.G.	3/4"C	-	-	1
PUH-12	PROP. UNIT HEATER #12	PRECISION MANUFACTURING C134		1/3		1	120	P2S1C1	20/1	2#12 AWG	1#12 AWG E.G.	3/4"C	-	-	1
PUH-13	PROP. UNIT HEATER #13	PRECISION MANUFACTURING C134		1/3		1	120	P2S1C1	20/1	2#12 AWG	1#12 AWG E.G.	3/4"C	-	-	1
PUH-14	PROP. UNIT HEATER #14	AUTO TECHNOLOGY C133		1/3		1	120	P2S1C1	20/1	2#12 AWG	1#12 AWG E.G.	3/4"C	-	-	1
PUH-15	PROP. UNIT HEATER #15	AUTO TECHNOLOGY C133		1/3		1	120	P2S1C1	20/1	2#12 AWG	1#12 AWG E.G.	3/4"C	-	-	1
PUH-16	PROP. UNIT HEATER #16	AUTO TECHNOLOGY C133		1/3		1	120	P2S1C1	20/1	2#12 AWG	1#12 AWG E.G.	3/4"C	-	-	1
PUH-17	PROP. UNIT HEATER #17	AUTO TECHNOLOGY C133		1/3		1	120	P2S1C1	20/1	2#12 AWG	1#12 AWG E.G.	3/4"C	-	-	1
PUH-18	PROP. UNIT HEATER #18	BUILDING TRADES C127		1/3		1	120	P2S1C1	20/1	2#12 AWG	1#12 AWG E.G.	3/4"C	-	-	1
PUH-19	PROP. UNIT HEATER #19	BUILDING TRADES C127		1/3		1	120	P2S1C1	20/1	2#12 AWG	1#12 AWG E.G.	3/4"C	-	-	1
PUH-20	PROP. UNIT HEATER #20	BUILDING TRADES C127		1/3		1	120	P2S1C1	20/1	2#12 AWG	1#12 AWG E.G.	3/4"C	-	-	1
PUH-21	PROP. UNIT HEATER #21	CTE EXPLORATION STUDIO C117		1/3		1	120	P2S1C1	20/1	2#12 AWG	1#12 AWG E.G.	3/4"C	-	-	1
PUH-22	PROP. UNIT HEATER #22	CTE EXPLORATION STUDIO C117		1/3		1	120	P2S1C1	20/1	2#12 AWG	1#12 AWG E.G.	3/4"C	-	-	1
PUH-23	PROP. UNIT HEATER #23	RESIDENTIAL WIRING C113		1/20		1	120	P2S1C1	20/1	2#12 AWG	1#12 AWG E.G.	3/4"C	-	-	1
PUH-24	PROP. UNIT HEATER #24	RESIDENTIAL WIRING C113		1/20		1	120	FED WITH PUH-23	-	2#12 AWG	1#12 AWG E.G.	3/4"C	-	-	1
PUH-25	PROP. UNIT HEATER #25	INCUBATOR C101		1/3		1	120	P2S1C1	20/1	2#12 AWG	1#12 AWG E.G.	3/4"C	-	-	1
PUH-26	PROP. UNIT HEATER #26	INCUBATOR C101		1/3		1	120	P2S1C1	20/1	2#12 AWG	1#12 AWG E.G.	3/4"C	-	-	1
PUH-27	PROP. UNIT HEATER #27	HORTICULTURE D150		1/3		1	120	P2S1D1	20/1	2#12 AWG	1#12 AWG E.G.	3/4"C	-	-	1
PUH-28	PROP. UNIT HEATER #28	HORTICULTURE D150		1/3		1	120	P2S1D1	20/1	2#12 AWG	1#12 AWG E.G.	3/4"C	-	-	1
PUH-29	PROP. UNIT HEATER #29	EMS TRAINING E140A		1/3		1	120	P2S1D1	20/1	2#12 AWG	1#12 AWG E.G.	3/4"C	-	-	1
PUH-30	PROP. UNIT HEATER #30	EMS TRAINING E140A		1/3		1	120	P2S1E1	20/1	2#12 AWG	1#12 AWG E.G.	3/4"C	-	-	1
PUH-31	PROP. UNIT HEATER #31	EMS TRAINING E140A		1/3		1	120	P2S1E1	20/1	2#12 AWG	1#12 AWG E.G.	3/4"C	-	-	1
PUH-32	PROP. UNIT HEATER #32	FIRE DRILL AREA E242		1/20		1	120	P2S1E1	20/1	2#12 AWG	1#12 AWG E.G.	3/4"C	-	-	1
PUH-33	PROP. UNIT HEATER #33	PROP & GEAR STORAGE E243		1/20		1	120	FED WITH PUH-32	-	2#12 AWG	1#12 AWG E.G.	3/4"C	-	-	1
PUH-34	PROP. UNIT HEATER #34	TRACTOR INSTRUCTION D150B		1/20		1	120	P2S1D1	20/1	2#12 AWG	1#12 AWG E.G.	3/4"C	-	-	1
PUH-35	PROP. UNIT HEATER #35	PRE-ENG ROBOTICS C105		1/20		1	120	P2S1C1	20/1	2#12 AWG	1#12 AWG E.G.	3/4"C	-	-	1
PUH-36	PROP. UNIT HEATER #36	PRE-ENG ROBOTICS C105		1/20		1	120	FED WITH PUH-35	-	2#12 AWG	1#12 AWG E.G.	3/4"C	-	-	1
PUH-37	PROP. UNIT HEATER #37	STORAGE F102A		1/20		1	120	P2N1A7	20/1	2#12 AWG	1#12 AWG E.G.	3/4"C	-	-	1
VE-1	VEHICLE EXHAUST UNIT #1	AUTO TECHNOLOGY C133		1/2		1	120	P2N1C4	20/1	2#12 AWG	1#12 AWG E.G.	3/4"C	A	PROVIDE	1
VE-2	VEHICLE EXHAUST UNIT #2	AUTO TECHNOLOGY C133		1/2		1	120	P2N1C4	20/1	2#12 AWG	1#12 AWG E.G.	3/4"C	A	PROVIDE	1
VE-3	VEHICLE EXHAUST UNIT #3	AUTO TECHNOLOGY C133		1/2		1	120	P2N1C4	20/1	2#12 AWG	1#12 AWG E.G.	3/4"C	A	PROVIDE	1
VE-4	VEHICLE EXHAUST UNIT #4	AUTO TECHNOLOGY C133		1/2		1	120	P2N1C4	20/1	2#12 AWG	1#12 AWG E.G.	3/4"C	A	PROVIDE	1
VE-5	VEHICLE EXHAUST UNIT #5	EMS TRAINING E140A		1		1	120	P2N1E3	30/1	2#10 AWG	1#10 AWG E.G.	3/4"C	A	PROVIDE	1
VE-6	VEHICLE EXHAUST UNIT #6	EMS TRAINING E140A		1		1	120	P2N1E3	30/1	2#10 AWG	1#10 AWG E.G.	3/4"C	A	PROVIDE	1
AFF-C127c	AIR FILTER FAN C127c	BUILDING TRADES C127		3/4		1	120	P2N1C7	25/1	2#10 AWG	1#10 AWG E.G.	3/4"C	-	-	1
AFF-C127D	AIR FILTER FAN C127D	BUILDING TRADES C127		3/4		1	120	P2N1C7	25/1	2#10 AWG	1#10 AWG E.G.	3/4"C	-	-	1
AFF-C127a	AIR FILTER FAN C127a	BUILDING TRADES C127		3/4		1	120	P2N1C7	25/1	2#10 AWG	1#10 AWG E.G.	3/4"C	-	-	1
AFF-C127b	AIR FILTER FAN C127b	BUILDING TRADES C127		3/4		1	120	P2N1C7	25/1	2#10 AWG	1#10 AWG E.G.	3/4"C	-	-	1
AFF-C117a	AIR FILTER FAN C117a	CTE EXPLORATION STUDIO C117		3/4		1	120	P2N1C9	25/1	2#10 AWG	1#10 AWG E.G.	3/4"C	-	-	1
AFF-C117b	AIR FILTER FAN C117b	CTE EXPLORATION STUDIO C117		3/4		1	120	P2N1C9	25/1	2#10 AWG	1#10 AWG E.G.	3/4"C	-	-	1
AC1-1	INDOOR FAN COIL UNIT #1-1	COSMETOLOGY INSTRUCTION D132A	.30			1	208	P2N1D2	20/2	3#12 AWG	1#12 AWG E.G.	3/4"C	A	PROVIDE	-
AC1-2	INDOOR FAN COIL UNIT #1-2	COSMETOLOGY CLINICAL LAB D132	.27			1	208	FED WITH AC1-1	-	3#12 AWG	1#12 AWG E.G.	3/4"C	A	PROVIDE	-
AC1-3	INDOOR FAN COIL UNIT #1-3	COSMETOLOGY CLINICAL LAB D132	.27			1	208	FED WITH AC1-1	-	3#12 AWG	1#12 AWG E.G.	3/4"C	A	PROVIDE	-
AC1-4	INDOOR FAN COIL UNIT #1-4	BUSINESS/BANK D130	.19			1	208	FED WITH AC1-1	-	3#12 AWG	1#12 AWG E.G.	3/4"C	A	PROVIDE	-
AC1-5	INDOOR FAN COIL UNIT #1-5	BUSINESS/BANK D130	.19			1	208	FED WITH AC1-1	-	3#12 AWG	1#12 AWG E.G.	3/4"C	A	PROVIDE	-
AC1-6	INDOOR FAN COIL UNIT #1-6	BUSINESS D128	.27			1	208	FED WITH AC1-1	-	3#12 AWG	1#12 AWG E.G.	3/4"C	A	PROVIDE	-
AC1-7	INDOOR FAN COIL UNIT #1-7	BUSINESS D128	.27			1	208	FED WITH AC1-1	-	3#12 AWG	1#12 AWG E.G.	3/4"C	A	PROVIDE	-
AC2-1	INDOOR FAN COIL UNIT #2-1	CONFERENCE/INSTRUCTION D249	.30			1	208	P2N2D2	20/2	3#12 AWG	1#12 AWG E.G.	3/4"C	A	PROVIDE	-
AC2-2	INDOOR FAN COIL UNIT #2-2	MARKETING & MANAGEMENT D245	.27			1	208	FED WITH AC2-1	-	3#12 AWG	1#12 AWG E.G.	3/4"C	A	PROVIDE	-
AC2-3	INDOOR FAN COIL UNIT #2-3	MARKETING & MANAGEMENT D245	.27			1	208	FED WITH AC2-1	-	3#12 AWG	1#12 AWG E.G.	3/4"C	A	PROVIDE	-
AC2-4	INDOOR FAN COIL UNIT #2-4	BUSINESS SERVICES D243	.27			1	208	FED WITH AC2-1	-	3#12 AWG	1#12 AWG E.G.	3/4"C	A	PROVIDE	-
AC2-5	INDOOR FAN COIL UNIT #2-5	BUSINESS SERVICES D243	.27			1	208	FED WITH AC2-1	-	3#12 AWG	1#12 AWG E.G.	3/4"C	A	PROVIDE	-
AC3-1	INDOOR FAN COIL UNIT #3-1	CAD LAB C202	.30			1	208	P2N2C3	20/2	3#12 AWG	1#12 AWG E.G.	3/4"C	A	PROVIDE	-
AC3-2	INDOOR FAN COIL UNIT #3-2	CAD LAB C202	.30			1	208	FED WITH AC3-1	-	3#12 AWG	1#12 AWG E.G.	3/4"C	A	PROVIDE	-
AC3-3	INDOOR FAN COIL UNIT #3-3	CAD LAB OFFICE C204	.19			1	208	FED WITH AC3-1	-	3#12 AWG	1#12 AWG E.G.	3/4"C	A	PROVIDE	-
DWH-1	WATER HEATER #1	MECH ROOM B057	4			1	120	P2SBB2	20/1	2#12 AWG	1#12 AWG E.G.	3/4"C	A	PROVIDE	-
DWH-2	WATER HEATER #2	MECH ROOM B057	4			1	120	P2SBB2	20/1	2#12 AWG	1#12 AWG E.G.	3/4"C	A	PROVIDE	-
PP-1	PUMP #1	MECH ROOM B057		1/2		3	208	P2SBB2	20/3	4#12 AWG	1#12 AWG E.G.	3/4"C	-	-	2
PP-2	PUMP #2	MECH ROOM B057		1/8		1	120	P2SBB2	20/1	2#12 AWG	1#12 AWG E.G.	3/4"C	-	-	2
PAC-1	PLBG AIR COMPRESSOR #1	TOOL STORAGE C133B		40		3	480	P4N1C2	100/3	4#1 AWG	1#6 AWG E.G.	1 1/2"C	A	PROVIDE	-
PAC-2	PLBG AIR COMPRESSOR #2	SHARED COMPRESSOR C134D		10		3	208	P2N1C8	60/3	4#4 AWG	1#8 AWG E.G.	1 1/4"C	A	PROVIDE	-
PAC-3	PLBG AIR COMPRESSOR #3	SHARED COMPRESSOR C125D		5		1	208	P2N1C7	60/2	3#4 AWG	1#8 AWG E.G.	1 1/4"C	A	PROVIDE	-
PAC-4	PLBG AIR COMPRESSOR #4	FIRE STORAGE E146		5		3	208	P2N1E3	30/3	4#10 AWG	1#10 AWG E.G.	3/4"C	A	PROVIDE	-
RAD-1	REF. AIR DRYER #1 (FOR COMP.)	TOOL STORAGE C133B			1.25	1	208	P2N1C4	20/2	3#12 AWG	1#12 AWG E.G.	3/4"C	-	-	-
RAD-2	REF. AIR DRYER #2 (FOR COMP.)	SHARED COMPRESSOR C134D				1	120	P2N1C8	20/1	2#12 AWG	1#12 AWG E.G.	3/4"C	-	-	-
RAD-3	REF. AIR DRYER #3 (FOR COMP.)	SHARED COMPRESSOR C125D				1	120	P2N1C7	20/1	2#12 AWG	1#12 AWG E.G.	3/4"C	-	-	-
RAD-4	REF. AIR DRYER #4 (FOR COMP.)	FIRE STORAGE E146				1	120	P2N1E3	20/1	2#12 AWG	1#12 AWG E.G.	3/4"C	-	-	-
SP-1	SUMP PUMP #1	ELEV 1 - ELEV 1		1/2		1	120	P2S1A1	20/1	2#12 AWG	1#12 AWG E.G.	3/4"C	E	PROVIDE	4
SP-2	SUMP PUMP #2	ELEV 1 - ELEV 2		1/2		1	120	P2N1A1	20/1	2#12 AWG	1#12 AWG E.G.	3/4"C	E	PROVIDE	4

GENERAL NOTES:
1. ALL ACCESSORIES PROVIDED BY THE DIVISION 16 CONTRACTOR. UON
2. ALL CONTROL DEVICES ARE TO BE SURFACE MOUNTED, UNLESS OTHERWISE NOTED.
3. PROVIDE OVERLOADS, SIZE AS REQUIRED, BY THE DIVISION 16 CONTRACTOR
4. IF DIFFERENT THAN INDICATED ON THIS SCHEDULE OR PANELBOARD SCHEDULE, PROVIDE NEW CIRCUIT BREAKER IN DESIGNATED PANELBOARD SIZED PER EQUIPMENT NAMEPLATE DATA.

REFERENCE NOTES:
A. PROVIDE PROPERLY SIZED FUSED DISCONNECT SWITCH (WITH FUSES)
B. INSTALLED UNDER PREVIOUS CONTRACT
C. PROVIDE 208V (SINGLE-PHASE) WIRING AND CONNECTIONS FROM THE UNIT TO POWER THE REMOTE CONDENSATE PUMP
D. SHUNT TRIP CKT BKR
E. PROVIDE GFCI RECEPTACLE

CONTROL DEVICES NOTES
1. MANUAL MOTOR STARTER
2. COMBINATION MAGNETIC STARTER
3. VARIABLE SPEED DRIVE *
4. PACKAGED CONTROL UNIT
5. FIRE ALARM FAN SHUT DOWN
6 BOILER SHUTDOWN SWITCH & THERMAL CUTOUT

* SUPPLIED BY MECHANICAL CONTRACTOR, INSTALLED AND WIRED BY ELECTRICAL CONTRACTOR

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Sanford School Department and State of Maine Department of Education

SANFORD HIGH SCHOOL and TECHNICAL CENTER

SANFORD, ME 04073

NO.	DESCRIPTION	DATE

FOR ADDITIONAL INFORMATION, REFER TO PROJECT MANUAL.

CONTENT:
ELECTRICAL SCHEDULES

DRAWN BY: C. NEWELL
PROJECT NO: 12-067-00
DATE: 02/11/2016
REVISED:
SCALE: NO SCALE

E0.05

Project Phase
BID DOCUMENTS

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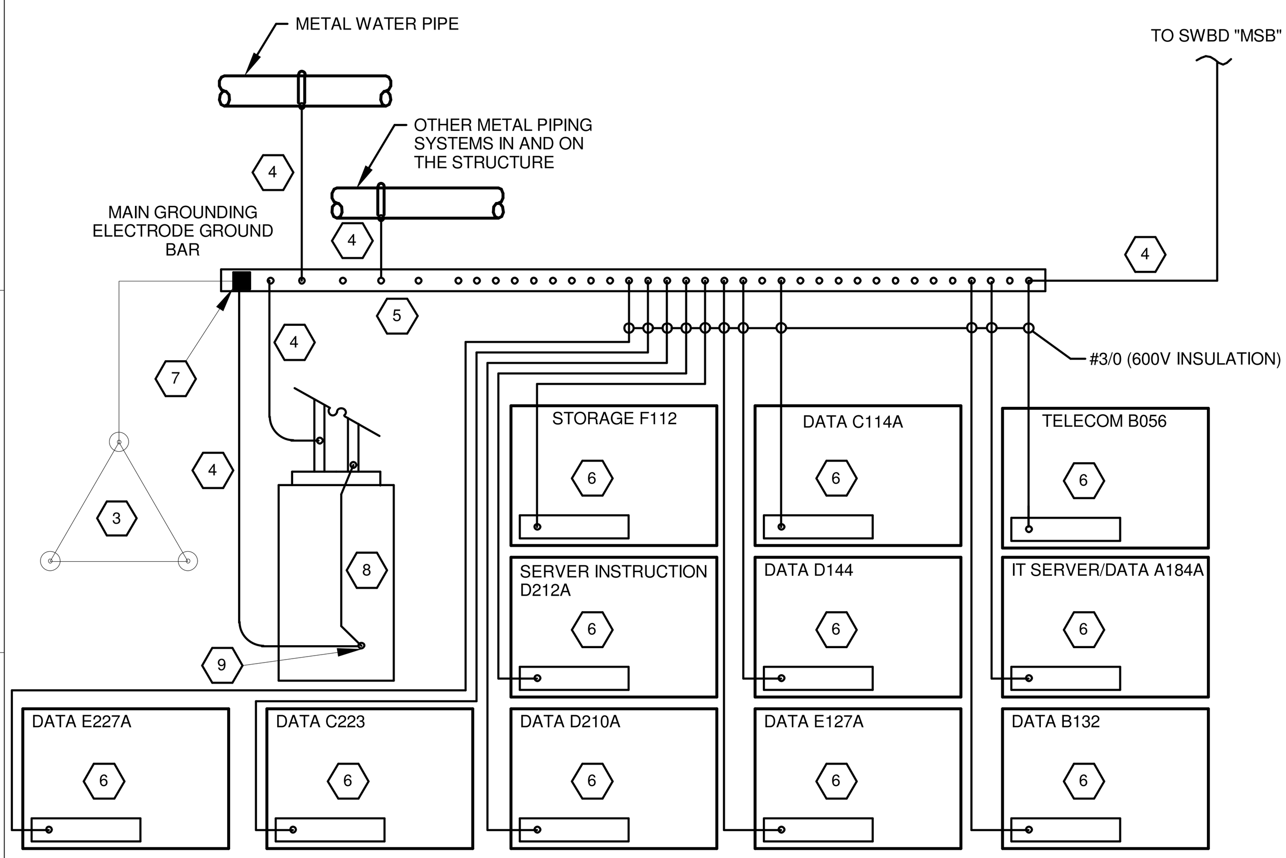

SPECIAL RECEPTACLE SCHEDULE

TYPE	NEMA CONFIG.	ELECTRICAL RATING	POWER SOURCE	WIRE	CONDUIT	REMARKS
D	10-30R	125/250V, 30A 2 POLE, 3 WIRE	208V, 1Ø	2#10 & 1#10G	3/4"	DRYER (1)
K	15-50R	250V, 50A 3 POLE, 4 WIRE	208V, 3Ø	3#6 & 1#10G	1"	KILN (1)
R	14-50R	125/250V, 40A 2 POLE, 3 WIRE	208V, 1Ø	3#6 & 1#10G	3/4"	RANGE (1)
T	L5-30R	125V, 30A 1 POLE, 3 WIRE	120V, 1Ø	2#10 & 1#10G	3/4"	UPS (1)(2)
USB	L5-20R	125V, 20A 1 POLE, 3 WIRE	120V, 1Ø	2#12 & 1#12G	3/4"	USB RECEPTACLE WITH DUPLEX (1)
USB1	-	125V, 20A 1 POLE, 3 WIRE	120V, 1Ø	2#12 & 1#12G	3/4"	4 PORT USB RECEPTACLE (1)
W	L16-30R	480V, 30A 3 POLE, 4 WIRE	480V, 3Ø	3#10 & 1#10G	3/4"	WELDING BOOTH (1)
X	??-??	???/???V, ??A ? POLE, ? WIRE	???V, ?Ø	4#10 & 1#10G	3/4"	FIELD VERIFY (1)

(1) COORDINATE EXACT NEMA CONFIGURATION REQUIRED WITH ACTUAL EQUIPMENT SUPPLIED.
(2) PROVIDE CONNECTOR BODY ON STRAIN RELIEF CORDSET FROM TOP OF 4 POST RACK MDF SUPPORT STRUCTURE, WITH SLACK TO REACH CUSTOMER SUPPLIED UPS PACKAGE.

BUS DROP CORD RECEPTACLE SCHEDULE

TYPE	NEMA CONFIG.	ELECTRICAL RATING	POWER SOURCE	WIRE	CONDUIT	MOUNTING HEIGHT	REMARKS	
B A	5-20R	125V, 20A 2 POLE, 3 WIRE	120V, 1Ø	2#12 & 1#12G	3/4"	24"	STRAIGHT BLADE	(1)(2)
B B	??-??	???/???V, 20A ? POLE, ? WIRE	208V, 1Ø	3#12 & 1#12G	3/4"	24"	FIELD VERIFY	(1)(2)
B C	L15-20R	250V, 20A 3 POLE, 4 WIRE	208V, 3Ø	3#10 & 1#10G	3/4"	24"	TWIST-LOCK	(1)(2)
B D	L6-20R	250V, 20A 2 POLE, 3 WIRE	208V, 1Ø	2#12 & 1#12G	3/4"	24"	TWIST-LOCK	(1)(2)
B F	??-??	???/???V, 30A ? POLE, ? WIRE	208V, 3Ø	4#10 & 1#10G	3/4"	24"	FIELD VERIFY	(1)(2)
B G	??-??	???/???V, 50A ? POLE, ? WIRE	???V, 3Ø	4#6 & 1#10G	1"	24"	FIELD VERIFY	(1)(3)
B X	??-??	???/???V, ??A ? POLE, ? WIRE	???V, ?Ø	4#12 & 1#12G	3/4"	24"	FIELD VERIFY	(1)(2)

(1) COORDINATE EXACT NEMA CONFIGURATION REQUIRED WITH ACTUAL EQUIPMENT SUPPLIED.
(2) DEEP, SINGLE-GANG, CAST ALUMINUM WITH 3/4" HUB, OPEN FRONT AND REAR FOR TWO DEVICES.
(3) DEEP TWO-GANG BOX WITH 1" HUB.

DRAWING NOTES

1 THE FOLLOWING NOTES ONLY APPLY TO THIS DRAWING.

2 REFER TO GENERAL NOTES, ELECTRICAL TRADE NOTES, LEGEND AND ABBREVIATIONS ON DRAWING E0.01.

3 PROVIDE #4/0 COPPER GROUND CONDUCTOR IN 1 1/4" PVC CONDUIT AND CONNECT (UNDERGROUND) TO THE DELTA GROUND GRID (THREE GROUND RODS, 10 FEET APART). CONNECT GROUND TO ALL OTHER BUILDING STEEL, METAL PIPING, ETC., AS REQUIRED BY ARTICLE 250 OF THE NEC.

4 INSTALL GROUNDING ELECTRODE CONDUCTOR, SIZED BASED ON NEC TABLE 250-66 USING THE SERVICE PHASE CONDUCTOR SIZE, BUT NOT SMALLER THAN NO 4.

5 INSTALL A "MAIN GROUND ELECTRODE GROUND BAR" FOR SINGLE POINT GROUNDING. LOCATE AT AN ACCESSIBLE POINT NEAR THE SERVICE ENTRANCE EQUIPMENT. MAKE CONNECTIONS TO THE GROUND ELECTRODE CONDUCTOR USING IRREVERSIBLE CONNECTORS OR EXOTHERMIC WELDS. MAKE OTHER CONNECTIONS TO THE GROUND BAR USING TWO-HOLE COMPRESSION SPADE LUGS THAT MEET IEEE 837 REQUIREMENTS. LABEL EACH CONNECTION TO THE GROUND BAR.

6 INSTALL A COPPER GROUNDING BAR IN EACH TELECOMMUNICATIONS ROOM. CONNECT TO THE "MAIN GROUNDING ELECTRODE GROUND BAR" USING 600V INSULATED #6 COPPER CABLE AND COMPRESSION SPADE LUGS. MOUNT AT 7' AFF.

7 INSTALL IRREVERSIBLE COMPRESSION CONNECTOR WITH TAMPERPROOF HARDWARE OR INSTALL EXOTHERMIC WELD.

8 BOND STEEL COLUMN TO CONCRETE ENCASED ELECTRODE.

9 PROVIDE CONCRETE ENCASED GROUNDING ELECTRODE(S) IN THE NEW CONCRETE FOUNDATION(S) USING:

A. AT LEAST 1/2" DIAMETER STEEL BAR (NO. 4 REBAR OR LARGER).

B. AT LEAST 20 FT. IN LENGTH OR MULTIPLE PIECES TIED TOGETHER TO MAKE ELECTRICALLY CONTINUOUS.

C. PLACED NEAR THE BOTTOM OF THE ADDITION FOOTING WITH A MINIMUM 3" OF CONCRETE COVER.

D. NOT ENCAPSULATED IN NONCONDUCTIVE COATINGS.

FLOOR BOX SCHEDULE

DEVICE	TYPE/SIZE	DESCRIPTION	CONDUITS	COMMENTS	OUTLETS REQUIRED
A1	RECESSED FLOOR BOX SLAB ON GRADE TYPE 10" x 13-5/8" x 2 7/16"	WIREMOLD RESOURCE FLOOR BOX (RFB4E-OG) STEEL FOUR GANG BOX FOR INSTALLATION IN CONCRETE FLOORS. PROVIDE SURFACE STYLE COVER ASSEMBLY WITH TILE SHIMS USE IN CARPETED FLOORS, AND FLUSH STYLE COVER ASSEMBLY WITH TILE SHIMS FOR USE IN WOOD AND RESILIENT TILE INSTALLATION. INCLUDE TERAZZO RING WHERE FLOOR BOX WILL BE INSTALLED IN PORCELAIN TILE OR POLISHED CONCRETE FLOORS.	1 - 3/4"C POWER 1 - 1"C DATA	FOUR GANG CAPACITY FLOOR BOX, PROVIDE SCREW DOWN COVER AND DEVICE BRACKETS LISTED. PROVIDE QUANTITY AND LOCATIONS AS INDICATED ON PLANS.	TWO DUPLEX RECEPTACLES RFB-DR COVER FINISH TO BE SELECTED BY ARCHITECT. TWO BLANK PLATES RFB-B ONE DECORA DATA BRACKET RFB4GFI (2DATA OUTLETS)
A2	RECESSED FLOOR BOX SLAB ON GRADE TYPE 10" x 13-5/8" x 2 7/16"	WIREMOLD RESOURCE FLOOR BOX (RFB4E-OG) STEEL FOUR GANG BOX FOR INSTALLATION IN CONCRETE FLOORS. PROVIDE SURFACE STYLE COVER ASSEMBLY WITH TILE SHIMS USE IN CARPETED FLOORS, AND FLUSH STYLE COVER ASSEMBLY WITH TILE SHIMS FOR USE IN WOOD AND RESILIENT TILE FLOORS. INCLUDE TERAZZO RING WHERE FLOOR BOX WILL BE INSTALLED IN PORCELAIN TILE OR POLISHED CONCRETE FLOORS.	1 - 3/4"C POWER 1-1"C DATA	FOUR GANG CAPACITY FLOOR BOX, PROVIDE SCREW DOWN COVER AND DEVICE BRACKETS LISTED. PROVIDE QUANTITY AND LOCATIONS AS INDICATED ON PLANS. COORDINATE TEL/DATA, AND AV OUTLET INSTALLATION WITH TELECOM AND A/V CONTRACTOR.	TWO DUPLEX RECEPTACLES RFB-DR ONE DECORA DATA BRACKET RFB4GFI (4DATA OUTLETS) COVER FINISH TO BE SELECTED BY ARCHITECT. TWO BLANK PLATES RFB-B
A3	RECESSED FLOOR BOX SLAB ON GRADE TYPE 14-5/8"x 14"x 4"	WIREMOLD RESOURCE FLOOR BOX (RFB6E-OG) FOR INSTALLATION IN CONCRETE FLOORS. PROVIDE SURFACE STYLE COVER ASSEMBLY WITH TILE SHIMS FOR USE IN CARPETED FLOORS, AND FLUSH STYLE COVER ASSEMBLY WITH TILE SHIMS FOR USE IN WOOD AND RESILIENT TILE FLOORS. INCLUDE TERAZZO RING WHERE FLOOR BOX WILL BE INSTALLED IN PORCELAIN TILE OR POLISHED CONCRETE FLOORS	1 - 3/4"C POWER 1 - 1"C DATA 2 -1-1/4"C AV FUTURE	SIX GANG CAPACITY FLOOR BOX, PROVIDE SCREW DOWN COVER AND DEVICE BRACKETS LISTED. PROVIDE QUANTITY AND LOCATIONS AS INDICATED ON PLANS. COORDINATE TEL/DATA, AND AV OUTLET INSTALLATION WITH TELECOM AND A/V CONTRACTOR.	TWO DUPLEX RECEPTACLES RFB6DP ONE DECORA DATA BRACKET RFB6GFI (2 DATA OUTLETS) A1 INPUT PLATE (AV CONNECTIONS) TWO BLANK RFB6B COVER FINISH TO BE SELECTED BY ARCHITECT.
A4	RECESSED FLOOR BOX SLAB ON GRADE TYPE 14-5/8"x 14"x 4"	WIREMOLD RESOURCE FLOOR BOX (RFB6E-OG) FOR INSTALLATION IN CONCRETE FLOORS. PROVIDE SURFACE STYLE COVER ASSEMBLY WITH TILE SHIMS FOR USE IN CARPETED FLOORS, AND FLUSH STYLE COVER ASSEMBLY WITH TILE SHIMS FOR USE IN WOOD AND RESILIENT TILE FLOORS. INCLUDE TERAZZO RING WHERE FLOOR BOX WILL BE INSTALLED IN PORCELAIN TILE OR POLISHED CONCRETE FLOORS	1 - 3/4"C POWER 1 - 1"C DATA 2 -1-1/4"C AV	SIX GANG CAPACITY FLOOR BOX, PROVIDE SCREW DOWN COVER AND DEVICE BRACKETS LISTED. PROVIDE QUANTITY AND LOCATIONS AS INDICATED ON PLANS. COORDINATE TEL/DATA, AND AV OUTLET INSTALLATION WITH TELECOM AND A/V CONTRACTOR.	TWO DUPLEX RECEPTACLES RFB6DP ONE DECORA DATA BRACKET RFB6GFI (2 DATA, 1 VOICE, AND 1 CATV OUTLET) TWO DECORA A/V BRACKET RFB6GFI ONE BLANK RFB6B COVER FINISH TO BE SELECTED BY ARCHITECT. 1 - 11/4" CONDUIT TO CONNECT TO SCOREBOARD
B1	FIRE RATED RECESSED POKE THRU DEVICE	WIREMOLD EVOLUTION SERIES (8AT) FIRE RATED POKE THRU FOR INSTALLATION IN CONCRETE FLOORS. PROVIDE SURFACE STYLE COVER ASSEMBLY AND TILE SHIMS FOR USE IN CARPETED FLOORS, AND FLUSH STYLE COVER ASSEMBLY WITH TILE SHIMS FOR FOR USE IN WOOD, RESILIENT TILE, AND POLISHED CONCRETE FLOORS.	1 - 3/4"C POWER 1 - 1"C DATA 1 - 2"C AV DATA	FOUR GANG CAPACITY POKE THRU, PROVIDE SCREW DOWN COVER AND 2", 3/4", AND 1" BOTTOM HOUSING ASSEMBLIES AND DEVICE BRACKETS LISTED. PROVIDE QUANTITY AND LOCATIONS AS INDICATED ON PLANS. COORDINATE TEL/DATA OUTLET INSTALLATION WITH TELECOM CONTRACTOR.	TWO DUPLEX POWER RECEPTACLES 68REC (ONE PER SIDE) ONE DECORA DATA DEVICE PLATE 8DEC (2 DATA OUTLETS) COVER FINISH TO BE SELECTED BY ARCHITECT. A1 INPUT PLATE (AV CONNECTIONS)
B2	FIRE RATED RECESSED POKE THRU DEVICE	WIREMOLD EVOLUTION SERIES (6AT) FIRE RATED POKE THRU FOR INSTALLATION IN CONCRETE FLOORS. PROVIDE SURFACE STYLE COVER ASSEMBLY AND TILE SHIMS FOR USE IN CARPETED FLOORS, AND FLUSH STYLE COVER ASSEMBLY WITH TILE SHIMS FOR FOR USE IN WOOD, RESILIENT TILE, AND POLISHED CONCRETE FLOORS.	1 - 3/4"C POWER 1-2" C AV/DATA	THREE GANG CAPACITY POKE THRU, PROVIDE SCREW DOWN COVER , (1) 3/4", (1-1/4", AND (1) BLANK BOTTOM HOUSING ASSEMBLIES AND DEVICE BRACKETS LISTED. PROVIDE QUANTITY AND LOCATIONS AS INDICATED ON PLANS.	TWO DUPLEX POWER RECEPTACLES 68REC (ONE PER SIDE) BLANK PLATE 6B FOR CENTER COMPARTMENT COVER FINISH TO BE SELECTED BY ARCHITECT. ONE DECORA DATA BRACKET RFB4GFI (4DATA OUTLETS)
B3	FIRE RATED RECESSED POKE THRU DEVICE	WIREMOLD EVOLUTION SERIES (6AT) FIRE RATED POKE THRU FOR INSTALLATION IN CONCRETE FLOORS. PROVIDE SURFACE STYLE COVER ASSEMBLY AND TILE SHIMS FOR USE IN CARPETED FLOORS, AND FLUSH STYLE COVER ASSEMBLY WITH TILE SHIMS FOR FOR USE IN WOOD, RESILIENT TILE, AND POLISHED CONCRETE FLOORS.	1 - 3/4"C POWER 1-2" C AV/DATA	THREE GANG CAPACITY POKE THRU, PROVIDE SCREW DOWN COVER , (1) 3/4", (1-1/4", AND (1) BLANK BOTTOM HOUSING ASSEMBLIES AND DEVICE BRACKETS LISTED. PROVIDE QUANTITY AND LOCATIONS AS INDICATED ON PLANS.	TWO DUPLEX POWER RECEPTACLES 68REC (ONE PER SIDE) COVER FINISH TO BE SELECTED BY ARCHITECT. ONE DECORA DATA DEVICE PLATE 8DEC (2 DATA OUTLETS)
D1	FURNITURE FEED RECESSED FLOOR BOX SLAB ON GRADE TYPE 4 13/16"X4 13/16"X3 1/2"	WIREMOLD 880 SERIES FLOOR BOX (889B) STAMPED STEEL, DOUBLE GANG BOX FOR INSTALLATION IN CONCRETE FLOORS. PROVIDE SURFACE STYLE COVER ASSEMBLY WITH TILE SHIMS FOR USE IN CARPETED FLOORS, AND FLUSH STYLE COVER ASSEMBLY WITH TILE SHIMS FOR USE IN WOOD AND RESILIENT TILE INSTALLATION. INCLUDE TERAZZO RING WHERE FLOOR BOX WILL BE INSTALLED IN PORCELAIN TILE OR POLISHED CONCRETE FLOORS.	1 - 1"C POWER	DOUBLE GANG BOX, PROVIDE SCREW DOWN BRASS COVER WITH TAPPED HOLE FOR FURNITURE FEED PROVIDE QUANTITY AND LOCATIONS AS INDICATED ON PLANS.	FURNITURE FEED COVER PLATE FOR CONNECTION BY ELECTRICAL CONTRACTOR COVER FINISH TO BE SELECTED BY ARCHITECT.
D2	RECESSED FLOOR BOX SLAB ON GRADE TYPE 10" x 13-5/8" x 2 7/16"	WIREMOLD RESOURCE FLOOR BOX (RFB4E-OG) STEEL FOUR GANG BOX FOR INSTALLATION IN CONCRETE FLOORS. PROVIDE SURFACE STYLE COVER ASSEMBLY WITH TILE SHIMS USE IN CARPETED FLOORS, AND FLUSH STYLE COVER ASSEMBLY WITH TILE SHIMS FOR USE IN WOOD AND RESILIENT TILE FLOORS. INCLUDE TERAZZO RING WHERE FLOOR BOX WILL BE INSTALLED IN PORCELAIN TILE OR POLISHED CONCRETE FLOORS.	1 - 3/4"C POWER 1-1"C DATA	FOUR GANG CAPACITY FLOOR BOX, PROVIDE SCREW DOWN COVER AND DEVICE BRACKETS LISTED. PROVIDE QUANTITY AND LOCATIONS AS INDICATED ON PLANS. COORDINATE TEL/DATA, AND AV OUTLET INSTALLATION WITH TELECOM AND A/V CONTRACTOR.	TWO DUPLEX RECEPTACLES RFB-DR EACH ON OWN CIRCUIT ONE DECORA DATA BRACKET RFB4GFI (4DATA OUTLETS) COVER FINISH TO BE SELECTED BY ARCHITECT. TWO BLANK PLATES RFB-B
R1	CAST IRON THEATER SEATING FLOOR BOX	HUBBELL CAT #3185 NONADJUSTABLE. PROVIDES 3/4" THREADED HUB FOR CONDUIT CONNECTION TO THEATER AISLE LIGHTS. CAST IRON BOX WITH CORROSION-RESISTANT FINISH	1-3/4"C POWER	PERMITS OPENING OF THE ENCLOSURE FOR WIRING WITHOUT DISTURBING ABOVE FLOOR CONNECTIONS. BLANK STEEL COVER.	
S1	RECESSED FLOOR BOX POKE THRU DEVICE POUR IN PLACE 4 13/16"X4 13/16"X3 1/2"	WIREMOLD 880 SERIES FLOOR BOX (889B) CAST IRON, DOUBLE GANG BOX FOR INSTALLATION IN CONCRETE FLOORS. PROVIDE SURFACE STYLE COVER ASSEMBLY WITH TILE SHIMS FOR USE IN CARPET FLOORS, AND FLUSH STYLE COVER ASSEMBLY WITH TILE SHIMS FOR USE IN WOOD AND RESILIENT TILE INSTALLATION.	1 - 3/4"C POWER 1-1" C DATA	DOUBLE GANG BOX, PROVIDE SCREW DOWN COVER PROVIDE QUANTITY AND LOCATIONS AS INDICATED ON PLANS.	ONE DUPLEX POWER RECEPTACLE WITH USB COVER FINISH TO BE SELECTED BY ARCHITECT. PROVIDE DECORA TYPE FRAME FOR TELECOM (2 DATA OUTLETS)
W1	RECESSED FLOOR BOX WOOD FLOOR TYPE	WIREMOLD RFB6 OR FSR FL500P FOR INSTALLATION IN WOOD FLOORS. PROVIDE SURFACE STYLE COVER ASSEMBLY	1-3/4"C POWER 1 - 1"C DATA 2 -1-1/4"C AV	SIX GANG CAPACITY FLOOR BOX, PROVIDE SCREW DOWN COVER AND DEVICE BRACKETS LISTED. PROVIDE QUANTITY AND LOCATIONS AS INDICATED ON PLANS. COORDINATE TEL/DATA, AND AV OUTLET INSTALLATION WITH TELECOM AND A/V CONTRACTOR.	TWO DUPLEX RECEPTACLES RFB6DP ONE DECORA DATA BRACKET RFB6GFI (2 DATA OUTLETS) COVER FINISH TO BE SELECTED BY ARCHITECT.
NOTES:	1. DATA AND AV CONDUITS SHALL BE STUBBED TO ACCESSIBLE CEILING AREA, COORDINATE WITH IT CONTRACTOR AND AV DRAWINGS. 2. COORDINATE THE LOCATION OF ALL FLOOR BOXES WITH THE ARCHITECT PRIOR TO INSTALLATION. 3. CAST IRON FLOOR BOXES SHALL BE INSTALLED IN INSTALLATIONS AT GRADE, PER NEC. 4. STAMPED STEEL FLOOR BOXES SHALL BE INSTALLED IN INSTALLATIONS ABOVE GRADE, PER NEC. 5. CONTRACTOR SHALL ENSURE BOX IS AS FLUSH AND LEVEL WITH FLOOR AS POSSIBLE UPON INSTALLATION				

WALL BOX SCHEDULE

DEVICE	TYPE/SIZE	DESCRIPTION	CONDUITS	COMMENTS	OUTLETS REQUIRED
LCD	FLAT PANEL DISPLAY WALL BOX 11"x5.25"x3.5"	FSR INC PWB-100-WHT	1 - 3/4"C POWER 1 - 1"C DATA 1 - 1 1/4"C AV	FLAT PANEL DISPLAY BOX AT FLAT PANEL LOCATION QUANTITY AND LOCATION AS INDICATED ON PLANS.	TWO DUPLEX POWER OUTLETS ONE DATA OUTLET A2 INPUT PLATE (AV CONNECTIONS) SEE DETAIL SHEET T0.12 WHERE REQUIRED
NOTES:	1. DATA AND AV CONDUITS SHALL BE STUBBED TO ACCESSIBLE CEILING AREA, COORDINATE WITH IT CONTRACTOR AND AV DRAWINGS. 2. COORDINATE THE LOCATION OF ALL WALL BOXES WITH THE ARCHITECT PRIOR TO INSTALLATION.				

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Sanford School Department and State of Maine Department of Education

SANFORD HIGH SCHOOL and TECHNICAL CENTER

SANFORD, ME 04073

NO.	DESCRIPTION	DATE

FOR ADDITIONAL INFORMATION, REFER TO PROJECT MANUAL.

CONTENT: ELECTRICAL SCHEDULES

DRAWN BY:	C. NEWELL
PROJECT NO:	12-067-00
DATE:	02/11/2016
REVISED:	
SCALE:	NO SCALE

E0.06

Project Phase
BID DOCUMENTS

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DRAWING NOTES

1 THE FOLLOWING NOTES ONLY APPLY TO THIS DRAWING.

2 REFER TO GENERAL NOTES, ELECTRICAL TRADE NOTES, LEGEND AND ABBREVIATIONS ON DRAWING E0.01.

SWITCHBOARD: MSB-A

BUS SIZE: 3000 AMPS — MAIN: 3000 AMP MCB ELECTRONIC TRIP
VOLTAGE: 480 Y/277V 3PH,4W — NEUTRAL: 100%
SERVICE RATED: YES — LOCATION: ELECTRICAL B054
ISOLATED GND BUS: NO — MOUNTING: FLOOR
SHORT CIR. CURRENT RATING 65000 AMPS — TVSS: YES

DIRECTORY	WATTS OF LOAD			CKT BKR AMPS	POLES		CKT BKR AMPS	WATTS OF LOAD			DIRECTORY
	L1	L2	L3					L1	L2	L3	
	11587				1	2		88672			
PANEL L4N1E1		4679		125	3	4	600ET		80744		PANEL D2N1B1
			2714		5	6				82148	VIA TRANS TB1
	121882				7	8		145699			
PANEL M4N2C1		121882		600ET	9	10	1000ET		140857		PANEL D2N1C1
			121882		11	12				133255	VIA TRANS TC1
	87606				13	14		9857			
PANEL M4N2B1		87606		400ET	15	16	125		12825		PANEL L4N2B1
			87606		17	18				1544	
	160230				19	20		96959			
PANEL P4N1C6A & B		159034		800ET	21	22	600ET		95573		PANEL D2N1A1
			157602		23	24				85489	VIA TRANS TA1
	28414				25	26		25000			
PANEL D2N1E1		30757		300ET	27	28	300ET		25000		DIMMER RACK DR1
VIA TRANS TE1			26269		29	30				25000	VIA TRANS T-DR
	28984				31	32		51914			
PANEL D2N2C1		24866		400ET	33	34	300ET		58090		PANEL D2N2B1
VIA TRANS TC2			25388		35	36				34808	VIA TRANS TB2
	14414				37	38		2911			
PANEL L4N1C1		12850		125	39	40	125		4077		PANEL L4N2C1
			5103		41	42				3003	
	86258				43	44		3410			
PANEL P4LSB1		59647		300ET	45	46	125		6166		PANEL L4N1B1
VIA ATS-LS			50843		47	48				3262	
					49	50		15690			
SPARE				400ET	51	52	125		15523		PANEL L4N1A1
					53	54				9090	
					55	56					
SPARE				225ET	57	58	400ET				SPARE
					59	60					
					61	62					
SPARE				225ET	63	64	250				SPACE
					65	66					
SUBTOTAL	539375	501321	477407					440112	438855	377599	SUBTOTAL

NOTES:
TOTAL WATTS L1: 979487
TOTAL WATTS L2: 940176
TOTAL WATTS L3: 855006
TOTAL WATTS: 2774669
C.B. TYPE — TOTAL AMPS @ 100%: 3341 AMPS
S=SHUNT TRIP G=GFCI — TOTAL AMPS @ 125%: 4177 AMPS
L=LOCK ON C.B. H=HACR C.B.
AF=ARC FAULT — TOTAL PANEL RECPT LOAD = 0 WATTS

SWITCHBOARD: MSB-B

BUS SIZE: 3000 AMPS — MAIN: 3000 AMP MCB ELECTRONIC TRIP
VOLTAGE: 480 Y/277V 3PH,4W — NEUTRAL: 100%
SERVICE RATED: YES — LOCATION: ELECTRICAL B054
ISOLATED GND BUS: NO — MOUNTING: FLOOR
SHORT CIR. CURRENT RATING 65000 AMPS — TVSS: YES

DIRECTORY	WATTS OF LOAD			CKT BKR AMPS	POLES		CKT BKR AMPS	WATTS OF LOAD			DIRECTORY
	L1	L2	L3					L1	L2	L3	
	70225				1	2		148996			
PANEL M4N2E1		70225		400ET	3	4	600ET		148996		PANEL M4N2D1
			70225		5	6				148996	
PANEL D4NFF1	50563				7	8		42128			
FOOTBALL FIELD LIGHTING		48888		800ET	9	10	300ET		41625		PANEL D2N2D1
& STADIUM, ETC.			50278		11	12				39344	VIA TRANS TD2
	110236				13	14		59028			
PANEL D2N1D1		103507		600ET	15	16	250ET		59028		PANEL P4N1C2
VIA TRANS TD1			104830		17	18				59028	
	95756				19	20		23870			
PANEL M4N1A1		95756		400ET	21	22	125		17109		PANEL L4N1D1
			95756		23	24				14309	
	252651				25	26		7702			
PANEL P4SBB1		241312		900ET	27	28	125		3961		PANEL L4N2D1
VIA ATS-SP			235128		29	30				5226	
	27081				31	32		6172			
PANEL D2N2E1		26123		300ET	33	34	125		4459		PANEL L4N2E1
VIA TRANS TE2			26708		35	36				3466	
	2444				37	38		14410			
PANEL M2NBB1		2328		100	39	40	100		14410		LIGHTING CABINET RP2
VIA TRANS T-B			2520		41	42				14410	VIA TRANS T-RP
	9422				43	44					
ELEVATOR #2		9422		60	45	46	400ET				SPARE
			9422		47	48					
					49	50					
SPARE				400ET	51	52	225ET				SPARE
					53	54					
SUBTOTAL	618378	597561	594867					302306	289588	284779	SUBTOTAL

NOTES:
TOTAL WATTS L1: 920684
TOTAL WATTS L2: 887149
TOTAL WATTS L3: 879646
TOTAL WATTS: 2687479
C.B. TYPE — TOTAL AMPS @ 100%: 3236 AMPS
S=SHUNT TRIP G=GFCI — TOTAL AMPS @ 125%: 4045 AMPS
L=LOCK ON C.B. H=HACR C.B.
AF=ARC FAULT — TOTAL PANEL RECPT LOAD = 0 WATTS

PANELBOARD: P4S1A1

BUS SIZE: 600 AMPS — MAIN: MLO
VOLTAGE: 480 Y/277V 3PH,4W — NEUTRAL: 100%
SERVICE RATED: NO — LOCATION: ELEC F111D
ISOLATED GND BUS: NO — MOUNTING: SURFACE
SHORT CIR. CURRENT RATING 18000 AMPS — TVSS: NO

DIRECTORY	WATTS OF LOAD			CKT BKR AMPS	POLES		CKT BKR AMPS	WATTS OF LOAD			DIRECTORY
	L1	L2	L3					L1	L2	L3	
	30817				1	2		35605			
UNIT DHU-12		30817		125	3	4	150		35605		UNIT AHU-1
			30817		5	6				35605	
	35605				7	8		20785			
UNIT AHU-3		35605		150	9	10	90		20785		UNIT AHU-4
			35605		11	12				20785	
	26305				13	14		443			
UNIT AHU-6		26305		110	15	16	20		443		CIRC PUMP CP-1
			26305		17	18				443	
	443				19	20					
CIRC PUMP CP-3		443		20	21	22	50				SPARE
			443		23	24					
					25	26					
SPARE				20	27	28	20				SPARE
					29	30					
LTG - GYM F122	2002			20	31	32	20	2990			LTG - GYM F102
LTG - GYM F122		2772		20	33	34	20		3680		LTG - GYM F102
SPARE				20	35	36	20			4036	LTG - CIRCULATION F119
SPARE				20	37	38	20				SPARE
SPARE				20	39	40	20				SPARE
SPARE				20	41	42	20				SPARE
SUBTOTAL	95172	95942	93170					59823	60513	60869	SUBTOTAL

NOTES:
TOTAL WATTS L1: 154995
TOTAL WATTS L2: 156455
TOTAL WATTS L3: 154039
TOTAL WATTS: 465489
C.B. TYPE — TOTAL AMPS @ 100%: 561 AMPS
S=SHUNT TRIP G=GFCI — TOTAL AMPS @ 125%: 701 AMPS
L=LOCK ON C.B. H=HACR C.B.
AF=ARC FAULT — TOTAL PANEL RECPT LOAD = 0 WATTS

PANELBOARD: P4SBB1

BUS SIZE: 1000 AMPS — MAIN: MLO
VOLTAGE: 480 Y/277V 3PH,4W — NEUTRAL: 100%
SERVICE RATED: NO — LOCATION: ELECTRICAL B054
ISOLATED GND BUS: NO — MOUNTING: SURFACE
SHORT CIR. CURRENT RATING 65000 AMPS — TVSS: NO

DIRECTORY	WATTS OF LOAD			CKT BKR AMPS	POLES		CKT BKR AMPS	WATTS OF LOAD			DIRECTORY
	L1	L2	L3					L1	L2	L3	
	71473				1	2		150003			
PANEL P2SBB1		60134		600ET	3	4	600ET		150003		PANEL P4S1A1
VIA TRANS ST1			53950		5	6				150003	
	9422				7	8		9422			
PUMP HWP-1		9422		60	9	10	60		9422		PUMP HWP-2
(25HP)			9422		11	12				9422	(25HP)
	942				13	14		9422			
PUMP HWP-3		942		20	15	16	60		9422		ELEVATOR #1
(2HP)			942		17	18				9422	
	942				19	20		443			
PUMP HWP-4		942		20	21	22	20		443		BLOWER COIL BCU-A100
(2HP)			942		23	24				443	
	582				25	26					
COMB. AIR FAN CAF-1		582		20	27	28	50				SPARE
			582		29	30					
					31	32					
SPARE				30	33	34	20				SPARE
					35	36					
					37	38					
SPARE				20	39	40	20				SPARE
					41	42					
SUBTOTAL	83361	72022	65838					169290	169290	169290	SUBTOTAL

NOTES:
TOTAL WATTS L1: 252651
TOTAL WATTS L2: 241312
TOTAL WATTS L3: 235128
TOTAL WATTS: 729091
C.B. TYPE — TOTAL AMPS @ 100%: 878 AMPS
S=SHUNT TRIP G=GFCI — TOTAL AMPS @ 125%: 1097 AMPS
L=LOCK ON C.B. H=HACR C.B.
AF=ARC FAULT — TOTAL PANEL RECPT LOAD = 0 WATTS

PANELBOARD: P2SBB1

BUS SIZE: 600 AMPS — MAIN: 600 AMP MCB ELECTRONIC TRIP
VOLTAGE: 208 Y/120V 3PH,4W — NEUTRAL: 100%
SERVICE RATED: NO — LOCATION: ELECTRICAL B054
ISOLATED GND BUS: NO — MOUNTING: SURFACE
SHORT CIR. CURRENT RATING 22000 AMPS — TVSS: NO

DIRECTORY	WATTS OF LOAD			CKT BKR AMPS	POLES		CKT BKR AMPS	WATTS OF LOAD			DIRECTORY
	L1	L2	L3					L1	L2	L3	
	15674				1	2		13926			
PANEL K2S1A1		12763		225ET	3	4	225ET		11870		PANEL P2S1D2
(KITCHEN)			12319		5	6				12346	(CULINARY)
	8108				7	8		3180			
PANEL P2S1A1		5456		60	9	10	60		1720		PANEL P2S1B1
			6972		11	12				1776	
	8928				13	14		3140			
PANEL P2S1C1		7368		100	15	16	60		3840		PANEL P2S1D1
			6804		17	18				1884	
	2460				19	20		1164			
PANEL P2S1E1		1884		60	21	22	60		0		PANEL P2S2B1
			1584		23	24				0	
	1020				25	26		1020			
PANEL P2S2C1		1584		60	27	28	60		1896		PANEL P2S2D1
			720		29	30				1896	
	1020				31	32		11833			
PANEL P2S2E1		720		60	33	34	150		11033		PANEL P2SBB2
			720		35	36				6929	
					37	38					
SPARE				20	39	40	20				SPARE
					41	42					
SUBTOTAL	37210	29775	29119					34263	30359	24831	SUBTOTAL

NOTES:
TOTAL WATTS L1: 71473
TOTAL WATTS L2: 60134
TOTAL WATTS L3: 53950
TOTAL WATTS: 185557
C.B. TYPE — TOTAL AMPS @ 100%: 516 AMPS
S=SHUNT TRIP G=GFCI — TOTAL AMPS @ 125%: 645 AMPS
L=LOCK ON C.B. H=HACR C.B.
AF=ARC FAULT — TOTAL PANEL RECPT LOAD = 0 WATTS

PANELBOARD: K2S1A1

BUS SIZE: 225 AMPS — MAIN: MLO
VOLTAGE: 208 Y/120V 3PH,4W — NEUTRAL: 100%
SERVICE RATED: NO — LOCATION: CORRIDOR C104
ISOLATED GND BUS: NO — MOUNTING: SURFACE
SHORT CIR. CURRENT RATING 22000 AMPS — TVSS: NO

DIRECTORY	WATTS OF LOAD			CKT BKR AMPS	POLES		CKT BKR AMPS	WATTS OF LOAD			DIRECTORY
	L1	L2	L3					L1	L2	L3	
	709				1	2		1729			
COOLER CONDENSING UNIT #14A		709		20	3	4	20		1729		FREEZER COND. UNIT #14C
			709		5	6				1729	
	709				7	8		1729			
COOLER CONDENSING UNIT #14A		709		20	9	10	20		1729		FREEZER COND. UNIT #14C
			709		11	12				1729	
					13	14	20	1238			FREEZER EVAP COIL #14D
SPARE				20	15	16			1238		
					17	18	20			1238	FREEZER EVAP COIL #14D
REFRIGERATED GRAB-N-GO #82	1225			20	19	20		1238			
		1225			21	22	20				SPARE
REFRIGERATED GRAB-N-GO #82			1225	20	23	24					
	1225				25	26	20G	1300			WALK-IN COOLER LIGHTS #12
COOLER EVAP COIL #14B		240		20G	27	28	20G		1500		WALK-IN FREEZER LIGHTS #13A
COOLER EVAP COIL #14B			240	20G	29	30	20G			1500	WALK-IN FREEZ HEAT TRACE #13B
VENT. CONTROL SYSTEM #42	1500			20G	31	32	20G	1032			PASS-THRU REFRIGERATOR #56
FIRE SUPPRESSION SYSTEM #43		1500		20G	33	34	20G		984		REACH IN REFRIGERATOR #58
REFRIGERATED GRAB-N-GO #65			840	20G	35	36	20G			1200	CASHIER TERMINAL #85
REFRIGERATED GRAB-N-GO #65	840			20G	37	38	20G	1200			CASHIER TERMINAL #85
SPARE				20G	39	40	20G		1200		CASHIER TERMINAL #85
SPARE				20G	41	42	20G			1200	CASHIER TERMINAL #85
SPARE				20G	43	44	20G				SPARE
SPARE				20G	45	46	20G				SPARE
SPARE				20G	47	48	15G				SPARE
SPARE				20G	49	50	15G				SPARE
SPARE				20G	51	52	15G				SPARE
SPARE				20G	53	54	15G				SPARE
SUBTOTAL	6208	4383	3723					9466	8380	8596	SUBTOTAL

NOTES:
TOTAL WATTS L1: 15674
TOTAL WATTS L2: 12763
TOTAL WATTS L3: 12319
TOTAL WATTS: 40756
C.B. TYPE — TOTAL AMPS @ 100%: 113 AMPS
S=SHUNT TRIP G=GFCI — TOTAL AMPS @ 125%: 142 AMPS
L=LOCK ON C.B. H=HACR C.B.
AF=ARC FAULT — TOTAL PANEL RECPT LOAD = 0 WATTS

FUSED PANELBOARD: P4LSB1

BUS SIZE: 400 AMPS — MAIN: MLO — SURGE SUPPRESSION
VOLTAGE: 480 Y/277V 3PH,4W — NEUTRAL: 100%
SERVICE RATED: NO — LOCATION: EMERG ELEC B054B
ISOLATED GND BUS: NO — MOUNTING: SURFACE
SHORT CIR. CURRENT RATING 65000 AMPS — TVSS: YES

DIRECTORY	WATTS OF LOAD			FUSE AMPS	POLES		FUSE AMPS	WATTS OF LOAD			DIRECTORY
	L1	L2	L3					L1	L2	L3	
	20800				1	2		11363			
PANEL P2LSB1		20700		150	3	4	40		830		PANEL P4LS1A1
VIA TRANS TLS			16700		5	6				3489	
	3587				7	8		6786			
PANEL P4LS1B1		3288		40	9	10	40		2889		PANEL P4LS1C1
			246		11	12				2960	
	5032				13	14		3387			
PANEL P4LS1D1		994		40	15	16	40		1006		PANEL P4LS1E1
			1129		17	18				167	
	2880				19	20		2191			
PANEL P4LS2B1		2362		40	21	22	40		2362		PANEL P4LS2C1
			911		23	24				911	
	2648				25	26		3254			
PANEL P4LS2D1		886		40	27	28	40		0		PANEL P4LS2E1
			0		29	30				0	
	7482				31	32		7482			
ATRIUM EXH FAN SEF-1		7482		50	33	34	50		7482		ATRIUM EXH FAN SEF-2
			7482		35	36				7482	
	7482				37	38		942			
ATRIUM EXH FAN SEF-3		7482		50	39	40	20		942		ATRIUM MAKE-UP AIR FAN SSF-1
			7482		41	42				942	
	942				43	44					
ATRIUM MAKE-UP FAN SSF-2		942		20	45	46	20				SPARE
			942		47	48					
SPARE				20	49	50	20				SPARE
SPARE				20	51	52	20				SPARE
SPARE				20	53	54	20				SPARE
SUBTOTAL	50853	44136	34892					35405	15511	15951	SUBTOTAL

NOTES:
TOTAL WATTS L1: 86258
TOTAL WATTS L2: 59647
TOTAL WATTS L3: 50843
TOTAL WATTS: 196748
TOTAL AMPS @ 100%: 237 AMPS
TOTAL AMPS @ 125%: 296 AMPS
TOTAL PANEL RECPT LOAD = 0 WATTS

FUSED PANELBOARD: P2LSB1

BUS SIZE: 225 AMPS — MAIN: 225 AMP MF — SURGE SUPPRESSION
VOLTAGE: 208 Y/120V 3PH,4W — NEUTRAL: 100%
SERVICE RATED: NO — LOCATION: EMERG ELEC B054B
ISOLATED GND BUS: NO — MOUNTING: SURFACE
SHORT CIR. CURRENT RATING 22000 AMPS — TVSS: YES

DIRECTORY	WATTS OF LOAD			FUSE AMPS	POLES		FUSE AMPS	WATTS OF LOAD			DIRECTORY
	L1	L2	L3					L1	L2	L3	
	8000				1	2		10900			
CABINET RP1		8000		100	3	4	125		11200		PANEL P2LS1B1
VIA ATS			8000		5	6				8200	
SMCP - ELECTRICAL B054	1200			20	7	8	20	200			JUNCTION - MAG. HOLD - B051
FACP - ELECTRICAL B054		1500		20	9	10	20				SPARE
ELEVATOR #1 CAB LIGHTS - A214A			500	20	11	12	20				SPARE
ELEVATOR #2 CAB LIGHTS - A165	500			20	13	14	20				SPARE
SPARE				20	15	16	20				SPARE
SPARE				20	17	18	20				SPARE
SPARE				20	19	20	20				SPARE
SPARE				20	21	22	20				SPARE
SPARE				20	23	24	20				SPARE
SUBTOTAL	9700	9500	8500					11100	11200	8200	SUBTOTAL

NOTES:
TOTAL WATTS L1: 20800
TOTAL WATTS L2: 20700
TOTAL WATTS L3: 16700
TOTAL WATTS: 58200
TOTAL AMPS @ 100%: 162 AMPS
TOTAL AMPS @ 125%: 202 AMPS
TOTAL PANEL RECPT LOAD = 0 WATTS

PANELBOARD: P2SBB2

BUS SIZE: 150 AMPS — MAIN: MLO
VOLTAGE: 208 Y/120V 3PH,4W — NEUTRAL: 100%
SERVICE RATED: NO — LOCATION: ELECTRICAL B054
ISOLATED GND BUS: NO — MOUNTING: SURFACE
SHORT CIR. CURRENT RATING 22000 AMPS — TVSS: NO

DIRECTORY	WATTS OF LOAD			CKT BKR AMPS	POLES		CKT BKR AMPS	WATTS OF LOAD			DIRECTORY
	L1	L2	L3					L1	L2	L3	
	841				1	2		841			
BOILER B-1		841		20	3	4	20		841		BOILER B-2
			841		5	6				841	
	841				7	8		841			
BOILER B-3		841		20	9	10	20		841		BOILER B-4
			841		11	12				841	
	841				13	14		288			
BOILER B-5		841		20	15	16	20		288		PUMP PP-1
			841		17	18				288	
GENERATOR BLOCK HEATER	1500			20	19	20					
		1500			21	22	20				SPARE
SPARE				20	23	24					
					25	26	20	1500			GENERATOR BATTERY CHARGER
ACP - TELECOM B056		1200		20	27	28			1500		
POWER SUPPLY PS2 - CIRC B051			300	20	29	30	20			360	QUAD RECEP - TELECOM B056
HEATER CUH-1	500			20	31	32	20	360			QUAD RECEP - TELECOM B056
HEATERS PUH-1 & 2		600		20	33	34	20		360		QUAD RECEP - TELECOM B056
HEATERS PUH-3 & 4			600	20	35	36	20			360	QUAD RECEP - TELECOM B056
GENERATOR LIGHTS & RECEP	1500			20	37	38	20	1200			GEN LOAD BANK STRIP HEATER(S)
RECEP - ELECT ROOM B054		540		20	39	40	20		360		QUAD RECEP - TELECOM B056
PUMP PP-2			456	20	41	42	20			360	QUAD RECEP - TELECOM B056
WATER HEATER DWH-1	480			20	43	44	20	300			BAS PANEL - MECH B057
WATER HEATER DWH-2		480		20	45	46	20				SPARE
SPARE				20	47	48	20				SPARE
SPARE				20	49	50	20				SPARE
SPARE				20	51	52	20				SPARE
SPARE				20	53	54	20				SPARE
SUBTOTAL	6503	6843	3879					5330	4190	3050	SUBTOTAL

NOTES:
STANDBY POWER
TOTAL WATTS L1: 11833
TOTAL WATTS L2: 11033
TOTAL WATTS L3: 6929
TOTAL WATTS: 29795
C.B. TYPE — TOTAL AMPS @ 100%: 83 AMPS
S=SHUNT TRIP G=GFCI — TOTAL AMPS @ 125%: 104 AMPS
L=LOCK ON C.B. H=HACR C.B.
AF=ARC FAULT — TOTAL PANEL RECPT LOAD = 540 WATTS

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Sanford School Department and State of Maine Department of Education

SANFORD HIGH SCHOOL and TECHNICAL CENTER

SANFORD, ME 04073

NO.	DESCRIPTION	DATE

CONTENT:
PANELBOARD SCHEDULES

DRAWN BY: C. NEWELL
PROJECT NO: 12-067-00
DATE: 02/11/2016
REVISED:
SCALE: NO SCALE

E0.07

Project Phase
BID DOCUMENTS

FOR ADDITIONAL INFORMATION, REFER TO PROJECT MANUAL.

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DRAWING NOTES

1 THE FOLLOWING NOTES ONLY APPLY TO THIS DRAWING.

2 REFER TO GENERAL NOTES, ELECTRICAL TRADE NOTES, LEGEND AND ABBREVIATIONS ON DRAWING E0.01.

PANELBOARD: P4N1C2

BUS SIZE: 250 AMPS — MAIN: MLO
VOLTAGE: 480 Y/277V 3PH,4W — NEUTRAL: 100%
SERVICE RATED: NO — LOCATION: WELDING FABRICATION C138
ISOLATED GND BUS: NO — MOUNTING: SURFACE
SHORT CIR. CURRENT RATING 18000 AMPS — TVSS: NO

DIRECTORY	WATTS OF LOAD L1	L2	L3	CKT BKR AMPS	POLES	POLES	CKT BKR AMPS	WATTS OF LOAD L1	L2	L3	DIRECTORY
	18013				1	2		7482			
DUST COLLECTOR DC-C138		18013		125	3	4	50		7482		DUST COLLECTOR DC-C117
			18013		5	6				7482	
	831				7	8		3880			
DUST COLLECTOR DC-C134b		831		20	9	10	25		3880		DUST COLLECTOR DC-C134a
			831		11	12				3880	
	14411				13	14		14411			
DUST COLLECTOR DC-C127		14411		100	15	16	100		14411		AIR COMPRESSOR PAC-1
			14411		17	18				14411	
					19	20					
SPARE				60	21	22	50				SPARE
					23	24					
SPARE				20	25	26	20				SPARE
SPARE				20	27	28	20				SPARE
SPARE				20	29	30	20				SPARE
SUBTOTAL	33255	33255	33255					25773	25773	25773	SUBTOTAL

NOTES:
TOTAL WATTS L1: 59028
TOTAL WATTS L2: 59028
TOTAL WATTS L3: 59028
TOTAL WATTS: 177084
C.B. TYPE
TOTAL AMPS @ 100%: 213 AMPS
S=SHUNT TRIP G=GFCI — TOTAL AMPS @ 125%: 267 AMPS
L=LOCK ON C.B. H=HACR C.B.
AF=ARC FAULT — TOTAL PANEL RECPT LOAD = 0 WATTS

PANELBOARD: P2N1C6

BUS SIZE: 250 AMPS — MAIN: 250 AMP MCB
VOLTAGE: 208 Y/120V 3PH,4W — NEUTRAL: 100%
SERVICE RATED: NO — LOCATION: WELDING STORAGE C138D
ISOLATED GND BUS: NO — MOUNTING: SURFACE
SHORT CIR. CURRENT RATING 22000 AMPS — TVSS: NO

DIRECTORY	WATTS OF LOAD L1	L2	L3	CKT BKR AMPS	POLES	POLES	CKT BKR AMPS	WATTS OF LOAD L1	L2	L3	DIRECTORY
	1400				1	2		1400			
METAL SPINNING LATHE - C138		1400		20	3	4	20		1400		METAL SAW - C138
			1400		5	6				1400	
					7	8					
SPARE				30	9	10	20				SPARE
					11	12					
DROP CORD - WELDING FAB C138	360			20G	13	14	20	1248			HYDRAUL. METAL WORKER - C138
DROP CORD - WELDING FAB C138		360		20G	15	16			1248		
DROP CORD - WELDING FAB C138			360	20G	17	18	20				SPARE
DROP CORD - WELDING FAB C138	360			20G	19	20					
DROP CORD - WELDING FAB C138		360		20G	21	22	20				SPARE
DROP CORD - WELDING FAB C138			360	20G	23	24					
PED. GRINDER BUS DROP C138	1000			20	25	26	20	540			RECEP - LOCKERS C138B
PED. GRINDER BUS DROP C138		1000		20	27	28	20		900		RECEP - WELDING FAB C138
IWB RECEP - CLASSROOM C138A			300	20	29	30	20			1000	BAND SAW BUS DROP C138
RECEP - CLASSROOM C138A	720			20	31	32	20	600			WELDING BOOTH RECEPT - C138
RECEP - CLASSROOM C138A		720		20	33	34	20		600		WELDING BOOTH RECEPT - C138
RECEP - WELD. STORAGE C138D			900	20	35	36	20			600	WELDING BOOTH RECEPT - C138
WELDING BOOTH RECEPT - C138	600			20	37	38	20	600			WELDING BOOTH RECEPT - C138
WELDING BOOTH RECEPT - C138		600		20	39	40	20		600		WELDING BOOTH RECEPT - C138
WELDING BOOTH RECEPT - C138			600	20	41	42	20			600	WELDING BOOTH RECEPT - C138
WELDING BOOTH RECEPT - C138	600			20	43	44	20	600			WELDING BOOTH RECEPT - C138
WELDING BOOTH RECEPT - C138		600		20	45	46	20		600		WELDING BOOTH RECEPT - C138
WELDING BOOTH RECEPT - C138			600	20	47	48	20			600	WELDING BOOTH RECEPT - C138
WELDING BOOTH RECEPT - C138	600			20	49	50	20	600			WELDING BOOTH RECEPT - C138
WELDING BOOTH RECEPT - C138		600		20	51	52	20		600		WELDING BOOTH RECEPT - C138
WELDING BOOTH RECEPT - C138			600	20	53	54	20			600	WELDING BOOTH RECEPT - C138
RECEPT - OFFICE C136	720			20	55	56	20	1000			DISC SANDER BUS DROP C138
DUST COLLECTION FIRE PANEL		300		20	57	58	20		864		OVERHEAD DOOR C138
HEAT TRACE - OFFICE C136			400	20	59	60	20			1000	DRILL PRESS BUS DROP C138
SPARE				20	61	62	20	1000			DRILL PRESS BUS DROP C138
SPARE				20	63	64	20				SPARE
SPARE				20	65	66	20				SPARE
SPARE				20	67	68	20				SPARE
SPARE				20	69	70	20				SPARE
SPARE				20	71	72	20				SPARE
SUBTOTAL	6360	5940	5520					7588	6812	5800	SUBTOTAL

NOTES:
TOTAL WATTS L1: 13948
TOTAL WATTS L2: 12752
TOTAL WATTS L3: 11320
TOTAL WATTS: 38020
C.B. TYPE
TOTAL AMPS @ 100%: 106 AMPS
S=SHUNT TRIP G=GFCI — TOTAL AMPS @ 125%: 132 AMPS
L=LOCK ON C.B. H=HACR C.B.
AF=ARC FAULT — TOTAL PANEL RECPT LOAD = 19260 WATTS

PANELBOARD: M2NBB1

BUS SIZE: 150 AMPS — MAIN: 150 AMP MCB
VOLTAGE: 208 Y/120V 3PH,4W — NEUTRAL: 100%
SERVICE RATED: NO — LOCATION: ELECTRICAL B054
ISOLATED GND BUS: NO — MOUNTING: SURFACE
SHORT CIR. CURRENT RATING 22000 AMPS — TVSS: NO

DIRECTORY	WATTS OF LOAD L1	L2	L3	CKT BKR AMPS	POLES	POLES	CKT BKR AMPS	WATTS OF LOAD L1	L2	L3	DIRECTORY
					1	2		260			
SPARE				20	3	4	30		360		PANEL P2NOB1
					5	6				360	(OUT BUILDING)
					7	8					
SPARE				20	9	10	20				SPARE
					11	12					
					13	14					
SPARE				20	15	16	20				SPARE
					17	18					
					19	20					
SPARE				20	21	22	20				SPARE
					23	24					
FANS EF-B054/B054B	744			20	25	26	20	720			RECEP - MAINTENANCE B052
FAN EF-B052		528		20	27	28	20		720		RECEP - CUST OFFICE B055
RECEP - BLDG STORAGE B058			720	20	29	30	20			900	RECEP - SPRINKLER RM B053
SPARE				20	31	32	20	720			RECEP - MECHANICAL B057
SPARE				20	33	34	20		720		RECEP - MECHANICAL B057
SPARE				20	35	36	20			540	RECEP - MAINTENANCE B052
SPARE				20	37	38	20				SPARE
SPARE				20	39	40	20				SPARE
SPARE				20	41	42	20				SPARE
SUBTOTAL	744	528	720					1700	1800	1800	SUBTOTAL

NOTES:
TOTAL WATTS L1: 2444
TOTAL WATTS L2: 2328
TOTAL WATTS L3: 2520
TOTAL WATTS: 7292
C.B. TYPE
TOTAL AMPS @ 100%: 20 AMPS
S=SHUNT TRIP G=GFCI — TOTAL AMPS @ 125%: 25 AMPS
L=LOCK ON C.B. H=HACR C.B.
AF=ARC FAULT — TOTAL PANEL RECPT LOAD = 5040 WATTS

PANELBOARD: P2N1C8A

BUS SIZE: 150 AMPS — MAIN: MLO
VOLTAGE: 208 Y/120V 3PH,4W — NEUTRAL: 100%
SERVICE RATED: NO — LOCATION: PREC. MANUFACTURING C134
ISOLATED GND BUS: NO — MOUNTING: SURFACE
SHORT CIR. CURRENT RATING 22000 AMPS — TVSS: NO

DIRECTORY	WATTS OF LOAD L1	L2	L3	CKT BKR AMPS	POLES	POLES	CKT BKR AMPS	WATTS OF LOAD L1	L2	L3	DIRECTORY
SURFACE GRINDER - C134	1200			20	1	2		1200			
		1200			3	4	20		1200		EDM WIRE MACHINE - C134
CYLINDRICAL GRINDER - C134			1200	20	5	6				1200	
	1200				7	8	20				SPARE
PEDESTAL GRINDER - C134		1000		20	9	10					
PEDESTAL GRINDER - C134			1000	20	11	12	20				SPARE
PEDESTAL GRINDER - C134	1000			20	13	14					
PEDESTAL GRINDER - C134		1000		20	15	16	20		540		RECEP - STORAGE C134B
PEDESTAL GRINDER - C134			1000	20	17	18	20			720	RECEP - OFFICE C132
PEDESTAL GRINDER - C134	1000			20	19	20	20	1000			BENCH DRILL PRESS - C134
RAD. ARM DRILL BUS DROP - C134		1000		20	21	22	20		1000		DISC SANDER - C134
BAND SAW - C134			1000	20	23	24	20			1000	BAND SAW - C134
RECEP - INSPECTION C134C	540			20	25	26	20	300			IWB RECEP - INSTRUCTION C134A
CNTR RECEP - INSPECT. C134C		1000		20	27	28	20		540		RECEP - INSTRUCTION C134A
CNTR RECEP - INSPECT. C134C			1000	20	29	30	20			540	RECEP - INSTRUCTION C134A
DROP CORDS - PREC MAN C134	360			20G	31	32	20	720			RECEP - PREC MANUFACT C134
DROP CORDS - PREC MAN C134		360		20G	33	34	20		720		RECEP - PREC MANUFACT C134
RECEP - PREC MANUFACT C134			180	20	35	36	20			1000	METAL SAW - C134
DUST COLLECTION FIRE PANEL	300			20	37	38	20	1000			FURNACE - C134
HEAT TRACE - PREC. MANUF. C134		400		20	39	40	20		360		CNTR REC - INSPECTION C134C
SPARE				20	41	42	20			1200	CNC RECEP - INSPECTION C134C
SPARE				20	43	44	20	1200			CNC RECEP - INSPECTION C134C
SPARE				20	45	46	20				SPARE
SPARE				20	47	48	20				SPARE
SPARE				20	49	50	20				SPARE
SPARE				20	51	52	20				SPARE
SPARE				20	53	54	20				SPARE
SUBTOTAL	5600	5960	5380					5420	4360	5660	SUBTOTAL

NOTES:
TOTAL WATTS L1: 11020
TOTAL WATTS L2: 10320
TOTAL WATTS L3: 11040
TOTAL WATTS: 32380
C.B. TYPE
TOTAL AMPS @ 100%: 90 AMPS
S=SHUNT TRIP G=GFCI — TOTAL AMPS @ 125%: 112 AMPS
L=LOCK ON C.B. H=HACR C.B.
AF=ARC FAULT — TOTAL PANEL RECPT LOAD = 7580 WATTS

PANELBOARD: L4N1B1

BUS SIZE: 125 AMPS — MAIN: MLO
VOLTAGE: 480 Y/277V 3PH,4W — NEUTRAL: 100%
SERVICE RATED: NO — LOCATION: ELEC A193
ISOLATED GND BUS: NO — MOUNTING: SURFACE
SHORT CIR. CURRENT RATING 18000 AMPS — TVSS: NO

DIRECTORY	WATTS OF LOAD L1	L2	L3	CKT BKR AMPS	POLES	POLES	CKT BKR AMPS	WATTS OF LOAD L1	L2	L3	DIRECTORY
					1	2	20	486			LTG - EXTERIOR BUILDING B
SPARE				20	3	4	20		3985		LTG - OFFICE (2) B130
					5	6	20			430	LTG - STAIR B
LTG - MECH B057	1912			20	7	8	20	223			LTG - EXTERIOR BUILDING A1,F1
LTG - VIDEO PROD B101		2181		20	9	10	20				SPARE
LTG - FINE ART STUDIO B127			2832	20	11	12	20				SPARE
LTG - ART & COMM 1ST LEVEL B120	789			20	13	14	20				SPARE
SPARE				20	15	16	20				SPARE
SPARE				20	17	18	20				SPARE
SPARE				20	19	20	20				SPARE
SPARE				20	21	22	20				SPARE
SPARE				20	23	24	20				SPARE
SUBTOTAL	2701	2181	2832					709	3985	430	SUBTOTAL

NOTES:
TOTAL WATTS L1: 3410
TOTAL WATTS L2: 6166
TOTAL WATTS L3: 3262
TOTAL WATTS: 12838
C.B. TYPE
TOTAL AMPS @ 100%: 15 AMPS
S=SHUNT TRIP G=GFCI — TOTAL AMPS @ 125%: 19 AMPS
L=LOCK ON C.B. H=HACR C.B.
AF=ARC FAULT — TOTAL PANEL RECPT LOAD = 0 WATTS

PANELBOARD: D2N1B1

BUS SIZE: 800 AMPS — MAIN: 800 AMP MCB ELECTRONIC TRIP
VOLTAGE: 208 Y/120V 3PH,4W — NEUTRAL: 100%
SERVICE RATED: NO — LOCATION: ELEC A193
ISOLATED GND BUS: NO — MOUNTING: SURFACE
SHORT CIR. CURRENT RATING 22000 AMPS — TVSS: NO

DIRECTORY	WATTS OF LOAD L1	L2	L3	CKT BKR AMPS	POLES	POLES	CKT BKR AMPS	WATTS OF LOAD L1	L2	L3	DIRECTORY
	27241				1	2		19806			
PANEL K2N1A1		25033		400ET	3	4	225ET		16796		PANEL K2N1A2
			26328		5	6				16580	
	17620				7	8		9305			
PANEL P2N1B1		16380		225	9	10	125		8260		PANEL P2N1B2
			17340		11	12				10080	
	8040				13	14		6660			
PANEL P2N1B3		7315		125	15	16	125		6960		PANEL P2N1B4
			6060		17	18				5760	
					19	20					
SPARE				125	21	22	80				SPARE
					23	24					
					25	26					
SPARE				50	27	28	30				SPARE
					29	30					
SUBTOTAL	52901	48728	49728					35771	32016	32420	SUBTOTAL

NOTES:
TOTAL WATTS L1: 88672
TOTAL WATTS L2: 80744
TOTAL WATTS L3: 82148
TOTAL WATTS: 251564
C.B. TYPE
TOTAL AMPS @ 100%: 699 AMPS
S=SHUNT TRIP G=GFCI — TOTAL AMPS @ 125%: 874 AMPS
L=LOCK ON C.B. H=HACR C.B.
AF=ARC FAULT — TOTAL PANEL RECPT LOAD = 0 WATTS

PANELBOARD: P2N1B1

BUS SIZE: 225 AMPS — MAIN: MLO
VOLTAGE: 208 Y/120V 3PH,4W — NEUTRAL: 100%
SERVICE RATED: NO — LOCATION: ELEC A193
ISOLATED GND BUS: NO — MOUNTING: SURFACE
SHORT CIR. CURRENT RATING 22000 AMPS — TVSS: NO

DIRECTORY	WATTS OF LOAD L1	L2	L3	CKT BKR AMPS	POLES	POLES	CKT BKR AMPS	WATTS OF LOAD L1	L2	L3	DIRECTORY
	3600				1	2		3600			
KILN #1 - KILN B149		3600		50	3	4	50		3600		KILN #2 - KILN B149
			3600		5	6				3600	
GFCI RECEP - POTTERY B147	1000			20	7	8	20	300			IWB RECEP - POTTERY B147
GFCI RECEP - POTTERY B147		1000		20	9	10	20		540		RECEP - POTTERY B147
GFCI RECEP - POTTERY B147			1000	20	11	12	20			540	RECEP - POTTERY B147
GFCI RECEP - POTTERY B147	1000			20	13	14	20	540			RECEP - POTTERY B147
GFCI RECEP - POTTERY B147		1000		20	15	16	20		720		RECEP - KILN B149
GFCI RECEP - POTTERY B147			1000	20	17	18	20			1080	DROP CORDS - POTTERY B147
GFCI RECEP - POTTERY B147	1000			20	19	20	20	720			RECEP - A&C LIBRARY B120A
GFCI RECEP - POTTERY B147		1000		20	21	22	20		300		LCD - A&C LIBRARY B120A
GFCI RECEP - POTTERY B147			1000	20	23	24	20			300	IWB RECEP - CLASSROOM B143B
GFCI RECEP - POTTERY B147	1000			20	25	26	20	720			RECEP - CLASSROOM B143B
IWB RECEP - CLASSROOM B143A		300		20	27	28	20		720		RECEP - CLASSROOM B143B
RECEP - CLASSROOM B143A			720	20	29	30	20			720	RECEP DESK - CLASSRM B143B
RECEP - CLASSROOM B143A	720			20	31	32	20	720			RECEP DESK - CLASSRM B143B
RECEP DESK - CLASSRM B143A		720		20	33	34	20		720		RECEP DESK - CLASSRM B143B
RECEP DESK - CLASSRM B143A			720	20	35	36	20			720	RECEP DESK - CLASSRM B143B
RECEP DESK - CLASSRM B143A	720			20	37	38	20	720			RECEP DESK - CLASSRM B143B
RECEP DESK - CLASSRM B143A		720		20	39	40	20		720		RECEP DESK - CLASSRM B143B
RECEP DESK - CLASSRM B143A			720	20	41	42	20			1260	RECEP - CORRIDOR
RECEP DESK - CLASSRM B143A	720			20	43	44	20	540			RECEP - ELECT ROOM A193
FLOOR BOX A1 - LIBRARY B120A		360		20	45	46	20		360		FLOOR BOX A1 - LIBRARY B120A
FLOOR BOX A1 - LIBRARY B120A			360	20	47	48	20				SPARE
SPARE				20	49	50	20				SPARE
SPARE				20	51	52	20				SPARE
SPARE				20	53	54	20				SPARE
SUBTOTAL	9760	8700	9120					7860	7680	8220	SUBTOTAL

NOTES:
TOTAL WATTS L1: 17620
TOTAL WATTS L2: 16380
TOTAL WATTS L3: 17340
TOTAL WATTS: 51340
C.B. TYPE
TOTAL AMPS @ 100%: 143 AMPS
S=SHUNT TRIP G=GFCI — TOTAL AMPS @ 125%: 178 AMPS
L=LOCK ON C.B. H=HACR C.B.
AF=ARC FAULT — TOTAL PANEL RECPT LOAD = 18540 WATTS

PANELBOARD: P2N1B2

BUS SIZE: 125 AMPS — MAIN: MLO
VOLTAGE: 208 Y/120V 3PH,4W — NEUTRAL: 100%
SERVICE RATED: NO — LOCATION: ELEC A193
ISOLATED GND BUS: NO — MOUNTING: SURFACE
SHORT CIR. CURRENT RATING 22000 AMPS — TVSS: NO

DIRECTORY	WATTS OF LOAD L1	L2	L3	CKT BKR AMPS	POLES	POLES	CKT BKR AMPS	WATTS OF LOAD L1	L2	L3	DIRECTORY
IWB RECEP - FINE ARTS B141	300			20	1	2					
RECEP - FINE ARTS B141		540		20	3	4	20				SPARE
RECEP - FINE ARTS B141			720	20	5	6					
RECEP - FINE ARTS B141	540			20	7	8	20	300			TRACK LIGHTING - B127
CNTR RECEP - FINE ARTS B141		360		20	9	10	20		300		TRACK LIGHTING - B141
DROP CORDS - FINE ARTS B141			1080	20	11	12	20			120	TRACK LIGHTING - B147
PAPER CUTTER - FINE ARTS B141	1500			20	13	14	20	105			TRACK LIGHTING - B147
RECEP - OFFICE B139		720		20	15	16	20		1500		BELT DRYER - GRAPHICS B112
RECEP - STORAGE B141A			720	20	17	18	20			1500	PAPER CUTTER - GRAPHICS B112
RECEP - STORAGE B127A	720			20	19	20	20	200			TRACK LIGHTING - LIBRARY B120A
IWB RECEP - FINE ARTS B127		300		20	21	22	20		320		LTG - DISPLAY B120A
RECEP - FINE ARTS B127			360	20	23	24	20			540	RECEP - PRINT/WORK RM B112A
RECEP - FINE ARTS B127	540			20	25	26	20	540			RECEP - PRINT/WORK RM B112A
RECEP - FINE ARTS B127		360		20	27	28	20		360		RECEP - PRINT/WORK RM B112A
RECEP - FINE ARTS B127			360	20	29	30	20			1500	VINYL PLOTTER - B112A
CNTR RECEP - FINE ARTS B127	360			20	31	32	20	1500			PLOTTER - WORK ROOM B112A
DROP CORDS - FINE ARTS B127		1080		20	33	34	20		300		IWB RECEP - GRAPHICS B112
RECEP - OFFICE B113			720	20	35	36	20			540	RECEP - GRAPHICS B112
RECEP - STORAGE B115	720			20	37	38	20	540			RECEP - GRAPHICS B112
FLOOR BOX A2 - GRAPHICS B112		360		20	39	40	20		1000		PRINT TABLE - GRAPHICS B112
FLOOR BOX A2 - GRAPHICS B112			360	20	41	42	20			1200	SPRAY BOOTH - GRAPHICS B112
FLOOR BOX A2 - GRAPHICS B112	360			20	43	44	20	720			RECEP - GRAPHICS B112
FLOOR BOX A2 - GRAPHICS B112		360		20	45	46	20		400		JUNCTION - DAMPERS - B120
FLOOR BOX A2 - GRAPHICS B112			360	20	47	48	20				SPARE
FLOOR BOX A2 - GRAPHICS B112	360			20	49	50	20				SPARE
SPARE				20	51	52	20				SPARE
SPARE				20	53	54	20				SPARE
SUBTOTAL	5400	4080	4680					3905	4180	5400	SUBTOTAL

NOTES:
TOTAL WATTS L1: 9305
TOTAL WATTS L2: 8260
TOTAL WATTS L3: 10080
TOTAL WATTS: 27645
C.B. TYPE
TOTAL AMPS @ 100%: 77 AMPS
S=SHUNT TRIP G=GFCI — TOTAL AMPS @ 125%: 96 AMPS
L=LOCK ON C.B. H=HACR C.B.
AF=ARC FAULT — TOTAL PANEL RECPT LOAD = 13140 WATTS

PANELBOARD: P2N1B3

BUS SIZE: 125 AMPS — MAIN: MLO
VOLTAGE: 208 Y/120V 3PH,4W — NEUTRAL: 100%
SERVICE RATED: NO — LOCATION: ELEC A193
ISOLATED GND BUS: NO — MOUNTING: SURFACE
SHORT CIR. CURRENT RATING 22000 AMPS — TVSS: NO

DIRECTORY	WATTS OF LOAD L1	L2	L3	CKT BKR AMPS	POLES	POLES	CKT BKR AMPS	WATTS OF LOAD L1	L2	L3	DIRECTORY
RECEP - LTG STUDIO B114	360			20	1	2	20	720			RECEP - OFFICE B102
RECEP - LTG STUDIO B114		720		20	3	4	20		360		RECEP - EDITING B103A
RECEP - PRODUCT STUDIO B105			540	20	5	6	20			360	RECEP - EDITING B103A
RECEP - PRODUCT STUDIO B105	540			20	7	8	20	540			RECEP - EDITING B103A
RECEP - PRODUCT STUDIO B105		540		20	9	10	20		360		QUAD RECEP - CONTROL RM B103
RECEP - PRODUCT STUDIO B105			540	20	11	12	20			360	QUAD RECEP - CONTROL RM B103
RECEP - SHARED OFFICE B107	360			20	13	14	20	360			QUAD RECEP - CONTROL RM B103
QUAD RECEP - OFFICE B107		360		20	15	16	20		360		QUAD RECEP - CONTROL RM B103
QUAD RECEP - OFFICE B107			360	20	17	18	20			360	QUAD RECEP - CONTROL RM B103
QUAD RECEP - SERVER B107A	360			20	19	20	20	360			QUAD RECEP - CONTROL RM B103
QUAD RECEP - SERVER B107A		360		20	21	22	20		360		AV QUAD RECEP - CONT RM B103
IWB RECEP - VIDEO PROD B101			300	20	23	24	20			360	AV QUAD RECEP - CONT RM B103
RECEP - VIDEO PROD LAB B101	720			20	25	26	20	360			AV QUAD RECEP - CONT RM B103
RECEP - VIDEO PROD LAB B101		720		20	27	28	20		360		AV QUAD RECEP - CONT RM B103
RECEP - VIDEO PROD LAB B101			540	20	29	30	20			360	AV QUAD RECEP - VIDEO LAB B101
LCD - VIDEO PROD LAB B101	300			20	31	32	20	900			RECEP - CORRIDOR
RECEP DESK - VIDEO PROD B101		540		20	33	34	20		600		LCD (2) - CORRIDOR
RECEP DESK - VIDEO PROD B101			540	20	35	36	20			540	AV WALL BOX RECEP - AREA A121A
RECEP DESK - VIDEO PROD B101	540			20	37	38	20	720			RECEP (STEP) S1 FLOOR BOX
RECEP DESK - VIDEO PROD B101		540		20	39	40	20		720		RECEP (STEP) S1 FLOOR BOX
RECEP DESK - VIDEO PROD B101			540	20	41	42	20			360	DROP CORD - DESIGN B112
RECEP DESK - VIDEO PROD B101	540			20	43	44	20	360			DROP CORD - DESIGN B112
FLOOR BOX A1 - PRESENT. A121A		360		20	45	46	20		55		LTG - SPOT LIGHT - A121A
SPARE				20	47	48	20				SPARE
SPARE				20	49	50	20				SPARE
SPARE				20	51	52	20				SPARE
SPARE				20	53	54	20				SPARE
SUBTOTAL	3720	4140	3360					4320	3175	2700	SUBTOTAL

NOTES:
TOTAL WATTS L1: 8040
TOTAL WATTS L2: 7315
TOTAL WATTS L3: 6060
TOTAL WATTS: 21415
C.B. TYPE
TOTAL AMPS @ 100%: 60 AMPS
S=SHUNT TRIP G=GFCI — TOTAL AMPS @ 125%: 74 AMPS
L=LOCK ON C.B. H=HACR C.B.
AF=ARC FAULT — TOTAL PANEL RECPT LOAD = 18360 WATTS

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Sanford School Department and State of Maine Department of Education

SANFORD HIGH SCHOOL and TECHNICAL CENTER

SANFORD, ME 04073

NO.	DESCRIPTION	DATE

CONTENT:
PANELBOARD SCHEDULES

DRAWN BY: C. NEWELL
PROJECT NO: 12-067-00
DATE: 02/11/2016
REVISED:
SCALE: NO SCALE

E0.08

Project Phase
BID DOCUMENTS

FOR ADDITIONAL INFORMATION, REFER TO PROJECT MANUAL.

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DRAWING NOTES

1. THE FOLLOWING NOTES ONLY APPLY TO THIS DRAWING.
2. REFER TO GENERAL NOTES, ELECTRICAL TRADE NOTES, LEGEND AND ABBREVIATIONS ON DRAWING E0.01.

PANELBOARD: K2N1A1

BUS SIZE: 400 AMPS — MAIN: MLO
VOLTAGE: 208 Y/120V 3PH,4W — NEUTRAL: 100%
SERVICE RATED: NO — LOCATION: CORRIDOR C104
ISOLATED GND BUS: NO — MOUNTING: SURFACE
SHORT CIR. CURRENT RATING 22000 AMPS — TVSS: NO

DIRECTORY	L1	L2	L3	CKT BKR AMPS	POLES	POLES	CKT BKR AMPS	L1	L2	L3	DIRECTORY
	3002				1	2		15732			
UTILITY DISTRIBUTION SYSTEM		3002		50	3	4	150		15732		WAREWASHER #94
#44			3002		5	6				15732	
	1201				7	8		793			
SIXTY-QUART MIXER #28		1201		20	9	10	20		793		DISPOSER #92
			1201		11	12				793	
					13	14					
SPARE				20	15	16	20				SPARE
					17	18					
SNEEZE GUARD W/HEAT LAMPS	865			20	19	20	20				SPARE
#75		865			21	22					
SPARE				20	23	24	30			2400	STACKED DRYER #5B
					25	26		2400			
HOT WELLS #67		2000		30	27	28	30				SPARE
			2000		29	30					
RECEP - CORRIDOR C104	720			20	31	32	20	800			HEAT TRACE - CUSTODIAL C104D
RECEP - OFFICE C108		720		20	33	34	20		720		RECEP - SERVERY C100
RECEP - SERVERY C100			540	20	35	36	20			660	RECEP/ETP - DRY STORAGE C106
OVERHEAD DOOR - WASH C102A	864			20	37	38	20	864			OVERHEAD DOOR - C100
SPARE				20G	39	40	20G				SPARE
SPARE				20G	41	42	20G				SPARE
SPARE				20G	43	44	20G				SPARE
SPARE				20G	45	46	20G				SPARE
SPARE				20G	47	48	15G				SPARE
SPARE				20G	49	50	15G				SPARE
SPARE				20G	51	52	15G				SPARE
SPARE				20G	53	54	15G				SPARE
SUBTOTAL	6652	7788	6743					20589	17245	19585	SUBTOTAL

NOTES:
TOTAL WATTS L1: 27241
TOTAL WATTS L2: 25033
TOTAL WATTS L3: 26328
TOTAL WATTS: 78602
C.B. TYPE — TOTAL AMPS @ 100%: 218 AMPS
S=SHUNT TRIP G=GFCI — TOTAL AMPS @ 125%: 273 AMPS
L=LOCK ON C.B. H=HACR C.B.
AF=ARC FAULT — TOTAL PANEL RECPT LOAD = 2700 WATTS

PANELBOARD: K2N1A2

BUS SIZE: 225 AMPS — MAIN: MLO
VOLTAGE: 208 Y/120V 3PH,4W — NEUTRAL: 100%
SERVICE RATED: NO — LOCATION: CORRIDOR C104
ISOLATED GND BUS: NO — MOUNTING: SURFACE
SHORT CIR. CURRENT RATING 22000 AMPS — TVSS: NO

DIRECTORY	L1	L2	L3	CKT BKR AMPS	POLES	POLES	CKT BKR AMPS	L1	L2	L3	DIRECTORY
					1	2	20G	1800			STACKED WASHER #5A
SPARE				20	3	4	20G		960		TWENTY-QUART MIXER #25
					5	6	20G			1500	COUNTER GFCI RECEP CKT #16
SPARE				20	7	8	20G	1500			COUNTER GFCI RECEP CKT #16
					9	10	20G		1500		COUNTER GFCI RECEP CKT #31
MICROWAVE OVEN #32			1500	20G	11	12	20G			1500	COUNTER GFCI RECEP CKT #31
MOBILE HOT FOOD CABINETS #57	1650			20G	13	14	20G	1500			COOK'S TABLE GFCI REC CKT #47
MOBILE HOT FOOD CABINETS #57		1650		20G	15	16	20G		1500		COOK'S TABLE GFCI REC CKT #47
MOBILE HOT FOOD CABINETS #57			1650	20G	17	18	20G			1500	COUNTER GFCI RECEP CKT #50
POWER DROP CORD #62	1500			20G	19	20	20G	1500			COUNTER GFCI RECEP CKT #50
SOUP WELLS #70		830		20G	21	22	20G		1500		WORK TABLE GFCI REC CKT #52
SOUP WELLS #70			830	20G	23	24	20G			1500	WORK TABLE GFCI REC CKT #52
PIZZA COUNTER GFCI REC CKT#73	1500			20G	25	26	20G	1500			WORK TABLE GFCI REC CKT #52
PIZZA COUNTER GFCI REC CKT#73		1500		20G	27	28	20G		1500		WORK TABLE GFCI REC CKT #52
PIZZA COUNTER GFCI REC CKT#73			1500	20G	29	30	20G			1500	COUNTER GFCI RECEP CKT #59
PIZZA COUNTER GFCI REC CKT#73	1500			20G	31	32	20G	1500			COUNTER GFCI RECEP CKT #59
PIZZA COUNTER GFCI REC CKT#73		1500		20G	33	34	20G		1500		COUNTER GFCI RECEP CKT #59
AUTOMATIC SLICER #27			600	20G	35	36	20G			1500	COUNTER GFCI RECEP CKT #66
HEATED SANDWICH SLIDE #76	1356			20G	37	38	20G	1500			COUNTER GFCI RECEP CKT #66
HEATED SANDWICH SLIDE #76		1356		20G	39	40	20G		1500		COUNTER GFCI RECEP CKT #66
SPARE				20G	41	42	20G			1500	SALAD BAR GFCI RECEP CKT #79
SPARE				20G	43	44	20G	1500			SALAD BAR GFCI RECEP CKT #79
SPARE				20G	45	46	20G				SPARE
SPARE				15G	47	48	15G				SPARE
SPARE				15G	49	50	15G				SPARE
SPARE				15G	51	52	15G				SPARE
SPARE				15G	53	54	15G				SPARE
SUBTOTAL	7506	6836	6080					12300	9960	10500	SUBTOTAL

NOTES:
TOTAL WATTS L1: 19806
TOTAL WATTS L2: 16796
TOTAL WATTS L3: 16580
TOTAL WATTS: 53182
C.B. TYPE — TOTAL AMPS @ 100%: 148 AMPS
S=SHUNT TRIP G=GFCI — TOTAL AMPS @ 125%: 185 AMPS
L=LOCK ON C.B. H=HACR C.B.
AF=ARC FAULT — TOTAL PANEL RECPT LOAD = 1500 WATTS

PANELBOARD: L4N1C1

BUS SIZE: 125 AMPS — MAIN: MLO
VOLTAGE: 480 Y/277V 3PH,4W — NEUTRAL: 100%
SERVICE RATED: NO — LOCATION: ELEC C114B
ISOLATED GND BUS: NO — MOUNTING: SURFACE
SHORT CIR. CURRENT RATING 18000 AMPS — TVSS: NO

DIRECTORY	L1	L2	L3	CKT BKR AMPS	POLES	POLES	CKT BKR AMPS	L1	L2	L3	DIRECTORY
LTG - ROBOTICES C105	2268			20	1	2	20	466			LTG - CORRIDOR C111
LTG - DINING A151		2364		20	3	4	20		1689		LTG - STORAGE C106
LTG - DINING A151			2064	20	5	6	20			766	LTG - EXTERIOR BUILDING C
LTG - DINING A151	2564			20	7	8	20	2567			LTG - BLDG TRADES C127
LTG - DATA C114A		3446		20	9	10	20		2642		LTG - CTE STUDIO C117
LTG - STAIR C			274	20	11	12	20			1999	LTG - ST LIBRARY C120A
LTG - WELDING C138	2347			20	13	14	20	4202			LTG - AUTO TECH C133
LTG - PRECISION MANUF C134		2709		20	15	16	20				SPARE
SPARE				20	17	18	20				SPARE
SPARE				20	19	20	20				SPARE
SPARE				20	21	22	20				SPARE
SPARE				20	23	24	20				SPARE
SUBTOTAL	7179	8519	2338					7235	4331	2765	SUBTOTAL

NOTES:
TOTAL WATTS L1: 14414
TOTAL WATTS L2: 12850
TOTAL WATTS L3: 5103
TOTAL WATTS: 32367
C.B. TYPE — TOTAL AMPS @ 100%: 39 AMPS
S=SHUNT TRIP G=GFCI — TOTAL AMPS @ 125%: 49 AMPS
L=LOCK ON C.B. H=HACR C.B.
AF=ARC FAULT — TOTAL PANEL RECPT LOAD = 0 WATTS

PANELBOARD: D2N1C1

BUS SIZE: 1200 AMPS — MAIN: 1200 AMP MCB ELECTRONIC TRIP
VOLTAGE: 208 Y/120V 3PH,4W — NEUTRAL: 100%
SERVICE RATED: NO — LOCATION: ELEC C114B
ISOLATED GND BUS: NO — MOUNTING: SURFACE
SHORT CIR. CURRENT RATING 22000 AMPS — TVSS: NO

DIRECTORY	L1	L2	L3	CKT BKR AMPS	POLES	POLES	CKT BKR AMPS	L1	L2	L3	DIRECTORY
	12174				1	2		14292			
PANEL P2N1C4		10205		225ET	3	4	225ET		13028		PANEL P2N1C5
			8949		5	6				14090	
	39421				7	8		25183			
PANEL P2N1C8		38621		400ET	9	10	225ET		25775		PANEL P2N1C7
			41405		11	12				20816	
	9360				13	14		13442			
PANEL P2N1C10		9060		225ET	15	16	225ET		14036		PANEL P2N1C9
			6960		17	18				13316	
	9020				19	20					
PANEL P2N1C1		9040		125	21	22	225ET				SPARE
			8080		23	24					
	14465				25	26		8342			
PANEL P2N1C3		13370		150ET	27	28	150ET		7722		PANEL P2N1C2
			12459		29	30				7180	
					31	32					
SPARE				125	33	34	125				SPARE
					35	36					
SUBTOTAL	84440	80296	77853					61259	60561	55402	SUBTOTAL

NOTES:
TOTAL WATTS L1: 145699
TOTAL WATTS L2: 140857
TOTAL WATTS L3: 133255
TOTAL WATTS: 419811
C.B. TYPE — TOTAL AMPS @ 100%: 1167 AMPS
S=SHUNT TRIP G=GFCI — TOTAL AMPS @ 125%: 1458 AMPS
L=LOCK ON C.B. H=HACR C.B.
AF=ARC FAULT — TOTAL PANEL RECPT LOAD = 0 WATTS

PANELBOARD: P2N1C1

BUS SIZE: 125 AMPS — MAIN: 125 AMP MCB (SHUNT-TRIP)
VOLTAGE: 208 Y/120V 3PH,4W — NEUTRAL: 100%
SERVICE RATED: NO — LOCATION: SCIENCE LAB-CHEM C110
ISOLATED GND BUS: NO — MOUNTING: RECESSED
SHORT CIR. CURRENT RATING 22000 AMPS — TVSS: NO

DIRECTORY	L1	L2	L3	CKT BKR AMPS	POLES	POLES	CKT BKR AMPS	L1	L2	L3	DIRECTORY
IWB RECEP - LAB-CHEM C110	300			20	1	2	20	720			RECEP - PREP ROOM C110A
RECEP - DESK/AV - CHEM C110		540		20	3	4	20		540		RECEP - PREP ROOM C110A
FUME HOOD - LAB-CHEM C110			400	20	5	6	20			300	IWB RECEP - LAB-CHEM C114
RECEP - LAB-CHEM C110	540			20	7	8	20	540			RECEP - DESK/AV - CHEM C114
RECEP - LAB-CHEM C110		360		20	9	10	20		400		FUME HOOD - LAB-CHEM C114
RECEP - LAB-CHEM C110			540	20	11	12	20			540	RECEP - LAB-CHEM C114
RECEP - LAB-CHEM C110	360			20	13	14	20	360			RECEP - LAB-CHEM C114
CNTR RECEP - LAB-CHEM C110		540		20	15	16	20		540		CNTR RECEP - LAB-CHEM C114
CNTR RECEP - LAB-CHEM C110			540	20	17	18	20			360	CNTR RECEP - LAB-CHEM C114
BENCH RECEP - LAB-CHEM C110	720			20	19	20	20	360			CNTR RECEP - LAB-CHEM C114
BENCH RECEP - LAB-CHEM C110		720		20	21	22	20		360		CNTR RECEP - LAB-CHEM C114
BENCH RECEP - LAB-CHEM C110			720	20	23	24	20			360	CNTR RECEP - LAB-CHEM C114
BENCH RECEP - LAB-CHEM C110	720			20	25	26	20	720			BENCH RECEP - LAB-CHEM C114
BENCH RECEP - LAB-CHEM C110		720		20	27	28	20		720		BENCH RECEP - LAB-CHEM C114
BENCH RECEP - LAB-CHEM C110			720	20	29	30	20			720	BENCH RECEP - LAB-CHEM C114
HEAT TRACE - LAB-CHEM C110	400			20	31	32	20	720			BENCH RECEP - LAB-CHEM C114
IWB RECEP - LAB-PHYSICS C124		300		20	33	34	20		720		BENCH RECEP - LAB-CHEM C114
RECEP - DESK/AV - PHYS C124			540	20	35	36	20			720	BENCH RECEP - LAB-CHEM C114
RECEP - LAB-PHYSICS C124	360			20	37	38	20	400			HEAT TRACE - LAB-CHEM C114
CNTR RECEP - LAB-PHYSICS C124		360		20	39	40	20		360		CNTR RECEP - LAB-CHEM C124
CNTR RECEP - LAB-PHYSICS C124			540	20	41	42	20			360	CNTR RECEP - LAB-CHEM C124
CNTR RECEP - LAB-PHYSICS C124	360			20	43	44	20	540			CNTR RECEP - LAB-CHEM C124
DROP CORDS - LAB-CHEM C124		360		20	45	46	20G		700		UC REFRIGERATOR - PREP C124A
DROP CORDS - LAB-CHEM C124			360	20	47	48	20			360	RECEP - SCIENCE PREP C124A
DROP CORDS - LAB-CHEM C124	360			20	49	50	20	540			RECEP - SCIENCE PREP C124A
SHUNT-TRIP POWER		100		20	51	52	20G		700		UC REFRIGERATOR - PREP C110A
SPARE				20	53	54	20				SPARE
SUBTOTAL	4120	4000	4360					4900	5040	3720	SUBTOTAL

NOTES:
TOTAL WATTS L1: 9020
TOTAL WATTS L2: 9040
TOTAL WATTS L3: 8080
TOTAL WATTS: 26140
C.B. TYPE — TOTAL AMPS @ 100%: 73 AMPS
S=SHUNT TRIP G=GFCI — TOTAL AMPS @ 125%: 91 AMPS
L=LOCK ON C.B. H=HACR C.B.
AF=ARC FAULT — TOTAL PANEL RECPT LOAD = 20520 WATTS

PANELBOARD: P2N1C2

BUS SIZE: 150 AMPS — MAIN: MLO
VOLTAGE: 208 Y/120V 3PH,4W — NEUTRAL: 100%
SERVICE RATED: NO — LOCATION: ELEC C114B
ISOLATED GND BUS: NO — MOUNTING: SURFACE
SHORT CIR. CURRENT RATING 22000 AMPS — TVSS: NO

DIRECTORY	L1	L2	L3	CKT BKR AMPS	POLES	POLES	CKT BKR AMPS	L1	L2	L3	DIRECTORY
RECEP - C2 CORRIDOR	720			20	1	2	20	720			RECEP - TOILET C130
RECEP - ELECT ROOM C114B		1260		20	3	4	20		300		LCD RECEP - LIBRARY C120A
RECEP - OFFICE C112			720	20	5	6	20			720	RECEP - LIBRARY C120A
QUAD RECEP - OFFICE C112	360			20	7	8	20	900			RECEP - CORRIDOR
QUAD RECEP - OFFICE C112		360		20	9	10	20		300		IWB RECEP - ROBOTICS C105
RECEP - OFFICE C107			720	20	11	12	20			1000	CHOP SAW - ROBOTICS C105
RECEP - STORAGE C105A	720			20	13	14	20	1000			BAND SAW - ROBOTICS C105
RECEP - ROBOTICS C105		360		20	15	16	20		1000		BELT SANDER - ROBOTICS C105
DROP CORDS - ROBOTICS C105			360	20G	17	18	20			1000	DRILL PRESS - ROBOTICS C105
DROP CORDS - ROBOTICS C105	360			20G	19	20	20	360			QUAD RECEP - ROBOTICS C105
DROP CORDS - ROBOTICS C105		360		20G	21	22	20		360		QUAD RECEP - ROBOTICS C105
DROP CORDS - ROBOTICS C105			360	20G	23	24	20			360	QUAD RECEP - ROBOTICS C105
OVERHEAD DOOR - INCUB C101	862			20	25	26	20	360			QUAD RECEP - ROBOTICS C105
OVERHEAD DOOR - INCUB C101		862		20	27	28	20G		360		DROP CORDS - ROBOTICS C105
RECEP - INCUBATOR C101			360	20	29	30	20			200	LCP4 - ELEC C114B
RECEP - INCUBATOR C101	540			20	31	32	20G	360			DROP CORDS - INCUBATOR C101
RECEP - INCUBATOR C101		720		20	33	34	20G		360		DROP CORDS - INCUBATOR C101
RECEP - INCUBATOR C101			720	20	35	36	20G			360	DROP CORDS - INCUBATOR C101
RECEP - STORAGE C101A	720			20	37	38	20G	360			DROP CORDS - INCUBATOR C101
RECEP - OFFICE C103		720		20	39	40	20		400		JUNCTION - DAMPERS - C120
IWB RECEP - INCUBATOR C101			300	20	41	42	20				SPARE
SPARE				20	43	44	20				SPARE
SPARE				20	45	46	20				SPARE
SPARE				20	47	48	20				SPARE
SPARE				20	49	50	20				SPARE
SPARE				20	51	52	20				SPARE
SPARE				20	53	54	20				SPARE
SUBTOTAL	4282	4642	3540					4060	3080	3640	SUBTOTAL

NOTES:
TOTAL WATTS L1: 8342
TOTAL WATTS L2: 7722
TOTAL WATTS L3: 7180
TOTAL WATTS: 23244
C.B. TYPE — TOTAL AMPS @ 100%: 65 AMPS
S=SHUNT TRIP G=GFCI — TOTAL AMPS @ 125%: 81 AMPS
L=LOCK ON C.B. H=HACR C.B.
AF=ARC FAULT — TOTAL PANEL RECPT LOAD = 16020 WATTS

PANELBOARD: P2N1C3

BUS SIZE: 150 AMPS — MAIN: MLO
VOLTAGE: 208 Y/120V 3PH,4W — NEUTRAL: 100%
SERVICE RATED: NO — LOCATION: ELEC C114B
ISOLATED GND BUS: NO — MOUNTING: SURFACE
SHORT CIR. CURRENT RATING 22000 AMPS — TVSS: NO

DIRECTORY	L1	L2	L3	CKT BKR AMPS	POLES	POLES	CKT BKR AMPS	L1	L2	L3	DIRECTORY
DRYER RECEP - NURSE D105A	3250			30	1	2	20				SPARE
		3250			3	4					
WASHER RECEP - NURSE D105A			1500	20G	5	6	20			720	RECEP - DR OFFICE D106
RECEP - NURSE REC D105A	360			20	7	8	20	900			RECEP - TOILET D107A
RECEP - NURSE REC D105A		540		20	9	10	20G		1000		UC REFRIG. - COMMON D105B
RECEP - TECH HUB A135			1080	20	11	12	20G			1500	REFRIGERATOR - COMMON D105B
PRINTER REC - TECH HUB A135	1000			20	13	14	20	900			RECEP - NURSE COMMON D105B
QUAD RECEP - TECH HUB A135		360		20	15	16	20		900		RECEP - NURSE WAITING D105
QUAD RECEP - TECH HUB A135			360	20	17	18	20			600	(2) LCD - CORRIDOR
(2) LCD - FACULTY LOUNGE A133B	300			20	19	20	20	1500			TOASTER - FAC. LOUNGE A133B
RECEP - FACULTY LOUNGE A133B		540		20	21	22	20		1500		MICROWAVE - FAC LOUNGE A133B
RECEP - FACULTY LOUNGE A133A			540	20	23	24	20			1500	MICROWAVE - FAC LOUNGE A133B
RECEP - FACULTY LOUNGE A133A	540			20	25	26	20	1500			COFFEE MACH - LOUNGE A133B
COPIER - FACULTY LOUNGE A133B		1200		20	27	28	20		1500		CNTR RECEP - LOUNGE A133B
RECEP - DINING A131			360	20	29	30	20G			1500	REFRIGERATOR - LOUNGE A133B
RECEP - DINING A131	540			20	31	32	20G	1500			REFRIGERATOR - LOUNGE A133B
RECEP - DINING A131		720		20	33	34	20		360		AV QUAD RECEP - DINING A131
VENDING MACHINE RECEP - A131			1200	20G	35	36	20			300	LCD - CORRIDOR
VENDING MACHINE RECEP - A131	1200			20G	37	38	20	900			RECEP - CORRIDOR
VENDING MACHINE RECEP - A131		1200		20G	39	40	20		300		LCD - DINING A131
VENDING MACHINE RECEP - A131			1200	20G	41	42	20			99	LTG - ST LIBRARY C120A TRACK
FAN DBF-C104D	75			20	43	44	20	180			RECEP - PRINTER - D105A
SPARE				20	45	46	20				SPARE
SPARE				20	47	48	20				SPARE
SPARE				20	49	50	20				SPARE
SPARE				20	51	52	20				SPARE
SPARE				20	53	54	20				SPARE
SUBTOTAL	7265	7810	6240					7380	5560	6219	SUBTOTAL

NOTES:
TOTAL WATTS L1: 14645
TOTAL WATTS L2: 13370
TOTAL WATTS L3: 12459
TOTAL WATTS: 40474
C.B. TYPE — TOTAL AMPS @ 100%: 112 AMPS
S=SHUNT TRIP G=GFCI — TOTAL AMPS @ 125%: 141 AMPS
L=LOCK ON C.B. H=HACR C.B.
AF=ARC FAULT — TOTAL PANEL RECPT LOAD = 11760 WATTS

PANELBOARD: P2N1C4

BUS SIZE: 150 AMPS — MAIN: 150 AMP MCB ELECTRONIC TRIP (SHUNT-TRIP)
VOLTAGE: 208 Y/120V 3PH,4W — NEUTRAL: 100%
SERVICE RATED: NO — LOCATION: AUTO TECHNOLOGY C133
ISOLATED GND BUS: NO — MOUNTING: SURFACE
SHORT CIR. CURRENT RATING 22000 AMPS — TVSS: NO

DIRECTORY	L1	L2	L3	CKT BKR AMPS	POLES	POLES	CKT BKR AMPS	L1	L2	L3	DIRECTORY
					1	2					
SPARE				20	3	4	20				SPARE
					5	6					
					7	8	20	1664			VEHICLE LIFT - AUTO TECH C133
SPARE				20	9	10			1664		
					11	12	20			1664	VEHICLE LIFT - AUTO TECH C133
VEHICLE LIFT - AUTO TECH C133	1664			20	13	14		1664			
		1664			15	16	20		1176		VEH. EXHAUST VE-1
VEHICLE LIFT - AUTO TECH C133			1664	20	17	18	20			1176	VEH. EXHAUST VE-2
	1664				19	20	20	1176			VEH. EXHAUST VE-3
DRYER RAD-1		625		20	21	22	20		1176		VEH. EXHAUST VE-4
			625		23	24	20			100	SHUNT-TRIP POWER
IWB RECEP - INSTRUCTION C133A	300			20	25	26	20	1200			VEHICLE CHARGER - AUTO C133
RECEP - INSTRUCTION C133A		720		20	27	28	20		1200		TIRE CHANGER - AUTO C133
RECEP - INSTRUCTION C133A			720	20	29	30	20			1200	TIRE BALANCER - AUTO C133
RECEP - TECH OFFICE C135	720			20	31	32	20	360			COUNTER RECEP - TECH C133
RECEP - CHANGING C133C		540		20	33	34	20		720		RECEP - AUTO TECH C133
DROP CORD - AUTO TECH C133			360	20G	35	36	20			720	RECEP - AUTO TECH C133
COUNTER RECEP - TECH C133	180			20	37	38	20	862			OVERHEAD DOOR - AUTO C133
COUNTER RECEP - TECH C133		360		20	39	40	20				SPARE
COUNTER RECEP - TECH C133			360	20	41	42	20				SPARE
QUAD RECEP - AUTO TECH C133	360			20	43	44	20				SPARE
QUAD RECEP - AUTO TECH C133		360		20	45	46	20				SPARE
QUAD RECEP - AUTO TECH C133			360	20	47	48	20				SPARE
QUAD RECEP - AUTO TECH C133	360			20	49	50	20				SPARE
SPARE				20	51	52	20				SPARE
SPARE				20	53	54	20				SPARE
SUBTOTAL	5248	4269	4089					6926	5936	4860	SUBTOTAL

NOTES:
TOTAL WATTS L1: 12174
TOTAL WATTS L2: 10205
TOTAL WATTS L3: 8949
TOTAL WATTS: 31328
C.B. TYPE — TOTAL AMPS @ 100%: 87 AMPS
S=SHUNT TRIP G=GFCI — TOTAL AMPS @ 125%: 109 AMPS
L=LOCK ON C.B. H=HACR C.B.
AF=ARC FAULT — TOTAL PANEL RECPT LOAD = 7200 WATTS

PANELBOARD: P2N1C5

BUS SIZE: 225 AMPS — MAIN: 225 AMP MCB ELECTRONIC TRIP (SHUNT-TRIP)
VOLTAGE: 208 Y/120V 3PH,4W — NEUTRAL: 100%
SERVICE RATED: NO — LOCATION: AUTO COLLISION C139
ISOLATED GND BUS: NO — MOUNTING: SURFACE
SHORT CIR. CURRENT RATING 22000 AMPS — TVSS: NO

DIRECTORY	L1	L2	L3	CKT BKR AMPS	POLES	POLES	CKT BKR AMPS	L1	L2	L3	DIRECTORY
	5764				1	2		2500			
SPRAY BOOTH FEED - C139		5764		60	3	4	50		2500		FRAME STAIGHTENING LIFT - C139
			5764		5	6				2500	
					7	8					
SPARE				20	9	10	20				SPARE
					11	12					
VEHICLE LIFT - C139	1664			20	13	14					
		1664			15	16	20				SPARE
VEHICLE LIFT - C139			1664	20	17	18					
	1664				19	20	20				SPARE
SPARE				20	21	22					
					23	24	20			360	CNTR RECEP - AUTO COLL C139
SPARE				20	25	26	20	360			CNTR RECEP - AUTO COLL C139
					27	28	20		360		CNTR RECEP - AUTO COLL C139
OVERHEAD DOOR - C139			862	20	29	30	20			300	IWB RECEP - INSTRUCTION C139A
RECEP - AUTO COLLISION C139	540			20	31	32	20	720			RECEP - INSTRUCTION C139A
RECEP - AUTO COLLISION C139		720		20	33	34	20		720		RECEP - INSTRUCTION C139A
RECEP - AUTO COLLISION C139			720	20	35	36	20			720	RECEP - TOOL STORAGE C139B
RECEP - OFFICE C135A	720			20	37	38	20	360			CNTR RECEP - AUTO COLL C139
SPRAY BOOTH CIRCUIT - C139		1200		20	39	40	20		100		SHUNT-TRIP POWER
SPRAY BOOTH CIRCUIT - C139			1200	20	41	42	20				SPARE
SPARE				20	43	44	20				SPARE
SPARE				20	45	46	20				SPARE
SPARE				20	47	48	20				SPARE
SPARE				20	49	50	20				SPARE
SPARE				20	51	52	20				SPARE
SPARE				20	53	54	20				SPARE
SUBTOTAL	10352	9348	10210					3940	3680	3880	SUBTOTAL

NOTES:
TOTAL WATTS L1: 14292
TOTAL WATTS L2: 13028
TOTAL WATTS L3: 14090
TOTAL WATTS: 41410
C.B. TYPE — TOTAL AMPS @ 100%: 115 AMPS
S=SHUNT TRIP G=GFCI — TOTAL AMPS @ 125%: 144 AMPS
L=LOCK ON C.B. H=HACR C.B.
AF=ARC FAULT — TOTAL PANEL RECPT LOAD = 6300 WATTS

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STATE OF MAINE — CHRISTOPHER M. SHUMWAY — No. 10820 — LICENSED PROFESSIONAL ENGINEER

Sanford School Department and State of Maine Department of Education

SANFORD HIGH SCHOOL and TECHNICAL CENTER

SANFORD, ME 04073

NO.	DESCRIPTION	DATE

CONTENT: PANELBOARD SCHEDULES

DRAWN BY: C. NEWELL
PROJECT NO: 12-067-00
DATE: 02/11/2016
REVISED:
SCALE: NO SCALE

E0.09

Project Phase
BID DOCUMENTS

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FOR ADDITIONAL INFORMATION, REFER TO PROJECT MANUAL.

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DRAWING NOTES

1. THE FOLLOWING NOTES ONLY APPLY TO THIS DRAWING.
2. REFER TO GENERAL NOTES, ELECTRICAL TRADE NOTES, LEGEND AND ABBREVIATIONS ON DRAWING E0.01.

PANELBOARD: P4N1C6A

BUS SIZE: 800 AMPS — MAIN: 800 AMP MCB ELECTRONIC TRIP (SHUNT-TRIP)
VOLTAGE: 480 Y/277V 3PH,4W — NEUTRAL: 100%
SERVICE RATED: NO — LOCATION: WELDING STORAGE C138D
ISOLATED GND BUS: NO — MOUNTING: SURFACE
SHORT CIR. CURRENT RATING 22000 AMPS — TVSS: NO

DIRECTORY	L1	L2	L3	CKT BKR AMPS	POLES	POLES	CKT BKR AMPS	L1	L2	L3	DIRECTORY
WELDING STATION #1 - C138	5500	5500	5500	30	1, 3, 5	2, 4, 6	30	5500	5500	5500	WELDING STATION #2 - C138
WELDING STATION #3 - C138	5500	5500	5500	30	7, 9, 11	8, 10, 12	30	5500	5500	5500	WELDING STATION #4 - C138
WELDING STATION #5 - C138	5500	5500	5500	30	13, 15, 17	14, 16, 18	30	5500	5500	5500	WELDING STATION #6 - C138
WELDING STATION #7 - C138	5500	5500	5500	30	19, 21, 23	20, 22, 24	30	5500	5500	5500	WELDING STATION #8 - C138
WELDING STATION #9 - C138	5500	5500	5500	30	25, 27, 29	26, 28, 30	30	5500	5500	5500	WELDING STATION #10 - C138
WELDING STATION #11 - C138	5500	5500	5500	30	31, 33, 35	32, 34, 36	30	5500	5500	5500	WELDING STATION #12 - C138
WELDING STATION #13 - C138	5500	5500	5500	30	37, 39, 41	38, 40, 42	30	5500	5500	5500	WELDING STATION #14 - C138
WELDING STATION #15 - C138	5500	5500	5500	30	43, 45, 47	44, 46, 48	30	5500	5500	5500	WELDING STATION #16 - C138
WELDING STATION #17 - C138	5500	5500	5500	30	49, 51, 53	50, 52, 54	30	5500	5500	5500	WELDING STATION #18 - C138
SUBTOTAL	49500	49500	49500					49500	49500	49500	SUBTOTAL

NOTES:
FEED-THRU LUGS

TOTAL WATTS L1:	160230
TOTAL WATTS L2:	159034
TOTAL WATTS L3:	157602
TOTAL WATTS:	476866
TOTAL AMPS @ 100%:	574 AMPS
TOTAL AMPS @ 125%:	718 AMPS
TOTAL PANEL RECPT LOAD =	0 WATTS

C.B. TYPE: S=SHUNT TRIP; G=GFCI; L=LOCK ON C.B.; H=HACR C.B.; AF=ARC FAULT

PANELBOARD: P4N1C6B

BUS SIZE: 800 AMPS — MAIN: MLO
VOLTAGE: 480 Y/277V 3PH,4W — NEUTRAL: 100%
SERVICE RATED: NO — LOCATION: WELDING STORAGE C138D
ISOLATED GND BUS: NO — MOUNTING: SURFACE
SHORT CIR. CURRENT RATING 22000 AMPS — TVSS: NO

DIRECTORY	L1	L2	L3	CKT BKR AMPS	POLES	POLES	CKT BKR AMPS	L1	L2	L3	DIRECTORY
WELDING STATION #19 - C138	5500	5500	5500	30	1, 3, 5	2, 4, 6	150	13948	12752	11320	PANEL P2N1C6 VIA TRANS T-C6
WELDING STATION #20 - C138	5500	5500	5500	30	7, 9, 11	8, 10, 12	30	5500	5500	5500	CARBON ARC WELDER - C138
SIR BENZALOT - C138	7482	7482	7482	100	13, 15, 17	14, 16, 18	30	5500	5500	5500	POWER SHEAR - C138
SPOT WELDER - C138	6800	6800	6800	45	19, 21, 23	20, 22, 24	30	5500	5500	5500	PLASMA TORCH - C138
COMB. WELDER - C138	5500	5500	5500	30	25, 27, 29	26, 28, 30	30				SPARE
SPARE				20	31, 33, 35	32, 34, 36	20				SPARE
SPARE				20	37, 39, 41	38, 40, 42	30				SPARE
SPARE				30	43, 45, 47	44, 46, 48	50				SPARE
SPARE				50	49, 51, 53	50, 52, 54	60				SPARE
SUBTOTAL	30782	30782	30782					30448	29252	27820	SUBTOTAL

NOTES:

TOTAL WATTS L1:	61230
TOTAL WATTS L2:	60034
TOTAL WATTS L3:	58602
TOTAL WATTS:	179866
TOTAL AMPS @ 100%:	217 AMPS
TOTAL AMPS @ 125%:	271 AMPS
TOTAL PANEL RECPT LOAD =	0 WATTS

C.B. TYPE: S=SHUNT TRIP; G=GFCI; L=LOCK ON C.B.; H=HACR C.B.; AF=ARC FAULT

PANELBOARD: P2N1C8

BUS SIZE: 400 AMPS — MAIN: 400 AMP MCB ELECTRONIC TRIP (SHUNT-TRIP)
VOLTAGE: 208 Y/120V 3PH,4W — NEUTRAL: 100%
SERVICE RATED: NO — LOCATION: PREC. MANUFACTURING C134
ISOLATED GND BUS: NO — MOUNTING: SURFACE
SHORT CIR. CURRENT RATING 22000 AMPS — TVSS: NO

DIRECTORY	L1	L2	L3	CKT BKR AMPS	POLES	POLES	CKT BKR AMPS	L1	L2	L3	DIRECTORY
HAAS MINI MILL - C134	3002	3002	3002	40	1, 3, 5	2, 4, 6	150	11020	10320	11040	PANEL P2N1C8A
METAL LATHE BUS DROP - C134	1200	1200	1200	20	7, 9, 11	8, 10, 12	20	1200	1200	1200	METAL LATHE BUS DROP - C134
METAL LATHE BUS DROP - C134	1200	1200	1200	20	13, 15, 17	14, 16, 18	20	1200	1200	1200	METAL LATHE BUS DROP - C134
METAL LATHE BUS DROP - C134	1200	1200	1200	20	19, 21, 23	20, 22, 24	20	1200	1200	1200	METAL LATHE BUS DROP - C134
METAL LATHE BUS DROP - C134	1200	1200	1200	20	25, 27, 29	26, 28, 30	20	1200	1200	1200	METAL LATHE BUS DROP - C134
METAL LATHE BUS DROP - C134	1200	1200	1200	20	31, 33, 35	32, 34, 36	20	1200	1200	1200	METAL LATHE BUS DROP - C134
METAL LATHE BUS DROP - C134	1200	1200	1200	20	37, 39, 41	38, 40, 42	20	1200	1200	1200	MILLING MACH. BUS DROP - C134
MILLING MACH. BUS DROP - C134	1200	1200	1200	20	43, 45, 47	44, 46, 48	20	1200	1200	1200	MILLING MACH. BUS DROP - C134
MILLING MACH. BUS DROP - C134	1200	1200	1200	20	49, 51, 53	50, 52, 54	20	1200	1200	1200	MILLING MACH. BUS DROP - C134
MILLING MACH. BUS DROP - C134	1200	1200	1200	20	55, 57, 59	56, 58, 60	60	3699	3699	3699	AIR COMPRESSOR PAC-2
MILLING MACH. BUS DROP - C134	1200	1200	1200	20	61, 63, 65	62, 64, 66	20				SPARE
SPARE				20	67, 69, 71	68, 70, 72	20				SPARE
SPARE				20	73, 75	74, 76	20				SPARE
OVERHEAD DOOR - C134			864	20	77	78	20			1200	DRYER RAD-2
SHUNT-TRIP POWER	100			20	79	80	20				SPARE
SPARE				20	81	82	20				SPARE
SPARE				20	83	84	20				SPARE
SUBTOTAL	15102	15002	15866					24319	23619	25539	SUBTOTAL

NOTES:

TOTAL WATTS L1:	39421
TOTAL WATTS L2:	38621
TOTAL WATTS L3:	41405
TOTAL WATTS:	119447
TOTAL AMPS @ 100%:	332 AMPS
TOTAL AMPS @ 125%:	415 AMPS
TOTAL PANEL RECPT LOAD =	0 WATTS

C.B. TYPE: S=SHUNT TRIP; G=GFCI; L=LOCK ON C.B.; H=HACR C.B.; AF=ARC FAULT

PANELBOARD: P2N1C9

BUS SIZE: 225 AMPS — MAIN: 225 AMP MCB ELECTRONIC TRIP (SHUNT-TRIP)
VOLTAGE: 208 Y/120V 3PH,4W — NEUTRAL: 100%
SERVICE RATED: NO — LOCATION: CTE EXPLORATION STUDIO C117
ISOLATED GND BUS: NO — MOUNTING: SURFACE
SHORT CIR. CURRENT RATING 22000 AMPS — TVSS: NO

DIRECTORY	L1	L2	L3	CKT BKR AMPS	POLES	POLES	CKT BKR AMPS	L1	L2	L3	DIRECTORY
WELDER - C117	2500	2500	2500	50	1, 3, 5	2, 4, 6	20				SPARE
SPARE				20	7, 9, 11	8, 10, 12	20	1200	1200	1200	JOINTER BUS DROP - C117
SPARE				50	13, 15	14, 16, 18	20	1200	1200	1200	PLANER BUS DROP - C117
SPARE				20	17						
SPARE				20	19, 21, 23	20, 22, 24	20	1200	1200	1200	TABLE SAW BUS DROP - C117
IWB RECEP - INSTRUCTION C117A	300			20	25	26	20	720			RECEP - OFFICE C119
RECEP - INSTRUCTION C117A		720		20	27	28	20		360		RECEP - FINISHING C121
RECEP - INSTRUCTION C117A			720	20	29	30	20			360	RECEP - FINISHING C121
OVERHEAD DOOR - C117	862			20	31	32	20	360			RECEP - FINISHING C121
DROP CORDS - C117		360		20G	33	34	20		1000		SCROLL SAW - C117
DROP CORDS - C117			360	20G	35	36	20			1000	BENCH TOP SANDER - C117
MITER BENCH - C117	1000			20	37	38	20	1000			GRINDER - C117
MITER BENCH - C117		1000		20	39	40	20		540		RECEP - STUDIO C117
ROUTER TABLE - C117			1000	20	41	42	20			720	RECEP - STUDIO C117
DRILL PRESS - C117	1000			20	43	44	20	1000			SCROLL SAW - C117
BAND SAW - C117		1000		20	45	46	25		1656		FILTER AFF-C117a
BAND SAW - C117			1000	20	47	48	25			1656	FILTER AFF-C117b
SHUNT-TRIP POWER	100			20	49	50	20	1000			LATHE BUS DROP - C117
DUST COLLECTION FIRE PANEL		300		20	51	52	20		1000		LATHE BUS DROP - C117
HEAT TRACE - C117 - 2ND FLOOR			400	20	53	54	20				SPARE
SUBTOTAL	5762	5880	5980					7680	8156	7336	SUBTOTAL

NOTES:

TOTAL WATTS L1:	13442
TOTAL WATTS L2:	14036
TOTAL WATTS L3:	13316
TOTAL WATTS:	40794
TOTAL AMPS @ 100%:	113 AMPS
TOTAL AMPS @ 125%:	142 AMPS
TOTAL PANEL RECPT LOAD =	5220 WATTS

C.B. TYPE: S=SHUNT TRIP; G=GFCI; L=LOCK ON C.B.; H=HACR C.B.; AF=ARC FAULT

PANELBOARD: P2N1C10

BUS SIZE: 225 AMPS — MAIN: MLO
VOLTAGE: 208 Y/120V 3PH,4W — NEUTRAL: 100%
SERVICE RATED: NO — LOCATION: RESIDENTIAL WIRING C113
ISOLATED GND BUS: NO — MOUNTING: SURFACE
SHORT CIR. CURRENT RATING 22000 AMPS — TVSS: NO

DIRECTORY	L1	L2	L3	CKT BKR AMPS	POLES	POLES	CKT BKR AMPS	L1	L2	L3	DIRECTORY
PANEL P2N1C10A	6000	6000	4800	150	1, 3, 5	2, 4, 6	60				SPARE
SPARE				30	7, 9, 11	8, 10, 12	20				SPARE
RECEP - OFFICE C115	720			20	13	14	20	300			IWB RECEP - INSTRUCTION C113A
RECEP - WW RES WIRING C113		540		20	15	16	20		720		RECEP - INSTRUCTION C113A
RECEP - WW RES WIRING C113			540	20	17	18	20			720	RECEP - INSTRUCTION C113A
RECEP - WW RES WIRING C113	540			20	19	20	20	720			RECEP -MAT'L STORAGE C113B
RECEP - WW RES WIRING C113		540		20	21	22	20		360		RECEP - WORKBENCH C113
RECEP - WW RES WIRING C113			540	20	23	24	20			360	RECEP - WORKBENCH C113
RECEP - RES WIRING C113	720			20	25	26	20G	360			DROP CORDS - RES WIRING C113
RECEP - RES WIRING C113		540		20	27	28	20G		360		DROP CORDS - RES WIRING C113
SPARE				20	29	30	20				SPARE
SPARE				20	31	32	20				SPARE
SPARE				20	33	34	20				SPARE
SPARE				20	35	36	20				SPARE
SPARE				20	37	38	20				SPARE
SPARE				20	39	40	20				SPARE
SPARE				20	41	42	20				SPARE
SUBTOTAL	7980	7620	5880					1380	1440	1080	SUBTOTAL

NOTES:

TOTAL WATTS L1:	9360
TOTAL WATTS L2:	9060
TOTAL WATTS L3:	6960
TOTAL WATTS:	25380
TOTAL AMPS @ 100%:	71 AMPS
TOTAL AMPS @ 125%:	88 AMPS
TOTAL PANEL RECPT LOAD =	8280 WATTS

C.B. TYPE: S=SHUNT TRIP; G=GFCI; L=LOCK ON C.B.; H=HACR C.B.; AF=ARC FAULT

PANELBOARD: L4N1A1

BUS SIZE: 125 AMPS — MAIN: MLO
VOLTAGE: 480 Y/277V 3PH,4W — NEUTRAL: 100%
SERVICE RATED: NO — LOCATION: ELEC A174
ISOLATED GND BUS: NO — MOUNTING: SURFACE
SHORT CIR. CURRENT RATING 18000 AMPS — TVSS: NO

DIRECTORY	L1	L2	L3	CKT BKR AMPS	POLES	POLES	CKT BKR AMPS	L1	L2	L3	DIRECTORY
480-VOLT RIGGING POWER - A183	4365	4365	4365	20	1, 3, 5	2, 4, 6	20	4365	4365	4365	480-VOLT RIGGING POWER - A183
SPARE				20	7, 9, 11	8	20	432			LTG - EXTERIOR BLDG A3,F2,F1
						10	20		3577		LTG - CORRIDOR F101
						12	20				SPARE
LTG - MAIN COMMONS A120	3621			20	13	14	20				SPARE
LTG - LIB RESOURCE A127		3216		20	15	16	20				SPARE
LTG - STAIR A			360	20	17	18	20				SPARE
LTG - WRESTLING F126	2907			20	19	20	20				SPARE
SPARE				20	21	22	20				SPARE
SPARE				20	23	24	20				SPARE
SUBTOTAL	10893	7581	4725					4797	7942	4365	SUBTOTAL

NOTES:

TOTAL WATTS L1:	15690
TOTAL WATTS L2:	15523
TOTAL WATTS L3:	9090
TOTAL WATTS:	40303
TOTAL AMPS @ 100%:	49 AMPS
TOTAL AMPS @ 125%:	61 AMPS
TOTAL PANEL RECPT LOAD =	0 WATTS

C.B. TYPE: S=SHUNT TRIP; G=GFCI; L=LOCK ON C.B.; H=HACR C.B.; AF=ARC FAULT

PANELBOARD: D2N1A1

BUS SIZE: 800 AMPS — MAIN: 800 AMP MCB ELECTRONIC TRIP
VOLTAGE: 208 Y/120V 3PH,4W — NEUTRAL: 100%
SERVICE RATED: NO — LOCATION: ELEC A174
ISOLATED GND BUS: NO — MOUNTING: SURFACE
SHORT CIR. CURRENT RATING 22000 AMPS — TVSS: NO

DIRECTORY	L1	L2	L3	CKT BKR AMPS	POLES	POLES	CKT BKR AMPS	L1	L2	L3	DIRECTORY
PANEL P2N1A1	11018	11586	9262	125	1, 3, 5	2, 4, 6	125	13050	13110	10620	PANEL P2N1A2
PANEL P2N1A3	7380	7920	6780	125	7, 9, 11	8, 10, 12	125	9090	9140	9900	PANEL P2N1A4
PANEL P2N1A5	22884	22720	22560	225ET	13, 15, 17	14, 16, 18	150ET	13570	12670	9180	PANEL P2N1A6
PANEL P2N1A7	19967	18427	17187	225ET	19, 21, 23	20, 22, 24	125				SPARE
SPARE				60	25, 27, 29	26, 28, 30	50				SPARE
SUBTOTAL	61249	60653	55789					35710	34920	29700	SUBTOTAL

NOTES:

TOTAL WATTS L1:	96959
TOTAL WATTS L2:	95573
TOTAL WATTS L3:	85489
TOTAL WATTS:	278021
TOTAL AMPS @ 100%:	773 AMPS
TOTAL AMPS @ 125%:	966 AMPS
TOTAL PANEL RECPT LOAD =	0 WATTS

C.B. TYPE: S=SHUNT TRIP; G=GFCI; L=LOCK ON C.B.; H=HACR C.B.; AF=ARC FAULT

PANELBOARD: P2N1A1

BUS SIZE: 125 AMPS — MAIN: MLO
VOLTAGE: 208 Y/120V 3PH,4W — NEUTRAL: 100%
SERVICE RATED: NO — LOCATION: ELEC A174
ISOLATED GND BUS: NO — MOUNTING: SURFACE
SHORT CIR. CURRENT RATING 22000 AMPS — TVSS: NO

DIRECTORY	L1	L2	L3	CKT BKR AMPS	POLES	POLES	CKT BKR AMPS	L1	L2	L3	DIRECTORY
FUTURE UPS UNIT	2402	2402	2402	30	1, 3, 5	2, 4, 6	30				SPARE (FUTURE UPS)
RECEP - CONCESSIONS A178A	720			20	7	8	20	540			RECEP - ELECT ROOM A174
RECEP - IT OFFICE A182		720		20	9	10	20		540		RECEP - STORAGE ROOM A176
QUAD RECEP -IT OFFICE A182			360	20	11	12	20			180	RECEP - USB - WORKROOM A184
QUAD RECEP -IT OFFICE A182	360			20	13	14	20	180			RECEP - USB - WORKROOM A184
RECEP - IT SERVER/DATA A184A		540		20	15	16	20		180		RECEP - USB - WORKROOM A184
RECEP - IT SERVER/DATA A184A			540	20	17	18	20			180	RECEP - USB - WORKROOM A184
RECEP - IT SERVER/DATA A184A	540			20	19	20	20	180			RECEP - USB - WORKROOM A184
QUAD REC - IT SERV/DATA A184A		1080		20	21	22	20		180		RECEP - USB - WORKROOM A184
QUAD REC - IT SERV/DATA A184A			1080	20	23	24	20			180	RECEP - USB - WORKROOM A184
QUAD REC - IT SERV/DATA A184A	1080			20	25	26	20	180			RECEP - USB - WORKROOM A184
UPS RECEP - IT SERV/DATA A184A		1200		30	27	28	20		180		RECEP - USB - WORKROOM A184
UPS RECEP - IT SERV/DATA A184A			1200	30	29	30	20			180	RECEP - USB - WORKROOM A184
UPS RECEP - IT SERV/DATA A184A	1200			30	31	32	20	180			RECEP - USB - WORKROOM A184
UPS RECEP - IT SERV/DATA A184A		1200		30	33	34	20		180		RECEP - USB - WORKROOM A184
UPS RECEP - IT SERV/DATA A184A			1200	30	35	36	20			180	RECEP - USB - WORKROOM A184
UPS RECEP - IT SERV/DATA A184A	1200			30	37	38	20	180			RECEP - USB - WORKROOM A184
UPS RECEP - IT SERV/DATA A184A		1200		30	39	40	20		400		ELEVATOR #2 - RECEP & LIGHT
LCD - DINING A151			300	30	41	42	20			200	EMR RECEP & LIGHT - A165
RECEP - DINING A151	900			30	43	44	20	1176			ELEVATOR SUMP PUMP SP-2
RECEP - DINING A151		720		30	45	46	20		864		OVERHEAD DOOR - CAFÉ A178
RECEP - CAN WASH A152			1080	20	47	48	20				SPARE
SPARE				20	49	50	20				SPARE
SPARE				20	51	52	20				SPARE
SPARE				20	53	54	20				SPARE
SUBTOTAL	8402	9062	8162					2616	2524	1100	SUBTOTAL

NOTES:

TOTAL WATTS L1:	11018
TOTAL WATTS L2:	11586
TOTAL WATTS L3:	9262
TOTAL WATTS:	31866
TOTAL AMPS @ 100%:	89 AMPS
TOTAL AMPS @ 125%:	111 AMPS
TOTAL PANEL RECPT LOAD =	10800 WATTS

C.B. TYPE: S=SHUNT TRIP; G=GFCI; L=LOCK ON C.B.; H=HACR C.B.; AF=ARC FAULT

PANELBOARD: P2N1A2

BUS SIZE: 125 AMPS — MAIN: MLO
VOLTAGE: 208 Y/120V 3PH,4W — NEUTRAL: 100%
SERVICE RATED: NO — LOCATION: ELEC A174
ISOLATED GND BUS: NO — MOUNTING: SURFACE
SHORT CIR. CURRENT RATING 22000 AMPS — TVSS: NO

DIRECTORY	L1	L2	L3	CKT BKR AMPS	POLES	POLES	CKT BKR AMPS	L1	L2	L3	DIRECTORY
RECEP - CHILDHOOD ED A143	720			20	1	2, 4	30	3250	3250		DRYER RECEP - KITCHEN A143A
RECEP - CHILDHOOD ED A143		360		20	3						
RECEP - CHILDHOOD ED A143			360	20	5	6	20G			1500	WASHER RECEP - KITCHEN A143A
RECEP - CHILDHOOD ED A143	360			20	7	8	20G	1500			DISHWASHER - ECE KITCH A143A
LCD - CHILDHOOD ED A143		300		20	9	10	20G		1500		REFRIG. - ECE KITCH A143A
RECEP - TOILET A145			720	20	11	12	20G			1500	FREEZER - ECE KITCH A143A
IWB RECEP - LIBRARY CONF A160	300			20	13	14	20	360			RECEP - ECE KITCHEN A143A
RECEP - LIBRARY CONF A160		720		20	15	16	20		1500		CNTR RECEP - ECE KITCH A143A
LCD - LIBRARY CONF A160			300	20	17	18	20			1000	RANGE RECEP - ECE KITCH A143A
FLOOR BOX A3 - LIBR CONF A160	360			20	19	20	20	720			RECEP - LIBR OFFICE A125
RECEP - WORK ROOM A123		360		20	21	22	20		180		RECEP - LIBR OFFICE A125
RECEP - WORK ROOM A123			540	20	23	24	20			300	IWB RECEP - LIBR RESOUR A127
COPIER - WORK ROOM A123	1500			20	25	26	20	540			RECEP - LIBR RESOURCE A127
RECEP - TOILET A164		720		20	27	28	20		720		RECEP - LIBR RESOURCE A127
RECEP - CORRIDOR A170			1260	20	29	30	20			540	RECEP - EXTERIOR PLAYGROUND
LCD - CORRIDOR A170	300			20	31	32	20	540			RECEP - EXTERIOR - ENTRY A171
REFRIGERATOR - CAFÉ A178		1500		20G	33	34	20		500		JUNCTION - HOOD - A143A
REFRIGERATOR - CAFÉ A178			1500	20G	35	36	20				SPARE
REFRIGERATOR - CAFÉ A178	1500			20G	37	38	20				SPARE
RECEPTACLES - CAFÉ A178		1500		20	39	40	20				SPARE
MICROWAVE - CAFÉ A178			1100	20	41	42	20				SPARE
MICROWAVE - CAFÉ A178	1100			20	43	44	20				SPARE
SPARE				20	45	46	20				SPARE
SPARE				20	47	48	20				SPARE
SPARE				20	49	50	20				SPARE
SPARE				20	51	52	20				SPARE
SPARE				20	53	54	20				SPARE
SUBTOTAL	6140	5460	5780					6910	7650	4840	SUBTOTAL

NOTES:

TOTAL WATTS L1:	13050
TOTAL WATTS L2:	13110
TOTAL WATTS L3:	10620
TOTAL WATTS:	36780
TOTAL AMPS @ 100%:	102 AMPS
TOTAL AMPS @ 125%:	128 AMPS
TOTAL PANEL RECPT LOAD =	11220 WATTS

C.B. TYPE: S=SHUNT TRIP; G=GFCI; L=LOCK ON C.B.; H=HACR C.B.; AF=ARC FAULT

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STATE OF MAINE — CHRISTOPHER M. SHUMWAY — No. 10820 — LICENSED PROFESSIONAL ENGINEER

Sanford School Department and State of Maine Department of Education

SANFORD HIGH SCHOOL and TECHNICAL CENTER

SANFORD, ME 04073

NO.	DESCRIPTION	DATE

CONTENT: PANELBOARD SCHEDULES

DRAWN BY: C. NEWELL
PROJECT NO: 12-067-00
DATE: 02/11/2016
REVISED:
SCALE: NO SCALE

E0.10

Project Phase
BID DOCUMENTS

FOR ADDITIONAL INFORMATION, REFER TO PROJECT MANUAL.

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2/4/2016 2:36:59 PM

DRAWING NOTES

1. THE FOLLOWING NOTES ONLY APPLY TO THIS DRAWING.
2. REFER TO GENERAL NOTES, ELECTRICAL TRADE NOTES, LEGEND AND ABBREVIATIONS ON DRAWING E0.01.

PANELBOARD: P2N1A3

BUS SIZE: 125 AMPS — MAIN: MLO
VOLTAGE: 208 Y/120V 3PH,4W — NEUTRAL: 100%
SERVICE RATED: NO — LOCATION: ELEC A174
ISOLATED GND BUS: NO — MOUNTING: SURFACE
SHORT CIR. CURRENT RATING 22000 AMPS — TVSS: NO

DIRECTORY	WATTS OF LOAD L1	L2	L3	CKT BKR AMPS	POLES	POLES	CKT BKR AMPS	WATTS OF LOAD L1	L2	L3	DIRECTORY
QUAD RECEP - LIBR STACK A122	360			20	1	2	20	720			RECEP - LIBRARY STORAGE A124
QUAD RECEP - LIBR STACK A122		360		20	3	4	20		300		IWB RECEP - ECE INSTRUCT A140
QUAD RECEP - LIBR STACK A122			360	20	5	6	20			900	RECEP - ECE INSTRUCT A140
QUAD RECEP - LIBR STACK A122	360			20	7	8	20	720			RECEP - ECE INSTRUCT A140
RECEP - OBSERV CONF A144		540		20	9	10	20		300		LCD - ECE INSTRUCT A140
RECEP - OBSERV CONF A144			720	20	11	12	20			180	RECEP - OFFICE E102
RECEP - LIBRARY STACK A122	900			20	13	14	20	180			RECEP - OFFICE E102
PRINTER/COPIER - LIBRARY A122		1500		20	15	16	20		180		RECEP - OFFICE E102
USB WIREWAY - LIBRARY A122			540	20	17	18	20			540	RECEP - OFFICE E102
USB WIREWAY - LIBRARY A122	540			20	19	20	20	720			RECEP - ECE STORAGE A140A
USB WIREWAY - LIBR CONF A126		540		20	21	22	20		540		RECEP - OFFICE A141
USB WIREWAY - LIBR CONF A126			540	20	23	24	20			360	RECEP - FASHION LAB E104
USB WIREWAY - LIBR CONF A126	540			20	25	26	20	360			RECEP - FASHION LAB E104
USB WIREWAY - LIBR CONF A126		540		20	27	28	20		540		RECEP - FASHION LAB E104
USB WIREWAY - LIBR CONF A126			540	20	29	30	20			720	RECEP - FASHION LAB E104
USB WIREWAY - LIBR CONF A126	540			20	31	32	20	360			QUAD RECEP - FASHION LAB E104
PRINTER - LIBR CONF A126		1500		20	33	34	20		360		QUAD RECEP - FASHION LAB E104
IWB RECEP - FASHION LAB E104			300	20	35	36	20			360	QUAD RECEP - FASHION LAB E104
FLOOR BOX A1 - FASION LAB E104	360			20	37	38	20	360			QUAD RECEP - FASHION LAB E104
QUAD RECEP - FASHION LAB E104		360		20	39	40	20		360		FLOOR BOX A1 - FASION LAB E104
FLOOR BOX A1 - FASION LAB E104			360	20	41	42	20			360	FLOOR BOX A1 - FASION LAB E104
FLOOR BOX A1 - FASION LAB E104	360			20	43	44	20				SPARE
SPARE				20	45	46	20				SPARE
SPARE				20	47	48	20				SPARE
SPARE				20	49	50	20				SPARE
SPARE				20	51	52	20				SPARE
SPARE				20	53	54	20				SPARE
SUBTOTAL	3960	5340	3360					3420	2580	3420	SUBTOTAL

NOTES:
TOTAL WATTS L1: 7380
TOTAL WATTS L2: 7920
TOTAL WATTS L3: 6780
TOTAL WATTS: 22080
C.B. TYPE — TOTAL AMPS @ 100%: 61 AMPS
S=SHUNT TRIP G=GFCI — TOTAL AMPS @ 125%: 77 AMPS
L=LOCK ON C.B. H=HACR C.B.
AF=ARC FAULT — TOTAL PANEL RECPT LOAD = 18480 WATTS

PANELBOARD: P2N1A4

BUS SIZE: 125 AMPS — MAIN: MLO
VOLTAGE: 208 Y/120V 3PH,4W — NEUTRAL: 100%
SERVICE RATED: NO — LOCATION: ELEC A174
ISOLATED GND BUS: NO — MOUNTING: SURFACE
SHORT CIR. CURRENT RATING 22000 AMPS — TVSS: NO

DIRECTORY	WATTS OF LOAD L1	L2	L3	CKT BKR AMPS	POLES	POLES	CKT BKR AMPS	WATTS OF LOAD L1	L2	L3	DIRECTORY
FLOOR BOX A2 - SALES A114	360			20	1	2	20	660			LCD - CONFERENCE A112
RECEP - SALES KIOSK A114		360		20	3	4	20		720		RECEP - CONFERENCE A112
RECEP - STUD SERV A116			180	20	5	6	20			360	RECEP - CONFERENCE A112
RECEP - STUD SERV A116	720			20	7	8	20	720			RECEP - PRINCIPAL OFF. A109
RECEP - TEACHER'S ROOM A118		360		20	9	10	20		540		RECEP - WAITING A110
RECEP - TEACHER'S ROOM A118			540	20	11	12	20			720	RECEP - WAITING A110A
COPIER - TEACHER'S ROOM A118	1500			20	13	14	20	360			QUAD RECEP - WAITING A110
RECEP - ASST DIRECTOR A117		720		20	15	16	20		180		RECEP - OFFICE D111
RECEP - GUIDANCE A115			720	20	17	18	20			180	RECEP - OFFICE D111
RECEP - OFFICE A113	720			20	19	20	20	180			RECEP - OFFICE D111
RECEP - DIRECTOR A111		720		20	21	22	20		180		RECEP - OFFICE D111
IWB RECEP - CLASSROOM D113			300	20	23	24	20			540	RECEP - OFFICE D111
RECEP - CLASSROOM D113	720			20	25	26	20	1500			COPIER - RECEPTION A101
RECEP - CLASSROOM D113		720		20	27	28	20		1500		COPIER - CORRIDOR A108
RECEP - CORRIDOR			1080	20	29	30	20			900	RECEP - CORRIDOR A108
RECEP - DEAN STUDENTS A102	720			20	31	32	20	360			QUAD RECEP - WORK AREA A108A
RECEP - TRUANT A103		720		20	33	34	20		720		RECEP - PRINCIPAL CONF. A107
RECEP - RECORDS A105			720	20	35	36	20			660	FLOOR BOX A3/LCD - CONF. A107
RECEP - KITCHENETTE A106	540			20	37	38	20	30			LTG - RECEPTION A101A - P5
MICROWAVE - KITCHENETTE A106		1100		20	39	40	20		600		LCD (2) - CORRIDOR
CNTR RECEP - KITCHENETTE A106			1500	20	41	42	20G			1500	REFRIGERATOR - KITCHEN A106
SPARE				20	43	44	20				SPARE
SPARE				20	45	46	20				SPARE
SPARE				20	47	48	20				SPARE
SPARE				20	49	50	20				SPARE
SPARE				20	51	52	20				SPARE
SPARE				20	53	54	20				SPARE
SUBTOTAL	5280	4700	5040					3810	4440	4860	SUBTOTAL

NOTES:
TOTAL WATTS L1: 9090
TOTAL WATTS L2: 9140
TOTAL WATTS L3: 9900
TOTAL WATTS: 28130
C.B. TYPE — TOTAL AMPS @ 100%: 78 AMPS
S=SHUNT TRIP G=GFCI — TOTAL AMPS @ 125%: 98 AMPS
L=LOCK ON C.B. H=HACR C.B.
AF=ARC FAULT — TOTAL PANEL RECPT LOAD = 18720 WATTS

PANELBOARD: P2N1A5

BUS SIZE: 225 AMPS — MAIN: MLO
VOLTAGE: 208 Y/120V 3PH,4W — NEUTRAL: 100%
SERVICE RATED: NO — LOCATION: AUD. STAGE/BACK STAGE A183
ISOLATED GND BUS: NO — MOUNTING: SURFACE
SHORT CIR. CURRENT RATING 22000 AMPS — TVSS: NO

DIRECTORY	WATTS OF LOAD L1	L2	L3	CKT BKR AMPS	POLES	POLES	CKT BKR AMPS	WATTS OF LOAD L1	L2	L3	DIRECTORY
	3600				1	2		3600			
208-VOLT RIGGING POWER		3600		30	3	4	30		3600		208-VOLT RIGGING POWER
			3600		5	6				3600	
	3600				7	8		3600			
208-VOLT RIGGING POWER		3600		30	9	10	30		3600		208-VOLT RIGGING POWER
			3600		11	12				3600	
					13	14	20	720			RECEP - AUDITORIUM - A181
SPARE				20	15	16	20		900		RECEP - AUDITORIUM - A181
					17	18	20			900	RECEP - AUDITORIUM - A181
BACK STAGE LVC1 - A183	1200			20	19	20	20	720			LEVEL 2 AUDITORIUM RECEP
CONTROL BOOTH AV JB POWER		1000		20	21	22	20		360		CONTROL BOOTH RECEP - A282
CONTROL BOOTH AV JB POWER			1000	20	23	24	20			360	CONTROL BOOTH RECEP - A282
CONTROL BOOTH AV JB POWER	1000			20	25	26	20	360			CONTROL BOOTH QUAD RECEP
CONTROL BOOTH AV JB POWER		1000		20	27	28	20		360		CONTROL BOOTH QUAD RECEP
PROJECTOR POWER			1200	20	29	30	20			360	CONTROL BOOTH QUAD RECEP
RECEP - BACK STAGE - A183	540			20	31	32	20	360			CONTROL BOOTH QUAD RECEP
RECEP - BACK STAGE - A183		540		20	33	34	20		500		THEATER PANEL PP2 CIRCUIT
RECEP - BACK STAGE - A183			540	20	35	36	20			500	THEATER PANEL PP2 CIRCUIT
RECEP - BACK STAGE - A183	720			20	37	38	20	500			THEATER PANEL PP2 CIRCUIT
RECEP - BACK STAGE - A183		1260		20	39	40	20		500		THEATER PANEL PP2 CIRCUIT
THEATER PANEL PP1 CIRCUIT			500	20	41	42	20			500	THEATER PANEL PP2 CIRCUIT
THEATER PANEL PP1 CIRCUIT	500			20	43	44	20	500			THEATER PANEL PP2 CIRCUIT
THEATER PANEL PP1 CIRCUIT		500		20	45	46	20		360		STAGE FLOOR BOX W1 POWER
THEATER PANEL PP1 CIRCUIT			500	20	47	48	20			360	STAGE FLOOR BOX W1 POWER
THEATER PANEL PP1 CIRCUIT	500			20	49	50	20	864			UNIT HEATER CUH-22
THEATER PANEL PP1 CIRCUIT		500		20	51	52	20		540		RECEP - AUDITORIUM - CATWALK
RECEP - AUDITORIUM - A181			1080	20	53	54	20			360	STAGE FLOOR BOX W1 POWER
SUBTOTAL	11660	12000	12020					11224	10720	10540	SUBTOTAL

NOTES:
TOTAL WATTS L1: 22884
TOTAL WATTS L2: 22720
TOTAL WATTS L3: 22560
TOTAL WATTS: 68164
C.B. TYPE — TOTAL AMPS @ 100%: 189 AMPS
S=SHUNT TRIP G=GFCI — TOTAL AMPS @ 125%: 237 AMPS
L=LOCK ON C.B. H=HACR C.B.
AF=ARC FAULT — TOTAL PANEL RECPT LOAD = 10620 WATTS

PANELBOARD: P2N1A6

BUS SIZE: 150 AMPS — MAIN: MLO
VOLTAGE: 208 Y/120V 3PH,4W — NEUTRAL: 100%
SERVICE RATED: NO — LOCATION: WEIGHT ROOM F125
ISOLATED GND BUS: NO — MOUNTING: RECESSED
SHORT CIR. CURRENT RATING 22000 AMPS — TVSS: NO

DIRECTORY	WATTS OF LOAD L1	L2	L3	CKT BKR AMPS	POLES	POLES	CKT BKR AMPS	WATTS OF LOAD L1	L2	L3	DIRECTORY
					1	2					
SPARE				20	3	4	20				SPARE
					5	6					
					7	8	30	3250			DRYER RECEP - TRAINING F127
SPARE				20	9	10			3250		
					11	12	20G			1500	WASHER RECEP - TRAINING F127
VENDING MACHINE RECEP - F101	1500			20G	13	14	20	900			RECEP - CORRIDOR F101
VENDING MACHINE RECEP - F101		1500		20G	15	16	20		720		RECEP - CORRIDOR F128
VENDING MACHINE RECEP - F101			1500	20G	17	18	20			840	UNIT HEATERS CUH-17 & 18
VENDING MACHINE RECEP - F101	1500			20G	19	20	20	300			LCD RECEP - TRAINING F127
VENDING MACHINE RECEP - F101		1500		20G	21	22	20		1500		ICE MACHINE - TRAINING F127
VENDING MACHINE RECEP - F101			1500	20G	23	24	20			720	RECEP - TRAINING F127
VENDING MACHINE RECEP - F101	1500			20G	25	26	20	900			RECEP - TRAINING F127
RECEP - WRESTLING F126		540		20	27	28	20		300		LCD RECEP - HEALTH LAB F123
LCD RECEP - WEIGHT RM F125			300	20	29	30	20			300	LCD RECEP - HEALTH LAB F123
LCD RECEP - WEIGHT RM F125	300			20	31	32	20	720			RECEP - HEALTH LAB F123
RECEP - WEIGHT ROOM F125		540		20	33	34	20		720		RECEP - HEALTH LAB F123
RECEP - WEIGHT ROOM F125			540	20	35	36	20			360	FLR BOX D2 REC - HEALTH F123
RECEP - WEIGHT ROOM F125	720			20	37	38	20	360			FLR BOX D2 REC - HEALTH F123
IWB RECEP - CLASSROOM F121		300		20	39	40	20		360		FLR BOX D2 REC - HEALTH F123
RECEP - CLASSROOM F121			360	20	41	42	20			360	FLR BOX D2 REC - HEALTH F123
RECEP - CLASSROOM F121	540			20	43	44	20	360			FLR BOX D2 REC - HEALTH F123
RECEP - CLASSROOM F121		540		20	45	46	20		900		RECEP - WRESTLING F126
FLR BOX D2 REC - HEALTH F123			360	20	47	48	20			540	RECEP - WRESTLING F126
FLR BOX D2 REC - HEALTH F123	360			20	49	50	20	360			FLR BOX D2 REC - HEALTH F123
SPARE				20	51	52	20				SPARE
SPARE				20	53	54	20				SPARE
SUBTOTAL	6420	4920	4560					7150	7750	4620	SUBTOTAL

NOTES:
TOTAL WATTS L1: 13570
TOTAL WATTS L2: 12670
TOTAL WATTS L3: 9180
TOTAL WATTS: 35420
C.B. TYPE — TOTAL AMPS @ 100%: 98 AMPS
S=SHUNT TRIP G=GFCI — TOTAL AMPS @ 125%: 123 AMPS
L=LOCK ON C.B. H=HACR C.B.
AF=ARC FAULT — TOTAL PANEL RECPT LOAD = 9900 WATTS

PANELBOARD: P2N1A7

BUS SIZE: 225 AMPS — MAIN: MLO
VOLTAGE: 208 Y/120V 3PH,4W — NEUTRAL: 100%
SERVICE RATED: NO — LOCATION: CUSTODIAL F116
ISOLATED GND BUS: NO — MOUNTING: SURFACE
SHORT CIR. CURRENT RATING 22000 AMPS — TVSS: NO

DIRECTORY	WATTS OF LOAD L1	L2	L3	CKT BKR AMPS	POLES	POLES	CKT BKR AMPS	WATTS OF LOAD L1	L2	L3	DIRECTORY
	1801				1	2		1801			
BLEACHER BANK #1 - F102		1801		20	3	4	20		1801		BLEACHER BANK #2 - F102
			1801		5	6				1801	
	1801				7	8					
BLEACHER BANK #3 - F122		1801		20	9	10	30				SPARE
			1801		11	12					
					13	14					
SPARE				30	15	16	30				SPARE
					17	18					
					19	20					
SPARE				20	21	22	20				SPARE
					23	24					
GFCI RECEPTACLES - ROOF - F1	540			20	25	26	20	720			RECEP - CAMERA - 2ND FL - F102
BASKETBALL BACKBOARD BB1		1176		20	27	28	20		1176		BASKETBALL BACKBOARD BB2
BASKETBALL BACKBOARD BB3			1176	20	29	30	20			1176	BASKETBALL BACKBOARD BB4
BASKETBALL BACKBOARD BB5	1176			20	31	32	20	1176			BASKETBALL BACKBOARD BB6
BASKETBALL BACKBOARD BB7		1176		20	33	34	20		1176		BASKETBALL BACKBOARD BB8
BASKETBALL BACKBOARD BB9			1176	20	35	36	20			1176	BASKETBALL BACKBOARD BB10
DIVIDER CURTAIN DC1	1656			20	37	38	20	1656			DIVIDER CURTAIN DC2
SCOREBOARD - MAIN GYM F102		1200		20	39	40	20		840		UNIT HEATERS CUH-13 & 16
SCOREBOARD - MAIN GYM F102			1200	20	41	42	20			840	UNIT HEATERS CUH-14 & 15
SCOREBOARD - PRACTICE F122	1200			20	43	44	20	360			CAMERA RECEP - PRACTICE F122
FLOOR BOX A4 - MAIN GYM F102		360		20	45	46	20		360		CAMERA RECEP - MAIN GYM F102
RECEP - MAIN GYM F102			540	20	47	48	20			720	RECEP - SRO OFFICE F100
RECEP - STORAGE F102A	540			20	49	50	20	720			RECEP - RECEPTION F106
RECEP - MAIN GYM F102		720		20	51	52	20		720		RECEP - A.D. OFFICE F106A
RECEP - PRACTICE GYM F122			720	20	53	54	20			540	RECEP - STORAGE F112
RECEP - PRACTICE GYM F122	720			20	55	56	20	1440			RECEP - STORAGE F122A
FLOOR BOX A4 - PRACTICE F122		360		20	57	58	20		1260		RECEP - EXTERIOR
RECEP - SHOWER ROOM F145A			360	20	59	60	20			180	RECEP - SHOWER ROOM F135A
RECEP - PE OFFICE F144	720			20	61	62	20	180			RECEP - SHOWER ROOM F135A
RECEP - FACULTY BATH F143		180		20	63	64	20		720		RECEP - LOCKER ROOM F131
RECEP - COACHES OFFICE F142			720	20	65	66	20			720	RECEP - COACHES OFFICE F134
RECEP - LOCKER ROOM F145	720			20	67	68	20	180			RECEP - FACULTY BATH F133
RECEP - SHOWER ROOM F141A		180		20	69	70	20		720		RECEP - PE OFFICE F132
RECEP - SHOWER ROOM F141A			180	20	71	72	20			360	RECEP - SHOWER ROOM F131A
JUNCTION - PROJ. SCREEN - F122	500			20	73	74	20	360			QUAD RECEP - RACK - F112
JUNCTION - DAMPERS - F119		400		20	75	76	20		300		HEATER PUH-37
SPARE				20	77	78	20				SPARE
SPARE				20	79	80	20				SPARE
SPARE				20	81	82	20				SPARE
SPARE				20	83	84	20				SPARE
SUBTOTAL	11374	9354	9674					8593	9073	7513	SUBTOTAL

NOTES:
TOTAL WATTS L1: 19967
TOTAL WATTS L2: 18427
TOTAL WATTS L3: 17187
TOTAL WATTS: 55581
C.B. TYPE — TOTAL AMPS @ 100%: 154 AMPS
S=SHUNT TRIP G=GFCI — TOTAL AMPS @ 125%: 193 AMPS
L=LOCK ON C.B. H=HACR C.B.
AF=ARC FAULT — TOTAL PANEL RECPT LOAD = 16020 WATTS

PANELBOARD: L4N1E1

BUS SIZE: 125 AMPS — MAIN: MLO
VOLTAGE: 480 Y/277V 3PH,4W — NEUTRAL: 100%
SERVICE RATED: NO — LOCATION: ELEC E127B
ISOLATED GND BUS: NO — MOUNTING: SURFACE
SHORT CIR. CURRENT RATING 18000 AMPS — TVSS: NO

DIRECTORY	WATTS OF LOAD L1	L2	L3	CKT BKR AMPS	POLES	POLES	CKT BKR AMPS	WATTS OF LOAD L1	L2	L3	DIRECTORY
LTG - TOILET E135	1613			20	1	2	20	2720			LTG - HEALTH OCCUPATION E128
LTG - DATA E127A		3538		20	3	4	20		89		LTG - EXTERIOR BUILDING E
LTG - STAIR E			274	20	5	6	20			185	LTG - STAIR F
LTG - FIRE STORAGE E146	2560			20	7	8	20	1898			LTG - OFFICE E148
SITE LIGHTING CKT#1		530		20	9	10	20		57		SITE LIGHTING CKT#2
SITE LIGHTING CKT#3			267	20	11	12	20			424	SITE LIGHTING CKT#4
SITE LIGHTING CKT#5	2531			20	13	14	20	265			SITE LIGHTING CKT#6
SITE LIGHTING CKT#7		57		20	15	16	20		408		SITE LIGHTING CKT#8
SITE LIGHTING CKT#9			1564	20	17	18	20				SPARE
SPARE				20	19	20	20				SPARE
SPARE				20	21	22	20				SPARE
SPARE				20	23	24	20				SPARE
SUBTOTAL	6704	4125	2105					4883	554	609	SUBTOTAL

NOTES:
TOTAL WATTS L1: 11587
TOTAL WATTS L2: 4679
TOTAL WATTS L3: 2714
TOTAL WATTS: 18980
C.B. TYPE — TOTAL AMPS @ 100%: 23 AMPS
S=SHUNT TRIP G=GFCI — TOTAL AMPS @ 125%: 29 AMPS
L=LOCK ON C.B. H=HACR C.B.
AF=ARC FAULT — TOTAL PANEL RECPT LOAD = 0 WATTS

PANELBOARD: D2N1E1

BUS SIZE: 400 AMPS — MAIN: 400 AMP MCB ELECTRONIC TRIP
VOLTAGE: 208 Y/120V 3PH,4W — NEUTRAL: 100%
SERVICE RATED: NO — LOCATION: ELEC E127B
ISOLATED GND BUS: NO — MOUNTING: SURFACE
SHORT CIR. CURRENT RATING 22000 AMPS — TVSS: NO

DIRECTORY	WATTS OF LOAD L1	L2	L3	CKT BKR AMPS	POLES	POLES	CKT BKR AMPS	WATTS OF LOAD L1	L2	L3	DIRECTORY
	7815				1	2		9390			
PANEL P2N1E1		7700		125	3	4	125		10610		PANEL P2N1E2
			7760		5	6				7900	
	11209				7	8					
PANEL P2N1E3		12447		150ET	9	10	125				SPARE
			10609		11	12					
					13	14					
SPARE				60	15	16	50				SPARE
					17	18					
					19	20					
SPACE					21	22					SPACE
					23	24					
SUBTOTAL	19024	20147	18369					9390	10610	7900	SUBTOTAL

NOTES:
TOTAL WATTS L1: 28414
TOTAL WATTS L2: 30757
TOTAL WATTS L3: 26269
TOTAL WATTS: 85440
C.B. TYPE — TOTAL AMPS @ 100%: 237 AMPS
S=SHUNT TRIP G=GFCI — TOTAL AMPS @ 125%: 297 AMPS
L=LOCK ON C.B. H=HACR C.B.
AF=ARC FAULT — TOTAL PANEL RECPT LOAD = 0 WATTS

PANELBOARD: P2N1E1

BUS SIZE: 125 AMPS — MAIN: MLO
VOLTAGE: 208 Y/120V 3PH,4W — NEUTRAL: 100%
SERVICE RATED: NO — LOCATION: ELEC E127B
ISOLATED GND BUS: NO — MOUNTING: SURFACE
SHORT CIR. CURRENT RATING 22000 AMPS — TVSS: NO

DIRECTORY	WATTS OF LOAD L1	L2	L3	CKT BKR AMPS	POLES	POLES	CKT BKR AMPS	WATTS OF LOAD L1	L2	L3	DIRECTORY
RECEP - ELECT ROOM E127B	360			20	1	2	20	720			RECEP - OFFICE E151
RECEP - CUSTODIAL E131		720		20	3	4	20		540		RECEP - OFFICE E148
RECEP - CORRIDOR			1260	20	5	6	20			360	QUAD RECEP - OFFICE E148
RECEP - BRIDGES COMMON E150	360			20	7	8	20	300			IWB RECEP - CLASSROOM E152
RECEP - BRIDGES COMMON E150		720		20	9	10	20		720		RECEP - CLASSROOM E152
DISHWASHER - BRIDGE COM E150			1500	20G	11	12	20			720	RECEP - CLASSROOM E152
REFRIG. - BRIDGE COM E150	1500			20G	13	14	20	300			IWB RECEP - CLASSROOM E153
MICROWAVE - BRIDGE COM E150		1100		20	15	16	20		720		RECEP - CLASSROOM E153
COPIER - BRIDGE COM E150			1200	20	17	18	20			720	RECEP - CLASSROOM E153
CNTR RECEP - BRIDGE COM E150	1500			20	19	20	20	720			RECEP - OFFICE E158
IWB RECEP - CLASSROOM E157		300		20	21	22	20		720		RECEP - OFFICE E159
QUAD RECEP - CLASSROOM E157			360	20	23	24	20			300	LCD - SMALL GROUP E155
QUAD RECEP - CLASSROOM E157	360			20	25	26	20	540			RECEP - SMALL GROUP E155
CNTR RECEP - CLASSROOM E157		360		20	27	28	20		720		RECEP - SMALL GROUP E155
CNTR RECEP - CLASSROOM E157			540	20	29	30	20			300	LCD - SMALL GROUP E156
RECEP - CLASSROOM E157	540			20	31	32	20	540			RECEP - SMALL GROUP E156
RECEP - CLASSROOM E157		540		20	33	34	20		540		RECEP - SMALL GROUP E156
LCP1 - ELEC E127B			200	20	35	36	20			300	LCD - BRIDGE COM E150
FAN DBF-E126A	75			20	37	38	20				SPARE
SPARE				20	39	40	20				SPARE
SPARE				20	41	42	20				SPARE
SPARE				20	43	44	20				SPARE
SPARE				20	45	46	20				SPARE
SPARE				20	47	48	20				SPARE
SPARE				20	49	50	20				SPARE
SPARE				20	51	52	20				SPARE
SPARE				20	53	54	20				SPARE
SUBTOTAL	4695	3740	5060					3120	3960	2700	SUBTOTAL

NOTES:
TOTAL WATTS L1: 7815
TOTAL WATTS L2: 7700
TOTAL WATTS L3: 7760
TOTAL WATTS: 23275
C.B. TYPE — TOTAL AMPS @ 100%: 65 AMPS
S=SHUNT TRIP G=GFCI — TOTAL AMPS @ 125%: 81 AMPS
L=LOCK ON C.B. H=HACR C.B.
AF=ARC FAULT — TOTAL PANEL RECPT LOAD = 14400 WATTS

PANELBOARD: P2N1E2

BUS SIZE: 125 AMPS — MAIN: MLO
VOLTAGE: 208 Y/120V 3PH,4W — NEUTRAL: 100%
SERVICE RATED: NO — LOCATION: ELEC E127B
ISOLATED GND BUS: NO — MOUNTING: SURFACE
SHORT CIR. CURRENT RATING 22000 AMPS — TVSS: NO

DIRECTORY	WATTS OF LOAD L1	L2	L3	CKT BKR AMPS	POLES	POLES	CKT BKR AMPS	WATTS OF LOAD L1	L2	L3	DIRECTORY
DRYER RECEP - STORAGE E126A	3250			30	1	2	20	720			RECEP - PATH LIBRARY E120A
		3250			3	4	20		300		LCD - PATH LIBRARY E120A
WASHER REC - STORAGE E126A			1500	20G	5	6	20			300	IWB RECEP - HEALTH OCC E118
IWB RECEP - CLASSROOM E123A	300			20	7	8	20	540			RECEP - HEALTH OCC E118
RECEP - CLASSROOM E123A		540		20	9	10	20		720		RECEP - HEALTH OCC E118
RECEP - CLASSROOM E123A			720	20	11	12	20			540	RECEP - HEALTH OCC E118
IWB RECEP - CLASSROOM E123B	300			20	13	14	20	360			CNTR RECEP - HEALTH OCC E118
RECEP - CLASSROOM E123B		540		20	15	16	20		360		CNTR RECEP - HEALTH OCC E118
RECEP - CLASSROOM E123B			720	20	17	18	20			300	IWB RECEP - HEALTH OCC E128
IWB RECEP - CLASSROOM E127	300			20	19	20	20	720			RECEP - HEALTH OCC E128
RECEP - CLASSROOM E127		540		20	21	22	20		720		RECEP - HEALTH OCC E128
RECEP - CLASSROOM E127			540	20	23	24	20			540	RECEP - HEALTH OCC E128
RECEP - CLASSROOM E127	540			20	25	26	20	360			CNTR RECEP - HEALTH OCC E128
IWB RECEP - CLASSROOM E121		300		20	27	28	20		360		CNTR RECEP - HEALTH OCC E128
RECEP - CLASSROOM E121			720	20	29	30	20			540	RECEP - TOILET E128A
RECEP - CLASSROOM E121	720			20	31	32	20	720			RECEP - STORAGE E126A
RECEP - OFFICE E122		720		20	33	34	15G		1500		WHIRLPOOL - TOILET E118A
RECEP - OFFICE E124			720	20	35	36	20			360	FLOOR BOX A1 - LIBRARY E120A
LTG - PATHWAY LIBRARY E120A	200			20	37	38	20	360			FLOOR BOX A1 - LIBRARY E120A
FLOOR BOX A1 - LIBRARY E120A		360		20	39	40	20		400		HEAT TRACE - HEALTH E128
JUNCTION - DAMPERS - E120			400	20	41	42	20				SPARE
SPARE				20	43	44	20				SPARE
SPARE				20	45	46	20				SPARE
SPARE				20	47	48	20				SPARE
SPARE				20	49	50	20				SPARE
SPARE				20	51	52	20				SPARE
SPARE				20	53	54	20				SPARE
SUBTOTAL	5610	6250	5320					3780	4360	2580	SUBTOTAL

NOTES:
TOTAL WATTS L1: 9390
TOTAL WATTS L2: 10610
TOTAL WATTS L3: 7900
TOTAL WATTS: 27900
C.B. TYPE — TOTAL AMPS @ 100%: 78 AMPS
S=SHUNT TRIP G=GFCI — TOTAL AMPS @ 125%: 97 AMPS
L=LOCK ON C.B. H=HACR C.B.
AF=ARC FAULT — TOTAL PANEL RECPT LOAD = 15300 WATTS

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Sanford School Department and State of Maine Department of Education

SANFORD HIGH SCHOOL and TECHNICAL CENTER

SANFORD, ME 04073

NO.	DESCRIPTION	DATE

FOR ADDITIONAL INFORMATION, REFER TO PROJECT MANUAL.

CONTENT: PANELBOARD SCHEDULES
DRAWN BY: C. NEWELL
PROJECT NO: 12-067-00
DATE: 02/11/2016
REVISED:
SCALE: NO SCALE

E0.11

Project Phase
BID DOCUMENTS

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DRAWING NOTES

1 THE FOLLOWING NOTES ONLY APPLY TO THIS DRAWING.

2 REFER TO GENERAL NOTES, ELECTRICAL TRADE NOTES, LEGEND AND ABBREVIATIONS ON DRAWING E0.01.

PANELBOARD: P2N1E3

BUS SIZE:	150 AMPS	MAIN:	150 AMP MCB
VOLTAGE:	208 Y/120V 3PH,4W	NEUTRAL:	100%
SERVICE RATED:	NO	LOCATION:	CIRC. E140B
ISOLATED GND BUS:	NO	MOUNTING:	SURFACE
SHORT CIR. CURRENT RATING	22000 AMPS	TVSS:	NO

DIRECTORY	WATTS OF LOAD L1	WATTS OF LOAD L2	WATTS OF LOAD L3	CKT BKR AMPS	POLES	POLES	CKT BKR AMPS	WATTS OF LOAD L1	WATTS OF LOAD L2	WATTS OF LOAD L3	DIRECTORY
	3002				1	2		2005			
FUTURE - SCUBA COMPRESSOR		3002		60	3	4	30		2005		AIR COMPRESSOR PAC-4
STORAGE E146			3002		5	6				2005	
					7	8	20				SPARE
SPARE				20	9	10					
					11	12	20				SPARE
SPARE				20	13	14					
					15	16	30		1920		EXHAUST VE-5
SPARE				15	17	18	30			1920	EXHAUST VE-6
					19	20	20	1200			MOCK FACP - FIRE DRILL E242
DRYER RAD-4		1200		20	21	22	20		720		RECEP - FIRE SCIENCE E140
OVERHEAD DOOR - E140A			862	20	23	24	20			540	RECEP - EMS SIMULATOR E143A
OVERHEAD DOOR - E140A	862			20	25	26	20	540			RECEP - EMS SIMULATOR E143A
WASHER RECEP - STORAGE E146		1500		20G	27	28	20		720		RECEP - GEAR STORAGE E243
IWB RECEP - INSTRUCTION E143			300	20	29	30	20			360	RECEP - STORAGE E146
RECEP - INSTRUCTION E143	540			20	31	32	20	1080			RECEP - CIRC E140B
RECEP - INSTRUCTION E143		540		20	33	34	20				SPARE
RECEP - OFFICE E145A			540	20	35	36	20				SPARE
RECEP - OFFICE E145B	540			20	37	38	20				SPARE
IWB RECEP - INSTRUCTION E142		300		20	39	40	20				SPARE
RECEP - INSTRUCTION E142			540	20	41	42	20				SPARE
RECEP - INSTRUCTION E142	720			20	43	44	20				SPARE
RECEP - FIRE DRILL E242		540		20	45	46	20				SPARE
RECEP - FIRE DRILL E242			540	20	47	48	20				SPARE
RECEP - FIRE DRILL E242	720			20	49	50	20				SPARE
SPARE				20	51	52	20				SPARE
SPARE				20	53	54	20				SPARE
SUBTOTAL	6384	7082	5784					4825	5365	4825	SUBTOTAL

NOTES:	TOTAL WATTS L1:	11209
	TOTAL WATTS L2:	12447
	TOTAL WATTS L3:	10609
	TOTAL WATTS:	34265
C.B. TYPE	TOTAL AMPS @ 100%:	95 AMPS
S=SHUNT TRIP G=GFCI	TOTAL AMPS @ 125%:	119 AMPS
L=LOCK ON C.B. H=HACR C.B.		
AF=ARC FAULT	TOTAL PANEL RECPT LOAD =	9180 WATTS

PANELBOARD: P2N2D4

BUS SIZE:	125 AMPS	MAIN:	MLO
VOLTAGE:	208 Y/120V 3PH,4W	NEUTRAL:	100%
SERVICE RATED:	NO	LOCATION:	ELEC D247
ISOLATED GND BUS:	NO	MOUNTING:	SURFACE
SHORT CIR. CURRENT RATING	22000 AMPS	TVSS:	NO

DIRECTORY	WATTS OF LOAD L1	WATTS OF LOAD L2	WATTS OF LOAD L3	CKT BKR AMPS	POLES	POLES	CKT BKR AMPS	WATTS OF LOAD L1	WATTS OF LOAD L2	WATTS OF LOAD L3	DIRECTORY
GFCI RECEPTACLES - ROOF - D	900			20	1	2	20	300			IWB RECEP - CLASSROOM D217
RECEP - CORRIDOR D220		1260		20	3	4	20		720		RECEP - CLASSROOM D217
IWB RECEP - NETWORK SYS D212			300	20	5	6	20			720	RECEP - CLASSROOM D217
RECEP - NETWORK SYS D212	720			20	7	8	20	300			IWB RECEP - CLASSROOM D213
RECEP - NETWORK SYS D212		540		20	9	10	20		720		RECEP - CLASSROOM D213
RECEP - NETWORK SYS D212			540	20	11	12	20			720	RECEP - CLASSROOM D213
QUAD RECEP - NETWK SYS D212	360			20	13	14	20	540			RECEP DESK - NETWK SYS D212
QUAD RECEP - NETWK SYS D212		360		20	15	16	20		540		RECEP DESK - NETWK SYS D212
QUAD RECEP - NETWK SYS D212			360	20	17	18	20			540	RECEP DESK - NETWK SYS D212
QUAD RECEP - NETWK SYS D212	360			20	19	20	20	540			RECEP DESK - NETWK SYS D212
RECEP - SERV INSTRUCT D212A		540		20	21	22	20		540		RECEP DESK - NETWK SYS D212
RECEP - SERV INSTRUCT D212A			540	20	23	24	20			540	RECEP DESK - NETWK SYS D212
QUAD RECEP - SERV INSTR D212A	360			20	25	26	20	720			RECEP - OFFICE D214
QUAD RECEP - SERV INSTR D212A		360		20	27	28	20		720		RECEP - PRINT LAB D210
QUAD RECEP - SERV INSTR D212A			360	20	29	30	20			360	RECEP - PRINT LAB D210
VENDING RECEP - CORRIDOR	1500			20G	31	32	20	1500			PLOTTER - PRINT LAB D210
VENDING RECEP - CORRIDOR		1500		20G	33	34	20		1500		PLOTTER - PRINT LAB D210
VENDING RECEP - CORRIDOR			1500	20G	35	36	20			1500	COPIER - PRINT LAB D210
VENDING RECEP - CORRIDOR	1500			20G	37	38	20	200			LCP6 - ELEC D247
RECEP - LG MTG A239		540		20	39	40	20		300		LCD - LG MTG A239
FLOOR BOX B1 - LG MTG A239			360	20	41	42	20			540	RECEP - LG MTG A239
RECEP - STORAGE D201	900			20	43	44	20	360			QUAD RECEP - OFFICE D225
RECEP - OFFICE D225		720		20	45	46	20		720		RECEP - OFFICE D221
RECEP - OFFICE D221			540	20	47	48	20				SPARE
SPARE				20	49	50	20				SPARE
SPARE				20	51	52	20				SPARE
SPARE				20	53	54	20				SPARE
SUBTOTAL	6600	5820	4500					4460	5760	4920	SUBTOTAL

NOTES:	TOTAL WATTS L1:	11060
	TOTAL WATTS L2:	11580
	TOTAL WATTS L3:	9420
	TOTAL WATTS:	32060
C.B. TYPE	TOTAL AMPS @ 100%:	89 AMPS
S=SHUNT TRIP G=GFCI	TOTAL AMPS @ 125%:	111 AMPS
L=LOCK ON C.B. H=HACR C.B.		
AF=ARC FAULT	TOTAL PANEL RECPT LOAD =	20160 WATTS

PANELBOARD: M4N2C1

BUS SIZE:	600 AMPS	MAIN:	MLO
VOLTAGE:	480 Y/277V 3PH,4W	NEUTRAL:	100%
SERVICE RATED:	NO	LOCATION:	ELEC C223A
ISOLATED GND BUS:	NO	MOUNTING:	SURFACE
SHORT CIR. CURRENT RATING	35000 AMPS	TVSS:	NO

DIRECTORY	WATTS OF LOAD L1	WATTS OF LOAD L2	WATTS OF LOAD L3	CKT BKR AMPS	POLES	POLES	CKT BKR AMPS	WATTS OF LOAD L1	WATTS OF LOAD L2	WATTS OF LOAD L3	DIRECTORY
	20840				1	2		39408			
UNIT DHU-2		20840		90	3	4	150		39408		UNIT DHU-3
			20840		5	6				39408	
	30817				7	8		30817			
UNIT DHU-4		30817		125	9	10	125		30817		UNIT DHU-5
			30817		11	12				30817	
					13	14					
SPARE				100	15	16	50				SPARE
					17	18					
					19	20					
SPARE				30	21	22	20				SPARE
					23	24					
SPARE				20	25	26	20				SPARE
SPARE				20	27	28	20				SPARE
SPARE				20	29	30	20				SPARE
SUBTOTAL	51657	51657	51657					70225	70225	70225	SUBTOTAL

NOTES:	TOTAL WATTS L1:	121882
	TOTAL WATTS L2:	121882
	TOTAL WATTS L3:	121882
	TOTAL WATTS:	365646
C.B. TYPE	TOTAL AMPS @ 100%:	440 AMPS
S=SHUNT TRIP G=GFCI	TOTAL AMPS @ 125%:	550 AMPS
L=LOCK ON C.B. H=HACR C.B.		
AF=ARC FAULT	TOTAL PANEL RECPT LOAD =	0 WATTS

PANELBOARD: L4N2C1

BUS SIZE:	125 AMPS	MAIN:	MLO
VOLTAGE:	480 Y/277V 3PH,4W	NEUTRAL:	100%
SERVICE RATED:	NO	LOCATION:	ELEC C223A
ISOLATED GND BUS:	NO	MOUNTING:	SURFACE
SHORT CIR. CURRENT RATING	18000 AMPS	TVSS:	NO

DIRECTORY	WATTS OF LOAD L1	WATTS OF LOAD L2	WATTS OF LOAD L3	CKT BKR AMPS	POLES	POLES	CKT BKR AMPS	WATTS OF LOAD L1	WATTS OF LOAD L2	WATTS OF LOAD L3	DIRECTORY
LTG - CORRIDOR C220	1207			20	1	2	20	1704			LTG - CLASSROOM C205
LTG - DATA C223		2380		20	3	4	20		1697		LTG - CLASSROOM C206
SPARE				20	5	6	20			3003	LTG - OFFICE C218
SPARE				20	7	8	20				SPARE
SPARE				20	9	10	20				SPARE
SPARE				20	11	12	20				SPARE
SPARE				20	13	14	20				SPARE
SPARE				20	15	16	20				SPARE
SPARE				20	17	18	20				SPARE
SUBTOTAL	1207	2380	0					1704	1697	3003	SUBTOTAL

NOTES:	TOTAL WATTS L1:	2911
	TOTAL WATTS L2:	4077
	TOTAL WATTS L3:	3003
	TOTAL WATTS:	9991
C.B. TYPE	TOTAL AMPS @ 100%:	12 AMPS
S=SHUNT TRIP G=GFCI	TOTAL AMPS @ 125%:	15 AMPS
L=LOCK ON C.B. H=HACR C.B.		
AF=ARC FAULT	TOTAL PANEL RECPT LOAD =	0 WATTS

PANELBOARD: D2N2C1

BUS SIZE:	600 AMPS	MAIN:	600 AMP MCB ELECTRONIC TRIP
VOLTAGE:	208 Y/120V 3PH,4W	NEUTRAL:	100%
SERVICE RATED:	NO	LOCATION:	ELEC C223A
ISOLATED GND BUS:	NO	MOUNTING:	SURFACE
SHORT CIR. CURRENT RATING	22000 AMPS	TVSS:	NO

DIRECTORY	WATTS OF LOAD L1	WATTS OF LOAD L2	WATTS OF LOAD L3	CKT BKR AMPS	POLES	POLES	CKT BKR AMPS	WATTS OF LOAD L1	WATTS OF LOAD L2	WATTS OF LOAD L3	DIRECTORY
	6600				1	2		8584			
PANEL P2N2C1		5060		125	3	4	125		8052		PANEL P2N2C2
			5040		5	6				8436	
	8015				7	8					
PANEL P2N2C3		7633		125	9	10	225				SPARE
			9455		11	12					
	793				13	14					
FAN EF-C202A		793		20	15	16	125				SPARE
			793		17	18					
UNIT ACC-2	1664			20	19	20					
		1664			21	22	50				SPARE
UNIT ACC-17			1664	20	23	24					
	1664				25	26					
SPARE				20	27	28	20				SPARE
					29	30					
SPARE				20	31	32	20	1664			UNIT ACC-15
					33	34			1664		
SPARE				20	35	36	20				SPARE
SPARE				20	37	38	20				SPARE
SPARE				20	39	40	20				SPARE
SPARE				20	41	42	20				SPARE
SUBTOTAL	18736	15150	16952					10248	9716	8436	SUBTOTAL

NOTES:	TOTAL WATTS L1:	28984
	TOTAL WATTS L2:	24866
	TOTAL WATTS L3:	25388
	TOTAL WATTS:	79238
C.B. TYPE	TOTAL AMPS @ 100%:	220 AMPS
S=SHUNT TRIP G=GFCI	TOTAL AMPS @ 125%:	275 AMPS
L=LOCK ON C.B. H=HACR C.B.		
AF=ARC FAULT	TOTAL PANEL RECPT LOAD =	0 WATTS

PANELBOARD: P2N2C1

BUS SIZE:	125 AMPS	MAIN:	MLO
VOLTAGE:	208 Y/120V 3PH,4W	NEUTRAL:	100%
SERVICE RATED:	NO	LOCATION:	ELEC C223A
ISOLATED GND BUS:	NO	MOUNTING:	SURFACE
SHORT CIR. CURRENT RATING	22000 AMPS	TVSS:	NO

DIRECTORY	WATTS OF LOAD L1	WATTS OF LOAD L2	WATTS OF LOAD L3	CKT BKR AMPS	POLES	POLES	CKT BKR AMPS	WATTS OF LOAD L1	WATTS OF LOAD L2	WATTS OF LOAD L3	DIRECTORY
IWB RECEP - CLASSROOM C205	300			20	1	2	20	720			RECEP - CORRIDOR C220
LCD (2) - CORRIDOR A220		600		20	3	4	20		300		IWB RECEP - CAREER PLAN A231
RECEP - CTE ADMIN OFFICE A234			540	20	5	6	20			1080	RECEP - CAREER PLANNING A231
RECEP - CTE ADMIN OFFICE A234	540			20	7	8	20	1500			COPIER - CAREER PLANNING A231
RECEP - PLANNER OFFICE A233		720		20	9	10	20		360		QUAD REC - CAREER PLAN A231
RECEP - PLANNER OFFICE A232			720	20	11	12	20			360	QUAD REC - CAREER PLAN A231
LCD (2) - CORRIDOR A220	600			20	13	14	20	360			QUAD REC - CAREER PLAN A231
LCP7 - ELECT C223A		200		20	15	16	20		360		QUAD REC - CAREER PLAN A231
RECEP - VP DISCIPLINE A236			720	20	17	18	20			360	QUAD REC - CAREER PLAN A231
RECEP - VP DISCIPLINE A238	720			20	19	20	20	360			QUAD REC - CAREER PLAN A231
COPIER - STUD SERV REC A237		1500		20	21	22	20		360		QUAD REC - CAREER PLAN A231
RECEP - STUD SERV REC A237			540	20	23	24	20			360	QUAD REC - CAREER PLAN A231
RECEP - STUDENT WK STA A237A	540			20	25	26	20	360			QUAD REC - CAREER PLAN A231
QUAD REC - STUD WK STA A237A		360		20	27	28	20		300		LCD - CAREER PLAN A231
QUAD REC - STUD WK STA A237A			360	20	29	30	20			720	QUAD REC - CLASSROOM C205
QUAD REC - STUD WK STA A237A	360			20	31	32	20	360			QUAD REC - CLASSROOM C205
QUAD REC - CLASSROOM C205		360		20	33	34	20		360		QUAD REC - CLASSROOM C205
QUAD REC - CLASSROOM C205			360	20	35	36	20			360	QUAD REC - CLASSROOM C205
QUAD REC - CLASSROOM C205	360			20	37	38	20	360			QUAD REC - CLASSROOM C205
QUAD REC - CLASSROOM C205		360		20	39	40	20				SPARE
SPARE				20	41	42	20				SPARE
SPARE				20	43	44	20				SPARE
SPARE				20	45	46	20				SPARE
SPARE				20	47	48	20				SPARE
SPARE				20	49	50	20				SPARE
SPARE				20	51	52	20				SPARE
SPARE				20	53	54	20				SPARE
SUBTOTAL	3420	4100	3240					4020	2040	3240	SUBTOTAL

NOTES:	TOTAL WATTS L1:	7440
	TOTAL WATTS L2:	6140
	TOTAL WATTS L3:	6480
	TOTAL WATTS:	20060
C.B. TYPE	TOTAL AMPS @ 100%:	56 AMPS
S=SHUNT TRIP G=GFCI	TOTAL AMPS @ 125%:	70 AMPS
L=LOCK ON C.B. H=HACR C.B.		
AF=ARC FAULT	TOTAL PANEL RECPT LOAD =	14760 WATTS

PANELBOARD: P2N2C2

BUS SIZE:	125 AMPS	MAIN:	MLO
VOLTAGE:	208 Y/120V 3PH,4W	NEUTRAL:	100%
SERVICE RATED:	NO	LOCATION:	ELEC C223A
ISOLATED GND BUS:	NO	MOUNTING:	SURFACE
SHORT CIR. CURRENT RATING	22000 AMPS	TVSS:	NO

DIRECTORY	WATTS OF LOAD L1	WATTS OF LOAD L2	WATTS OF LOAD L3	CKT BKR AMPS	POLES	POLES	CKT BKR AMPS	WATTS OF LOAD L1	WATTS OF LOAD L2	WATTS OF LOAD L3	DIRECTORY
GFCI RECEPTACLES - ROOF - C1	540			20	1	2	20	360			RECEP - OFFICE C225
QUAD RECEP - OFFICE C225		360		20	3	4	20		360		QUAD RECEP - OFFICE C225
QUAD RECEP - OFFICE C225			360	20	5	6	20			360	QUAD RECEP - OFFICE C225
QUAD RECEP - OFFICE C225	360			20	7	8	20	1500			COPIER - OFFICE C225
IWB RECEP - CLASSROOM C224		300		20	9	10	20		720		RECEP - CLASSROOM C224
RECEP - CLASSROOM C224			900	20	11	12	20			900	RECEP - ELEC C223A
FAN EF-C121	1176			20	13	14	20	900			RECEP - CORRIDOR C220
RECEP - BLDG STORAGE C209		540		20	15	16	20		540		RECEP - BLDG STORAGE C209
RECEP - EQUIP STORAGE C207			900	20	17	18	20			540	RECEP - OFFICE C218
QUAD RECEP - OFFICE C218	360			20	19	20	20	360			QUAD RECEP - OFFICE C218
QUAD RECEP - OFFICE C218		360		20	21	22	20		300		IWB RECEP - CLASSROOM C214
RECEP - CLASSROOM C214			720	20	23	24	20			900	RECEP - CLASSROOM C214
IWB RECEP - CLASSROOM C212	300			20	25	26	20	720			RECEP - CLASSROOM C212
RECEP - CLASSROOM C212		720		20	27	28	20		300		IWB RECEP - CLASSROOM C208
RECEP - CLASSROOM C208			720	20	29	30	20			720	RECEP - CLASSROOM C208
IWB RECEP - CLASSROOM C206	300			20	31	32	25	1656			FAN CEF-C110
RECEP - CLASSROOM C206		720		20	33	34	25		1656		FAN CEF-C114
RECEP - CLASSROOM C206			720	20	35	36	20			696	FAN EF-C134
JUNCTION - DAMPERS - C220	400			20	37	38	20	528			FAN EF-C223A
SPARE				20	39	40	20				SPARE
SPARE				20	41	42	20				SPARE
SPARE				20	43	44	20				SPARE
SPARE				20	45	46	20				SPARE
SPARE				20	47	48	20				SPARE
SPARE				20	49	50	20				SPARE
SPARE				20	51	52	20				SPARE
SPARE				20	53	54	20				SPARE
SUBTOTAL	3436	3000	4320					6024	3876	4116	SUBTOTAL

NOTES:	TOTAL WATTS L1:	9460
	TOTAL WATTS L2:	6876
	TOTAL WATTS L3:	8436
	TOTAL WATTS:	24772
C.B. TYPE	TOTAL AMPS @ 100%:	69 AMPS
S=SHUNT TRIP G=GFCI	TOTAL AMPS @ 125%:	86 AMPS
L=LOCK ON C.B. H=HACR C.B.		
AF=ARC FAULT	TOTAL PANEL RECPT LOAD =	14940 WATTS

PANELBOARD: M4N2B1

BUS SIZE:	400 AMPS	MAIN:	MLO
VOLTAGE:	480 Y/277V 3PH,4W	NEUTRAL:	100%
SERVICE RATED:	NO	LOCATION:	ELEC B228A
ISOLATED GND BUS:	NO	MOUNTING:	SURFACE
SHORT CIR. CURRENT RATING	35000 AMPS	TVSS:	NO

DIRECTORY	WATTS OF LOAD L1	WATTS OF LOAD L2	WATTS OF LOAD L3	CKT BKR AMPS	POLES	POLES	CKT BKR AMPS	WATTS OF LOAD L1	WATTS OF LOAD L2	WATTS OF LOAD L3	DIRECTORY
	26937				1	2		26937			
UNIT DHU-1A		26937		110	3	4	110		26937		UNIT DHU-1B
			26937		5	6				26937	
	27081				7	8		2106			
UNIT AHU-5		27081		110	9	10	20		2106		KEF-1
			27081		11	12				2106	
	4545				13	14					
ACC3-1		4545		20	15	16	30				SPARE
			4545		17	18					
					19	20					
SPARE				20	21	22	20				SPARE
					23	24					
SPARE				20	25	26	20				SPARE
SPARE				20	27	28	20				SPARE
SPARE				20	29	30	20				SPARE
SUBTOTAL	58563	58563	58563					29043	29043	29043	SUBTOTAL

NOTES:	TOTAL WATTS L1:	87606
	TOTAL WATTS L2:	87606
	TOTAL WATTS L3:	87606
	TOTAL WATTS:	262818
C.B. TYPE	TOTAL AMPS @ 100%:	316 AMPS
S=SHUNT TRIP G=GFCI	TOTAL AMPS @ 125%:	396 AMPS
L=LOCK ON C.B. H=HACR C.B.		
AF=ARC FAULT	TOTAL PANEL RECPT LOAD =	0 WATTS

PANELBOARD: L4N2B1

BUS SIZE:	125 AMPS	MAIN:	MLO
VOLTAGE:	480 Y/277V 3PH,4W	NEUTRAL:	100%
SERVICE RATED:	NO	LOCATION:	ELEC B228A
ISOLATED GND BUS:	NO	MOUNTING:	SURFACE
SHORT CIR. CURRENT RATING	18000 AMPS	TVSS:	NO

DIRECTORY	WATTS OF LOAD L1	WATTS OF LOAD L2	WATTS OF LOAD L3	CKT BKR AMPS	POLES	POLES	CKT BKR AMPS	WATTS OF LOAD L1	WATTS OF LOAD L2	WATTS OF LOAD L3	DIRECTORY
LTG - ARTS & COMM B220	710			20	1	2	20	3816			LTG - CLASSROOM B238
LTG - LIFE SKILLS B215		3178		20	3	4	20		3144		LTG - CLASSROOM B237
LTG - TOILET B213			1278	20	5	6	20			266	LTG - STAIR H
LTG - COMMONS A220, A270	2621			20	7	8	20	2710			LTG - OPEN STEPPED PRES A121A
LTG - JFG A260		3007		20	9	10	20		3496		LTG - RESOURCE A241
SPARE				20	11	12	20				SPARE
SPARE				20	13	14	20				SPARE
SPARE				20	15	16	20				SPARE
SPARE				20	17	18	20				SPARE
SUBTOTAL	3331	6185	1278					6526	6640	266	SUBTOTAL

NOTES:	TOTAL WATTS L1:	9857
	TOTAL WATTS L2:	12825
	TOTAL WATTS L3:	1544
	TOTAL WATTS:	24226
C.B. TYPE	TOTAL AMPS @ 100%:	29 AMPS
S=SHUNT TRIP G=GFCI	TOTAL AMPS @ 125%:	36 AMPS
L=LOCK ON C.B. H=HACR C.B.		
AF=ARC FAULT	TOTAL PANEL RECPT LOAD =	0 WATTS

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Sanford School Department and State of Maine Department of Education

SANFORD HIGH SCHOOL and TECHNICAL CENTER

SANFORD, ME 04073

NO.	DESCRIPTION	DATE

FOR ADDITIONAL INFORMATION, REFER TO PROJECT MANUAL.

CONTENT:

PANELBOARD SCHEDULES

DRAWN BY:	C. NEWELL
PROJECT NO:	12-067-00
DATE:	02/11/2016
REVISED:	
SCALE:	NO SCALE

E0.12

Project Phase

BID DOCUMENTS

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DRAWING NOTES

1 THE FOLLOWING NOTES ONLY APPLY TO THIS DRAWING.

2 REFER TO GENERAL NOTES, ELECTRICAL TRADE NOTES, LEGEND AND ABBREVIATIONS ON DRAWING E0.01.

PANELBOARD: D2N2B1

BUS SIZE: 400 AMPS — MAIN: 400 AMP MCB ELECTRONIC TRIP
VOLTAGE: 208 Y/120V 3PH,4W — NEUTRAL: 100%
SERVICE RATED: NO — LOCATION: ELEC B228A
ISOLATED GND BUS: NO — MOUNTING: SURFACE
SHORT CIR. CURRENT RATING 22000 AMPS — TVSS: NO

DIRECTORY	L1	L2	L3	CKT BKR AMPS	POLES		CKT BKR AMPS	L1	L2	L3	DIRECTORY
	8400				1	2		16990			
PANEL P2N2B1		9540		125	3	4	150ET		18770		PANEL P2N2B2
			6000		5	6				8460	
	8940				7	8		3960			
PANEL P2N2B3		12960		125	9	10	225ET		2620		PANEL P2N2B4
			9660		11	12				2160	
					13	14					
SPARE				50	15	16	20				SPARE
					17	18					
UNIT ACC-6	2392			35	19	20	35	2392			UNIT ACC-7
		2392			21	22			2392		
UNIT ACC-3			1664	20	23	24	20			1664	UNIT ACC-4
	1664				25	26		1664			
UNIT ACC-5		1664		20	27	28	20		1664		UNIT ACC-8
			1664		29	30				1664	
UNIT ACC-10	1664			20	31	32	20	1664			UNIT ACC-16
		1664			33	34			1664		
SPARE				20	35	36	20				SPARE
					37	38					
FAN EF-A193		528		20	39	40	20		528		FAN EF-A174
FAN KEF-7			1176	20	41	42	20			696	FAN KEF-8
FAN EF-B149	1656			25	43	44	20	528			FAN EF-C104C
FAN DEF-1		1176		20	45	46	20		528		FAN EF-B228A
SPARE				20	47	48	20				SPARE
SPARE				20	49	50	20				SPARE
SPARE				20	51	52	20				SPARE
SPARE				20	53	54	20				SPARE
SUBTOTAL	24716	29924	20164					27198	28166	14644	SUBTOTAL

NOTES: — TOTAL WATTS L1: 51914 — TOTAL WATTS L2: 58090 — TOTAL WATTS L3: 34808 — TOTAL WATTS: 144812
C.B. TYPE — TOTAL AMPS @ 100%: 402 AMPS
S=SHUNT TRIP G=GFCI — TOTAL AMPS @ 125%: 503 AMPS
L=LOCK ON C.B. H=HACR C.B.
AF=ARC FAULT — TOTAL PANEL RECPT LOAD = 0 WATTS

PANELBOARD: P2N2B1

BUS SIZE: 125 AMPS — MAIN: MLO
VOLTAGE: 208 Y/120V 3PH,4W — NEUTRAL: 100%
SERVICE RATED: NO — LOCATION: ELEC B228A
ISOLATED GND BUS: NO — MOUNTING: SURFACE
SHORT CIR. CURRENT RATING 22000 AMPS — TVSS: NO

DIRECTORY	L1	L2	L3	CKT BKR AMPS	POLES		CKT BKR AMPS	L1	L2	L3	DIRECTORY
IWB RECEP - LEARNING CTR A224	300			20	1	2	20	540			RECEP - LEARNING CTR A224
RECEP - LEARNING CTR A224		720		20	3	4	20		360		RECEP DESK - LEARNING A224
RECEP DESK - LEARNING A224			360	20	5	6	20			360	RECEP DESK - LEARNING A224
RECEP DESK - LEARNING A224	360			20	7	8	20	540			RECEP DESK - LEARNING A224
RECEP DESK - LEARNING A224		540		20	9	10	20		540		RECEP DESK - LEARNING A224
RECEP DESK - LEARNING A224			540	20	11	12	20			540	RECEP - RESOURCE RM A241
IWB RECEP - FACULTY A228	300			20	13	14	20	720			RECEP - FACULTY TRAIN A228
RECEP - FACULTY TRAIN A228		540		20	15	16	20		360		RECEP DESK - FACULTY A228
RECEP DESK - FACULTY A228			360	20	17	18	20			360	RECEP DESK - FACULTY A228
RECEP DESK - FACULTY A228	540			20	19	20	20	540			RECEP DESK - FACULTY A228
RECEP DESK - FACULTY A228		540		20	21	22	20		1440		RECEP - LIGHT LOCK A280
RECEP - ACAD. SUPPORT A244			540	20	23	24	20			540	RECEP - ACAD. SUPPORT A244
RECEP - ACAD. SUPPORT A244	360			20	25	26	20	720			RECEP - SPECIAL ED A240A
COPIER - SPECIAL ED A240A		1500		20	27	28	20		300		LCD - SPECIAL ED A240A
IWB RECEP - RESOURCE RM A242			300	20	29	30	20			540	RECEP - RESOURCE RM A242
RECEP - RESOURCE RM A242	540			20	31	32	20	720			RECEP - RESOURCE RM A242
RECEP - SPECIAL ED A240		720		20	33	34	20		360		QUAD RECEP - SPECIAL ED A240
QUAD RECEP - SPECIAL ED A240			360	20	35	36	20			360	QUAD RECEP - SPECIAL ED A240
IWB RECEP - RESOURCE RM A243	300			20	37	38	20	540			RECEP - RESOURCE RM A243
RECEP - RESOURCE RM A243		540		20	39	40	20		540		RECEP - RESOURCE RM A243
IWB RECEP - RESOURCE RM A241			300	20	41	42	20			540	RECEP - RESOURCE RM A241
RECEP - RESOURCE RM A241	540			20	43	44	20	840			FAN EF-B215C & EF-A252
RECEP - RESOURCE RM A241		540		20	45	46	20				SPARE
SPARE				20	47	48	20				SPARE
SPARE				20	49	50	20				SPARE
SPARE				20	51	52	20				SPARE
SPARE				20	53	54	20				SPARE
SUBTOTAL	3240	5640	2760					5160	3900	3240	SUBTOTAL

NOTES: — TOTAL WATTS L1: 8400 — TOTAL WATTS L2: 9540 — TOTAL WATTS L3: 6000 — TOTAL WATTS: 23940
C.B. TYPE — TOTAL AMPS @ 100%: 67 AMPS
S=SHUNT TRIP G=GFCI — TOTAL AMPS @ 125%: 83 AMPS
L=LOCK ON C.B. H=HACR C.B.
AF=ARC FAULT — TOTAL PANEL RECPT LOAD = 19800 WATTS

PANELBOARD: P2N2B2

BUS SIZE: 150 AMPS — MAIN: MLO
VOLTAGE: 208 Y/120V 3PH,4W — NEUTRAL: 100%
SERVICE RATED: NO — LOCATION: ELEC B228A
ISOLATED GND BUS: NO — MOUNTING: SURFACE
SHORT CIR. CURRENT RATING 22000 AMPS — TVSS: NO

DIRECTORY	L1	L2	L3	CKT BKR AMPS	POLES		CKT BKR AMPS	L1	L2	L3	DIRECTORY
RANGE RECEP- KITCHENETTE	4000			50	1	2	30	3250			DRYER RECEP - LAUNDRY
B215B		4000			3	4			3250		B215A
IWB RECEP - JOB GRADS A260			300	20	5	6	20			720	RECEP - JOB GRADS A260
RECEP - JOB GRADS A260	720			20	7	8	20	540			RECEP - JOB GRADS A260
RECEP - TOILET A262		540		20	9	10	20		540		RECEP - ED TECH OFFICE A268
RECEP - ED TECH OFFICE A268			540	20	11	12	20			540	RECEP - ED TECH OFFICE A268
RECEP - ED TECH OFFICE A268	720			20	13	14	20	720			RECEP - ED TECH OFFICE A268
RECEP - ED TECH OFFICE A268		720		20	15	16	20		720		RECEP - ED TECH OFFICE A268
CNTR RECEP - ED TECH A268			360	20	17	18	20			1500	COPIER - ED TECH OFFICE A268
RECEP - ELECT ROOM B228A	540			20	19	20	20	600			LCD (2) - CORRIDOR B220
RECEP - CORRIDOR B220		900		20	21	22	20		1080		CORR RECEP - LL ENGLISH B201
BOX B1/LCD - LL CONF B204			660	20	23	24	20			800	PROJECTOR SCREEN - DINING
RECEP - LL CONF B204	540			20	25	26	20	200			LCP8 - ELECT B228A
RECEP - LL CONF B204		540		20	27	28	20G		1500		WASHER RECEP - LAUNDRY B215A
RECEP - BATH B215C			180	20	29	30	20			360	QUAD RECEP - LL ENGLISH B201
RECEP - KITCHENETTE B215B	1500			20	31	32	20	360			QUAD RECEP - LL ENGLISH B201
RECEP - OFFICE B203		720		20	33	34	20		300		IWB RECEP - CAREER EXPL B211
BOX B1/LCD - LL STUDENT B202			660	20	35	36	20			540	RECEP - CAREER EXPLOR B211
RECEP - LL STUDENT ASSIST B202	720			20	37	38	20	720			RECEP - CAREER EXPLOR B211
PROJECTOR - DINING		1200		20	39	40	20		360		QUAD REC - CAREER EXPL B211
RECEP - CORRIDOR			540	20	41	42	20			360	QUAD REC - CAREER EXPL B211
REFRIGERATOR - KITCHEN B215B	1500			20G	43	44	20	360			QUAD REC - CAREER EXPL B211
RECEP - LIFE SKILLS B215		900		20	45	46	20		1500		RECEP - KITCHENETTE B215B
JUNCTION - DAMPERS - B220			400	20	47	48	20				SPARE
SPARE				15	49	50	20				SPARE
SPARE				15	51	52	20				SPARE
SPARE				15	53	54	20				SPARE
SUBTOTAL	10240	9520	3640					6750	9250	4820	SUBTOTAL

NOTES: — TOTAL WATTS L1: 16990 — TOTAL WATTS L2: 18770 — TOTAL WATTS L3: 8460 — TOTAL WATTS: 44220
C.B. TYPE — TOTAL AMPS @ 100%: 123 AMPS
S=SHUNT TRIP G=GFCI — TOTAL AMPS @ 125%: 154 AMPS
L=LOCK ON C.B. H=HACR C.B.
AF=ARC FAULT — TOTAL PANEL RECPT LOAD = 20100 WATTS

PANELBOARD: L4N1D1

BUS SIZE: 125 AMPS — MAIN: MLO
VOLTAGE: 480 Y/277V 3PH,4W — NEUTRAL: 100%
SERVICE RATED: NO — LOCATION: ELEC D146
ISOLATED GND BUS: NO — MOUNTING: SURFACE
SHORT CIR. CURRENT RATING 18000 AMPS — TVSS: NO

DIRECTORY	L1	L2	L3	CKT BKR AMPS	POLES		CKT BKR AMPS	L1	L2	L3	DIRECTORY
	12000				1	2	20	363			LTG - EXTERIOR BUILDING D
GREENHOUSE CONTROL POWER		12000		100	3	4	20		185		LTG - STAIR G
			12000		5	6	20			274	LTG - STAIR D
LTG - DATA D144	2043			20	7	8	20	2121			LTG - COSMOTOLOGY D132
LTG - BUISINESS D128		3563		20	9	10	20		1361		LTG - LOBBY D140
LTG - PATHWAY LIBRARY D120			740	20	11	12	20			1295	LTG - DINING D151
LTG - STORAGE D133	3330			20	13	14	20	4013			LTG - TECH HUB A135
LIGHTING CIRCUIT				20	15	16	20				SPARE
SPARE				20	17	18	20				SPARE
SPARE				20	19	20	20				SPARE
SPARE				20	21	22	20				SPARE
SPARE				20	23	24	20				SPARE
SUBTOTAL	17373	15563	12740					6497	1546	1569	SUBTOTAL

NOTES: — TOTAL WATTS L1: 23870 — TOTAL WATTS L2: 17109 — TOTAL WATTS L3: 14309 — TOTAL WATTS: 55288
C.B. TYPE — TOTAL AMPS @ 100%: 67 AMPS
S=SHUNT TRIP G=GFCI — TOTAL AMPS @ 125%: 83 AMPS
L=LOCK ON C.B. H=HACR C.B.
AF=ARC FAULT — TOTAL PANEL RECPT LOAD = 0 WATTS

PANELBOARD: D2N1D1

BUS SIZE: 1000 AMPS — MAIN: 800 AMP MCB ELECTRONIC TRIP
VOLTAGE: 208 Y/120V 3PH,4W — NEUTRAL: 100%
SERVICE RATED: NO — LOCATION: ELEC D146
ISOLATED GND BUS: NO — MOUNTING: SURFACE
SHORT CIR. CURRENT RATING 22000 AMPS — TVSS: NO

DIRECTORY	L1	L2	L3	CKT BKR AMPS	POLES		CKT BKR AMPS	L1	L2	L3	DIRECTORY
	8602				1	2		5526			
PANEL P2N1D1		7498		125	3	4	125		5868		PANEL P2N1D2
			7944		5	6				6403	
	5480				7	8		31544			
PANEL P2N1D3		6201		125	9	10	250ET		27354		PANEL P2N1D4
			5220		11	12				26894	
	20602				13	14		38482			
PANEL P2N1D5		19110		400ET	15	16	400ET		37476		PANEL P2N1D6
			21337		17	18				37032	
					19	20					
SPARE				125	21	22	60				SPARE
					23	24					
					25	26					
SPARE				50	27	28	20				SPARE
					29	30					
SUBTOTAL	34684	32809	34501					75552	70698	70329	SUBTOTAL

NOTES: — TOTAL WATTS L1: 110236 — TOTAL WATTS L2: 103507 — TOTAL WATTS L3: 104830 — TOTAL WATTS: 318573
C.B. TYPE — TOTAL AMPS @ 100%: 885 AMPS
S=SHUNT TRIP G=GFCI — TOTAL AMPS @ 125%: 1107 AMPS
L=LOCK ON C.B. H=HACR C.B.
AF=ARC FAULT — TOTAL PANEL RECPT LOAD = 0 WATTS

PANELBOARD: P2N1D1

BUS SIZE: 125 AMPS — MAIN: MLO
VOLTAGE: 208 Y/120V 3PH,4W — NEUTRAL: 100%
SERVICE RATED: NO — LOCATION: ELEC D146
ISOLATED GND BUS: NO — MOUNTING: SURFACE
SHORT CIR. CURRENT RATING 22000 AMPS — TVSS: NO

DIRECTORY	L1	L2	L3	CKT BKR AMPS	POLES		CKT BKR AMPS	L1	L2	L3	DIRECTORY
RECEP - GREENHOUSE D154	360			20	1	2	30	3250			DRYER RECEP - LOCKER D132C
RECEP - GREENHOUSE D154		360		20	3	4			3250		
QUAD REC - OFFICE SALES D152			360	20	5	6	20G			1500	WASHER RECP - LOCKER D132C
RECEP - OFFICE SALES D152	360			20	7	8	20	180			RECEP - HORTICULTURE D150
RECEP - HORTICULTURE D150		360		20	9	10	20		180		RECEP - HORTICULTURE D150
DROP CORDS - HORTICULT. D150			720	20G	11	12	20			360	RECEP - HORTICULTURE D150
DROP CORDS - HORTICULT. D150	720			20G	13	14	20	540			RECEP - HORTICULTURE D150
RECEP - SRO OFFICE D158A		360		20	15	16	20		360		RECEP - HORTICULTURE D150
RECEP - SRO OFFICE D158A			360	20	17	18	20			360	RECEP - HORTICULTURE D150
RECEP - RECEPTION D158	360			20	19	20	20	360			DROP CORDS - GREENHSE D154
RECEP - RECEPTION D158		360		20	21	22	20		300		IWB RECEP - INSTRUCTION D150A
RECEP - EXTERIOR			720	20	23	24	20			720	RECEP - INSTRUCTION D150A
OVERHEAD DOOR - TRACT. D150B	864			20	25	26	20	720			RECEP - INSTRUCTION D150A
RECEP - STORAGE D150C		720		20	27	28	20		528		FAN EF-D150B
RECEP - ELECT ROOM D146			1260	20	29	30	20			720	RECEP - LOCKER D132C
EXHAUST FAN EF-D150B	528			20	31	32	20G	360			DROP CORDS - GREENHSE D154
DROP CORD - HORTICULT. D150		360		20G	33	34	20G		360		DROP CORDS - GREENHSE D154
OVERHEAD DOOR - D154			864	20	35	36	20G				SPARE
SPARE				20	37	38	20				SPARE
SPARE				20	39	40	20				SPARE
SPARE				20	41	42	20				SPARE
SUBTOTAL	3192	2520	4284					5410	4978	3660	SUBTOTAL

NOTES: — TOTAL WATTS L1: 8602 — TOTAL WATTS L2: 7498 — TOTAL WATTS L3: 7944 — TOTAL WATTS: 24044
C.B. TYPE — TOTAL AMPS @ 100%: 67 AMPS
S=SHUNT TRIP G=GFCI — TOTAL AMPS @ 125%: 84 AMPS
L=LOCK ON C.B. H=HACR C.B.
AF=ARC FAULT — TOTAL PANEL RECPT LOAD = 12240 WATTS

PANELBOARD: P2N1D2

BUS SIZE: 125 AMPS — MAIN: MLO
VOLTAGE: 208 Y/120V 3PH,4W — NEUTRAL: 100%
SERVICE RATED: NO — LOCATION: ELEC D146
ISOLATED GND BUS: NO — MOUNTING: SURFACE
SHORT CIR. CURRENT RATING 22000 AMPS — TVSS: NO

DIRECTORY	L1	L2	L3	CKT BKR AMPS	POLES		CKT BKR AMPS	L1	L2	L3	DIRECTORY
IWB RECEP - COS INSTR D132A	300			20	1	2	20	183			AC UNITS AC1-1, 2, 3, 4, 5, 6 & 7
RECEP - COSMET INSTR D132A		720		20	3	4			183		
RECEP - WIG DRYER - D132A			180	20	5	6	20			183	UNITS AC1-1, 2, 3, 4, 5, 6 & 7
RECEP - WIG DRYER - D132A	180			20	7	8		183			
RECEP - WIG DRYER - D132A		180		20	9	10	20		180		RECEP - COSMETOLOGY LAB D132
FLOOR BOX D1 - COSMET D132			360	20	11	12	20			720	RECEP - COSMETOLOGY LAB D132
FLOOR BOX D1 - COSMET D132	360			20	13	14	20	360			RECEP - COSMETOLOGY LAB D132
FLOOR BOX D1 - COSMET D132		360		20	15	16	20		360		RECEP - COSMETOLOGY LAB D132
SALON RECEP - COSMET D132			360	20	17	18	20			360	RECEP - COSMETOLOGY LAB D132
SALON RECEP - COSMET D132	360			20	19	20	20	360			RECEP - COSMETOLOGY LAB D132
SALON RECEP - COSMET D132		360		20	21	22	20		360		RECEP - COSMETOLOGY LAB D132
SALON RECEP - COSMET D132			360	20	23	24	20			540	RECEP - COSMETOLOGY LAB D132
SALON RECEP - COSMET D132	360			20	25	26	20	360			SALON RECEP - COSMET D132
SALON RECEP - COSMET D132		360		20	27	28	20		360		SALON RECEP - COSMET D132
SALON RECEP - COSMET D132			360	20	29	30	20			360	SALON RECEP - COSMET D132
SALON RECEP - COSMET D132	360			20	31	32	20	360			SALON RECEP - COSMET D132
SALON RECEP - COSMET D132		360		20	33	34	20		360		SALON RECEP - COSMET D132
SALON RECEP - COSMET D132			360	20	35	36	20			360	SALON RECEP - COSMET D132
RECEP - TOILET D143	720			20	37	38	20	360			RECEP - DISPENSORY D132B
FANS DBF-D132C, D112, D132D		225		20	39	40	20		1500		CNTR REC - DISPENSORY D132B
JUNCTION - DAMPERS - D120			400	20	41	42	20G			1500	DISHWASHER DISPENSORY D132B
SPARE				20	43	44	20	720			RECEP - OFFICE D134
SPARE				20	45	46	20				SPARE
SPARE				20	47	48	20				SPARE
SPARE				20	49	50	20				SPARE
SPARE				20	51	52	20				SPARE
SPARE				20	53	54	20				SPARE
SUBTOTAL	2640	2565	2380					2886	3303	4023	SUBTOTAL

NOTES: — TOTAL WATTS L1: 5526 — TOTAL WATTS L2: 5868 — TOTAL WATTS L3: 6403 — TOTAL WATTS: 17797
C.B. TYPE — TOTAL AMPS @ 100%: 49 AMPS
S=SHUNT TRIP G=GFCI — TOTAL AMPS @ 125%: 62 AMPS
L=LOCK ON C.B. H=HACR C.B.
AF=ARC FAULT — TOTAL PANEL RECPT LOAD = 12420 WATTS

PANELBOARD: P2N1D3

BUS SIZE: 125 AMPS — MAIN: MLO
VOLTAGE: 208 Y/120V 3PH,4W — NEUTRAL: 100%
SERVICE RATED: NO — LOCATION: ELEC D146
ISOLATED GND BUS: NO — MOUNTING: SURFACE
SHORT CIR. CURRENT RATING 22000 AMPS — TVSS: NO

DIRECTORY	L1	L2	L3	CKT BKR AMPS	POLES		CKT BKR AMPS	L1	L2	L3	DIRECTORY
LCD - PATH LIBRARY D120A	300			20	1	2	20	300			IWB RECEP - BUSINESS D128
RECEP - BUSINESS D130		540		20	3	4	20		540		RECEP - BUSINESS D128
RECEP - BUSINESS D130			540	20	5	6	20			540	RECEP - BUSINESS D128
RECEP - BUSINESS D130	360			20	7	8	20	360			RECEP - BUSINESS D128
RECEP - BUSINESS D130		540		20	9	10	20		720		RECEP DESK - BUSINESS D128
IWB RECEP - BUSINESS D122			300	20	11	12	20			720	RECEP DESK - BUSINESS D128
RECEP - BUSINESS/MATH D122	360			20	13	14	20	720			RECEP DESK - BUSINESS D128
RECEP - BUSINESS/MATH D122		360		20	15	16	20		720		RECEP DESK - BUSINESS D128
RECEP - BUSINESS/MATH D122			720	20	17	18	20			720	RECEP DESK - BUSINESS D128
RECEP - BUSINESS/MATH D122	720			20	19	20	20	720			RECEP DESK - BUSINESS D128
RECEP - TOILET D126		360		20	21	22	20		900		RECEP - CORRIDOR
RECEP - PATH LIBRARY D120A			720	20	23	24	20			300	IWB RECEP - CLASSROOM D117A
FLOOR BOX A1 - LIBRARY D120A	360			20	25	26	20	540			RECEP - CLASSROOM D117A
FLOOR BOX A1 - LIBRARY D120A		360		20	27	28	20		540		RECEP - CLASSROOM D117A
FLOOR BOX A1 - LIBRARY D120A			360	20	29	30	20			300	IWB RECEP - CLASSROOM D117B
LCP2 - ELEC D146	200			20	31	32	20	540			RECEP - CLASSROOM D117B
LTG - PATH LIBRARY D120A - TRACK		81		20	33	34	20		540		RECEP - CLASSROOM D117B
SPARE				20	35	36	20				SPARE
SPARE				20	37	38	20				SPARE
SPARE				20	39	40	20				SPARE
SPARE				20	41	42	20				SPARE
SUBTOTAL	2300	2241	2640					3180	3960	2580	SUBTOTAL

NOTES: — TOTAL WATTS L1: 5480 — TOTAL WATTS L2: 6201 — TOTAL WATTS L3: 5220 — TOTAL WATTS: 16901
C.B. TYPE — TOTAL AMPS @ 100%: 47 AMPS
S=SHUNT TRIP G=GFCI — TOTAL AMPS @ 125%: 59 AMPS
L=LOCK ON C.B. H=HACR C.B.
AF=ARC FAULT — TOTAL PANEL RECPT LOAD = 10800 WATTS

PANELBOARD: P2N1D4

BUS SIZE: 250 AMPS — MAIN: MLO
VOLTAGE: 208 Y/120V 3PH,4W — NEUTRAL: 100%
SERVICE RATED: NO — LOCATION: FACS CULINARY LAB D112
ISOLATED GND BUS: NO — MOUNTING: SURFACE
SHORT CIR. CURRENT RATING 22000 AMPS — TVSS: NO

DIRECTORY	L1	L2	L3	CKT BKR AMPS	POLES		CKT BKR AMPS	L1	L2	L3	DIRECTORY
					1	2	40	3172			UNDERCOUNTER WAREWASHER
SPARE				20	3	4			3172		#217
					5	6	40			3172	UNDERCOUNTER WAREWASHER
RESIDENTIAL WALL OVEN #222	2080			20	7	8		3172			#217
		2080			9	10	40		3162		DROP-IN ELECTRIC RANGE
STACKED DRYER #206			2400	30	11	12				3162	#220
	2400				13	14	20G	1500			COUNTER GFCI RECEP CKT #207
RESIDENTIAL ELECT RANGE		3120		40	15	16	20G		1500		COUNTER GFCI RECEP CKT #207
WITH OVEN #213			3120		17	18	20G			1500	COUNTER GFCI RECEP CKT #211
RESIDENTIAL ELECT RANGE	3120			40	19	20	20G	1500			COUNTER GFCI RECEP CKT #211
WITH OVEN #213		3120			21	22	20G		1500		COUNTER GFCI RECEP CKT #211
RESIDENTIAL ELECT RANGE			3120	40	23	24	20G			1500	COUNTER GFCI RECEP CKT #211
WITH OVEN #213	3120				25	26	20G	1500			COUNTER GFCI RECEP CKT #211
STACKED WASHER #205		1800		20G	27	28	20G		1500		COUNTER GFCI RECEP CKT #211
RES. GAS RANGE WITH OVEN #212			1800	20G	29	30	20G			1500	COUNTER GFCI RECEP CKT #211
RES. GAS RANGE WITH OVEN #212	1800			20G	31	32	20G	1500			COUNTER GFCI RECEP CKT #211
EXHAUST VENT. LIGHTS #214		100		20G	33	34	20G		1500		COUNTER GFCI RECEP CKT #211
EXHAUST VENT. LIGHTS #214			100	20G	35	36	20G			1500	COUNTER GFCI RECEP CKT #211
EXHAUST VENT. LIGHTS #221	200			20G	37	38	20G	1500			COUNTER GFCI RECEP CKT #211
EXHAUST VENT. LIGHTS #224		300		20G	39	40	20G		1500		COUNTER GFCI RECEP CKT #211
EXHAUST VENT. LIGHTS #224			300	20G	41	42	20G			1500	COUNTER GFCI RECEP CKT #218
COUNTER GFCI RECEP CKT #223	1500			20G	43	44	20G	1500			COUNTER GFCI RECEP CKT #218
COUNTER GFCI RECEP CKT #223		1500		20G	45	46	20G		1500		COUNTER GFCI RECEP CKT #218
RECEP - CULINARY D112			720	20	47	48	20G			1500	COUNTER GFCI RECEP CKT #219
IWB RECEP - CULINARY D112	480			20	49	50	20G	1500			COUNTER GFCI RECEP CKT #219
SPARE				20G	51	52	15G				SPARE
SPARE				20G	53	54	15G				SPARE
SUBTOTAL	14700	12020	11560					16844	15334	15334	SUBTOTAL

NOTES: — TOTAL WATTS L1: 31544 — TOTAL WATTS L2: 27354 — TOTAL WATTS L3: 26894 — TOTAL WATTS: 85792
C.B. TYPE — TOTAL AMPS @ 100%: 238 AMPS
S=SHUNT TRIP G=GFCI — TOTAL AMPS @ 125%: 298 AMPS
L=LOCK ON C.B. H=HACR C.B.
AF=ARC FAULT — TOTAL PANEL RECPT LOAD = 720 WATTS

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Sanford School Department and State of Maine Department of Education

SANFORD HIGH SCHOOL and TECHNICAL CENTER

SANFORD, ME 04073

NO.	DESCRIPTION	DATE

FOR ADDITIONAL INFORMATION, REFER TO PROJECT MANUAL.

CONTENT: PANELBOARD SCHEDULES

DRAWN BY: C. NEWELL
PROJECT NO: 12-067-00
DATE: 02/11/2016
REVISED:
SCALE: NO SCALE

E0.13

Project Phase
BID DOCUMENTS

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DRAWING NOTES

1 THE FOLLOWING NOTES ONLY APPLY TO THIS DRAWING.

2 REFER TO GENERAL NOTES, ELECTRICAL TRADE NOTES, LEGEND AND ABBREVIATIONS ON DRAWING E0.01.

PANELBOARD: P2N1D5

BUS SIZE:	400 AMPS	MAIN:	MLO
VOLTAGE:	208 Y/120V 3PH,4W	NEUTRAL:	100%
SERVICE RATED:	NO	LOCATION:	CULINARY ARTS D123A
ISOLATED GND BUS:	NO	MOUNTING:	SURFACE
SHORT CIR. CURRENT RATING	22000 AMPS	TVSS:	NO

DIRECTORY	WATTS OF LOAD L1	L2	L3	CKT BKR AMPS	POLES	POLES	CKT BKR AMPS	WATTS OF LOAD L1	L2	L3	DIRECTORY
	1201				1	2					
SIXTY-QUART MIXER #155		1201		20	3	4	20				SPARE
			1201		5	6					
					7	8					
SPARE				20	9	10	30				SPARE
					11	12					
	3002				13	14		8646			
UTILITY DISTRIBUTION SYSTEM		3002		50	15	16	90		8646		DECK OVEN
#137			3002		17	18				8646	#131
CONVEYOR TOASTER #199	1113			20	19	20	20				SPARE
		1113			21	22					
CLOTHES DRYER #170			2400	30	23	24	30			2392	COFFEE BREWER #200
	2400				25	26		2392			
CLOTHES WASHER #169		1800		20G	27	28	20G		1500		COUNTER GFCI RECEP CKT #123
FIVE-QUART MIXER #154			348	20G	29	30	20G			1500	COUNTER GFCI RECEP CKT #123
FIVE-QUART MIXER #154	348			20G	31	32	20G	1500			COUNTER GFCI RECEP CKT #152
FIVE-QUART MIXER #154		348		20G	33	34	20G		1500		COUNTER GFCI RECEP CKT #152
FIVE-QUART MIXER #154			348	20G	35	36	20G			1500	COUNTER GFCI RECEP CKT #152
SPARE				20G	37	38	20G				SPARE
SPARE				20G	39	40	15G				SPARE
SPARE				20G	41	42	15G				SPARE
SUBTOTAL	8064	7464	7299					12538	11646	14038	SUBTOTAL

NOTES:	TOTAL WATTS L1: 20602
	TOTAL WATTS L2: 19110
	TOTAL WATTS L3: 21337
	TOTAL WATTS: 61049
C.B. TYPE	TOTAL AMPS @ 100%: 170 AMPS
S=SHUNT TRIP G=GFCI	TOTAL AMPS @ 125%: 212 AMPS
L=LOCK ON C.B. H=HACR C.B.	
AF=ARC FAULT	TOTAL PANEL RECPT LOAD = 0 WATTS

PANELBOARD: P2N1D6

BUS SIZE:	400 AMPS	MAIN:	MLO
VOLTAGE:	208 Y/120V 3PH,4W	NEUTRAL:	100%
SERVICE RATED:	NO	LOCATION:	CULINARY ARTS D123A
ISOLATED GND BUS:	NO	MOUNTING:	SURFACE
SHORT CIR. CURRENT RATING	22000 AMPS	TVSS:	NO

DIRECTORY	WATTS OF LOAD L1	L2	L3	CKT BKR AMPS	POLES	POLES	CKT BKR AMPS	WATTS OF LOAD L1	L2	L3	DIRECTORY
	6000				1	2		15732			
CHEF'S COUNTER ASSEMBLY		6000		150	3	4	150		15732		WAREWASHER #187
#146			6000		5	6				15732	
DOUBLE CONVECTION OVEN #132	960			20G	7	8	20G	100			FOUR-BURNER RANGE #133
FORTY-QUART KETTLE #134		120		20G	9	10	20G		300		IWB RECEP - CULINARY D123A
LCD (3) - DINING D151			900	20	11	12	20			540	RECEP - CULINARY D123A
TWENTY-QUART MIXER #158	960			20G	13	14	20	540			RECEP - CULINARY D123A
TWENTY-QUART MIXER #158		960		20G	15	16	20		900		RECEP - CULINARY D123A
TWENTY-QUART MIXER #158			960	20G	17	18	20			900	RECEP - DINING D151
PROOFER CABINET #160	1650			20G	19	20	20	540			RECEP - SALES D151A
DIVIDER/ROUNDER #161		960		20G	21	22	20		720		RECEP - OFFICE D125
POWER DROP CORDS #165			1500	20G	23	24	20G			1500	COUNTER GFCI RECEP CKT #193
POWER DROP CORDS #165	1500			20G	25	26	20G	1500			COUNTER GFCI RECEP CKT #193
POWER DROP CORDS #165		1500		20G	27	28	20G		1500		COUNTER GFCI RECEP CKT #193
POWER DROP CORDS #165			1500	20G	29	30	20G			1500	COUNTER GFCI RECEP CKT #193
POWER DROP CORDS #165	1500			20G	31	32	20G	1500			COUNTER GFCI RECEP CKT #197
POWER DROP CORDS #165		1500		20G	33	34	20G		1500		COUNTER GFCI RECEP CKT #197
POWER DROP CORDS #165			1500	20G	35	36	20G			1500	POWER DROP CORDS #165
POWER DROP CORDS #165	1500			20G	37	38	20G	1500			POWER DROP CORDS #165
POWER DROP CORDS #165		1500		20G	39	40	20G		1500		POWER DROP CORDS #165
POWER DROP CORDS #165			1500	20G	41	42	20G			1500	POWER DROP CORDS #165
POWER DROP CORDS #165	1500			20G	43	44	20G	1500			POWER DROP CORDS #165
POWER DROP CORDS #165		1500		20G	45	46	20G		1284		COMBINATION DISPLAY CASE #196
SPARE				20G	47	48	15G				SPARE
SPARE				20G	49	50	15G				SPARE
SPARE				20G	51	52	15G				SPARE
SPARE				20G	53	54	15G				SPARE
SUBTOTAL	15570	14040	13860					22912	23436	23172	SUBTOTAL

NOTES:	TOTAL WATTS L1: 38482
	TOTAL WATTS L2: 37476
	TOTAL WATTS L3: 37032
	TOTAL WATTS: 112990
C.B. TYPE	TOTAL AMPS @ 100%: 314 AMPS
S=SHUNT TRIP G=GFCI	TOTAL AMPS @ 125%: 393 AMPS
L=LOCK ON C.B. H=HACR C.B.	
AF=ARC FAULT	TOTAL PANEL RECPT LOAD = 29640 WATTS

PANELBOARD: P2S1D2

BUS SIZE:	225 AMPS	MAIN:	MLO
VOLTAGE:	208 Y/120V 3PH,4W	NEUTRAL:	100%
SERVICE RATED:	NO	LOCATION:	CULINARY ARTS D123A
ISOLATED GND BUS:	NO	MOUNTING:	SURFACE
SHORT CIR. CURRENT RATING	22000 AMPS	TVSS:	NO

DIRECTORY	WATTS OF LOAD L1	L2	L3	CKT BKR AMPS	POLES	POLES	CKT BKR AMPS	WATTS OF LOAD L1	L2	L3	DIRECTORY
	1357				1	2		1357			
FREEZER CONDEN. UNIT #118C		1357		20	3	4	20		1357		FREEZER CONDENS. UNIT #118C
			1357		5	6				1357	
					7	8					
SPARE				20	9	10	20				SPARE
					11	12					
					13	14					
SPARE				20	15	16	20				SPARE
					17	18					
COOLER CONDENS. UNIT #118A	811			20	19	20	20	853			FREEZER EVAP. COIL #118D
		811			21	22			853		
COOLER CONDENS. UNIT #118A			811	20	23	24	20			853	FREEZER EVAP. COIL #118D
	811				25	26		853			
SPARE				30	27	28	20G		1300		WALK-IN COOLER LIGHTS #116
					29	30	20G			1500	WALK-IN FREEZLER LIGHTS #117
COOLER EVAP. COIL #118B	240			20G	31	32	20G	1200			FREEZER HEAT TRACE #117B
COOLER EVAP. COIL #118B		240		20G	33	34	20G		1500		FIRE SUPPRESSION SYSTEM #136
VENTILATION CONTROLS #130			1500	20G	35	36	20G			1500	FIRE SUPPRESSION SYSTEM #136
VENTILATION CONTROLS #143	1500			20G	37	38	20G	840			REACH-IN REFRIGERATOR #194
REACH-IN REFRIGERATOR #147		840		20G	39	40	20G		1128		REACH-IN FREEZER #195
REACH-IN REFRIGERATOR #147			840	20G	41	42	20G			1128	REACH-IN FREEZER #208
ICE MAKER #174	1620			20G	43	44	20G	984			REACH-IN REFRIGERATOR #209
REACH-IN REFRIGERATOR #209		984		20G	45	46	20G		1500		FIRE SUPPRESSION SYST #225A
SPARE				20G	47	48	20G			1500	FIRE SUPPRESSION SYST #225B
SPARE				20G	49	50	20G	1500			FIRE SUPPRESSION SYST #225C
SPARE				20G	51	52	15G				SPARE
SPARE				20G	53	54	15G				SPARE
SUBTOTAL	6339	4232	4508					7587	7638	7838	SUBTOTAL

NOTES:	TOTAL WATTS L1: 13926
	TOTAL WATTS L2: 11870
	TOTAL WATTS L3: 12346
	TOTAL WATTS: 38142
C.B. TYPE	TOTAL AMPS @ 100%: 106 AMPS
S=SHUNT TRIP G=GFCI	TOTAL AMPS @ 125%: 132 AMPS
L=LOCK ON C.B. H=HACR C.B.	
AF=ARC FAULT	TOTAL PANEL RECPT LOAD = 0 WATTS

PANELBOARD: M4N2E1

BUS SIZE:	400 AMPS	MAIN:	MLO
VOLTAGE:	480 Y/277V 3PH,4W	NEUTRAL:	100%
SERVICE RATED:	NO	LOCATION:	ELEC E227B
ISOLATED GND BUS:	NO	MOUNTING:	SURFACE
SHORT CIR. CURRENT RATING	35000 AMPS	TVSS:	NO

DIRECTORY	WATTS OF LOAD L1	L2	L3	CKT BKR AMPS	POLES	POLES	CKT BKR AMPS	WATTS OF LOAD L1	L2	L3	DIRECTORY
	39408				1	2		30817			
UNIT DHU-8		39408		150ET	3	4	125		30817		UNIT DHU-9
			39408		5	6				30817	
					7	8					
SPARE				125	9	10	50				SPARE
					11	12					
					13	14					
SPARE				20	15	16	20				SPARE
					17	18					
SPARE				20	19	20	20				SPARE
SPARE				20	21	22	20				SPARE
SPARE				20	23	24	20				SPARE
SUBTOTAL	39408	39408	39408					30817	30817	30817	SUBTOTAL

NOTES:	TOTAL WATTS L1: 70225
	TOTAL WATTS L2: 70225
	TOTAL WATTS L3: 70225
	TOTAL WATTS: 210675
C.B. TYPE	TOTAL AMPS @ 100%: 254 AMPS
S=SHUNT TRIP G=GFCI	TOTAL AMPS @ 125%: 317 AMPS
L=LOCK ON C.B. H=HACR C.B.	
AF=ARC FAULT	TOTAL PANEL RECPT LOAD = 0 WATTS

PANELBOARD: L4N2E1

BUS SIZE:	125 AMPS	MAIN:	MLO
VOLTAGE:	480 Y/277V 3PH,4W	NEUTRAL:	100%
SERVICE RATED:	NO	LOCATION:	ELEC E227B
ISOLATED GND BUS:	NO	MOUNTING:	SURFACE
SHORT CIR. CURRENT RATING	18000 AMPS	TVSS:	NO

DIRECTORY	WATTS OF LOAD L1	L2	L3	CKT BKR AMPS	POLES	POLES	CKT BKR AMPS	WATTS OF LOAD L1	L2	L3	DIRECTORY
LTG - ENGLISH E213	3113			20	1	2	20	3059			LTG - FORENSIC E226
LTG - CIRCULATION E220		1219		20	3	4	20		3240		LTG - CLASSROOM E223
SPARE				20	5	6	20			3466	LTG - OFFICE E248
SPARE				20	7	8	20				SPARE
SPARE				20	9	10	20				SPARE
SPARE				20	11	12	20				SPARE
SPARE				20	13	14	20				SPARE
SPARE				20	15	16	20				SPARE
SPARE				20	17	18	20				SPARE
SUBTOTAL	3113	1219	0					3059	3240	3466	SUBTOTAL

NOTES:	TOTAL WATTS L1: 6172
	TOTAL WATTS L2: 4459
	TOTAL WATTS L3: 3466
	TOTAL WATTS: 14097
C.B. TYPE	TOTAL AMPS @ 100%: 17 AMPS
S=SHUNT TRIP G=GFCI	TOTAL AMPS @ 125%: 21 AMPS
L=LOCK ON C.B. H=HACR C.B.	
AF=ARC FAULT	TOTAL PANEL RECPT LOAD = 0 WATTS

PANELBOARD: D2N2E1

BUS SIZE:	400 AMPS	MAIN:	400 AMP MCB ELECTRONIC TRIP
VOLTAGE:	208 Y/120V 3PH,4W	NEUTRAL:	100%
SERVICE RATED:	NO	LOCATION:	ELEC E227B
ISOLATED GND BUS:	NO	MOUNTING:	SURFACE
SHORT CIR. CURRENT RATING	22000 AMPS	TVSS:	NO

DIRECTORY	WATTS OF LOAD L1	L2	L3	CKT BKR AMPS	POLES	POLES	CKT BKR AMPS	WATTS OF LOAD L1	L2	L3	DIRECTORY
	9280				1	2		8720			
PANEL P2N2E1		8106		125	3	4	125		9600		PANEL P2N2E2
			10704		5	6				10020	
	4380				7	8					
PANEL P2N2E3		5380		125	9	10	50				SPARE
			4320		11	12					
					13	14					
SPARE				20	15	16	20				SPARE
					17	18					
FAN EF-E242	1373			25	19	20	20	1664			UNIT ACC-9
		1373			21	22			1664		
UNIT ACC-14			1664	20	23	24	20				SPARE
	1664				25	26					
SPARE				20	27	28	20				SPARE
					29	30					
SPARE				20	31	32	20				SPARE
SPARE				20	33	34	20				SPARE
SPARE				20	35	36	20				SPARE
SUBTOTAL	16697	14859	16688					10384	11264	10020	SUBTOTAL

NOTES:	TOTAL WATTS L1: 27081
	TOTAL WATTS L2: 26123
	TOTAL WATTS L3: 26708
	TOTAL WATTS: 79912
C.B. TYPE	TOTAL AMPS @ 100%: 222 AMPS
S=SHUNT TRIP G=GFCI	TOTAL AMPS @ 125%: 278 AMPS
L=LOCK ON C.B. H=HACR C.B.	
AF=ARC FAULT	TOTAL PANEL RECPT LOAD = 0 WATTS

PANELBOARD: P2N2E1

BUS SIZE:	125 AMPS	MAIN:	MLO
VOLTAGE:	208 Y/120V 3PH,4W	NEUTRAL:	100%
SERVICE RATED:	NO	LOCATION:	ELEC E227B
ISOLATED GND BUS:	NO	MOUNTING:	SURFACE
SHORT CIR. CURRENT RATING	22000 AMPS	TVSS:	NO

DIRECTORY	WATTS OF LOAD L1	L2	L3	CKT BKR AMPS	POLES	POLES	CKT BKR AMPS	WATTS OF LOAD L1	L2	L3	DIRECTORY
LCD (2) - CORRIDOR A220	600			20	1	2	20	720			RECEP - OFFICE A202
RECEP - ASST DIR A203		720		20	3	4	20		900		RECEP - DIRECTOR A204
RECEP - SPECIAL ED A201			720	20	5	6	20			1500	COPIER - SPECIAL ED A201
RECEP - FILE ROOM A208	900			20	7	8	20	720			RECEP - CONFERENCE A205
LCD/BOX B1 - CONFERENCE A205		660		20	9	10	20		720		RECEP - OFFICE A206
RECEP - OFFICE A207			720	20	11	12	20			300	IWB RECEP - ENG/SPEC ED E213
RECEP - ENG/SPEC ED E213	720			20	13	14	20	720			RECEP - ENG/SPEC ED E213
RECEP - OFFICE E215		540		20	15	16	20		540		RECEP - OFFICE E215
RECEP - MAIN COMMONS A220			1080	20	17	18	20			720	RECEP - VIRTUAL PATH A227
RECEP - ELO OFFICE A222	720			20	19	20	20	720			RECEP - PSYC OFFICE A225
IWB RECEP - EMOTIONAL DIS. A245		300		20	21	22	20		540		RECEP - EMOTIONAL DIS. A245
RECEP - EMOTIONAL DIS. A245			540	20	23	24	20			540	RECEP - EMOTIONAL DIS. A245
IWB RECEP - CLASSROOM E221	300			20	25	26	20	300			IWB RECEP - CLASSROOM E225
RECEP - CLASSROOM E221		720		20	27	28	20		720		RECEP - CLASSROOM E225
RECEP - CLASSROOM E221			720	20	29	30	20			720	RECEP - CLASSROOM E225
CNTR RECEP - CLASSROOM E221	360			20	31	32	20	300			IWB RECEP - CLASSROOM E227
IWB RECEP - CLASSROOM E223		300		20	33	34	20		720		RECEP - CLASSROOM E227
RECEP - CLASSROOM E223			720	20	35	36	20			720	RECEP - CLASSROOM E227
RECEP - CLASSROOM E223	720			20	37	38	20	1080			RECEP - ELEC E227B
FAN EF-E227B		696		20	39	40	20		30		LTG - SPEC ED A201 - P5
FAN EF-A108			528	20	41	42	20			1176	FAN SF-E242
JUNCTION - DAMPERS - E220	400			20	43	44	20				SPARE
SPARE				20	45	46	20				SPARE
SPARE				20	47	48	20				SPARE
SPARE				20	49	50	20				SPARE
SPARE				20	51	52	20				SPARE
SPARE				20	53	54	20				SPARE
SUBTOTAL	4720	3936	5028					4560	4170	5676	SUBTOTAL

NOTES:	TOTAL WATTS L1: 9280
	TOTAL WATTS L2: 8106
	TOTAL WATTS L3: 10704
	TOTAL WATTS: 28090
C.B. TYPE	TOTAL AMPS @ 100%: 78 AMPS
S=SHUNT TRIP G=GFCI	TOTAL AMPS @ 125%: 98 AMPS
L=LOCK ON C.B. H=HACR C.B.	
AF=ARC FAULT	TOTAL PANEL RECPT LOAD = 20700 WATTS

PANELBOARD: P2N2E2

BUS SIZE:	125 AMPS	MAIN:	MLO
VOLTAGE:	208 Y/120V 3PH,4W	NEUTRAL:	100%
SERVICE RATED:	NO	LOCATION:	ELEC E227B
ISOLATED GND BUS:	NO	MOUNTING:	SURFACE
SHORT CIR. CURRENT RATING	22000 AMPS	TVSS:	NO

DIRECTORY	WATTS OF LOAD L1	L2	L3	CKT BKR AMPS	POLES	POLES	CKT BKR AMPS	WATTS OF LOAD L1	L2	L3	DIRECTORY
GFCI RECEPTACLES - ROOF - A1	360			20	1	2	20	360			RECEP - OFFICE E224A
RECEP - STORAGE E235		900		20	3	4	20		360		RECEP - OFFICE E224B
RECEP - CORRIDOR E220			900	20	5	6	20			360	RECEP - FORENSIC STUDIO E226
IWB RECEP - CRIM JUSTICE E228	300			20	7	8	20	360			RECEP - FORENSIC STUDIO E226
RECEP - CRIM JUSTICE E228		540		20	9	10	20		360		RECEP - FORENSIC STUDIO E226
RECEP - CRIM JUSTICE E228			540	20	11	12	20			360	QUAD RECEP - FOR STUDIO E226
RECEP - CRIM JUSTICE E228	540			20	13	14	20	360			QUAD RECEP - FOR STUDIO E226
RECEP - ALT. ED OFFICE E259		720		20	15	16	20		360		QUAD RECEP - FOR STUDIO E226
RECEP - CIRC E250A			540	20	17	18	20			540	RECEP - OFFICE E248
IWB RECEP - CLASSROOM E251	300			20	19	20	20	540			RECEP - OFFICE E248
RECEP - CLASSROOM E251		540		20	21	22	20		360		QUAD RECEP - OFFICE E248
RECEP - CLASSROOM E251			720	20	23	24	20			360	QUAD RECEP - OFFICE E248
IWB RECEP - CLASSROOM E252	300			20	25	26	20	360			QUAD RECEP - OFFICE E248
RECEP - CLASSROOM E252		720		20	27	28	20		900		RECEP - SMALL GROUP E255
RECEP - CLASSROOM E252			720	20	29	30	20			360	LCD - ALT. ED COMM E250
IWB RECEP - CLASSROOM E256	300			20	31	32	20	720			RECEP - ALT. ED COMMON E250
RECEP - CLASSROOM E256		720		20	33	34	20		360		RECEP - ALT. ED COMMON E250
RECEP - CLASSROOM E256			720	20	35	36	20			1500	CNTR RECEP - ALT. ED COM E250
CNTR RECEP - CLASSROOM E256	360			20	37	38	20	1500			CNTR RECEP - ALT. ED COM E250
CNTR RECEP - CLASSROOM E256		360		20	39	40	20		1500		COPIER - ALT. ED COM E250
LCD - SMALL GROUP E255			360	20	41	42	20G			1500	REFRIG. - ALT. ED COM E250
LCP5 - ELEC E227B	200			20	43	44	20G	1500			DISHWASHER - ALT. ED COM E250
GFCI RECEPTACLES - ROOF - E		360		20	45	46	20		540		RECEP - OFFICE E216
RECEP - OFFICE E216			180	20	47	48	20			360	RECEP - OFFICE E216
QUAD RECEP - OFFICE E216	360			20	49	50	20				SPARE
SPARE				20	51	52	20				SPARE
SPARE				20	53	54	20				SPARE
SUBTOTAL	3020	4860	4680					5700	4740	5340	SUBTOTAL

NOTES:	TOTAL WATTS L1: 8720
	TOTAL WATTS L2: 9600
	TOTAL WATTS L3: 10020
	TOTAL WATTS: 28340
C.B. TYPE	TOTAL AMPS @ 100%: 79 AMPS
S=SHUNT TRIP G=GFCI	TOTAL AMPS @ 125%: 98 AMPS
L=LOCK ON C.B. H=HACR C.B.	
AF=ARC FAULT	TOTAL PANEL RECPT LOAD = 18720 WATTS

PANELBOARD: M4N2D1

BUS SIZE:	600 AMPS	MAIN:	MLO
VOLTAGE:	480 Y/277V 3PH,4W	NEUTRAL:	100%
SERVICE RATED:	NO	LOCATION:	ELEC D247
ISOLATED GND BUS:	NO	MOUNTING:	SURFACE
SHORT CIR. CURRENT RATING	35000 AMPS	TVSS:	NO

DIRECTORY	WATTS OF LOAD L1	L2	L3	CKT BKR AMPS	POLES	POLES	CKT BKR AMPS	WATTS OF LOAD L1	L2	L3	DIRECTORY
	22780				1	2		26937			
UNIT DHU-6A		22780		100	3	4	110		26937		UNIT DHU-6B
			22780		5	6				26937	
	30817				7	8		27081			
UNIT DHU-7		30817		125	9	10	110		27081		UNIT AHU-7
			30817		11	12				27081	
	27081				13	14		942			
UNIT AHU-8		27081		110	15	16	20		942		FAN KEF-2
			27081		17	18				942	
	1330				19	20		6014			
FAN KEF-3		1330		20	21	22	30		6014		UNIT ACC1-1
			1330		23	24				6014	
	6014				25	26					
UNIT ACC2-1		6014		30	27	28	20				SPARE
			6014		29	30					
SPARE				20	31	32	20				SPARE
SPARE				20	33	34	20				SPARE
SPARE				20	35	36	20				SPARE
SUBTOTAL	88022	88022	88022					60974	60974	60974	SUBTOTAL

NOTES:	TOTAL WATTS L1: 148996
	TOTAL WATTS L2: 148996
	TOTAL WATTS L3: 148996
	TOTAL WATTS: 446988
C.B. TYPE	TOTAL AMPS @ 100%: 538 AMPS
S=SHUNT TRIP G=GFCI	TOTAL AMPS @ 125%: 673 AMPS
L=LOCK ON C.B. H=HACR C.B.	
AF=ARC FAULT	TOTAL PANEL RECPT LOAD = 0 WATTS

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Sanford School Department and State of Maine Department of Education

SANFORD HIGH SCHOOL and TECHNICAL CENTER

SANFORD, ME 04073

NO.	DESCRIPTION	DATE

CONTENT: PANELBOARD SCHEDULES

DRAWN BY:	C. NEWELL
PROJECT NO:	12-067-00
DATE:	02/11/2016
REVISED:	
SCALE:	NO SCALE

E0.14

Project Phase

BID DOCUMENTS

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FOR ADDITIONAL INFORMATION, REFER TO PROJECT MANUAL.

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DRAWING NOTES

1 THE FOLLOWING NOTES ONLY APPLY TO THIS DRAWING.

2 REFER TO GENERAL NOTES, ELECTRICAL TRADE NOTES, LEGEND AND ABBREVIATIONS ON DRAWING E0.01.

PANELBOARD: L4N2D1

BUS SIZE: 125 AMPS — MAIN: MLO
VOLTAGE: 480 Y/277V 3PH,4W — NEUTRAL: 100%
SERVICE RATED: NO — LOCATION: ELEC D247
ISOLATED GND BUS: NO — MOUNTING: SURFACE
SHORT CIR. CURRENT RATING 18000 AMPS — TVSS: NO

DIRECTORY	WATTS OF LOAD L1	L2	L3	CKT BKR AMPS	POLES	POLES	CKT BKR AMPS	WATTS OF LOAD L1	L2	L3	DIRECTORY
LTG - MARKETING & MANG D245	2587			20	1	2	20	3265			LTG - CONFERENCE/INST D249
LTG - BUI & MNG 2ND LEVEL D220		814		20	3	4	20		1875		LTG - BIO-SCIENCE LAB D233
LTG - CLASSROOM D217			2472	20	5	6	20			2754	LTG - CLASSROOM D230
LTG - BUI & MNG 2ND LEVEL D220	410			20	7	8	20	1440			LTG - OFFICE D211
SPARE				20	9	10	20		1272		LTG - OFFICE A211E
SPARE				20	11	12	20				SPARE
SPARE				20	13	14	20				SPARE
SPARE				20	15	16	20				SPARE
SPARE				20	17	18	20				SPARE
SUBTOTAL	2997	814	2472					4705	3147	2754	SUBTOTAL

NOTES:
TOTAL WATTS L1: 7702
TOTAL WATTS L2: 3961
TOTAL WATTS L3: 5226
TOTAL WATTS: 16889
C.B. TYPE — TOTAL AMPS @ 100%: 20 AMPS
S=SHUNT TRIP G=GFCI — TOTAL AMPS @ 125%: 25 AMPS
L=LOCK ON C.B. H=HACR C.B.
AF=ARC FAULT — TOTAL PANEL RECPT LOAD = 0 WATTS

PANELBOARD: D2N2D1

BUS SIZE: 400 AMPS — MAIN: 400 AMP MCB ELECTRONIC TRIP
VOLTAGE: 208 Y/120V 3PH,4W — NEUTRAL: 100%
SERVICE RATED: NO — LOCATION: ELEC D247
ISOLATED GND BUS: NO — MOUNTING: SURFACE
SHORT CIR. CURRENT RATING 22000 AMPS — TVSS: NO

DIRECTORY	WATTS OF LOAD L1	L2	L3	CKT BKR AMPS	POLES	POLES	CKT BKR AMPS	WATTS OF LOAD L1	L2	L3	DIRECTORY
	6888				1	2		3784			
PANEL P2N2D1		7680		125	3	4	125		5584		PANEL P2N2D2
			7995		5	6				4140	
	10440				7	8		11060			
PANEL P2N2D3		9420		125	9	10	125		11580		PANEL P2N2D4
			9720		11	12				9420	
					13	14					
SPARE				20	15	16	20				SPARE
					17	18					
UNIT ACC-1	1664			20	19	20	20	1664			UNIT ACC-11
		1664			21	22			1664		
UNIT ACC-12			1664	20	23	24	20			1664	UNIT ACC-13
	1664				25	26		1664			
FAN KEF-4		1373		25	27	28	20		1664		UNIT ACC-18
			1373		29	30				1664	
SPARE				20	31	32	20	696			FAN EF-D132
					33	34	20		696		FAN EF-D129
FAN EF-247			528	20	35	36	20			1176	FAN KEF-5
FAN DEF-2	1176			20	37	38	20	528			FAN EF-D146
SPARE				20	39	40	20				SPARE
SPARE				20	41	42	20				SPARE
SUBTOTAL	21832	20137	21280					19396	21188	18064	SUBTOTAL

NOTES:
TOTAL WATTS L1: 41228
TOTAL WATTS L2: 41325
TOTAL WATTS L3: 39344
TOTAL WATTS: 121897
C.B. TYPE — TOTAL AMPS @ 100%: 339 AMPS
S=SHUNT TRIP G=GFCI — TOTAL AMPS @ 125%: 423 AMPS
L=LOCK ON C.B. H=HACR C.B.
AF=ARC FAULT — TOTAL PANEL RECPT LOAD = 0 WATTS

PANELBOARD: P2N2D1

BUS SIZE: 125 AMPS — MAIN: MLO
VOLTAGE: 208 Y/120V 3PH,4W — NEUTRAL: 100%
SERVICE RATED: NO — LOCATION: ELEC D247
ISOLATED GND BUS: NO — MOUNTING: SURFACE
SHORT CIR. CURRENT RATING 22000 AMPS — TVSS: NO

DIRECTORY	WATTS OF LOAD L1	L2	L3	CKT BKR AMPS	POLES	POLES	CKT BKR AMPS	WATTS OF LOAD L1	L2	L3	DIRECTORY
UNITS AC2-1, 2, 3, 4 & 5				20	1	2	20				SPARE
					3	4					
LTG - GUID RECEPTION A210A - P5			75	20	5	6	20			720	RECEP - OFFICE D241
FLOOR BOX B1/LCD - INSTR D249	660			20	7	8	20	360			QUAD RECEP - OFFICE D241
RECEP - CONF INSTRUCT D249		540		20	9	10	20		300		IWB RECEP - EARTH CLASS E237
RECEP - CONF INSTRUCT D249			540	20	11	12	20			540	RECEP - EARTH CLASSROOM E237
IWB RECEP - MARKETING D245	300			20	13	14	20	720			RECEP - EARTH CLASSROOM E237
FLOOR BOX B2 - MARKETING D245		360		20	15	16	20		360		RECEP - EARTH CLASSROOM E237
LCD (3) - MARKETING D245			900	20	17	18	20			360	CNTR RECEP - EARTH CLASS E237
LCD (3) - MARKETING D245	900			20	19	20	20	300			IWB RECEP - BUSINESS D243
RECEP - MARKETING D245		720		20	21	22	20		900		LCD (3) - BUSINESS D243
RECEP - MARKETING D245			720	20	23	24	20			600	LCD (2) - BUSINESS D243
RECEP DESK - MARKETING D245	540			20	25	26	20	720			RECEP - BUSINESS D243
RECEP DESK - MARKETING D245		540		20	27	28	20		720		RECEP - BUSINESS D243
RECEP DESK - MARKETING D245			540	20	29	30	20			540	RECEP DESK - BUSINESS D243
RECEP DESK - MARKETING D245	540			20	31	32	20	540			RECEP DESK - BUSINESS D243
RECEP DESK - MARKETING D245		540		20	33	34	20		540		RECEP DESK - BUSINESS D243
RECEP DESK - MARKETING D245			540	20	35	36	20			540	RECEP DESK - BUSINESS D243
FAN EF-A237	528			20	37	38	20	540			RECEP DESK - BUSINESS D243
FAN KEF-6		1920		30	39	40	20		540		RECEP DESK - BUSINESS D243
FANS EF-A131 & EF-D220			840	20	41	42	20			540	RECEP DESK - BUSINESS D243
LCD (2) - BUSINESS D243	600			20	43	44	20	540			RECEP DESK - BUSINESS D243
SPARE				20	45	46	20				SPARE
SPARE				20	47	48	20				SPARE
SPARE				20	49	50	20				SPARE
SPARE				20	51	52	20				SPARE
SPARE				20	53	54	20				SPARE
SUBTOTAL	4068	4620	4155					3720	3360	3840	SUBTOTAL

NOTES:
TOTAL WATTS L1: 7788
TOTAL WATTS L2: 7980
TOTAL WATTS L3: 7995
TOTAL WATTS: 23763
C.B. TYPE — TOTAL AMPS @ 100%: 66 AMPS
S=SHUNT TRIP G=GFCI — TOTAL AMPS @ 125%: 83 AMPS
L=LOCK ON C.B. H=HACR C.B.
AF=ARC FAULT — TOTAL PANEL RECPT LOAD = 14580 WATTS

PANELBOARD: P2N2D2

BUS SIZE: 125 AMPS — MAIN: 125 AMP MCB (SHUNT-TRIP)
VOLTAGE: 208 Y/120V 3PH,4W — NEUTRAL: 100%
SERVICE RATED: NO — LOCATION: BIO SCIENCE LAB D219
ISOLATED GND BUS: NO — MOUNTING: RECESSED
SHORT CIR. CURRENT RATING 22000 AMPS — TVSS: NO

DIRECTORY	WATTS OF LOAD L1	L2	L3	CKT BKR AMPS	POLES	POLES	CKT BKR AMPS	WATTS OF LOAD L1	L2	L3	DIRECTORY
UNITS AC2-1, 2, 3, 4 & 5	144			20	1	2	20	300			IWB RECEP - LAB D233
		144			3	4	20		720		RECEP - DESK LAB D233
CNTR QUAD RECEP - LAB D219			360	20	5	6	20			360	GOGGLE SAN. RECEP - LAB D233
GOGGLE SAN. RECEP - LAB D219	360			20	7	8	20	360			RECEP - LAB D233
COUNTER RECEP - LAB D219		360		20	9	10	20		360		COUNTER RECEP - LAB D233
COUNTER RECEP - LAB D219			360	20	11	12	20			360	COUNTER RECEP - LAB D233
COUNTER RECEP - LAB D219	360			20	13	14	20	360			COUNTER RECEP - LAB D233
COUNTER RECEP - LAB D219		360		20	15	16	20		360		CNTR QUAD RECEP - LAB D233
CNTR QUAD RECEP - LAB D219			360	20	17	18	20			360	CNTR QUAD RECEP - LAB D233
CNTR QUAD RECEP - LAB D219	360			20	19	20	20	360			CNTR QUAD RECEP - LAB D233
CNTR QUAD RECEP - LAB D219		360		20	21	22	20		360		CNTR QUAD RECEP - LAB D233
CNTR QUAD RECEP - LAB D219			360	20	23	24	20			360	CNTR QUAD RECEP - LAB D233
CNTR QUAD RECEP - LAB D219	360			20	25	26	20	360			CNTR QUAD RECEP - LAB D233
IWB RECEP - LAB D219		300		20	27	28	20G		1500		REFRIGERATOR - PREP RM D227
RECEP - DESK LAB D219			540	20	29	30	20			360	COUNTER RECEP - PREP D227
SHUNT-TRIP POWER	100			20	31	32	20	360			COUNTER RECEP - PREP D227
JUNCTION - DAMPERS - D220		400		20	33	34	20		360		COUNTER RECEP - PREP D227
SPARE				20	35	36	20			360	COUNTER RECEP - PREP D227
SPARE				20	37	38	20				SPARE
SPARE				20	39	40	20				SPARE
SPARE				20	41	42	20				SPARE
SUBTOTAL	1684	1924	1980					2100	3660	2160	SUBTOTAL

NOTES:
TOTAL WATTS L1: 3784
TOTAL WATTS L2: 5584
TOTAL WATTS L3: 4140
TOTAL WATTS: 13508
C.B. TYPE — TOTAL AMPS @ 100%: 38 AMPS
S=SHUNT TRIP G=GFCI — TOTAL AMPS @ 125%: 47 AMPS
L=LOCK ON C.B. H=HACR C.B.
AF=ARC FAULT — TOTAL PANEL RECPT LOAD = 10620 WATTS

PANELBOARD: M4N1A1

BUS SIZE: 400 AMPS — MAIN: MLO
VOLTAGE: 480 Y/277V 3PH,4W — NEUTRAL: 100%
SERVICE RATED: NO — LOCATION: CUSTODIAL F116
ISOLATED GND BUS: NO — MOUNTING: SURFACE
SHORT CIR. CURRENT RATING 35000 AMPS — TVSS: NO

DIRECTORY	WATTS OF LOAD L1	L2	L3	CKT BKR AMPS	POLES	POLES	CKT BKR AMPS	WATTS OF LOAD L1	L2	L3	DIRECTORY
	26937				1	2		21447			
UNIT DHU-10		26937		110	3	4	100		21447		UNIT DHU-11
			26937		5	6				21447	
	17866				7	8		29506			
UNIT AHU-2		17866		80	9	10	125		29506		UNIT AHU-9
			17866		11	12				29506	
					13	14					
SPARE				20	15	16	20				SPARE
					17	18					
					19	20	20				SPARE
SPARE				20	21	22	20				SPARE
					23	24	20				SPARE
SUBTOTAL	44803	44803	44803					50953	50953	50953	SUBTOTAL

NOTES:
TOTAL WATTS L1: 95756
TOTAL WATTS L2: 95756
TOTAL WATTS L3: 95756
TOTAL WATTS: 287268
C.B. TYPE — TOTAL AMPS @ 100%: 346 AMPS
S=SHUNT TRIP G=GFCI — TOTAL AMPS @ 125%: 432 AMPS
L=LOCK ON C.B. H=HACR C.B.
AF=ARC FAULT — TOTAL PANEL RECPT LOAD = 0 WATTS

PANELBOARD: D4NFF1

BUS SIZE: 800 AMPS — MAIN: 800 AMP MCB ELECTRONIC TRIP
VOLTAGE: 480 Y/277V 3PH,4W — NEUTRAL: 100%
SERVICE RATED: YES — LOCATION: STADIUM ELECTRIC ROOM
ISOLATED GND BUS: NO — MOUNTING: SURFACE
SHORT CIR. CURRENT RATING 35000 AMPS — TVSS: NO

DIRECTORY	WATTS OF LOAD L1	L2	L3	CKT BKR AMPS	POLES	POLES	CKT BKR AMPS	WATTS OF LOAD L1	L2	L3	DIRECTORY
	50563				1	2					
PANEL P4NFF1		48888		400ET	3	4	400ET				SPARE
			50278		5	6					
					7	8					
SPARE				225ET	9	10	225ET				SPARE
					11	12					
					13	14					
SPARE				150ET	15	16	125				SPARE
					17	18					
					19	20					
SPARE				125	21	22	125				SPARE
					23	24					
					25	26					
SPARE				100	27	28	100				SPARE
					29	30					
SUBTOTAL	50563	48888	50278					0	0	0	SUBTOTAL

NOTES:
TOTAL WATTS L1: 50563
TOTAL WATTS L2: 48888
TOTAL WATTS L3: 50278
TOTAL WATTS: 149729
C.B. TYPE — TOTAL AMPS @ 100%: 180 AMPS
S=SHUNT TRIP G=GFCI — TOTAL AMPS @ 125%: 225 AMPS
L=LOCK ON C.B. H=HACR C.B.
AF=ARC FAULT — TOTAL PANEL RECPT LOAD = 0 WATTS

PANELBOARD: P4NFF1

BUS SIZE: 400 AMPS — MAIN: MLO
VOLTAGE: 480 Y/277V 3PH,4W — NEUTRAL: 100%
SERVICE RATED: YES — LOCATION: STADIUM ELECTRIC ROOM
ISOLATED GND BUS: NO — MOUNTING: SURFACE
SHORT CIR. CURRENT RATING 35000 AMPS — TVSS: NO

DIRECTORY	WATTS OF LOAD L1	L2	L3	CKT BKR AMPS	POLES	POLES	CKT BKR AMPS	WATTS OF LOAD L1	L2	L3	DIRECTORY
	9228				1	2		9228			
POLE F1 - CONTACTOR C1		9228		40	3	4	40		9228		POLE F2 - CONTACTOR C2
GAME LIGHTS			9228		5	6				9228	GAME LIGHTS
	9228				7	8		9228			
POLE F3 - CONTACTOR C3		9228		40	9	10	40		9228		POLE F4 - CONTACTOR C4
GAME LIGHTS			9228		11	12				9228	GAME LIGHTS
	2051				13	14		2051			
POLE F1 - CONTACTOR C5		2051		20	15	16	20		2051		POLE F2 - CONTACTOR C6
WALKING TRACK			2051		17	18				2051	WALKING TRACK
	2051				19	20		2051			
POLE F3 - CONTACTOR C7		2051		20	21	22	20		2051		POLE F4 - CONTACTOR C8
WALKING TRACK			2051		23	24				2051	WALKING TRACK
					25	26		4630			
SPARE				30	27	28	150ET		3500		PANEL P2NFF1
					29	30				3500	VIA TRANSFORMER TFF
					31	32	20	477			SITE LIGHTING CKT #10
SPARE				20	33	34	20		272		SITE LIGHTING CKT #11
					35	36	20			1662	SITE LIGHTING CKT #12
					37	38	20	340			SITE LIGHTING CKT #13
SPARE				20	39	40	20				SPARE
					41	42	20				SPARE
SUBTOTAL	22558	22558	22558					28005	26330	27720	SUBTOTAL

NOTES:
TOTAL WATTS L1: 50563
TOTAL WATTS L2: 48888
TOTAL WATTS L3: 50278
TOTAL WATTS: 149729
C.B. TYPE — TOTAL AMPS @ 100%: 180 AMPS
S=SHUNT TRIP G=GFCI — TOTAL AMPS @ 125%: 225 AMPS
L=LOCK ON C.B. H=HACR C.B.
AF=ARC FAULT — TOTAL PANEL RECPT LOAD = 0 WATTS

PANELBOARD: P2NFF1

BUS SIZE: 250 AMPS — MAIN: 250 AMP MCB ELECTRONIC TRIP
VOLTAGE: 208 Y/120V 3PH,4W — NEUTRAL: 100%
SERVICE RATED: NO — LOCATION: STADIUM ELECTRIC ROOM
ISOLATED GND BUS: NO — MOUNTING: SURFACE
SHORT CIR. CURRENT RATING 22000 AMPS — TVSS: NO

DIRECTORY	WATTS OF LOAD L1	L2	L3	CKT BKR AMPS	POLES	POLES	CKT BKR AMPS	WATTS OF LOAD L1	L2	L3	DIRECTORY
	3500				1	2					
PRESS BOX PANEL		3500		100	3	4	100				SPARE
			3500		5	6					
MUSCO CONTROL POWER	1000			20	7	8	20	130			LTG - ROOM
SPARE				20	9	10	20				SPARE
SPARE				20	11	12	20				SPARE
SPARE				20	13	14	20				SPARE
SPARE				20	15	16	20				SPARE
SPARE				20	17	18	20				SPARE
SPARE				20	19	20	20				SPARE
SPARE				20	21	22	20				SPARE
SPARE				20	23	24	20				SPARE
SPARE				20	25	26	20				SPARE
SPARE				20	27	28	20				SPARE
SPARE				20	29	30	20				SPARE
SPARE				20	31	32	20				SPARE
SPARE				20	33	34	20				SPARE
SPARE				20	35	36	20				SPARE
SPARE				20	37	38	20				SPARE
SPARE				20	39	40	20				SPARE
SPARE				20	41	42	20				SPARE
SUBTOTAL	4500	3500	3500					130	0	0	SUBTOTAL

NOTES:
TOTAL WATTS L1: 4630
TOTAL WATTS L2: 3500
TOTAL WATTS L3: 3500
TOTAL WATTS: 11630
C.B. TYPE — TOTAL AMPS @ 100%: 32 AMPS
S=SHUNT TRIP G=GFCI — TOTAL AMPS @ 125%: 40 AMPS
L=LOCK ON C.B. H=HACR C.B.
AF=ARC FAULT — TOTAL PANEL RECPT LOAD = 0 WATTS

PANELBOARD: P2N1B4

BUS SIZE: 125 AMPS — MAIN: MLO
VOLTAGE: 208 Y/120V 3PH,4W — NEUTRAL: 100%
SERVICE RATED: NO — LOCATION: ELEC A193
ISOLATED GND BUS: NO — MOUNTING: SURFACE
SHORT CIR. CURRENT RATING 22000 AMPS — TVSS: NO

DIRECTORY	WATTS OF LOAD L1	L2	L3	CKT BKR AMPS	POLES	POLES	CKT BKR AMPS	WATTS OF LOAD L1	L2	L3	DIRECTORY
RECEP - TOILET B124	360			20	1	2	20	540			RECEP - OFFICE B130
RECEP - BAND STORAGE B142A		720		20	3	4	20		540		RECEP - OFFICE B130
RECEP - BAND STORAGE B142A			720	20	5	6	20			720	RECEP - LG PRACTICE B140A
RECEP - GREEN ROOM B128	720			20	7	8	20	540			RECEP - SM PRACTICE B140B
LCD - GREEN ROOM B128		300		20	9	10	20		540		RECEP - SM PRACTICE B140C
IWB RECEP - BAND B142			300	20	11	12	20			540	RECEP - SM PRACTICE B140D
RECEP - BAND B142	540			20	13	14	20	720			RECEP - SM PRACTICE B140E
RECEP - BAND B142		540		20	15	16	20		540		RECEP - MUSIC OFFICE B144A
RECEP - BAND B142			720	20	17	18	20			360	QUAD RECEP - MUSIC OFF. B144A
AV QUAD RECEP - BAND B142	360			20	19	20	20	360			QUAD RECEP - MUSIC OFF. B144A
LCD - BAND B142		300		20	21	22	20		1200		PRINTER - MUSIC OFF. B144A
IWB RECEP - CHORUS B144			300	20	23	24	20			300	IWB RECEP - MIDI LAB B146
RECEP - CHORUS B144	540			20	25	26	20	540			RECEP - MIDI LAB B146
RECEP - CHORUS B144		540		20	27	28	20		540		RECEP - MIDI LAB B146
RECEP - CHORUS B144			540	20	29	30	20			360	AV QUAD RECEP - MIDI LAB B146
AV QUAD RECEP - CHORUS B144	360			20	31	32	20	540			RECEP DESK - MIDI LAB B146
LCD - CHORUS B144		300		20	33	34	20		540		RECEP DESK - MIDI LAB B146
SPARE				20	35	36	20			540	RECEP DESK - MIDI LAB B146
SPARE				20	37	38	20	540			RECEP DESK - MIDI LAB B146
SPARE				20	39	40	20		360		RECEP DESK - MIDI LAB B146
SPARE				20	41	42	20			360	RECEP DESK - MIDI LAB B146
SPARE				20	43	44	20				SPARE
SPARE				20	45	46	20				SPARE
SPARE				20	47	48	20				SPARE
SPARE				20	49	50	20				SPARE
SPARE				20	51	52	20				SPARE
SPARE				20	53	54	20				SPARE
SUBTOTAL	2880	2700	2580					3780	4260	3180	SUBTOTAL

NOTES:
TOTAL WATTS L1: 6660
TOTAL WATTS L2: 6960
TOTAL WATTS L3: 5760
TOTAL WATTS: 19380
C.B. TYPE — TOTAL AMPS @ 100%: 54 AMPS
S=SHUNT TRIP G=GFCI — TOTAL AMPS @ 125%: 67 AMPS
L=LOCK ON C.B. H=HACR C.B.
AF=ARC FAULT — TOTAL PANEL RECPT LOAD = 15300 WATTS

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Sanford School Department and State of Maine Department of Education

SANFORD HIGH SCHOOL and TECHNICAL CENTER

SANFORD, ME 04073

NO.	DESCRIPTION	DATE

FOR ADDITIONAL INFORMATION, REFER TO PROJECT MANUAL.

CONTENT: PANELBOARD SCHEDULES

DRAWN BY: C. NEWELL
PROJECT NO: 12-067-00
DATE: 02/11/2016
REVISED:
SCALE: NO SCALE

E0.15

Project Phase
BID DOCUMENTS

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DRAWING NOTES

1 THE FOLLOWING NOTES ONLY APPLY TO THIS DRAWING.

2 REFER TO GENERAL NOTES, ELECTRICAL TRADE NOTES, LEGEND AND ABBREVIATIONS ON DRAWING E0.01.

PANELBOARD: P2S1A1

BUS SIZE: 100 AMPS — MAIN: MLO
VOLTAGE: 208 Y/120V 3PH,4W — NEUTRAL: 100%
SERVICE RATED: NO — LOCATION: ELEC A174
ISOLATED GND BUS: NO — MOUNTING: SURFACE
SHORT CIR. CURRENT RATING 22000 AMPS — TVSS: NO

DIRECTORY	WATTS OF LOAD L1	L2	L3	CKT BKR AMPS	POLES		CKT BKR AMPS	WATTS OF LOAD L1	L2	L3	DIRECTORY
POWER PS3 - VESTIBULE F119A	600			20	1	2	20	500			DAP - IT SERVER/DATA A184A
ELEVATOR #1 RECEP & LIGHT		400		20	3	4	20		1176		ELEVATOR SUMP PUMP SP-1
POWER PS3/PS2 - ADMIN. A110			1200	20	5	6	20			1200	DOOR OPERATOR - ENTRY A171
POWER PS3 - STORAGE F102A	1200			20	7	8	20	1200			DOOR OPERATOR - ENTRY A171
POWER PS3 - SEC. ENTRY A178		300		20	9	10	20		840		HEATERS CUH-11 &12
BAS PANEL - ELEC A174			300	20	11	12	20			1512	HEATERS CUH-20 & 21
CIRC PUMP CP-2	864			20	13	14	20	864			CIRC PUMP CP-4
HEATERS CUH-13 & 16		840		20	15	16	20		600		POWER PS3 - CORRIDOR F128
HEATERS CUH-14 & 15			840	20	17	18	20			1200	POWER PS3/PS2 - WAITING A101A
HEATERS CUH-17, 18 & 22	1260			20	19	20	20	900			POWER PS3 - STORAGE F102A
JUNCTION - DAMPERS - A170		400		20	21	22	20		900		RECEP - RECEPTION A101
QUAD RECEP - RECEPTION A101			360	20	23	24	20			360	QUAD RECEP - RECEPTION A101
QUAD RECEP - RECEPTION A101	360			20	25	26	20	360			QUAD RECEP - RECEPTION A101
SPARE				20	27	28	20				SPARE
SPARE				20	29	30	20				SPARE
SUBTOTAL	4284	1940	2700					3824	3516	4272	SUBTOTAL

NOTES:	TOTAL WATTS L1: 8108
	TOTAL WATTS L2: 5456
STANDBY POWER	TOTAL WATTS L3: 6972
	TOTAL WATTS: 20536
C.B. TYPE	TOTAL AMPS @ 100%: 57 AMPS
S=SHUNT TRIP G=GFCI	TOTAL AMPS @ 125%: 71 AMPS
L=LOCK ON C.B. H=HACR C.B.	
AF=ARC FAULT	TOTAL PANEL RECPT LOAD = 2340 WATTS

PANELBOARD: P2S1B1

BUS SIZE: 100 AMPS — MAIN: MLO
VOLTAGE: 208 Y/120V 3PH,4W — NEUTRAL: 100%
SERVICE RATED: NO — LOCATION: ELEC A193
ISOLATED GND BUS: NO — MOUNTING: SURFACE
SHORT CIR. CURRENT RATING 22000 AMPS — TVSS: NO

DIRECTORY	WATTS OF LOAD L1	L2	L3	CKT BKR AMPS	POLES		CKT BKR AMPS	WATTS OF LOAD L1	L2	L3	DIRECTORY
HEATER CUH-19	420			20	1	2	20	360			QUAD RECEP - DATA B132
QUAD RECEP - DATA B132		360		20	3	4	20		360		QUAD RECEP - DATA B132
QUAD RECEP - DATA B132			360	20	5	6	20			360	QUAD RECEP - DATA B132
QUAD RECEP - DATA B132	360			20	7	8	20	1176			CIRC PUMP CP-6
DOOR ACCESS DAP - DATA B132		400		20	9	10	20		600		POWER PS3 (2) - B110
HEATER CUH-5			756	20	11	12	20			300	BAS PANEL - ELEC A193
CIRC PUMP CP-5	864			20	13	14	20				SPARE
SPARE				20	15	16	20				SPARE
SPARE				20	17	18	20				SPARE
SPARE				20	19	20	20				SPARE
SPARE				20	21	22	20				SPARE
SPARE				20	23	24	20				SPARE
SUBTOTAL	1644	760	1116					1536	960	660	SUBTOTAL

NOTES:	TOTAL WATTS L1: 3180
	TOTAL WATTS L2: 1720
STANDBY POWER	TOTAL WATTS L3: 1776
	TOTAL WATTS: 6676
C.B. TYPE	TOTAL AMPS @ 100%: 19 AMPS
S=SHUNT TRIP G=GFCI	TOTAL AMPS @ 125%: 23 AMPS
L=LOCK ON C.B. H=HACR C.B.	
AF=ARC FAULT	TOTAL PANEL RECPT LOAD = 0 WATTS

PANELBOARD: P2S1C1

BUS SIZE: 100 AMPS — MAIN: MLO
VOLTAGE: 208 Y/120V 3PH,4W — NEUTRAL: 100%
SERVICE RATED: NO — LOCATION: ELEC C114B
ISOLATED GND BUS: NO — MOUNTING: SURFACE
SHORT CIR. CURRENT RATING 22000 AMPS — TVSS: NO

DIRECTORY	WATTS OF LOAD L1	L2	L3	CKT BKR AMPS	POLES		CKT BKR AMPS	WATTS OF LOAD L1	L2	L3	DIRECTORY
POWER PS3 - CORRIDOR C134D	300			20	1	2	20	1260			HEATERS CUH-2, 3 & 4
QUAD RECEP - DATA ROOM C114A		360		20	3	4	20		600		DAP - DATA ROOM C114A
QUAD RECEP - DATA ROOM C114A			360	20	5	6	20			300	BAS PANEL - ELEC C114B
QUAD RECEP - DATA ROOM C114A	360			20	7	8	20	864			HEATER PUH-5
QUAD RECEP - DATA ROOM C114A		360		20	9	10	20		864		HEATER PUH-6
QUAD RECEP - DATA ROOM C114A			360	20	11	12	20			864	HEATER PUH-7
QUAD RECEP - DATA ROOM C114A	360			20	13	14	20	864			HEATER PUH-8
HEATER PUH-9		864		20	15	16	20		864		HEATER PUH-10
HEATER PUH-11			864	20	17	18	20			864	HEATER PUH-12
HEATER PUH-13	864			20	19	20	20	864			HEATER PUH-14
HEATER PUH-15		864		20	21	22	20		864		HEATER PUH-16
HEATER PUH-17			864	20	23	24	20			864	HEATER PUH-18
HEATER PUH-19	864			20	25	26	20	864			HEATER PUH-20
HEATER PUH-21		864		20	27	28	20		864		HEATER PUH-22
HEATERS PUH-23 & 24			600	20	29	30	20			864	HEATER PUH-25
HEATER PUH-26	864			20	31	32	20	600			HEATERS PUH-35 & 36
SPARE				20	33	34	20				SPARE
SPARE				20	35	36	20				SPARE
SPARE				20	37	38	20				SPARE
SPARE				20	39	40	20				SPARE
SPARE				20	41	42	20				SPARE
SUBTOTAL	3612	3312	3048					5316	4056	3756	SUBTOTAL

NOTES:	TOTAL WATTS L1: 8928
	TOTAL WATTS L2: 7368
STANDBY POWER	TOTAL WATTS L3: 6804
	TOTAL WATTS: 23100
C.B. TYPE	TOTAL AMPS @ 100%: 64 AMPS
S=SHUNT TRIP G=GFCI	TOTAL AMPS @ 125%: 80 AMPS
L=LOCK ON C.B. H=HACR C.B.	
AF=ARC FAULT	TOTAL PANEL RECPT LOAD = 2160 WATTS

PANELBOARD: P2S1D1

BUS SIZE: 100 AMPS — MAIN: MLO
VOLTAGE: 208 Y/120V 3PH,4W — NEUTRAL: 100%
SERVICE RATED: NO — LOCATION: ELEC D146
ISOLATED GND BUS: NO — MOUNTING: SURFACE
SHORT CIR. CURRENT RATING 22000 AMPS — TVSS: NO

DIRECTORY	WATTS OF LOAD L1	L2	L3	CKT BKR AMPS	POLES		CKT BKR AMPS	WATTS OF LOAD L1	L2	L3	DIRECTORY
HEATERS CUH-6 & 8	756			20	1	2	20	500			DOOR ACCESS DAP - DATA D144
HEATER CUH-7		756		20	3	4	20		1200		POWER PS3 (4) - VEST. D140A
QUAD RECEP - DATA D144			360	20	5	6	20			300	BAS PANEL - ELEC D146
QUAD RECEP - DATA D144	360			20	7	8	20	864			HEATER PUH-27
QUAD RECEP - DATA D144		360		20	9	10	20		864		HEATER PUH-28
QUAD RECEP - DATA D144			360	20	11	12	20			864	HEATER PUH-29
QUAD RECEP - DATA D144	360			20	13	14	20	300			HEATER PUH-34
QUAD RECEP - DATA D144		360		20	15	16	20		300		POWER PS2 - BANK D130
SPARE				20	17	18	20				SPARE
SPARE				20	19	20	20				SPARE
SPARE				20	21	22	20				SPARE
SPARE				20	23	24	20				SPARE
SUBTOTAL	1476	1476	720					1664	2364	1164	SUBTOTAL

NOTES:	TOTAL WATTS L1: 3140
	TOTAL WATTS L2: 3840
STANDBY POWER	TOTAL WATTS L3: 1884
	TOTAL WATTS: 8864
C.B. TYPE	TOTAL AMPS @ 100%: 25 AMPS
S=SHUNT TRIP G=GFCI	TOTAL AMPS @ 125%: 31 AMPS
L=LOCK ON C.B. H=HACR C.B.	
AF=ARC FAULT	TOTAL PANEL RECPT LOAD = 2160 WATTS

PANELBOARD: P2S1E1

BUS SIZE: 100 AMPS — MAIN: MLO
VOLTAGE: 208 Y/120V 3PH,4W — NEUTRAL: 100%
SERVICE RATED: NO — LOCATION: ELEC E127B
ISOLATED GND BUS: NO — MOUNTING: SURFACE
SHORT CIR. CURRENT RATING 22000 AMPS — TVSS: NO

DIRECTORY	WATTS OF LOAD L1	L2	L3	CKT BKR AMPS	POLES		CKT BKR AMPS	WATTS OF LOAD L1	L2	L3	DIRECTORY
HEATERS CUH-9 & 10	840			20	1	2	20	360			QUAD RECEP - DATA E127A
QUAD RECEP - DATA E127A		360		20	3	4	20		360		QUAD RECEP - DATA E127A
QUAD RECEP - DATA E127A			360	20	5	6	20			360	QUAD RECEP - DATA E127A
QUAD RECEP - DATA E127A	360			20	7	8	20	300			POWER PS3 - STAIR F - E154
BAS PANEL - ELEC E127B		300		20	9	10	20		864		HEATER PUH-30
SPARE				20	11	12	20			864	HEATER PUH-31
SPARE				20	13	14	20	600			HEATERS PUH-32 & 33
SPARE				20	15	16	20				SPARE
SPARE				20	17	18	20				SPARE
SPARE				20	19	20	20				SPARE
SPARE				20	21	22	20				SPARE
SPARE				20	23	24	20				SPARE
SUBTOTAL	1200	660	360					1260	1224	1224	SUBTOTAL

NOTES:	TOTAL WATTS L1: 2460
	TOTAL WATTS L2: 1884
STANDBY POWER	TOTAL WATTS L3: 1584
	TOTAL WATTS: 5928
C.B. TYPE	TOTAL AMPS @ 100%: 16 AMPS
S=SHUNT TRIP G=GFCI	TOTAL AMPS @ 125%: 21 AMPS
L=LOCK ON C.B. H=HACR C.B.	
AF=ARC FAULT	TOTAL PANEL RECPT LOAD = 0 WATTS

PANELBOARD: P2S2B1

BUS SIZE: 100 AMPS — MAIN: MLO
VOLTAGE: 208 Y/120V 3PH,4W — NEUTRAL: 100%
SERVICE RATED: NO — LOCATION: ELEC B228A
ISOLATED GND BUS: NO — MOUNTING: SURFACE
SHORT CIR. CURRENT RATING 22000 AMPS — TVSS: NO

DIRECTORY	WATTS OF LOAD L1	L2	L3	CKT BKR AMPS	POLES		CKT BKR AMPS	WATTS OF LOAD L1	L2	L3	DIRECTORY
BAS PANEL - ELEC B228A	300			20	1	2	20	864			CIRC PUMP CP-9
SPARE				20	3	4	20				SPARE
SPARE				20	5	6	20				SPARE
SPARE				20	7	8	20				SPARE
SPARE				20	9	10	20				SPARE
SPARE				20	11	12	20				SPARE
SPARE				20	13	14	20				SPARE
SPARE				20	15	16	20				SPARE
SPARE				20	17	18	20				SPARE
SPARE				20	19	20	20				SPARE
SPARE				20	21	22	20				SPARE
SPARE				20	23	24	20				SPARE
SUBTOTAL	300	0	0					864	0	0	SUBTOTAL

NOTES:	TOTAL WATTS L1: 1164
	TOTAL WATTS L2: 0
STANDBY POWER	TOTAL WATTS L3: 0
	TOTAL WATTS: 1164
C.B. TYPE	TOTAL AMPS @ 100%: 3 AMPS
S=SHUNT TRIP G=GFCI	TOTAL AMPS @ 125%: 4 AMPS
L=LOCK ON C.B. H=HACR C.B.	
AF=ARC FAULT	TOTAL PANEL RECPT LOAD = 0 WATTS

PANELBOARD: P2S2C1

BUS SIZE: 100 AMPS — MAIN: MLO
VOLTAGE: 208 Y/120V 3PH,4W — NEUTRAL: 100%
SERVICE RATED: NO — LOCATION: ELEC C223A
ISOLATED GND BUS: NO — MOUNTING: SURFACE
SHORT CIR. CURRENT RATING 22000 AMPS — TVSS: NO

DIRECTORY	WATTS OF LOAD L1	L2	L3	CKT BKR AMPS	POLES		CKT BKR AMPS	WATTS OF LOAD L1	L2	L3	DIRECTORY
QUAD RECEP - DATA C223	360			20	1	2	20	360			QUAD RECEP - DATA C223
QUAD RECEP - DATA C223		360		20	3	4	20		360		QUAD RECEP - DATA C223
QUAD RECEP - DATA C223			360	20	5	6	20			360	QUAD RECEP - DATA C223
BAS PANEL - ELEC C223A	300			20	7	8	20				SPARE
CIRC PUMP CP-7		864		20	9	10	20				SPARE
SPARE				20	11	12	20				SPARE
SPARE				20	13	14	20				SPARE
SPARE				20	15	16	20				SPARE
SPARE				20	17	18	20				SPARE
SPARE				20	19	20	20				SPARE
SPARE				20	21	22	20				SPARE
SPARE				20	23	24	20				SPARE
SUBTOTAL	660	1224	360					360	360	360	SUBTOTAL

NOTES:	TOTAL WATTS L1: 1020
	TOTAL WATTS L2: 1584
STANDBY POWER	TOTAL WATTS L3: 720
	TOTAL WATTS: 3324
C.B. TYPE	TOTAL AMPS @ 100%: 9 AMPS
S=SHUNT TRIP G=GFCI	TOTAL AMPS @ 125%: 12 AMPS
L=LOCK ON C.B. H=HACR C.B.	
AF=ARC FAULT	TOTAL PANEL RECPT LOAD = 2160 WATTS

PANELBOARD: P2S2D1

BUS SIZE: 100 AMPS — MAIN: MLO
VOLTAGE: 208 Y/120V 3PH,4W — NEUTRAL: 100%
SERVICE RATED: NO — LOCATION: ELEC D247
ISOLATED GND BUS: NO — MOUNTING: SURFACE
SHORT CIR. CURRENT RATING 22000 AMPS — TVSS: NO

DIRECTORY	WATTS OF LOAD L1	L2	L3	CKT BKR AMPS	POLES		CKT BKR AMPS	WATTS OF LOAD L1	L2	L3	DIRECTORY
QUAD RECEP - DATA D210A	360			20	1	2	20	360			QUAD RECEP - DATA D210A
QUAD RECEP - DATA D210A		360		20	3	4	20		360		QUAD RECEP - DATA D210A
QUAD RECEP - DATA D210A			360	20	5	6	20			360	QUAD RECEP - DATA D210A
BAS PANEL - ELEC D247	300			20	7	8	20				DOOR ACCESS DAP - DATA D210A
CIRC PUMP CP-8		1176		20	9	10	20				SPARE
CIRC PUMP CP-D6			1176	20	11	12	20				SPARE
SPARE				20	13	14	20				SPARE
SPARE				20	15	16	20				SPARE
SPARE				20	17	18	20				SPARE
SPARE				20	19	20	20				SPARE
SPARE				20	21	22	20				SPARE
SPARE				20	23	24	20				SPARE
SUBTOTAL	660	1536	1536					360	360	360	SUBTOTAL

NOTES:	TOTAL WATTS L1: 1020
	TOTAL WATTS L2: 1896
STANDBY POWER	TOTAL WATTS L3: 1896
	TOTAL WATTS: 4812
C.B. TYPE	TOTAL AMPS @ 100%: 13 AMPS
S=SHUNT TRIP G=GFCI	TOTAL AMPS @ 125%: 17 AMPS
L=LOCK ON C.B. H=HACR C.B.	
AF=ARC FAULT	TOTAL PANEL RECPT LOAD = 2160 WATTS

PANELBOARD: P2S2E1

BUS SIZE: 100 AMPS — MAIN: MLO
VOLTAGE: 208 Y/120V 3PH,4W — NEUTRAL: 100%
SERVICE RATED: NO — LOCATION: ELEC E227B
ISOLATED GND BUS: NO — MOUNTING: SURFACE
SHORT CIR. CURRENT RATING 22000 AMPS — TVSS: NO

DIRECTORY	WATTS OF LOAD L1	L2	L3	CKT BKR AMPS	POLES		CKT BKR AMPS	WATTS OF LOAD L1	L2	L3	DIRECTORY
QUAD RECEP - DATA E227A	360			20	1	2	20	360			QUAD RECEP - DATA E227A
QUAD RECEP - DATA E227A		360		20	3	4	20		360		QUAD RECEP - DATA E227A
QUAD RECEP - DATA E227A			360	20	5	6	20			360	QUAD RECEP - DATA E227A
POWER PS3 - STAIR F E254	300			20	7	8	20				SPARE
SPARE				20	9	10	20				SPARE
SPARE				20	11	12	20				SPARE
SPARE				20	13	14	20				SPARE
SPARE				20	15	16	20				SPARE
SPARE				20	17	18	20				SPARE
SPARE				20	19	20	20				SPARE
SPARE				20	21	22	20				SPARE
SPARE				20	23	24	20				SPARE
SUBTOTAL	660	360	360					360	360	360	SUBTOTAL

NOTES:	TOTAL WATTS L1: 1020
	TOTAL WATTS L2: 720
STANDBY POWER	TOTAL WATTS L3: 720
	TOTAL WATTS: 2460
C.B. TYPE	TOTAL AMPS @ 100%: 7 AMPS
S=SHUNT TRIP G=GFCI	TOTAL AMPS @ 125%: 9 AMPS
L=LOCK ON C.B. H=HACR C.B.	
AF=ARC FAULT	TOTAL PANEL RECPT LOAD = 2160 WATTS

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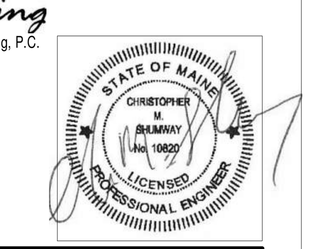

Sanford School Department and State of Maine Department of Education

SANFORD HIGH SCHOOL and TECHNICAL CENTER

SANFORD, ME 04073

NO.	DESCRIPTION	DATE

CONTENT:
PANELBOARD SCHEDULES

DRAWN BY:	C. NEWELL
PROJECT NO:	12-067-00
DATE:	02/11/2016
REVISED:	
SCALE:	NO SCALE

E0.16

Project Phase
BID DOCUMENTS

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FOR ADDITIONAL INFORMATION, REFER TO PROJECT MANUAL.

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DRAWING NOTES

1 THE FOLLOWING NOTES ONLY APPLY TO THIS DRAWING.

2 REFER TO GENERAL NOTES, ELECTRICAL TRADE NOTES, LEGEND AND ABBREVIATIONS ON DRAWING E0.01.

FUSED PANELBOARD: P4LS1A1

BUS SIZE: 60 AMPS | MAIN: MLO | SURGE SUPPRESSION
VOLTAGE: 480 Y/277V 3PH,4W | NEUTRAL: 100%
SERVICE RATED: NO | LOCATION: ELEC A174
ISOLATED GND BUS: NO | MOUNTING: SURFACE
SHORT CIR. CURRENT RATING 18000 AMPS | TVSS: YES

DIRECTORY	WATTS OF LOAD			FUSE	POLES		FUSE	WATTS OF LOAD			DIRECTORY
	L1	L2	L3	AMPS			AMPS	L1	L2	L3	
LTG - MAIN COMMONS A120	3811			20	1	2	20	2024			LTG - LIBRARY A122A
LTG - STAIR A		398		20	3	4	20		432		LTG - EXTERIOR BUILDING A3,F2,F1
LTG - CIRCULATION F119			1326	20	5	6	20			2163	LTG - CIRCULATION F111
LTG - GYM F122	1848			20	7	8	20	3680			LTG - GYM F102
SPARE				20	9	10	20				SPARE
SPARE				20	11	12	20				SPARE
SPARE				20	13	14	20				SPARE
SPARE				20	15	16	20				SPARE
SPARE				20	17	18	20				SPARE
SUBTOTAL	5659	398	1326					5704	432	2163	SUBTOTAL

NOTES:

TOTAL WATTS L1: 11363
TOTAL WATTS L2: 830
TOTAL WATTS L3: 3489
TOTAL WATTS: 15682
TOTAL AMPS @ 100%: 19 AMPS
TOTAL AMPS @ 125%: 24 AMPS
TOTAL PANEL RECPT LOAD = 0 WATTS

FUSED PANELBOARD: P4LS1B1

BUS SIZE: 60 AMPS | MAIN: MLO | SURGE SUPPRESSION
VOLTAGE: 480 Y/277V 3PH,4W | NEUTRAL: 100%
SERVICE RATED: NO | LOCATION: ELEC A193
ISOLATED GND BUS: NO | MOUNTING: SURFACE
SHORT CIR. CURRENT RATING 18000 AMPS | TVSS: YES

DIRECTORY	WATTS OF LOAD			FUSE	POLES		FUSE	WATTS OF LOAD			DIRECTORY
	L1	L2	L3	AMPS			AMPS	L1	L2	L3	
LTG - EXTERIOR BUILDING B	486			20	1	2	20	3101			LTG - VIDEO PROD LAB B101
LTG - STAIR B & BASEMENT		1855		20	3	4	20		1433		LTG - ART & COMM 1ST LEVEL B120
LTG - EXTERIOR BUILDING A1,F1			246	20	5	6	20				SPARE
SPARE				20	7	8	20				SPARE
SPARE				20	9	10	20				SPARE
SPARE				20	11	12	20				SPARE
SPARE				20	13	14	20				SPARE
SPARE				20	15	16	20				SPARE
SPARE				20	17	18	20				SPARE
SUBTOTAL	486	1855	246					3101	1433	0	SUBTOTAL

NOTES:

TOTAL WATTS L1: 3587
TOTAL WATTS L2: 3288
TOTAL WATTS L3: 246
TOTAL WATTS: 7121
TOTAL AMPS @ 100%: 9 AMPS
TOTAL AMPS @ 125%: 11 AMPS
TOTAL PANEL RECPT LOAD = 0 WATTS

FUSED PANELBOARD: P4LS1C1

BUS SIZE: 60 AMPS | MAIN: MLO | SURGE SUPPRESSION
VOLTAGE: 480 Y/277V 3PH,4W | NEUTRAL: 100%
SERVICE RATED: NO | LOCATION: ELEC C114B
ISOLATED GND BUS: NO | MOUNTING: SURFACE
SHORT CIR. CURRENT RATING 18000 AMPS | TVSS: YES

DIRECTORY	WATTS OF LOAD			FUSE	POLES		FUSE	WATTS OF LOAD			DIRECTORY
	L1	L2	L3	AMPS			AMPS	L1	L2	L3	
LTG - INCUBATOR C101	1944			20	1	2	20	919			LTG - DINING A151
LTG - BLDG TRADES C127		2059		20	3	4	20		830		LTG - EXTERIOR BUILDING C
LTG - ELEC C114B			2590	20	5	6	20			370	LTG - STAIR C
LTG - WELDING C138	2323			20	7	8	20	1600			LTG - ST LIBRARY C120A
SPARE				20	9	10	20				SPARE
SPARE				20	11	12	20				SPARE
SPARE				20	13	14	20				SPARE
SPARE				20	15	16	20				SPARE
SPARE				20	17	18	20				SPARE
SUBTOTAL	4267	2059	2590					2519	830	370	SUBTOTAL

NOTES:

TOTAL WATTS L1: 6786
TOTAL WATTS L2: 2889
TOTAL WATTS L3: 2960
TOTAL WATTS: 12635
TOTAL AMPS @ 100%: 15 AMPS
TOTAL AMPS @ 125%: 19 AMPS
TOTAL PANEL RECPT LOAD = 0 WATTS

FUSED PANELBOARD: P4LS1D1

BUS SIZE: 60 AMPS | MAIN: MLO | SURGE SUPPRESSION
VOLTAGE: 480 Y/277V 3PH,4W | NEUTRAL: 100%
SERVICE RATED: NO | LOCATION: ELEC D148
ISOLATED GND BUS: NO | MOUNTING: SURFACE
SHORT CIR. CURRENT RATING 18000 AMPS | TVSS: YES

DIRECTORY	WATTS OF LOAD			FUSE	POLES		FUSE	WATTS OF LOAD			DIRECTORY
	L1	L2	L3	AMPS			AMPS	L1	L2	L3	
LTG - ELEC D146	2290			20	1	2	20	342			LTG - EXTERIOR BUILDING D
LTG - VESTIBULE D140A		809		20	3	4	20		185		LTG - STAIR G
LTG - DINING A131			759	20	5	6	20			370	LTG - STAIR D
SPARE				20	7	8	20	2400			LTG - DINING D151
SPARE				20	9	10	20				SPARE
SPARE				20	11	12	20				SPARE
SPARE				20	13	14	20				SPARE
SPARE				20	15	16	20				SPARE
SPARE				20	17	18	20				SPARE
SUBTOTAL	2290	809	759					2742	185	370	SUBTOTAL

NOTES:

TOTAL WATTS L1: 5032
TOTAL WATTS L2: 994
TOTAL WATTS L3: 1129
TOTAL WATTS: 7155
TOTAL AMPS @ 100%: 9 AMPS
TOTAL AMPS @ 125%: 11 AMPS
TOTAL PANEL RECPT LOAD = 0 WATTS

FUSED PANELBOARD: P4LS1E1

BUS SIZE: 60 AMPS | MAIN: MLO | SURGE SUPPRESSION
VOLTAGE: 480 Y/277V 3PH,4W | NEUTRAL: 100%
SERVICE RATED: NO | LOCATION: ELEC E127B
ISOLATED GND BUS: NO | MOUNTING: SURFACE
SHORT CIR. CURRENT RATING 18000 AMPS | TVSS: YES

DIRECTORY	WATTS OF LOAD			FUSE	POLES		FUSE	WATTS OF LOAD			DIRECTORY
	L1	L2	L3	AMPS			AMPS	L1	L2	L3	
LTG - ELECTRIC RM E127B	3228			20	1	2	20	159			LTG - STAIR F
LTG - STAIR E		370		20	3	4	20		636		LTG - HUM SERV 1ST LEVEL E120
LTG - EXTERIOR BUILDING E			167	20	5	6	20				SPARE
SPARE				20	7	8	20				SPARE
SPARE				20	9	10	20				SPARE
SPARE				20	11	12	20				SPARE
SPARE				20	13	14	20				SPARE
SPARE				20	15	16	20				SPARE
SPARE				20	17	18	20				SPARE
SUBTOTAL	3228	370	167					159	636	0	SUBTOTAL

NOTES:

TOTAL WATTS L1: 3387
TOTAL WATTS L2: 1006
TOTAL WATTS L3: 167
TOTAL WATTS: 4560
TOTAL AMPS @ 100%: 5 AMPS
TOTAL AMPS @ 125%: 7 AMPS
TOTAL PANEL RECPT LOAD = 0 WATTS

FUSED PANELBOARD: P4LS2B1

BUS SIZE: 60 AMPS | MAIN: MLO | SURGE SUPPRESSION
VOLTAGE: 480 Y/277V 3PH,4W | NEUTRAL: 100%
SERVICE RATED: NO | LOCATION: ELEC B228A
ISOLATED GND BUS: NO | MOUNTING: SURFACE
SHORT CIR. CURRENT RATING 18000 AMPS | TVSS: YES

DIRECTORY	WATTS OF LOAD			FUSE	POLES		FUSE	WATTS OF LOAD			DIRECTORY
	L1	L2	L3	AMPS			AMPS	L1	L2	L3	
LTG - CLASSROOM B243	1401			20	1	2	20	1479			LTG - ELEC B228A
LTG - COMMONS A220, A270		2074		20	3	4	20		288		LTG - STAIR H
LTG - TOILET A262			911	20	5	6	20				SPARE
SPARE				20	7	8	20				SPARE
SPARE				20	9	10	20				SPARE
SPARE				20	11	12	20				SPARE
SPARE				20	13	14	20				SPARE
SPARE				20	15	16	20				SPARE
SPARE				20	17	18	20				SPARE
SUBTOTAL	1401	2074	911					1479	288	0	SUBTOTAL

NOTES:

TOTAL WATTS L1: 2880
TOTAL WATTS L2: 2362
TOTAL WATTS L3: 911
TOTAL WATTS: 6153
TOTAL AMPS @ 100%: 7 AMPS
TOTAL AMPS @ 125%: 9 AMPS
TOTAL PANEL RECPT LOAD = 0 WATTS

FUSED PANELBOARD: P4LS2C1

BUS SIZE: 60 AMPS | MAIN: MLO | SURGE SUPPRESSION
VOLTAGE: 480 Y/277V 3PH,4W | NEUTRAL: 100%
SERVICE RATED: NO | LOCATION: ELEC C223A
ISOLATED GND BUS: NO | MOUNTING: SURFACE
SHORT CIR. CURRENT RATING 18000 AMPS | TVSS: YES

DIRECTORY	WATTS OF LOAD			FUSE	POLES		FUSE	WATTS OF LOAD			DIRECTORY
	L1	L2	L3	AMPS			AMPS	L1	L2	L3	
LTG - ELEC C223A	1006			20	1	2	20	1185			LTG - CAD LAB C202
SPARE				20	3	4	20				SPARE
SPARE				20	5	6	20				SPARE
SPARE				20	7	8	20				SPARE
SPARE				20	9	10	20				SPARE
SPARE				20	11	12	20				SPARE
SPARE				20	13	14	20				SPARE
SPARE				20	15	16	20				SPARE
SPARE				20	17	18	20				SPARE
SUBTOTAL	1006	0	0					1185	0	0	SUBTOTAL

NOTES:

TOTAL WATTS L1: 2191
TOTAL WATTS L2: 0
TOTAL WATTS L3: 0
TOTAL WATTS: 2191
TOTAL AMPS @ 100%: 3 AMPS
TOTAL AMPS @ 125%: 3 AMPS
TOTAL PANEL RECPT LOAD = 0 WATTS

FUSED PANELBOARD: P4LS2D1

BUS SIZE: 60 AMPS | MAIN: MLO | SURGE SUPPRESSION
VOLTAGE: 480 Y/277V 3PH,4W | NEUTRAL: 100%
SERVICE RATED: NO | LOCATION: ELEC D247
ISOLATED GND BUS: NO | MOUNTING: SURFACE
SHORT CIR. CURRENT RATING 18000 AMPS | TVSS: YES

DIRECTORY	WATTS OF LOAD			FUSE	POLES		FUSE	WATTS OF LOAD			DIRECTORY
	L1	L2	L3	AMPS			AMPS	L1	L2	L3	
LGT - BIO-SCIENCE D233	1536			20	1	2	20	1112			LTG - ELECTRIC ROOM D247
SPARE				20	3	4	20		886		LTG - CAREER DESK A214
SPARE				20	5	6	20				SPARE
SPARE				20	7	8	20				SPARE
SPARE				20	9	10	20				SPARE
SPARE				20	11	12	20				SPARE
SPARE				20	13	14	20				SPARE
SPARE				20	15	16	20				SPARE
SPARE				20	17	18	20				SPARE
SUBTOTAL	1536	0	0					1112	886	0	SUBTOTAL

NOTES:

TOTAL WATTS L1: 2648
TOTAL WATTS L2: 886
TOTAL WATTS L3: 0
TOTAL WATTS: 3534
TOTAL AMPS @ 100%: 4 AMPS
TOTAL AMPS @ 125%: 5 AMPS
TOTAL PANEL RECPT LOAD = 0 WATTS

FUSED PANELBOARD: P4LS2E1

BUS SIZE: 60 AMPS | MAIN: MLO | SURGE SUPPRESSION
VOLTAGE: 480 Y/277V 3PH,4W | NEUTRAL: 100%
SERVICE RATED: NO | LOCATION: ELEC E227B
ISOLATED GND BUS: NO | MOUNTING: SURFACE
SHORT CIR. CURRENT RATING 18000 AMPS | TVSS: YES

DIRECTORY	WATTS OF LOAD			FUSE	POLES		FUSE	WATTS OF LOAD			DIRECTORY
	L1	L2	L3	AMPS			AMPS	L1	L2	L3	
LTG - ELEC E227B	3254			20	1	2	20				SPARE
SPARE				20	3	4	20				SPARE
SPARE				20	5	6	20				SPARE
SPARE				20	7	8	20				SPARE
SPARE				20	9	10	20				SPARE
SPARE				20	11	12	20				SPARE
SPARE				20	13	14	20				SPARE
SPARE				20	15	16	20				SPARE
SPARE				20	17	18	20				SPARE
SUBTOTAL	3254	0	0					0	0	0	SUBTOTAL

NOTES:

TOTAL WATTS L1: 3254
TOTAL WATTS L2: 0
TOTAL WATTS L3: 0
TOTAL WATTS: 3254
TOTAL AMPS @ 100%: 4 AMPS
TOTAL AMPS @ 125%: 5 AMPS
TOTAL PANEL RECPT LOAD = 0 WATTS

FUSED PANELBOARD: P2LS1B1

BUS SIZE: 125 AMPS | MAIN: MLO | SURGE SUPPRESSION
VOLTAGE: 208 Y/120V 3PH,4W | NEUTRAL: 100%
SERVICE RATED: NO | LOCATION: ELEC A193
ISOLATED GND BUS: NO | MOUNTING: SURFACE
SHORT CIR. CURRENT RATING 22000 AMPS | TVSS: YES

DIRECTORY	WATTS OF LOAD			FUSE	POLES		FUSE	WATTS OF LOAD			DIRECTORY
	L1	L2	L3	AMPS			AMPS	L1	L2	L3	
CORRIDOR FIRE DOOR - E120	1500			20	1	2	20	1500			CORRIDOR FIRE DOOR - A170
CORRIDOR FIRE DOOR - A120		1500		20	3	4	20		1500		CORRIDOR FIRE DOOR - B120
CORRIDOR FIRE DOOR - A220			1500	20	5	6	20			1500	CORRIDOR FIRE DOOR - E220
CORRIDOR FIRE DOOR - A270	1500			20	7	8	20	1500			CORRIDOR FIRE DOOR - B220
LTG - STUDIO B105		1500		20	9	10	20		500		PACP - CIRC A170B
DOOR OPENER SYSTEM - A151			1500	20	11	12	20			500	PACP - FIRE CLOSET B105B
DOOR OPENER SYSTEM - A151	1500			20	13	14	20	200			LCP3 - ELEC A193
DOOR OPENER SYSTEM - B110		1500		20	15	16	20		1500		LTG - STUDIO B105
FRONT DOOR OPENER - A100			1500	20	17	18	20			200	JUNCTION - MAG. HOLD - A120
FRONT DOOR OPENER - A100	1500			20	19	20	20	200			JUNCTION - MAG. HOLD - E120
FRONT DOOR OPENER - A100		1500		20	21	22	20		200		JUNCTION - MAG. HOLD - F119
FRONT DOOR OPENER - A100			1500	20	23	24	20				SPARE
FRONT DOOR OPENER - A100	1500			20	25	26	20				SPARE
FRONT DOOR OPENER - A100		1500		20	27	28	20				SPARE
SPARE				20	29	30	20				SPARE
SPARE				20	31	32	20				SPARE
SPARE				20	33	34	20				SPARE
SPARE				20	35	36	20				SPARE
SPARE				20	37	38	20				SPARE
SPARE				20	39	40	20				SPARE
SPARE				20	41	42	20				SPARE
SUBTOTAL	7500	7500	6000					3400	3700	2200	SUBTOTAL

NOTES:

TOTAL WATTS L1: 10900
TOTAL WATTS L2: 11200
TOTAL WATTS L3: 8200
TOTAL WATTS: 30300
TOTAL AMPS @ 100%: 84 AMPS
TOTAL AMPS @ 125%: 105 AMPS
TOTAL PANEL RECPT LOAD = 0 WATTS

PANELBOARD:P2N1C10A

BUS SIZE: 150 AMPS | MAIN: MLO
VOLTAGE: 208 Y/120V 3PH,4W | NEUTRAL: 100%
SERVICE RATED: NO | LOCATION: RESIDENTIAL WIRING C113
ISOLATED GND BUS: NO | MOUNTING: SURFACE
SHORT CIR. CURRENT RATING 22000 AMPS | TVSS: NO

DIRECTORY	WATTS OF LOAD			CKT BKR	POLES		CKT BKR	WATTS OF LOAD			DIRECTORY
	L1	L2	L3	AMPS			AMPS	L1	L2	L3	
RES. WIRING BOOTH #1 -	600			20	1	2	20	600			RES. WIRING BOOTH #8 -
DISCONNECT SWITCH - C113		600			3	4			600		DISCONNECT SWITCH - C113
RES. WIRING BOOTH #2 -			600	20	5	6	20			600	RES. WIRING BOOTH #9 -
DISCONNECT SWITCH - C113	600				7	8		600			DISCONNECT SWITCH - C113
RES. WIRING BOOTH #3 -		600		20	9	10	20		600		RES. WIRING BOOTH #10 -
DISCONNECT SWITCH - C113			600		11	12				600	DISCONNECT SWITCH - C113
RES. WIRING BOOTH #4 -	600			20	13	14	20	600			RES. WIRING BOOTH #11 -
DISCONNECT SWITCH - C113		600			15	16			600		DISCONNECT SWITCH - C113
RES. WIRING BOOTH #5 -			600	20	17	18	20			600	RES. WIRING BOOTH #12 -
DISCONNECT SWITCH - C113	600				19	20		600			DISCONNECT SWITCH - C113
RES. WIRING BOOTH #6 -		600		20	21	22	20		600		RES. WIRING BOOTH #13 -
DISCONNECT SWITCH - C113			600		23	24				600	DISCONNECT SWITCH - C113
RES. WIRING BOOTH #7 -	600			20	25	26	20	600			RES. WIRING BOOTH #14 -
DISCONNECT SWITCH - C113		600			27	28			600		DISCONNECT SWITCH - C113
SPARE				30	29	30	30				SPARE
					31	32					
SPARE				20	33	34	20				SPARE
					35	36					
SPARE				20	37	38	20				SPARE
SPARE				20	39	40	20				SPARE
SPARE				20	41	42	20				SPARE
SUBTOTAL	3000	3000	2400					3000	3000	2400	SUBTOTAL

NOTES:

TOTAL WATTS L1: 6000
TOTAL WATTS L2: 6000
TOTAL WATTS L3: 4800
TOTAL WATTS: 16800
TOTAL AMPS @ 100%: 47 AMPS
TOTAL AMPS @ 125%: 58 AMPS
TOTAL PANEL RECPT LOAD = 0 WATTS

C.B. TYPE
S=SHUNT TRIP | G=GFCI
L=LOCK ON C.B. | H=HACR C.B.
AF=ARC FAULT

PANELBOARD: P2N2E3

BUS SIZE: 125 AMPS | MAIN: 125 AMP MCB | (SHUNT-TRIP)
VOLTAGE: 208 Y/120V 3PH,4W | NEUTRAL: 100%
SERVICE RATED: NO | LOCATION: CIRC. E214A
ISOLATED GND BUS: NO | MOUNTING: RECESSED
SHORT CIR. CURRENT RATING 22000 AMPS | TVSS: NO

DIRECTORY	WATTS OF LOAD			CKT BKR	POLES		CKT BKR	WATTS OF LOAD			DIRECTORY
	L1	L2	L3	AMPS			AMPS	L1	L2	L3	
IWB RECEP - LAB-BIO E222	300			20	1	2	20	360			CNTR QUAD REC - LAB-BIO E222
RECEP DESK - LAB-BIO E222		540		20	3	4	20		360		CNTR QUAD REC - LAB-BIO E222
QUAD AV RECEP - LAB-BIO E222			360	20	5	6	20			360	CNTR QUAD REC - LAB-BIO E222
COUNTER RECEP - LAB-BIO E222	360			20	7	8	20	360			CNTR QUAD REC - LAB-BIO E222
COUNTER RECEP - LAB-BIO E222		360		20	9	10	20		360		CNTR QUAD REC - LAB-BIO E222
COUNTER RECEP - LAB-BIO E222			360	20	11	12	20			360	CNTR QUAD REC - LAB-BIO E222
COUNTER RECEP - LAB-BIO E222	360			20	13	14	20	540			RECEP - CIRC E214A
COUNTER RECEP - LAB-BIO E222		360		20	15	16	20G		1500		REFRIGERATOR - PREP E214
COUNTER RECEP - LAB-BIO E222			540	20	17	18	20			540	RECEP - PREP ROOM E214
IWB RECEP - LAB-BIO E212	300			20	19	20	20	360			RECEP - PREP ROOM E214
RECEP - LAB-BIO E212		360		20	21	22	20		360		RECEP - PREP ROOM E214
CNTR QUAD REC - LAB-BIO E212			360	20	23	24	20			360	RECEP - PREP ROOM E214
QUAD AV RECEP - LAB-BIO E212	360			20	25	26	20	360			COUNTER RECEP - LAB-BIO E212
CNTR QUAD REC - LAB-BIO E212		360		20	27	28	20		360		COUNTER RECEP - LAB-BIO E212
CNTR QUAD REC - LAB-BIO E212			360	20	29	30	20			360	COUNTER RECEP - LAB-BIO E212
CNTR QUAD REC - LAB-BIO E212	360			20	31	32	20	360			COUNTER RECEP - LAB-BIO E212
CNTR QUAD REC - LAB-BIO E212		360		20	33	34	20		100		SHUNT-TRIP POWER
CNTR QUAD REC - LAB-BIO E212			360	20	35	36	20				SPARE
SPARE				20	37	38	20				SPARE
SPARE				20	39	40	20				SPARE
SPARE				20	41	42	20				SPARE
SUBTOTAL	2040	2340	2340					2340	3040	1980	SUBTOTAL

NOTES:

TOTAL WATTS L1: 4380
TOTAL WATTS L2: 5380
TOTAL WATTS L3: 4320
TOTAL WATTS: 14080
TOTAL AMPS @ 100%: 39 AMPS
TOTAL AMPS @ 125%: 49 AMPS
TOTAL PANEL RECPT LOAD = 11160 WATTS

C.B. TYPE
S=SHUNT TRIP | G=GFCI
L=LOCK ON C.B. | H=HACR C.B.
AF=ARC FAULT

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Sanford School Department and State of Maine Department of Education

SANFORD HIGH SCHOOL and TECHNICAL CENTER

SANFORD, ME 04073

NO.	DESCRIPTION	DATE

FOR ADDITIONAL INFORMATION, REFER TO PROJECT MANUAL.

CONTENT:
PANELBOARD SCHEDULES

DRAWN BY: C. NEWELL
PROJECT NO: 12-067-00
DATE: 02/11/2016
REVISED:
SCALE: NO SCALE

E0.17

Project Phase
BID DOCUMENTS

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2/4/2016 2:37:06 PM

DRAWING NOTES

1 THE FOLLOWING NOTES ONLY APPLY TO THIS DRAWING.

2 REFER TO GENERAL NOTES, ELECTRICAL TRADE NOTES, LEGEND AND ABBREVIATIONS ON DRAWING E0.01.

PANELBOARD: P2N2B3

BUS SIZE: 125 AMPS — MAIN: MLO
VOLTAGE: 208 Y/120V 3PH,4W — NEUTRAL: 100%
SERVICE RATED: NO — LOCATION: ELEC B228A
ISOLATED GND BUS: NO — MOUNTING: SURFACE
SHORT CIR. CURRENT RATING 22000 AMPS — TVSS: NO

DIRECTORY	WATTS OF LOAD L1	L2	L3	CKT BKR AMPS	POLES	POLES	CKT BKR AMPS	WATTS OF LOAD L1	L2	L3	DIRECTORY
GFCI RECEPTACLES - ROOF - B	720			20	1	2	20	300			IWB RECEP - CLASSROOM B246
GFCI RECEPTACLES - ROOF - A2		900		20	3	4	20		720		RECEP - CLASSROOM B246
IWB RECEP - CLASSROOM B245			300	20	5	6	20			720	RECEP - CLASSROOM B246
RECEP - CLASSROOM B245	720			20	7	8	20	300			IWB RECEP - CLASSROOM B244
RECEP - CLASSROOM B245		720		20	9	10	20		720		RECEP - CLASSROOM B244
IWB RECEP - CLASSROOM B243			300	20	11	12	20			720	RECEP - CLASSROOM B244
RECEP - CLASSROOM B243	720			20	13	14	20	300			IWB RECEP - CLASSROOM B238
RECEP - CLASSROOM B243		720		20	15	16	20		720		RECEP - CLASSROOM B238
IWB RECEP - CLASSROOM B237			300	20	17	18	20			720	RECEP - CLASSROOM B238
RECEP - CLASSROOM B237	720			20	19	20	20	720			RECEP - TOILET B226
RECEP - CLASSROOM B237		720		20	21	22	20		720		RECEP - OFFICE 241
IWB RECEP - CLASSROOM B235			300	20	23	24	20			360	QUAD RECEP - OFFICE 241
RECEP - CLASSROOM B235	720			20	25	26	20	360			QUAD RECEP - OFFICE 241
RECEP - CLASSROOM B235		540		20	27	28	20		720		RECEP - OFFICE 231
RECEP - CLASSROOM B235			540	20	29	30	20			360	QUAD RECEP - OFFICE 231
IWB RECEP - GROSS MTR SK B212	300			20	31	32	20	360			QUAD RECEP - OFFICE 231
RECEP - GROSS MTR SKILLS B212		720		20	33	34	20		900		RECEP - PATHWAY STORAGE B233
RECEP - GROSS MTR SKILLS B212			720	20	35	36	20			300	IWB RECEP - DEVEL INSTR B214
CNTR REC - GROSS MTR SK B212	360			20	37	38	20	540			RECEP - DEVEL INSTRUCT B214
BOX B1/IWB - SPEECH THER B216		660		20	39	40	20		720		RECEP - DEVEL INSTRUCT B214
RECEP - SPEECH THERAPY B216			540	20	41	42	20			360	QUAD RECEP - DEVEL INSTR B214
RECEP - SPEECH THERAPY B216	540			20	43	44	20	360			QUAD RECEP - DEVEL INSTR B214
RECEP - QUIET ROOM B210A		360		20	45	46	20		360		QUAD RECEP - DEVEL INSTR B214
BOX B1/IWB - KITCHEN B215B			660	20	47	48	20			720	RECEP - AUTISM COMMON B210
RECEP - KITCHENETTE B215B	540			20	49	50	20	360			QUAD RECEP - AUTISM COM B210
RECEP - KITCHENETTE B215B		540		20	51	52	20		1500		CNTR RECEP - AUTISM COM B210
RECEP - AUTISM COM B210			540	20	53	54	20G			1500	REFRIG - AUTISM COMMON B210
SUBTOTAL	5340	5880	4200					3600	7080	5760	SUBTOTAL

NOTES:

TOTAL WATTS L1: 8940
TOTAL WATTS L2: 12960
TOTAL WATTS L3: 9960
TOTAL WATTS: 31860
C.B. TYPE — TOTAL AMPS @ 100%: 89 AMPS
S=SHUNT TRIP G=GFCI — TOTAL AMPS @ 125%: 111 AMPS
L=LOCK ON C.B. H=HACR C.B.
AF=ARC FAULT — TOTAL PANEL RECPT LOAD = 24840 WATTS

PANELBOARD: P2N2B4

BUS SIZE: 125 AMPS — MAIN: 125 AMP MCB (SHUNT-TRIP)
VOLTAGE: 208 Y/120V 3PH,4W — NEUTRAL: 100%
SERVICE RATED: NO — LOCATION: SCIENCE LAB B249
ISOLATED GND BUS: NO — MOUNTING: RECESSED
SHORT CIR. CURRENT RATING 22000 AMPS — TVSS: NO

DIRECTORY	WATTS OF LOAD L1	L2	L3	CKT BKR AMPS	POLES	POLES	CKT BKR AMPS	WATTS OF LOAD L1	L2	L3	DIRECTORY
IWB RECEP - LAB B249	300			20	1	2	20	360			RECEP - LAB B249
RECEP - DESK LAB B249		540		20	3	4	20		540		RECEP - LAB B249
RECEP - AV QUAD B249			360	20	5	6	20			360	COUNTER RECEP - LAB B249
REFRIGERATOR - PREP B247	1500			20G	7	8	20	360			COUNTER RECEP - LAB B249
RECEP - PREP OFFICE B247		360		20	9	10	20		360		CNTR QUAD RECEP - LAB B249
RECEP - PREP OFFICE B247			360	20	11	12	20			360	CNTR QUAD RECEP - LAB B249
RECEP - PREP OFFICE B247	360			20	13	14	20	360			CNTR QUAD RECEP - LAB B249
RECEP QUAD - PREP OFFICE B247		360		20	15	16	20		360		CNTR QUAD RECEP - LAB B249
RECEP QUAD - PREP OFFICE B247			360	20	17	18	20			360	CNTR QUAD RECEP - LAB B249
RECEP QUAD - PREP OFFICE B247	360			20	19	20	20	360			CNTR QUAD RECEP - LAB B249
SHUNT-TRIP POWER		100		20	21	22	20				SPARE
SPARE				20	23	24	20				SPARE
SPARE				20	25	26	20				SPARE
SPARE				20	27	28	20				SPARE
SPARE				20	29	30	20				SPARE
SPARE				20	31	32	20				SPARE
SPARE				20	33	34	20				SPARE
SPARE				20	35	36	20				SPARE
SPARE				15	37	38	20G				SPARE
SPARE				15	39	40	20G				SPARE
SPARE				15	41	42	20G				SPARE
SUBTOTAL	2520	1360	1080					1440	1260	1080	SUBTOTAL

NOTES:

TOTAL WATTS L1: 3960
TOTAL WATTS L2: 2620
TOTAL WATTS L3: 2160
TOTAL WATTS: 8740
C.B. TYPE — TOTAL AMPS @ 100%: 24 AMPS
S=SHUNT TRIP G=GFCI — TOTAL AMPS @ 125%: 30 AMPS
L=LOCK ON C.B. H=HACR C.B.
AF=ARC FAULT — TOTAL PANEL RECPT LOAD = 6480 WATTS

PANELBOARD: P2N2D3

BUS SIZE: 125 AMPS — MAIN: MLO
VOLTAGE: 208 Y/120V 3PH,4W — NEUTRAL: 100%
SERVICE RATED: NO — LOCATION: ELEC D247
ISOLATED GND BUS: NO — MOUNTING: SURFACE
SHORT CIR. CURRENT RATING 22000 AMPS — TVSS: NO

DIRECTORY	WATTS OF LOAD L1	L2	L3	CKT BKR AMPS	POLES	POLES	CKT BKR AMPS	WATTS OF LOAD L1	L2	L3	DIRECTORY
RECEP - ELECT ROOM D247	1260			20	1	2	20	300			IWB RECEP - CLASSROOM D230
IWB RECEP - CLASSROOM D244		300		20	3	4	20		720		RECEP - CLASSROOM D230
RECEP - CLASSROOM D244			720	20	5	6	20			900	RECEP - CLASSROOM D230
RECEP - CLASSROOM D244	720			20	7	8	20	300			IWB RECEP - CLASSROOM D228
IWB RECEP - CLASSROOM D242		300		20	9	10	20		720		RECEP - CLASSROOM D228
RECEP - CLASSROOM D242			720	20	11	12	20			900	RECEP - CLASSROOM D228
RECEP - CLASSROOM D242	720			20	13	14	20	300			IWB RECEP - CLASSROOM D222
IWB RECEP - CLASSROOM D238		300		20	15	16	20		720		RECEP - CLASSROOM D222
RECEP - CLASSROOM D238			720	20	17	18	20			720	RECEP - CLASSROOM D222
RECEP - CLASSROOM D238	900			20	19	20	20	360			RECEP - OFFICE D240
RECEP - CORRIDOR D220		540		20	21	22	20		360		QUAD RECEP - OFFICE D240
RECEP - OFFICE D211			540	20	23	24	20			360	QUAD RECEP - OFFICE D240
RECEP - OFFICE D211	720			20	25	26	20	360			QUAD RECEP - OFFICE D240
RECEP - GUID CORRIDOR A211		900		20	27	28	20		360		QUAD RECEP - OFFICE D240
RECEP - WORK OFFICE A211G			720	20	29	30	20			540	RECEP - SHARED CONF A218
RECEP - WORK OFFICE A211E	720			20	31	32	20	720			RECEP - SHARED CONF A218
RECEP - DIRECT OFFICE A211H		720		20	33	34	20		660		LCD/BOX B1 - SHARED CONF A218
RECEP - GUIDANCE OFFICE A211F			720	20	35	36	20			720	RECEP - GUID RECEPTION A210A
RECEP - GUIDANCE OFFICE A211D	720			20	37	38	20	720			RECEP - GUID RECEPTION A210A
RECEP - GUIDANCE OFFICE A211C		720		20	39	40	20		1500		COPIER - GUID RECEPTION A210A
RECEP - AT RISK 2 A211A			720	20	41	42	20			720	FLOOR BOX B1 - CAREER A214
RECEP - AT RISK 1 A211B	720			20	43	44	20	900			RECEP - SMALL MEETING A212
LCD - CAREER DESK A214		300		20	45	46	20		300		LCD - SMALL MEETING A212
SPARE				20	47	48	20				SPARE
SPARE				20	49	50	20				SPARE
SPARE				20	51	52	20				SPARE
SPARE				20	53	54	20				SPARE
SUBTOTAL	6480	4080	4860					3960	5340	4860	SUBTOTAL

NOTES:

TOTAL WATTS L1: 10440
TOTAL WATTS L2: 9420
TOTAL WATTS L3: 9720
TOTAL WATTS: 29580
C.B. TYPE — TOTAL AMPS @ 100%: 82 AMPS
S=SHUNT TRIP G=GFCI — TOTAL AMPS @ 125%: 103 AMPS
L=LOCK ON C.B. H=HACR C.B.
AF=ARC FAULT — TOTAL PANEL RECPT LOAD = 25680 WATTS

PANELBOARD: P2N2C3

BUS SIZE: 125 AMPS — MAIN: MLO
VOLTAGE: 208 Y/120V 3PH,4W — NEUTRAL: 100%
SERVICE RATED: NO — LOCATION: ELEC C223A
ISOLATED GND BUS: NO — MOUNTING: SURFACE
SHORT CIR. CURRENT RATING 22000 AMPS — TVSS: NO

DIRECTORY	WATTS OF LOAD L1	L2	L3	CKT BKR AMPS	POLES	POLES	CKT BKR AMPS	WATTS OF LOAD L1	L2	L3	DIRECTORY
	793				1	2					
EXHAUST FAN EF-202A		793		20	3	4	20				SPARE
			793		5	6					
					7	8					
SPARE				20	9	10	20				SPARE
					11	12					
SPARE				20	13	14	20				SPARE
					15	16					
UNITS AC3-1, 2 & 3			82	20	17	18	20			1500	PROJECTOR & SCREEN - DINING
	82				19	20	20	300			IWB RECEP - CAD LAB C202
RECEP - CAD LAB STORAGE C202B		720		20	21	22	20		540		RECEP - CAD LAB C202
PLOTTER RECEP - CAD LAB C202			1500	20	23	24	20			720	RECEP - CAD LAB C202
PLOTTER RECEP - CAD LAB C202	1500			20	25	26	20	180			GFCI RECEP - PRINT AREA C202A
PRINTER RECEP - PRINT C202A		1200		20	27	28	20		360		QUAD RECEP - CAD LAB C202
PRINTER RECEP - PRINT C202A			1200	20	29	30	20			360	QUAD RECEP - CAD LAB C202
3D PRINT RECEP - PRINT C202A	1500			20	31	32	20	360			QUAD RECEP - CAD LAB C202
3D PRINT RECEP - PRINT C202A		1500		20	33	34	20		360		QUAD RECEP - CAD LAB C202
3D PRINT RECEP - PRINT C202A			1500	20	35	36	20			360	QUAD RECEP - CAD LAB C202
3D PRINT RECEP - PRINT C202A	1500			20	37	38	20	360			DESK FLOOR BOX B2 - LAB C202
DESK FLOOR BOX B2 - LAB C202		360		20	39	40	20		360		DESK FLOOR BOX B2 - LAB C202
DESK FLOOR BOX B2 - LAB C202			360	20	41	42	20			360	DESK FLOOR BOX B2 - LAB C202
DESK FLOOR BOX B2 - LAB C202	360			20	43	44	20	360			DESK FLOOR BOX B2 - LAB C202
DESK FLOOR BOX B2 - LAB C202		360		20	45	46	20		360		DESK FLOOR BOX B2 - LAB C202
DESK FLOOR BOX B2 - LAB C202			360	20	47	48	20			360	DESK FLOOR BOX B2 - LAB C202
DESK FLOOR BOX B2 - LAB C202	360			20	49	50	20	360			DESK FLOOR BOX B2 - LAB C202
RECEP - DISPLAY CASE - C202		360		20	51	52	20		360		DESK FLOOR BOX B2 - LAB C202
SPARE				20	53	54	20				SPARE
SUBTOTAL	6095	5293	5795					1920	2340	3660	SUBTOTAL

NOTES:

TOTAL WATTS L1: 8015
TOTAL WATTS L2: 7633
TOTAL WATTS L3: 9455
TOTAL WATTS: 25103
C.B. TYPE — TOTAL AMPS @ 100%: 70 AMPS
S=SHUNT TRIP G=GFCI — TOTAL AMPS @ 125%: 87 AMPS
L=LOCK ON C.B. H=HACR C.B.
AF=ARC FAULT — TOTAL PANEL RECPT LOAD = 4320 WATTS

PANELBOARD: P2N1C7

BUS SIZE: 225 AMPS — MAIN: 225 AMP MCB ELECTRONIC TRIP (SHUNT-TRIP)
VOLTAGE: 208 Y/120V 3PH,4W — NEUTRAL: 100%
SERVICE RATED: NO — LOCATION: BUILDING TRADES C127
ISOLATED GND BUS: NO — MOUNTING: SURFACE
SHORT CIR. CURRENT RATING 22000 AMPS — TVSS: NO

DIRECTORY	WATTS OF LOAD L1	L2	L3	CKT BKR AMPS	POLES	POLES	CKT BKR AMPS	WATTS OF LOAD L1	L2	L3	DIRECTORY
	1440				1	2		1440			
TABLE SAW BUS DROP - C127		1440		20	3	4	20		1440		PLANER BUS DROP - C127
			1440		5	6				1440	
	1440				7	8		1440			
TABLE SAW BUS DROP - C127		1440		20	9	10	20		1440		PLANER BUS DROP - C127
			1440		11	12				1440	
	1440				13	14		1440			
JOINTER BUS DROP - C127		1440		20	15	16	20		1440		WOOD SHAPER BUS DROP - C127
			1440		17	18				1440	
	1440				19	20		1440			
JOINTER BUS DROP - C127		1440		20	21	22	20		1440		SANDER BUS DROP - C127
			1440		23	24				1440	
AIR COMPRESSOR PAC-3	3203			60	25	26	20	1200			DRYER RAD-3
		3203			27	28	20		1000		WOOD SHAPER BUS DROP C127
DROP CORDS C127			360	20G	29	30	20			1000	ROUTER C127
DROP CORDS C127	360			20G	31	32	20	1000			ROUTER C127
DROP CORDS C127		360		20G	33	34	20		1000		BAND SAW C127
DROP CORDS C127			360	20G	35	36	20			1000	BAND SAW C127
DROP CORDS C127	360			20G	37	38	20	1000			BAND SAW C127
SCROLL SAW C127		1000		20	39	40	20		1000		MORTISER C127
IWB RECEP - INSTRUCTION C127A			300	20	41	42	20			180	RECEP - BLDG TRADES C127
MITER SAW C127	1000			20	43	44	20	1000			GRINDER C127
MITER SAW C127		1000		20	45	46	25		1656		FILTER AFF-C127c
MITER SAW C127			1000	20	47	48	25			1656	FILTER AFF-C127D
SHUNT-TRIP POWER	100			20	49	50	25	1656			FILTER AFF-C127a
RECEP - INSTRUCTION C127A		720		20	51	52	25		1656		FILTER AFF-C127b
RECEP - INSTRUCTION C127A			720	20	53	54	20			720	RECEP - BLDG TRADES C127
RECEP - STORAGE C127B	1080			20	55	56	20	540			RECEP - BLDG TRADES C127
RECEP - OFFICE C125		720		20	57	58	20		540		RECEP - BLDG TRADES C127
LATHE C127			1000	20	59	60	20			1000	SPINDLE SANDER C127
DUST COLLECTION FIRE PANEL	300			20	61	62	20	864			OVERHEAD DOOR C127
HEAT TRACE - C127 - 2ND FLOOR		400		20	63	64	20				SPARE
SPARE				20	65	66	20				SPARE
SPARE				20	67	68	20				SPARE
SPARE				20	69	70	20				SPARE
SPARE				20	71	72	20				SPARE
SUBTOTAL	12163	13163	9500					13020	12612	11316	SUBTOTAL

NOTES:

TOTAL WATTS L1: 25183
TOTAL WATTS L2: 25775
TOTAL WATTS L3: 20816
TOTAL WATTS: 71774
C.B. TYPE — TOTAL AMPS @ 100%: 199 AMPS
S=SHUNT TRIP G=GFCI — TOTAL AMPS @ 125%: 249 AMPS
L=LOCK ON C.B. H=HACR C.B.
AF=ARC FAULT — TOTAL PANEL RECPT LOAD = 7020 WATTS

PANELBOARD: P2NOB1

BUS SIZE: 100 AMPS — MAIN: 60 AMP MCB
VOLTAGE: 208 Y/120V 3PH,4W — NEUTRAL: 100%
SERVICE RATED: YES — LOCATION: FIELD OUT BUILDING
ISOLATED GND BUS: NO — MOUNTING: SURFACE
SHORT CIR. CURRENT RATING 22000 AMPS — TVSS: NO

DIRECTORY	WATTS OF LOAD L1	L2	L3	CKT BKR AMPS	POLES	POLES	CKT BKR AMPS	WATTS OF LOAD L1	L2	L3	DIRECTORY
BUILDING LIGHTING CIRCUIT	260			20	1	2	20				SPARE
INDOOR GFCI RECEPTACLES		360		20	3	4	20				SPARE
OUTDOOR GFCI RECEPTACLES			360	20	5	6	20				SPARE
SPARE				20	7	8	20				SPARE
SPARE				20	9	10	20				SPACE
SPARE				20	11	12	20				SPACE
SPACE				20	13	14	20				SPACE
SPACE				20	15	16	20				SPACE
SPACE				20	17	18	20				SPACE
SUBTOTAL	260	360	360					0	0	0	SUBTOTAL

NOTES:

TOTAL WATTS L1: 260
TOTAL WATTS L2: 360
TOTAL WATTS L3: 360
TOTAL WATTS: 980
C.B. TYPE — TOTAL AMPS @ 100%: 3 AMPS
S=SHUNT TRIP G=GFCI — TOTAL AMPS @ 125%: 3 AMPS
L=LOCK ON C.B. H=HACR C.B.
AF=ARC FAULT — TOTAL PANEL RECPT LOAD = 720 WATTS

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RFS Project #: 7300.001

STATE OF MAINE
CHRISTOPHER M. SHUMWAY
No. 10820
LICENSED PROFESSIONAL ENGINEER

Sanford School Department and State of Maine Department of Education

SANFORD HIGH SCHOOL and TECHNICAL CENTER

SANFORD, ME 04073

NO.	DESCRIPTION	DATE

FOR ADDITIONAL INFORMATION, REFER TO PROJECT MANUAL.

CONTENT:
PANELBOARD SCHEDULES

DRAWN BY: C. NEWELL
PROJECT NO: 12-067-00
DATE: 02/11/2016
REVISED:
SCALE: NO SCALE

E0.18

Project Phase
BID DOCUMENTS

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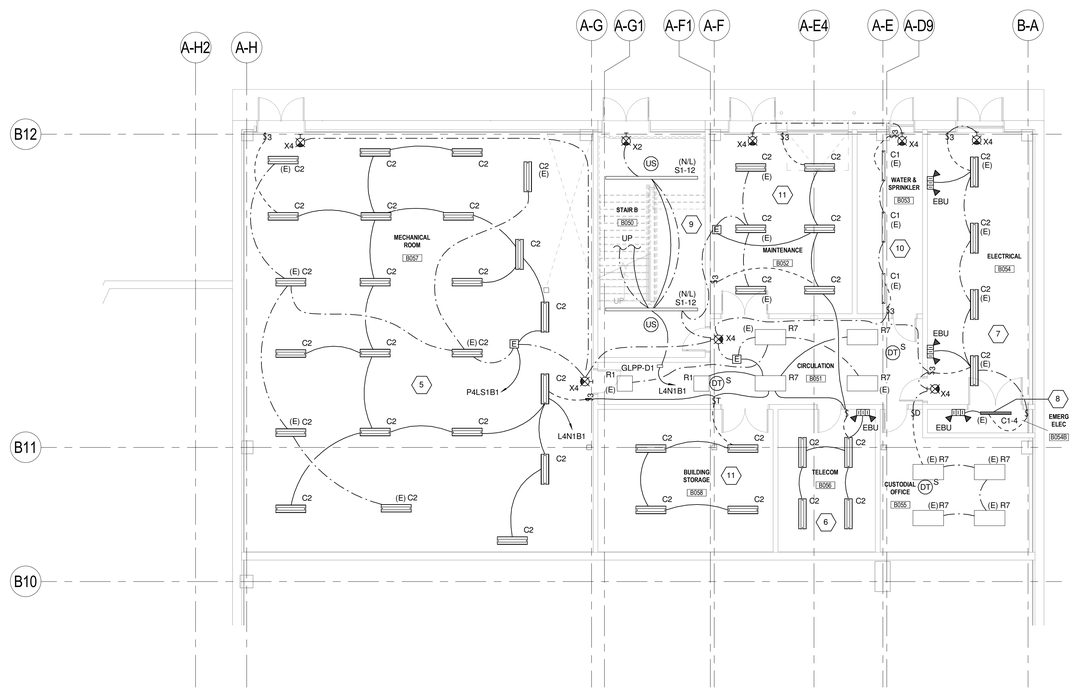
2/8/2016 4:35:26 PM

DRAWING NOTES

1. THE FOLLOWING NOTES ONLY APPLY TO THIS DRAWING.
2. REFER TO GENERAL NOTES, ELECTRICAL TRADE NOTES, LEGEND AND ABBREVIATIONS ON DRAWING E0.01.
3. WIRE EXIT SIGNS AND EMERGENCY WALL PACKS AHEAD OF ALL SWITCHING.
4. REFER TO LIGHTING CONTROL DETAILS AND DIAGRAMS ON SHEETS E4.02, E4.03, E4.04, AND E4.05.
5. COORDINATE MOUNTING OF FIXTURE TYPE "C1-#" AND "C2-#" IN MECHANICAL ROOMS, ELECTRIC ROOM AND STORAGE ROOMS WITH MECHANICAL DUCTWORK AND PIPING PRIOR TO INSTALLATION. FIXTURES SHALL BE SURFACE OF CHAIN HUNG AS HIGH AS POSSIBLE WHILE MAINTAINING AN UNOBSTRUCTED PATH OF ILLUMINATION TO THE FLOOR.
6. COORDINATE MOUNTING OF FIXTURE TYPE "C2" IN TELECOMMUNICATIONS ROOM WITH TELECOMMUNICATIONS EQUIPMENT AND CABLETRAY LAYOUT PRIOR TO INSTALLATION OF ANY CABLE OR CONDUIT. FIXTURES ARE TO BE MOUNTED AT 8'-2" AFF (U.O.N). REFER TO TELECOM DRAWING T1.31.
7. COORDINATE MOUNTING OF FIXTURE TYPE "C2" IN MAIN ELECTRICAL ROOM WITH ELECTRICAL DISTRIBUTION GEAR AND EQUIPMENT PRIOR TO INSTALLATION OF ANY CABLE OR CONDUIT. FIXTURES ARE TO BE MOUNTED AT 8'-2"AFF (U.O.N). REFER TO ELECTRICAL POWER DRAWING E2.41.
8. WALL MOUNT FIXTURE JUST ABOVE DOOR OPENING.
9. REFER TO TYPICAL STAIRWELL LIGHTING WIRING DIAGRAM ON DRAWING E4.03.
10. COORDINATE MOUNTING OF TYPE "C1" FIXTURES IN WATER SERVICE ROOM WITH PLUMING AND FIRE PROTECTION EQUIPMENT AND PIPING PRIOR TO INSTALLATION OF ANY CABLE OR CONDUIT. FIXTURES ARE TO BE SURFACE MOUNTED TO THE BOTTOM OF THE WIDE FLANGE BEAM AT APPROXIMATELY 7'-10"AFF. REFER TO PLUMBING DRAWING P1.09 AND FIRE PROTECTION DRAWING FP1.09.
11. FIXTURES ARE TO BE MOUNTED AT 8'-8"AFF (U.O.N).



1 BASEMENT - LIGHTING PLAN
1/8" = 1'-0"

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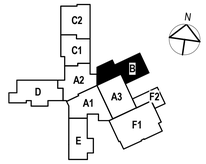
SANFORD, ME 04073

NO.	DESCRIPTION	DATE



CONTENT:
BASEMENT LIGHTING PLAN

DRAWN BY:	C. NEWELL
PROJECT NO:	12-067-00
DATE:	02/11/2016
REVISED:	
SCALE:	1/8" = 1'-0"

E1.09

Project Phase
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1 LEVEL 1 - LIGHTING PLAN - AREA A1
1/8" = 1'-0"

DRAWING NOTES

1 THE FOLLOWING NOTES ONLY APPLY TO THIS DRAWING.

2 REFER TO GENERAL NOTES, ELECTRICAL TRADE NOTES, LEGEND AND ABBREVIATIONS ON DRAWING E0.01.

3 WIRE EXIT SIGNS AND EMERGENCY WALL PACKS AHEAD OF ALL SWITCHING.

4 REFER TO LIGHTING CONTROL DETAILS AND DIAGRAMS ON SHEETS E4.02, E4.03, E4.04, AND E4.05.

5 DAYLIGHT HARVESTING PHOTOCELLS "PCD" SHALL BE MOUNTED PER MANUFACTURERS RECOMMENDATIONS.

6 COORDINATE MOUNTING OF FIXTURE TYPE "C1-#" AND "C2-#" IN MECHANICAL ROOMS, ELECTRIC ROOM AND STORAGE ROOMS WITH MECHANICAL DUCTWORK AND PIPING PRIOR TO INSTALLATION. FIXTURES SHALL BE SURFACE OF CHAIN HUNG AS HIGH AS POSSIBLE WHILE MAINTAINING AN UNOBSTRUCTED PATH OF ILLUMINATION TO THE FLOOR.

7 COORDINATE LOCATION OF EXIT SIGN AND LIGHTING CONTROL STATION WITH ARCHITECT PRIOR TO INSTALLATION.

8 LOCATE FIXTURE TYPES "C3" IN PIT. COORDINATE MOUNTING OF ELEVATOR PIT FIXTURES WITH ELEVATOR MANUFACTURER PRIOR TO INSTALLATION. REFER TO ELEVATOR DETAILS ON FIRE ALARM DETAIL SHEET FOR ADDITIONAL INFORMATION.

9 REFER TO ELEVATOR MACHINE ROOM DETAIL.

10 INSTALL UL924 "E" EMERGENCY TRANSFER DEVICE AND LIGHTING CONTROL "GLPP" DEVICE IN ACCESSIBLE CEILING.

11 VERTICALLY MOUNTED TYPE A3-# & A6-# FIXTURES ARE TO BE CIRCUITED TOGETHER AND CONTROLLED FROM RELAY 1 AT THE GLPP-D3 UNIT INDICATED IN MAIN COMMONS. HORIZONTALLY MOUNTED TYPE "A6" FIXTURES ARE TO BE CIRCUITED TOGETHER AND CONTROLLED FROM RELAY 2 AT THE GLPP-D3 UNIT IN MAIN COMMONS.

12 EXTERIOR BUILDING MOUNT FIXTURES - LOCATE UL924 AND LIGHTING CONTROL DEVICE GLPP-D2 IN AN ACCESSIBLE CEILING.

13 EXIT SIGN TO BE MULLION MOUNTED. COORDINATE WITH ARCHITECTURAL DETAILS, ELEVATIONS, AND WINDOW/DOOR SYSTEM BEING PROVIDED.

14 B1-10 FIXTURE IS INTENDED FOR ILLUMINATION OF SIGNAGE. COORDINATE MOUNTING WITH ARCHITECTURAL DETAILS PRIOR TO INSTALLATION OF ANY CABLE OR CONDUIT.

15 REFER TO ARCHITECTURAL DRAWINGS, PLANS AND ELEVATIONS, FOR EXACT LOCATIONS OF WALL-MOUNTED EQUIPMENT AND LIGHTING IN THE MAIN LOBBY.

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SANFORD, ME 04073

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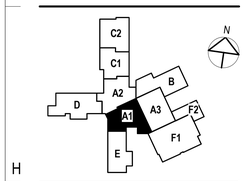

CONTENT:
FIRST FLOOR LIGHTING PLAN - AREA A1

DRAWN BY:	C. NEWELL
PROJECT NO:	12-067-00
DATE:	02/11/2016
REVISED:	
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E1.10

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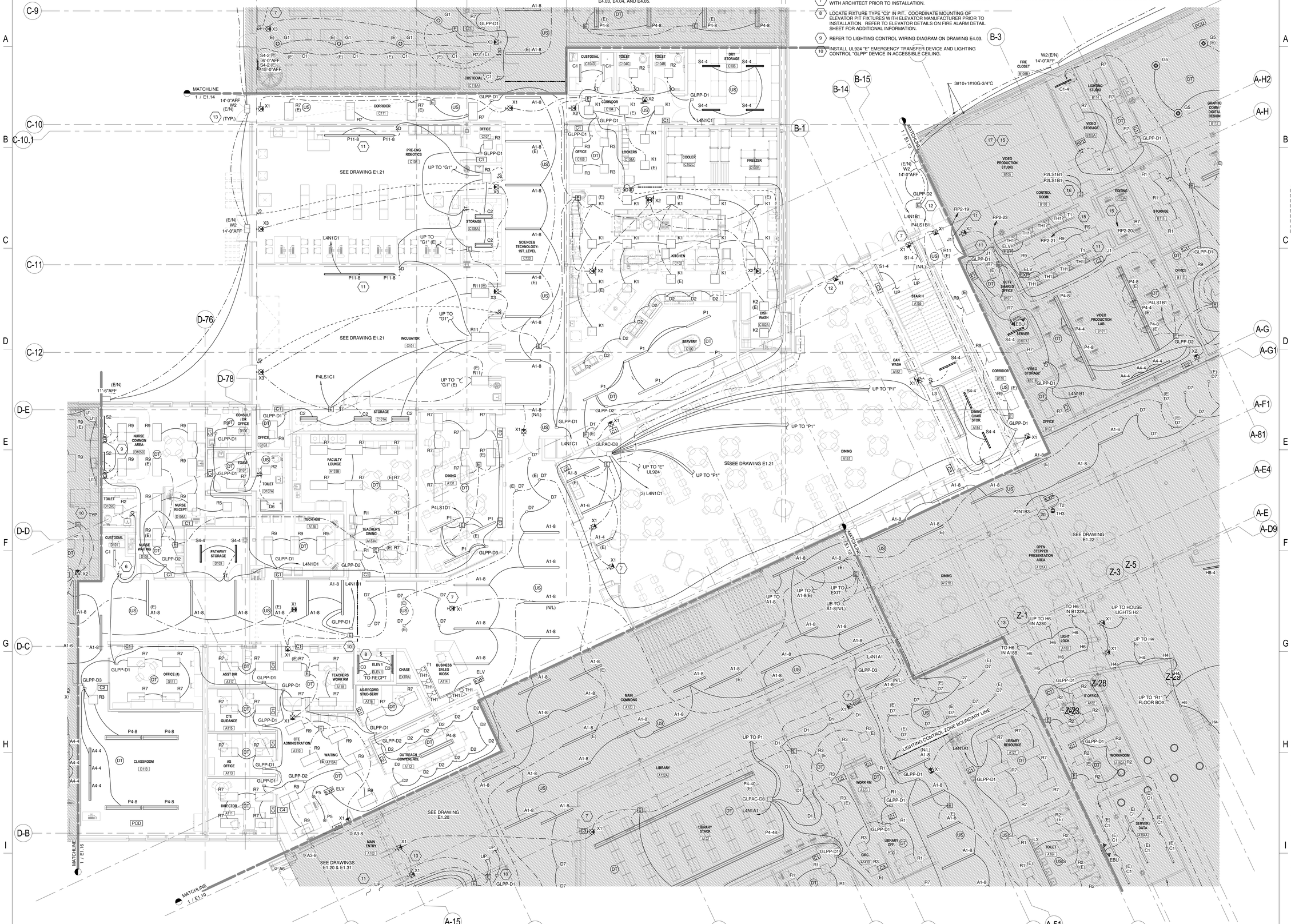
DRAWING NOTES

1. THE FOLLOWING NOTES ONLY APPLY TO THIS DRAWING.
2. REFER TO GENERAL NOTES, ELECTRICAL TRADE NOTES, LEGEND AND ABBREVIATIONS ON DRAWING E0.01.
3. WIRE EXIT SIGNS AND EMERGENCY WALL PACKS AHEAD OF ALL SWITCHING.
4. REFER TO LIGHTING CONTROL DETAILS AND DIAGRAMS ON SHEETS E4.02, E4.03, E4.04, AND E4.05.
5. DAYLIGHT HARVESTING PHOTOCELLS "PCD" SHALL BE MOUNTED PER MANUFACTURERS RECOMMENDATIONS.
6. COORDINATE MOUNTING OF FIXTURE TYPE "C1-#" AND "C2-#" IN MECHANICAL ROOMS, ELECTRIC ROOM AND STORAGE ROOMS WITH MECHANICAL DUCTWORK AND PIPING PRIOR TO INSTALLATION. FIXTURES SHALL BE SURFACE OF CHAIN HUNG AS HIGH AS POSSIBLE WHILE MAINTAINING AN UNOBSTRUCTED PATH OF ILLUMINATION TO THE FLOOR.
7. COORDINATE LOCATION OF EXIT SIGN AND LIGHTING CONTROL STATION WITH ARCHITECT PRIOR TO INSTALLATION.
8. LOCATE FIXTURE TYPE "C3" IN PIT. COORDINATE MOUNTING OF ELEVATOR PIT FIXTURES WITH ELEVATOR MANUFACTURER PRIOR TO INSTALLATION. REFER TO ELEVATOR DETAILS ON FIRE ALARM DETAIL SHEET FOR ADDITIONAL INFORMATION.
9. REFER TO LIGHTING CONTROL WIRING DIAGRAM ON DRAWING E4.03.
10. INSTALL UL924 "E" EMERGENCY TRANSFER DEVICE AND LIGHTING CONTROL "GLPP" DEVICE IN ACCESSIBLE CEILING.
11. TYPE "P11-#" FIXTURE SHALL BE MOUNTED AT 9'-0"AFF (U.O.N). CIRCUIT POWERING FIXTURES THROUGH WALLBOX DIMMER SHALL BE WIRED THROUGH OCCUPANCY SENSOR POWER PACK / RELAY AUTO-OFF WITH ROOM LIGHTING.
12. EXIT SIGN TO BE MULLION MOUNTED. COORDINATE WITH ARCHITECTURAL DETAILS, ELEVATIONS, AND WINDOW/DOOR SYSTEM BEING PROVIDED.
13. REFER TO ARCHITECTURAL ELEVATIONS AND DETAILS FOR BUILDING MOUNTED EXTERIOR LIGHTING LOCATIONS AND MOUNTING HEIGHTS.



1 LEVEL 1 - LIGHTING PLAN - AREA A2
1/8" = 1'-0"

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SANFORD, ME 04073

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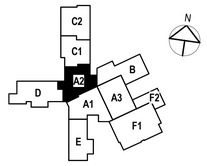

CONTENT:
FIRST FLOOR LIGHTING PLAN - AREA A2

DRAWN BY:	C. NEWELL
PROJECT NO:	12-067-00
DATE:	02/11/2016
REVISED:	
SCALE:	1/8" = 1'-0"

E1.11

Project Phase
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1 LEVEL 1 - LIGHTING PLAN - AREA A3
1/8" = 1'-0"

DRAWING NOTES

1. THE FOLLOWING NOTES ONLY APPLY TO THIS DRAWING.
2. REFER TO GENERAL NOTES, ELECTRICAL TRADE NOTES, LEGEND AND ABBREVIATIONS ON DRAWING E0.01.
3. WIRE EXIT SIGNS AND EMERGENCY WALL PACKS AHEAD OF ALL SWITCHING.
4. REFER TO LIGHTING CONTROL DETAILS AND DIAGRAMS ON SHEETS E4.02, E4.03, E4.04, AND E4.05.
5. DAYLIGHT HARVESTING PHOTOCELLS "PCD" SHALL BE MOUNTED PER MANUFACTURERS RECOMMENDATIONS.
6. COORDINATE MOUNTING OF FIXTURE TYPE "C1-#" AND "C2-#" IN MECHANICAL ROOMS, ELECTRIC ROOM AND STORAGE ROOMS WITH MECHANICAL DUCTWORK AND PIPING PRIOR TO INSTALLATION. FIXTURES SHALL BE SURFACE OF CHAIN HUNG AS HIGH AS POSSIBLE WHILE MAINTAINING AN UNOBSTRUCTED PATH OF ILLUMINATION TO THE FLOOR. UNOBSTRUCTED PATH OF ILLUMINATION TO THE FLOOR.
7. COORDINATE MOUNTING OF EXIT SIGN WITH ARCHITECT PRIOR TO INSTALLATION.
8. PROVIDE CONNECTION TO ARBOR PIT INDEX RAIL LIGHT FIXTURE(S).
9. COORDINATE MOUNTING OF FIXTURE TYPE "C2-#" IN DATA ROOM, WITH CABLE TRAY, MECHANICAL DUCTWORK AND PIPING PRIOR TO INSTALLATION. FIXTURES SHALL BE SURFACE OF CHAIN HUNG AS HIGH AS POSSIBLE WHILE MAINTAINING AN UNOBSTRUCTED PATH OF ILLUMINATION TO THE FLOOR.
10. INSTALL UL924 "E" EMERGENCY TRANSFER DEVICE AND LIGHTING CONTROL "GLPP" DEVICE IN AN ACCESSIBLE CEILING.
11. TRANSFORMER(S) PROVIDED WITH SEATING. LOCATE TRANSFORMER(S) IN ACCESSIBLE LOCATION IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS. PROVIDE QUANTITY OF TRANSFORMERS REQUIRED FOR LAYOUT INDICATED BASED ON MANUFACTURERS RECOMMENDED LOADING. SEE FLOOR BOX SCHEDULE FOR REQUIREMENTS. COORDINATE ALL REQUIREMENTS AND FINAL LOCATIONS WITH THEATER CONSULTANT.
12. PROVIDE WHIP AND CONNECTION FROM FLOOR BOX TO SEATING LIGHTING. COORDINATE REQUIREMENTS WITH SEATING MANUFACTURER PRIOR TO INSTALLATION.
13. COORDINATE WITH AV CONTRACTOR AND ARCHITECTURAL DETAILS FOR AV TOUCHSCREEN CONTROL STATION DETAILS AND LOCATION. SEE LIGHTING CONTROL WIRING DIAGRAMS AND DETAILS.
14. SPACE SHALL BE WIRED FOR OCCUPANCY SENSING (NOT VACANCY SENSING) .
15. PROVIDE DATA ENABLER PRO UNITS (QTY = 5) FOR TYPE H7 FIXTURES, WALL MOUNTED IN AN ORGANIZED FASHION AND LABELED TO INDICATE CONTROL. SEE LIGHTING FIXTURE SCHEDULE
16. COORDINATE MOUNTING OF TYPE H4 FIXTURES WITH ARCHITECTURAL DETAILS AND ELEVATIONS PRIOR TO INSTALLATION. FIXTURES ARE TO BE MOUNTED AT 2'-0" AFF. TYPPICAL.
17. COORDINATE MOUNTING OF TYPE H8-# FIXTURES WITH ARCHITECTURAL DETAILS PRIOR TO INSTALLATION. FIXTURES ARE RECESSED MOUNTED WITH AN ASYMMETRIC DISTRIBUTION TO WASH THE ADJACENT WALL PANELS, TYPICAL.
18. COORDINATE MOUNTING OF TYPE H3 AND H5-# FIXTURES AT LIGHT TOWERS WITH AV CONTRACTOR PRIOR TO INSTALLATION.
19. REFER TO ARCHITECTURAL ELEVATIONS AND DETAILS FOR BUILDING MOUNTED EXTERIOR LIGHTING LOCATIONS AND MOUNTING HEIGHTS.
20. FIXTURE TYPE TH3 IS INTENDED TO ILLUMINATE THE PRESENTER. COORDINATE TRACK AND TRACKHEAD MOUNTING HEIGHT ON VERTICAL SOFFIT WITH ARCHITECTURAL DETAILS AND ELEVATIONS PRIOR TO INSTALLATION. PROVIDE DIMMING CONTROL EXPANSION MODULE MOUNTED IN ACCESSIBLE CEILING AT 1ST FLOOR.

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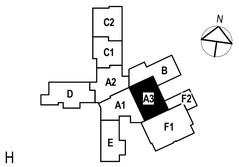
NO.	DESCRIPTION	DATE



CONTENT:
FIRST FLOOR LIGHTING PLAN - AREA A3

DRAWN BY:	C. NEWELL
PROJECT NO:	12-067-00
DATE:	02/11/2016
REVISED:	
SCALE:	1/8" = 1'-0"

E1.12

Project Phase
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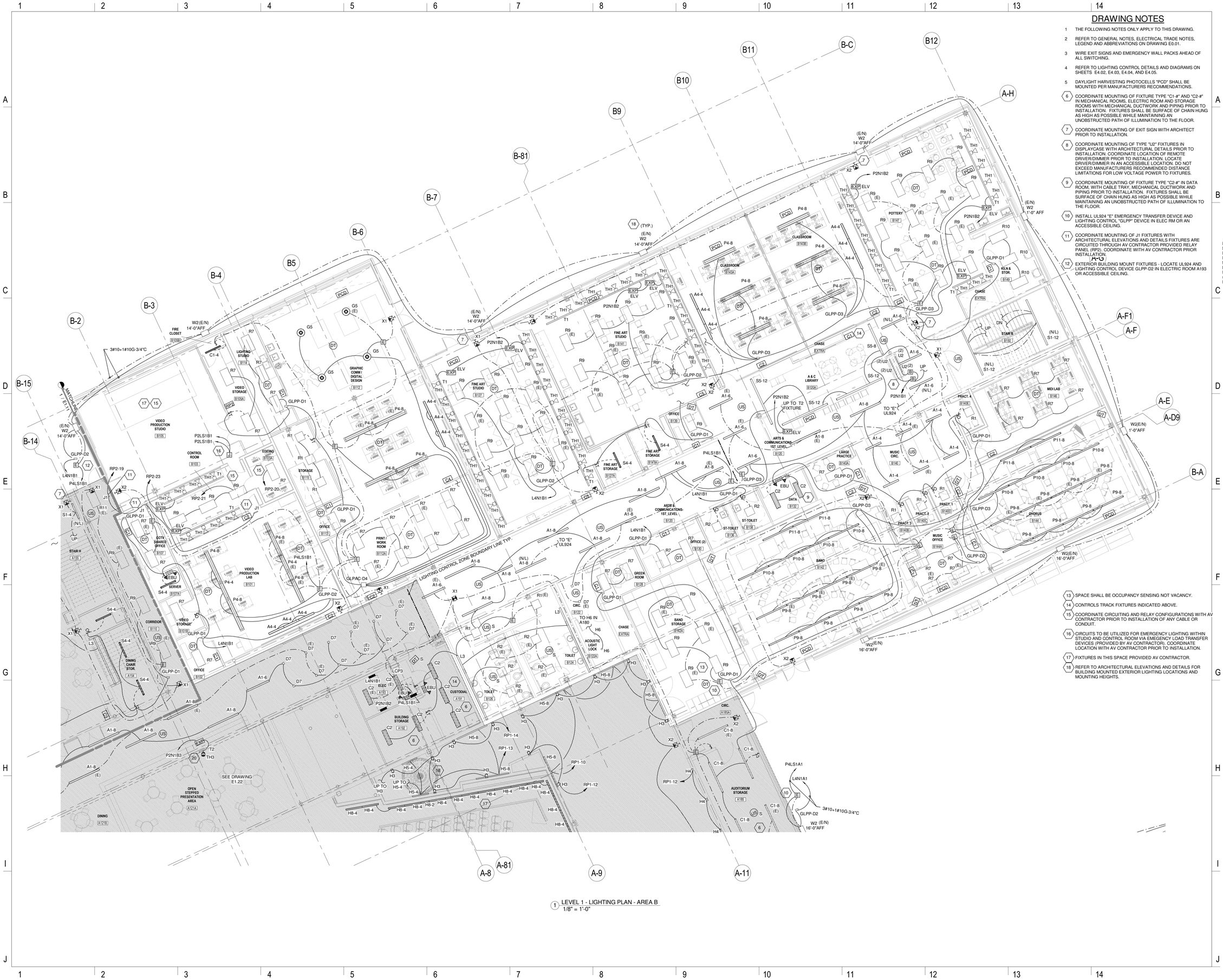

1 LEVEL 1 - LIGHTING PLAN - AREA B
1/8" = 1'-0"

DRAWING NOTES

1. THE FOLLOWING NOTES ONLY APPLY TO THIS DRAWING.
2. REFER TO GENERAL NOTES, ELECTRICAL TRADE NOTES, LEGEND AND ABBREVIATIONS ON DRAWING E0.01.
3. WIRE EXIT SIGNS AND EMERGENCY WALL PACKS AHEAD OF ALL SWITCHING.
4. REFER TO LIGHTING CONTROL DETAILS AND DIAGRAMS ON SHEETS E4.02, E4.03, E4.04, AND E4.05.
5. DAYLIGHT HARVESTING PHOTOCELLS "PCD" SHALL BE MOUNTED PER MANUFACTURERS RECOMMENDATIONS.
6. COORDINATE MOUNTING OF FIXTURE TYPE "C1-#" AND "C2-#" IN MECHANICAL ROOMS, ELECTRIC ROOM AND STORAGE ROOMS WITH MECHANICAL DUCTWORK AND PIPING PRIOR TO INSTALLATION. FIXTURES SHALL BE SURFACE OF CHAIN HUNG AS HIGH AS POSSIBLE WHILE MAINTAINING AN UNOBSTRUCTED PATH OF ILLUMINATION TO THE FLOOR.
7. COORDINATE MOUNTING OF EXIT SIGN WITH ARCHITECT PRIOR TO INSTALLATION.
8. COORDINATE MOUNTING OF TYPE "U2" FIXTURES IN DISPLAYCASE WITH ARCHITECTURAL DETAILS PRIOR TO INSTALLATION. COORDINATE LOCATION OF REMOTE DRIVER/DIMMER PRIOR TO INSTALLATION. LOCATE DRIVER/DIMMER IN AN ACCESSIBLE LOCATION. DO NOT EXCEED MANUFACTURERS RECOMMENDED DISTANCE LIMITATIONS FOR LOW VOLTAGE POWER TO FIXTURES.
9. COORDINATE MOUNTING OF FIXTURE TYPE "C2-#" IN DATA ROOM, WITH CABLE TRAY, MECHANICAL DUCTWORK AND PIPING PRIOR TO INSTALLATION. FIXTURES SHALL BE SURFACE OF CHAIN HUNG AS HIGH AS POSSIBLE WHILE MAINTAINING AN UNOBSTRUCTED PATH OF ILLUMINATION TO THE FLOOR.
10. INSTALL UL924 "E" EMERGENCY TRANSFER DEVICE AND LIGHTING CONTROL "GLPP" DEVICE IN ELEC RM OR AN ACCESSIBLE CEILING.
11. COORDINATE MOUNTING OF J1 FIXTURES WITH ARCHITECTURAL ELEVATIONS AND DETAILS FIXTURES ARE CIRCUITED THROUGH AV CONTRACTOR PROVIDED RELAY PANEL (RP2). COORDINATE WITH AV CONTRACTOR PRIOR INSTALLATION.
12. EXTERIOR BUILDING MOUNT FIXTURES - LOCATE UL924 AND LIGHTING CONTROL DEVICE GLPP-D2 IN ELECTRIC ROOM A193 OR ACCESSIBLE CEILING.
13. SPACE SHALL BE OCCUPANCY SENSING NOT VACANCY.
14. CONTROLS TRACK FIXTURES INDICATED ABOVE.
15. COORDINATE CIRCUITING AND RELAY CONFIGURATIONS WITH AV CONTRACTOR PRIOR TO INSTALLATION OF ANY CABLE OR CONDUIT.
16. CIRCUITS TO BE UTILIZED FOR EMERGENCY LIGHTING WITHIN STUDIO AND CONTROL ROOM VIA EMEGENCY LOAD TRANSFER DEVICES (PROVIDED BY AV CONTRACTOR). COORDINATE LOCATION WITH AV CONTRACTOR PRIOR TO INSTALLATION.
17. FIXTURES IN THIS SPACE PROVIDED AV CONTRACTOR.
18. REFER TO ARCHITECTURAL ELEVATIONS AND DETAILS FOR BUILDING MOUNTED EXTERIOR LIGHTING LOCATIONS AND MOUNTING HEIGHTS.

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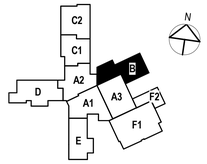
www.rfsengineering.com
RFS Project #: 7300.001
STATE OF MAINE CHRISTOPHER M. SHUMWAY No. 16697 LICENSED PROFESSIONAL ENGINEER

Sanford School Department and
State of Maine Department of
Education

SANFORD HIGH SCHOOL and TECHNICAL CENTER

SANFORD, ME 04073

NO.	DESCRIPTION	DATE



CONTENT:
FIRST FLOOR LIGHTING PLAN - AREA B

DRAWN BY:	C. NEWELL
PROJECT NO:	12-067-00
DATE:	02/11/2016
REVISED:	
SCALE:	1/8" = 1'-0"

E1.13

Project Phase
BID DOCUMENTS

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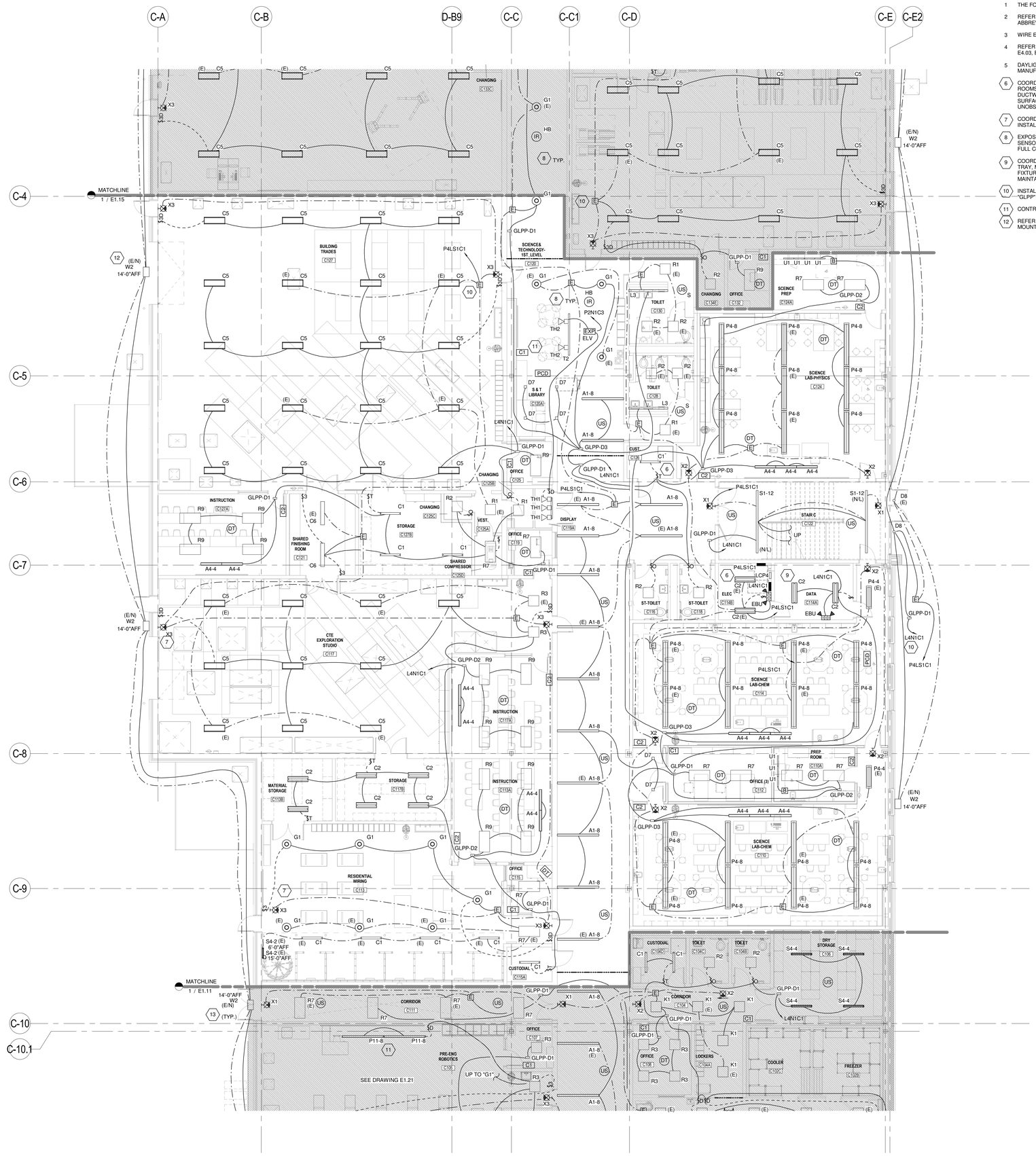

1 LEVEL 1 - LIGHTING PLAN - AREA C1
1/8" = 1'-0"

DRAWING NOTES

1. THE FOLLOWING NOTES ONLY APPLY TO THIS DRAWING.
2. REFER TO GENERAL NOTES, ELECTRICAL TRADE NOTES, LEGEND AND ABBREVIATIONS ON DRAWING E0.01.
3. WIRE EXIT SIGNS AND EMERGENCY WALL PACKS AHEAD OF ALL SWITCHING.
4. REFER TO LIGHTING CONTROL DETAILS AND DIAGRAMS ON SHEETS E4.02, E4.03, E4.04, AND E4.05.
5. DAYLIGHT HARVESTING PHOTOCELLS "PCD" SHALL BE MOUNTED PER MANUFACTURERS RECOMMENDATIONS.
6. COORDINATE MOUNTING OF FIXTURE TYPE "C1-#" AND "C2-#" IN MECHANICAL ROOMS, ELECTRIC ROOM AND STORAGE ROOMS WITH MECHANICAL DUCTWORK AND PIPING PRIOR TO INSTALLATION. FIXTURES SHALL BE SURFACE OF CHAIN HUNG AS HIGH AS POSSIBLE WHILE MAINTAINING AN UNOBSTRUCTED PATH OF ILLUMINATION TO THE FLOOR.
7. COORDINATE MOUNTING OF EXIT SIGN WITH ARCHITECT PRIOR TO INSTALLATION.
8. EXPOSED CEILING - PENDANT MOUNT HIGH BAY INFRARED OCCUPANCY SENSORS TO BOTTOM MECHANICAL DUCT, PIPING AND LIGHT FIXTURES FOR FULL COVERAGE.
9. COORDINATE MOUNTING OF FIXTURE TYPE "C2-#" IN DATA ROOM, WITH CABLE TRAY, MECHANICAL DUCTWORK AND PIPING PRIOR TO INSTALLATION. FIXTURES SHALL BE SURFACE OF CHAIN HUNG AS HIGH AS POSSIBLE WHILE MAINTAINING AN UNOBSTRUCTED PATH OF ILLUMINATION TO THE FLOOR.
10. INSTALL UL924 "E" EMERGENCY TRANSFER DEVICE AND LIGHTING CONTROL "GLPP" DEVICE AIN ACCESSIBLE CEILING.
11. CONTROLS TRACK FIXTURES TH2.
12. REFER TO ARCHITECTURAL ELEVATIONS AND DETAILS FOR BUILDING MOUNTED EXTERIOR LIGHTING LOCATIONS AND MOUNTING HEIGHTS.

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SANFORD, ME 04073

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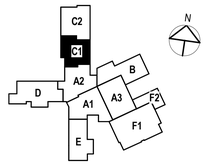

CONTENT:
FIRST FLOOR LIGHTING PLAN - AREA C1

DRAWN BY:	C. NEWELL
PROJECT NO:	12-067-00
DATE:	02/11/2016
REVISED:	
SCALE:	1/8" = 1'-0"

E1.14

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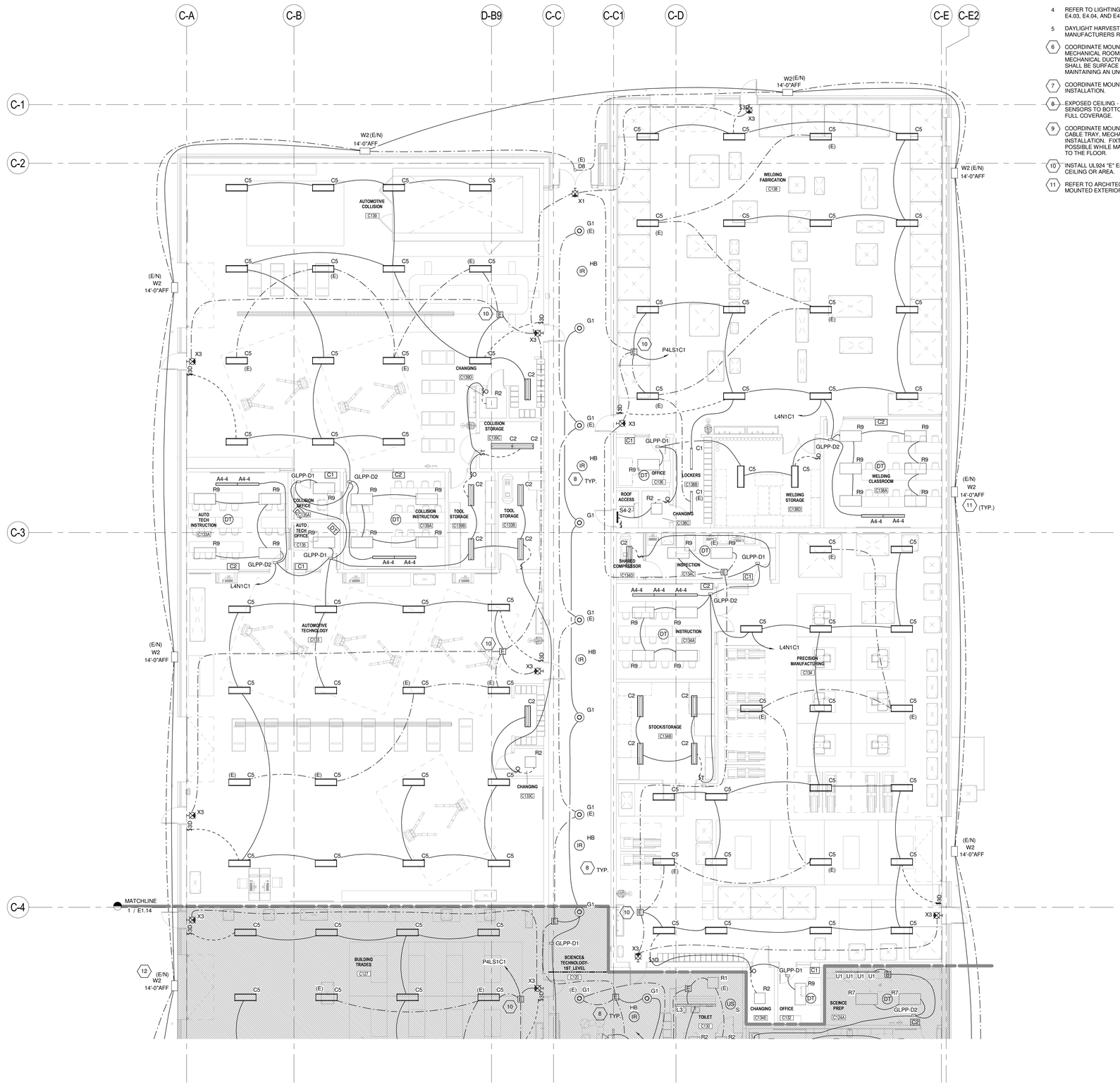

1 LEVEL 1 - LIGHTING PLAN - AREA C2
1/8" = 1'-0"

DRAWING NOTES

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3. WIRE EXIT SIGNS AND EMERGENCY WALL PACKS AHEAD OF ALL SWITCHING.
4. REFER TO LIGHTING CONTROL DETAILS AND DIAGRAMS ON SHEETS E4.02, E4.03, E4.04, AND E4.05.
5. DAYLIGHT HARVESTING PHOTOCELLS "PCD" SHALL BE MOUNTED PER MANUFACTURERS RECOMMENDATIONS.
6. COORDINATE MOUNTING OF FIXTURE TYPE "C1-#" AND "C2-#" IN MECHANICAL ROOMS, ELECTRIC ROOM AND STORAGE ROOMS WITH MECHANICAL DUCTWORK AND PIPING PRIOR TO INSTALLATION. FIXTURES SHALL BE SURFACE OF CHAIN HUNG AS HIGH AS POSSIBLE WHILE MAINTAINING AN UNOBSTRUCTED PATH OF ILLUMINATION TO THE FLOOR.
7. COORDINATE MOUNTING OF EXIT SIGN WITH ARCHITECT PRIOR TO INSTALLATION.
8. EXPOSED CEILING - PENDANT MOUNT HIGH BAY INFRARED OCCUPANCY SENSORS TO BOTTOM MECHANICAL DUCT, PIPING AND LIGHT FIXTURES FOR FULL COVERAGE.
9. COORDINATE MOUNTING OF FIXTURE TYPE "C2-#" IN DATA ROOM, WITH CABLE TRAY, MECHANICAL DUCTWORK AND PIPING PRIOR TO INSTALLATION. FIXTURES SHALL BE SURFACE OF CHAIN HUNG AS HIGH AS POSSIBLE WHILE MAINTAINING AN UNOBSTRUCTED PATH OF ILLUMINATION TO THE FLOOR.
10. INSTALL UL924 "E" EMERGENCY TRANSFER DEVICE IN AN ACCESSIBLE CEILING OR AREA.
11. REFER TO ARCHITECTURAL ELEVATIONS AND DETAILS FOR BUILDING MOUNTED EXTERIOR LIGHTING LOCATIONS AND MOUNTING HEIGHTS.

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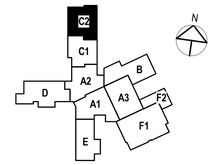

CONTENT:
FIRST FLOOR LIGHTING PLAN - AREA C2

DRAWN BY:	C. NEWELL
PROJECT NO:	12-067-00
DATE:	02/11/2016
REVISED:	
SCALE:	1/8" = 1'-0"

E1.15

Project Phase
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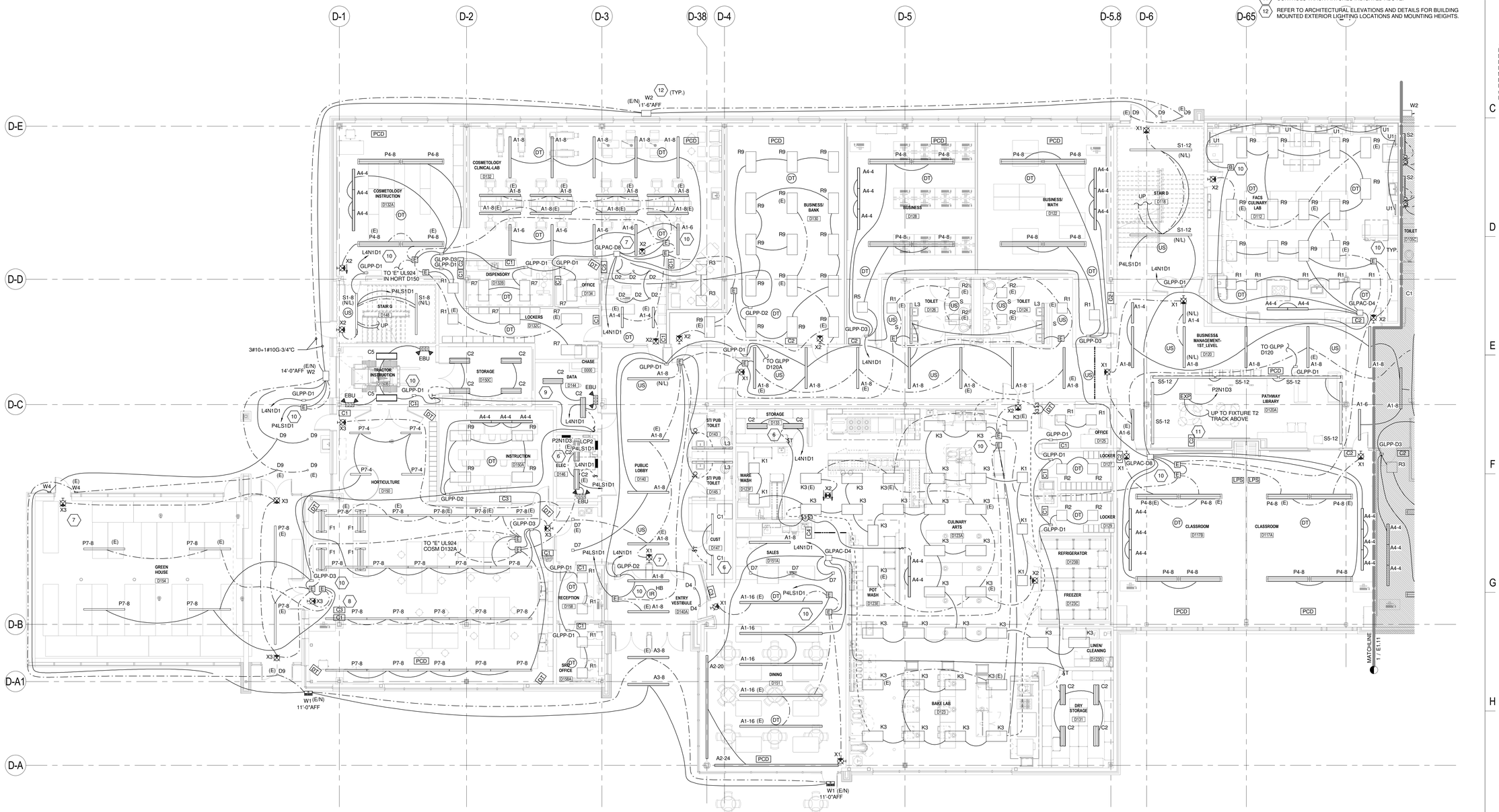
DRAWING NOTES

1. THE FOLLOWING NOTES ONLY APPLY TO THIS DRAWING.
2. REFER TO GENERAL NOTES, ELECTRICAL TRADE NOTES, LEGEND AND ABBREVIATIONS ON DRAWING E0.01.
3. WIRE EXIT SIGNS AND EMERGENCY WALL PACKS AHEAD OF ALL SWITCHING.
4. REFER TO LIGHTING CONTROL DETAILS AND DIAGRAMS ON SHEETS E4.02, E4.03, E4.04 AND E4.04.
5. DAYLIGHT HARVESTING PHOTOCELLS "PCD" SHALL BE MOUNTED PER MANUFACTURERS RECOMMENDATIONS.
6. COORDINATE MOUNTING OF FIXTURE TYPE "C1-#" AND "C2-#" IN MECHANICAL ROOMS, ELECTRIC ROOM AND STORAGE ROOMS WITH MECHANICAL DUCTWORK AND PIPING PRIOR TO INSTALLATION. FIXTURES SHALL BE SURFACE OF CHAIN HUNG AS HIGH AS POSSIBLE WHILE MAINTAINING AN UNOBSTRUCTED PATH OF ILLUMINATION TO THE FLOOR.
7. COORDINATE LOCATION AND MOUNTING OF EXIT SIGN WITH ARCHITECT PRIOR TO INSTALLATION.
8. C3 LIGHTING CONTROL STATION CONTROL P7 AND S6 FIXTURES IN GREENHOUSE.
9. COORDINATE MOUNTING OF FIXTURE TYPE "C2-#" IN DATA ROOM, WITH CABLE TRAY, MECHANICAL DUCTWORK AND PIPING PRIOR TO INSTALLATION. FIXTURES SHALL BE SURFACE OF CHAIN HUNG AS HIGH AS POSSIBLE WHILE MAINTAINING AN UNOBSTRUCTED PATH OF ILLUMINATION TO THE FLOOR.
10. INSTALL UL924 "E" EMERGENCY TRANSFER DEVICE AND LIGHTING CONTROL "GLPP" DEVICE IN ELEC ROOM OR ACCESSIBLE CEILING. COORDINATE WITH ARCHITECT PRIOR TO INSTALLATION.
11. CONTROLS TRACK FIXTURES INDICATED ABOVE.
12. REFER TO ARCHITECTURAL ELEVATIONS AND DETAILS FOR BUILDING MOUNTED EXTERIOR LIGHTING LOCATIONS AND MOUNTING HEIGHTS.



1 LEVEL 1 - LIGHTING PLAN - AREA D
1/8" = 1'-0"

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RFS Project #: 7300.001
STATE OF MAINE CHRISTOPHER M. SHUMWAY No. 10697 LICENSED PROFESSIONAL ENGINEER

Sanford School Department and State of Maine Department of Education

SANFORD HIGH SCHOOL and TECHNICAL CENTER

SANFORD, ME 04073

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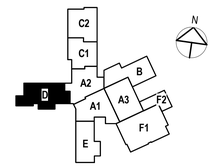

CONTENT:
FIRST FLOOR LIGHTING PLAN - AREA D

DRAWN BY:	C. NEWELL
PROJECT NO:	12-067-00
DATE:	02/11/2016
REVISED:	
SCALE:	1/8" = 1'-0"

E1.16

Project Phase
BID DOCUMENTS

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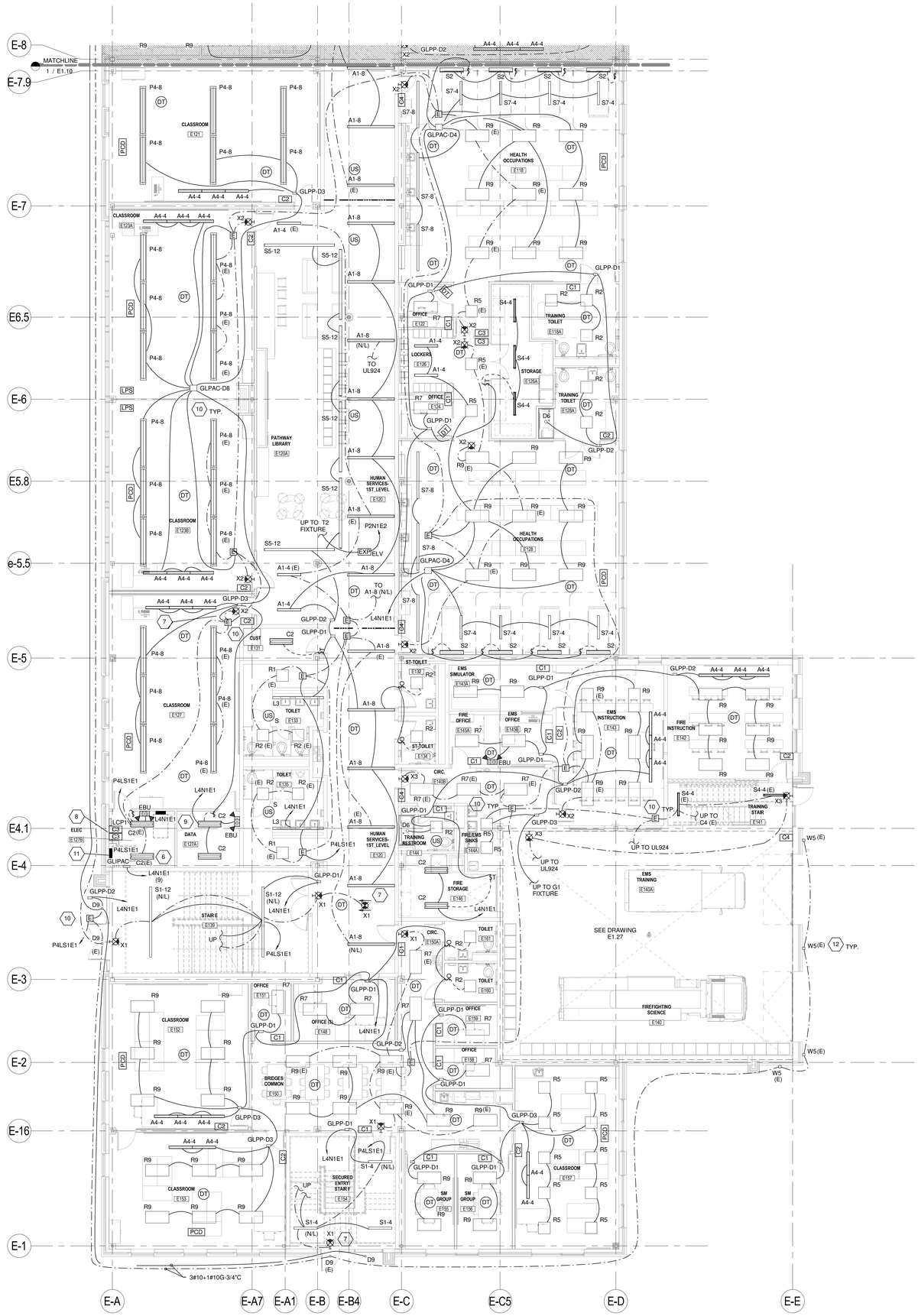

1 LEVEL 1 - LIGHTING PLAN - AREA E
1/8" = 1'-0"

DRAWING NOTES

1. THE FOLLOWING NOTES ONLY APPLY TO THIS DRAWING.
2. REFER TO GENERAL NOTES, ELECTRICAL TRADE NOTES, LEGEND AND ABBREVIATIONS ON DRAWING E0.01.
3. WIRE EXIT SIGNS AND EMERGENCY WALL PACKS AHEAD OF ALL SWITCHING.
4. REFER TO LIGHTING CONTROL DETAILS AND DIAGRAMS ON SHEETS E4.02, E4.03, E4.04, AND E4.05.
5. DAYLIGHT HARVESTING PHOTOCELLS "PCD" SHALL BE MOUNTED PER MANUFACTURERS RECOMMENDATIONS.
6. COORDINATE MOUNTING OF FIXTURE TYPE "C1-#" AND "C2-#" IN MECHANICAL ROOMS, ELECTRIC ROOM AND STORAGE ROOMS WITH MECHANICAL DUCTWORK AND PIPING PRIOR TO INSTALLATION. FIXTURES SHALL BE SURFACE OF CHAIN HUNG AS HIGH AS POSSIBLE WHILE MAINTAINING AN UNOBSTRUCTED PATH OF ILLUMINATION TO THE FLOOR.
7. COORDINATE MOUNTING OF EXIT SIGN WITH ARCHITECT PRIOR TO INSTALLATION.
8. PROVIDE (2) TWO OVERRIDE KEYPADS (LIGHTING CONTROL STATIONS) (1) ONE FOR BUILDING MOUNTED FIXTURES AND (1) FOR SITE LIGHTING. COORDINATE LOCATION WITH ARCHITECT PRIOR TO INSTALLATION.
9. COORDINATE MOUNTING OF FIXTURE TYPE "C2-#" IN DATA ROOM, WITH CABLE TRAY, MECHANICAL DUCTWORK AND PIPING PRIOR TO INSTALLATION. FIXTURES SHALL BE SURFACE OF CHAIN HUNG AS HIGH AS POSSIBLE WHILE MAINTAINING AN UNOBSTRUCTED PATH OF ILLUMINATION TO THE FLOOR.
10. INSTALL UL924 "E" EMERGENCY TRANSFER DEVICE AND LIGHTING CONTROL "GLPP" DEVICE IN ELECTRIC ROOM OR AN ACCESSIBLE CEILING.
11. GLIPAC CONTROLS SITE LIGHTING CIRCUITS, SEE WIRING DIAGRAMS AND ELECTRICAL SITE PLANS.
12. REFER TO ARCHITECTURAL ELEVATIONS AND DETAILS FOR BUILDING MOUNTED EXTERIOR LIGHTING LOCATIONS AND MOUNTING HEIGHTS.

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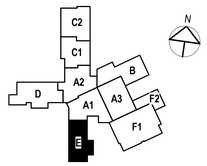

CONTENT:
FIRST FLOOR LIGHTING PLAN - AREA E

DRAWN BY:	C. NEWELL
PROJECT NO:	12-067-00
DATE:	02/11/2016
REVISED:	
SCALE:	1/8" = 1'-0"

E1.17

Project Phase
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DRAWING NOTES

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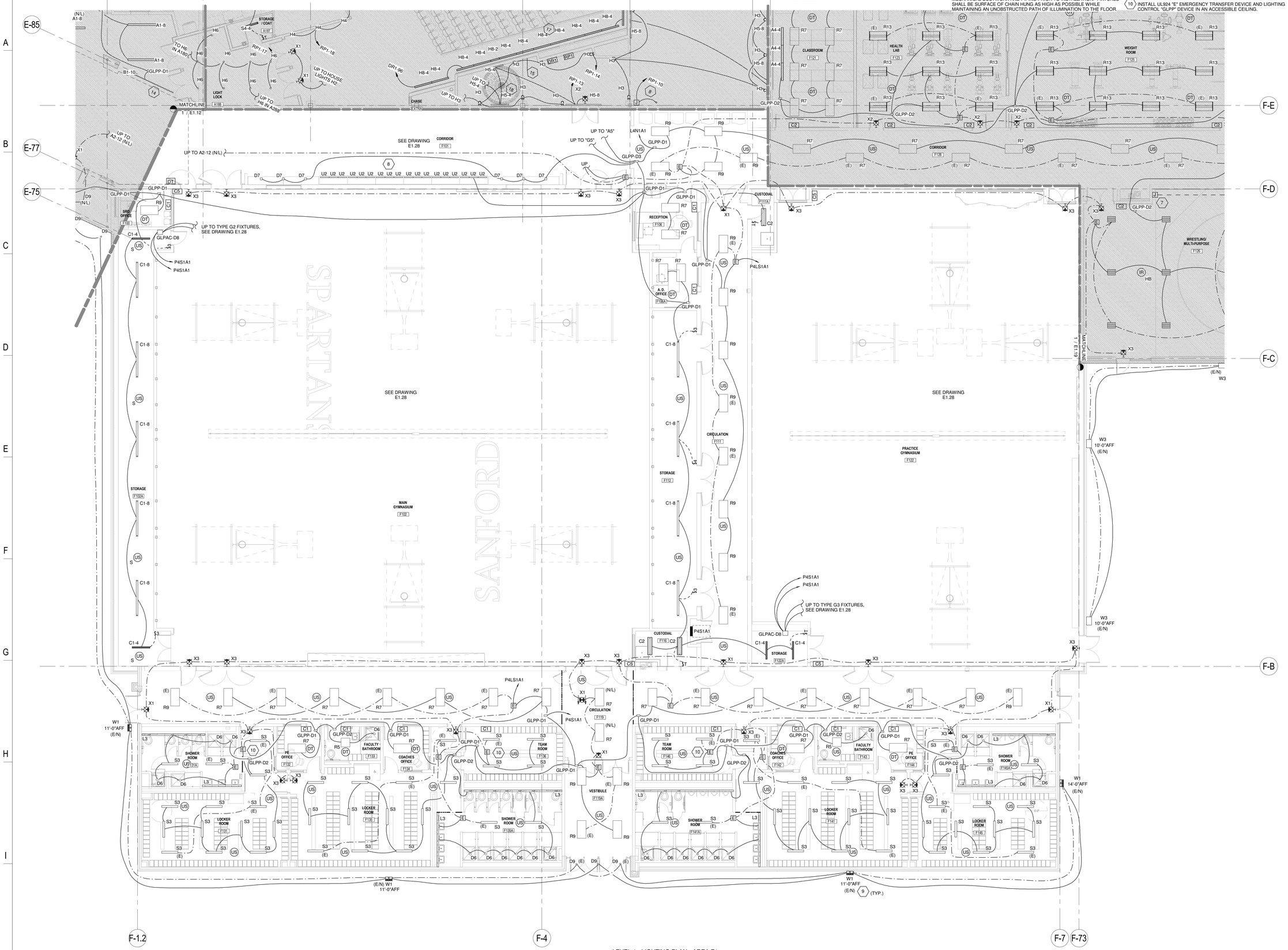
7. COORDINATE MOUNTING OF EXIT SIGN WITH ARCHITECT PRIOR TO INSTALLATION.
8. COORDINATE MOUNTING OF DISPLAYCASE LIGHTING WITH ARCHITECTURAL DETAILS AND CASE MANUFACTURER.
9. REFER TO ARCHITECTURAL ELEVATIONS AND DETAILS FOR BUILDING MOUNTED EXTERIOR LIGHTING LOCATIONS AND MOUNTING HEIGHTS.
10. INSTALL UL924 "E" EMERGENCY TRANSFER DEVICE AND LIGHTING CONTROL "GLPP" DEVICE IN AN ACCESSIBLE CEILING.



1 LEVEL 1 - LIGHTING PLAN - AREA F1
1/8" = 1'-0"

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SANFORD, ME 04073

NO.	DESCRIPTION	DATE

CONTENT:
FIRST FLOOR LIGHTING PLAN - AREA F1

DRAWN BY:	C. NEWELL
PROJECT NO:	12-067-00
DATE:	02/11/2016
REVISED:	
SCALE:	1/8" = 1'-0"

E1.18

Project Phase
BID DOCUMENTS

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DRAWING NOTES

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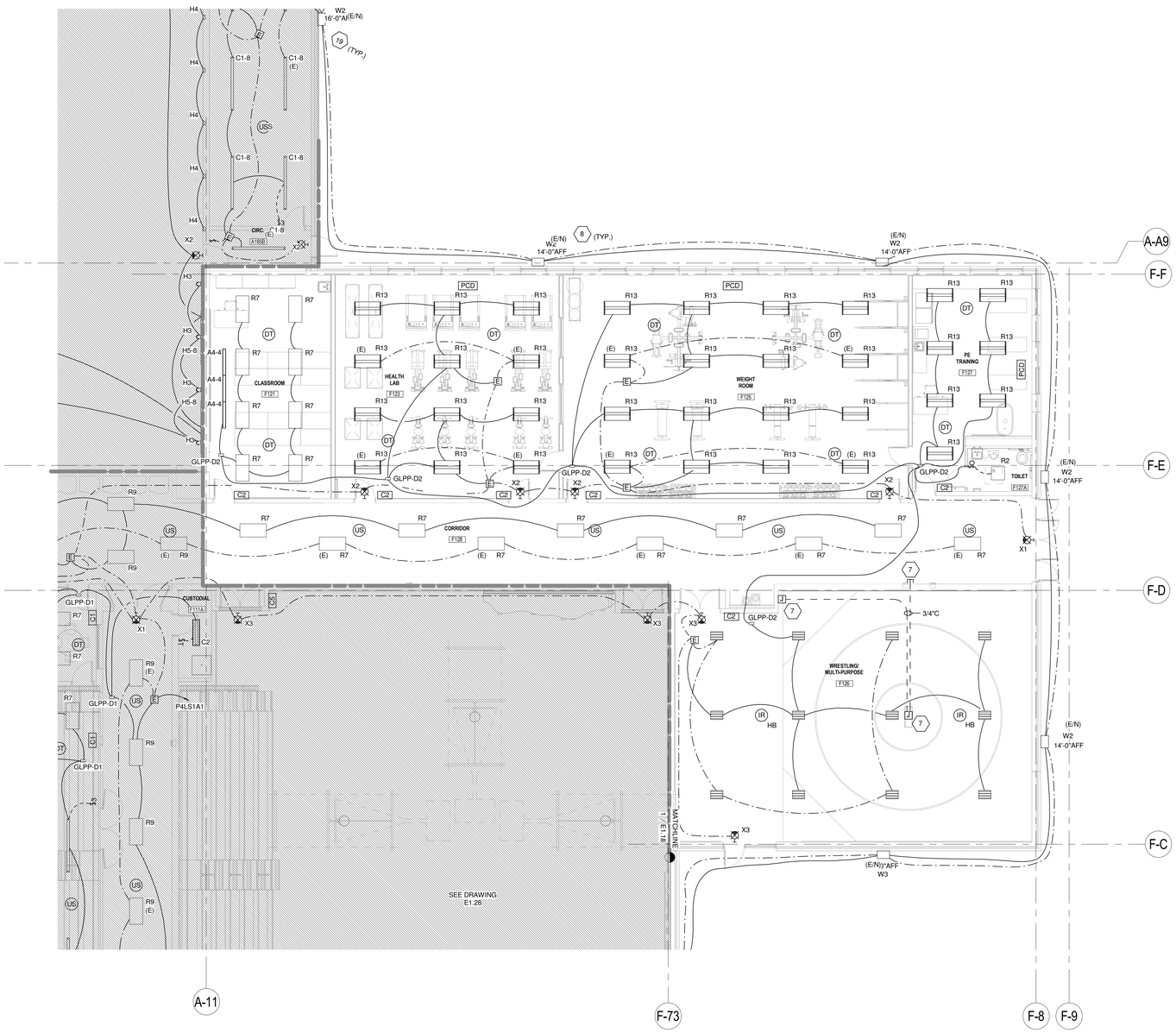
6. COORDINATE MOUNTING OF FIXTURE TYPE "C1-#" AND "C2-#" IN MECHANICAL ROOMS, ELECTRIC ROOM AND STORAGE ROOMS WITH MECHANICAL DUCTWORK AND PIPING PRIOR TO INSTALLATION. FIXTURES SHALL BE SURFACE OF CHAIN HUNG AS HIGH AS POSSIBLE WHILE MAINTAINING AN UNOBSTRUCTED PATH OF ILLUMINATION TO THE FLOOR.
7. PROVIDE JUNCTION BOX AT CEILING WITH 3/4"C OUT TO ACCESSIBLE CEILING IN CORRIDOR. PROVIDE 3/4"C FROM JUNCTION BOX AT CEILING TO RECESSED JUNCTION BOX (WITH BLANK COVER PLATE). CAP AND TAG CONDUIT ABOVE CEILING CORRIDOR "FUTURE WRESTLING ROOM SPOT LIGHT".
8. REFER TO ARCHITECTURAL ELEVATIONS AND DETAILS FOR BUILDING MOUNTED EXTERIOR LIGHTING LOCATIONS AND MOUNTING HEIGHTS.



1 LEVEL 1 - LIGHTING PLAN - AREA F2
1/8" = 1'-0"

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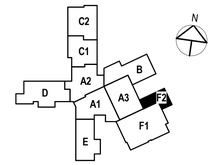

CONTENT:
FIRST FLOOR LIGHTING PLAN - AREA F2

DRAWN BY:	C. NEWELL
PROJECT NO:	12-067-00
DATE:	02/11/2016
REVISED:	
SCALE:	1/8" = 1'-0"

E1.19

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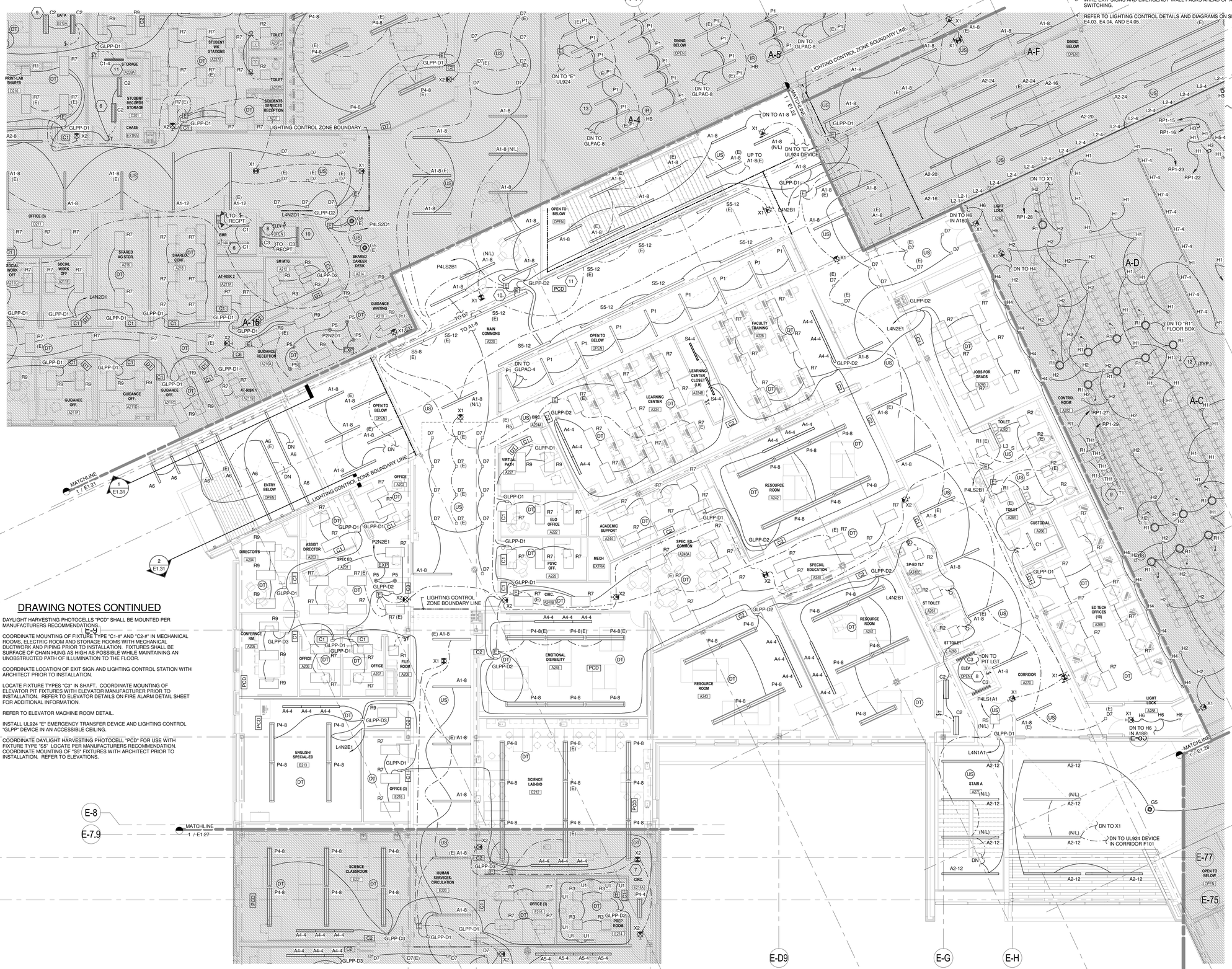

1 LEVEL 2 - LIGHTING PLAN - AREA A1
1/8" = 1'-0"

DRAWING NOTES

1. THE FOLLOWING NOTES ONLY APPLY TO THIS DRAWING.
2. REFER TO GENERAL NOTES, ELECTRICAL TRADE NOTES, LEGEND AND ABBREVIATIONS ON DRAWING E0.01.
3. WIRE EXIT SIGNS AND EMERGENCY WALL PACKS AHEAD OF ALL SWITCHING.
4. REFER TO LIGHTING CONTROL DETAILS AND DIAGRAMS ON SHEETS E4.02, E4.03, E4.04, AND E4.05.

DRAWING NOTES CONTINUED

5. DAYLIGHT HARVESTING PHOTOCELLS "PCD" SHALL BE MOUNTED PER MANUFACTURERS RECOMMENDATIONS.
6. COORDINATE MOUNTING OF FIXTURE TYPE "C1-#" AND "C2-#" IN MECHANICAL ROOMS, ELECTRIC ROOM AND STORAGE ROOMS WITH MECHANICAL DUCTWORK AND PIPING PRIOR TO INSTALLATION. FIXTURES SHALL BE SURFACE OF CHAIN HUNG AS HIGH AS POSSIBLE WHILE MAINTAINING AN UNOBSTRUCTED PATH OF ILLUMINATION TO THE FLOOR.
7. COORDINATE LOCATION OF EXIT SIGN AND LIGHTING CONTROL STATION WITH ARCHITECT PRIOR TO INSTALLATION.
8. LOCATE FIXTURE TYPES "C3" IN SHAFT. COORDINATE MOUNTING OF ELEVATOR PIT FIXTURES WITH ELEVATOR MANUFACTURER PRIOR TO INSTALLATION. REFER TO ELEVATOR DETAILS ON FIRE ALARM DETAIL SHEET FOR ADDITIONAL INFORMATION.
9. REFER TO ELEVATOR MACHINE ROOM DETAIL.
10. INSTALL UL924 "E" EMERGENCY TRANSFER DEVICE AND LIGHTING CONTROL "GLPP" DEVICE IN AN ACCESSIBLE CEILING.
11. COORDINATE DAYLIGHT HARVESTING PHOTOCELL "PCD" FOR USE WITH FIXTURE TYPE "S5". LOCATE PER MANUFACTURERS RECOMMENDATION. COORDINATE MOUNTING OF "S5" FIXTURES WITH ARCHITECT PRIOR TO INSTALLATION. REFER TO ELEVATIONS.

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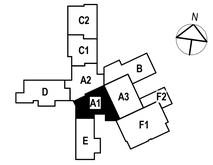

CONTENT:
SECOND FLOOR LIGHTING PLAN - AREA A1

DRAWN BY:	C. NEWELL
PROJECT NO:	12-067-00
DATE:	02/11/2016
REVISED:	
SCALE:	1/8" = 1'-0"

E1.20

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DRAWING NOTES

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2. REFER TO GENERAL NOTES, ELECTRICAL TRADE NOTES, LEGEND AND ABBREVIATIONS ON DRAWING E0.01.
3. WIRE EXIT SIGNS AND EMERGENCY WALL PACKS AHEAD OF ALL SWITCHING.
4. REFER TO LIGHTING CONTROL DETAILS AND DIAGRAMS ON SHEETS E4.02, E4.03, E4.04, AND E4.05.
5. DAYLIGHT HARVESTING PHOTOCELLS "PCD" SHALL BE MOUNTED PER MANUFACTURERS RECOMMENDATIONS.
6. COORDINATE MOUNTING OF FIXTURE TYPE "C1-4" AND "C2-4" IN MECHANICAL ROOMS, ELECTRIC ROOM AND STORAGE ROOMS WITH MECHANICAL DUCTWORK AND PIPING PRIOR TO INSTALLATION. FIXTURES SHALL BE SURFACE OF CHAIN HUNG AS HIGH AS POSSIBLE WHILE MAINTAINING AN UNOBSTRUCTED PATH OF ILLUMINATION TO THE FLOOR.
7. COORDINATE MOUNTING OF EXIT SIGN WITH ARCHITECT PRIOR TO INSTALLATION.
8. LOCATE FIXTURE TYPE "E" IN SHAFT. COORDINATE MOUNTING OF ELEVATOR FIXTURES WITH ELEVATOR MANUFACTURER PRIOR TO INSTALLATION. REFER TO ELEVATOR DETAILS ON FIRE ALARM DETAIL SHEET FOR ADDITIONAL INFORMATION.
9. COORDINATE MOUNTING OF FIXTURE TYPE "C2-#" IN DATA ROOM. WITH CABLE TRAY, MECHANICAL DUCTWORK AND PIPING PRIOR TO INSTALLATION. FIXTURES SHALL BE SURFACE OF CHAIN HUNG AS HIGH AS POSSIBLE WHILE MAINTAINING AN UNOBSTRUCTED PATH OF ILLUMINATION TO THE FLOOR.
10. INSTALL UL924 "E" EMERGENCY TRANSFER DEVICE AND LIGHTING CONTROL "GLPP" DEVICE IN AN ACCESSIBLE CEILING.
11. FIXTURE TYPE "C1-4" IN STORAGE ROOM SHALL BE WALL MOUNTED ABOVE DOOR +- 7'-10" AFF. COORDINATE MOUNTING OF FIXTURE WITH MECHANICAL DUCTWORK AND PIPING PRIOR TO INSTALLATION.
12. COORDINATE MOUNTING OF TYPE "U2" FIXTURES IN DISPLAYCASE WITH ARCHITECTURAL DETAILS PRIOR TO INSTALLATION. COORDINATE LOCATION OF REMOTE DRIVER/DIMMER PRIOR TO INSTALLATION. LOCATE DRIVER/DIMMER IN AN ACCESSIBLE LOCATION. DO NOT EXCEED MANUFACTURERS RECOMMENDED DISTANCE LIMITATIONS FOR LOW VOLTAGE POWER TO FIXTURES.
13. TYPE P1 FIXTURES, DIRECT OPTIC IS CONTROLLED SEPARATELY FROM THE INDIRECT OPTIC. EMERGENCY SHALL BE WIRED TO THE DIRECT OPTIC, TYPICAL. SEE CONTROL WIRING DIAGRM ON DRAWING E4.04.
14. COORDINATE MOUNTING HEIGHTS AND COORESPONDING PENDANT LENGTHS WITH ARCHITECTURAL ELEVATIONS AND DETAILS PRIOR TO ORDERING AND INSTALLATION.

1 LEVEL 2 - LIGHTING PLAN - AREA A2
1/8" = 1'-0"

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CONTENT:
SECOND FLOOR LIGHTING PLAN - AREA A2

DRAWN BY:	C. NEWELL
PROJECT NO:	12-067-00
DATE:	02/11/2016
REVISED:	
SCALE:	1/8" = 1'-0"

E1.21

Project Phase
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1 LEVEL 2 - LIGHTING PLAN - AREA A3
1/8" = 1'-0"

DRAWING NOTES

1. THE FOLLOWING NOTES ONLY APPLY TO THIS DRAWING.
2. REFER TO GENERAL NOTES, ELECTRICAL TRADE NOTES, LEGEND AND ABBREVIATIONS ON DRAWING E0.01.
3. WIRE EXIT SIGNS AND EMERGENCY WALL PACKS AHEAD OF ALL SWITCHING.
4. REFER TO LIGHTING CONTROL DETAILS AND DIAGRAMS ON SHEETS E4.02, E4.03, E4.04, AND E4.05.
5. DAYLIGHT HARVESTING PHOTOCELLS "PCD" SHALL BE MOUNTED PER MANUFACTURERS RECOMMENDATIONS.
6. COORDINATE MOUNTING OF FIXTURE TYPE "C1-#" AND "C2-#" IN MECHANICAL ROOMS, ELECTRIC ROOM AND STORAGE ROOMS WITH MECHANICAL DUCTWORK AND PIPING PRIOR TO INSTALLATION. FIXTURES SHALL BE SURFACE OF CHAIN HUNG AS HIGH AS POSSIBLE WHILE MAINTAINING AN UNOBSTRUCTED PATH OF ILLUMINATION TO THE FLOOR.
7. COORDINATE MOUNTING OF EXIT SIGN WITH ARCHITECT PRIOR TO INSTALLATION.
8. COORDINATE LOCATION OF LIGHTING CONTROL STATION WITH ARCHITECT PRIOR TO INSTALLATION.
9. COORDINATE MOUNTING OF TRACK LIGHT WITH ARCHITECT AND AV CONTRACTOR PRIOR TO INSTALLATION.
10. INSTALL UL924 "E" EMERGENCY TRANSFER DEVICE AND LIGHTING CONTROL "GLPP" DEVICE AIN ACCESSIBLE CEILING.
11. LOCATE DIMMING CONTROL MODULES ABOVE ACCESSIBLE CEILING LOCATION AND LABEL ACCORDINGLY.
12. PROVIDE WHIP AND CONNECTION FROM FLOOR BOX TO SEATING LIGHTING. COORDINATE REQUIREMENTS WITH SEATING MANUFACTURER PRIOR TO INSTALLATION.
13. TO DR1-91 VIA DATA ENABLER PRO UNIT, SEE DRAWING E1.12 (DRAWING NOTE 15).
14. TO DR1-92 VIA DATA ENABLER PRO UNIT, SEE DRAWING E1.12 (DRAWING NOTE 15).
15. TO DR1-93 VIA DATA ENABLER PRO UNIT, SEE DRAWING E1.12 (DRAWING NOTE 15).
16. TO DR1-94 VIA DATA ENABLER PRO UNIT, SEE DRAWING E1.12 (DRAWING NOTE 15).
17. TO DR1-95 VIA DATA ENABLER PRO UNIT, SEE DRAWING E1.12 (DRAWING NOTE 15).
18. TYPE H5-8 FIXTURES SHALL BE MOUNTED TIGHT TO UNDERSIDE OF DECK, CENTERED IN BAY (TYP.).
19. COORDINATE MOUNTING OF TYPE H7-# FIXTURES WITH ARCHITECTURAL PANEL DETAILS PRIOR TO INSTALLATION.
20. COORDINATE CIRCUITING, DMX CONTROL, AND RELAY CONFIGURATIONS WITH AV CONTRACTOR PRIOR TO INSTALLATION OF ANY CABLE OR CONDUIT.
21. COORDINATE MOUNTING OF TYPE H1 AND H2 FIXTURES WITH ARCHITECTURAL ELEVATIONS, REFLECTED CEILING PLANS, AND DETAILS. FIXTURES ARE TO BE PENDANT MOUNTED, TYPICAL.
22. TYPE H3 AND H5-4 FIXTURES ARE TO BE MOUNTED AT CATWALK. COORDINATE LOCATION WITH AV CONTRACTOR PRIOR TO INSTALLATION.
23. COORDINATE MOUNTING OF TYPE H3 AND H5-# FIXTURES AT LIGHT TOWERS WITH AV CONTRACTOR PRIOR TO INSTALLATION.
24. TO VERTICAL WALL MOUNTED A7-# FIXTURES, SEE DRAWING E1.31.

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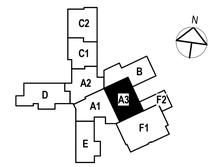

CONTENT:
SECOND FLOOR LIGHTING PLAN - AREA A3

DRAWN BY:	C. NEWELL
PROJECT NO:	12-067-00
DATE:	02/11/2016
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SCALE:	1/8" = 1'-0"

E1.22

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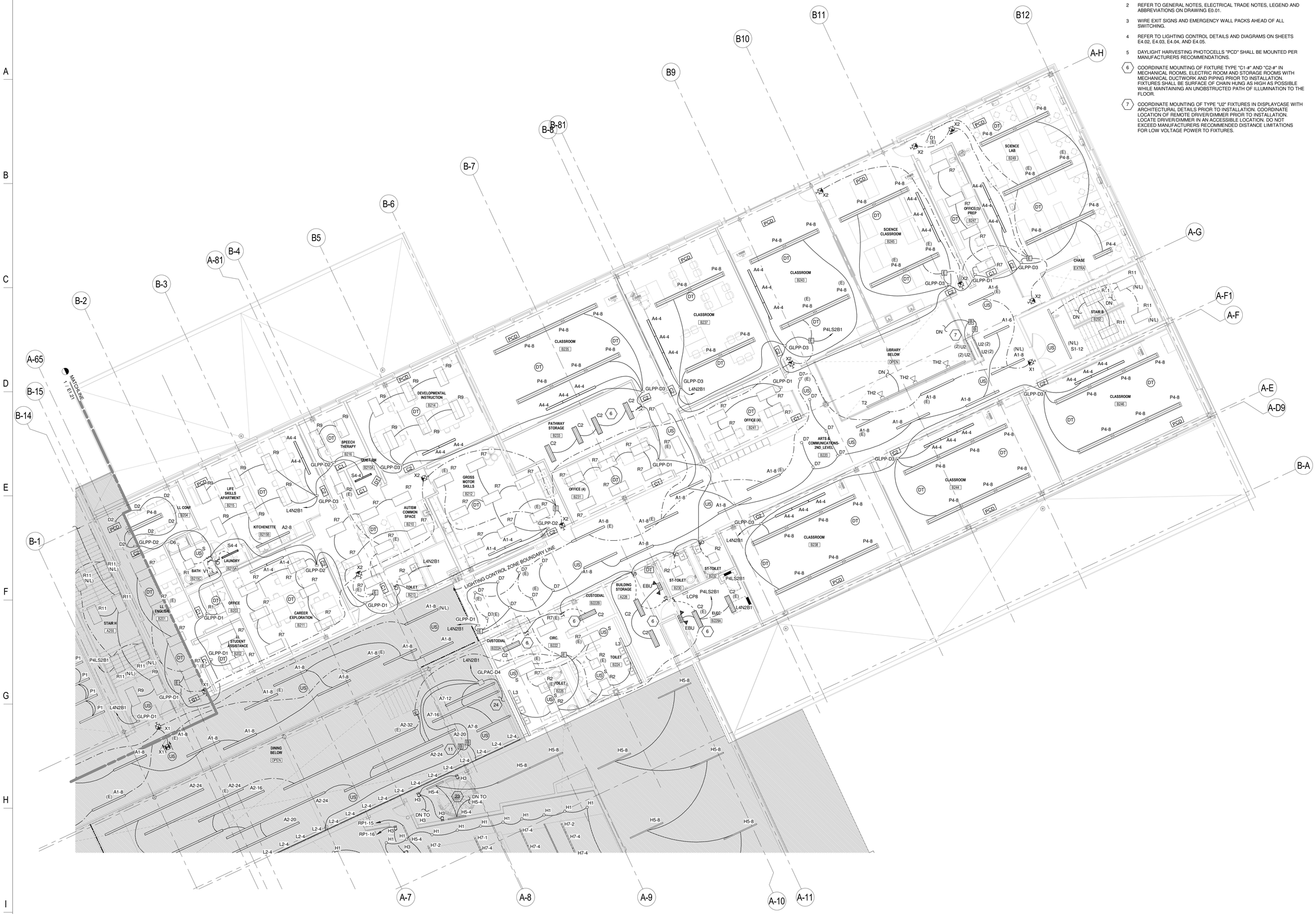
3. WIRE EXIT SIGNS AND EMERGENCY WALL PACKS AHEAD OF ALL SWITCHING.
4. REFER TO LIGHTING CONTROL DETAILS AND DIAGRAMS ON SHEETS E4.02, E4.03, E4.04, AND E4.05.
5. DAYLIGHT HARVESTING PHOTOCELLS "PCD" SHALL BE MOUNTED PER MANUFACTURERS RECOMMENDATIONS.

6. COORDINATE MOUNTING OF FIXTURE TYPE "C1-#" AND "C2-#" IN MECHANICAL ROOMS, ELECTRIC ROOM AND STORAGE ROOMS WITH MECHANICAL DUCTWORK AND PIPING PRIOR TO INSTALLATION. FIXTURES SHALL BE SURFACE OF CHAIN HUNG AS HIGH AS POSSIBLE WHILE MAINTAINING AN UNOBSTRUCTED PATH OF ILLUMINATION TO THE FLOOR.

7. COORDINATE MOUNTING OF TYPE "U2" FIXTURES IN DISPLAYCASE WITH ARCHITECTURAL DETAILS PRIOR TO INSTALLATION. COORDINATE LOCATION OF REMOTE DRIVER/DIMMER PRIOR TO INSTALLATION. LOCATE DRIVER/DIMMER IN AN ACCESSIBLE LOCATION. DO NOT EXCEED MANUFACTURERS RECOMMENDED DISTANCE LIMITATIONS FOR LOW VOLTAGE POWER TO FIXTURES.



1 LEVEL 2 - LIGHTING PLAN - AREA B
1/8" = 1'-0"

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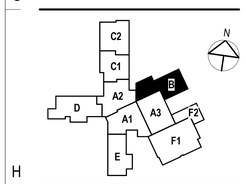

CONTENT:
SECOND FLOOR LIGHTING PLAN - AREA B

DRAWN BY:	C. NEWELL
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DATE:	02/11/2016
REVISED:	
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E1.23

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1 LEVEL 2 - LIGHTING PLAN - AREA C1
1/8" = 1'-0"

DRAWING NOTES

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4. REFER TO LIGHTING CONTROL DETAILS AND DIAGRAMS ON SHEETS E4.02, E4.03, E4.04, AND E4.05.
5. DAYLIGHT HARVESTING PHOTOCELLS "PCD" SHALL BE MOUNTED PER MANUFACTURERS RECOMMENDATIONS.
6. COORDINATE MOUNTING OF FIXTURE TYPE "C1-8" AND "C2-8" IN MECHANICAL ROOMS, ELECTRIC ROOM AND STORAGE ROOMS WITH MECHANICAL DUCTWORK AND PIPING PRIOR TO INSTALLATION. FIXTURES SHALL BE SURFACE OF CHAIN HUNG AS HIGH AS POSSIBLE WHILE MAINTAINING AN UNOBSTRUCTED PATH OF ILLUMINATION TO THE FLOOR.
7. COORDINATE MOUNTING OF EXIT SIGN WITH ARCHITECT PRIOR TO INSTALLATION.
8. NOT USED YET
9. COORDINATE MOUNTING OF FIXTURE TYPE "C2-8" IN DATA ROOM, WITH CABLE TRAY, MECHANICAL DUCTWORK AND PIPING PRIOR TO INSTALLATION. FIXTURES SHALL BE SURFACE OF CHAIN HUNG AS HIGH AS POSSIBLE WHILE MAINTAINING AN UNOBSTRUCTED PATH OF ILLUMINATION TO THE FLOOR.
10. INSTALL UL924 "E" EMERGENCY TRANSFER DEVICE AND LIGHTING CONTROL "GLPP" DEVICE IN AN ACCESSIBLE CEILING.

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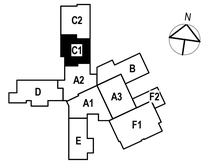

CONTENT:
SECOND FLOOR LIGHTING PLAN - AREA C1

DRAWN BY:	C. NEWELL
PROJECT NO:	12-067-00
DATE:	02/11/2016
REVISED:	
SCALE:	1/8" = 1'-0"

E1.24

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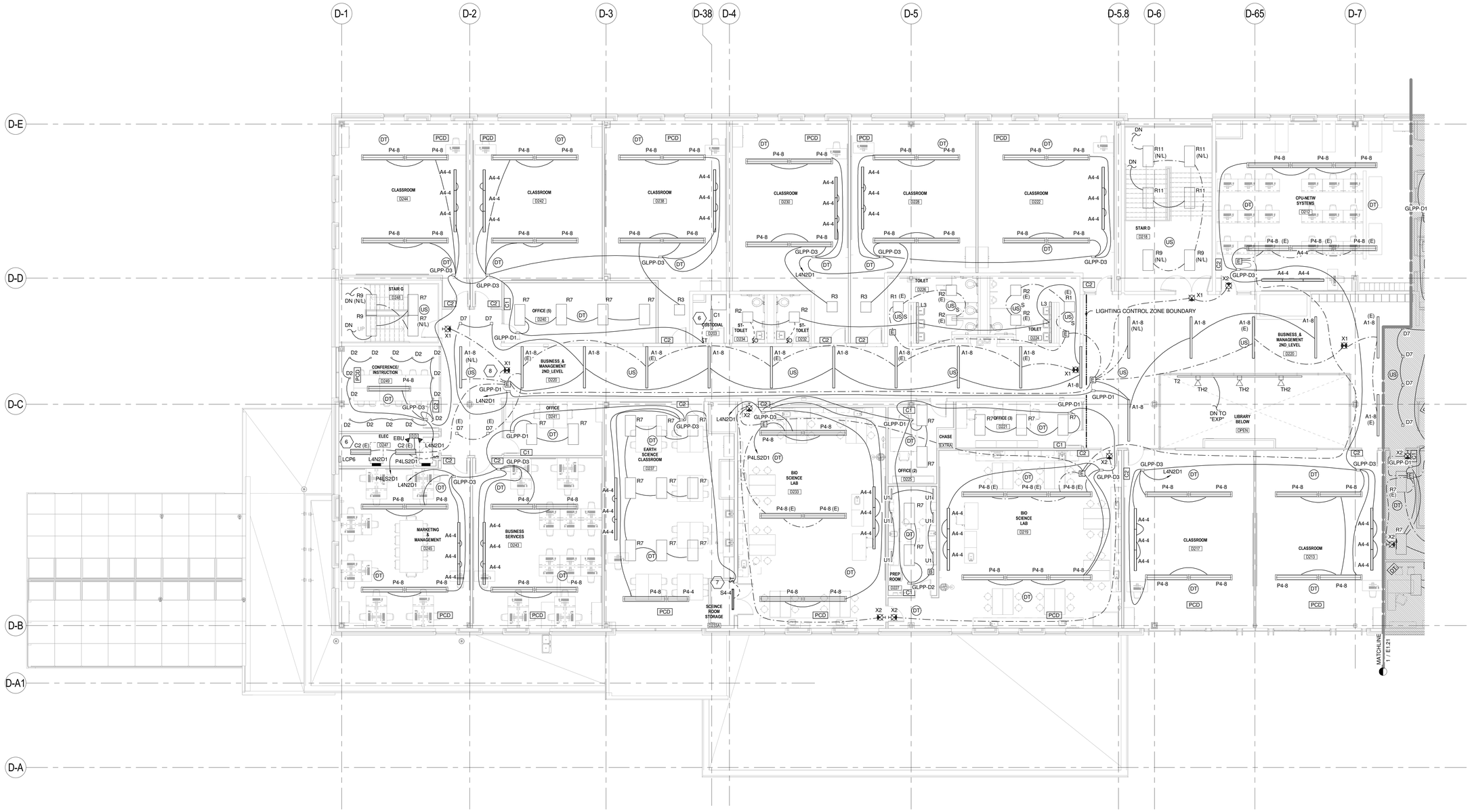
4. REFER TO LIGHTING CONTROL DETAILS AND DIAGRAMS ON SHEETS E4.02, E4.03, E4.04, AND E4.05.
5. DAYLIGHT HARVESTING PHOTOCELLS "PCD" SHALL BE MOUNTED PER MANUFACTURERS RECOMMENDATIONS.

(6) COORDINATE MOUNTING OF FIXTURE TYPE "C1-#" AND "C2-#" IN MECHANICAL ROOMS, ELECTRIC ROOM AND STORAGE ROOMS WITH MECHANICAL DUCTWORK AND PIPING PRIOR TO INSTALLATION. FIXTURES SHALL BE SURFACE OF CHAIN HUNG AS HIGH AS POSSIBLE WHILE MAINTAINING AN UNOBSTRUCTED PATH OF ILLUMINATION TO THE FLOOR.

(7) FIXTURE TYPE "S4-4" IN STORAGE ROOM SHALL BE WALL MOUNTED ABOVE DOOR +- 7'-10" AFF. COORDINATE MOUNTING OF FIXTURE WITH MECHANICAL DUCTWORK AND PIPING PRIOR TO INSTALLATION.

(8) INSTALL UL924 "E" EMERGENCY TRANSFER DEVICE AND LIGHTING CONTROL "GLPP" DEVICE IN ELECTRIC ROOM OR AN ACCESSIBLE CEILING.



1 LEVEL 2 - LIGHTING PLAN - AREA D
1/8" = 1'-0"

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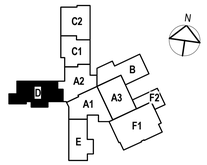

CONTENT:
SECOND FLOOR LIGHTING PLAN - AREA D

DRAWN BY:	C. NEWELL
PROJECT NO:	12-067-00
DATE:	02/11/2016
REVISED:	
SCALE:	1/8" = 1'-0"

E1.26

Project Phase
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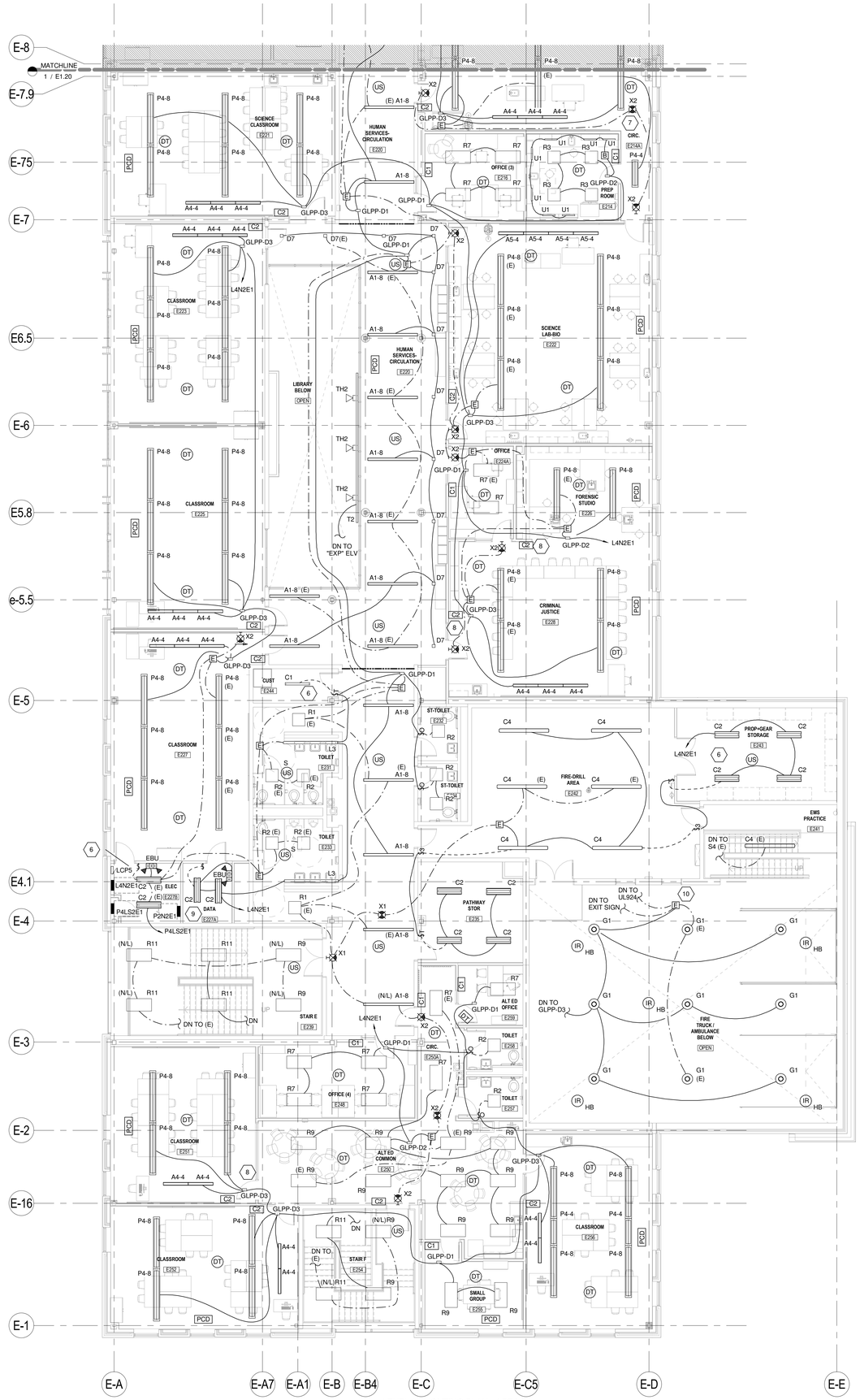

1 LEVEL 2 - LIGHTING PLAN - AREA E
1/8" = 1'-0"

DRAWING NOTES

1. THE FOLLOWING NOTES ONLY APPLY TO THIS DRAWING.
2. REFER TO GENERAL NOTES, ELECTRICAL TRADE NOTES, LEGEND AND ABBREVIATIONS ON DRAWING E0.01.
3. WIRE EXIT SIGNS AND EMERGENCY WALL PACKS AHEAD OF ALL SWITCHING.
4. REFER TO LIGHTING CONTROL DETAILS AND DIAGRAMS ON SHEETS E4.02, E4.03, E4.04, AND E4.05.
5. DAYLIGHT HARVESTING PHOTOCELLS "PCD" SHALL BE MOUNTED PER MANUFACTURERS RECOMMENDATIONS.
6. COORDINATE MOUNTING OF FIXTURE TYPE "C1-8" AND "C2-8" IN MECHANICAL ROOMS, ELECTRIC ROOM AND STORAGE ROOMS WITH MECHANICAL DUCTWORK AND PIPING PRIOR TO INSTALLATION. FIXTURES SHALL BE SURFACE OF CHAIN HUNG AS HIGH AS POSSIBLE WHILE MAINTAINING AN UNOBSTRUCTED PATH OF ILLUMINATION TO THE FLOOR.
7. COORDINATE MOUNTING OF EXIT SIGN WITH ARCHITECT PRIOR TO INSTALLATION.
8. COORDINATE LOCATION OF LIGHTING CONTROL STATION WITH ARCHITECT PRIOR TO INSTALLATION.
9. COORDINATE MOUNTING OF FIXTURE TYPE "C2-8" IN DATA ROOM, WITH CABLE TRAY, MECHANICAL DUCTWORK AND PIPING PRIOR TO INSTALLATION. FIXTURES SHALL BE SURFACE OF CHAIN HUNG AS HIGH AS POSSIBLE WHILE MAINTAINING AN UNOBSTRUCTED PATH OF ILLUMINATION TO THE FLOOR.
10. INSTALL UL924 "E" EMERGENCY TRANSFER DEVICE AND LIGHTING CONTROL "GLPP" DEVICE IN ELECTRIC ROOM OR AN ACCESSIBLE CEILING.

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SANFORD, ME 04073

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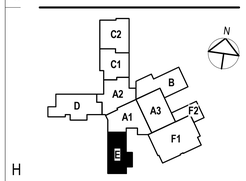

CONTENT:
SECOND FLOOR LIGHTING PLAN - AREA E

DRAWN BY:	C. NEWELL
PROJECT NO:	12-067-00
DATE:	02/11/2016
REVISED:	
SCALE:	1/8" = 1'-0"

E1.27

Project Phase
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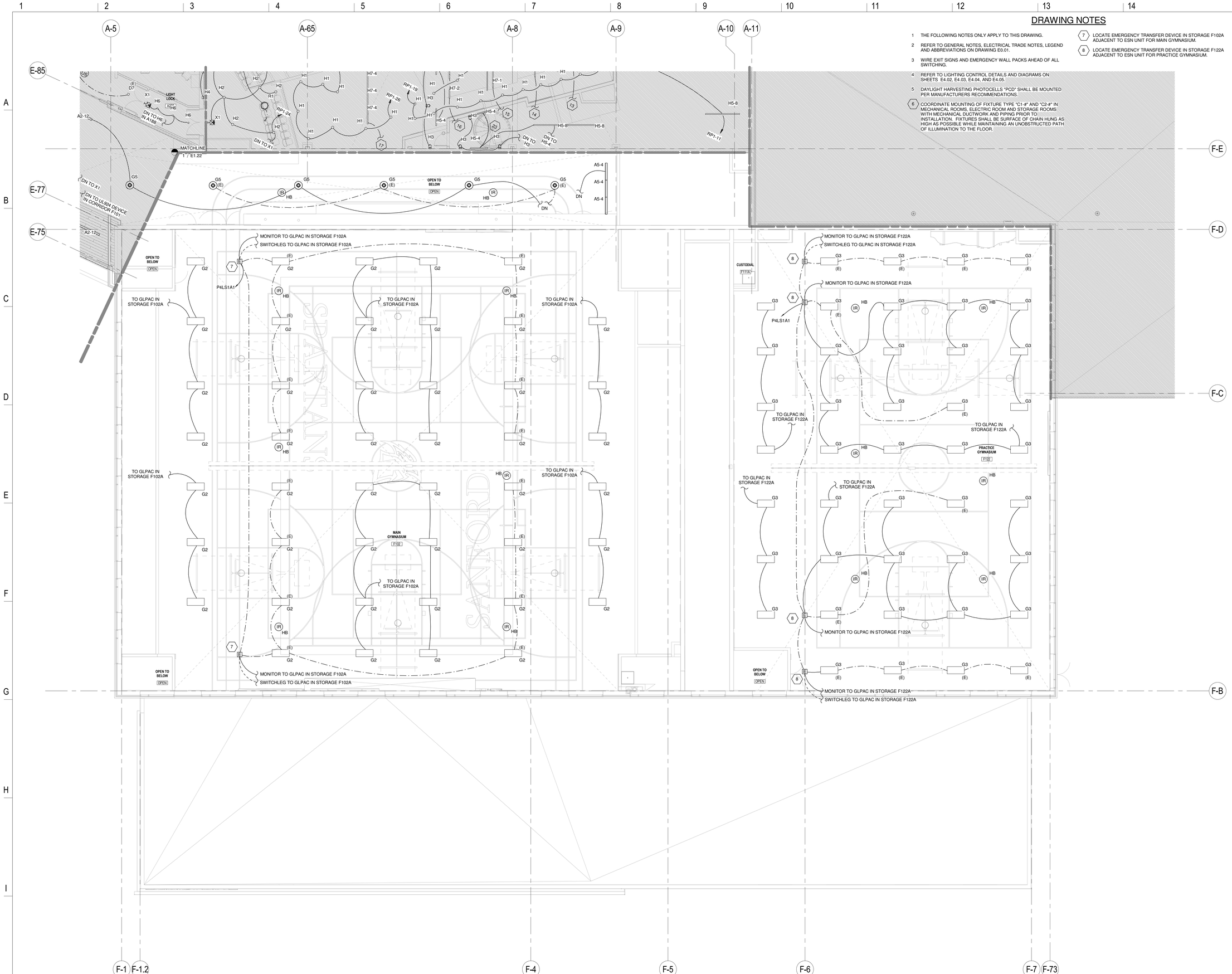
DRAWING NOTES

1. THE FOLLOWING NOTES ONLY APPLY TO THIS DRAWING.
2. REFER TO GENERAL NOTES, ELECTRICAL TRADE NOTES, LEGEND AND ABBREVIATIONS ON DRAWING E0.01.
3. WIRE EXIT SIGNS AND EMERGENCY WALL PACKS AHEAD OF ALL SWITCHING.
4. REFER TO LIGHTING CONTROL DETAILS AND DIAGRAMS ON SHEETS E4.02, E4.03, E4.04, AND E4.05.
5. DAYLIGHT HARVESTING PHOTOCELLS "PCD" SHALL BE MOUNTED PER MANUFACTURERS RECOMMENDATIONS.
6. COORDINATE MOUNTING OF FIXTURE TYPE "C1-#" AND "C2-#" IN MECHANICAL ROOMS, ELECTRIC ROOM AND STORAGE ROOMS WITH MECHANICAL DUCTWORK AND PIPING PRIOR TO INSTALLATION. FIXTURES SHALL BE SURFACE OF CHAIN HUNG AS HIGH AS POSSIBLE WHILE MAINTAINING AN UNOBSTRUCTED PATH OF ILLUMINATION TO THE FLOOR.
7. LOCATE EMERGENCY TRANSFER DEVICE IN STORAGE F102A ADJACENT TO ESN UNIT FOR MAIN GYMNASIUM.
8. LOCATE EMERGENCY TRANSFER DEVICE IN STORAGE F122A ADJACENT TO ESN UNIT FOR PRACTICE GYMNASIUM.



1 LEVEL 2 - LIGHTING PLAN - AREA F1
1/8" = 1'-0"

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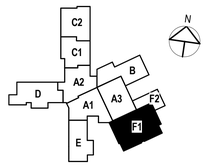

CONTENT:
SECOND FLOOR LIGHTING PLAN - AREA F1

DRAWN BY:	C. NEWELL
PROJECT NO:	12-067-00
DATE:	02/11/2016
REVISED:	
SCALE:	1/8" = 1'-0"

E1.28

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DRAWING NOTES

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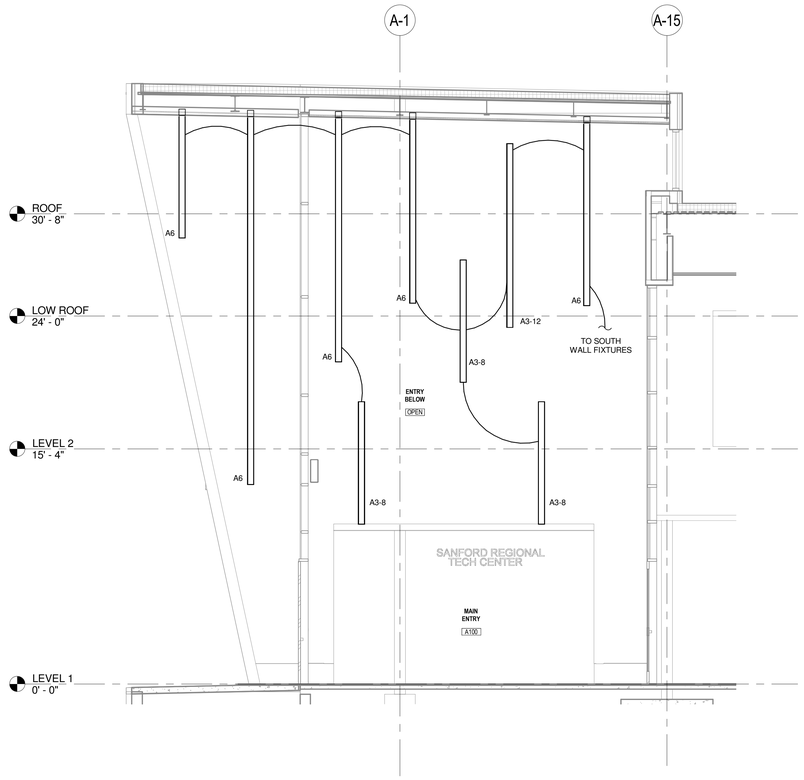
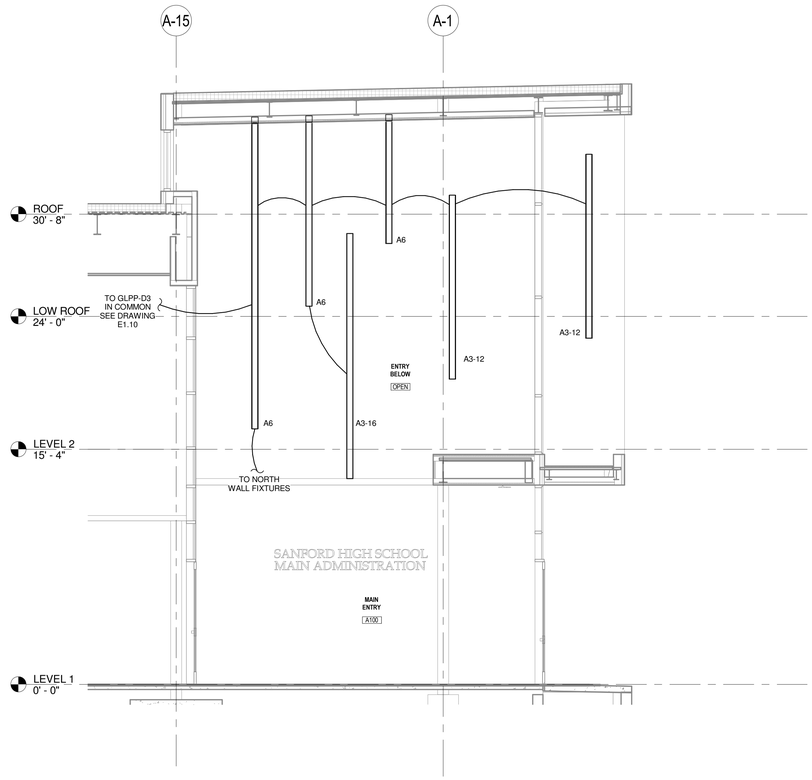
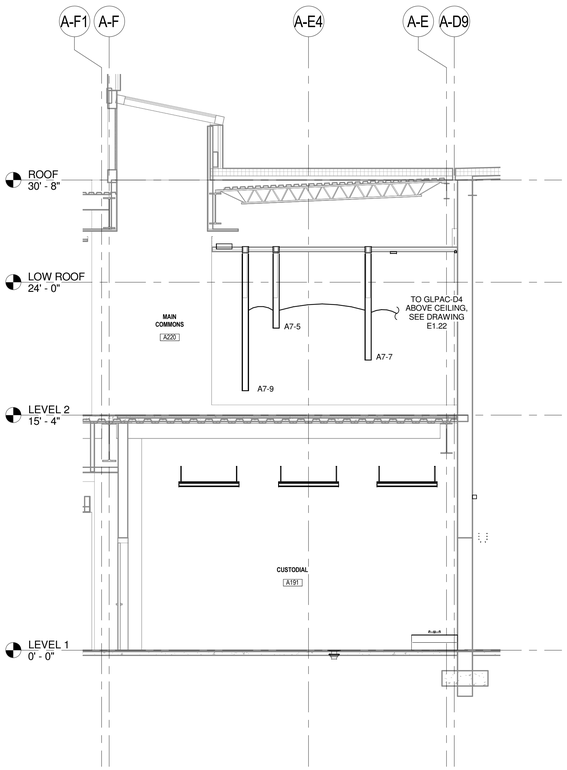
2. REFER TO GENERAL NOTES, ELECTRICAL TRADE NOTES, LEGEND AND ABBREVIATIONS ON DRAWING E0.01.
3. REFER TO ARCHITECTURAL ELEVATIONS AND DETAILS FOR FIXTURE LOCATIONS AND LENGTHS.



1 LIGHTING SECTION - MAIN ENTRY - A100 - NORTH WALL - AREA A1
1/4" = 1'-0"



2 LIGHTING SECTION - MAIN ENTRY - A100 - SOUTH WALL - AREA A1
1/4" = 1'-0"



3 LIGHTING SECTION - OPEN STEPPED PRESENTATION AREA - A121A - EAST WALL - AREA A3
1/4" = 1'-0"

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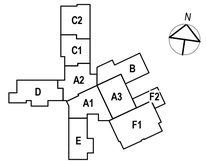

CONTENT:
LIGHTING SECTIONS

DRAWN BY:	C. NEWELL
PROJECT NO:	12-067-00
DATE:	02/11/2016
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E1.31

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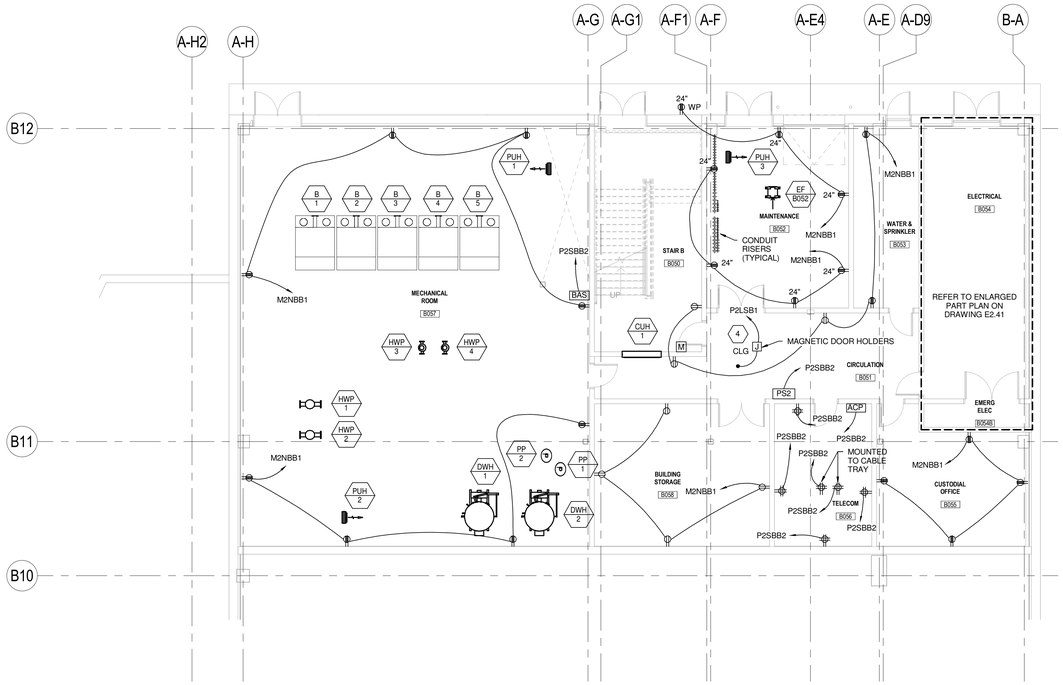
1. THE FOLLOWING NOTES ONLY APPLY TO THIS DRAWING.
2. REFER TO GENERAL NOTES, ELECTRICAL TRADE NOTES, LEGEND AND ABBREVIATIONS ON DRAWING E0.01.
3. FOR TYPICAL ELEVATOR/FIRE ALARM CONTROL WIRING DIAGRAM, REFER TO DRAWING FA2.01.
4. CONTRACTOR SHALL PROVIDE 2#10&1#10G IN ¾" CONDUIT (120V) FROM PANEL P2LSB1 TO A JUNCTION BOX IN THIS VICINITY, AND FROM THE JB OUT TO ALL MAGNETIC DOOR HOLD-OPENS IN BASEMENT AND AREA B (BOTH FLOORS).



1 BASEMENT - POWER PLAN
1/8" = 1'-0"

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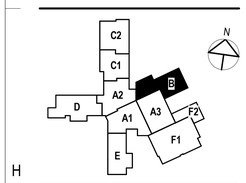

CONTENT:
BASEMENT POWER PLAN

DRAWN BY:	C. NEWELL
PROJECT NO:	12-067-00
DATE:	02/11/2016
REVISED:	
SCALE:	1/8" = 1'-0"

E2.09

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1 LEVEL 1 - POWER PLAN - AREA A1
1/8" = 1'-0"

DRAWING NOTES
(A-F1)

1. THE FOLLOWING NOTES ONLY APPLY TO THIS DRAWING.
2. REFER TO GENERAL NOTES, ELECTRICAL TRADE NOTES, LEGEND AND ABBREVIATIONS ON DRAWING E0.01.
3. FOR TYPICAL ELEVATOR/FIRE ALARM CONTROL WIRING DIAGRAM, REFER TO DRAWING FA2.01.
4. PROVIDE CONNECTION TO FIRE ALARM SYSTEM FOR SHUTDOWN OF EQUIPMENT.
5. REFER TO DRAWING T3.02 FOR INTERACTIVE WHITE BOARD OUTLET LAYOUT DETAIL. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATION OF INTERACTIVE WHITE BOARDS PRIOR TO THE INSTALLATION OF ANY CABLE OR CONDUIT.
6. CONTRACTOR SHALL PROVIDE 2#10&1#10G IN ¾" CONDUIT FROM PANEL P2S1A1 TO JUNCTION BOX (120V) FOR CONNECTION OF DAMPERS (IN THIS AREA A1 VICINITY BOTH FIRST AND SECOND FLOORS). CONNECT ALL SMOKE DAMPERS ASSOCIATED WITH ROOFTOP UNIT DHU-12 ON ONE CIRCUIT. FOR LOCATION OF DAMPERS, REFER TO FIRE ALARM DRAWINGS.
7. CONTRACTOR SHALL PROVIDE 2#10&1#10G IN ¾" CONDUIT (120V) FROM PANEL P2LS1B1 TO A JUNCTION BOX IN THIS VICINITY, AND FROM THE JB OUT TO ALL MAGNETIC DOOR HOLD-OPENS IN AREAS A1, A2 AND C1 (BOTH FLOORS).
8. REFER TO ARCHITECTURAL DRAWINGS, PLANS AND ELEVATIONS, FOR EXACT LOCATIONS OF WALL-MOUNTED EQUIPMENT AND LIGHTING IN THE MAIN LOBBY.

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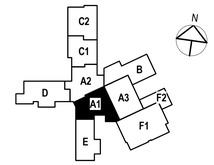

CONTENT:
FIRST FLOOR POWER PLAN - AREA A1

DRAWN BY:	C. NEWELL
PROJECT NO:	12-067-00
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SCALE:	1/8" = 1'-0"

E2.10

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DRAWING NOTES

1. THE FOLLOWING NOTES ONLY APPLY TO THIS DRAWING.
2. REFER TO GENERAL NOTES, ELECTRICAL TRADE NOTES, LEGEND AND ABBREVIATIONS ON DRAWING E0.01.
3. FOR TYPICAL ELEVATOR/FIRE ALARM CONTROL WIRING DIAGRAM, REFER TO DRAWING FA2.01.
4. REFER TO DRAWING T3.02 FOR INTERACTIVE WHITE BOARD OUTLET LAYOUT DETAIL. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATION OF INTERACTIVE WHITE BOARDS PRIOR TO THE INSTALLATION OF ANY CABLE OR CONDUIT.

1 LEVEL 1 - POWER PLAN - AREA A2
1/8" = 1'-0"

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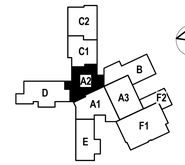

CONTENT:
FIRST FLOOR POWER PLAN - AREA A2

DRAWN BY:	C. NEWELL
PROJECT NO:	12-067-00
DATE:	02/11/2016
REVISED:	
SCALE:	1/8" = 1'-0"

E2.11

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1 LEVEL 1 - POWER PLAN - AREA A3
1/8" = 1'-0"

DRAWING NOTES

1. THE FOLLOWING NOTES ONLY APPLY TO THIS DRAWING.
2. REFER TO GENERAL NOTES, ELECTRICAL TRADE NOTES, LEGEND AND ABBREVIATIONS ON DRAWING E0.01.
3. FOR TYPICAL ELEVATOR/FIRE ALARM CONTROL WIRING DIAGRAM, REFER TO DRAWING FA2.01.
4. PROVIDE SIX (6) 120V CIRCUITS TO "PP" FROM PANEL INDICATED.
5. PROVIDE FEED TO RP1 FROM FUSED DISCONNECT SWITCH T-DS ON WALL. FOR FURTHER INFORMATION, REFER TO ONE-LINE DIAGRAM.
6. PROVIDE FEED TO DR1 FROM CIRCUIT BREAKER CB1 ON WALL. FOR FURTHER INFORMATION, REFER TO ONE-LINE DIAGRAM.
7. PROVIDE 12" X 12" WIREWAY (6-FEET LONG, MIN.) MOUNTED BELOW THEATER EQUIPMENT AT THIS LOCATION FOR MANAGEMENT OF WIRING, BY OTHERS.
8. FLOOR BOXES SHALL BE MOUNTED ON EACH STEP. REFER TO SECTION ON DRAWING E2.81 FOR MORE INFORMATION.
9. REFER TO DRAWING T3.02 FOR INTERACTIVE WHITE BOARD OUTLET LAYOUT DETAIL. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATION OF INTERACTIVE WHITE BOARDS PRIOR TO THE INSTALLATION OF ANY CABLE OR CONDUIT.

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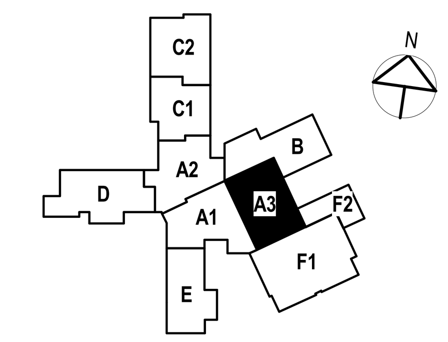

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CONTENT:
FIRST FLOOR POWER PLAN - AREA A3

DRAWN BY: C. NEWELL
PROJECT NO: 12-067-00
DATE: 02/11/2016
REVISED:
SCALE: 1/8" = 1'-0"

E2.12

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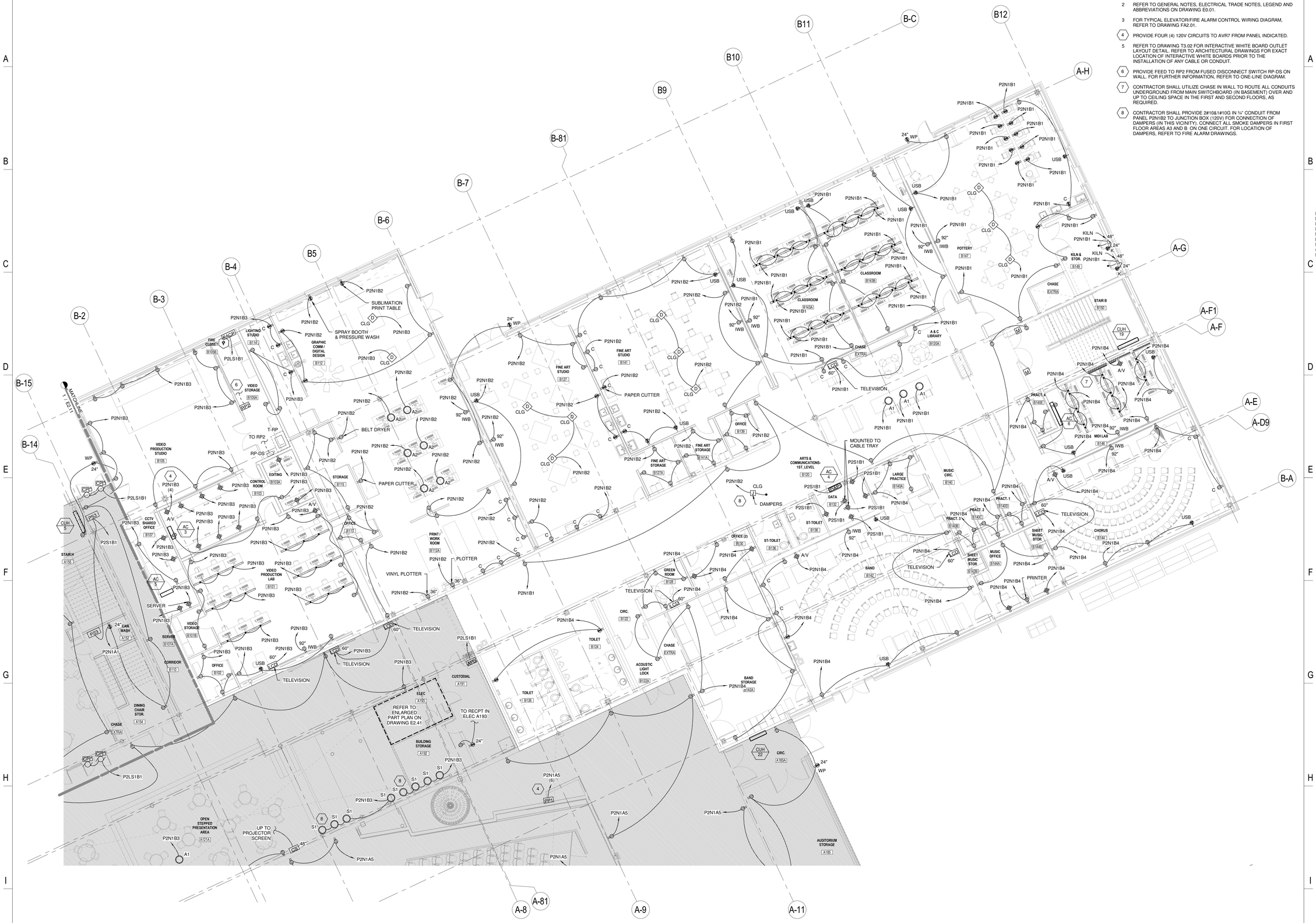
DRAWING NOTES

1. THE FOLLOWING NOTES ONLY APPLY TO THIS DRAWING.
2. REFER TO GENERAL NOTES, ELECTRICAL TRADE NOTES, LEGEND AND ABBREVIATIONS ON DRAWING E0.01.
3. FOR TYPICAL ELEVATOR/FIRE ALARM CONTROL WIRING DIAGRAM, REFER TO DRAWING FA2.01.
4. PROVIDE FOUR (4) 120V CIRCUITS TO AVR7 FROM PANEL INDICATED.
5. REFER TO DRAWING T3.02 FOR INTERACTIVE WHITE BOARD OUTLET LAYOUT DETAIL. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATION OF INTERACTIVE WHITE BOARDS PRIOR TO THE INSTALLATION OF ANY CABLE OR CONDUIT.
6. PROVIDE FEED TO RP2 FROM FUSED DISCONNECT SWITCH RP-DS ON WALL. FOR FURTHER INFORMATION, REFER TO ONE-LINE DIAGRAM.
7. CONTRACTOR SHALL UTILIZE CHASE IN WALL TO ROUTE ALL CONDUITS UNDERGROUND FROM MAIN SWITCHBOARD (IN BASEMENT) OVER AND UP TO CEILING SPACE IN THE FIRST AND SECOND FLOORS, AS REQUIRED.
8. CONTRACTOR SHALL PROVIDE 2#10&1#10G IN ¾" CONDUIT FROM PANEL P2N1B2 TO JUNCTION BOX (120V) FOR CONNECTION OF DAMPERS (IN THIS VICINITY). CONNECT ALL SMOKE DAMPERS IN FIRST FLOOR AREAS A3 AND B .ON ONE CIRCUIT. FOR LOCATION OF DAMPERS, REFER TO FIRE ALARM DRAWINGS.



1 LEVEL 1 - POWER PLAN - AREA B
1/8" = 1'-0"

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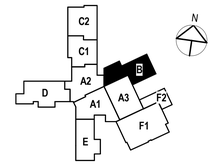
RFS Project #: 7300.001
STATE OF MAINE CHRISTOPHER M. RUSHWAY No. 16697 LICENSED PROFESSIONAL ENGINEER

Sanford School Department and State of Maine Department of Education

SANFORD HIGH SCHOOL and TECHNICAL CENTER

SANFORD, ME 04073

NO.	DESCRIPTION	DATE



CONTENT:
FIRST FLOOR POWER PLAN - AREA B

DRAWN BY:	C. NEWELL
PROJECT NO:	12-067-00
DATE:	02/11/2016
REVISED:	
SCALE:	1/8" = 1'-0"

E2.13

Project Phase
BID DOCUMENTS

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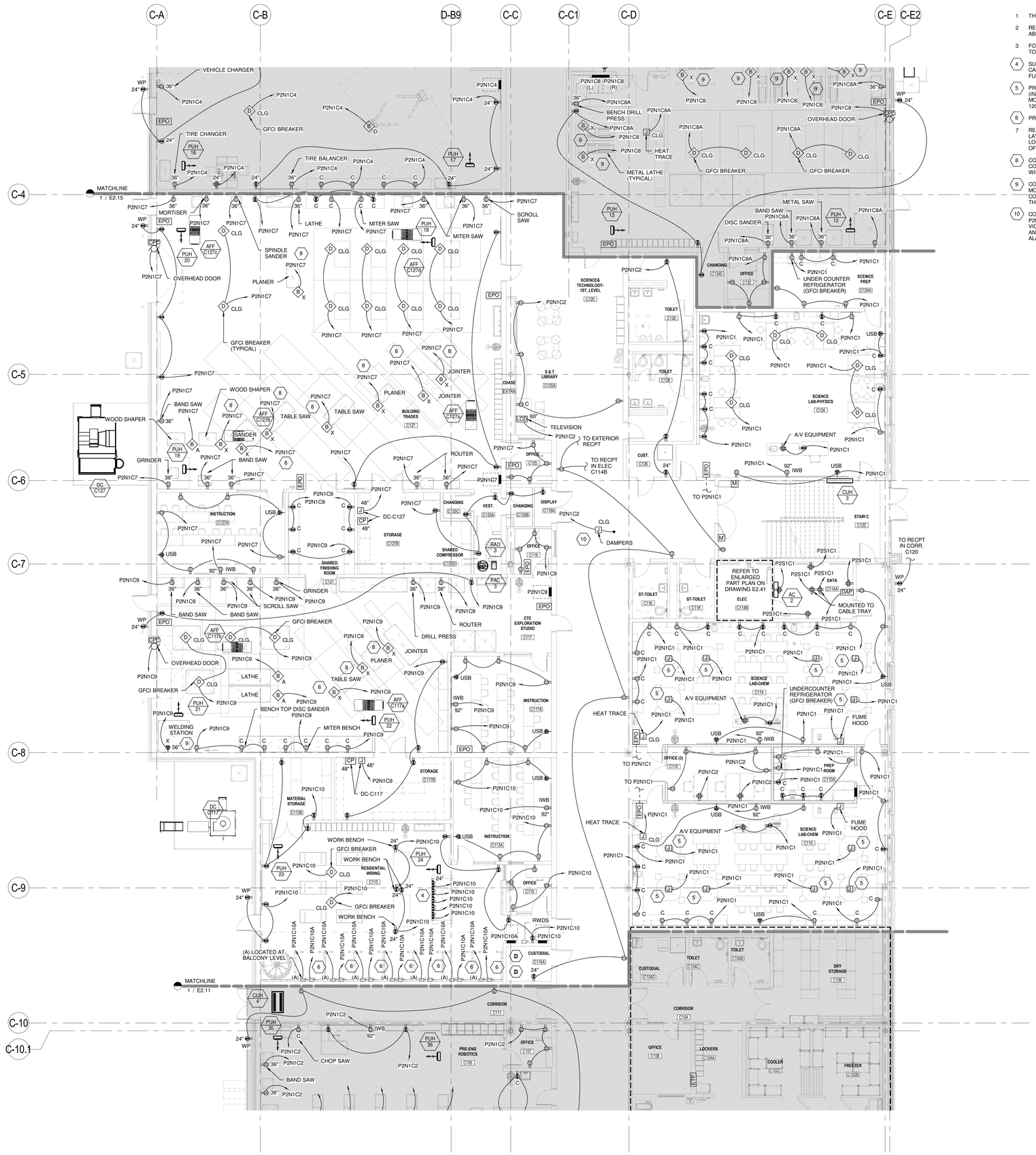

1 LEVEL 1 - POWER PLAN - AREA C1
1/8" = 1'-0"

DRAWING NOTES

1. THE FOLLOWING NOTES ONLY APPLY TO THIS DRAWING.
2. REFER TO GENERAL NOTES, ELECTRICAL TRADE NOTES, LEGEND AND ABBREVIATIONS ON DRAWING E0.01.
3. FOR TYPICAL ELEVATOR/FIRE ALARM CONTROL WIRING DIAGRAM, REFER TO DRAWING FA2.01.
4. SURFACE RACEWAY FOR TOOL CHARGING SHALL BE LOCATED INSIDE CABINET. COORDINATE EXACT MOUNTING REQUIREMENTS WITH THE FURNITURE.
5. PROVIDE CONDUIT STUBBED UP THROUGH THE SLAB INTO THE BOTTOM (INSIDE) THE BENCH TO A JUNCTION BOX. FEED FOUR (4) BENCH-MOUNTED RECEPTACLES (FACTORY INSTALLED ON THE SIDES) ON THE 120V CIRCUIT.
6. PROVIDE 3#10&1#10G-3/4"C FROM DISCONNECT SWITCH TO PANEL.
7. REFER TO DRAWING T3.02 FOR INTERACTIVE WHITE BOARD OUTLET LAYOUT DETAIL. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATION OF INTERACTIVE WHITE BOARDS PRIOR TO THE INSTALLATION OF ANY CABLE OR CONDUIT.
8. CONTRACTOR SHALL PROVIDE BUS DROP CABLE (12-4, W/GRD) WITH CORD CAP, AS REQUIRED, TO POWER MACHINE. COORDINATE EXACT WIRE AND CAP IN THE FIELD WITH THE EQUIPMENT.
9. CONTRACTOR SHALL PROVIDE 4#6&1#10G IN 1" CONDUIT WITH WALL-MOUNTED RECEPTACLE, AS REQUIRED, TO POWER WELDER. COORDINATE EXACT CIRCUIT CONDUCTORS AND RECEPTACLE TYPE IN THE FIELD WITH THE EQUIPMENT.
10. CONTRACTOR SHALL PROVIDE 2#10&1#10G IN ¾" CONDUIT FROM PANEL P2N1C2 TO JUNCTION BOX (120V) FOR CONNECTION OF DAMPERS (IN THIS VICINITY). CONNECT ALL SMOKE DAMPERS IN FIRST FLOOR AREAS A2, C1 AND C2 ON ONE CIRCUIT. FOR LOCATION OF DAMPERS, REFER TO FIRE ALARM DRAWINGS.

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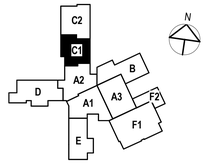
RFS Project #: 7300.001
STATE OF MAINE CHRISTOPHER M. SHUMWAY No. 10697 LICENSED PROFESSIONAL ENGINEER

Sanford School Department and State of Maine Department of Education

SANFORD HIGH SCHOOL and TECHNICAL CENTER

SANFORD, ME 04073

NO.	DESCRIPTION	DATE



CONTENT:
FIRST FLOOR POWER PLAN - AREA C1

DRAWN BY:	C. NEWELL
PROJECT NO:	12-067-00
DATE:	02/11/2016
REVISED:	
SCALE:	1/8" = 1'-0"

E2.14

Project Phase
BID DOCUMENTS

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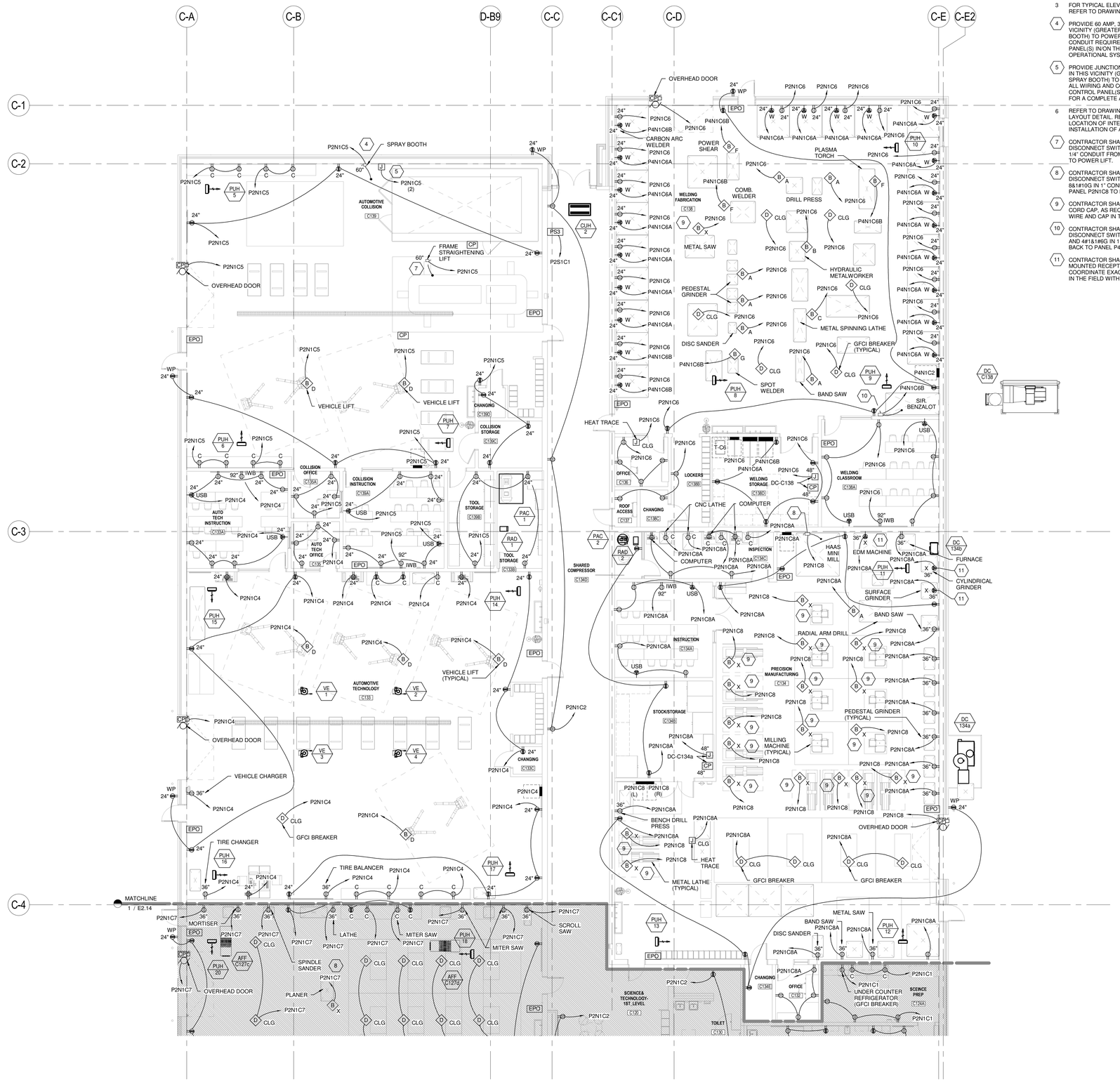

1 LEVEL 1 - POWER PLAN - AREA C2
1/8" = 1'-0"

DRAWING NOTES

1. THE FOLLOWING NOTES ONLY APPLY TO THIS DRAWING.
2. REFER TO GENERAL NOTES, ELECTRICAL TRADE NOTES, LEGEND AND ABBREVIATIONS ON DRAWING E0.01.
3. FOR TYPICAL ELEVATOR/FIRE ALARM CONTROL WIRING DIAGRAM, REFER TO DRAWING FA2.01.
4. PROVIDE 60 AMP, 3-POLE DISCONNECT SWITCH MOUNTED IN THIS VICINITY (GREATER THAN 3-FEET FROM THE OPEN DOORS OF SPRAY BOOTH) TO POWER SPRAY BOOTH. PROVIDE ALL WIRING AND CONDUIT REQUIRED FROM THE DISCONNECT TO THE MAIN CONTROL PANEL(S) IN/ON THE BOOTH, AND CONNECT FOR A COMPLETE AND OPERATIONAL SYSTEM.
5. PROVIDE JUNCTION BOX WITH TWO (2) 120-VOLT CIRCUITS MOUNTED IN THIS VICINITY (GREATER THAN 3-FEET FROM THE OPEN DOORS OF SPRAY BOOTH) TO POWER SPRAY BOOTH LIGHTING, ETC. PROVIDE ALL WIRING AND CONDUIT REQUIRED FROM THE BOX TO THE MAIN CONTROL PANEL(S), LIGHTS, ETC., IN/ON THE BOOTH, AND CONNECT FOR A COMPLETE AND OPERATIONAL SYSTEM.
6. REFER TO DRAWING T3.02 FOR INTERACTIVE WHITE BOARD OUTLET LAYOUT DETAIL. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATION OF INTERACTIVE WHITE BOARDS PRIOR TO THE INSTALLATION OF ANY CABLE OR CONDUIT.
7. CONTRACTOR SHALL PROVIDE 60 AMP, 250VAC, 3-POLE FUSED DISCONNECT SWITCH, LOCATED AS INDICATED, AND 4#6&1#10G IN 1 1/4" CONDUIT FROM THE DISCONNECT SWITCH BACK TO PANEL P2N1C5 TO POWER LIFT.
8. CONTRACTOR SHALL PROVIDE 60 AMP, 250VAC, 3-POLE FUSED DISCONNECT SWITCH (FUSED AT 35A), LOCATED AS INDICATED, AND 4#8&1#10G IN 1" CONDUIT FROM THE DISCONNECT SWITCH BACK TO PANEL P2N1C8 TO POWER MILL.
9. CONTRACTOR SHALL PROVIDE BUS DROP CABLE (12-4, W/GRD) WITH CORD CAP, AS REQUIRED, TO POWER MACHINE. COORDINATE EXACT WIRE AND CAP IN THE FIELD WITH THE EQUIPMENT.
10. CONTRACTOR SHALL PROVIDE 100 AMP, 600VAC, 3-POLE FUSED DISCONNECT SWITCH (FUSED AS REQUIRED), LOCATED AS INDICATED, AND 4#1&1#6G IN 1 1/2" CONDUIT FROM THE DISCONNECT SWITCH BACK TO PANEL P4N1C6B TO POWER PRESS.
11. CONTRACTOR SHALL PROVIDE 4#10&1#10G IN 3/4" CONDUIT WITH WALL-MOUNTED RECEPTACLE, AS REQUIRED, TO POWER EQUIPMENT. COORDINATE EXACT CIRCUIT CONDUCTORS AND RECEPTACLE TYPE IN THE FIELD WITH THE EQUIPMENT.

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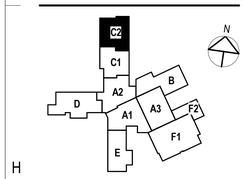

CONTENT:
FIRST FLOOR POWER PLAN - AREA C2

DRAWN BY:	C. NEWELL
PROJECT NO:	12-067-00
DATE:	02/11/2016
REVISED:	
SCALE:	1/8" = 1'-0"

E2.15

Project Phase
BID DOCUMENTS

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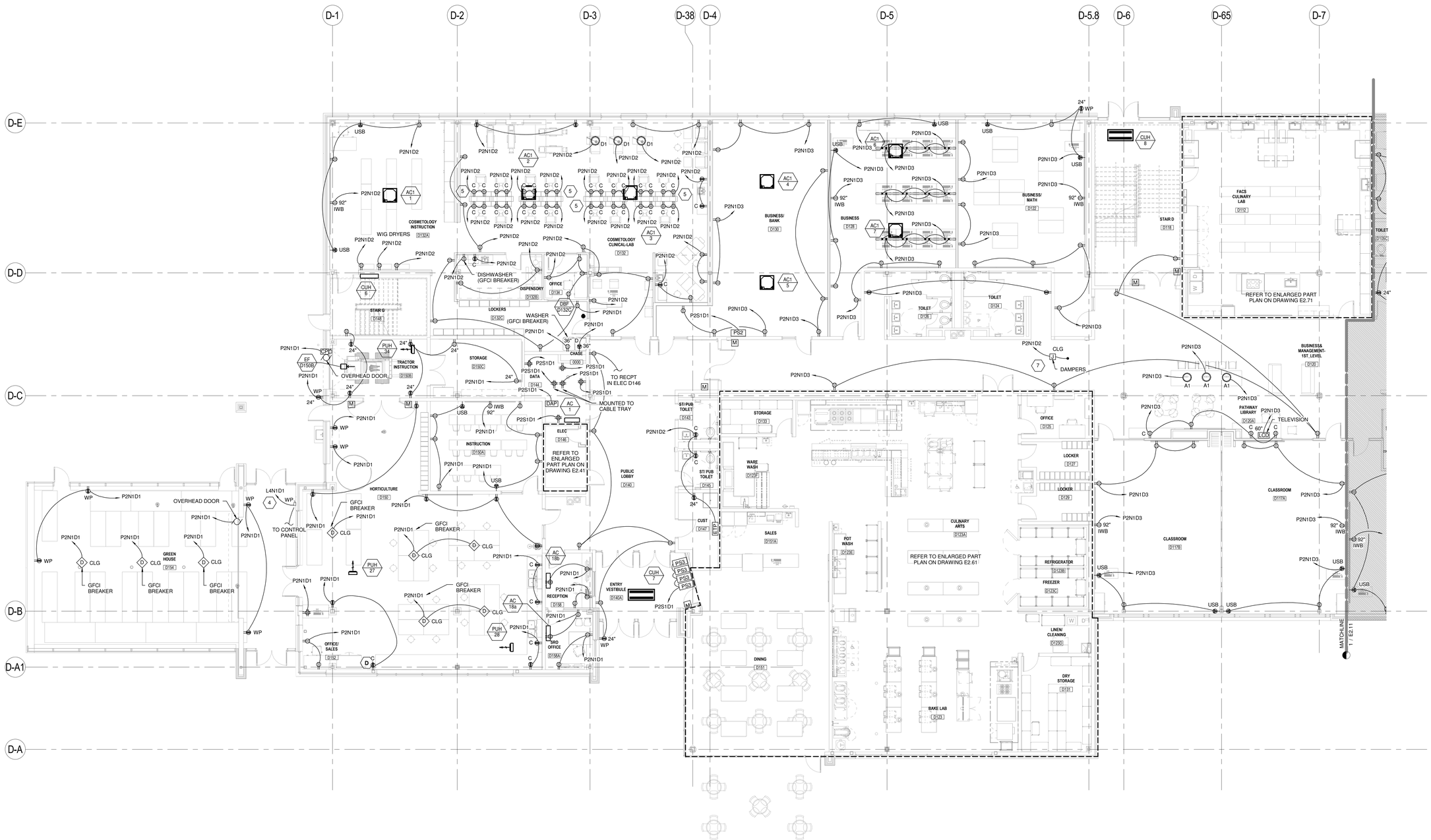
DRAWING NOTES

1. THE FOLLOWING NOTES ONLY APPLY TO THIS DRAWING.
2. REFER TO GENERAL NOTES, ELECTRICAL TRADE NOTES, LEGEND AND ABBREVIATIONS ON DRAWING E0.01.
3. FOR TYPICAL ELEVATOR/FIRE ALARM CONTROL WIRING DIAGRAM, REFER TO DRAWING FA2.01.
4. PROVIDE 100A, 3-POLE, 600VAC WP DISCONNECT SWITCH ON THE LINE SIDE OF THE GREENHOUSE MASTER CONTROL PANEL (480VAC). PROVIDE 4#1&1#6G IN 1 ½" CONDUIT FROM PANEL IN ELECTRIC ROOM TO FEED THE SWITCH. PROVIDE ALL POWER AND CONTROL WIRING, AND CONDUIT, REQUIRED TO PROPERLY CONNECT CIRCUITS FROM THE CONTROL PANEL TO ALL GREENHOUSE ACCESSORIES, INCLUDING LIGHTING, POWER SHADES, MOTORS, PUMPS, ETC., FOR A COMPLETE AND OPERATIONAL GREENHOUSE SYSTEM.
5. CONDUITS TO SALON STATIONS SHALL BE STUBBED UP THROUGH THE FLOOR TO THE UNIT DEVICES.
6. REFER TO DRAWING T3.02 FOR INTERACTIVE WHITE BOARD OUTLET LAYOUT DETAIL. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATION OF INTERACTIVE WHITE BOARDS PRIOR TO THE INSTALLATION OF ANY CABLE OR CONDUIT.
7. CONTRACTOR SHALL PROVIDE 2#10&1#10G IN ¾" CONDUIT FROM PANEL P2N1D2 TO JUNCTION BOX (120V) FOR CONNECTION OF DAMPERS (IN THIS VICINITY). CONNECT ALL SMOKE DAMPERS IN FIRST FLOOR AREA D ON ONE CIRCUIT. FOR LOCATION OF DAMPERS, REFER TO FIRE ALARM DRAWINGS.



1 LEVEL 1 - POWER PLAN - AREA D
1/8" = 1'-0"

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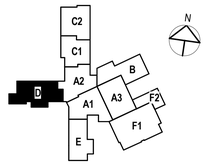

CONTENT:
FIRST FLOOR POWER PLAN - AREA D

DRAWN BY:	C. NEWELL
PROJECT NO:	12-067-00
DATE:	02/11/2016
REVISED:	
SCALE:	1/8" = 1'-0"

E2.16

Project Phase
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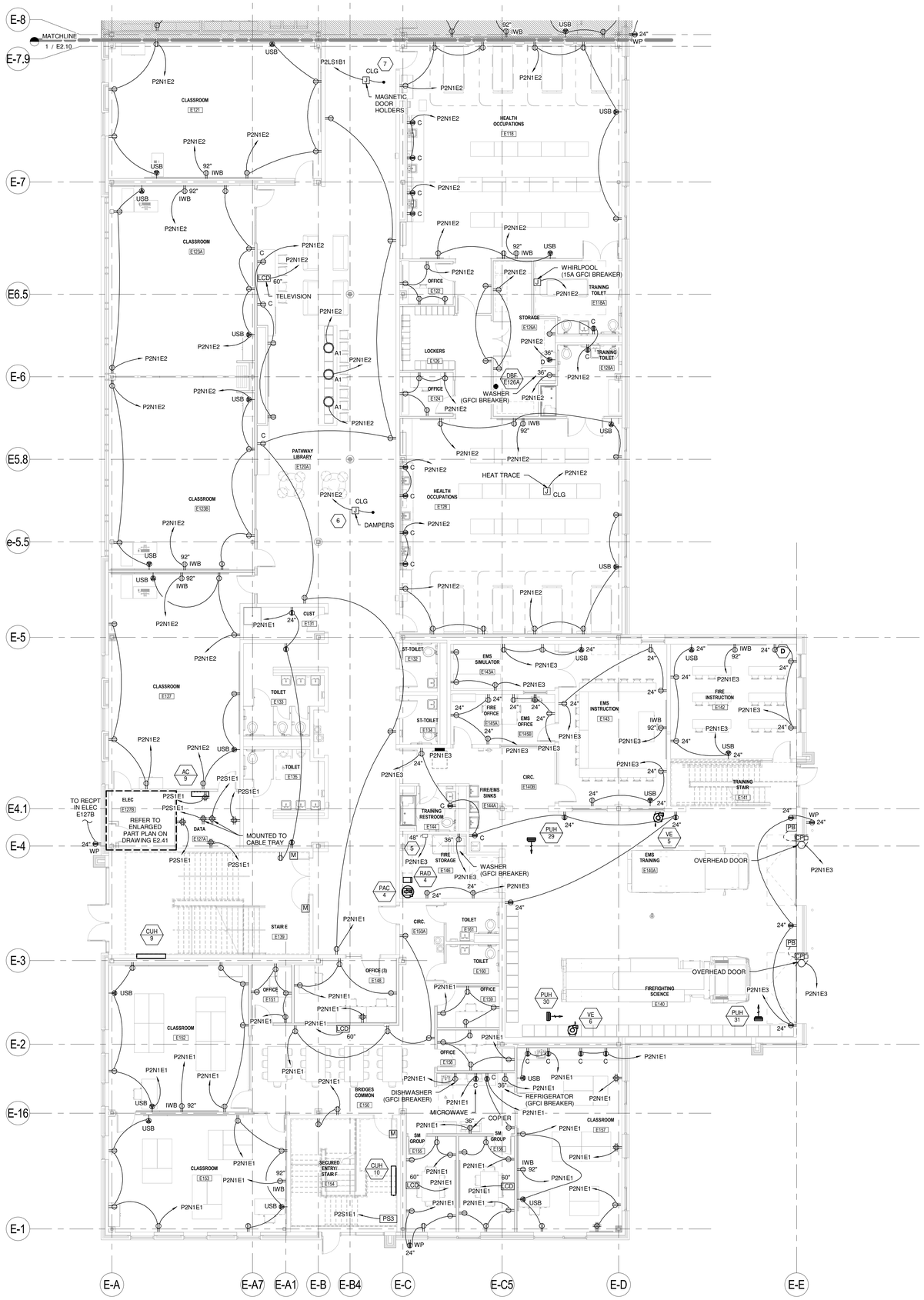

1 LEVEL 1 - POWER PLAN - AREA E
1/8" = 1'-0"

DRAWING NOTES

1 THE FOLLOWING NOTES ONLY APPLY TO THIS DRAWING.

2 REFER TO GENERAL NOTES, ELECTRICAL TRADE NOTES, LEGEND AND ABBREVIATIONS ON DRAWING E0.01.

3 FOR TYPICAL ELEVATOR/FIRE ALARM CONTROL WIRING DIAGRAM, REFER TO DRAWING FA2.01.

4 REFER TO DRAWING T3.02 FOR INTERACTIVE WHITE BOARD OUTLET LAYOUT DETAIL. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATION OF INTERACTIVE WHITE BOARDS PRIOR TO THE INSTALLATION OF ANY CABLE OR CONDUIT.

5 CONTRACTOR SHALL PROVIDE 100 AMP, 250VAC, 3-POLE FUSED DISCONNECT SWITCH ON THE WALL FOR FUTURE SCUBA COMPRESSOR BY OWNER. PROVIDE EMPTY 1 1/2" CONDUIT FROM THE DISCONNECT SWITCH BACK TO PANEL P2N1E3 FOR FUTURE USE BY OTHERS.

6 CONTRACTOR SHALL PROVIDE 2#10&1#10G IN ¾" CONDUIT FROM PANEL P2N1E2 TO JUNCTION BOX (120V) FOR CONNECTION OF DAMPERS (IN THIS VICINITY). CONNECT ALL SMOKE DAMPERS IN FIRST FLOOR AREA E. ON ONE CIRCUIT. FOR LOCATION OF DAMPERS, REFER TO FIRE ALARM DRAWINGS.

7 CONTRACTOR SHALL PROVIDE 2#10&1#10G IN ¾" CONDUIT (120V) FROM PANEL P2LS1B1 TO A JUNCTION BOX IN THIS VICINITY, AND FROM THE JB OUT TO ALL MAGNETIC DOOR HOLD-OPENS IN AREAS D AND E (BOTH FLOORS).

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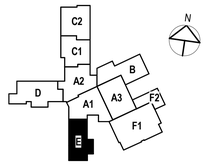

CONTENT:
FIRST FLOOR POWER PLAN - AREA E

DRAWN BY:	C. NEWELL
PROJECT NO:	12-067-00
DATE:	02/11/2016
REVISED:	
SCALE:	1/8" = 1'-0"

E2.17

Project Phase
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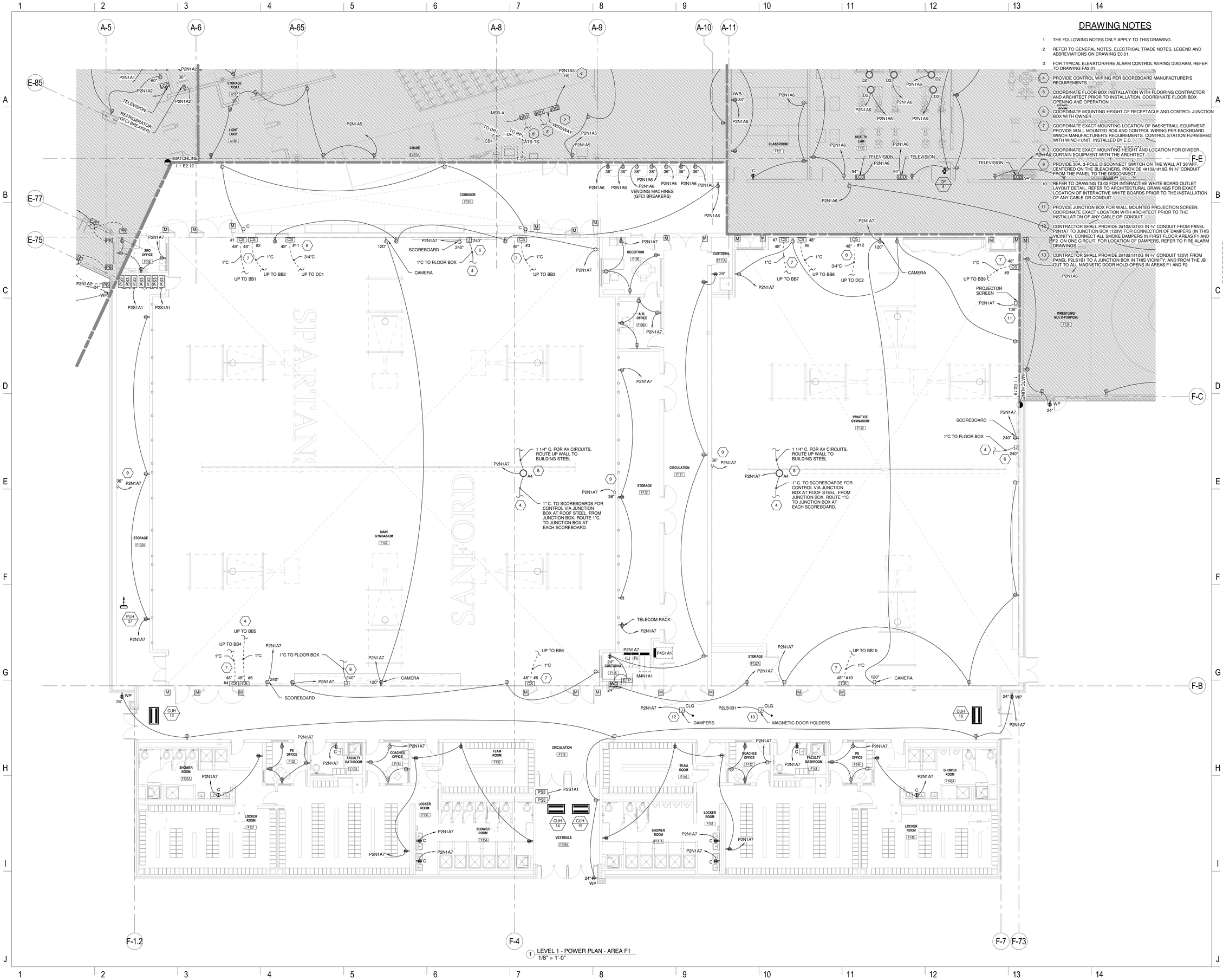

1 LEVEL 1 - POWER PLAN - AREA F1
1/8" = 1'-0"

DRAWING NOTES

1. THE FOLLOWING NOTES ONLY APPLY TO THIS DRAWING.
2. REFER TO GENERAL NOTES, ELECTRICAL TRADE NOTES, LEGEND AND ABBREVIATIONS ON DRAWING E0.01.
3. FOR TYPICAL ELEVATOR/FIRE ALARM CONTROL WIRING DIAGRAM, REFER TO DRAWING FA2.01.
4. PROVIDE CONTROL WIRING PER SCOREBOARD MANUFACTURER'S REQUIREMENTS.
5. COORDINATE FLOOR BOX INSTALLATION WITH FLOORING CONTRACTOR AND ARCHITECT PRIOR TO INSTALLATION. COORDINATE FLOOR BOX OPENING AND OPERATION.
6. COORDINATE MOUNTING HEIGHT OF RECEPTACLE AND CONTROL JUNCTION BOX WITH OWNER.
7. COORDINATE EXACT MOUNTING LOCATION OF BASKETBALL EQUIPMENT. PROVIDE WALL MOUNTED BOX AND CONTROL WIRING PER BACKBOARD WINCH MANUFACTURER'S REQUIREMENTS. CONTROL STATION FURNISHED WITH WINCH UNIT, INSTALLED BY E.C.
8. COORDINATE EXACT MOUNTING HEIGHT AND LOCATION FOR DIVIDER CURTAIN EQUIPMENT WITH THE ARCHITECT.
9. PROVIDE 30A, 3-POLE DISCONNECT SWITCH ON THE WALL AT 36"AFF, CENTERED ON THE BLEACHERS. PROVIDE 4#10&1#10G IN ¾" CONDUIT FROM THE PANEL TO THE DISCONNECT.
10. REFER TO DRAWING T3.02 FOR INTERACTIVE WHITE BOARD OUTLET LAYOUT DETAIL. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATION OF INTERACTIVE WHITE BOARDS PRIOR TO THE INSTALLATION OF ANY CABLE OR CONDUIT.
11. PROVIDE JUNCTION BOX FOR WALL MOUNTED PROJECTION SCREEN. COORDINATE EXACT LOCATION WITH ARCHITECT PRIOR TO THE INSTALLATION OF ANY CABLE OR CONDUIT.
12. CONTRACTOR SHALL PROVIDE 2#10&1#10G IN ¾" CONDUIT FROM PANEL P2N1A7 TO JUNCTION BOX (120V) FOR CONNECTION OF DAMPERS (IN THIS VICINITY). CONNECT ALL SMOKE DAMPERS IN FIRST FLOOR AREAS F1 AND F2 ON ONE CIRCUIT. FOR LOCATION OF DAMPERS, REFER TO FIRE ALARM DRAWINGS.
13. CONTRACTOR SHALL PROVIDE 2#10&1#10G IN ¾" CONDUIT 120V) FROM PANEL P2LS1B1 TO A JUNCTION BOX IN THIS VICINITY, AND FROM THE JB OUT TO ALL MAGNETIC DOOR HOLD-OPENS IN AREAS F1 AND F2.

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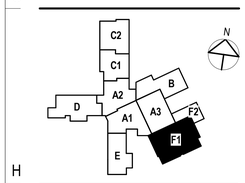

CONTENT:
FIRST FLOOR POWER PLAN - AREA F1

DRAWN BY:	C. NEWELL
PROJECT NO:	12-067-00
DATE:	02/11/2016
REVISED:	
SCALE:	1/8" = 1'-0"

E2.18

Project Phase
BID DOCUMENTS

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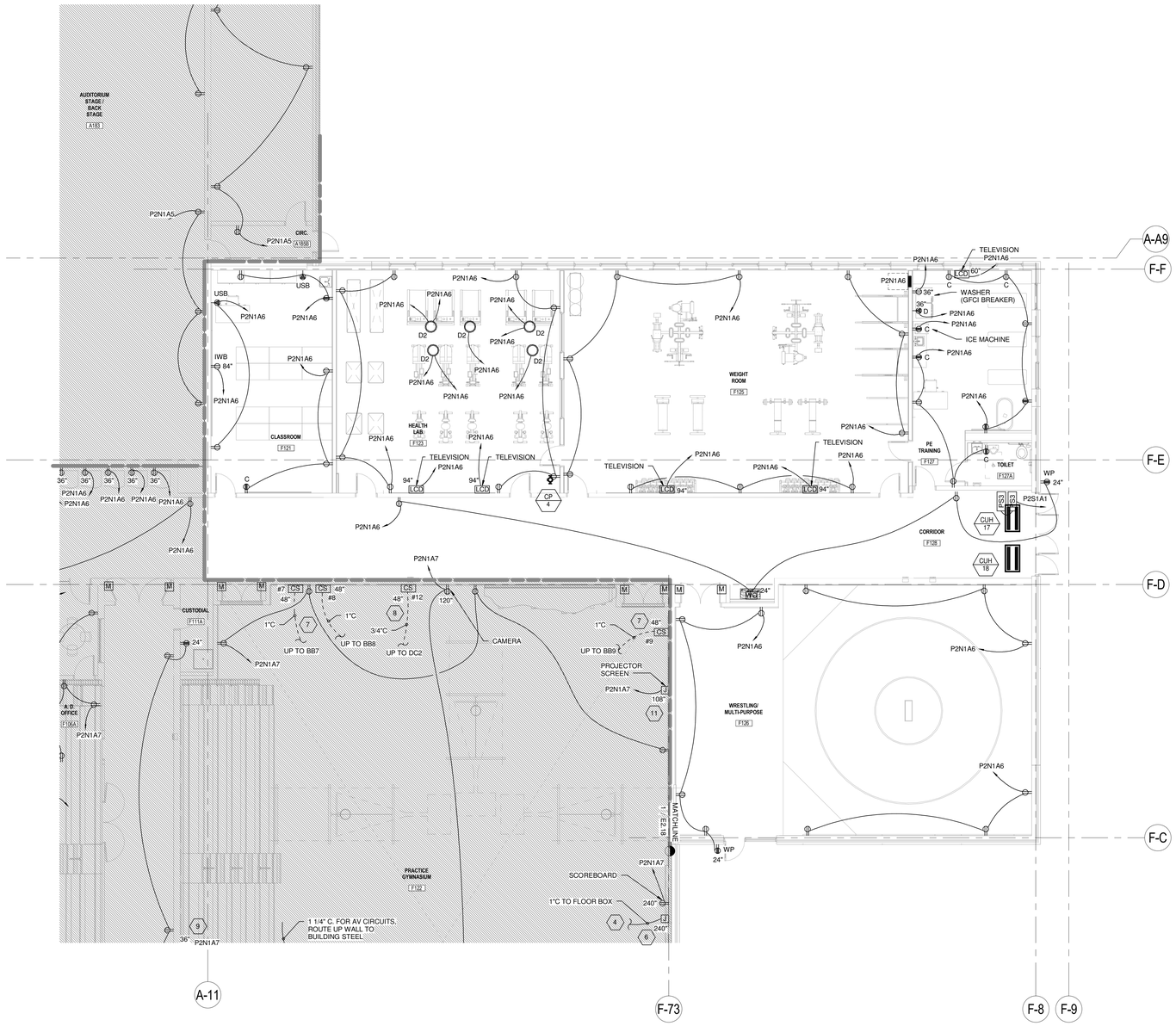
DRAWING NOTES

1. THE FOLLOWING NOTES ONLY APPLY TO THIS DRAWING.
2. REFER TO GENERAL NOTES, ELECTRICAL TRADE NOTES, LEGEND AND ABBREVIATIONS ON DRAWING E0.01.
3. FOR TYPICAL ELEVATOR/FIRE ALARM CONTROL WIRING DIAGRAM, REFER TO DRAWING FA2.01.
4. REFER TO DRAWING T3.02 FOR INTERACTIVE WHITE BOARD OUTLET LAYOUT DETAIL. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATION OF INTERACTIVE WHITE BOARDS PRIOR TO THE INSTALLATION OF ANY CABLE OR CONDUIT.



1 LEVEL 1 - POWER PLAN - AREA F2
1/8" = 1'-0"

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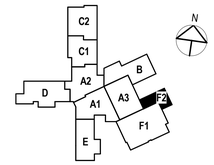

CONTENT:
FIRST FLOOR POWER PLAN - AREA F2

DRAWN BY:	C. NEWELL
PROJECT NO:	12-067-00
DATE:	02/11/2016
REVISED:	
SCALE:	1/8" = 1'-0"

E2.19

Project Phase
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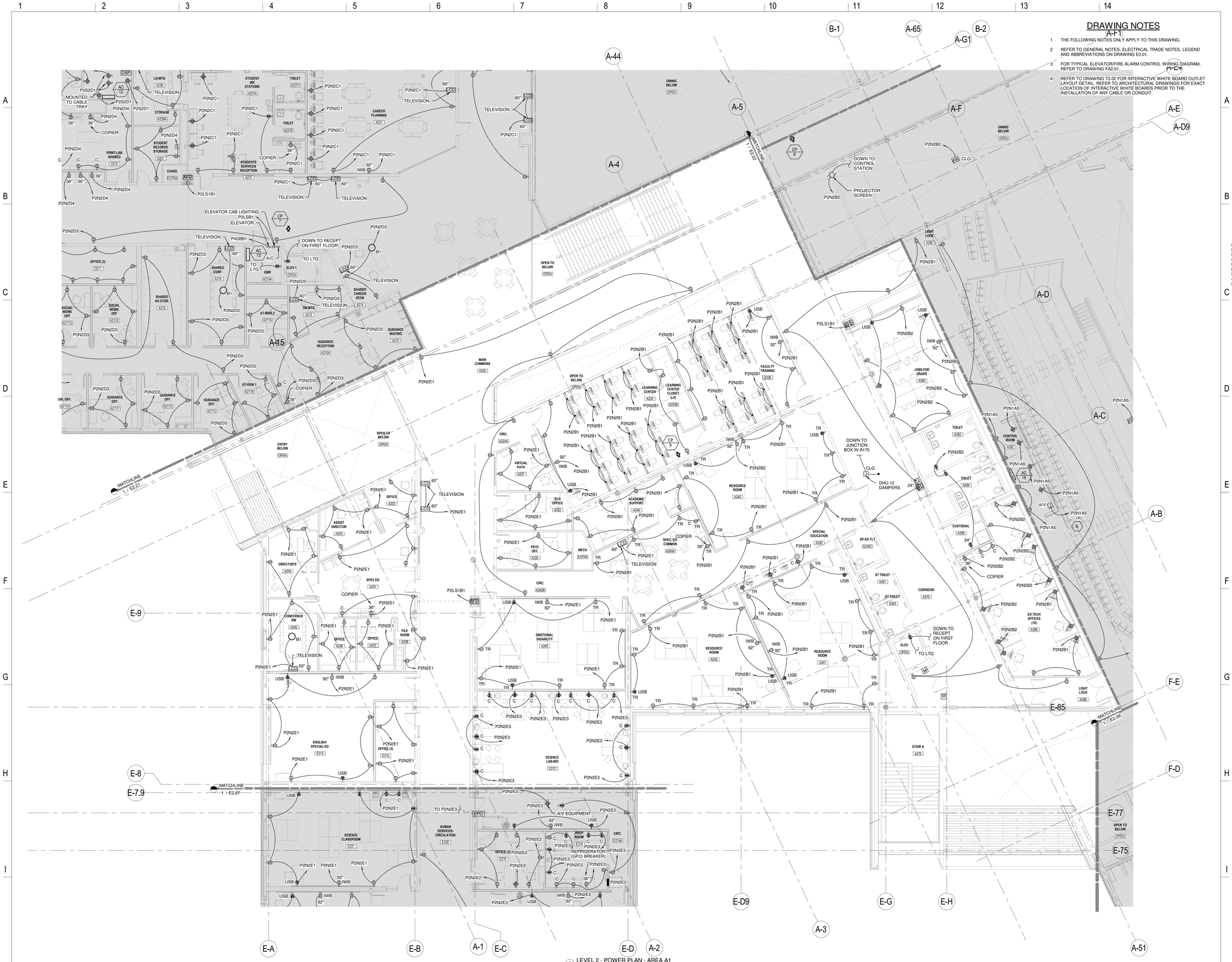
DRAWING NOTES
(A-F1)

1. THE FOLLOWING NOTES ONLY APPLY TO THIS DRAWING.
2. REFER TO GENERAL NOTES, ELECTRICAL TRADE NOTES, LEGEND AND ABBREVIATIONS ON DRAWING E0.01.
3. FOR TYPICAL ELEVATOR/FIRE ALARM CONTROL WIRING DIAGRAM, REFER TO DRAWING FA2.01.
4. REFER TO DRAWING T3.02 FOR INTERACTIVE WHITE BOARD OUTLET LAYOUT DETAIL. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATION OF INTERACTIVE WHITE BOARDS PRIOR TO THE INSTALLATION OF ANY CABLE OR CONDUIT.



1 LEVEL 2 - POWER PLAN - AREA A1
1/8" = 1'-0"

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STATE OF MAINE CHRISTOPHER M. SHUMWAY No. 10697 LICENSED PROFESSIONAL ENGINEER

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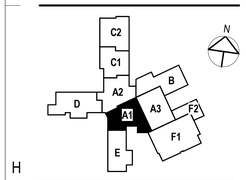

CONTENT:
SECOND FLOOR POWER PLAN - AREA A1

DRAWN BY:	C. NEWELL
PROJECT NO:	12-067-00
DATE:	02/11/2016
REVISED:	
SCALE:	1/8" = 1'-0"

E2.20

Project Phase
BID DOCUMENTS

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DRAWING NOTES

1. THE FOLLOWING NOTES ONLY APPLY TO THIS DRAWING.
2. REFER TO GENERAL NOTES, ELECTRICAL TRADE NOTES, LEGEND AND ABBREVIATIONS ON DRAWING E0.01.
3. FOR TYPICAL ELEVATOR/FIRE ALARM CONTROL WIRING DIAGRAM, REFER TO DRAWING FA2.01.
4. PROVIDE SIX (6) 1" CONDUITS, ONE (1) 1 1/2" AND ONE (1) 2 1/2" CONDUITS FROM ELECTRICAL ROOM C223A TO THIS ROOM (ABOVE CEILING) FOR FUTURE USE BY OTHERS.
5. REFER TO DRAWING T3.02 FOR INTERACTIVE WHITE BOARD OUTLET LAYOUT DETAIL. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATION OF INTERACTIVE WHITE BOARDS PRIOR TO THE INSTALLATION OF ANY CABLE OR CONDUIT.

1 LEVEL 2 - POWER PLAN - AREA A2
1/8" = 1'-0"

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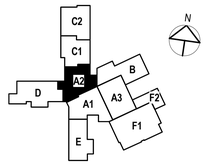
NO.	DESCRIPTION	DATE



CONTENT:
SECOND FLOOR POWER PLAN - AREA A2

DRAWN BY:	C. NEWELL
PROJECT NO:	12-067-00
DATE:	02/11/2016
REVISED:	
SCALE:	1/8" = 1'-0"

E2.21

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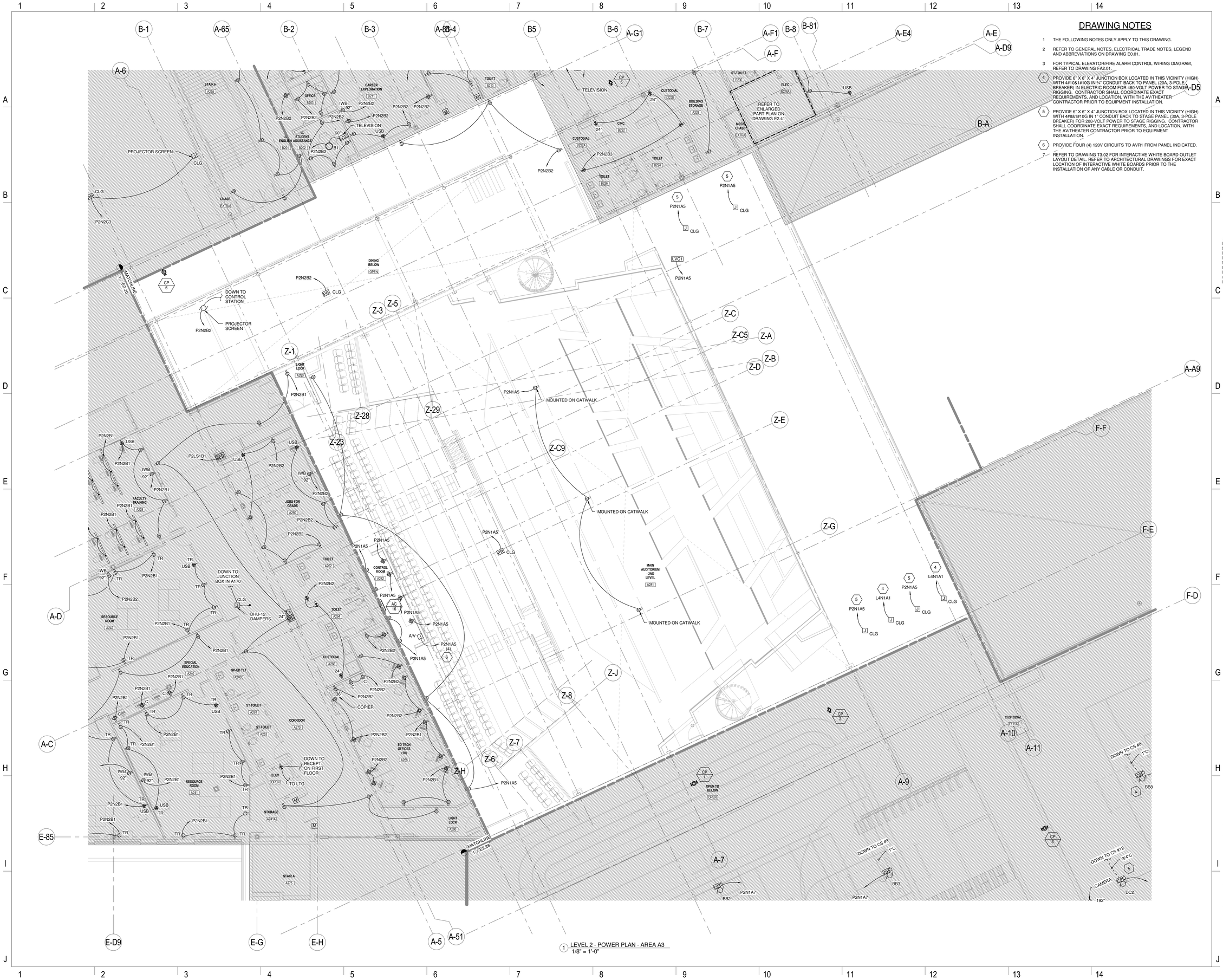

1 LEVEL 2 - POWER PLAN - AREA A3
1/8" = 1'-0"

DRAWING NOTES

1. THE FOLLOWING NOTES ONLY APPLY TO THIS DRAWING.
2. REFER TO GENERAL NOTES, ELECTRICAL TRADE NOTES, LEGEND AND ABBREVIATIONS ON DRAWING E0.01.
3. FOR TYPICAL ELEVATOR/FIRE ALARM CONTROL WIRING DIAGRAM, REFER TO DRAWING FA2.01.
4. PROVIDE 6" X 6" X 4" JUNCTION BOX LOCATED IN THIS VICINITY (HIGH) WITH 4#10&1#10G IN ¾" CONDUIT BACK TO PANEL (20A, 3-POLE, BREAKER) IN ELECTRIC ROOM FOR 480-VOLT POWER TO STAGE RIGGING. CONTRACTOR SHALL COORDINATE EXACT REQUIREMENTS, AND LOCATION, WITH THE AV/THEATER CONTRACTOR PRIOR TO EQUIPMENT INSTALLATION.
5. PROVIDE 6" X 6" X 4" JUNCTION BOX LOCATED IN THIS VICINITY (HIGH) WITH 4#8&1#10G IN 1" CONDUIT BACK TO STAGE PANEL (30A, 3-POLE BREAKER) FOR 208-VOLT POWER TO STAGE RIGGING. CONTRACTOR SHALL COORDINATE EXACT REQUIREMENTS, AND LOCATION, WITH THE AV/THEATER CONTRACTOR PRIOR TO EQUIPMENT INSTALLATION.
6. PROVIDE FOUR (4) 120V CIRCUITS TO AVR1 FROM PANEL INDICATED.
7. REFER TO DRAWING T3.02 FOR INTERACTIVE WHITE BOARD OUTLET LAYOUT DETAIL. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATION OF INTERACTIVE WHITE BOARDS PRIOR TO THE INSTALLATION OF ANY CABLE OR CONDUIT.

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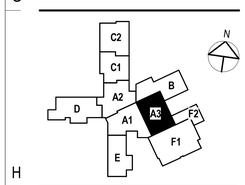
NO.	DESCRIPTION	DATE



CONTENT:
SECOND FLOOR POWER PLAN - AREA A3

DRAWN BY:	C. NEWELL
PROJECT NO:	12-067-00
DATE:	02/11/2016
REVISED:	
SCALE:	1/8" = 1'-0"

E2.22

Project Phase
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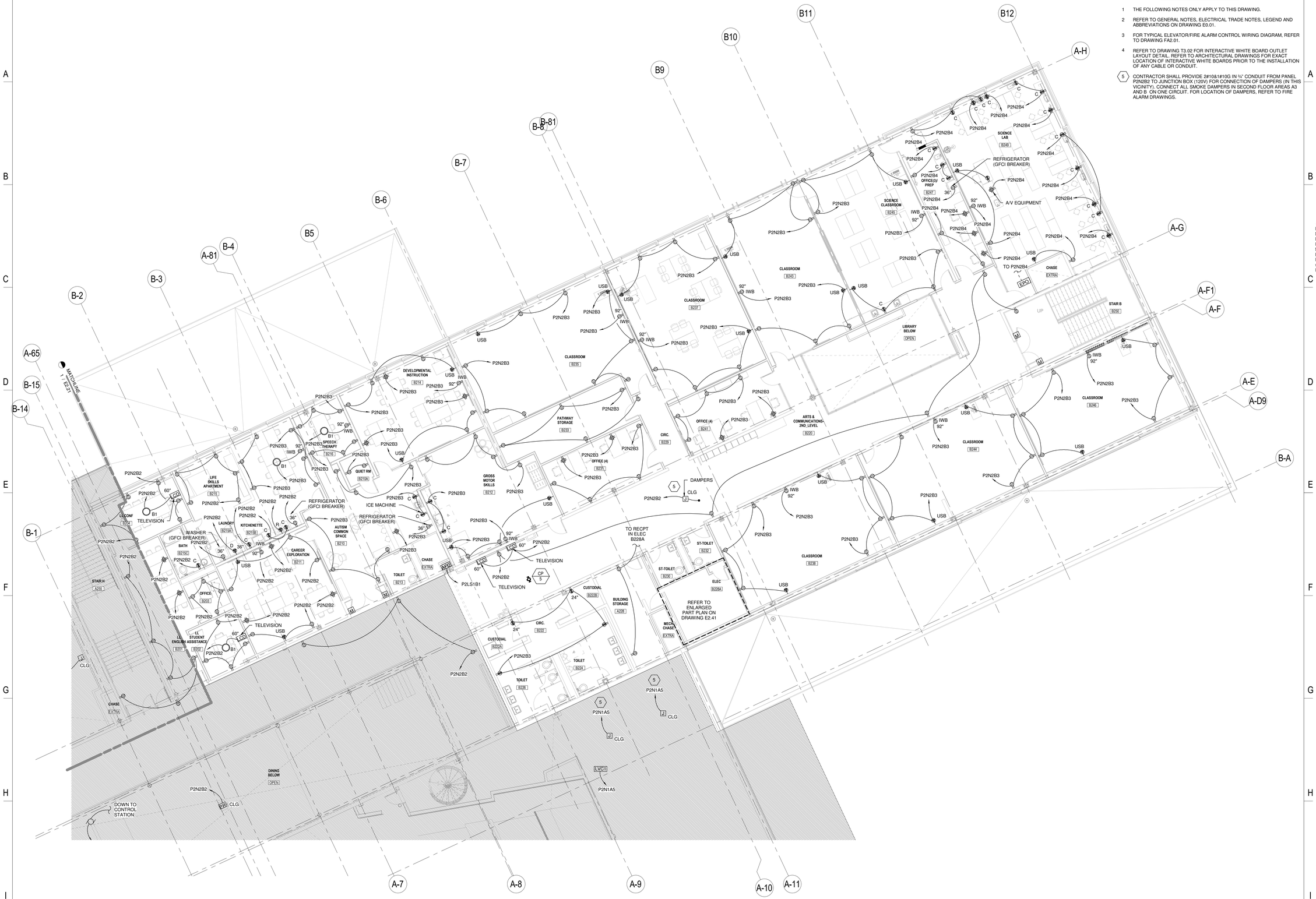
DRAWING NOTES

1. THE FOLLOWING NOTES ONLY APPLY TO THIS DRAWING.
2. REFER TO GENERAL NOTES, ELECTRICAL TRADE NOTES, LEGEND AND ABBREVIATIONS ON DRAWING E0.01.
3. FOR TYPICAL ELEVATOR/FIRE ALARM CONTROL WIRING DIAGRAM, REFER TO DRAWING FA2.01.
4. REFER TO DRAWING T3.02 FOR INTERACTIVE WHITE BOARD OUTLET LAYOUT DETAIL. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATION OF INTERACTIVE WHITE BOARDS PRIOR TO THE INSTALLATION OF ANY CABLE OR CONDUIT.
5. CONTRACTOR SHALL PROVIDE 2#10&1#10G IN ¾" CONDUIT FROM PANEL P2N2B2 TO JUNCTION BOX (120V) FOR CONNECTION OF DAMPERS (IN THIS VICINITY). CONNECT ALL SMOKE DAMPERS IN SECOND FLOOR AREAS A3 AND B ON ONE CIRCUIT. FOR LOCATION OF DAMPERS, REFER TO FIRE ALARM DRAWINGS.



1 LEVEL 2 - POWER PLAN - AREA B
1/8" = 1'-0"

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SANFORD, ME 04073

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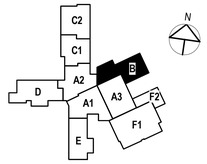

CONTENT:
SECOND FLOOR POWER PLAN - AREA B

DRAWN BY:	C. NEWELL
PROJECT NO:	12-067-00
DATE:	02/11/2016
REVISED:	
SCALE:	1/8" = 1'-0"

E2.23

Project Phase
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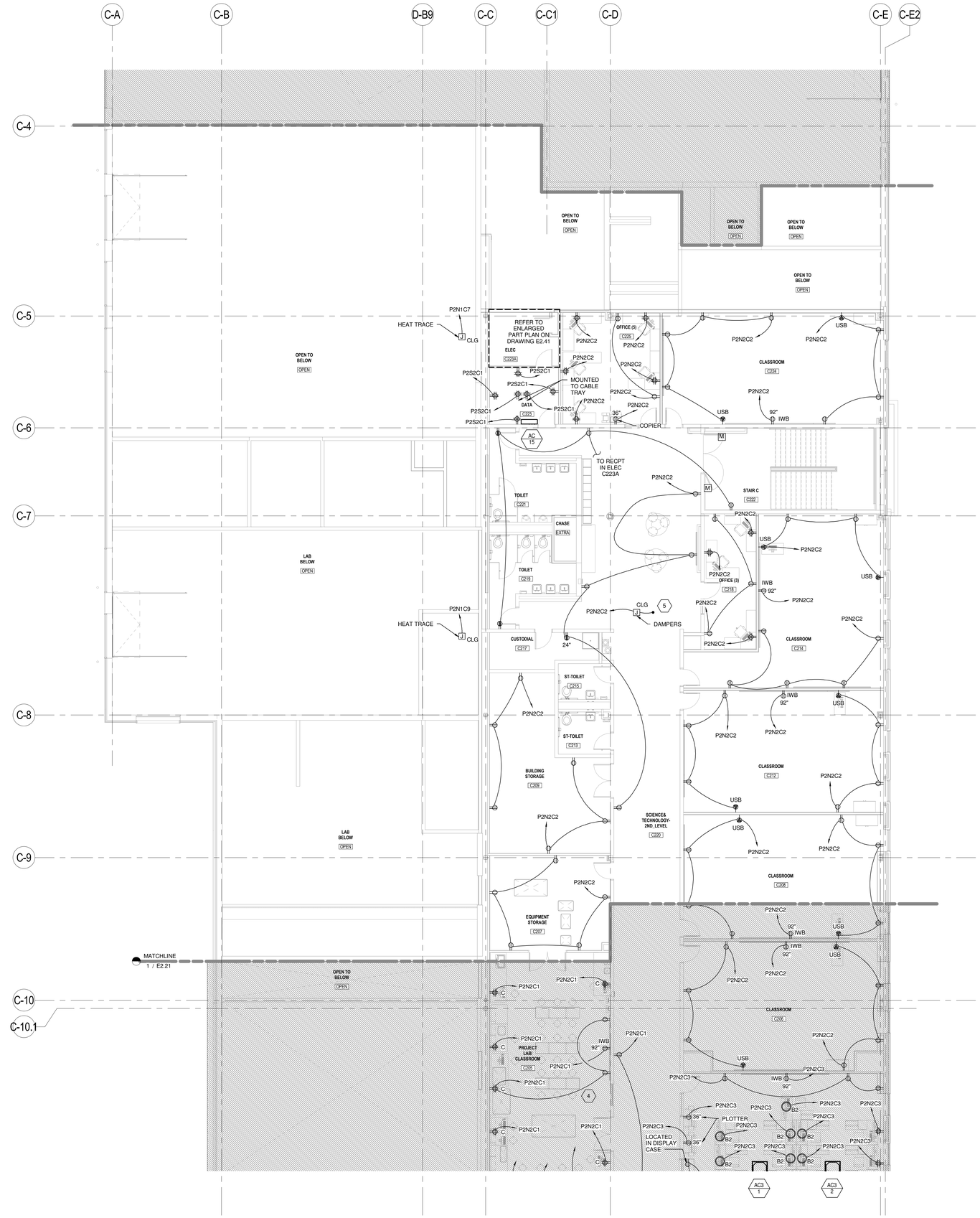

1 LEVEL 2 - POWER PLAN - AREA C1
1/8" = 1'-0"

DRAWING NOTES

1. THE FOLLOWING NOTES ONLY APPLY TO THIS DRAWING.
2. REFER TO GENERAL NOTES, ELECTRICAL TRADE NOTES, LEGEND AND ABBREVIATIONS ON DRAWING E0.01.
3. FOR TYPICAL ELEVATOR/FIRE ALARM CONTROL WIRING DIAGRAM, REFER TO DRAWING FA2.01.
4. REFER TO DRAWING T3.02 FOR INTERACTIVE WHITE BOARD OUTLET LAYOUT DETAIL. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATION OF INTERACTIVE WHITE BOARDS PRIOR TO THE INSTALLATION OF ANY CABLE OR CONDUIT.
5. CONTRACTOR SHALL PROVIDE 2#10&1#10G IN ¾" CONDUIT FROM PANEL P2N2C2 TO JUNCTION BOX (120V) FOR CONNECTION OF DAMPERS (IN THIS VICINITY). CONNECT ALL SMOKE DAMPERS IN SECOND FLOOR AREAS A2 AND C1 ON ONE CIRCUIT. FOR LOCATION OF DAMPERS, REFER TO FIRE ALARM DRAWINGS.

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Sanford School Department and State of Maine Department of Education

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SANFORD, ME 04073

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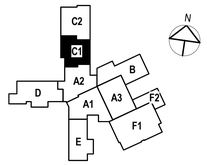

CONTENT:
SECOND FLOOR POWER PLAN - AREA C1

DRAWN BY:	C. NEWELL
PROJECT NO:	12-067-00
DATE:	02/11/2016
REVISED:	
SCALE:	1/8" = 1'-0"

E2.24

Project Phase
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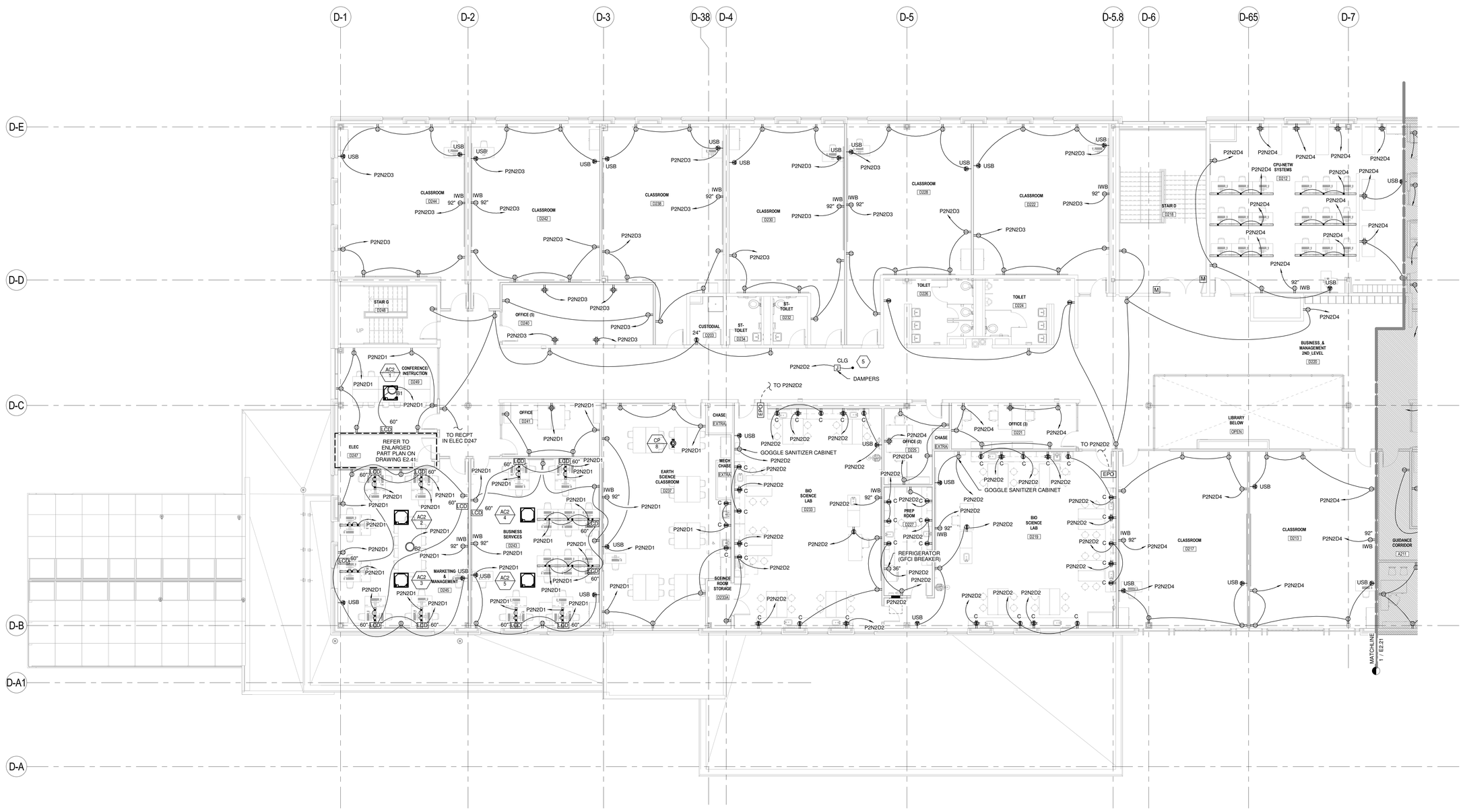
DRAWING NOTES

1. THE FOLLOWING NOTES ONLY APPLY TO THIS DRAWING.
2. REFER TO GENERAL NOTES, ELECTRICAL TRADE NOTES, LEGEND AND ABBREVIATIONS ON DRAWING E0.01.
3. FOR TYPICAL ELEVATOR/FIRE ALARM CONTROL WIRING DIAGRAM, REFER TO DRAWING FA2.01.
4. REFER TO DRAWING T3.02 FOR INTERACTIVE WHITE BOARD OUTLET LAYOUT DETAIL. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATION OF INTERACTIVE WHITE BOARDS PRIOR TO THE INSTALLATION OF ANY CABLE OR CONDUIT.
5. CONTRACTOR SHALL PROVIDE 2#10&1#10G IN ¾" CONDUIT FROM PANEL P2N2D2 TO JUNCTION BOX (120V) FOR CONNECTION OF DAMPERS (IN THIS VICINITY). CONNECT ALL SMOKE DAMPERS IN SECOND FLOOR AREA D ON ONE CIRCUIT. FOR LOCATION OF DAMPERS, REFER TO FIRE ALARM DRAWINGS.



1 LEVEL 2 - POWER PLAN - AREA D
1/8" = 1'-0"

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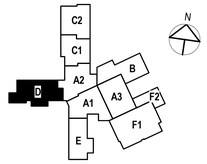

CONTENT:
SECOND FLOOR POWER PLAN - AREA D

DRAWN BY:	C. NEWELL
PROJECT NO:	12-067-00
DATE:	02/11/2016
REVISED:	
SCALE:	1/8" = 1'-0"

E2.26

Project Phase
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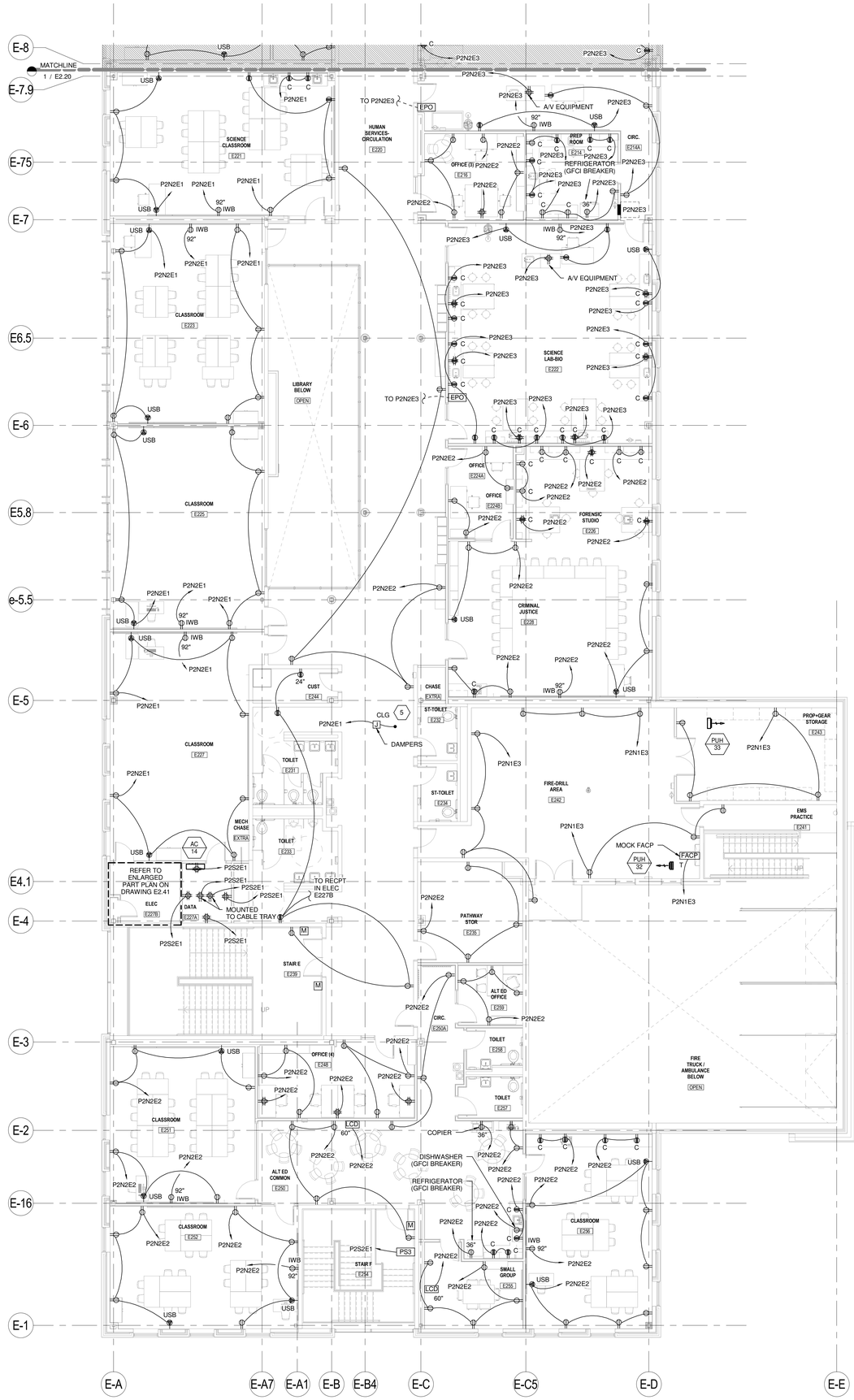

1 LEVEL 2 - POWER PLAN - AREA E
1/8" = 1'-0"

DRAWING NOTES

1. THE FOLLOWING NOTES ONLY APPLY TO THIS DRAWING.
2. REFER TO GENERAL NOTES, ELECTRICAL TRADE NOTES, LEGEND AND ABBREVIATIONS ON DRAWING E0.01.
3. FOR TYPICAL ELEVATOR/FIRE ALARM CONTROL WIRING DIAGRAM, REFER TO DRAWING FA2.01.
4. REFER TO DRAWING T3.02 FOR INTERACTIVE WHITE BOARD OUTLET LAYOUT DETAIL. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATION OF INTERACTIVE WHITE BOARDS PRIOR TO THE INSTALLATION OF ANY CABLE OR CONDUIT.
5. CONTRACTOR SHALL PROVIDE 2#10&1#10G IN ¾" CONDUIT FROM PANEL P2N2E1 TO JUNCTION BOX (120V) FOR CONNECTION OF DAMPERS (IN THIS VICINITY). CONNECT ALL SMOKE DAMPERS IN SECOND FLOOR AREA E ON ONE CIRCUIT. FOR LOCATION OF DAMPERS, REFER TO FIRE ALARM DRAWINGS.

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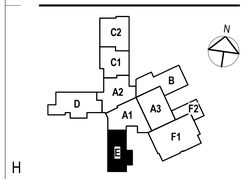
SANFORD, ME 04073

NO.	DESCRIPTION	DATE



CONTENT:
SECOND FLOOR POWER PLAN - AREA E

DRAWN BY:	C. NEWELL
PROJECT NO:	12-067-00
DATE:	02/11/2016
REVISED:	
SCALE:	1/8" = 1'-0"

E2.27

Project Phase
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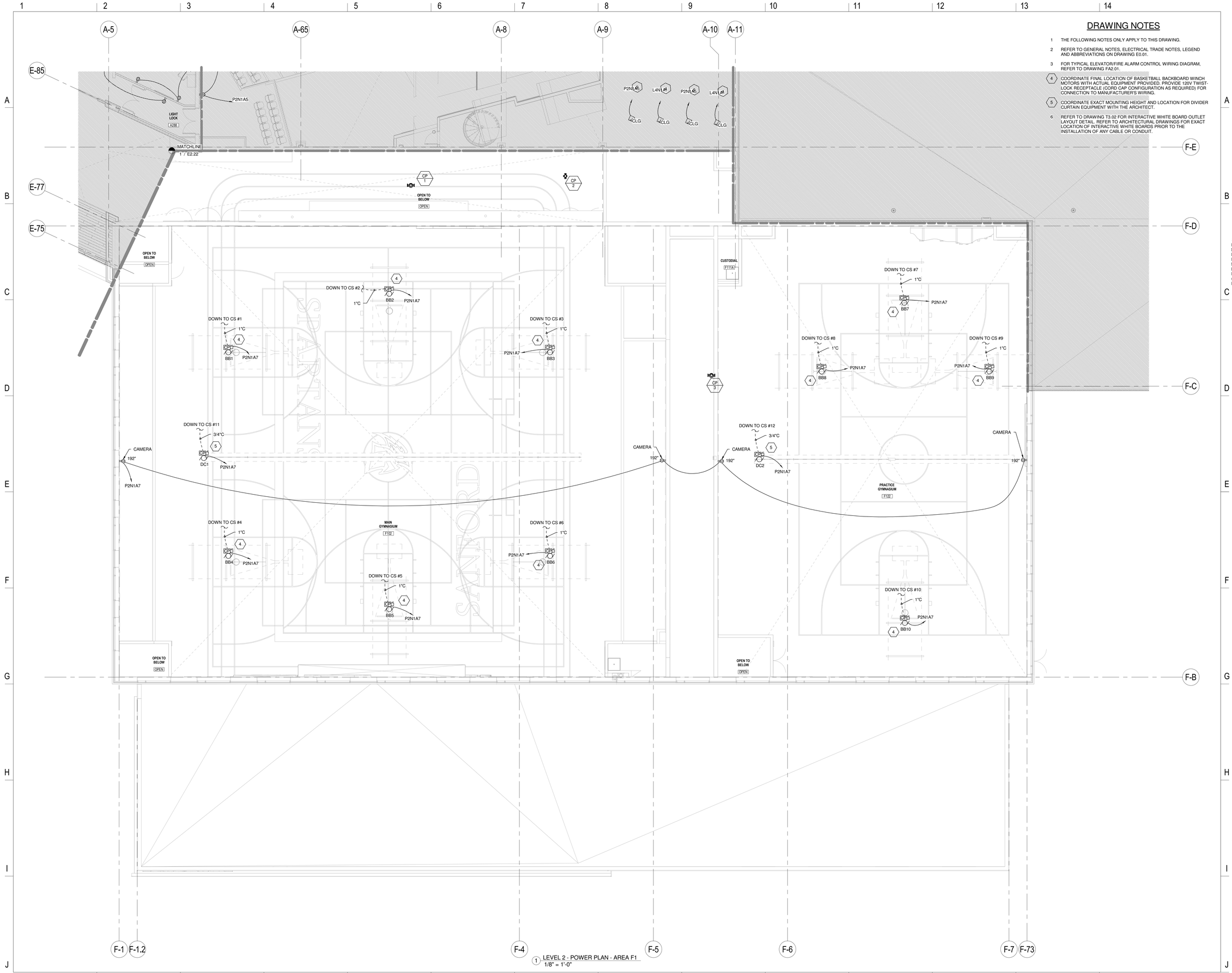

1 LEVEL 2 - POWER PLAN - AREA F1
1/8" = 1'-0"

DRAWING NOTES

1. THE FOLLOWING NOTES ONLY APPLY TO THIS DRAWING.
2. REFER TO GENERAL NOTES, ELECTRICAL TRADE NOTES, LEGEND AND ABBREVIATIONS ON DRAWING E0.01.
3. FOR TYPICAL ELEVATOR/FIRE ALARM CONTROL WIRING DIAGRAM, REFER TO DRAWING FA2.01.
4. COORDINATE FINAL LOCATION OF BASKETBALL BACKBOARD WINCH MOTORS WITH ACTUAL EQUIPMENT PROVIDED. PROVIDE 120V TWIST-LOCK RECEPTACLE (CORD CAP CONFIGURATION AS REQUIRED) FOR CONNECTION TO MANUFACTURER'S WIRING.
5. COORDINATE EXACT MOUNTING HEIGHT AND LOCATION FOR DIVIDER CURTAIN EQUIPMENT WITH THE ARCHITECT.
6. REFER TO DRAWING T3.02 FOR INTERACTIVE WHITE BOARD OUTLET LAYOUT DETAIL. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATION OF INTERACTIVE WHITE BOARDS PRIOR TO THE INSTALLATION OF ANY CABLE OR CONDUIT.

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PROFESSIONAL ENGINEER

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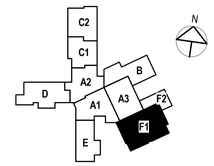
SANFORD, ME 04073

NO.	DESCRIPTION	DATE



CONTENT:
SECOND FLOOR POWER PLAN - AREA F1

DRAWN BY:	C. NEWELL
PROJECT NO:	12-067-00
DATE:	02/11/2016
REVISED:	
SCALE:	1/8" = 1'-0"

E2.28

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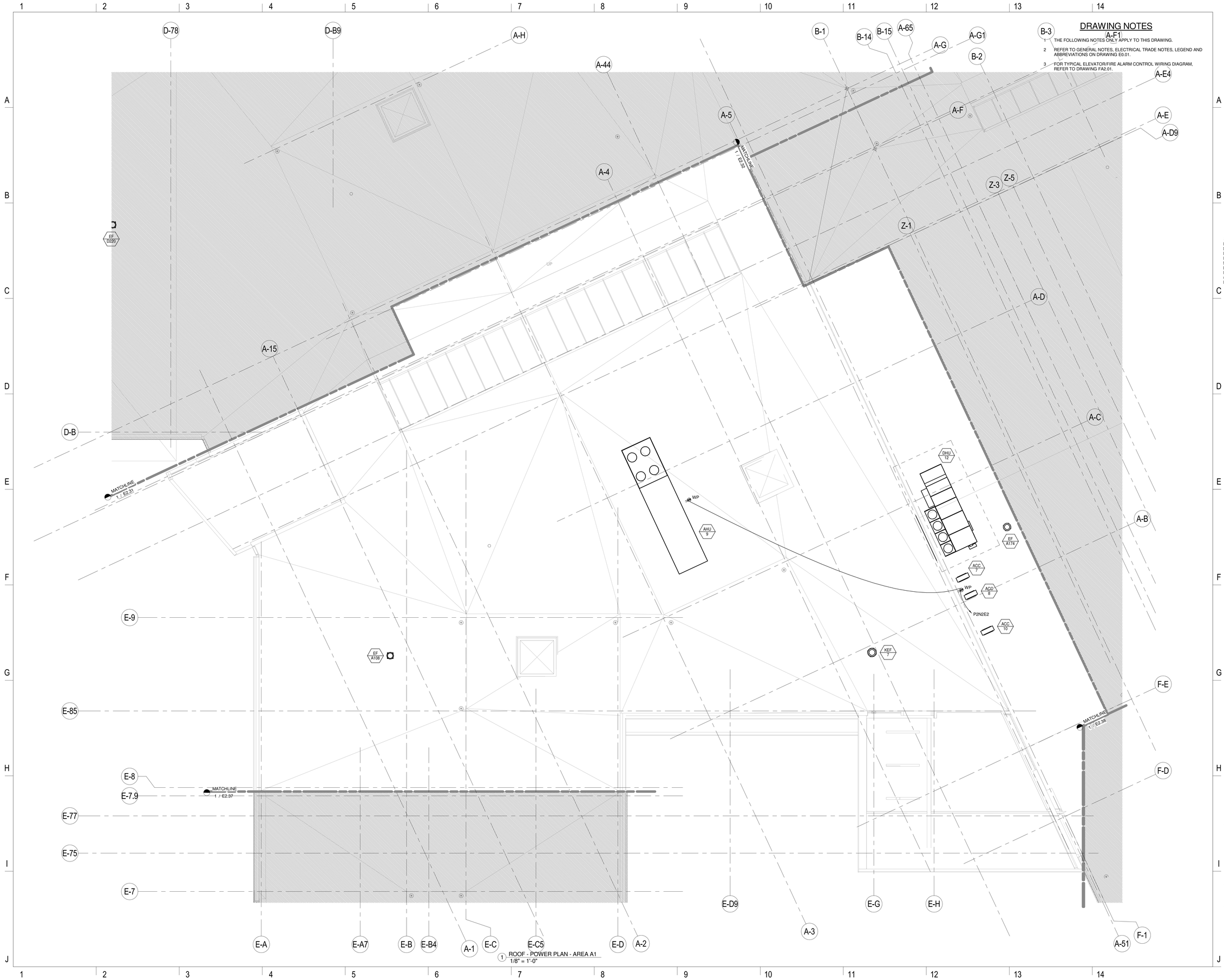
DRAWING NOTES
(A-F1)

1 THE FOLLOWING NOTES ONLY APPLY TO THIS DRAWING.

2 REFER TO GENERAL NOTES, ELECTRICAL TRADE NOTES, LEGEND AND ABBREVIATIONS ON DRAWING E0.01.

3 FOR TYPICAL ELEVATOR/FIRE ALARM CONTROL WIRING DIAGRAM, REFER TO DRAWING FA2.01.



1 ROOF - POWER PLAN - AREA A1
1/8" = 1'-0"

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No. 10697
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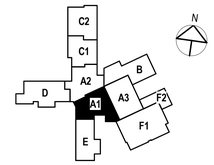
SANFORD HIGH SCHOOL and TECHNICAL CENTER

SANFORD, ME 04073

NO.	DESCRIPTION	DATE



CONTENT:
ROOF POWER PLAN - AREA A1

DRAWN BY:	C. NEWELL
PROJECT NO:	12-067-00
DATE:	02/11/2016
REVISED:	
SCALE:	1/8" = 1'-0"

E2.30

Project Phase
BID DOCUMENTS

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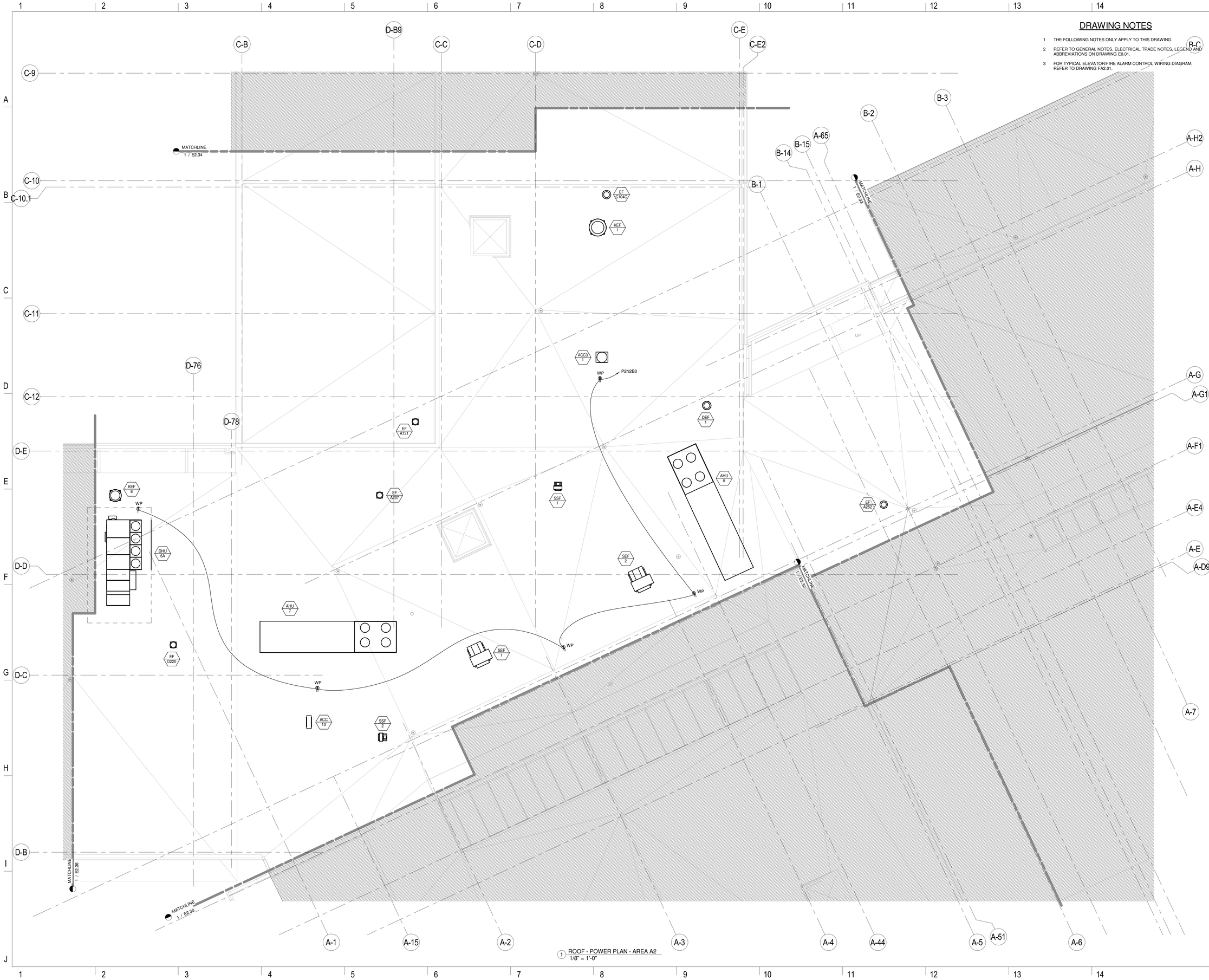
DRAWING NOTES

1. THE FOLLOWING NOTES ONLY APPLY TO THIS DRAWING.
2. REFER TO GENERAL NOTES, ELECTRICAL TRADE NOTES, LEGEND AND ABBREVIATIONS ON DRAWING E0.01.
3. FOR TYPICAL ELEVATOR/FIRE ALARM CONTROL WIRING DIAGRAM, REFER TO DRAWING FA2.01.



1 ROOF - POWER PLAN - AREA A2
1/8" = 1'-0"

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SANFORD, ME 04073

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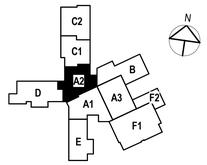

CONTENT:
ROOF POWER PLAN - AREA A2

DRAWN BY:	C. NEWELL
PROJECT NO:	12-067-00
DATE:	02/11/2016
REVISED:	
SCALE:	1/8" = 1'-0"

E2.31

Project Phase
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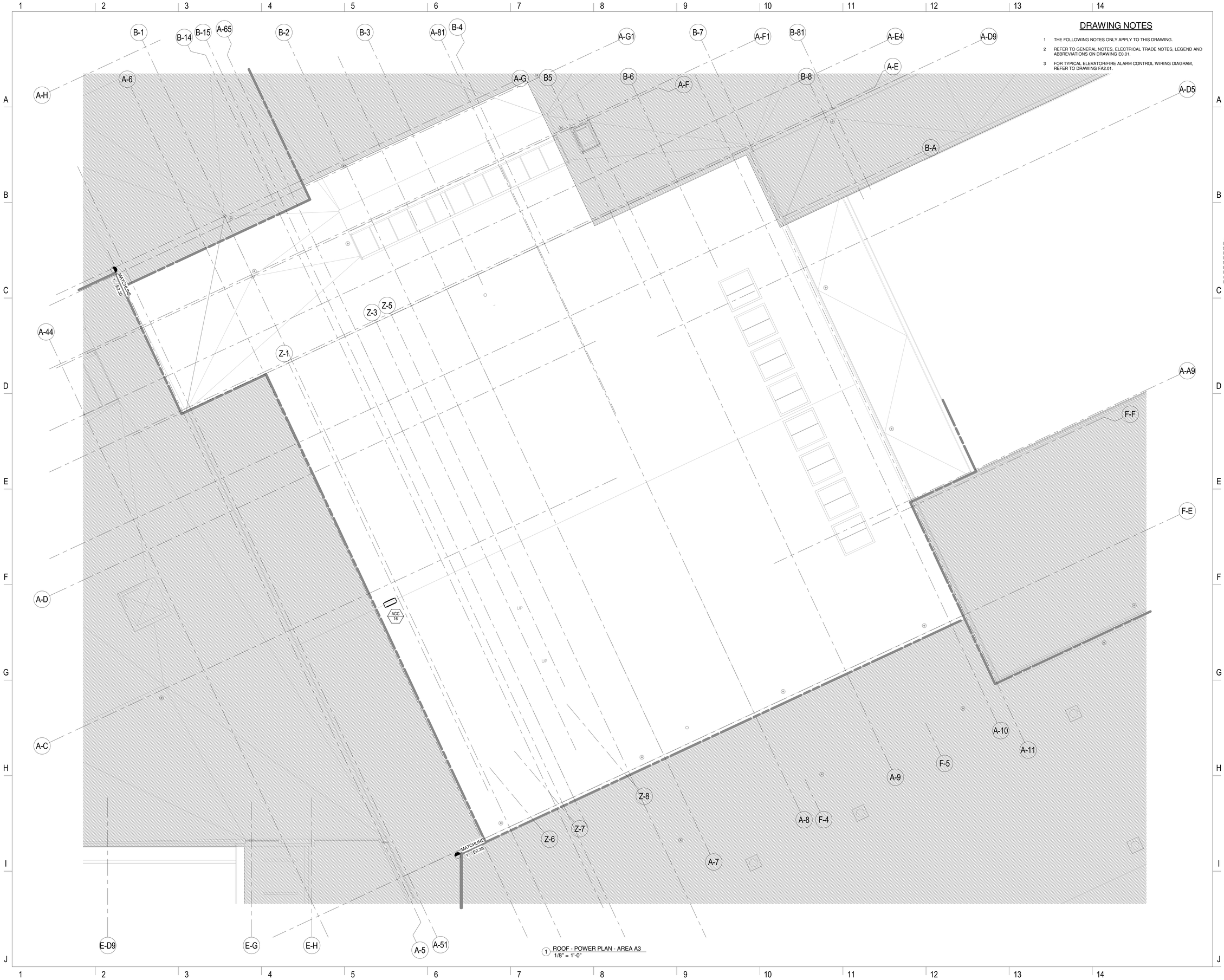
3. FOR TYPICAL ELEVATOR/FIRE ALARM CONTROL WIRING DIAGRAM, REFER TO DRAWING FA2.01.



1 ROOF - POWER PLAN - AREA A3
1/8" = 1'-0"

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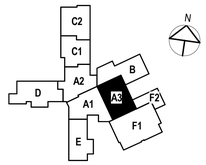

CONTENT:
ROOF POWER PLAN - AREA A3

DRAWN BY:	C. NEWELL
PROJECT NO:	12-067-00
DATE:	02/11/2016
REVISED:	
SCALE:	1/8" = 1'-0"

E2.32

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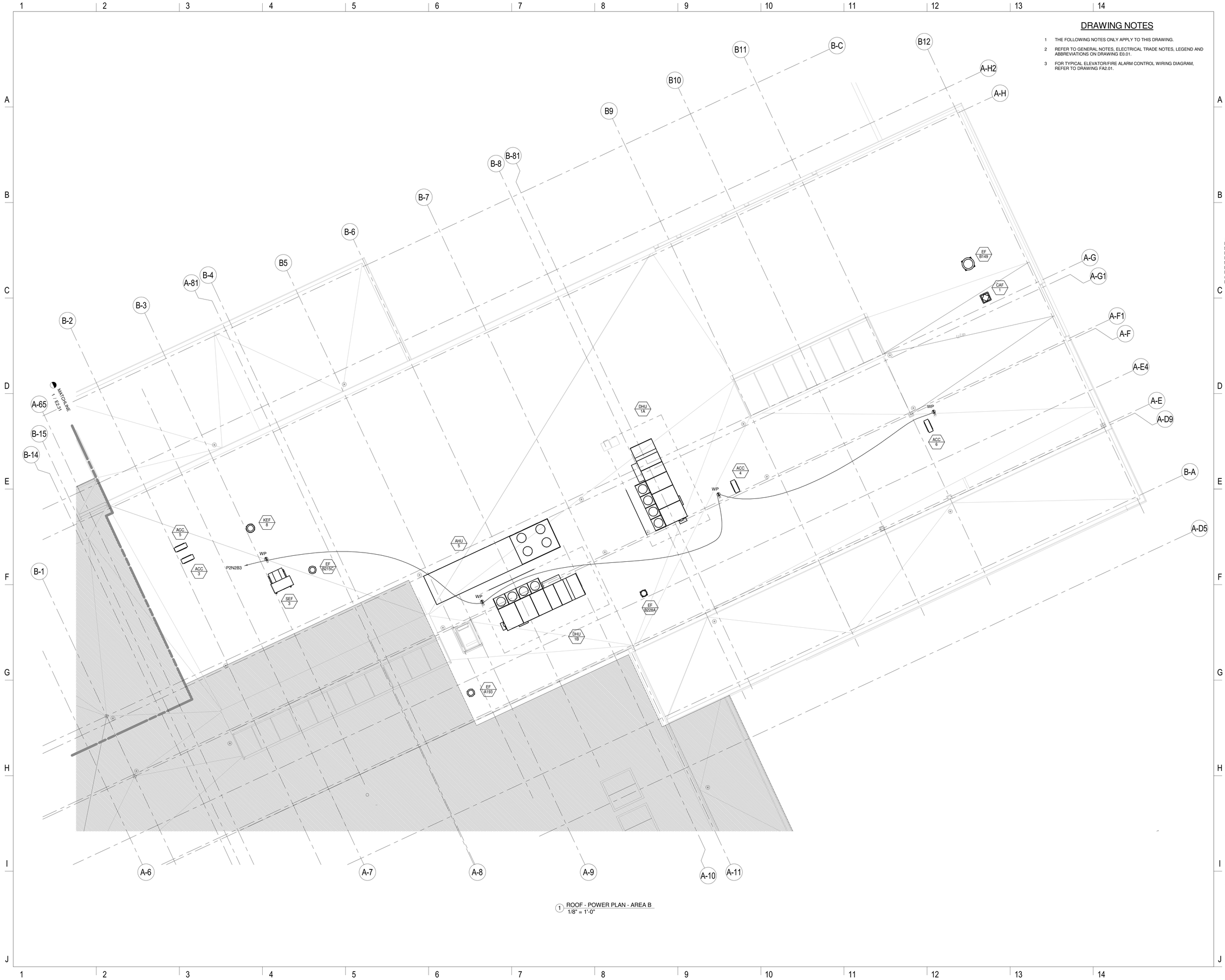
3. FOR TYPICAL ELEVATOR/FIRE ALARM CONTROL WIRING DIAGRAM, REFER TO DRAWING FA2.01.



1 ROOF - POWER PLAN - AREA B
1/8" = 1'-0"

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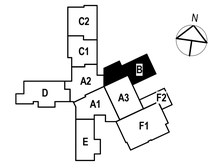

CONTENT:
ROOF POWER PLAN - AREA B

DRAWN BY:	C. NEWELL
PROJECT NO:	12-067-00
DATE:	02/11/2016
REVISED:	
SCALE:	1/8" = 1'-0"

E2.33

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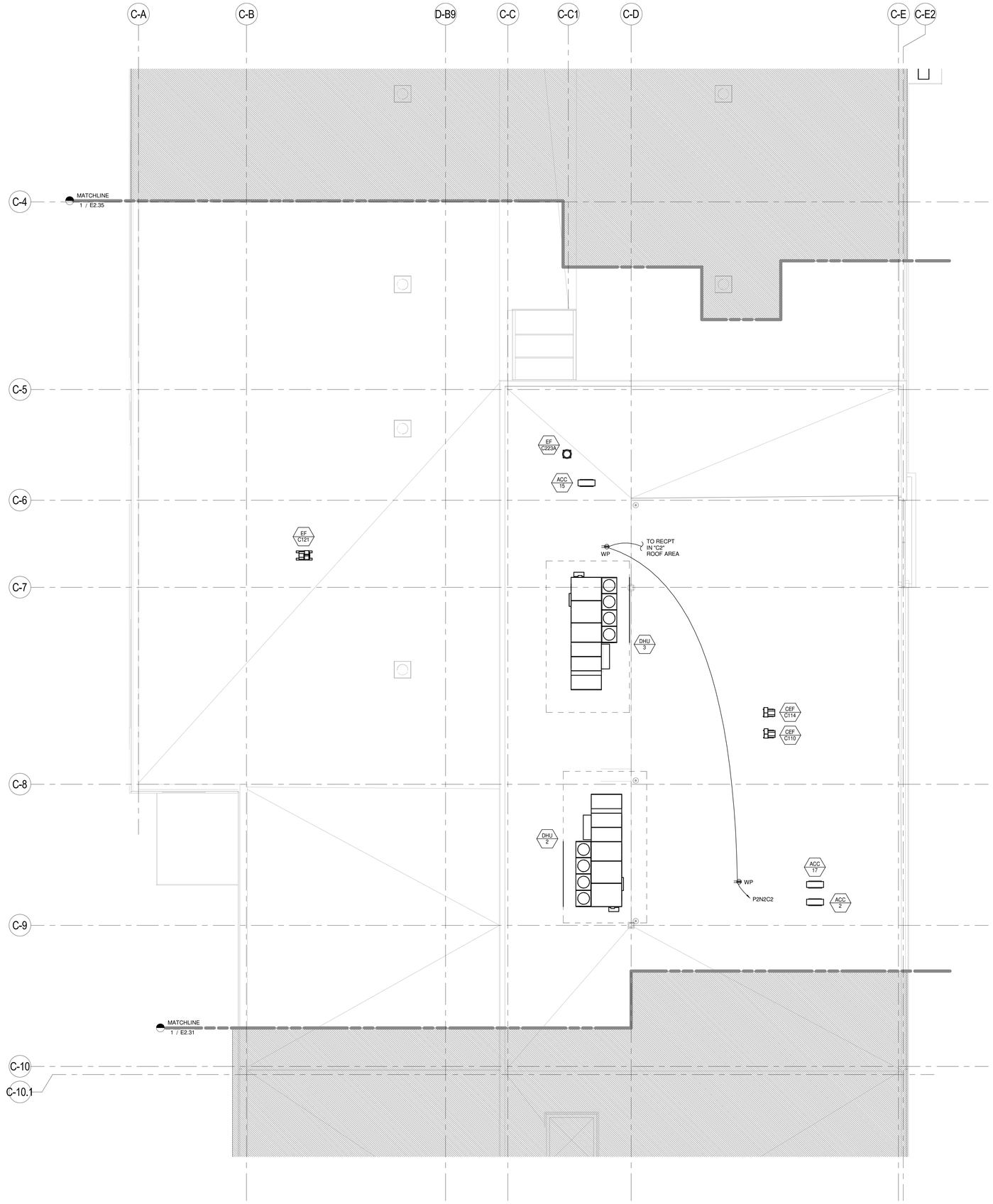

1 ROOF - POWER PLAN - AREA C1
1/8" = 1'-0"

DRAWING NOTES

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3. FOR TYPICAL ELEVATOR/FIRE ALARM CONTROL WIRING DIAGRAM, REFER TO DRAWING FA2.01.

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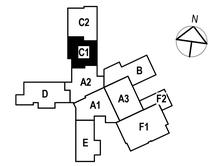

CONTENT:
ROOF POWER PLAN - AREA C1

DRAWN BY:	C. NEWELL
PROJECT NO:	12-067-00
DATE:	02/11/2016
REVISED:	
SCALE:	1/8" = 1'-0"

E2.34

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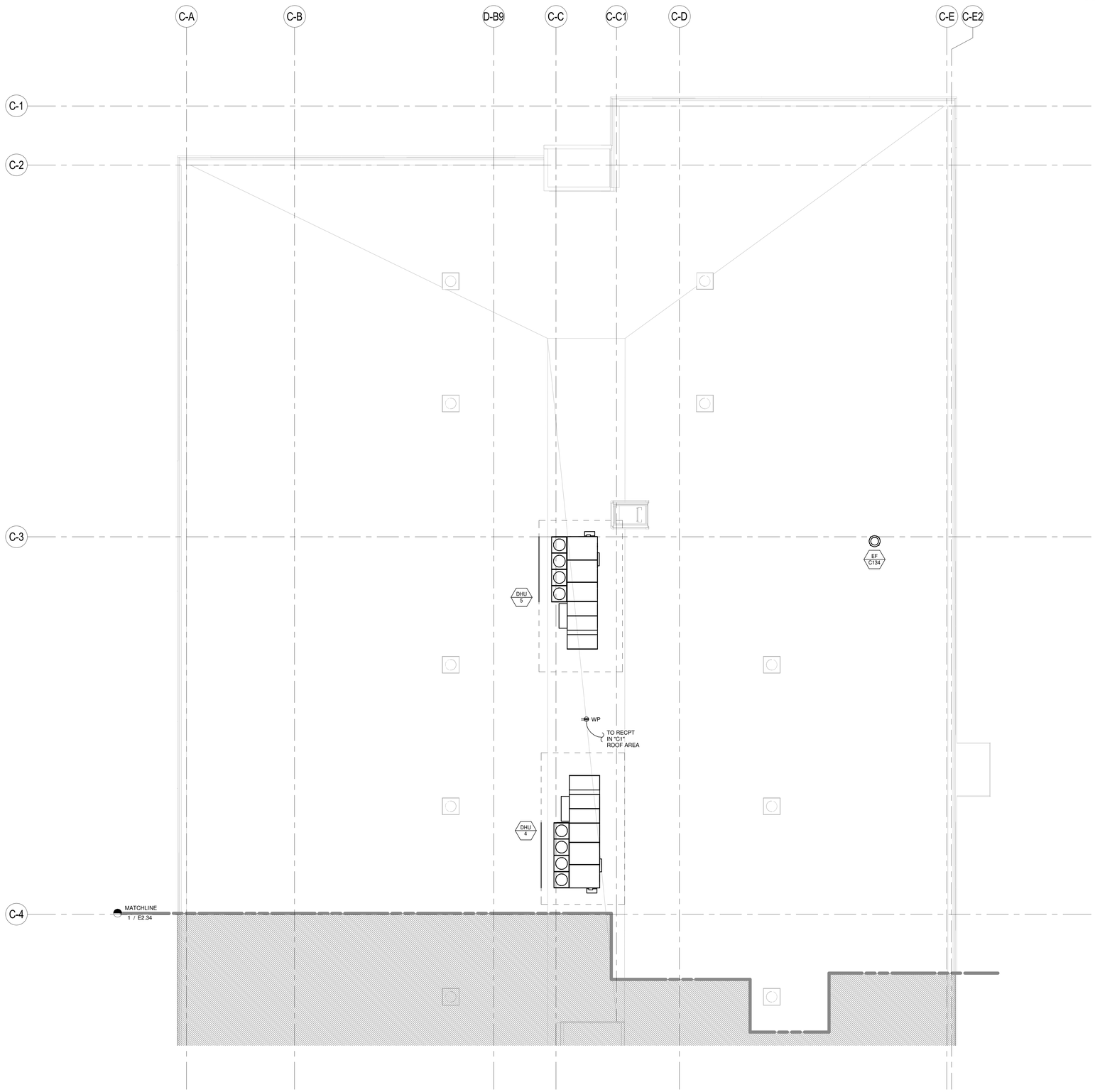
2. REFER TO GENERAL NOTES, ELECTRICAL TRADE NOTES, LEGEND AND ABBREVIATIONS ON DRAWING E0.01.
3. FOR TYPICAL ELEVATOR/FIRE ALARM CONTROL WIRING DIAGRAM, REFER TO DRAWING FA2.01.



1 ROOF - POWER PLAN - AREA C2
1/8" = 1'-0"

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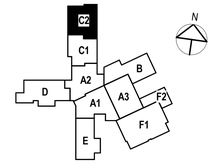

CONTENT:
ROOF POWER PLAN - AREA C2

DRAWN BY:	C. NEWELL
PROJECT NO:	12-067-00
DATE:	02/11/2016
REVISED:	
SCALE:	1/8" = 1'-0"

E2.35

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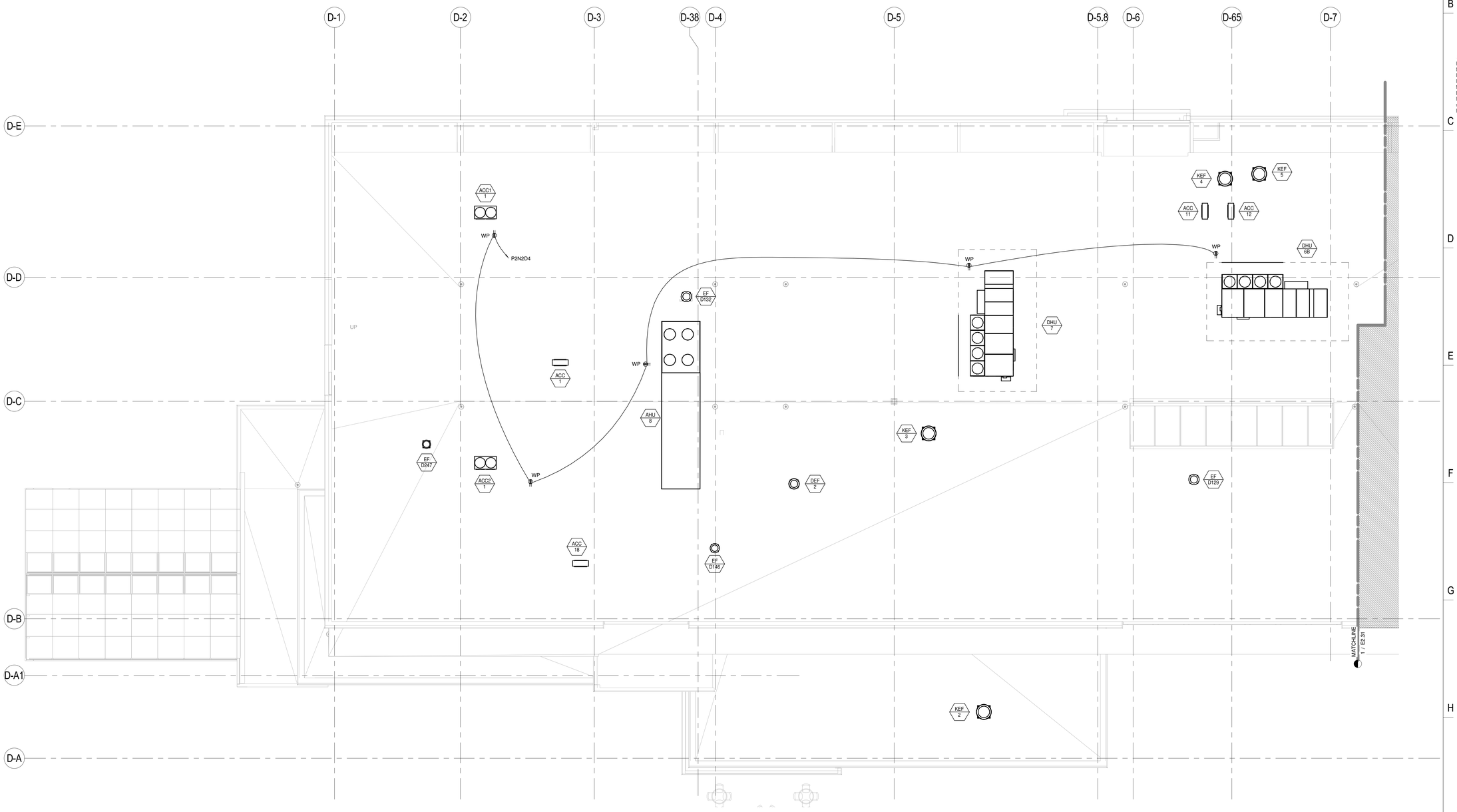
3. FOR TYPICAL ELEVATOR/FIRE ALARM CONTROL WIRING DIAGRAM, REFER TO DRAWING FA2.01.



1 ROOF - POWER PLAN - AREA D
1/8" = 1'-0"

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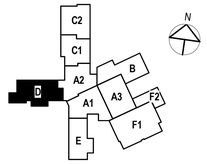

CONTENT:
ROOF POWER PLAN - AREA D

DRAWN BY:	C. NEWELL
PROJECT NO:	12-067-00
DATE:	02/11/2016
REVISED:	
SCALE:	1/8" = 1'-0"

E2.36

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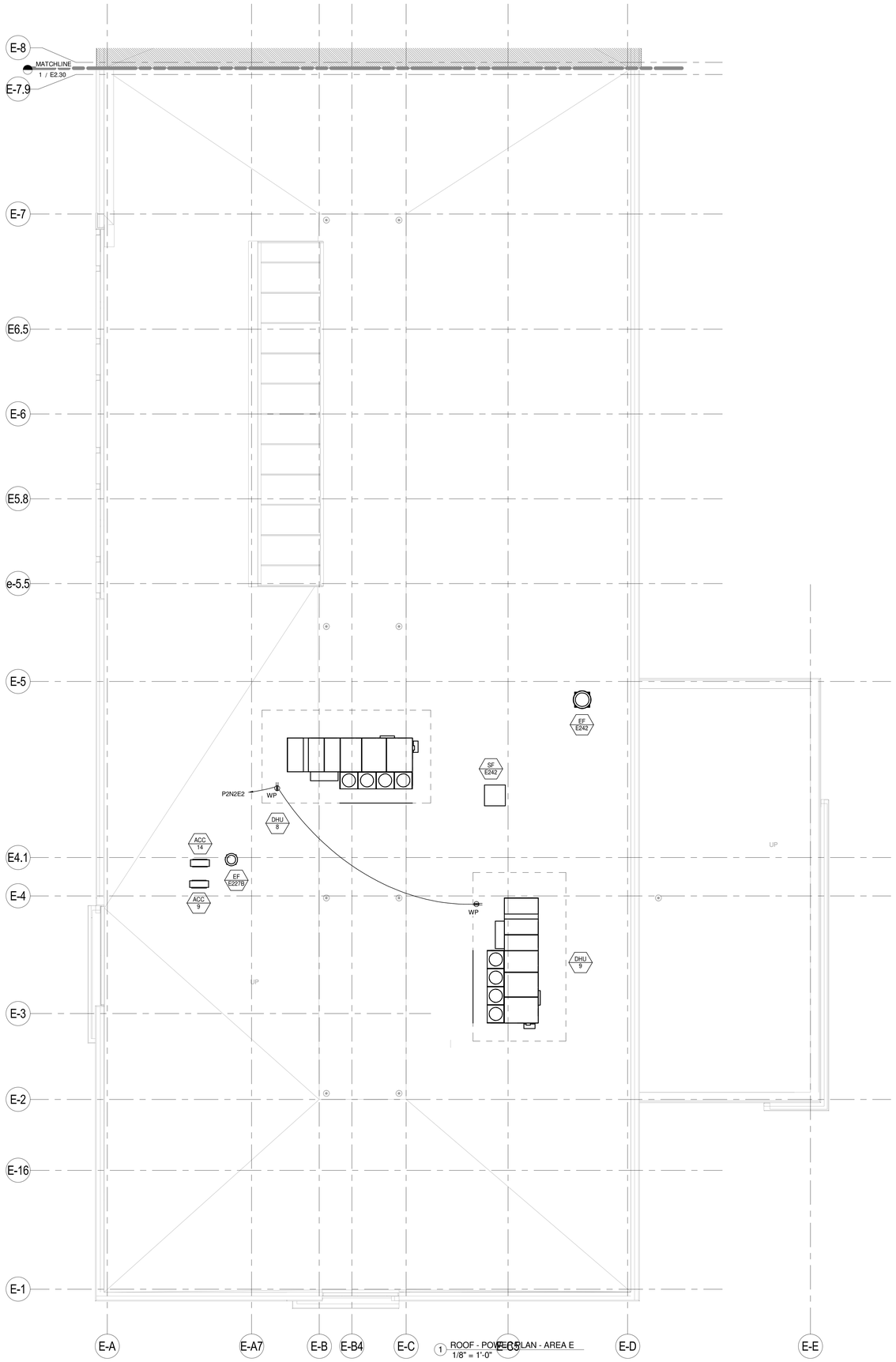

1 ROOF - POWER PLAN - AREA E
1/8" = 1'-0"

DRAWING NOTES

1 THE FOLLOWING NOTES ONLY APPLY TO THIS DRAWING.

2 REFER TO GENERAL NOTES, ELECTRICAL TRADE NOTES, LEGEND AND ABBREVIATIONS ON DRAWING E0.01.

3 FOR TYPICAL ELEVATOR/FIRE ALARM CONTROL WIRING DIAGRAM, REFER TO DRAWING FA2.01.

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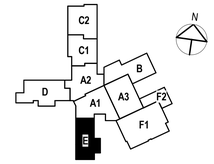

CONTENT:
ROOF POWER PLAN - AREA E

DRAWN BY:	C. NEWELL
PROJECT NO:	12-067-00
DATE:	02/11/2016
REVISED:	
SCALE:	1/8" = 1'-0"

E2.37

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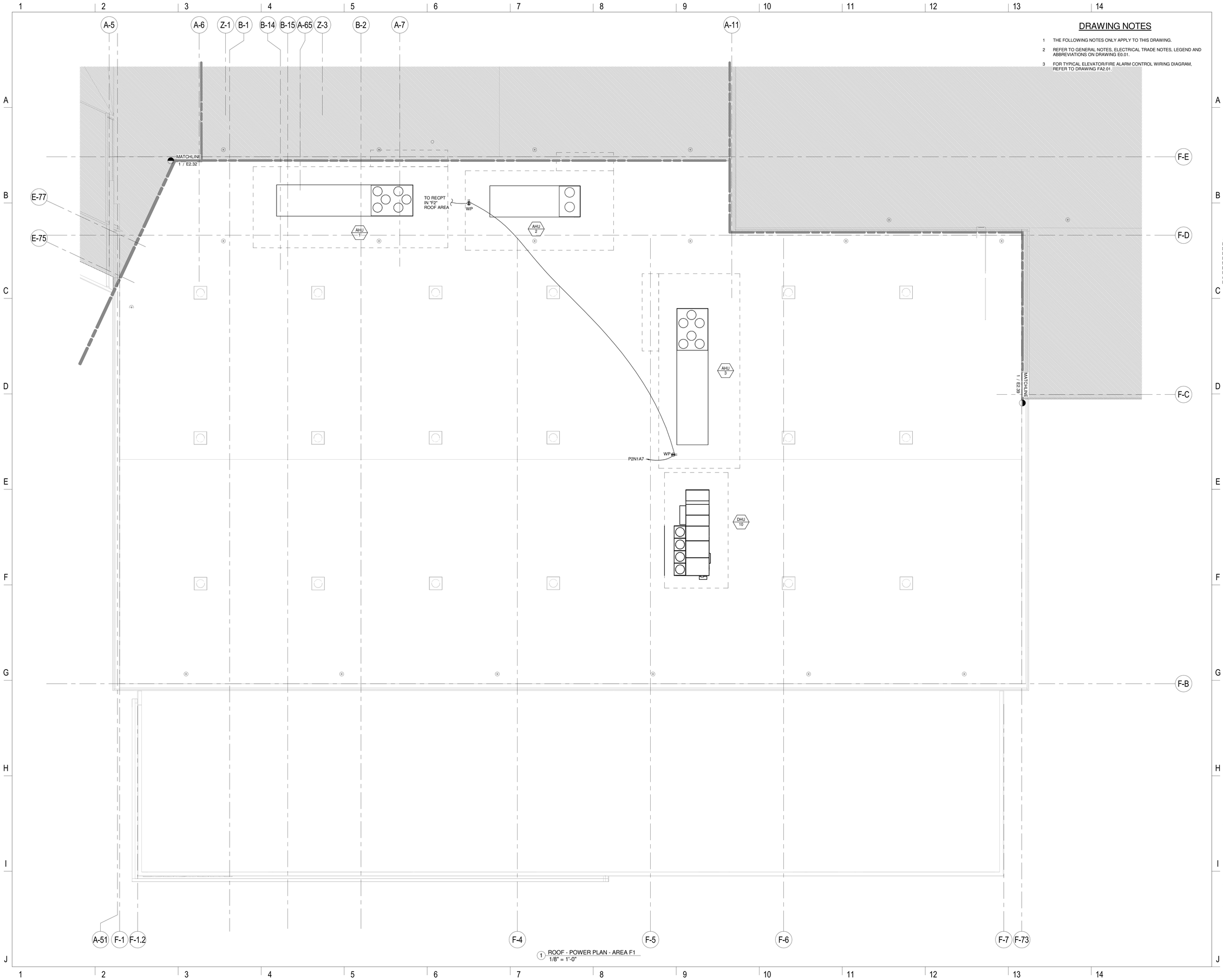

1 ROOF - POWER PLAN - AREA F1
1/8" = 1'-0"

DRAWING NOTES

1. THE FOLLOWING NOTES ONLY APPLY TO THIS DRAWING.
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3. FOR TYPICAL ELEVATOR/FIRE ALARM CONTROL WIRING DIAGRAM, REFER TO DRAWING FA2.01.

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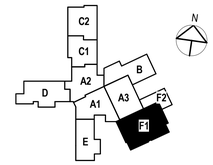

CONTENT:
ROOF POWER PLAN - AREA F1

DRAWN BY:	C. NEWELL
PROJECT NO:	12-067-00
DATE:	02/11/2016
REVISED:	
SCALE:	1/8" = 1'-0"

E2.38

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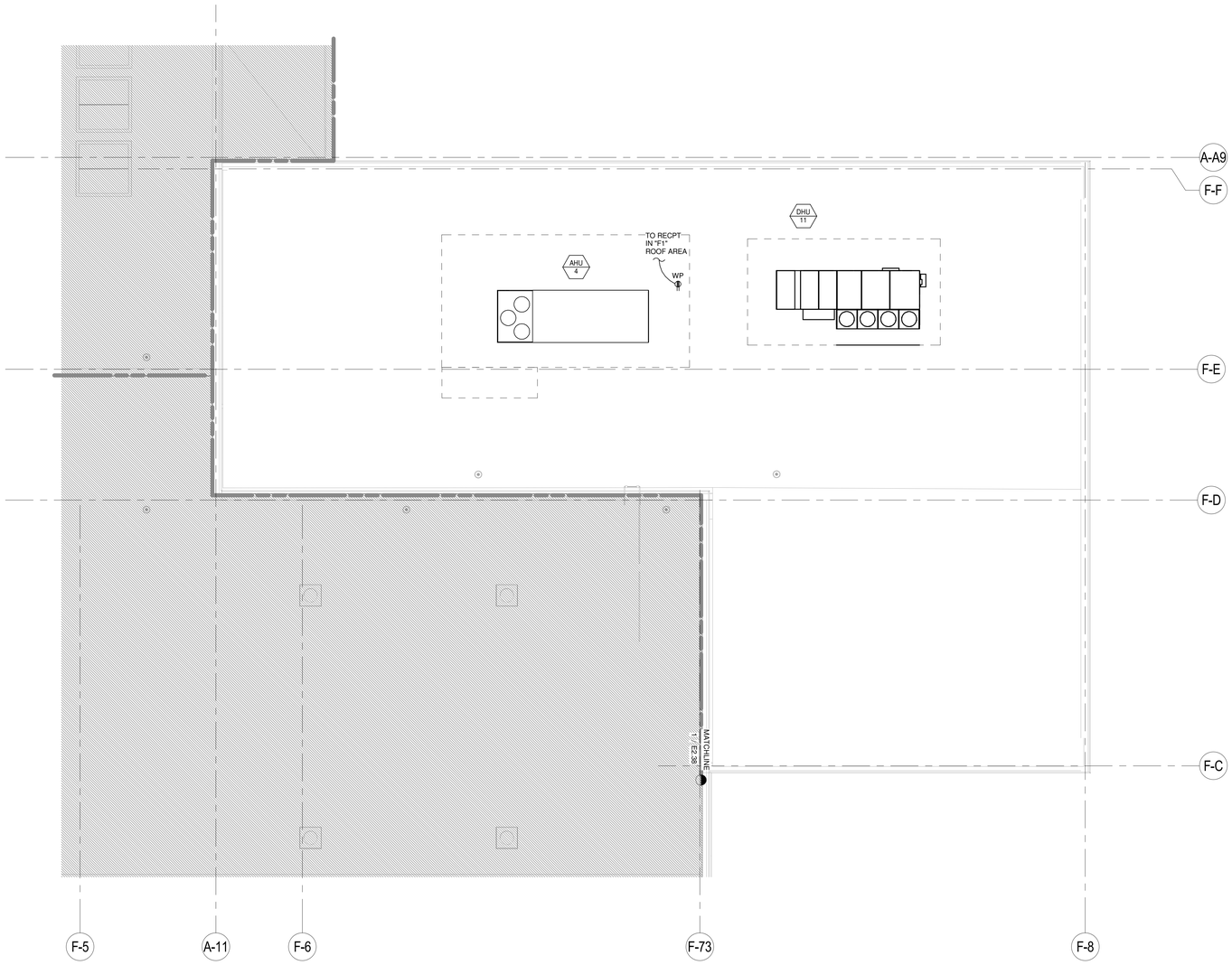
3. FOR TYPICAL ELEVATOR/FIRE ALARM CONTROL WIRING DIAGRAM, REFER TO DRAWING FA2.01.



1 ROOF - POWER PLAN - AREA F2
1/8" = 1'-0"

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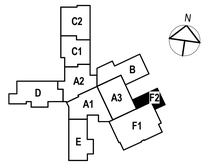

CONTENT:
ROOF POWER PLAN - AREA F2

DRAWN BY:	C. NEWELL
PROJECT NO:	12-067-00
DATE:	02/11/2016
REVISED:	
SCALE:	1/8" = 1'-0"

E2.39

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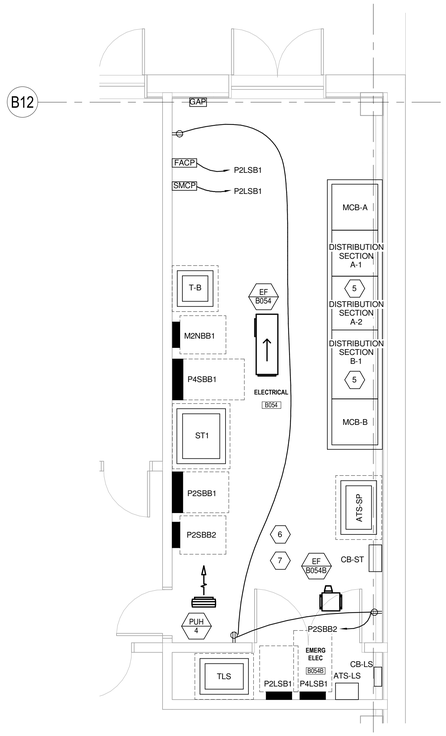
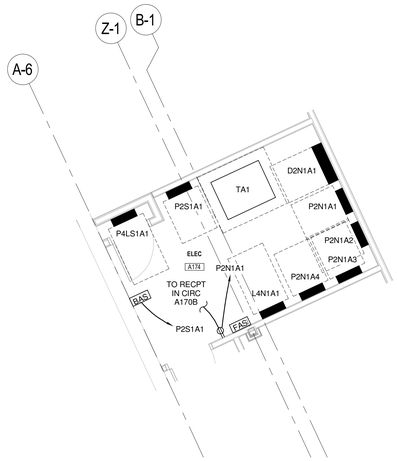
DRAWING NOTES

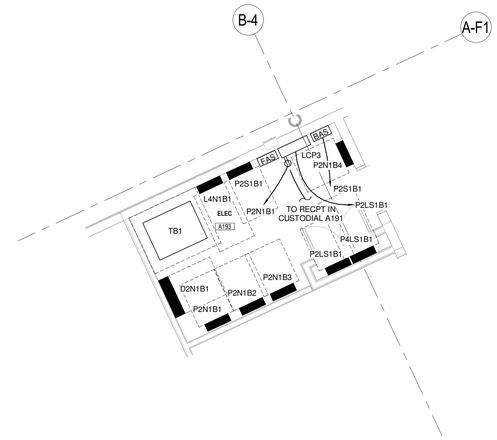
1. THE FOLLOWING NOTES ONLY APPLY TO THIS DRAWING.
2. REFER TO GENERAL NOTES, ELECTRICAL TRADE NOTES, LEGEND AND ABBREVIATIONS ON DRAWING E0.01.
3. FOR TYPICAL ELEVATOR/FIRE ALARM CONTROL WIRING DIAGRAM, REFER TO DRAWING FA2.01.
4. CONTRACTOR SHALL COORDINATE ALL EQUIPMENT SHOWN IN THESE ELECTRIC ROOMS PRIOR TO THE START OF ANY WORK. ANY EQUIPMENT (INSTALLED PRIOR TO FULL COORDINATION) THAT NEEDS TO BE REWORKED OR RELOCATED SHALL BE DONE AT NO COST TO THE OWNER.
5. CONTRACTOR SHALL PROVIDE TWO (2) 3" SPARE CONDUITS AND THREE (3) 4" SPARE CONDUITS IN THE FLOOR SLAB BELOW EACH OF THE TWO MAIN SWITCHBOARDS (MSB-A, B), AND EXTEND THEM OVER AND UP INSIDE THE CONDUIT WALL CHASE(S) (ADJACENT TO THE STAIRS) TO A POINT IN THE CORRIDOR CEILING ON THE FIRST FLOOR. CONDUITS SHALL BE CAPPED AND TAGGED IDENTIFYING THEM, AND WHERE THEY ORIGINATE. FOR CONDUIT CHASE LOCATION, REFER TO DRAWING E2.13.
6. ALL CONDUITS TO EQUIPMENT IN THESE ROOMS (B054 AND B054B) SHALL ENTER UP THROUGH THE FLOOR SLAB AND INTO THE ENCLOSURES. ALL OUTGOING CONDUITS EXITING THE ROOM TO THE SITE SHALL BE CORED AND HAVE LINK-SEALS TO PREVENT LEAKAGE.
7. ALL FLOOR MOUNTED EQUIPMENT IN THESE ROOMS SHALL BE MOUNTED ON 4" HIGH CONCRETE HOUSEKEEPING PADS (AS INDICATED).



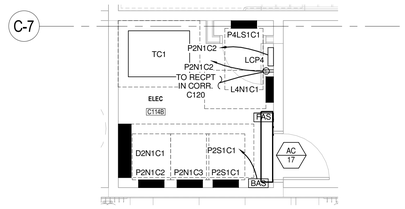
1 BASEMENT - ENLARGED ELECTRICAL B054 POWER PART PLAN - AREA B
1/4" = 1'-0"



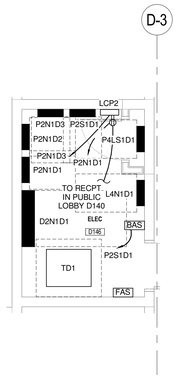
2 LEVEL 1 - ENLARGED ELEC A174 POWER PART PLAN - AREA A3
1/4" = 1'-0"



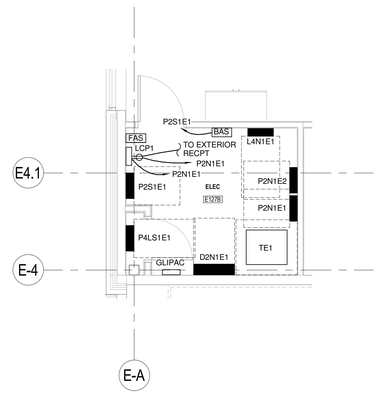
3 LEVEL 1 - ENLARGED ELEC A193 POWER PART PLAN - AREA A3
1/4" = 1'-0"



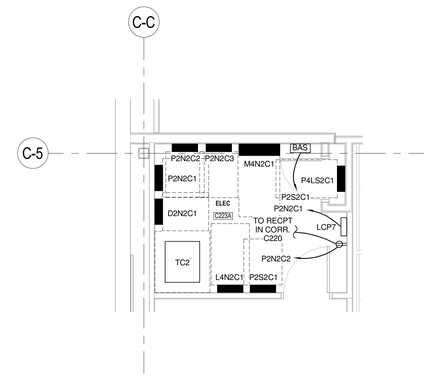
4 LEVEL 1 - ENLARGED ELEC C114B POWER PART PLAN - AREA C1
1/4" = 1'-0"



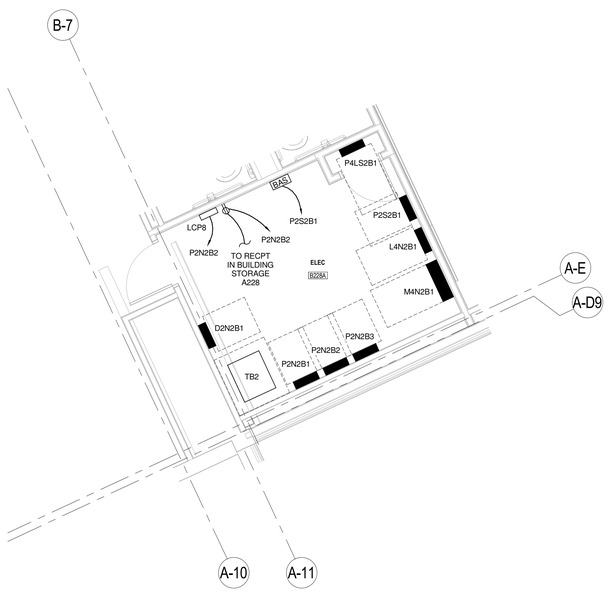
5 LEVEL 1 - ENLARGED ELEC D146 POWER PART PLAN - AREA D
1/4" = 1'-0"



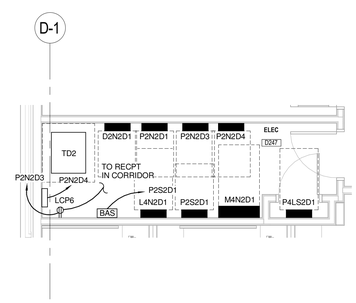
6 LEVEL 1 - ENLARGED ELEC E127B POWER PART PLAN - AREA E
1/4" = 1'-0"



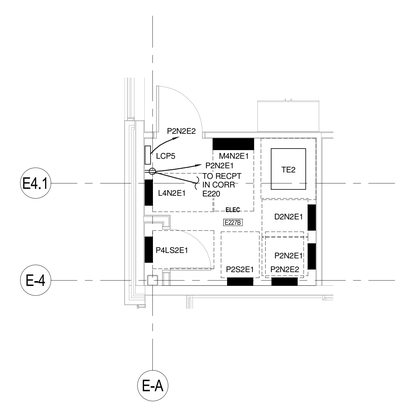
7 LEVEL 2 - ENLARGED ELEC C223A POWER PART PLAN - AREA C1
1/4" = 1'-0"



8 LEVEL 2 - ENLARGED ELEC B228A POWER PART PLAN - AREA B
1/4" = 1'-0"



9 LEVEL 2 - ENLARGED ELEC D247 POWER PART PLAN - AREA D
1/4" = 1'-0"



10 LEVEL 2 - ENLARGED ELEC E227B POWER PART PLAN - AREA E
1/4" = 1'-0"

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RFS Project #: 7300.001

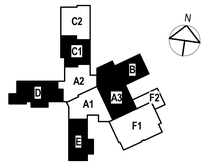
STATE OF MAINE — CHRISTOPHER M. SHUMWAY — No. 10890 — LICENSED — PROFESSIONAL ENGINEER

Sanford School Department and State of Maine Department of Education

SANFORD HIGH SCHOOL and TECHNICAL CENTER

SANFORD, ME 04073

NO.	DESCRIPTION	DATE



CONTENT:
ENLARGED POWER PART PLANS

DRAWN BY:	C. NEWELL
PROJECT NO:	12-067-00
DATE:	02/11/2016
REVISED:	
SCALE:	1/4" = 1'-0"

E2.41

Project Phase
BID DOCUMENTS

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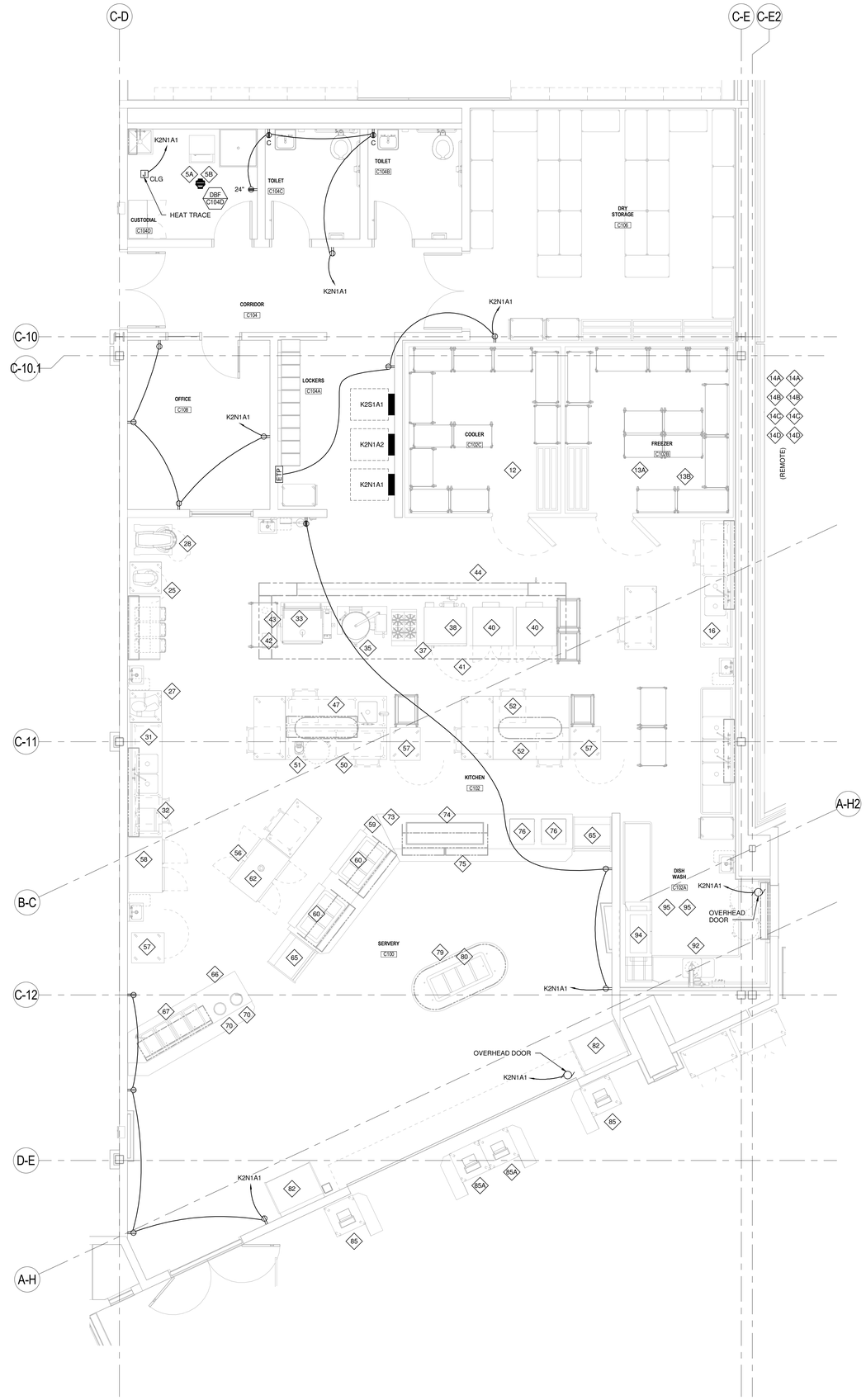
4. REFER TO DRAWING T3.02 FOR INTERACTIVE WHITE BOARD OUTLET LAYOUT DETAIL. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATION OF INTERACTIVE WHITE BOARDS PRIOR TO THE INSTALLATION OF ANY CABLE OR CONDUIT.



1 LEVEL 1 - ENLARGED CAFETERIA POWER PART PLAN - AREA A2
1/4" = 1'-0"

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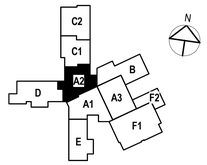
NO.	DESCRIPTION	DATE



CONTENT:
ENLARGED CAFETERIA POWER PART PLAN

DRAWN BY:	C. NEWELL
PROJECT NO:	12-067-00
DATE:	02/11/2016
REVISED:	
SCALE:	1/4" = 1'-0"

E2.51

Project Phase
BID DOCUMENTS

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CAFETERIA KITCHEN EQUIPMENT SCHEDULE

EQUIPMENT							SUPPLY						ACCESSORIES	
ITEM NUMBER	QUAN.	EQUIPMENT	MINIMUM CIRCUIT AMPS	KW	PH	SYSTEM VOLTS	PANEL DESIGNATION	CIRCUIT BREAKER	POWER WIRING FROM PANEL TO CONNECTION AND FROM CONNECTION TO EQUIPMENT: PHASE	GND	CONDUIT	MOUNTING HEIGHT (IN.)	EQUIPMENT CONNECTION NOTES	REFERENCE NOTES
5A	1	STACKED WASHER	20	1.8	1	120	K2N1A2	20/1	2-#12	1-#12 EG.	3/4"C	36	2	A
5B	1	STACKED DRYER	30	4.8	1	208	K2N1A1	30/2	3-#10	1-#10 EG.	3/4"C	36	8	A
12	1	WALK-IN COOLER LIGHTS		1.3	1	120	K2S1A1	20/1	2-#12	1-#12 EG.	3/4"C	90	3	A
13A	1	WALK-IN FREEZER LIGHTS		1.5	1	120	K2S1A1	20/1	2-#12	1-#12 EG.	3/4"C	90	3	A
13B	1	WALK-IN FREEZER HEAT TRACE FOR EVAP DRAIN		1.5	1	120	K2S1A1	20/1	2-#12	1-#12 EG.	3/4"C	90	3	A, E
14A	2	COOLER CONDENSING UNIT	5.9		3	208	K2S1A1	20/3	4-#12	1-#12 EG.	3/4"C	90	3	A, B, E
14B	2	COOLER EVAPORATOR COIL	2		1	120	K2S1A1	20/1	2-#12	1-#12 EG.	3/4"C	90	3	A, B, E
14C	2	FREEZER CONDENSING UNIT	14.4		3	208	K2S1A1	20/3	4-#12	1-#12 EG.	3/4"C	90	3	A, B, E
14D	2	FREEZER EVAPORATOR COIL	11.9		1	208	K2S1A1	20/2	3-#12	1-#12 EG.	3/4"C	90	3	A, B, E
16	1	(2) GFCI RECPT CKTS AT PREP COUNTER	(2) 15		1	120	K2N1A2	20/1	2-#12	1-#12 EG.	3/4"C	44	10	A
25	1	TWENTY-QUART MIXER	8		1	120	K2N1A2	20/1	2-#12	1-#12 EG.	3/4"C	36	2	A
27	1	AUTOMATIC SLICER	5		1	120	K2N1A2	20/1	2-#12	1-#12 EG.	3/4"C	44	2	A
28	1	SIXTY-QUART MIXER	10		3	208	K2N1A1	20/3	4-#12	1-#12 EG.	3/4"C	36	3	A
31	1	(2) GFCI RECPT CKTS AT PREP COUNTER	(2) 15		1	120	K2N1A2	20/1	2-#12	1-#12 EG.	3/4"C	36	10	A
32	1	MICROWAVE OVEN	16		1	120	K2N1A2	20/1	2-#12	1-#12 EG.	3/4"C	44	2	A
33	1	FORTY-GALLON BRAISING PAN	5		1	120	FED FROM EQUIP #44	20/1	2-#12	1-#12 EG.	3/4"C	36	3	A
35	1	FORTY-GALLON TILT KETTLE	5		1	120	FED FROM EQUIP #44	20/1	2-#12	1-#12 EG.	3/4"C	36	3	A
37	1	FOUR-BURNER RANGE WITH OVEN	1		1	120	FED FROM EQUIP #44	20/1	2-#12	1-#12 EG.	3/4"C	36	2	A
38	1	DOUBLE CONVECTION OVEN	(2) 12		1	120	FED FROM EQUIP #44	20/1	2-#12	1-#12 EG.	3/4"C	36	2	A
40	2	DOUBLE CONVECTION OVEN	(2) 8		1	120	FED FROM EQUIP #44	20/1	2-#12	1-#12 EG.	3/4"C	36	2	A
41	1	EXHAUST VENTILATOR LIGHTS	3		1	120	FED FROM EQUIP #42	20/1	2-#12	1-#12 EG.	3/4"C	72	3	A
42	1	VENTILATOR CONTROL SYSTEM	15		1	120	K2S1A1	20/1	2-#12	1-#12 EG.	3/4"C	44	3	A
43	1	FIRE SUPPRESSION SYSTEM	15		1	120	K2S1A1	20/1	2-#12	1-#12 EG.	3/4"C	36	3, 6	A, B
44	1	UTILITY DISTRIBUTION SYSTEM	50		3	120/208	K2N1A1	50/3	4-#6	1-#10 EG.	1"C	36	3	A, B
47	1	(2) GFCI RECPT CKTS ON COOK'S TABLE WITH SINK	(2) 15		1	120	K2N1A2	20/1	2-#12	1-#12 EG.	3/4"C	36	10	A
50	1	(2) GFCI RECPT CKTS AT WORK COUNTER	(2) 15		1	120	K2N1A2	20/1	2-#12	1-#12 EG.	3/4"C	36	10	A
51	1	FOOD PROCESSOR	12		1	120	FED FROM TABLE #50	-	2-#12	1-#12 EG.	3/4"C	36	2	A
52	2	(2) GFCI RECPT CKTS AT WORK TABLES	(2) 15		1	120	K2N1A2	20/1	2-#12	1-#12 EG.	3/4"C	36	10	A
56	1	PASS-THRU REFRIGERATOR	8.6		1	120	K2S1A1	20/1	2-#12	1-#12 EG.	3/4"C	36	2	A
57	3	MOBILE HOT FOOD CABINETS	13.75		1	120	K2N1A2	20/1	2-#12	1-#12 EG.	3/4"C	36	2	A
58	1	REACH-IN REFRIGERATOR	8.2		1	120	K2S1A1	20/1	2-#12	1-#12 EG.	3/4"C	36	2	A
59	1	(3) GFCI RECPT CKTS AT DELI SERVING COUNTER	(3) 15		1	120	K2N1A2	20/1	2-#12	1-#12 EG.	3/4"C	36	10	A
60	2	MECHANICAL COLD PANS	6.3		1	120	FED FROM COUNT. #59	-	2-#12	1-#12 EG.	3/4"C	36	2	A
62	1	DROP CORD	15		1	120	K2N1A2	20/1	2-#12	1-#12 EG.	3/4"C	96	2	A
65	2	REFRIGERATED GRAB-N-GO DISPLAY CASE	7		1	120	K2S1A1	20/1	2-#12	1-#12 EG.	3/4"C	36	2	A
66	1	(3) GFCI RECPT CKTS AT HOT ENTRÉE SERVING COUNTER	(3) 15		1	120	K2N1A2	20/1	2-#12	1-#12 EG.	3/4"C	36	10	A
67	1	HOT FOOD WELLS (FOUR WELLS PER GROUP)		4.0	1	208	K2N1A1	30/2	3-#10	1-#10 EG.	3/4"C	36	3	A, B
70	2	SOUP WELLS		0.83	1	120	K2N1A2	20/1	2-#12	1-#12 EG.	3/4"C	36	2	A
73	1	(5) GFCI RECPT CKTS AT PIZZA SERVING COUNTER	(5) 15		1	120	K2N1A2	20/1	2-#12	1-#12 EG.	3/4"C	36	10	A
74	1	HEATED DISPLAY SURFACE		1.44	1	120	FED FROM COUNT. #73	-	2-#12	1-#12 EG.	3/4"C	36	2	A
75	1	SNEEZE GUARD WITH HEAT LAMPS		1.73	1	208	K2N1A1	20/2	3-#12	1-#12 EG.	3/4"C	36	3	A
76	2	HEATED SANDWICH SLIDES	11.3		1	120	K2N1A2	20/1	2-#12	1-#12 EG.	3/4"C	36	2	A
79	1	(2) GFCI RECPT CKTS ATSALAD BAR COUNTER	(2) 15		1	120	K2N1A2	20/1	2-#12	1-#12 EG.	3/4"C	36	10	A
80	1	MECHANICAL COLD PANS	7.4		1	120	FED FROM COUNT. #79	-	2-#12	1-#12 EG.	3/4"C	36	2	A
82	2	REFRIGERATED GRAB-N-GO DISPLAY CASE	10.2		1	208	K2S1A1	20/2	3-#12	1-#12 EG.	3/4"C	36	12	A
85	2	CASHIER TERMINALS	15		1	120	K2S1A1	20/1	2-#12	1-#12 EG.	3/4"C	12	2	A
85A	2	CASHIER TERMINALS	15		1	120	K2S1A1	20/1	2-#12	1-#12 EG.	3/4"C	FLOOR BOX - TYPE A2	2	A
92	1	DISPOSER	6.6		3	208	K2N1A1	20/3	3-#12	1-#12 EG.	3/4"C	18	3	A, B
94	1	WAREWASHER	131		3	208	K2N1A1	150/3	4-#1/0	1-#6 EG.	2"C	24	3	A, B
95	2	EXHAUST DUCTS		-	-	-	-	-	-	-	-	-	-	H

GENERAL NOTES:

1. ALL ACCESSORIES PROVIDED BY THE DIVISION 26 CONTRACTOR. UON
2. ALL CONTROL DEVICES ARE TO BE SURFACE MOUNTED, UNLESS OTHERWISE NOTED.
3. PROVIDE OVERLOADS, SIZE AS REQUIRED, BY THE DIVISION 16 CONTRACTOR
4. IF DIFFERENT THAN INDICATED ON THIS SCHEDULE OR PANELBOARD SCHEDULE, PROVIDE NEW CIRCUIT BREAKER IN DESIGNATED PANELBOARD SIZED PER EQUIPMENT NAMEPLATE DATA.

REFERENCE NOTES:

A. COORDINATE EXACT MOUNTING HEIGHT AND LOCATION WITH FOOD SERVICE DRAWING K-1.0.
B. PROVIDE DISCONNECT SWITCH AT THE UNIT, AS REQUIRED PER THE NEC
C. PROVIDE DISCONNECT SWITCH, SIZED AS REQUIRED, AHEAD OF CONTROL PANEL
D. CONTRACTOR SHALL WIRE DOOR SWITCH
E. CONTRACTOR SHALL PROVIDE CONTROL WIRING FROM EVAP TO CONDENSER & HEAT TRACE ON THE DRAIN
F. CONNECT TO FACTORY-MOUNTED DISCONNECT SWITCH
G. CONNECT TO COUNTER JUNCTION BOX
H. ELECTRICAL SHALL CONNECT INTERLOCK WIRING WITH WAREWASHER

EQUIPMENT CONNECTION NOTES

1. PROVIDE NEMA 5-20 RECEPTACLE - CORD & PLUG (C&P)
2. PROVIDE NEMA 5-20 RECEPTACLE WITH GFCI CIRCUIT BREAKER
3. PROVIDE JUNCTION BOX OR DISCNNECT SWITCH, SIZED AS REQUIRED, AND HARD WIRE TO EQUIPMENT
4. DROP DOWN FROM ABOVE WITH DROP CORD
5. PROVIDE TWO GFCI (CIRCUITS) RECEPTACLES AT TABLE
6. CONNECT AS REQ'D TO FIRE ALARM SYSTEM
7. PROVIDE NEMA 6-15R RECEPTACLE PER MGF. RECOMMENDATION
8. PROVIDE NEMA 14-30R RECEPTACLE PER MGF. RECOMMENDATION PROVIDE 30A, 4'C, NEMA 14-30P, DRYER POWER CORD
9. PROVIDE NEMA 14-20R RECEPTACLE PER MGF. RECOMMENDATION
10 PROVIDE GFCI CIRCUIT WITH EACH RECEPT AT TABLE OR COUNTER
11 PROVIDE RECEPT WITH NEMA CONFIGURATION PER MANUFACTURER.
12 PROVIDE NEMA 6-20R RECEPTACLE
* SUPPLIED BY KITCHEN CONTRACTOR, INSTALLED AND WIRED BY ELECTRICAL CONTRACTOR

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Sanford School Department and State of Maine Department of Education

SANFORD HIGH SCHOOL and TECHNICAL CENTER

SANFORD, ME 04073

NO.	DESCRIPTION	DATE

CONTENT:
CAFETERIA EQUIPMENT SCHEDULE

DRAWN BY:	C. NEWELL
PROJECT NO:	12-067-00
DATE:	02/11/2016
REVISED:	
SCALE:	NO SCALE

E2.52

Project Phase
BID DOCUMENTS

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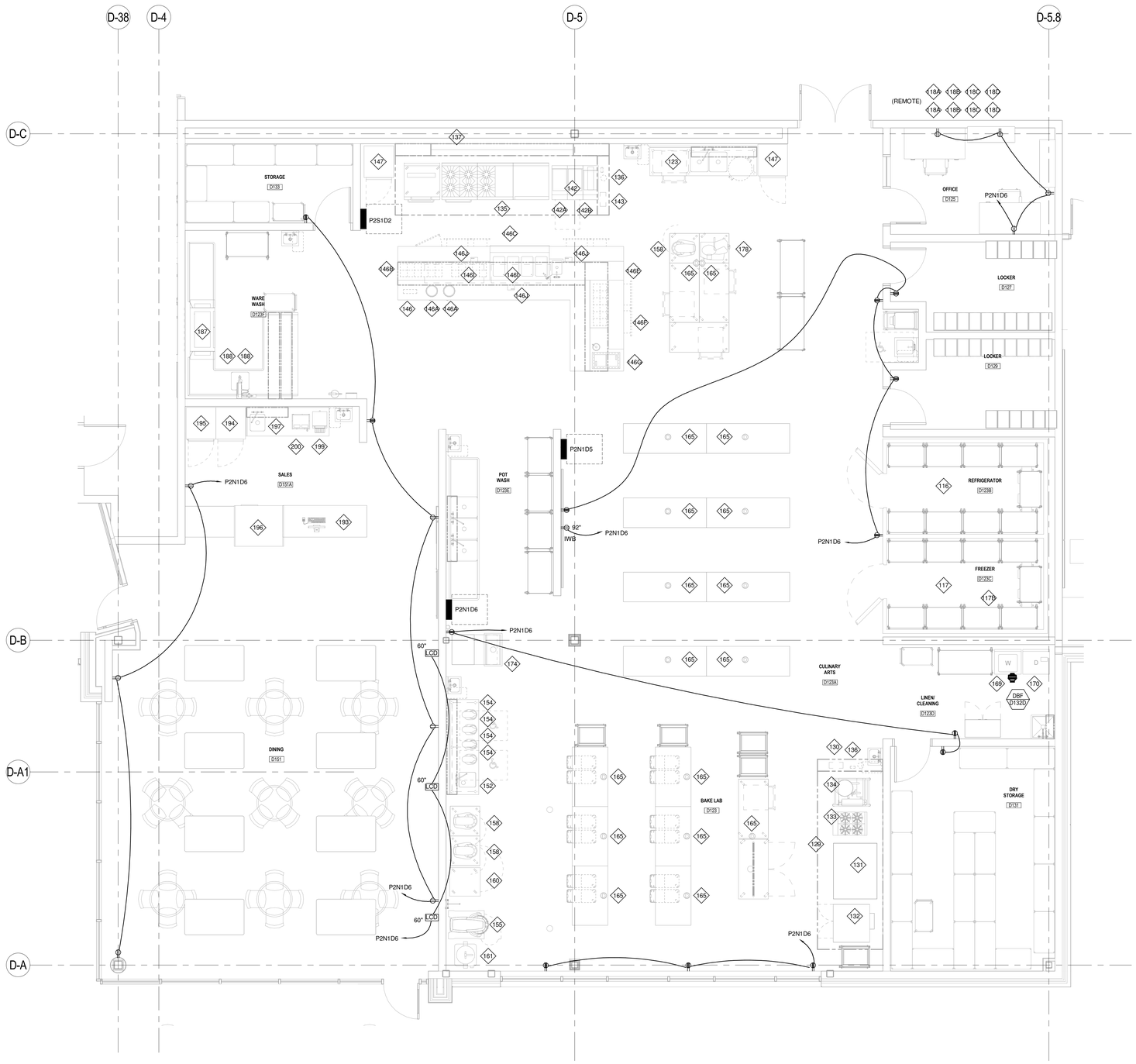
3. FOR TYPICAL ELEVATOR/FIRE ALARM CONTROL WIRING DIAGRAM, REFER TO DRAWING FA2.01.
4. REFER TO DRAWING T3.02 FOR INTERACTIVE WHITE BOARD OUTLET LAYOUT DETAIL. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATION OF INTERACTIVE WHITE BOARDS PRIOR TO THE INSTALLATION OF ANY CABLE OR CONDUIT.



1 LEVEL 1 - ENLARGED CULINARY POWER PART PLAN - AREA D
1/4" = 1'-0"

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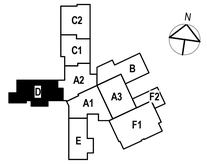
SANFORD HIGH SCHOOL and TECHNICAL CENTER

SANFORD, ME 04073

NO.	DESCRIPTION	DATE



CONTENT:
ENLARGED CULINARY POWER PART PLAN

DRAWN BY:	C. NEWELL
PROJECT NO:	12-067-00
DATE:	02/11/2016
REVISED:	
SCALE:	1/4" = 1'-0"

E2.61

Project Phase
BID DOCUMENTS

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DRAWING NOTES

1 THE FOLLOWING NOTES ONLY APPLY TO THIS DRAWING.

2 REFER TO GENERAL NOTES, ELECTRICAL TRADE NOTES, LEGEND AND ABBREVIATIONS ON DRAWING E0.01.

CULINARY KITCHEN EQUIPMENT SCHEDULE

EQUIPMENT								SUPPLY						ACCESSORIES	
										POWER WIRING FROM PANEL TO CONNECTION AND FROM CONNECTION TO EQUIPMENT					
ITEM NUMBER	QUAN.	EQUIPMENT	MINIMUM CIRCUIT AMPS	HP	KW	PH	SYSTEM VOLTS	PANEL DESIGNATION	CIRCUIT BREAKER	PHASE	GND	CONDUIT	MOUNTING HEIGHT (IN.)	EQUIPMENT CONNECTION NOTES	REFERENCE NOTES
116	1	WALK-IN COOLER LIGHTS, ETC.			1.3	1	120	P2S1D2	20/1	2-#12	1-#12 EG.	3/4"C	90	3	A, B, F
117	1	WALK-IN FREEZER LIGHTS, ETC.			1.5	1	120	P2S1D2	20/1	2-#12	1-#12 EG.	3/4"C	90	3	A, B, F
117B	1	WALK-IN FREEZER HEAT TRACE			1.2	1	120	P2S1D2	20/1	2-#12	1-#12 EG.	3/4"C	90	3	A, E
118A	2	COOLER CONDENSING UNIT	7.8			1	208	P2S1D2	20/2	3-#12	1-#12 EG.	3/4"C	90	3	A, B, E
118B	2	COOLER EVAPORATOR COIL	2			1	120	P2S1D2	20/1	2-#12	1-#12 EG.	3/4"C	90	3	A, B, E
118C	2	FREEZER CONDENSING UNIT	11.3			3	208	P2S1D2	20/3	4-#12	1-#12 EG.	3/4"C	90	3	A, B, E
118D	2	FREEZER EVAPORATOR COIL	8.2			1	208	P2S1D2	20/2	3-#12	1-#12 EG.	3/4"C	90	3	A, B, E
123	1	(2) GFCI RECPT CKTS AT PREP COUNTER	(2) 15			1	120	P2N1D5	20/1	2-#12	1-#12 EG.	3/4"C	36	5	A
129	1	EXHAUST VENTILATOR	3			1	120	FED FROM #130	-	2-#12	1-#12 EG.	3/4"C	72	3	A
130	1	VENTILATOR CONTROL SYSTEM	15			1	120	P2S1D2	20/1	2-#12	1-#12 EG.	3/4"C	44	3	A
131	1	DECK OVEN	72			3	208	P2N1D5	90/3	4-#2	1-#8 EG.	1 1/4"C	36	3	A
132	1	DOUBLE CONVECTION OVEN	8			1	120	P2N1D6	20/1	2-#12	1-#12 EG.	3/4"C	36	2	A
133	1	FOUR-BURNER RANGE	0.1			1	120	P2N1D6	20/1	2-#12	1-#12 EG.	3/4"C	36	2	A
134	1	FORTY-QUART KETTLE WITH STAND	1			1	120	P2N1D6	20/1	2-#12	1-#12 EG.	3/4"C	36	3	A
135	1	EXHAUST VENTILATOR				1	120	FED FROM #143	-	2-#12	1-#12 EG.	3/4"C	72	3	A, B
136	2	FIRE SUPPRESSION SYSTEM			-	1	120	P2S1D2	20/1	2-#12	1-#12 EG.	3/4"C	44	3, 6	I
137	1	UTILITY DISTRIBUTION SYSTEM	50			3	208	P2N1D5	50/3	4-#6	1-#10 EG.	1"C	36	3	A
142	1	FRYER ASSEMBLY WITH DUMP STATION	1.7			1	120	FED FROM #137	-	2-#12	1-#12 EG.	3/4"C	36	3	A
142A	1	FRYER ASSEMBLY WITH DUMP STATION	7			1	120	FED FROM #137	-	2-#12	1-#12 EG.	3/4"C	36	3	A
142B	1	FRYER ASSEMBLY HEAT LAMPS	6.3			1	120	FED FROM #137	-	2-#12	1-#12 EG.	3/4"C	36	3	A
143	1	VENTILATOR CONTROL SYSTEM	15			1	120	P2S1D2	20/1	2-#12	1-#12 EG.	3/4"C	44	3	A, C
146	1	CHEF'S COUNTER ASSEMBLY	150			3	208	P2N1D6	150/3	4#2/0	1-#6 EG.	2"C	36	3	A
146A	2	SOUP WELLS						FED FROM #146					-	3	PROVIDE EQUIPMENT & WIRING AS REQ'D
146B	1	PREP REFRIGERATOR						FED FROM #146					-	3	PROVIDE EQUIPMENT & WIRING AS REQ'D
146C	1	HOT FOOD TABLE						FED FROM #146					-	3	PROVIDE EQUIPMENT & WIRING AS REQ'D
146E	1	REFRIGERATED BASE						FED FROM #146					-	3	PROVIDE EQUIPMENT & WIRING AS REQ'D
146F	1	PREP REFRIGERATOR						FED FROM #146					-	3	PROVIDE EQUIPMENT & WIRING AS REQ'D
146G	1	DROP-IN ICE CREAM FREEZER						FED FROM #146					-	3	PROVIDE EQUIPMENT & WIRING AS REQ'D
146I	2	HEAT LAMPS						FED FROM #146					-	3	PROVIDE EQUIPMENT & WIRING AS REQ'D
146J	3	(3) POS STATIONS						FED FROM #146					-	3	PROVIDE EQUIPMENT & WIRING AS REQ'D
147	2	REACH-IN REFRIGERATOR	7			1	120	P2S1D2	20/1	2-#12	1-#12 EG.	3/4"C	36	2	A
152	1	(3) GFCI RECPT CKTS AT PREP COUNTER WITH SINK	(3) 15			1	120	P2N1D5	20/1	2-#12	1-#12 EG.	3/4"C	36	10	A
154	4	FIVE-QUART MIXER	2.9			1	120	P2N1D5	20/1	2-#12	1-#12 EG.	3/4"C	36	2	A
155	1	SIXTY-QUART MIXER	10			3	208	P2N1D5	20/3	4-#12	1-#12 EG.	3/4"C	36	3	A
158	3	TWENTY-QUART MIXER	8			1	120	P2N1D6	20/1	2-#12	1-#12 EG.	3/4"C	36	2	A
160	1	PROOFER CABINET	13.75			1	120	P2N1D6	20/1	2-#12	1-#12 EG.	3/4"C	36	2	A
161	1	DOUGH DIVIDER/ROUNDER	8			1	120	P2N1D6	20/1	2-#12	1-#12 EG.	3/4"C	36	2	A
165	17	POWER DROP CORDS	15			1	120	P2N1D6	20/1	2-#12	1-#12 EG.	3/4"C	96	2	PLUG IN AT CEILING
169	1	CLOTHES WASHER	20		1.8	1	120	P2N1D5	20/1	2-#12	1-#12 EG.	3/4"C	36	2	A
170	1	CLOTHES DRYER	30		4.8	1	208	P2N1D5	30/2	3-#10	1-#10 EG.	3/4"C	36	8	A
174	1	ICE MAKER	15.2			1	120	P2S1D2	20/1	2-#12	1-#12 EG.	3/4"C	18	3	A
178	1	SLICER	5			1	120	FED FROM #165	-	2-#12	1-#12 EG.	3/4"C	36	3	A
187	1	WAREWASHER	131			3	208	P2N1D6	150/3	4#2/0	1-#6 EG.	2"C	18	PROVIDE WP	A, B
188	2	EXHAUST DUCTS			-	-	-	-	-	-	-	-	-	-	J
193	1	(4) GFCI RECPT CKTS AT MILLWORK COUNTER	(4) 15			1	120	P2N1D6	20/1	2-#12	1-#12 EG.	3/4"C	36	2	A
194	1	REACH-IN REFRIGERATOR	7			1	120	P2S1D2	20/1	2-#12	1-#12 EG.	3/4"C	36	2	A
195	1	REACH-IN FREEZER	9.4			1	120	P2S1D2	20/1	2-#12	1-#12 EG.	3/4"C	36	2	A
196	1	COMBINATION DISPLAY CASE	10.7			1	120	P2N1D6	20/1	2-#12	1-#12 EG.	3/4"C	36	2	A
197	1	(2) GFCI RECPT CKTS AT WORK COUNTER	(2) 15			1	120	P2N1D6	20/1	2-#12	1-#12 EG.	3/4"C	36	2	A
199	1	CONVEYOR TOASTER	10.7			1	208	P2N1D5	20/2	3-#12	1-#12 EG.	3/4"C	36	7	A
200	1	COFFEE BREWER	23			1	208	P2N1D5	30/2	3-#10	1-#10 EG.	3/4"C	36	3	A

GENERAL NOTES:

1. ALL ACCESSORIES PROVIDED BY THE DIVISION 26 CONTRACTOR. UON
2. ALL CONTROL DEVICES ARE TO BE SURFACE MOUNTED, UNLESS OTHERWISE NOTED.
3. PROVIDE OVERLOADS, SIZE AS REQUIRED, BY THE DIVISION 16 CONTRACTOR
4. IF DIFFERENT THAN INDICATED ON THIS SCHEDULE OR PANELBOARD SCHEDULE, PROVIDE NEW CIRCUIT BREAKER IN DESIGNATED PANELBOARD SIZED PER EQUIPMENT NAMEPLATE DATA.

REFERENCE NOTES:

A. COORDINATE EXACT MOUNTING HEIGHT REQUIREMENTS WITH THE K.E.C.
B. PROVIDE DISCONNECT SWITCH AT THE UNIT, AS REQUIRED PER THE NEC
C. PROVIDE DISCONNECT SWITCH, SIZED AS REQUIRED, AHEAD OF CONTROL PANEL
D. CONTRACTOR SHALL WIRE DOOR SWITCH
E. CONTRACTOR SHALL PROVIDE CONTROL WIRING FROM EVAP TO CONDENSER & HEAT TRACE ON THE DRAIN
F. CONNECT TO FACTORY-MOUNTED JUNCTION BOX WITH PIGTAIL (SIZE FEED AS RERQUIRED PER THE MANUFACTURER)
G. CONNECT TO COUNTER JUNCTION BOX
H. PROVIDE CONNECTION(S) TO THE CONTROL PANEL
I. PROVIDE CONNECTION TO FIRE ALARM & EQUIPMENT SHUT DOWN SYSTEMS
J. ELECTRICAL SHALL CONNECT INTERLOCK WIRING WITH WAREWASHER
k. 200 AMP LOAD CENTER *

EQUIPMENT SPECIFIC NOTES

1. PROVIDE NEMA 5-20 RECEPTACLE - CORD & CAP (C&P)
2. PROVIDE NEMA 5-20 RECEPTACLE WITH GFCI CIRCUIT BREAKER
3. PROVIDE JUNCTION BOX (SIZE AS REQUIRED) & HARD WIRE THE EQUIPMENT
4. DROP DOWN FROM ABOVE WITH DROP CORD
5. PROVIDE TWO GFCI (CIRCUITS) RECEPTACLES AT TABLE
6. CONNECT AS REQ'D TO FIRE ALARM SYSTEM
7. PROVIDE NEMA 6-15R RECEPTACLE PER MGF. RECOMMENDATION
8. PROVIDE NEMA 6-30R RECEPTACLE PER MGF. RECOMMENDATION
9. PROVIDE NEMA 14-20R RECEPTACLE PER MGF. RECOMMENDATION
10 PROVIDE THREE GFCI (CIRCUITS) RECEPTACLES AT TABLE
11 PROVIDE RECEPTACLE, CONFIGURATION AS REQUIRED, PER THE MANUFACTURER
12 PROVIDE NEMA 6-50R RECEPTACLE PER MGF. RECOMMENDATION
13 PROVIDE NEMA L5-15R RECEPTACLE PER MGF. RECOMMENDATION
* SUPPLIED BY KITCHEN CONTRACTOR, INSTALLED AND WIRED BY ELECTRICAL CONTRACTOR

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Sanford School Department and State of Maine Department of Education

SANFORD HIGH SCHOOL and TECHNICAL CENTER

SANFORD, ME 04073

NO.	DESCRIPTION	DATE

CONTENT:
CULINARY EQUIPMENT SCHEDULE

DRAWN BY:	C. NEWELL
PROJECT NO:	12-067-00
DATE:	02/11/2016
REVISED:	
SCALE:	NO SCALE

E2.62

Project Phase
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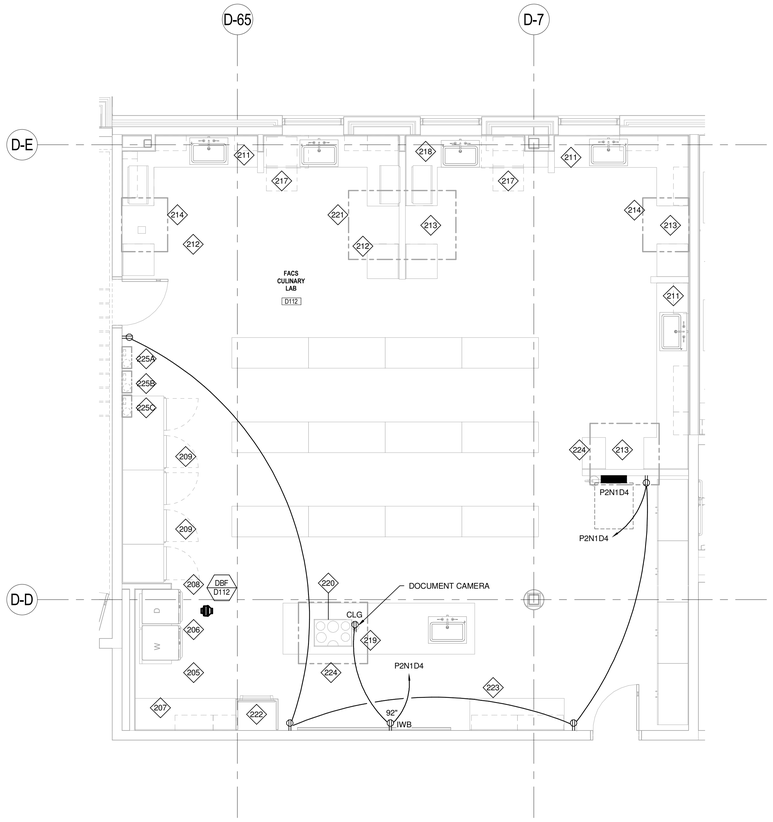
DRAWING NOTES

1. THE FOLLOWING NOTES ONLY APPLY TO THIS DRAWING.
2. REFER TO GENERAL NOTES, ELECTRICAL TRADE NOTES, LEGEND AND ABBREVIATIONS ON DRAWING E0.01.
3. FOR TYPICAL ELEVATOR/FIRE ALARM CONTROL WIRING DIAGRAM, REFER TO DRAWING FA2.01.
4. REFER TO DRAWING T3.02 FOR INTERACTIVE WHITE BOARD OUTLET LAYOUT DETAIL. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATION OF INTERACTIVE WHITE BOARDS PRIOR TO THE INSTALLATION OF ANY CABLE OR CONDUIT.



1 LEVEL 1 - ENLARGED FACS CULINARY POWER PART PLAN - AREA D
1/4" = 1'-0"

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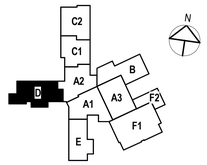
NO.	DESCRIPTION	DATE



CONTENT:
ENLARGED FACS CULINARY POWER PART PLAN

DRAWN BY:	C. NEWELL
PROJECT NO:	12-067-00
DATE:	02/11/2016
REVISED:	
SCALE:	1/4" = 1'-0"

E2.71

Project Phase
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DRAWING NOTES

1 THE FOLLOWING NOTES ONLY APPLY TO THIS DRAWING.

2 REFER TO GENERAL NOTES, ELECTRICAL TRADE NOTES, LEGEND AND ABBREVIATIONS ON DRAWING E0.01.

FACS CULINARY LAB EQUIPMENT SCHEDULE

EQUIPMENT								SUPPLY						ACCESSORIES	
										POWER WIRING FROM PANEL TO CONNECTION AND FROM CONNECTION TO EQUIPMENT					
ITEM NUMBER	QUAN.	EQUIPMENT	MINIMUM CIRCUIT AMPS	HP	KW	PH	SYSTEM VOLTS	PANEL DESIGNATION	CIRCUIT BREAKER	PHASE	GND	CONDUIT	MOUNTING HEIGHT (IN.)	EQUIPMENT CONNECTION NOTES	REFERENCE NOTES
205	1	STACKED WASHER	20		1.8	1	120	P2N1D4	20/1	2-#12	1-#12 EG.	3/4"C	36	2	A, B
206	1	STACKED DRYER	30		4.8	1	208	P2N1D4	30/2	2-#10	1-#10 EG.	3/4"C	36	8	A, B
207	1	(2) GFCI RECPT CKTS AT MILLWORK COUNTER	15		1.8	1	120	P2N1D4	20/1	2-#12	1-#12 EG.	3/4"C	36	5	A, B
208	1	REACH-IN FREEZER	9.4		1.13	1	120	P2S1D2	20/1	2-#12	1-#12 EG.	3/4"C	36	2	A, B
209	2	REACH-IN REFRIGERATOR	8.2		0.98	1	120	P2S1D2	20/1	2-#12	1-#12 EG.	3/4"C	36	2	A, B
211	3	(4) GFCI RECPT CKTS AT MILLWORK COUNTER	15		1.8	1	120	P2N1D4	20/1	2-#12	1-#12 EG.	3/4"C	36	12	A, B
212	2	RESIDENTIAL GAS RANGE WITH OVEN	15		1.8	1	120	P2N1D4	20/1	2-#12	1-#12 EG.	3/4"C	36	2	A, B
213	3	RESIDENTIAL ELECTRIC RANGE WITH OVEN	40			1	208	P2N1D4	40/2	3-#8	1-#10 EG.	3/4"C	36	3	A, B
214	2	EXHAUST VENTILATORS - LIGHTS			0.1	1	120	P2N1D4	20/1	2-#12	1-#12 EG.	3/4"C	72	3	A, B
217	2	UNDERCOUNTER WAREWASHER	30.5			1	208	P2N1D4	40/2	3-#8	1-#10 EG.	3/4"C	18	3	A, B
218	1	(3) GFCI RECPT CKTS AT MILLWORK COUNTER	15		1.8	1	120	P2N1D4	20/1	2-#12	1-#12 EG.	3/4"C	36	10	A, B
219	1	(2) GFCI RECPT CKTS AT MILLWORK COUNTER	15		1.8	1	120	P2N1D4	20/1	2-#12	1-#12 EG.	3/4"C	36	5	A, B
220	1	DROP-IN ELECTRIC RANGE TOP	30.4			1	208	P2N1D4	40/2	3-#8	1-#10 EG.	3/4"C	36	3	A, B
221	1	EXHAUST VENTILATORS - LIGHTS			0.40	1	120	P2N1D4	20/1	2-#12	1-#12 EG.	3/4"C	72	3	A, B
222	1	RESIDENTIAL ELECTRIC WALL OVEN	20			1	208	P2N1D4	20/2	3-#10	1-#10 EG.	3/4"C	36	3	A, B
223	1	(2) GFCI RECPT CKTS AT MILLWORK COUNTER	15		1.8	1	120	P2N1D4	20/1	2-#12	1-#12 EG.	3/4"C	36	5	A, B
224	2	EXHAUST VENTILATORS - LIGHTS			0.30	1	120	P2N1D4	20/1	2-#12	1-#12 EG.	3/4"C	72	3	A, B
225A	1	FIRE SUPPRESSION SYSTEM			-	1	120	P2S1D2	20/1	2-#12	1-#12 EG.	3/4"C	72	3, 6	H
225B	1	FIRE SUPPRESSION SYSTEM			-	1	120	P2S1D2	20/1	2-#12	1-#12 EG.	3/4"C	72	3, 6	H
225C	1	FIRE SUPPRESSION SYSTEM			-	1	120	P2S1D2	20/1	2-#12	1-#12 EG.	3/4"C	72	3, 6	H

GENERAL NOTES:

1. ALL ACCESSORIES PROVIDED BY THE DIVISION 26 CONTRACTOR. UON
2. ALL CONTROL DEVICES ARE TO BE SURFACE MOUNTED, UNLESS OTHERWISE NOTED.
3. PROVIDE OVERLOADS, SIZE AS REQUIRED, BY THE DIVISION 16 CONTRACTOR
4. IF DIFFERENT THAN INDICATED ON THIS SCHEDULE OR PANELBOARD SCHEDULE, PROVIDE NEW CIRCUIT BREAKER IN DESIGNATED PANELBOARD SIZED PER EQUIPMENT NAMEPLATE DATA.

REFERENCE NOTES:

A. COORDINATE EXACT MOUNTING HEIGHT REQUIREMENTS WITH THE K.E.C.
B. PROVIDE DISCONNECT SWITCH AT THE UNIT, AS REQUIRED PER THE NEC.
C. PROVIDE DISCONNECT SWITCH, SIZED AS REQUIRED, AHEAD OF CONTROL PANEL
D. CONTRACTOR SHALL WIRE DOOR SWITCH
E. CONTRACTOR SHALL PROVIDE CONTROL WIRING FROM EVAP TO CONDENSER & HEAT TRACE ON THE DRAIN
F. CONNECT TO FACTORY-MOUNTED JUNCTION BOX WITH PIGTAIL (SIZE FEED AS REQUIRED PER THE MANUFACTURER)
G. CONNECT TO COUNTER JUNCTION BOX
H. PROVIDE CONNECTION TO FIRE ALARM & EQUIPMENT SHUT DOWN SYSTEMS

EQUIPMENT CONNECTION NOTES

1. PROVIDE NEMA 5-20 RECEPTACLE - CORD & CAP (C&P)
2. PROVIDE NEMA 5-20 RECEPTACLE WITH GFCI CIRCUIT BREAKER
3. PROVIDE JUNCTION BOX (SIZE AS REQUIRED) & HARD WIRE THE EQUIPMENT
4. DROP DOWN FROM ABOVE WITH DROP CORD
5. PROVIDE TWO GFCI (CIRCUITS) RECEPTACLES AT TABLE
6. CONNECT AS REQ'D TO FIRE ALARM SYSTEM
7. PROVIDE NEMA 6-15R RECEPTACLE PER MGF. RECOMMENDATION
8. PROVIDE NEMA 6-30R RECEPTACLE PER MGF. RECOMMENDATION
9. PROVIDE NEMA 14-50R RECEPTACLE PER MGF. RECOMMENDATION
10 PROVIDE THREE GFCI (CIRCUITS) RECEPTACLES AT TABLE
11 PROVIDE RECEPTACLE, CONFIGURATION AS REQUIRED, PER THE MANUFACTURER
12 PROVIDE FOUR GFCI (CIRCUITS) RECEPTACLES AT TABLE
* SUPPLIED BY KITCHEN CONTRACTOR, INSTALLED AND WIRED BY ELECTRICAL CONTRACTOR

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SANFORD HIGH SCHOOL and TECHNICAL CENTER

SANFORD, ME 04073

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CONTENT: FACS CULINARY EQUIPMENT SCHEDULE

DRAWN BY:	C. NEWELL
PROJECT NO:	12-067-00
DATE:	02/11/2016
REVISED:	
SCALE:	NO SCALE

E2.72

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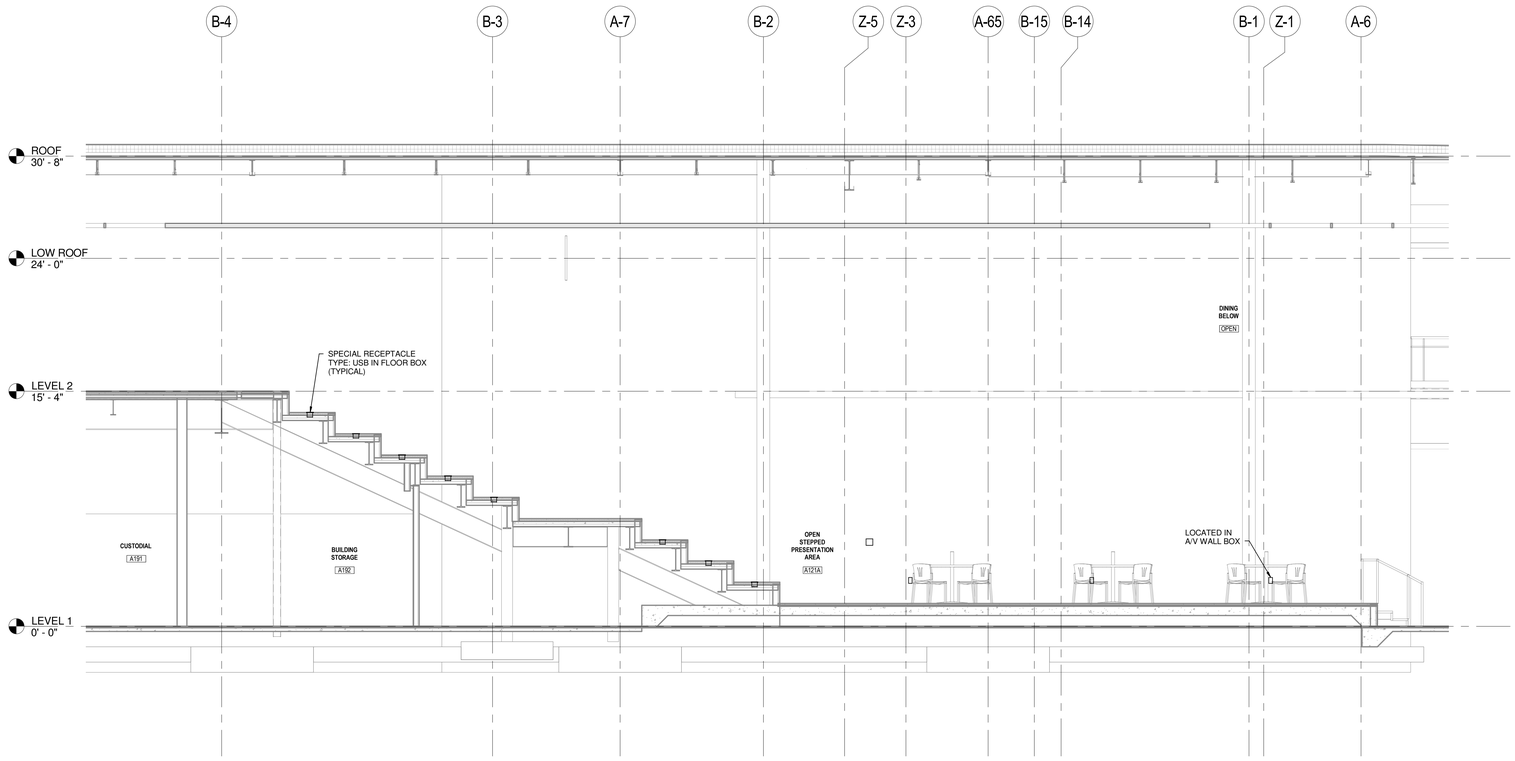

1 POWER SECTION - OPEN STEPPED PRESENTATION AREA - A121A - SOUTH WALL - AREA A3
1/4" = 1'-0"

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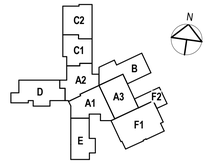

CONTENT:
POWER SECTIONS

DRAWN BY:	C. NEWELL
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DATE:	02/11/2016
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E2.81

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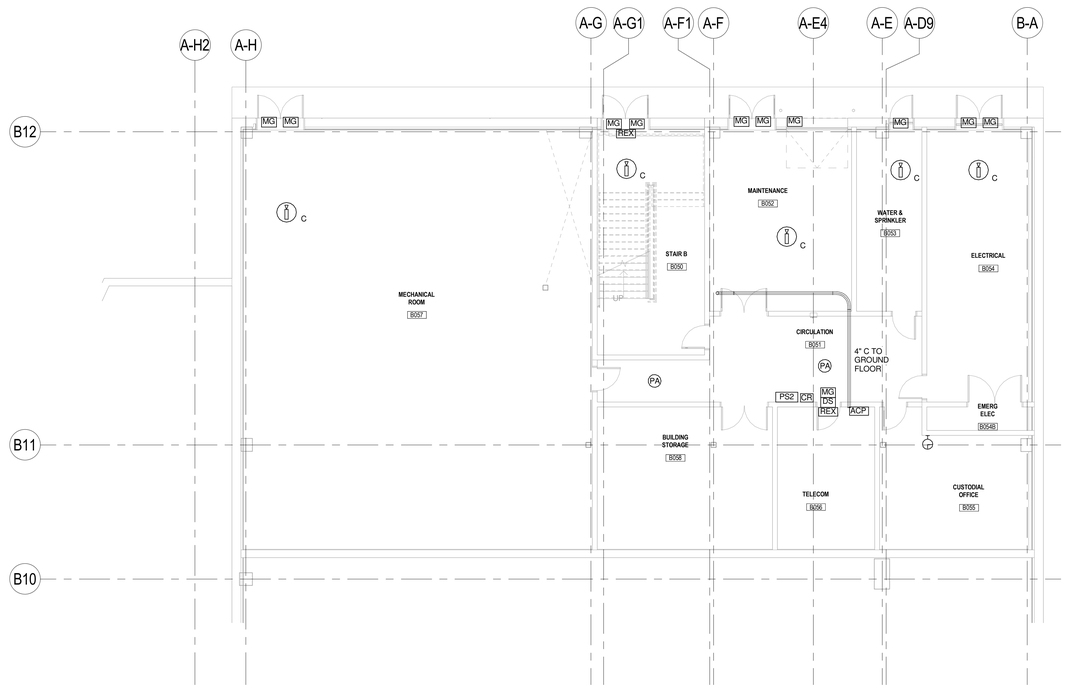

1 BASEMENT - SYSTEMS PLAN
1/8" = 1'-0"

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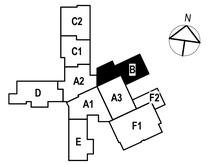

CONTENT:
BASEMENT SYSTEMS PLAN

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PROJECT NO:	12-067-00
DATE:	02/11/2016
REVISED:	
SCALE:	1/8" = 1'-0"

E3.09

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DRAWING NOTES
(A-F1)

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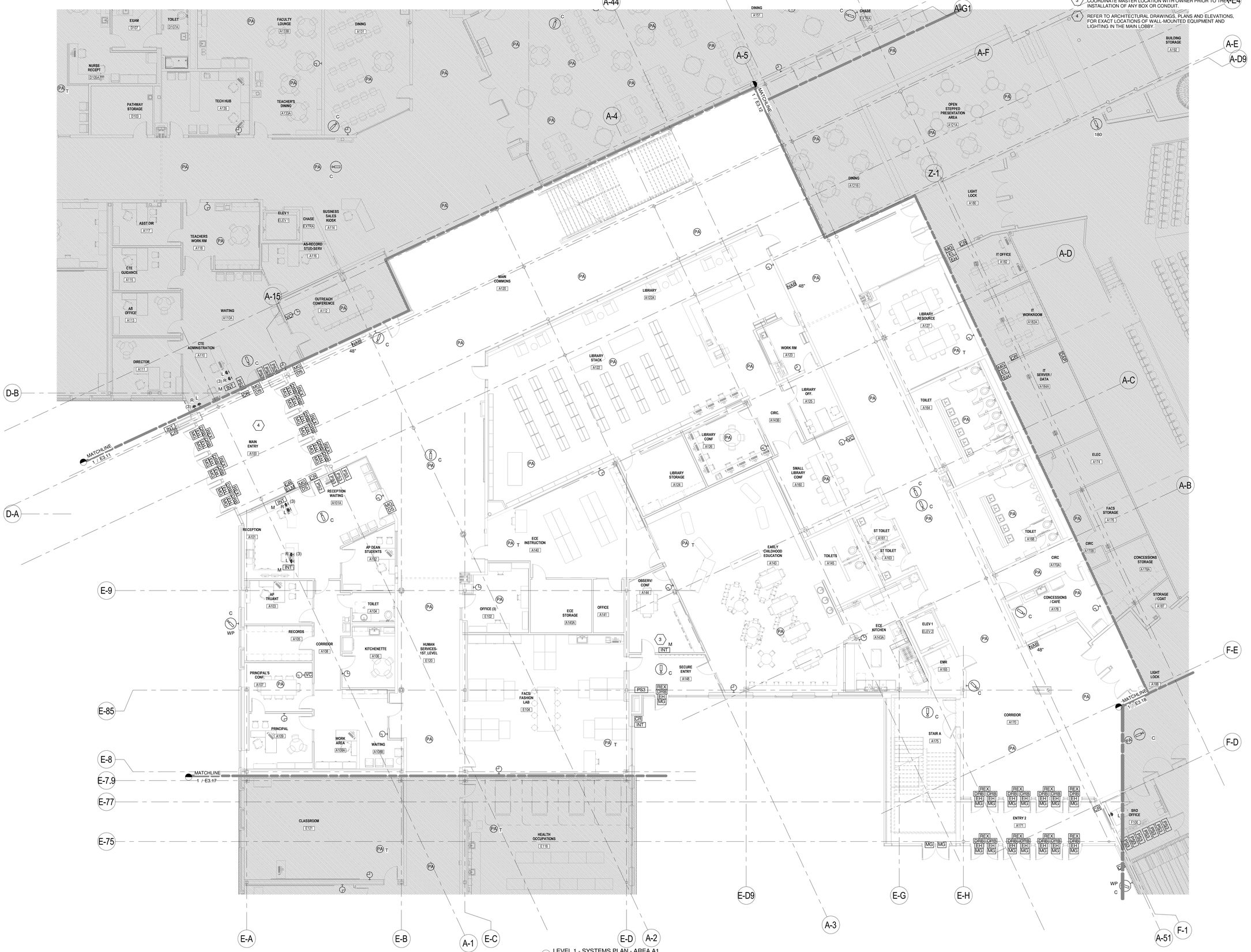
3. COORDINATE MASTER LOCATION WITH OWNER PRIOR TO THE INSTALLATION OF ANY BOX OR CONDUIT.
4. REFER TO ARCHITECTURAL DRAWINGS, PLANS AND ELEVATIONS, FOR EXACT LOCATIONS OF WALL-MOUNTED EQUIPMENT AND LIGHTING IN THE MAIN LOBBY.



1 LEVEL 1 - SYSTEMS PLAN - AREA A1
1/8" = 1'-0"

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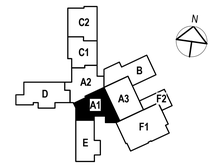

CONTENT:
FIRST FLOOR SYSTEMS PLAN - AREA A1

DRAWN BY:	C. NEWELL
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DATE:	02/11/2016
REVISED:	
SCALE:	1/8" = 1'-0"

E3.10

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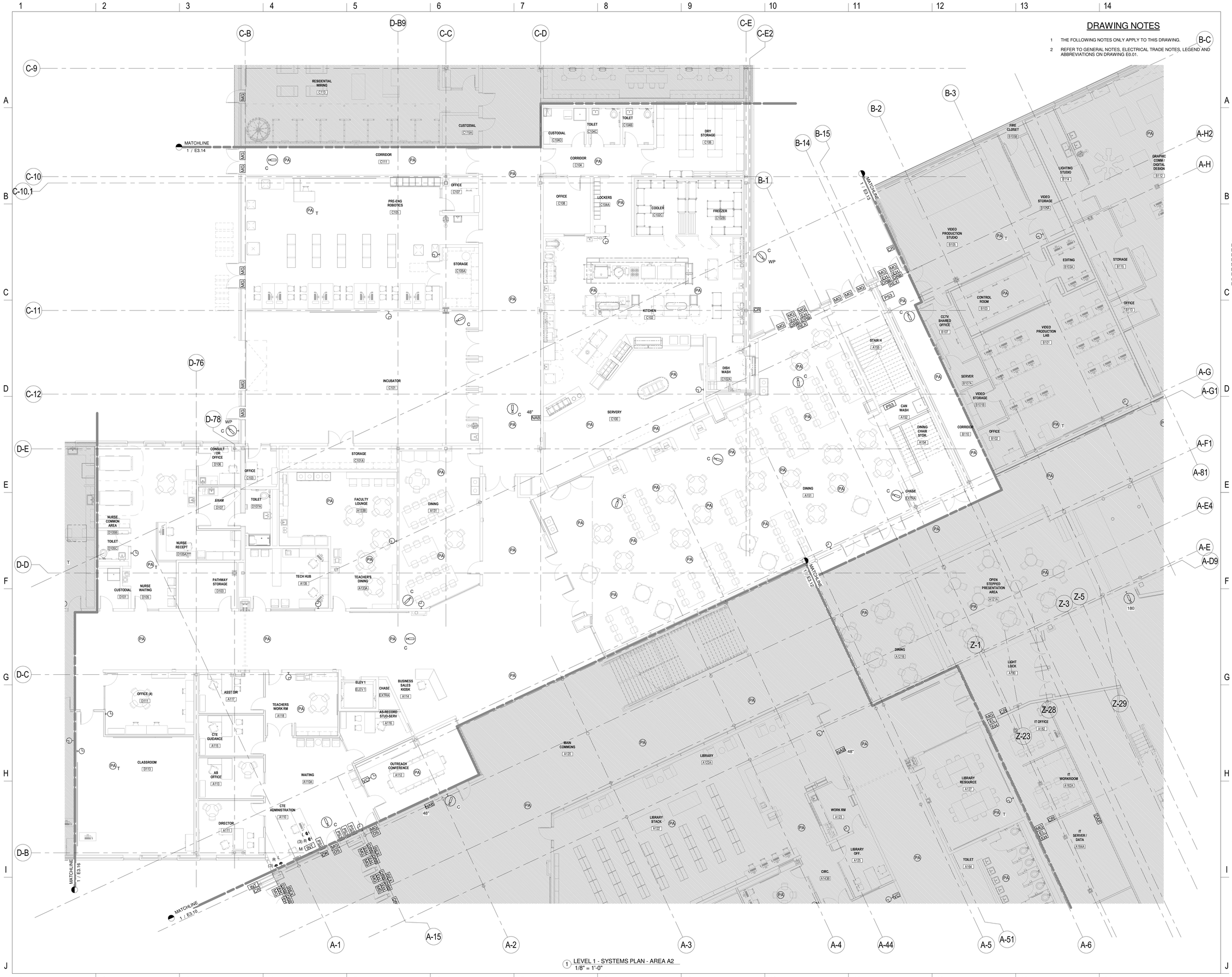

1 LEVEL 1 - SYSTEMS PLAN - AREA A2
1/8" = 1'-0"

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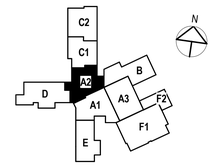

CONTENT:
FIRST FLOOR SYSTEMS PLAN - AREA A2

DRAWN BY:	C. NEWELL
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DATE:	02/11/2016
REVISED:	
SCALE:	1/8" = 1'-0"

E3.11

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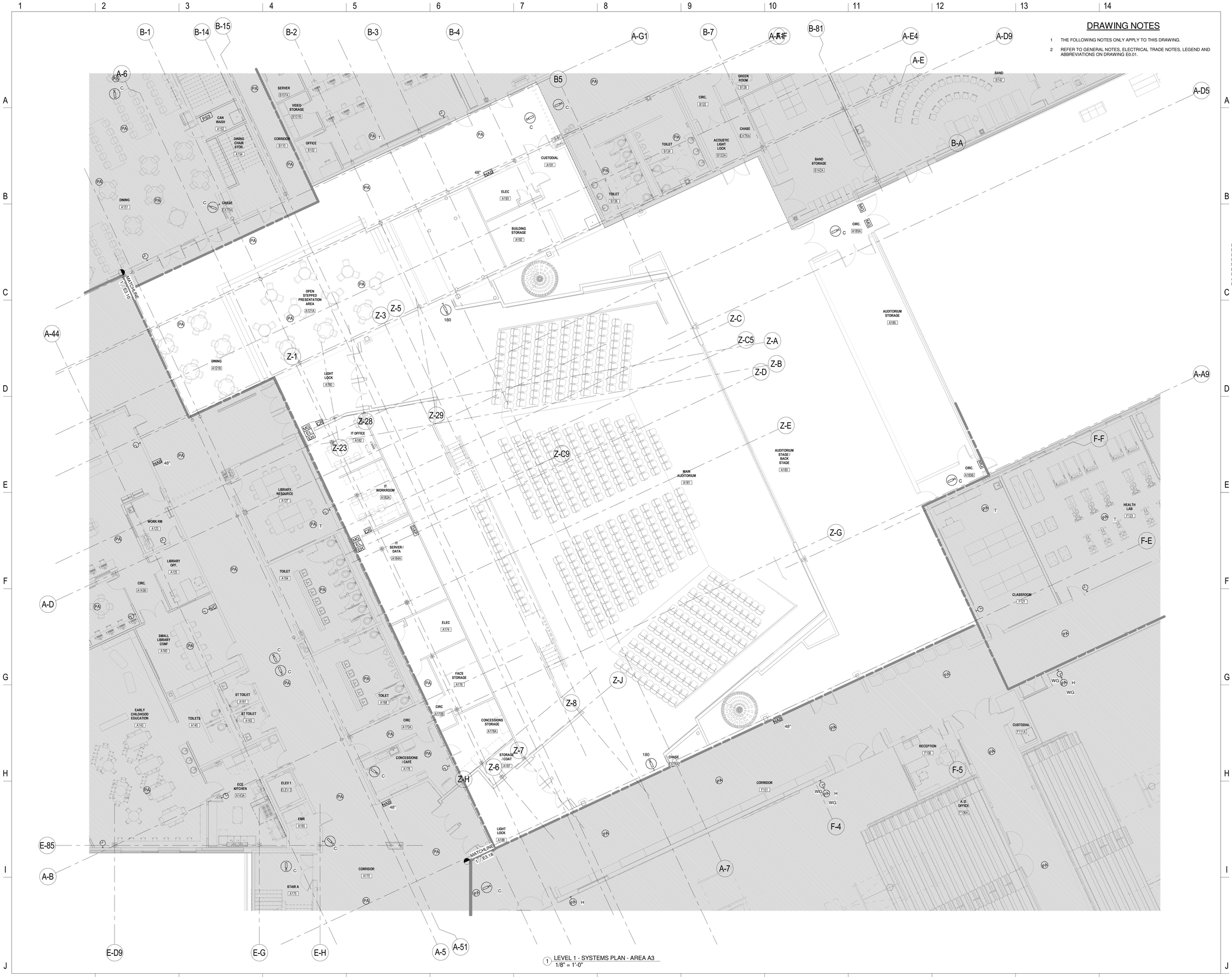

1 LEVEL 1 - SYSTEMS PLAN - AREA A3
1/8" = 1'-0"

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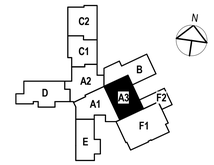

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FIRST FLOOR SYSTEMS PLAN - AREA A3

DRAWN BY:	C. NEWELL
PROJECT NO:	12-067-00
DATE:	02/11/2016
REVISED:	
SCALE:	1/8" = 1'-0"

E3.12

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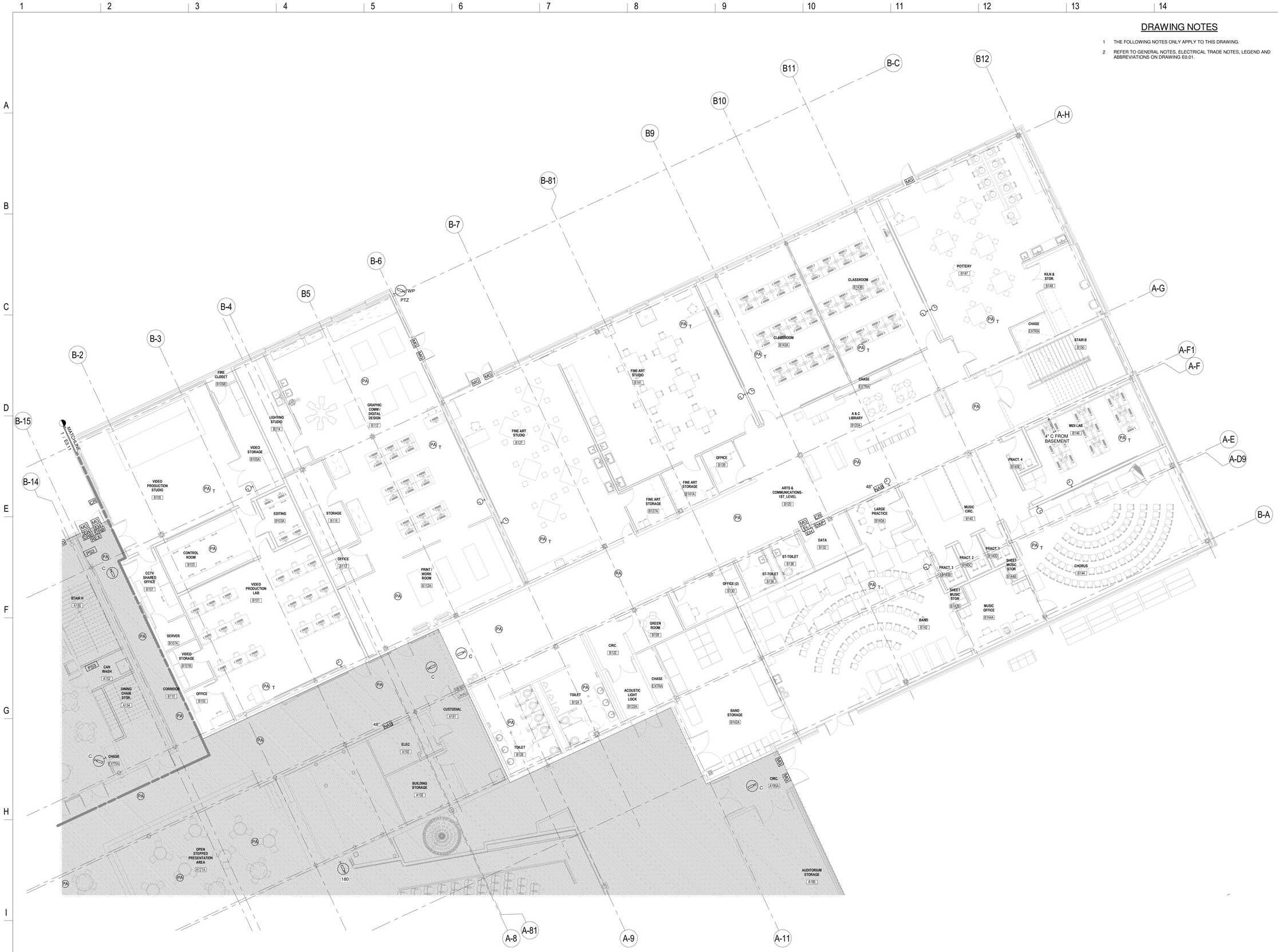

1 LEVEL 1 - SYSTEMS PLAN - AREA B
1/8" = 1'-0"

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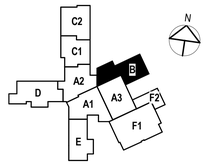

CONTENT:
FIRST FLOOR SYSTEMS PLAN - AREA B

DRAWN BY:	C. NEWELL
PROJECT NO:	12-067-00
DATE:	02/11/2016
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SCALE:	1/8" = 1'-0"

E3.13

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1 LEVEL 1 - SYSTEMS PLAN - AREA C1
1/8" = 1'-0"

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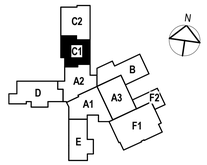

CONTENT:
FIRST FLOOR SYSTEMS PLAN - AREA C1

DRAWN BY:	C. NEWELL
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DATE:	02/11/2016
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SCALE:	1/8" = 1'-0"

E3.14

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1 LEVEL 1 - SYSTEMS PLAN - AREA C2
1/8" = 1'-0"

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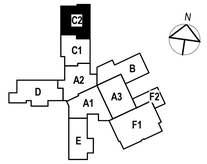

CONTENT:
FIRST FLOOR SYSTEMS PLAN - AREA C2

DRAWN BY:	C. NEWELL
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DATE:	02/11/2016
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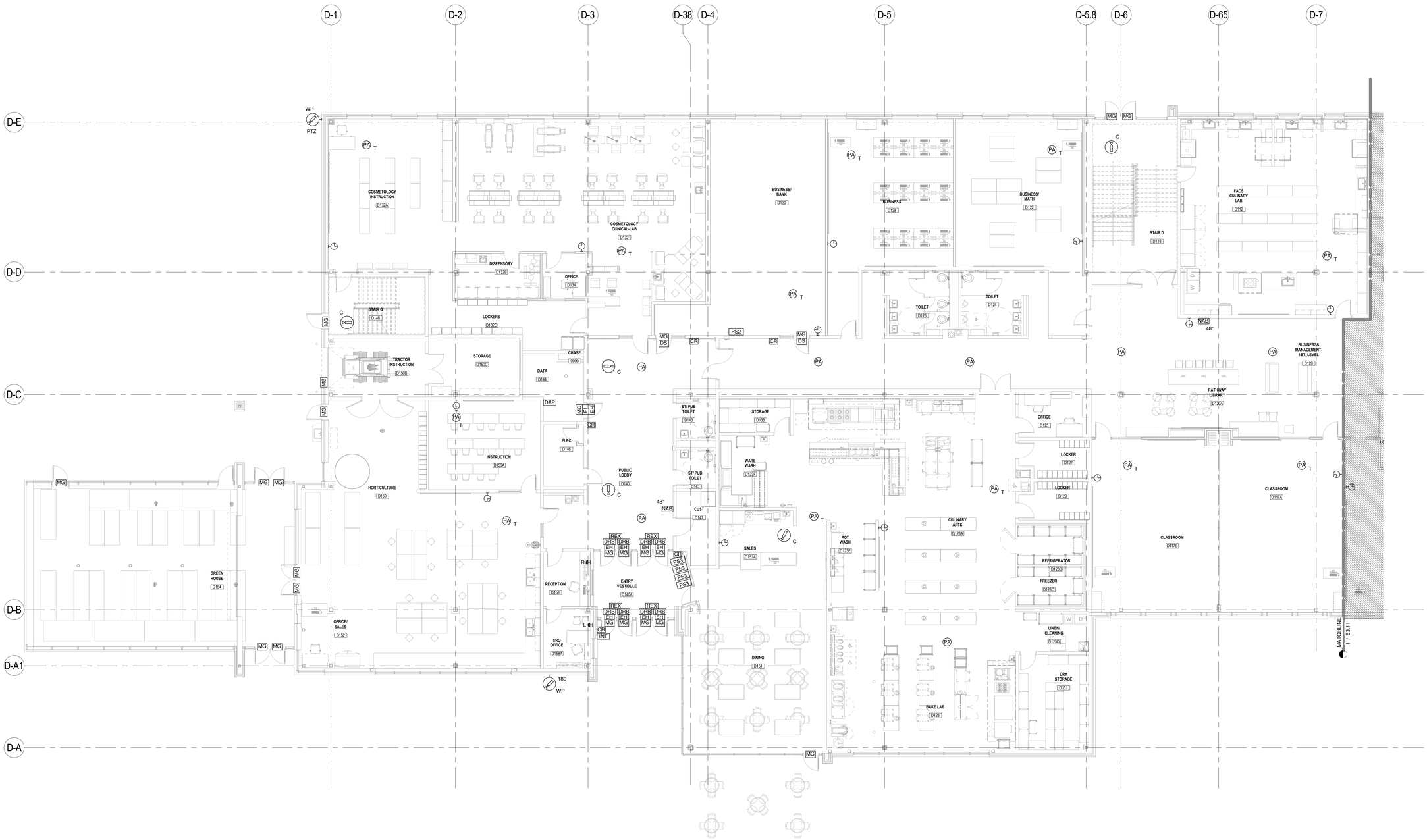

1 LEVEL 1 - SYSTEMS PLAN - AREA D
1/8" = 1'-0"

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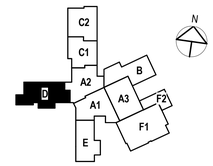

CONTENT:
FIRST FLOOR SYSTEMS PLAN - AREA D

DRAWN BY:	C. NEWELL
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DATE:	02/11/2016
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SCALE:	1/8" = 1'-0"

E3.16

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1 LEVEL 1 - SYSTEMS PLAN - AREA E
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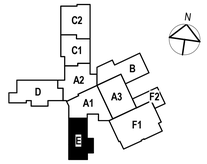

CONTENT:
FIRST FLOOR SYSTEMS PLAN - AREA E

DRAWN BY:	C. NEWELL
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E3.17

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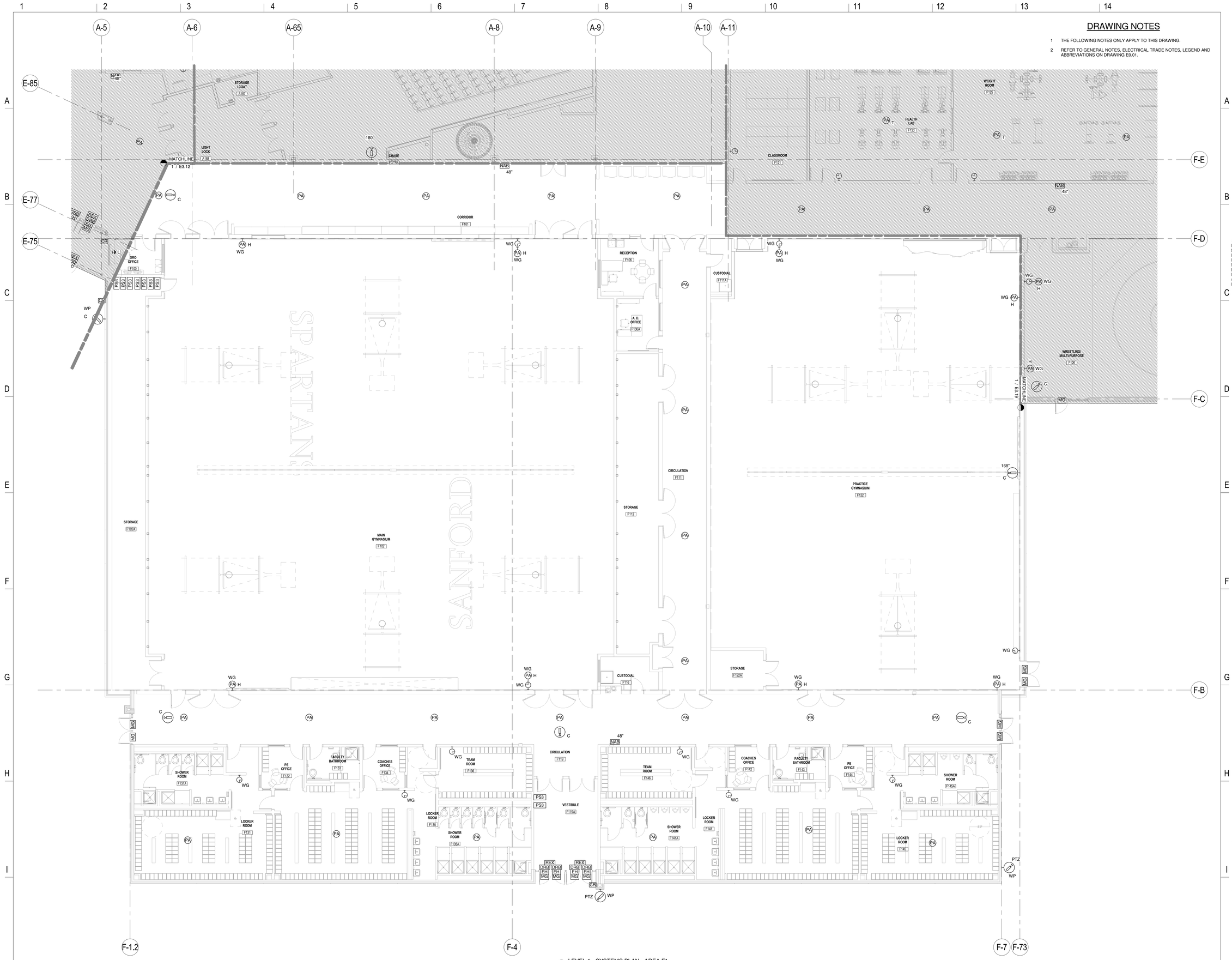

1 LEVEL 1 - SYSTEMS PLAN - AREA F1
1/8" = 1'-0"

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No. 10697
LICENSED
PROFESSIONAL ENGINEER

Sanford School Department and State of Maine Department of Education

SANFORD HIGH SCHOOL and TECHNICAL CENTER

SANFORD, ME 04073

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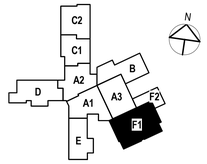

CONTENT:
FIRST FLOOR SYSTEMS PLAN - AREA F1

DRAWN BY:	C. NEWELL
PROJECT NO:	12-067-00
DATE:	02/11/2016
REVISED:	
SCALE:	1/8" = 1'-0"

E3.18

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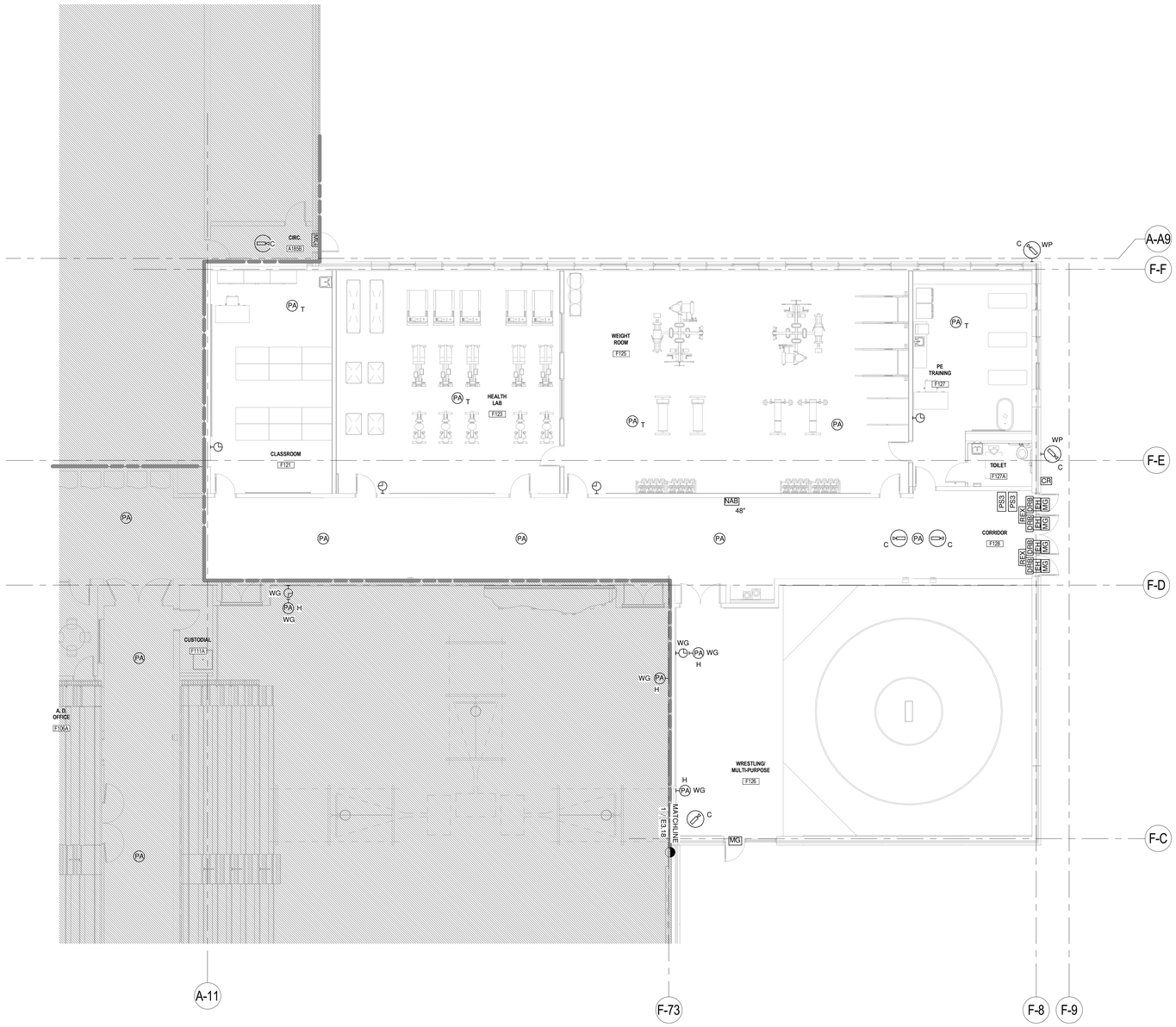

1 LEVEL 1 - SYSTEMS PLAN - AREA F2
1/8" = 1'-0"

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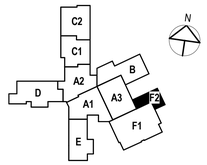

CONTENT:
FIRST FLOOR SYSTEMS PLAN - AREA F2

DRAWN BY:	C. NEWELL
PROJECT NO:	12-067-00
DATE:	02/11/2016
REVISED:	
SCALE:	1/8" = 1'-0"

E3.19

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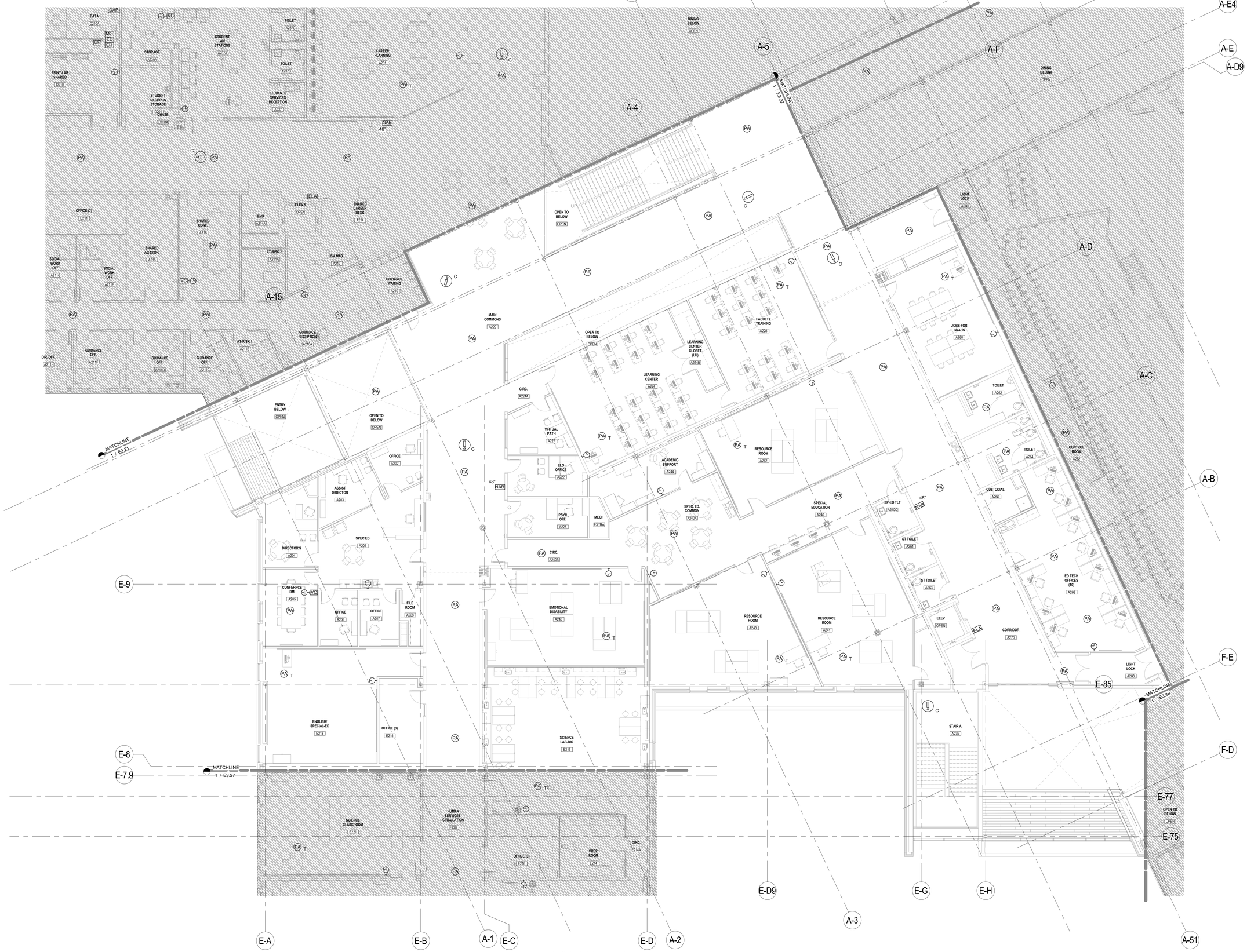

1 LEVEL 2 - SYSTEMS PLAN - AREA A1
1/8" = 1'-0"

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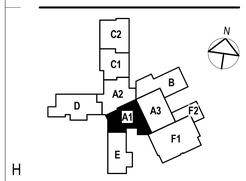

CONTENT:
SECOND FLOOR SYSTEMS PLAN - AREA A1

DRAWN BY:	C. NEWELL
PROJECT NO:	12-067-00
DATE:	02/11/2016
REVISED:	
SCALE:	1/8" = 1'-0"

E3.20

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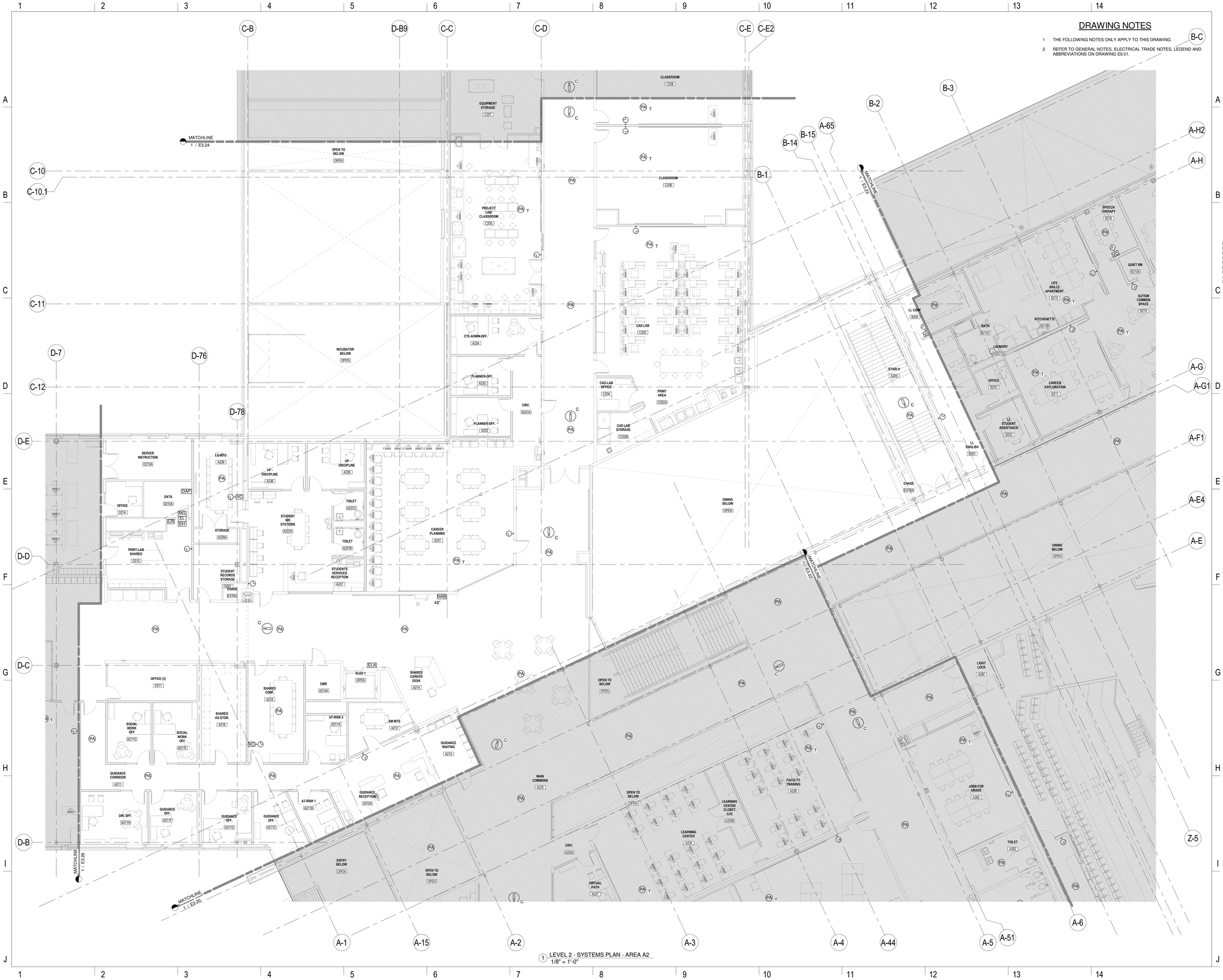

1 LEVEL 2 - SYSTEMS PLAN - AREA A2
1/8" = 1'-0"

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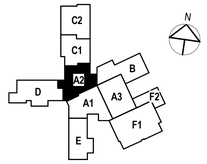

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CONTENT:
SECOND FLOOR SYSTEMS PLAN - AREA A2

DRAWN BY:	C. NEWELL
PROJECT NO:	12-067-00
DATE:	02/11/2016
REVISED:	
SCALE:	1/8" = 1'-0"

E3.21

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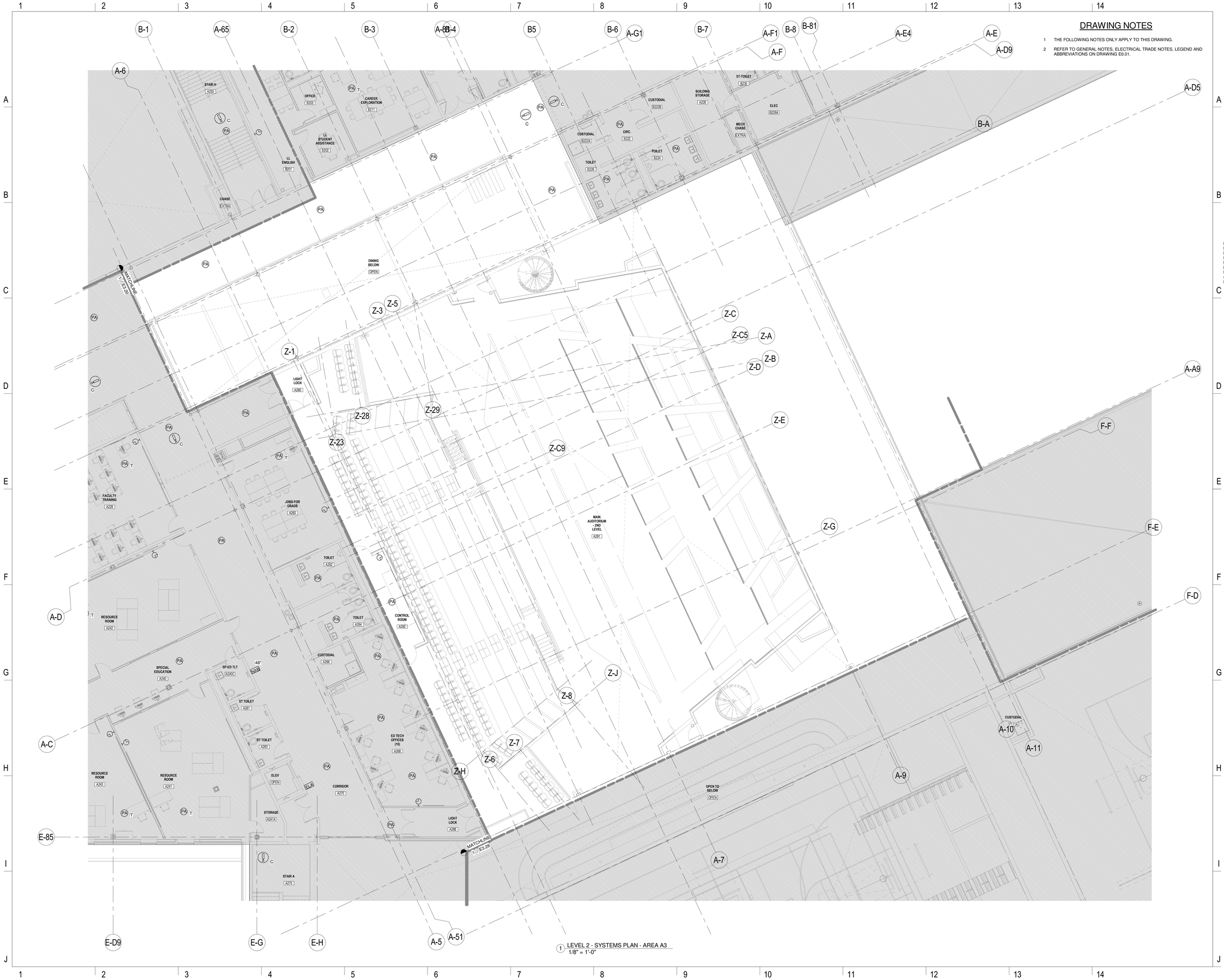

1 LEVEL 2 - SYSTEMS PLAN - AREA A3
1/8" = 1'-0"

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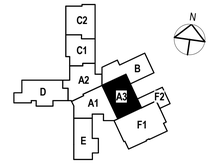

CONTENT:
SECOND FLOOR SYSTEMS PLAN - AREA A3

DRAWN BY:	C. NEWELL
PROJECT NO:	12-067-00
DATE:	02/11/2016
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SCALE:	1/8" = 1'-0"

E3.22

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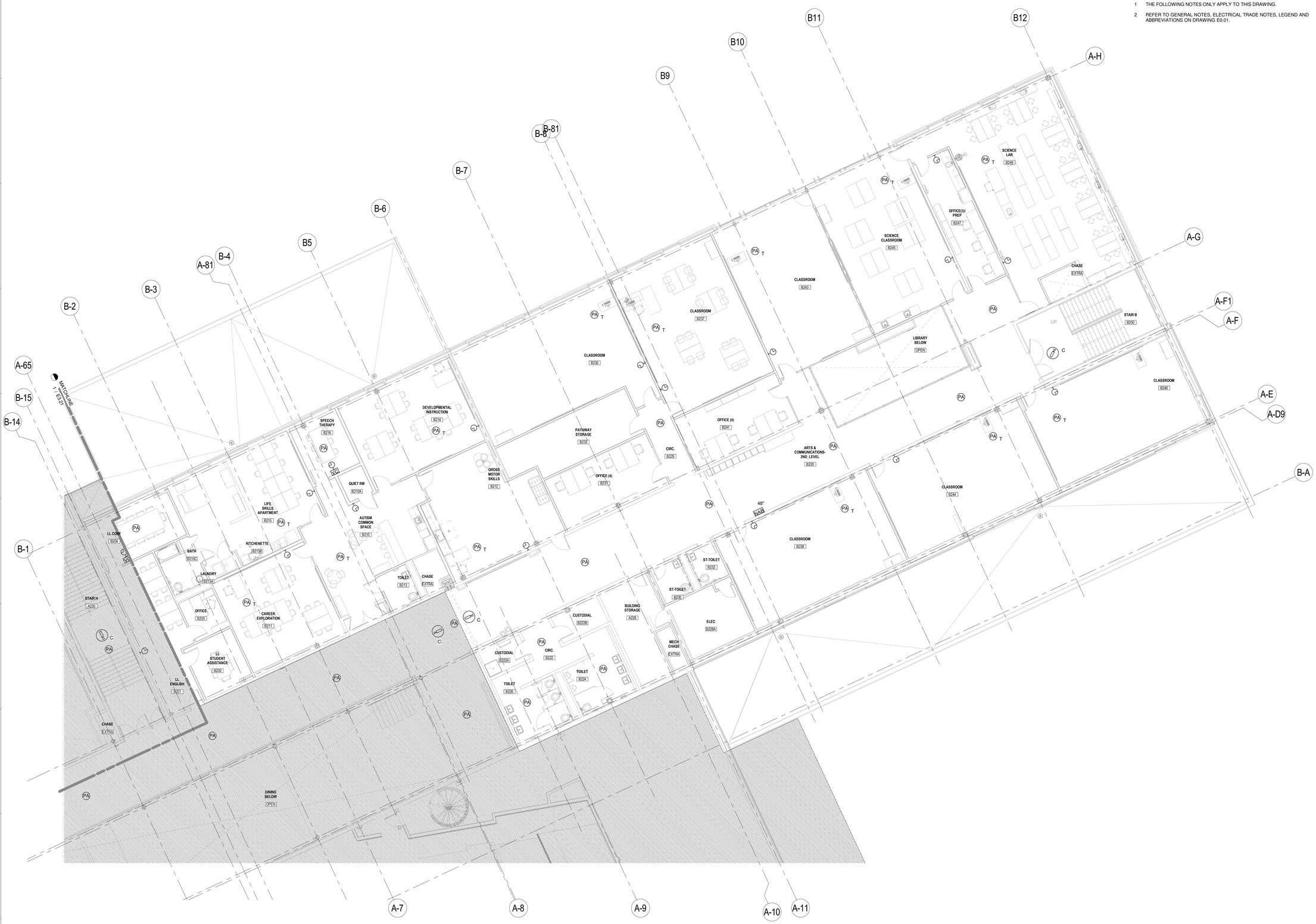

1 LEVEL 2 - SYSTEMS PLAN - AREA B
1/8" = 1'-0"

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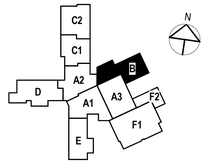

CONTENT:
SECOND FLOOR SYSTEMS PLAN - AREA B

DRAWN BY:	C. NEWELL
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DATE:	02/11/2016
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1 LEVEL 2 - SYSTEMS PLAN - AREA C1
1/8" = 1'-0"

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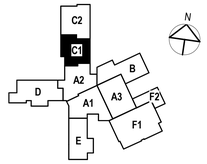

CONTENT:
SECOND FLOOR SYSTEMS PLAN - AREA C1

DRAWN BY:	C. NEWELL
PROJECT NO:	12-067-00
DATE:	02/11/2016
REVISED:	
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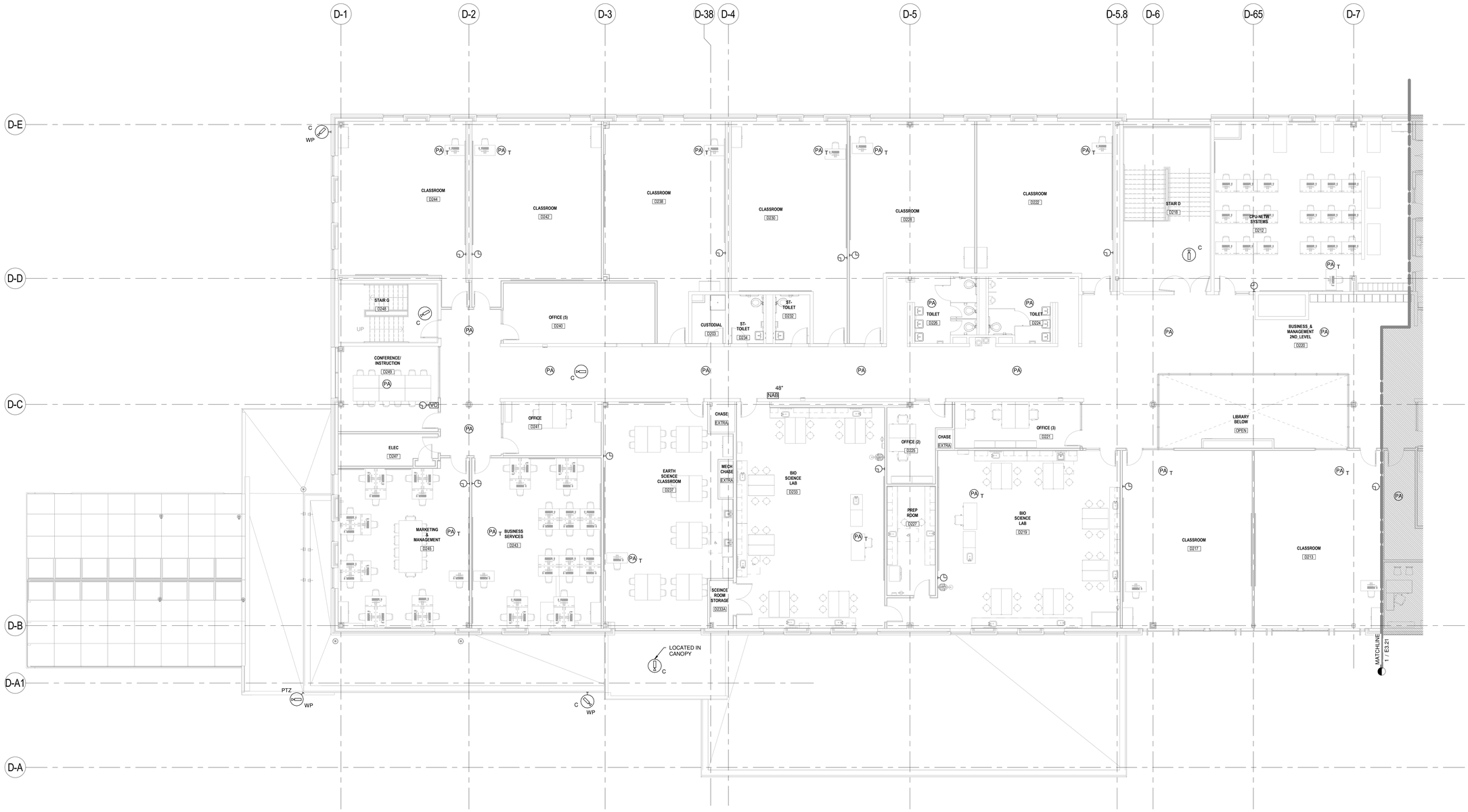

1 LEVEL 2 - SYSTEMS PLAN - AREA D
1/8" = 1'-0"

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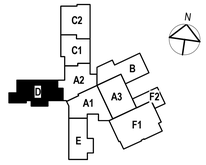

CONTENT:
SECOND FLOOR SYSTEMS PLAN - AREA D

DRAWN BY:	C. NEWELL
PROJECT NO:	12-067-00
DATE:	02/11/2016
REVISED:	
SCALE:	1/8" = 1'-0"

E3.26

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1 LEVEL 2 - SYSTEMS PLAN - AREA E
1/8" = 1'-0"

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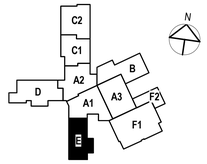

CONTENT:
SECOND FLOOR SYSTEMS PLAN - AREA E

DRAWN BY:	C. NEWELL
PROJECT NO:	12-067-00
DATE:	02/11/2016
REVISED:	
SCALE:	1/8" = 1'-0"

E3.27

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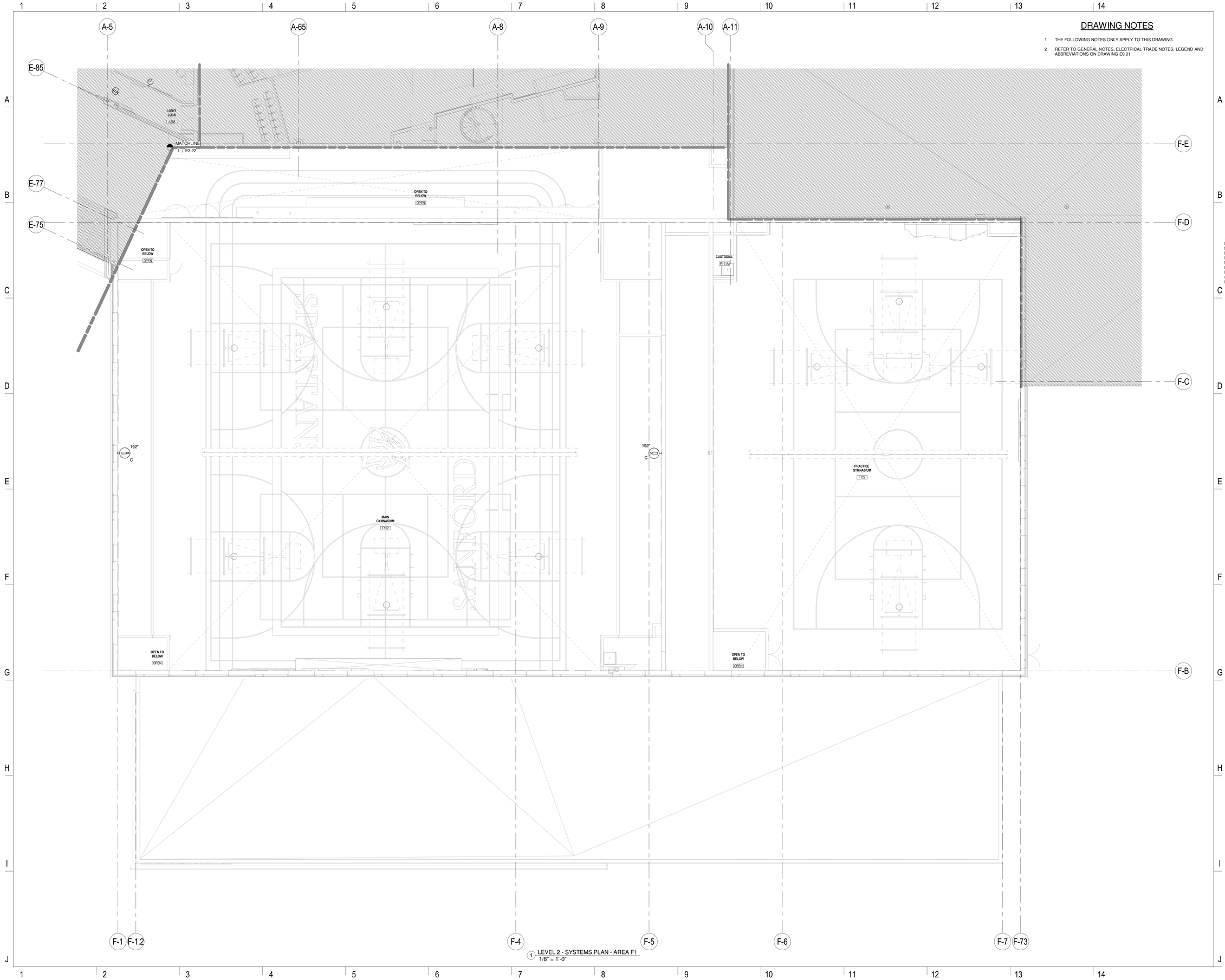

1 LEVEL 2 - SYSTEMS PLAN - AREA F1
1/8" = 1'-0"

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LIC. 10820
LICENSED PROFESSIONAL ENGINEER

Sanford School Department and State of Maine Department of Education

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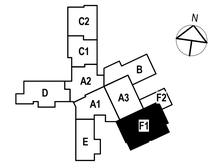

CONTENT:
SECOND FLOOR SYSTEMS PLAN - AREA F1

DRAWN BY:	C. NEWELL
PROJECT NO:	12-067-00
DATE:	02/11/2016
REVISED:	
SCALE:	1/8" = 1'-0"

E3.28

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LIGHTING FIXTURE SCHEDULE

TYPE	DESCRIPTION	MANUFACTURER	LAMPS QTY.	LAMPS TYPE	VOLT.	WATTS/ FIXT.	REMARKS	EQUIVALENT BY
A1-#	5" RECESSED LINEAR LED (GRID MOUNTING) (# = FIXTURE LENGTH)	A.LIGHT #G5-#-LH-35-U-S-#-W-D	1	10W / FT 1200 LUMENS / FT 3500K LED	277	10W / FT	EXTRUDED ALUMINUM HOUSING, STEEL END CAPS, MOUNTING FOR T-BAR GRID CEILING - COORDINATE T-BAR SIZING WITH ARCHITECTURAL DETAILS PRIOR TO ORDERING, PROVIDE LENGTHS AS INDICATED ON PLANS, REPLACEABLE LED BOARDS, 85 CRI +, IP66, WISP OPTIC WITH EVEN DISTRIBUTION, SATIN WHITE FINISH	AXIS, NULITE, PINNACLE
A2-#	5" RECESSED LINEAR LED (FLANGE MOUNTING) (# = FIXTURE LENGTH)	A.LIGHT #G5-#-LH-35-U-S-XP-O-D	1	10W / FT 1200 LUMENS / FT 3500K LED	277	10W / FT	EXTRUDED ALUMINUM HOUSING, STEEL END CAPS, FLANGE MOUNTING, PROVIDE LENGTHS AS INDICATED ON PLANS, REPLACEABLE LED BOARDS, 85 CRI +, IP66, WISP OPTIC, WITH EVEN DISTRIBUTION, FINISH BY ARCHITECT	AXIS, NULITE, PINNACLE
A3-#	5" RECESSED LINEAR LED (FLANGE MOUNTING) (# = FIXTURE LENGTH)	A.LIGHT #G5-#-LH-40-U-S-XP-O-D-Q	1	10W / FT 1200 LUMENS / FT 4000K LED	277	10W / FT	EXTRUDED ALUMINUM HOUSING, STEEL END CAPS, FLANGE MOUNTING, WISP OPTIC WITH EVEN DISTRIBUTION, REPLACEABLE LED BOARDS, 85 CRI +, WET LOCATION LISTED, REFER TO ARCHITECTURAL DETAILS, ELEVATIONS, AND REFLECTED CEILING PLANS FOR LENGTHS, FINISH BY ARCHITECT	AXIS, NULITE, PINNACLE
A4-4	4' RECESSED LINEAR LED WALLWASH (GRID MOUNTING)	H.E.WILLIAMS #HETW-G-4-LED*PH30/835-A-EDD*PH-UNV	1	44W 3000 LUMENS 3500K LED	277	44	STEEL CONSTRUCTION, RIBBED ACRYLIC SHEILDING, MOUNTING FOR T-BAR GRID CEILING - COORDINATE T-BAR SIZING WITH ARCHITECTURAL DETAILS PRIOR TO ORDERING, LM70 = 50,000 HOURS, (0-10V) DIMMING, MATTE WHITE FINISH	AXIS, GAMMALUX PINNACLE, PHILIPS
A5-4	4' RECESSED LINEAR LED WALLWASH (GYP. MOUNTING)	H.E.WILLIAMS #HETW-G-4-LED*PH30/835-A-DFK-0648W-EDD*PH-UNV	1	44W 3000 LUMENS 3500K LED	277	44	STEEL CONSTRUCTION, RIBBED ACRLYIC SHEILDING, MOUNTING FOR HARD CEILINGS - FLANGE KIT, LM70 = 50,000 HOURS, (0-10V) DIMMING, MATTE WHITE FINISH	AXIS, GAMMALUX PINNACLE, PHILIPS
A6	5" RECESSED LINEAR LED CEILING TO WALL CONTINUOUS TRANSITION (SEE PLANS & DETAILS FOR LENGTHS)	A.LIGHT (INTEGRATION) #G5-G-LCW-##x##-LH-40-U-S-XP-O-D-Q	1	10W / FT 1200 LUMENS / FT 3500K LED	277	10W / FT	EXTRUDED ALUMINUM HOUSING, STEEL END CAPS, FLANGE MOUNTING, WISP OPTIC WITH EVEN DISTRIBUTION, REPLACEABLE LED BOARDS, 85 CRI +, WET LOCATION LISTED, REFER TO ARCHITECTURAL DETAILS, ELEVATIONS, AND REFLECTED CEILING PLANS FOR LENGTHS, FIXTURE IS AND "INSIDE CORNER" CONFIGURATION, FINISH BY ARCHITECT, WIRE HORIZONTAL SECTION SEPARATE FROM VERTICAL SECTION	AXIS, GAMMALUX PINNACLE, PHILIPS
A7	5" RECESSED LINEAR LED CEILING TO WALL CONTINUOUS TRANSITION (SEE PLANS & DETAILS FOR LENGTHS)	A.LIGHT (INTEGRATION) #G5-G-LCW-##x##-LH-40-U-S-XP/X-O-D	1	10W / FT 1200 LUMENS / FT 3500K LED	277	10W / FT	EXTRUDED ALUMINUM HOUSING, STEEL END CAPS, WISP OPTIC WITH EVEN DISTRIBUTION, REPLACEABLE LED BOARDS, 85 CRI +, REFER TO ARCHITECTURAL DETAILS, ELEVATIONS, AND REFLECTED CEILING PLANS FOR LENGTHS, FIXTURE IS AN "INSIDE CORNER" CONFIGURATION, FINISH BY ARCHITECT, WIRE HORIZONTAL SECTION SEPARATE FROM VERTICAL SECTION, CEILING RUN IS T-BAR MOUNTING, VERTICAL WALL RUN IS FLANGE MOUNTING	AXIS, GAMMALUX PINNACLE, PHILIPS
B1-#	1 1/2" RECESSED LINEAR LED (# = FIXTURE LENGTH)	AXIS LIGHTING #SCR-B4-500-80-35-FL-S10-C-UNV-D-1-D	1	6W / FT 500 LUMENS / FT 3500K LED	277	6W / FT	EXTRUDED ALUMINUM CONSTRUCTION, END CAPS, 1.5" WIDTH, 500LM / FT, 6W / FT, 80CRI, 3500K, FLUSH LENS, FINISH BY ARCHITECT, (0-10V) DIMMING, SINGLE CIRCUIT, FLANGELESS DRYWALL MOUNTING,	METALUMEN
C1-#	INDUSTRIAL STRIPLIGHT WITH WIREGUARD (# = FIXTURE LENGTH)	LITHONIA #Z-2-32-MVOLT-GEB10PS (FIXTURE) #WGZ48 (WIREGUARD)	2	FP32/835/ECO	120/277	65	LOW PROFILE STEEL CHANNEL AND COVER, LOCKING LAMP HOLDERS, PROGRAM RAPID START BALLAST < 10% THD, HIGH GLOSS BAKED WHITE ENAMEL FINISH, WHITE WIREGAURD	METALUX, H.E. WILLIAMS,
C2-#	INDUSTRIAL STRIPLIGHT WITH REFLECTOR AND WIREGUARD (# = FIXTURE LENGTH)	LITHONIA #Z-2-32-MVOLT-GEB10PS (FIXTURE) #Z8SMR48 (REFLECTOR) #WGZ8SMR48 (WIREGUARD)	2	FP32/835/ECO	120/277	65	LOW PROFILE STEEL CHANNEL AND COVER, LOCKING LAMP HOLDERS, PROGRAM RAPID START BALLAST < 10% THD, HIGH GLOSS BAKED WHITE ENAMEL FINISH, SYMMETRIC REFLECTOR WITH WHITE WIREGAURD	METALUX, H.E. WILLIAMS,
C3	INDUSTRIAL ENCLOSED AND GASKETED	LITHONIA #DMW-2-32-MVOLT-GEB10PS-WLF	2	FP32/835/ECO	120/277	65	IMPACT RESISTANT UV STABILIZED FIBERGLASS HOUSING, GASKETING, CORROSION-RESISTANT CAM-ACTION LATCHES, HIGH GLOSS BAKED WHITE ENAMEL FINISH, HIGH IMPACT ACRYLIC DIFFUSER, WET LOCATION FITTINGS	METALUX, H.E. WILLIAMS
C4	8' SURFACE MOUNT VAPORTITE LED	METALUX #8VT2-LD4-9-DR-UNV-L840-CD1-WL	1	106W 9000 LUMEN 4000K LED	277	106	FIBERGLASS HOUSING, POLYURETHANE GASKETING, CAM LATCHES, INTERNAL PRISMATIC LENS WITH 15% DR HIGH IMPACT ADDITIVE, LM70 = 50,000 HOURS, 4000K, CRI 85+, (0-10V) DIMMING, PROVIDE MOUNTING HARDWARE FOR CHAIN HANGING OR SURFACE MOUNTING	METALUX, H.E. WILLIAMS
C5	4' SURFACE MOUNT VAPORTITE LED	METALUX #VT4LED-LD3-15-W-DR-UNV-L840-CD2	1	130W 15000 LUMEN 4000K LED	277	130	REINFORCED FIBERGLASS HOUSING WITH FULL METAL TRAY AND HEAT SINK, GEAR TRAY SECURED BY INTERNAL LATCHES, TOOLESS DRIVER ACCESS, IP65 & IP67 RATED, HIGH IMPACT CLEAR ACRYLIC DIFFUSER, 4000K, CRI 80+, LM70 = 60,000 HOURS, (0-10V) DIMMING, DLC LISTED, WIDE DISTRIBUTION OPTICS	METALUX, H.E. WILLIAMS
C6	4' EXPLOSION PROOF LED	LDPI #380LED-S-4-2L-4-UNV1-WG	2	30W 3200 LUMEN 4000K LED	277	30	FACTORY SEALED, CAST ALUMINUM, ONE PIECE PAINTED ALUMINUM REFLECTOR, BOROCILICATE GLASS TUBE LENS, 4' LENGTH, STANDARD LUMEN OUTPUT, 4000K, WIRE GUARD, EXPLOSION PROOF RATING	PARAMOUNT, RIG-A-LITE,
D1	6" OPEN RECESSED LED DOWNLIGHT	GOTHAM #EVO-35/14-6AR-MVOLT	1	25W 1400 LUMEN 3500K LED	277	25	STEEL CONSTRUCTION, TELESCOPIC MOUNTING BARS, LIGHT ENGINE AND DRIVER ACCESSIBLE THROUGH APERTURE, LM70 = 60,000 HOURS, (0-10V) DIMMING TO 10%, OVERLOAD AND SHORT CIRCUIT PROTECTION, ENERGY STAR LISTED, CLEAR REFLECTOR SEMI-SPECULAR	PORTFOLIO, PHILIPS,
D2	4" OPEN RECESSED LED DOWNLIGHT	GOTHAM #EVO-35/10-4AR-MWD-LSS-MVOLT-EZ1	1	13W 1000 LUMEN 3500K LED	277	13	STEEL CONSTRUCTION, TELESCOPIC MOUNTING BARS, LIGHT ENGINE AND DRIVER ACCESSIBLE THROUGH APERTURE, LM70 = 60,000 HOURS, (0-10V) DIMMING TO 10%, OVERLOAD AND SHORT CIRCUIT PROTECTION, ENERGY STAR LISTED, CLEAR REFLECTOR SEMI-SPECULAR	PORTFOLIO, PHILIPS,
D3	6" OPEN RECESSED LED WALLWASH DOWNLIGHT	GOTHAM #EVO-WW-35/14-6AR-MOVLT	1	25W 1400 LUMEN 3500K	277	25	STEEL CONSTRUCTION, TELESCOPIC MOUNTING BARS, LIGHT ENGINE AND DRIVER ACCESSIBLE THROUGH APERTURE, LM70 = 60,000 HOURS, (0-10V) DIMMING TO 10%, OVERLOAD AND SHORT CIRCUIT PROTECTION, ENERGY STAR LISTED, ANODIZED KICKER REFLECTOR	PORTFOLIO, PHILIPS,
D4	4" OPEN SQUARE RECESSED LED WALLWASH DOWNLIGHT	GOTHAM #EVO-SQ-35/10-4AR-LD-MVOLT-EZ1	1	13W 1000 LUMEN 3500K LED	277	13	STEEL CONSTRUCTION, TELESCOPING MOUNTING BARS, LIGHT ENGINE AND DRIVER ACCESSIBLE THROUGH APERTURE, 55 DEGREE CUTOFF OPTIC MINIMUM, LM70 = 50,000 HOURS, (0-10V) DIMMING, CRI 85+, 1000 LUMEN PACKAGE, ENERGY STAR LISTED, SELF-FLANGED	PORTFOLIO, PHILIPS,
D6	6" RECESSED LED SHOWER DOWNLIGHT	GOTHAM #EVO-35/10-6-DFR-MVOLT	1	22W 1000 LUMEN 3500K LED	277	22	STEEL CONSCTRUCTION, TELESCOPING MOUNTING BARS, LIGHT ENGINE AND DRIVER ACCESSIBLE THROUGH APERTURE, IMPACT-MODIFIED ACRYLIC FACEPLATE, DEAD FRONT REGRESSED, WHITE PAINTED FLANGE, LM70 = 60,000 HOURS, (0-10V) DIMMING, IP65, 1000 LUMEN PACKAGE	PORTFOLIO, PHILIPS,
D7	6" OPEN SQUARE RECESSED LED DOWNLIGHT	GOTHAM #EVO-SQ-35/10-6AR-MWD-LSS-MVOLT-EZB	1	13W 1000 LUMEN 3500K LED	277	13	STEEL CONSTRUCTION, TELESCOPING MOUNTING BARS, LIGHT ENGINE AND DRIVER ACCESSIBLE THROUGH APERTURE, 55 DEGREE CUTOFF OPTIC MINIMUM, LM70 = 50,000 HOURS, (0-10V) DIMMING, CRI 85+, 1000 LUMEN PACKAGE, ENERGY STAR LISTED, SELF-FLANGED	PORTFOLIO PHILIPS,
D8	6" OPEN RECESSED HIGH OUTPUT LED DOWNLIGHT	GOTHAM #ICO-40/40-6AR-LD-60D-277	1	64W 4000 LUMEN 4000K LED	277	64	STEEL MOUNTING FRAME, LIGHT ENGINE AND DRIVER ACCESSIBLE FROM BELOW CEILING, LM70 = 50,000 HOURS, ENERGEY STAR LISTED, 4000K, 4000 LUMEN PACKAGE, SELF-FLANGED CLEAR APERTURE WITH MATTE DIFFUSE FINISH, 60 DEGREE BEAM ANGLE, CRI 85+, (0-10V) DIMMING, WET LOCATION LISTED	PORTFOLIO,
D9	4" OPEN RECESSED LED DOWNLIGHT	GOTHAM #ICO-40/15-4AR-LD-60D-277	1	23W 1500 LUMEN 4000K LED	277	23	STEEL MOUNTING FRAME, LIGHT ENGINE AND DRIVER ACCESSIBLE FROM BELOW CEILING, LM70 = 50,000 HOURS, ENERGEY STAR LISTED, 4000K, 1500 LUMEN PACKAGE, SELF-FLANGED CLEAR APERTURE WITH MATTE DIFFUSE FINISH, 60 DEGREE BEAM ANGLE, CRI 85+, (0-10V) DIMMING, WET LOCATION LISTED	PORTFOLIO,
EBU	EMERGENCY BATTERY UNIT	LITHONIA #EU2-LED-M12	2	2W LED	277	4	INJECTION MOLDED FLAME RETARDANT HIGH IMPACT THERMOPLASTIC HOUSING WITH SNAP-FIT COMPONENTS, FULL LAMP ADJUSTMENT, TEST SWITCH, STATUS INDICATOR, RECHARGEABLE NICKEL-CADMIUM BATTERY, DUAL VOLTAGE INPUT, UL924	SURE-LITES, EVENLITE,
F1	GREENHOUSE FREE-STANDING GROW LIGHT	SUNLIGHT SUPPLY INC #960300 (FIXTURE) #710118 (STAND)	4	FP54/865/ECO	120	216	WHITE POWDER COATED STEEL HOUSING, WIRE CABLE HANGERS, 12'-0" POWER CORD AND ON/OFF SWITCH, 5000 LUMENS PER LAMP, SPECTRALUX 6500K (BLUE) T5 HO LAMPING, DAISY-CHAIN CAPABLE, 60" WIDE STAND WITH ADJUSTABLE SHUTTLES (12"-48" APART), ADJUSTABLE HEIGHT (52"-88"), STAND WITH PAIR OF SUNLIFTS FOR HANGING FIXTURES	TRANSCEND LIGHTING, METALUMEN,
G1	20" HIGH BAY LED	SPEC GRADE #HBX-200-4100K-80-120/277-AL-DIM	1	200W 18538 LUMEN 4100K LED	277	200	ALUMINUM REFLECTOR AND HEAT SINK, MULTI-VOLTAGE INPUT, (0-10V) DIMMING, IP65, 50,000 HOUR RATED LIFE,CRI 80+, NATURAL WHITE 4100K, 80 DEGREE BEAM ANGLE, DLC LISTED	TRULY GREEN,
G2	2'x4' HIGH BAY LED	METALUX #HBLED-LD4-30-W-CL/WG-277V-L840-CD-3-MP (FIXTURE) #MPC3-277V (MODULAR POWER CORD & PLUG) #HBAYC-CHAIN/SET/U (HANGERS & CHAIN SET)	1	230W 27722 LUMEN 4000K LED	277	230	WIDE DISTRIBUTION, 30,000 LUMEN PACKAGE, 4000K, (0-10V) DIMMING, DLC QUALIFIED, MODULAR POWER RECEPTACLE, MODULAR POWER CORD & PLUG - 277V, V-HOOK HANGERS AND CHAIN SETS, CLEAR LENS WITH WIREGUARD & DOORFRAME,	LITHONIA, PHILIPS
G3	2'x4' HIGH BAY LED	METALUX #HBLED-LD4-18-W-CL/WG-277V-L840-CD-2-MP (FIXTURE) #MPC3-277V (MODULAR POWER CORD & PLUG) #HBAYC-CHAIN/SET/U (HANGERS & CHAIN SET)	1	154W 17346 LUMEN 4000K LED	277	154	WIDE DISTRIBUTION, 18,000 LUMEN PACKAGE, 4000K, (0-10V) DIMMING, DLC QUALIFIED, MODULAR POWER RECEPTACLE, MODULAR POWER CORD & PLUG - 277V, V-HOOK HANGERS AND CHAIN SETS, CLEAR LENS WITH WIREGUARD & DOORFRAME,	LITHONIA, PHILIPS
G4	22"x15" HIGH BAY LENSED LED	LITHONIA #IBH-15000LM-SD080-MD-MVOLT-GZ10-40K-80CRI-WH #ZACVH (AIRCRAFT CABLE - V HANGER)	1	152W 14530 LUMEN 4000K LED	277	152	ALUMINUM HOUSING AND HEAT SINK, 50,000 HOUR RATED LIFE, IP65, CRI 80+, NATURAL WHITE 4100K, 80 DEGREE BEAM SPREAD, ALUMINUM FINISH, DLC LISTED	METALUX, PHILIPS
G5	22" ARCHITECTURAL HIGH BAY LED	DECO LIGHTING #D952-LED-22-120-35-UNV-PR-F-TWH-C##-FL-DM	1	120W 15360 LUMEN 3500K LED	277	120	SPUN ALUMINUM DRIVER ENCLOSURE, 22" DIAMETER PRISMATIC ACRYLIC REFLECTOR, 3500K, DLC QUALIFIED, FLAT TOP STYLE, CABLE MOUNTING - COORDINATE CABLE LENGTHS PRIOR TO ORDERING, CANOPYS, (0-10V) DIMMING, FLAT ACRYLIC LENS	LUMINIS,
H1	RGBW ADDRESSING LED PENDANT HOUSELIGHT (DMX CONTROLLED)	CHROMA-Q #CHINMINIHLRGBWA	1	75W 3010 LUMEN RGBW	120	75	EXTRUDED ALUMINUM CONSTRUCTION, CRI 90, 65 DEGREE BEAM ANGLE, BLACK BODY FINISH, INTEGRAL POWER SUPPLY, DMX 512-A CONTROL PROTOCOL, THEATRICAL DIMMING CURVE, ADJUSTABLE CCT, L70 = 50,000 HOURS, VARIABLE EFFECTS ENGINE, PENDANT MOUNTING	
H2	RGBA ADDRESSING LED PENDANT HOUSELIGHT (DMX CONTROLLED)	ETC #SELD22L-I (FIXTURE & MOUNTING CANOPY) #SELD22CF (COLOR FRAME) #SELRM-D22 (MEDIUM LENS ROUND FIELD)	1	57W 630 LUMEN RGBA	120	57	DIECAST ALL-METAL HOUSING, SECONDARY LENS HOLDER ACCESSORY, IP20 RATED, DMX 512 CONTROL PROTOCOL, CANOPY MOUNTING, BLACK FINISH, L70 = 50,000 HOURS, CRI 80+, ROUND PATTERN MEDIUM LENS, 45 DEGREE DIFFUSSION ANGLE, 3200K WHITE	
H3	LED JELLY JAR WITH BLUE GLASS	BASELITE #W-1-BL-CG-41-10W	1	10W 3000K LED	120	10	DIECAST ALUMINUM CONSTRUCTION, BLACK POLYESTER POWDER COAT FINISH, CAST GUARD OVER 3" BLUE GLASS SHIELD, WALL MOUNTING, LIFE EXPECTANCY 60,000 HOUR MINIMUM	ANP LIGHTING
H4	RECESSED LED STEPLIGHT	BEGA #2135LED	1	4W 9 LUMEN 3000K LED	120	4	DIECAST ALUMINUM CONSTRUCTION, BRUSHED STAINLESS STEEL FINISH, IP64 RATED, (0-10V) DIMMING, INTEGRAL DRIVER, 3000K, LED ENGINE AND DRIVER ARE REPLACEABLE	MP LIGHTING, INTENSE LIGHTING,
H5-#	LENSED LED STRIP (# = FIXTURE LENGTH)	H.E.WILLIAMS #75L-#-LED*PH##/835-DMA-EDD*PH-UNV (MOD-FINISH-BLACK)	1	13W / FT 1200 LUMENS / FT 3500K LED	120/277	13W / FT	STEEL HOUSING, POWDER COAT BLACK FINISH, MATTE ACRYLIC LENSING, PROVIDE MOUNTING HARDWARE FOR LAYOUTS INDICATED, SEE PLANS FOR LENGTHS, UNIVERSAL VOLTAGE DRIVER, (0-10V) DIMMING	LITHONIA, COOPER,
H6	RGBW RECESSED LED DOWNLIGHT (DMX CONTROLLED)	COLORONIX #SH6LDC70RGBW-SR6LED21W #PCL003	1	20W LED	120	20	IC RATED, STEEL HOUSING, L70 = 35000 HOURS, DMX512A PROTOCOL, WHITE FINISH, DIMMING DOWN TO 1%	
H7-#	RGBW LED WALL GRAZING FIXTURE (DMX CONTROLLED) (# = FIXTURE LENGTH)	COLOR KINETICS #423-000001-01 #423-000001-07 #423-000001-17 #106-000004-00 (DATA ENABLER PRO)	1	19W / FT 622 LUMENS / FT 4000K LED	120	19W / FT	EXTRUDED ALUMINUM HOUSING, POLYCARBONATE LENS, ADJUSTABLE LOCKING HINGES, RGBW, LM70 = 65,000 HOURS, DMX512A PROTOCOL, 15x30 DEGREE BEAM ANGLE, PROVIDE ALL MOUNTING HARDWARE AND ACCESSORIES FOR LAYOUT INDICATED ON PLANS, SEE PLANS FOR LENGTHS PROVIDE DATA ENABLER PRO UNITS AS INDICATED ON PLANS	
H8-#	RGBW LED IN GROUND/FLOOR WALL WASHER (DMX CONTROLLED) (# = FIXTURE LENGTH)	LUMENPULSE #LOI-100/277-##-RGBW-DMX1FT-WW-INTL-ASL	1	18W / FT	120	18W / FT	EXTRUDED ALUMINUM HOUSING, STAINLESS STEEL HARDWARE, TEMPERED GLASS LENS, ASYMMETRIC WALLWASH OPTICS, RGBW, LM70 = 60,000 HOURS, DMX512A PROTOCOL, PROVIDE ALL MOUNTING HARDWARE AND ACCESSORIES FOR LAYOUT INDICATED ON PLANS, SEE PLANS FOR LENGTHS	
J1	"IN USE" VIDEO PRODUCTION SIGN	LITHONIA #LE-P-1-R-120/277-SW09	1	1W LED	120/277	1	DIECAST ALUMINUM, PANEL FACE, BRUSHED ALUMINUM FACE WITH BLACK BODY, RED LETTERING, "IN USE", PROVIDE ALL MOUNTING ACCESSORIES FOR CONFIGURATION INDICATED ON PLANS	SIGNAL TECH
K1	2'x2' RECESSED FOOD ZONE LED (GRID MOUNTING)	PARAMOUNT #FG2-2L-2-4-S3-G#-D3	1	40W 4800 LUMEN 4000K LED	277	40	ZINC COATED STEEL HOUSING CONSTRUCTION, ALUMINUM REFLECTOR, EXTERNAL METAL COMPONENTS ARE STAINLESS STEEL - FOOD ZONE RATED, SILICONE SEALANT GASKETING LENS TO FRAME, EPDM SEALING FRAME TO HOUSING, WHITE POLYESTER ENAMEL FINISH, PRISMATIC ACRYLIC LENS, GRID MOUNTING, (0-10V) DIMMING, NSF CERTIFIED, L70 = 54,000 HOURS, 4000K	METALUMEN, KENALL,
K2	2'x2' RECESSED FOOD ZONE LED (GYP. MOUNTING)	PARAMOUNT #FF2-2L-2-4-S3-D3	1	40W 4800 LUMEN 4000K LED	277	40	ZINC COATED STEEL HOUSING CONSTRUCTION, ALUMINUM REFLECTOR, EXTERNAL METAL COMPONENTS ARE STAINLESS STEEL - FOOD ZONE RATED, SILICONE SEALANT GASKETING LENS TO FRAME, EPDM SEALING FRAME TO HOUSING, WHITE POLYESTER ENAMEL FINISH, PRISMATIC ACRYLIC LENS, CONCEALED CEILING MOUNTING, (0-10V) DIMMING, NSF CERTIFIED, L70 = 54,000 HOURS, 4000K	METALUMEN, KENALL,
K3	2'x4' RECESSED FOOD ZONE LED (GRID MOUNTING)	PARAMOUNT #FG2-3L-4-4-S3-G#-D3	1	120W 14400 LUMEN 4000K LED	277	120	ZINC COATED STEEL HOUSING CONSTRUCTION, ALUMINUM REFLECTOR, EXTERNAL METAL COMPONENTS ARE STAINLESS STEEL - FOOD ZONE RATED, SILICONE SEALANT GASKETING LENS TO FRAME, EPDM SEALING FRAME TO HOUSING, WHITE POLYESTER ENAMEL FINISH, PRISMATIC ACRYLIC LENS, GRID MOUNTING, (0-10V) DIMMING, NSF CERTIFIED, L70 = 54,000 HOURS, 4000K	METALUMEN, KENALL,
L2-#	12" ADJUSTABEL HIGH OUTPUT LED GRAZER WITH FINE ADJUSTMENT BRACKET AND DIMMING MODULE (# = FIXTURE LENGTH)	ECOSENSE #L50-I-12-10-35-80-MULT-9x29 #L50-I-48-10-35-80-MULT-9x29 #LDCM-120/277-010V-GR (DIMMING CONTROL MODULE) #MNT-L-FAB (FINE ADJUST BRACKET)	1	10W / FT 653 LUMENS / FT 3500K LED	120/277	10W / FT	EXTRUDED ALUMINUM HOUSING, CLEAR POLYCARBONATE LENS, STAINLESS STEEL FASTENERS, INTEGRAL MALE/FEMALE CONNECTORS, 3500K, CRI 80, (0-10V) DIMMING, 10W / LF (60+ LM/W), GRAZING 9x29 OPTIC, ENERGEY STAR LISTED, PROVIDE ALL MOUNTING HARDWARE REQUIRED FOR LAYOUT INDICATED ON PLANS	iO, ACOLYTE, COLOR KINETICS, LUMENPULSE
L3	4.5" RECESSED LED PERIMETER SLOT SYSTEM	PINNACLE #EVL-35HO-##-SF-UNV-1D-W-EF	1	6W / FT 332 LUMENS / FT 3500K LED	277	6W / FT	EXTRUDED ALUMINUM CONSTRUCTION WITH STEEL BACK BOX, CRI 80+, (0-10V) DIMMING, SPAKLE FLANGE, CONTINUOUS RUN WALL TO WALL, FILLER END PIECES, UL DAMP LOCATION, 3500K, MATTE WHITE FINISH	AXIS

LIGHTING FIXTURE SCHEDULE

TYPE	DESCRIPTION	MANUFACTURER	LAMPS QTY.	LAMPS TYPE	VOLT.	WATTS/ FIXT.	REMARKS	EQUIVALENT BY
P1	6' DIRECT/INDIRECT LED TUBULAR PENDANT	BIRCHWOOD #CHL-LED-475-SLO-SLO-35-6-SC-FW-FW-277-D10-CSS#-2CKT	1	125W 5400 LUMENS 3500K LED	277	125	4.75" DIAMETER, EXTRUDED ALUMINUM HOUSING, EXTRUDED FROSTED WHITE ACRYLIC LENS, SATIN CLEAR ANODIZED FINISH, 6'-0" LENGTH, 966 LUMEN PER FT, STANDARD OUTPUT DIRECT OPTIC, STANDARD OUTPUT INDIRECT OPTIC, (0-10V) DIMMING TO 10%, 2 CIRCUIT SWITCH, FIELD ADJUSTABLE AIRCRAFT CABLE SUSPENSION WITH CANOPY AND CABLE GRIPPERS - SUSPENSION LENGTHS VARY SEE PLANS, COORDINATE SUSPENSION LENGTHS WITH ARCHITECTURAL DETAILS	ARCHITECTURAL LIGHTING WORKS, SPI LIGHTING
P4-#	DIRECT/INDIRECT LED PENDANT (# = FIXTURE LENGTH)	CORELITE #DSI-WS-5L35-1D-UNV-AC48-T#-W	1	24W / FT 2182 LUMENS / FT 3500K LED	277	24W / FT	LOW PROFILE ALUMINUM AND STEEL CONSTRUCTION, DIECAST ALLOY END CAPS, OPTICAL GRADE ACRYLIC LENS WITH MICRO-OPTICS, POLYESTER POWDER COAT WHITE FINISH, 3500K, CRI 82+, (0-10V) DIMMING, AIRCRAFT CABEL SUSPENSION, SEE PLANS FOR LENGTHS	METALUMEN,
P5	9" DECORATIVE PENDANT	BRUCK LIGHTING #112-401-MC-9A-WH-MP	1	15W 700 LUMEN 3500K LED	120	15	MACHINED ALUMINUM HOUSING WITH MATTE CHROME FINISH, REMOTE PHOSPHOR TECHNOLOGY, 9" WHITE GLASS SHADE, 3500K, CRI 80+, 700 LUMEN PACKAGE, DIMMABLE, PENDANT MOUNTING, KISS CANOPY, LM80 = 50,000 HOURS	TECH LIGHTING
P7-#	8' WET LOCATION LED PENDANT (# = FIXTURE LENGTH)	AXIS #WBLED-B3-750-40-S-#-W-UNV-D-1-SA#	1	10W / FT 6000 LUMENS 3500K LED	277	10W / FT	EXTRUDED ALUMINUM HOUSING, DIECAST ENDCAPS, ELASTOMER GASKETING, FROSTED ACRYLIC LENS, CRI 80+, 4000K, (0-10V) DIMMING, MULIT-VOLT INPUT, UL WET LOCATION, WHITE FINISH, PENDANT MOUNTING TO STRUCTURE, COORDINATE PENDANT LENGTHS	METALUMEN,
P9-#	DIRECT/INDIRECT LED PENDANT (# = FIXTURE LENGTH)	LUMENWERX #VIA4PDI-HLO-LED-80-750-500-35-#FT-UNV-D-2-53WAC##-W	1	20W / FT 1250 LUMENS / FT 3500K LED	277	20W / FT	EXTRUDED ALUMINUM HOUSING & END CAPS, HLO ACRYLIC OPTICS, INDEPENDENT DIRECT AND INDIRECT DIMMING (0-10V), WHITE FINISH, L80 = 60,000 HOURS, CRI 80+, 3500K, ADJUSTABLE AIRCRAFT CABLE SUSPENSION, SEE PLANS FOR LENGTHS	AXIS, METALUMEN, PHILIPS, PINNACLE
P10-#	DIRECT LED PENDANT (# = FIXTURE LENGTH)	LUMENWERX #VIA4PD-HLO-LED-80-750-35-#FT-UNV-D-1-53WAC##-W	1	8W / FT 750 LUMENS / FT 3500K LED	277	8W / FT	EXTRUDED ALUMINUM HOUSING & END CAPS, HLO ACRYLIC OPTICS, (0-10V) DIMMING, WHITE FINISH, L80 = 60,000 HOURS, CRI 80+, 3500K, ADJUSTABLE AIRCRAFT CABLE SUSPENSION, SEE PLANS FOR LENGTHS	AXIS, METALUMEN, PHILIPS, PINNACLE
P11-#	WALLWASH LED PENDANT (# = FIXTURE LENGTH)	LUMENWERX #VIA4PD-ARO-LED-80-500-35-#FT-UNV-D-1-53WAC##-W	1	8W / FT 500 LUMENS / FT 3500K LED	277	18W / FT	EXTRUDED ALUMINUM HOUSING & END CAPS, ASYMMETRIC REFLECTOR, OPTIC, (0-10V) DIMMING, WHITE FINISH, L80 = 60,000 HOURS, CRI 80+, 3500K, ADJUSTABLE AIRCRAFT CABLE SUSPENSION, SEE PLANS FOR LENGTHS	AXIS, METALUMEN, PHILIPS, PINNACLE
R1	2'x2' RECESSED LED (GRID MOUNTING)	CORELITE #R2X-WO-1L35-1C-D-UNV-22-T#	1	26W 2100 LUMEN 3500K LED	120/277	26	LOW PROFILE (MAX. DEPTH 3"), STEEL CONSTRUCTION, WHITE POWDER COAT PAINTED REFLECTOR, OPAL ACRYLIC LENS, (0-10V) DIMMING, 3500K, CRI 85+, MOUNTING FOR GRID CEILINGS, 2100 LUMEN PACKAGE, LED MODULE AND DRIVER ACCESSIBLE FROM BELOW CEILING	PHILIPS, MARK ARCHITECTURAL,
R2	2'x2' RECESSED LED (GYP. MOUNTING)	CORELITE #R2X-WO-1L35-1C-D-UNV-22-CC	1	26W 2100 LUMEN 3500K LED	277	26	LOW PROFILE (MAX. DEPTH 3"), STEEL CONSTRUCTION, WHITE POWDER COAT PAINTED REFLECTOR, OPAL ACRYLIC LENS, (0-10V) DIMMING, 3500K, CRI 85+, MOUNTING FOR HARD CEILINGS, 2100 LUMEN PACKAGE, LED MODULE AND DRIVER ACCESSIBLE FROM BELOW CEILING	PHILIPS, MARK ARCHITECTURAL,
R3	2'x2' RECESSED LED (GRID MOUNTING)	CORELITE #R2X-WO-2L35-1C-D-UNV-22-T#	1	30W 2600 LUMEN 3500K LED	277	30	LOW PROFILE (MAX. DEPTH 3"), STEEL CONSTRUCTION, WHITE POWDER COAT PAINTED REFLECTOR, OPAL ACRYLIC LENS, (0-10V) DIMMING, 3500K, CRI 85+, MOUNTING FOR GRID CEILINGS, 2600 LUMEN PACKAGE, LED MODULE AND DRIVER ACCESSIBLE FROM BELOW CEILING	PHILIPS, MARK ARCHITECTURAL,
R4	2'x2' RECESSED LED (GYP. MOUNTING)	CORELITE #R2X-WO-2L35-1C-D-UNV-22-CC	1	30W 2600 LUMEN 3500K LED	277	30	LOW PROFILE (MAX. DEPTH 3"), STEEL CONSTRUCTION, WHITE POWDER COAT PAINTED REFLECTOR, OPAL ACRYLIC LENS, (0-10V) DIMMING, 3500K, CRI 85+, MOUNTING FOR HARD CEILINGS, 2600 LUMEN PACKAGE, LED MODULE AND DRIVER ACCESSIBLE FROM BELOW CEILING	PHILIPS, MARK ARCHITECTURAL,
R5	2'x2' RECESSED LED (GRID MOUNTING)	CORELITE #R2X-WO-3L35-1C-D-UNV-22-T#	1	38W 3300 LUMEN 3500K LED	277	38	LOW PROFILE (MAX. DEPTH 3"), STEEL CONSTRUCTION, WHITE POWDER COAT PAINTED REFLECTOR, OPAL ACRYLIC LENS, (0-10V) DIMMING, 3500K, CRI 85+, MOUNTING FOR GRID CEILINGS, 3300 LUMEN PACKAGE, LED MODULE AND DRIVER ACCESSIBLE FROM BELOW CEILING	PHILIPS, MARK ARCHITECTURAL,
R6	2'x2' RECESSED LED (GYP. MOUNTING)	CORELITE #R2X-WO-3L35-1C-D-UNV-22-CC	1	38W 3300 LUMEN 3500K LED	277	38	LOW PROFILE (MAX. DEPTH 3"), STEEL CONSTRUCTION, WHITE POWDER COAT PAINTED REFLECTOR, OPAL ACRYLIC LENS, (0-10V) DIMMING, 3500K, CRI 85+, MOUNTING FOR HARD CEILINGS, 3300 LUMEN PACKAGE, LED MODULE AND DRIVER ACCESSIBLE FROM BELOW CEILING	PHILIPS, MARK ARCHITECTURAL,
R7	2'x4' RECESSED LED (GRID MOUNTING)	CORELITE #R2X-WO-1L35-1C-D-UNV-24-T#	1	33W 3100 LUMEN 3500K LED	277	33	LOW PROFILE (MAX. DEPTH 3"), STEEL CONSTRUCTION, WHITE POWDER COAT PAINTED REFLECTOR, OPAL ACRYLIC LENS, (0-10V) DIMMING, 3500K, CRI 85+, MOUNTING FOR GRID CEILINGS, 3100 LUMEN PACKAGE, LED MODULE AND DRIVER ACCESSIBLE FROM BELOW CEILING	PHILIPS, MARK ARCHITECTURAL,
R8	2'x4' RECESSED LED (GYP. MOUNTING)	CORELITE #R2X-WO-1L35-1C-D-UNV-24-CC	1	33W 3100 LUMEN 3500K LED	277	33	LOW PROFILE (MAX. DEPTH 3"), STEEL CONSTRUCTION, WHITE POWDER COAT PAINTED REFLECTOR, OPAL ACRYLIC LENS, (0-10V) DIMMING, 3500K, CRI 85+, MOUNTING FOR HARD CEILINGS, 3100 LUMEN PACKAGE, LED MODULE AND DRIVER ACCESSIBLE FROM BELOW CEILING	PHILIPS, MARK ARCHITECTURAL,
R9	2'x4' RECESSED LED (GRID MOUNTING)	CORELITE #R2X-WO-2L35-1C-D-UNV-24-T#	1	48W 4300 LUMEN 3500K LED	277	48	LOW PROFILE (MAX. DEPTH 3"), STEEL CONSTRUCTION, WHITE POWDER COAT PAINTED REFLECTOR, OPAL ACRYLIC LENS, (0-10V) DIMMING, 3500K, CRI 85+, MOUNTING FOR GRID CEILINGS, 4300 LUMEN PACKAGE, LED MODULE AND DRIVER ACCESSIBLE FROM BELOW CEILING	PHILIPS, MARK ARCHITECTURAL,
R10	2'x4' RECESSED LED (GYP. MOUNTING)	CORELITE #R2X-WO-2L35-1C-D-UNV-24-CC	1	48W 4300 LUMEN 3500K LED	277	48	LOW PROFILE (MAX. DEPTH 3"), STEEL CONSTRUCTION, WHITE POWDER COAT PAINTED REFLECTOR, OPAL ACRYLIC LENS, (0-10V) DIMMING, 3500K, CRI 85+, MOUNTING FOR HARD CEILINGS, 4300 LUMEN PACKAGE, LED MODULE AND DRIVER ACCESSIBLE FROM BELOW CEILING	PHILIPS, MARK ARCHITECTURAL,
R11	2'x4' RECESSED LED (GRID MOUNTING)	CORELITE #R2X-WO-3L35-1C-D-UNV-24-T#	1	59W 5200 LUMEN 3500K LED	277	59	LOW PROFILE (MAX. DEPTH 3"), STEEL CONSTRUCTION, WHITE POWDER COAT PAINTED REFLECTOR, OPAL ACRYLIC LENS, (0-10V) DIMMING, 3500K, CRI 85+, MOUNTING FOR GRID CEILINGS, 5200 LUMEN PACKAGE, LED MODULE AND DRIVER ACCESSIBLE FROM BELOW CEILING	PHILIPS, MARK ARCHITECTURAL,
R12	2'x4' RECESSED LED (GYP. MOUNTING)	CORELITE #R2X-WO-3L35-1C-D-UNV-24-CC	1	59W 5200 LUMEN 3500K LED	277	59	LOW PROFILE (MAX. DEPTH 3"), STEEL CONSTRUCTION, WHITE POWDER COAT PAINTED REFLECTOR, OPAL ACRYLIC LENS, (0-10V) DIMMING, 3500K, CRI 85+, MOUNTING FOR HARD CEILINGS, 5200 LUMEN PACKAGE, LED MODULE AND DRIVER ACCESSIBLE FROM BELOW CEILING	PHILIPS, MARK ARCHITECTURAL,
R13	2'x4' RECESSED LED (GRID MOUNTING)	LITHONIA #2FSL4-48L-EZ1-LP835	1	47W 4856 LUMEN 3500K LED	277	47	STEEL CONSTRUCTION, WHITE POLYESTER PAINTED FINISH, SATIN WHITE LENS WITH WIDE DISTRIBUTION, L80 = 50,000 HOURS, CRI 82+, GRID MOUNTING FOR T-BAR CEILINGS, 4800 LUMEN PACKAGE, (0-10V) DIMMING TO 1%	METALUX
S1-#	LINEAR SURFACE MOUNT DIRECT LED 2-CIRCUIT (# = FIXTURE LENGTH)	PINNACLE #EX44-A-N-35HO-#-S-UNV-2D-W (2 DRIVERS / 2 LED BOARDS)	1	13W / FT 750 LUMENS / FT 3500K LED	277	13W / FT	EXTRUDED ALUMINUM HOUSING, ALUMINUM REFLECTOR, ACRYLIC SNAP-IN DIFFUSER, CRI 82+, 3500K, (0-10V) DIMMING, WHITE FINISH, PROVIDE 2 CIRCUITS WITH DIMMING - 2 SEPARATE LED DRIVERS AND BOARDS FOR USE WITH EMERGENCY LIGHTING, SEE PLANS FOR LENGTHS	AXIS
S2	WALL MOUNT OVERBED FIXTURE	H.E.WILLIAMS #WMAUD-4-LEDPH32/835U-PH32/835D-AF-EDD*PHU/EDD*PHD-UNV	1	81W 6400 LUMENS 3500K LED	277	81	STEEL AND ALUMINUM CONSTRUCTION, DIECAST ENDCAPS, WHITE POLYESTER POWDER COAT FINISH, ACRYLIC SHIELDING, LM70 = 50,000 HOURS, CRI 80, 3500K, MULTI-VOLTAGE INPUT, (0-10V) DIMMING, TOOL-LESS ACCESS	TERON, FAILSAFE
S3	4' SURFACE CEILING MOUNT HIGH ABUSE LED	KENALL #MLHA8-48-F-MW-PP-45L35K-DCC-DV	1	50W 4632 LUMENS 3500K LED	277	50	EXTRUDED ALUMINUM HOUSING, FLAT DIECAST END CAPS, UV-STABILIZED HIGH IMPACT EXTRUDED PEARLESCENT POLYCARBONATE LENS, STAINLESS STEEL HARDWARE, 3500K, (0-10V) DIMMING, WET LOCATION, MATTE WHITE FINISH, LM70 = 80,000 HOURS	FAILSAFE
S4-#	SURFACE LED WALL BRACKET (# = FIXTURE LENGTH)	LITHONIA #WL4-40L-EZ1-LP835 #WL2-22L-EZ1-LP835	1	10W / FT 1030 LUMENS / FT 3500K LED	277	10W / FT	STEEL CONSTRUCTION, DIECAST END CAPS, IMPACT MODIFIED LINEAR FACETED REFRACTOR, WHITE POLYESTER POWDER COAT FINISH, LM90 = 60,000 HOURS, CRI 82+, 3500K, (0-10V) DIMMING, DLC LISTED, SEE PLANS FOR LENGTHS	METALUX, DAYBRITE,
S5-#	SURFACE LED WALL DIRECT (# = FIXTURE LENGTH)	A.LIGHT #G3-#-LH-35-U-KS-R-W-D	1	10W / FT 1200 LUMENS / FT 3500K LED	277	10W / FT	EXTRUDED ALUMINUM HOUSING, MILLED END CAPS, STANDARD WALL MOUNTING, PROVIDE LENGTHS AS INDICATED ON PLANS, REPLACEABLE LED BOARDS, 85 CRI+, A-WASH KICKER WITH WISP LENS, ASYMMETRIC DISTRIBUTION, SATIN WHITE FINISH, (0-10V) DIMMING	AXIS, NULITE, PINNACLE
S7-#	LINEAR SURFACE MOUNT DIRECT LED (# = FIXTURE LENGTH)	PINNACLE #EX44-A-N-35HO-#-S-UNV-1D-W	1	13W / FT 750 LUMENS / FT 3500K LED	277	13W / FT	EXTRUDED ALUMINUM HOUSING, ALUMINUM REFLECTOR, ACRYLIC SNAP-IN DIFFUSER, CRI 82+, 3500K, (0-10V) DIMMING, WHITE FINISH, SEE PLANS FOR LENGTHS	AXIS
T1	SURFACE MOUNT SINGLE CIRCUIT DIMMABLE TRACK	LIGHTOLIER #6103NWH, 6104NWH, 6108NWH, 6112NWH (ADVENT LYTESPAN 1-CIRCUIT)	-	-	120	-	ALUMINUM TRACK, PROVIDE TRACK MOUNTING CLIPS PER MANUFACTURERS RECOMMENDATIONS, SINGLE CIRCUIT TRACK, 20A CAPACITY, BAKED WHITE ENAMEL FINISH, PROVIDE LENGTHS AS INDICATED ON PLANS, PROVIDE ALL REQUIRED MOUNTING AND JOINER PIECES REQUIRED FOR LAYOUT INDICATED, PROVIDE END CAPS, CANOPYS, AND POWER FEEDS	COOPER, LITHONIA,
T2	SURFACE MOUNT SINGLE CIRCUIT DIMMABLE TRACK	LIGHTING SERVICES INC #31320, 31310, 31300, 31311, 30303, 30365, 30366	-	-	120	-	HEAVY GAUGE EXTRUDED ALUMINUM TRACK, SINGLE CIRCUIT TRACK, 20A CAPACITY, WHITE FINISH, PROVIDE LENGTHS AS INDICATED ON PLANS, PROVIDE ALL REQUIRED MOUNTING AND JOINER PIECES REQUIRED FOR LAYOUT INDICATED, PROVIDE END CAPS, CANOPYS, AND POWER FEEDS	
TH1	ADJUSTABLE CYLINDER LED TRACKHEAD	LIGHTOLIER #LLAH-11-835-W-TE (FIXTURE) #LLRF (REFLECTOR)	1	15W 1100 LUMEN 3500K LED	120	15	MOLDED POLYCARBONATE DRIVER HOUSING, INTEGRATED HOUSING HEAT SINK OF ALUMINUM, LM70 = 50,000 HOURS, CRI 80+, 3500K, WHITE FINISH, TRIAC / ELV DIMMING, 28 DEGREE FLOOD REFLECTOR, ENERGY STAR CERTIFIED, 365 HORIZONTAL ROTATION, 0-90 DEGREE VERTICAL PIVOT, SAFETY LOCKING LEVER, INTERCHANGABLE OPTICS	COOPER, LITHONIA,
TH2	ADJUSTABLE HIGH INTENSIGY LED TRACKHEAD	LIGHTING SERVICES INC #LP2-10-30K-00-W	1	27W 1050 LUMEN 3000K LED	120	27	ALUMINUM HOUSING, WHITE FINISH, INTEGRAL ELECTRONIC DRIVER, ELV DIMMABLE TO 20%, 10 DEGREE OPTIC, L70 = 50,000 HOURS, CRI 80+, 3000K, LOCKING FOR HORIZONTAL AND VERTICAL FOCUS, ON/OFF SAFETY SWITCH	
TH3	ADJUSTABLE HIGH INTENSITY LED TRACKHEAD	LIGHTING SERVICES INC #LP3-10-30K-00-W	1	55W	120	55	ALUMINUM HOUSING, WHITE FINISH, INTEGRAL ELECTRONIC DRIVER, ELV DIMMABLE TO 20%, 10 DEGREE OPTIC, L70 = 50,000 HOURS, CRI 80+, 3000K, LOCKING FOR HORIZONTAL AND VERTICAL FOCUS, ON/OFF SAFETY SWITCH	
U1	2' DIMMABLE LED UNDERCABINET FIXTURE	LUMENPULSE #LUCRO-24V-24-35K-FR-WH (FIXTURE) #PS24V60D OR #PS24V100D (REMOTE POWER SUPPLY) #PSX-DIM (POWER SUPPLY WITH DIMMING MODULE)	1	5W / FT 250 LUMENS / FT 3500K LED	24	5W / FT	EXTRUDED ALUMINUM HOUSING, END CAPS, FROSTED LENS, WHITE FINISH, 3500K, L70 = 50,000 HOURS, HARDWIRED FOR (0-10V) CONTROL, PROVIDE ALL POWER SUPPLIES, DIMMING CONTROL MODULES, AND MOUNTING ACCESSORIES REQUIRED FOR LAYOUT INDICATED ON PLANS	COLOR KINETICS, ECOSENSE, SOLID STATE LIGHTING
U2	2' DIMMABLE LED DISPLAYCASE FIXTURE	LUMENPULSE #LUCHO-24V-24-35K-CL-WH (FIXTURE) #PS24V60D OR #PS24V100D (REMOTE POWER SUPPLY) #PSX-DIM (POWER SUPPLY WITH DIMMING MODULE)	1	10W / FT 500 LUMENS / FT 3500K LED	24	10W / FT	EXTRUDED ALUMINUM HOUSING, END CAPS, FROSTED LENS, WHITE FINISH, 3500K, L70 = 50,000 HOURS, HARDWIRED FOR (0-10V) CONTROL, PROVIDE ALL POWER SUPPLIES, DIMMING CONTROL MODULES, AND MOUNTING ACCESSORIES REQUIRED FOR LAYOUT INDICATED ON PLANS	COLOR KINETICS, ECOSENSE, SOLID STATE LIGHTING
V1	1' WALL VANITY LED FIXTURE	TERON #VCY12-L9.1-120-277-SLT-TW-35K	1	12W 962 LUMENS 3500K LED	277	12	STEEL HOUSING, ALUMINUM MOUNT PAN AND REFLECTOR, MATTE WHITE ACRYLIC INNER DIFFUSER, CLEAR ACRYLIC OUTER DIFFUSER, 277V INPUT, NON-DIMMING, ADA COMPLIANT, L70 = 50,000 HOURS, DLC LISTED, TEXTURED WHITE FINISH, UP/DN LIGHT WITH FRONT SLOT	BROWNLEE, BARTCO,
W1	WALL MOUNTED LED	LITHONIA #DSXW2-LED-30C-530-40K-TFTM-MVOLT-DMG-DNAXD	1	54W 5223 LUMENS 4000K LED	277	54	DIECAST ALUMINUM HOUSING, IP65, DLC QUALIFIED, PROVIDED WITH (3) SEPARATE LED ARRAYS AND (3) DRIVERS WIRED SUCH THAT (2) ARRAYS AND DRIVERS ARE ARE CONTROLLED TOGETHER WITH THE REMAINING ARRAY AND DRIVER CONTROLLED SEPARATELY, 530mA DRIVERS WITH (0-10V) DIMMING, TYPE 3 DISTRIBUTION, 4000K, ACRYLIC LENS, CRI 70+, NATURAL ALUMINUM FINISH	McGRAW-EDISON, GARDCO,
W2	WALL MOUNTED EXTERIOR LED	GARDCO #161-DCC-3-110LA-6453-NW-UNIV-NP	1	107W 9972 LUMENS 4000K LED	277	107	DIECAST ALUMINUM HOUSING, UL WET LOCATION LISTED, DLC QUALIFIED, PROVIDED WITH DUAL CIRCUITING OPTION, PROVIDE WITH (2) SEPARATE LED ARRAYS AND (2) DRIVERS WIRED INDEPENDENTLY, CONSTANT CURRENT 530mA DRIVER WITH (0-10V) DIMMING,FULL CUTOFF OPTICS, TYPE 3 DISTRIBUTION, 4000K, TEMPERED FLAT GLASS LENS, CRI 70+, NATURAL FINISH, LM70 = 150,000 HOURS	INVUE,
W3	WALL MOUNTED EXTERIOR LED	GARDCO #161-DCC-3-70LA-6453-NW-UNIV-NP	1	75W 7105 LUMENS 4000K LED	277	75	DIECAST ALUMINUM HOUSING, UL WET LOCATION LISTED, DLC QUALIFIED, PROVIDED WITH DUAL CIRCUITING OPTION, PROVIDE WITH (2) SEPARATE LED ARRAYS AND (2) DRIVERS WIRED INDEPENDENTLY, CONSTANT CURRENT 350mA DRIVER WITH (0-10V) DIMMING,FULL CUTOFF OPTICS, TYPE 3 DISTRIBUTION, 4000K, TEMPERED FLAT GLASS LENS, CRI 70+, NATURAL FINISH, LM70 = 180,000 HOURS	INVUE,
W4	RECESSED WALL MOUNTED LED STEPLIGHT	WINONA #STEP13-WL-6LONG-L-LST2A-WHT40K-MVOLT-DMD-BA	1	12W 202 LUMEN 4000K LED	277	12	DIECAST ALUMINUM HOUSING, BRUSHED ALUMINUM FINISH, WET LOCATION, INTEGRAL 277V DRIVER, (0-10V) DIMMING, PROVIDE WITH MANUFACTURERS RECOMMENDED BACKBOX,	
W5	WALL MOUNT EXTERIOR DIRECT/INDIRECT LED	LUMINIS #L2W11R0-24W-1945-80-4000K-277-MST-DS-R26U-R40D	1	25W 1945 LUMEN 4000K LED	277	25	ALUMINUM HOUSING, WET LOCATION IP66, DUAL SWITCHING FOR INDEPENDENT UPLIGHT & DOWNLIGHT CONTROL, MATTE SILVER FINISH, 80 CRI, 26 DEGREE UPLIGHT OPTIC, 40 DEGREE DOWNLIGHT OPTIC, (0-10V) DIMMING	
X1	EDGE-LIT LED EXIT SIGN	LITHONIA #LRP-W-#-RMR-##-120/277-##	1	4W LED	277	4	STEEL ROUGH-IN SECTION, ALUMINUM HOUSRING TRIM, INJECTION MOLDED ACRYLIC PANEL, PRECISION-MOLDED TEXTURED RED LETTERING, UL924, WHITE HOUSING FINISH, RED LETTERING ON MIRRORED BACKGROUND, DUAL-VOLTAGE INPUT, PROVIDE MOUNTING FOR LAYOUT INDICATED ON PLANS, PROVIDE FACES AND CHEVRONS FOR LAYOUT INDICATED ON PLANS, (NO ADHESIVE CHEVRONS WILL BE ACCEPTED)	SURE-LITES, EVENLITE,
X2	DIECAST ALUMINUM LED EXIT SIGN	LITHONIA #LQC-#-R	1	1W LED	277	1	DIECAST ALUMINUM CONSTRUCTION, BRUSHED ALUMINUM FACEPLATE, UL924, RED LETTERING, BLACK HOUSING COLOR, PROVIDE MOUNTING FOR LAYOUT INDICATED ON PLANS, PROVIDE FACES AND CHEVRONS FOR LAYOUT INDICATED ON PLANS, (NO ADHESIVE CHEVRONS WILL BE ACCEPTED)	SURE-LITES, EVENLITE,
X3	VANDAL RESISTANT WEATHER PROOF LED EXIT SIGN	LITHONIA #LV-S-W-#-R-120/277-4X	1	5W LED	277	5	CAST ALUMINUM CONSTRUCTION, NEMA 4X,CLEAR POLYCARBONATE COVER, STAINLESS STEEL FASTENERS, WHITE ON WHITE, RED LETTERING, UL924, WHITE HOUSING AND FACEPLATE FINISH, PROVIDE FACES AND CHEVRONS FOR LAYOUT INDICATED ON PLANS, (NO ADHESIVE CHEVRONS WILL BE ACCEPTED)	SURE-LITES, EVENLITE,
X4	THERMOPLASTIC EXIT SIGN	LITHONIA #LQM-S-W-3-R-120/277	1	1W LED	277	1	IMPACT-RESISTANT THERMOPLASTIC HOUSING, UL924, RED LETTERING, WHITE HOUSING, DUAL-VOLTAGE INPUT, PROVIDE MOUNTING FOR LAYOUT INDICATED ON PLANS, PROVIDE FACES AND CHEVRONS FOR LAYOUT INDICATED ON PLANS, (NO ADHESIVE CHEVRONS WILL BE ACCEPTED)	SURE-LITES, EVENLITE,

NOTES:
1. WIRE ALL EXIT SIGNS AND EMERGENCY BATTERY PACKS AHEAD OF ALL SWITCHING
2. WHERE DUAL SWITCHING IS INDICATED, FIXTURES SHALL BE PROVIDED WITH MULTIPLE BALLAST
3. (SUPER T8) = HIGH PERFORMANCE LAMP AND BALLAST COMBINATION
4. PROVIDE BALLAST DISCONNECT IN ALL FIXTURES IN ACCORDANCE WITH NEC 2008 ARTICLE 410.130(G)
5. ALL 0-10VOLT LED DIMMING DRIVERS SHALL MEET THE REQUIREMENTS OF IEC 60929 AND SHALL HAVE AN ISOLATED 0-10VDC CONTROL CIRCUIT

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Sanford School Department and State of Maine Department of Education

SANFORD HIGH SCHOOL and TECHNICAL CENTER

SANFORD, ME 04073

NO.	DESCRIPTION	DATE

CONTENT: LIGHTING FIXTURE SCHEDULE

DRAWN BY: C. NEWELL
PROJECT NO: 12-067-00
DATE: 02/11/2016
REVISED:
SCALE: NO SCALE

E4.01

Project Phase
BID DOCUMENTS

FOR ADDITIONAL INFORMATION, REFER TO PROJECT MANUAL.

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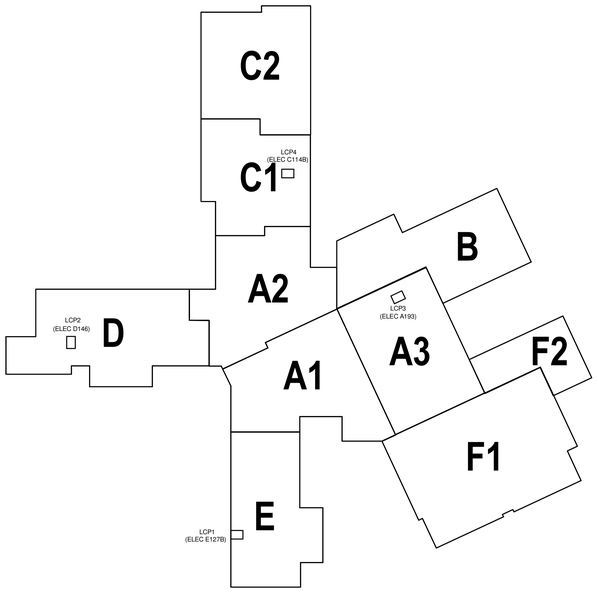
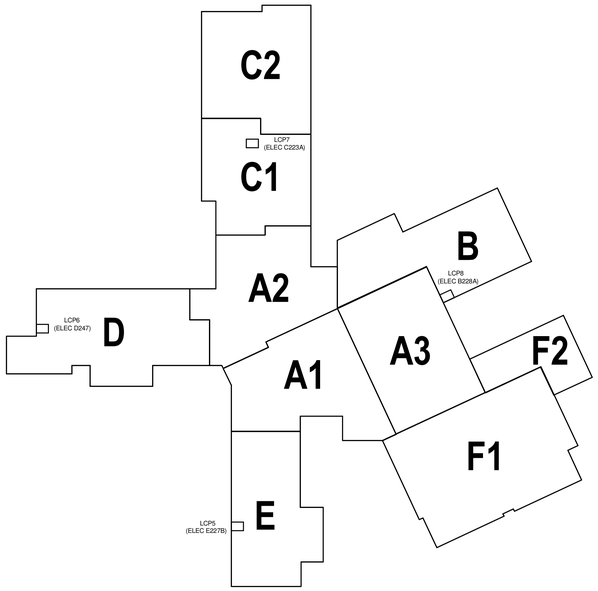
DRAWING NOTES

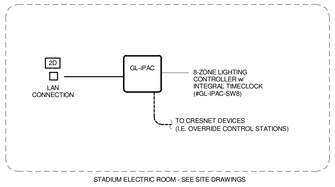
1. THE FOLLOWING NOTES ONLY APPLY TO THIS DRAWING.
2. REFER TO GENERAL NOTES, ELECTRICAL TRADE NOTES, LEGEND AND ABBREVIATIONS ON DRAWING E0.01.
3. QUANTITY OF DEVICES VARIES, SEE PLANS.

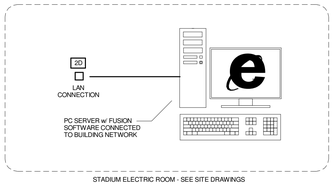


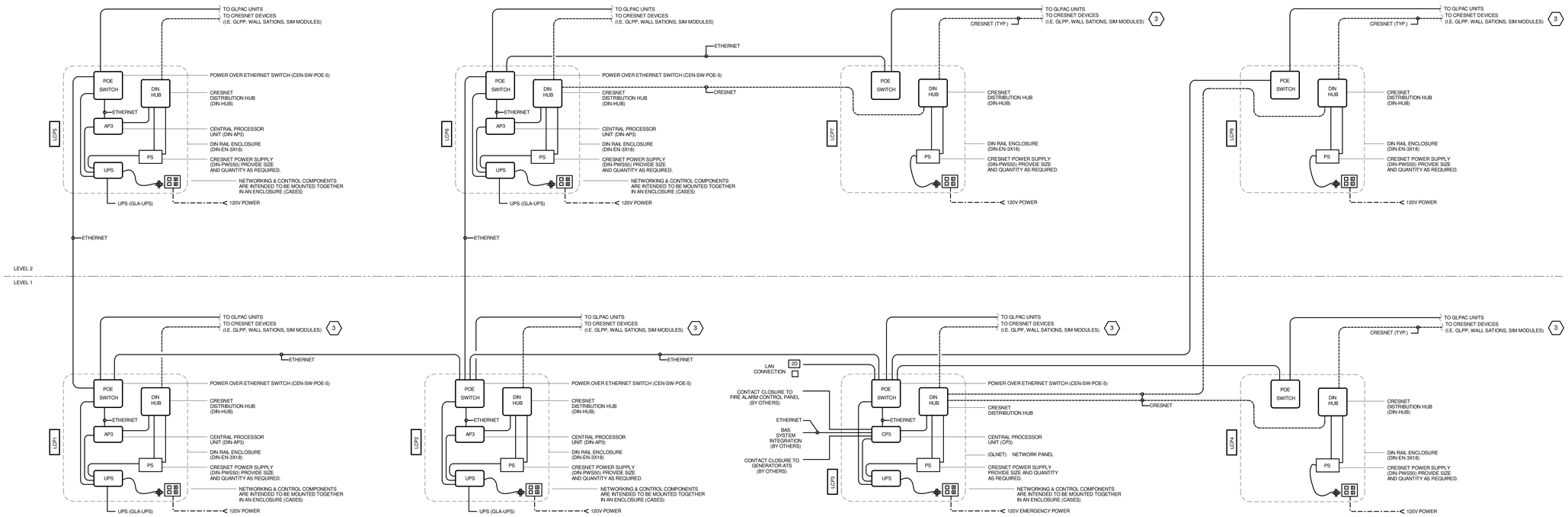
1 FIRST FLOOR AREA PLAN
NOT TO SCALE



2 SECOND FLOOR AREA PLAN
NOT TO SCALE







3 LIGHTING CONTROL SYSTEM OVERVIEW RISER DIAGRAM
NOT TO SCALE

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CONTENT:
LIGHTING DETAILS

DRAWN BY:	C. NEWELL
PROJECT NO:	12-067-00
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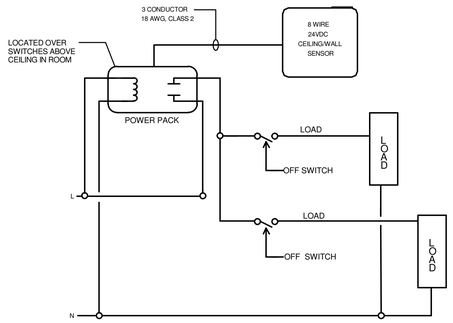
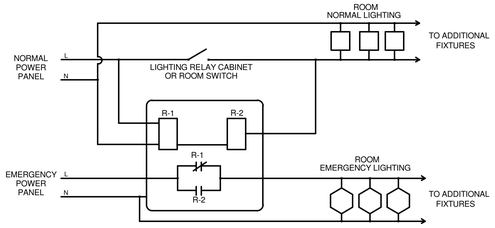
2. REFER TO GENERAL NOTES, ELECTRICAL TRADE NOTES, LEGEND AND ABBREVIATIONS ON DRAWING E0.01.



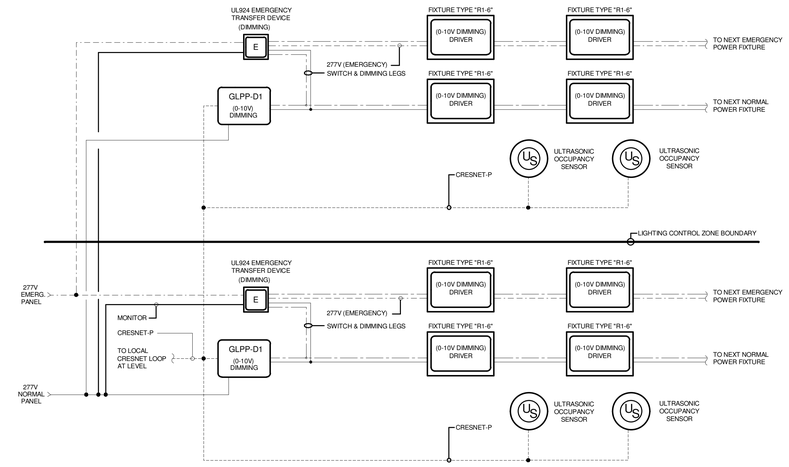
NOTE: WIRING DIAGRAM BASED UPON WATT STOPPER. ALL WIRING DIAGRAMS SHALL BE COORDINATED WITH MANUFACTURER AND PROVIDED WITH SUBMITTALS.

1 TYPICAL OCCUPANCY SENSOR WIRING DIAGRAM
NOT TO SCALE

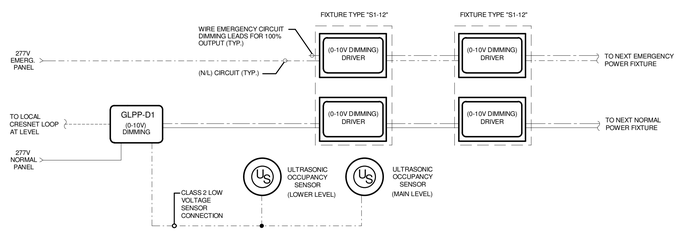


NOTE: WIRING DIAGRAM BASED UPON NINE 24 INC. ALL WIRING DIAGRAMS SHALL BE COORDINATED WITH MANUFACTURER AND PROVIDED WITH SUBMITTALS.

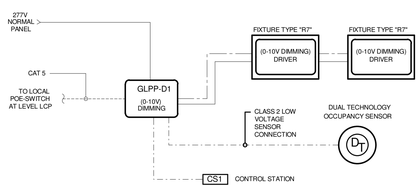
2 EMERGENCY LIGHTING TRANSFER DEVICE FOR SWITCHED LIGHTING LOADS WIRING DIAGRAM
NOT TO SCALE



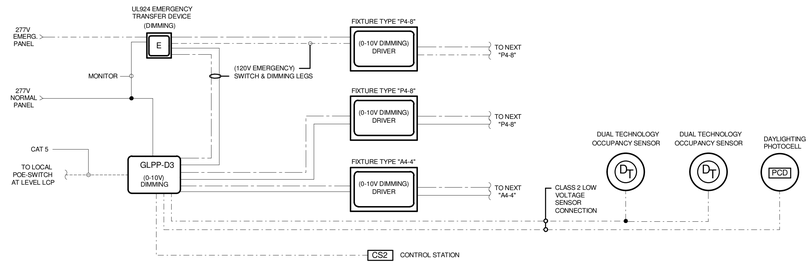
3 TYPICAL CORRIDOR - LIGHTING CONTROL SYSTEM RISER DIAGRAM
NOT TO SCALE



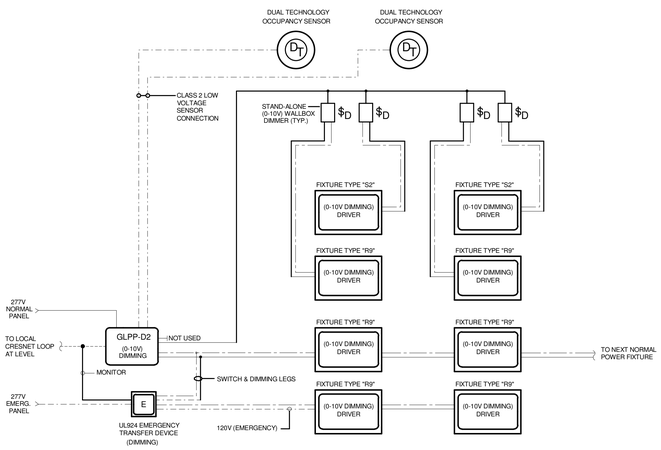
4 TYPICAL STAIRWELL - LIGHTING CONTROL SYSTEM RISER DIAGRAM
NOT TO SCALE



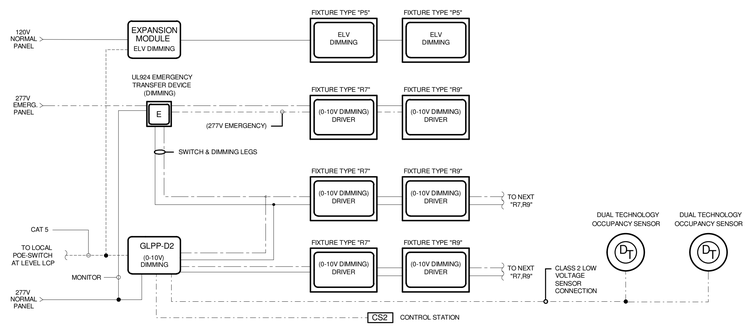
5 TYPICAL OFFICE - LIGHTING CONTROL SYSTEM RISER DIAGRAM
NOT TO SCALE



6 TYPICAL CLASSROOM - LIGHTING CONTROL SYSTEM RISER DIAGRAM
NOT TO SCALE



7 NURSE COMMON AREA D105B - LIGHTING CONTROL SYSTEM RISER DIAGRAM
NOT TO SCALE



8 CTE ADMIN. - A110, RECEPTION - A101, GUIDANCE RECEPTION - A210A, & SPECIAL ED - A201
LIGHTING CONTROL SYSTEM RISER DIAGRAM
NOT TO SCALE

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No. 10697
LICENSED
PROFESSIONAL ENGINEER

Sanford School Department and
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SANFORD, ME 04073

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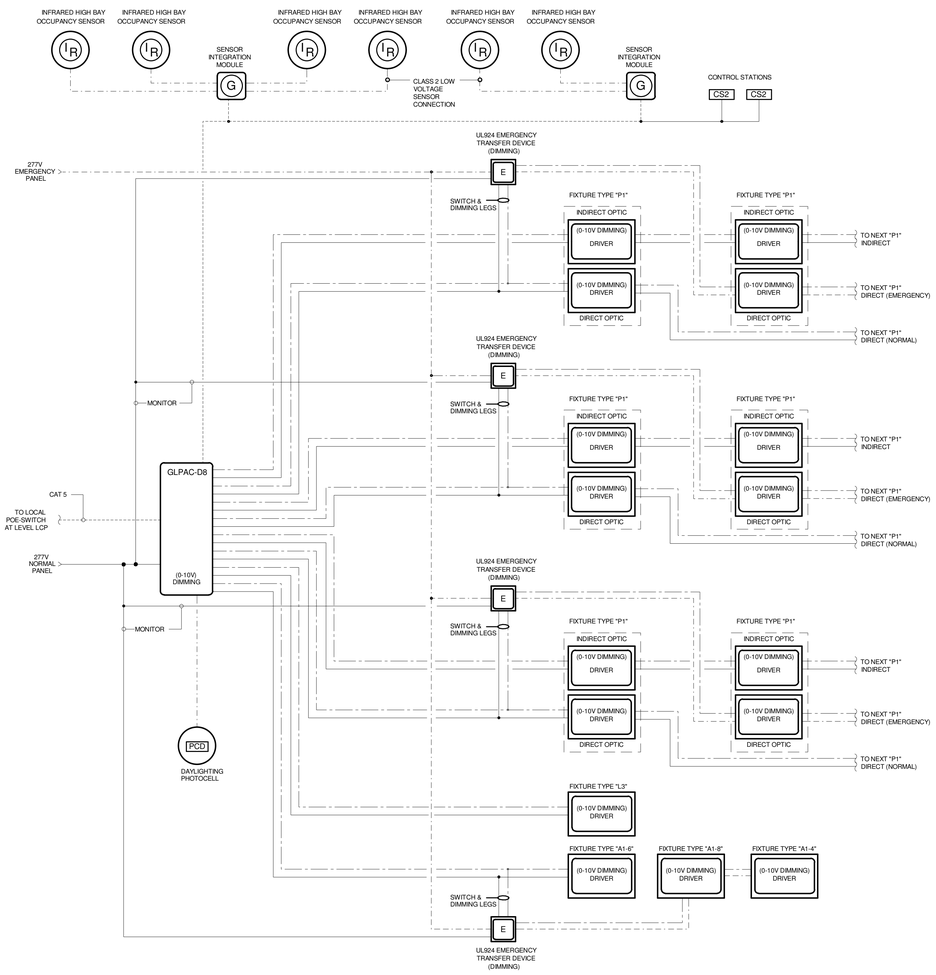
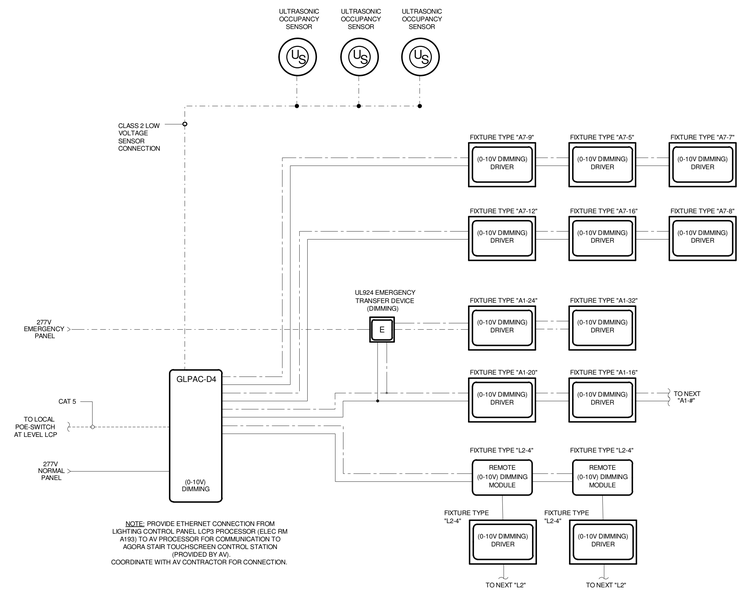


1 DINING A151 - LIGHTING CONTROL SYSTEM RISER DIAGRAM
NOT TO SCALE



2 OPEN STEPPED PRESENTATION AREA A121A - LIGHTING CONTROL SYSTEM RISER DIAGRAM
NOT TO SCALE

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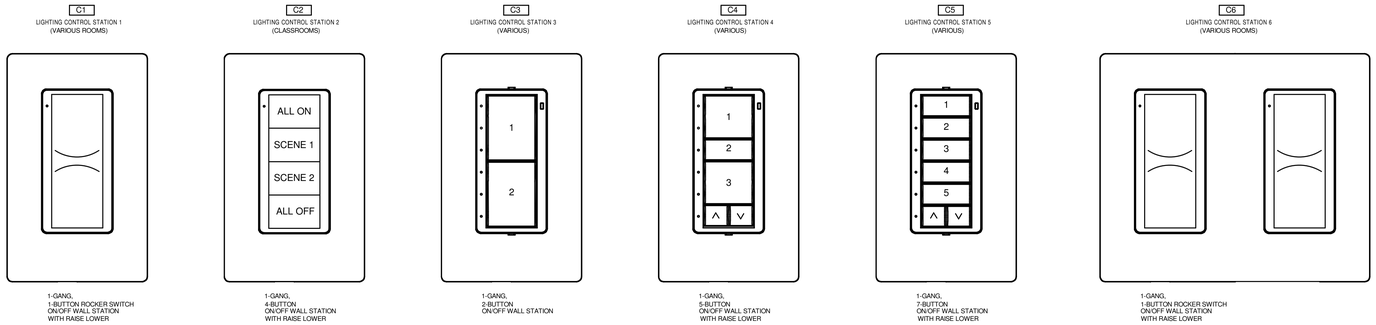

1 LIGHTING CONTROL STATION ELEVATIONS
NOT TO SCALE

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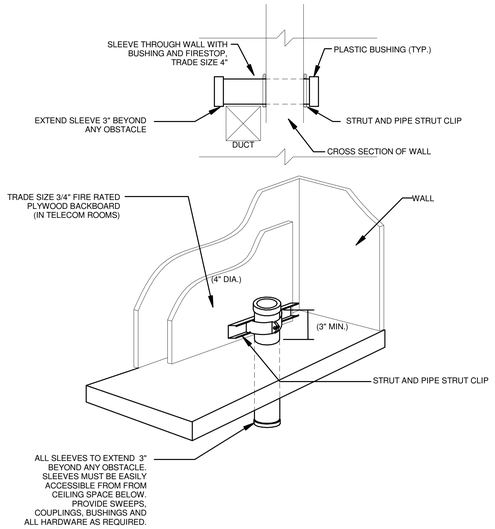
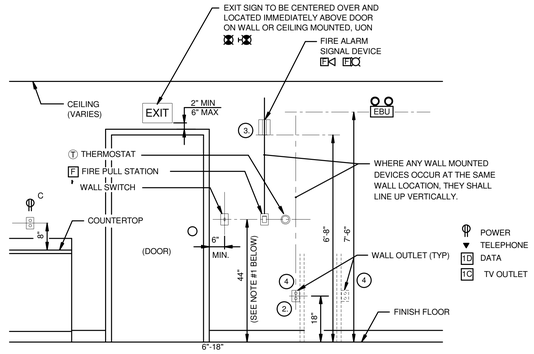


1 SLEEVE / CONDUIT DETAILS
NOT TO SCALE



2 TYPICAL DEVICE LOCATIONS
NOT TO SCALE

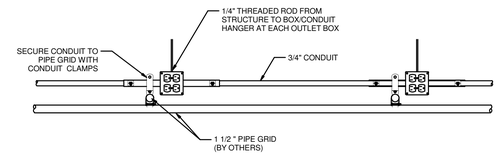
NOTE:

1 HEIGHT GIVEN FOR THIS DEVICE IS THE MAXIMUM HEIGHT TO THE HIGHEST OPERABLE PART OF THE DEVICE

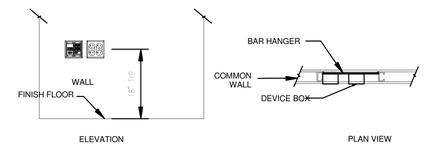
2 WHERE ELECTRICAL DEVICES ARE LOCATED ON EXTERIOR WALLS ABOVE FINTUBE, MOUNT DEVICES ABOVE FINTUBE. MOUNTING HEIGHT SHALL BE MINIMUM 18" AFF OR 4" ABOVE TOP OF FINTUBE ENCLOSURE. COORDINATE FINTUBE LOCATIONS, SIZE AND MOUNTING HEIGHT WITH MECHANICAL CONTRACTOR.

3 MOUNT SIGNAL DEVICE WITH BOTTOM OF LENS AT 80" AFF.

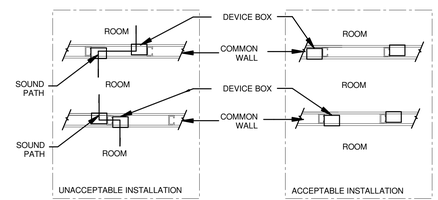
4 WHERE LOCATED ON OPPOSITE SIDES OF COMMON WALLS, DEVICE BOXES SHALL NOT BE INSTALLED BACK-TO-BACK IN THE SAME STUD BAY. WHERE POSSIBLE, ALL BOXES SHALL BE ONE COMPLETE STUD BAY APART.



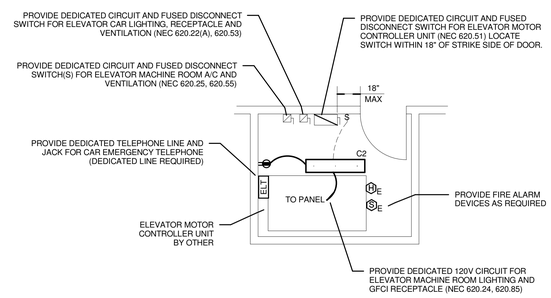
3 GRID MOUNTED OUTLET DETAIL
1/2"=1'-0"



MOUNTING OF ADJACENT ELECTRICAL AND TELECOMMUNICATIONS DEVICE BOXES



6 ACCEPTABLE DEVICE BOX MOUNTING LOCATION
NOT TO SCALE

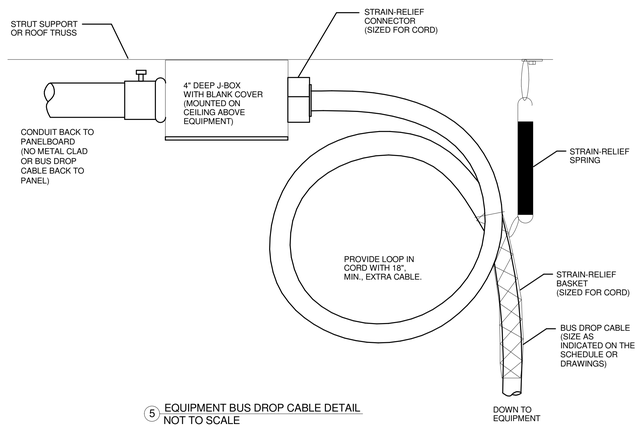


4 TYPICAL ELEVATOR MACHINE ROOM LAYOUT
NOT TO SCALE

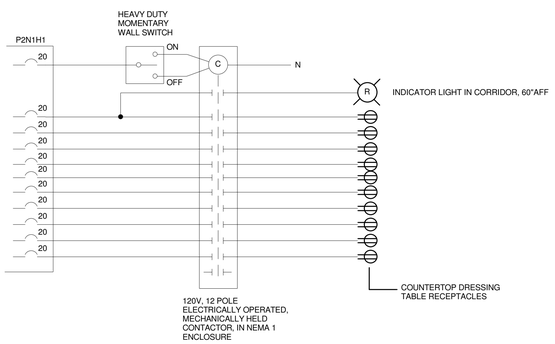
NOTES:

1. THE INSTALLATION OF ELECTRICAL EQUIPMENT AND WIRING ASSOCIATED WITH ELEVATORS, DUMBWAITERS, ESCALATORS, MOVING WALKS, WHEELCHAIR LIFTS AND STAIRWAY LIFTS SHALL CONFORM WITH THE REQUIREMENTS OF THE CURRENT NATIONAL ELECTRIC CODE, ARTICLE 620 AND THE MOST RECENT VERSION OF THE SAFETY CODE FOR ELEVATORS AND ESCALATORS, ANSI/ASME A17.1.

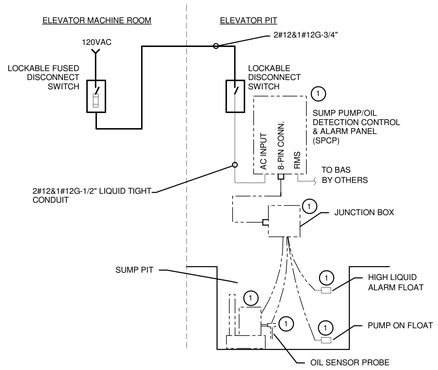
2. THIS DETAIL PROVIDED FOR TYPICAL LAYOUT INFORMATION ONLY. REFER TO ELECTRICAL FLOOR PLANS FOR EXACT SHAPE OF MACHINE ROOM(S) AND FOR EQUIPMENT, DEVICES AND CIRCUITS REQUIRED FOR THIS PROJECT. COORDINATE FINAL LOCATION OF ALL EQUIPMENT WITH ELEVATOR EQUIPMENT VENDOR.



5 EQUIPMENT BUS DROP CABLE DETAIL
NOT TO SCALE



DRESSING ROOM, COUNTERTOP RECEPTACLE CONTROL DIAGRAM, WITH INDICATOR LIGHT (TYPICAL FOR TWO DRESSING ROOMS)
7 NOT TO SCALE



8 SUMP PUMP & OIL DETECTION WIRING DIAGRAM
NOT TO SCALE

NOTES:

1 EQUIPMENT AND PREMANUFACTURED CABLES FURNISHED BY PLUMBING, INSTALLED AND TERMINATED BY ELECTRICAL.

2 COORDINATE THE LOCATION OF EQUIPMENT WITH ELEVATOR CONTRACTOR PRIOR TO THE INSTALLATION OF ANY CONDUIT OR CABLE.

3 ALL WORK SHALL BE IN ACCORDANCE WITH THE NEC

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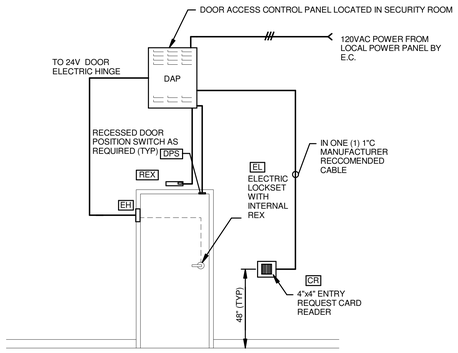
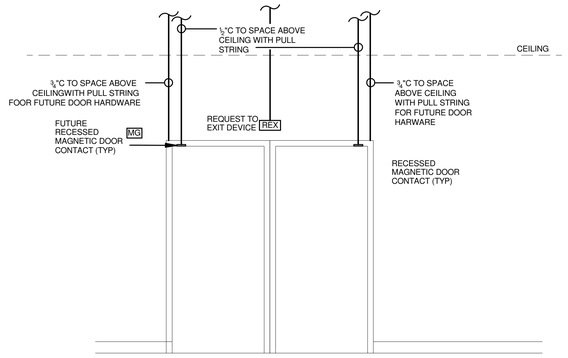


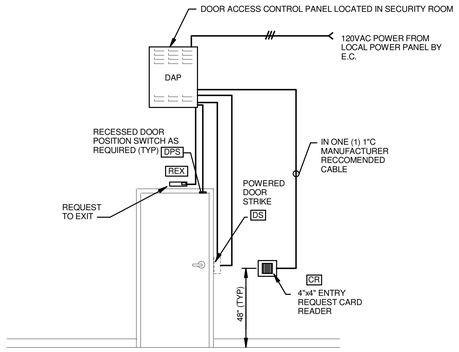
1 TYPICAL SECURED SINGLE DOOR W/ELECTRIC LOCKSET ELEVATION/WIRING DIAGRAM
NOT TO SCALE



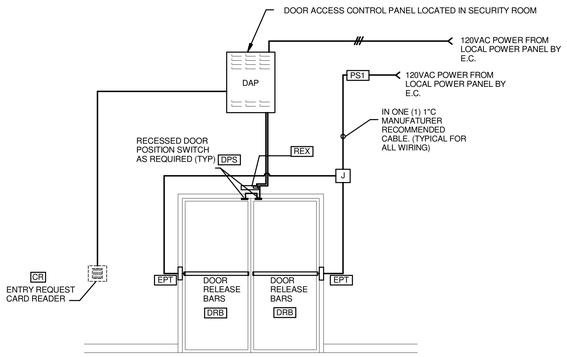
NOTES

1. PROVIDE ABOVE CONFIGURATION FOR ALL DOUBLE DOORS INDICATED TO HAVE CARD READERS.

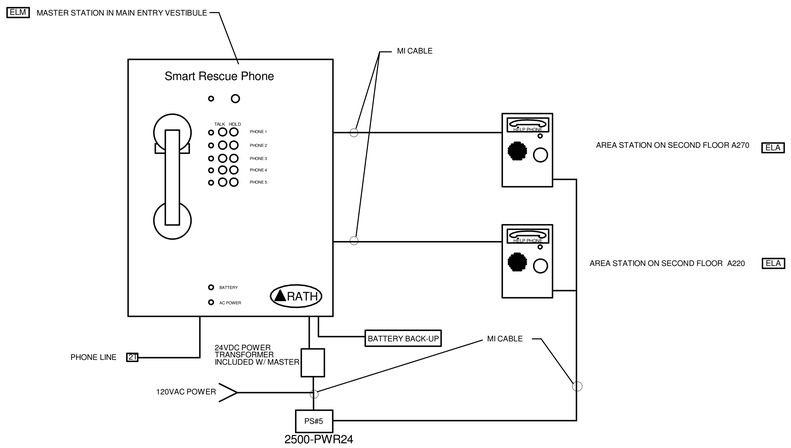
2 TYPICAL SECURED DOUBLE DOOR ELEVATION/WIRING DIAGRAM
NOT TO SCALE



3 TYPICAL SECURED SINGLE DOOR W/ELECTRIC STRIKE ELEVATION/WIRING DIAGRAM
NOT TO SCALE



4 TYPICAL SECURED DOUBLE DOOR ELEVATION/WIRING DIAGRAM
NOT TO SCALE



5 ELEVATOR LOBBY COMMUNICATION SYSTEM DIAGRAM
NOT TO SCALE

1. PROVIDE TELEPHONE LINE FOR DIALER FOR TWO WAY COMMUNICATIONS TO THE DESIGNATED CENTRAL STATION AS COORDINATED WITH OWNER.

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DRAWING NOTES

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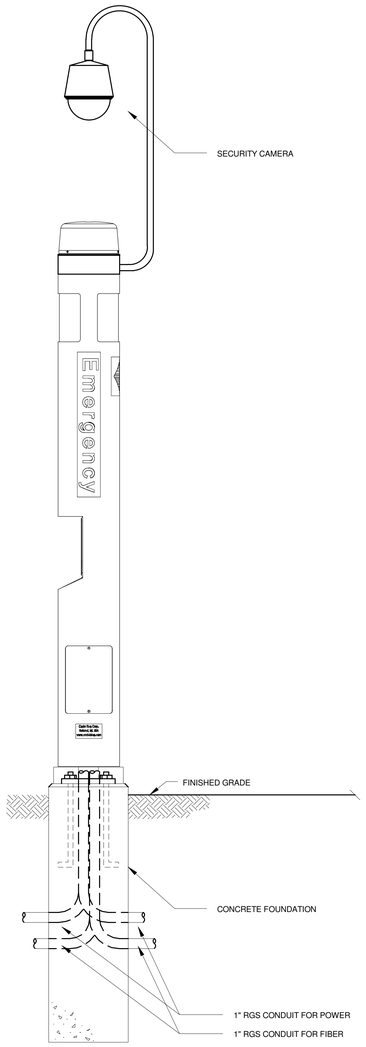
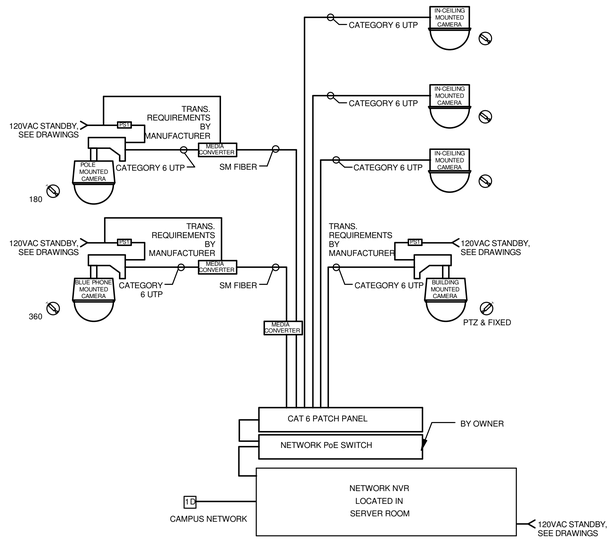
2 REFER TO GENERAL NOTES, ELECTRICAL TRADE NOTES, LEGEND AND ABBREVIATIONS ON DRAWING E0.01.



1 TYPICAL BLUE PHONE PEDESTAL DIAGRAM
NOT TO SCALE

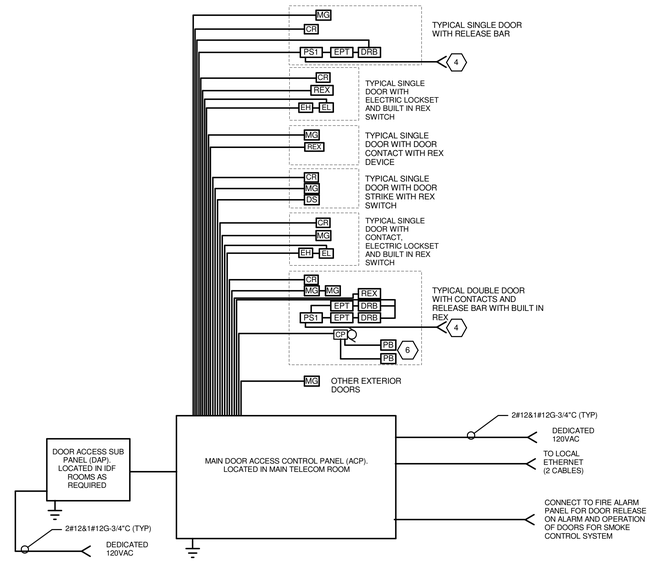
NOTES:

1. PROVIDE ALL REQUIRED SURGE/GROUNDING PROTECTION ON SUPPORTING CABLING .



2 TYPICAL CCTV CAMERA RISER DIAGRAM
NOT TO SCALE

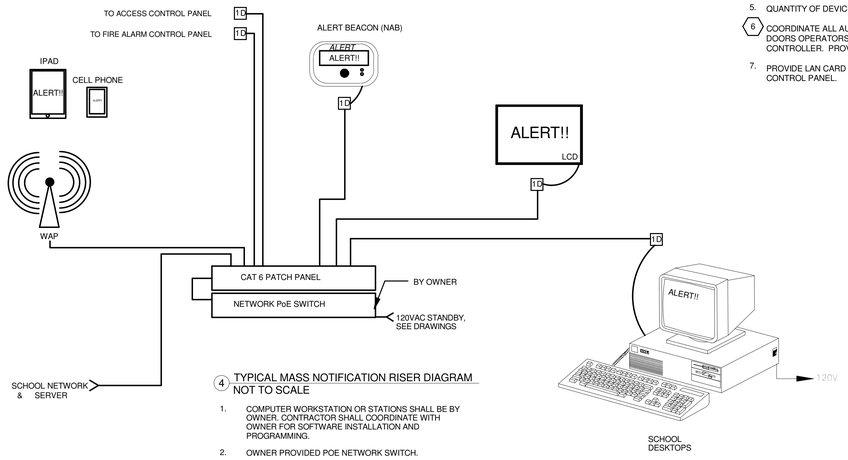
1. CONFIRM LOCATION OF CAMERAS ON FLOOR AND SITE PLANS.
2. OWNER PROVIDED POE NETWORK SWITCH.
3. COORDINATE FIELDS OF VIEW WITH OWNER PRIOR TO INSTALLATION.
4. REFER TO ES SERIES OF DRAWINGS FOR SITE RELATED CAMERA LOCATIONS.



3 DOOR ACCESS RISER DETAIL
NOT TO SCALE

NOTES

1. THIS RISER DIAGRAM IS FOR REFERENCE PURPOSES ONLY. QUANTITY, LOCATION AND WIRING DISTANCES BETWEEN DEVICES SHALL BE VERIFIED BY CONTRACTOR IN THE FIELD.
2. QUANTITY AND LOCATION OF DAP PANELS AND DC POWER SUPPLIES SHALL BE AS REQUIRED BY THE MANUFACTURER. ADDITIONAL DAP PANELS, POWER SUPPLIES AND BRANCH CIRCUITS FROM THOSE INDICATED ON THE CONTRACT DOCUMENTS SHALL BE INCLUDED IN THE ELECTRICAL CONTRACTORS BID.
3. DRB, DS, EL, EH & PS PROVIDED BY DOOR HARDWARE MANUFACTURER, INSTALLED AND POWERED BY E.C.
4. 120VAC STANDBY POWER.
5. QUANTITY OF DEVICES VARIES, SEE PLANS FOR EXACT QUANTITY AND LOCATIONS.
6. COORDINATE ALL AUTOMATIC DOOR OPENERS WITH ACCESS CONTROL SYSTEM. DOORS OPERATORS SHALL NOT OPERATE WITHOUT AUTHORIZATION THROUGH ACCESS CONTROLLER. PROVIDE ALL RELAYS AND WIRING AS REQUIRED.
7. PROVIDE LAN CARD FOR CONNECTIVITY TO THE OWNER PROVIDED DATA OUTLET AT CONTROL PANEL.



4 TYPICAL MASS NOTIFICATION RISER DIAGRAM
NOT TO SCALE

1. COMPUTER WORKSTATION OR STATIONS SHALL BE BY OWNER. CONTRACTOR SHALL COORDINATE WITH OWNER FOR SOFTWARE INSTALLATION AND PROGRAMMING.
2. OWNER PROVIDED POE NETWORK SWITCH.
3. COORDINATE WITH OWNER THE PROGRAMMING OF LEVELS OF ALARM AND MESSAGING PRIOR TO INSTALLATION.
4. COORDINATE WITH ACCESS CONTROL SYSTEM FOR BUILDING LOCKDOWN.
5. COORDINATE WITH FIRE ALARM CONTRACTOR FOR CONNECTION TO AUDIO OUTPUT, MASS NOTIFICATION STROBE UNITS AND EXTERIOR BEACON.

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Sanford School Department and State of Maine Department of Education

SANFORD HIGH SCHOOL and TECHNICAL CENTER

SANFORD, ME 04073

NO.	DESCRIPTION	DATE

FOR ADDITIONAL INFORMATION, REFER TO PROJECT MANUAL.

CONTENT:
ELECTRICAL DETAILS

DRAWN BY:	C. NEWELL
PROJECT NO:	12-067-00
DATE:	02/11/2016
REVISED:	
SCALE:	AS NOTED

E5.03

Project Phase
BID DOCUMENTS

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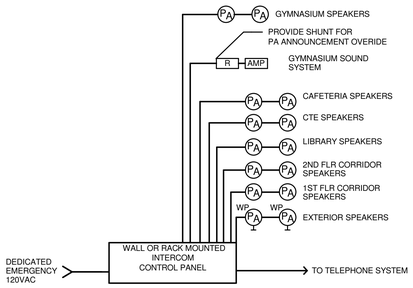
2/4/2016 3:00:56 PM C:\Users\cnewell\Desktop\DRAWINGS\REVIT MEP\7300 2016 FORMAT\7300 Central Elect 2016.rvt

DRAWING NOTES

1 THE FOLLOWING NOTES ONLY APPLY TO THIS DRAWING.

2 REFER TO GENERAL NOTES, ELECTRICAL TRADE NOTES, LEGEND AND ABBREVIATIONS ON DRAWING E0.01.



NOTES

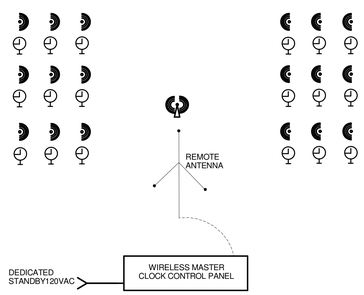
1. THIS RISER DIAGRAM IS FOR REFERENCE PURPOSES ONLY. QUANTITY, LOCATION AND WIRING DISTANCES BETWEEN DEVICES SHALL BE VERIFIED BY CONTRACTOR IN THE FIELD.
2. PROVIDE QUANTITY OF INTERCOM CIRCUITS AS REQUIRED FOR NUMBER OF DEVICES PLUS 20% SPARE AND WIRING DISTANCE LIMITATIONS.
3. COORDINATE TALK BACK SPEAKER LOCATION BASED ON LAYOUT OF EACH ROOM.
4. PROVIDE WIRE GUARDS AS SHOWN ON THE FLOOR PLANS AND AS REQUIRED.

1 INTERCOM SYSTEM RISER DIAGRAM
NOT TO SCALE

INTERCOM SPEAKER ZONES

ZONE	BUILDING AREA
1	1st FLOOR CORRIDORS
2	2nd FLOOR CORRIDORS
3	LIBRARY
4	EXTERIOR
5	GYMNASIUM
6	CAFETERIA
7	ALL CALL
8	EMERGENCY ALL CALL
9	CTE
10-32	SPARE

NOTES:
THE ABOVE ZONES SHALL BE PROVIDED AT A MINIMUM. CONTRACTOR SHALL COORDINATE ZONING WITH OWNER PRIOR TO INSTALLATION.



2 MASTER CLOCK SYSTEM RISER DIAGRAM
NOT TO SCALE

NOTES

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2. PROVIDE REMOTE ANTENNA LOCATION BASED ON SIGNAL STRENGTH AND DETERMINED BY THE MANUFACTURER.
3. PROVIDE WIRE GUARDS AS NOTED ON DRAWINGS.

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SANFORD, ME 04073

NO.	DESCRIPTION	DATE

CONTENT:
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DRAWN BY:	C. NEWELL
PROJECT NO:	12-067-00
DATE:	02/11/2016
REVISED:	
SCALE:	AS NOTED

E5.04

Project Phase
BID DOCUMENTS

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DRAWING NOTES

1. THE FOLLOWING NOTES ONLY APPLY TO THIS DRAWING.
2. A: REFER TO GENERAL NOTES, ELECTRICAL TRADE NOTES, LEGEND AND ABBREVIATIONS ON DRAWING E0.01.
3. TYPE G1 SIGNAGE FIXTURES ARE TO BE PROVIDE UNDER ALTERNATE #7 ONLY. UNDER BASE BID, PROVIDE DIRECT BURIED POLE AND BASE, AND CONDUIT WITH PULLSTRING BACK TO NEAREST LIGHTING HANDHOLE. SEE F1/G1 FIXTURE DIRECT BURIAL POLE MOUNTING DETAIL ON DRAWING ES2.04. UNDER ALTERNATE, FIXTURES SHALL BE CIRCUITED TO NEAREST SITE POLE FIXTURE. UNDER BASE BID, POLES SHALL BE CAPPED (FOR FUTURE USE).
4. PROVIDE ONE SPARE 1 1/4" PVC CONDUIT (WITH PULL ROPE) FROM ELECTRIC ROOM E127B ALONG WITH SITE LIGHTING CIRCUIT #5 OUT TO HANDHOLE AT THE SCHOOL MAIN ENTRANCE (AT ROUTE 109) FOR FUTURE USE BY OTHERS.

1 ELECTRICAL SITE PLAN
1" = 20'-0"

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CONTENT:
ELECTRICAL SITE PLAN

DRAWN BY:	C. NEWELL
PROJECT NO:	12-067-00
DATE:	02/11/2016
REVISED:	
SCALE:	AS NOTED

ES1.01

Project Phase
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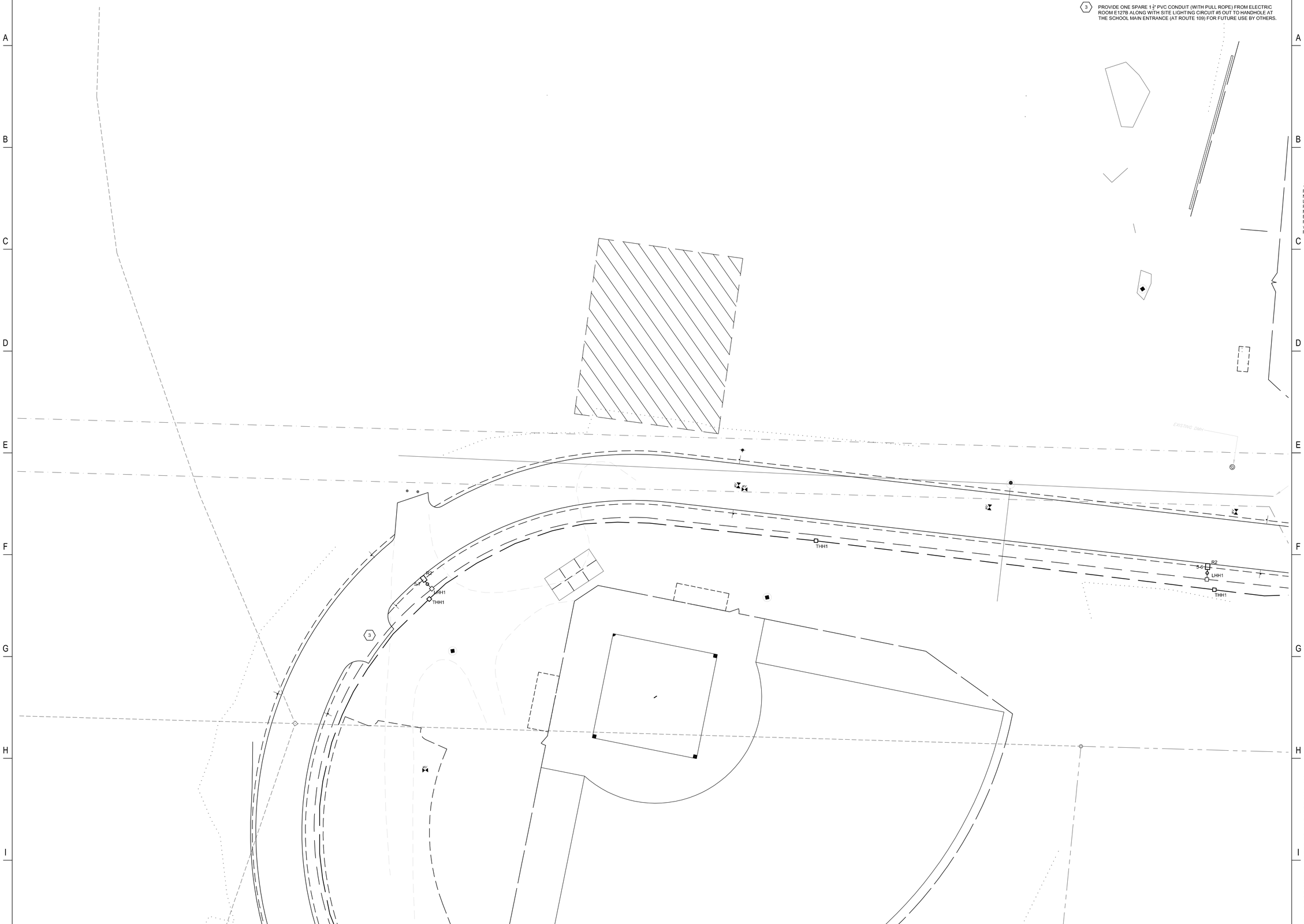

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SANFORD, ME 04073

NO.	DESCRIPTION	DATE

CONTENT:
ELECTRICAL SITE PLAN

DRAWN BY:	C. NEWELL
PROJECT NO:	12-067-00
DATE:	02/11/2016
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SCALE:	AS NOTED

ES1.02

Project Phase
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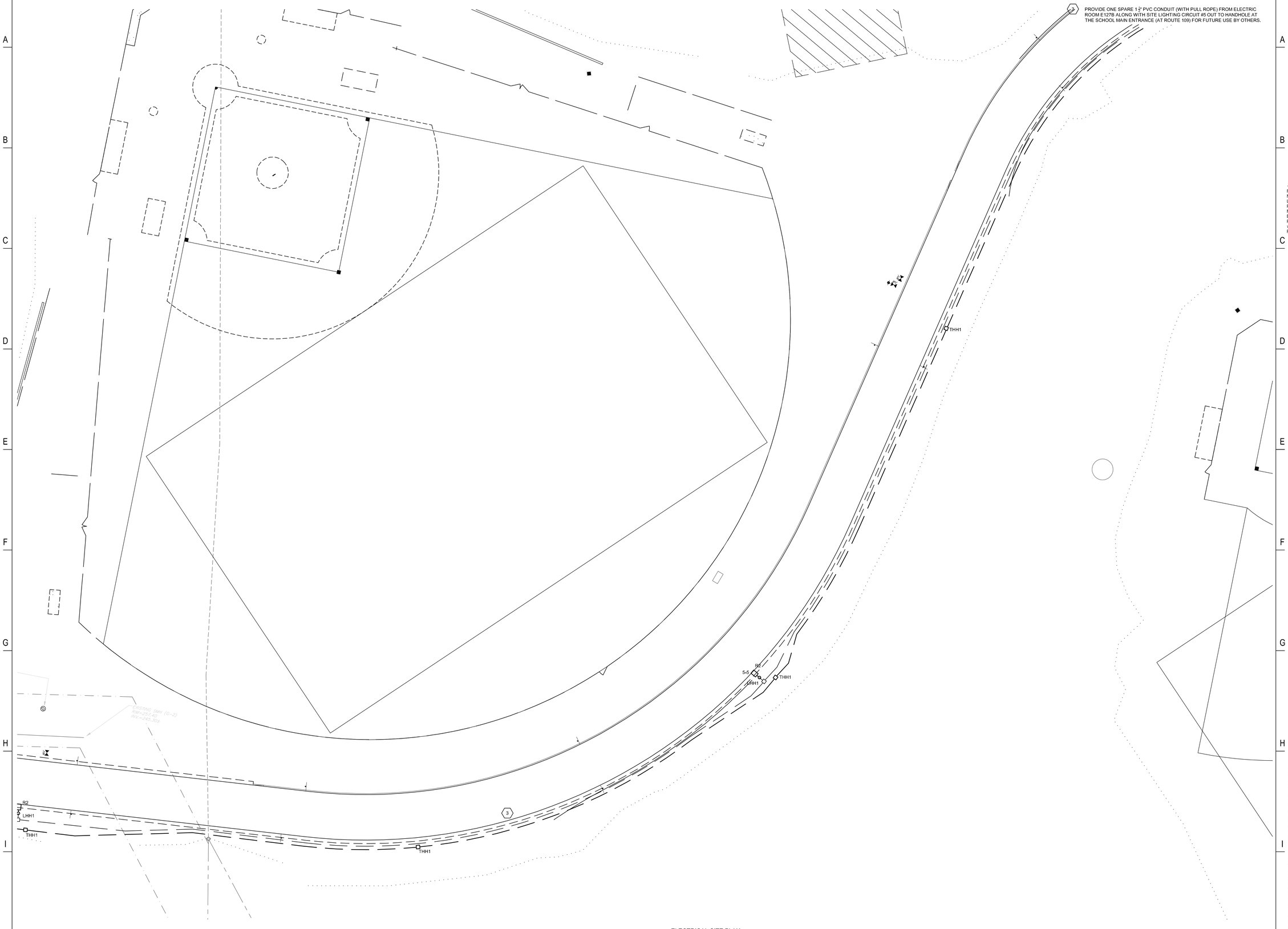

1 ELECTRICAL SITE PLAN
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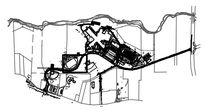

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ES1.03

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4. PROVIDE 4 STRAND SM FIBER FROM CCTV HEADEND IN SERVER ROOM TO CAMERA IN THIS LOCATION. FIBER SHALL BE TERMINATED IN POLE MOUNTED ENCLOSURE AND PATCHED TO MEDIA CONVERTOR. PROVIDE OSP CAT 6 CABLE FROM MEDIA CONVERTOR TO CAMERA IN THIS LOCATION.
5. PROVIDE ONE SPARE 1½" PVC CONDUIT (WITH PULL ROPE) FROM ELECTRIC ROOM E127B ALONG WITH SITE LIGHTING CIRCUIT #5 OUT TO HANDHOLE AT THE SCHOOL MAIN ENTRANCE (AT ROUTE 109) FOR FUTURE USE BY OTHERS.

1 ELECTRICAL SITE PLAN
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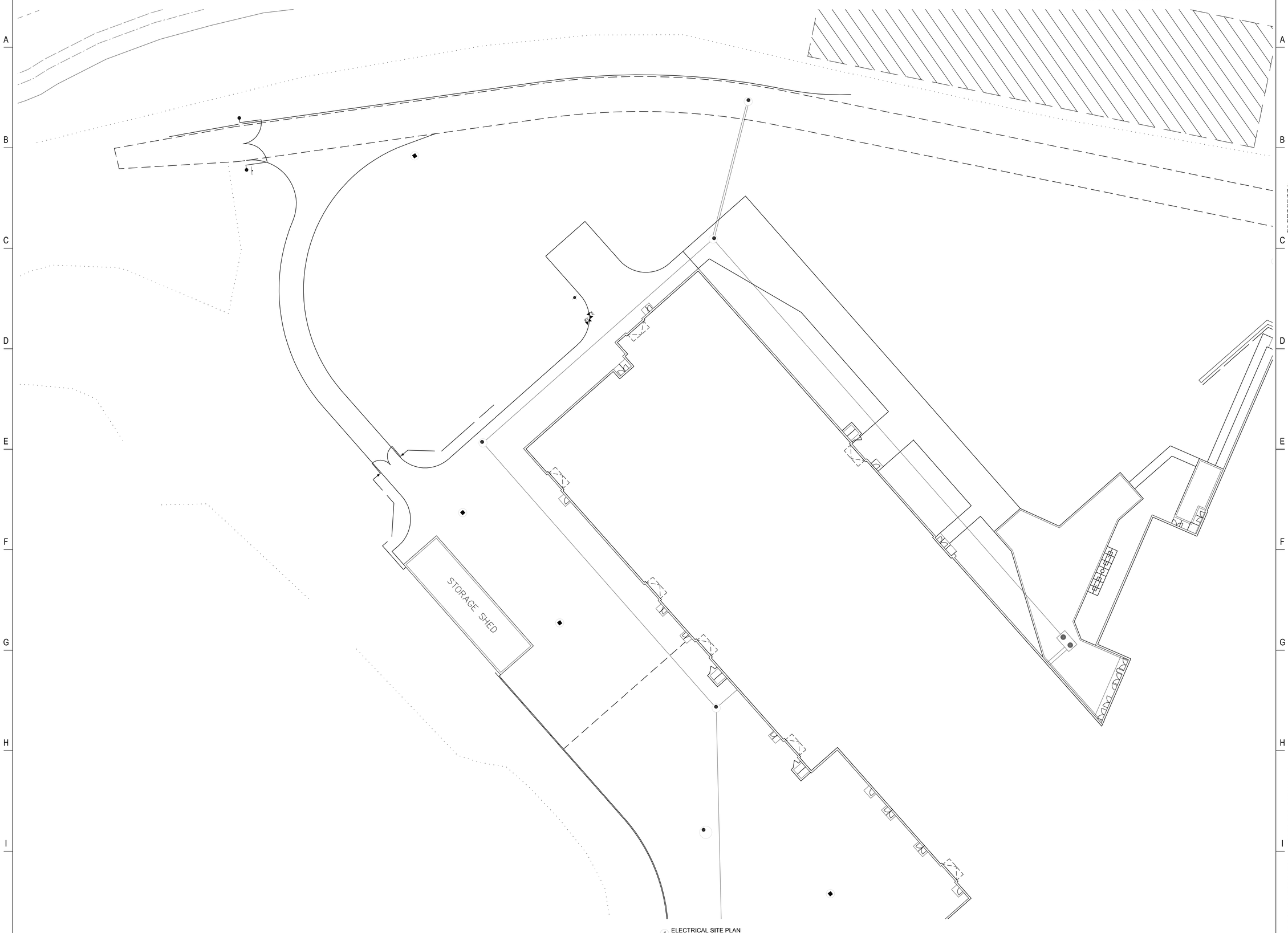

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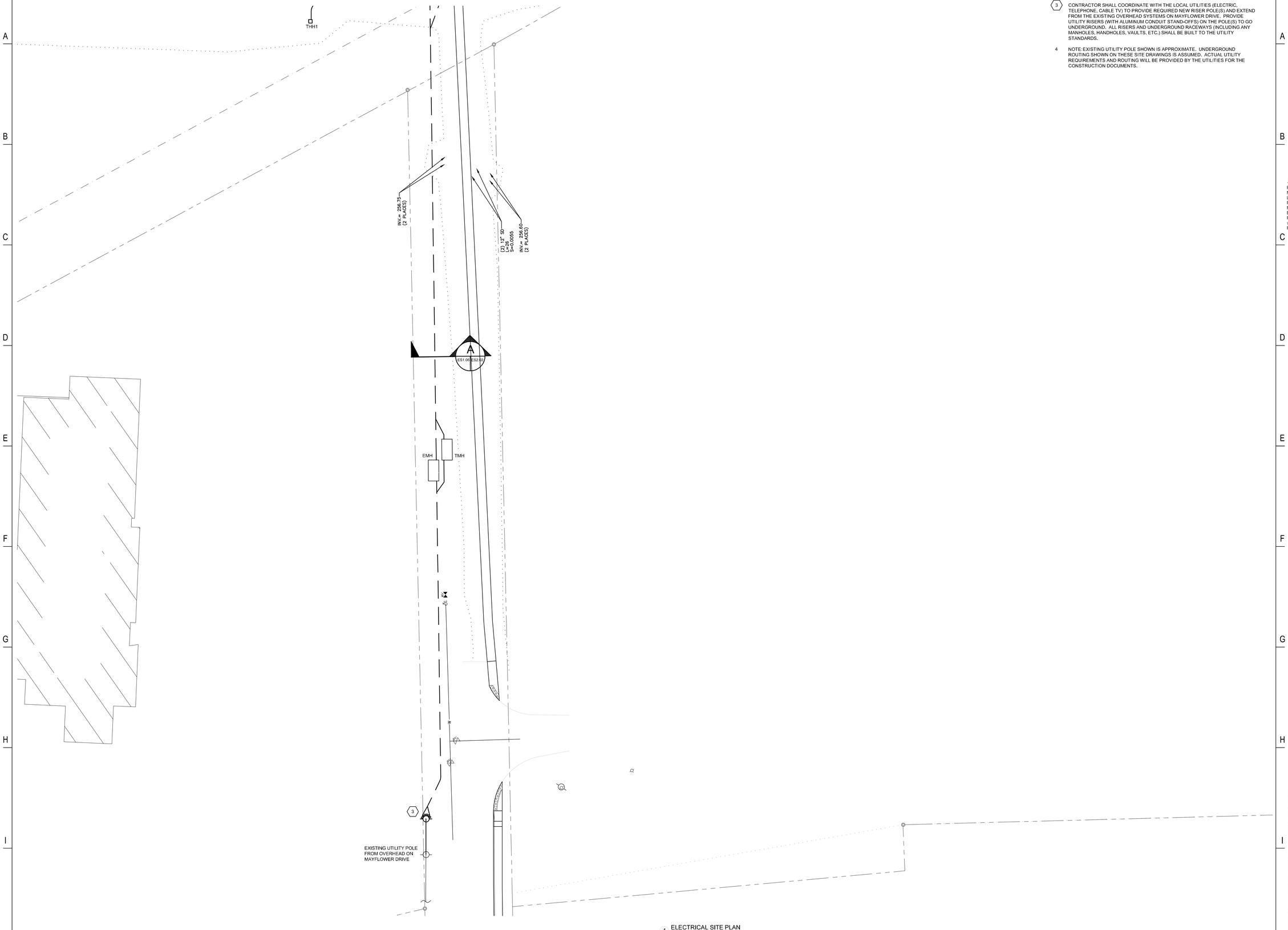

1 ELECTRICAL SITE PLAN
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DRAWING NOTES

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2 REFER TO GENERAL NOTES, ELECTRICAL TRADE NOTES, LEGEND AND ABBREVIATIONS ON DRAWING E0.01.

3 CONTRACTOR SHALL COORDINATE WITH THE LOCAL UTILITIES (ELECTRIC, TELEPHONE, CABLE TV) TO PROVIDE REQUIRED NEW RISER POLE(S) AND EXTEND FROM THE EXISTING OVERHEAD SYSTEMS ON MAYFLOWER DRIVE. PROVIDE UTILITY RISERS (WITH ALUMINUM CONDUIT STAND-OFFS) ON THE POLE(S) TO GO UNDERGROUND. ALL RISERS AND UNDERGROUND RACEWAYS (INCLUDING ANY MANHOLES, HANDHOLES, VAULTS, ETC.) SHALL BE BUILT TO THE UTILITY STANDARDS.

4 NOTE:EXISTING UTILITY POLE SHOWN IS APPROXIMATE. UNDERGROUND ROUTING SHOWN ON THESE SITE DRAWINGS IS ASSUMED. ACTUAL UTILITY REQUIREMENTS AND ROUTING WILL BE PROVIDED BY THE UTILITIES FOR THE CONSTRUCTION DOCUMENTS.

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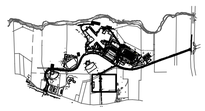

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SANFORD, ME 04073

NO.	DESCRIPTION	DATE

CONTENT:
ELECTRICAL SITE PLAN

DRAWN BY:	C. NEWELL
PROJECT NO:	12-067-00
DATE:	02/11/2016
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SCALE:	AS NOTED

ES1.06

Project Phase
BID DOCUMENTS

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3 PROVIDE 4 STRAND SM FIBER FROM CCTV HEADEND IN SERVER ROOM TO CAMERA IN THIS LOCATION. FIBER SHALL BE TERMINATED IN POLE MOUNTED ENCLOSURE AND PATCHED TO MEDIA CONVERTOR. PROVIDE OSP CAT 6 CABLE FROM MEDIA CONVERTOR TO CAMERA IN THIS LOCATION.

1 ELECTRICAL SITE PLAN
1" = 20'-0"

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Project Phase
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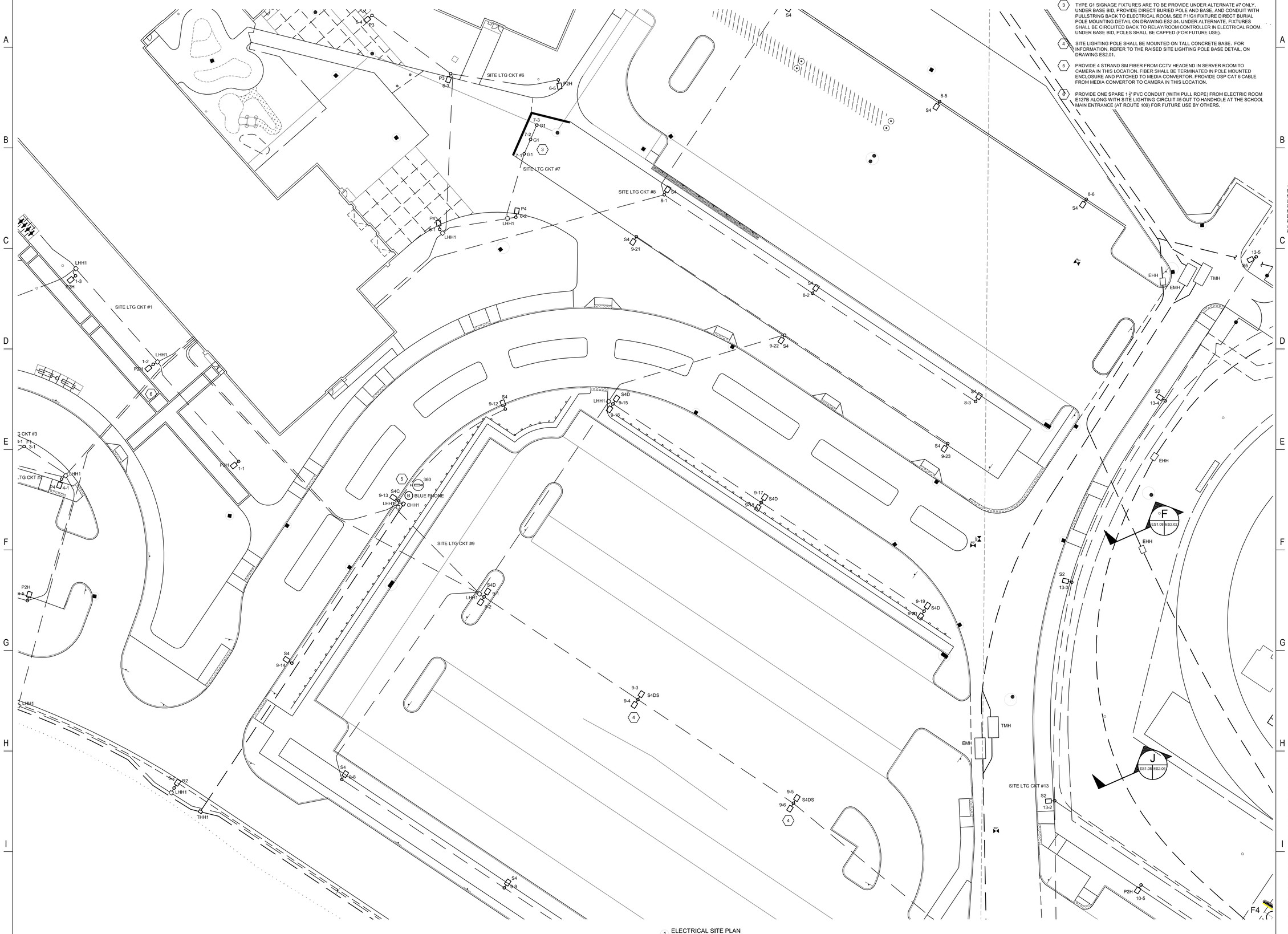
2. REFER TO GENERAL NOTES, ELECTRICAL TRADE NOTES, LEGEND AND ABBREVIATIONS ON DRAWING E0.01.
3. TYPE G1 SIGNAGE FIXTURES ARE TO BE PROVIDE UNDER ALTERNATE #7 ONLY. UNDER BASE BID, PROVIDE DIRECT BURIED POLE AND BASE, AND CONDUIT WITH PULLSTRING BACK TO ELECTRICAL ROOM. SEE F1/G1 FIXTURE DIRECT BURIAL POLE MOUNTING DETAIL ON DRAWING ES2.04. UNDER ALTERNATE, FIXTURES SHALL BE CIRCUITED BACK TO RELAY/ROOM CONTROLLER IN ELECTRICAL ROOM. UNDER BASE BID, POLES SHALL BE CAPPED (FOR FUTURE USE).
4. SITE LIGHTING POLE SHALL BE MOUNTED ON TALL CONCRETE BASE. FOR INFORMATION, REFER TO THE RAISED SITE LIGHTING POLE BASE DETAIL, ON DRAWING ES2.01.
5. PROVIDE 4 STRAND SM FIBER FROM CCTV HEADEND IN SERVER ROOM TO CAMERA IN THIS LOCATION. FIBER SHALL BE TERMINATED IN POLE MOUNTED ENCLOSURE AND PATCHED TO MEDIA CONVERTOR. PROVIDE OSP CAT 6 CABLE FROM MEDIA CONVERTOR TO CAMERA IN THIS LOCATION.
6. PROVIDE ONE SPARE 1 $\frac{1}{2}$" PVC CONDUIT (WITH PULL ROPE) FROM ELECTRIC ROOM E127B ALONG WITH SITE LIGHTING CIRCUIT #5 OUT TO HANDHOLE AT THE SCHOOL MAIN ENTRANCE (AT ROUTE 109) FOR FUTURE USE BY OTHERS.



1 ELECTRICAL SITE PLAN
1" = 20'-0"

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SANFORD HIGH SCHOOL and TECHNICAL CENTER

SANFORD, ME 04073

NO.	DESCRIPTION	DATE

FOR ADDITIONAL INFORMATION, REFER TO PROJECT MANUAL.

CONTENT: ELECTRICAL SITE PLAN

DRAWN BY:	C. NEWELL
PROJECT NO:	12-067-00
DATE:	02/11/2016
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SCALE:	AS NOTED

ES1.08

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1 ELECTRICAL SITE PLAN
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DRAWING NOTES

1 THE FOLLOWING NOTES ONLY APPLY TO THIS DRAWING.

2 REFER TO GENERAL NOTES, ELECTRICAL TRADE NOTES, LEGEND AND ABBREVIATIONS ON DRAWING E0.01.

3 CONTRACTOR SHALL COORDINATE WITH THE LOCAL ELECTRIC UTILITY FOR THE INSTALLATION OF TWO UTILITY-OWNED PAD-MOUNTED TRANSFORMERS.

4 CONTRACTOR SHALL PROVIDE SECONDARY CONDUITS AND CONDUCTORS FOR ELECTRICAL SERVICES TO THE BUILDING.

5 CONTRACTOR SHALL COORDINATE WITH THE LOCAL CABLE TV AND TELEPHONE UTILITIES FOR SERVICE TO THE BUILDING.

6 CONTRACTOR SHALL PROVIDE STANDBY GENERATOR WITH BACK-UP POWER TO THE BUILDING.

7 CONTRACTOR SHALL PROVIDE GENERATOR LOAD BANK FOR CONNECTION TO THE GENERATOR.

8 CONTRACTOR SHALL PROVIDE DELTA GROUND GRID FOR MAIN SWITCHBOARDS. FOR FURTHER INFORMATION, REFER TO GROUNDING DETAIL ON DRAWING E0.06.

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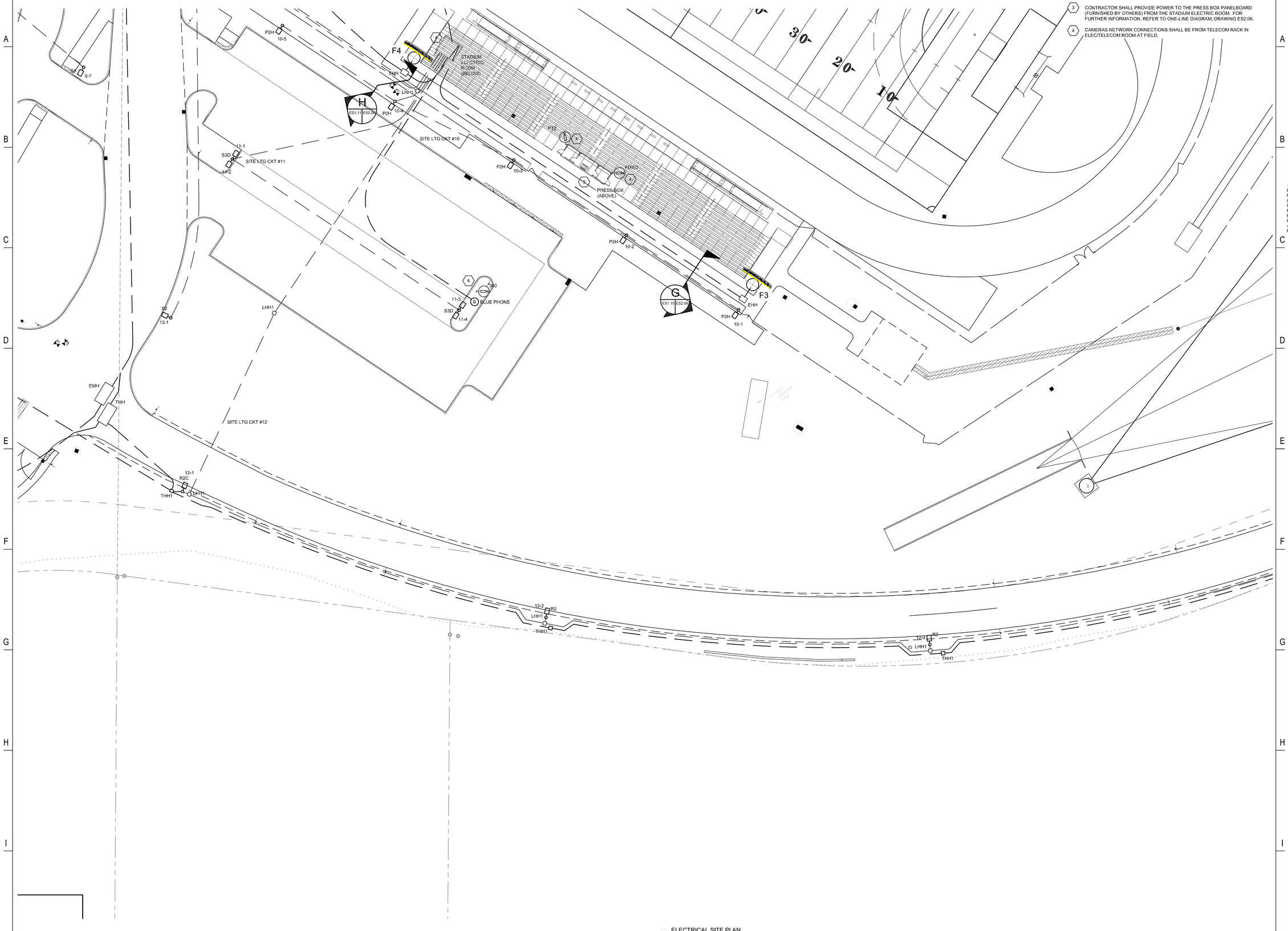
2. REFER TO GENERAL NOTES, ELECTRICAL TRADE NOTES, LEGEND AND ABBREVIATIONS ON DRAWING E0.01.
3. CONTRACTOR SHALL PROVIDE POWER TO THE PRESS BOX PANELBOARD (FURNISHED BY OTHERS) FROM THE STADIUM ELECTRIC ROOM. FOR FURTHER INFORMATION, REFER TO ONE-LINE DIAGRAM, DRAWING ES2.06.
4. CAMERAS NETWORK CONNECTIONS SHALL BE FROM TELECOM RACK IN ELEC/TELECOM ROOM AT FIELD.



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ES1.10

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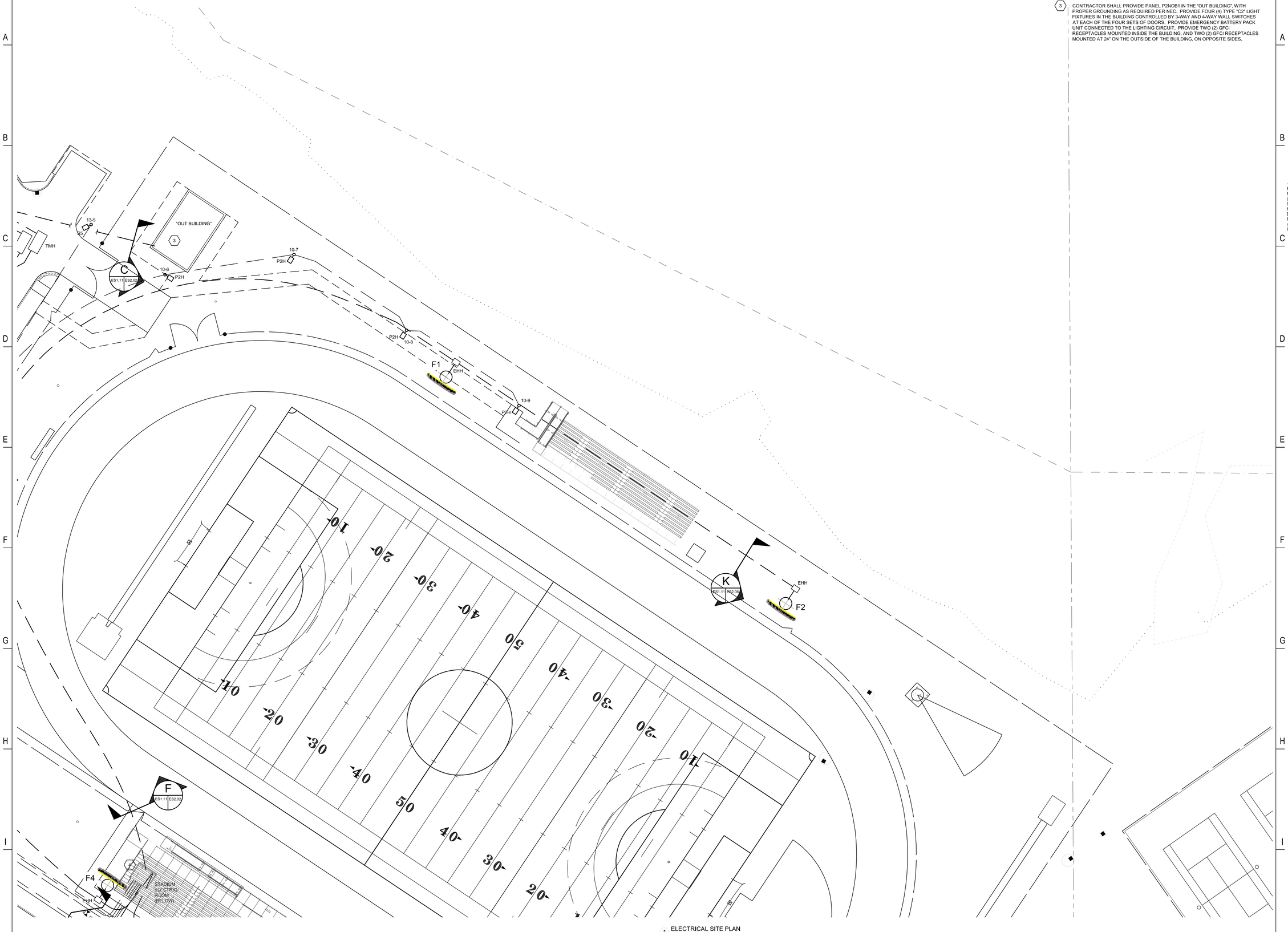

1 ELECTRICAL SITE PLAN
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2 REFER TO GENERAL NOTES, ELECTRICAL TRADE NOTES, LEGEND AND ABBREVIATIONS ON DRAWING E0.01.

3 CONTRACTOR SHALL PROVIDE PANEL P2NOB1 IN THE "OUT BUILDING", WITH PROPER GROUNDING AS REQUIRED PER NEC. PROVIDE FOUR (4) TYPE "C2" LIGHT FIXTURES IN THE BUILDING CONTROLLED BY 3-WAY AND 4-WAY WALL SWITCHES AT EACH OF THE FOUR SETS OF DOORS. PROVIDE EMERGENCY BATTERY PACK UNIT CONNECTED TO THE LIGHTING CIRCUIT. PROVIDE TWO (2) GFCI RECEPTACLES MOUNTED INSIDE THE BUILDING, AND TWO (2) GFCI RECEPTACLES MOUNTED AT 24" ON THE OUTSIDE OF THE BUILDING, ON OPPOSITE SIDES.

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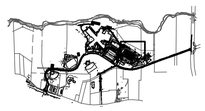

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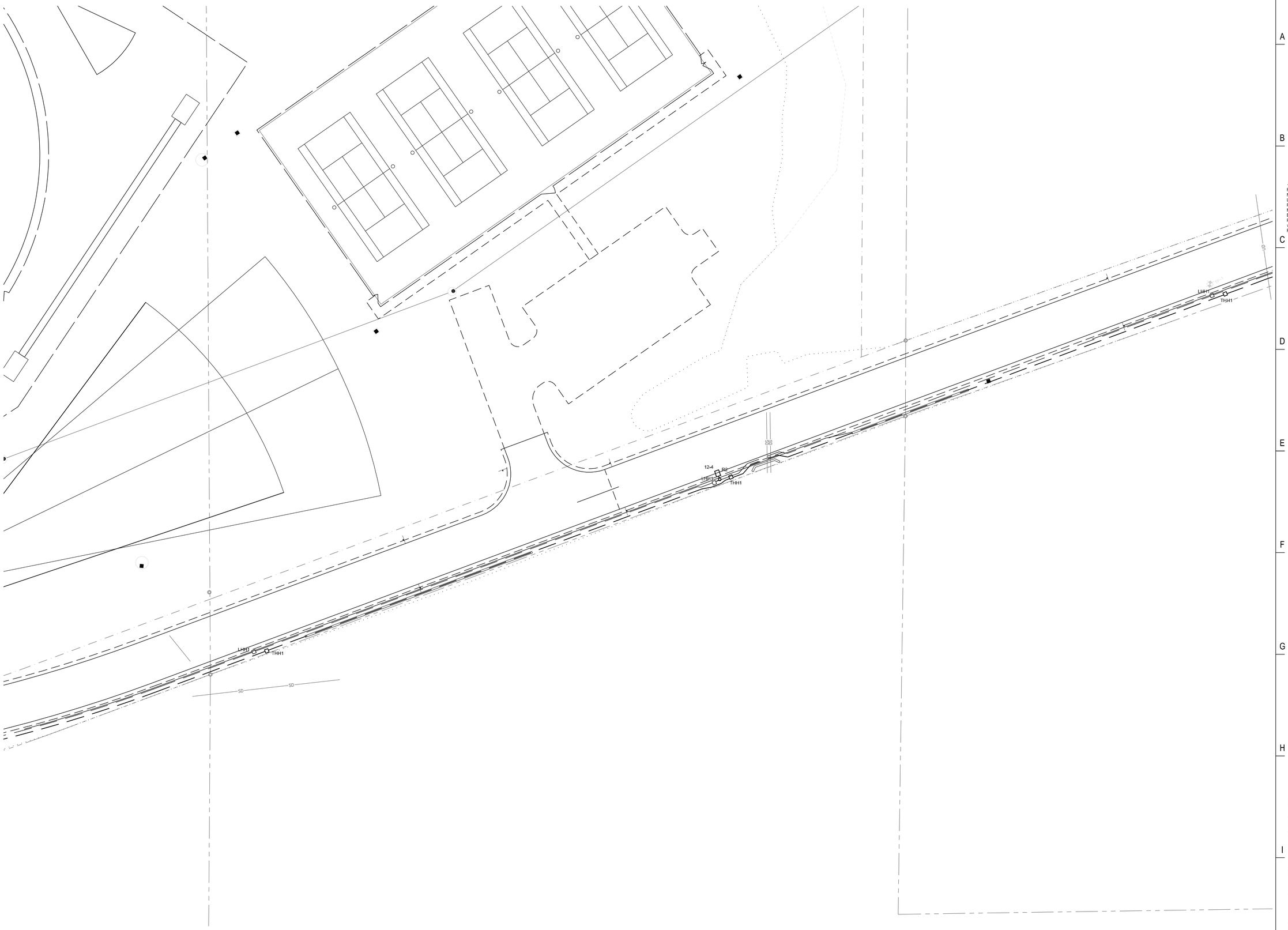

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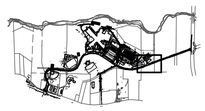

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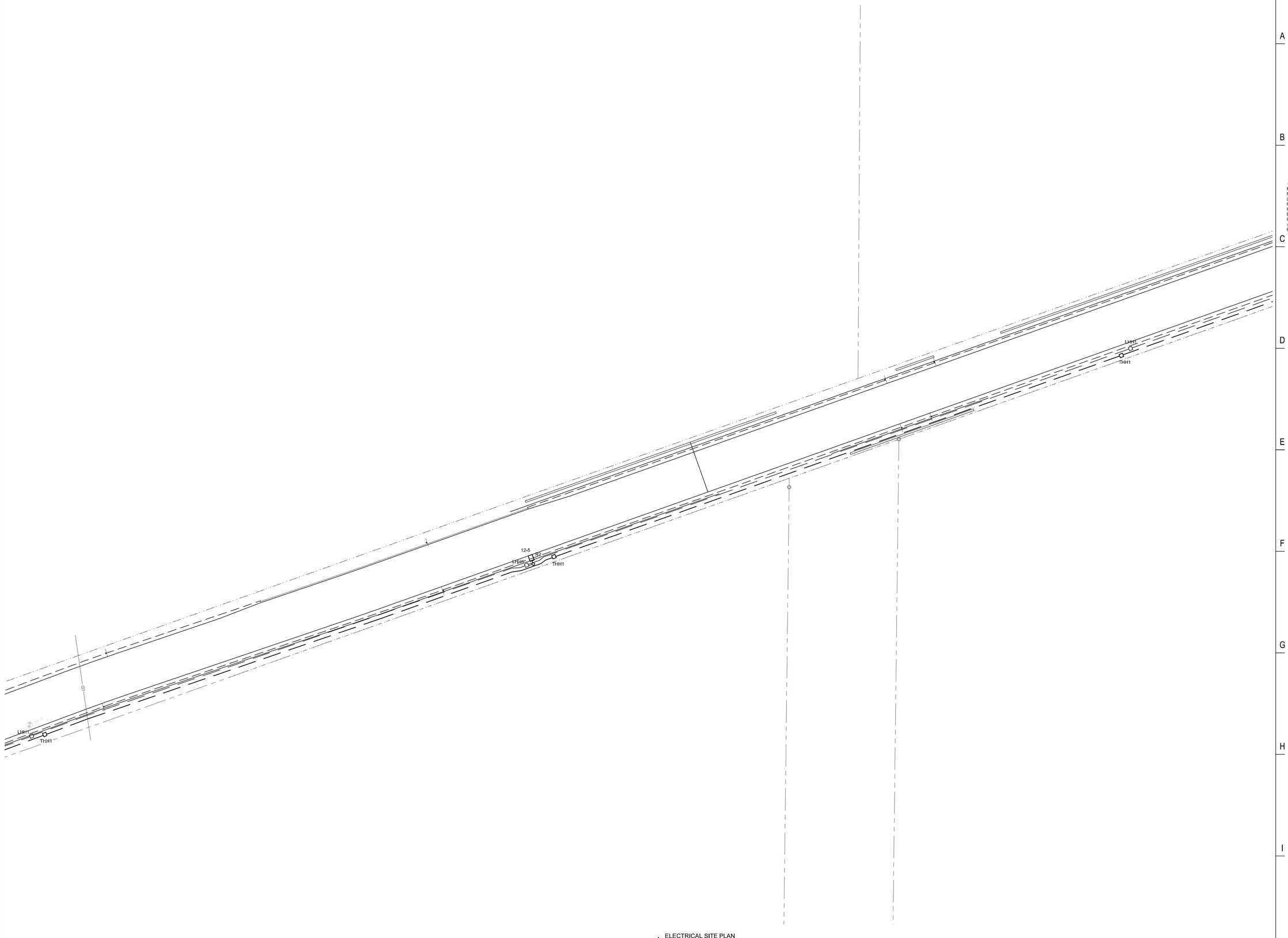

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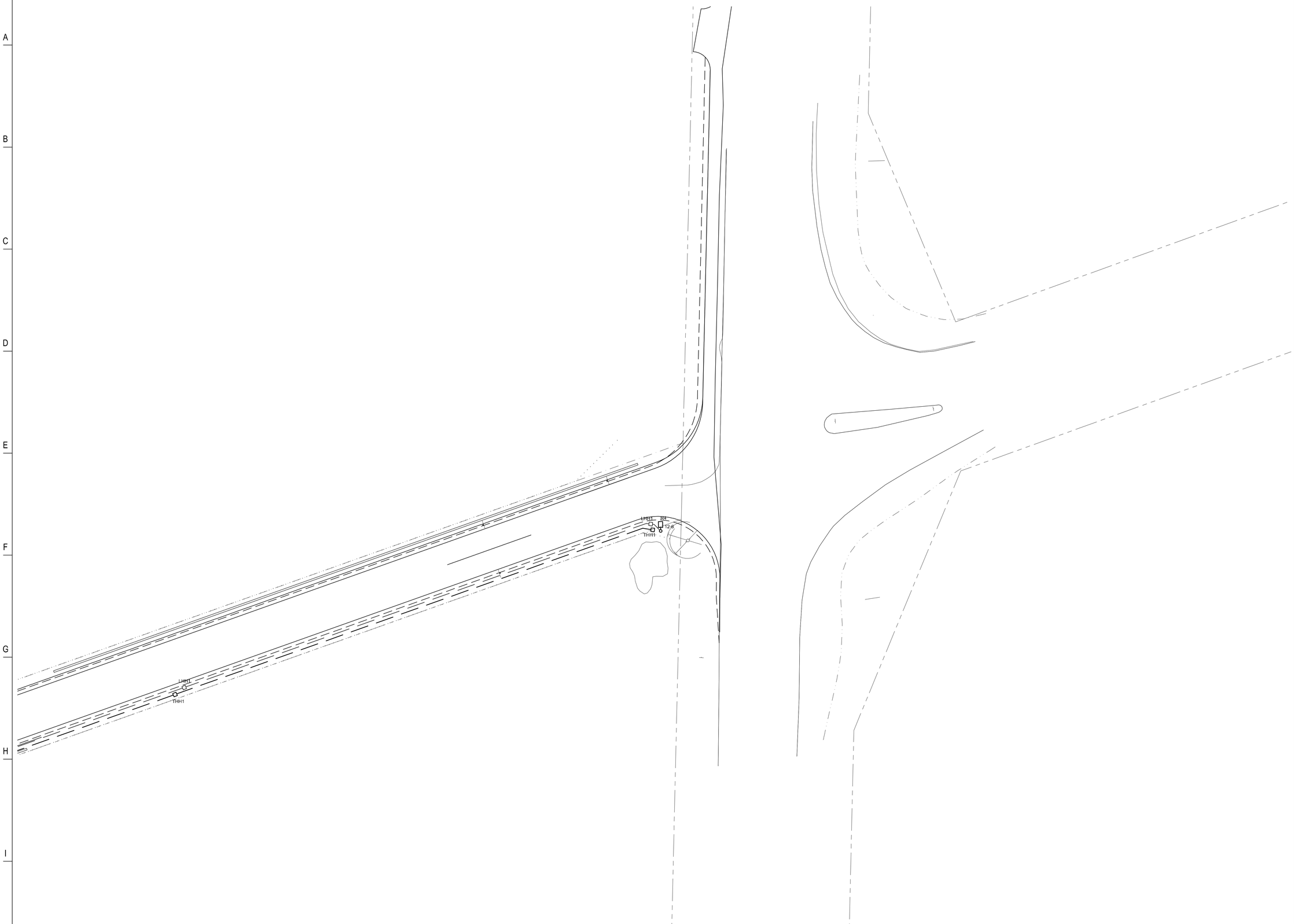

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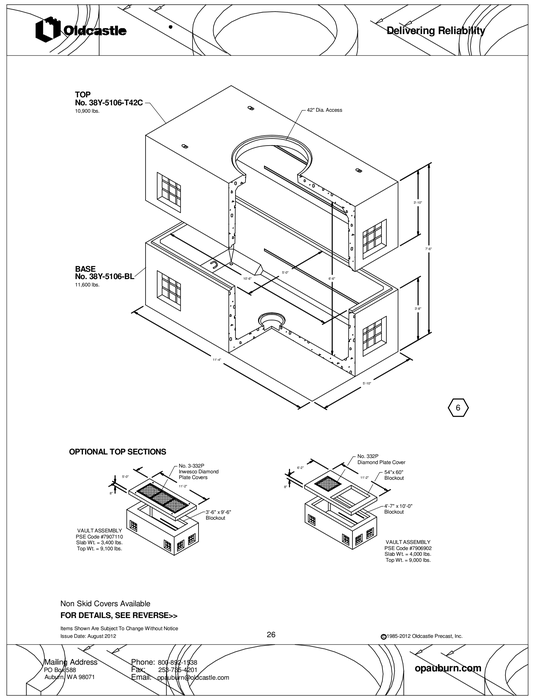
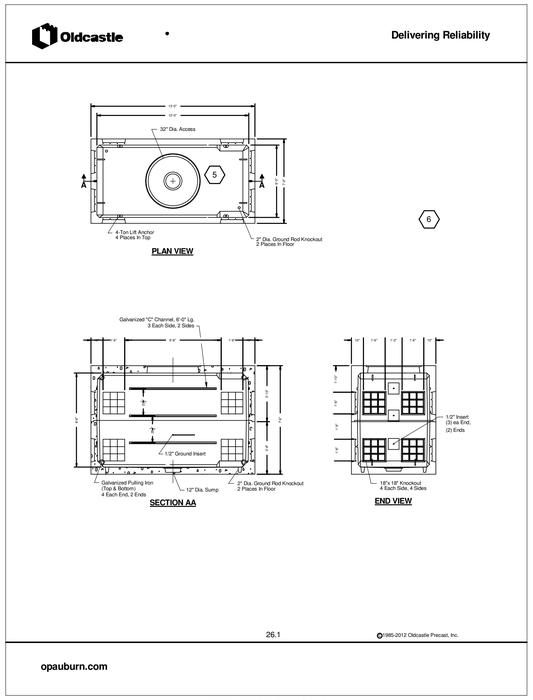




(TYPICAL FOR "EMH" AND "TMH")

DRAWING NOTES

1. THE FOLLOWING NOTES ONLY APPLY TO THIS DRAWING.
2. REFER TO GENERAL NOTES, ELECTRICAL TRADE NOTES, LEGEND AND ABBREVIATIONS ON DRAWING E0.01.
3. PAD SHALL BE CONSTRUCTED TO EXTEND 6" BEYOND THE GENERATOR (AND LOAD BANK) ENCLOSURE IN ALL DIRECTIONS. COORDINATE EXACT STUB-UP LOCATION(S) OF CONDUITS WITH EQUIPMENT CIRCUIT BREAKER AND CONNECTION LOCATIONS PRIOR TO INSTALLATION.
4. ADDITIONAL CONDUITS REQUIRED FOR POLES WITH CAMERAS AND WAPS. FOR CONDUIT INFORMATION, REFER TO POLE DETAIL(S) ON SITE DRAWINGS.
5. COVER FOR ELECTRIC SHALL BE CAST INDICATING "CMP CO."
6. FOR EXACT UTILITY REQUIREMENTS ON MANHOLES, REFER TO UTILITY STANDARDS HANDBOOK.

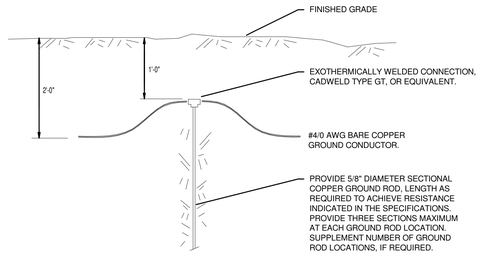
CONDUIT & CONDUCTOR SCHEDULE

CONDUIT	SIZE	TYPE	CABLE SIZE	CONDUIT USE DESCRIPTION
P1	5"	PVC	PULL ROPE	UTILITY SITE PRIMARY CABLES - BY OTHERS
P2	4"	PVC	4#600KCMIL	TRANSFORMER SECONDARY CONDUCTORS
P3	4"	PVC	4#350KCMIL&1#2/0G	GENERATOR STANDBY POWER FEEDERS
P4	4"	PVC	4#350KCMIL&1#4G	GENERATOR LIFE-SAFETY POWER FEEDERS
P5	4"	PVC	4#600KCMIL&1#1/0G	STADIUM ELECTRIC ROOM FEEDERS
P6	3"	PVC	3#2&1#8G (600V) 3#8&1#8G (600V)	LIGHTING CIRCUITS TO FIELD POLE F3
P7	3"	PVC	3#2&1#8G (600V) 3#8&1#8G (600V)	LIGHTING CIRCUITS TO FIELD POLE F4
P8	3"	PVC	3#4&1#8G (600V) 3#8&1#8G (600V)	LIGHTING CIRCUITS TO FIELD POLE F2
P9	3"	PVC	3#4&1#8G (600V) 3#8&1#8G (600V)	LIGHTING CIRCUITS TO FIELD POLE F1
P10	2"	PVC	16#8AWG	GENERATOR ACCESSORIES POWER CONDUCTORS
P11	2 1/2"	PVC	4#1&1#6G	OUT BUILDING POWER FEEDERS
P12	3"	PVC	3#500KCMIL&1#3G	LOAD BANK POWER FEEDERS
G1	2"	PVC	PER MANUFACTURER	GENERATOR ANNUNCIATOR CABLE
T1	4"	PVC	PULL ROPE	UTILITY TELEPHONE, CABLE, ETC. - BY OTHERS
SP3	3"	PVC	PULL ROPE	SPARE POWER
SP4	4"	PVC	PULL ROPE	SPARE POWER
SP5	5"	PVC	PULL ROPE	SPARE POWER

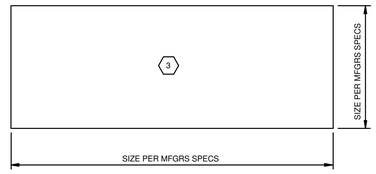
CONDUIT SPACING WHEN USING SPACERS

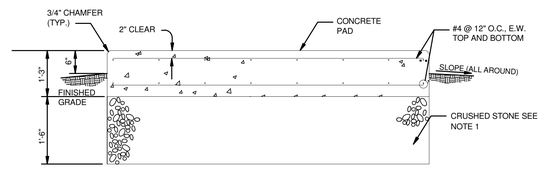
CONDUIT SIZE	CONDUIT SIZE O.D.	STANDARD CONDUIT SEPARATIONS ℄ TO ℄
4"	4.50"	HOR. 7 1/2"
		VERT. 7 1/2"
		* E.O.C. 5 1/4"
5"	5.50"	HOR. 8 9/16"
		VERT. 8 9/16"
		* E.O.C. 5 3/4"
6"	6.625"	HOR. 9 5/8"
		VERT. 9 5/8"
		* E.O.C. 6 5/16"

* DENOTES ℄ OF CONDUIT TO EDGE OF CONCRETE



1 TYPICAL GROUND ROD INSTALLATION
NOT TO SCALE



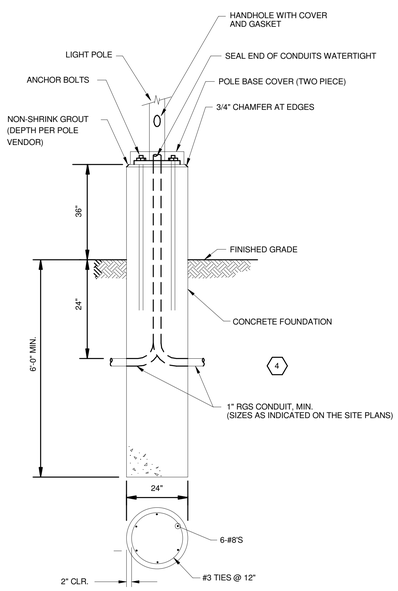


NOTES:

1. CRUSHED STONE GRADATION SHALL BE IN ACCORDANCE WITH DPW SPECIFICATIONS.
2. ANCHOR EQUIPMENT PER MFGR. SPECS.

2 TYPICALGENERATOR EQUIPMENT PAD
NOT TO SCALE

(TYPICAL FOR LOAD BANK EQUIPMENT)



COORDINATE EXACT SIZE AND CONFIGURATION WITH LIGHTING FIXTURE MANUFACTURER.

3 RAISED SITE LIGHTING POLE BASE DETAIL
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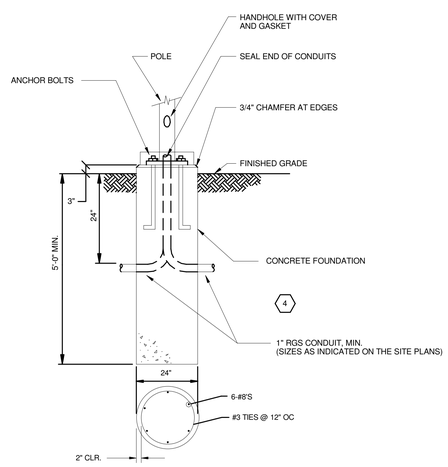
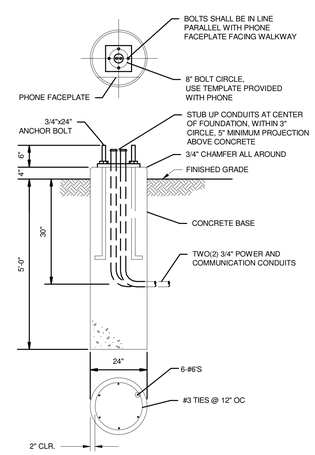
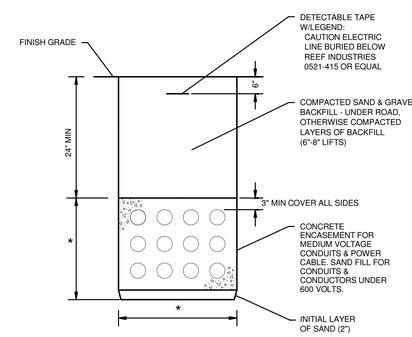


COORDINATE EXACT SIZE AND CONFIGURATION WITH LIGHTING FIXTURE MANUFACTURER.

4 SITE LIGHTING POLE BASE DETAIL
NOT TO SCALE



5 SECURITY PHONE FOUNDATION DETAIL
NOT TO SCALE



* VARIES, SEE CONDUIT DUCT BANK SECTIONS

6 TYPICAL TRENCH SECTION
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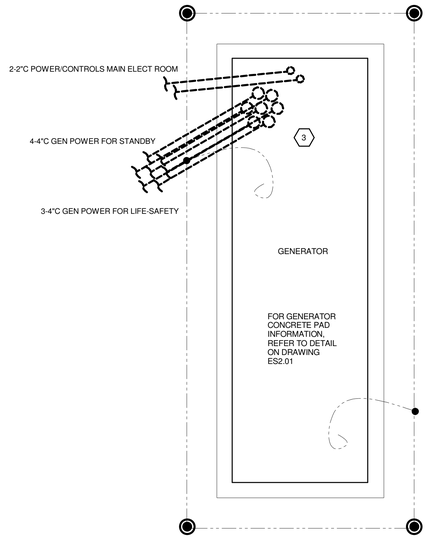
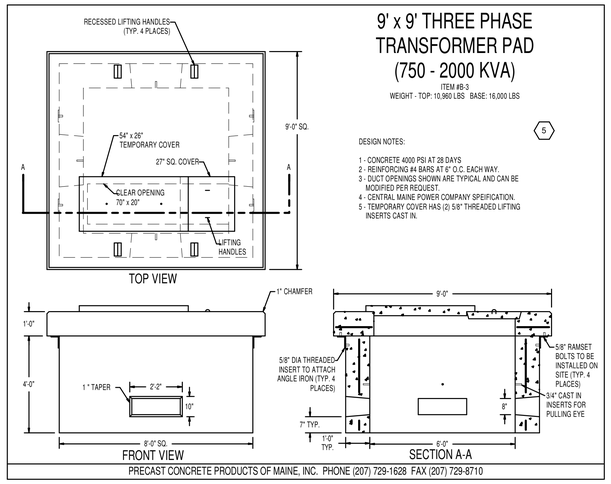


1 GENERATOR PAD GROUNDING DETAIL
NOT TO SCALE



DRAWING NOTES

1 THE FOLLOWING NOTES ONLY APPLY TO THIS DRAWING.

2 REFER TO GENERAL NOTES, ELECTRICAL TRADE NOTES, LEGEND AND ABBREVIATIONS ON DRAWING E0.01.

3 CONTRACTOR SHALL COORDINATE EXACT CONDUIT STUB-UP QUANTITIES AND LOCATIONS WITH THE GENERATOR MANUFACTURER AND THE EQUIPMENT BEING PROVIDED.

4 CONDUIT SHALL ENTER THROUGH THE FOUNDATION LEVEL, AND SQUARE TO THE PENETRATION.

5 COVER FOR THE ELECTRIC SHALL BE CAST INDICATING "CMP CO." CONTRACTOR SHALL PROVIDE GROUNDING AROUND THE TRANSFORMER PAD(S) CONSISTING OF A #4/0 AWG BARE COPPER RING WITH SECTIONAL GROUND RODS (MINIMUM) TO ACHIEVE REQUIRED READINGS. ALL GROUNDING REQUIREMENTS SHALL BE TO CENTRAL MAINE POWER STANDARDS.

TRENCHING NOTES

1 CONTRACTOR SHALL USE EXTREME CAUTION WHEN TRENCHING. DIGGING TEST PITS ARE REQUIRED AT EVERY UTILITY CROSSING. THE MOST CRITICAL AREAS ARE INDICATED ON THE DRAWINGS. FAILURE TO PERFORM TEST PITS MAY RESULT IN UNNECESSARY DELAYS AND CONFLICTS FOR WHICH THE CONTRACTOR MAY BE HELD RESPONSIBLE.

2 TEST PITS SHALL BE COORDINATED WITH THE ENGINEER, AND ALL SHALL INCLUDE INFORMATION AS TO SIZE AND CONFIGURATION OF PIPES FOUND AS WELL AS INVERT ELEVATIONS.

3 TRENCH BOTTOM SHALL BE UNDISTURBED, FIRM, AND UNIFORM FOR ITS ENTIRE LENGTH.

4 KEEP THE TRENCH WIDTH AS NARROW AS POSSIBLE. THE SIDES OF THE CONCRETE DUCTBANKS SHALL BE FORMED VERTICAL OR SLIGHTLY INWARD TO MINIMIZE POTENTIAL FOR FROST HEAVING.

5 PLACE 2" LAYER OF SAND IN BOTTOM OF TRENCH AS BASE FOR CONCRETE PLACEMENT.

6 WHEN FINAL BACKFILLING IS PERFORMED, UTILIZE EXCAVATED MATERIAL. REMOVE ALL LARGE ROCKS, FOREIGN MATERIALS, ETC. TO AVOID DAMAGE TO CONDUITS.

7 ALL UNDERGROUND CONDUITS SHALL BE RIGID PVC SCHEDULE 40, BURIED IN SAND, UNLESS OTHERWISE INDICATED ON DRAWINGS. PROVIDE CONDUITS SIZE IN ACCORDANCE WITH THE CONDUIT SCHEDULE. ALL VERTICAL CONDUIT SWEEPS SHALL BE ASPHALTUM-COATED RIGID GALVANIZED STEEL (RGS). AT POLES, RGS SHALL EXTEND A MINIMUM OF 10' UP POLE BEFORE CHANGING TO SCHEDULE 40 PVC.

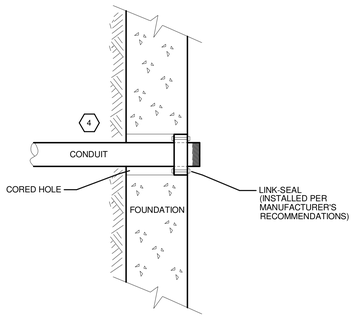
8 SEAL ALL CONDUIT JOINTS AND AROUND EACH CONDUIT AT WALL PENETRATIONS.

9 ALL DUCTS SHALL BE CAPPED DURING CONCRETE POURING AND LEFT CAPPED UNTIL CABLE PULLING BEGINS.

10 ALL CONDUIT SHALL BE SLOPED @ 3"/100' MINIMUM TO DRAIN.

11 INDICATED DIMENSIONS FOR THE SPACING OF CONDUIT IN THE DUCT BANKS ARE MINIMUMS. INSTALL RIGID PLASTIC SPACERS AT INTERVALS OF 10'-0" OR LESS FOR DUCTBANKS ENCASED IN CONCRETE.

12 PROVIDE A MINIMUM OF 12" SEPARATION BETWEEN MEDIUM VOLTAGE CONDUITS AND TELECOMMUNICATIONS CONDUITS.



2 CONDUIT PENETRATING FOUNDATION DETAIL
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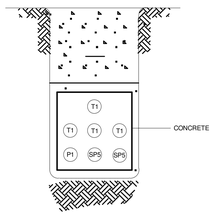
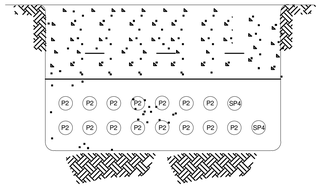


TRENCH DETAIL A
NOT TO SCALE
ES1.06 | ES2.02



TRENCH DETAIL B
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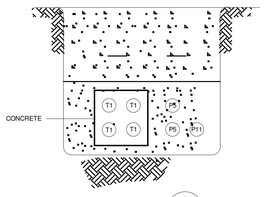
ES1.06 | ES2.02

TRENCH DETAIL C
NOT TO SCALE
ES1.06 | ES2.02



TRENCH DETAIL D
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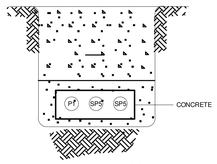
ES1.06 | ES2.02



TRENCH DETAIL E
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ES1.06 | ES2.02

TRENCH DETAIL F
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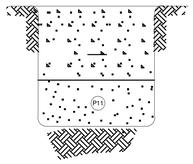
ES1.11 | ES2.02



TRENCH DETAIL G
NOT TO SCALE
ES1.11 | ES2.02

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Sanford School Department and State of Maine Department of Education

SANFORD HIGH SCHOOL and TECHNICAL CENTER

SANFORD, ME 04073

NO.	DESCRIPTION	DATE

CONTENT:
ELECTRICAL SITE DETAILS

DRAWN BY:	C. NEWELL
PROJECT NO:	12-067-00
DATE:	02/11/2016
REVISED:	
SCALE:	AS NOTED

ES2.02

Project Phase
BID DOCUMENTS

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FOR ADDITIONAL INFORMATION, REFER TO PROJECT MANUAL.

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DRAWING NOTES

1 THE FOLLOWING NOTES ONLY APPLY TO THIS DRAWING.

2 REFER TO GENERAL NOTES, ELECTRICAL TRADE NOTES, LEGEND AND ABBREVIATIONS ON DRAWING E0.01.

(3) FOR SITE LIGHTING LOCATIONS, SEE SITE PLANS, DRAWINGS ES1.01 THROUGH ES1.14.

SITE LIGHTING FIXTURE SCHEDULE

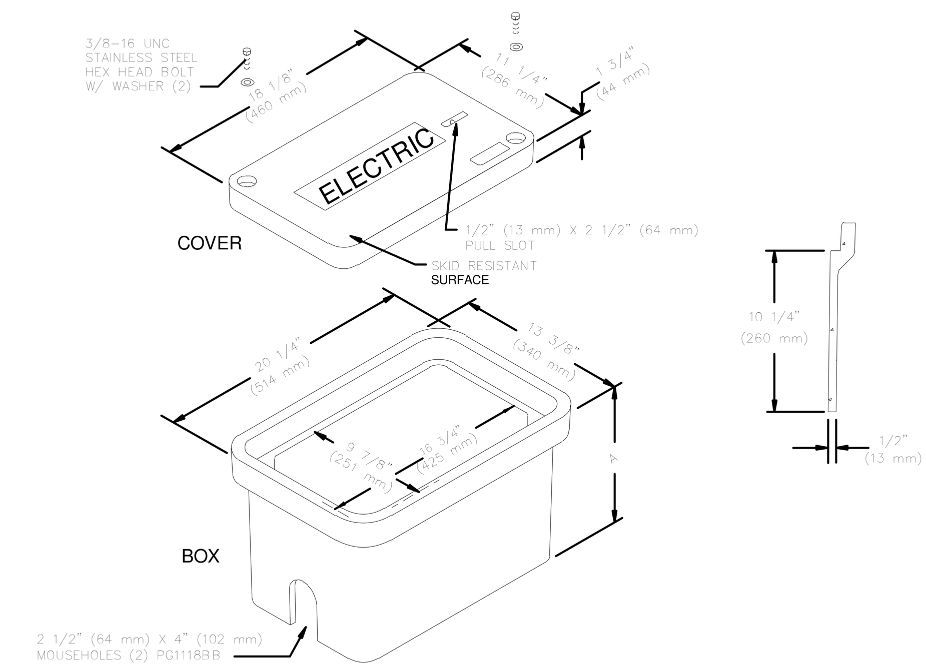
TYPE	DESCRIPTION	MANUFACTURER	LAMPS QTY.	LAMPS TYPE	VOLT.	WATTS/ FIXT.	REMARKS	EQUIVALENT BY
F1	10" LED FLOODLIGHT - FLAGPOLE WITH NARROW OPTICS	[RAB LIGHTING] #EZLED-78-SF-N	1	78W 4630 LUMEN 4000K LED	277	89	DIECAST ALUMINUM HOUSING AND DOOR, UL WET LOCATION, SUITABLE FOR GROUND MOUNTING, IP66, TEMPERED GLASS LENS, GASKETING, 4000K, 82 CRI, L70 = 100,000 HOURS, MULTI-VOLTAGE DRIVER, (0-10V) DIMMING, NEMA 3H x 3V OPTICS, BRONZE FINISH, 2 3/8" SLIPFITTER MOUNT WITH STAINLESS STEEL HARDWARE, SEE DIRECT BURIAL MOUNTING DETAIL ON DRAWINGS FOR FURTHER INFORMATION.	
G1	IN-GROUND LED - SIGNAGE (ALTERNATE #7 ONLY)	[LITHONIA] #DSXF1-LED-1-A530/40K-MSP-MVOLT-IS-DNAXD	1	19W 1923 LUMEN 4000K LED	MVOLT	19	DIECAST ALUMINUM HOUSING, INTEGRAL HEAT SINK, IP65, 4000K, CRI 70+, DLC QUALIFIED, MEDIUM SPOT DISTRIBUTION OPTICS, MULTI-VOLTAGE DRIVER, INTEGRAL SLIPFITTER MOUNTING, NATURAL ALUMINUM FINISH, SEE DIRECT BURIAL MOUNTING DETAIL ON DRAWINGS FOR FURTHER INFORMATION.	PHILIPS, McGRAW-EDISON
P2H	12' LED PATHWAY LUMINARE WITH HOUSE SIDE SHIELD	[LITHONIA] #DSX1-LED-30C-530-40K-T2M-MVOLT-SPA-HS-DNAXD (FIXTURE) #SSA-12-4C-DM19AS-FBC-DNA (POLE)	1	53W 4306 LUMEN 4000K LED	MVOLT	53	DIECAST ALUMINUM HOUSING, INTEGRAL HEAT SINK, IP65, PRECISION MOLDED ACRYLIC LENS, 4000K CRI, 70+, NIGHTTIME FRIENDLY QUALIFIED, DLC QUALIFIED, TYPE 2 DISTRIBUTION, 530mA ON/OFF DRIVER, NATURAL ALUMINUM FINISH, 12'-0" SQUARE STRAIGHT ALUMINUM POLE, DRILL MOUNTING FOR 1 AT 90-DEGREES, FULL BASE COVER, HOUSE SIDE SHIELD, NATURAL ALUMINUM FINISH	PHILIPS McGRAW-EDISON
P3	12' LED PATHWAY LUMINAIRE	[LITHONIA] #DSX1-LED-30C-530-40K-T3M-MVOLT-SPA-DNAXD (FIXTURE) #SSA-12-4C-DM19AS-FBC-DNA (POLE)	1	53W 5862 LUMEN 4000K LED	MVOLT	53	DIECAST ALUMINUM HOUSING, INTEGRAL HEAT SINK, IP65, PRECISION MOLDED ACRYLIC LENS, 4000K CRI, 70+, NIGHTTIME FRIENDLY QUALIFIED, DLC QUALIFIED, TYPE 3 DISTRIBUTION, 530mA ON/OFF DRIVER, NATURAL ALUMINUM FINISH, 12'-0" SQUARE STRAIGHT ALUMINUM POLE, DRILL MOUNTING FOR 1 AT 90-DEGREES, FULL BASE COVER, NATURAL ALUMINUM FINISH	PHILIPS McGRAW-EDISON
P4	12' LED PATHWAY LUMINARE	[LITHONIA] #DSX1-LED-30C-530-40K-T4M-MVOLT-SPA-DNAXD (FIXTURE) #SSA-12-4C-DM19AS-FBC-DNA (POLE)	1	53W 5872 LUMEN 4000K LED	MVOLT	53	DIECAST ALUMINUM HOUSING, INTEGRAL HEAT SINK, IP65, PRECISION MOLDED ACRYLIC LENS, 4000K CRI, 70+, NIGHTTIME FRIENDLY QUALIFIED, DLC QUALIFIED, TYPE 4 DISTRIBUTION, 530mA ON/OFF DRIVER, NATURAL ALUMINUM FINISH, 12'-0" SQUARE STRAIGHT ALUMINUM POLE, DRILL MOUNTING FOR 1 AT 90-DEGREES, FULL BASE COVER, NATURAL ALUMINUM FINISH	PHILIPS McGRAW-EDISON
P5	12' LED PATHWAY LUMINAIRE	[LITHONIA] #DSX1-LED-30C-530-40K-T5M-MVOLT-SPA-DNAXD (FIXTURE) #SSA-12-4C-DM19AS-FBC-DNA (POLE)	1	53W 6139 LUMEN 4000K LED	MVOLT	53	DIECAST ALUMINUM HOUSING, INTEGRAL HEAT SINK, IP65, PRECISION MOLDED ACRYLIC LENS, 4000K CRI, 70+, NIGHTTIME FRIENDLY QUALIFIED, DLC QUALIFIED, TYPE 5 DISTRIBUTION, 530mA ON/OFF DRIVER, NATURAL ALUMINUM FINISH, 12'-0" SQUARE STRAIGHT ALUMINUM POLE, DRILL MOUNTING FOR 1 AT 90-DEGREES, FULL BASE COVER, NATURAL ALUMINUM FINISH	PHILIPS McGRAW-EDISON
S2	25' LED PARKING LUMINAIRE	[LITHONIA] #DSX1-LED-40C-530-40K-T2M-MVOLT-SPA-DNAXD (FIXTURE) #SSA-25-6J-DM19AS-FBC-DNA (POLE)	1	68W 11188 LUMENS 4000K LED	MVOLT	68	DIECAST ALUMINUM HOUSING, INTEGRAL HEAT SINK, IP65, PRECISION MOLDED ACRYLIC LENS, 4000K CRI, 70+, NIGHTTIME FRIENDLY QUALIFIED, DLC QUALIFIED, TYPE 2 DISTRIBUTION, 530mA ON/OFF DRIVER, NATURAL ALUMINUM FINISH, 25'-0" SQUARE STRAIGHT ALUMINUM POLE, DRILL MOUNTING FOR 1 AT 90-DEGREES, FULL BASE COVER, NATURAL ALUMINUM FINISH	PHILIPS McGRAW-EDISON
S3	25' LED PARKING LUMINAIRE	[LITHONIA] #DSX1-LED-40C-530-40K-T3M-MVOLT-SPA-DNAXD (FIXTURE) #SSA-25-6J-DM19AS-FBC-DNA (POLE)	1	68W 11380 LUMEN 4000K LED	MVOLT	68	DIECAST ALUMINUM HOUSING, INTEGRAL HEAT SINK, IP65, PRECISION MOLDED ACRYLIC LENS, 4000K CRI, 70+, NIGHTTIME FRIENDLY QUALIFIED, DLC QUALIFIED, TYPE 3 DISTRIBUTION, 530mA ON/OFF DRIVER, NATURAL ALUMINUM FINISH, 25'-0" SQUARE STRAIGHT ALUMINUM POLE, DRILL MOUNTING FOR 1 AT 90-DEGREES, FULL BASE COVER, NATURAL ALUMINUM FINISH	PHILIPS McGRAW-EDISON
S3D	25' TWIN LED PARKING LUMINAIRE	[LITHONIA] #DSX1-LED-40C-530-40K-T3M-MVOLT-SPA-DNAXD (FIXTURE) #DSX1-LED-40C-530-40K-T3M-MVOLT-SPA-DNAXD (FIXTURE) #SSA-25-6J-DM28AS-FBC-DNA (POLE)	2	68W 11380 LUMEN 4000K LED	MVOLT	136	DIECAST ALUMINUM HOUSING, INTEGRAL HEAT SINK, IP65, PRECISION MOLDED ACRYLIC LENS, 4000K CRI, 70+, NIGHTTIME FRIENDLY QUALIFIED, DLC QUALIFIED, TYPE 3 DISTRIBUTION, 530mA ON/OFF DRIVER, NATURAL ALUMINUM FINISH, 25'-0" SQUARE STRAIGHT ALUMINUM POLE, DRILL MOUNTING FOR 2 AT 180-DEGREES, FULL BASE COVER, NATURAL ALUMINUM FINISH	PHILIPS McGRAW-EDISON
S4	25' LED PARKING LUMINAIRE	[LITHONIA] #DSX1-LED-40C-530-40K-T4M-MVOLT-SPA-DNAXD (FIXTURE) #SSA-25-6J-DM19AS-FBC-DNA (POLE)	1	68W 11400 LUMEN 4000K LED	MVOLT	68	DIECAST ALUMINUM HOUSING, INTEGRAL HEAT SINK, IP65, PRECISION MOLDED ACRYLIC LENS, 4000K CRI, 70+, NIGHTTIME FRIENDLY QUALIFIED, DLC QUALIFIED, TYPE 4 DISTRIBUTION, 530mA ON/OFF DRIVER, NATURAL ALUMINUM FINISH, 25'-0" SQUARE STRAIGHT ALUMINUM POLE, DRILL MOUNTING FOR 1 AT 90-DEGREES, FULL BASE COVER, NATURAL ALUMINUM FINISH	PHILIPS McGRAW-EDISON
S4C	25' LED PARKING LUMINAIRE WITH COUPLINGS FOR CAMERA MOUNTING	[LITHONIA] #DSX1-LED-40C-530-40K-T4M-MVOLT-SPA-DNAXD (FIXTURE) #SSA-25-6J-DM19AS-FBC-CPL12A-CPL118C-DNA (POLE)	1	68W 11400 LUMEN 4000K LED	MVOLT	68	DIECAST ALUMINUM HOUSING, INTEGRAL HEAT SINK, IP65, PRECISION MOLDED ACRYLIC LENS, 4000K CRI, 70+, NIGHTTIME FRIENDLY QUALIFIED, DLC QUALIFIED, TYPE 4 DISTRIBUTION, 530mA ON/OFF DRIVER, NATURAL ALUMINUM FINISH, 25'-0" SQUARE STRAIGHT ALUMINUM POLE, DRILL MOUNTING FOR 1 AT 90-DEGREES, FULL BASE COVER, NATURAL ALUMINUM FINISH, 1" COUPLING AT 2'-0" ABOVE BASE LOCATED OPPOSITE FIXTURE HEAD ORIENTATION, 1" COUPLING AT 18'-0" ABOVE BASE LOCATED OPPOSITE FIXTURE HEAD ORIENTATION	PHILIPS McGRAW-EDISON
S4D	25' TWIN LED PARKING LUMINAIRE	[LITHONIA] #DSX1-LED-40C-530-40K-T4M-MVOLT-SPA-DNAXD (FIXTURE) #DSX1-LED-40C-530-40K-T4M-MVOLT-SPA-DNAXD (FIXTURE) #SSA-25-6J-DM28AS-FBC-DNA (POLE)	2	68W 11400 LUMEN 4000K LED	MVOLT	136	DIECAST ALUMINUM HOUSING, INTEGRAL HEAT SINK, IP65, PRECISION MOLDED ACRYLIC LENS, 4000K CRI, 70+, NIGHTTIME FRIENDLY QUALIFIED, DLC QUALIFIED, TYPE 4 DISTRIBUTION, 530mA ON/OFF DRIVER, NATURAL ALUMINUM FINISH, 25'-0" SQUARE STRAIGHT ALUMINUM POLE, DRILL MOUNTING FOR 2 AT 180-DEGREES, FULL BASE COVER, NATURAL ALUMINUM FINISH	PHILIPS McGRAW-EDISON
S4DS	25' TWIN LED PARKING LUMINAIRE	[LITHONIA] #DSX1-LED-40C-530-40K-T4M-MVOLT-SPA-DNAXD (FIXTURE) #DSX1-LED-40C-530-40K-T4M-MVOLT-SPA-DNAXD (FIXTURE) #SSA-22.5-6J-DM28AS-FBC-DNA (POLE)	2	68W 11400 LUMEN 4000K LED	MVOLT	136	DIECAST ALUMINUM HOUSING, INTEGRAL HEAT SINK, IP65, PRECISION MOLDED ACRYLIC LENS, 4000K CRI, 70+, NIGHTTIME FRIENDLY QUALIFIED, DLC QUALIFIED, TYPE 4 DISTRIBUTION, 530mA ON/OFF DRIVER, NATURAL ALUMINUM FINISH, 22'-6" SQUARE STRAIGHT ALUMINUM POLE, DRILL MOUNTING FOR 2 AT 180-DEGREES, FULL BASE COVER, NATURAL ALUMINUM FINISH	PHILIPS McGRAW-EDISON
S5	25' LED PARKING LUMINAIRE	[LITHONIA] #DSX1-LED-40C-530-40K-T5M-MVOLT-SPA-DNAXD (FIXTURE) #SSA-25-6J-DM19AS-FBC-DNA (POLE)	1	68W 11918 LUMEN 4000K LED	MVOLT	68	DIECAST ALUMINUM HOUSING, INTEGRAL HEAT SINK, IP65, PRECISION MOLDED ACRYLIC LENS, 4000K CRI, 70+, NIGHTTIME FRIENDLY QUALIFIED, DLC QUALIFIED, TYPE 5 DISTRIBUTION, 530mA ON/OFF DRIVER, NATURAL ALUMINUM FINISH, 25'-0" SQUARE STRAIGHT ALUMINUM POLE, DRILL MOUNTING FOR 1 AT 90-DEGREES, FULL BASE COVER, NATURAL ALUMINUM FINISH	PHILIPS McGRAW-EDISON
R2	30' LED ROADWAY LUMINAIRE	[LITHONIA] #DSX2-LED-80C-1000-40K-T2M-MVOLT-SPA-DNAXD (FIXTURE) #SSA-30-6J-DM19AS-FBC-DNA (POLE)	1	277W 25455 LUMEN 4000K LED	MVOLT	277	DIECAST ALUMINUM HOUSING, INTEGRAL HEAT SINK, IP65, PRECISION MOLDED ACRYLIC LENS, 4000K CRI, 70+, NIGHTTIME FRIENDLY QUALIFIED, DLC QUALIFIED, TYPE 2 DISTRIBUTION, 1000mA ON/OFF DRIVER, NATURAL ALUMINUM FINISH, 30'-0" SQUARE STRAIGHT ALUMINUM POLE, DRILL MOUNTING FOR 1 AT 90-DEGREES, FULL BASE COVER, NATURAL ALUMINUM FINISH	PHILIPS McGRAW-EDISON
R2C	30' LED ROADWAY LUMINAIRE WITH COUPLINGS FOR CAMERA MOUNTING	[LITHONIA] #DSX2-LED-80C-1000-40K-T2M-MVOLT-SPA-DNAXD (FIXTURE) #SSA-30-6J-DM19AS-FBC-CPL12A-CPL118C-DNA (POLE)	1	277W 25455 LUMEN 4000K LED	MVOLT	277	DIECAST ALUMINUM HOUSING, INTEGRAL HEAT SINK, IP65, PRECISION MOLDED ACRYLIC LENS, 4000K CRI, 70+, NIGHTTIME FRIENDLY QUALIFIED, DLC QUALIFIED, TYPE 2 DISTRIBUTION, 1000mA ON/OFF DRIVER, NATURAL ALUMINUM FINISH, 30'-0" SQUARE STRAIGHT ALUMINUM POLE, DRILL MOUNTING FOR 1 AT 90-DEGREES, FULL BASE COVER, NATURAL ALUMINUM FINISH, 1" COUPLING AT 2'-0" ABOVE BASE LOCATED OPPOSITE FIXTURE HEAD ORIENTATION, 1" COUPLING AT 18'-0" ABOVE BASE LOCATED SAME SIDE AS FIXTURE HEAD ORIENTATION	PHILIPS McGRAW-EDISON
R2H	30' LED ROADWAY LUMINAIRE WITH HOUSE SIDE SHIELD	[LITHONIA] #DSX2-LED-80C-1000-40K-T2M-MVOLT-SPA-HS-DNAXD (FIXTURE) #SSA-30-6J-DM19AS-FBC-DNA (POLE)	1	277W 21952 LUMEN 4000K LED	MVOLT	277	DIECAST ALUMINUM HOUSING, INTEGRAL HEAT SINK, IP65, PRECISION MOLDED ACRYLIC LENS, 4000K CRI, 70+, NIGHTTIME FRIENDLY QUALIFIED, DLC QUALIFIED, TYPE 2 DISTRIBUTION, 1000mA ON/OFF DRIVER, NATURAL ALUMINUM FINISH, 30'-0" SQUARE STRAIGHT ALUMINUM POLE, DRILL MOUNTING FOR 1 AT 90-DEGREES, FULL BASE COVER, HOUSE SIDE SHEILD, NATURAL ALUMINUM FINISH	PHILIPS McGRAW-EDISON
R4	30' LED ROADWAY LUMINAIRE	[LITHONIA] #DSX2-LED-80C-1000-40K-T4M-MVOLT-SPA-DNAXD (FIXTURE) #SSA-30-6J-DM19AS-FBC-DNA (POLE)	1	277W 25396 LUMEN 4000K LED	MVOLT	277	DIECAST ALUMINUM HOUSING, INTEGRAL HEAT SINK, IP65, PRECISION MOLDED ACRYLIC LENS, 4000K CRI, 70+, NIGHTTIME FRIENDLY QUALIFIED, DLC QUALIFIED, TYPE 2 DISTRIBUTION, 1000mA ON/OFF DRIVER, NATURAL ALUMINUM FINISH, 30'-0" SQUARE STRAIGHT ALUMINUM POLE, DRILL MOUNTING FOR 1 AT 90-DEGREES, FULL BASE COVER, NATURAL ALUMINUM FINISH	PHILIPS McGRAW-EDISON

NOTES:
1. PROVIDE BALLAST DISCONNECT IN ALL FIXTURES IN ACCORDANCE WITH NEC 2014 ARTICLE 410.130(G)

SITE LIGHTING CIRCUIT SCHEDULE (3)

CIRCUIT NO.	CIRCUIT SIZE	SITE FIXTURES
#1	2#10&1#10 GROUND IN 1" PVC CONDUIT	SITE LIGHT #1-1 THROUGH #1-10
#2	2#10&1#10 GROUND IN 1" PVC CONDUIT	SITE LIGHT #2-1 THROUGH #2-3
#3	2#10&1#10 GROUND IN 1" PVC CONDUIT	SITE LIGHT #3-1 THROUGH #3-3
#4	2#10&1#10 GROUND IN 1" PVC CONDUIT	SITE LIGHT #4-1 THROUGH #4-8
#5	2#1&1#8 GROUND IN 1 1/2" PVC CONDUIT	SITE LIGHT #5-1 THROUGH #5-11
#6	2#10&1#10 GROUND IN 1" PVC CONDUIT	SITE LIGHT #6-1 THROUGH #6-5
#7	2#10&1#10 GROUND IN 1" PVC CONDUIT	SITE LIGHT #7-1 THROUGH #7-3
#8	2#10&1#10 GROUND IN 1" PVC CONDUIT	SITE LIGHT #8-1 THROUGH #8-6
#9	2#6&1#8 GROUND IN 1" PVC CONDUIT	SITE LIGHT #9-1 THROUGH #9-23
#10	2#10&1#10 GROUND IN 1" PVC CONDUIT	SITE LIGHT #10-1 THROUGH #10-9
#11	2#10&1#10 GROUND IN 1" PVC CONDUIT	SITE LIGHT #11-1 THROUGH #11-4
#12	2#1&1#8 GROUND IN 1 1/2" PVC CONDUIT	SITE LIGHT #12-1 THROUGH #12-6
#13	2#10&1#10 GROUND IN 1" PVC CONDUIT	SITE LIGHT #13-1 THROUGH #13-5

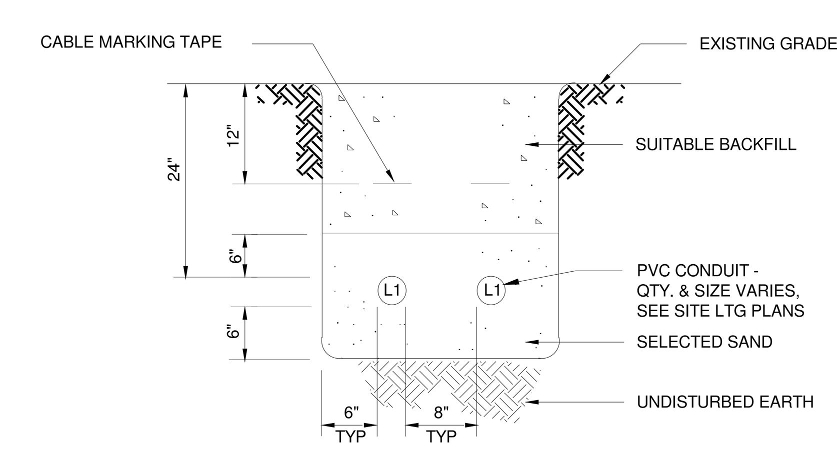
** NOTE: CONDUITS SHALL BE RGS UNDER DRIVEWAYS, ROADWAYS, PARKING LOTS, ETC., AND WHERE ENTERING INTO POLE BASES, BUILDINGS, ETC.



STRONGWELL #PG1118BA12, OR EQUIV.
(#PC1118HA00 COVER)

(1) TYPICAL SITE LIGHTING PULL BOX
NOT TO SCALE

(TYPICAL FOR LHH1)



(2) TYPICAL SITE LIGHTING TRENCH DETAIL
NOT TO SCALE

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305 Commercial Street, Portland, ME 04101
207.558.7200
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Boston, MA 02109
P: 617.494.1464
www.rfsengineering.com
RFS Project #: 7300.001

STATE OF MAINE
CHRISTOPHER M. SHUMWAY
No. 10820
LICENSED PROFESSIONAL ENGINEER

Sanford School Department and State of Maine Department of Education

SANFORD HIGH SCHOOL and TECHNICAL CENTER

SANFORD, ME 04073

NO.	DESCRIPTION	DATE

CONTENT:
ELECTRICAL SITE DETAILS

DRAWN BY:	C. NEWELL
PROJECT NO:	12-067-00
DATE:	02/11/2016
REVISED:	
SCALE:	AS NOTED

ES2.03

Project Phase
BID DOCUMENTS

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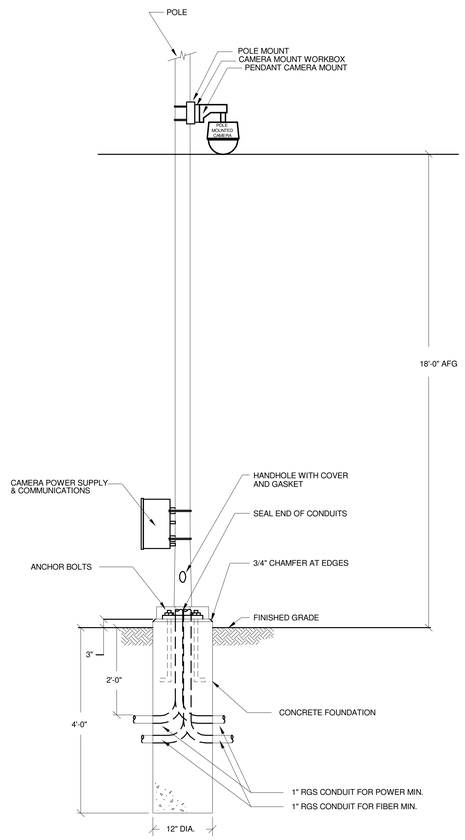
DRAWING NOTES

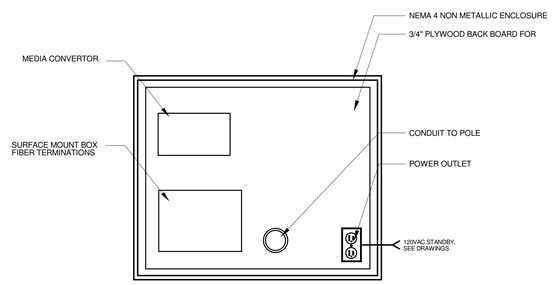
1 THE FOLLOWING NOTES ONLY APPLY TO THIS DRAWING.

2 REFER TO GENERAL NOTES, ELECTRICAL TRADE NOTES, LEGEND AND ABBREVIATIONS ON DRAWING E0.01.



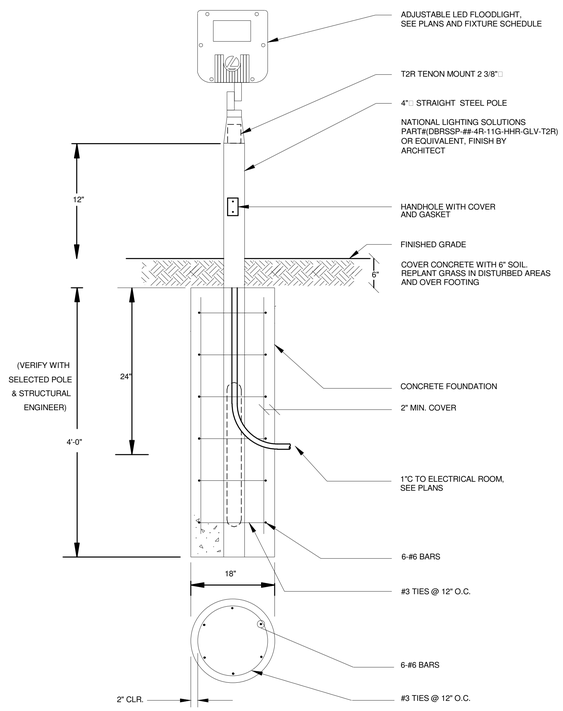
1 TYPICAL CCTV CAMERA POLE MOUNT DETAIL
NOT TO SCALE

COORDINATE EXACT SIZE AND CONFIGUATION WITH LIGHTING FIXTURE MANUFACTURER.



2 TYPICAL CCTV CAMERA POWER SUPPLY ENCLOSURE DETAIL
NOT TO SCALE

1. PROVIDE INTERNAL THERMOSTATICALLY CONTROLLED HEATER FOR ENCLOSURE TO REDUCE MOISTURE AND AMBIENT TEMP ABOVE 32 DEGREES.
2. PROVIDE A MINIMUM ENCLOSURE SIZE OF 16" X 14" X 8". THE ENCLOSURE SHALL BE SIZED TO SUPPORT ALL REQUIRED HARDWARE. ENCLOSURE SHALL BE LOCKABLE.



3 F1/G1 FIXTURE DIRECT BURIAL POLE MOUNTING DETAIL
NOT TO SCALE

PROVIDED UNDER ALTERNATE #7 ONLY, REFER TO LIGHTING FIXTURE SCHEDULE. PROVIDE FOR TYPE "G1" FIXTURE TYPICAL.

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Sanford School Department and State of Maine Department of Education

SANFORD HIGH SCHOOL and TECHNICAL CENTER

SANFORD, ME 04073

NO.	DESCRIPTION	DATE

CONTENT:
ELECTRICAL SITE DETAILS

DRAWN BY:	C. NEWELL
PROJECT NO:	12-067-00
DATE:	02/11/2016
REVISED:	
SCALE:	AS NOTED

ES2.04

Project Phase
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Control System Summary

Project Information

Project Specific Notes:

Project #:	53028357
Project Name:	Sanford High School Football/Soccer
Date:	12/16/15
Project Engineer:	JBrown
Sales Representative:	Mike Berry
Control System Type:	Control and Monitoring
Communication Type:	Digital Cellular
Scan:	53028357C
Document ID:	53028357P1V2-1216090229
Distribution Panel Location or ID:	
Total # of Distribution Panel Locations for Project:	1
Design Voltage/Hertz/Phase:	480/60/3
Control Voltage:	120

Equipment Listing

DESCRIPTION	APPROXIMATE SIZE
1.Control and Monitoring Cabinet	24 X 72

	QTY:	SIZE
Total Contactors:	4	30 AMP
Total Contactors	4	60 AMP
Total Off/On/Auto Switches:	2	

Preliminary Plans
Details - Voltage,
# of distribution panels, etc.

Materials Checklist

Contractor/Customer Supplied:

- ❑ A single control circuit must be supplied per distribution panel location.
  - — If the control voltage is NOT available, a control transformer is required.
- ❑ Electrical distribution panel to provide overcurrent protection for circuits
  - — Thermal/Magnetic circuit breaker sized per full load amps on Circuit Summary by Zone Chart
- ❑ Wiring:
  - — Dedicated control power circuit
  - — Power circuit to and from lighting contactors
  - — Harnesses for cabinets at remote locations
  - — Means of grounding, including lightning ground protection
- ❑ Electrical conduit wireway system
  - — Entrance hubs rated NEMA 4; must be die-cast zinc, PVC, or copper-free die-cast aluminum
- ❑ Mounting hardware for cabinets
- ❑ Control circuit lock-on device to prevent unauthorized power interruption to control power
- ❑ Anti-corrosion compound to apply to ends of wire, if necessary

Call Control-Link Central ™ operations center at 877/347-3319 to schedule activation of the control system upon completion of the installation. Note: Activation may take up to 1 1/2 hours

IMPORTANT NOTES

1. Please confirm that the design voltage listed above is accurate for this facility. Design voltage/phase is defined as the voltage/phase being connected and utilized at each lighting pole's ballast enclosure disconnect. Inaccurate design voltage/phase can result in additional costs and delays. Contact your Musco sales representative to confirm this item.
2. In a 3 phase design, all 3 phases are to be run to each pole. When a 3 phase design is used Musco's single phase luminaires come pre-wired to utilize all 3 phases across the entire facility.
3. One contactor is required for each pole. When a pole has multiple circuits, one contactor is required for each circuit. All contactors are UL 100% rated for the published continuous load. All contactors are 3 pole.
4. If the lighting system will be fed from more than one distribution location, additional equipment may be required. Contact your Musco sales representative.
5. A single control circuit must be supplied per control system.
6. Size overcurrent devices using the full load amps column of the Circuit Summary By Zone chart- Minimum power factor is 0.9.

NOTE: Refer to Installation Instructions for more details on equipment information and the installation requirements

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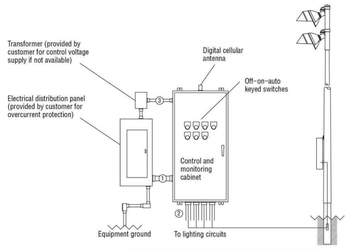
Form: T-0030-1

Control System Summary

Sanford High School Football/Soccer / 53028357 - 53028357C - Page 2 of 4

Control-Link. Control and Monitoring System



Wire	Description	# of Wires	Typ. Wire Size (AWG)	Max. Wire Length (FT)	Wire from Musco	Notes
1	Line power to contactors, and equipment grounding conductor	Note A	Note B	27	No	A – E
2	Load power to lighting circuits	Note A	Note B	N/A	No	A – D
3	Control power (dedicated, 20A)	3	12	N/A	No	C, D

R60-32-00_C

Notes:
A. Voltage and phasing per the notes on cover page.
B. Calculate per load and voltage drop.
C. All conduit diameters should be per code.
D. Refer to control and monitoring system installation instructions for more details on equipment information and the installation requirements.
E. Contact Musco if maximum wire length from circuit breaker to contactor exceeds value in chart.

IMPORTANT: Control (3) wires must be in separate conduit from line and load power wiring (1, 2).

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Control System Summary

Sanford High School Football/Soccer / 53028357 - 53028357C - Page 3 of 4

SWITCHING SCHEDULE

Field/Zone Description	Zones
Football	**1**
Track	**1,2**
-Football	1
-Walking Track	2

CONTROL POWER CONSUMPTION	
120V Single Phase	
VA loading of Musco Supplied Equipment	INRUSH: 2548.0
	SEALED: 298.8

BALLAST SPECIFICATIONS .90 Minimum Power Factor	VOLTAGE: 480v		THREE PHASE				
BALLAST OPERATING VOLTAGE	208	220	240	277	347	380	480
1500 Watt Metal Halide Lamp Operating line amperage per fixture- maximum	8.6	8.3	7.5	6.5	5.1	4.7	3.7
1000 Watt Metal Halide Lamp Operating line amperage per fixture- maximum	6.5	6.4	5.8	4.9	4.0	3.6	2.9

CIRCUIT SUMMARY BY ZONE

POLE	CIRCUIT DESCRIPTION	# OF FIXTURES	FULL LOAD AMPS	CONTACTOR SIZE (AMPS)	CONTACTOR ID	ZONE
F1	Football	13	**33.3**	60	C1	1
F2	Football	13	**33.3**	60	C2	1
F3	Football	15	**37.0**	60	C3	1
F4	Football	15	**37.0**	60	C4	1
F1	Walking Track	2	**7.4**	30	C5	2
F2	Walking Track	2	**7.4**	30	C6	2
F3	Walking Track	2	**7.4**	30	C7	2
F4	Walking Track	2	**7.4**	30	C8	2

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Control System Summary

Sanford High School Football/Soccer / 53028357 - 53028357C - Page 4 of 4

PANEL SUMMARY

CABINET #	CONTROL MODULE LOCATION	CONTACTOR ID	CIRCUIT DESCRIPTION	FULL LOAD AMPS	DISTRIBUTION PANEL ID (BY OTHERS)	CIRCUIT BREAKER POSITION (BY OTHERS)
1	1	C1	Pole F1	33.30		
1	1	C2	Pole F2	33.30		
1	1	C3	Pole F3	37.00		
1	1	C4	Pole F4	37.00		
1	1	C5	Pole F1	7.40		
1	1	C6	Pole F2	7.40		
1	1	C7	Pole F3	7.40		
1	1	C8	Pole F4	7.40		

ZONE SCHEDULE

ZONE	SELECTOR SWITCH	ZONE DESCRIPTION	CIRCUIT DESCRIPTION: POLE ID	CIRCUIT DESCRIPTION: CONTACTOR ID
Zone 1	1	Football	F1 F2 F3 F4	C1 C2 C3 C4
Zone 2	2	Walking Track	F1 F2 F3 F4	C5 C6 C7 C8

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DRAWING NOTES

1. THE FOLLOWING NOTES ONLY APPLY TO THIS DRAWING.
2. REFER TO GENERAL NOTES, ELECTRICAL TRADE NOTES, LEGEND AND ABBREVIATIONS ON DRAWING E0.01.
3. MUSCO LIGHTING INFORMATION IS PROVIDED FOR INFORMATION PURPOSES ONLY. THE EQUIPMENT INDICATED SHALL BE PROVIDED BY THE ELECTRICAL CONTRACTOR. ALL WIRING IN CONDUITS SHALL BE PROVIDED FROM THE POWER DISTRIBUTION SYSTEM AND CONTROLS CABINETS TO JUNCTION BOXES MOUNTED APPROXIMATELY TWENTY (20) FEET UP THE INDIVIDUAL LIGHT POLES.

Pole / Fixture Summary

Pole ID	Pole Height	Fixture Qty	Lamp Type	Group
F1	80'	2	1500W MZ	B
		13	1500W MZ	A
F2	80'	13	1500W MZ	A
		2	1500W MZ	B
F3	80'	2	1500W MZ	B
		15	1500W MZ	A
F4	80'	2	1500W MZ	B
		15	1500W MZ	A
4		**64**		

Calculation Grid Summary

Grid Name	Calculation Metric	Light Level: Type	Ave	Min	Max	Uniformity: Max/Min	Ave/Min	Groups	Fixture Qty
Football	Horizontal Illuminance	Constant	51.4	42	66	1.56	1.22	A	56
Soccer	Horizontal Illuminance	Constant	52.4	43	69	1.62	1.22	A	56
Track	Horizontal Illuminance	Constant	32.7	8	77	9.64	4.17	A,B	64
Walking Track	Horizontal Illuminance	Constant	5.97	3	11	4.23	2.27	B	8
Zero Grid	Horizontal	Constant	0.89	0	37	2499.40	61.12	A,B	64

Group Summary

Group	Description	Load	Fixture Qty
A	Football/Soccer	87.58 kW	56
B	Track	12.51 kW	8

MY PROJECT
Name: Sanford High School Football/Soccer
Location: Sanford,ME

ENGINEERED DESIGN
By: Jared Brown
File # / Date: 53028357C 16-Dec-15

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PROJECT SUMMARY

PRELIMINARY FOUNDATION AND POLE ASSEMBLY DRAWING

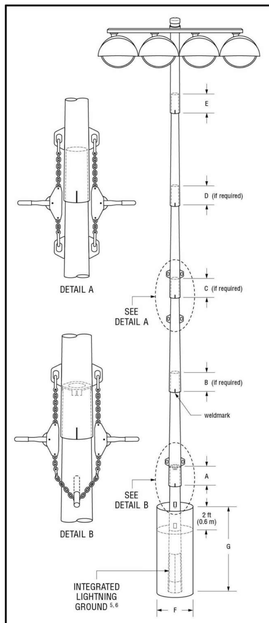

TABLE 1: POLE ASSEMBLY

POLE ID	MOUNTING HEIGHT ft (m)	# OF LUMINAIRES	ASSEMBLED POLE WEIGHT [1] lb (kg)
F1	80 (24.4)	15	3923 (1779)
F2	80 (24.4)	15	3923 (1779)
F3	80 (24.4)	17	4103 (1861)
F4	80 (24.4)	17	4103 (1861)

Pole Assembly Notes:
1. Steel pole should overlap concrete base and be seated tight with 1 1/2 ton come-alonges (contractor provided).
2. Align weldmarks on steel sections before assembling.
3. Assembled pole weight includes steel sections, crossarms, luminaires, and electrical components enclosures.
4. This document is not intended for use as an assembly instruction. See *Installation Instructions: Light-Structure Green Lighting System™* for complete assembly procedure.

TABLE 2: FOUNDATION DETAILS

POLE ID	CONCRETE BASE WEIGHT lb(kg)	BURIAL INFORMATION [3,4]: F in (mm)	G ft (m)	CONCRETE BACKFILL [1,2] yd³ (m³)	CUT BASE	LIGHTNING GROUND [5]: TYPE	SUPPLEMENTAL INSTRUCTION
F1	5300 (2404)	30 (762)	16 (4.9)	1.6 (1.2)	NO	INTEGRATED [5]	
F2	5300 (2404)	30 (762)	16 (4.9)	1.6 (1.2)	NO	INTEGRATED [5]	
F3	5300 (2404)	30 (762)	16 (4.9)	1.6 (1.2)	NO	INTEGRATED [5]	
F4	5300 (2404)	30 (762)	16 (4.9)	1.6 (1.2)	NO	INTEGRATED [5]	

Foundation Notes:
1. Concrete backfill is calculated to 2 ft (0.6m) below grade (no overage included). Top 2 ft (0.6m) to be class 5 soil compacted to 95% density of surrounding undisturbed soil unless otherwise specified in stamped structural design.
2. Concrete backfill required 3000 lb/in² (20 MPa) minimum unless otherwise specified in stamped structural design.
3. Foundation design per 2009 IBC ,90 mph ,exposure category C ,variation STD.
4. Assumes IBC class 5 soils.
5. Standard bases include integrated lightning protection. If bases are cut, supplemental lightning protection is required. Contact Musco for materials and instruction.
6. Lightning protection is a manufacturer installed concrete encased electrode and connector. Ground connection is made when concrete base is installed and footing is poured. No additional steps required.

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Sanford High School Football/Soccer - Sanford, ME, USA
Date: 12/22/2015 Scale: N/A
Rep: Mike Berry Page: 1 of 1
Project: 53028357 Preliminary

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STATE OF MAINE CHRISTOPHER M. RUMWAY No. 10697 LICENSED PROFESSIONAL ENGINEER

Sanford School Department and State of Maine Department of Education

SANFORD HIGH SCHOOL and TECHNICAL CENTER

SANFORD, ME 04073

NO.	DESCRIPTION	DATE

FOR ADDITIONAL INFORMATION, REFER TO PROJECT MANUAL.

CONTENT:
STADIUM LIGHTING INFORMATION

DRAWN BY:	C. NEWELL
PROJECT NO:	12-067-00
DATE:	02/11/2016
REVISED:	
SCALE:	NO SCALE

ES2.05

Project Phase
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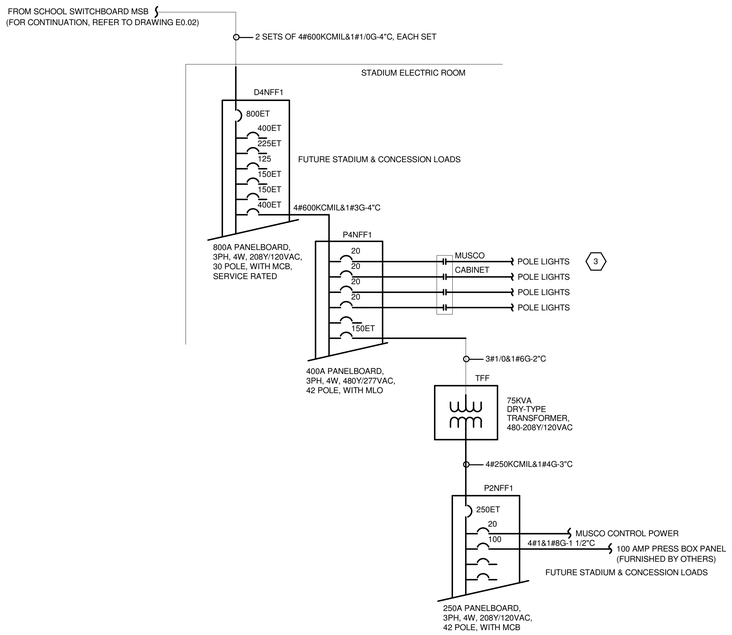
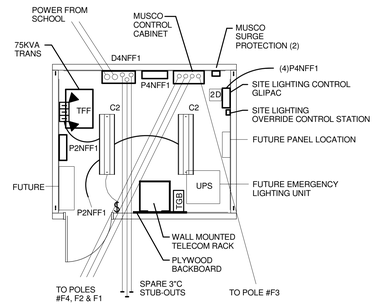
DRAWING NOTES

1. THE FOLLOWING NOTES ONLY APPLY TO THIS DRAWING.
2. REFER TO GENERAL NOTES, ELECTRICAL TRADE NOTES, LEGEND AND ABBREVIATIONS ON DRAWING E0.01.
3. INSTALL MUSCO EQUIPMENT CONTACTOR AND CONTROL CABINETS, FURNISHED AS PART OF THE FIELD LIGHTING SYSTEM EQUIPMENT, AND PROVIDE ALL WIRING IN CONDUIT FOR A COMPLETE INSTALLATION.
4. FOR HANDHOLE LOCATIONS, SEE ELECTRICAL SITE PLANS, DRAWINGS ES1.01 TO ES1.14.

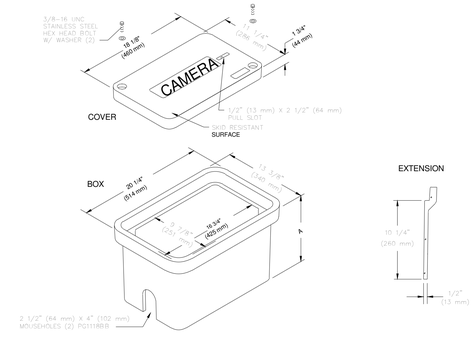


1 PROPOSED PARTIAL FOOTBALL FIELD STADIUM ONE-LINE DIAGRAM
NOT TO SCALE



2 STADIUM MAIN ELECTRICAL ROOM
1/4" = 1'-0"

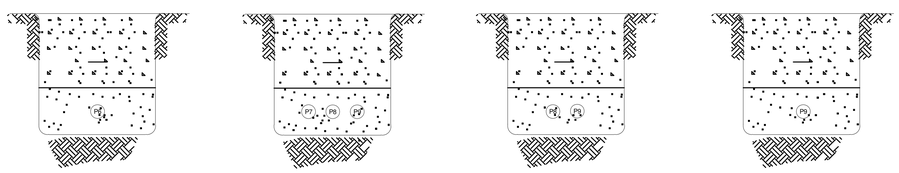
(FOR ROOM LOCATION, REFER TO SITE DRAWING ES1.10)
(FOR MUSCO LIGHTING INFORMATION, REFER TO DRAWING ES2.05)



STRONGWELL #PG1118BA12, OR EQUIV.
(#PG1118HA00 COVER)

3 CAMERA HANDHOLE DETAIL
NOT TO SCALE

4 (TYPICAL FOR CHH)

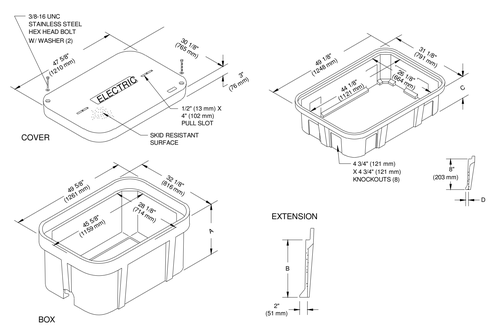


SECTION G NOT TO SCALE (ES1.10 | ES2.06)

SECTION H NOT TO SCALE (ES1.11 | ES2.06)

SECTION C NOT TO SCALE (ES1.08 | ES2.06)

SECTION D NOT TO SCALE (ES1.11 | ES2.06)



STRONGWELL #PG3048BA36, OR EQUIV.
(#PG3048HA00 COVER)

4 ELECTRICAL HANDHOLE DETAIL
NOT TO SCALE

4 (TYPICAL FOR EHH)

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Sanford School Department and State of Maine Department of Education

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SANFORD, ME 04073

NO.	DESCRIPTION	DATE

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CONTENT:
STADIUM LIGHTING DETAILS

DRAWN BY:	C. NEWELL
PROJECT NO:	12-067-00
DATE:	02/11/2016
REVISED:	
SCALE:	AS NOTED

ES2.06

Project Phase
BID DOCUMENTS

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FIRE ALARM SYSTEM LEGEND

Symbol	Description
FACP	SEMI-RECESSED FIRE ALARM CONTROL PANEL T=TRAINING DEVICE
PACP	SEMI-RECESSED PRE-ACTION CONTROL PANEL
FAS	SEMI-RECESSED FIRE ALARM SUBPANEL
FAA	FIRE ALARM ANNUNCIATOR
VCP	VOICE EVAC CONTROL PANEL AND MICROPHONE
F	FIRE ALARM PULL STATION, MH = 48"AFF, UON T=TRAINING DEVICE
F#	FIRE ALARM STROBE, MH = 6'-8"AFF, UON #=MINIMUM STROBE CANDELA RATING CLG=CEILING MOUNTED T=TRAINING DEVICE
F#	FIRE ALARM SPEAKER STROBE, MH = 6'-8"AFF, UON #=MINIMUM STROBE CANDELA RATING WP=WEATHER PROOF
Sx	SMOKE DETECTOR E=ELEVATOR RECALL CONTROL WP=WEATHER PROOF T=TRAINING DEVICE
Hx	HEAT DETECTOR, E=ELEVATOR SHUNT CONTROL 135=135°F RATE-OF-RISE/FIXED TEMPERATURE 200=200°F FIXED TEMPERATURE CO=CO DETECTOR INTEGRATED WITH HEAT DETECTOR OR SUPPLY LOCAL STAND ALONE
Cx	CARBON MONOXIDE DETECTOR L=LOCAL 120V DETECTOR SB=LOCAL SYSTEM CONNECTED WITH SOUNDER BASE
	FLOW SWITCH *
	TAMPER SWITCH *
PS	PRESSURE SWITCH *
HFP	HOOD FIRE SUPPRESSION SYSTEM *
TS	TEST STATION, MH = 48"AFF, UON
CM	ADDRESSABLE CONTROL MODULE
AM	ADDRESSABLE MODULE
	SPRINKLER ALARM BELL FURNISHED BY SPRINKLER CONTRACTOR, INSTALLED AND WIRED BY ELECTRICAL CONTRACTOR
KB	RECESSED LOCKED KEY BOX (KNOX BOX)
M	MAGNETIC DOOR HOLDER **
SMCP	SMOKE CONTROL PANEL
	FIRE/SMOKE DAMPER *
	SMOKE DAMPER *
SD	DUCT MOUNTED SMOKE DETECTOR
F B	FIRE ALARM BEACON, MH = 6'-8"AFF, UON RED = FAA OR FACP LOCATION WHITE = SPRINKLER FLOW INDICATOR BLUE = BUILDING LOCK DOWN INDICATOR
M#	FIRE ALARM SPEAKER STROBE WITH MASS NOTIFICATION STROBE LIGHT, MH = 6'-8"AFF, UON #=MINIMUM STROBE CANDELA RATING
HCx	WALL MOUNTED CARBON MONOXIDE DETECTOR L=LOCAL 120V DETECTOR SB=LOCAL SYSTEM CONNECTED WITH SOUNDER BASE
AFD	ACCORDION FIRE DOOR
GD	GAS DETECTOR
W	WET ALARM VALVE - VALVE LOCATION INCLUDES FLOW & TAMPER SWITCH
D	DRY ALARM VALVE - VALVE LOCATION INCLUDES FLOW, TAMPER & PRESSURE SWITCH

ABBREVIATIONS

AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AHU	AIR HANDLING UNIT *
C	COUNTER HEIGHT
CLG	CEILING MOUNTED
CUH	CABINET UNIT HEATER *
DN	DOWN
DWG	DRAWING
EC	ELECTRICAL CONTRACTOR
EF	EXHAUST FAN *
EHH	ELECTRICAL HANDHOLE
EMH	ELECTRICAL MANHOLE
FB	FAN BOX *
FIBO	FURNISHED AND INSTALLED BY OWNER/OTHERS
HOA	HAND-OFF-AUTO SELECTOR SWITCH
HP	HORSEPOWER
LOR	LOCATED ON ROOF
MC	MECHANICAL CONTRACTOR
MCB	MAIN CIRCUIT BREAKER
MD	MOTORIZED DOOR **
MH	MOUNTING HEIGHT
NTS	NOT TO SCALE
OD	OVERHEAD DOOR **
OFCI	OWNER FURNISHED CONTRACTOR INSTALLED
PC	PLUMBING CONTRACTOR
PUH	PROPELLER UNIT HEATER *
RF	RETURN FAN *
RTU	ROOF TOP UNIT *
SF	SUPPLY FAN *
SPCP	SEWAGE PUMP CONTROL PANEL
S/S	START/STOP PUSH BUTTONS
S. STL	STAINLESS STEEL
THH	TELECOMMUNICATIONS HANDHOLE
TMH	TELECOMMUNICATIONS MANHOLE
TYP	TYPICAL
UON	UNLESS OTHERWISE NOTED
VP	VANDAL PROOF
WPCP	WELL PUMP CONTROL PANEL
WG	WIRE GUARD
WP	WEATHER PROOF
WUH	WALL MOUNTED UNIT HEATER *
*	EQUIPMENT PROVIDED BY MECHANICAL TRADE, WIRED BY ELECTRICAL TRADE
**	EQUIPMENT PROVIDED BY DOOR HARDWARE TRADE, WIRED BY ELECTRICAL TRADE

ELECTRICAL TRADE NOTES

1 ALL ELECTRICAL WORK SHALL BE PERFORMED IN ACCORDANCE WITH ALL APPLICABLE NATIONAL, STATE AND LOCAL CODES AND THE CURRENT NATIONAL ELECTRICAL CODE (NEC) BY ELECTRICIANS LICENSED BY THE STATE IN WHICH THE WORK IS PERFORMED.

2 THE ELECTRICAL CONTRACTOR SHALL VERIFY THE EXACT LOCATION AND ELECTRICAL REQUIREMENTS OF ALL EQUIPMENT PRIOR TO INSTALLING ANY CONDUIT AND/OR CABLE. IF ELECTRICAL REQUIREMENTS DIFFER FROM THOSE INDICATED, OR IF ADDITIONAL EQUIPMENT IS REQUIRED BY CODE, INFORM THE ENGINEER.

3 WIRING FOR ALL SINGLE PHASE CIRCUITS, 20A OR SMALLER, SHALL BE A MINIMUM OF 2#12&1#12G-3/4"C., FOR CIRCUIT LENGTHS UNDER 100FT AND 2#10&1#10G-3/4"C., FOR CIRCUIT LENGTHS 100FT AND OVER , UNLESS OTHERWISE NOTED. CIRCUITS FOR ISOLATED GROUND RECEPTACLES SHALL INCLUDE ADDITIONAL ISOLATED GROUND CONDUCTOR. CIRCUITS FOR DOUBLE SWITCHED LIGHT FIXTURES SHALL INCLUDE ADDITIONAL SWITCHED CONDUCTOR(S) AS REQUIRED. THE SHARING OF NEUTRAL CONDUCTORS IS NOT ALLOWED.

4 MOUNTING HEIGHTS GIVEN FOR ALL WIRING DEVICES (WALL SWITCHES, RECEPTACLES, ETC.), FIRE ALARM DEVICES, TELEPHONE EQUIPMENT, SPEAKERS AND LIGHT FIXTURES ARE TO THE CENTERLINE OF THE JUNCTION BOX USED TO MOUNT THE DEVICE, UNLESS OTHERWISE NOTED.

5 REMOVE AND DISPOSE OF EXISTING ELECTRICAL EQUIPMENT AND ASSOCIATED BOXES, CONDUIT AND WIRE WHERE INDICATED OR WHERE LOCATED ON OR WITHIN WALLS AND CEILINGS BEING DEMOLISHED OR ALTERED AS A RESULT OF THIS CONTRACT, UNLESS OTHERWISE INDICATED. IT IS NOT THE INTENT OF THESE DRAWINGS TO INDICATE ALL ELECTRICAL ITEMS TO BE REMOVED.

6 CIRCUIT WIRING INDICATED ON DRAWINGS IS SCHEMATIC IN NATURE AND SHALL NOT BE CONSIDERED TO BE POINT-TO-POINT, UNLESS OTHERWISE NOTED.

7 EXISTING ELECTRICALLY POWERED ITEMS THAT REMAIN SHALL BE RECIRCUITED, IF NECESSARY, TO ENSURE CONTINUED OPERATION.

8 COORDINATE FINAL LOCATIONS OF CEILING LIGHT FIXTURES AND OTHER EQUIPMENT WITH REFLECTED CEILING PLANS AND ALL OTHER TRADE DRAWINGS PRIOR TO INSTALLATION.

9 WHERE LONG CIRCUIT LENGTHS ARE REQUIRED, ENSURE LESS THAN 3% VOLTAGE DROP UNDER FULL LOAD. INCREASE WIRE SIZE ON CIRCUITS 100 FEET LONG AND ABOVE.

10 PROVIDE AND ENSURE FIREPROOFING OF ALL CONDUIT, CABLING AND ANY OTHER ELECTRICAL DEVICES THROUGH FIRE RATED ASSEMBLIES.

11 PROVIDE PULL STRINGS IN ALL CONDUIT SYSTEMS LEFT FOR USE BY OTHERS.

12 MOUNTING HEIGHT FOR ELECTRICAL DEVICES (RECEPTACLES, MULTICOMMUNICATIONS OUTLETS, ETC) LOCATED ON EXTERIOR WALLS ABOVE FINTUBE SHALL BE 4" FROM TOP OF FINTUBE ENCLOSURE TO CENTERLINE OF ELECTRICAL DEVICE.

13 PROVIDE EXPANSION FITTINGS IN CONDUIT RISERS FROM ALL EXTERIOR UNDERGROUND CONDUITS TO FIXED EQUIPMENT OR CONDUIT FITTINGS AND PROVIDE FLEXIBLE CONNECTIONS TO ANY EQUIPMENT SUBJECT TO SETTLEMENT OR FROST HEAVES.

14 WHERE DOUBLE SWITCHES ARE INDICATED, FIXTURES SHALL BE PROVIDED WITH MULTIPLE BALLASTS.

GENERAL NOTES

THE FOLLOWING GENERAL NOTES APPLY TO ALL RIST-FROST-SHUMWAY ENGINEERING, P.C., DRAWINGS AND TRADES ASSOCIATED WITH THOSE DRAWINGS INVOLVED ON THIS PROJECT:

G-1 RIST-FROST-SHUMWAY ENGINEERING, P.C., WAIVES ANY AND ALL RESPONSIBILITY AND LIABILITY FOR PROBLEMS WHICH ARISE FROM FAILURE TO FOLLOW THESE PLANS, SPECIFICATIONS AND/OR THE DESIGN INTENT THEY CONVEY, OR FOR PROBLEMS WHICH ARISE FROM OTHERS' FAILURE TO OBTAIN AND/OR FOLLOW THE GUIDANCE OF RIST-FROST-SHUMWAY ENGINEERING, P.C., WITH RESPECT TO ANY ERRORS, OMISSIONS, INCONSISTENCIES, AMBIGUITIES OR CONFLICTS WHICH ARE DISCOVERED OR ALLEGED.

G-2 ALL WORK SHALL CONFORM TO ALL FEDERAL, STATE, AND LOCAL CODES AND STANDARDS INCLUDING, BUT NOT LIMITED TO: NFPA, IBC, UL, SMACNA, OSHA, AND NEC.

G-3 THE CONTRACTOR AND ALL SUBCONTRACTORS SHALL PROTECT THE WORK SITE, SURROUNDING AREAS AND OCCUPANTS FROM DAMAGE AND INJURY.

G-4 THE CONTRACTOR AND ALL SUBCONTRACTORS SHALL FAMILIARIZE THEMSELVES WITH THE CONTRACT DOCUMENTS. ALL DRAWINGS OF ANY PARTICULAR TRADE SHALL BE USED IN CONJUNCTION WITH DRAWINGS OF ALL OTHER TRADES TO COORDINATE ALL CONSTRUCTION. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER BEFORE PROCEEDING WITH THE AFFECTED WORK. ANY PROPOSED CHANGES, VARIATIONS OR SUBSTITUTIONS MUST BE REVIEWED AND ACCEPTED BY THE ENGINEER PRIOR TO IMPLEMENTATION.

G-5 ALL DRAWINGS ARE INTENDED TO SHOW THE GENERAL ARRANGEMENT, DESIGN INTENT AND EXTENT OF THE WORK. THEY SHALL BE CONSIDERED PARTLY DIAGRAMMATIC. THEY ARE NOT INTENDED TO BE SCALED FOR ROUGHING-IN MEASUREMENTS OR TO SERVE AS SHOP DRAWINGS.

G-6 THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL DIMENSIONS (AS-BUILT OR OTHERWISE) BEFORE COMMENCING FABRICATION, AND/OR ORDERING MATERIALS.

G-7 DETAILS SHOWN ON ANY DRAWING ARE TO BE CONSIDERED TYPICAL FOR ALL SIMILAR CONDITIONS, UNLESS OTHERWISE INDICATED.

G-8 INFORMATION ON THESE DRAWINGS PERTAINING TO AS-BUILT CONSTRUCTION AND OTHER EXISTING CONDITIONS HAVE BEEN OBTAINED FROM OTHER DOCUMENTATION OR BY FIELD INVESTIGATION. (SEE GENERAL AND SUPPLEMENTAL CONDITIONS FOR LISTING). THIS INFORMATION IS PROVIDED FOR THE CONTRACTOR'S BENEFIT IN PERFORMANCE OF THE WORK.

G-9 IN THE EVENT THE CONTRACTOR ENCOUNTERS MATERIAL REASONABLY BELIEVED TO BE HAZARDOUS WHICH HAS NOT BEEN RENDERED HARMLESS, THE CONTRACTOR SHALL IMMEDIATELY STOP WORK IN THE AREA AFFECTED AND REPORT THE CONDITION TO THE OWNER AND ARCHITECT/ENGINEER IN WRITING. THE WORK IN THE AFFECTED AREA SHALL NOT BE RESUMED UNTIL WRITTEN VERIFICATION BY THE OWNER THAT THE MATERIAL HAS BEEN REMOVED OR OTHERWISE BEEN RENDERED HARMLESS.

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SANFORD HIGH SCHOOL and TECHNICAL CENTER

SANFORD, ME 04073

NO.	DESCRIPTION	DATE

FOR ADDITIONAL INFORMATION, REFER TO PROJECT MANUAL.

CONTENT:
FIRE ALARM SYMBOLS LEGEND AND TRADE NOTES

DRAWN BY:	C. NEWELL
PROJECT NO:	12-067-00
DATE:	02/11/2016
REVISED:	
SCALE:	NO SCALE

FA0.01

Project Phase
BID DOCUMENTS

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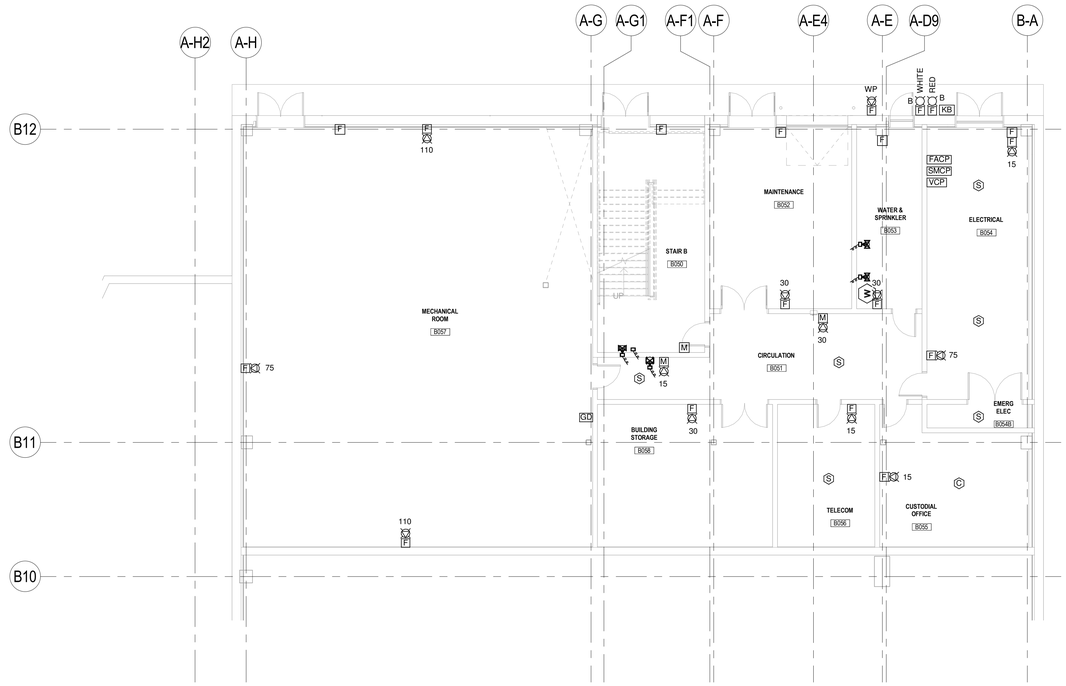
3. FOR TYPICAL DEVICE LOCATIONS DETAIL, REFER TO DRAWING E5.01.



1 BASEMENT - FIRE ALARM PLAN
1/8" = 1'-0"

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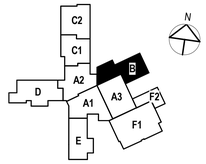

CONTENT:
BASEMENT FIRE ALARM PLAN

DRAWN BY:	C. NEWELL
PROJECT NO:	12-067-00
DATE:	02/11/2016
REVISED:	
SCALE:	1/8" = 1'-0"

FA1.09

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(A-F1)

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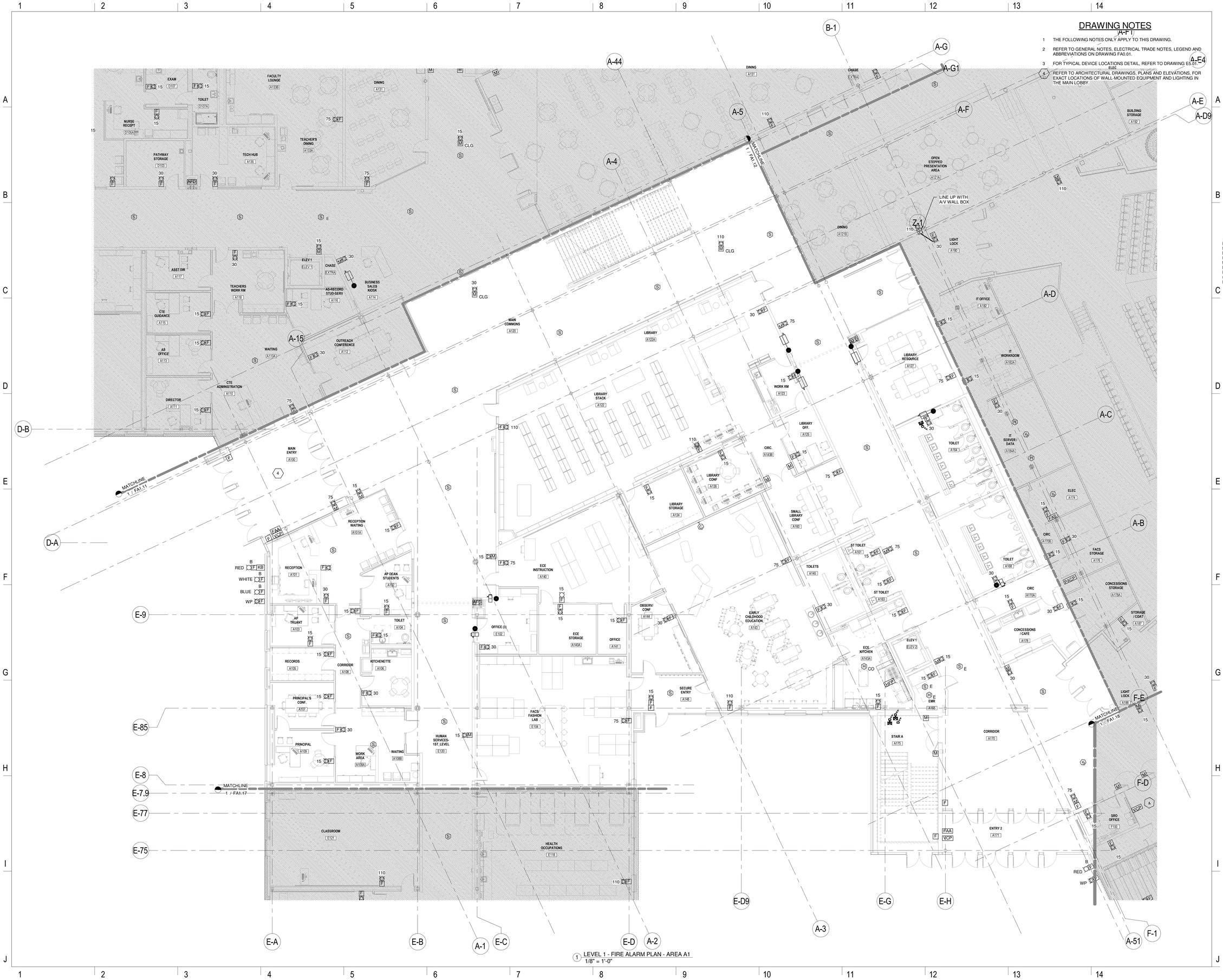
3. FOR TYPICAL DEVICE LOCATIONS DETAIL, REFER TO DRAWING E5.01.
4. REFER TO ARCHITECTURAL DRAWINGS, PLANS AND ELEVATIONS, FOR EXACT LOCATIONS OF WALL-MOUNTED EQUIPMENT AND LIGHTING IN THE MAIN LOBBY.



1 LEVEL 1 - FIRE ALARM PLAN - AREA A1
1/8" = 1'-0"

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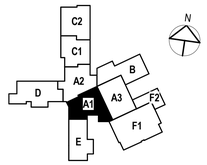

CONTENT:
FIRST FLOOR FIRE ALARM PLAN - AREA A1

DRAWN BY:	C. NEWELL
PROJECT NO:	12-067-00
DATE:	02/11/2016
REVISED:	
SCALE:	1/8" = 1'-0"

FA1.10

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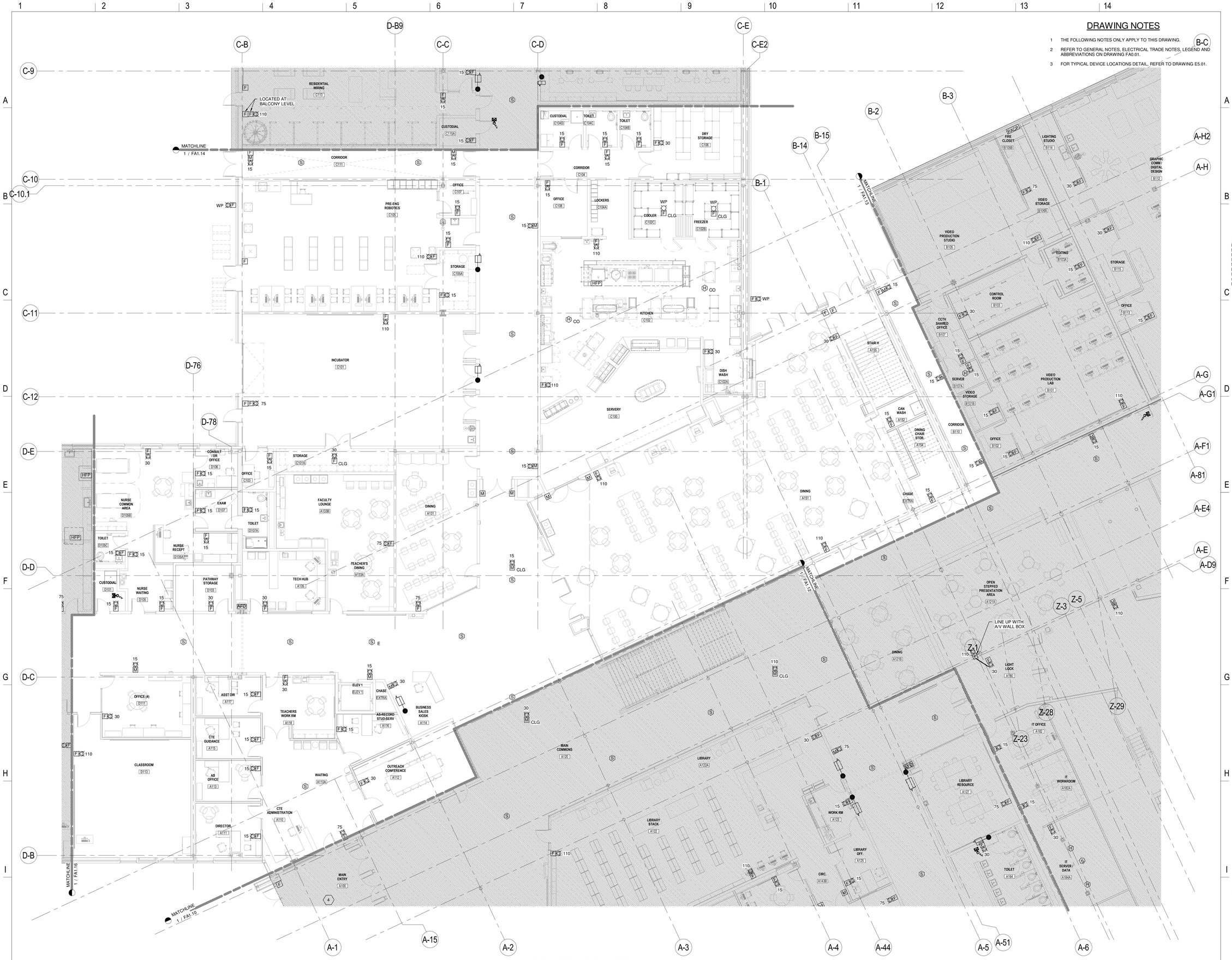
3. FOR TYPICAL DEVICE LOCATIONS DETAIL, REFER TO DRAWING E5.01.



1 LEVEL 1 - FIRE ALARM PLAN - AREA A2
1/8" = 1'-0"

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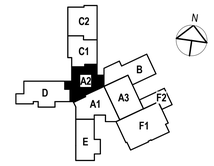

CONTENT:
FIRST FLOOR FIRE ALARM PLAN - AREA A2

DRAWN BY:	C. NEWELL
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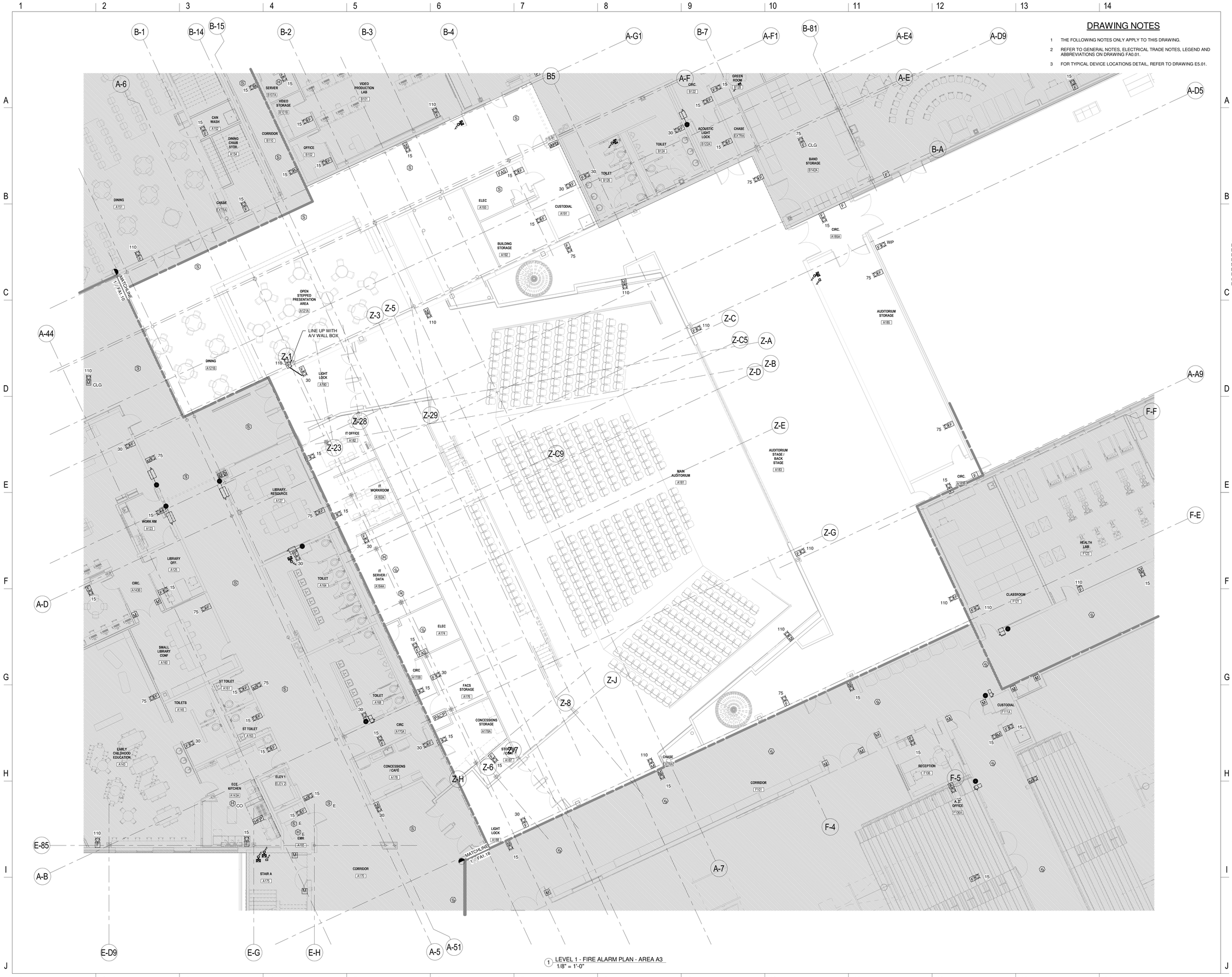

1 LEVEL 1 - FIRE ALARM PLAN - AREA A3
1/8" = 1'-0"

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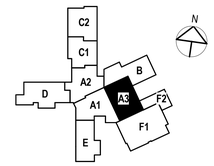

CONTENT:
FIRST FLOOR FIRE ALARM PLAN - AREA A3

DRAWN BY:	C. NEWELL
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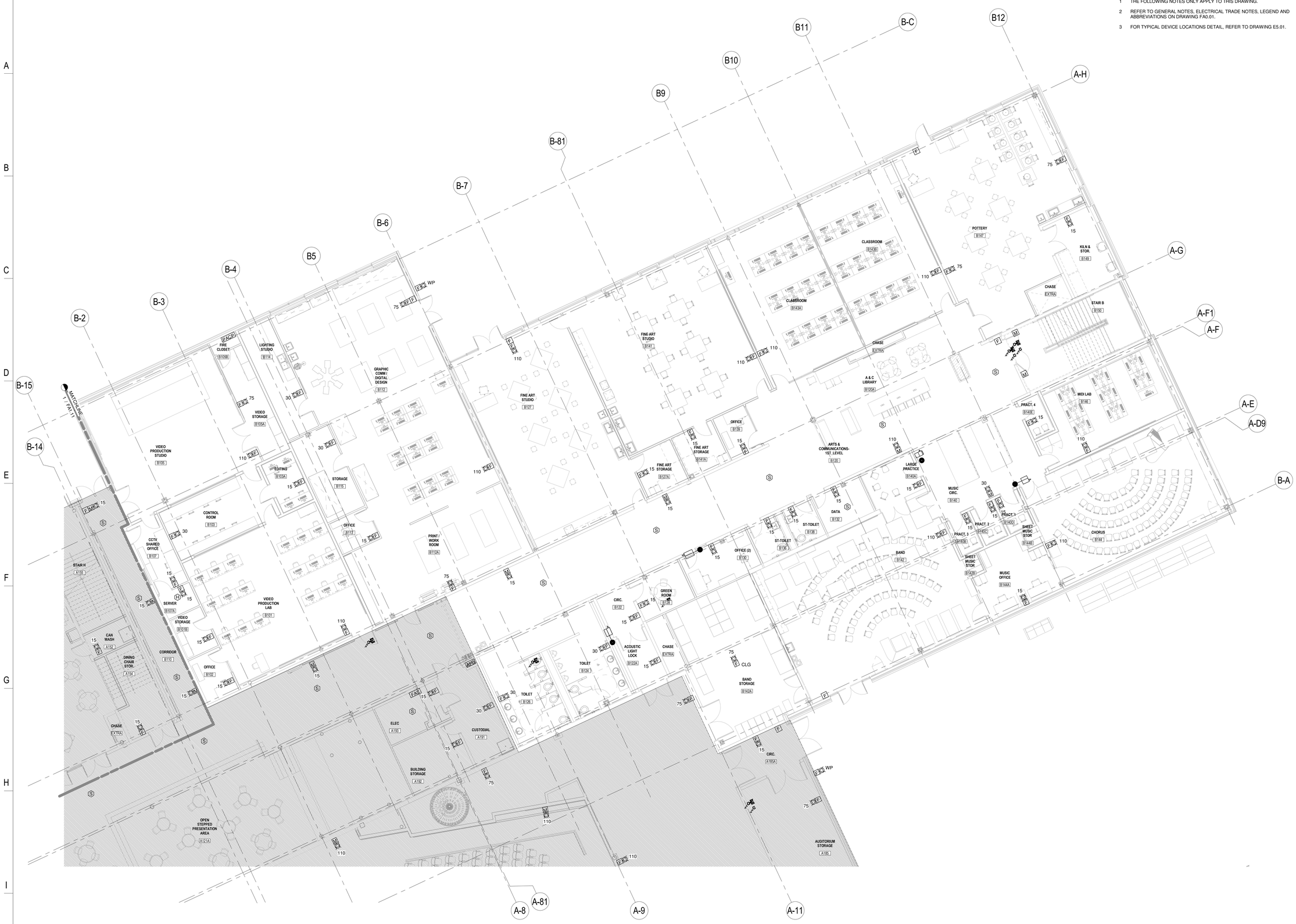

1 LEVEL 1 - FIRE ALARM PLAN - AREA B
1/8" = 1'-0"

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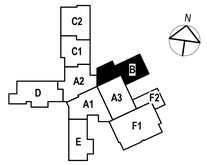

CONTENT:
FIRST FLOOR FIRE ALARM PLAN - AREA B

DRAWN BY:	C. NEWELL
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DATE:	02/11/2016
REVISED:	
SCALE:	1/8" = 1'-0"

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3. FOR TYPICAL DEVICE LOCATIONS DETAIL, REFER TO DRAWING E5.01.

1 LEVEL 1 - FIRE ALARM PLAN - AREA C1
1/8" = 1'-0"

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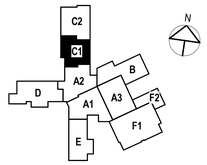

CONTENT:
FIRST FLOOR FIRE ALARM PLAN - AREA C1

DRAWN BY:	C. NEWELL
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1 LEVEL 1 - FIRE ALARM PLAN - AREA C2
1/8" = 1'-0"

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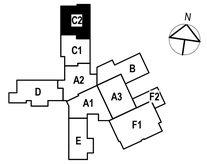

CONTENT:
FIRST FLOOR FIRE ALARM PLAN - AREA C2

DRAWN BY:	C. NEWELL
PROJECT NO:	12-067-00
DATE:	02/11/2016
REVISED:	
SCALE:	1/8" = 1'-0"

FA1.15

Project Phase
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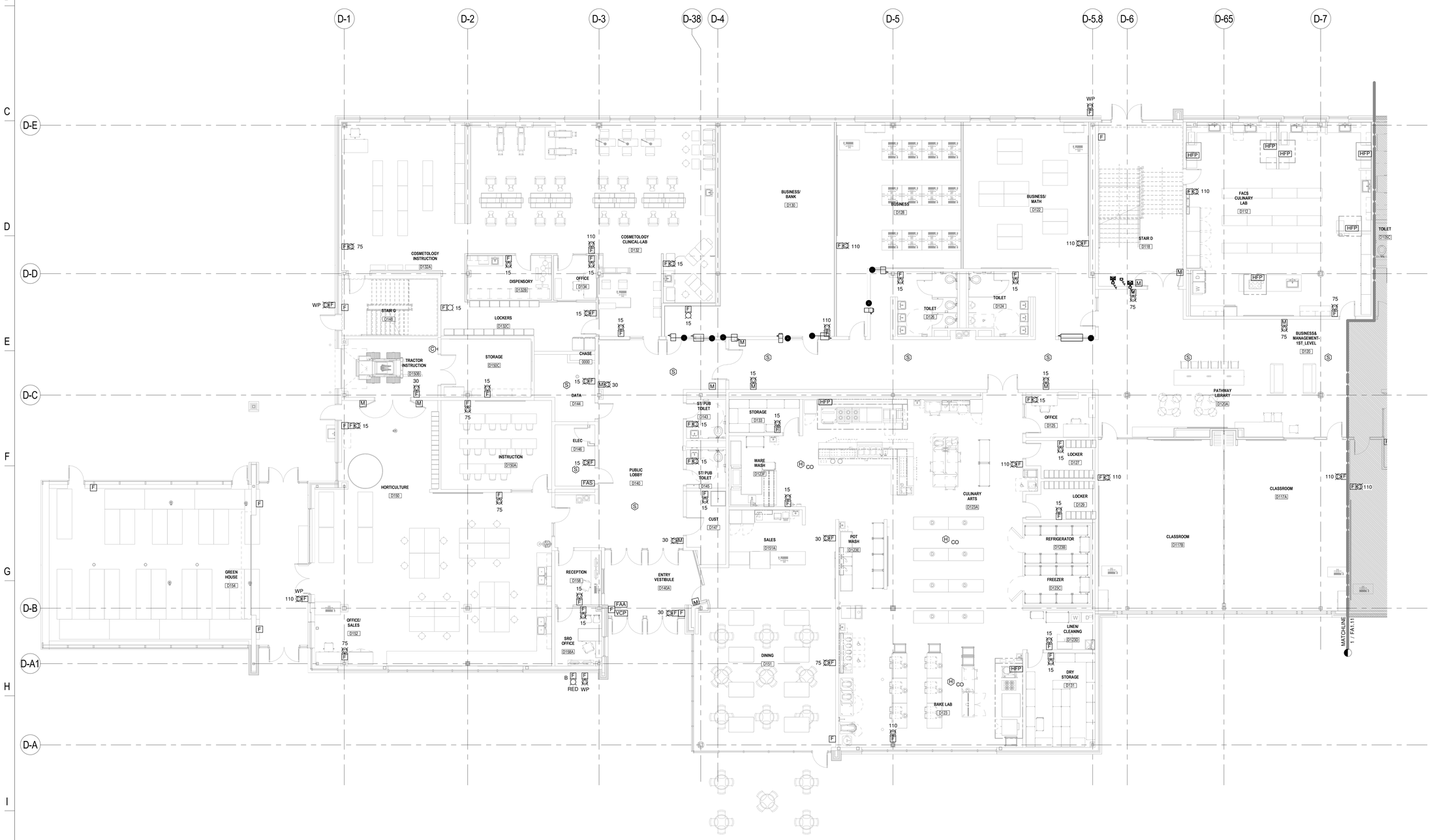
3. FOR TYPICAL DEVICE LOCATIONS DETAIL, REFER TO DRAWING E5.01.



1 LEVEL 1 - FIRE ALARM PLAN - AREA D
1/8" = 1'-0"

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NO.	DESCRIPTION	DATE

CONTENT:
FIRST FLOOR FIRE ALARM PLAN - AREA D

DRAWN BY:	C. NEWELL
PROJECT NO:	12-067-00
DATE:	02/11/2016
REVISED:	
SCALE:	1/8" = 1'-0"

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1 LEVEL 1 - FIRE ALARM PLAN - AREA E
1/8" = 1'-0"

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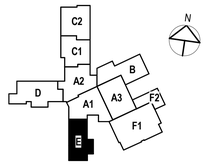

CONTENT:
FIRST FLOOR FIRE ALARM PLAN - AREA E

DRAWN BY:	C. NEWELL
PROJECT NO:	12-067-00
DATE:	02/11/2016
REVISED:	
SCALE:	1/8" = 1'-0"

FA1.17

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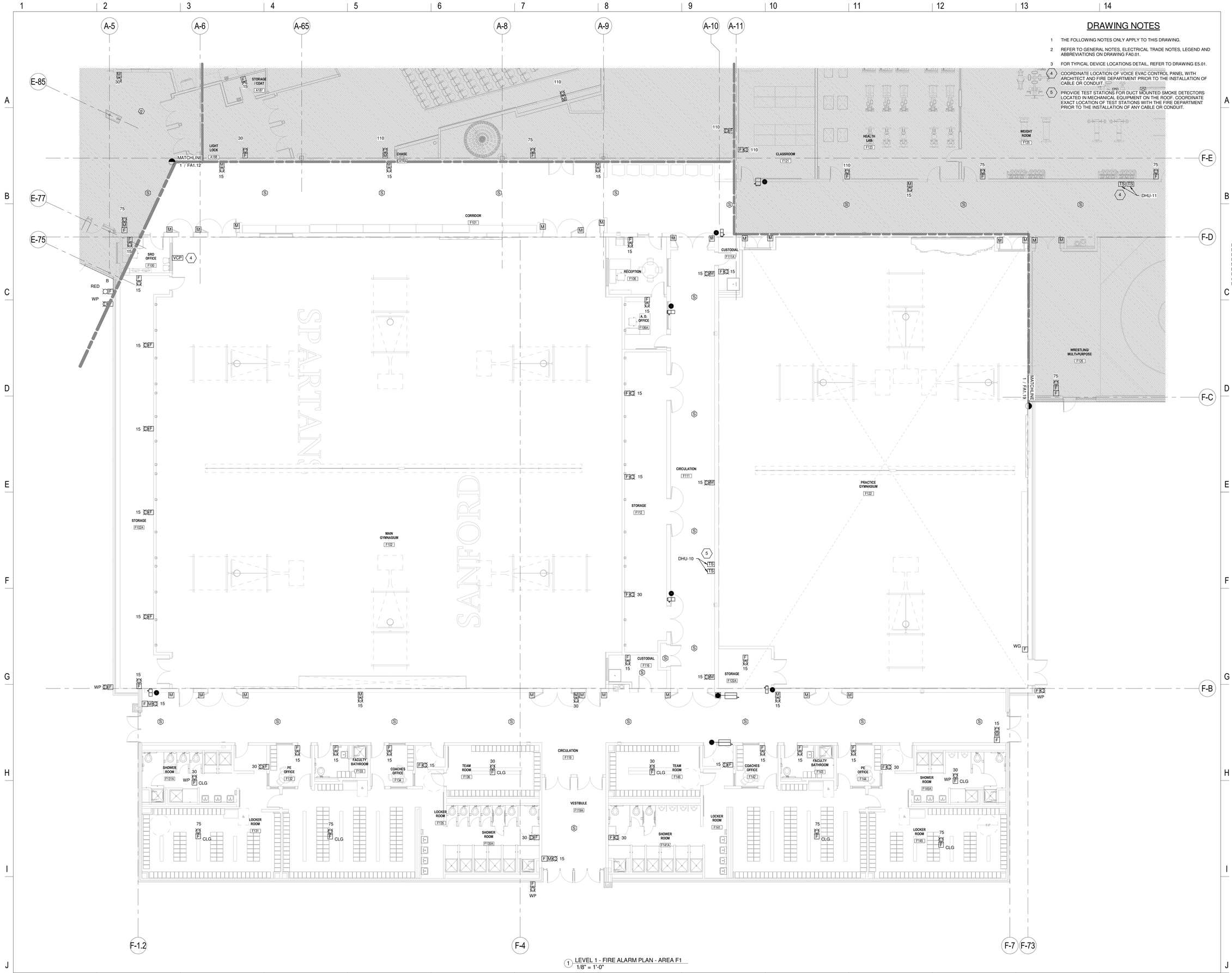

1 LEVEL 1 - FIRE ALARM PLAN - AREA F1
1/8" = 1'-0"

DRAWING NOTES

1 THE FOLLOWING NOTES ONLY APPLY TO THIS DRAWING.

2 REFER TO GENERAL NOTES, ELECTRICAL TRADE NOTES, LEGEND AND ABBREVIATIONS ON DRAWING FA0.01.

3 FOR TYPICAL DEVICE LOCATIONS DETAIL, REFER TO DRAWING E5.01.

4 COORDINATE LOCATION OF VOICE EVAC CONTROL PANEL WITH ARCHITECT AND FIRE DEPARTMENT PRIOR TO THE INSTALLATION OF CABLE OR CONDUIT.

5 PROVIDE TEST STATIONS FOR DUCT MOUNTED SMOKE DETECTORS LOCATED IN MECHANICAL EQUIPMENT ON THE ROOF. COORDINATE EXACT LOCATION OF TEST STATIONS WITH THE FIRE DEPARTMENT PRIOR TO THE INSTALLATION OF ANY CABLE OR CONDUIT.

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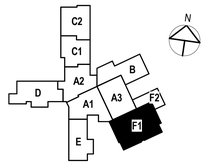

CONTENT:
FIRST FLOOR FIRE ALARM PLAN - AREA F1

DRAWN BY:	C. NEWELL
PROJECT NO:	12-067-00
DATE:	02/11/2016
REVISED:	
SCALE:	1/8" = 1'-0"

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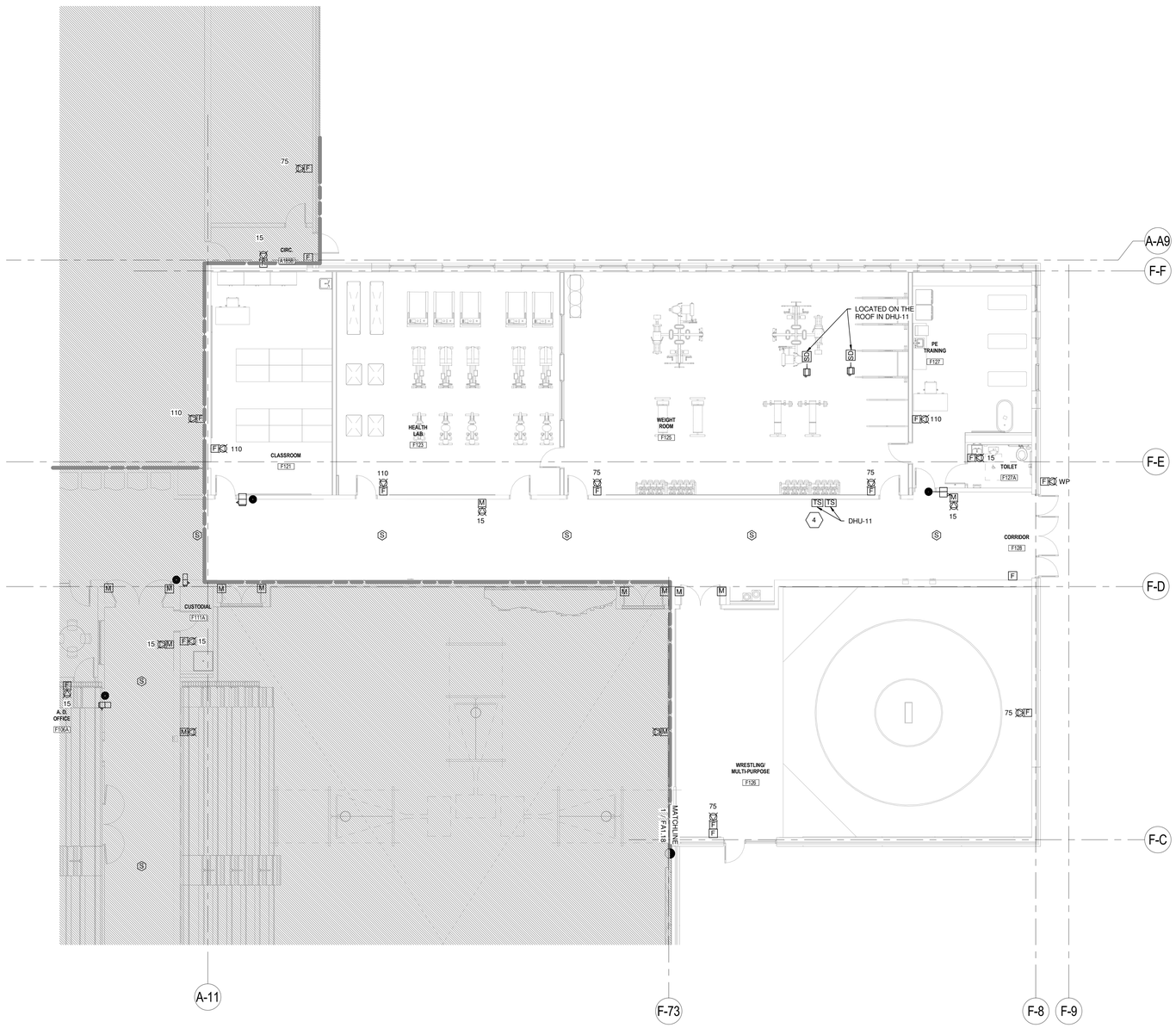

1 LEVEL 1 - FIRE ALARM PLAN - AREA F2
1/8" = 1'-0"

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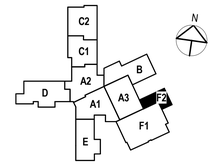

CONTENT:
FIRST FLOOR FIRE ALARM PLAN - AREA F2

DRAWN BY:	C. NEWELL
PROJECT NO:	12-067-00
DATE:	02/11/2016
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SCALE:	1/8" = 1'-0"

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(A-F1)

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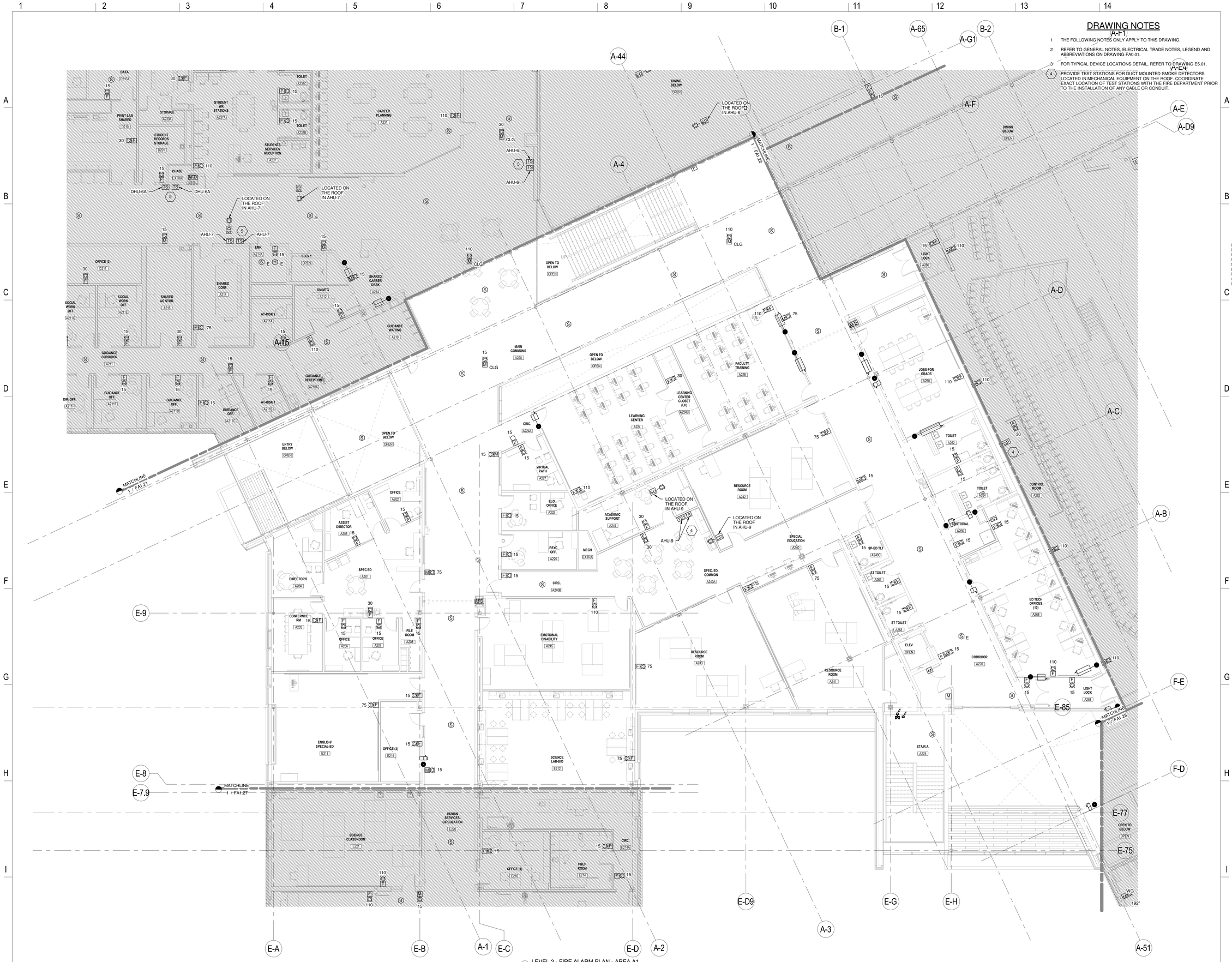
2. REFER TO GENERAL NOTES, ELECTRICAL TRADE NOTES, LEGEND AND ABBREVIATIONS ON DRAWING FA0.01.
3. FOR TYPICAL DEVICE LOCATIONS DETAIL, REFER TO DRAWING E5.01.
4. PROVIDE TEST STATIONS FOR DUCT MOUNTED SMOKE DETECTORS LOCATED IN MECHANICAL EQUIPMENT ON THE ROOF. COORDINATE EXACT LOCATION OF TEST STATIONS WITH THE FIRE DEPARTMENT PRIOR TO THE INSTALLATION OF ANY CABLE OR CONDUIT.



1 LEVEL 2 - FIRE ALARM PLAN - AREA A1
1/8" = 1'-0"

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C2 C1 A2 B D A1 A3 F2 F1 E

CONTENT:
SECOND FLOOR FIRE ALARM PLAN - AREA A1

DRAWN BY:	C. NEWELL
PROJECT NO:	12-067-00
DATE:	02/11/2016
REVISED:	
SCALE:	1/8" = 1'-0"

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3. FOR TYPICAL DEVICE LOCATIONS DETAIL, REFER TO DRAWING E5.01.
4. PROVIDE CONTROL MODULE TO CLOSE PROJECTOR SCREEN ON ALARM.
5. PROVIDE TEST STATIONS FOR DUCT MOUNTED SMOKE DETECTORS LOCATED IN MECHANICAL EQUIPMENT ON THE ROOF. COORDINATE EXACT LOCATION OF TEST STATIONS WITH THE FIRE DEPARTMENT PRIOR TO THE INSTALLATION OF ANY CABLE OR CONDUIT.

1 LEVEL 2 - FIRE ALARM PLAN - AREA A2
1/8" = 1'-0"

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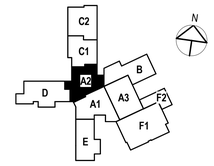

CONTENT:
SECOND FLOOR FIRE ALARM PLAN - AREA A2

DRAWN BY:	C. NEWELL
PROJECT NO:	12-067-00
DATE:	02/11/2016
REVISED:	
SCALE:	1/8" = 1'-0"

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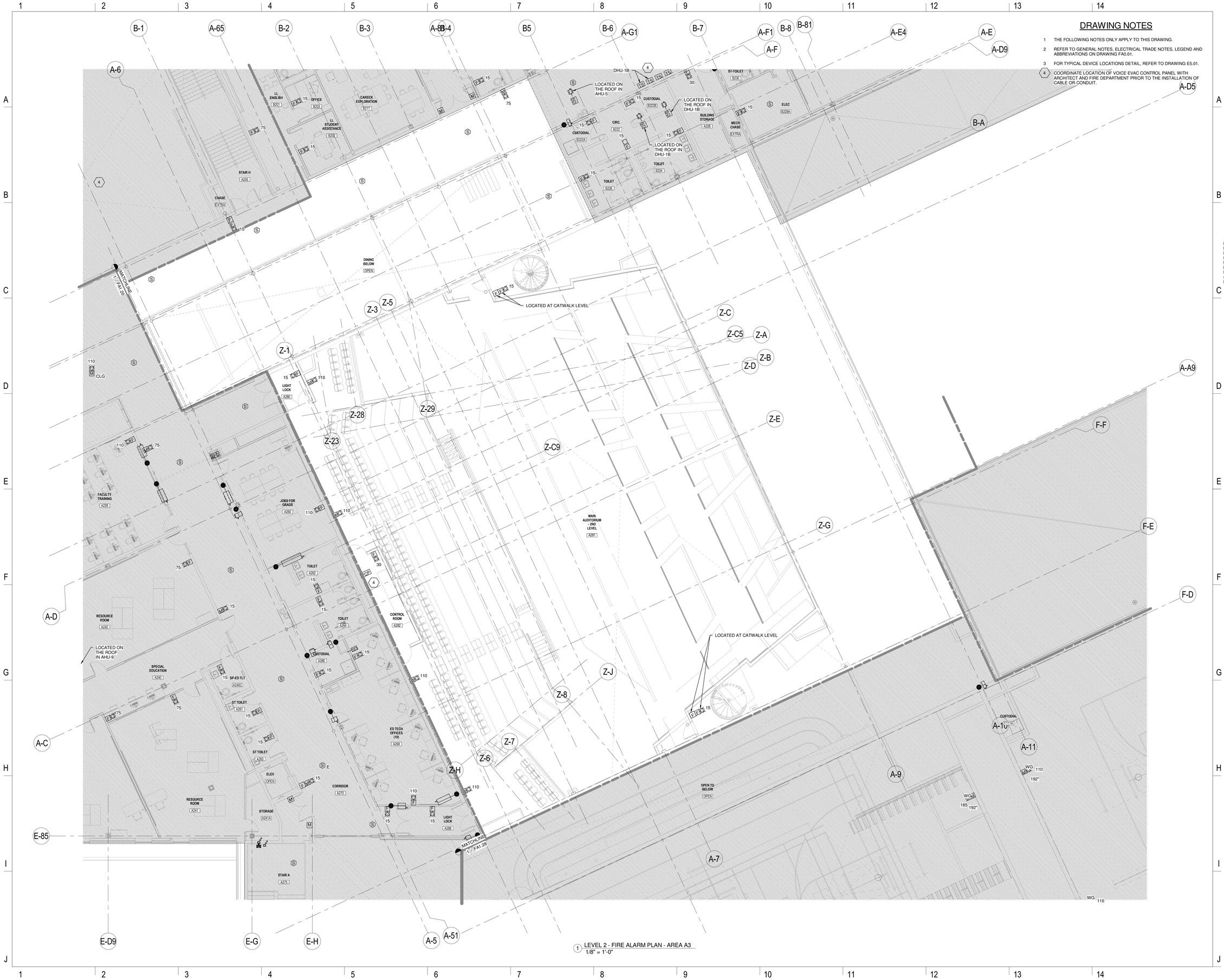

1 LEVEL 2 - FIRE ALARM PLAN - AREA A3
1/8" = 1'-0"

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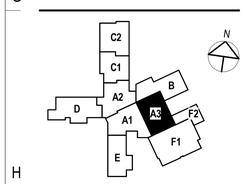

CONTENT:
SECOND FLOOR FIRE ALARM PLAN - AREA A3

DRAWN BY:	C. NEWELL
PROJECT NO:	12-067-00
DATE:	02/11/2016
REVISED:	
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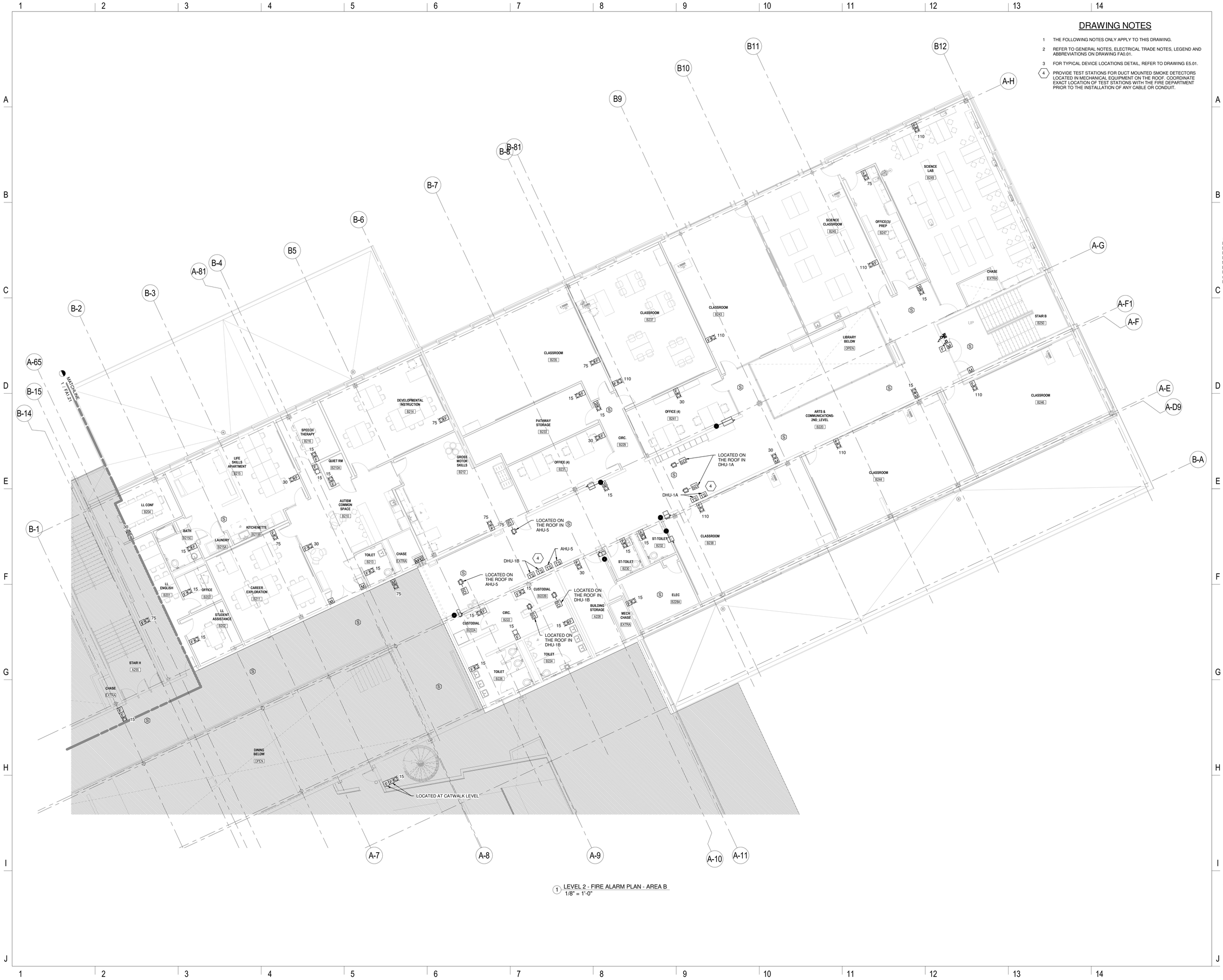

1 LEVEL 2 - FIRE ALARM PLAN - AREA B
1/8" = 1'-0"

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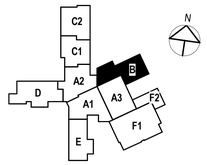

CONTENT:
SECOND FLOOR FIRE ALARM PLAN - AREA B

DRAWN BY:	C. NEWELL
PROJECT NO:	12-067-00
DATE:	02/11/2016
REVISED:	
SCALE:	1/8" = 1'-0"

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1 LEVEL 2 - FIRE ALARM PLAN - AREA C1
1/8" = 1'-0"

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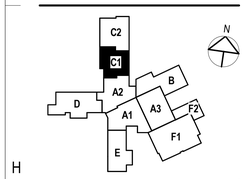

CONTENT:
SECOND FLOOR FIRE ALARM PLAN - AREA C1

DRAWN BY:	C. NEWELL
PROJECT NO:	12-067-00
DATE:	02/11/2016
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SCALE:	1/8" = 1'-0"

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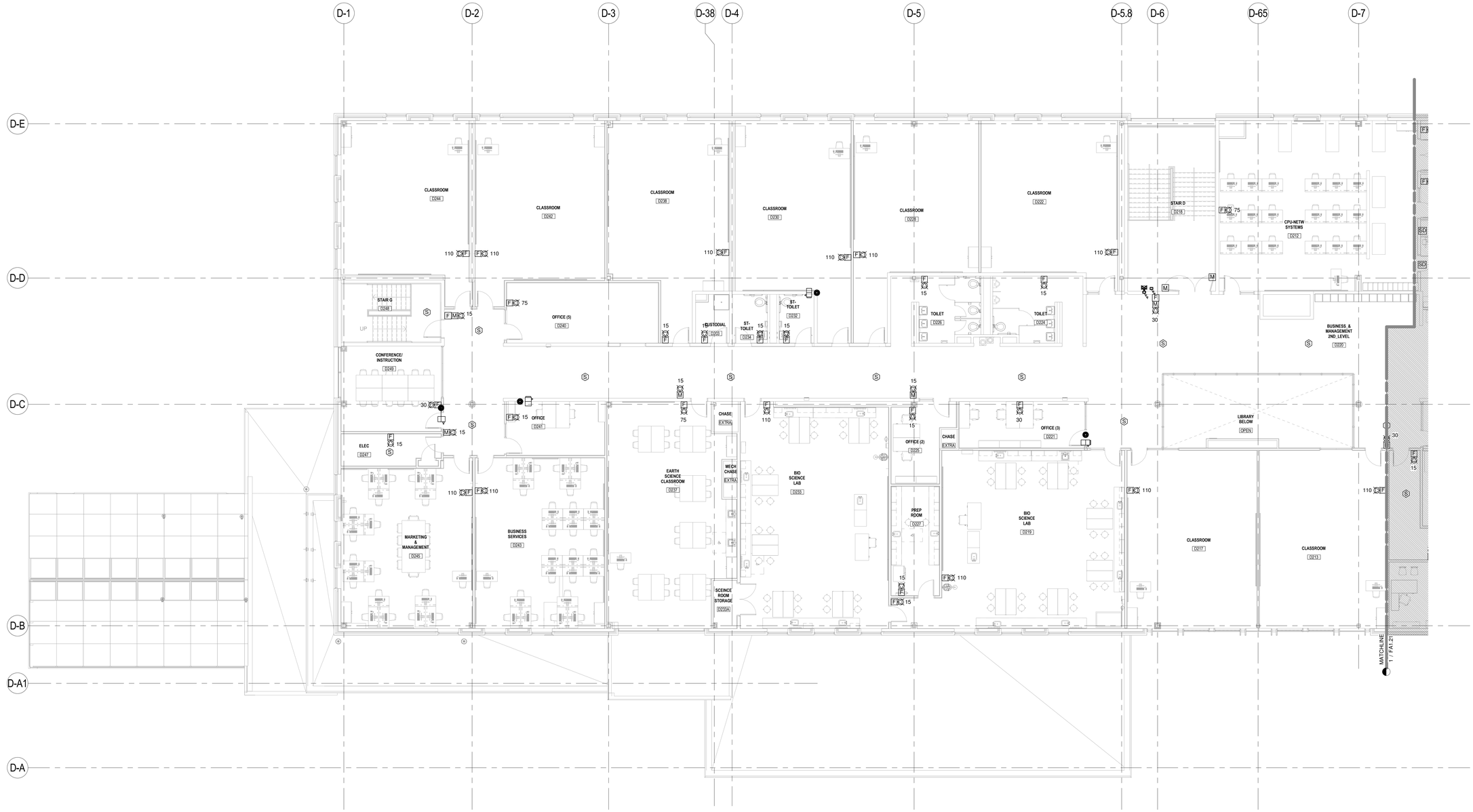

1 LEVEL 2 - FIRE ALARM PLAN - AREA D
1/8" = 1'-0"

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RFS Project #: 7300.001

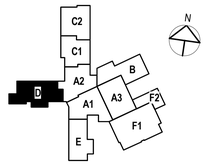
STATE OF MAINE CHRISTOPHER M. SHUMWAY No. 10697 LICENSED PROFESSIONAL ENGINEER

Sanford School Department and State of Maine Department of Education

SANFORD HIGH SCHOOL and TECHNICAL CENTER

SANFORD, ME 04073

NO.	DESCRIPTION	DATE



CONTENT:
SECOND FLOOR FIRE ALARM PLAN - AREA D

DRAWN BY:	C. NEWELL
PROJECT NO:	12-067-00
DATE:	02/11/2016
REVISED:	
SCALE:	1/8" = 1'-0"

FA1.26

Project Phase
BID DOCUMENTS

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1 LEVEL 2 - FIRE ALARM PLAN - AREA E
1/8" = 1'-0"

DRAWING NOTES

1. THE FOLLOWING NOTES ONLY APPLY TO THIS DRAWING.
2. REFER TO GENERAL NOTES, ELECTRICAL TRADE NOTES, LEGEND AND ABBREVIATIONS ON DRAWING FA0.01.
3. FOR TYPICAL DEVICE LOCATIONS DETAIL, REFER TO DRAWING E5.01.
4. ALL DEVICES FOR TRAINING PURPOSES SHALL BE LABELED FOR TRAINING.

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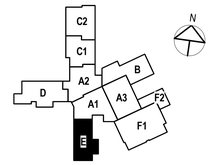

CONTENT:
SECOND FLOOR FIRE ALARM PLAN - AREA E

DRAWN BY:	C. NEWELL
PROJECT NO:	12-067-00
DATE:	02/11/2016
REVISED:	
SCALE:	1/8" = 1'-0"

FA1.27

Project Phase
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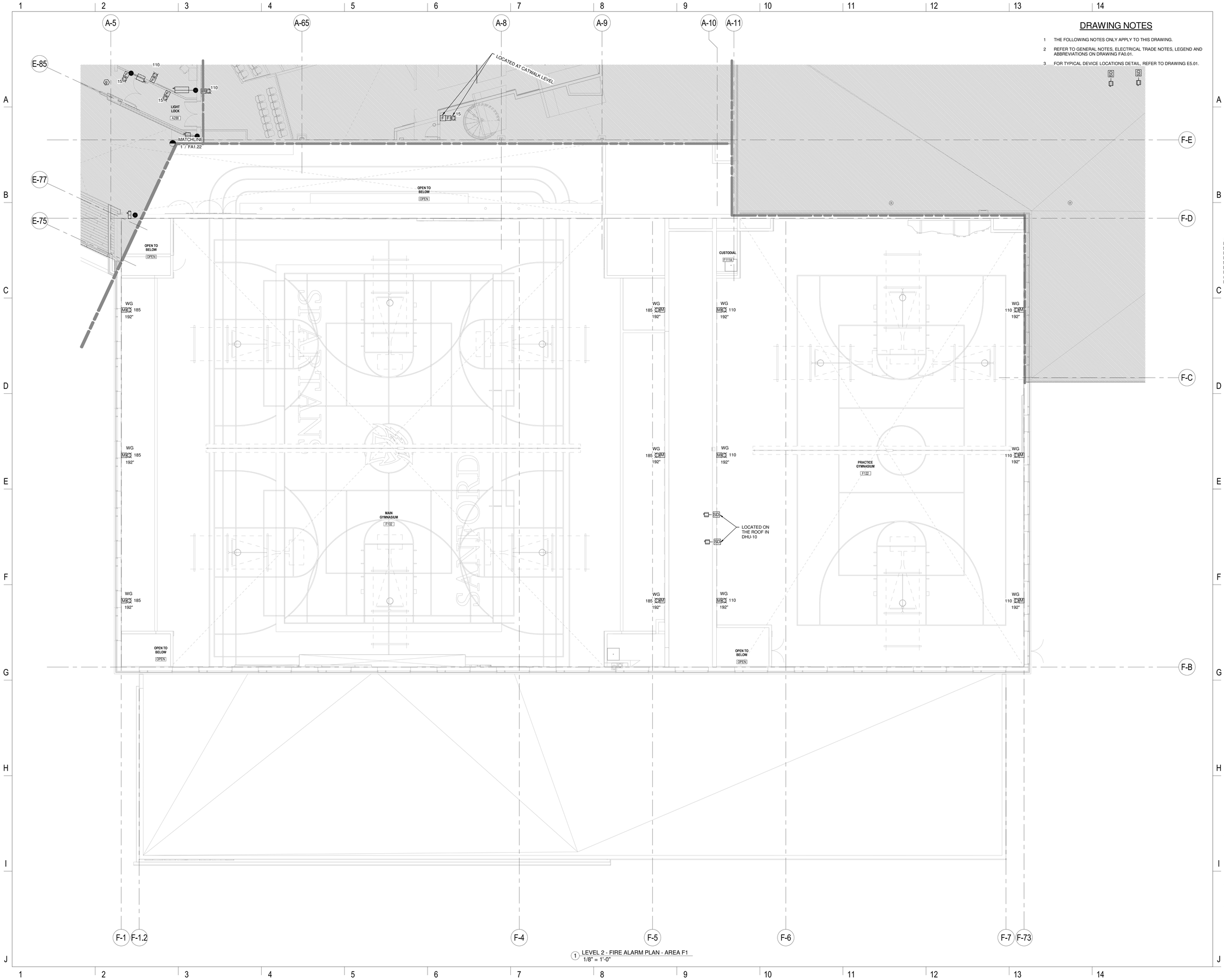
DRAWING NOTES

1. THE FOLLOWING NOTES ONLY APPLY TO THIS DRAWING.
2. REFER TO GENERAL NOTES, ELECTRICAL TRADE NOTES, LEGEND AND ABBREVIATIONS ON DRAWING FA0.01.
3. FOR TYPICAL DEVICE LOCATIONS DETAIL, REFER TO DRAWING E5.01.



1 LEVEL 2 - FIRE ALARM PLAN - AREA F1
1/8" = 1'-0"

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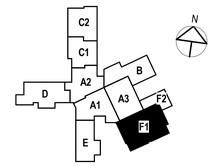
NO.	DESCRIPTION	DATE



CONTENT:
SECOND FLOOR FIRE ALARM PLAN - AREA F1

DRAWN BY:	C. NEWELL
PROJECT NO:	12-067-00
DATE:	02/11/2016
REVISED:	
SCALE:	1/8" = 1'-0"

FA1.28

Project Phase
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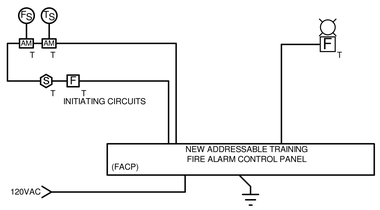
DRAWING NOTES

1 THE FOLLOWING NOTES ONLY APPLY TO THIS DRAWING.

2 REFER TO GENERAL NOTES, ELECTRICAL TRADE NOTES, LEGEND AND ABBREVIATIONS ON DRAWING FA0.01.

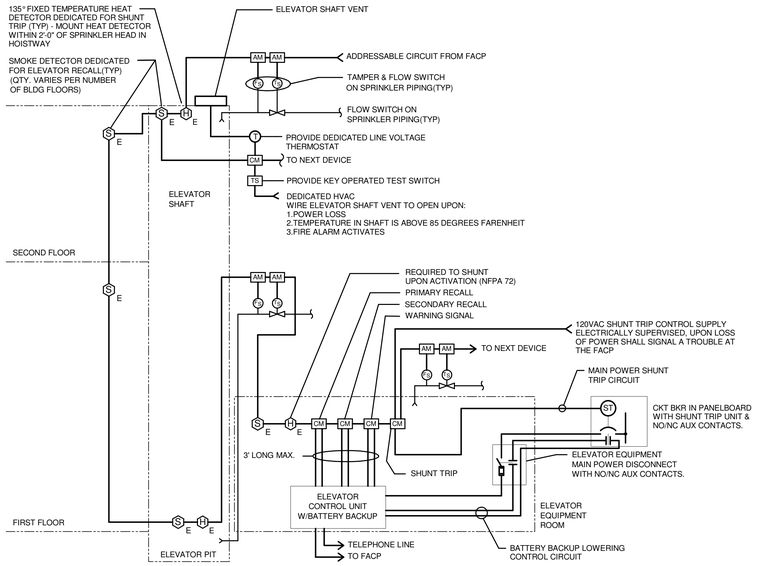


NOTES

1. THIS RISER DIAGRAM IS FOR REFERENCE PURPOSES ONLY. QUANTITY, LOCATION AND WIRING DISTANCES BETWEEN DEVICES SHALL BE DETERMINED FROM FLOOR PLANS.

2. THIS PANEL IS FOR TRAINING PURPOSES ONLY AND SHALL NOT CONNECT TO AN SYSTEM OR DEVICES OTHER THAN TRAINING DEVICES IN THE LOCAL AREA.

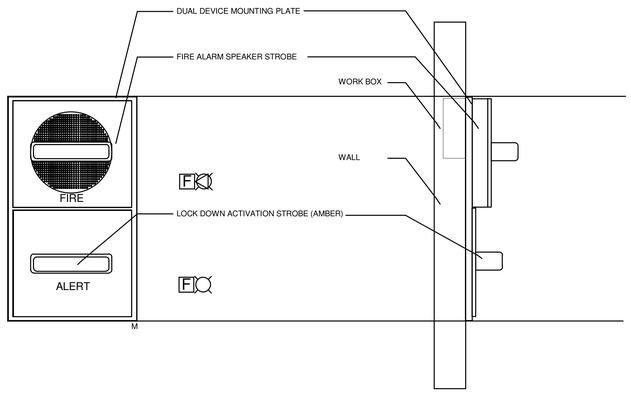
1 TRAINING FIRE ALARM RISER DIAGRAM
NOT TO SCALE



2 TYPICAL ELEVATOR/FIRE ALARM CONTROL WIRING DIAGRAM
NOT TO SCALE

ELEVATOR/FIRE ALARM NOTES:

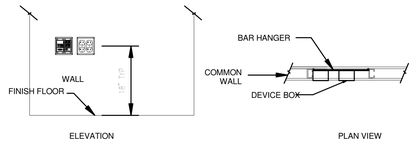
1. PROVIDE ONE(1) HEAT DETECTOR WITHIN 24" OF EACH SPRINKLER HEAD IN ELEVATOR SHAFT AND ELEVATOR MACHINE ROOM.



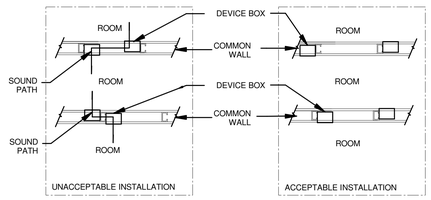
3 COMBINATION FIRE ALARM & LOCKDOWN NOTIFICATION DEVICE DETAIL
NOT TO SCALE

NOTES:

1. PROVIDE ONE(1) SINGLE-GANG WORK BOX. MOUNTING PLATE SHALL ACCOMMODATE BOTH DEVICES ON ONE WORK BOX.



MOUNTING OF ADJACENT ELECTRICAL AND TELECOMMUNICATIONS DEVICE BOXES



4 ACCEPTABLE DEVICE BOX MOUNTING LOCATION
NOT TO SCALE

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SANFORD, ME 04073

NO.	DESCRIPTION	DATE

CONTENT:
FIRE ALARM DETAILS

DRAWN BY:	C. NEWELL
PROJECT NO:	12-067-00
DATE:	02/11/2016
REVISED:	
SCALE:	AS NOTED

FA2.01

Project Phase
BID DOCUMENTS

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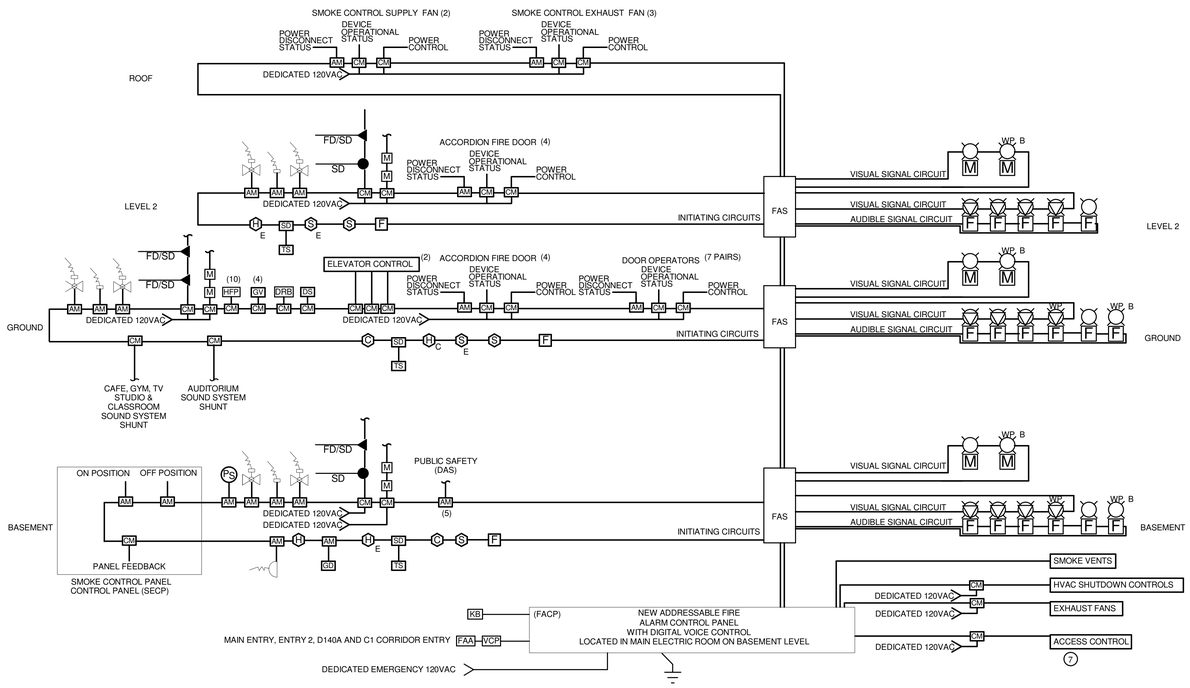
DRAWING NOTES

1 THE FOLLOWING NOTES ONLY APPLY TO THIS DRAWING.

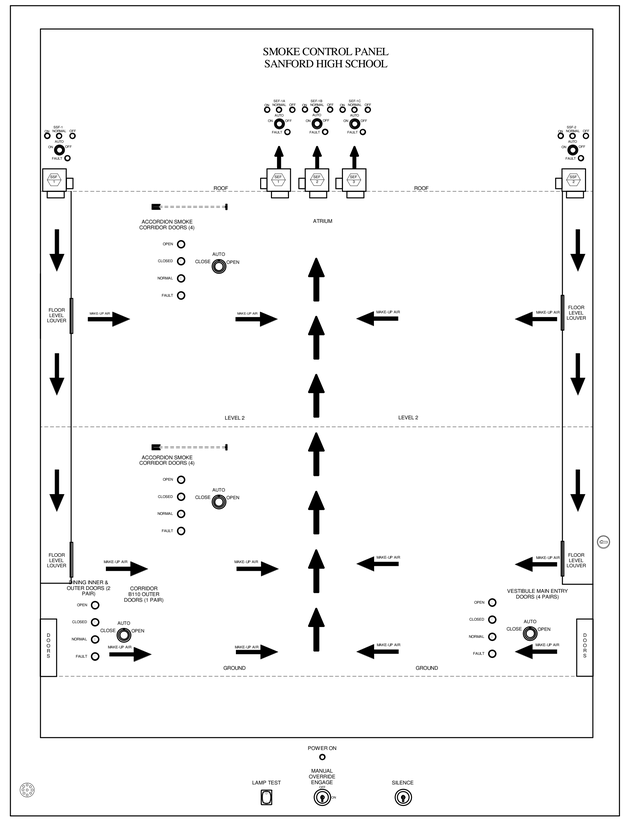
2 REFER TO GENERAL NOTES, ELECTRICAL TRADE NOTES, LEGEND AND ABBREVIATIONS ON DRAWING FA0.01.



NOTES

1. THIS RISER DIAGRAM IS FOR REFERENCE PURPOSES ONLY. QUANTITY, LOCATION AND WIRING DISTANCES BETWEEN DEVICES SHALL BE DETERMINED FROM FLOOR PLANS.
2. REFER TO DRAWING FA2.01 FOR TYPICAL ELEVATOR CONTROL WIRING DIAGRAM.
3. PROVIDE QUANTITY OF ANALOG ADDRESSABLE LOOPS AS REQUIRED FOR NUMBER OF DEVICES PLUS 20% SPARE AND WIRING DISTANCE LIMITATIONS.
4. PROVIDE QUANTITY OF SIGNAL CIRCUITS AS REQUIRED FOR NUMBER OF DEVICES PLUS 20% SPARE AND WIRING DISTANCE LIMITATIONS.
5. ALL MAGNETIC LOCK DEVICES AND ELECTRIC LATCHES SHALL RELEASE UPON FIRE ALARM ACTIVATION.
6. THE ELECTRICAL CONTRACTOR SHALL WIRE, 120VAC, AND CONTROL ALL SMOKE DAMPERS VIA SUPERVISED FIRE ALARM CONTROL MODULES.
7. FIRE ALARM CONTRACTOR SHALL COORDINATE WITH DOOR ACCESS CONTROL FOR CONTROL OF ALL EGRESS DOORS.

1 FIRE ALARM RISER DIAGRAM
NOT TO SCALE



2 SMOKE CONTROL SYSTEM PANEL DETAIL
NOT TO SCALE

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NO.	DESCRIPTION	DATE

CONTENT:
FIRE ALARM DETAILS

DRAWN BY:	C. NEWELL
PROJECT NO:	12-067-00
DATE:	02/11/2016
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SCALE:	AS NOTED

FA2.02

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TELECOMMUNICATIONS SYSTEM LEGEND

Symbol	Description

#T / #T/#D / #T/#D/#C	TELEPHONE/DATA/CABLE OUTLET LOCATION, (T=TELEPHONE,D=DATA,C=CABLE) MH=18"AFF, UON. DOUBLE GANG OUTLET BOX WITH 1"C TO SPACE ABOVE ACCESSIBLE CEILING. PROVIDE SINGLE GANG PLASTER RING. # INDICATES TOTAL NUMBER OF JACKS AND CABLES REQUIRED. (#)"=MOUNTING HEIGHT ABOVE FINISH FLOOR
	IWB = INTERACTIVE WHITE BOARD
	S = SECURITY CAMERA
	BAS = BUILDING AUTOMATION SYSTEM PANEL
	LCP = LIGHTING CONTROL PANEL
	FACP = FIRE ALARM CONTROL PANEL
	NAB = NOTIFICATION ANNUNCIATOR BEACON
	A/V = AUDIO VISUAL

O A	RECESSED FLOOR BOX WITH FLUSH COVER PLATE, ROUTE CONDUITS IN FLOOR SLAB, SUBSCRIPT DENOTES FLOOR BOX TYPE, REFER TO FLOOR BOX SCHEDULE
O B	POKE THRU FLOOR BOX WITH FLUSH COVER PLATE, ROUTE CONDUITS IN ACCESSIBLE CEILING BELOW, SUBSCRIPT DENOTES FLOOR BOX TYPE, REFER TO FLOOR BOX SCHEDULE
	TWO SECTION SURFACE RACEWAY. ■ INDICATES RECEPTACLE LOCATION IN RACEWAY, UON
#T/#D	TELEPHONE/DATA OUTLET LOCATION MOUNTED IN SURFACE RACEWAY OR POWERPOLE. # INDICATES TOTAL NO. OF JACKS AND CABLES REQUIRED. #T = TELEPHONE, #D = DATA
	4" SQUARE RECESSED OUTLET BOX MOUNTED BEHIND SURFACE RACEWAY WITH TWO(2) 1"CONDUITS TO SPACE ABOVE ACCESSIBLE CEILING FOR DATA AND TELEPHONE AS INDICATED ON DRAWINGS
▼	TELEPHONE OUTLET LOCATION, MH=48"AFF, UON W = WALL MOUNTED B = BLUE LIGHT SECURITY PHONE C = COURTESY PHONE
	FLOOR MOUNTED 2 POST EQUIPMENT RACK
	FLOOR MOUNTED 4 POST EQUIPMENT RACK
	WALL MOUNTED EQUIPMENT RACK
WAP	PROVIDE TWO (2) CATEGORY 6A CABLE WITH 20' SERVICE COIL TERMINATED IN FACEPLATES ABOVE CEILING FOR WIRELESS ACCESS POINT. WG = WIRE GUARD PROVIDED BY OWNER INSTALLED BY CONTRACTOR
	BASKET TYPE CABLE TRAY, SIZE INDICATED ON PLAN, SEE SPECIFICATION FOR TYPE
	TELCOM ROOM SERVING ZONE BOUNDARY LINE
J J J	PROPOSED J-HOOK ROUTING (MAJOR RUNS) ADDITIONAL J-HOOKS REQUIRED FOR CABLES TO INDIVIDUAL JACKS
CATV	CATV EQUIPMENT LOCATION
TEL	TELEPHONE EQUIPMENT LOCATION
ELT	PROVIDE DEDICATED TELEPHONE LINE FOR CONNECTION TO ELEVATOR CONTROLLER. COORDINATE WITH ELEVATOR CONTRACTOR FOR SLACK LENGTH TO ACCOMMODATE SYSTEM.
	PLYWOOD BACKBOARD
TMGB	TELECOMMUNICATIONS MAIN GROUNDING BUSBAR
TGB	TELECOMMUNICATIONS GROUNDING BUSBAR
XX LCD	LCD DISPLAY LOCATION - XX INDICATES HEIGHT AFF REFER TO WALL BOX SCHEDULE FOR MORE INFORMATION
A1	AUDIO VISUAL INPUT LOCATION, MH = 18" AFF, UON. DOUBLE GANG OUTLET BOX 2.75" DEEP WITH 1-1/4" & 3/4"C TO SPACE ABOVE CEILING AND BLANK THERMOPLASTIC COVERPLATE. PROVIDE SINGLE GANG PLASTER RING
A2	PROJECTOR AUDIO VISUAL OUTLET MOUNTED ABOVE WHITE BOARD OR AT CEILING SEE PLANS FOR LOCATION. DOUBLE GANG BOX 2.75" DEEP WITH 1-1/4"CONDUIT AND 3/4"CONDUIT TO ABOVE ACCESSIBLE CEILING PROVIDE DOUBLE GANG PLASTER RING
A3	AUDIO VISUAL INPUT FOR LCD DISPLAY, MH = 18" AFF, UON. DOUBLE GANG OUTLET BOX 2.75" DEEP WITH 1-1/4" & 3/4"C TO SPACE ABOVE CEILING AND BLANK THERMOPLASTIC COVERPLATE. PROVIDE SINGLE GANG PLASTER RING

AUDIO VISUAL LEGEND

Symbol	Description
AVR##	AUDIO VISUAL RACK *** ## = REFER TO HIGH OUTPUT DRAWINGS FOR MORE INFORMATION
DR1	LIGHTING DIMMER RACK ***
RP1	EMERGENCY RELAY PANEL ***
PP1	THEATER PANEL ***
PP2	THEATER PANEL ***
FB##	AUDIO VISUAL FLOOR BOX *** ## = REFER TO HIGH OUTPUT DRAWINGS FOR MORE INFORMATION

(*** = PROVIDED BY OTHERS, INSTALLED AND CONNECTED BY ELECTRICAL CONTRACTOR)

ABBREVIATIONS

AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AHU	AIR HANDLING UNIT *
C	COUNTER HEIGHT
CLG	CEILING MOUNTED
CUH	CABINET UNIT HEATER *
DN	DOWN
DWG	DRAWING
EC	ELECTRICAL CONTRACTOR
EF	EXHAUST FAN *
EHH	ELECTRICAL HANDHOLE
EMH	ELECTRICAL MANHOLE
FB	FAN BOX *
FIBO	FURNISHED AND INSTALLED BY OWNER/OTHERS
HOA	HAND-OFF-AUTO SELECTOR SWITCH
HP	HORSEPOWER
LOR	LOCATED ON ROOF
MC	MECHANICAL CONTRACTOR
MCB	MAIN CIRCUIT BREAKER
MD	MOTORIZED DOOR **
MH	MOUNTING HEIGHT
NTS	NOT TO SCALE
OD	OVERHEAD DOOR **
OFCI	OWNER FURNISHED CONTRACTOR INSTALLED
PC	PLUMBING CONTRACTOR
PUH	PROPELLER UNIT HEATER *
RF	RETURN FAN *
RTU	ROOF TOP UNIT *
SF	SUPPLY FAN *
SPCP	SEWAGE PUMP CONTROL PANEL
S/S	START/STOP PUSH BUTTONS
S. STL	STAINLESS STEEL
THH	TELECOMMUNICATIONS HANDHOLE
TMH	TELECOMMUNICATIONS MANHOLE
TYP	TYPICAL
UON	UNLESS OTHERWISE NOTED
VP	VANDAL PROOF
WPCP	WELL PUMP CONTROL PANEL
WG	WIRE GUARD
WP	WEATHER PROOF
WUH	WALL MOUNTED UNIT HEATER *
*	EQUIPMENT PROVIDED BY MECHANICAL TRADE, WIRED BY ELECTRICAL TRADE
**	EQUIPMENT PROVIDED BY DOOR HARDWARE TRADE, WIRED BY ELECTRICAL TRADE

TELECOMMUNICATION TRADE NOTES

1. ALL TELECOMMUNICATION WORK SHALL BE PERFORMED IN ACCORDANCE WITH ALL APPLICABLE NATIONAL, STATE AND LOCAL CODES AND STANDARDS, INCLUDING ALL ANSI/TIA/EIA STANDARDS RELATED TO TELECOMMUNICATION CABLING SYSTEMS AND THE CURRENT NATIONAL ELECTRICAL CODE (NEC). ALL WORK SHALL BE PERFORMED BY CERTIFIED/REGISTERED TELECOMMUNICATION TECHNICIANS AND RELATED ELECTRICAL WORK SHALL BE PERFORMED BY ELECTRICIANS LICENSED BY THE STATE IN WHICH THE WORK IS PERFORMED.
2. THE TELECOMMUNICATION CONTRACTOR SHALL VERIFY THE EXACT LOCATION AND ELECTRICAL REQUIREMENTS OF ALL EQUIPMENT PRIOR TO INSTALLING ANY CONDUIT AND/OR CABLE. IF TELECOMMUNICATION REQUIREMENTS DIFFER FROM THOSE INDICATED, OR IF ADDITIONAL EQUIPMENT IS REQUIRED BY CODE, INFORM THE ENGINEER.
3. ALL TELECOMMUNICATION HORIZONTAL CABLING CIRCUITS FROM THE MDF/IDF TO THE WALL OUTLET SHALL BE A SINGLE HOMERUN WITH NO SPLICES. CABLING LENGTH SHALL NOT EXCEED 295'(90M).
4. MOUNTING HEIGHTS GIVEN FOR ALL TELECOMMUNICATION DEVICES ARE TO THE CENTERLINE OF THE JUNCTION BOX USED TO MOUNT THE DEVICE, UNLESS OTHERWISE NOTED.
5. CABLING INDICATED ON DRAWINGS IS SCHEMATIC IN NATURE AND SHALL NOT BE CONSIDERED TO BE POINT-TO-POINT, UNLESS OTHERWISE NOTED.
6. PROVIDE AND ENSURE PROPER FIREPROOFING OF ALL TELECOMMUNICATION CONDUITS AND CABLING THROUGH FIRE RATED ASSEMBLIES.
7. PROVIDE PULL STRINGS IN ALL CONDUIT SYSTEMS LEFT FOR USE BY OTHERS.
8. MOUNTING HEIGHT FOR TELECOMMUNICATION DEVICES LOCATED ON EXTERIOR WALLS ABOVE FINTUBE SHALL BE 4" FROM TOP OF FINTUBE ENCLOSURE TO CENTERLINE OF TELECOMMUNICATION DEVICE.
9. ALL COMPONENTS SHOWN ON RISER, BUT NOT SHOWN ON PLANS OR SPEC OR VICE VERSA SHALL BE INCLUDED AS IF LISTED IN ALL DOCUMENTS.
10. CABLE ROUTING SHALL BE COORDINATED WITH OTHER TRADES. CABLES SHALL ALSO BE ACCESSIBLY ROUTED PARALLEL TO BUILDING COLUMN LINES, AND ALL BENDS SHALL BE 90 DEGREES AND MUST ADHERE TO CABLE BEND RADIUS LIMITATIONS, PER STANDARDS OUTLINED IN THE WRITTEN SPECIFICATION.
11. CONTRACTOR TO VERIFY ALL MEASUREMENTS PRIOR TO INSTALLATION OF NEW EQUIPMENT CABLING.

GENERAL NOTES

THE FOLLOWING GENERAL NOTES APPLY TO ALL RIST-FROST-SHUMWAY ENGINEERING, P.C., DRAWINGS AND TRADES ASSOCIATED WITH THOSE DRAWINGS INVOLVED ON THIS PROJECT:

G-1 RIST-FROST-SHUMWAY ENGINEERING, P.C., WAIVES ANY AND ALL RESPONSIBILITY AND LIABILITY FOR PROBLEMS WHICH ARISE FROM FAILURE TO FOLLOW THESE PLANS, SPECIFICATIONS AND/OR THE DESIGN INTENT THEY CONVEY, OR FOR PROBLEMS WHICH ARISE FROM OTHERS' FAILURE TO OBTAIN AND/OR FOLLOW THE GUIDANCE OF RIST-FROST-SHUMWAY ENGINEERING, P.C., WITH RESPECT TO ANY ERRORS, OMISSIONS, INCONSISTENCIES, AMBIGUITIES OR CONFLICTS WHICH ARE DISCOVERED OR ALLEGED.

G-2 ALL WORK SHALL CONFORM TO ALL FEDERAL, STATE, AND LOCAL CODES AND STANDARDS INCLUDING, BUT NOT LIMITED TO: NFPA, IBC, UL, SMACNA, OSHA, AND NEC.

G-3 THE CONTRACTOR AND ALL SUBCONTRACTORS SHALL PROTECT THE WORK SITE, SURROUNDING AREAS AND OCCUPANTS FROM DAMAGE AND INJURY.

G-4 THE CONTRACTOR AND ALL SUBCONTRACTORS SHALL FAMILIARIZE THEMSELVES WITH THE CONTRACT DOCUMENTS. ALL DRAWINGS OF ANY PARTICULAR TRADE SHALL BE USED IN CONJUNCTION WITH DRAWINGS OF ALL OTHER TRADES TO COORDINATE ALL CONSTRUCTION. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER BEFORE PROCEEDING WITH THE AFFECTED WORK. ANY PROPOSED CHANGES, VARIATIONS OR SUBSTITUTIONS MUST BE REVIEWED AND ACCEPTED BY THE ENGINEER PRIOR TO IMPLEMENTATION.

G-5 ALL DRAWINGS ARE INTENDED TO SHOW THE GENERAL ARRANGEMENT, DESIGN INTENT AND EXTENT OF THE WORK. THEY SHALL BE CONSIDERED PARTLY DIAGRAMMATIC. THEY ARE NOT INTENDED TO BE SCALED FOR ROUGHING-IN MEASUREMENTS OR TO SERVE AS SHOP DRAWINGS.

G-6 THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL DIMENSIONS (AS-BUILT OR OTHERWISE) BEFORE COMMENCING FABRICATION, AND/OR ORDERING MATERIALS.

G-7 DETAILS SHOWN ON ANY DRAWING ARE TO BE CONSIDERED TYPICAL FOR ALL SIMILAR CONDITIONS, UNLESS OTHERWISE INDICATED.

G-8 INFORMATION ON THESE DRAWINGS PERTAINING TO AS-BUILT CONSTRUCTION AND OTHER EXISTING CONDITIONS HAVE BEEN OBTAINED FROM OTHER DOCUMENTATION OR BY FIELD INVESTIGATION. (SEE GENERAL AND SUPPLEMENTAL CONDITIONS FOR LISTING). THIS INFORMATION IS PROVIDED FOR THE CONTRACTOR'S BENEFIT IN PERFORMANCE OF THE WORK.

G-9 IN THE EVENT THE CONTRACTOR ENCOUNTERS MATERIAL REASONABLY BELIEVED TO BE HAZARDOUS WHICH HAS NOT BEEN RENDERED HARMLESS, THE CONTRACTOR SHALL IMMEDIATELY STOP WORK IN THE AREA AFFECTED AND REPORT THE CONDITION TO THE OWNER AND ARCHITECT/ENGINEER IN WRITING. THE WORK IN THE AFFECTED AREA SHALL NOT BE RESUMED UNTIL WRITTEN VERIFICATION BY THE OWNER THAT THE MATERIAL HAS BEEN REMOVED OR OTHERWISE BEEN RENDERED HARMLESS.

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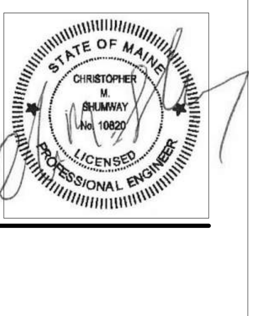

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SANFORD HIGH SCHOOL and TECHNICAL CENTER

SANFORD, ME 04073

NO.	DESCRIPTION	DATE

CONTENT:

TELECOMMUNICATIONS SYMBOLS LEGEND AND TRADE NOTES

DRAWN BY:	C. NEWELL
PROJECT NO:	12-067-00
DATE:	02/11/2016
REVISED:	
SCALE:	NO SCALE

T0.01

Project Phase

BID DOCUMENTS

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2/9/2016 3:33:50 PM C:\Users\cm906\Desktop\DRAWINGS\REVIT MEP\7300 (2016 FORMAT)\7300 Central Elect 2016.rvt

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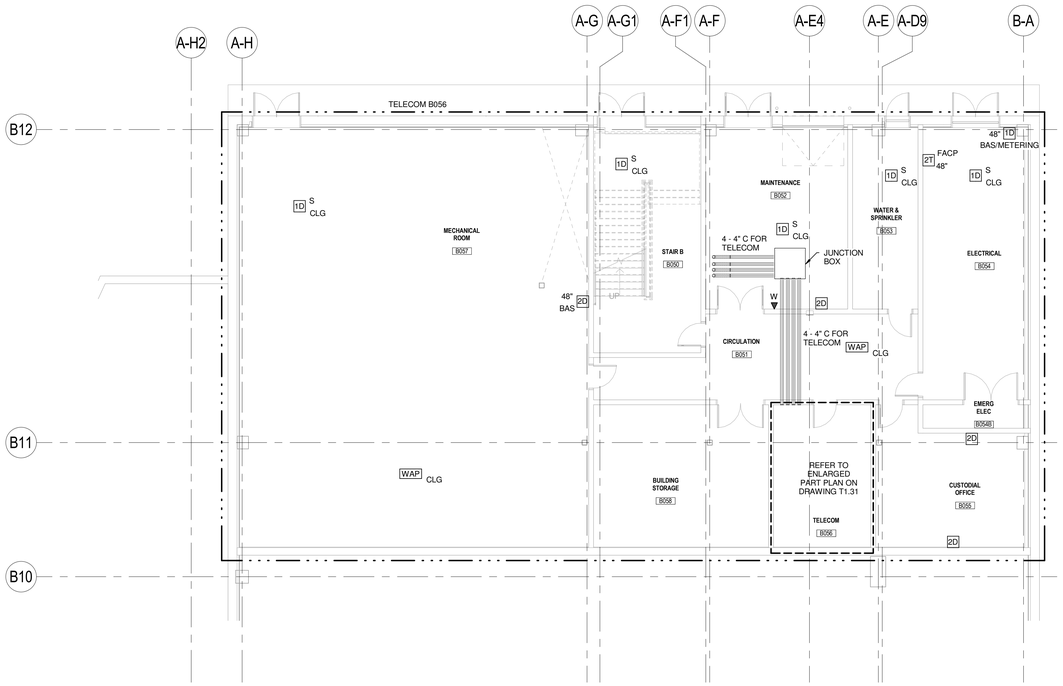
2 REFER TO GENERAL NOTES, ELECTRICAL TRADE NOTES, LEGEND AND ABBREVIATIONS ON DRAWING T0.01.



1 BASEMENT - TELECOMMUNICATIONS PLAN
1/8" = 1'-0"

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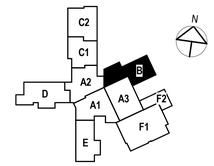
SANFORD, ME 04073

NO.	DESCRIPTION	DATE



CONTENT:
BASEMENT TELECOMMUNICATIONS PLAN

DRAWN BY:	C. NEWELL
PROJECT NO:	12-067-00
DATE:	02/11/2016
REVISED:	
SCALE:	1/8" = 1'-0"

T1.09

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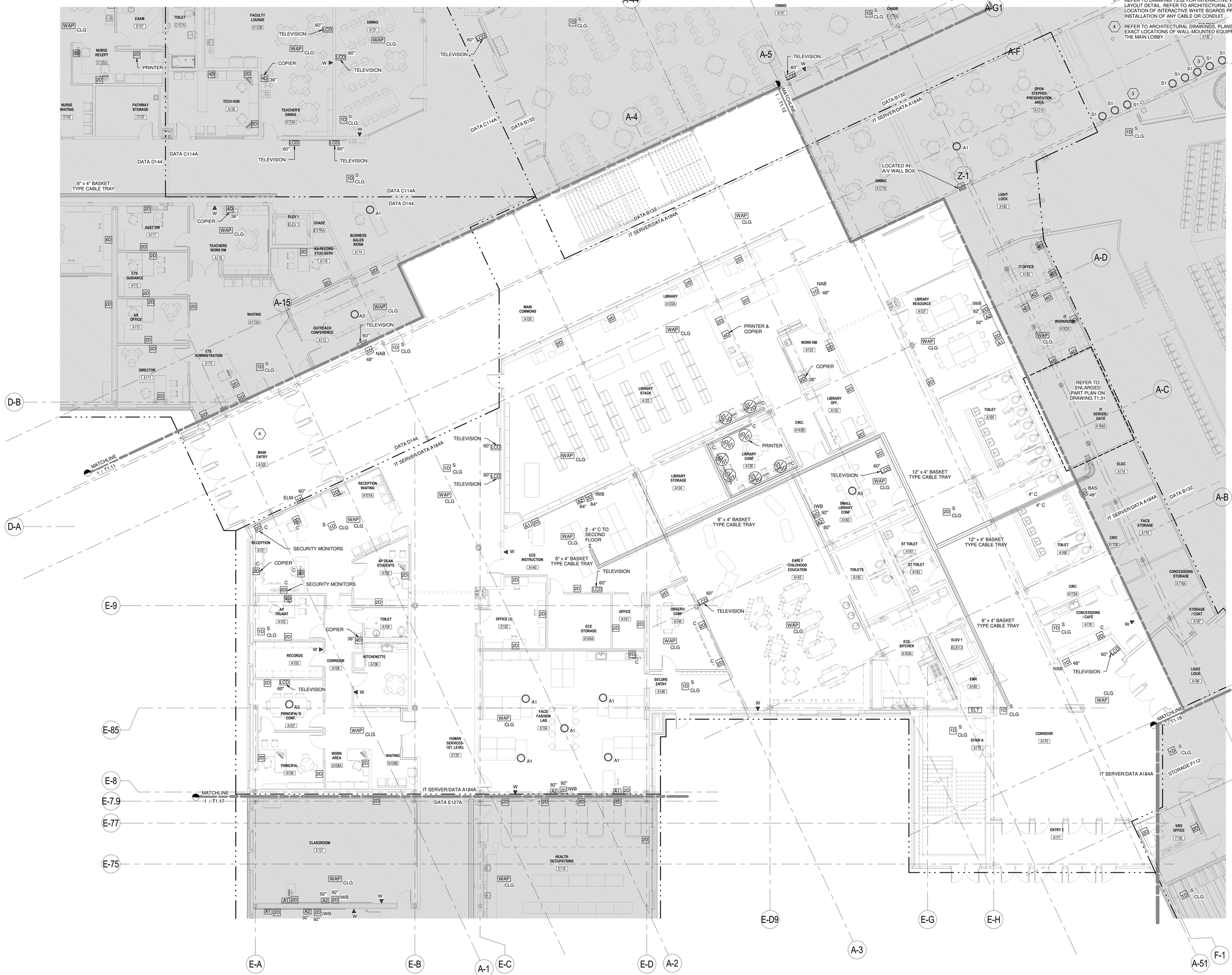
DRAWING NOTES
(A-F1)

1 THE FOLLOWING NOTES ONLY APPLY TO THIS DRAWING.

2 REFER TO GENERAL NOTES, ELECTRICAL TRADE NOTES, LEGEND AND ABBREVIATIONS ON DRAWING T0.01.

3 REFER TO DRAWING T3.02 FOR INTERACTIVE WHITE BOARD OUTLET LAYOUT DETAIL. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATION OF INTERACTIVE WHITE BOARDS PRIOR TO THE INSTALLATION OF ANY CABLE OR CONDUIT.

4 REFER TO ARCHITECTURAL DRAWINGS, PLANS AND ELEVATIONS, FOR EXACT LOCATIONS OF WALL-MOUNTED EQUIPMENT AND LIGHTING IN THE MAIN LOBBY.



1 LEVEL 1 - TELECOMMUNICATIONS PLAN - AREA A1
1/8" = 1'-0"

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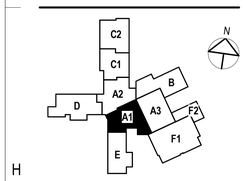

CONTENT:
FIRST FLOOR TELECOMMUNICATIONS PLAN - AREA A1

DRAWN BY:	C. NEWELL
PROJECT NO:	12-067-00
DATE:	02/11/2016
REVISED:	
SCALE:	1/8" = 1'-0"

T1.10

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2. REFER TO GENERAL NOTES, ELECTRICAL TRADE NOTES, LEGEND AND ABBREVIATIONS ON DRAWING T0.01.
3. COORDINATE BAS NETWORK OUTLETS WITH COOLER INSTALLATION CONTRACTOR PRIOR TO INSTALLATION.
4. REFER TO DRAWING T3.02 FOR INTERACTIVE WHITE BOARD OUTLET LAYOUT DETAIL. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATION OF INTERACTIVE WHITE BOARDS PRIOR TO THE INSTALLATION OF ANY CABLE OR CONDUIT.

1 LEVEL 1 - TELECOMMUNICATIONS PLAN - AREA A2
1/8" = 1'-0"

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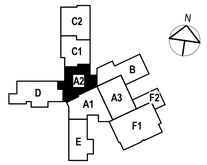
NO.	DESCRIPTION	DATE



CONTENT:
FIRST FLOOR TELECOMMUNICATIONS PLAN - AREA A2

DRAWN BY:	C. NEWELL
PROJECT NO:	12-067-00
DATE:	02/11/2016
REVISED:	
SCALE:	1/8" = 1'-0"

T1.11

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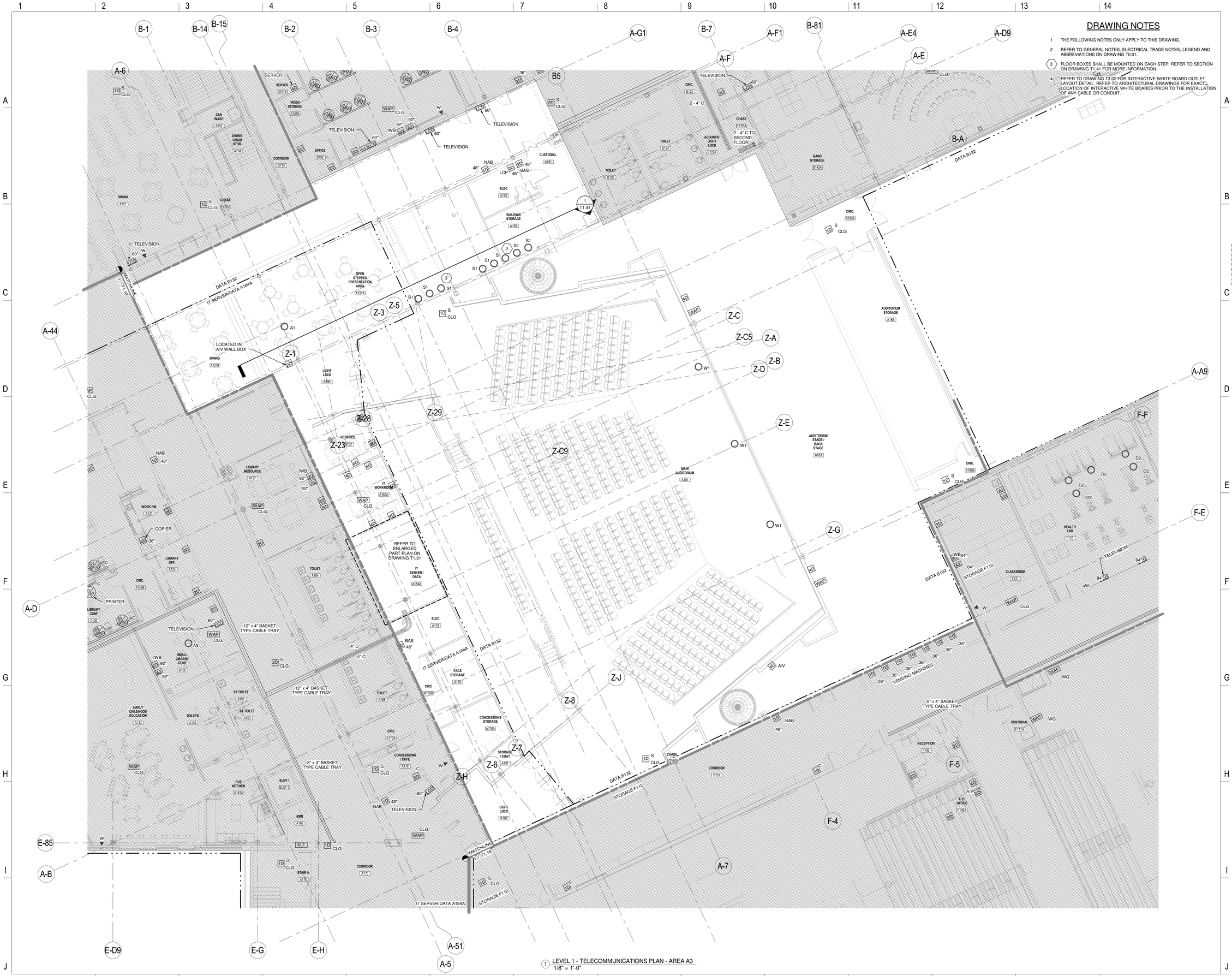
1. THE FOLLOWING NOTES ONLY APPLY TO THIS DRAWING.
2. REFER TO GENERAL NOTES, ELECTRICAL TRADE NOTES, LEGEND AND ABBREVIATIONS ON DRAWING T0.01.
3. FLOOR BOXES SHALL BE MOUNTED ON EACH STEP. REFER TO SECTION ON DRAWING T1.41 FOR MORE INFORMATION.
4. REFER TO DRAWING T3.02 FOR INTERACTIVE WHITE BOARD OUTLET LAYOUT DETAIL. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATION OF INTERACTIVE WHITE BOARDS PRIOR TO THE INSTALLATION OF ANY CABLE OR CONDUIT.



1 LEVEL 1 - TELECOMMUNICATIONS PLAN - AREA A3
1/8" = 1'-0"

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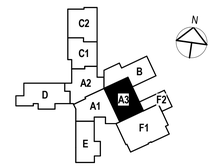

CONTENT:
FIRST FLOOR TELECOMMUNICATIONS PLAN - AREA A3

DRAWN BY:	C. NEWELL
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DATE:	02/11/2016
REVISED:	
SCALE:	1/8" = 1'-0"

T1.12

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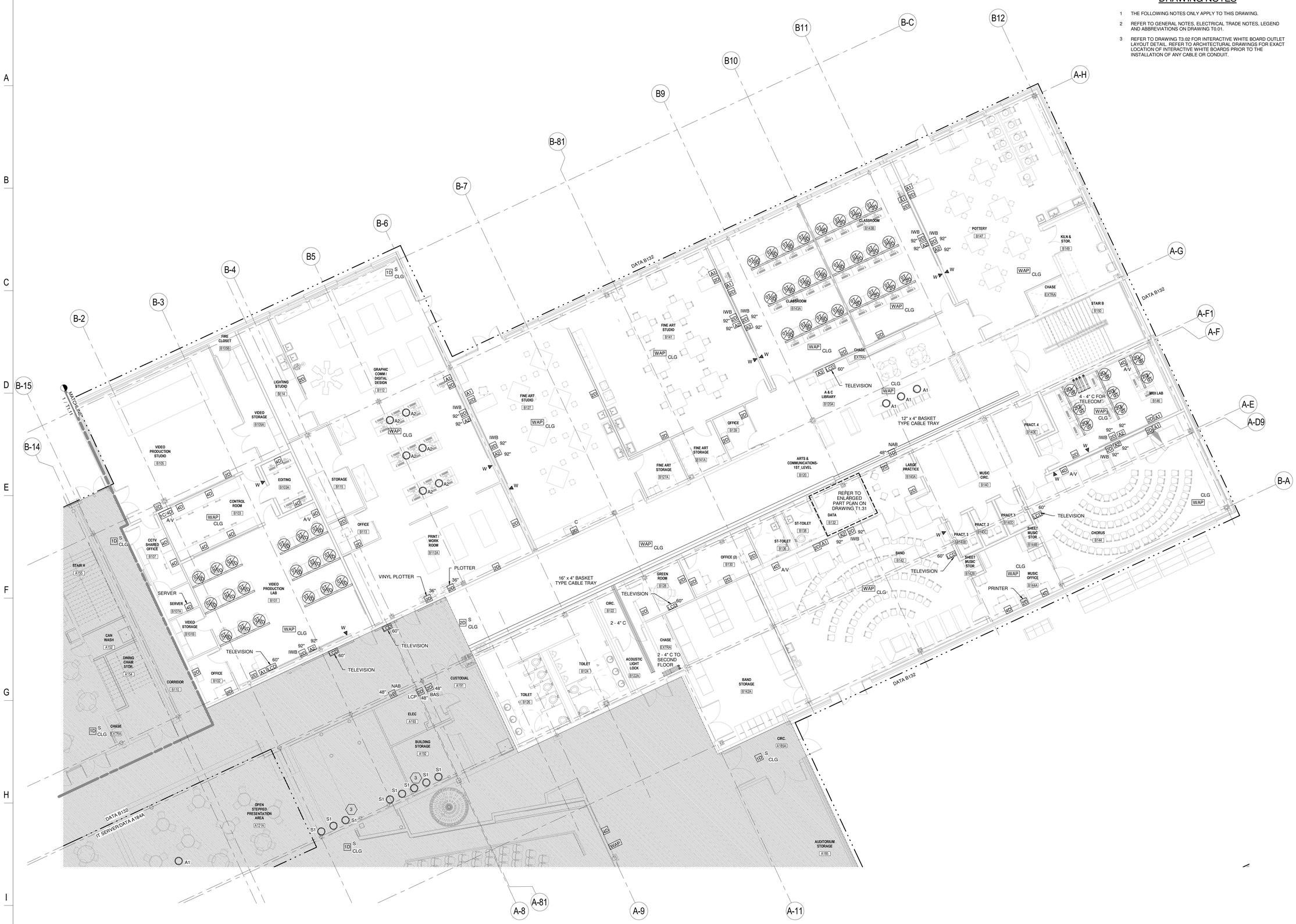
DRAWING NOTES

1. THE FOLLOWING NOTES ONLY APPLY TO THIS DRAWING.
2. REFER TO GENERAL NOTES, ELECTRICAL TRADE NOTES, LEGEND AND ABBREVIATIONS ON DRAWING T0.01.
3. REFER TO DRAWING T3.02 FOR INTERACTIVE WHITE BOARD OUTLET LAYOUT DETAIL. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATION OF INTERACTIVE WHITE BOARDS PRIOR TO THE INSTALLATION OF ANY CABLE OR CONDUIT.



1 LEVEL 1 - TELECOMMUNICATIONS PLAN - AREA B
1/8" = 1'-0"

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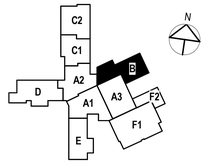

CONTENT:
FIRST FLOOR TELECOMMUNICATIONS PLAN - AREA B

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DATE:	02/11/2016
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SCALE:	1/8" = 1'-0"

T1.13

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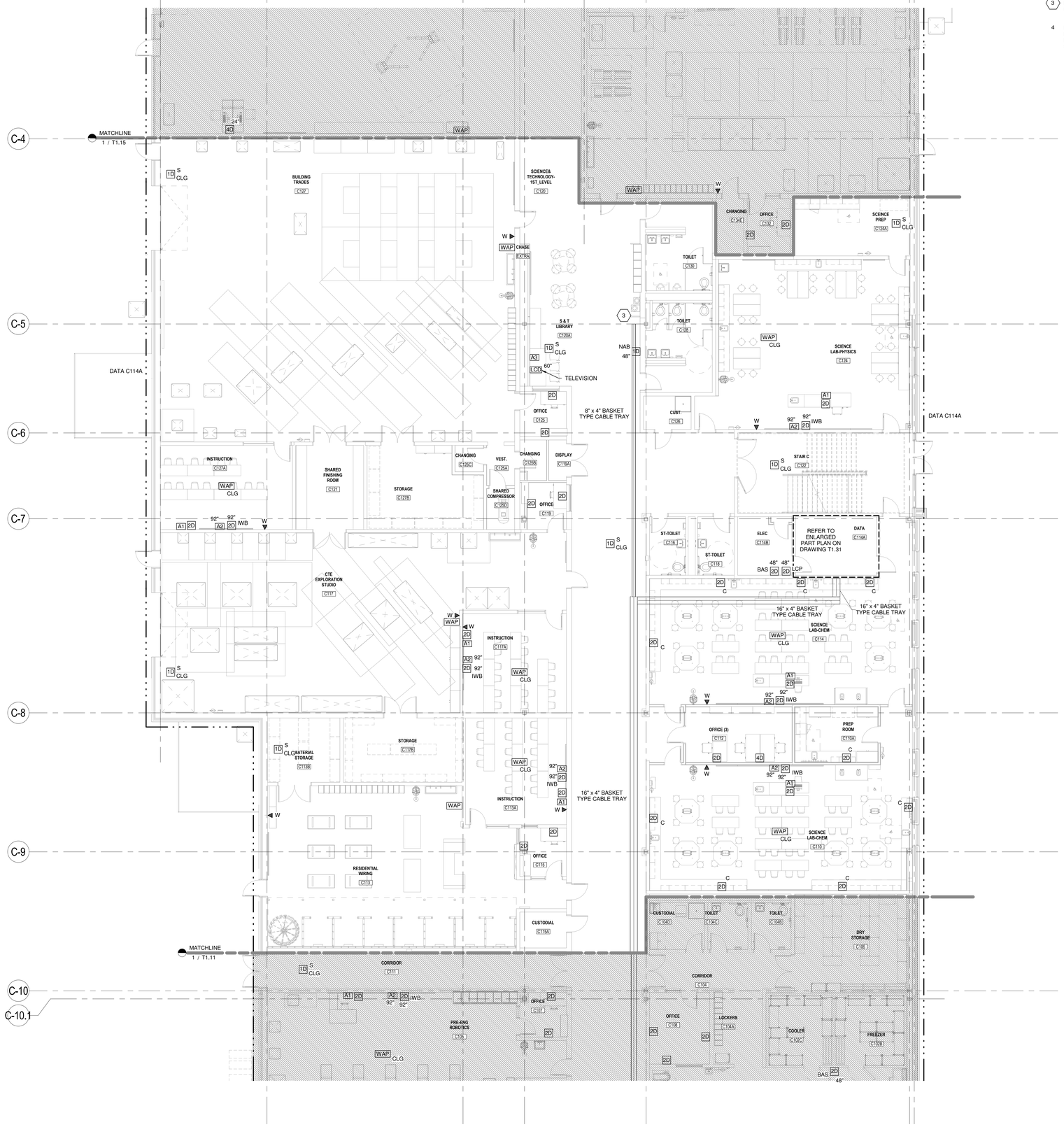

1 LEVEL 1 - TELECOMMUNICATIONS PLAN - AREA C1
1/8" = 1'-0"

DRAWING NOTES

1. THE FOLLOWING NOTES ONLY APPLY TO THIS DRAWING.
2. REFER TO GENERAL NOTES, ELECTRICAL TRADE NOTES, LEGEND AND ABBREVIATIONS ON DRAWING T0.01.
3. PROVIDE CONDUIT IN EXPOSED AREAS TO SUPPORT NETWORK CABLING BEYOND THIS POINT. CONDUITS SHALL BE ROUTED TO TERMINATE AT THIS TRAY LOCATED ABOVE THE CEILING.
4. REFER TO DRAWING T3.02 FOR INTERACTIVE WHITE BOARD OUTLET LAYOUT DETAIL. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATION OF INTERACTIVE WHITE BOARDS PRIOR TO THE INSTALLATION OF ANY CABLE OR CONDUIT.

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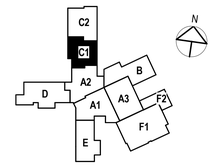

CONTENT:
FIRST FLOOR TELECOMMUNICATIONS PLAN - AREA C1

DRAWN BY:	C. NEWELL
PROJECT NO:	12-067-00
DATE:	02/11/2016
REVISED:	
SCALE:	1/8" = 1'-0"

T1.14

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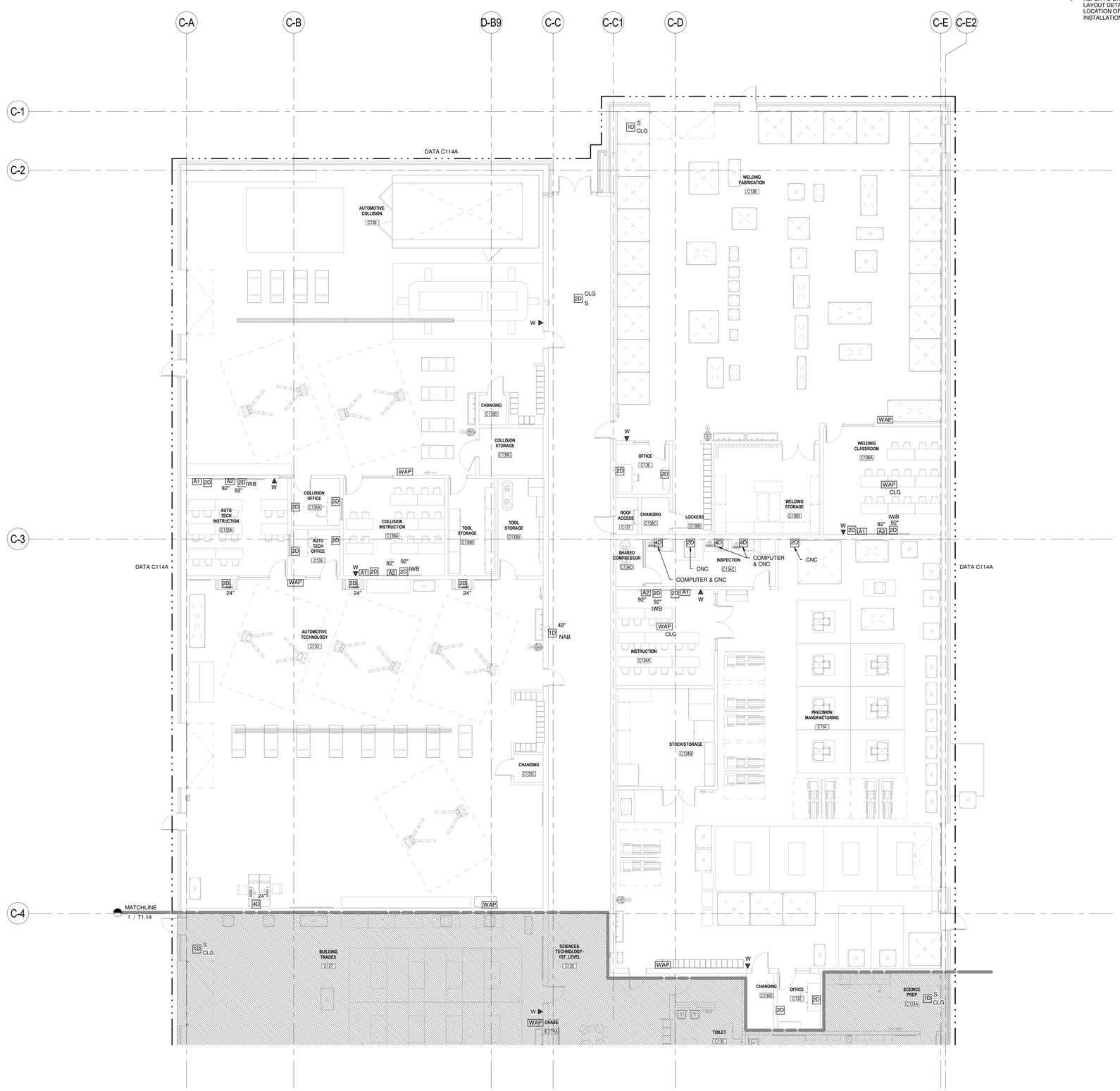
2. REFER TO GENERAL NOTES, ELECTRICAL TRADE NOTES, LEGEND AND ABBREVIATIONS ON DRAWING T0.01.
3. REFER TO DRAWING T3.02 FOR INTERACTIVE WHITE BOARD OUTLET LAYOUT DETAIL. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATION OF INTERACTIVE WHITE BOARDS PRIOR TO THE INSTALLATION OF ANY CABLE OR CONDUIT.



1 LEVEL 1 - TELECOMMUNICATIONS PLAN - AREA C2
1/8" = 1'-0"

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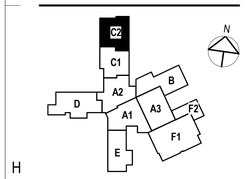
NO.	DESCRIPTION	DATE



CONTENT:
FIRST FLOOR TELECOMMUNICATIONS PLAN - AREA C2

DRAWN BY:	C. NEWELL
PROJECT NO:	12-067-00
DATE:	02/11/2016
REVISED:	
SCALE:	1/8" = 1'-0"

T1.15

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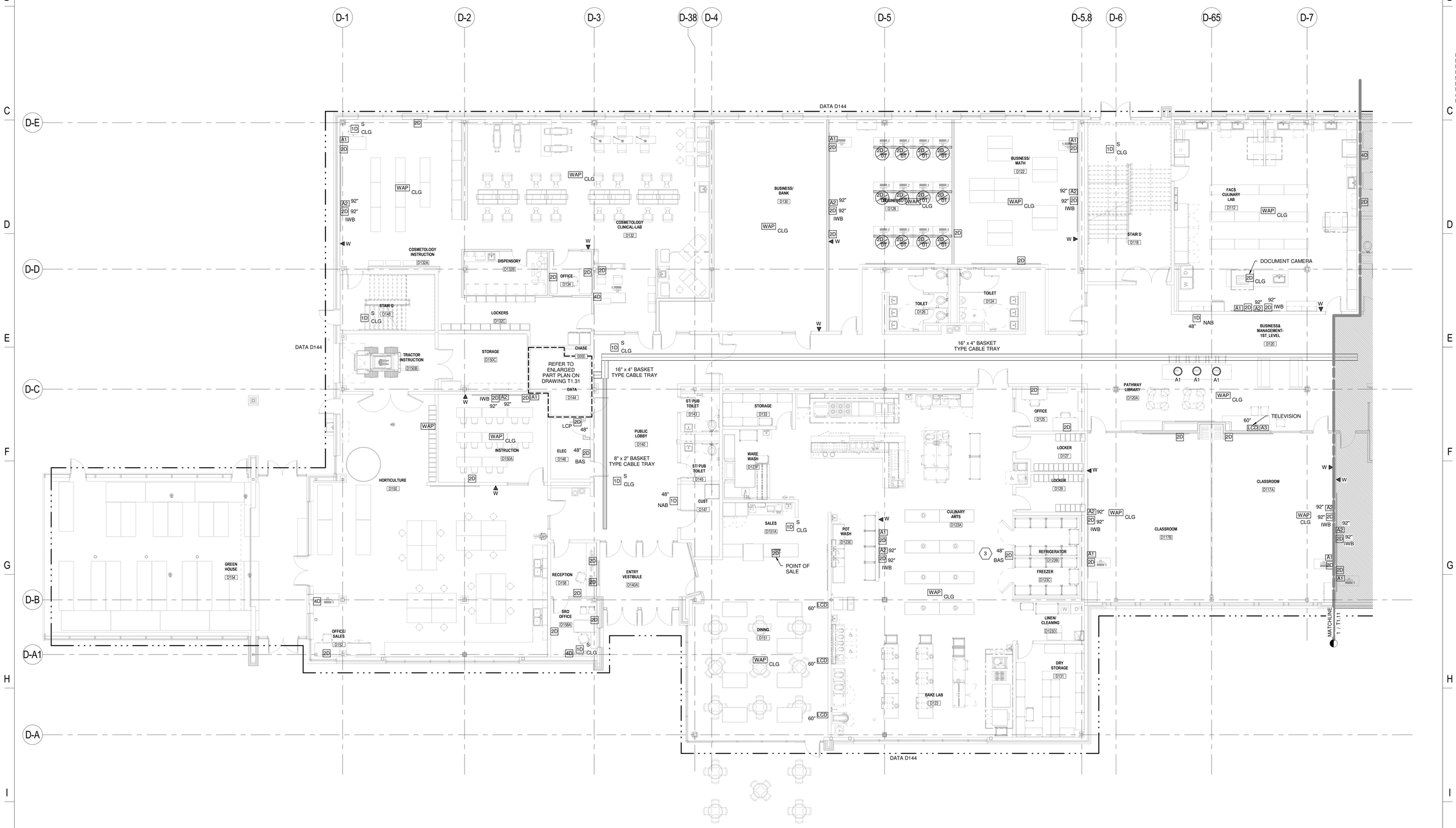
2. REFER TO GENERAL NOTES, ELECTRICAL TRADE NOTES, LEGEND AND ABBREVIATIONS ON DRAWING T0.01.
3. COORDINATE BAS NETWORK OUTLETS WITH COOLER INSTALLATION CONTRACTOR PRIOR TO INSTALLATION.
4. REFER TO DRAWING T3.02 FOR INTERACTIVE WHITE BOARD OUTLET LAYOUT DETAIL. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATION OF INTERACTIVE WHITE BOARDS PRIOR TO THE INSTALLATION OF ANY CABLE OR CONDUIT.



1 LEVEL 1 - TELECOMMUNICATIONS PLAN - AREA D
1/8" = 1'-0"

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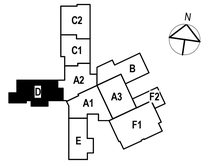
NO.	DESCRIPTION	DATE



CONTENT:
FIRST FLOOR TELECOMMUNICATIONS PLAN - AREA D

DRAWN BY:	C. NEWELL
PROJECT NO:	12-067-00
DATE:	02/11/2016
REVISED:	
SCALE:	1/8" = 1'-0"

T1.16

Project Phase
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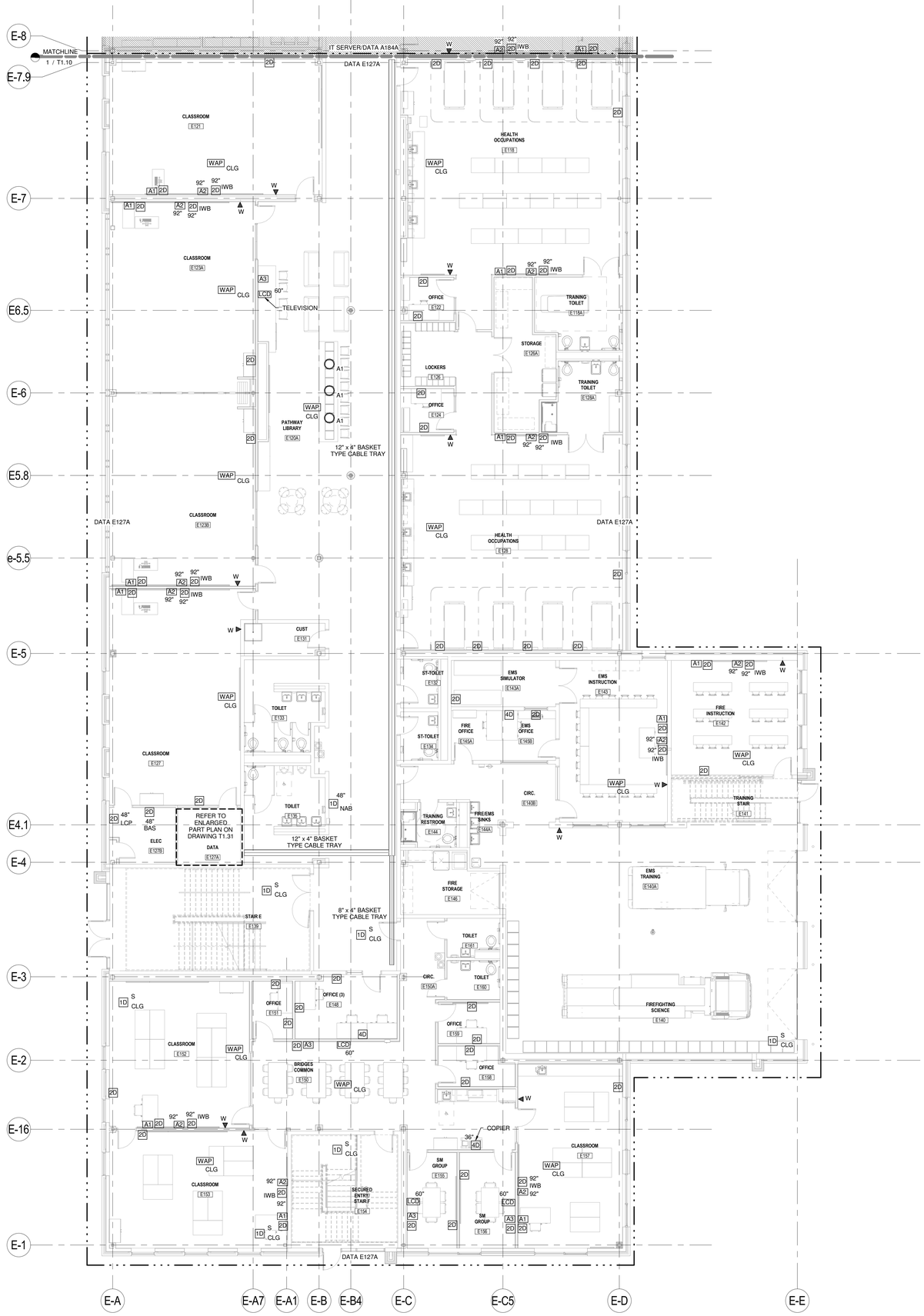
3. REFER TO DRAWING T3.02 FOR INTERACTIVE WHITE BOARD OUTLET LAYOUT DETAIL. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATION OF INTERACTIVE WHITE BOARDS PRIOR TO THE INSTALLATION OF ANY CABLE OR CONDUIT.



1 LEVEL 1 - TELECOMMUNICATIONS PLAN - AREA E
1/8" = 1'-0"

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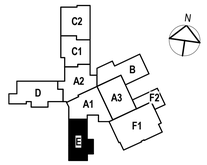
SANFORD, ME 04073

NO.	DESCRIPTION	DATE



CONTENT:
FIRST FLOOR TELECOMMUNICATIONS PLAN - AREA E

DRAWN BY:	C. NEWELL
PROJECT NO:	12-067-00
DATE:	02/11/2016
REVISED:	
SCALE:	1/8" = 1'-0"

T1.17

Project Phase
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3. REFER TO DRAWING T3.02 FOR INTERACTIVE WHITE BOARD OUTLET LAYOUT DETAIL. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATION OF INTERACTIVE WHITE BOARDS PRIOR TO THE INSTALLATION OF ANY CABLE OR CONDUIT.

1 LEVEL 1 - TELECOMMUNICATIONS PLAN - AREA F1
1/8" = 1'-0"

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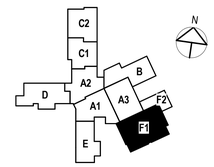

CONTENT:
FIRST FLOOR TELECOMMUNICATIONS PLAN - AREA F1

DRAWN BY:	C. NEWELL
PROJECT NO:	12-067-00
DATE:	02/11/2016
REVISED:	
SCALE:	1/8" = 1'-0"

T1.18

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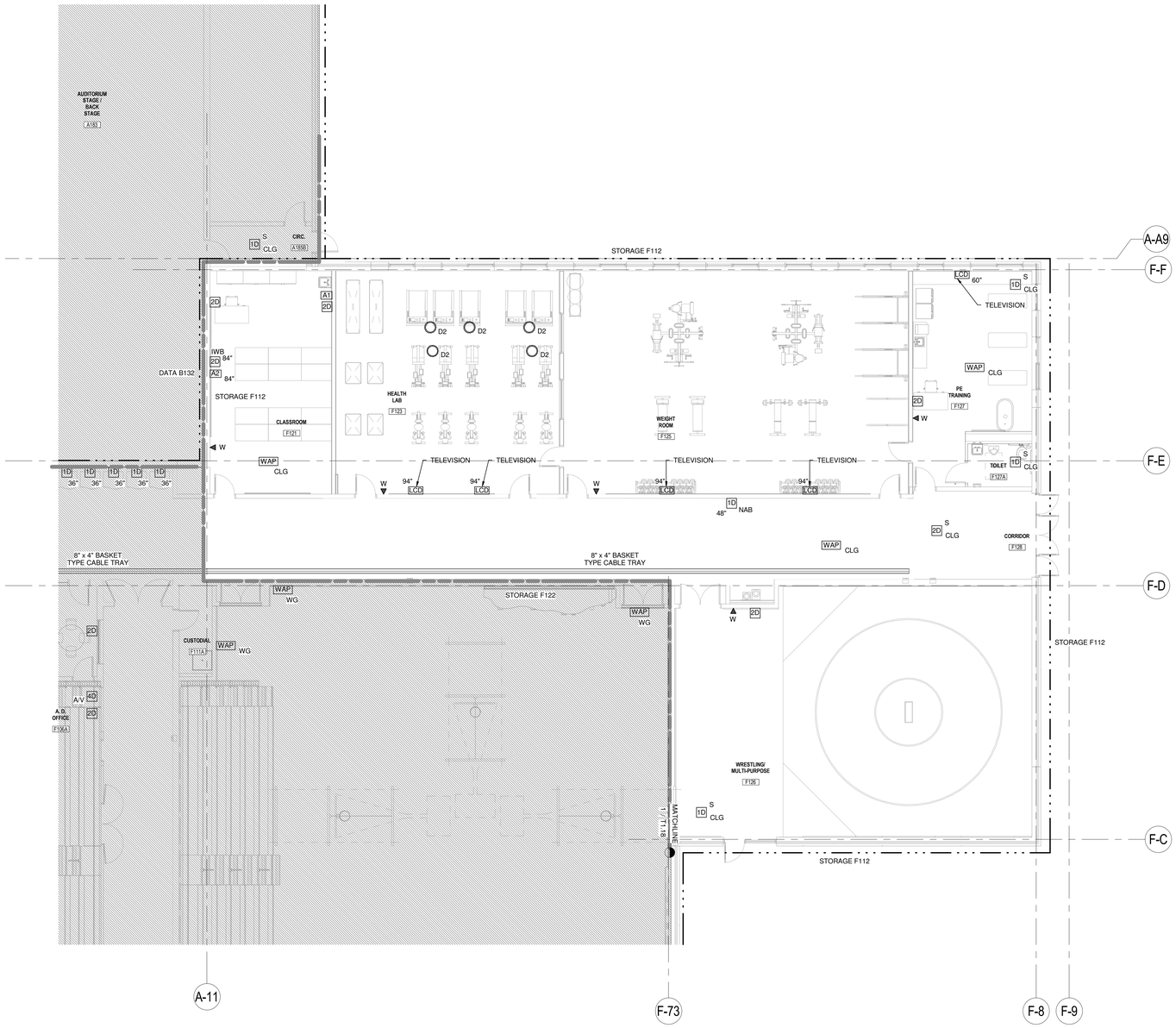

1 LEVEL 1 - TELECOMMUNICATIONS PLAN - AREA F2
1/8" = 1'-0"

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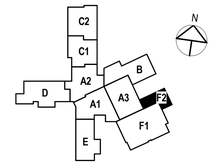

CONTENT:
FIRST FLOOR TELECOMMUNICATIONS PLAN - AREA F2

DRAWN BY:	C. NEWELL
PROJECT NO:	12-067-00
DATE:	02/11/2016
REVISED:	
SCALE:	1/8" = 1'-0"

T1.19

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DRAWING NOTES
(A-F1)

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1 LEVEL 2 - TELECOMMUNICATIONS PLAN - AREA A1
1/8" = 1'-0"

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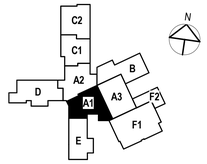

CONTENT:
SECOND FLOOR TELECOMMUNICATIONS PLAN - AREA A1

DRAWN BY:	C. NEWELL
PROJECT NO:	12-067-00
DATE:	02/11/2016
REVISED:	
SCALE:	1/8" = 1'-0"

T1.20

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1 LEVEL 2 - TELECOMMUNICATIONS PLAN - AREA A2
1/8" = 1'-0"

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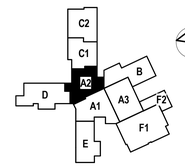

CONTENT:
SECOND FLOOR TELECOMMUNICATIONS PLAN - AREA A2

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

T1.21

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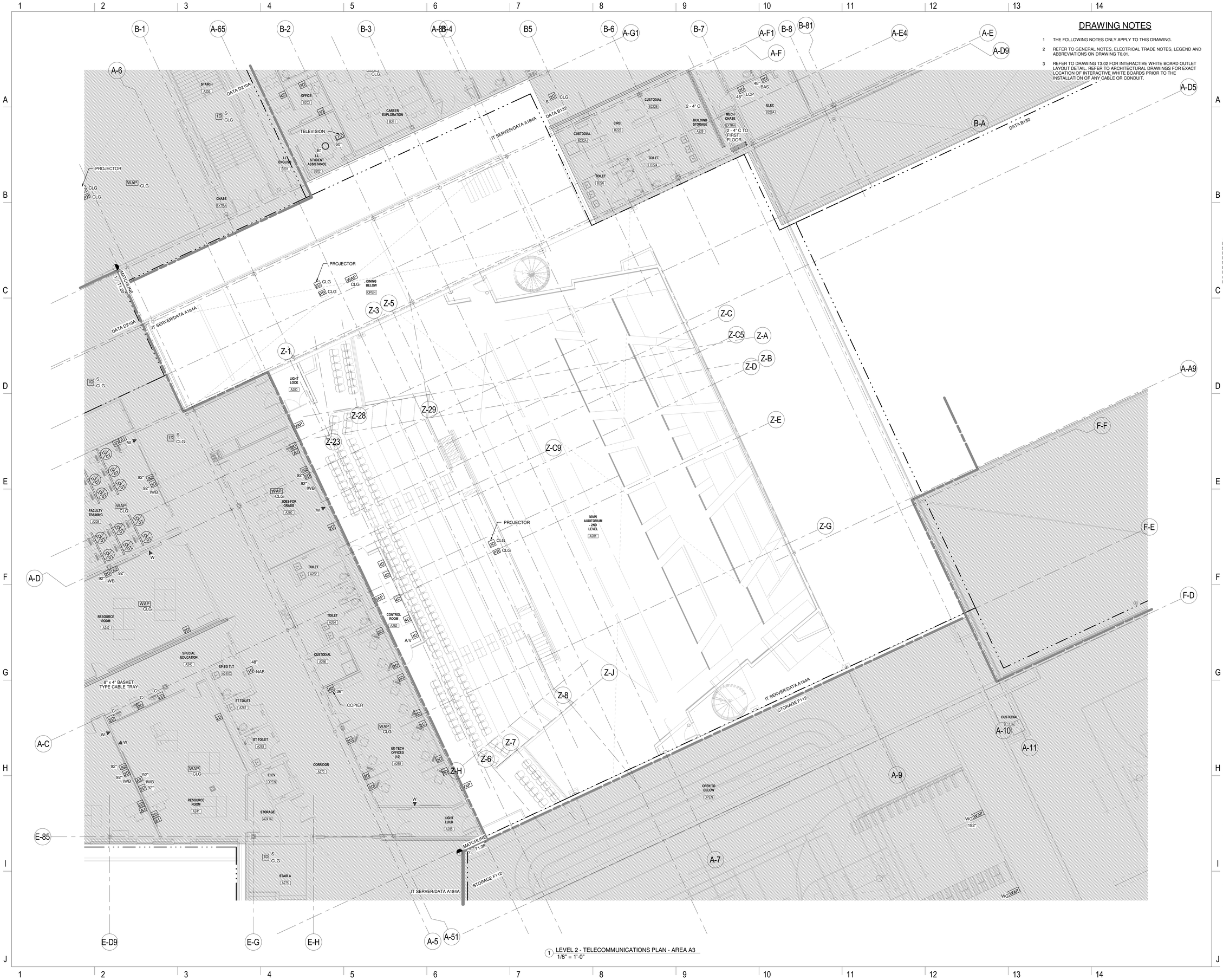

1 LEVEL 2 - TELECOMMUNICATIONS PLAN - AREA A3
1/8" = 1'-0"

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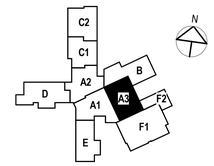

CONTENT:
SECOND FLOOR TELECOMMUNICATIONS PLAN - AREA A3

DRAWN BY:	C. NEWELL
PROJECT NO:	12-067-00
DATE:	02/11/2016
REVISED:	
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T1.22

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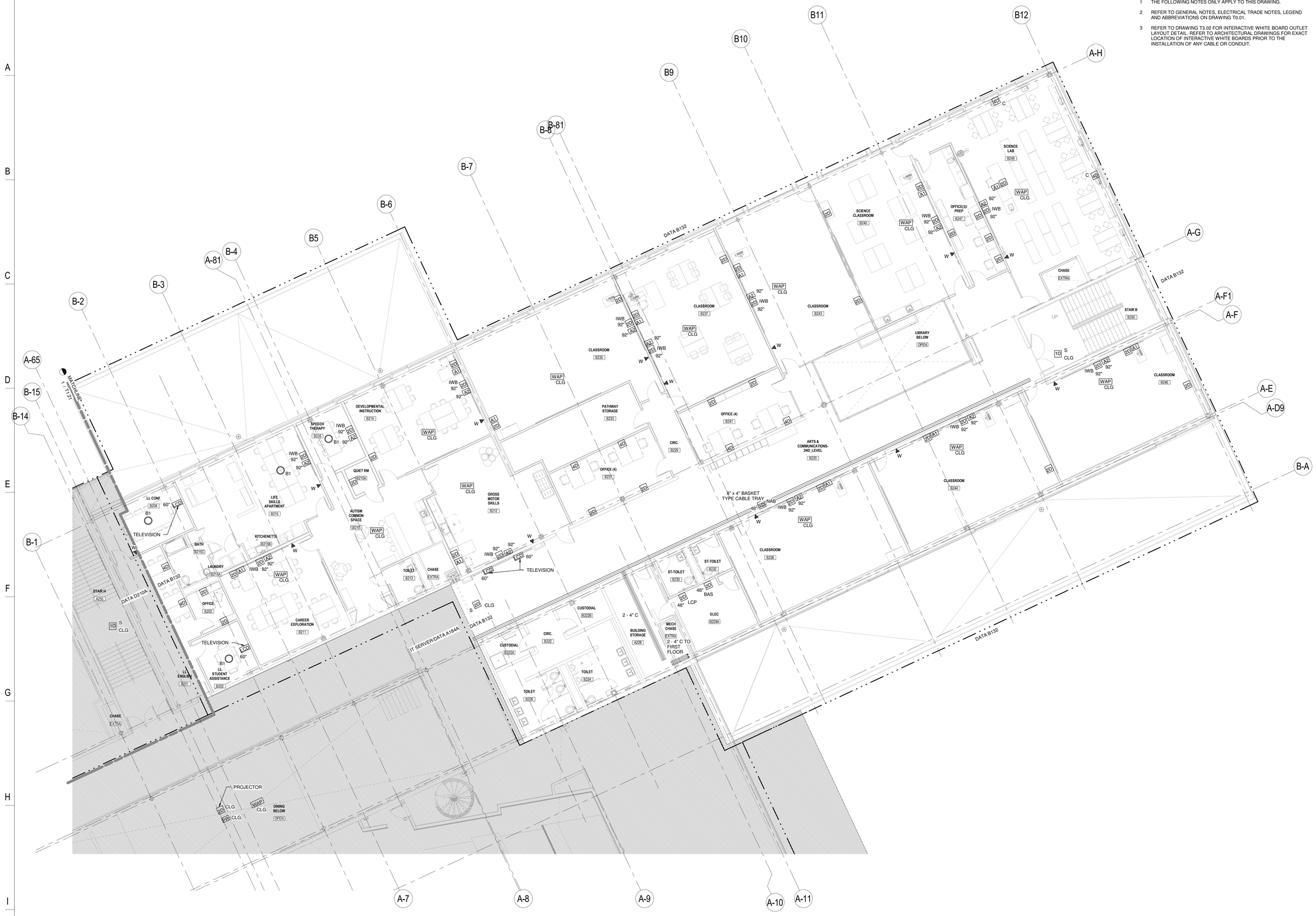

1 LEVEL 2 - TELECOMMUNICATIONS PLAN - AREA B
1/8" = 1'-0"

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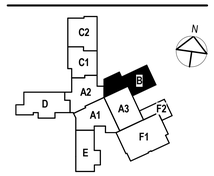

CONTENT:
SECOND FLOOR TELECOMMUNICATIONS PLAN - AREA B

DRAWN BY:	C. NEWELL
PROJECT NO:	12-067-00
DATE:	02/11/2016
REVISED:	
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T1.23

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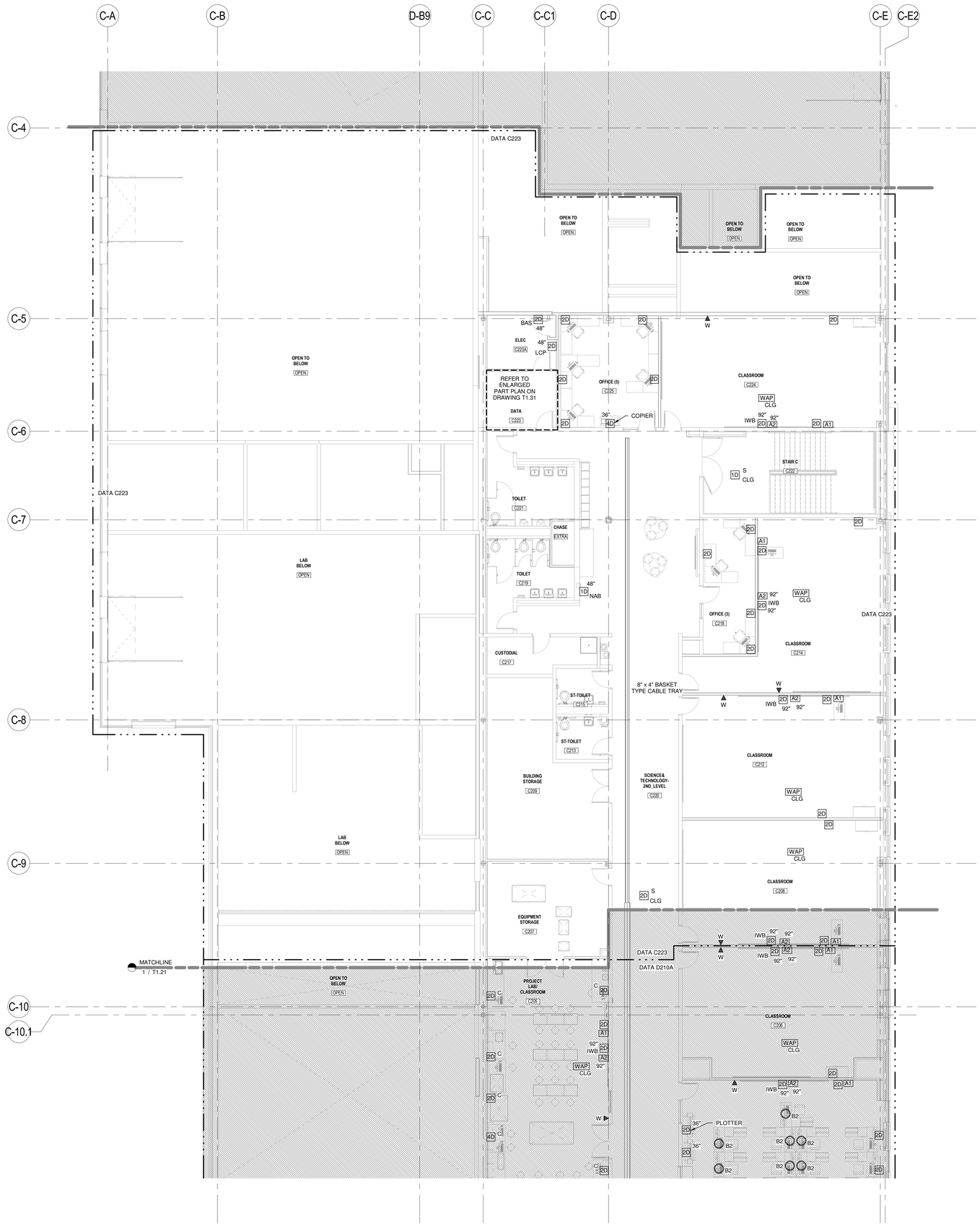

1 LEVEL 2 - TELECOMMUNICATIONS PLAN - AREA C1
1/8" = 1'-0"

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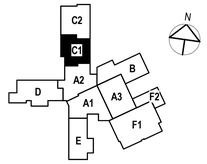

CONTENT:
SECOND FLOOR TELECOMMUNICATIONS PLAN - AREA C1

DRAWN BY:	C. NEWELL
PROJECT NO:	12-067-00
DATE:	02/11/2016
REVISED:	
SCALE:	1/8" = 1'-0"

T1.24

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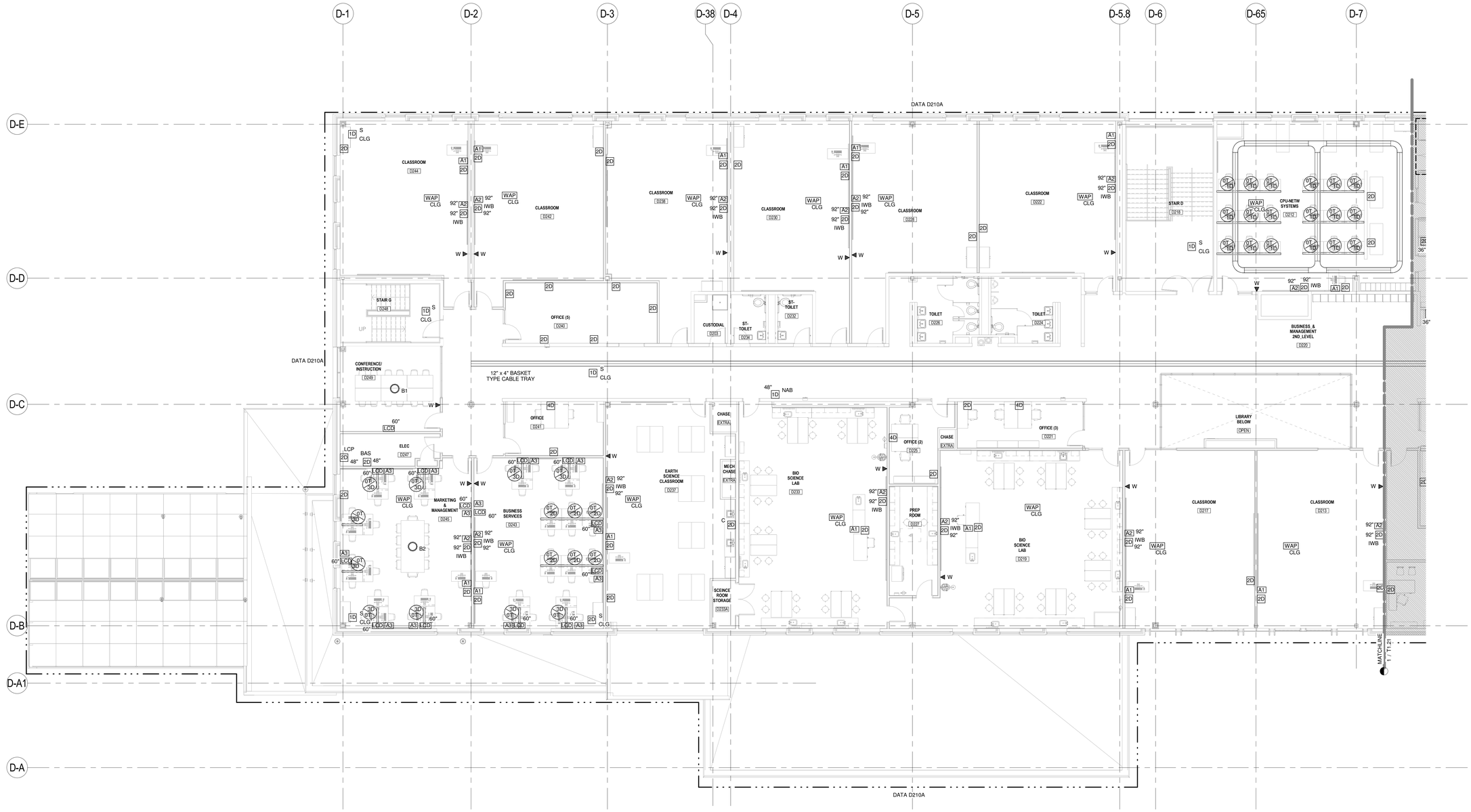

1 LEVEL 2 - TELECOMMUNICATIONS PLAN - AREA D
1/8" = 1'-0"

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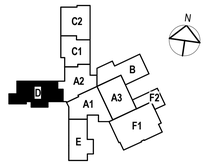

CONTENT:
SECOND FLOOR TELECOMMUNICATIONS PLAN - AREA D

DRAWN BY:	C. NEWELL
PROJECT NO:	12-067-00
DATE:	02/11/2016
REVISED:	
SCALE:	1/8" = 1'-0"

T1.26

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1 LEVEL 2 - TELECOMMUNICATIONS PLAN - AREA E
1/8" = 1'-0"

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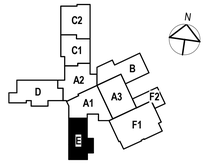

CONTENT:
SECOND FLOOR TELECOMMUNICATIONS PLAN - AREA E

DRAWN BY:	C. NEWELL
PROJECT NO:	12-067-00
DATE:	02/11/2016
REVISED:	
SCALE:	1/8" = 1'-0"

T1.27

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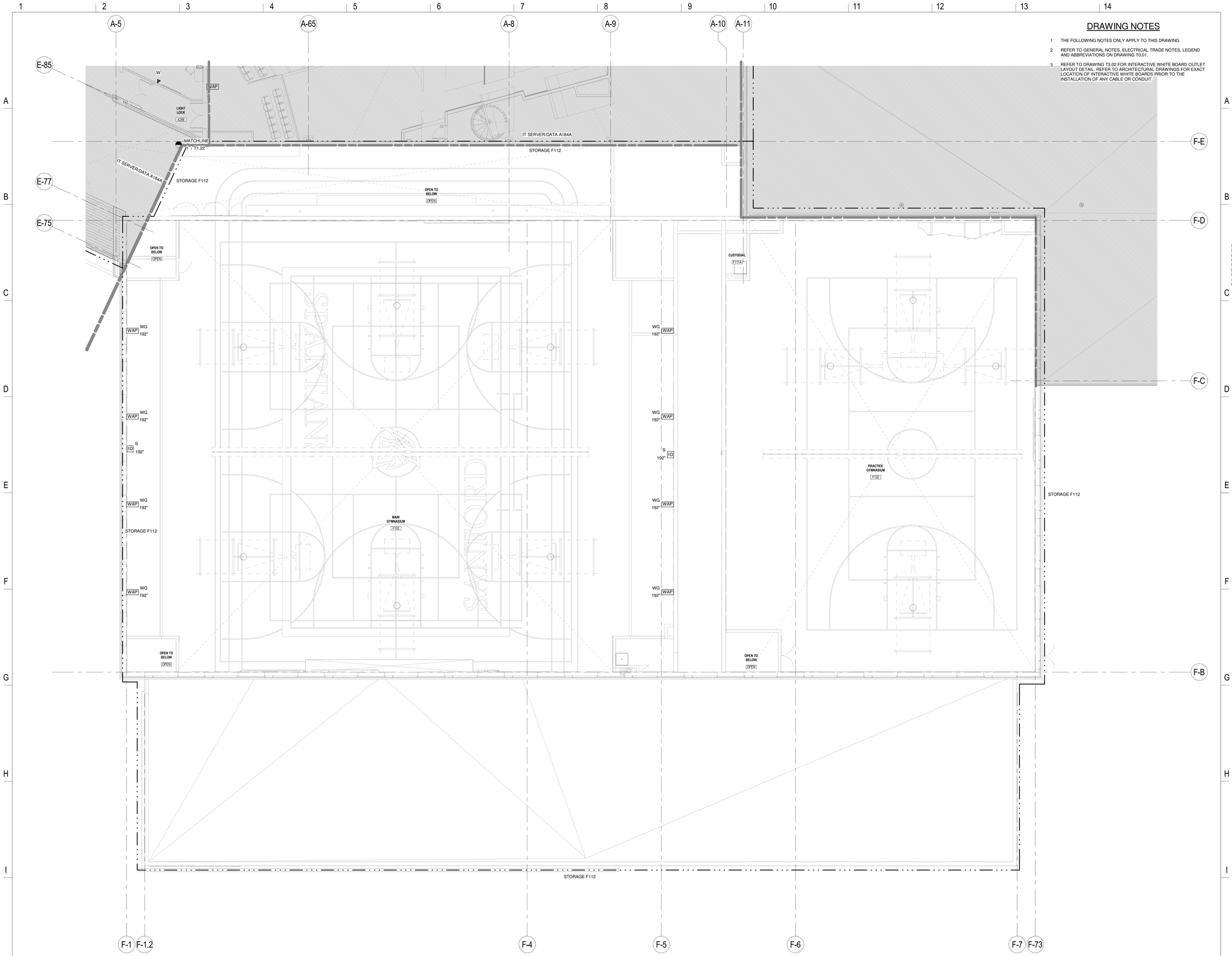

1 LEVEL 2 - TELECOMMUNICATIONS PLAN - AREA F1
1/8" = 1'-0"

DRAWING NOTES

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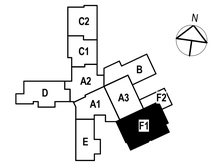

CONTENT:
SECOND FLOOR TELECOMMUNICATIONS PLAN - AREA F1

DRAWN BY:	C. NEWELL
PROJECT NO:	12-067-00
DATE:	02/11/2016
REVISED:	
SCALE:	1/8" = 1'-0"

T1.28

Project Phase
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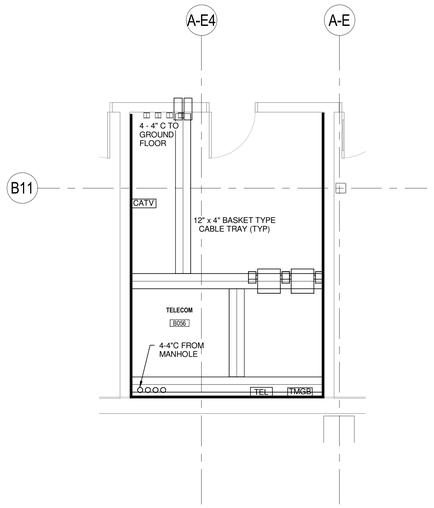
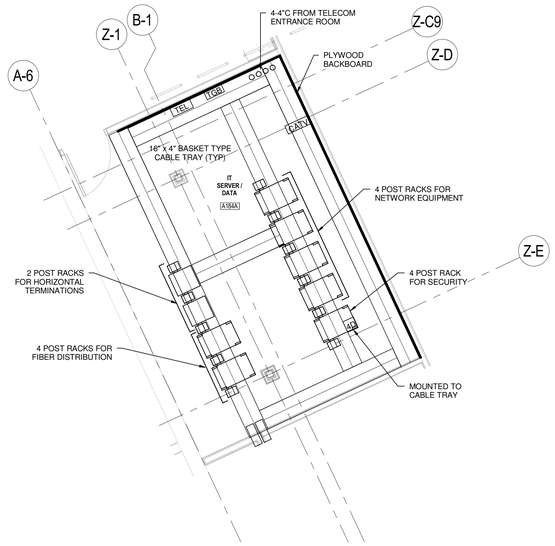
DRAWING NOTES

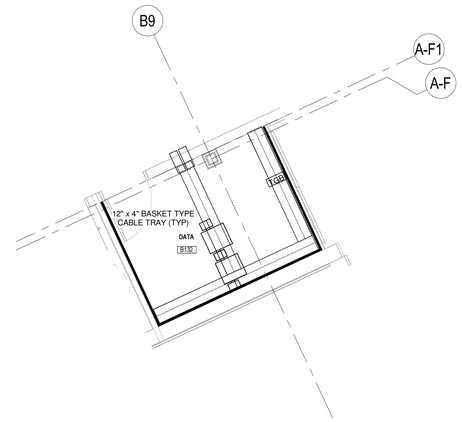
1. THE FOLLOWING NOTES ONLY APPLY TO THIS DRAWING.
2. REFER TO GENERAL NOTES, ELECTRICAL TRADE NOTES, LEGEND AND ABBREVIATIONS ON DRAWING T0.01.
3. TELECOM CONTRACTOR SHALL SUPPLY ALL RACKS SHOWN IN PART PLANS.



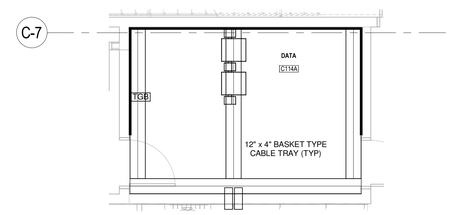
1 BASEMENT - ENLARGED TELECOM B056 TELECOMMUNICATIONS PART PLAN - AREA B
1/4" = 1'-0"



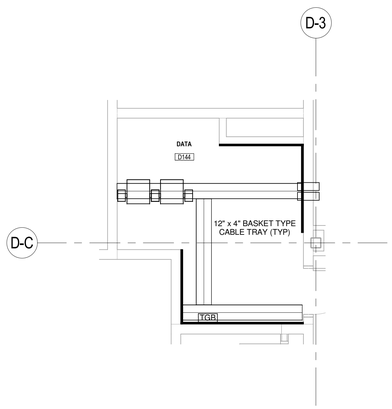
2 LEVEL 1 - ENLARGED IT SERVER/DATA A184A TELECOMMUNICATIONS PART PLAN - AREA A3
1/4" = 1'-0"



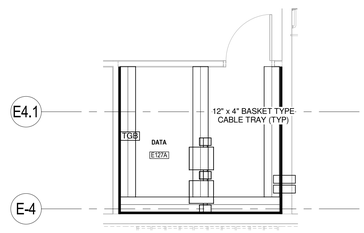
3 LEVEL 1 - ENLARGED DATA B132 TELECOMMUNICATIONS PART PLAN - AREA B
1/4" = 1'-0"



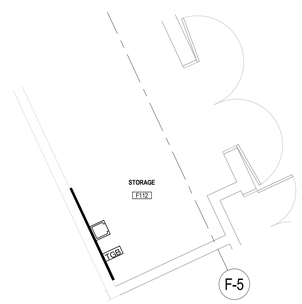
4 LEVEL 1 - ENLARGED DATA C114A TELECOMMUNICATIONS PART PLAN - AREA C1
1/4" = 1'-0"



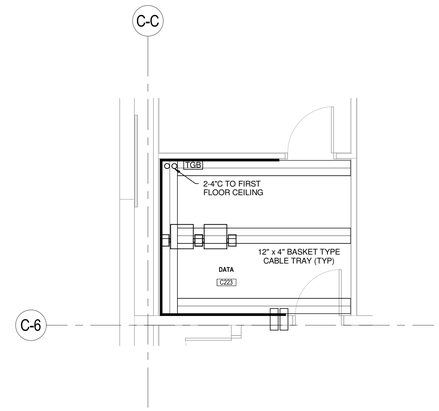
5 LEVEL 1 - ENLARGED DATA D144 TELECOMMUNICATIONS PART PLAN - AREA D
1/4" = 1'-0"



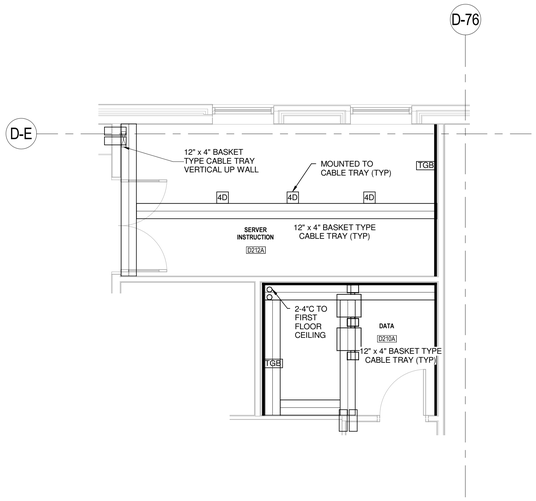
6 LEVEL 1 - ENLARGED DATA E127A TELECOMMUNICATIONS PART PLAN - AREA E
1/4" = 1'-0"



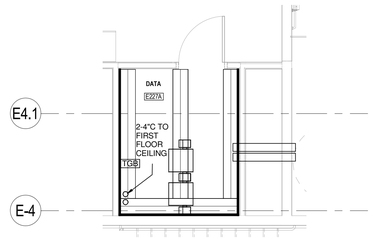
7 LEVEL 1 - ENLARGED STORAGE F112 TELECOMMUNICATIONS PART PLAN - AREA F1
1/4" = 1'-0"



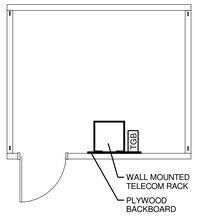
8 LEVEL 2 - ENLARGED DATA C223 TELECOMMUNICATIONS PART PLAN - AREA C1
1/4" = 1'-0"



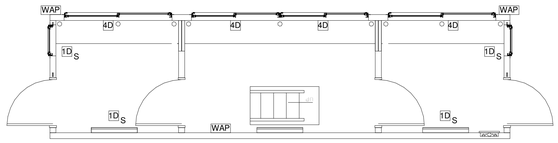
9 LEVEL 2 - ENLARGED DATA D210A & SERVER INSTRUCTION D212A TELECOMMUNICATIONS PART PLAN - AREA A2
1/4" = 1'-0"



10 LEVEL 2 - ENLARGED DATA E227A TELECOMMUNICATIONS PART PLAN - AREA E
1/4" = 1'-0"



11 ENLARGED STADIUM MAIN ELECTRICAL ROOM TELECOMMUNICATIONS PART PLAN
1/4" = 1'-0"



12 ENLARGED PRESS BOX TELECOMMUICATIONS PART PLAN
1/4" = 1'-0"

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RFS Project #: 7300.001

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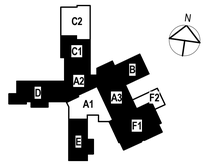

CONTENT:
ENLARGED TELECOMMUNICATIONS PART PLANS

DRAWN BY:	C. NEWELL
PROJECT NO:	12-067-00
DATE:	02/11/2016
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T1.31

Project Phase
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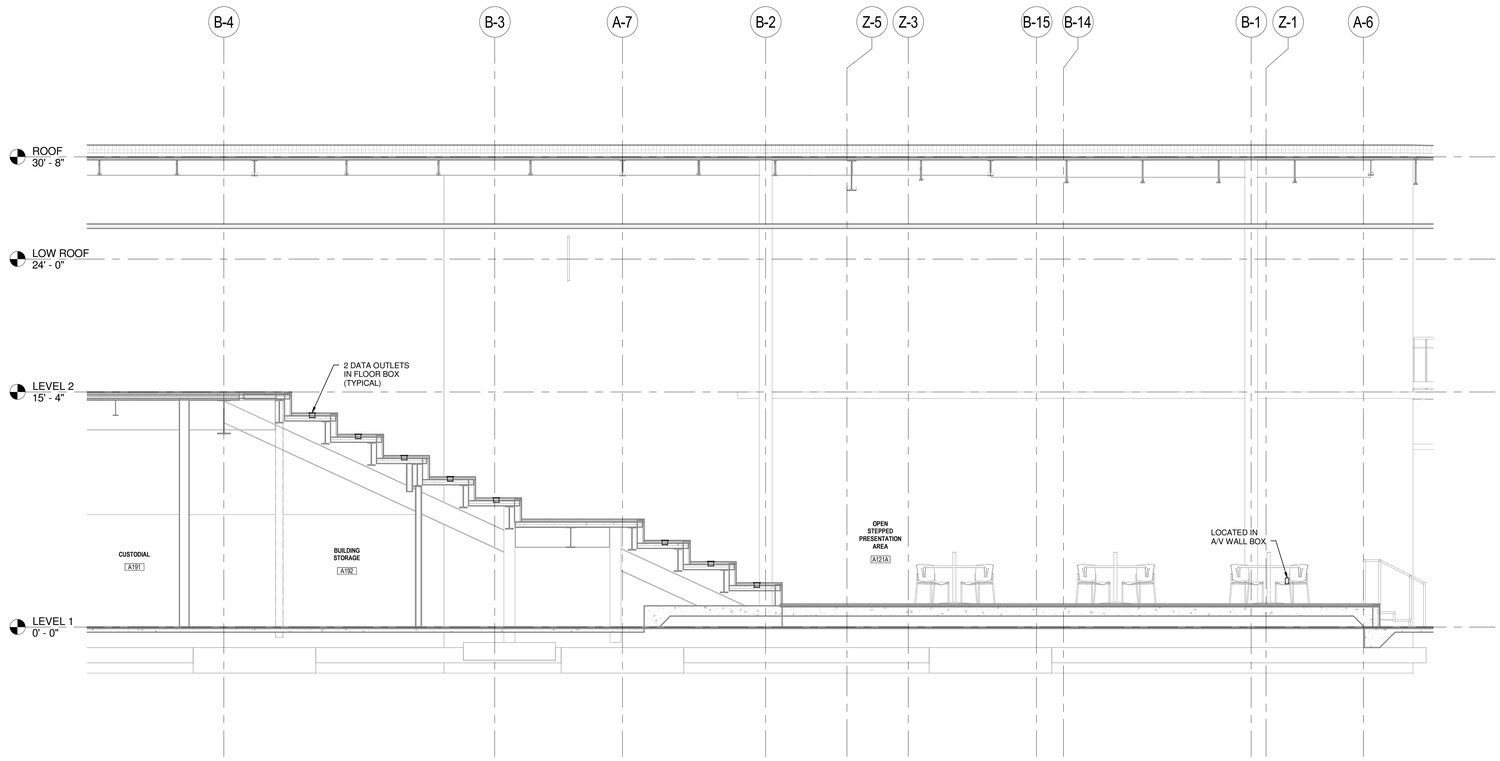

1 TELECOM SECTION - OPEN STEPPED PRESENTATION AREA - A121A - SOUTH WALL - AREA A3
1/4" = 1'-0"

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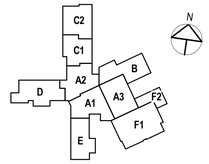

CONTENT:
TELECOMMUNICATIONS SECTIONS

DRAWN BY:	C. NEWELL
PROJECT NO:	12-067-00
DATE:	02/11/2016
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SCALE:	1/4" = 1'-0"

T1.41

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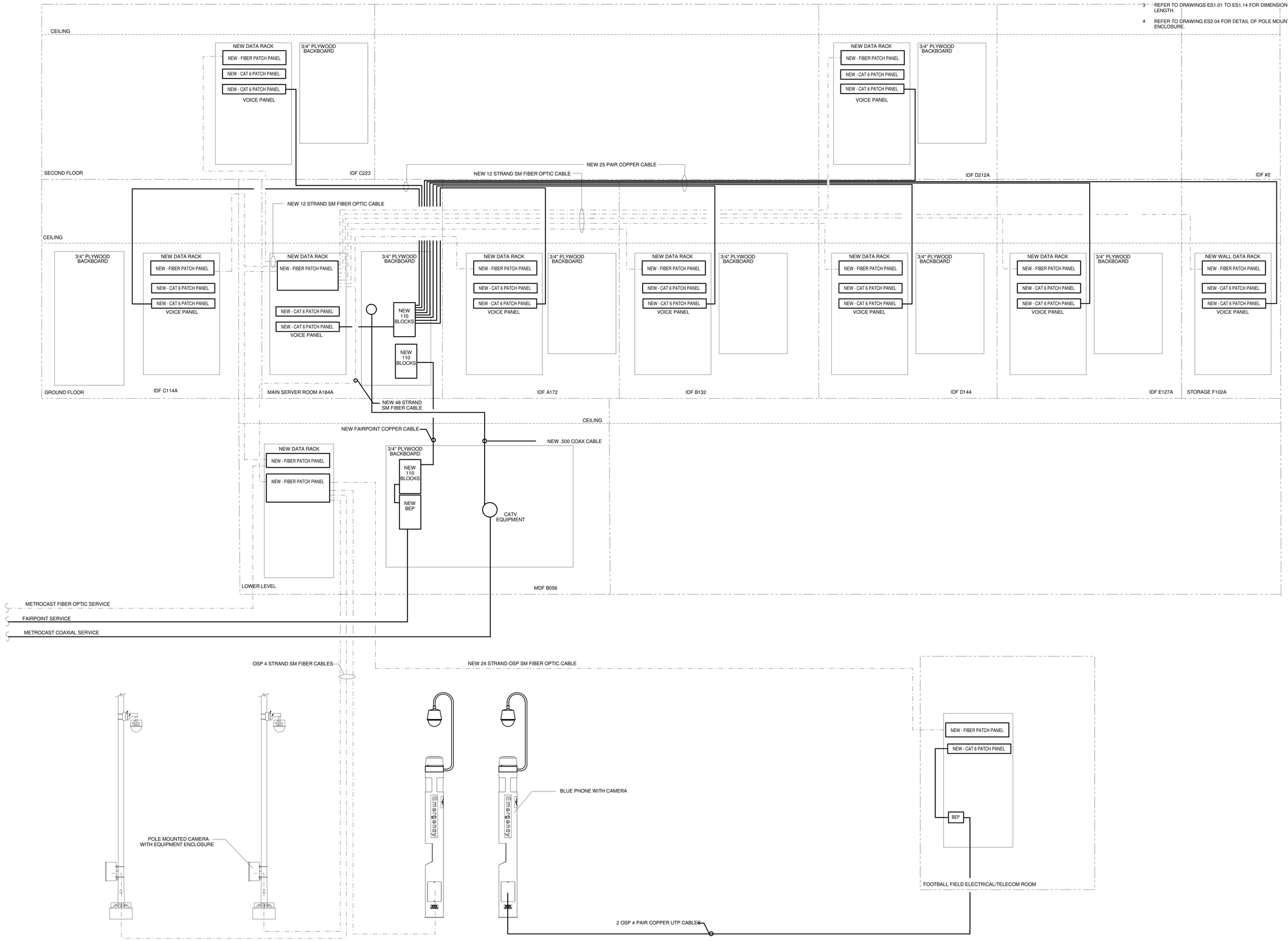
3. REFER TO DRAWINGS ES1.01 TO ES1.14 FOR DIMENSION AND CABLE LENGTH.
4. REFER TO DRAWING ES2.04 FOR DETAIL OF POLE MOUNT CAMERA AND ENCLOSURE.



1 TELECOMMUNICATIONS RISER DIAGRAM
NOT TO SCALE

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CONTENT:
TELECOMMUNICATIONS RISER DIAGRAM

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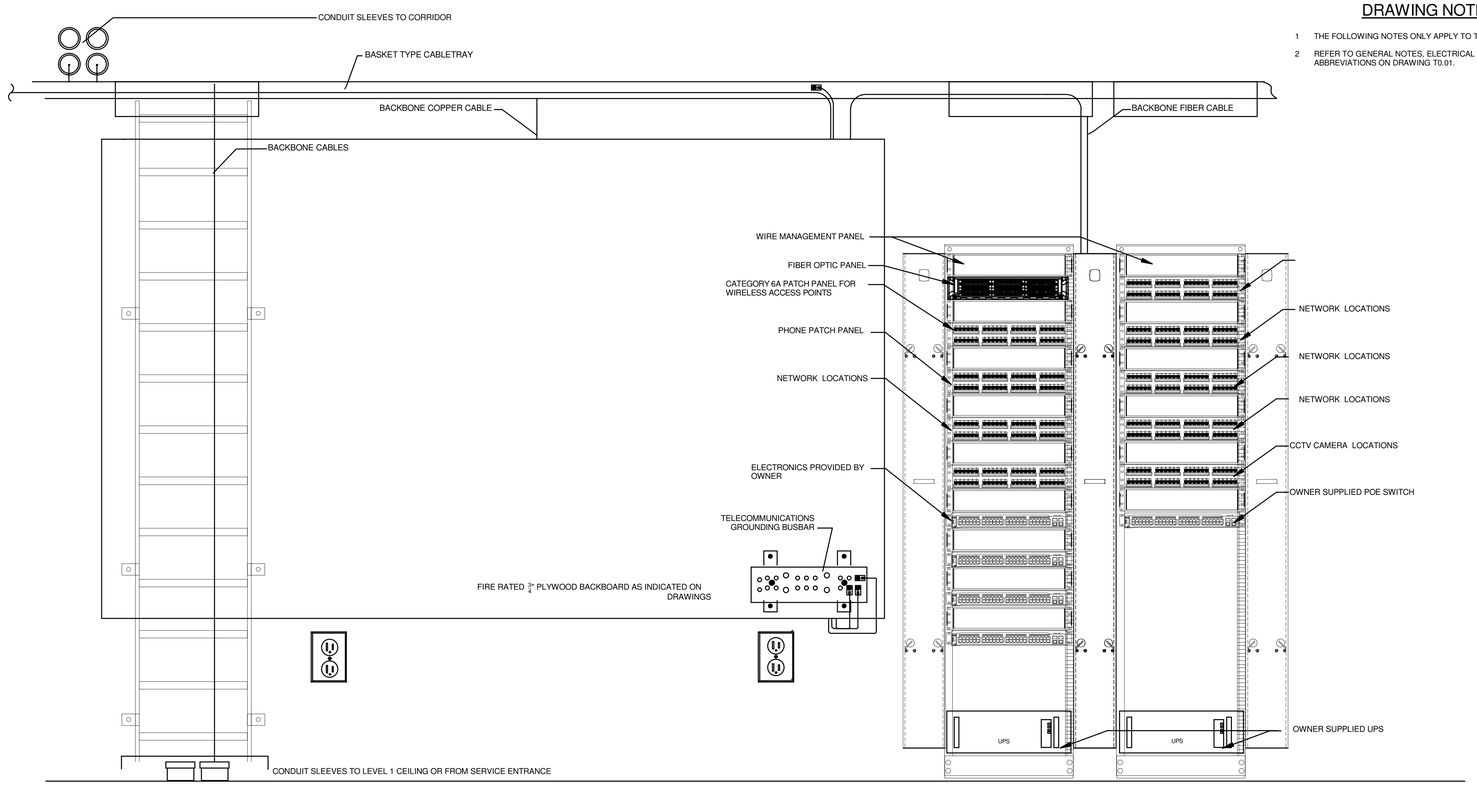
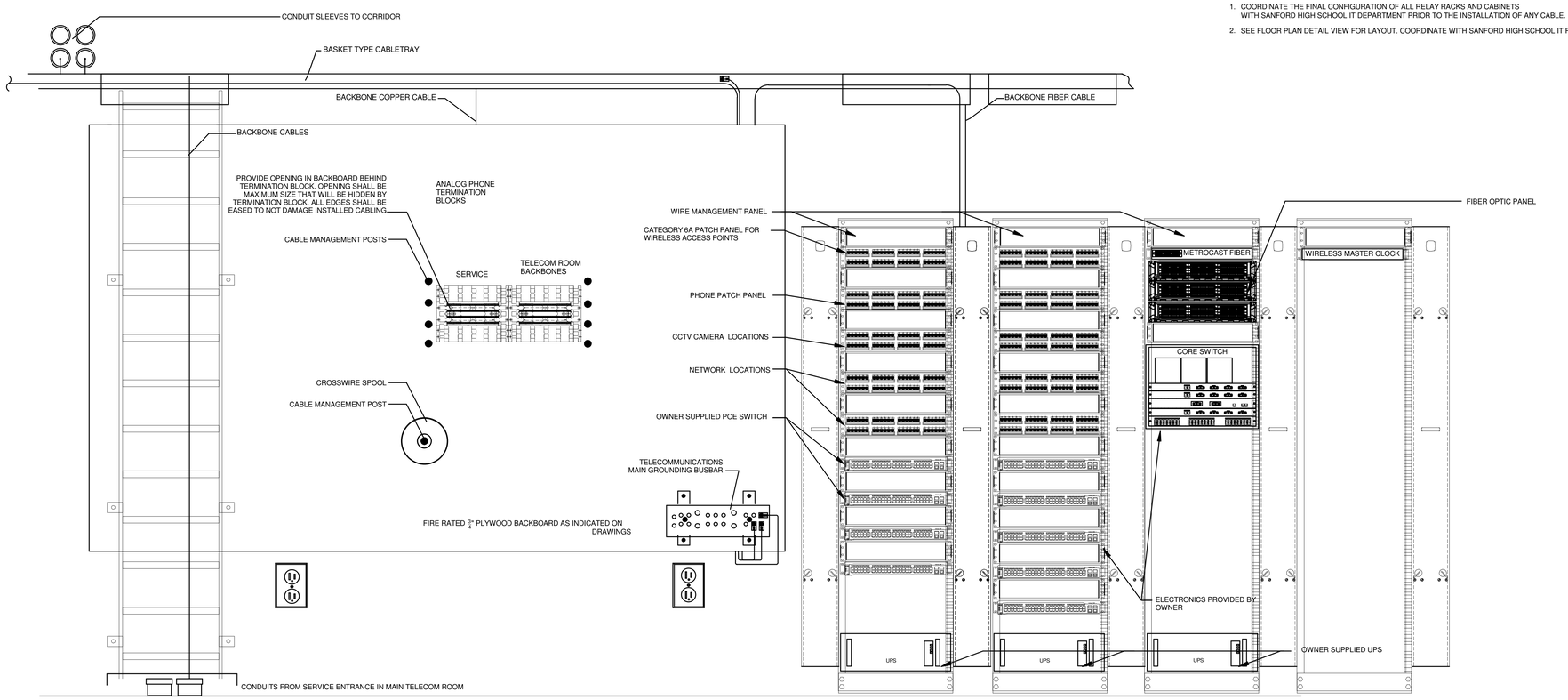


1 TYPICAL TELECOMMUNICATIONS ROOM BACKBOARD AND RACK ELEVATION DETAIL
NOT TO SCALE

NOTE:

1. COORDINATE THE FINAL CONFIGURATION OF ALL RELAY RACKS AND CABINETS WITH SANFORD HIGH SCHOOL IT DEPARTMENT PRIOR TO THE INSTALLATION OF ANY CABLE.
2. SEE FLOOR PLAN DETAIL VIEW FOR LAYOUT. COORDINATE WITH SANFORD HIGH SCHOOL IT FOR FINAL LAYOUT PRIOR INSTALLING EQUIPMENT.



2 TYPICAL MAIN TELECOMMUNICATIONS ROOM BACKBOARD AND RACK ELEVATION DETAIL
NOT TO SCALE

NOTE:

1. COORDINATE THE FINAL CONFIGURATION OF ALL RELAY RACKS AND CABINETS WITH SANFORD HIGH SCHOOL IT DEPARTMENT PRIOR TO THE INSTALLATION OF ANY CABLE.
2. SEE FLOOR PLAN DETAIL VIEW FOR LAYOUT. COORDINATE WITH SANFORD HIGH SCHOOL IT FOR FINAL LAYOUT PRIOR INSTALLING EQUIPMENT.

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CONTENT:
TELECOMMUNICATIONS DETAILS

DRAWN BY:	C. NEWELL
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DATE:	02/11/2016
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SCALE:	AS NOTED

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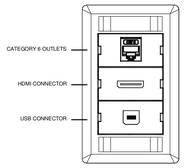
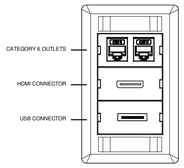
1 THE FOLLOWING NOTES ONLY APPLY TO THIS DRAWING.

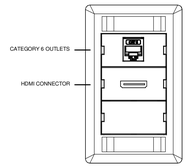
2 REFER TO GENERAL NOTES, ELECTRICAL TRADE NOTES, LEGEND AND ABBREVIATIONS ON DRAWING T0.01.



1 TYPICAL A1 PLATE LAYOUT
NOT TO SCALE
AV CABLING AND HARDWARE BY OTHERS



2 TYPICAL A2 PLATE LAYOUT
NOT TO SCALE
AV CABLING AND HARDWARE BY OTHERS



3 TYPICAL A3 PLATE LAYOUT
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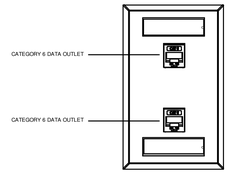
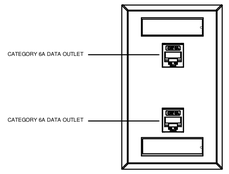
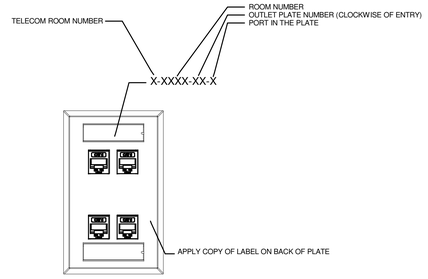
AV CABLING AND HARDWARE BY OTHERS



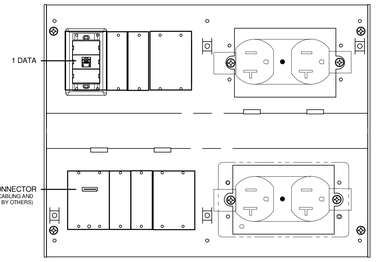
4 TYPICAL PLATE LAYOUT
NOT TO SCALE



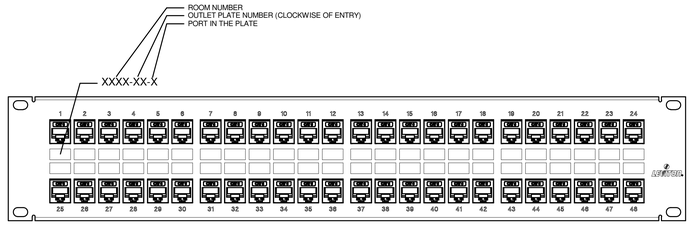
5 TYPICAL WIRELESS PLATE LAYOUT
NOT TO SCALE



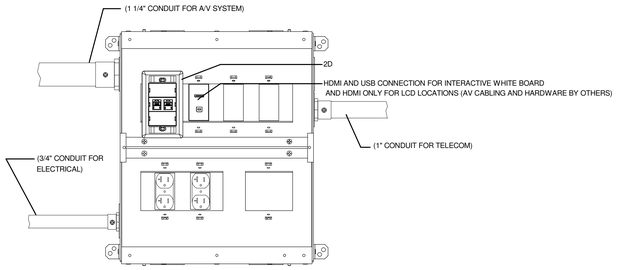
6 TYPICAL PLATE LABELING
NOT TO SCALE



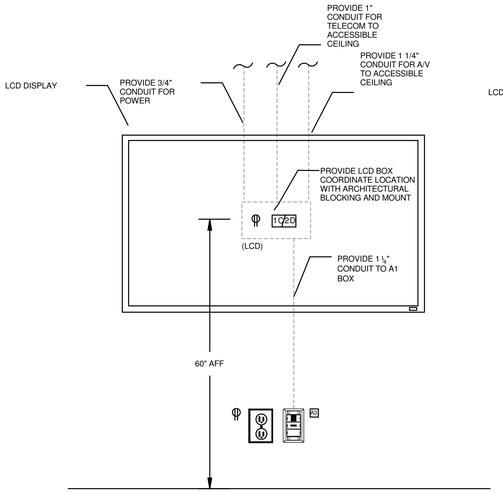
7 TYPICAL LCD BOX LAYOUT
NOT TO SCALE
AV CABLING BY OTHERS



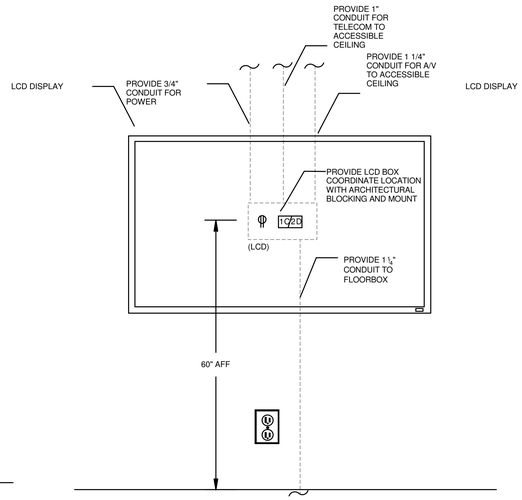
8 TYPICAL PATCH PANEL LABELING
NOT TO SCALE



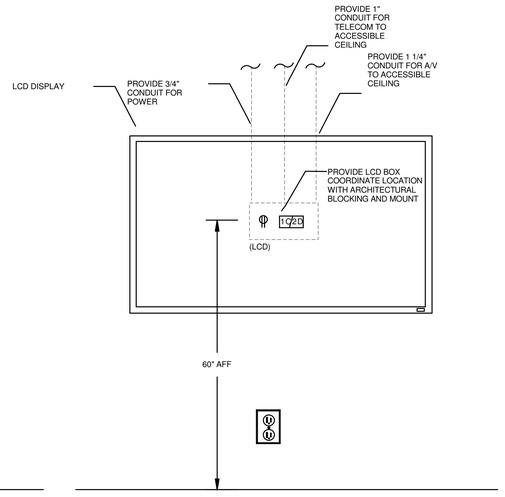
9 TYPICAL FLOOR BOX LAYOUT
NOT TO SCALE
AV CABLING BY OTHERS



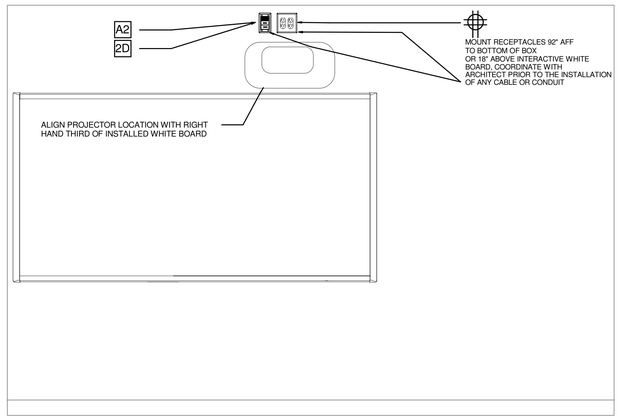
10 LCD DISPLAY LAYOUT DETAIL
NOT TO SCALE



11 CONFERENCE ROOM WITH FLOORBOX LCD DISPLAY LAYOUT DETAIL
NOT TO SCALE



12 CORRIDOR LCD DISPLAY LAYOUT DETAIL
NOT TO SCALE



13 INTERACTIVE WHITE BOARD LAYOUT DETAIL
NOT TO SCALE

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CONTENT:
TELECOMMUNICATIONS DETAILS

DRAWN BY:	C. NEWELL
PROJECT NO:	12-067-00
DATE:	02/11/2016
REVISED:	
SCALE:	AS NOTED

T3.02

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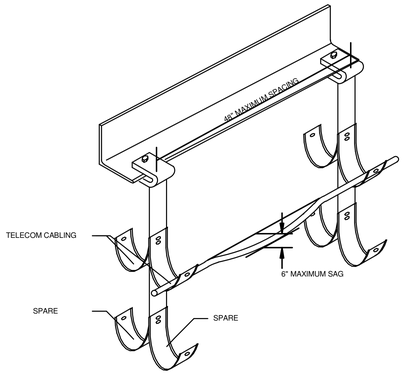
1 THE FOLLOWING NOTES ONLY APPLY TO THIS DRAWING.

2 REFER TO GENERAL NOTES, ELECTRICAL TRADE NOTES, LEGEND AND ABBREVIATIONS ON DRAWING T0.01.



1 TYPICAL J-HOOK DETAIL
NOT TO SCALE

1 MAXIMUM J-HOOK SPACING SHALL BE 4'-0" UTILIZE WHERE CABLE TRAY IS NOT INSTALLED.

2 COORDINATE J-HOOK ROUTING WITH HVAC CONTRACTOR TO AVOID CONFLICTS WITH DUCTWORK AND PIPING. RISE UP AND OVER OR BELOW DUCTWORK AS REQUIRED. REDUCE SPACING OF J-HOOKS AT ALL POINTS OF CHANGE OF ELEVATION AND CHANGE OF DIRECTION.

3 MAXIMUM SAG OF CABLE BUNDLE BETWEEN HOOKS SHALL BE 6". PROVIDE ADDITIONAL SUPPORT AS REQUIRED TO CORRECT CONDITION.

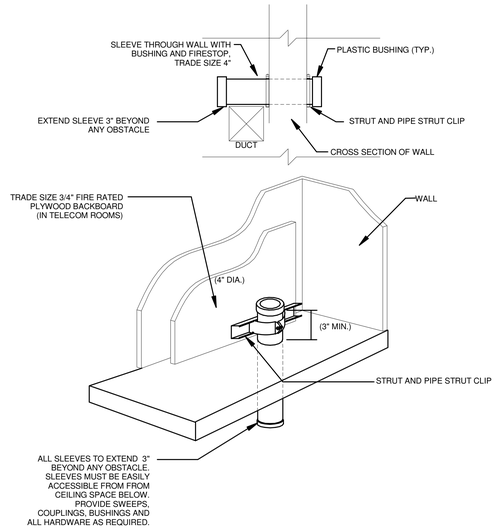
4 ALL J-HOOKS SHALL HAVE DEDICATED MECHANICAL SUPPORT. J-HOOKS SHALL NOT BE ATTACHED OR SUPPORTED BY CEILING, PIPING, MECHANICAL AND ELECTRICAL SYSTEM SUPPORTS OR EQUIPMENT. USE SUPPORTING DEVICES LISTED FOR USE BY MANUFACTURER. DROP CEILING SUPPORT WIRE IS NOT ACCEPTABLE.

5 CABLE BUNDLES SHALL BE TIED BY VELCRO EVERY THIRD HOOK ALONG THE J-HOOK PATH.

6 SPACES BETWEEN J-HOOKS SHALL BE CLEAR OF ALL OBSTRUCTIONS.

7 PROVIDE 4" CONDUIT SLEEVES OR FIRE RATED ASSEMBLY, QUANTITY AS REQUIRED, AT ALL POINTS WHERE J-HOOK ROUTING EXTENDS THROUGH WALLS IN CORRIDORS. FINISH ALL EDGES OF CONDUIT SLEEVE. PROVIDE INSULATED BUSHING ON BOTH SIDES OF THE WALL. PROVIDE FIREPROOFING OF CONDUIT SLEEVES AT ALL RATED WALLS AND FLOORS PER A UL LISTED ASSEMBLY.

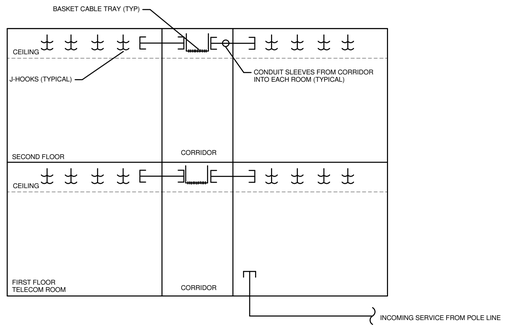
8 J HOOK PATHS SHALL BE PROVIDED IN ALL AREAS ABOVE ACCESSIBLE CEILINGS. COORDINATE PATH WITH ALL TRADES AND SYSTEMS ABOVE CEILING PRIOR TO INSTALLATION.



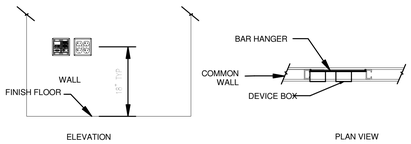
2 SLEEVE / CONDUIT DETAILS
NOT TO SCALE

NOTE:

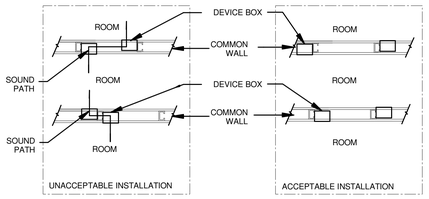
ALL CONDUITS AND SLEEVES SHALL BE FULLY FIRE STOPPED WITH AN ACCEPTED FIRE STOP ASSEMBLY SYSTEM.



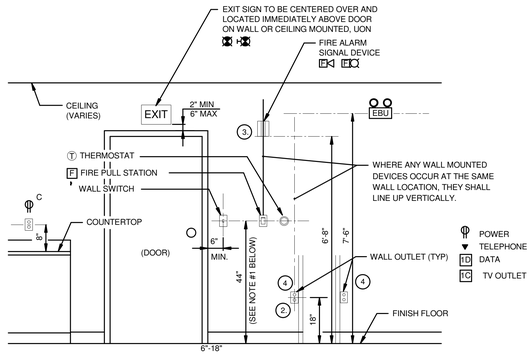
3 CONDUIT RISER DIAGRAM
NOT TO SCALE



MOUNTING OF ADJACENT ELECTRICAL AND TELECOMMUNICATIONS DEVICE BOXES



4 ACCEPTABLE DEVICE BOX MOUNTING LOCATION
NOT TO SCALE



5 TYPICAL DEVICE LOCATIONS
NOT TO SCALE

NOTE:

1 HEIGHT GIVEN FOR THIS DEVICE IS THE MAXIMUM HEIGHT TO THE HIGHEST OPERABLE PART OF THE DEVICE

2 WHERE ELECTRICAL DEVICES ARE LOCATED ON EXTERIOR WALLS ABOVE FINTUBE, MOUNT DEVICES ABOVE FINTUBE. MOUNTING HEIGHT SHALL BE MINIMUM 18" AFF OR 4" ABOVE TOP OF FINTUBE ENCLOSURE. COORDINATE FINTUBE LOCATIONS, SIZE AND MOUNTING HEIGHT WITH MECHANICAL CONTRACTOR.

3 MOUNT SIGNAL DEVICE WITH BOTTOM OF LENS AT 80" AFF.

4 WHERE LOCATED ON OPPOSITE SIDES OF COMMON WALLS, DEVICE BOXES SHALL NOT BE INSTALLED BACK-TO-BACK IN THE SAME STUD BAY. WHERE POSSIBLE, ALL BOXES SHALL BE ONE COMPLETE STUD BAY APART.

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Sanford School Department and State of Maine Department of Education

SANFORD HIGH SCHOOL and TECHNICAL CENTER

SANFORD, ME 04073

NO.	DESCRIPTION	DATE

CONTENT:
TELECOMMUNICATIONS DETAILS

DRAWN BY:	C. NEWELL
PROJECT NO:	12-067-00
DATE:	02/11/2016
REVISED:	
SCALE:	AS NOTED

T3.03

Project Phase
BID DOCUMENTS

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FOR ADDITIONAL INFORMATION, REFER TO PROJECT MANUAL.

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DRAWING NOTES

1 THE FOLLOWING NOTES ONLY APPLY TO THIS DRAWING.

2 REFER TO GENERAL NOTES, ELECTRICAL TRADE NOTES, LEGEND AND ABBREVIATIONS ON DRAWING T0.01.

FLOOR BOX SCHEDULE

DEVICE	TYPE/SIZE	DESCRIPTION	CONDUITS	COMMENTS	OUTLETS REQUIRED
A1	RECESSED FLOOR BOX SLAB ON GRADE TYPE 10" x 13-5/8" x 2 7/16"	WIREMOLD RESOURCE FLOOR BOX (RFB4E-OG) STEEL FOUR GANG BOX FOR INSTALLATION IN CONCRETE FLOORS. PROVIDE SURFACE STYLE COVER ASSEMBLY WITH TILE SHIMS USE IN CARPETED FLOORS, AND FLUSH STYLE COVER ASSEMBLY WITH TILE SHIMS FOR USE IN WOOD AND RESILIENT TILE INSTALLATION. INCLUDE TERAZZO RING WHERE FLOOR BOX WILL BE INSTALLED IN PORCELAIN TILE OR POLISHED CONCRETE FLOORS.	1 - 3/4"C POWER 1 - 1"C DATA	FOUR GANG CAPACITY FLOOR BOX, PROVIDE SCREW DOWN COVER AND DEVICE BRACKETS LISTED. PROVIDE QUANTITY AND LOCATIONS AS INDICATED ON PLANS.	TWO DUPLEX RECEPTACLES RFB-DR COVER FINISH TO BE SELECTED BY ARCHITECT. TWO BLANK PLATES RFB-B ONE DECORA DATA BRACKET RFB4GFI (2DATA OUTLETS)
A2	RECESSED FLOOR BOX SLAB ON GRADE TYPE 10" x 13-5/8" x 2 7/16"	WIREMOLD RESOURCE FLOOR BOX (RFB4E-OG) STEEL FOUR GANG BOX FOR INSTALLATION IN CONCRETE FLOORS. PROVIDE SURFACE STYLE COVER ASSEMBLY WITH TILE SHIMS USE IN CARPETED FLOORS, AND FLUSH STYLE COVER ASSEMBLY WITH TILE SHIMS FOR USE IN WOOD AND RESILIENT TILE FLOORS. INCLUDE TERAZZO RING WHERE FLOOR BOX WILL BE INSTALLED IN PORCELAIN TILE OR POLISHED CONCRETE FLOORS.	1 - 3/4"C POWER 1-1"C DATA	FOUR GANG CAPACITY FLOOR BOX, PROVIDE SCREW DOWN COVER AND DEVICE BRACKETS LISTED. PROVIDE QUANTITY AND LOCATIONS AS INDICATED ON PLANS. COORDINATE TEL/DATA, AND AV OUTLET INSTALLATION WITH TELECOM AND A/V CONTRACTOR.	TWO DUPLEX RECEPTACLES RFB-DR ONE DECORA DATA BRACKET RFB4GFI (4DATA OUTLETS) COVER FINISH TO BE SELECTED BY ARCHITECT. TWO BLANK PLATES RFB-B
A3	RECESSED FLOOR BOX SLAB ON GRADE TYPE 14-5/8"x 14"x 4"	WIREMOLD RESOURCE FLOOR BOX (RFB6E-OG) FOR INSTALLATION IN CONCRETE FLOORS. PROVIDE SURFACE STYLE COVER ASSEMBLY WITH TILE SHIMS FOR USE IN CARPETED FLOORS, AND FLUSH STYLE COVER ASSEMBLY WITH TILE SHIMS FOR USE IN WOOD AND RESILIENT TILE FLOORS. INCLUDE TERAZZO RING WHERE FLOOR BOX WILL BE INSTALLED IN PORCELAIN TILE OR POLISHED CONCRETE FLOORS	1 - 3/4"C POWER 1 - 1"C DATA 2 -1-1/4"C AV FUTURE	SIX GANG CAPACITY FLOOR BOX, PROVIDE SCREW DOWN COVER AND DEVICE BRACKETS LISTED. PROVIDE QUANTITY AND LOCATIONS AS INDICATED ON PLANS. COORDINATE TEL/DATA, AND AV OUTLET INSTALLATION WITH TELECOM AND A/V CONTRACTOR.	TWO DUPLEX RECEPTACLES RFB6DP ONE DECORA DATA BRACKET RFB6GFI (2 DATA OUTLETS) A1 INPUT PLATE (AV CONNECTIONS) TWO BLANK RFB6B COVER FINISH TO BE SELECTED BY ARCHITECT.
A4	RECESSED FLOOR BOX SLAB ON GRADE TYPE 14-5/8"x 14"x 4"	WIREMOLD RESOURCE FLOOR BOX (RFB6E-OG) FOR INSTALLATION IN CONCRETE FLOORS. PROVIDE SURFACE STYLE COVER ASSEMBLY WITH TILE SHIMS FOR USE IN CARPETED FLOORS, AND FLUSH STYLE COVER ASSEMBLY WITH TILE SHIMS FOR USE IN WOOD AND RESILIENT TILE FLOORS. INCLUDE TERAZZO RING WHERE FLOOR BOX WILL BE INSTALLED IN PORCELAIN TILE OR POLISHED CONCRETE FLOORS	1 - 3/4"C POWER 1 - 1"C DATA 2 -1-1/4"C AV	SIX GANG CAPACITY FLOOR BOX, PROVIDE SCREW DOWN COVER AND DEVICE BRACKETS LISTED. PROVIDE QUANTITY AND LOCATIONS AS INDICATED ON PLANS. COORDINATE TEL/DATA, AND AV OUTLET INSTALLATION WITH TELECOM AND A/V CONTRACTOR.	TWO DUPLEX RECEPTACLES RFB6DP ONE DECORA DATA BRACKET RFB6GFI (2 DATA, 1 VOICE, AND 1 CATV OUTLET) TWO DECORA A/V BRACKET RFB6GFI ONE BLANK RFB6B COVER FINISH TO BE SELECTED BY ARCHITECT. 1 - 11/4" CONDUIT TO CONNECT TO SCOREBOARD
B1	FIRE RATED RECESSED POKE THRU DEVICE	WIREMOLD EVOLUTION SERIES (8AT) FIRE RATED POKE THRU FOR INSTALLATION IN CONCRETE FLOORS. PROVIDE SURFACE STYLE COVER ASSEMBLY AND TILE SHIMS FOR USE IN CARPETED FLOORS, AND FLUSH STYLE COVER ASSEMBLY WITH TILE SHIMS FOR FOR USE IN WOOD, RESILIENT TILE, AND POLISHED CONCRETE FLOORS.	1 - 3/4"C POWER 1 - 1"C DATA 1 - 2"C AV DATA	FOUR GANG CAPACITY POKE THRU, PROVIDE SCREW DOWN COVER AND 2", 3/4", AND 1" BOTTOM HOUSING ASSEMBLIES AND DEVICE BRACKETS LISTED. PROVIDE QUANTITY AND LOCATIONS AS INDICATED ON PLANS. COORDINATE TEL/DATA OUTLET INSTALLATION WITH TELECOM CONTRACTOR.	TWO DUPLEX POWER RECEPTACLES 68REC (ONE PER SIDE) ONE DECORA DATA DEVICE PLATE 8DEC (2 DATA OUTLETS) COVER FINISH TO BE SELECTED BY ARCHITECT. A1 INPUT PLATE (AV CONNECTIONS)
B2	FIRE RATED RECESSED POKE THRU DEVICE	WIREMOLD EVOLUTION SERIES (6AT) FIRE RATED POKE THRU FOR INSTALLATION IN CONCRETE FLOORS. PROVIDE SURFACE STYLE COVER ASSEMBLY AND TILE SHIMS FOR USE IN CARPETED FLOORS, AND FLUSH STYLE COVER ASSEMBLY WITH TILE SHIMS FOR FOR USE IN WOOD, RESILIENT TILE, AND POLISHED CONCRETE FLOORS.	1 - 3/4"C POWER 1-2" C AV/DATA	THREE GANG CAPACITY POKE THRU, PROVIDE SCREW DOWN COVER , (1) 3/4", (1-1/4", AND (1) BLANK BOTTOM HOUSING ASSEMBLIES AND DEVICE BRACKETS LISTED. PROVIDE QUANTITY AND LOCATIONS AS INDICATED ON PLANS.	TWO DUPLEX POWER RECEPTACLES 68REC (ONE PER SIDE) BLANK PLATE 6B FOR CENTER COMPARTMENT COVER FINISH TO BE SELECTED BY ARCHITECT. ONE DECORA DATA BRACKET RFB4GFI (4DATA OUTLETS)
B3	FIRE RATED RECESSED POKE THRU DEVICE	WIREMOLD EVOLUTION SERIES (6AT) FIRE RATED POKE THRU FOR INSTALLATION IN CONCRETE FLOORS. PROVIDE SURFACE STYLE COVER ASSEMBLY AND TILE SHIMS FOR USE IN CARPETED FLOORS, AND FLUSH STYLE COVER ASSEMBLY WITH TILE SHIMS FOR FOR USE IN WOOD, RESILIENT TILE, AND POLISHED CONCRETE FLOORS.	1 - 3/4"C POWER 1-2" C AV/DATA	THREE GANG CAPACITY POKE THRU, PROVIDE SCREW DOWN COVER , (1) 3/4", (1-1/4", AND (1) BLANK BOTTOM HOUSING ASSEMBLIES AND DEVICE BRACKETS LISTED. PROVIDE QUANTITY AND LOCATIONS AS INDICATED ON PLANS.	TWO DUPLEX POWER RECEPTACLES 68REC (ONE PER SIDE) COVER FINISH TO BE SELECTED BY ARCHITECT. ONE DECORA DATA DEVICE PLATE 8DEC (2 DATA OUTLETS)
D1	FURNITURE FEED RECESSED FLOOR BOX SLAB ON GRADE TYPE 4 13/16"X4 13/16"X3 1/2"	WIREMOLD 880 SERIES FLOOR BOX (889B) STAMPED STEEL, DOUBLE GANG BOX FOR INSTALLATION IN CONCRETE FLOORS. PROVIDE SURFACE STYLE COVER ASSEMBLY WITH TILE SHIMS FOR USE IN CARPETED FLOORS, AND FLUSH STYLE COVER ASSEMBLY WITH TILE SHIMS FOR USE IN WOOD AND RESILIENT TILE INSTALLATION. INCLUDE TERAZZO RING WHERE FLOOR BOX WILL BE INSTALLED IN PORCELAIN TILE OR POLISHED CONCRETE FLOORS.	1 - 1"C POWER	DOUBLE GANG BOX, PROVIDE SCREW DOWN BRASS COVER WITH TAPPED HOLE FOR FURNITURE FEED PROVIDE QUANTITY AND LOCATIONS AS INDICATED ON PLANS.	FURNITURE FEED COVER PLATE FOR CONNECTION BY ELECTRICAL CONTRACTOR COVER FINISH TO BE SELECTED BY ARCHITECT.
D2	RECESSED FLOOR BOX SLAB ON GRADE TYPE 10" x 13-5/8" x 2 7/16"	WIREMOLD RESOURCE FLOOR BOX (RFB4E-OG) STEEL FOUR GANG BOX FOR INSTALLATION IN CONCRETE FLOORS. PROVIDE SURFACE STYLE COVER ASSEMBLY WITH TILE SHIMS USE IN CARPETED FLOORS, AND FLUSH STYLE COVER ASSEMBLY WITH TILE SHIMS FOR USE IN WOOD AND RESILIENT TILE FLOORS. INCLUDE TERAZZO RING WHERE FLOOR BOX WILL BE INSTALLED IN PORCELAIN TILE OR POLISHED CONCRETE FLOORS.	1 - 3/4"C POWER 1-1"C DATA	FOUR GANG CAPACITY FLOOR BOX, PROVIDE SCREW DOWN COVER AND DEVICE BRACKETS LISTED. PROVIDE QUANTITY AND LOCATIONS AS INDICATED ON PLANS. COORDINATE TEL/DATA, AND AV OUTLET INSTALLATION WITH TELECOM AND A/V CONTRACTOR.	TWO DUPLEX RECEPTACLES RFB-DR EACH ON OWN CIRCUIT ONE DECORA DATA BRACKET RFB4GFI (4DATA OUTLETS) COVER FINISH TO BE SELECTED BY ARCHITECT. TWO BLANK PLATES RFB-B
R1	CAST IRON THEATER SEATING FLOOR BOX	HUBBELL CAT #3185 NONADJUSTABLE. PROVIDES 3/4" THREADED HUB FOR CONDUIT CONNECTION TO THEATER AISLE LIGHTS. CAST IRON BOX WITH CORROSION-RESISTANT FINISH	1-3/4"C POWER	PERMITS OPENING OF THE ENCLOSURE FOR WIRING WITHOUT DISTURBING ABOVE FLOOR CONNECTIONS. BLANK STEEL COVER.	
S1	RECESSED FLOOR BOX POKE THRU DEVICE POUR IN PLACE 4 13/16"X4 13/16"X3 1/2"	WIREMOLD 880 SERIES FLOOR BOX (889B) CAST IRON, DOUBLE GANG BOX FOR INSTALLATION IN CONCRETE FLOORS. PROVIDE SURFACE STYLE COVER ASSEMBLY WITH TILE SHIMS FOR USE IN CARPET FLOORS, AND FLUSH STYLE COVER ASSEMBLY WITH TILE SHIMS FOR USE IN WOOD AND RESILIENT TILE INSTALLATION.	1 - 3/4"C POWER 1-1" C DATA	DOUBLE GANG BOX, PROVIDE SCREW DOWN COVER PROVIDE QUANTITY AND LOCATIONS AS INDICATED ON PLANS.	ONE DUPLEX POWER RECEPTACLE WITH USB COVER FINISH TO BE SELECTED BY ARCHITECT. PROVIDE DECORA TYPE FRAME FOR TELECOM (2 DATA OUTLETS)
W1	RECESSED FLOOR BOX WOOD FLOOR TYPE	WIREMOLD RFB6 OR FSR FL500P FOR INSTALLATION IN WOOD FLOORS. PROVIDE SURFACE STYLE COVER ASSEMBLY	1-3/4"C POWER 1 - 1"C DATA 2 -1-1/4"C AV	SIX GANG CAPACITY FLOOR BOX, PROVIDE SCREW DOWN COVER AND DEVICE BRACKETS LISTED. PROVIDE QUANTITY AND LOCATIONS AS INDICATED ON PLANS. COORDINATE TEL/DATA, AND AV OUTLET INSTALLATION WITH TELECOM AND A/V CONTRACTOR.	TWO DUPLEX RECEPTACLES RFB6DP ONE DECORA DATA BRACKET RFB6GFI (2 DATA OUTLETS) COVER FINISH TO BE SELECTED BY ARCHITECT.
NOTES:	1. DATA AND AV CONDUITS SHALL BE STUBBED TO ACCESSIBLE CEILING AREA, COORDINATE WITH IT CONTRACTOR AND AV DRAWINGS. 2. COORDINATE THE LOCATION OF ALL FLOOR BOXES WITH THE ARCHITECT PRIOR TO INSTALLATION. 3. CAST IRON FLOOR BOXES SHALL BE INSTALLED IN INSTALLATIONS AT GRADE, PER NEC. 4. STAMPED STEEL FLOOR BOXES SHALL BE INSTALLED IN INSTALLATIONS ABOVE GRADE, PER NEC. 5. CONTRACTOR SHALL ENSURE BOX IS AS FLUSH AND LEVEL WITH FLOOR AS POSSIBLE UPON INSTALLATION				

WALL BOX SCHEDULE

DEVICE	TYPE/SIZE	DESCRIPTION	CONDUITS	COMMENTS	OUTLETS REQUIRED
LCD	FLAT PANEL DISPLAY WALL BOX 11"x5.25"x3.5"	FSR INC PWB-100-WHT	1 - 3/4"C POWER 1 - 1"C DATA 1 - 1 1/4"C AV	FLAT PANEL DISPLAY BOX AT FLAT PANEL LOCATION QUANTITY AND LOCATION AS INDICATED ON PLANS.	TWO DUPLEX POWER OUTLETS ONE DATA OUTLET A2 INPUT PLATE (AV CONNECTIONS) SEE DETAIL SHEET T0.12 WHERE REQUIRED
NOTES:	1. DATA AND AV CONDUITS SHALL BE STUBBED TO ACCESSIBLE CEILING AREA, COORDINATE WITH IT CONTRACTOR AND AV DRAWINGS. 2. COORDINATE THE LOCATION OF ALL WALL BOXES WITH THE ARCHITECT PRIOR TO INSTALLATION.				

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SANFORD HIGH SCHOOL and TECHNICAL CENTER

SANFORD, ME 04073

NO.	DESCRIPTION	DATE

FOR ADDITIONAL INFORMATION, REFER TO PROJECT MANUAL.

CONTENT:

TELECOMMUNICATIONS SCHEDULES

DRAWN BY:	C. NEWELL
PROJECT NO:	12-067-00
DATE:	02/11/2016
REVISED:	
SCALE:	NO SCALE

T4.01

Project Phase

BID DOCUMENTS

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CAFETERIA AND CULINARY KITCHENS SCHEDULE OF FOODSERVICE EQUIPMENT AND CONNECTIONS

Item	Qty	Description	Plumbing	Electrical
1	1	Mop sink (by PC)	1/2" H&CW; Drain in floor	
2	1	Mop rack/utility shelf		
3	-	spare number		
4	1	Detergent storage cabinet		
5	1	Stacked clothes washer/dryer	1/2" H&CW; Standpipe W; 4" dia. dryer vent	30 A circuit - 120/208/1 - C&P; 20 A circuit - 120/1 - C&P
6	-	spare number		
7	24	Dry storage shelving		
8	4	Utility carts		
9	3	Dunnage racks		
9A	2	Mobile dunnage racks		
10	8	Staff lockers (by GC)		
11	1	Wall phone (by GC)		Data and 120/1 power as required
12	1	Walk-in cooler		1.3 KW - 120/1 (lights, monitor/alarm, etc.)
13	1	Walk-in freezer		1.5 KW - 120/1 (lights, monitor/alarm, etc.); 20 A circuit - 120/1 DR (heat trace)
14	2	Remote refrigeration systems		
		cooler condensing unit		5.9 A - 208/3
		cooler evaporator coil	1" IW to FD	2 A - 120/1
		freezer condensing unit		14.4 A - 208/3
		freezer evaporator coil	1" IW to FD	11.9 A - 208/1
15	24	Mobile shelving units		
16	1	Prep counter with sinks	1/2" H&CW; (2) 2" IW to FS	(2) 20 A circuit - 120/1 wall mounted DR
17	2	Wall shelf		
18	4	Waste barrels (by Owner)		
19	5	Hand sinks	1/2" H&CW; 1-1/2" W	
20	5	Waste bins (by Owner)		
21	4	Mobile pan racks		
22	-	spare number		
23	-	spare number		
24	1	Mobile mixer stand		
25	1	Twenty-quart mixer		8 A - 120/1 - C&P
26	1	Mobile slicer stand		
27	1	Automatic slicer		5 A - 120/1 - C&P
28	1	Sixty-quart mixer		10 A - 208/3
29	1	Baker's table with overshelf		
30	3	Ingredient bins		
31	1	Prep counter with sinks	1/2" H&CW; (2) 2" IW to FS	(2) 20 A circuit - 120/1 wall mounted DR
32	1	Microwave oven		16 A - 120/1 - C&P
33	1	Forty-gallon braising pan	1/2" G @ 144 MBTU (from Item 44)	5 A - 120/1 (from Item 44)
34	1	Floor pan & grate	3" W conn 7" below floor	
35	1	Forty-gallon tilt kettle	1/2" G @ 100 MBTU (from Item 44)	5 A - 120/1 (from Item 44)
36	1	Floor pan & grate	3" W conn 7" below floor	
37	1	Four-burner range with oven	3/4" G @ 136 MBTU (from Item 44)	0.1 A - 120/1 - C&P (from Item 44)
38	1	Double combination oven	(2) 3/4" G @ 115 MBTU QD (from Item 44); 3/4" CW (from Item 39); 3/4" CW (from Item 44); 2" IW to FS	(2) 12 A - 120/1 - C&P (from Item 44)
39	1	Water filter	3/4" CW (from Item 44)	
40	2	Double convection oven	3/4" G @ 100 MBTU QD (from Item 44)	(2) 8 A - 120/1 - C&P (from Item 44)
41	1	Exhaust ventilator COLLAR LEFT: 3,780 CFM EXH thru a 10" x 36" collar @ 1.107" SP COLLAR RIGHT: 3,375 CFM EXH thru a 10" x 32" collar @ 1.029" SP		Power to lights from Item 42
42	1	Ventilator control system		20 A circuit - 120/1
43	1	Fire suppression system		20 A circuit - 120/1; J-Box for conn to building alarm system & equipment shutdown
44	1	Utility distribution system	2" G @ 810 MBTU; 1" H&CW	50 A circuit - 120/208/3
45	1	Utility faucet	1/2" HW (from Item 44)	
46	-	spare number		
47	1	Cook's table w/ sink and overshelf	1/2" H&CW; 2" IW to FS	(2) 20 A circuit - 120/1 mounted DR by KEC
48	1	Can opener		
49	-	spare number		
50	1	Work table		(2) 20 A circuit - 120/1 mounted DR by KEC
51	1	Food processor		12 A - 120/1 - C&P (from DR at Item 50)
52	2	Work tables		(2) 20 A circuit - 120/1 mounted DR by KEC
53	2	Ceiling mounted utensil racks		
54	3	Mobile work tables		
55	1	Mobile work table		
56	1	Pass-thru refrigerator		8.6 A - 120/1 - C&P
57	3	Mobile hot food holding cabinets		13.75 A - 120/1 - C&P (power for one unit from DR at Item 50)
58	1	Reach-in refrigerator		8.2 A - 120/1 - C&P
59	1	Deli serving counter		(2) 20 A circuit - 120/1 mounted DR by KEC; 20 A circuit - 120/1 mounted NEMA L5-15R by KEC
60	2	Mechanical cold pans	1" IW to FS	6.3 A - 120/1 - C&P (from DR at Item 59)
61	2	Convertible sneeze guards		
62	1	Drop cord		20 A circuit - 120/1
63	-	spare number		
64	2	Cutting boards		
65	2	Refrigerated grab-n-go display cases		7 A - 120/1 - C&P (NEMA L5-15P from SR at serving counter)
66	1	Hot entrée serving counter		(3) 20 A circuit - 120/1 mounted DR by KEC
67	4	Hot food wells (mounted in group)	1" IW to FS	4.0 KW - 208/1 (total for group of four wells)
68	1	Protector case		
69	1	Fill faucet	1/2" HW	
70	2	Soup wells	1/2" IW to FS	825 watts - 120/1 - C&P (from DR at Item 66)

Item	Qty	Description	Plumbing	Electrical
71	-	spare number		
72	-	spare number		
73	1	Pizza serving counter		(4) 20 A circuit - 120/1 mounted DR by KEC; 20 A circuit - 120/1 mounted NEMA L5-15R by KEC
74	1	Heated display surface		1.44 KW - 120/1 - C&P (from DR at Item 73)
75	1	Convertible sneeze guard with heat lamp		1.725 KW - 208/1
76	2	Heated sandwich slides		11.3 A - 120/1 - C&P (from DR at Item 73)
77	-	spare number		
78	-	spare number		
79	1	Salad bar counter		(2) 20 A circuit - 120/1 mounted DR by KEC
80	1	Mechanical cold pan	1" IW to FS	7.4 A - 120/1 - C&P (from DR at Item 79)
81	1	Sneeze guard		
82	2	Refrigerated grab-n-go display cases		10.23 A - 208/1 - C&P (NEMA 6-20P)
83	2	Mobile cashier stand		
84	2	Mobile cashier stands		
85	4	Cashier terminals (by Owner)		120/1 - C&P; Data cable
86	2	Mobile condiment counters		
87	4	Snack racks (by Owner's Vendor)		
88	1	Three compartment sink	(2) 3/4" 120°FH&CW; (3) 2" W manifold thru GI by PC	
89	1	Soiled ware table with sink		
90	1	Wall shelf		
91	1	Roll-down shutter		
92	1	Disposer	1/2" CW; 2" W	6.6 A - 208/3
93	1	Hose reel assembly	1/2" H&CW	
94	1	Warewasher	3/4" 140°FH&CW; 1-1/2" IW to FS	131 A - 208/3
95	2	Exhaust ducts COLLARS: 300 & 700 CFM EXH thru 4" x 16" collars @ 0.25" SP. EC to wire exhaust fan interlock with warewasher operation		
96	1	Clean ware table		
97	3	Mobile utensil racks		
98-115	-	spare number		
116	1	Walk-in cooler		1.3 KW - 120/1 (lights, monitor/alarm, etc.)
117	1	Walk-in freezer		1.5 KW - 120/1 (lights, monitor/alarm, etc.); 20 A circuit - 120/1 DR (heat trace)
118	2	Remote refrigeration systems		
		cooler condensing unit		7.8 A - 208/1
		cooler evaporator coil	1" IW to FD	2 A - 120/1
		freezer condensing unit		11.3 A - 208/3
		freezer evaporator coil	1" IW to FD	8.2 A - 208/1
119	18	Mobile shelving units		
120	-	spare number		
121	2	Utility carts		
122	19	Dry storage shelving		
123	1	Prep counter with sinks	1/2" H&CW; 2" IW to FS	(2) 20 A circuit - 120/1 wall mounted DR
124	1	Wall shelf		
125	-	spare number		
126	1	Accessible hand sink	1/2" H&CW; 1-1/2" W	
127	1	Trash barrel (by Owner)		
128	3	Mobile work tables		
129	1	Exhaust ventilator COLLARS: 3,375 total CFM EXH thru (2) 10" x 16" collars @ 0.585" SP		Power to lights from Item 130
130	1	Ventilator control system		20 A circuit - 120/1
130A	1	Ventilator control interface		
131	1	Deck oven (four decks)	1/2" CW; 1/2" IW to FD	72 A - 208/3
132	1	Double convection oven	3/4" G @ 100 MBTU	(2) 8 A - 120/1 - C&P
133	1	Four-burner range w/ oven	3/4" G @ 136 MBTU	0.1 A - 120/1 - C&P
134	1	Forty-quart kettle with drain stand	1/2" G @ 52 MBTU; 1/2" H&CW; 1-1/2" IW to FS	1 A - 120/1
135	1	Exhaust ventilator COLLAR LEFT: 2,550 CFM EXH thru a 10" x 22" collar @ 0.887" SP COLLAR RIGHT: 1,912 CFM EXH thru a 10" x 18" collar @ 0.621" SP		Power to lights from Item 143
136	2	Fire suppression systems		J-Box for conn to building alarm system & equipment shutdown
137	1	Utility distribution system	2" G @ 600 MBTU; 1" H&CW	50 A circuit - 120/208/3
138	1	Griddle range with cabinet base	1" G @ 60 MBTU (from Item 138)	
139	1	Two-burner/hot top range with cabinet base	1" G @ 100 MBTU (from Item 138)	
140	1	Four-burner range with oven	1" G @ 160 MBTU (from Item 138)	
141	1	Upright broiler w/ oven base	3/4" G @ 120 MBTU (from Item 138)	
142	1	Fryer assembly with dump station, heat lamp, and filter drawer	1" G @ 160 MBTU (from Item 138)	1.7 A - 120/1 - C&P (from Item 138); 7 A - 120/1 - C&P (from Item 138); 6.3 A - 120/1 - C&P (from Item 138)
143	1	Ventilator control system		20 A circuit - 120/1
144	-	spare number		
145	-	spare number		
146	1	Chef's counter assembly with overshelf		150 A circuit - 120/208/1 (main breaker panel)
146A	2	Soup wells	1/2" IW to FS	power from main breaker
146B	1	Raised rail prep refrigerator		power from main breaker
146C	1	Hot food table	1/2" HW; 1" IW to FS	power from main breaker
146D	1	Work sink	1/2" H&CW; 2" IW to FS	
146E	1	Refrigerated base		power from main breaker
146F	1	Raised rail prep refrigerator		power from main breaker
146G	1	Drop-in ice cream freezer		power from main breaker
146H	1	Dipper well	1/2" CW; 1/2" IW to FS	

Item	Qty	Description	Plumbing	Electrical
146I	2	Heat lamps		power from main breaker
146J	3	POS printers (by Owner)		power from main breaker; Data cable
147	2	Reach-in refrigerators		7 A - 120/1 - C&P
148	8	Mobile shelving		
149	7	Storage shelving		
150	6	Hand sinks	1/2" H&CW; 1-1/2" W	
151	7	Waste bins (by Owner)		
152	1	Accessible prep station with sink	1/2" H&CW; 2" IW to FS	(3) 20 A circuit - 120/1 wall mounted DR
153	1	Wall shelf with pot rack		
154	4	Five-quart mixers		2.9 A - 120/1 - C&P (from DR at Item 152)
155	1	Sixty-quart mixer		10 A - 208/3
156	1	Fill faucet	1/2" H&CW	
157	3	Mobile mixer stands		
158	3	Twenty-quart mixers		8 A - 120/1 - C&P (power for one from Item 165)
159	3	Stainless steel column enclosures (one enclosure not shown on plan - located in Room D150 at Column D-2, D-A1)		
160	1	Proofer cabinet		13.75 A - 120/1 - C&P
161	1	Dough divider/rounder		8 A - 120/1 - C&P
162	1	Scale with mobile stand		
163	6	Maple top tables		
164	12	Ingredient bins		
165	17	Drop cords		20 A circuit - 120/1
166	5	Mobile pan racks		
167	1	Mobile demonstration counter with mirror		
168	1	Mobile work table		
169	1	Clothes washer	1/2" H&CW; 1-1/2" Standpipe W	20 A circuit - 120/1 - C&P
170	1	Clothes dryer	4" diameter dryer vent	30 A circuit - 120/208/1 - C&P
171	1	Mop sink (by PC)	1/2" H&CW; Drain in floor	
172	1	Mop rack/utility shelf		
173	1	Detergent storage cabinet		
174	1	Ice maker with bin	3/8" CW from Item 175; (2) 3/4" IW to Item 176	15.2 A - 120/1
175	1	Water filter	1/2" CW	
176	1	Floor pan & grate	3" W conn 7" below floor	
177	1	Mobile slicer stand		
178	1	Slicer		5 A - 120/1 - C&P (from Item 165)
179	8	Work tables		
180	-	spare number		
181	1	Three-compartment sink	(2) 3/4" 120°F H&CW; (3) 2" W manifold thru GI by PC	
182	1	Wall shelf		
183	-	spare number		
184	1	Soiled ware landing table	2" W	
185	1	Rack sorting shelf		
186	1	Hose reel assembly	1/2" H&CW	
187	1	Warewasher	3/4" 140°FH&CW; 1-1/2" IW to FS	131 A - 208/3
188	2	Exhaust ducts COLLARS: 300 & 700 CFM EXH thru 4" x 16" collars @ 0.25" SP. EC to wire exhaust fan interlock with warewasher operation		
189	1	Clean ware table		
190	2	Bussing carts		
191	-	spare number		
192	-	spare number		
193	1	Millwork counter (by GC)		(4) 20 A circuit - 120/1 mounted DR
194	1	Reach-in refrigerator		7 A - 120/1 - C&P
195	1	Reach-in freezer		9.4 A - 120/1 - C&P
196	1	Combination display case		10.72 A - 120/1 - C&P (NEMA L5-15P)
197	1	Work counter with sink	1/2" H&CW; 2" IW to FS	(2) 20 A circuit - 120/1 wall mounted DR
198	1	Wall shelf		
199	1	Conveyor toaster		10.7 A - 208/1 - C&P (NEMA 6-15P)
200	1	Coffee brewer	1/2" CW	23 A - 208/1
201	-	spare number		
202	-	spare number		
203	-	spare number		
204	-	spare number		

Abbreviations used:

A	Amperes	EXH	Exhaust	IW	Indirect waste
AFF	Above finished floor	FD	Floor drain	KEC	Kitchen Equip. Contractor
BFF	Below finished floor	FFD	Funnel floor drain	KW	Kilowatt
BTC	Branch to connection	FHW	Fahrentheit hot water	MBTU	BTU per hour/1000
C&P	Cord & plug provided	FS	Floor sink	MUA	Make-up air
CFM	Cubic feet per minute	G	Gas	PC	Plumbing Contractor
CR	Condensate return	GC	General Contractor	QD	Quick disconnect
CW	Cold water	GI	Grease interceptor	SP	Static pressure (WG)
DFA	Drop from above	HP	Horsepower	SR	Single receptacle
DR	Duplex receptacle	HW	Hot water	SS	Steam supply
EC	Electrical contractor	H&CW	Hot & cold water	W	Waste (direct connection)

Notes: Following apply to all Foodservice Equipment Drawings.
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The Kitchen Equipment Contractor shall provide accurate 1/4"=1'-0" stub-outs plans showing exact sizes and locations of all service stubs through walls and/or floors. Services of fixtures shall shall come out of walls whenever possible allowing clearance for traps, valves, switches, and the like.

Traps, drainlines, grease interceptors, shut-off valves and connecting piping shall be provided and installed by the Plumbing Sub-Contractor.

Conduit, junction boxes, outlets, disconnects, and connecting wiring shall be provided and installed by the Electrical Sub-Contractor. Interwiring of refrigeration components and remote controls such as found on a garbage disposer shall be installed by the Electrical Sub-Contractor.

Blowers, ductwork and duct connections shall be provided and installed by the Heating and Ventilation Sub-Contractor. Controls for such systems shall be provided and installed by the specified sub-contractor.

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SANFORD HIGH SCHOOL and TECHNICAL CENTER

SANFORD, ME 04073

NO.	DESCRIPTION	DATE

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FOR ADDITIONAL INFORMATION, REFER TO PROJECT MANUAL.

CONTENT:
CAFETERIA AND CULINARY KITCHENS FOODSERVICE EQUIPMENT SCHEDULE

DRAWN BY: RM
PROJECT NO: 12-067-00
DATE: 2/11/2016
REVISED:
SCALE:

K0.1

Project Phase
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CAFETERIA KITCHEN FOODSERVICE EQUIPMENT PLAN

1/4" = 1'-0"

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CONTENT:

CAFETERIA KITCHEN FOODSERVICE EQUIPMENT PLAN

DRAWN BY:	RM
PROJECT NO:	12-067-00
DATE:	2/11/2016
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SCALE:	1/4" = 1'-0"

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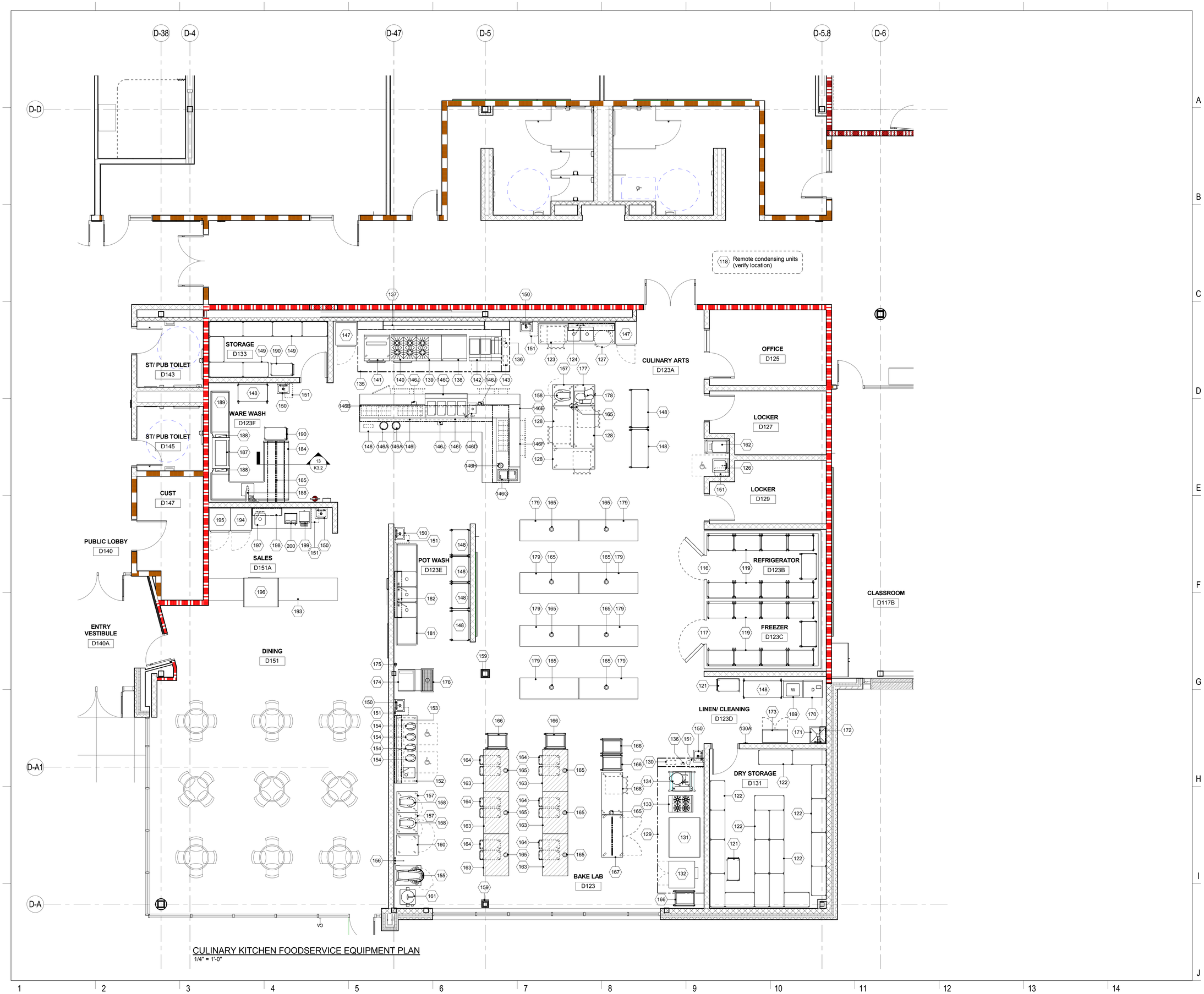

CULINARY KITCHEN FOODSERVICE EQUIPMENT PLAN
1/4" = 1'-0"

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CONTENT:
CULINARY KITCHEN FOODSERVICE EQUIPMENT PLAN

DRAWN BY:	RM
PROJECT NO:	12-067-00
DATE:	2/11/2016
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SCALE:	1/4" = 1'-0"

K1.2

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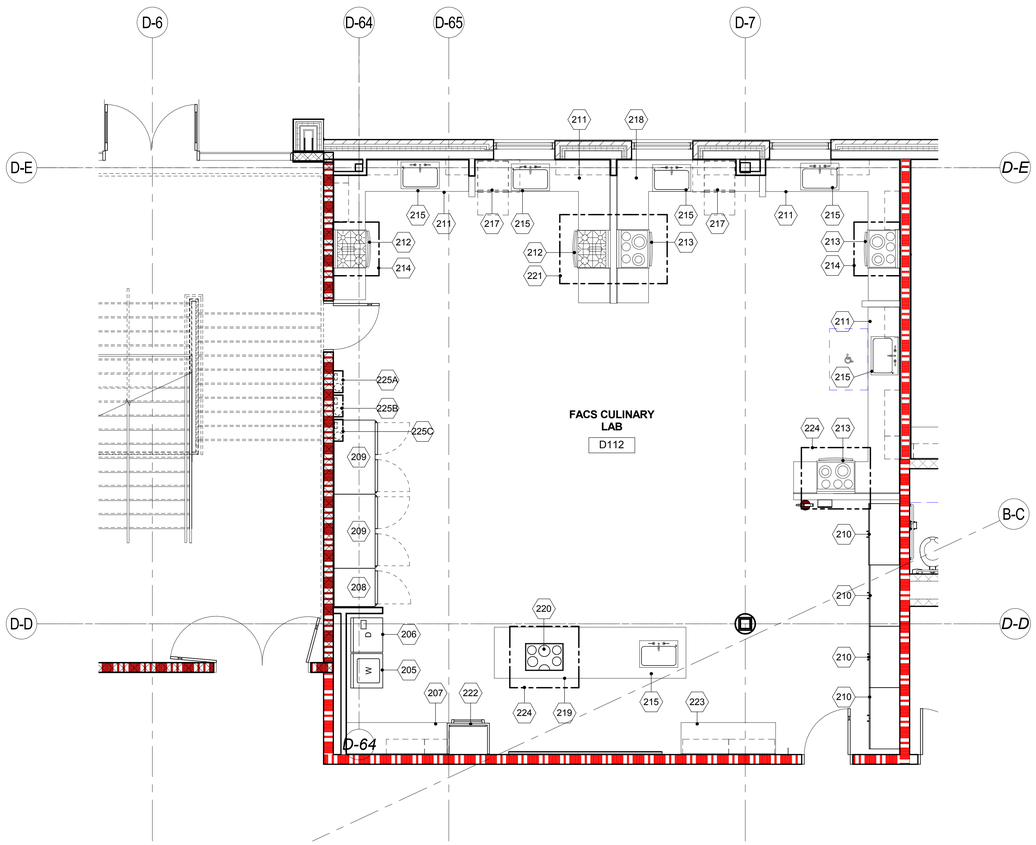
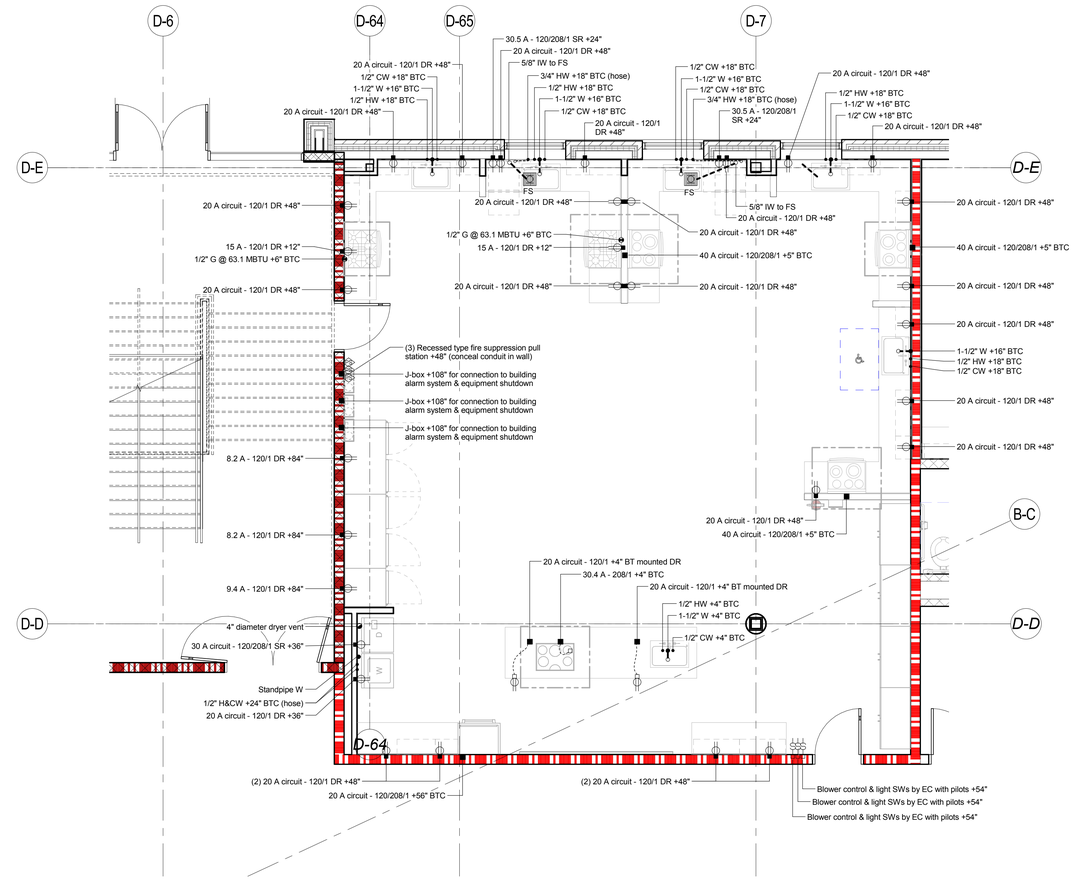
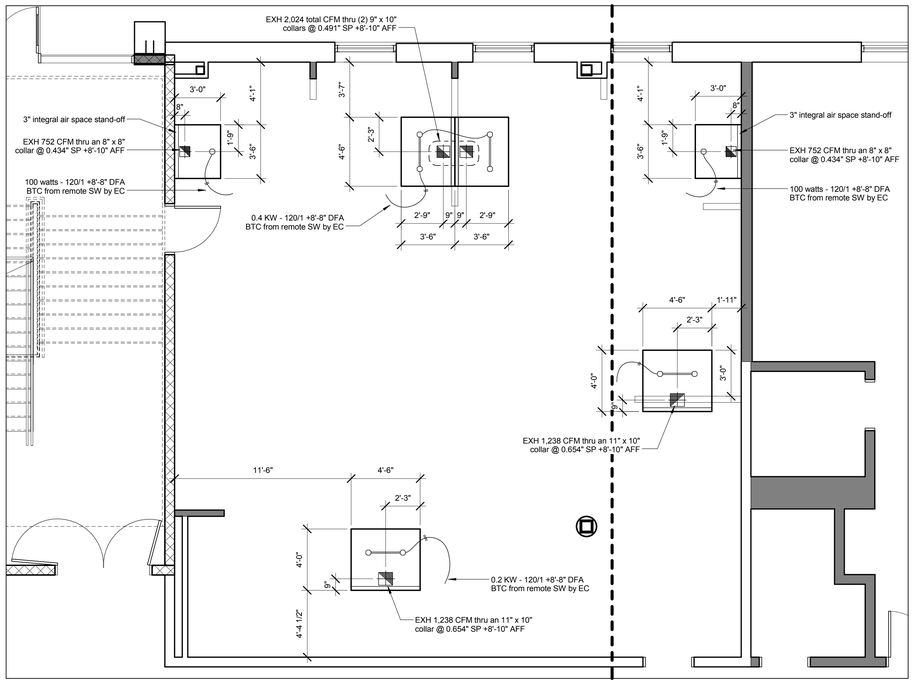


FACS CULINARY LAB FOODSERVICE EQUIPMENT PLAN
1/4" = 1'-0"



FACS CULINARY LAB FOODSERVICE EQUIPMENT ROUGH-IN PLAN
1/4" = 1'-0"



1 / K1.3 Detail - Exhaust Ventilators
1/4" = 1'-0"

FACS CULINARY LAB SCHEDULE OF FOODSERVICE EQUIPMENT AND CONNECTIONS

Item	Qty	Description	Plumbing	Electrical
205	1	Clothes washer	1/2" H&CW; 1-1/2" Standpipe W	20 A circuit - 120/1 - C&P
206	1	Clothes dryer	4" diameter dryer vent	30 A circuit - 208/1 - C&P
207	1	Millwork counter (by GC)		(2) 20 A circuit - 120/1 wall mounted DR
208	1	Reach-in freezer (by Owner)		9.4 A - 120/1 - C&P
209	2	Reach-in refrigerators (by Owner)		8.2 A - 120/1 - C&P
210	4	Millwork storage cabinets (by GC)		
211	4	Millwork counter & wall cabinets (by GC)		(4) 20 A circuit - 120/1 wall mounted DR
212	2	Residential style gas range w/ oven	1/2" G @ 63.1 MBTU	15 A - 120/1 - C&P
213	3	Residential style electric range w/ oven		40 A circuit - 120/208/1
214	2	Exhaust ventilators COLLAR: 752 CFM EXH thru a 8" x 8" collar @ 0.434" SP		100 watts - 120/1 (lights)
215	6	Drop-in sink with faucet	1/2" H&CW; 1-1/2" W	
216	-	spare number		5.8 A - 120/1
217	2	Undercounter warewashers	3/4" HW (110°F min); 5/8" IW to FS	30.5 A - 120/208/1 - C&P
218	1	Millwork counter & wall cabinets (by GC)		(3) 20 A circuit - 120/1 wall mounted DR
219	1	Millwork island demonstration counter (by GC)		(2) 20 A circuit - 120/1 mounted DR
220	1	Drop-in residential style electric range top		30.4 A - 208/1
221	1	Exhaust ventilator COLLAR: 2,024 total CFM EXH thru (2) 9" x 10" collars @ 0.491" SP		0.4 KW - 120/1 (lights)
222	1	Residential style electric wall oven		20 A circuit - 120/208/1
223	1	Millwork counter (by GC)		(2) 20 A circuit - 120/1 wall mounted DR
224	2	Exhaust ventilators COLLAR: 1,238 CFM EXH thru a 11" x 10" collar @ 0.654" SP		0.2 KW - 120/1 (lights)
225A	1	Fire suppression system		J-Box for conn to building alarm system & equipment shutdown
225B	1	Fire suppression system		J-Box for conn to building alarm system & equipment shutdown
225C	1	Fire suppression system		J-Box for conn to building alarm system & equipment shutdown
226 - 230		spare number		

Abbreviations used:

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C&P	Cord & plug provided	FS	Floor sink	MUA	Make-up air
CFM	Cubic feet per minute	G	Gas	PC	Plumbing Contractor
CR	Condensate return	GC	General Contractor	QD	Quick disconnect
CW	Cold water	GI	Grease interceptor	SP	Static pressure (WG)
DFA	Drop from above	HP	Horsepower	SR	Single receptacle
DR	Duplex receptacle	HW	Hot water	SS	Steam supply
EC	Electrical contractor	H&CW	Hot & cold water	W	Waste (direct connection)

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SANFORD HIGH SCHOOL and TECHNICAL CENTER

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NO.	DESCRIPTION	DATE

CONTENT:
FACS CULINARY LAB FOODSERVICE EQUIPMENT PLAN

DRAWN BY: RM
PROJECT NO: 12-067-00
DATE: 2/11/2016
REVISED:
SCALE: 1/4" = 1'-0"

K1.3

Project Phase
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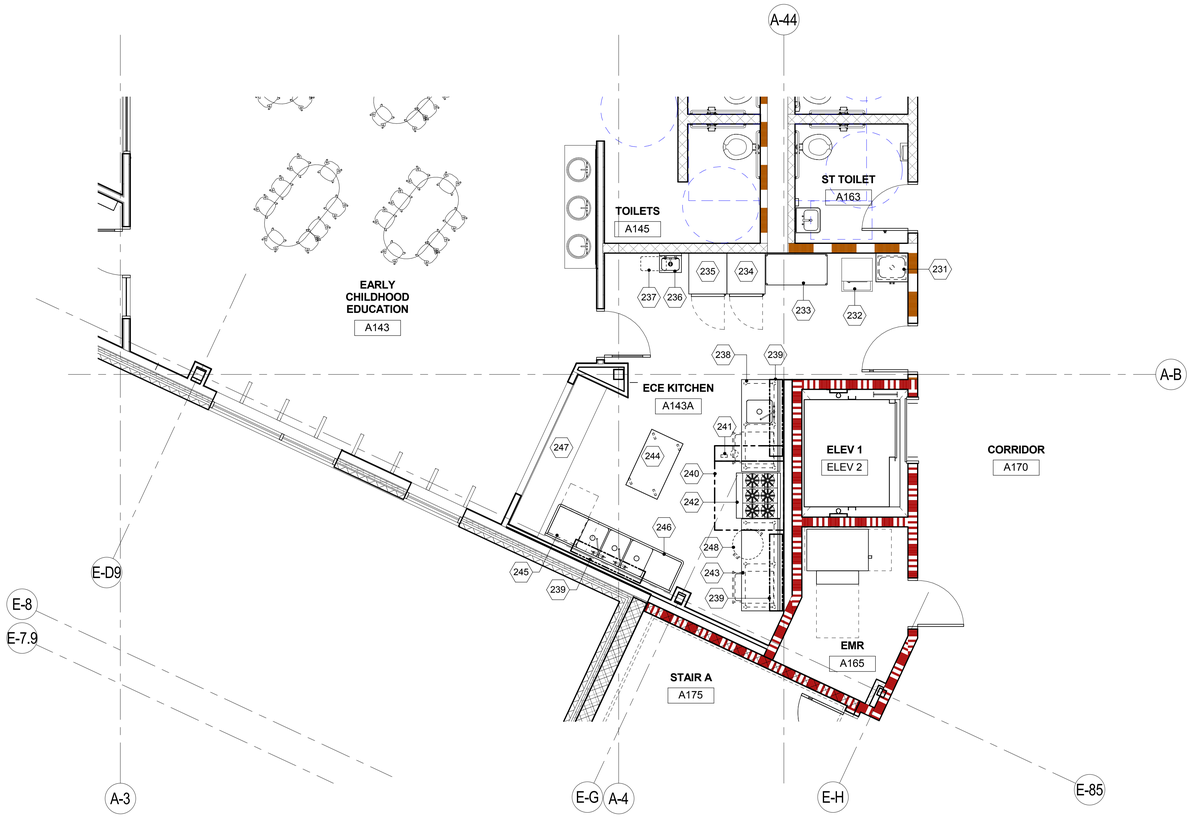
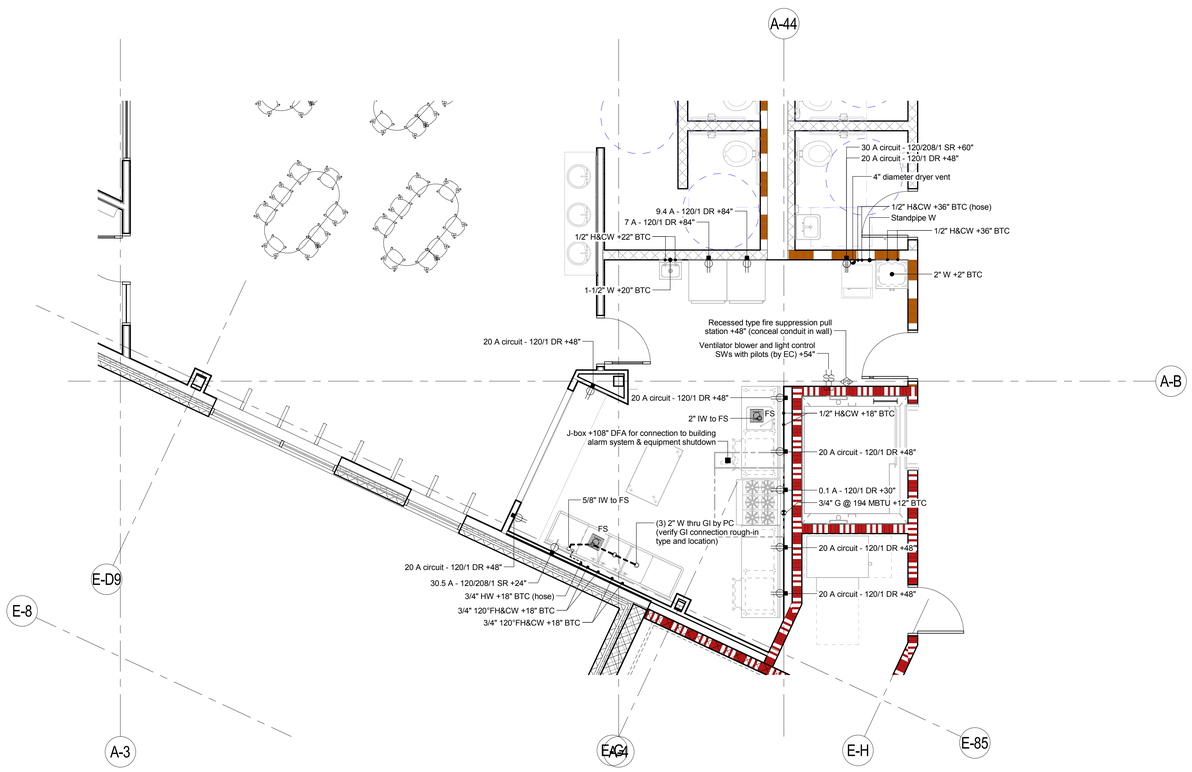


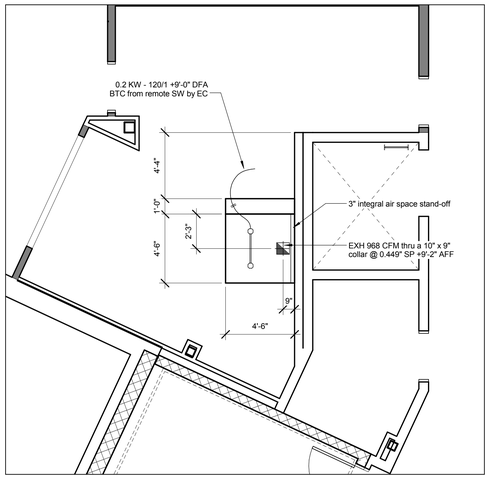
ECE KITCHEN FOODSERVICE EQUIPMENT PLAN
1/4" = 1'-0"



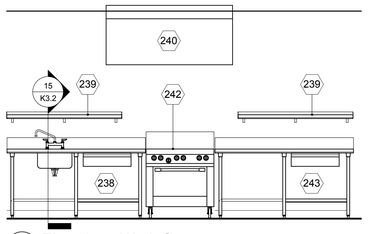
ECE KITCHEN FOODSERVICE EQUIPMENT ROUGH-IN PLAN
1/4" = 1'-0"

ECE KITCHEN SCHEDULE OF FOODSERVICE EQUIPMENT AND CONNECTIONS

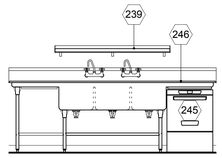
Item	Qty	Description	Plumbing	Electrical
231	1	Mop sink cabinet	1/2" H&CW; 2" W	
232	1	Stacked washer/dryer	1/2" H&CW; 2" W 4" diameter dryer vent	20 A circuit - 120/1 - C&P; 30 A circuit - 120/208/1 - C&P
233	1	Storage shelf		(2) 20 A circuit - 120/1 wall mounted DR
234	1	Reach-in freezer		9.4 A - 120/1 - C&P
235	1	Reach-in refrigerator		7 A - 120/1 - C&P
236	1	Hand sink	1/2" H&CW; 1-1/2 W	
237	1	Waste bin (by Owner)		6.7 A - 120/1 - C&P
238	1	Work counter with sink	1/2" H&CW; 2" IW to FS	(2) 20 A circuit - 120/1 wall mounted DR
239	3	Wall shelves		
240	1	Exhaust ventilator COLLAR: 968 CFM thru a 10" x 9" collar @ 0.449" SP		0.2 KW - 120/1 (lights)
241	1	Fire suppression system		J-Box for conn to building alarm system & equipment shutdown
242	1	Six-burner range with oven	3/4" G @ 194 MBTU; QD	0.1 A - 120/1 - C&P
243	1	Work counter		(2) 20 A circuit - 120/1 wall mounted DR
244	1	Mobile work table	1/2" H&CW; 1-1/2" W	
245	1	Undercounter warewasher	3/4" HW (110°F min); 5/8" IW to FS	30.5 A - 120/208/1 - C&P
246	1	Three-compartment sink	3/4" 120°FH&CW; (3) 2" W thru GI by PC	
247	1	Counter (by GC)		(2) 20 A circuit - 120/1 wall mounted DR
248	1	Waste barrel (by Owner)		



1 K1.4 Detail - Exhaust Ventilator
1/4" = 1'-0"



2 K1.4 Elevation - Work Counters
3/8" = 1'-0"



3 K1.4 Section - Three Compartment Sink 2
3/8" = 1'-0"

Abbreviations used:

A	Amperes	EXH	Exhaust	IW	Indirect waste
AFF	Above finished floor	FD	Floor drain	K/EC	Kitchen Equip. Contractor
BFF	Below finished floor	FFD	Funnel floor drain	KW	Kilowatt
BTC	Branch to connection	FHW	Fahrenheit hot water	MBTU	BTU per hour/1000
C&P	Cord & plug provided	FS	Floor sink	MUA	Make-up air
CFM	Cubic feet per minute	G	Gas	PC	Plumbing Contractor
CR	Condensate return	GC	General Contractor	QD	Quick disconnect
CW	Cold water	GI	Grease interceptor	SP	Static pressure (WG)
DFA	Drop from above	HP	Horsepower	SR	Single receptacle
DR	Duplex receptacle	HW	Hot water	SS	Steam supply
EC	Electrical contractor	H&CW	Hot & cold water	W	Waste (direct connection)

Notes: Following apply to all Foodservice Equipment Drawings.
Connections, stub-outs and dimensions shown are to be used for estimating engineering requirements only. No architectural or engineering service is intended or assumed.

The Kitchen Equipment Contractor shall provide accurate 1/4"=1'-0" stub-outs plans showing exact sizes and locations of all service stubs through walls and/or floors. Services of fixtures shall shall come out of walls whenever possible allowing clearance for traps, valves, switches, and the like.

Traps, drainlines, grease interceptors, shut-off valves and connecting piping shall be provided and installed by the Plumbing Sub-Contractor.

Conduit, junction boxes, outlets, disconnects, and connecting wiring shall be provided and installed by the Electrical Sub-Contractor. Interwiring of refrigeration components and remote controls such as found on a garbage disposer shall be installed by the Electrical Sub-Contractor.

Blowers, ductwork and duct connections shall be provided and installed by the Heating and Ventilation Sub-Contractor. Controls for such systems shall be provided and installed by the specified sub-contractor.

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SANFORD HIGH SCHOOL and TECHNICAL CENTER

SANFORD, ME 04073

NO.	DESCRIPTION	DATE

CONTENT:
ECE KITCHEN FOODSERVICE EQUIPMENT PLAN

DRAWN BY:	RM
PROJECT NO:	12-067-00
DATE:	2/11/2016
REVISED:	
SCALE:	As indicated

K1.4

Project Phase
BID DOCUMENTS

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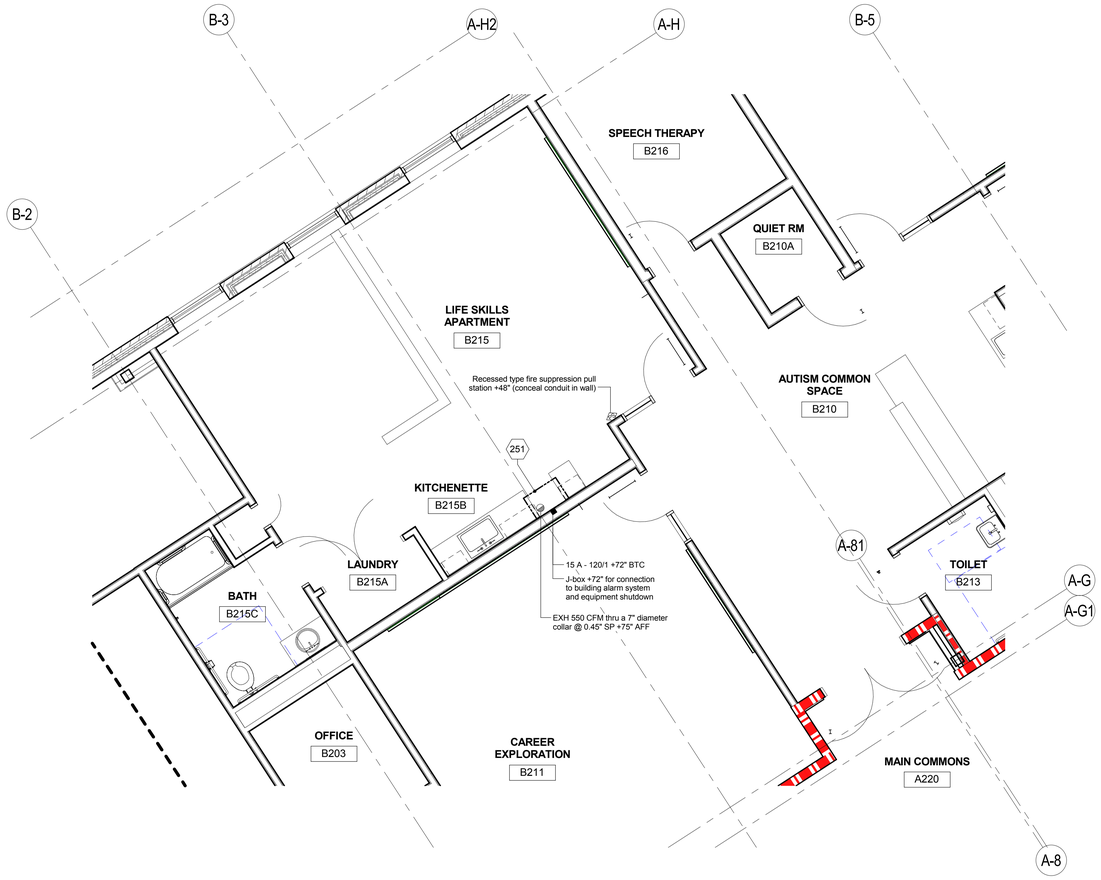
LIFE SKILLS LAB SCHEDULE OF FOODSERVICE EQUIPMENT AND CONNECTIONS				
Item	Qty	Description	Plumbing	Electrical
251	1	Range hood with fire suppression COLLAR: 550 CFM EXH thru a 7" diameter collar @ 0.45" SP		15 A - 120/1; J-Box for conn to building alarm system & equipment shutdown



LIFE SKILLS LAB FOODSERVICE EQUIPMENT PLAN
1/4" = 1'-0"

Abbreviations used:					
A	Amperes	EXH	Exhaust	IW	Indirect waste
AFF	Above finished floor	FD	Floor drain	KEC	Kitchen Equip. Contractor
BFF	Below finished floor	FFD	Funnel floor drain	KW	Kilowatt
BTC	Branch to connection	FHW	Fahrenheit hot water	MBTU	BTU per hour/1000
C&P	Cord & plug provided	FS	Floor sink	MUA	Make-up air
CFM	Cubic feet per minute	G	Gas	PC	Plumbing Contractor
CR	Condensate return	GC	General Contractor	QD	Quick disconnect
CW	Cold water	GI	Grease interceptor	SP	Static pressure (WG)
DFA	Drop from above	HP	Horsepower	SR	Single receptacle
DR	Duplex receptacle	HW	Hot water	SS	Steam supply
EC	Electrical contractor	H&CW	Hot & cold water	W	Waste (direct connection)

Notes: Following apply to all Foodservice Equipment Drawings.
Connections, stub-outs and dimensions shown are to be used for estimating engineering requirements only. No architectural or engineering service is intended or assumed.

The Kitchen Equipment Contractor shall provide accurate 1/4"=1'-0" stub-outs plans showing exact sizes and locations of all service stubs through walls and/or floors. Services of fixtures shall shall come out of walls whenever possible allowing clearance for traps, valves, switches, and the like.

Traps, drainlines, grease interceptors, shut-off valves and connecting piping shall be provided and installed by the Plumbing Sub-Contractor.

Conduit, junction boxes, outlets, disconnects, and connecting wiring shall be provided and installed by the Electrical Sub-Contractor. Interwiring of refrigeration components and remote controls such as found on a garbage disposer shall be installed by the Electrical Sub-Contractor.

Blowers, ductwork and duct connections shall be provided and installed by the Heating and Ventilation Sub-Contractor. Controls for such systems shall be provided and installed by the specified sub-contractor.

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SANFORD HIGH SCHOOL and TECHNICAL CENTER

SANFORD, ME 04073

NO.	DESCRIPTION	DATE

N

CONTENT:
LIFE SKILLS LAB FOODSERVICE EQUIPMENT PLAN

DRAWN BY:	RM
PROJECT NO:	12-067-00
DATE:	2/11/2016
REVISED:	
SCALE:	1/4" = 1'-0"

K1.5

Project Phase
BID DOCUMENTS

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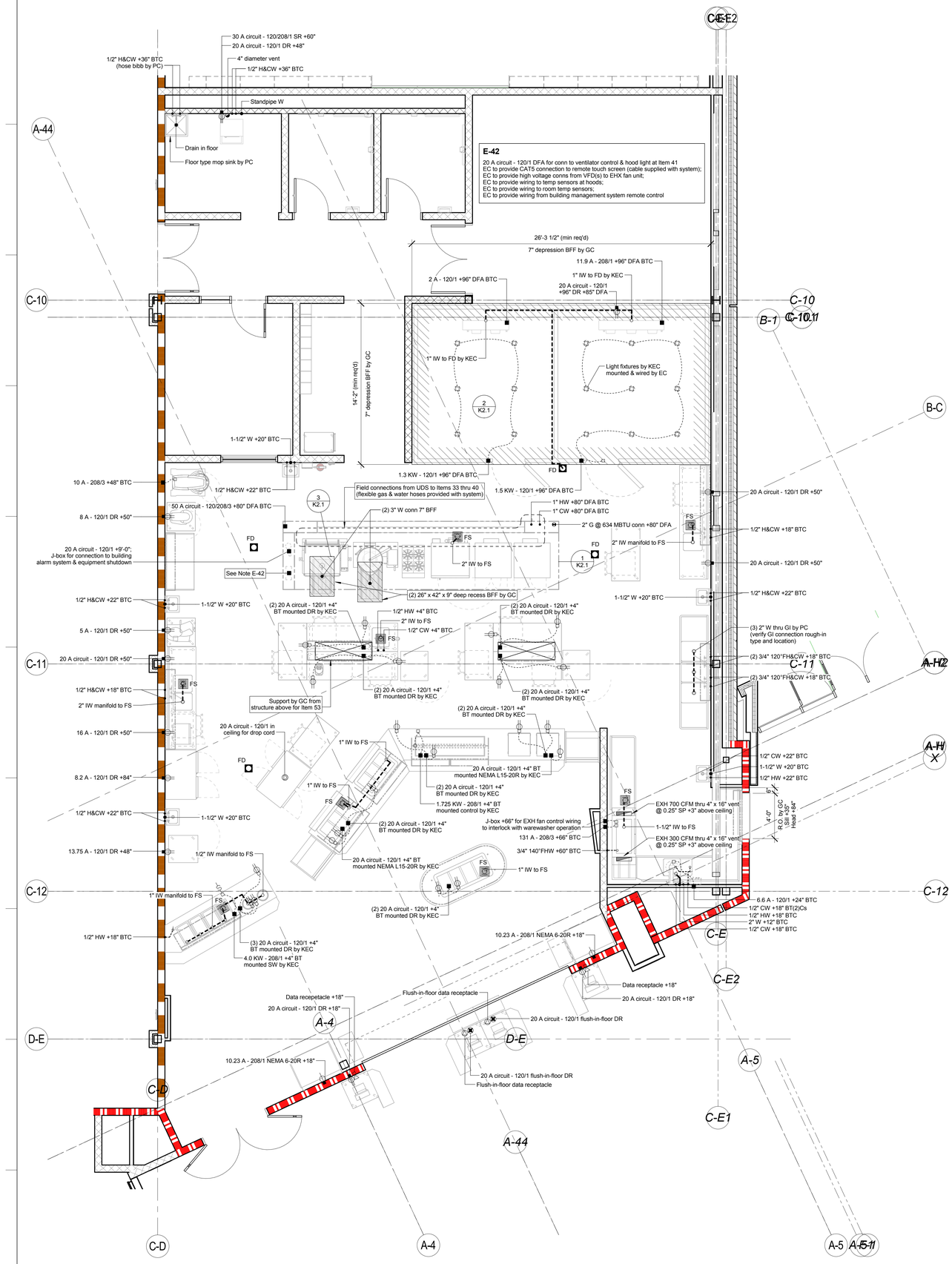
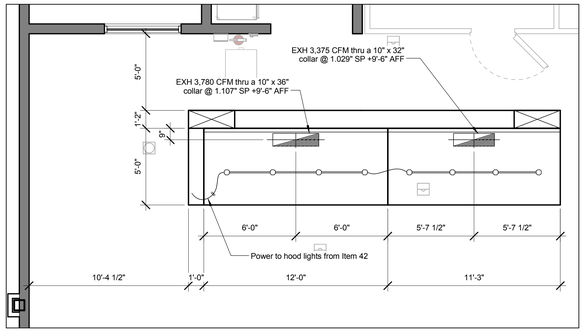
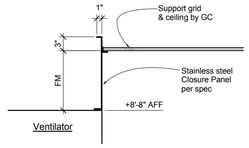


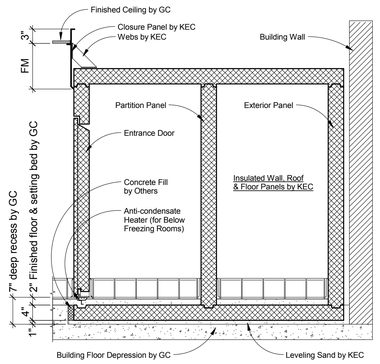
CAFETERIA KITCHEN FOODSERVICE EQUIPMENT ROUGH-IN PLAN
1/4" = 1'-0"



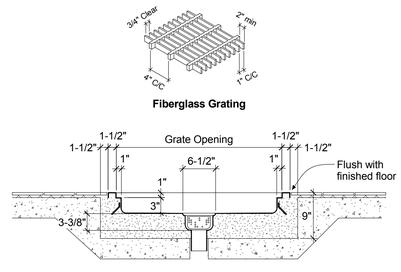
1 K2.1 Detail - Exhaust Ventilator
1/4" = 1'-0"



1.1 K2.1 Detail Ceiling Closure Panel
NTS

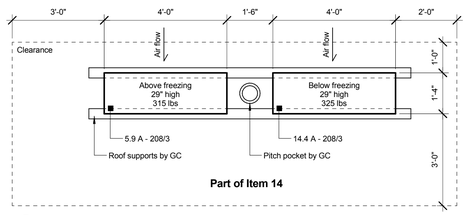


2 K2.1 Section - Refrigerated Rooms
1" = 1'-0"



3 K2.1 Section - Floor Trough & Grate
1" = 1'-0"

Mount on roof
per Sheet A1.31



4 K2.1 Detail - Condensing Units
1/2" = 1'-0"

Abbreviations used:					
A	Amperes	EXH	Exhaust	IW	Indirect waste
AFF	Above finished floor	FD	Floor drain	KEC	Kitchen Equip. Contractor
BFF	Below finished floor	FFD	Funnel floor drain	KW	Kilowatt
BTC	Branch to connection	FHW	Fahrenheit hot water	MBTU	BTU per hour/1000
C&P	Cord & plug provided	FS	Floor sink	MU/A	Make-up air
CFM	Cubic feet per minute	G	Gas	PC	Plumbing Contractor
CR	Condensate return	GC	General Contractor	QD	Quick disconnect
CW	Cold water	GI	Grease interceptor	SP	Static pressure (WG)
DFA	Drop from above	HP	Horsepower	SR	Single receptacle
DR	Duplex receptacle	HW	Hot water	SS	Steam supply
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SANFORD, ME 04073

NO.	DESCRIPTION	DATE

CONTENT:
CAFETERIA KITCHEN FOODSERVICE EQUIPMENT ROUGH-IN PLAN

DRAWN BY:	RM
PROJECT NO:	12-067-00
DATE:	2/11/2016
REVISED:	
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K2.1

Project Phase
BID DOCUMENTS

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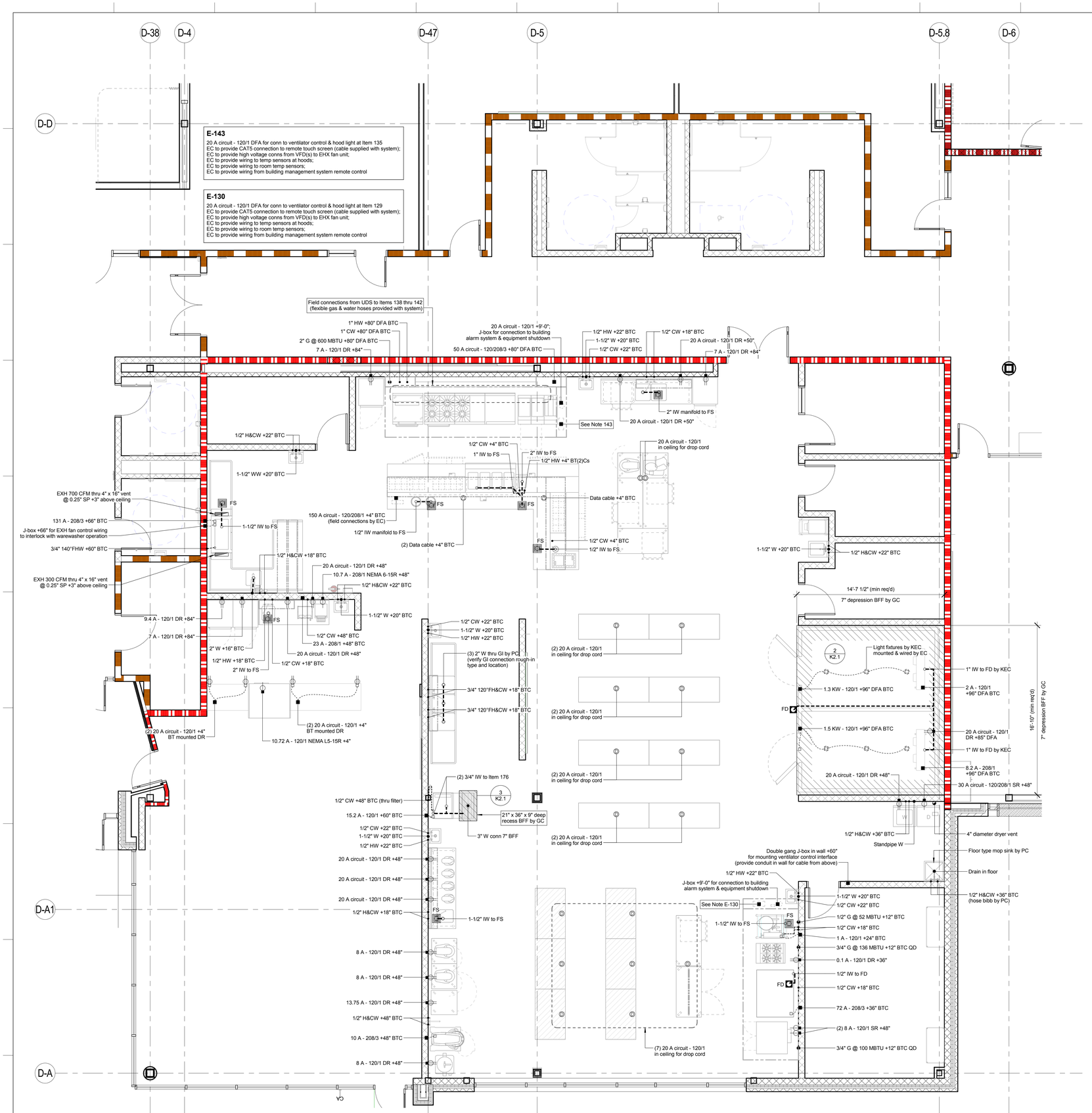
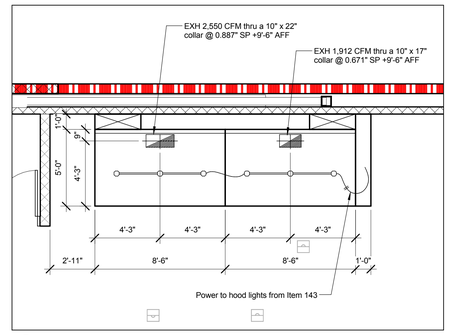
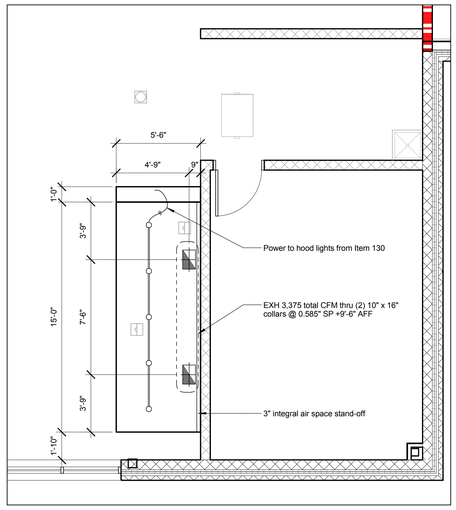


CULINARY KITCHEN FOODSERVICE EQUIPMENT ROUGH-IN PLAN
1/4" = 1'-0"

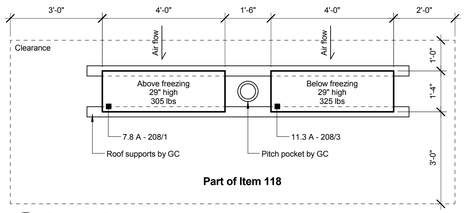


5 K2.2 Detail - Exhaust Ventilator
1/4" = 1'-0"



6 K2.2 Detail - Exhaust Ventilator
1/4" = 1'-0"

Mount on roof
per Sheet A1.36



7 K2.2 Detail - Condensing Units
1/2" = 1'-0"

Abbreviations used:

A	Amperes	EXH	Exhaust	IW	Indirect waste
AFF	Above finished floor	FD	Floor drain	KEC	Kitchen Equip. Contractor
BFF	Below finished floor	FFD	Funnel floor drain	KW	Kilowatt
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C&P	Cord & plug provided	FS	Floor sink	MUA	Make-up air
CFM	Cubic feet per minute	G	Gas	PC	Plumbing Contractor
CR	Condensate return	GC	General Contractor	QD	Quick disconnect
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DR	Duplex receptacle	HW	Hot water	SS	Steam supply
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SANFORD, ME 04073

NO.	DESCRIPTION	DATE

CONTENT:
CULINARY KITCHEN FOODSERVICE EQUIPMENT ROUGH-IN PLAN

DRAWN BY:	RM
PROJECT NO:	12-067-00
DATE:	2/11/2016
REVISED:	
SCALE:	As indicated

K2.2

Project Phase
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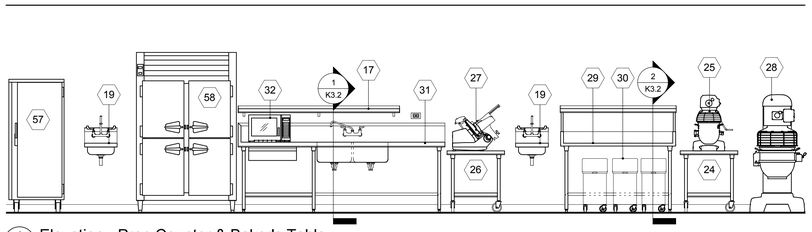
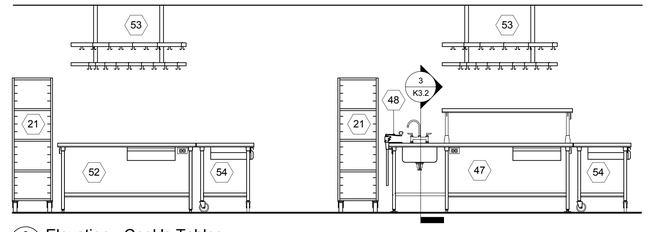
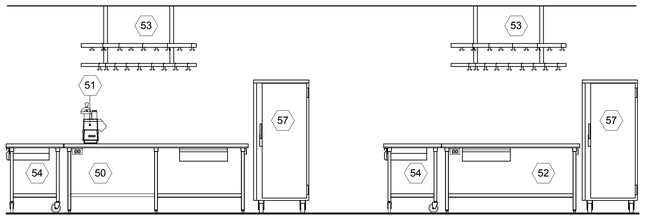


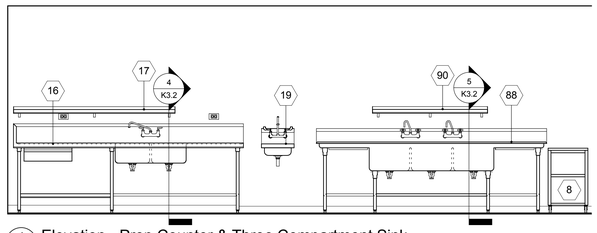
1 K3.1 Elevation - Prep Counter & Baker's Table
3/8" = 1'-0"



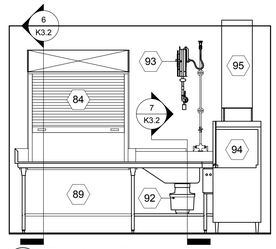
2 K3.1 Elevation - Cook's Tables
3/8" = 1'-0"



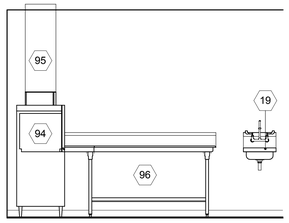
3 K3.1 Elevations - Work Tables
3/8" = 1'-0"



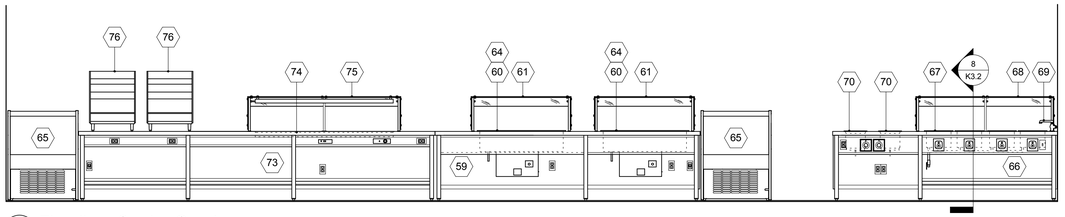
4 K3.1 Elevation - Prep Counter & Three Compartment Sink
3/8" = 1'-0"



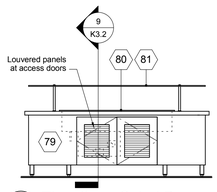
5 K3.1 Elevation - Soiled Ware Table
3/8" = 1'-0"



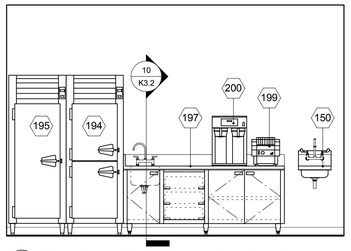
6 K3.1 Elevation - Clean Ware Table
3/8" = 1'-0"



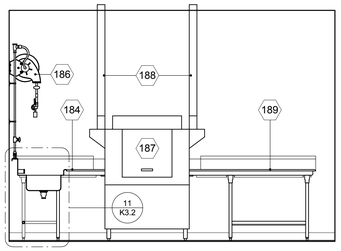
7 K3.1 Elevation - Serving Counters
3/8" = 1'-0"



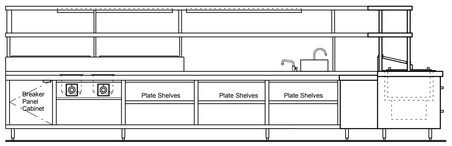
8 K3.1 Elevation - Salad Bar
3/8" = 1'-0"



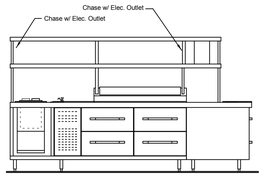
9 K3.1 Elevation - Dining Area Work Counter
3/8" = 1'-0"



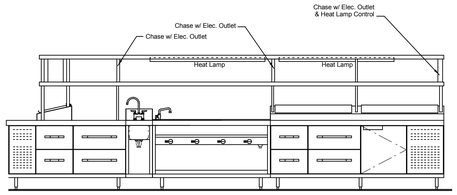
10 K3.1 Elevation - Ware Washing
3/8" = 1'-0"



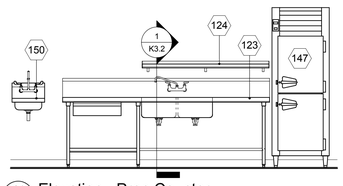
11 K3.1 Elevation - Chef's Counter Assembly
3/8" = 1'-0"



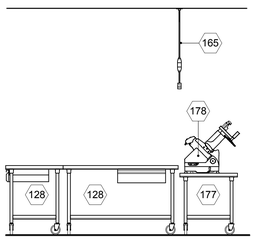
12 K3.1 Elevation - Chef's Counter Assembly 2
3/8" = 1'-0"



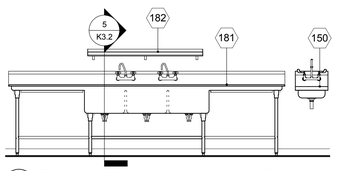
13 K3.1 Elevation - Chef's Counter Assembly 3
3/8" = 1'-0"



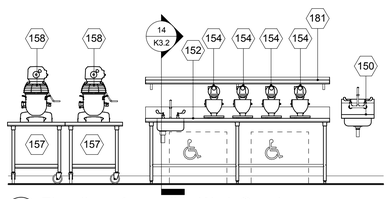
14 K3.1 Elevation - Prep Counter
3/8" = 1'-0"



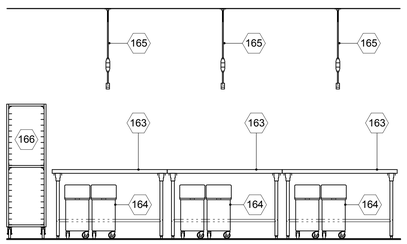
15 K3.1 Elevation - Mobile Work Tables
3/8" = 1'-0"



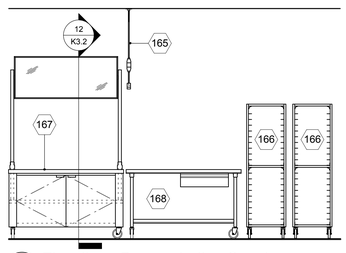
16 K3.1 Elevation - Three Compartment Sink
3/8" = 1'-0"



17 K3.1 Elevation - Accessible Work Counter
3/8" = 1'-0"



18 K3.1 Elevation - Maple Top Work Tables
3/8" = 1'-0"



19 K3.1 Elevation - Demonstration Counter
3/8" = 1'-0"

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Sanford School Department and
State of Maine Department of
Education

SANFORD HIGH SCHOOL and TECHNICAL CENTER

SANFORD, ME 04073

NO.	DESCRIPTION	DATE

N

FOR ADDITIONAL INFORMATION, REFER TO PROJECT MANUAL.

CONTENT:
FOODSERVICE EQUIPMENT ELEVATIONS

DRAWN BY:	RM
PROJECT NO:	12-067-00
DATE:	2/11/2016
REVISED:	
SCALE:	3/8" = 1'-0"

K3.1

Project Phase
BID DOCUMENTS

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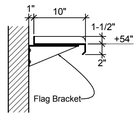
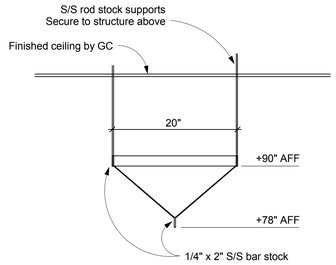
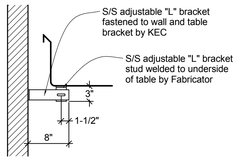


Section - Wall Shelf
1" = 1'-0"



Section - Ceiling Mounted Utensil Rack
1" = 1'-0"



Section - Wall Bracket
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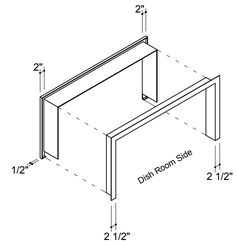
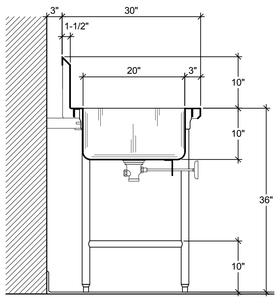
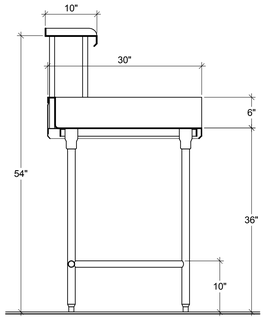


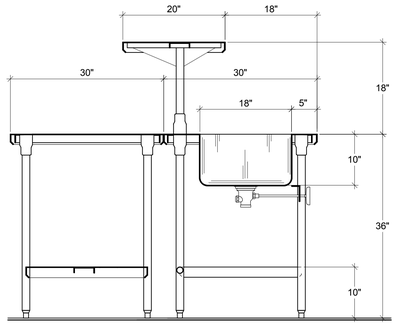
Detail - Pass Window Frame
NTS



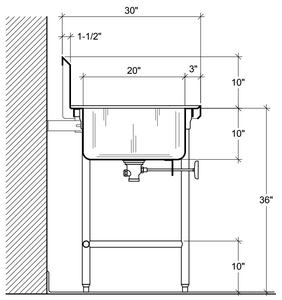
1 K3.2 Section - Prep Counter @ Sink
1" = 1'-0"



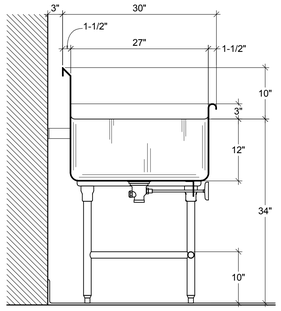
2 K3.2 Section - Baker's Table
1" = 1'-0"



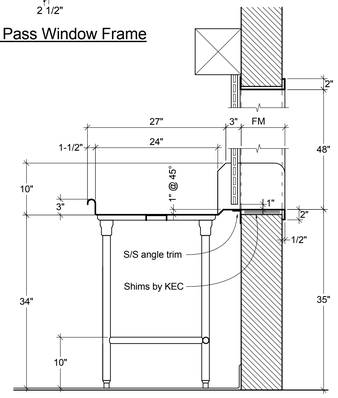
3 K3.2 Section - Cook's Table with Sink
1" = 1'-0"



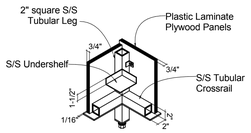
4 K3.2 Section - Prep Counter @ Sink
1" = 1'-0"



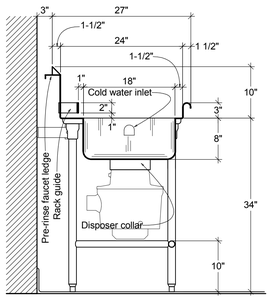
5 K3.2 Section - Three Compartment Sink
1" = 1'-0"



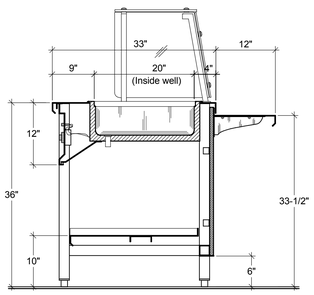
6 K3.2 Section - Soiled Ware Table @ Pass Window
1" = 1'-0"



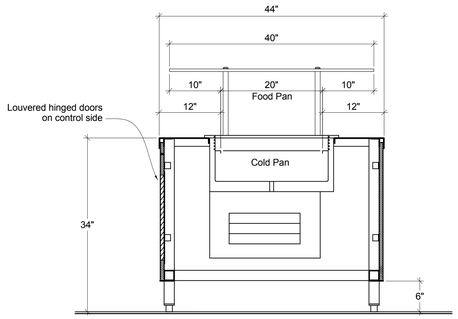
Detail - Typical Serving Counter Corner
NTS



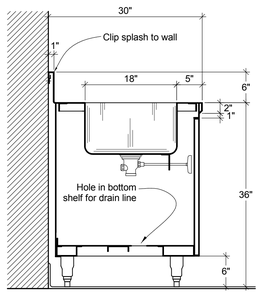
7 K3.2 Section - Soiled Ware Table @ Sink
1" = 1'-0"



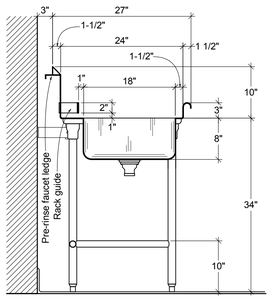
8 K3.2 Section - Serving Counter @ Hot Well
1" = 1'-0"



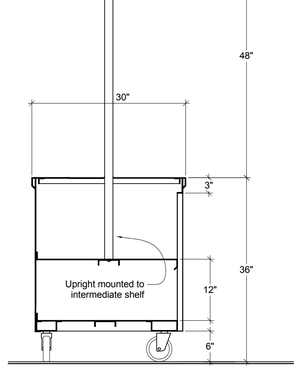
9 K3.2 Section - Salad Bar
1" = 1'-0"



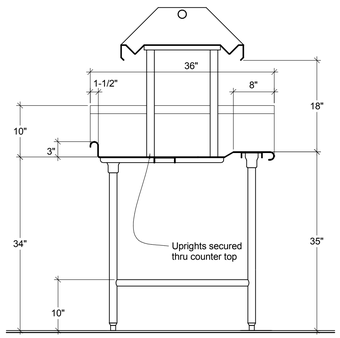
10 K3.2 Section - Work Counter @ Sink
1" = 1'-0"



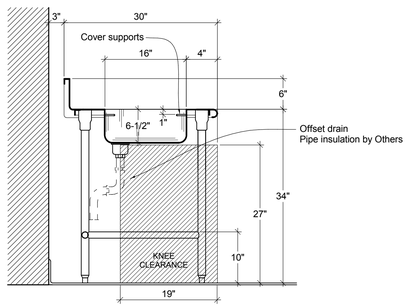
11 K3.2 Section - Soiled Ware Table @ Sink
1" = 1'-0"



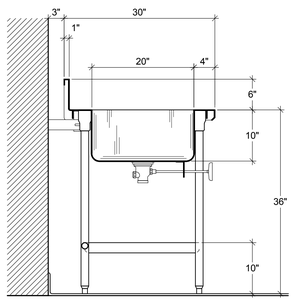
12 K3.2 Section - Demonstration Counter
1" = 1'-0"



13 K3.2 Section - Soiled Ware Landing Table
1" = 1'-0"



14 K3.2 Section - Accessible Work Counter @ Sink
1" = 1'-0"



15 K3.2 Section - Work Counter @ Sink
1" = 1'-0"

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Sanford School Department and State of Maine Department of Education

SANFORD HIGH SCHOOL and TECHNICAL CENTER

SANFORD, ME 04073

NO.	DESCRIPTION	DATE

CONTENT:
FOODSERVICE EQUIPMENT DETAILS

DRAWN BY:	RM
PROJECT NO:	12-067-00
DATE:	2/11/2016
REVISED:	
SCALE:	1" = 1'-0"

K3.2

Project Phase
BID DOCUMENTS

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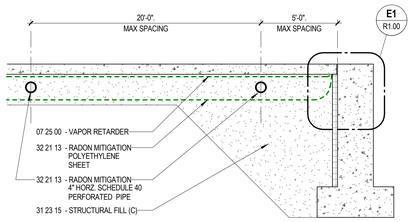
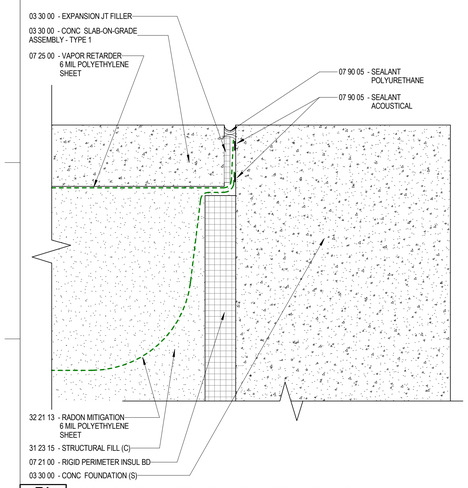
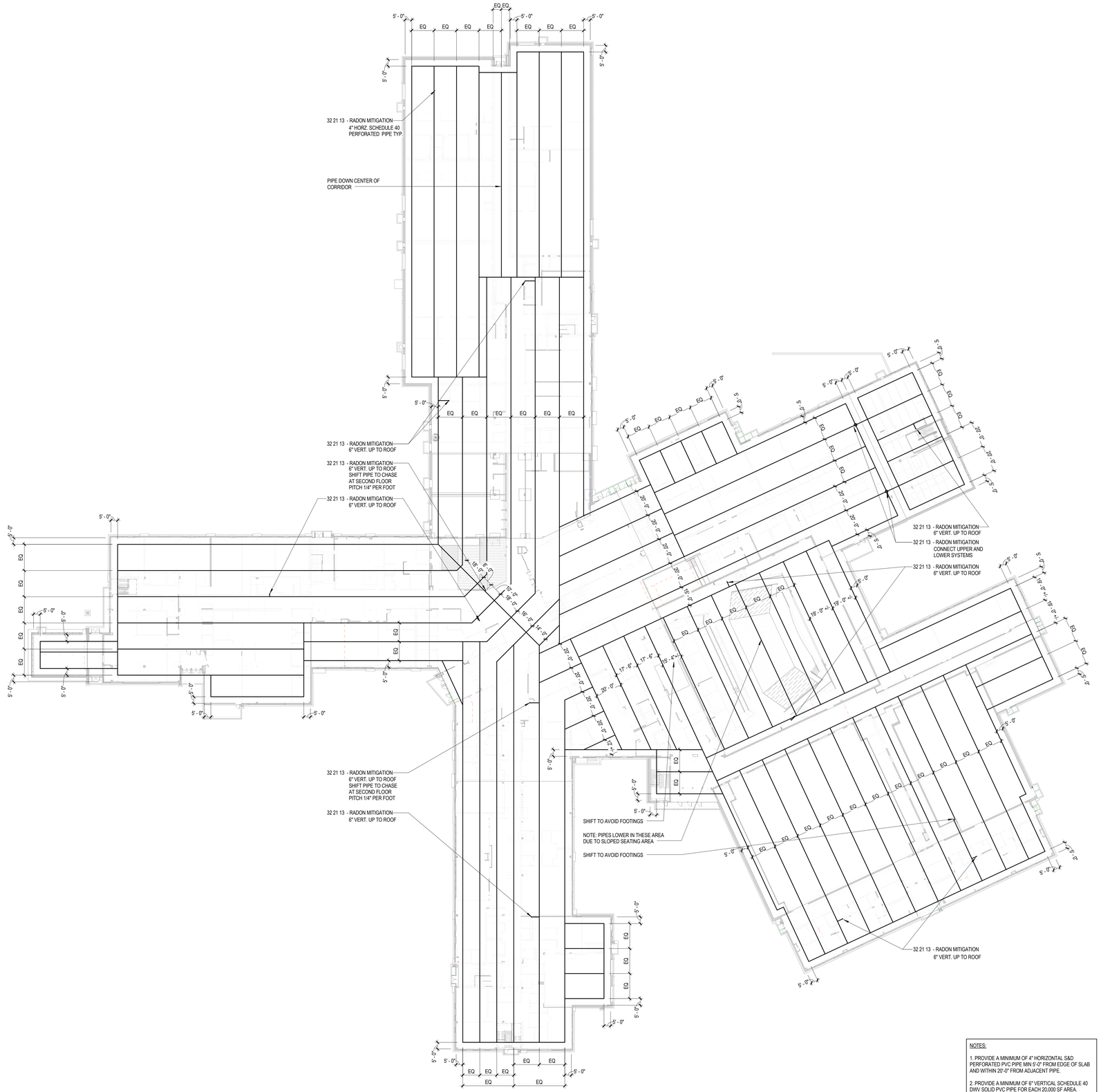
NOTE:
BOTH MEMBRANES NEED TO BE TERMINATED BELOW THE TOP OF THE WALL TO ALLOW POLYURETHANE CAULK TO SPAN THE JOINT BETWEEN THE TOP EDGE OF THE FLOOR AND THE WALL. THE MEMBRANES ARE TO BE ATTACHED TO THE WALL WITH ACOUSTICAL CAULK. THE LOWER MEMBRANE WILL BE TERMINATED JUST ABOVE THE WALL INSULATION AND THE UPPER MEMBRANE WILL BE TERMINATED JUST BELOW THE FLOOR (SEE RADON SEALING SPECIFICATIONS FOR OTHER SEALING REQUIREMENTS.)



B1 R1.00 TYPICAL SUB-SLAB RADON PIPE AND MEMBRANE DETAIL
1/2" = 1'-0"



E1 R1.00 TYPICAL SUB-SLAB RADON PIPE AND MEMBRANE DETAIL Copy 1
3" = 1'-0"



J4 R1.00 LEVEL 1 - 1/16" - RADON PIPING
1/32" = 1'-0"

NOTES:

1. PROVIDE A MINIMUM OF 4" HORIZONTAL S&D PERFORATED PVC PIPE MIN 5'-0" FROM EDGE OF SLAB AND WITHIN 20'-0" FROM ADJACENT PIPE.

2. PROVIDE A MINIMUM OF 6" VERTICAL SCHEDULE 40 DWV SOLID PVC PIPE FOR EACH 20,000 SF AREA. PLACE AT LOCATIONS SHOWN IN PLAN ABOVE.

3. TERMINATE VERTICAL PIPES MINIMUM 2'-0" ABOVE ROOF SURFACE. SEE ROOF PLAN FOR LOCATIONS.

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SANFORD HIGH SCHOOL and TECHNICAL CENTER

SANFORD, ME 04073

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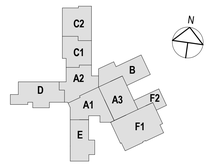

CONTENT:
RADON PIPING PLAN & DETAILS

DRAWN BY:	JPD3
PROJECT NO:	12-067-00
DATE:	02/11/2016
REVISED:	
SCALE:	As indicated

R1.00

Project Phase
BID DOCUMENTS

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